

**DATA PACKAGE  
VOLATILE ORGANICS**

**PROJECT NAME : US EPA RIVERSIDE INDUSTRIAL PARK SUPERFUND SITE**

**WOODARD & CURRAN  
800 Westchester Avenue, Suite N507  
Suite N507  
Rye Brook, NY - 10573  
Phone No: 800-807-4080**

**ORDER ID : Q1669  
ATTENTION : Bryan Maurer**



**Laboratory Certification ID # 20012**



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**Order ID :** Q1669

**Project ID :** US EPA Riverside Industrial Park Superfund Site

**Client :** Woodard & Curran

### Lab Sample Number

Q1669-01  
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Q1669-04  
Q1669-05  
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Q1669-09

### Client Sample Number

IA-B9-3-3262025  
IA-B9-2-3262025  
IA-B9-1-3262025  
AA-1-3262025  
SSSG-B16-3-3262025  
SSSG-DUP-1-3262025  
SSSG-B16-1-3262025  
SSSG-B16-2-3262025  
AA-2-3262025

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

Signature :

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 2:47 pm, Jun 16, 2025*

Date: 6/13/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012





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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------|-------------------------|---------------------------------------------------|------------------------------------|--------------------------------------------|---------------------------|----------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------|----------------|----------------------------------|-------------|--------------|---|--------------------|----------|--|--|
| Client Contact Information                                                                                                                                                                                                |                    |                          |                         |                                                   |                                    | Bottle Order ID : <b>B2502051</b>          |                           |                                        |                                   | Courier :                                                                                 |                |                                  |             | 1 of 13 COCs |   |                    |          |  |  |
| Client ID : <b>WOOD06</b>                                                                                                                                                                                                 |                    |                          |                         | Project ID : <b>NYCHHC Environmental Services</b> |                                    |                                            |                           | Sampler Name(s) : <i>Alphon Hefner</i> |                                   |                                                                                           |                | Analysis                         |             | Matrix       |   |                    |          |  |  |
| Customer Name : <b>Woodard &amp; Curran</b><br><br>Address : <b>800 Westchester Avenue, Suite N507 Suite N507</b><br><br>City : <b>Rye Brook</b><br><br>State : <b>NY</b><br><br>Zip Code : <b>10573</b><br><br>Country : |                    |                          |                         |                                                   |                                    | Project Manager : <b>Stephanie rogacki</b> |                           |                                        |                                   | AIR ANALYSIS<br>CHAIN-OF-CUSTODY<br><br>Batch Certified                                   |                |                                  |             |              |   |                    |          |  |  |
|                                                                                                                                                                                                                           |                    |                          |                         |                                                   |                                    | Phone Number : <b>800-807-4080</b>         |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
|                                                                                                                                                                                                                           |                    |                          |                         |                                                   |                                    | Fax Number : <b>914-448-0147</b>           |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
|                                                                                                                                                                                                                           |                    |                          |                         |                                                   |                                    | Site Details:                              |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
|                                                                                                                                                                                                                           |                    |                          |                         |                                                   |                                    | Analysis Turnaround Time                   |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
|                                                                                                                                                                                                                           |                    |                          |                         |                                                   |                                    | Standard : <b>10 business days</b> OR      |                           |                                        |                                   | Data Package Type :                                                                       |                |                                  |             |              |   |                    |          |  |  |
|                                                                                                                                                                                                                           |                    |                          |                         |                                                   |                                    | Rush (Specify): <b>Days</b>                |                           |                                        |                                   | EDD Type :                                                                                |                |                                  |             |              |   |                    |          |  |  |
| Sample Identification                                                                                                                                                                                                     | Sample Date(s)     | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start)                 | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start)                 | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab)      | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID                                                                              | Can ID         | Flow Controller Readout (ml/min) | Can Cert ID | TO-15        |   | Indoor/Ambient Air | Soil Gas |  |  |
| 1A-04-3-<br>3/26/25                                                                                                                                                                                                       | 3/26/25<br>3/27/25 | 1158                     | 0909                    | -30                                               | -6                                 | 55                                         | 55                        | -30                                    | -7.5                              | 1034<br>10637<br>10508                                                                    | 10508<br>10588 | 6 L                              | 100         | VL041966-D   | X | X                  |          |  |  |
| Temperature (Fahrenheit)                                                                                                                                                                                                  |                    |                          |                         |                                                   |                                    |                                            |                           |                                        |                                   | 10508 10311                                                                               |                |                                  |             |              |   |                    |          |  |  |
|                                                                                                                                                                                                                           |                    | Ambient                  | Maximum                 | Minimum                                           |                                    |                                            |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
| Start                                                                                                                                                                                                                     |                    | 45                       | 54                      | 38                                                |                                    |                                            |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
| Stop                                                                                                                                                                                                                      |                    | 39                       |                         |                                                   |                                    |                                            |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
| Pressure (Inches of Hg)                                                                                                                                                                                                   |                    |                          |                         |                                                   |                                    |                                            |                           |                                        |                                   | ** Submittal of this COC indicates approval of the analysis based on existing conditions. |                |                                  |             |              |   |                    |          |  |  |
|                                                                                                                                                                                                                           |                    | Ambient                  | Maximum                 | Minimum                                           |                                    |                                            |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
| Start                                                                                                                                                                                                                     |                    | 30.05                    |                         |                                                   |                                    |                                            |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
| Stop                                                                                                                                                                                                                      |                    | 30.26                    |                         |                                                   |                                    |                                            |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
| Please follow the instructions on the back of this COC.                                                                                                                                                                   |                    |                          |                         |                                                   |                                    |                                            |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
| Special Instructions/QC Requirements & Comments :                                                                                                                                                                         |                    |                          |                         |                                                   |                                    |                                            |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
| Suspected Contamination: High Medium Low PID Readings: 0.0 ppm                                                                                                                                                            |                    |                          |                         |                                                   |                                    |                                            |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
| Sampling site (State): New Jersey                                                                                                                                                                                         |                    |                          |                         |                                                   |                                    |                                            |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
| Quick Connector required : NO                                                                                                                                                                                             |                    |                          |                         |                                                   |                                    |                                            |                           |                                        |                                   |                                                                                           |                |                                  |             |              |   |                    |          |  |  |
| Canisters Shipped by: <i>Sally</i>                                                                                                                                                                                        |                    |                          |                         | Date/Time: 3/24/25                                |                                    |                                            |                           | Canisters Received by: <i>CP</i>       |                                   |                                                                                           |                | Date/Time: 3/27/25 11:25         |             |              |   |                    |          |  |  |
| Samples Relinquished by: <i>Walter</i>                                                                                                                                                                                    |                    |                          |                         | Date/Time: 3/27/25 11:25                          |                                    |                                            |                           | Received by:                           |                                   |                                                                                           |                | Date/Time:                       |             |              |   |                    |          |  |  |
| Relinquished by:                                                                                                                                                                                                          |                    |                          |                         | Date/Time:                                        |                                    |                                            |                           | Received by:                           |                                   |                                                                                           |                | Date/Time:                       |             |              |   |                    |          |  |  |

|                                                                                                                                                                                                                           |                    |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------|-------------------------|--------------------------------------------|------------------------------------|----------------------------|---------------------------|------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------|----------------------------------|-------------|------------|----------------------|--|--------------------|----------|
| Client Contact Information                                                                                                                                                                                                |                    |                          |                         | Bottle Order ID : <b>B2502051</b>          |                                    |                            |                           | Courier :                                                              |                                   |                                                                                                                                                              |                | 2 of 13 COCs                    |                                  |             |            |                      |  |                    |          |
| Client ID : <b>WOOD06</b> Project ID : <b>NYCHHC Environmental Services</b>                                                                                                                                               |                    |                          |                         | Sampler Name(s) : <i>Clayton Helmer</i>    |                                    |                            |                           | Analysis                                                               |                                   |                                                                                                                                                              |                | Matrix                          |                                  |             |            |                      |  |                    |          |
| Customer Name : <b>Woodard &amp; Curran</b><br><br>Address : <b>800 Westchester Avenue, Suite N507 Suite N507</b><br><br>City : <b>Rye Brook</b><br><br>State : <b>NY</b><br><br>Zip Code : <b>10573</b><br><br>Country : |                    |                          |                         | Project Manager : <b>Stephanie rogacki</b> |                                    |                            |                           | <b>AIR ANALYSIS<br/>CHAIN-OF-CUSTODY</b><br><br><b>Batch Certified</b> |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
|                                                                                                                                                                                                                           |                    |                          |                         | Phone Number : <b>800-807-4080</b>         |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
|                                                                                                                                                                                                                           |                    |                          |                         | Fax Number : <b>914-448-0147</b>           |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
|                                                                                                                                                                                                                           |                    |                          |                         | Site Details:                              |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
| Analysis Turnaround Time                                                                                                                                                                                                  |                    |                          |                         | Data Package Type :                        |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
| Standard : <b>10 business days OR</b>                                                                                                                                                                                     |                    |                          |                         | 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 |
| 1A-B4-3-3/26/25                                                                                                                                                                                                           | 3/26/25<br>3/27/25 | 1136                     | 0932                    | -28                                        | -6                                 | 55                         | 55                        | -30                                                                    | -5.9                              | 10785<br>10567                                                                                                                                               | 10283<br>10285 |                                 | 6 L                              | 4.16        | VL042078-D | X                    |  | X                  |          |
| Temperature (Fahrenheit)                                                                                                                                                                                                  |                    |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   | GC/MS Analyst Signature (TO-15) <span style="float: right; border: 1px solid black; padding: 2px;"><i>Self</i></span>                                        |                |                                 |                                  |             |            |                      |  |                    |          |
|                                                                                                                                                                                                                           |                    | Ambient                  | Maximum                 | Minimum                                    |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
| Start                                                                                                                                                                                                                     |                    | 45                       | 54                      | 38                                         |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
| Stop                                                                                                                                                                                                                      |                    | 39                       |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
| 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                                                                                                                                                                                                                     |                    | 30.05                    |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
| Stop                                                                                                                                                                                                                      |                    | 30.26                    |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
| Special Instructions/QC Requirements & Comments :                                                                                                                                                                         |                    |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
| Suspected Contamination:      High      Medium      Low      PID Readings: <i>0.1 ppm</i>                                                                                                                                 |                    |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
| Sampling site (State): <i>New Jersey</i>                                                                                                                                                                                  |                    |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
| Quick Connector required : <i>No</i>                                                                                                                                                                                      |                    |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |                |                                 |                                  |             |            |                      |  |                    |          |
| Canisters Shipped by: <i>Sam</i>                                                                                                                                                                                          |                    |                          |                         | Date/Time: <i>03/24/25</i>                 |                                    |                            |                           | Canisters Received by: <i>CP</i>                                       |                                   |                                                                                                                                                              |                | Date/Time: <i>3/27/25 11:23</i> |                                  |             |            | <b>B2502051 - 16</b> |  |                    |          |
| Samples Relinquished by: <i>[Signature]</i>                                                                                                                                                                               |                    |                          |                         | Date/Time: <i>3/27/25 11:23</i>            |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                                                                              |                | Date/Time:                      |                                  |             |            |                      |  |                    |          |
| Relinquished by:                                                                                                                                                                                                          |                    |                          |                         | Date/Time:                                 |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                                                                              |                | Date/Time:                      |                                  |             |            |                      |  |                    |          |

|                                                                                                                                                                                                                |                    |                          |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                                                                                                                              |        |     |                                  |              |                                 |  |                    |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------|-------------------------|-----------------------------------|------------------------------------|--------------------------------------------|---------------------------|-----------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|----------------------------------|--------------|---------------------------------|--|--------------------|----------|
| Client Contact Information                                                                                                                                                                                     |                    |                          |                         |                                   |                                    | Bottle Order ID : <b>B2502051</b>          |                           |                                   |                                   | Courier : _____                                                                                                                                              |        |     |                                  | 3 of 13 COCs |                                 |  |                    |          |
| Client ID : <b>WOOD06</b> Project ID : <b>NYCHHC Environmental Services</b>                                                                                                                                    |                    |                          |                         |                                   |                                    | Sampler Name(s) : <i>Clyde Hether</i>      |                           |                                   |                                   | Analysis                                                                                                                                                     |        |     |                                  | Matrix       |                                 |  |                    |          |
| Customer Name : <b>Woodard &amp; Curran</b><br>Address : <b>800 Westchester Avenue, Suite N507</b><br>Suite N507<br>City : <b>Rye Brook</b><br>State : <b>NY</b><br>Zip Code : <b>10573</b><br>Country : _____ |                    |                          |                         |                                   |                                    | Project Manager : <b>Stephanie rogacki</b> |                           |                                   |                                   | <b>AIR ANALYSIS<br/>CHAIN-OF-CUSTODY</b><br><br><b>Batch Certified</b>                                                                                       |        |     |                                  |              |                                 |  |                    |          |
|                                                                                                                                                                                                                |                    |                          |                         |                                   |                                    | Phone Number : <b>800-807-4080</b>         |                           |                                   |                                   |                                                                                                                                                              |        |     |                                  |              |                                 |  |                    |          |
|                                                                                                                                                                                                                |                    |                          |                         |                                   |                                    | Fax Number : <b>914-448-0147</b>           |                           |                                   |                                   |                                                                                                                                                              |        |     |                                  |              |                                 |  |                    |          |
|                                                                                                                                                                                                                |                    |                          |                         |                                   |                                    | Site Details:                              |                           |                                   |                                   |                                                                                                                                                              |        |     |                                  |              |                                 |  |                    |          |
| Analysis Turnaround Time                                                                                                                                                                                       |                    |                          |                         |                                   |                                    | Standard : <b>10 business days</b> OR      |                           |                                   |                                   | 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/Ambient Air | Soil Gas |
| 1A-84-1-3/26/28                                                                                                                                                                                                | 3/26/25<br>3/27/25 | 1104                     | 0905                    | -29                               | -30                                | 55                                         | 55                        | -30                               | -6.3                              | 10771<br>40635                                                                                                                                               | 10320  | 6 L | 100                              | VL042143.D   | X                               |  | X                  |          |
| Temperature (Fahrenheit)                                                                                                                                                                                       |                    |                          |                         |                                   |                                    |                                            |                           |                                   |                                   | GC/MS Analyst Signature (TO-15) <span style="border: 1px solid black; padding: 5px; display: inline-block;">[Signature]</span>                               |        |     |                                  |              |                                 |  |                    |          |
|                                                                                                                                                                                                                |                    | Ambient                  | Maximum                 | Minimum                           |                                    |                                            |                           |                                   |                                   |                                                                                                                                                              |        |     |                                  |              |                                 |  |                    |          |
| Start                                                                                                                                                                                                          |                    | 45                       | 54                      | 38                                |                                    |                                            |                           |                                   |                                   |                                                                                                                                                              |        |     |                                  |              |                                 |  |                    |          |
| Stop                                                                                                                                                                                                           |                    | 39                       |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                                                                                                                              |        |     |                                  |              |                                 |  |                    |          |
| 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                                                                                                                                                                                                          |                    | 30.05                    |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                                                                                                                              |        |     |                                  |              |                                 |  |                    |          |
| Stop                                                                                                                                                                                                           |                    | 30.26                    |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                                                                                                                              |        |     |                                  |              |                                 |  |                    |          |
| Special Instructions/QC Requirements & Comments :                                                                                                                                                              |                    |                          |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                                                                                                                              |        |     |                                  |              |                                 |  |                    |          |
| Suspected Contamination: High Medium Low PID Readings: <i>0.1 ppm</i><br>Sampling site (State): <i>New Jersey</i>                                                                                              |                    |                          |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                                                                                                                              |        |     |                                  |              |                                 |  |                    |          |
| Quick Connector required : <i>NO</i>                                                                                                                                                                           |                    |                          |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                                                                                                                              |        |     |                                  |              |                                 |  |                    |          |
| Canisters Shipped by: <i>Sara</i>                                                                                                                                                                              |                    |                          |                         |                                   | Date/Time: <i>03/24/25</i>         |                                            |                           |                                   |                                   | Canisters Received by: <i>CR</i>                                                                                                                             |        |     |                                  |              | Date/Time: <i>3/27/25 11:29</i> |  |                    |          |
| Samples Relinquished by: <i>Joe Mico</i>                                                                                                                                                                       |                    |                          |                         |                                   | Date/Time: <i>3/27/25 11:29</i>    |                                            |                           |                                   |                                   | Received by: _____                                                                                                                                           |        |     |                                  |              | Date/Time: _____                |  |                    |          |
| Relinquished by: _____                                                                                                                                                                                         |                    |                          |                         |                                   | Date/Time: _____                   |                                            |                           |                                   |                                   | Received by: _____                                                                                                                                           |        |     |                                  |              | Date/Time: _____                |  |                    |          |

**B2502051 - 22**

|                                                                                                                                                                                                                           |                    |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------|-------------------------|--------------------------------------------|------------------------------------|----------------------------|---------------------------|------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------|----------------|--------------------------------|----------------------------------|-------------|-------|----------------------|--|--------------------|----------|
| Client Contact Information                                                                                                                                                                                                |                    |                          |                         | Bottle Order ID : <b>B2502051</b>          |                                    |                            |                           | Courier :                                                              |                                   |                                                                                                            |                | <u>4</u> of <u>13</u> COCs     |                                  |             |       |                      |  |                    |          |
| Client ID : <b>WOOD06</b> Project ID : <b>NYCHHC Environmental Services</b>                                                                                                                                               |                    |                          |                         | Sampler Name(s) : <u>Clayton Hefner</u>    |                                    |                            |                           | Analysis                                                               |                                   |                                                                                                            |                | Matrix                         |                                  |             |       |                      |  |                    |          |
| Customer Name : <b>Woodard &amp; Curran</b><br><br>Address : <b>800 Westchester Avenue, Suite N507 Suite N507</b><br><br>City : <b>Rye Brook</b><br><br>State : <b>NY</b><br><br>Zip Code : <b>10573</b><br><br>Country : |                    |                          |                         | Project Manager : <b>Stephanie rogacki</b> |                                    |                            |                           | <b>AIR ANALYSIS<br/>CHAIN-OF-CUSTODY</b><br><br><b>Batch Certified</b> |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
|                                                                                                                                                                                                                           |                    |                          |                         | Phone Number : <b>800-807-4080</b>         |                                    |                            |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
|                                                                                                                                                                                                                           |                    |                          |                         | Fax Number : <b>914-448-0147</b>           |                                    |                            |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
|                                                                                                                                                                                                                           |                    |                          |                         | Site Details:                              |                                    |                            |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
| Analysis Turnaround Time                                                                                                                                                                                                  |                    |                          |                         | Data Package Type :                        |                                    |                            |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
| Standard : <b>10 business days OR</b>                                                                                                                                                                                     |                    |                          |                         | 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 |
| AA-1-<br>3/26/25                                                                                                                                                                                                          | 3/26/25<br>3/27/25 | 1038                     | 0857                    | -31                                        | -6                                 | —                          | —                         | -30                                                                    | -6.3                              | 10506<br><del>10508</del>                                                                                  | 10285<br>10280 | 6 L                            | 4.16                             | VL042143-D  | X     |                      |  | X                  |          |
| Temperature (Fahrenheit)                                                                                                                                                                                                  |                    |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   | GC/MS Analyst Signature (TO-15) <span style="float: right; border: 1px solid black; padding: 5px;"></span> |                |                                |                                  |             |       |                      |  |                    |          |
|                                                                                                                                                                                                                           |                    | Ambient                  |                         | Maximum                                    |                                    | Minimum                    |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
| Start                                                                                                                                                                                                                     |                    | 45°F                     |                         | 54°F                                       |                                    | 38°F                       |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
| Stop                                                                                                                                                                                                                      |                    | 40°F                     |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
| Pressure (Inches of Hg)                                                                                                                                                                                                   |                    |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   | ** Submittal of this COC indicates approval of the analysis based on existing conditions.<br><del>X</del>  |                |                                |                                  |             |       |                      |  |                    |          |
|                                                                                                                                                                                                                           |                    | Ambient                  |                         | Maximum                                    |                                    | Minimum                    |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
| Start                                                                                                                                                                                                                     |                    | 30.05                    |                         | 30.25                                      |                                    | 29.90                      |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
| Stop                                                                                                                                                                                                                      |                    | 30.25                    |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
| Special Instructions/QC Requirements & Comments :                                                                                                                                                                         |                    |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
| Suspected Contamination:      High                      Medium                      Low                      PID Readings: <u>0.2 ppm</u>                                                                                 |                    |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
| Sampling site (State): <u>New Jersey</u>                                                                                                                                                                                  |                    |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
| Quick Connector required : <u>NO</u>                                                                                                                                                                                      |                    |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                            |                |                                |                                  |             |       |                      |  |                    |          |
| Canisters Shipped by: <u>[Signature]</u>                                                                                                                                                                                  |                    |                          |                         | Date/Time: <u>3/24/25</u>                  |                                    |                            |                           | Canisters Received by: <u>[Signature]</u>                              |                                   |                                                                                                            |                | Date/Time: <u>3/27/25 1125</u> |                                  |             |       | <b>B2502051 - 12</b> |  |                    |          |
| Samples Relinquished by: <u>[Signature]</u>                                                                                                                                                                               |                    |                          |                         | Date/Time: <u>3/27/25/1125</u>             |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                            |                | Date/Time:                     |                                  |             |       |                      |  |                    |          |
| Relinquished by:                                                                                                                                                                                                          |                    |                          |                         | Date/Time:                                 |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                            |                | Date/Time:                     |                                  |             |       |                      |  |                    |          |

|                                                                                                                                                                                                                 |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                |              |                                |                                  |                   |                                     |                      |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|-------------------------|--------------------------------------------|------------------------------------|----------------------------|---------------------------|------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------|----------------------------------|-------------------|-------------------------------------|----------------------|-------------------------------------|
| Client Contact Information                                                                                                                                                                                      |                |                          |                         | Bottle Order ID : <b>B2502051</b>          |                                    |                            |                           | Courier :                                                              |                                   |                                                                                                                                                                                                |              | <u>5</u> of <u>13</u> COCs     |                                  |                   |                                     |                      |                                     |
| Client ID : <b>WOOD06</b> Project ID : <b>NYCHHC Environmental Services</b>                                                                                                                                     |                |                          |                         | Sampler Name(s) :                          |                                    |                            |                           | Analysis                                                               |                                   |                                                                                                                                                                                                |              | Matrix                         |                                  |                   |                                     |                      |                                     |
| Customer Name : <b>Woodard &amp; Curran</b><br>Address : <b>800 Westchester Avenue, Suite N507</b><br><b>Suite N507</b><br>City : <b>Rye Brook</b><br>State : <b>NY</b><br>Zip Code : <b>10573</b><br>Country : |                |                          |                         | Project Manager : <b>Stephanie rogacki</b> |                                    |                            |                           | <b>AIR ANALYSIS<br/>CHAIN-OF-CUSTODY</b><br><br><b>Batch Certified</b> |                                   |                                                                                                                                                                                                |              |                                |                                  |                   |                                     |                      |                                     |
|                                                                                                                                                                                                                 |                |                          |                         | Phone Number : <b>800-807-4080</b>         |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                |              |                                |                                  |                   |                                     |                      |                                     |
|                                                                                                                                                                                                                 |                |                          |                         | Fax Number : <b>914-448-0147</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>SSG-016-3-3/26/25</b>                                                                                                                                                                                        | <b>3/26/25</b> | <b>1452</b>              | <b>1539</b>             | <b>-30</b>                                 | <b>-4.5</b>                        | <b>55</b>                  | <b>55</b>                 | <b>-30</b>                                                             | <b>-3.5</b>                       | <b>10633</b>                                                                                                                                                                                   | <b>10607</b> | <b>6 L</b>                     | <b>100</b>                       | <b>VL041974.D</b> | <input checked="" type="checkbox"/> |                      | <input checked="" type="checkbox"/> |
| Temperature (Fahrenheit)                                                                                                                                                                                        |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   | GC/MS Analyst Signature (TO-15) <span style="float: right; border: 1px solid black; padding: 5px;"></span> |              |                                |                                  |                   |                                     |                      |                                     |
|                                                                                                                                                                                                                 |                | Ambient                  | Maximum                 | Minimum                                    |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                |              |                                |                                  |                   |                                     |                      |                                     |
| Start                                                                                                                                                                                                           |                | <b>50</b>                | <b>54</b>               | <b>38</b>                                  |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                |              |                                |                                  |                   |                                     |                      |                                     |
| Stop                                                                                                                                                                                                            |                | <b>50</b>                |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                |              |                                |                                  |                   |                                     |                      |                                     |
| Pressure (Inches of Hg)                                                                                                                                                                                         |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   | ** Submittal of this COC indicates approval of the analysis based on existing conditions.<br><br>Please follow the instructions on the back of this COC.                                       |              |                                |                                  |                   |                                     |                      |                                     |
|                                                                                                                                                                                                                 |                | Ambient                  | Maximum                 | Minimum                                    |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                |              |                                |                                  |                   |                                     |                      |                                     |
| Start                                                                                                                                                                                                           |                | <b>29.99</b>             |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                |              |                                |                                  |                   |                                     |                      |                                     |
| Stop                                                                                                                                                                                                            |                | <b>29.99</b>             |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                |              |                                |                                  |                   |                                     |                      |                                     |
| Special Instructions/QC Requirements & Comments :                                                                                                                                                               |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                |              |                                |                                  |                   |                                     |                      |                                     |
| Suspected Contamination:      High      Medium      Low      PID Readings: <b>0.0 ppm</b>                                                                                                                       |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                |              |                                |                                  |                   |                                     |                      |                                     |
| Sampling site (State): <b>New Jersey</b>                                                                                                                                                                        |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                |              |                                |                                  |                   |                                     |                      |                                     |
| Quick Connector required : <b>NO</b>                                                                                                                                                                            |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                |              |                                |                                  |                   |                                     |                      |                                     |
| Canisters Shipped by: <b>Scm</b>                                                                                                                                                                                |                |                          |                         | Date/Time: <b>3/24/25</b>                  |                                    |                            |                           | Canisters Received by: <b>CR</b>                                       |                                   |                                                                                                                                                                                                |              | Date/Time: <b>3/27/25 1128</b> |                                  |                   |                                     | <b>B2502051 - 40</b> |                                     |
| Samples Relinquished by: <b>[Signature]</b>                                                                                                                                                                     |                |                          |                         | Date/Time: <b>3/27/25 1125</b>             |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                                                                                                                |              | Date/Time:                     |                                  |                   |                                     |                      |                                     |
| Relinquished by:                                                                                                                                                                                                |                |                          |                         | Date/Time:                                 |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                                                                                                                |              | Date/Time:                     |                                  |                   |                                     |                      |                                     |



|                                                                                                                                                                                                                                                                                                                                |                |                          |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                         |              |            |                                  |                   |                                     |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|-------------------------|-----------------------------------|------------------------------------|--------------------------------------------|---------------------------|-----------------------------------|-----------------------------------|---------------------------------------------------------|--------------|------------|----------------------------------|-------------------|-------------------------------------|-----------|-----------|--------------------|-------------------------------------|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| Client Contact Information                                                                                                                                                                                                                                                                                                     |                |                          |                         |                                   |                                    | Bottle Order ID : <b>B2502051</b>          |                           |                                   |                                   | Courier :                                               |              |            |                                  | 6 of 13 COCs      |                                     |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Client ID : <b>WOOD06</b> Project ID : <b>NYCHHC Environmental Services</b>                                                                                                                                                                                                                                                    |                |                          |                         |                                   |                                    | Sampler Name(s) : <i>Clayton Hefner</i>    |                           |                                   |                                   | Analysis                                                |              |            |                                  | Matrix            |                                     |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Customer Name : <b>Woodard &amp; Curran</b><br>Address : <b>800 Westchester Avenue, Suite N507</b><br><b>Suite N507</b><br>City : <b>Rye Brook</b><br>State : <b>NY</b><br>Zip Code : <b>10573</b><br>Country :                                                                                                                |                |                          |                         |                                   |                                    | Project Manager : <b>Stephanie rogacki</b> |                           |                                   |                                   | AIR ANALYSIS<br>CHAIN-OF-CUSTODY<br><br>Batch Certified |              |            |                                  |                   |                                     |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                |                |                          |                         |                                   |                                    | Phone Number : <b>800-807-4080</b>         |                           |                                   |                                   |                                                         |              |            |                                  |                   |                                     |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                |                |                          |                         |                                   |                                    | Fax Number : <b>914-448-0147</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                            |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| <i>3/26/15</i><br><i>SSGA-BUP-1</i><br><i>- 3/26/15</i>                                                                                                                                                                                                                                                                        | <i>3/26/15</i> | <i>1420</i>              | <i>1500</i>             | <i>-32</i>                        | <i>-5</i>                          | <i>55</i>                                  | <i>55</i>                 | <i>-30</i>                        | <i>-1.8</i>                       | <i>10695</i>                                            | <i>10606</i> | <i>6 L</i> | <i>100</i>                       | <i>VL042143.D</i> | <input checked="" type="checkbox"/> |           |           |                    | <input checked="" type="checkbox"/> |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| 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><i>50</i></td> <td><i>54</i></td> <td><i>38</i></td> </tr> <tr> <td>Stop</td> <td><i>50</i></td> <td></td> <td></td> </tr> </table> |                |                          |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                         | Ambient      | Maximum    | Minimum                          | Start             | <i>50</i>                           | <i>54</i> | <i>38</i> | Stop               | <i>50</i>                           |  |  | GC/MS Analyst Signature (TO-15) <span style="float:right;"><i>[Signature]</i></span>                                                                     |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                | Ambient        | Maximum                  | Minimum                 |                                   |                                    |                                            |                           |                                   |                                   |                                                         |              |            |                                  |                   |                                     |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Start                                                                                                                                                                                                                                                                                                                          | <i>50</i>      | <i>54</i>                | <i>38</i>               |                                   |                                    |                                            |                           |                                   |                                   |                                                         |              |            |                                  |                   |                                     |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Stop                                                                                                                                                                                                                                                                                                                           | <i>50</i>      |                          |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                         |              |            |                                  |                   |                                     |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| 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><i>29.99</i></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td><i>29.99</i></td> <td></td> <td></td> </tr> </table>              |                |                          |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                         | Ambient      | Maximum    | Minimum                          | Start             | <i>29.99</i>                        |           |           | Stop               | <i>29.99</i>                        |  |  | ** 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                                                                                                                                                                                                                                                                                                                          | <i>29.99</i>   |                          |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                         |              |            |                                  |                   |                                     |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Stop                                                                                                                                                                                                                                                                                                                           | <i>29.99</i>   |                          |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                         |              |            |                                  |                   |                                     |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Special Instructions/QC Requirements & Comments :<br>Suspected Contamination: High Medium Low PID Readings: <i>6.0 ppm</i><br>Sampling site (State): <i>New Jersey</i>                                                                                                                                                         |                |                          |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                         |              |            |                                  |                   |                                     |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Quick Connector required : <i>No</i>                                                                                                                                                                                                                                                                                           |                |                          |                         |                                   |                                    |                                            |                           |                                   |                                   |                                                         |              |            |                                  |                   |                                     |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Canisters Shipped by: <i>[Signature]</i>                                                                                                                                                                                                                                                                                       |                |                          |                         |                                   | Date/Time: <i>03/26/15</i>         |                                            |                           |                                   |                                   | Canisters Received by: <i>[Signature]</i>               |              |            |                                  |                   | Date/Time: <i>3/27/15 125</i>       |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Samples Relinquished by: <i>[Signature]</i>                                                                                                                                                                                                                                                                                    |                |                          |                         |                                   | Date/Time: <i>3/27/15 1125</i>     |                                            |                           |                                   |                                   | Received by:                                            |              |            |                                  |                   | Date/Time:                          |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                               |                |                          |                         |                                   | Date/Time:                         |                                            |                           |                                   |                                   | Received by:                                            |              |            |                                  |                   | Date/Time:                          |           |           |                    |                                     |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |

B2502051 - 39

|                                                                                                                                                                                                                           |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|-------------------------|--------------------------------------------|------------------------------------|----------------------------|---------------------------|------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------|----------------------------------|-------------|-------|----------------------|--|--------------------|----------|--|
| Client Contact Information                                                                                                                                                                                                |                |                          |                         | Bottle Order ID : <b>B2502051</b>          |                                    |                            |                           | Courier :                                                              |                                   |                                                                                                                                                              |        | 7 of 13 COCs                  |                                  |             |       |                      |  |                    |          |  |
| Client ID : <b>WOOD06</b> Project ID : <b>NYCHHC Environmental Services</b>                                                                                                                                               |                |                          |                         | Sampler Name(s) : <i>Clayton Helmer</i>    |                                    |                            |                           | Analysis                                                               |                                   |                                                                                                                                                              |        | Matrix                        |                                  |             |       |                      |  |                    |          |  |
| Customer Name : <b>Woodard &amp; Curran</b><br><br>Address : <b>800 Westchester Avenue, Suite N507 Suite N507</b><br><br>City : <b>Rye Brook</b><br><br>State : <b>NY</b><br><br>Zip Code : <b>10573</b><br><br>Country : |                |                          |                         | Project Manager : <b>Stephanie rogacki</b> |                                    |                            |                           | <b>AIR ANALYSIS<br/>CHAIN-OF-CUSTODY</b><br><br><b>Batch Certified</b> |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
|                                                                                                                                                                                                                           |                |                          |                         | Phone Number : <b>800-807-4080</b>         |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
|                                                                                                                                                                                                                           |                |                          |                         | Fax Number : <b>914-448-0147</b>           |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
|                                                                                                                                                                                                                           |                |                          |                         | Site Details:                              |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
|                                                                                                                                                                                                                           |                |                          |                         | Analysis Turnaround Time                   |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
|                                                                                                                                                                                                                           |                |                          |                         | Standard : <b>10 business days</b> OR      |                                    |                            |                           | Data Package Type :                                                    |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
|                                                                                                                                                                                                                           |                |                          |                         | Rush (Specify): <b>Days</b>                |                                    |                            |                           | EDD Type :                                                             |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
| Sample Identification                                                                                                                                                                                                     | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start)          | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab)                                      | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID                                                                                                                                                 | Can ID |                               | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 |                      |  | Indoor/Ambient Air | Soil Gas |  |
| SSSG-B16-1-2/24/25                                                                                                                                                                                                        | 3/26/25        | 1420                     | 1520                    | -30                                        | -6                                 | 55                         | 55                        | -30                                                                    | -8.0                              | 10769                                                                                                                                                        | 10445  | 6 L                           | 100                              | VL042143.D  | X     |                      |  |                    | X        |  |
| Temperature (Fahrenheit)                                                                                                                                                                                                  |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   | GC/MS Analyst Signature (TO-15) <span style="border: 1px solid black; padding: 5px; display: inline-block;"><i>Sue</i></span>                                |        |                               |                                  |             |       |                      |  |                    |          |  |
|                                                                                                                                                                                                                           |                | Ambient                  | Maximum                 | Minimum                                    |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
| Start                                                                                                                                                                                                                     |                | 50                       | 54                      | 38                                         |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
| Stop                                                                                                                                                                                                                      |                | 50                       |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
| 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                                                                                                                                                                                                                     |                | 29.99                    |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
| Stop                                                                                                                                                                                                                      |                | 29.99                    |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
| Special Instructions/QC Requirements & Comments :                                                                                                                                                                         |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
| Suspected Contamination: High Medium Low PID Readings: 0.1 ppm<br>Sampling site (State): <i>New Jersey</i>                                                                                                                |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
| Quick Connector required : <i>NO</i>                                                                                                                                                                                      |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                               |                                  |             |       |                      |  |                    |          |  |
| Canisters Shipped by: <i>Sam</i>                                                                                                                                                                                          |                |                          |                         | Date/Time: <i>03/24/25</i>                 |                                    |                            |                           | Canisters Received by: <i>OR</i>                                       |                                   |                                                                                                                                                              |        | Date/Time: <i>3/27/25 125</i> |                                  |             |       | <b>B2502051 - 28</b> |  |                    |          |  |
| Samples Relinquished by: <i>Red 16</i>                                                                                                                                                                                    |                |                          |                         | Date/Time: <i>3/27/25 125</i>              |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                                                                              |        | Date/Time:                    |                                  |             |       |                      |  |                    |          |  |
| Relinquished by:                                                                                                                                                                                                          |                |                          |                         | Date/Time:                                 |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                                                                              |        | Date/Time:                    |                                  |             |       |                      |  |                    |          |  |



|                                                                                                                                                                                                                           |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |              |                                |                                  |                   |          |                    |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|-------------------------|--------------------------------------------|------------------------------------|----------------------------|---------------------------|------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------|----------------------------------|-------------------|----------|--------------------|----------|
| Client Contact Information                                                                                                                                                                                                |                |                          |                         | Bottle Order ID : <b>B2502051</b>          |                                    |                            |                           | Courier :                                                              |                                   |                                                                                                                                                              |              | <u>8</u> of <u>13</u> COCs     |                                  |                   |          |                    |          |
| Client ID : <b>WOOD06</b> Project ID : <b>NYCHHC Environmental Services</b>                                                                                                                                               |                |                          |                         | Sampler Name(s) : <i>Clyde Plutner</i>     |                                    |                            |                           | Analysis                                                               |                                   |                                                                                                                                                              |              | Matrix                         |                                  |                   |          |                    |          |
| Customer Name : <b>Woodard &amp; Curran</b><br><br>Address : <b>800 Westchester Avenue, Suite N507 Suite N507</b><br><br>City : <b>Rye Brook</b><br><br>State : <b>NY</b><br><br>Zip Code : <b>10573</b><br><br>Country : |                |                          |                         | Project Manager : <b>Stephanie rogacki</b> |                                    |                            |                           | <b>AIR ANALYSIS<br/>CHAIN-OF-CUSTODY</b><br><br><b>Batch Certified</b> |                                   |                                                                                                                                                              |              |                                |                                  |                   |          |                    |          |
|                                                                                                                                                                                                                           |                |                          |                         | Phone Number : <b>800-807-4080</b>         |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |              |                                |                                  |                   |          |                    |          |
|                                                                                                                                                                                                                           |                |                          |                         | Fax Number : <b>914-448-0147</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 |
| <i>SSSA-BIG-2-3/26/25</i>                                                                                                                                                                                                 | <i>3/26/25</i> | <i>1415</i>              | <i>1526</i>             | <i>-30</i>                                 | <i>-5</i>                          | <i>55</i>                  | <i>55</i>                 | <i>-30</i>                                                             | <i>-7.1</i>                       | <i>10773</i>                                                                                                                                                 | <i>10282</i> | <i>6 L</i>                     | <i>100</i>                       | <i>VL041966.D</i> | <i>X</i> |                    | <i>X</i> |
| Temperature (Fahrenheit)                                                                                                                                                                                                  |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   | GC/MS Analyst Signature (TO-15) <span style="border: 1px solid black; padding: 5px; display: inline-block;"><i>[Signature]</i></span>                        |              |                                |                                  |                   |          |                    |          |
|                                                                                                                                                                                                                           |                | Ambient                  | Maximum                 | Minimum                                    |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |              |                                |                                  |                   |          |                    |          |
| Start                                                                                                                                                                                                                     |                | <i>50</i>                | <i>54</i>               | <i>38</i>                                  |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |              |                                |                                  |                   |          |                    |          |
| Stop                                                                                                                                                                                                                      |                | <i>50</i>                |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |              |                                |                                  |                   |          |                    |          |
| 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                                                                                                                                                                                                                     |                | <i>29.99</i>             |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |              |                                |                                  |                   |          |                    |          |
| Stop                                                                                                                                                                                                                      |                | <i>29.99</i>             |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |              |                                |                                  |                   |          |                    |          |
| Special Instructions/QC Requirements & Comments :                                                                                                                                                                         |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |              |                                |                                  |                   |          |                    |          |
| Suspected Contamination: High Medium Low PID Readings: <i>0.0 ppm</i><br>Sampling site (State): <i>New Jersey</i>                                                                                                         |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |              |                                |                                  |                   |          |                    |          |
| Quick Connector required : <i>NO</i>                                                                                                                                                                                      |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |              |                                |                                  |                   |          |                    |          |
| Canisters Shipped by: <i>Seum</i>                                                                                                                                                                                         |                |                          |                         | Date/Time: <i>03/24/25</i>                 |                                    |                            |                           | Canisters Received by: <i>CP</i>                                       |                                   |                                                                                                                                                              |              | Date/Time: <i>3/27/25 1225</i> |                                  |                   |          |                    |          |
| Samples Relinquished by: <i>[Signature]</i>                                                                                                                                                                               |                |                          |                         | Date/Time: <i>3/27/25 1125</i>             |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                                                                              |              | Date/Time:                     |                                  |                   |          |                    |          |
| Relinquished by:                                                                                                                                                                                                          |                |                          |                         | Date/Time:                                 |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                                                                              |              | Date/Time:                     |                                  |                   |          |                    |          |
| <b>B2502051 - 14</b>                                                                                                                                                                                                      |                |                          |                         |                                            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |              |                                |                                  |                   |          |                    |          |

|                                                                                                                                                                                                                                     |                    |                          |                         |                                              |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                 |                |                                |                                  |             |           |                     |  |                    |  |          |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------|-------------------------|----------------------------------------------|------------------------------------|----------------------------|---------------------------|------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------|----------------------------------|-------------|-----------|---------------------|--|--------------------|--|----------|--|
| Client Contact Information                                                                                                                                                                                                          |                    |                          |                         | Bottle Order ID : <b>B2502051</b>            |                                    |                            |                           | Courier :                                                              |                                   |                                                                                                                                                                                                 |                | <u>9</u> of <u>13</u> COCs     |                                  |             |           |                     |  |                    |  |          |  |
| Client ID : <b>WOOD06</b> Project ID : <b>NYCHHC Environmental Services</b>                                                                                                                                                         |                    |                          |                         | Sampler Name(s) : <i>Clayton Ketter</i>      |                                    |                            |                           | Analysis                                                               |                                   |                                                                                                                                                                                                 |                | Matrix                         |                                  |             |           |                     |  |                    |  |          |  |
| Customer Name : <b>Woodard &amp; Curran</b><br><br>Address : <b>800 Westchester Avenue, Suite N507</b><br><b>Suite N507</b><br><br>City : <b>Rye Brook</b><br><br>State : <b>NY</b><br><br>Zip Code : <b>10573</b><br><br>Country : |                    |                          |                         | Project Manager : <b>Stephanie rogacki</b>   |                                    |                            |                           | <b>AIR ANALYSIS<br/>CHAIN-OF-CUSTODY</b><br><br><b>Batch Certified</b> |                                   |                                                                                                                                                                                                 |                |                                |                                  |             |           |                     |  |                    |  |          |  |
|                                                                                                                                                                                                                                     |                    |                          |                         | Phone Number : <b>800-807-4080</b>           |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                 |                |                                |                                  |             |           |                     |  |                    |  |          |  |
|                                                                                                                                                                                                                                     |                    |                          |                         | Fax Number : <b>914-448-0147</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/Ambient Air |  | Soil Gas |  |
| AA-1-<br>3/25/25                                                                                                                                                                                                                    | 3/25/25<br>3/26/25 | 1010                     | 0954                    | -70                                          | -5                                 | -                          | -                         | -30                                                                    | -4.7                              | 10537<br>10785                                                                                                                                                                                  | 10652<br>10054 |                                | 6 L                              | 4.16        | VL04215:D | X                   |  | X                  |  |          |  |
| Temperature (Fahrenheit)                                                                                                                                                                                                            |                    |                          |                         |                                              |                                    |                            |                           |                                                                        |                                   | 10267<br><br>GC/MS Analyst Signature (TO-15) <span style="border: 1px solid black; padding: 5px; display: inline-block;"><i>Sult</i></span>                                                     |                |                                |                                  |             |           |                     |  |                    |  |          |  |
|                                                                                                                                                                                                                                     |                    | Ambient                  | Maximum                 | Minimum                                      |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                 |                |                                |                                  |             |           |                     |  |                    |  |          |  |
| Start                                                                                                                                                                                                                               |                    | 48                       | 60                      | 40                                           |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                 |                |                                |                                  |             |           |                     |  |                    |  |          |  |
| Stop                                                                                                                                                                                                                                |                    | 44                       |                         |                                              |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                 |                |                                |                                  |             |           |                     |  |                    |  |          |  |
| Pressure (Inches of Hg)                                                                                                                                                                                                             |                    |                          |                         |                                              |                                    |                            |                           |                                                                        |                                   | ** Submittal of this COC indicates approval of the analysis based on existing conditions.<br><br><div style="text-align: center;">Please follow the instructions on the back of this COC.</div> |                |                                |                                  |             |           |                     |  |                    |  |          |  |
|                                                                                                                                                                                                                                     |                    | Ambient                  | Maximum                 | Minimum                                      |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                 |                |                                |                                  |             |           |                     |  |                    |  |          |  |
| Start                                                                                                                                                                                                                               |                    | 29.90                    | 30.04                   | 29.90                                        |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                 |                |                                |                                  |             |           |                     |  |                    |  |          |  |
| Stop                                                                                                                                                                                                                                |                    | 30.04                    |                         |                                              |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                 |                |                                |                                  |             |           |                     |  |                    |  |          |  |
| Special Instructions/QC Requirements & Comments :                                                                                                                                                                                   |                    |                          |                         |                                              |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                 |                |                                |                                  |             |           |                     |  |                    |  |          |  |
| Suspected Contamination:      High      Medium      Low      PID Readings: <i>0.1 ppm</i><br><br>Sampling site (State): <i>New Jersey</i>                                                                                           |                    |                          |                         |                                              |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                 |                |                                |                                  |             |           |                     |  |                    |  |          |  |
| Quick Connector required : <i>NO</i>                                                                                                                                                                                                |                    |                          |                         |                                              |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                                                                 |                |                                |                                  |             |           |                     |  |                    |  |          |  |
| Canisters Shipped by: <i>Savin</i>                                                                                                                                                                                                  |                    |                          |                         | Date/Time: <i>03/24/25</i>                   |                                    |                            |                           | Canisters Received by: <i>CL-</i>                                      |                                   |                                                                                                                                                                                                 |                | Date/Time: <i>3/27/25 1125</i> |                                  |             |           | <b>B2502051 - 2</b> |  |                    |  |          |  |
| Samples Relinquished by: <i>1205 Mo</i>                                                                                                                                                                                             |                    |                          |                         | Date/Time: <i>3/27/25 1125</i>               |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                                                                                                                 |                | Date/Time:                     |                                  |             |           |                     |  |                    |  |          |  |
| Relinquished by:                                                                                                                                                                                                                    |                    |                          |                         | Date/Time:                                   |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                                                                                                                 |                | Date/Time:                     |                                  |             |           |                     |  |                    |  |          |  |

**From:** Stephanie Rogacki <SRogacki@woodardcurran.com>  
**Sent:** Thursday, March 27, 2025 3:11 PM  
**To:** Yazmeen Gomez; Jill Tribley; Jordan Hedvat  
**Cc:** Bryan Maurer; Clayton Hefner; Kiran Saleem  
**Subject:** Re: Sample Updates Request

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Hi Yazmeen,

I am answering on Jill's behalf. Thank you for checking with us.

Please analyze all samples listed in Q1669.

Additionally, please change AA-1-3/26/25 ID to AA-2-3/26/25; please also analyze this.

Best regards,  
Steph

**Stephanie Rogacki, MS, CSM**

Environmental Scientist 3 | she/her



📞 [914.460.5641](tel:914.460.5641) 📠 [201.774.0238](tel:201.774.0238) 🌐 [woodardcurran.com](http://woodardcurran.com)

✉️ [srogacki@woodardcurran.com](mailto:srogacki@woodardcurran.com)

📍 [800 Westchester Avenue, Suite N507, Rye Brook, NY 10573](#)



\*\*\*\*\*

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**From:** Yazmeen Gomez  
**Sent:** Thursday, March 27, 2025 2:29 PM  
**To:** Jill Tribley; Stephanie Rogacki; Jordan Hedvat  
**Cc:** Bryan Maurer; Clayton Hefner; Kiran Saleem  
**Subject:** RE: Sample Updates Request

Jill,

Please see attached – just confirming Q1668 are all on hold per COC and Q1669 are OK to analyze (no mention of hold on COC).

There is a few of Indoor and two Ambient air samples that don't mention a hold that I've logged into Q1669.

Let me know if any of those need to be on hold.

**Best Regards,**



**Yazmeen Gomez**  
**Sr. Project Manager**  
**An Alliance Technical Group Company**  
**Main:** 908-789-8900  
**Direct:** 908-728-3147  
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092  
[www.alliancetg.com](http://www.alliancetg.com)   

---

**From:** Jill Tribley <jtribley@woodardcurran.com>  
**Sent:** Thursday, March 27, 2025 1:28 PM  
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>  
**Cc:** Bryan Maurer <bmaurer@woodardcurran.com>; Clayton Hefner <CHefner@woodardcurran.com>; Kiran Saleem <Kiran.Saleem@alliancetg.com>  
**Subject:** RE: Sample Updates Request

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Hi Yazmeen, this will be standard TAT.

Jill D. Tribley, P.G.  
412-535-0833



**From:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>  
**Sent:** Thursday, March 27, 2025 1:14 PM  
**To:** Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>; Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>; Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>  
**Cc:** Bryan Maurer <[bmaurer@woodardcurran.com](mailto:bmaurer@woodardcurran.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>; Kiran Saleem <[Kiran.Saleem@alliancetg.com](mailto:Kiran.Saleem@alliancetg.com)>  
**Subject:** RE: Sample Updates Request

Jill,

Can you confirm the TAT? The lab wants to know if you need anything expediated for Tuesday or Wednesday results?

**Best Regards,**



**Yazmeen Gomez**  
**Sr. Project Manager**  
**An Alliance Technical Group Company**  
**Main:** 908-789-8900  
**Direct:** 908-728-3147  
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092  
[www.alliancetg.com](http://www.alliancetg.com)   

**From:** Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>  
**Sent:** Thursday, March 27, 2025 12:15 PM  
**To:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>; Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>; Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>  
**Cc:** Bryan Maurer <[bmaurer@woodardcurran.com](mailto:bmaurer@woodardcurran.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>; Kiran Saleem <[Kiran.Saleem@alliancetg.com](mailto:Kiran.Saleem@alliancetg.com)>  
**Subject:** RE: Sample Updates Request

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Hello Yazmeen and Kiran,  
I have the info for the (14) 6L Summas we need on Monday:

- (5) 6L Summa canisters with regulators for a 24-hour sampling period
- (4) 6L Summa canisters with 100 ml/min regulators
- (3) 6L Summa canisters with 200 ml/min regulators
- (2) 6L Summa canisters with 70 ml/min regulators

One of our folks can pick these up at 11 am at the lab.  
We will be submitting these samples mid-next week.

A batch of samples and the unused 1.4 L canisters will be dropped off at the lab this afternoon.  
Please confirm you can still accommodate this.  
Thank you!  
-Jill

Jill D. Tribley, P.G.  
412-535-0833



---

**From:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>  
**Sent:** Wednesday, March 26, 2025 1:21 PM  
**To:** Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>; Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>; Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>  
**Cc:** Bryan Maurer <[bmaurer@woodardcurran.com](mailto:bmaurer@woodardcurran.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>; Kiran Saleem <[Kiran.Saleem@alliancetg.com](mailto:Kiran.Saleem@alliancetg.com)>  
**Subject:** RE: Sample Updates Request

Jill,

I spoke with Mohammad he mentioned we can provide 14 Cans on Friday – if you wanted them all to be 200ml/min or to switch them up?

Also, for the sampling team – each Summa Can belongs to a specific Chain of Custody. Looks like the sampler was just crossing out things on our COC instead of keeping the coordinated Chain and Summa Can together which causes confusion in the lab. If you can just have the samplers keep the Chain and related Summa Can together, the same way they are packages when delivered.

Best Regards,



**Yazmeen Gomez**  
**Sr. Project Manager**  
**An Alliance Technical Group Company**  
**Main:** 908-789-8900  
**Direct:** 908-728-3147  
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092  
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**From:** Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>  
**Sent:** Wednesday, March 26, 2025 12:49 PM  
**To:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>; Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>; Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>  
**Cc:** Bryan Maurer <[bmaurer@woodardcurran.com](mailto:bmaurer@woodardcurran.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>  
**Subject:** RE: Sample Updates Request

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Hi Yazmeen,

Can we get another pickup mid day tomorrow? Would you be able to bring the 24 hour IA and AA canisters at that time?

The canisters and associated regulators are for 1.4 liter canisters. We requested and require 6 liter canisters for this project. When can you get the correct canisters and regulators on site?

Jill D. Tribley, P.G.  
412-535-0833




---

**From:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>  
**Sent:** Wednesday, March 26, 2025 12:01 PM  
**To:** Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>; Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>  
**Cc:** Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>; Bryan Maurer <[bmaurer@woodardcurran.com](mailto:bmaurer@woodardcurran.com)>  
**Subject:** RE: Sample Updates Request

Hi Stephanie,

Please see below responses in RED.

Best Regards,



**Yazmeen Gomez**  
**Sr. Project Manager**  
**An Alliance Technical Group Company**  
**Main:** 908-789-8900  
**Direct:** 908-728-3147  
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092  
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**From:** Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>  
**Sent:** Wednesday, March 26, 2025 11:54 AM  
**To:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>; Jordan Hedvat <[Jordan.Hedvat@alliancetg.com](mailto:Jordan.Hedvat@alliancetg.com)>  
**Cc:** Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>; Bryan Maurer <[bmaurer@woodardcurran.com](mailto:bmaurer@woodardcurran.com)>  
**Subject:** Sample Updates Request

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Hi Yazmeen/Jordan,

1. When is the next pickup / drop off scheduled for? **We currently do not have another pick up / drop off scheduled after today. Last we spoke you mentioned you weren't sure if you'd need additional cans. And you'd reach out once you've coordinated with the field teams to schedule the pickups.**
2. We will need 7 more 24 hour samples - 6 IA and 1 AA **When do you need these by?**
3. The name of this project is Riverside Superfund Site not "NYCHHC Environmental Services" **Noted**
4. The PM for this project is Bryan Maurer not me. He is copied here. Please update him for project notes. **Noted**
5. Please copy both Bryan and Jill (copied) on results and acknowledgments, and all other correspondence regarding this project. **Noted**

Best regards,  
Steph

**Stephanie Rogacki, MS, CSM**  
Environmental Scientist 3 | she/her



 [914.460.5641](tel:914.460.5641)  [201.774.0238](tel:201.774.0238)  [woodardcurran.com](http://woodardcurran.com)

 [srogacki@woodardcurran.com](mailto:srogacki@woodardcurran.com)

 [800 Westchester Avenue, Suite N507, Rye Brook, NY 10573](#)



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**From:** Jill Tribley <jtribley@woodardcurran.com>  
**Sent:** Monday, April 07, 2025 1:04 PM  
**To:** Yazmeen Gomez; Stephanie Rogacki; Bryan Maurer  
**Cc:** Jordan Hedvat; Clayton Hefner  
**Subject:** RE: Canister Drop Off Confirmation / Pick Up Schedule Change

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Hi Yazmeen, 5-day TAT for just SSSG samples only will be fine with us. As of now, we won't want to do the IA samples as 5-day TAT if we need to analyze those.

Jill D. Tribley, P.G.  
412-535-0833



**From:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>  
**Sent:** Monday, April 7, 2025 11:52 AM  
**To:** Jill Tribley <jtribley@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>; Bryan Maurer <bmaurer@woodardcurran.com>  
**Cc:** Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>; Clayton Hefner <CHefner@woodardcurran.com>  
**Subject:** RE: Canister Drop Off Confirmation / Pick Up Schedule Change

Hi Jill,

Yes, there would be a 5 DAY TAT surcharge –

| EXPRESS...         | ADDITIONAL CHARGES |
|--------------------|--------------------|
| Ten Working Days   | 0                  |
| Five Working Days  | 15                 |
| Three Working Days | 50                 |
| Two Working Days   | 75                 |
| One Working Day    | 100                |
| Same Day           | 200                |

Best Regards,



**Yazmeen Gomez**  
**Sr. Project Manager**  
**An Alliance Technical Group Company**  
**Main:** 908-789-8900  
**Direct:** 908-728-3147  
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092  
[www.alliancetg.com](http://www.alliancetg.com)     

---

**From:** Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>  
**Sent:** Monday, April 7, 2025 11:35 AM  
**To:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>; Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>; Bryan Maurer <[bmaurer@woodardcurran.com](mailto:bmaurer@woodardcurran.com)>  
**Cc:** Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>  
**Subject:** RE: Canister Drop Off Confirmation / Pick Up Schedule Change

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Hi Yazmeen, are there cost implications? Will we be charged the expedited TAT fee?  
Apologies for missing your call, I had a dr. appt this morning.  
-Jill

Jill D. Tribley, P.G.  
412-535-0833



---

**From:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>  
**Sent:** Monday, April 7, 2025 10:56 AM  
**To:** Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>; Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>  
**Cc:** Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>  
**Subject:** RE: Canister Drop Off Confirmation / Pick Up Schedule Change

Good morning Jill,

I tried giving you a call a few minutes ago and couldn't reach you. I did call Stephanie as well, she mentioned she cannot make this call.

My lab manager is wondering if we can adjust the TAT to 5 days instead of 10? For at least the SSSG samples that aren't on hold? We have so many cans on hold that we aren't able to provide anything for anyone else. Possibly provide the first round of results today if we can adjust the TAT.

**Best Regards,**



**Yazmeen Gomez**  
**Sr. Project Manager**  
**An Alliance Technical Group Company**  
**Main:** 908-789-8900  
**Direct:** 908-728-3147  
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092  
[www.alliancetg.com](http://www.alliancetg.com)     

**From:** Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>  
**Sent:** Thursday, April 3, 2025 11:58 AM  
**To:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>; Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>  
**Cc:** Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>  
**Subject:** RE: Canister Drop Off Confirmation / Pick Up Schedule Change

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Thanks Yazmeen  
Clayton is driving now but he will be able to respond once he's back.

Jill D. Tribley, P.G.  
412-535-0833



**From:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>  
**Sent:** Thursday, April 3, 2025 11:53 AM  
**To:** Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>; Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>  
**Cc:** Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>  
**Subject:** RE: Canister Drop Off Confirmation / Pick Up Schedule Change

Good morning,

Please see attached.

One of these was missing the CAN ID on the COC and the other has nothing filled out on the tag.  
The Air Lab attempted to match the COCs with a Summa Can – can you confirm these go with one another?

**Best Regards,**



**Yazmeen Gomez**  
**Sr. Project Manager**  
**An Alliance Technical Group Company**  
**Main:** 908-789-8900  
**Direct:** 908-728-3147

**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092

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**From:** Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>

**Sent:** Monday, March 31, 2025 3:02 PM

**To:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>; Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>

**Cc:** Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>

**Subject:** RE: Canister Drop Off Confirmation / Pick Up Schedule Change

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Thank you! Clayton was tied up in traffic but he thought he would be there in about 10 minutes.

Jill D. Tribley, P.G.

412-535-0833



**From:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>

**Sent:** Monday, March 31, 2025 3:00 PM

**To:** Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>; Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>

**Cc:** Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>

**Subject:** RE: Canister Drop Off Confirmation / Pick Up Schedule Change

Jill,

We are going to leave the regulators in the shipping/ receiving room just incase the person picking up can't get here until later in the day.

The code to get into the room is 2,3,4,5. If they have any samples to drop off, they can also leave them in this room. Someone will grab them in the morning.

**Best Regards,**

**Yazmeen Gomez**

**Sr. Project Manager**

**An Alliance Technical Group Company**

**Main:** 908-789-8900

**Direct:** 908-728-3147

**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092

[www.alliancetg.com](http://www.alliancetg.com)   



**From:** Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>  
**Sent:** Tuesday, March 25, 2025 10:30 AM  
**To:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>; Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>  
**Cc:** Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>  
**Subject:** RE: Canister Drop Off Confirmation / Pick Up Schedule Change

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Secured by Check Point

Hi Yazmeen, that should not be an issue on our end.  
Thank you!  
-Jill

Jill D. Tribley, P.G.  
412-535-0833



**From:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>  
**Sent:** Tuesday, March 25, 2025 10:28 AM  
**To:** Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>  
**Cc:** Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>; Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>  
**Subject:** RE: Canister Drop Off Confirmation / Pick Up Schedule Change

Stephanie,

The Air Lab mentioned the closest they can get to 66ml/min is 70 ml/min.

Best Regards,



**Yazmeen Gomez**  
**Sr. Project Manager**  
**An Alliance Technical Group Company**  
**Main:** 908-789-8900  
**Direct:** 908-728-3147  
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092

[www.alliancetg.com](http://www.alliancetg.com)     

**From:** Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>  
**Sent:** Monday, March 24, 2025 2:25 PM  
**To:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>  
**Cc:** Jordan Hedvat <[Jordan.Hedvat@alliancetg.com](mailto:Jordan.Hedvat@alliancetg.com)>; Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>; Clayton Hefner

<CHefner@woodardcurran.com>

**Subject:** Fw: Canister Drop Off Confirmation / Pick Up Schedule Change

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Hi Yazmeen,

I think the request to have 3 of the SSGS canisters set at 66 ml/min was missed. I sent this on 3/18. Can we have this prepped for drop off on Wednesday?

Best regards,  
Steph

**Stephanie Rogacki, MS, CSM**  
Environmental Scientist 3 | she/her



📞 914.460.5641 📠 201.774.0238 🌐 [woodardcurran.com](http://woodardcurran.com)

✉️ [srogacki@woodardcurran.com](mailto:srogacki@woodardcurran.com)

📍 800 Westchester Avenue, Suite N507, Rye Brook, NY  
10573



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**From:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>  
**Sent:** Monday, March 24, 2025 2:06 PM  
**To:** Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>



**Cc:** Jordan Hedvat <[Jordan.Hedvat@AllianceTG.com](mailto:Jordan.Hedvat@AllianceTG.com)>; Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>

**Subject:** RE: Canister Drop Off Confirmation / Pick Up Schedule Change

Hi Stephanie,

You will be receiving all requested 41 summa cans for SSGS ON 3/26.

Best Regards,



**Yazmeen Gomez**  
**Sr. Project Manager**  
**An Alliance Technical Group Company**  
**Main:** 908-789-8900  
**Direct:** 908-728-3147  
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092  
[www.alliancetg.com](http://www.alliancetg.com)   

---

**From:** Stephanie Rogacki <[SRogacki@woodardcurran.com](mailto:SRogacki@woodardcurran.com)>

**Sent:** Monday, March 24, 2025 1:56 PM

**To:** Yazmeen Gomez <[Yazmeen.Gomez@alliancetg.com](mailto:Yazmeen.Gomez@alliancetg.com)>

**Cc:** Jordan Hedvat <[Jordan.Hedvat@alliancetg.com](mailto:Jordan.Hedvat@alliancetg.com)>; Jill Tribley <[jtribley@woodardcurran.com](mailto:jtribley@woodardcurran.com)>; Clayton Hefner <[CHefner@woodardcurran.com](mailto:CHefner@woodardcurran.com)>

**Subject:** Canister Drop Off Confirmation / Pick Up Schedule Change

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Hi Yazmeen,

Our field team received IA, AA canisters along with an additional 10 1-hr canisters set at 100 ml/min this morning.

We would like to schedule the drop off of SSGS canisters and pick up of IA/AA canisters at 9 AM Wednesday morning (March 26th, 2025).

Would you let us know how many canisters we should expect to receive next? Could you send over the order confirmation for this next round of canisters?

Thank you!

Best regards,  
Steph

**Stephanie Rogacki, MS, CSM**

Environmental Scientist 3| she/her



📞 [914.460.5641](tel:914.460.5641) 📠 [201.774.0238](tel:201.774.0238) 🌐 [woodardcurran.com](http://woodardcurran.com)

✉️ [srogacki@woodardcurran.com](mailto:srogacki@woodardcurran.com)

📍 [800 Westchester Avenue, Suite N507, Rye Brook, NY 10573](#)



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### 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>NORGE</del>                                                                              |  | Title: <u>Sample Custodian</u>                               |                                            |
| Field Sample Seal No.: <u>Q1669</u>                                                           |  | Date Broken: <u>3/27/2025</u>                                | Military Time Seal Broken: <u>11:25:00</u> |
| Case No.: <u>US EPA Riverside Industria</u>                                                   |  | Analytical Parameter/Fraction: <u>TO-15</u>                  |                                            |

| Sample No. | Aliquot/Extract No.                  | Sample No. | Aliquot/Extract No. |
|------------|--------------------------------------|------------|---------------------|
| Q1669-01   | IA-B9-3-3262025                      |            |                     |
| Q1669-02   | IA-B9-2-3262025                      |            |                     |
| Q1669-03   | IA-B9-1-3262025                      |            |                     |
| Q1669-04   | <del>AA-2-3262025</del> AA-1-3262025 |            |                     |
| Q1669-05   | SSSG-B16-3-3262025                   |            |                     |
| Q1669-06   | SSSG-DUP-1-3262025                   |            |                     |
| Q1669-07   | SSSG-B16-1-3262025                   |            |                     |
| Q1669-08   | SSSG-B16-2-3262025                   |            |                     |
| Q1669-09   | <del>AA-2-3262025</del> AA-2-3262025 |            |                     |

| Date | Time | Relinquished By                                                                             | Received By                                                                                 | Purpose of Change of Custody |
|------|------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------|
| 3/27 | 1440 | Signature  | Signature  |                              |
|      |      | Printed Name <u>G. N. G. N.</u>                                                             | Printed Name <u>S. S. S. S.</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:**

**Supervisor Signature:**

**METHOD: TO-15**

Pressure Gauge ID:

Document Control # A3041228



1159  
571

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

**CHEMTECH**

Client Sample ID #: 1A-B9-3-3/26/25  
Client Name: W+C  
Project Name: Riverside  
Date: 3/26-3/27/25 Time: 0909 (3/27/25)  
Analysis: TO-15  
Comments: \_\_\_\_\_  
CHEMTECH  
Date Received: \_\_\_\_\_  
Storage Location: Air Lab  
Sample: Q1669-01  
Cust #: IA-B9-3-32625  
Disposal: \_\_\_\_\_

651  
28201

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

**CHEMTECH**

Client Sample ID #: 1A-B9-2-3/26/25  
Client Name: W+C  
Project Name: Riverside  
Date: 3/26-3/27/25 Time: 0932 (3/27/25)  
Analysis: TO-15  
Comments: \_\_\_\_\_  
CHEMTECH'S  
Date Received: \_\_\_\_\_  
Storage Location: Air Lab  
Sample: Q1669-02  
Cust #: IA-B9-2-32625  
Disposal: \_\_\_\_\_

639-  
28201

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

**CHEMTECH**

Client Sample ID #: 1A-B9-1-3/26/25  
Client Name: W+C  
Project Name: Riverside  
Date: 3/26/25 Time: 0905 (3/27/25)  
Analysis: TO-15  
Comments: \_\_\_\_\_  
CHEMTECH  
Date Received: \_\_\_\_\_  
Storage Location: Air Lab  
Sample: Q1669-03  
Cust #: IA-B9-1-32625  
Disposal: \_\_\_\_\_

49201  
4-1

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

Client Sample ID #: AA-1-3/25/15  
Client Name: Wabash & Corbin  
Project Name: PPG Rivside  
Date: 3/25/15 Time: 0954  
Analysis: TO-15  
Comment: \_\_\_\_\_  
CHEMTECH \_\_\_\_\_  
Date Received: \_\_\_\_\_

Storage Location: Air Lab  
Sample: Q1669-04  
Cust #: AA-2-3252025

Disposal: \_\_\_\_\_  
32502051

49201  
15-2

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

Client Sample ID #: SSSG-B16-3-3/26/25  
Client Name: W+C  
Project Name: Rivside  
Date: 3/26/15 Time: 1539  
Analysis: TO-15  
Comment: \_\_\_\_\_  
CHEMTECH'S \_\_\_\_\_  
Date Received: \_\_\_\_\_

Storage Location: Air Lab  
Sample: Q1669-05  
Cust #: SSSG-B16-3-32625

Disposal: \_\_\_\_\_  
32502051

81-  
9090

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

Client Sample ID #: SSSG-DUP-1-3/26/25  
Client Name: W+C  
Project Name: Rivside  
Date: 3/26/25 Time: 1400 - 1500  
Analysis: TO-15  
Comment: \_\_\_\_\_  
CHEMTECH \_\_\_\_\_  
Date Received: \_\_\_\_\_

Storage Location: Air Lab  
Sample: Q1669-06  
Cust #: SSSG-DUP-1-32625

Disposal: \_\_\_\_\_  
15020578



10445  
8.8

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

**CHEMTECH**

Client Sample ID #: SSSG-B16-1-3/26/25  
 Client Name: WtC  
 Project Name: Riverside  
 Date: 3/26/25 Time: 1520  
 Analysis: TO-15  
 Comments: \_\_\_\_\_  
 CHEMTECH'S SAMPLING  
 Date Received: \_\_\_\_\_

Storage Location: Air Lab  
 Sample: Q1669-07  
 Cust #: SSSG-B16-1-32625

dispose: B2502051

10282  
17

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

**CHEMTECH**

Client Sample ID #: SSSG-B16-2-3/26/25  
 Client Name: WtC  
 Project Name: Riverside  
 Date: 3/26/25 Time: 15:26  
 Analysis: TO-15  
 Comments: \_\_\_\_\_  
 CHEMTECH'S SAMPLING  
 Date Received: \_\_\_\_\_

Storage Location: Air Lab  
 Sample: Q1669-08  
 Cust #: SSSG-B16-2-32625

dispose: B2502051

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

**CHEMTECH**

Client Sample ID #: AA-1-3/26/25  
 Client Name: WtC  
 Project Name: Riverside  
 Date: 3/26/25 Time: 0857 (3/27/25)  
 Analysis: TO-15  
 Comments: \_\_\_\_\_  
 CHEMTECH'S SAMPLING  
 Date Received: \_\_\_\_\_

Storage Location: Air Lab  
 Sample: Q1669-09  
 Cust #: AA-3-3252025

dispose: B2502051

## **CASE NARRATIVE**

### **Woodard & Curran**

**Project Name: US EPA Riverside Industrial Park Superfund Site**

**Project # N/A**

**Chemtech Project # Q1669**

**Test Name: TO-15**

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

9 Air samples were received on 03/27/2025.

#### **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 for {Q1669-09DUP} with File ID: VL042190.D met criteria except for 2-Butanone[24.4%], m/p-Xylene[200%] due to difference in results of original and DUP.

The RPD for {Q1669-01DUP} with File ID: VL042196.D met criteria except for 1,3,5-Trimethylbenzene[200%], Cyclohexane[200%] due to difference in results of original and DUP.

The RPD for {Q1669-06DUP} with File ID: VL042206.D met criteria except for Tetrachloroethene[200%] due to difference in results of original and DUP.

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.

Samples IA-B9-3-3262025, SSSG-DUP-1-3262025 and SSSG-B16-1-3262025 were diluted due to high concentrations.

#### E. Additional Comments:

This Data Package has been revised due to client ID corrected for sam#04 and 09. The Sample #IA-B9-3-3262025, IA-B9-3-3262025DL, AA-1-3262025, SSSG-DUP-1-3262025DL, SSSG-B16-1-3262025, SSSG-B16-1-3262025DL, SSSG-B16-2-3262025, AA-2-3262025 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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                  | vl032725 | Instrument | MSVOA_I |

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

|             |            |             |     |                          |          |                        |                                         |
|-------------|------------|-------------|-----|--------------------------|----------|------------------------|-----------------------------------------|
| VSTDICCC010 | VL042172.D | m/p-Xylene  | SAM | 3/31/2025<br>11:24:55 AM | MMDadoda | 4/3/2025<br>8:05:09 AM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042173.D | 1,4-Dioxane | SAM | 3/31/2025<br>11:25:00 AM | MMDadoda | 4/3/2025<br>8:05:13 AM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042173.D | Ethanol     | SAM | 3/31/2025<br>11:25:00 AM | MMDadoda | 4/3/2025<br>8:05:13 AM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042173.D | m/p-Xylene  | SAM | 3/31/2025<br>11:25:00 AM | MMDadoda | 4/3/2025<br>8:05:13 AM | Peak Integrated by Software incorrectly |
| VSTDICCC001 | VL042174.D | 1,4-Dioxane | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software             |

|            |            |                          |     |                          |          |                        |                                         |
|------------|------------|--------------------------|-----|--------------------------|----------|------------------------|-----------------------------------------|
|            |            |                          |     |                          |          |                        | incorrectly                             |
| VSTDICC001 | VL042174.D | 4-Methyl-2-Pentanone     | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | Ethanol                  | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | m/p-Xylene               | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | Methyl Methacrylate      | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | Propene                  | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | t-1,3-Dichloropropene    | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | trans-1,2-Dichloroethene | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL042174.D | Vinyl Acetate            | SAM | 3/31/2025<br>11:26:28 AM | MMDadoda | 4/3/2025<br>8:05:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | 1,1,2-Trichloroethane    | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |

|            |            |                           |     |                          |          |                        |                                         |
|------------|------------|---------------------------|-----|--------------------------|----------|------------------------|-----------------------------------------|
| VSTDICC0.5 | VL042175.D | 1,4-Dioxane               | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | cis-1,3-Dichloropropene   | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Cyclohexane               | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | m/p-Xylene                | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Methyl Methacrylate       | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Propene                   | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Tetrahydrofuran           | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL042175.D | Trichloroethene           | SAM | 3/31/2025<br>11:26:33 AM | MMDadoda | 4/3/2025<br>8:05:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL042176.D | 1,1,1-Trichloroethane     | SAM | 3/31/2025<br>11:25:04 AM | MMDadoda | 4/3/2025<br>8:05:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL042176.D | 1,1,2,2-Tetrachloroethane | SAM | 3/31/2025                | MMDadoda | 4/3/2025               | Peak Integrate                          |



|             |            |                           |     |                       |          |                     |                                          |
|-------------|------------|---------------------------|-----|-----------------------|----------|---------------------|------------------------------------------|
|             |            |                           |     | 11:25:04 AM           |          | 8:05:45 AM          | d by Software incorrectl y               |
| VSTDICC0.1  | VL042176.D | 1,2-Dibromoethane         | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.1  | VL042176.D | Carbon Tetrachloride      | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.1  | VL042176.D | Trichloroethene           | SAM | 3/31/2025 11:25:04 AM | MMDadoda | 4/3/2025 8:05:45 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.03 | VL042177.D | 1,1,1-Trichloroethane     | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.03 | VL042177.D | 1,1,2,2-Tetrachloroethane | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.03 | VL042177.D | Carbon Tetrachloride      | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.03 | VL042177.D | Tetrachloroethene         | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.03 | VL042177.D | Trichloroethene           | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software incorrectl y |
| VSTDICC0.03 | VL042177.D | Vinyl Chloride            | SAM | 3/31/2025 11:26:39 AM | MMDadoda | 4/3/2025 8:05:59 AM | Peak Integrated by Software              |

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|             |            |                        |     |                          |          |                        | incorrectly                             |
| VSTDIC015   | VL042178.D | m/p-Xylene             | SAM | 3/31/2025<br>11:25:14 AM | MMDadoda | 4/3/2025<br>8:06:09 AM | Peak Integrated by Software incorrectly |
| VSTDICV010  | VL042179.D | m/p-Xylene             | SAM | 3/31/2025<br>11:28:50 AM | MMDadoda | 4/3/2025<br>8:06:14 AM | Peak Integrated by Software incorrectly |
| VL0327ABS01 | VL042181.D | m/p-Xylene             | SAM | 3/31/2025<br>11:25:09 AM | MMDadoda | 4/3/2025<br>8:06:19 AM | Peak Integrated by Software incorrectly |
| Q1669-01    | VL042185.D | 2,2,4-Trimethylpentane | SAM | 3/31/2025<br>11:26:49 AM | MMDadoda | 4/3/2025<br>8:06:44 AM | Peak Integrated by Software incorrectly |
| Q1669-01    | VL042185.D | 4-Methyl-2-Pentanone   | SAM | 3/31/2025<br>11:26:49 AM | MMDadoda | 4/3/2025<br>8:06:44 AM | Peak Integrated by Software incorrectly |
| Q1669-01    | VL042185.D | Chlorodifluoromethane  | SAM | 3/31/2025<br>11:26:49 AM | MMDadoda | 4/3/2025<br>8:06:44 AM | Peak Integrated by Software incorrectly |
| Q1669-01    | VL042185.D | Cyclohexane            | SAM | 3/31/2025<br>11:26:49 AM | MMDadoda | 4/3/2025<br>8:06:44 AM | Peak Integrated by Software incorrectly |
| Q1669-01    | VL042185.D | Heptane                | SAM | 3/31/2025<br>11:26:49 AM | MMDadoda | 4/3/2025<br>8:06:44 AM | Peak Integrated by Software incorrectly |
| Q1669-01    | VL042185.D | m/p-Xylene             | SAM | 3/31/2025<br>11:26:49 AM | MMDadoda | 4/3/2025<br>8:06:44 AM | Peak Integrated by Software incorrectly |

|          |            |                        |     |                          |          |                        |                                         |
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| Q1669-02 | VL042186.D | 2,2,4-Trimethylpentane | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Carbon Tetrachloride   | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Chlorodifluoromethane  | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Cyclohexane            | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Heptane                | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Propene                | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Styrene                | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-02 | VL042186.D | Trichloroethene        | SAM | 3/31/2025<br>11:26:59 AM | MMDadoda | 4/3/2025<br>8:06:49 AM | Peak Integrated by Software incorrectly |
| Q1669-03 | VL042187.D | 2,2,4-Trimethylpentane | SAM | 3/31/2025<br>11:25:41 AM | MMDadoda | 4/3/2025<br>8:06:54 AM | Peak Integrated by Software incorrectly |
| Q1669-03 | VL042187.D | 4-Methyl-2-Pentanone   | SAM | 3/31/2025                | MMDadoda | 4/3/2025               | Peak Integrated                         |

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|          |            |                       |     | 11:25:41 AM           |          | 8:06:54 AM          | d by Software incorrectl y               |
| Q1669-03 | VL042187.D | Carbon Tetrachloride  | SAM | 3/31/2025 11:25:41 AM | MMDadoda | 4/3/2025 8:06:54 AM | Peak Integrated by Software incorrectl y |
| Q1669-03 | VL042187.D | Cyclohexane           | SAM | 3/31/2025 11:25:41 AM | MMDadoda | 4/3/2025 8:06:54 AM | Peak Integrated by Software incorrectl y |
| Q1669-03 | VL042187.D | Heptane               | SAM | 3/31/2025 11:25:41 AM | MMDadoda | 4/3/2025 8:06:54 AM | Peak Integrated by Software incorrectl y |
| Q1669-03 | VL042187.D | n-propylbenzene       | SAM | 3/31/2025 11:25:41 AM | MMDadoda | 4/3/2025 8:06:54 AM | Peak Integrated by Software incorrectl y |
| Q1669-04 | VL042188.D | Carbon Tetrachloride  | SAM | 3/31/2025 11:25:57 AM | MMDadoda | 4/3/2025 8:07:00 AM | Peak Integrated by Software incorrectl y |
| Q1669-04 | VL042188.D | Chlorodifluoromethane | SAM | 3/31/2025 11:25:57 AM | MMDadoda | 4/3/2025 8:07:00 AM | Peak Integrated by Software incorrectl y |
| Q1669-04 | VL042188.D | m/p-Xylene            | SAM | 3/31/2025 11:25:57 AM | MMDadoda | 4/3/2025 8:07:00 AM | Peak Integrated by Software incorrectl y |
| Q1669-04 | VL042188.D | Propene               | SAM | 3/31/2025 11:25:57 AM | MMDadoda | 4/3/2025 8:07:00 AM | Peak Integrated by Software incorrectl y |
| Q1669-09 | VL042189.D | Carbon Tetrachloride  | SAM | 3/31/2025 11:25:37 AM | MMDadoda | 4/3/2025 8:07:08 AM | Peak Integrated by Software              |

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|             |            |                      |     |                          |          |                        | incorrectly                             |
| Q1669-09    | VL042189.D | m/p-Xylene           | SAM | 3/31/2025<br>11:25:37 AM | MMDadoda | 4/3/2025<br>8:07:08 AM | Peak Integrated by Software incorrectly |
| Q1669-09    | VL042189.D | Propene              | SAM | 3/31/2025<br>11:25:37 AM | MMDadoda | 4/3/2025<br>8:07:08 AM | Peak Integrated by Software incorrectly |
| Q1669-09DUP | VL042190.D | Benzene              | SAM | 3/31/2025<br>11:27:04 AM | MMDadoda | 4/3/2025<br>8:07:18 AM | Peak Integrated by Software incorrectly |
| Q1669-09DUP | VL042190.D | Carbon Tetrachloride | SAM | 3/31/2025<br>11:27:04 AM | MMDadoda | 4/3/2025<br>8:07:18 AM | Peak Integrated by Software incorrectly |
| Q1669-09DUP | VL042190.D | m/p-Xylene           | SAM | 3/31/2025<br>11:27:04 AM | MMDadoda | 4/3/2025<br>8:07:18 AM | Peak Integrated by Software incorrectly |
| Q1669-09DUP | VL042190.D | Toluene              | SAM | 3/31/2025<br>11:27:04 AM | MMDadoda | 4/3/2025<br>8:07:18 AM | Peak Integrated by Software incorrectly |
| Q1669-07DL  | VL042192.D | 4-Methyl-2-Pentanone | SAM | 3/31/2025<br>11:27:27 AM | MMDadoda | 4/3/2025<br>8:07:28 AM | Peak Integrated by Software incorrectly |
| Q1669-07DL  | VL042192.D | m/p-Xylene           | SAM | 3/31/2025<br>11:27:27 AM | MMDadoda | 4/3/2025<br>8:07:28 AM | Peak Integrated by Software incorrectly |
| Q1669-01DL  | VL042195.D | m/p-Xylene           | SAM | 3/31/2025<br>11:27:14 AM | MMDadoda | 4/3/2025<br>8:07:50 AM | Peak Integrated by Software incorrectly |

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|-------------|------------|------------------------|-----|--------------------------|----------|------------------------|-----------------------------------------|
| Q1669-01DL  | VL042195.D | Propene                | SAM | 3/31/2025<br>11:27:14 AM | MMDadoda | 4/3/2025<br>8:07:50 AM | Peak Integrated by Software incorrectly |
| Q1669-01DUP | VL042196.D | 2,2,4-Trimethylpentane | SAM | 3/31/2025<br>11:25:32 AM | MMDadoda | 4/3/2025<br>8:07:55 AM | Peak Integrated by Software incorrectly |
| Q1669-01DUP | VL042196.D | 4-Methyl-2-Pentanone   | SAM | 3/31/2025<br>11:25:32 AM | MMDadoda | 4/3/2025<br>8:07:55 AM | Peak Integrated by Software incorrectly |
| Q1669-01DUP | VL042196.D | Cyclohexane            | SAM | 3/31/2025<br>11:25:32 AM | MMDadoda | 4/3/2025<br>8:07:55 AM | Peak Integrated by Software incorrectly |
| Q1669-01DUP | VL042196.D | Heptane                | SAM | 3/31/2025<br>11:25:32 AM | MMDadoda | 4/3/2025<br>8:07:55 AM | Peak Integrated by Software incorrectly |
| Q1669-05    | VL042197.D | Carbon Tetrachloride   | SAM | 3/31/2025<br>11:26:03 AM | MMDadoda | 4/3/2025<br>8:08:00 AM | Peak Integrated by Software incorrectly |
| Q1669-05    | VL042197.D | Chlorodifluoromethane  | SAM | 3/31/2025<br>11:26:03 AM | MMDadoda | 4/3/2025<br>8:08:00 AM | Peak Integrated by Software incorrectly |
| Q1669-05    | VL042197.D | Cyclohexane            | SAM | 3/31/2025<br>11:26:03 AM | MMDadoda | 4/3/2025<br>8:08:00 AM | Peak Integrated by Software incorrectly |
| Q1669-05    | VL042197.D | Propene                | SAM | 3/31/2025<br>11:26:03 AM | MMDadoda | 4/3/2025<br>8:08:00 AM | Peak Integrated by Software incorrectly |
| Q1669-05    | VL042197.D | Tetrachloroethene      | SAM | 3/31/2025                | MMDadoda | 4/3/2025               | Peak Integrated                         |

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|          |            |                        |     | 11:26:03 AM           |          | 8:08:00 AM          | d by Software incorrectl y               |
| Q1669-05 | VL042197.D | Tetrahydrofuran        | SAM | 3/31/2025 11:26:03 AM | MMDadoda | 4/3/2025 8:08:00 AM | Peak Integrated by Software incorrectl y |
| Q1669-07 | VL042198.D | 2,2,4-Trimethylpentane | SAM | 3/31/2025 11:25:25 AM | MMDadoda | 4/3/2025 8:08:04 AM | Peak Integrated by Software incorrectl y |
| Q1669-07 | VL042198.D | Carbon Tetrachloride   | SAM | 3/31/2025 11:25:25 AM | MMDadoda | 4/3/2025 8:08:04 AM | Peak Integrated by Software incorrectl y |
| Q1669-07 | VL042198.D | Cyclohexane            | SAM | 3/31/2025 11:25:25 AM | MMDadoda | 4/3/2025 8:08:04 AM | Peak Integrated by Software incorrectl y |
| Q1669-07 | VL042198.D | Heptane                | SAM | 3/31/2025 11:25:25 AM | MMDadoda | 4/3/2025 8:08:04 AM | Peak Integrated by Software incorrectl y |
| Q1669-07 | VL042198.D | n-propylbenzene        | SAM | 3/31/2025 11:25:25 AM | MMDadoda | 4/3/2025 8:08:04 AM | Peak Integrated by Software incorrectl y |
| Q1669-07 | VL042198.D | Trichloroethene        | SAM | 3/31/2025 11:25:25 AM | MMDadoda | 4/3/2025 8:08:04 AM | Peak Integrated by Software incorrectl y |
| Q1669-08 | VL042199.D | Carbon Tetrachloride   | SAM | 3/31/2025 11:25:20 AM | MMDadoda | 4/3/2025 8:08:09 AM | Peak Integrated by Software incorrectl y |
| Q1669-08 | VL042199.D | Chlorobenzene          | SAM | 3/31/2025 11:25:20 AM | MMDadoda | 4/3/2025 8:08:09 AM | Peak Integrated by Software              |

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|          |            |                       |     |                          |          |                        | incorrectly                             |
| Q1669-08 | VL042199.D | Chlorodifluoromethane | SAM | 3/31/2025<br>11:25:20 AM | MMDadoda | 4/3/2025<br>8:08:09 AM | Peak Integrated by Software incorrectly |
| Q1669-08 | VL042199.D | Heptane               | SAM | 3/31/2025<br>11:25:20 AM | MMDadoda | 4/3/2025<br>8:08:09 AM | Peak Integrated by Software incorrectly |
| Q1669-08 | VL042199.D | m/p-Xylene            | SAM | 3/31/2025<br>11:25:20 AM | MMDadoda | 4/3/2025<br>8:08:09 AM | Peak Integrated by Software incorrectly |
| Q1669-08 | VL042199.D | Propene               | SAM | 3/31/2025<br>11:25:20 AM | MMDadoda | 4/3/2025<br>8:08:09 AM | Peak Integrated by Software incorrectly |

### Manual Integration Report

|          |          |            |         |
|----------|----------|------------|---------|
| Sequence | vl033125 | Instrument | MSVOA_I |
|----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter             | Review By | Review On              | Supervised By | Supervised On          | Reason                                  |
|-------------|------------|-----------------------|-----------|------------------------|---------------|------------------------|-----------------------------------------|
| VSTDCCC010  | VL042201.D | 1,1,2-Trichloroethane | SAM       | 4/1/2025<br>7:30:55 AM | MMDadoda      | 4/1/2025<br>1:19:08 PM | Peak Integrated by Software incorrectly |
| VSTDCCC010  | VL042201.D | 1,4-Dioxane           | SAM       | 4/1/2025<br>7:30:55 AM | MMDadoda      | 4/1/2025<br>1:19:08 PM | Peak Integrated by Software incorrectly |
| VSTDCCC010  | VL042201.D | m/p-Xylene            | SAM       | 4/1/2025<br>7:30:55 AM | MMDadoda      | 4/1/2025<br>1:19:08 PM | Peak Integrated by Software incorrectly |
| VL0331ABS01 | VL042203.D | m/p-Xylene            | SAM       | 4/1/2025               | MMDadoda      | 4/1/2025<br>1:19:10 PM | Peak Integrate                          |

|             |            |                       |     |                     |          |                     |                                          |
|-------------|------------|-----------------------|-----|---------------------|----------|---------------------|------------------------------------------|
|             |            |                       |     | 7:31:07 AM          |          |                     | d by Software incorrectl y               |
| Q1669-06    | VL042204.D | 4-Methyl-2-Pentanone  | SAM | 4/1/2025 7:47:12 AM | MMDadoda | 4/1/2025 1:19:11 PM | Peak Integrated by Software incorrectl y |
| Q1669-06    | VL042204.D | Trichloroethene       | SAM | 4/1/2025 7:47:12 AM | MMDadoda | 4/1/2025 1:19:11 PM | Peak Integrated by Software incorrectl y |
| Q1669-06DL  | VL042205.D | 4-Methyl-2-Pentanone  | SAM | 4/1/2025 7:47:17 AM | MMDadoda | 4/1/2025 1:19:13 PM | Peak Integrated by Software incorrectl y |
| Q1669-06DL  | VL042205.D | Heptane               | SAM | 4/1/2025 7:47:17 AM | MMDadoda | 4/1/2025 1:19:13 PM | Peak Integrated by Software incorrectl y |
| Q1669-06DL  | VL042205.D | Tetrahydrofuran       | SAM | 4/1/2025 7:47:17 AM | MMDadoda | 4/1/2025 1:19:13 PM | Peak Integrated by Software incorrectl y |
| Q1669-06DUP | VL042206.D | 4-Methyl-2-Pentanone  | SAM | 4/1/2025 7:31:12 AM | MMDadoda | 4/1/2025 1:19:14 PM | Peak Integrated by Software incorrectl y |
| Q1669-06DUP | VL042206.D | Naphthalene,2-methyl- | SAM | 4/1/2025 7:31:12 AM | MMDadoda | 4/1/2025 1:19:14 PM | Peak Integrated by Software incorrectl y |
| Q1669-06DUP | VL042206.D | Tetrachloroethene     | SAM | 4/1/2025 7:31:12 AM | MMDadoda | 4/1/2025 1:19:14 PM | Peak Integrated by Software incorrectl y |



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

**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\_\_\_\_\_

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 2:48 pm, Jun 16, 2025*

## DATA REPORTING QUALIFIERS- ORGANIC

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

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value     | If the result is a value greater than or equal to the detection limit, report the value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>U</b>  | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.                                                                                                                                                                                                                                                                                      |
| <b>ND</b> | Indicates the analyte was analyzed for, but not detected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>J</b>  | Indicates an estimated value. This flag is used: <ol style="list-style-type: none"> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.</li> </ol> |
| <b>B</b>  | Indicates the analyte was found in the blank as well as the sample report as “12 B”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>E</b>  | Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>D</b>  | This flag identifies all compounds identified in an analysis at a secondary dilution factor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>P</b>  | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>N</b>  | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.                                                                                                                                                                                                                                                                       |
| <b>A</b>  | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Q</b>  | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q1669

Completed

For thorough review, the report must have the following:

#### GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 06/13/2025

## LAB CHRONICLE

|                 |                  |                   |                                                 |
|-----------------|------------------|-------------------|-------------------------------------------------|
| <b>OrderID:</b> | Q1669            | <b>OrderDate:</b> | 3/27/2025 2:02:00 PM                            |
| <b>Client:</b>  | Woodard & Curran | <b>Project:</b>   | US EPA Riverside Industrial Park Superfund Site |
| <b>Contact:</b> | Bryan Maurer     | <b>Location:</b>  | Air Lab                                         |

| LabID      | ClientID                 | Matrix | Test  | Method | Sample Date | Prep Date | Anal Date | Received |
|------------|--------------------------|--------|-------|--------|-------------|-----------|-----------|----------|
| Q1669-01   | IA-B9-3-3262025          | Air    | TO-15 | TO-15  | 03/27/25    |           | 03/27/25  | 03/27/25 |
| Q1669-01DL | IA-B9-3-3262025DL        | Air    | TO-15 | TO-15  | 03/27/25    |           | 03/28/25  | 03/27/25 |
| Q1669-02   | IA-B9-2-3262025          | Air    | TO-15 | TO-15  | 03/27/25    |           | 03/27/25  | 03/27/25 |
| Q1669-03   | IA-B9-1-3262025          | Air    | TO-15 | TO-15  | 03/27/25    |           | 03/27/25  | 03/27/25 |
| Q1669-04   | AA-1-3262025             | Air    | TO-15 | TO-15  | 03/27/25    |           | 03/27/25  | 03/27/25 |
| Q1669-05   | SSSG-B16-3-3262025       | Air    | TO-15 | TO-15  | 03/26/25    |           | 03/28/25  | 03/27/25 |
| Q1669-06   | SSSG-DUP-1-3262025       | Air    | TO-15 | TO-15  | 03/26/25    |           | 03/31/25  | 03/27/25 |
| Q1669-06DL | SSSG-DUP-1-3262025<br>DL | Air    | TO-15 | TO-15  | 03/26/25    |           | 03/31/25  | 03/27/25 |
| Q1669-07   | SSSG-B16-1-3262025       | Air    | TO-15 | TO-15  | 03/26/25    |           | 03/28/25  | 03/27/25 |
| Q1669-07DL | SSSG-B16-1-3262025<br>DL | Air    | TO-15 | TO-15  | 03/26/25    |           | 03/27/25  | 03/27/25 |
| Q1669-08   | SSSG-B16-2-3262025       | Air    | TO-15 | TO-15  | 03/26/25    |           | 03/28/25  | 03/27/25 |



LAB CHRONICLE

|          |              |     |       |       |          |          |          |
|----------|--------------|-----|-------|-------|----------|----------|----------|
| Q1669-09 | AA-2-3262025 | Air | TO-15 | TO-15 | 03/26/25 | 03/27/25 | 03/27/25 |
|----------|--------------|-----|-------|-------|----------|----------|----------|

### Hit Summary Sheet SW-846

SDG No.: Q1669  
Client: Woodard & Curran

| Sample ID            | Client ID         | Matrix | Parameter               | Concentration | C  | MDL   | RDL  | Units |
|----------------------|-------------------|--------|-------------------------|---------------|----|-------|------|-------|
| Client ID:           | IA-B9-3-3262025   |        |                         |               |    |       |      |       |
| Q1669-01             | IA-B9-3-3262025   | Air    | Dichlorodifluoromethane | 1.98          | J  | 1.04  | 2.47 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | Chloromethane           | 0.76          | J  | 0.21  | 1.03 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | Trichlorofluoromethane  | 1.24          | J  | 0.90  | 2.81 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | tert-Butyl alcohol      | 1.52          |    | 0.58  | 1.52 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | Heptane                 | 1.56          | J  | 0.45  | 2.05 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | Acetone                 | 82.4          | E  | 0.57  | 1.19 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | Methylene Chloride      | 1.25          | J  | 0.66  | 1.74 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | 2-Butanone              | 2.68          |    | 0.35  | 1.47 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | Carbon Tetrachloride    | 0.38          |    | 0.060 | 0.19 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | 2,2,4-Trimethylpentane  | 1.26          | J  | 0.47  | 2.34 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | Benzene                 | 2.04          |    | 0.29  | 1.60 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | 4-Methyl-2-Pentanone    | 1.48          | J  | 0.37  | 2.05 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | Toluene                 | 8.67          |    | 0.41  | 1.88 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | Ethyl Benzene           | 1.35          | J  | 0.52  | 2.17 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | m/p-Xylene              | 4.78          |    | 0.91  | 4.34 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | o-Xylene                | 2.22          |    | 0.52  | 2.17 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | Styrene                 | 0.51          | J  | 0.47  | 2.13 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | 1,2,4-Trimethylbenzene  | 2.51          |    | 0.39  | 2.46 | ug/m3 |
| Q1669-01             | IA-B9-3-3262025   | Air    | Hexane                  | 6.70          |    | 0.39  | 1.76 | ug/m3 |
| Total Voc :          |                   |        |                         | 125           |    |       |      |       |
| Q1669-01             | IA-B9-3-3262025   | Air    | unknown1.774            | * 1.40        | J  | 0     | 0    | ppbv  |
| Q1669-01             | IA-B9-3-3262025   | Air    | Pentane, 3-methyl-      | * 1.60        | J  | 0     | 0    | ppbv  |
| Q1669-01             | IA-B9-3-3262025   | Air    | Pentane, 2-methyl-      | * 2.50        | J  | 0     | 0    | ppbv  |
| Q1669-01             | IA-B9-3-3262025   | Air    | Pentane                 | * 1.80        | J  | 0     | 0    | ppbv  |
| Q1669-01             | IA-B9-3-3262025   | Air    | 1-Propene, 2-methyl-    | * 3.30        | J  | 0     | 0    | ppbv  |
| Q1669-01             | IA-B9-3-3262025   | Air    | Chlorodifluoromethane   | * 0.27        | J  | 0.090 | 0.50 | ppbv  |
| Q1669-01             | IA-B9-3-3262025   | Air    | Propene                 | * 0.79        | J  | 0.15  | 0.50 | ppbv  |
| Q1669-01             | IA-B9-3-3262025   | Air    | n-propylbenzene         | * 0.10        | J  | 0.080 | 0.50 | ppbv  |
| Total Tics :         |                   |        |                         | 11.8          |    |       |      |       |
| Total Concentration: |                   |        |                         | 137           |    |       |      |       |
| Client ID:           | IA-B9-3-3262025DL |        |                         |               |    |       |      |       |
| Q1669-01DL           | IA-B9-3-3262025DL | Air    | Acetone                 | 88.1          | D  | 2.85  | 5.94 | ug/m3 |
| Q1669-01DL           | IA-B9-3-3262025DL | Air    | Methylene Chloride      | 3.82          | JD | 3.30  | 8.69 | ug/m3 |
| Q1669-01DL           | IA-B9-3-3262025DL | Air    | 2-Butanone              | 2.80          | JD | 1.77  | 7.37 | ug/m3 |
| Q1669-01DL           | IA-B9-3-3262025DL | Air    | Benzene                 | 1.82          | JD | 1.41  | 7.99 | ug/m3 |
| Q1669-01DL           | IA-B9-3-3262025DL | Air    | Toluene                 | 7.91          | JD | 2.07  | 9.42 | ug/m3 |

### Hit Summary Sheet SW-846

SDG No.: Q1669

Client: Woodard & Curran

| Sample ID         | Client ID              | Matrix | Parameter                   | Concentration | C    | MDL   | RDL  | Units |
|-------------------|------------------------|--------|-----------------------------|---------------|------|-------|------|-------|
| Q1669-01DL        | IA-B9-3-3262025        | Air    | Hexane                      | 5.64          | JD   | 1.94  | 8.81 | ug/m3 |
|                   |                        |        | <b>Total Voc :</b>          |               | 110  |       |      |       |
|                   |                        |        | <b>Total Concentration:</b> |               | 110  |       |      |       |
| <b>Client ID:</b> | <b>IA-B9-2-3262025</b> |        |                             |               |      |       |      |       |
| Q1669-02          | IA-B9-2-3262025        | Air    | Dichlorodifluoromethane     | 2.03          | J    | 1.04  | 2.47 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | Chloromethane               | 0.45          | J    | 0.21  | 1.03 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | Trichlorofluoromethane      | 1.12          | J    | 0.90  | 2.81 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | tert-Butyl alcohol          | 1.15          | J    | 0.58  | 1.52 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | Heptane                     | 2.01          | J    | 0.45  | 2.05 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | Acetone                     | 5.70          |      | 0.57  | 1.19 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | Methylene Chloride          | 1.22          | J    | 0.66  | 1.74 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | Cyclohexane                 | 0.76          | J    | 0.76  | 1.72 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | 2-Butanone                  | 1.24          | J    | 0.35  | 1.47 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | Carbon Tetrachloride        | 0.44          |      | 0.060 | 0.19 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | Chloroform                  | 0.59          | J    | 0.39  | 2.44 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | 2,2,4-Trimethylpentane      | 1.73          | J    | 0.47  | 2.34 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | Benzene                     | 2.14          |      | 0.29  | 1.60 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | 4-Methyl-2-Pentanone        | 1.76          | J    | 0.37  | 2.05 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | Toluene                     | 8.67          |      | 0.41  | 1.88 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | Ethyl Benzene               | 1.69          | J    | 0.52  | 2.17 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | m/p-Xylene                  | 6.08          |      | 0.91  | 4.34 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | o-Xylene                    | 2.82          |      | 0.52  | 2.17 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | Styrene                     | 0.55          | J    | 0.47  | 2.13 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | 1,3,5-Trimethylbenzene      | 0.88          | J    | 0.54  | 2.46 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | 1,2,4-Trimethylbenzene      | 2.65          |      | 0.39  | 2.46 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | 4-Ethyltoluene              | 0.98          | J    | 0.59  | 2.46 | ug/m3 |
| Q1669-02          | IA-B9-2-3262025        | Air    | Hexane                      | 8.11          |      | 0.39  | 1.76 | ug/m3 |
|                   |                        |        | <b>Total Voc :</b>          |               | 54.8 |       |      |       |
| Q1669-02          | IA-B9-2-3262025        | Air    | Pentane, 3-methyl-          | * 1.60        | J    | 0     | 0    | ppbv  |
| Q1669-02          | IA-B9-2-3262025        | Air    | Cyclopentane, methyl-       | * 1.00        | J    | 0     | 0    | ppbv  |
| Q1669-02          | IA-B9-2-3262025        | Air    | Butane                      | * 1.10        | J    | 0     | 0    | ppbv  |
| Q1669-02          | IA-B9-2-3262025        | Air    | Pentane, 2-methyl-          | * 3.10        | J    | 0     | 0    | ppbv  |
| Q1669-02          | IA-B9-2-3262025        | Air    | Pentane                     | * 1.70        | J    | 0     | 0    | ppbv  |
| Q1669-02          | IA-B9-2-3262025        | Air    | Chlorodifluoromethane       | * 0.24        | J    | 0.090 | 0.50 | ppbv  |
| Q1669-02          | IA-B9-2-3262025        | Air    | Propene                     | * 1.60        | J    | 0.15  | 0.50 | ppbv  |
|                   |                        |        | <b>Total Tics :</b>         |               | 10.3 |       |      |       |
|                   |                        |        | <b>Total Concentration:</b> |               | 65.1 |       |      |       |

### Hit Summary Sheet SW-846

SDG No.: Q1669

Client: Woodard & Curran

| Sample ID                         | Client ID       | Matrix | Parameter               | Concentration | C | MDL   | RDL  | Units |
|-----------------------------------|-----------------|--------|-------------------------|---------------|---|-------|------|-------|
| <b>Client ID: IA-B9-1-3262025</b> |                 |        |                         |               |   |       |      |       |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Dichlorodifluoromethane | 1.88          | J | 1.04  | 2.47 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Chloromethane           | 0.52          | J | 0.21  | 1.03 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Trichlorofluoromethane  | 1.18          | J | 0.90  | 2.81 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | tert-Butyl alcohol      | 1.27          | J | 0.58  | 1.52 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Heptane                 | 2.09          |   | 0.45  | 2.05 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Acetone                 | 7.60          |   | 0.57  | 1.19 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Methylene Chloride      | 2.81          |   | 0.66  | 1.74 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Cyclohexane             | 0.96          | J | 0.76  | 1.72 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | 2-Butanone              | 1.59          |   | 0.35  | 1.47 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Carbon Tetrachloride    | 0.44          |   | 0.060 | 0.19 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | 2,2,4-Trimethylpentane  | 1.45          | J | 0.47  | 2.34 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Benzene                 | 2.40          |   | 0.29  | 1.60 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | 4-Methyl-2-Pentanone    | 3.52          |   | 0.37  | 2.05 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Toluene                 | 9.80          |   | 0.41  | 1.88 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Ethyl Benzene           | 1.65          | J | 0.52  | 2.17 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | m/p-Xylene              | 6.08          |   | 0.91  | 4.34 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | o-Xylene                | 2.48          |   | 0.52  | 2.17 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Styrene                 | 10.6          |   | 0.47  | 2.13 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | 1,3,5-Trimethylbenzene  | 0.69          | J | 0.54  | 2.46 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | 1,2,4-Trimethylbenzene  | 2.06          | J | 0.39  | 2.46 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | 4-Ethyltoluene          | 0.64          | J | 0.59  | 2.46 | ug/m3 |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Hexane                  | 7.75          |   | 0.39  | 1.76 | ug/m3 |
| <b>Total Voc :</b>                |                 |        |                         | 69.5          |   |       |      |       |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Pentane, 3-methyl-      | * 1.80        | J | 0     | 0    | ppbv  |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Cyclopentane, methyl-   | * 1.40        | J | 0     | 0    | ppbv  |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Butane                  | * 1.10        | J | 0     | 0    | ppbv  |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Pentane, 2-methyl-      | * 3.10        | J | 0     | 0    | ppbv  |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Pentane                 | * 2.20        | J | 0     | 0    | ppbv  |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Chlorodifluoromethane   | * 0.35        | J | 0.090 | 0.50 | ppbv  |
| Q1669-03                          | IA-B9-1-3262025 | Air    | Propene                 | * 0.62        | J | 0.15  | 0.50 | ppbv  |
| Q1669-03                          | IA-B9-1-3262025 | Air    | n-propylbenzene         | * 0.11        | J | 0.080 | 0.50 | ppbv  |
| <b>Total Tics :</b>               |                 |        |                         | 10.7          |   |       |      |       |
| <b>Total Concentration:</b>       |                 |        |                         | 80.2          |   |       |      |       |
| <b>Client ID: AA-1-3262025</b>    |                 |        |                         |               |   |       |      |       |
| Q1669-04                          | AA-1-3262025    | Air    | Dichlorodifluoromethane | 1.98          | J | 1.04  | 2.47 | ug/m3 |
| Q1669-04                          | AA-1-3262025    | Air    | Chloromethane           | 0.97          | J | 0.21  | 1.03 | ug/m3 |

### Hit Summary Sheet SW-846

SDG No.: Q1669

Client: Woodard & Curran

| Sample ID            | Client ID          | Matrix | Parameter               | Concentration | C | MDL   | RDL  | Units |
|----------------------|--------------------|--------|-------------------------|---------------|---|-------|------|-------|
| Q1669-04             | AA-1-3262025       | Air    | Trichlorofluoromethane  | 1.24          | J | 0.90  | 2.81 | ug/m3 |
| Q1669-04             | AA-1-3262025       | Air    | Acetone                 | 7.60          |   | 0.57  | 1.19 | ug/m3 |
| Q1669-04             | AA-1-3262025       | Air    | Methylene Chloride      | 2.71          |   | 0.66  | 1.74 | ug/m3 |
| Q1669-04             | AA-1-3262025       | Air    | 2-Butanone              | 0.71          | J | 0.35  | 1.47 | ug/m3 |
| Q1669-04             | AA-1-3262025       | Air    | Carbon Tetrachloride    | 0.44          |   | 0.060 | 0.19 | ug/m3 |
| Q1669-04             | AA-1-3262025       | Air    | Benzene                 | 0.99          | J | 0.29  | 1.60 | ug/m3 |
| Q1669-04             | AA-1-3262025       | Air    | Toluene                 | 1.17          | J | 0.41  | 1.88 | ug/m3 |
| Q1669-04             | AA-1-3262025       | Air    | Hexane                  | 5.99          |   | 0.39  | 1.76 | ug/m3 |
| Total Voc :          |                    |        |                         | 23.8          |   |       |      |       |
| Q1669-04             | AA-1-3262025       | Air    | Pentane, 2-methyl-      | * 1.20        | J | 0     | 0    | ppbv  |
| Q1669-04             | AA-1-3262025       | Air    | Chlorodifluoromethane   | * 0.26        | J | 0.090 | 0.50 | ppbv  |
| Q1669-04             | AA-1-3262025       | Air    | Propene                 | * 0.42        | J | 0.15  | 0.50 | ppbv  |
| Total Tics :         |                    |        |                         | 1.88          |   |       |      |       |
| Total Concentration: |                    |        |                         | 25.7          |   |       |      |       |
| Client ID:           | SSSG-B16-3-3262025 |        |                         |               |   |       |      |       |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Dichlorodifluoromethane | 2.13          | J | 1.04  | 2.47 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Chloromethane           | 0.74          | J | 0.21  | 1.03 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Tetrahydrofuran         | 1.21          | J | 0.38  | 1.47 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Trichlorofluoromethane  | 1.29          | J | 0.90  | 2.81 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Heptane                 | 1.64          | J | 0.45  | 2.05 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Acetone                 | 14.7          |   | 0.57  | 1.19 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Methylene Chloride      | 2.57          |   | 0.66  | 1.74 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Cyclohexane             | 1.38          | J | 0.76  | 1.72 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | 2-Butanone              | 8.55          |   | 0.35  | 1.47 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Carbon Tetrachloride    | 0.44          |   | 0.060 | 0.19 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Chloroform              | 2.93          |   | 0.39  | 2.44 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | 2,2,4-Trimethylpentane  | 1.82          | J | 0.47  | 2.34 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Benzene                 | 1.76          |   | 0.29  | 1.60 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Toluene                 | 7.91          |   | 0.41  | 1.88 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Tetrachloroethene       | 0.27          |   | 0.14  | 0.20 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Ethyl Benzene           | 1.17          | J | 0.52  | 2.17 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | m/p-Xylene              | 4.34          |   | 0.91  | 4.34 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | o-Xylene                | 1.56          | J | 0.52  | 2.17 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Styrene                 | 1.53          | J | 0.47  | 2.13 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | 1,2,4-Trimethylbenzene  | 1.28          | J | 0.39  | 2.46 | ug/m3 |
| Q1669-05             | SSSG-B16-3-32620   | Air    | Hexane                  | 6.70          |   | 0.39  | 1.76 | ug/m3 |
| Total Voc :          |                    |        |                         | 66.0          |   |       |      |       |

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

**SDG No.:** Q1669

**Client:** Woodard & Curran

| Sample ID                   | Client ID                 | Matrix | Parameter               | Concentration | C    | MDL   | RDL  | Units |
|-----------------------------|---------------------------|--------|-------------------------|---------------|------|-------|------|-------|
| Q1669-05                    | SSSG-B16-3-32620          | Air    | unknown2.441            | * 1.20        | J    | 0     | 0    | ppbv  |
| Q1669-05                    | SSSG-B16-3-32620          | Air    | Pentane, 3-methyl-      | * 2.00        | J    | 0     | 0    | ppbv  |
| Q1669-05                    | SSSG-B16-3-32620          | Air    | Cyclopentane, methyl-   | * 1.60        | J    | 0     | 0    | ppbv  |
| Q1669-05                    | SSSG-B16-3-32620          | Air    | Butane                  | * 14.6        | J    | 0     | 0    | ppbv  |
| Q1669-05                    | SSSG-B16-3-32620          | Air    | Pentane, 2-methyl-      | * 3.90        | J    | 0     | 0    | ppbv  |
| Q1669-05                    | SSSG-B16-3-32620          | Air    | Pentane                 | * 5.70        | J    | 0     | 0    | ppbv  |
| Q1669-05                    | SSSG-B16-3-32620          | Air    | Decane                  | * 1.10        | J    | 0     | 0    | ppbv  |
| Q1669-05                    | SSSG-B16-3-32620          | Air    | Chlorodifluoromethane   | * 0.28        | J    | 0.090 | 0.50 | ppbv  |
| Q1669-05                    | SSSG-B16-3-32620          | Air    | Propene                 | * 0.63        | J    | 0.15  | 0.50 | ppbv  |
| <b>Total Tics :</b>         |                           |        |                         |               | 31.0 |       |      |       |
| <b>Total Concentration:</b> |                           |        |                         |               | 97.0 |       |      |       |
| <b>Client ID:</b>           | <b>SSSG-DUP-1-3262025</b> |        |                         |               |      |       |      |       |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Dichlorodifluoromethane | 2.27          | J    | 1.04  | 2.47 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Chloromethane           | 0.89          | J    | 0.21  | 1.03 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Tetrahydrofuran         | 5.90          |      | 0.38  | 1.47 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Trichlorofluoromethane  | 1.12          | J    | 0.90  | 2.81 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Heptane                 | 6.56          |      | 0.45  | 2.05 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Acetone                 | 57.0          | E    | 0.57  | 1.19 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Methylene Chloride      | 1.77          |      | 0.66  | 1.74 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Cyclohexane             | 5.16          |      | 0.76  | 1.72 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | 2-Butanone              | 18.3          |      | 0.35  | 1.47 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Carbon Tetrachloride    | 0.44          |      | 0.060 | 0.19 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | 2,2,4-Trimethylpentane  | 10.7          |      | 0.47  | 2.34 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Benzene                 | 17.9          |      | 0.29  | 1.60 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | 4-Methyl-2-Pentanone    | 1.64          | J    | 0.37  | 2.05 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Toluene                 | 36.5          |      | 0.41  | 1.88 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Ethyl Benzene           | 5.65          |      | 0.52  | 2.17 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | m/p-Xylene              | 22.1          |      | 0.91  | 4.34 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | o-Xylene                | 8.25          |      | 0.52  | 2.17 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Styrene                 | 5.96          |      | 0.47  | 2.13 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | 1,3,5-Trimethylbenzene  | 2.11          | J    | 0.54  | 2.46 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | 1,2,4-Trimethylbenzene  | 6.88          |      | 0.39  | 2.46 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Naphthalene             | 2.25          |      | 0.42  | 0.52 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | 4-Ethyltoluene          | 2.16          | J    | 0.59  | 2.46 | ug/m3 |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Hexane                  | 15.5          |      | 0.39  | 1.76 | ug/m3 |
| <b>Total Voc :</b>          |                           |        |                         |               | 237  |       |      |       |
| Q1669-06                    | SSSG-DUP-1-32620          | Air    | Butane, 2,3-dimethyl-   | * 3.30        | J    | 0     | 0    | ppbv  |

### Hit Summary Sheet SW-846

SDG No.: Q1669

Client: Woodard & Curran

| Sample ID            | Client ID            | Matrix | Parameter               | Concentration | C  | MDL   | RDL  | Units |
|----------------------|----------------------|--------|-------------------------|---------------|----|-------|------|-------|
| Q1669-06             | SSSG-DUP-1-3262      | Air    | Pentane, 3-methyl-      | * 4.90        | J  | 0     | 0    | ppbv  |
| Q1669-06             | SSSG-DUP-1-3262      | Air    | Cyclopentane, methyl-   | * 4.30        | J  | 0     | 0    | ppbv  |
| Q1669-06             | SSSG-DUP-1-3262      | Air    | Butane                  | * 8.30        | J  | 0     | 0    | ppbv  |
| Q1669-06             | SSSG-DUP-1-3262      | Air    | Pentane, 2-methyl-      | * 8.90        | J  | 0     | 0    | ppbv  |
| Q1669-06             | SSSG-DUP-1-3262      | Air    | Cyclohexane, methyl-    | * 2.50        | J  | 0     | 0    | ppbv  |
| Q1669-06             | SSSG-DUP-1-3262      | Air    | Cyclohexanone           | * 2.20        | J  | 0     | 0    | ppbv  |
| Q1669-06             | SSSG-DUP-1-3262      | Air    | Pentane                 | * 8.80        | J  | 0     | 0    | ppbv  |
| Q1669-06             | SSSG-DUP-1-3262      | Air    | 1-Propene, 2-methyl-    | * 6.80        | J  | 0     | 0    | ppbv  |
| Q1669-06             | SSSG-DUP-1-3262      | Air    | Chlorodifluoromethane   | * 0.31        | J  | 0.090 | 0.50 | ppbv  |
| Q1669-06             | SSSG-DUP-1-3262      | Air    | Propene                 | * 17.2        | J  | 0.15  | 0.50 | ppbv  |
| Q1669-06             | SSSG-DUP-1-3262      | Air    | n-propylbenzene         | * 0.23        | J  | 0.080 | 0.50 | ppbv  |
| Total Tics :         |                      |        |                         | 67.7          |    |       |      |       |
| Total Concentration: |                      |        |                         | 305           |    |       |      |       |
| Client ID:           | SSSG-DUP-1-3262025DL |        |                         |               |    |       |      |       |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | Chloromethane           | 1.12          | JD | 0.81  | 4.13 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | Tetrahydrofuran         | 6.19          | D  | 1.53  | 5.90 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | Heptane                 | 6.97          | JD | 1.80  | 8.20 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | Acetone                 | 53.9          | D  | 2.28  | 4.75 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | Cyclohexane             | 5.16          | JD | 3.03  | 6.88 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | 2-Butanone              | 18.9          | D  | 1.42  | 5.90 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | 2,2,4-Trimethylpentane  | 10.3          | D  | 1.87  | 9.34 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | Benzene                 | 18.2          | D  | 1.12  | 6.39 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | Toluene                 | 35.8          | D  | 1.66  | 7.54 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | Ethyl Benzene           | 5.65          | JD | 2.08  | 8.69 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | m/p-Xylene              | 20.9          | D  | 3.65  | 17.4 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | o-Xylene                | 7.38          | JD | 2.08  | 8.69 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | Styrene                 | 5.11          | JD | 1.87  | 8.52 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | 1,2,4-Trimethylbenzene  | 5.41          | JD | 1.52  | 9.83 | ug/m3 |
| Q1669-06DL           | SSSG-DUP-1-3262      | Air    | Hexane                  | 15.5          | D  | 1.55  | 7.05 | ug/m3 |
| Total Voc :          |                      |        |                         | 216           |    |       |      |       |
| Total Concentration: |                      |        |                         | 216           |    |       |      |       |
| Client ID:           | SSSG-B16-1-3262025   |        |                         |               |    |       |      |       |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Dichlorodifluoromethane | 2.57          |    | 1.04  | 2.47 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Chloromethane           | 0.29          | J  | 0.21  | 1.03 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Tetrahydrofuran         | 1.39          | J  | 0.38  | 1.47 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Trichlorofluoromethane  | 1.12          | J  | 0.90  | 2.81 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | tert-Butyl alcohol      | 1.91          |    | 0.58  | 1.52 | ug/m3 |



### Hit Summary Sheet SW-846

SDG No.: Q1669

Client: Woodard & Curran

| Sample ID            | Client ID            | Matrix | Parameter              | Concentration | C    | MDL   | RDL  | Units |
|----------------------|----------------------|--------|------------------------|---------------|------|-------|------|-------|
| Q1669-07             | SSSG-B16-1-32620     | Air    | Heptane                | 1.31          | J    | 0.45  | 2.05 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Acetone                | 84.1          | E    | 0.57  | 1.19 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Methylene Chloride     | 5.21          |      | 0.66  | 1.74 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | 2-Butanone             | 6.78          |      | 0.35  | 1.47 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Carbon Tetrachloride   | 0.25          |      | 0.060 | 0.19 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Chloroform             | 0.54          | J    | 0.39  | 2.44 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | 1,1,1-Trichloroethane  | 0.27          |      | 0.050 | 0.16 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | 2,2,4-Trimethylpentane | 1.12          | J    | 0.47  | 2.34 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Benzene                | 1.44          | J    | 0.29  | 1.60 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Trichloroethene        | 0.43          |      | 0.11  | 0.16 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | 4-Methyl-2-Pentanone   | 6.56          |      | 0.37  | 2.05 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Toluene                | 23.0          |      | 0.41  | 1.88 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Tetrachloroethene      | 1.02          |      | 0.14  | 0.20 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Ethyl Benzene          | 2.35          |      | 0.52  | 2.17 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | m/p-Xylene             | 8.69          |      | 0.91  | 4.34 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | o-Xylene               | 3.74          |      | 0.52  | 2.17 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Styrene                | 3.32          |      | 0.47  | 2.13 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | 1,3,5-Trimethylbenzene | 0.98          | J    | 0.54  | 2.46 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | 1,2,4-Trimethylbenzene | 2.41          | J    | 0.39  | 2.46 | ug/m3 |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Hexane                 | 3.88          |      | 0.39  | 1.76 | ug/m3 |
| Total Voc :          |                      |        |                        |               | 165  |       |      |       |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Butane                 | * 1.20        | J    | 0     | 0    | ppbv  |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Pentane, 2-methyl-     | * 1.30        | J    | 0     | 0    | ppbv  |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Pentane                | * 1.00        | J    | 0     | 0    | ppbv  |
| Q1669-07             | SSSG-B16-1-32620     | Air    | 1-Propene, 2-methyl-   | * 2.30        | J    | 0     | 0    | ppbv  |
| Q1669-07             | SSSG-B16-1-32620     | Air    | Propene                | * 0.88        | J    | 0.15  | 0.50 | ppbv  |
| Q1669-07             | SSSG-B16-1-32620     | Air    | n-propylbenzene        | * 0.15        | J    | 0.080 | 0.50 | ppbv  |
| Total Tics :         |                      |        |                        |               | 6.83 |       |      |       |
| Total Concentration: |                      |        |                        |               | 171  |       |      |       |
| Client ID:           | SSSG-B16-1-3262025DL |        |                        |               |      |       |      |       |
| Q1669-07DL           | SSSG-B16-1-32620     | Air    | Acetone                | 91.0          | D    | 5.70  | 11.9 | ug/m3 |
| Q1669-07DL           | SSSG-B16-1-32620     | Air    | Methylene Chloride     | 8.34          | JD   | 6.60  | 17.4 | ug/m3 |
| Q1669-07DL           | SSSG-B16-1-32620     | Air    | 2-Butanone             | 7.08          | JD   | 3.54  | 14.8 | ug/m3 |
| Q1669-07DL           | SSSG-B16-1-32620     | Air    | 4-Methyl-2-Pentanone   | 6.97          | JD   | 3.81  | 20.5 | ug/m3 |
| Q1669-07DL           | SSSG-B16-1-32620     | Air    | Toluene                | 21.5          | D    | 4.15  | 18.8 | ug/m3 |
| Total Voc :          |                      |        |                        |               | 135  |       |      |       |
| Total Concentration: |                      |        |                        |               | 135  |       |      |       |

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

**SDG No.:** Q1669

**Client:** Woodard & Curran

| Sample ID            | Client ID          | Matrix | Parameter               | Concentration | C | MDL   | RDL  | Units |
|----------------------|--------------------|--------|-------------------------|---------------|---|-------|------|-------|
| Client ID:           | SSSG-B16-2-3262025 |        |                         |               |   |       |      |       |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Dichlorodifluoromethane | 2.08          | J | 1.04  | 2.47 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Trichlorofluoromethane  | 1.01          | J | 0.90  | 2.81 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Heptane                 | 0.57          | J | 0.45  | 2.05 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Acetone                 | 25.6          |   | 0.57  | 1.19 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Methylene Chloride      | 2.29          |   | 0.66  | 1.74 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | 2-Butanone              | 1.86          |   | 0.35  | 1.47 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Carbon Tetrachloride    | 0.25          |   | 0.060 | 0.19 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Chloroform              | 6.35          |   | 0.39  | 2.44 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Benzene                 | 0.77          | J | 0.29  | 1.60 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | 4-Methyl-2-Pentanone    | 13.9          |   | 0.37  | 2.05 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Toluene                 | 10.9          |   | 0.41  | 1.88 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Tetrachloroethene       | 1.29          |   | 0.14  | 0.20 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Chlorobenzene           | 0.46          | J | 0.37  | 2.30 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Ethyl Benzene           | 1.09          | J | 0.52  | 2.17 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | m/p-Xylene              | 5.21          |   | 0.91  | 4.34 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | o-Xylene                | 1.95          | J | 0.52  | 2.17 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Styrene                 | 1.58          | J | 0.47  | 2.13 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | 1,3,5-Trimethylbenzene  | 0.69          | J | 0.54  | 2.46 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | 1,2,4-Trimethylbenzene  | 1.57          | J | 0.39  | 2.46 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | 4-Ethyltoluene          | 0.64          | J | 0.59  | 2.46 | ug/m3 |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Hexane                  | 1.97          |   | 0.39  | 1.76 | ug/m3 |
| Total Voc :          |                    |        |                         | 82.1          |   |       |      |       |
| Q1669-08             | SSSG-B16-2-32620   | Air    | unknown1.557            | * 1.30        | J | 0     | 0    | ppbv  |
| Q1669-08             | SSSG-B16-2-32620   | Air    | 2-Hexanol               | * 5.20        | J | 0     | 0    | ppbv  |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Undecane                | * 1.30        | J | 0     | 0    | ppbv  |
| Q1669-08             | SSSG-B16-2-32620   | Air    | 1-Iodo-2-methylnonane   | * 1.20        | J | 0     | 0    | ppbv  |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Chlorodifluoromethane   | * 0.21        | J | 0.090 | 0.50 | ppbv  |
| Q1669-08             | SSSG-B16-2-32620   | Air    | Propene                 | * 0.16        | J | 0.15  | 0.50 | ppbv  |
| Total Tics :         |                    |        |                         | 9.37          |   |       |      |       |
| Total Concentration: |                    |        |                         | 91.5          |   |       |      |       |
| Client ID:           | AA-2-3262025       |        |                         |               |   |       |      |       |
| Q1669-09             | AA-2-3262025       | Air    | Dichlorodifluoromethane | 2.23          | J | 1.04  | 2.47 | ug/m3 |
| Q1669-09             | AA-2-3262025       | Air    | Chloromethane           | 0.91          | J | 0.21  | 1.03 | ug/m3 |
| Q1669-09             | AA-2-3262025       | Air    | Trichlorofluoromethane  | 1.24          | J | 0.90  | 2.81 | ug/m3 |
| Q1669-09             | AA-2-3262025       | Air    | Acetone                 | 5.94          |   | 0.57  | 1.19 | ug/m3 |
| Q1669-09             | AA-2-3262025       | Air    | Methylene Chloride      | 24.3          |   | 0.66  | 1.74 | ug/m3 |

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

**SDG No.:** Q1669

**Client:** Woodard & Curran

| Sample ID                   | Client ID    | Matrix | Parameter              | Concentration | C | MDL   | RDL  | Units |
|-----------------------------|--------------|--------|------------------------|---------------|---|-------|------|-------|
| Q1669-09                    | AA-2-3262025 | Air    | 2-Butanone             | 0.53          | J | 0.35  | 1.47 | ug/m3 |
| Q1669-09                    | AA-2-3262025 | Air    | Carbon Tetrachloride   | 0.44          |   | 0.060 | 0.19 | ug/m3 |
| Q1669-09                    | AA-2-3262025 | Air    | Benzene                | 0.42          | J | 0.29  | 1.60 | ug/m3 |
| Q1669-09                    | AA-2-3262025 | Air    | Toluene                | 1.28          | J | 0.41  | 1.88 | ug/m3 |
| Q1669-09                    | AA-2-3262025 | Air    | 1,2,4-Trimethylbenzene | 1.43          | J | 0.39  | 2.46 | ug/m3 |
| Q1669-09                    | AA-2-3262025 | Air    | Hexane                 | 15.9          |   | 0.39  | 1.76 | ug/m3 |
| <b>Total Voc :</b>          |              |        |                        | <b>54.6</b>   |   |       |      |       |
| Q1669-09                    | AA-2-3262025 | Air    | Pentane, 3-methyl-     | * 1.20        | J | 0     | 0    | ppbv  |
| Q1669-09                    | AA-2-3262025 | Air    | Cyclopentane, methyl-  | * 1.40        | J | 0     | 0    | ppbv  |
| Q1669-09                    | AA-2-3262025 | Air    | Chlorodifluoromethane  | * 0.43        | J | 0.090 | 0.50 | ppbv  |
| Q1669-09                    | AA-2-3262025 | Air    | Propene                | * 0.29        | J | 0.15  | 0.50 | ppbv  |
| <b>Total Tics :</b>         |              |        |                        | <b>3.32</b>   |   |       |      |       |
| <b>Total Concentration:</b> |              |        |                        | <b>57.9</b>   |   |       |      |       |

**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/27/25

**Field Id Number :** IA-B9-3-3262025

**Analysis Date :** 03/27/25

**Laboratory Id Number :** Q1669-01

**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            | 0.4                    | J         | 1.98                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.37                   | J         | 0.76                      |              |            |
| 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            | 0.22                   | J         | 1.24                      |              |            |
| 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            | 0.5                    |           | 1.52                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 0.38                   | J         | 1.56                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.14                   | U         | 0.56                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 34.7                   | E         | 82.4                      |              |            |
| 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            | 0.36                   | J         | 1.25                      |              |            |
| 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            | 0.91                   |           | 2.68                      |              |            |
| 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            | 0.27                   | J         | 1.26                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.64                   |           | 2.04                      |              |            |
| 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            | 0.36                   | J         | 1.48                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 2.3                    |           | 8.67                      |              |            |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/27/25

**Field Id Number :** IA-B9-3-3262025

**Analysis Date :** 03/27/25

**Laboratory Id Number :** Q1669-01

**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   | 0.02 | U | 0.14 |  |  |
| Chlorobenzene             | 108-90-7    | 112.6   | 0.08 | U | 0.37 |  |  |
| Ethyl Benzene             | 100-41-4    | 106.2   | 0.31 | J | 1.35 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 1.1  |   | 4.78 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.51 |   | 2.22 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.12 | J | 0.51 |  |  |
| 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   | 0.51 |   | 2.51 |  |  |
| 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   | 1.9  |   | 6.7  |  |  |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/27/25

**Field Id Number :** IA-B9-3-3262025DL

**Analysis Date :** 03/28/25

**Laboratory Id Number :** Q1669-01DL

**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            | 1.1                    | UD        | 5.44                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.49                   | UD        | 1.01                      |              |            |
| Vinyl Chloride                 | 75-01-4    | 62.5             | 0.07                   | UD        | 0.18                      |              |            |
| Bromomethane                   | 74-83-9    | 94.94            | 0.7                    | UD        | 2.72                      |              |            |
| Chloroethane                   | 75-00-3    | 64.52            | 0.85                   | UD        | 2.24                      |              |            |
| Tetrahydrofuran                | 109-99-9   | 72.11            | 0.65                   | UD        | 1.92                      |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 0.8                    | UD        | 4.5                       |              |            |
| Dichlorotetrafluoroethane      | 76-14-2    | 170.9            | 0.44                   | UD        | 3.08                      |              |            |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.4            | 0.8                    | UD        | 6.13                      |              |            |
| tert-Butyl alcohol             | 75-65-0    | 74.12            | 0.95                   | UD        | 2.88                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 0.55                   | UD        | 2.25                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.7                    | UD        | 2.78                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 37.1                   | D         | 88.1                      |              |            |
| Carbon Disulfide               | 75-15-0    | 76.14            | 0.8                    | UD        | 2.49                      |              |            |
| Methyl tert-Butyl Ether        | 1634-04-4  | 88.15            | 0.6                    | UD        | 2.16                      |              |            |
| Methylene Chloride             | 75-09-2    | 84.94            | 1.1                    | JD        | 3.82                      |              |            |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.94            | 0.95                   | UD        | 3.77                      |              |            |
| 1,1-Dichloroethane             | 75-34-3    | 98.96            | 0.65                   | UD        | 2.63                      |              |            |
| Cyclohexane                    | 110-82-7   | 84.16            | 1.1                    | UD        | 3.79                      |              |            |
| 2-Butanone                     | 78-93-3    | 72.11            | 0.95                   | JD        | 2.8                       |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 0.06                   | UD        | 0.38                      |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.45                   | UD        | 1.78                      |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 0.42                   | UD        | 2.05                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.05                   | UD        | 0.27                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 0.5                    | UD        | 2.34                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.57                   | JD        | 1.82                      |              |            |
| 1,2-Dichloroethane             | 107-06-2   | 98.96            | 0.46                   | UD        | 1.86                      |              |            |
| Trichloroethene                | 79-01-6    | 131.4            | 0.09                   | UD        | 0.48                      |              |            |
| 1,2-Dichloropropane            | 78-87-5    | 113              | 0.55                   | UD        | 2.54                      |              |            |
| Bromodichloromethane           | 75-27-4    | 163.8            | 0.39                   | UD        | 2.61                      |              |            |
| 4-Methyl-2-Pentanone           | 108-10-1   | 100.2            | 0.47                   | UD        | 1.93                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 2.1                    | JD        | 7.91                      |              |            |
| t-1,3-Dichloropropene          | 10061-02-6 | 111              | 0.3                    | UD        | 1.36                      |              |            |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111              | 0.32                   | UD        | 1.45                      |              |            |
| 1,1,2-Trichloroethane          | 79-00-5    | 133.4            | 0.36                   | UD        | 1.96                      |              |            |

**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/27/25

**Field Id Number :** IA-B9-3-3262025DL

**Analysis Date :** 03/28/25

**Laboratory Id Number :** Q1669-01DL

**Target Analyts :** Air Results

|                           |             |         |      |    |      |  |  |
|---------------------------|-------------|---------|------|----|------|--|--|
| Dibromochloromethane      | 124-48-1    | 208.3   | 0.33 | UD | 2.81 |  |  |
| 1,2-Dibromoethane         | 106-93-4    | 187.9   | 0.36 | UD | 2.77 |  |  |
| Tetrachloroethene         | 127-18-4    | 165.8   | 0.08 | UD | 0.54 |  |  |
| Chlorobenzene             | 108-90-7    | 112.6   | 0.38 | UD | 1.75 |  |  |
| Ethyl Benzene             | 100-41-4    | 106.2   | 0.6  | UD | 2.61 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 1.1  | UD | 4.78 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.6  | UD | 2.61 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.55 | UD | 2.34 |  |  |
| Bromoform                 | 75-25-2     | 252.8   | 0.28 | UD | 2.9  |  |  |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | 167.9   | 0.06 | UD | 0.41 |  |  |
| 2-Chlorotoluene           | 95-49-8     | 126.6   | 0.55 | UD | 2.85 |  |  |
| 1,3,5-Trimethylbenzene    | 108-67-8    | 120.2   | 0.55 | UD | 2.7  |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.39 | UD | 1.92 |  |  |
| 1,3-Dichlorobenzene       | 541-73-1    | 147     | 0.4  | UD | 2.4  |  |  |
| 1,4-Dichlorobenzene       | 106-46-7    | 147     | 0.27 | UD | 1.62 |  |  |
| 1,2-Dichlorobenzene       | 95-50-1     | 147     | 0.38 | UD | 2.28 |  |  |
| 1,2,4-Trichlorobenzene    | 120-82-1    | 181.5   | 0.43 | UD | 3.19 |  |  |
| Hexachloro-1,3-Butadiene  | 87-68-3     | 260.8   | 0.43 | UD | 4.59 |  |  |
| Naphthalene               | 91-20-3     | 128.17  | 0.38 | UD | 1.99 |  |  |
| 1,3-Butadiene             | 106-99-0    | 54.09   | 0.65 | UD | 1.44 |  |  |
| 4-Ethyltoluene            | 622-96-8    | 120.2   | 0.6  | UD | 2.95 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 1.6  | JD | 5.64 |  |  |
| Allyl Chloride            | 107-05-1    | 76.53   | 0.75 | UD | 2.35 |  |  |
| 1,4-Dioxane               | 123-91-1    | 88.12   | 1.1  | UD | 3.96 |  |  |
| Methyl Methacrylate       | 80-62-6     | 100.117 | 0.43 | UD | 1.76 |  |  |



**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/27/25

**Field Id Number :** IA-B9-2-3262025

**Analysis Date :** 03/27/25

**Laboratory Id Number :** Q1669-02

**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            | 0.41                   | J         | 2.03                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.22                   | J         | 0.45                      |              |            |
| 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            | 0.2                    | J         | 1.12                      |              |            |
| 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            | 0.38                   | J         | 1.15                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 0.49                   | J         | 2.01                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.14                   | U         | 0.56                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 2.4                    |           | 5.7                       |              |            |
| 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            | 0.35                   | J         | 1.22                      |              |            |
| 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                   | J         | 0.76                      |              |            |
| 2-Butanone                     | 78-93-3    | 72.11            | 0.42                   | J         | 1.24                      |              |            |
| 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            | 0.12                   | J         | 0.59                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.01                   | U         | 0.05                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 0.37                   | J         | 1.73                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.67                   |           | 2.14                      |              |            |
| 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            | 0.43                   | J         | 1.76                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 2.3                    |           | 8.67                      |              |            |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/27/25

**Field Id Number :** IA-B9-2-3262025

**Analysis Date :** 03/27/25

**Laboratory Id Number :** Q1669-02

**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   | 0.39 | J | 1.69 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 1.4  |   | 6.08 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.65 |   | 2.82 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.13 | J | 0.55 |  |  |
| 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   | 0.18 | J | 0.88 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.54 |   | 2.65 |  |  |
| 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   | 0.2  | J | 0.98 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 2.3  |   | 8.11 |  |  |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/27/25

**Field Id Number :** IA-B9-1-3262025

**Analysis Date :** 03/27/25

**Laboratory Id Number :** Q1669-03

**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            | 0.38                   | J         | 1.88                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.25                   | J         | 0.52                      |              |            |
| 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            | 0.42                   | J         | 1.27                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 0.51                   |           | 2.09                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.14                   | U         | 0.56                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 3.2                    |           | 7.6                       |              |            |
| 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            | 0.81                   |           | 2.81                      |              |            |
| 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            | 0.28                   | J         | 0.96                      |              |            |
| 2-Butanone                     | 78-93-3    | 72.11            | 0.54                   |           | 1.59                      |              |            |
| 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            | 0.31                   | J         | 1.45                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.75                   |           | 2.4                       |              |            |
| 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            | 0.86                   |           | 3.52                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 2.6                    |           | 9.8                       |              |            |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/27/25

**Field Id Number :** IA-B9-1-3262025

**Analysis Date :** 03/27/25

**Laboratory Id Number :** Q1669-03

**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   | 0.38 | J | 1.65 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 1.4  |   | 6.08 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.57 |   | 2.48 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 2.5  |   | 10.6 |  |  |
| 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   | 0.14 | J | 0.69 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.42 | J | 2.06 |  |  |
| 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   | 0.13 | J | 0.64 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 2.2  |   | 7.75 |  |  |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/27/25

**Field Id Number :** AA-1-3262025

**Analysis Date :** 03/27/25

**Laboratory Id Number :** Q1669-04

**Target Analyts :** Air Results

| Chemical                       | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|--------------------------------|------------|------------------|------------------------|-----------|---------------------------|--------------|------------|
| Dichlorodifluoromethane        | 75-71-8    | 120.9            | 0.4                    | J         | 1.98                      |              |            |
| 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            | 0.22                   | J         | 1.24                      |              |            |
| 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            | 3.2                    |           | 7.6                       |              |            |
| 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            | 0.78                   |           | 2.71                      |              |            |
| 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            | 0.24                   | J         | 0.71                      |              |            |
| 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            | 0.31                   | J         | 0.99                      |              |            |
| 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            | 0.31                   | J         | 1.17                      |              |            |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/27/25

**Field Id Number :** AA-1-3262025

**Analysis Date :** 03/27/25

**Laboratory Id Number :** Q1669-04

**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   | 1.7  |   | 5.99 |  |  |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** SSSG-B16-3-3262025

**Analysis Date :** 03/28/25

**Laboratory Id Number :** Q1669-05

**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            | 0.43                   | J         | 2.13                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.36                   | J         | 0.74                      |              |            |
| 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            | 0.41                   | J         | 1.21                      |              |            |
| 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            | 0.4                    | J         | 1.64                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.14                   | U         | 0.56                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 6.2                    |           | 14.7                      |              |            |
| 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            | 0.74                   |           | 2.57                      |              |            |
| 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            | 0.4                    | J         | 1.38                      |              |            |
| 2-Butanone                     | 78-93-3    | 72.11            | 2.9                    |           | 8.55                      |              |            |
| 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            | 0.6                    |           | 2.93                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.01                   | U         | 0.05                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 0.39                   | J         | 1.82                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.55                   |           | 1.76                      |              |            |
| 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            | 2.1                    |           | 7.91                      |              |            |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** SSSG-B16-3-3262025

**Analysis Date :** 03/28/25

**Laboratory Id Number :** Q1669-05

**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   | 0.04 |   | 0.27 |  |  |
| Chlorobenzene             | 108-90-7    | 112.6   | 0.08 | U | 0.37 |  |  |
| Ethyl Benzene             | 100-41-4    | 106.2   | 0.27 | J | 1.17 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 1    |   | 4.34 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.36 | J | 1.56 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.36 | J | 1.53 |  |  |
| 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   | 0.26 | J | 1.28 |  |  |
| 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   | 1.9  |   | 6.7  |  |  |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** SSSG-DUP-1-3262025

**Analysis Date :** 03/31/25

**Laboratory Id Number :** Q1669-06

**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            | 0.46                   | J         | 2.27                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.43                   | J         | 0.89                      |              |            |
| 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            | 2                      |           | 5.9                       |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 0.2                    | J         | 1.12                      |              |            |
| 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            | 1.6                    |           | 6.56                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.14                   | U         | 0.56                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 24                     | E         | 57.0                      |              |            |
| 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            | 0.51                   |           | 1.77                      |              |            |
| 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            | 1.5                    |           | 5.16                      |              |            |
| 2-Butanone                     | 78-93-3    | 72.11            | 6.2                    |           | 18.3                      |              |            |
| 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            | 2.3                    |           | 10.7                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 5.6                    |           | 17.9                      |              |            |
| 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            | 0.4                    | J         | 1.64                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 9.7                    |           | 36.6                      |              |            |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** SSSG-DUP-1-3262025

**Analysis Date :** 03/31/25

**Laboratory Id Number :** Q1669-06

**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   | 1.3  |   | 5.65 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 5.1  |   | 22.2 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 1.9  |   | 8.25 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 1.4  |   | 5.96 |  |  |
| 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   | 0.43 | J | 2.11 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 1.4  |   | 6.88 |  |  |
| 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 |  |  |
| 1,3-Butadiene             | 106-99-0    | 54.09   | 0.13 | U | 0.29 |  |  |
| Naphthalene               | 91-20-3     | 128.17  | 0.43 |   | 2.25 |  |  |
| 4-Ethyltoluene            | 622-96-8    | 120.2   | 0.44 | J | 2.16 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 4.4  |   | 15.5 |  |  |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** SSSG-DUP-1-3262025D

**Analysis Date :** 03/31/25

**Laboratory Id Number :** Q1669-06DL

**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            | 0.84                   | UD        | 4.15                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.54                   | JD        | 1.12                      |              |            |
| Vinyl Chloride                 | 75-01-4    | 62.5             | 0.06                   | UD        | 0.15                      |              |            |
| Bromomethane                   | 74-83-9    | 94.94            | 0.56                   | UD        | 2.17                      |              |            |
| Chloroethane                   | 75-00-3    | 64.52            | 0.68                   | UD        | 1.79                      |              |            |
| Tetrahydrofuran                | 109-99-9   | 72.11            | 2.1                    | D         | 6.19                      |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 0.64                   | UD        | 3.6                       |              |            |
| Dichlorotetrafluoroethane      | 76-14-2    | 170.9            | 0.35                   | UD        | 2.45                      |              |            |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.4            | 0.64                   | UD        | 4.91                      |              |            |
| tert-Butyl alcohol             | 75-65-0    | 74.12            | 0.76                   | UD        | 2.3                       |              |            |
| Heptane                        | 142-82-5   | 100.2            | 1.7                    | JD        | 6.97                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.56                   | UD        | 2.22                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 22.7                   | D         | 53.9                      |              |            |
| Carbon Disulfide               | 75-15-0    | 76.14            | 0.64                   | UD        | 1.99                      |              |            |
| Methyl tert-Butyl Ether        | 1634-04-4  | 88.15            | 0.48                   | UD        | 1.73                      |              |            |
| Methylene Chloride             | 75-09-2    | 84.94            | 0.76                   | UD        | 2.64                      |              |            |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.94            | 0.76                   | UD        | 3.01                      |              |            |
| 1,1-Dichloroethane             | 75-34-3    | 98.96            | 0.52                   | UD        | 2.1                       |              |            |
| Cyclohexane                    | 110-82-7   | 84.16            | 1.5                    | JD        | 5.16                      |              |            |
| 2-Butanone                     | 78-93-3    | 72.11            | 6.4                    | D         | 18.9                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 0.04                   | UD        | 0.25                      |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.36                   | UD        | 1.43                      |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 0.33                   | UD        | 1.61                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.04                   | UD        | 0.22                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 2.2                    | D         | 10.3                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 5.7                    | D         | 18.2                      |              |            |
| 1,2-Dichloroethane             | 107-06-2   | 98.96            | 0.36                   | UD        | 1.46                      |              |            |
| Trichloroethene                | 79-01-6    | 131.4            | 0.07                   | UD        | 0.38                      |              |            |
| 1,2-Dichloropropane            | 78-87-5    | 113              | 0.44                   | UD        | 2.03                      |              |            |
| Bromodichloromethane           | 75-27-4    | 163.8            | 0.31                   | UD        | 2.08                      |              |            |
| 4-Methyl-2-Pentanone           | 108-10-1   | 100.2            | 0.37                   | UD        | 1.52                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 9.5                    | D         | 35.8                      |              |            |
| t-1,3-Dichloropropene          | 10061-02-6 | 111              | 0.24                   | UD        | 1.09                      |              |            |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111              | 0.26                   | UD        | 1.18                      |              |            |
| 1,1,2-Trichloroethane          | 79-00-5    | 133.4            | 0.28                   | UD        | 1.53                      |              |            |

**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** SSSG-DUP-1-3262025D

**Analysis Date :** 03/31/25

**Laboratory Id Number :** Q1669-06DL

**Target Analyts :** Air Results

|                           |             |         |      |    |      |  |  |
|---------------------------|-------------|---------|------|----|------|--|--|
| Dibromochloromethane      | 124-48-1    | 208.3   | 0.26 | UD | 2.22 |  |  |
| 1,2-Dibromoethane         | 106-93-4    | 187.9   | 0.29 | UD | 2.23 |  |  |
| Tetrachloroethene         | 127-18-4    | 165.8   | 0.06 | UD | 0.41 |  |  |
| Chlorobenzene             | 108-90-7    | 112.6   | 0.3  | UD | 1.38 |  |  |
| Ethyl Benzene             | 100-41-4    | 106.2   | 1.3  | JD | 5.65 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 4.8  | D  | 20.8 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 1.7  | JD | 7.38 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 1.2  | JD | 5.11 |  |  |
| Bromoform                 | 75-25-2     | 252.8   | 0.23 | UD | 2.38 |  |  |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | 167.9   | 0.04 | UD | 0.27 |  |  |
| 2-Chlorotoluene           | 95-49-8     | 126.6   | 0.44 | UD | 2.28 |  |  |
| 1,3,5-Trimethylbenzene    | 108-67-8    | 120.2   | 0.44 | UD | 2.16 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 1.1  | JD | 5.41 |  |  |
| 1,3-Dichlorobenzene       | 541-73-1    | 147     | 0.32 | UD | 1.92 |  |  |
| 1,4-Dichlorobenzene       | 106-46-7    | 147     | 0.21 | UD | 1.26 |  |  |
| 1,2-Dichlorobenzene       | 95-50-1     | 147     | 0.3  | UD | 1.8  |  |  |
| 1,2,4-Trichlorobenzene    | 120-82-1    | 181.5   | 0.34 | UD | 2.52 |  |  |
| Hexachloro-1,3-Butadiene  | 87-68-3     | 260.8   | 0.34 | UD | 3.63 |  |  |
| Naphthalene               | 91-20-3     | 128.17  | 0.3  | UD | 1.57 |  |  |
| 1,3-Butadiene             | 106-99-0    | 54.09   | 0.52 | UD | 1.15 |  |  |
| 4-Ethyltoluene            | 622-96-8    | 120.2   | 0.48 | UD | 2.36 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 4.4  | D  | 15.5 |  |  |
| Allyl Chloride            | 107-05-1    | 76.53   | 0.6  | UD | 1.88 |  |  |
| 1,4-Dioxane               | 123-91-1    | 88.12   | 0.84 | UD | 3.03 |  |  |
| Methyl Methacrylate       | 80-62-6     | 100.117 | 0.34 | UD | 1.39 |  |  |

**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** SSSG-B16-1-3262025

**Analysis Date :** 03/28/25

**Laboratory Id Number :** Q1669-07

**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            | 0.52                   |           | 2.57                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.14                   | J         | 0.29                      |              |            |
| 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            | 0.47                   | J         | 1.39                      |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 0.2                    | J         | 1.12                      |              |            |
| 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            | 0.63                   |           | 1.91                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 0.32                   | J         | 1.31                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.14                   | U         | 0.56                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 35.4                   | E         | 84.1                      |              |            |
| 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            | 1.5                    |           | 5.21                      |              |            |
| 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            | 2.3                    |           | 6.78                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 0.04                   |           | 0.25                      |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.09                   | U         | 0.36                      |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 0.11                   | J         | 0.54                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.05                   |           | 0.27                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 0.24                   | J         | 1.12                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.45                   | J         | 1.44                      |              |            |
| 1,2-Dichloroethane             | 107-06-2   | 98.96            | 0.09                   | U         | 0.36                      |              |            |
| Trichloroethene                | 79-01-6    | 131.4            | 0.08                   |           | 0.43                      |              |            |
| 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            | 1.6                    |           | 6.56                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 6.1                    |           | 23.0                      |              |            |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** SSSG-B16-1-3262025

**Analysis Date :** 03/28/25

**Laboratory Id Number :** Q1669-07

**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   | 0.15 |   | 1.02 |  |  |
| Chlorobenzene             | 108-90-7    | 112.6   | 0.08 | U | 0.37 |  |  |
| Ethyl Benzene             | 100-41-4    | 106.2   | 0.54 |   | 2.35 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 2    |   | 8.69 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.86 |   | 3.74 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.78 |   | 3.32 |  |  |
| 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   | 0.2  | J | 0.98 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.49 | J | 2.41 |  |  |
| 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   | 1.1  |   | 3.88 |  |  |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** SSSG-B16-1-3262025DL

**Analysis Date :** 03/27/25

**Laboratory Id Number :** Q1669-07DL

**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            | 2.1                    | UD        | 10.4                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.98                   | UD        | 2.02                      |              |            |
| Vinyl Chloride                 | 75-01-4    | 62.5             | 0.14                   | UD        | 0.36                      |              |            |
| Bromomethane                   | 74-83-9    | 94.94            | 1.4                    | UD        | 5.44                      |              |            |
| Chloroethane                   | 75-00-3    | 64.52            | 1.7                    | UD        | 4.49                      |              |            |
| Tetrahydrofuran                | 109-99-9   | 72.11            | 1.3                    | UD        | 3.83                      |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 1.6                    | UD        | 8.99                      |              |            |
| Dichlorotetrafluoroethane      | 76-14-2    | 170.9            | 0.88                   | UD        | 6.15                      |              |            |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.4            | 1.6                    | UD        | 12.3                      |              |            |
| tert-Butyl alcohol             | 75-65-0    | 74.12            | 1.9                    | UD        | 5.76                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 1.1                    | UD        | 4.51                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 1.4                    | UD        | 5.55                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 38.3                   | D         | 91.0                      |              |            |
| Carbon Disulfide               | 75-15-0    | 76.14            | 1.6                    | UD        | 4.98                      |              |            |
| Methyl tert-Butyl Ether        | 1634-04-4  | 88.15            | 1.2                    | UD        | 4.33                      |              |            |
| Methylene Chloride             | 75-09-2    | 84.94            | 2.4                    | JD        | 8.34                      |              |            |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.94            | 1.9                    | UD        | 7.53                      |              |            |
| 1,1-Dichloroethane             | 75-34-3    | 98.96            | 1.3                    | UD        | 5.26                      |              |            |
| Cyclohexane                    | 110-82-7   | 84.16            | 2.2                    | UD        | 7.57                      |              |            |
| 2-Butanone                     | 78-93-3    | 72.11            | 2.4                    | JD        | 7.08                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 0.11                   | UD        | 0.69                      |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.89                   | UD        | 3.53                      |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 0.83                   | UD        | 4.05                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.1                    | UD        | 0.55                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 1                      | UD        | 4.67                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.87                   | UD        | 2.78                      |              |            |
| 1,2-Dichloroethane             | 107-06-2   | 98.96            | 0.91                   | UD        | 3.68                      |              |            |
| Trichloroethene                | 79-01-6    | 131.4            | 0.17                   | UD        | 0.91                      |              |            |
| 1,2-Dichloropropane            | 78-87-5    | 113              | 1.1                    | UD        | 5.08                      |              |            |
| Bromodichloromethane           | 75-27-4    | 163.8            | 0.77                   | UD        | 5.16                      |              |            |
| 4-Methyl-2-Pentanone           | 108-10-1   | 100.2            | 1.7                    | JD        | 6.97                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 5.7                    | D         | 21.5                      |              |            |
| t-1,3-Dichloropropene          | 10061-02-6 | 111              | 0.6                    | UD        | 2.72                      |              |            |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111              | 0.64                   | UD        | 2.91                      |              |            |
| 1,1,2-Trichloroethane          | 79-00-5    | 133.4            | 0.71                   | UD        | 3.87                      |              |            |

**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** SSSG-B16-1-3262025DL

**Analysis Date :** 03/27/25

**Laboratory Id Number :** Q1669-07DL

**Target Analyts :** Air Results

|                           |             |         |      |    |      |  |  |
|---------------------------|-------------|---------|------|----|------|--|--|
| Dibromochloromethane      | 124-48-1    | 208.3   | 0.66 | UD | 5.62 |  |  |
| 1,2-Dibromoethane         | 106-93-4    | 187.9   | 0.72 | UD | 5.53 |  |  |
| Tetrachloroethene         | 127-18-4    | 165.8   | 0.15 | UD | 1.02 |  |  |
| Chlorobenzene             | 108-90-7    | 112.6   | 0.76 | UD | 3.5  |  |  |
| Ethyl Benzene             | 100-41-4    | 106.2   | 1.2  | UD | 5.21 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 2.1  | UD | 9.12 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 1.2  | UD | 5.21 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 1.1  | UD | 4.68 |  |  |
| Bromoform                 | 75-25-2     | 252.8   | 0.57 | UD | 5.89 |  |  |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | 167.9   | 0.11 | UD | 0.76 |  |  |
| 2-Chlorotoluene           | 95-49-8     | 126.6   | 1.1  | UD | 5.7  |  |  |
| 1,3,5-Trimethylbenzene    | 108-67-8    | 120.2   | 1.1  | UD | 5.41 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.78 | UD | 3.83 |  |  |
| 1,3-Dichlorobenzene       | 541-73-1    | 147     | 0.8  | UD | 4.81 |  |  |
| 1,4-Dichlorobenzene       | 106-46-7    | 147     | 0.53 | UD | 3.19 |  |  |
| 1,2-Dichlorobenzene       | 95-50-1     | 147     | 0.75 | UD | 4.51 |  |  |
| 1,2,4-Trichlorobenzene    | 120-82-1    | 181.5   | 0.85 | UD | 6.31 |  |  |
| Hexachloro-1,3-Butadiene  | 87-68-3     | 260.8   | 0.85 | UD | 9.07 |  |  |
| Naphthalene               | 91-20-3     | 128.17  | 0.75 | UD | 3.93 |  |  |
| 1,3-Butadiene             | 106-99-0    | 54.09   | 1.3  | UD | 2.88 |  |  |
| 4-Ethyltoluene            | 622-96-8    | 120.2   | 1.2  | UD | 5.9  |  |  |
| Hexane                    | 110-54-3    | 86.17   | 1.1  | UD | 3.88 |  |  |
| Allyl Chloride            | 107-05-1    | 76.53   | 1.5  | UD | 4.7  |  |  |
| 1,4-Dioxane               | 123-91-1    | 88.12   | 2.1  | UD | 7.57 |  |  |
| Methyl Methacrylate       | 80-62-6     | 100.117 | 0.86 | UD | 3.52 |  |  |

**Project :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** SSSG-B16-2-3262025

**Analysis Date :** 03/28/25

**Laboratory Id Number :** Q1669-08

**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            | 0.42                   | J         | 2.08                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.1                    | U         | 0.21                      |              |            |
| 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            | 0.18                   | J         | 1.01                      |              |            |
| 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            | 0.14                   | J         | 0.57                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.14                   | U         | 0.56                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 10.8                   |           | 25.6                      |              |            |
| 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            | 0.66                   |           | 2.29                      |              |            |
| 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            | 0.63                   |           | 1.86                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 0.04                   |           | 0.25                      |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.09                   | U         | 0.36                      |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 1.3                    |           | 6.35                      |              |            |
| 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            | 0.24                   | J         | 0.77                      |              |            |
| 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            | 3.4                    |           | 13.9                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 2.9                    |           | 10.9                      |              |            |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** SSSG-B16-2-3262025

**Analysis Date :** 03/28/25

**Laboratory Id Number :** Q1669-08

**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   | 0.19 |   | 1.29 |  |  |
| Chlorobenzene             | 108-90-7    | 112.6   | 0.1  | J | 0.46 |  |  |
| Ethyl Benzene             | 100-41-4    | 106.2   | 0.25 | J | 1.09 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 1.2  |   | 5.21 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.45 | J | 1.95 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.37 | J | 1.58 |  |  |
| 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   | 0.14 | J | 0.69 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.32 | J | 1.57 |  |  |
| 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   | 0.13 | J | 0.64 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 0.56 |   | 1.97 |  |  |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** AA-2-3262025

**Analysis Date :** 03/27/25

**Laboratory Id Number :** Q1669-09

**Target Analyts :** Air Results

| Chemical                       | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|--------------------------------|------------|------------------|------------------------|-----------|---------------------------|--------------|------------|
| Dichlorodifluoromethane        | 75-71-8    | 120.9            | 0.45                   | J         | 2.23                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.44                   | J         | 0.91                      |              |            |
| 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            | 0.22                   | J         | 1.24                      |              |            |
| 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            | 2.5                    |           | 5.94                      |              |            |
| 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            | 7                      |           | 24.3                      |              |            |
| 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            | 0.18                   | J         | 0.53                      |              |            |
| 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            | 0.13                   | J         | 0.42                      |              |            |
| 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            | 0.34                   | J         | 1.28                      |              |            |
| 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 :** US EPA Riverside Industrial Park Superfund Site

**Sampling Date :** 03/26/25

**Field Id Number :** AA-2-3262025

**Analysis Date :** 03/27/25

**Laboratory Id Number :** Q1669-09

**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   | 0.29 | J | 1.43 |  |  |
| 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   | 4.5  |   | 15.9 |  |  |
| 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                  | ppbv     |



| 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           |

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| 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      |

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# QC SUMMARY

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### Surrogate Summary

SDG No.: Q1669

Client: Woodard & Curran

Analytical Method: SWTO-15

| Lab Sample ID | Client ID             | Parameter               | Spike | Result | RecoveryQual | Limits  |           |
|---------------|-----------------------|-------------------------|-------|--------|--------------|---------|-----------|
|               |                       |                         |       |        |              | Low     | High      |
| Q1669-01      | IA-B9-3-3262025       | 1-Bromo-4-Fluorobenzene | 10    | 9.95   | 99           | 70 (65) | 130 (135) |
| Q1669-01DL    | IA-B9-3-3262025DL     | 1-Bromo-4-Fluorobenzene | 10    | 9.90   | 99           | 70 (65) | 130 (135) |
| Q1669-01DUP   | IA-B9-3-3262025DUP    | 1-Bromo-4-Fluorobenzene | 10    | 10.1   | 101          | 70 (65) | 130 (135) |
| Q1669-02      | IA-B9-2-3262025       | 1-Bromo-4-Fluorobenzene | 10    | 9.91   | 99           | 70 (65) | 130 (135) |
| Q1669-03      | IA-B9-1-3262025       | 1-Bromo-4-Fluorobenzene | 10    | 9.80   | 98           | 70 (65) | 130 (135) |
| Q1669-04      | AA-1-3262025          | 1-Bromo-4-Fluorobenzene | 10    | 9.93   | 99           | 70 (65) | 130 (135) |
| Q1669-05      | SSSG-B16-3-3262025    | 1-Bromo-4-Fluorobenzene | 10    | 10.1   | 101          | 70 (65) | 130 (135) |
| Q1669-06      | SSSG-DUP-1-3262025    | 1-Bromo-4-Fluorobenzene | 10    | 10.1   | 101          | 70 (65) | 130 (135) |
| Q1669-06DL    | SSSG-DUP-1-3262025DL  | 1-Bromo-4-Fluorobenzene | 10    | 9.84   | 98           | 70 (65) | 130 (135) |
| Q1669-06DUP   | SSSG-DUP-1-3262025DUP | 1-Bromo-4-Fluorobenzene | 10    | 9.85   | 99           | 70 (65) | 130 (135) |
| Q1669-07      | SSSG-B16-1-3262025    | 1-Bromo-4-Fluorobenzene | 10    | 10.0   | 100          | 70 (65) | 130 (135) |
| Q1669-07DL    | SSSG-B16-1-3262025DL  | 1-Bromo-4-Fluorobenzene | 10    | 9.90   | 99           | 70 (65) | 130 (135) |
| Q1669-08      | SSSG-B16-2-3262025    | 1-Bromo-4-Fluorobenzene | 10    | 10.1   | 101          | 70 (65) | 130 (135) |
| Q1669-09      | AA-2-3262025          | 1-Bromo-4-Fluorobenzene | 10    | 9.88   | 99           | 70 (65) | 130 (135) |
| Q1669-09DUP   | AA-2-3262025DUP       | 1-Bromo-4-Fluorobenzene | 10    | 9.96   | 100          | 70 (65) | 130 (135) |
| VL0327ABL01   | VL0327ABL01           | 1-Bromo-4-Fluorobenzene | 10    | 9.93   | 99           | 70 (65) | 130 (135) |
| VL0327ABS01   | VL0327ABS01           | 1-Bromo-4-Fluorobenzene | 10    | 9.93   | 99           | 70 (65) | 130 (135) |
| VL0331ABL01   | VL0331ABL01           | 1-Bromo-4-Fluorobenzene | 10    | 9.95   | 99           | 70 (65) | 130 (135) |
| VL0331ABS01   | VL0331ABS01           | 1-Bromo-4-Fluorobenzene | 10    | 10.3   | 103          | 70 (65) | 130 (135) |

( ) = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1669

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042181.D

| Lab Sample ID | Parameter                      | Spike | Result | Unit | Rec | RPD | Qual | Low     | Limits High | RPD |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|---------|-------------|-----|
| VL0327ABS01   | Dichlorodifluoromethane        | 10    | 9.90   | ppbv | 99  |     |      | 40 (70) | 160 (130)   |     |
|               | Chloromethane                  | 10    | 9.60   | ppbv | 96  |     |      | 40 (70) | 160 (130)   |     |
|               | Vinyl Chloride                 | 10    | 8.60   | ppbv | 86  |     |      | 70 (70) | 130 (130)   |     |
|               | Bromomethane                   | 10    | 8.90   | ppbv | 89  |     |      | 40 (70) | 160 (130)   |     |
|               | Chloroethane                   | 10    | 9.30   | ppbv | 93  |     |      | 40 (70) | 160 (130)   |     |
|               | Tetrahydrofuran                | 10    | 9.40   | ppbv | 94  |     |      | 70 (70) | 130 (130)   |     |
|               | Trichlorofluoromethane         | 10    | 9.70   | ppbv | 97  |     |      | 40 (70) | 160 (130)   |     |
|               | 1,1,2-Trichlorotrifluoroethane | 10    | 9.10   | ppbv | 91  |     |      | 70 (70) | 130 (130)   |     |
|               | Dichlorotetrafluoroethane      | 10    | 10.0   | ppbv | 100 |     |      | 70 (70) | 130 (130)   |     |
|               | tert-Butyl Alcohol             | 10    | 9.20   | ppbv | 92  |     |      | 70 (70) | 130 (130)   |     |
|               | Heptane                        | 10    | 9.50   | ppbv | 95  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1-Dichloroethene             | 10    | 9.10   | ppbv | 91  |     |      | 70 (70) | 130 (130)   |     |
|               | Acetone                        | 10    | 8.40   | ppbv | 84  |     |      | 40 (70) | 160 (130)   |     |
|               | Carbon disulfide               | 10    | 9.20   | ppbv | 92  |     |      | 40 (70) | 160 (130)   |     |
|               | Methyl tert-butyl Ether        | 10    | 10.3   | ppbv | 103 |     |      | 70 (70) | 130 (130)   |     |
|               | Methylene Chloride             | 10    | 8.10   | ppbv | 81  |     |      | 70 (70) | 130 (130)   |     |
|               | trans-1,2-Dichloroethene       | 10    | 9.10   | ppbv | 91  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1-Dichloroethane             | 10    | 9.70   | ppbv | 97  |     |      | 70 (70) | 130 (130)   |     |
|               | Cyclohexane                    | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)   |     |
|               | 2-Butanone                     | 10    | 9.20   | ppbv | 92  |     |      | 40 (70) | 160 (130)   |     |
|               | Carbon Tetrachloride           | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)   |     |
|               | cis-1,2-Dichloroethene         | 10    | 9.80   | ppbv | 98  |     |      | 70 (70) | 130 (130)   |     |
|               | Chloroform                     | 10    | 9.90   | ppbv | 99  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1,1-Trichloroethane          | 10    | 9.20   | ppbv | 92  |     |      | 70 (70) | 130 (130)   |     |
|               | 2,2,4-Trimethylpentane         | 10    | 9.50   | ppbv | 95  |     |      | 70 (70) | 130 (130)   |     |
|               | Benzene                        | 10    | 9.50   | ppbv | 95  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2-Dichloroethane             | 10    | 10.1   | ppbv | 101 |     |      | 70 (70) | 130 (130)   |     |
|               | Trichloroethene                | 10    | 9.40   | ppbv | 94  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2-Dichloropropane            | 10    | 9.40   | ppbv | 94  |     |      | 70 (70) | 130 (130)   |     |
|               | Bromodichloromethane           | 10    | 10.0   | ppbv | 100 |     |      | 70 (70) | 130 (130)   |     |
|               | 4-Methyl-2-Pentanone           | 10    | 8.70   | ppbv | 87  |     |      | 40 (70) | 160 (130)   |     |
|               | Toluene                        | 10    | 9.50   | ppbv | 95  |     |      | 70 (70) | 130 (130)   |     |
|               | t-1,3-Dichloropropene          | 10    | 9.40   | ppbv | 94  |     |      | 70 (70) | 130 (130)   |     |
|               | cis-1,3-Dichloropropene        | 10    | 9.40   | ppbv | 94  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1,2-Trichloroethane          | 10    | 9.50   | ppbv | 95  |     |      | 70 (70) | 130 (130)   |     |
|               | Dibromochloromethane           | 10    | 9.90   | ppbv | 99  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2-Dibromoethane              | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)   |     |
|               | Tetrachloroethene              | 10    | 8.80   | ppbv | 88  |     |      | 70 (70) | 130 (130)   |     |
|               | Chlorobenzene                  | 10    | 9.50   | ppbv | 95  |     |      | 70 (70) | 130 (130)   |     |
|               | Ethyl Benzene                  | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)   |     |
|               | m/p-Xylene                     | 20    | 19.0   | ppbv | 95  |     |      | 70 (70) | 130 (130)   |     |
|               | o-Xylene                       | 10    | 9.50   | ppbv | 95  |     |      | 70 (70) | 130 (130)   |     |
|               | Styrene                        | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)   |     |
|               | Bromoform                      | 10    | 10.0   | ppbv | 100 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1,2,2-Tetrachloroethane      | 10    | 9.50   | ppbv | 95  |     |      | 70 (70) | 130 (130)   |     |
|               | 2-Chlorotoluene                | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,3,5-Trimethylbenzene         | 10    | 9.50   | ppbv | 95  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2,4-Trimethylbenzene         | 10    | 8.90   | ppbv | 89  |     |      | 70 (70) | 130 (130)   |     |

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1669

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042181.D

| Lab Sample ID | Parameter                | Spike | Result | Unit | Rec | RPD | Qual | Low     | Limits<br>High | RPD |
|---------------|--------------------------|-------|--------|------|-----|-----|------|---------|----------------|-----|
| VL0327ABS01   | 1,3-Dichlorobenzene      | 10    | 9.40   | ppbv | 94  |     |      | 70 (70) | 130 (130)      |     |
|               | 1,4-Dichlorobenzene      | 10    | 9.50   | ppbv | 95  |     |      | 70 (70) | 130 (130)      |     |
|               | 1,2-Dichlorobenzene      | 10    | 9.30   | ppbv | 93  |     |      | 70 (70) | 130 (130)      |     |
|               | 1,2,4-Trichlorobenzene   | 10    | 8.80   | ppbv | 88  |     |      | 70 (70) | 130 (130)      |     |
|               | Hexachloro-1,3-butadiene | 10    | 7.90   | ppbv | 79  |     |      | 70 (70) | 130 (130)      |     |
|               | Naphthalene              | 10    | 8.70   | ppbv | 87  |     |      | 40 (70) | 160 (130)      |     |
|               | 1,3-Butadiene            | 10    | 8.70   | ppbv | 87  |     |      | 70 (70) | 130 (130)      |     |
|               | 4-Ethyltoluene           | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)      |     |
|               | Hexane                   | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)      |     |
|               | Allyl Chloride           | 10    | 9.00   | ppbv | 90  |     |      | 70 (70) | 130 (130)      |     |
|               | 1,4-Dioxane              | 10    | 8.90   | ppbv | 89  |     |      | 40 (70) | 160 (130)      |     |
|               | Methyl methacrylate      | 10    | 9.40   | ppbv | 94  |     |      | 70 (70) | 130 (130)      |     |

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1669

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042203.D

| Lab Sample ID | Parameter                      | Spike | Result | Unit | Rec | RPD | Qual | Low     | Limits High | RPD |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|---------|-------------|-----|
| VL0331ABS01   | Dichlorodifluoromethane        | 10    | 10.4   | ppbv | 104 |     |      | 40 (70) | 160 (130)   |     |
|               | Chloromethane                  | 10    | 9.70   | ppbv | 97  |     |      | 40 (70) | 160 (130)   |     |
|               | Vinyl Chloride                 | 10    | 8.70   | ppbv | 87  |     |      | 70 (70) | 130 (130)   |     |
|               | Bromomethane                   | 10    | 9.10   | ppbv | 91  |     |      | 40 (70) | 160 (130)   |     |
|               | Chloroethane                   | 10    | 9.30   | ppbv | 93  |     |      | 40 (70) | 160 (130)   |     |
|               | Tetrahydrofuran                | 10    | 9.30   | ppbv | 93  |     |      | 70 (70) | 130 (130)   |     |
|               | Trichlorofluoromethane         | 10    | 10.3   | ppbv | 103 |     |      | 40 (70) | 160 (130)   |     |
|               | 1,1,2-Trichlorotrifluoroethane | 10    | 9.70   | ppbv | 97  |     |      | 70 (70) | 130 (130)   |     |
|               | Dichlorotetrafluoroethane      | 10    | 10.3   | ppbv | 103 |     |      | 70 (70) | 130 (130)   |     |
|               | tert-Butyl Alcohol             | 10    | 9.00   | ppbv | 90  |     |      | 70 (70) | 130 (130)   |     |
|               | Heptane                        | 10    | 9.20   | ppbv | 92  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1-Dichloroethene             | 10    | 9.20   | ppbv | 92  |     |      | 70 (70) | 130 (130)   |     |
|               | Acetone                        | 10    | 8.90   | ppbv | 89  |     |      | 40 (70) | 160 (130)   |     |
|               | Carbon disulfide               | 10    | 9.30   | ppbv | 93  |     |      | 40 (70) | 160 (130)   |     |
|               | Methyl tert-butyl Ether        | 10    | 11.0   | ppbv | 110 |     |      | 70 (70) | 130 (130)   |     |
|               | Methylene Chloride             | 10    | 8.40   | ppbv | 84  |     |      | 70 (70) | 130 (130)   |     |
|               | trans-1,2-Dichloroethene       | 10    | 9.20   | ppbv | 92  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1-Dichloroethane             | 10    | 10.0   | ppbv | 100 |     |      | 70 (70) | 130 (130)   |     |
|               | Cyclohexane                    | 10    | 9.40   | ppbv | 94  |     |      | 70 (70) | 130 (130)   |     |
|               | 2-Butanone                     | 10    | 9.50   | ppbv | 95  |     |      | 40 (70) | 160 (130)   |     |
|               | Carbon Tetrachloride           | 10    | 10.6   | ppbv | 106 |     |      | 70 (70) | 130 (130)   |     |
|               | cis-1,2-Dichloroethene         | 10    | 10.0   | ppbv | 100 |     |      | 70 (70) | 130 (130)   |     |
|               | Chloroform                     | 10    | 10.6   | ppbv | 106 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1,1-Trichloroethane          | 10    | 9.80   | ppbv | 98  |     |      | 70 (70) | 130 (130)   |     |
|               | 2,2,4-Trimethylpentane         | 10    | 9.50   | ppbv | 95  |     |      | 70 (70) | 130 (130)   |     |
|               | Benzene                        | 10    | 9.80   | ppbv | 98  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2-Dichloroethane             | 10    | 11.0   | ppbv | 110 |     |      | 70 (70) | 130 (130)   |     |
|               | Trichloroethene                | 10    | 9.70   | ppbv | 97  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2-Dichloropropane            | 10    | 9.70   | ppbv | 97  |     |      | 70 (70) | 130 (130)   |     |
|               | Bromodichloromethane           | 10    | 10.8   | ppbv | 108 |     |      | 70 (70) | 130 (130)   |     |
|               | 4-Methyl-2-Pentanone           | 10    | 8.60   | ppbv | 86  |     |      | 40 (70) | 160 (130)   |     |
|               | Toluene                        | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)   |     |
|               | t-1,3-Dichloropropene          | 10    | 9.10   | ppbv | 91  |     |      | 70 (70) | 130 (130)   |     |
|               | cis-1,3-Dichloropropene        | 10    | 9.40   | ppbv | 94  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1,2-Trichloroethane          | 10    | 10.2   | ppbv | 102 |     |      | 70 (70) | 130 (130)   |     |
|               | Dibromochloromethane           | 10    | 10.6   | ppbv | 106 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2-Dibromoethane              | 10    | 10.3   | ppbv | 103 |     |      | 70 (70) | 130 (130)   |     |
|               | Tetrachloroethene              | 10    | 9.00   | ppbv | 90  |     |      | 70 (70) | 130 (130)   |     |
|               | Chlorobenzene                  | 10    | 10.4   | ppbv | 104 |     |      | 70 (70) | 130 (130)   |     |
|               | Ethyl Benzene                  | 10    | 10.1   | ppbv | 101 |     |      | 70 (70) | 130 (130)   |     |
|               | m/p-Xylene                     | 20    | 20.6   | ppbv | 103 |     |      | 70 (70) | 130 (130)   |     |
|               | o-Xylene                       | 10    | 10.4   | ppbv | 104 |     |      | 70 (70) | 130 (130)   |     |
|               | Styrene                        | 10    | 10.1   | ppbv | 101 |     |      | 70 (70) | 130 (130)   |     |
|               | Bromoform                      | 10    | 10.3   | ppbv | 103 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1,2,2-Tetrachloroethane      | 10    | 10.4   | ppbv | 104 |     |      | 70 (70) | 130 (130)   |     |
|               | 2-Chlorotoluene                | 10    | 10.3   | ppbv | 103 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,3,5-Trimethylbenzene         | 10    | 10.4   | ppbv | 104 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2,4-Trimethylbenzene         | 10    | 9.80   | ppbv | 98  |     |      | 70 (70) | 130 (130)   |     |

() = LABORATORY INHOUSE LIMIT

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

**SW-846**

**SDG No.:** Q1669

**Client:** Woodard & Curran

**Analytical Method:** SWTO-15 **Datafile :** VL042203.D

| Lab Sample ID | Parameter                | Spike | Result | Unit | Rec | RPD | Qual | Low     | Limits<br>High | RPD |
|---------------|--------------------------|-------|--------|------|-----|-----|------|---------|----------------|-----|
| VL0331ABS01   | 1,3-Dichlorobenzene      | 10    | 10.5   | ppbv | 105 |     |      | 70 (70) | 130 (130)      |     |
|               | 1,4-Dichlorobenzene      | 10    | 10.5   | ppbv | 105 |     |      | 70 (70) | 130 (130)      |     |
|               | 1,2-Dichlorobenzene      | 10    | 10.6   | ppbv | 106 |     |      | 70 (70) | 130 (130)      |     |
|               | 1,2,4-Trichlorobenzene   | 10    | 9.30   | ppbv | 93  |     |      | 70 (70) | 130 (130)      |     |
|               | Hexachloro-1,3-butadiene | 10    | 8.40   | ppbv | 84  |     |      | 70 (70) | 130 (130)      |     |
|               | Naphthalene              | 10    | 9.50   | ppbv | 95  |     |      | 40 (70) | 160 (130)      |     |
|               | 1,3-Butadiene            | 10    | 8.70   | ppbv | 87  |     |      | 70 (70) | 130 (130)      |     |
|               | 4-Ethyltoluene           | 10    | 10.5   | ppbv | 105 |     |      | 70 (70) | 130 (130)      |     |
|               | Hexane                   | 10    | 9.50   | ppbv | 95  |     |      | 70 (70) | 130 (130)      |     |
|               | Allyl Chloride           | 10    | 8.90   | ppbv | 89  |     |      | 70 (70) | 130 (130)      |     |
|               | 1,4-Dioxane              | 10    | 8.90   | ppbv | 89  |     |      | 40 (70) | 160 (130)      |     |
|               | Methyl methacrylate      | 10    | 9.20   | ppbv | 92  |     |      | 70 (70) | 130 (130)      |     |

() = LABORATORY INHOUSE LIMIT

## Duplicate Sample Summary

|                               |                    |                  |
|-------------------------------|--------------------|------------------|
| <b>Lab Sample Id :</b>        | Q1669-01DUP        | Q1669-01         |
| <b>Client Id :</b>            | IA-B9-3-3262025DUP | IA-B9-3-3262025  |
| <b>DF :</b>                   | 1                  | 1                |
| <b>Datafile :</b>             | VL042196.D         | VL042185.D       |
| <b>Anal Date &amp; Time :</b> | 03/28/2025 00:44   | 03/27/2025 18:22 |

| 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         | 0.49   | 0.51   | 4     |
| 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         | 0.16   | 0      | 200 * |
| 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         | 0.26   | 0.27   | 3.8   |
| 2-Butanone                     | 0.93   | 0.91   | 2.2   |
| 2-Chlorotoluene                | 0      | 0      | 0     |
| 4-Ethyltoluene                 | 0      | 0      | 0     |
| 4-Methyl-2-Pentanone           | 0.35   | 0.36   | 2.8   |
| Acetone                        | 36.2   | 34.7   | 4.2   |
| Allyl Chloride                 | 0      | 0      | 0     |
| Benzene                        | 0.62   | 0.64   | 3.2   |
| Bromodichloromethane           | 0      | 0      | 0     |
| Bromoform                      | 0      | 0      | 0     |
| Bromomethane                   | 0      | 0      | 0     |
| Carbon Disulfide               | 0      | 0      | 0     |
| Carbon Tetrachloride           | 0.07   | 0.06   | 15.4  |
|                                |        |        |       |



## Duplicate Sample Summary

|                               |                    |                  |
|-------------------------------|--------------------|------------------|
| <b>Lab Sample Id :</b>        | Q1669-01DUP        | Q1669-01         |
| <b>Client Id :</b>            | IA-B9-3-3262025DUP | IA-B9-3-3262025  |
| <b>DF :</b>                   | 1                  | 1                |
| <b>Datafile :</b>             | VL042196.D         | VL042185.D       |
| <b>Anal Date &amp; Time :</b> | 03/28/2025 00:44   | 03/27/2025 18:22 |

| Parameter                 | Result | Result | RPD   |
|---------------------------|--------|--------|-------|
| Chlorobenzene             | 0      | 0      | 0     |
| Chloroethane              | 0      | 0      | 0     |
| Chloroform                | 0      | 0      | 0     |
| Chloromethane             | 0.37   | 0.37   | 0     |
| cis-1,2-Dichloroethene    | 0      | 0      | 0     |
| cis-1,3-Dichloropropene   | 0      | 0      | 0     |
| Cyclohexane               | 0.18   | 0      | 200 * |
| Dibromochloromethane      | 0      | 0      | 0     |
| Dichlorodifluoromethane   | 0.42   | 0.4    | 4.9   |
| Dichlorotetrafluoroethane | 0      | 0      | 0     |
| Ethyl Benzene             | 0.28   | 0.31   | 10.2  |
| Heptane                   | 0.36   | 0.38   | 5.4   |
| Hexachloro-1,3-Butadiene  | 0      | 0      | 0     |
| Hexane                    | 1.8    | 1.9    | 5.4   |
| m/p-Xylene                | 1.1    | 1.1    | 0     |
| Methyl Methacrylate       | 0      | 0      | 0     |
| Methyl tert-Butyl Ether   | 0      | 0      | 0     |
| Methylene Chloride        | 0.36   | 0.36   | 0     |
| Naphthalene               | 0      | 0      | 0     |
| o-Xylene                  | 0.49   | 0.51   | 4     |
| Styrene                   | 0.11   | 0.12   | 8.7   |
| t-1,3-Dichloropropene     | 0      | 0      | 0     |
| tert-Butyl alcohol        | 0.52   | 0.5    | 3.9   |
| Tetrachloroethene         | 0      | 0      | 0     |
| Tetrahydrofuran           | 0      | 0      | 0     |
| Toluene                   | 2.3    | 2.3    | 0     |
| trans-1,2-Dichloroethene  | 0      | 0      | 0     |
| Trichloroethene           | 0      | 0      | 0     |
| Trichlorofluoromethane    | 0.22   | 0.22   | 0     |
| Vinyl Chloride            | 0      | 0      | 0     |

## Duplicate Sample Summary

|                               |                       |                    |
|-------------------------------|-----------------------|--------------------|
| <b>Lab Sample Id :</b>        | Q1669-06DUP           | Q1669-06           |
| <b>Client Id :</b>            | SSSG-DUP-1-3262025DUF | SSSG-DUP-1-3262025 |
| <b>DF :</b>                   | 1                     | 1                  |
| <b>Datafile :</b>             | VL042206.D            | VL042204.D         |
| <b>Anal Date &amp; Time :</b> | 03/31/2025 12:26      | 03/31/2025 11:06   |

| 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         | 1.3    | 1.4    | 7.4 |
| 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         | 0.43   | 0.43   | 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         | 2.3    | 2.3    | 0   |
| 2-Butanone                     | 6.4    | 6.2    | 3.2 |
| 2-Chlorotoluene                | 0      | 0      | 0   |
| 4-Ethyltoluene                 | 0.43   | 0.44   | 2.3 |
| 4-Methyl-2-Pentanone           | 0.41   | 0.4    | 2.5 |
| Acetone                        | 22.2   | 24     | 7.8 |
| Allyl Chloride                 | 0      | 0      | 0   |
| Benzene                        | 5.8    | 5.6    | 3.5 |
| Bromodichloromethane           | 0      | 0      | 0   |
| Bromoform                      | 0      | 0      | 0   |
| Bromomethane                   | 0      | 0      | 0   |
| Carbon Disulfide               | 0      | 0      | 0   |
| Carbon Tetrachloride           | 0.07   | 0.07   | 0   |
|                                |        |        |     |

## Duplicate Sample Summary

|                               |                       |                    |
|-------------------------------|-----------------------|--------------------|
| <b>Lab Sample Id :</b>        | Q1669-06DUP           | Q1669-06           |
| <b>Client Id :</b>            | SSSG-DUP-1-3262025DUF | SSSG-DUP-1-3262025 |
| <b>DF :</b>                   | 1                     | 1                  |
| <b>Datafile :</b>             | VL042206.D            | VL042204.D         |
| <b>Anal Date &amp; Time :</b> | 03/31/2025 12:26      | 03/31/2025 11:06   |

| Parameter                 | Result | Result | RPD   |
|---------------------------|--------|--------|-------|
| Chlorobenzene             | 0      | 0      | 0     |
| Chloroethane              | 0      | 0      | 0     |
| Chloroform                | 0      | 0      | 0     |
| Chloromethane             | 0.42   | 0.43   | 2.4   |
| cis-1,2-Dichloroethene    | 0      | 0      | 0     |
| cis-1,3-Dichloropropene   | 0      | 0      | 0     |
| Cyclohexane               | 1.5    | 1.5    | 0     |
| Dibromochloromethane      | 0      | 0      | 0     |
| Dichlorodifluoromethane   | 0.45   | 0.46   | 2.2   |
| Dichlorotetrafluoroethane | 0      | 0      | 0     |
| Ethyl Benzene             | 1.4    | 1.3    | 7.4   |
| Heptane                   | 1.7    | 1.6    | 6.1   |
| Hexachloro-1,3-Butadiene  | 0      | 0      | 0     |
| Hexane                    | 4.6    | 4.4    | 4.4   |
| m/p-Xylene                | 5.1    | 5.1    | 0     |
| Methyl Methacrylate       | 0      | 0      | 0     |
| Methyl tert-Butyl Ether   | 0      | 0      | 0     |
| Methylene Chloride        | 0.53   | 0.51   | 3.8   |
| Naphthalene               | 0.37   | 0.43   | 15    |
| o-Xylene                  | 1.9    | 1.9    | 0     |
| Styrene                   | 1.4    | 1.4    | 0     |
| t-1,3-Dichloropropene     | 0      | 0      | 0     |
| tert-Butyl alcohol        | 0      | 0      | 0     |
| Tetrachloroethene         | 0.04   | 0      | 200 * |
| Tetrahydrofuran           | 1.9    | 2      | 5.1   |
| Toluene                   | 10     | 9.7    | 3     |
| trans-1,2-Dichloroethene  | 0      | 0      | 0     |
| Trichloroethene           | 0      | 0      | 0     |
| Trichlorofluoromethane    | 0.19   | 0.2    | 5.1   |
| Vinyl Chloride            | 0      | 0      | 0     |

### Duplicate Sample Summary

|                               |                  |                  |
|-------------------------------|------------------|------------------|
| <b>Lab Sample Id :</b>        | Q1669-09DUP      | Q1669-09         |
| <b>Client Id :</b>            | AA-2-3262025DUP  | AA-2-3262025     |
| <b>DF :</b>                   | 1                | 1                |
| <b>Datafile :</b>             | VL042190.D       | VL042189.D       |
| <b>Anal Date &amp; Time :</b> | 03/27/2025 21:24 | 03/27/2025 20:48 |

| 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         | 0.29   | 0.29   | 0      |
| 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                     | 0.23   | 0.18   | 24.4 * |
| 2-Chlorotoluene                | 0      | 0      | 0      |
| 4-Ethyltoluene                 | 0      | 0      | 0      |
| 4-Methyl-2-Pentanone           | 0      | 0      | 0      |
| Acetone                        | 2.3    | 2.5    | 8.3    |
| Allyl Chloride                 | 0      | 0      | 0      |
| Benzene                        | 0.15   | 0.13   | 14.3   |
| Bromodichloromethane           | 0      | 0      | 0      |
| Bromoform                      | 0      | 0      | 0      |
| Bromomethane                   | 0      | 0      | 0      |
| Carbon Disulfide               | 0      | 0      | 0      |
| Carbon Tetrachloride           | 0.07   | 0.07   | 0      |
|                                |        |        |        |

## Duplicate Sample Summary

|                               |                  |                  |
|-------------------------------|------------------|------------------|
| <b>Lab Sample Id :</b>        | Q1669-09DUP      | Q1669-09         |
| <b>Client Id :</b>            | AA-2-3262025DUP  | AA-2-3262025     |
| <b>DF :</b>                   | 1                | 1                |
| <b>Datafile :</b>             | VL042190.D       | VL042189.D       |
| <b>Anal Date &amp; Time :</b> | 03/27/2025 21:24 | 03/27/2025 20:48 |

| Parameter                 | Result | Result | RPD   |
|---------------------------|--------|--------|-------|
| Chlorobenzene             | 0      | 0      | 0     |
| Chloroethane              | 0      | 0      | 0     |
| Chloroform                | 0      | 0      | 0     |
| Chloromethane             | 0.45   | 0.44   | 2.2   |
| cis-1,2-Dichloroethene    | 0      | 0      | 0     |
| cis-1,3-Dichloropropene   | 0      | 0      | 0     |
| Cyclohexane               | 0      | 0      | 0     |
| Dibromochloromethane      | 0      | 0      | 0     |
| Dichlorodifluoromethane   | 0.43   | 0.45   | 4.5   |
| Dichlorotetrafluoroethane | 0      | 0      | 0     |
| Ethyl Benzene             | 0      | 0      | 0     |
| Heptane                   | 0      | 0      | 0     |
| Hexachloro-1,3-Butadiene  | 0      | 0      | 0     |
| Hexane                    | 3.9    | 4.5    | 14.3  |
| m/p-Xylene                | 0.13   | 0      | 200 * |
| Methyl Methacrylate       | 0      | 0      | 0     |
| Methyl tert-Butyl Ether   | 0      | 0      | 0     |
| Methylene Chloride        | 6.4    | 7      | 9     |
| Naphthalene               | 0      | 0      | 0     |
| o-Xylene                  | 0      | 0      | 0     |
| Styrene                   | 0      | 0      | 0     |
| t-1,3-Dichloropropene     | 0      | 0      | 0     |
| tert-Butyl alcohol        | 0      | 0      | 0     |
| Tetrachloroethene         | 0      | 0      | 0     |
| Tetrahydrofuran           | 0      | 0      | 0     |
| Toluene                   | 0.33   | 0.34   | 3     |
| trans-1,2-Dichloroethene  | 0      | 0      | 0     |
| Trichloroethene           | 0      | 0      | 0     |
| Trichlorofluoromethane    | 0.2    | 0.22   | 9.5   |
| Vinyl Chloride            | 0      | 0      | 0     |

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0327ABL01

Lab Name: CHEMTECH

Contract: WOOD06

Lab Code: CHEM Case No.: Q1669

SAS No.: Q1669 SDG NO.: Q1669

Lab File ID: VL042180.D

Lab Sample ID: VL0327ABL01

Date Analyzed: 03/27/2025

Time Analyzed: 13:50

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 |
|----------------------|------------------|----------------|------------------|
| VL0327ABS01          | VL0327ABS01      | VL042181.D     | 03/27/2025       |
| IA-B9-3-3262025      | Q1669-01         | VL042185.D     | 03/27/2025       |
| IA-B9-2-3262025      | Q1669-02         | VL042186.D     | 03/27/2025       |
| IA-B9-1-3262025      | Q1669-03         | VL042187.D     | 03/27/2025       |
| AA-1-3262025         | Q1669-04         | VL042188.D     | 03/27/2025       |
| AA-2-3262025         | Q1669-09         | VL042189.D     | 03/27/2025       |
| AA-2-3262025DUP      | Q1669-09DUP      | VL042190.D     | 03/27/2025       |
| SSSG-B16-1-3262025DL | Q1669-07DL       | VL042192.D     | 03/27/2025       |
| IA-B9-3-3262025DL    | Q1669-01DL       | VL042195.D     | 03/28/2025       |
| IA-B9-3-3262025DUP   | Q1669-01DUP      | VL042196.D     | 03/28/2025       |
| SSSG-B16-3-3262025   | Q1669-05         | VL042197.D     | 03/28/2025       |
| SSSG-B16-1-3262025   | Q1669-07         | VL042198.D     | 03/28/2025       |
| SSSG-B16-2-3262025   | Q1669-08         | VL042199.D     | 03/28/2025       |

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0331ABL01

Lab Name: CHEMTECH

Contract: WOOD06

Lab Code: CHEM Case No.: Q1669

SAS No.: Q1669 SDG NO.: Q1669

Lab File ID: VL042202.D

Lab Sample ID: VL0331ABL01

Date Analyzed: 03/31/2025

Time Analyzed: 09:34

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 |
|-----------------------|------------------|----------------|------------------|
| VL0331ABS01           | VL0331ABS01      | VL042203.D     | 03/31/2025       |
| SSSG-DUP-1-3262025    | Q1669-06         | VL042204.D     | 03/31/2025       |
| SSSG-DUP-1-3262025DL  | Q1669-06DL       | VL042205.D     | 03/31/2025       |
| SSSG-DUP-1-3262025DUP | Q1669-06DUP      | VL042206.D     | 03/31/2025       |

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



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06  
Lab Code: CHEM Case No.: Q1669 SAS No.: Q1669 SDG NO.: Q1669  
Lab File ID: VL042171.D BFB Injection Date: 03/27/2025  
Instrument ID: MSVOA\_L BFB Injection Time: 07:44  
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                   |
| 75  | 30.0 - 66.0% of mass 95            | 56.3                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.6                  |
| 173 | Less than 2.0% of mass 174         | 0.0 ( 0.0 ) 1        |
| 174 | 50.0 - 120.0% of mass 95           | 63.8                 |
| 175 | 4.0 - 9.0% of mass 174             | 5.1 ( 8 ) 1          |
| 176 | 93.0 - 101.0% of mass 174          | 61.1 ( 95.7 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.2 ( 6.8 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA<br>SAMPLE NO.    | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----------------------|------------------|----------------|------------------|------------------|
| VSTDICCC010          | VSTDICCC010      | VL042172.D     | 03/27/2025       | 08:26            |
| VSTDICCC002          | VSTDICCC002      | VL042173.D     | 03/27/2025       | 08:59            |
| VSTDICCC001          | VSTDICCC001      | VL042174.D     | 03/27/2025       | 09:30            |
| VSTDICCC0.5          | VSTDICCC0.5      | VL042175.D     | 03/27/2025       | 10:01            |
| VSTDICCC0.1          | VSTDICCC0.1      | VL042176.D     | 03/27/2025       | 10:32            |
| VSTDICCC0.03         | VSTDICCC0.03     | VL042177.D     | 03/27/2025       | 11:03            |
| VSTDICCC015          | VSTDICCC015      | VL042178.D     | 03/27/2025       | 11:36            |
| VL0327ABL01          | VL0327ABL01      | VL042180.D     | 03/27/2025       | 13:50            |
| VL0327ABS01          | VL0327ABS01      | VL042181.D     | 03/27/2025       | 14:39            |
| IA-B9-3-3262025      | Q1669-01         | VL042185.D     | 03/27/2025       | 18:22            |
| IA-B9-2-3262025      | Q1669-02         | VL042186.D     | 03/27/2025       | 18:59            |
| IA-B9-1-3262025      | Q1669-03         | VL042187.D     | 03/27/2025       | 19:36            |
| AA-1-3262025         | Q1669-04         | VL042188.D     | 03/27/2025       | 20:12            |
| AA-2-3262025         | Q1669-09         | VL042189.D     | 03/27/2025       | 20:48            |
| AA-2-3262025DUP      | Q1669-09DUP      | VL042190.D     | 03/27/2025       | 21:24            |
| SSSG-B16-1-3262025DL | Q1669-07DL       | VL042192.D     | 03/27/2025       | 22:29            |
| IA-B9-3-3262025DL    | Q1669-01DL       | VL042195.D     | 03/28/2025       | 00:06            |
| IA-B9-3-3262025DUP   | Q1669-01DUP      | VL042196.D     | 03/28/2025       | 00:44            |

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06  
Lab Code: CHEM Case No.: Q1669 SAS No.: Q1669 SDG NO.: Q1669  
Lab File ID: VL042171.D BFB Injection Date: 03/27/2025  
Instrument ID: MSVOA\_L BFB Injection Time: 07:44  
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                   |
| 75  | 30.0 - 66.0% of mass 95            | 56.3                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.6                  |
| 173 | Less than 2.0% of mass 174         | 0.0 ( 0.0 ) 1        |
| 174 | 50.0 - 120.0% of mass 95           | 63.8                 |
| 175 | 4.0 - 9.0% of mass 174             | 5.1 ( 8 ) 1          |
| 176 | 93.0 - 101.0% of mass 174          | 61.1 ( 95.7 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.2 ( 6.8 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA<br>SAMPLE NO.  | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|--------------------|------------------|----------------|------------------|------------------|
| SSSG-B16-3-3262025 | Q1669-05         | VL042197.D     | 03/28/2025       | 01:20            |
| SSSG-B16-1-3262025 | Q1669-07         | VL042198.D     | 03/28/2025       | 01:57            |
| SSSG-B16-2-3262025 | Q1669-08         | VL042199.D     | 03/28/2025       | 02:33            |

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06  
Lab Code: CHEM Case No.: Q1669 SAS No.: Q1669 SDG NO.: Q1669  
Lab File ID: VL042200.D BFB Injection Date: 03/31/2025  
Instrument ID: MSVOA\_L BFB Injection Time: 08:09  
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             | 25.4                 |
| 75  | 30.0 - 66.0% of mass 95            | 61.8                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.5                  |
| 173 | Less than 2.0% of mass 174         | 0.3 ( 0.5 ) 1        |
| 174 | 50.0 - 120.0% of mass 95           | 59.4                 |
| 175 | 4.0 - 9.0% of mass 174             | 4.5 ( 7.6 ) 1        |
| 176 | 93.0 - 101.0% of mass 174          | 57.9 ( 97.6 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 3.8 ( 6.6 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA<br>SAMPLE NO.     | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-----------------------|------------------|----------------|------------------|------------------|
| VSTDCCC010            | VSTDCCC010       | VL042201.D     | 03/31/2025       | 08:51            |
| VL0331ABL01           | VL0331ABL01      | VL042202.D     | 03/31/2025       | 09:34            |
| VL0331ABS01           | VL0331ABS01      | VL042203.D     | 03/31/2025       | 10:17            |
| SSSG-DUP-1-3262025    | Q1669-06         | VL042204.D     | 03/31/2025       | 11:06            |
| SSSG-DUP-1-3262025DL  | Q1669-06DL       | VL042205.D     | 03/31/2025       | 11:52            |
| SSSG-DUP-1-3262025DUP | Q1669-06DUP      | VL042206.D     | 03/31/2025       | 12:26            |

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06  
Lab Code: CHEM Case No.: Q1669 SAS No.: Q1669 SDG NO.: Q1669  
Lab File ID: VL042172.D Date Analyzed: 03/27/2025  
Instrument ID: MSVOA\_L Time Analyzed: 08:26  
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          | 187002        | 2.78 | 545068        | 3.95 | 519536        | 8.88 |
| UPPER LIMIT          | 261803        | 3.11 | 763095        | 4.28 | 727350        | 9.21 |
| LOWER LIMIT          | 112201        | 2.45 | 327041        | 3.62 | 311722        | 8.55 |
| EPA SAMPLE NO.       |               |      |               |      |               |      |
| IA-B9-3-3262025      | 182164        | 2.79 | 537249        | 3.96 | 488802        | 8.89 |
| IA-B9-3-3262025DL    | 175494        | 2.78 | 495493        | 3.96 | 449375        | 8.88 |
| IA-B9-3-3262025DUP   | 169076        | 2.78 | 480272        | 3.96 | 439128        | 8.88 |
| IA-B9-2-3262025      | 187729        | 2.78 | 538422        | 3.96 | 491411        | 8.88 |
| IA-B9-1-3262025      | 185410        | 2.78 | 523694        | 3.96 | 484321        | 8.88 |
| AA-1-3262025         | 185847        | 2.79 | 529516        | 3.96 | 474604        | 8.88 |
| SSSG-B16-3-3262025   | 172645        | 2.79 | 493948        | 3.97 | 445312        | 8.89 |
| SSSG-B16-1-3262025   | 175214        | 2.79 | 504192        | 3.96 | 456695        | 8.88 |
| SSSG-B16-1-3262025DL | 182834        | 2.79 | 517445        | 3.96 | 472334        | 8.88 |
| SSSG-B16-2-3262025   | 181183        | 2.79 | 509062        | 3.96 | 458107        | 8.88 |
| AA-2-3262025         | 185013        | 2.79 | 523099        | 3.96 | 477151        | 8.88 |
| AA-2-3262025DUP      | 184637        | 2.79 | 532429        | 3.96 | 472897        | 8.88 |
| VL0327ABL01          | 170921        | 2.79 | 483563        | 3.96 | 446480        | 8.88 |
| VL0327ABS01          | 166105        | 2.79 | 483209        | 3.96 | 452250        | 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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06  
Lab Code: CHEM Case No.: Q1669 SAS No.: Q1669 SDG NO.: Q1669  
Lab File ID: VL042201.D Date Analyzed: 03/31/2025  
Instrument ID: MSVOA\_L Time Analyzed: 08:51  
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           | 161478        | 2.80 | 460403        | 3.98 | 424671        | 8.90 |
| UPPER LIMIT           | 226069        | 3.13 | 644564        | 4.31 | 594539        | 9.23 |
| LOWER LIMIT           | 96886.8       | 2.47 | 276242        | 3.65 | 254803        | 8.57 |
| EPA SAMPLE NO.        |               |      |               |      |               |      |
| SSSG-DUP-1-3262025    | 184538        | 2.81 | 528809        | 3.98 | 477707        | 8.91 |
| SSSG-DUP-1-3262025DL  | 188934        | 2.80 | 537109        | 3.99 | 480959        | 8.91 |
| SSSG-DUP-1-3262025DUP | 184777        | 2.81 | 533717        | 3.99 | 486289        | 8.91 |
| VL0331ABL01           | 181807        | 2.80 | 517775        | 3.98 | 464953        | 8.90 |
| VL0331ABS01           | 175685        | 2.80 | 498986        | 3.98 | 456400        | 8.90 |

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

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

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



# SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | IA-B9-3-3262025                                 | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-01                                        | 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 |
| VL042185.D        | 1         |           | 03/27/25 18:22 | VL032725      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.40          | 1.98           | J         | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.37          | 0.76           | 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         | 0.22          | 1.24           | 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             | 0.50          | 1.52           |           | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 0.38          | 1.56           | J         | 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                        | 34.7          | 82.4           | E         | 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             | 0.36          | 1.25           | 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                     | 0.91          | 2.68           |           | 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         | 0.27          | 1.26           | J         | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 0.64          | 2.04           |           | 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           | 0.36          | 1.48           | J         | 0.37  | 2.05       | ug/m3 |
| 108-88-3       | Toluene                        | 2.30          | 8.67           |           | 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:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | IA-B9-3-3262025                                 | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-01                                        | 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 |
| VL042185.D        | 1         |           | 03/27/25 18:22 | VL032725      |

| 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             | 0.31          | 1.35           | J         | 0.52                | 2.17       | ug/m3   |
| 179601-23-1                           | m/p-Xylene                | 1.10          | 4.78           |           | 0.91                | 4.34       | ug/m3   |
| 95-47-6                               | o-Xylene                  | 0.51          | 2.22           |           | 0.52                | 2.17       | ug/m3   |
| 100-42-5                              | Styrene                   | 0.12          | 0.51           | J         | 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    | 0.51          | 2.51           |           | 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                    | 1.90          | 6.70           |           | 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   | 9.90          |                |           | 70 (65) - 130 (135) | 99%        | SPK: 10 |
| <b>INTERNAL STANDARDS</b>             |                           |               |                |           |                     |            |         |
| 74-97-5                               | Bromochloromethane        | 182000        |                | 2.791     |                     |            |         |
| 540-36-3                              | 1,4-Difluorobenzene       | 537000        |                | 3.962     |                     |            |         |
| 3114-55-4                             | Chlorobenzene-d5          | 489000        |                | 8.885     |                     |            |         |
| <b>TENTITIVE IDENTIFIED COMPOUNDS</b> |                           |               |                |           |                     |            |         |
| 75-45-6                               | Chlorodifluoromethane     | 0.27          |                | J         |                     | 1.48       | ppbv    |
| 115-07-1                              | Propene                   | 0.79          |                | J         |                     | 1.48       | ppbv    |
| 000115-11-7                           | 1-Propene, 2-methyl-      | 3.30          |                | J         |                     | 1.60       | ppbv    |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | IA-B9-3-3262025                                 | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-01                                        | 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 |
| VL042185.D        | 1         |           | 03/27/25 18:22 | VL032725      |

| CAS Number  | Parameter          | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|-------------|--------------------|---------------|----------------|-----------|-----|------------|-------|
|             | unknown1.774       | 1.40          |                | J         |     | 1.77       | ppbv  |
| 000109-66-0 | Pentane            | 1.80          |                | J         |     | 1.97       | ppbv  |
| 000107-83-5 | Pentane, 2-methyl- | 2.50          |                | J         |     | 2.47       | ppbv  |
| 000096-14-0 | Pentane, 3-methyl- | 1.60          |                | J         |     | 2.63       | ppbv  |
| 103-65-1    | n-propylbenzene    | 0.10          |                | J         |     | 11.0       | ppbv  |

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\VL032725\  
 Data File : VL042185.D  
 Acq On : 27 Mar 2025 18:22  
 Operator : SY/MD  
 Sample : Q1669-01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-3-3262025

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:14:56 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       | 2.791  | 49    | 182164   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.962  | 114   | 537249   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.885  | 117   | 488802   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 399253   | 9.946    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 99.500%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.499  | 85    | 10784    | 0.401    | ppbv   | 94       |
| 3) Chlorodifluoromethane    | 1.476  | 51    | 7336m    | 0.267    | ppbv   |          |
| 4) Chloromethane            | 1.532  | 50    | 4102     | 0.373    | ppbv   | 97       |
| 9) Propene                  | 1.483  | 41    | 9886     | 0.785    | ppbv   | 90       |
| 10) Heptane                 | 4.982  | 43    | 12733m   | 0.380    | ppbv   |          |
| 11) Trichlorofluoromethane  | 1.881  | 101   | 5615     | 0.215    | ppbv   | 98       |
| 13) Ethanol                 | 1.722  | 45    | 66284    | 55.675   | ppbv   | 87       |
| 15) Acetone                 | 1.836  | 43    | 884107   | 34.703   | ppbv   | 98       |
| 17) tert-Butyl alcohol      | 2.043  | 59    | 15704    | 0.495    | ppbv # | 88       |
| 20) Methylene Chloride      | 2.062  | 84    | 3433     | 0.362    | ppbv # | 83       |
| 26) Hexane                  | 2.829  | 57    | 49383    | 1.934    | ppbv # | 35       |
| 30) Cyclohexane             | 3.855  | 84    | 4259m    | 0.192    | ppbv   |          |
| 34) 2-Butanone              | 2.561  | 43    | 35584    | 0.913    | ppbv   | 98       |
| 35) Carbon Tetrachloride    | 3.765  | 117   | 2627     | 0.063    | ppbv   | 91       |
| 36) Benzene                 | 3.661  | 78    | 34017    | 0.639    | ppbv # | 92       |
| 44) 2,2,4-Trimethylpentane  | 4.648  | 57    | 23919m   | 0.266    | ppbv   |          |
| 50) 4-Methyl-2-Pentanone    | 5.781  | 43    | 22175m   | 0.359    | ppbv   |          |
| 53) Toluene                 | 6.937  | 91    | 146384   | 2.319    | ppbv   | 99       |
| 58) Ethyl Benzene           | 9.358  | 91    | 27191    | 0.313    | ppbv   | 95       |
| 59) m/p-Xylene              | 9.533  | 91    | 73715m   | 1.063    | ppbv   |          |
| 60) o-Xylene                | 9.966  | 91    | 35115    | 0.505    | ppbv   | 99       |
| 61) Styrene                 | 9.872  | 104   | 4273     | 0.124    | ppbv   | 91       |
| 64) n-propylbenzene         | 10.992 | 120   | 2677     | 0.100    | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene  | 11.539 | 105   | 44446    | 0.510    | ppbv # | 64       |

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

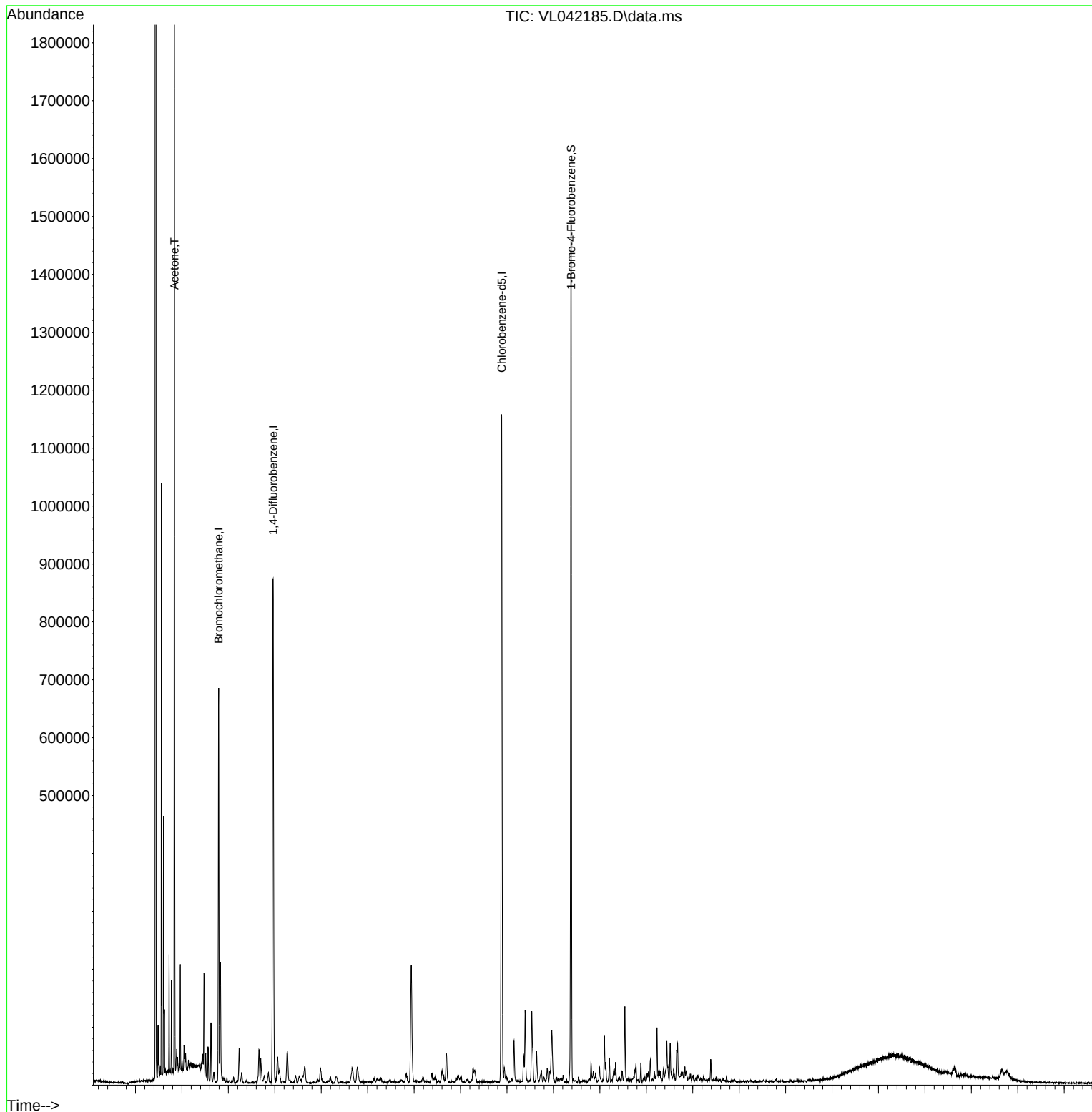
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Data File : VL042185.D  
Acq On : 27 Mar 2025 18:22  
Operator : SY/MD  
Sample : Q1669-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

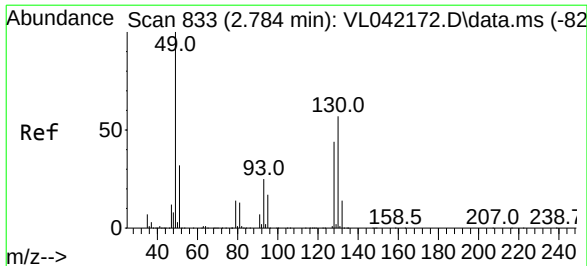
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

Quant Time: Mar 28 02:14:56 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 02:00:52 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

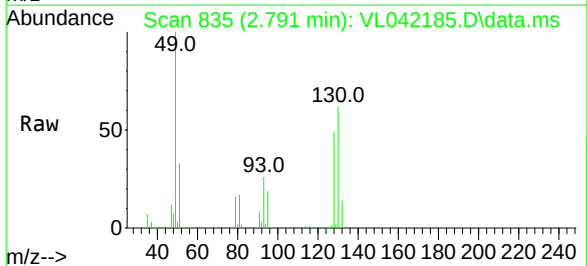
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.791 min Scan# 833  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

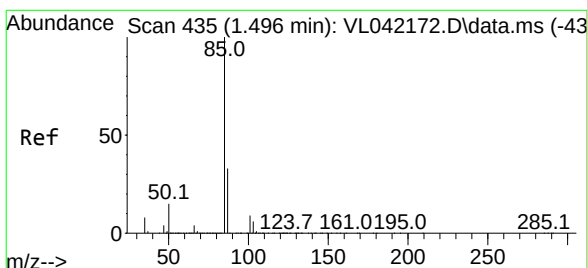
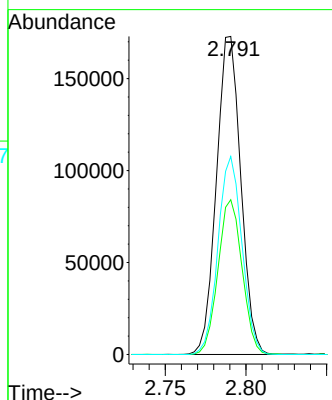
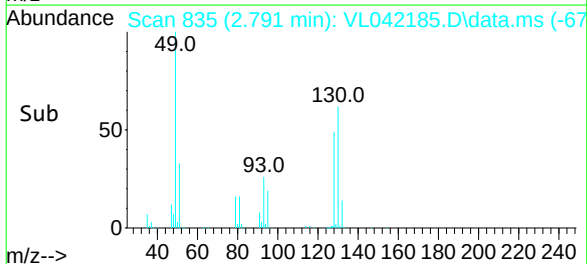
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025



Tgt Ion: 49 Resp: 182164  
Ion Ratio Lower Upper  
49 100  
128 47.9 22.9 68.5  
130 61.0 28.8 86.4

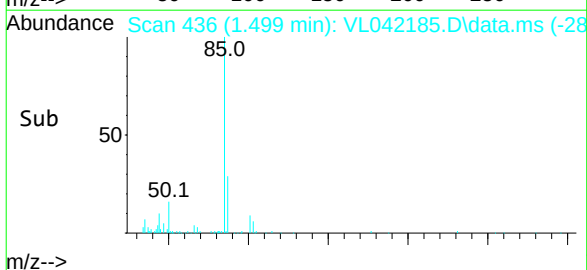
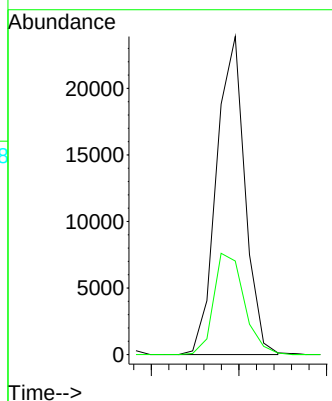
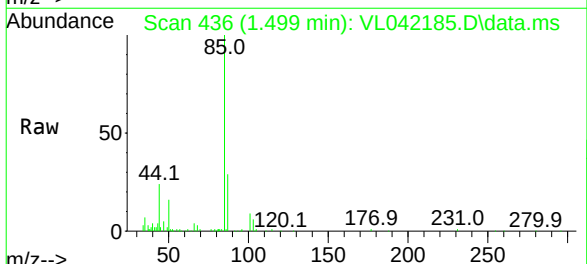
Manual Integrations  
APPROVED

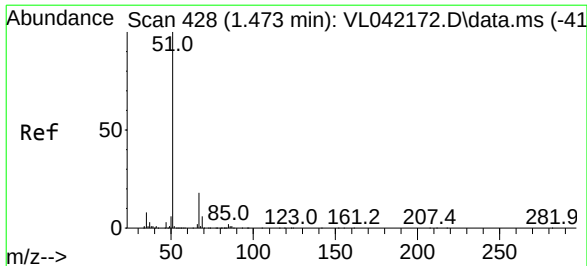
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#2  
Dichlorodifluoromethane  
Concen: 0.401 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.003 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 85 Resp: 10784  
Ion Ratio Lower Upper  
85 100  
87 29.4 26.1 39.1





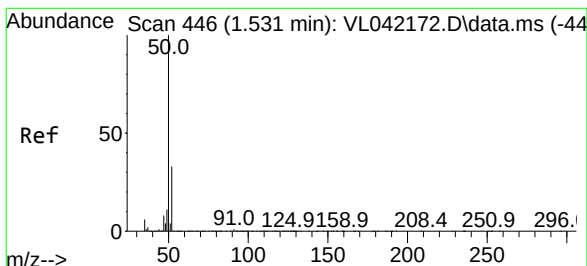
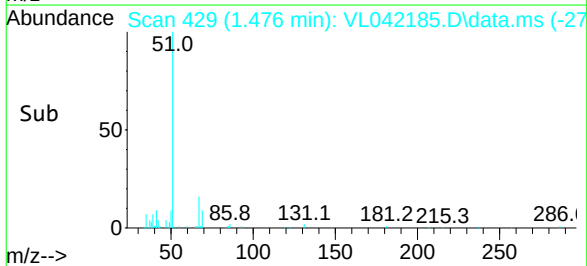
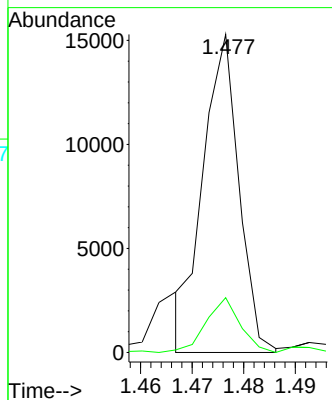
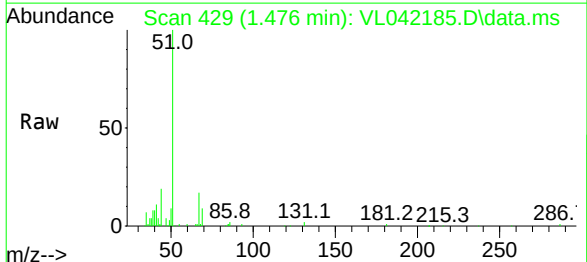
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Chlorodifluoromethane  
Concen: 0.267 ppbv m  
RT: 1.476 min Scan# 428  
Delta R.T. 0.003 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

Tgt Ion: 51 Resp: 7336  
Ion Ratio Lower Upper  
51 100  
67 18.9 15.0 22.6

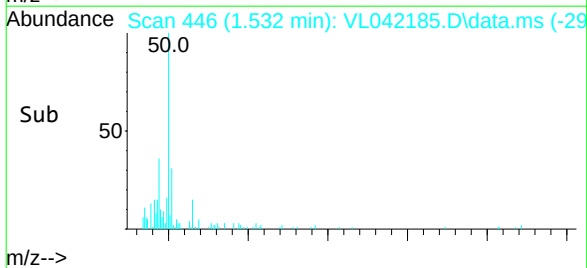
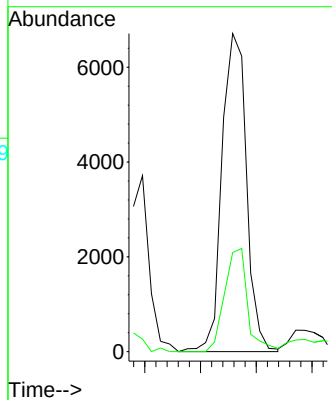
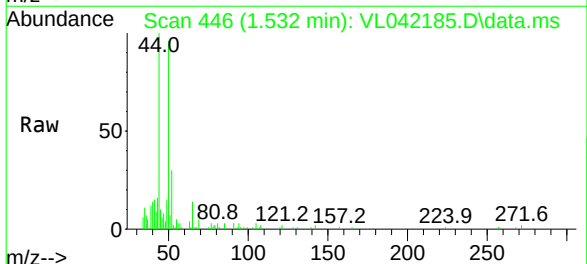
Manual Integrations  
APPROVED

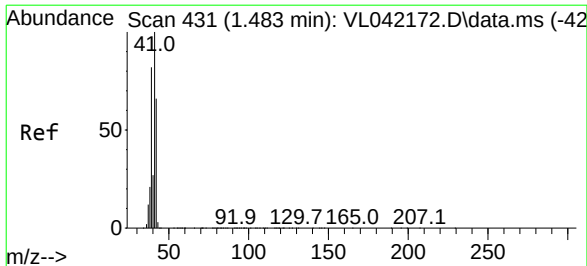
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#4  
Chloromethane  
Concen: 0.373 ppbv  
RT: 1.532 min Scan# 446  
Delta R.T. 0.000 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 50 Resp: 4102  
Ion Ratio Lower Upper  
50 100  
52 31.2 26.1 39.1





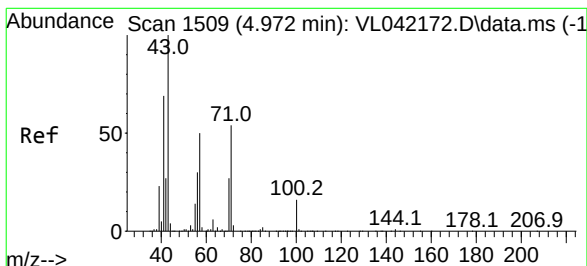
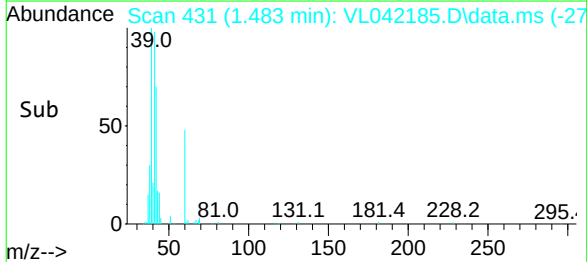
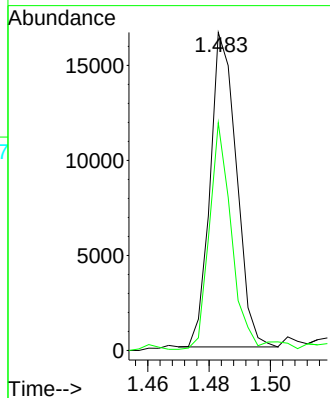
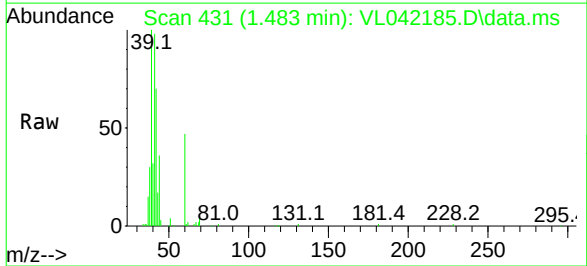
#9  
 Propene  
 Concen: 0.785 ppbv  
 RT: 1.483 min Scan# 431  
 Delta R.T. 0.000 min  
 Lab File: VL042185.D  
 Acq: 27 Mar 2025 18:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-3-3262025

Tgt Ion: 41 Resp: 9886  
 Ion Ratio Lower Upper  
 41 100  
 42 61.2 55.4 83.2

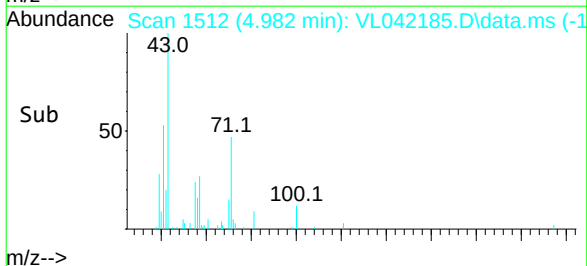
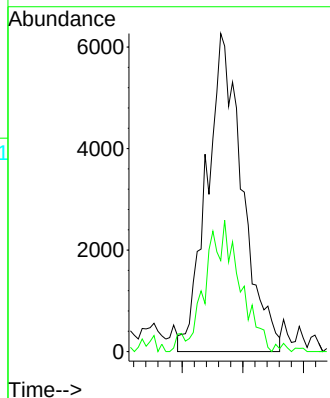
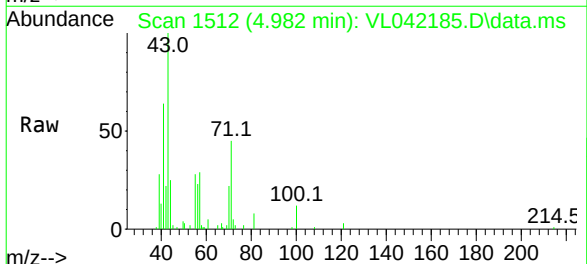
Manual Integrations  
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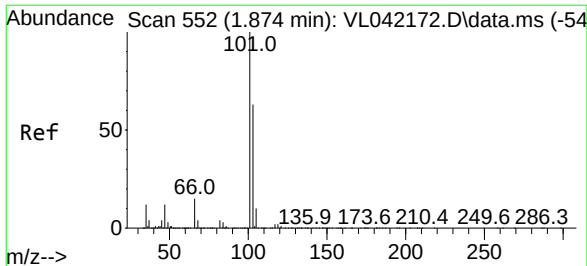
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#10  
 Heptane  
 Concen: 0.380 ppbv m  
 RT: 4.982 min Scan# 1512  
 Delta R.T. 0.010 min  
 Lab File: VL042185.D  
 Acq: 27 Mar 2025 18:22

Tgt Ion: 43 Resp: 12733  
 Ion Ratio Lower Upper  
 43 100  
 57 42.8 39.4 59.2





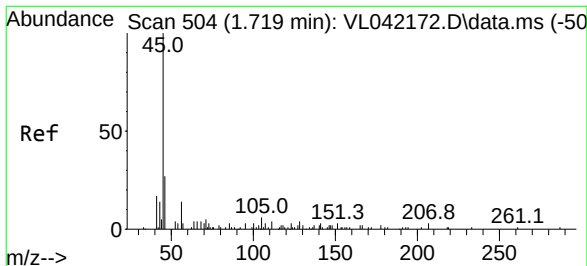
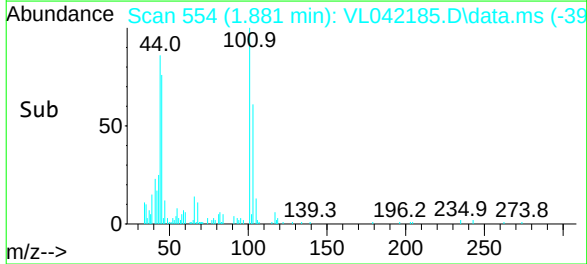
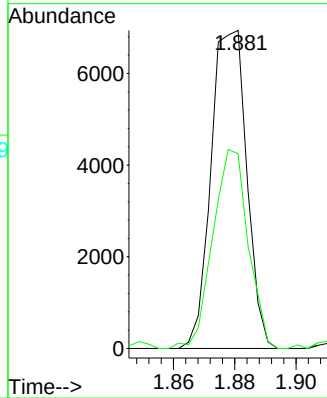
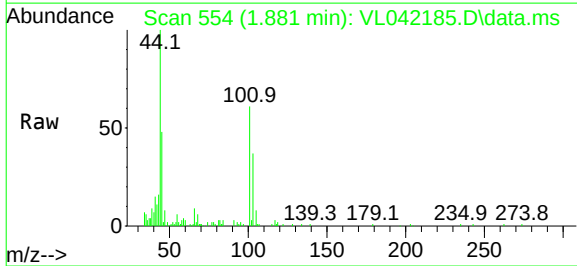
#11  
Trichlorofluoromethane  
Concen: 0.215 ppbv  
RT: 1.881 min Scan# 552  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

Tgt Ion: 101 Resp: 5615  
Ion Ratio Lower Upper  
101 100  
103 61.3 50.2 75.2

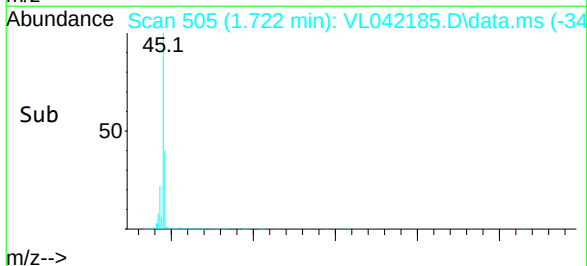
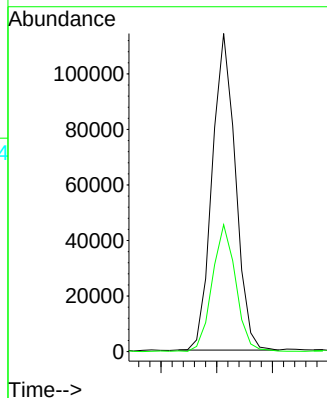
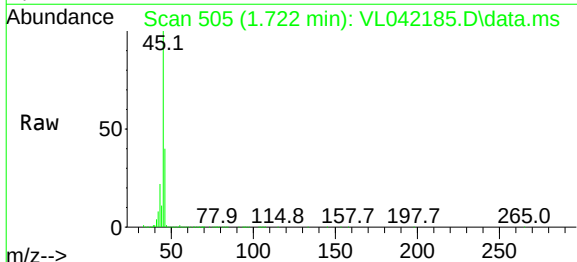
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Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

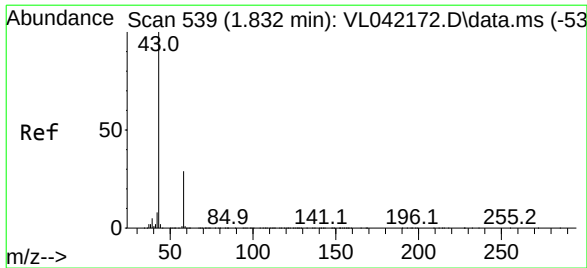


#13  
Ethanol  
Concen: 55.675 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.003 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 45 Resp: 66284  
Ion Ratio Lower Upper  
45 100  
46 41.8 20.2 80.8







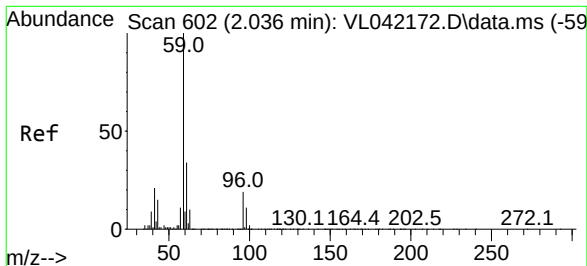
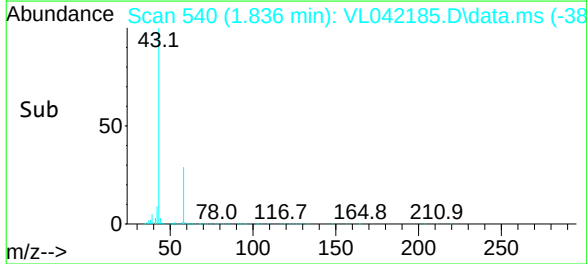
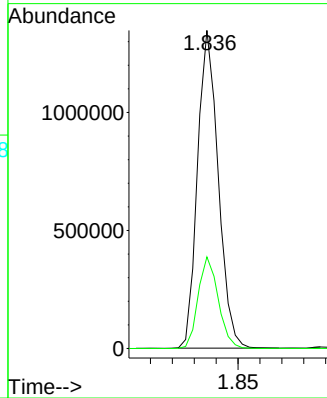
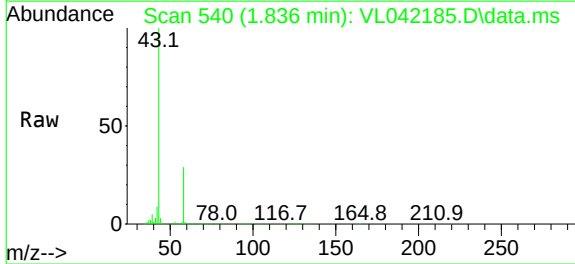
#15  
Acetone  
Concen: 34.703 ppbv  
RT: 1.836 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

Tgt Ion: 43 Resp: 884107  
Ion Ratio Lower Upper  
43 100  
58 28.0 23.2 34.8

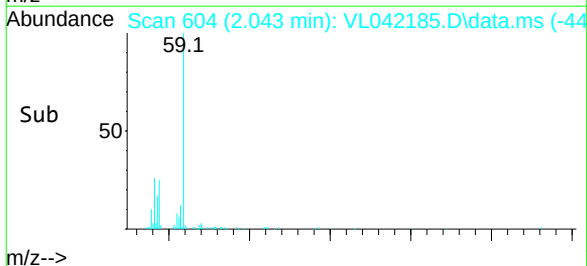
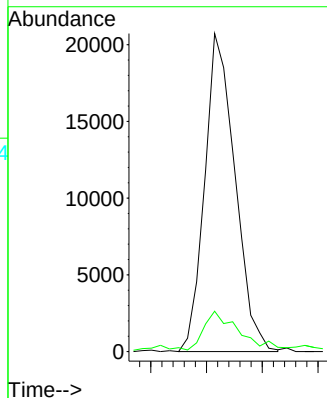
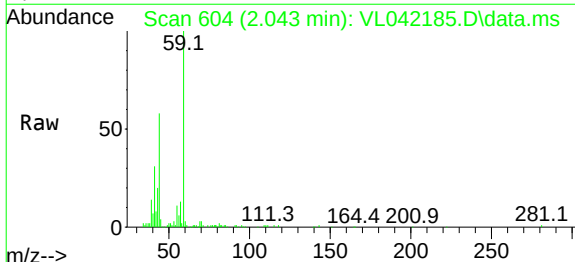
Manual Integrations  
APPROVED

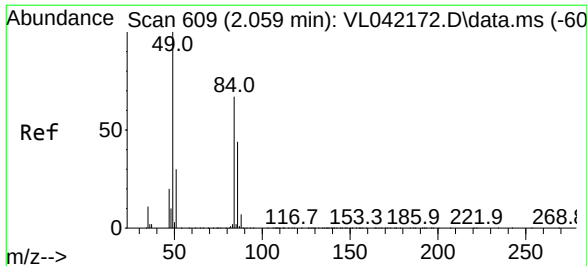
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#17  
tert-Butyl alcohol  
Concen: 0.495 ppbv  
RT: 2.043 min Scan# 604  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

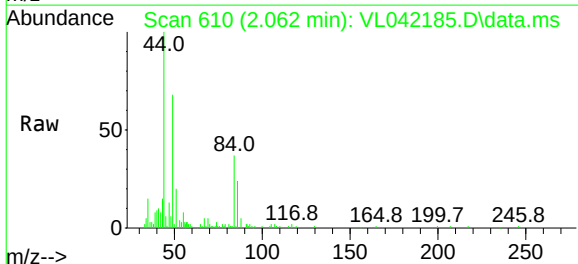
Tgt Ion: 59 Resp: 15704  
Ion Ratio Lower Upper  
59 100  
57 15.8 8.9 13.3#





#20  
Methylene Chloride  
Concen: 0.362 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

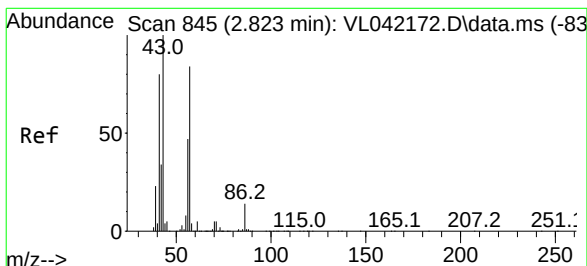
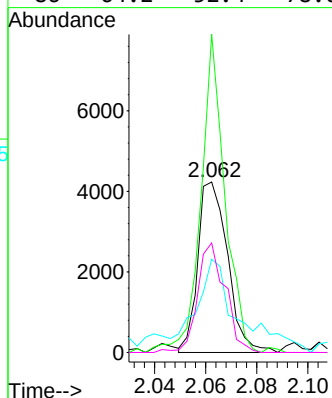
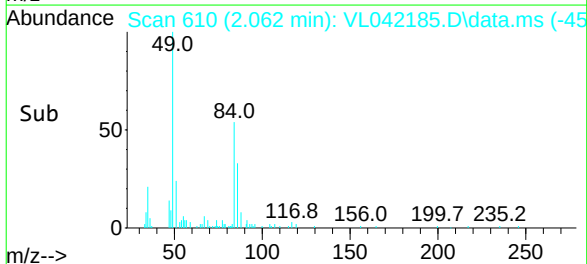
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025



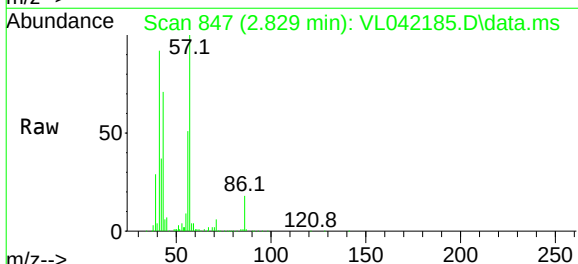
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 184.6 | 120.2 | 180.4 |
| 51      | 43.8  | 37.4  | 56.0  |
| 86      | 64.2  | 52.4  | 78.6  |

Manual Integrations  
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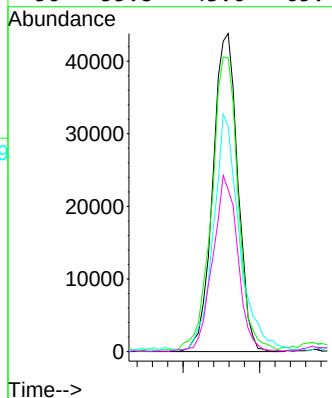
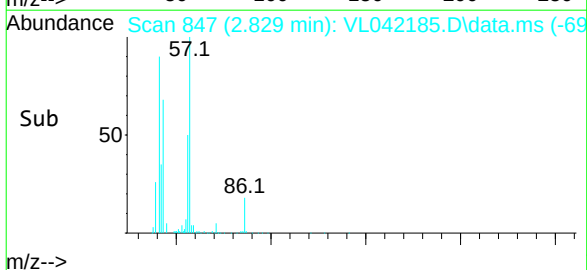
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

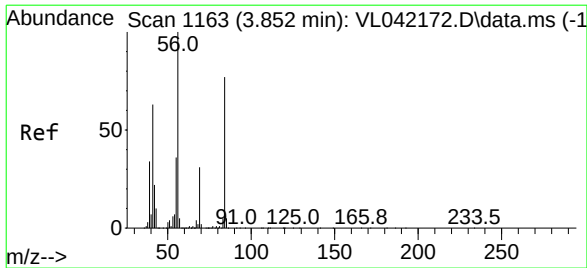


#26  
Hexane  
Concen: 1.934 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 97.4  | 76.6  | 114.8 |
| 43      | 78.3  | 207.8 | 311.8 |
| 56      | 55.8  | 43.6  | 65.4  |





#30

Cyclohexane

Concen: 0.192 ppbv m

RT: 3.855 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042185.D

Acq: 27 Mar 2025 18:22

Instrument :

MSVOA\_L

ClientSampleId :

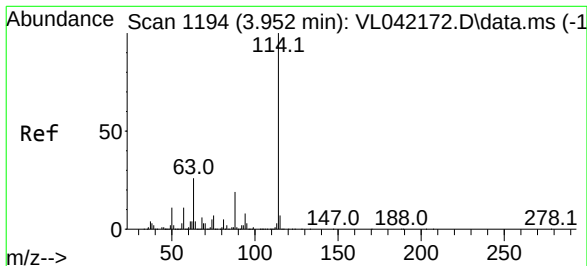
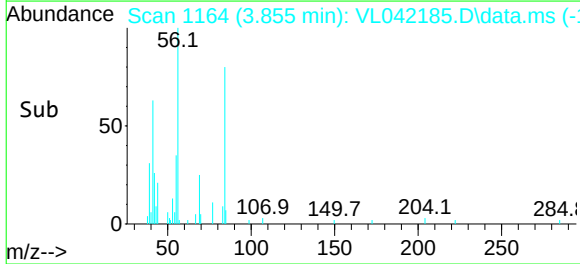
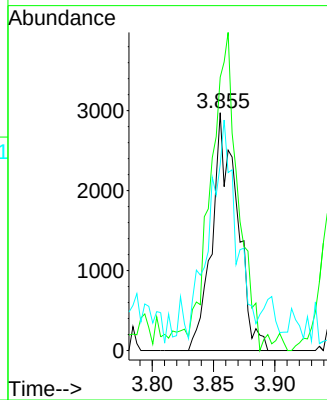
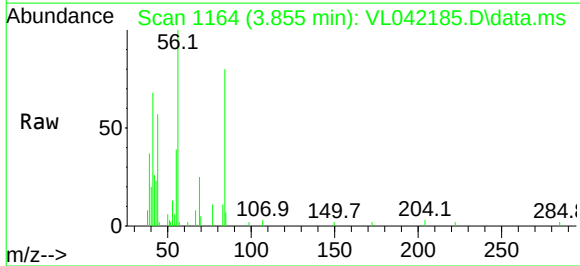
IA-B9-3-3262025

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 84    | Resp: | 4259   |
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 56        | 154.4 | 102.8 | 154.2# |
| 41        | 0.0   | 66.5  | 99.7#  |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

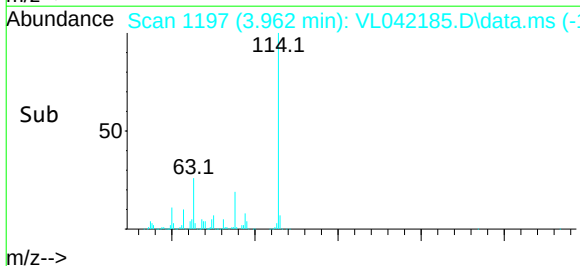
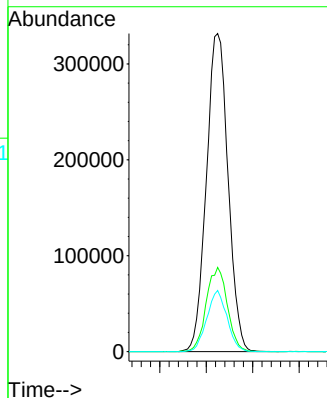
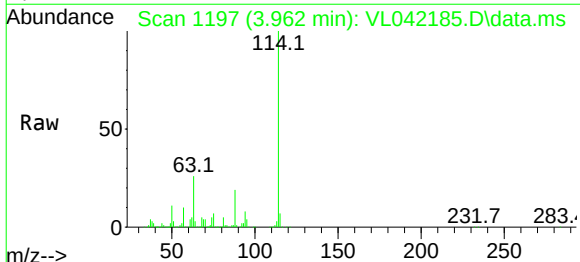
RT: 3.962 min Scan# 1197

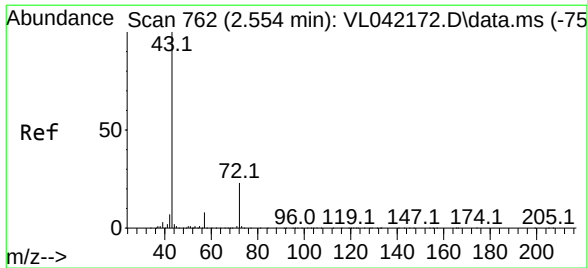
Delta R.T. 0.010 min

Lab File: VL042185.D

Acq: 27 Mar 2025 18:22

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 537249 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 25.8  | 20.7  | 31.1   |
| 88        | 17.9  | 15.0  | 22.4   |





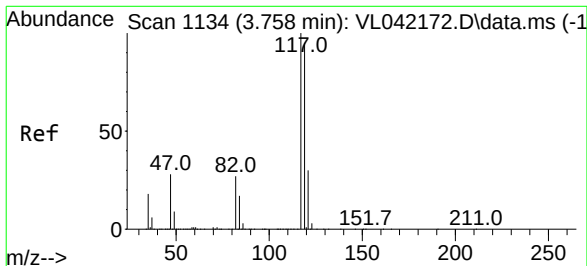
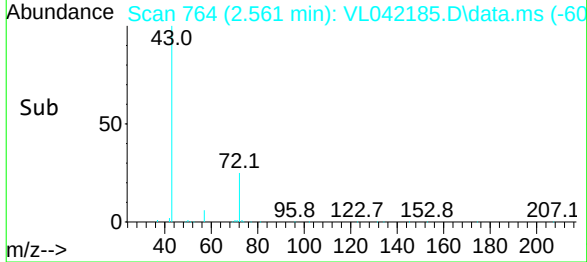
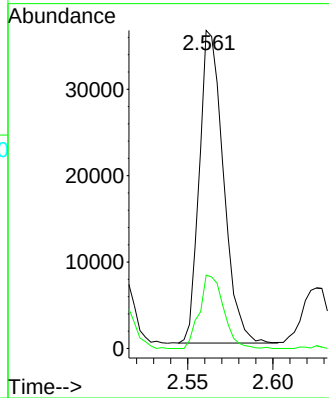
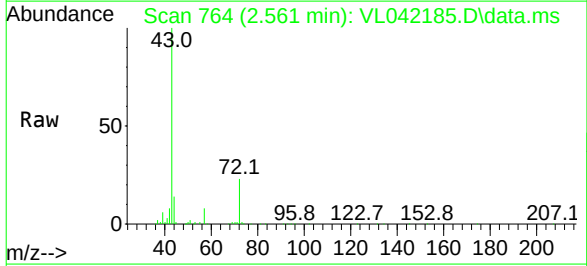
#34  
2-Butanone  
Concen: 0.913 ppbv  
RT: 2.561 min Scan# 76  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

Tgt Ion: 43 Resp: 35584  
Ion Ratio Lower Upper  
43 100  
72 23.5 18.2 27.2

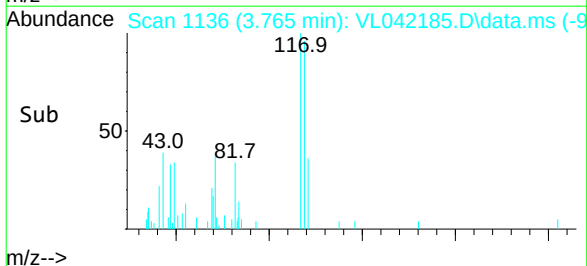
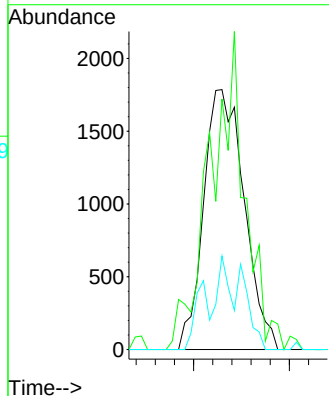
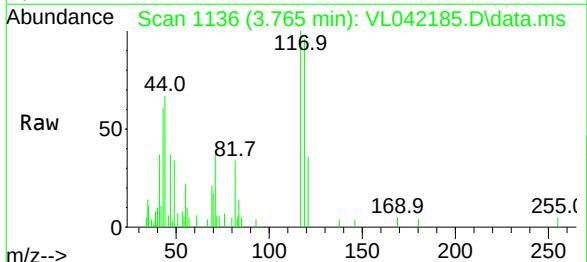
Manual Integrations  
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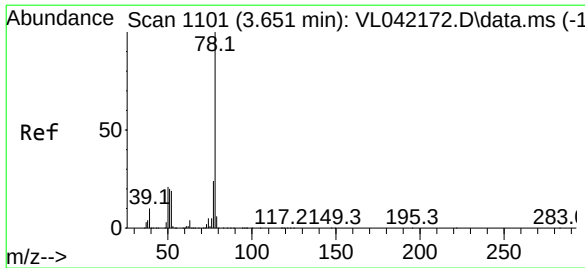
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#35  
Carbon Tetrachloride  
Concen: 0.063 ppbv  
RT: 3.765 min Scan# 1136  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

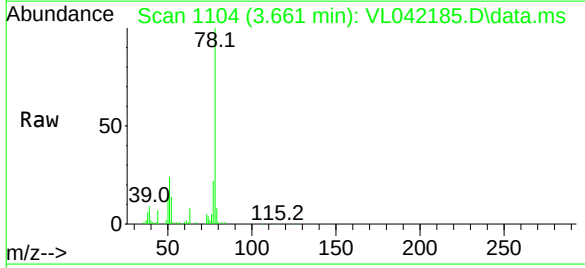
Tgt Ion:117 Resp: 2627  
Ion Ratio Lower Upper  
117 100  
119 86.6 76.2 114.2  
121 35.9 24.2 36.4





#36  
Benzene  
Concen: 0.639 ppbv  
RT: 3.661 min Scan# 1101  
Delta R.T. 0.010 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

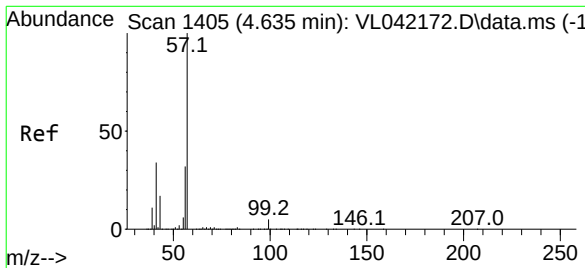
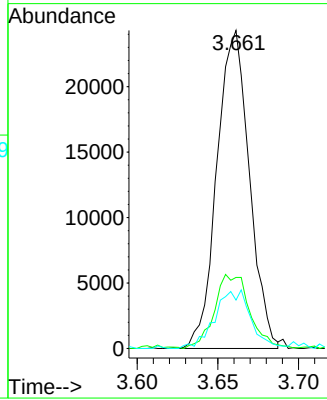
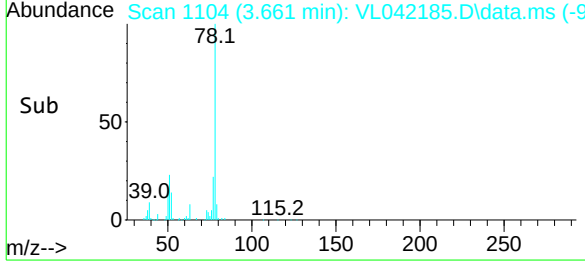
Instrument : MSVOA\_L  
ClientSampleId : IA-B9-3-3262025



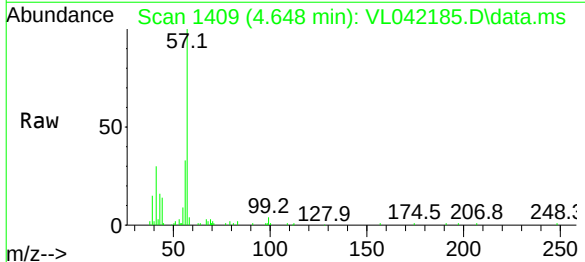
Tgt Ion: 78 Resp: 34017  
Ion Ratio Lower Upper  
78 100  
77 22.0 19.1 28.7  
50 14.3 16.6 24.8#

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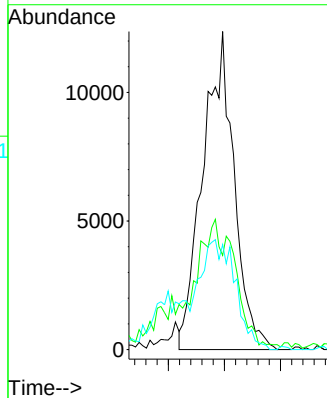
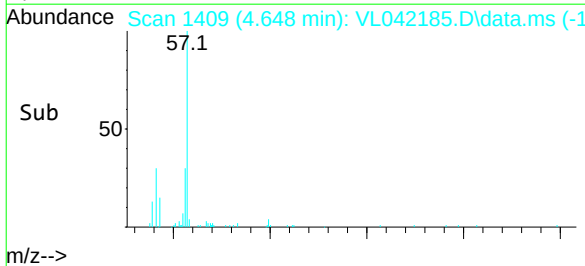
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

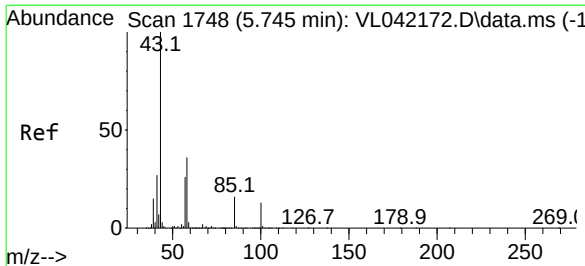


#44  
2,2,4-Trimethylpentane  
Concen: 0.266 ppbv m  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.013 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22



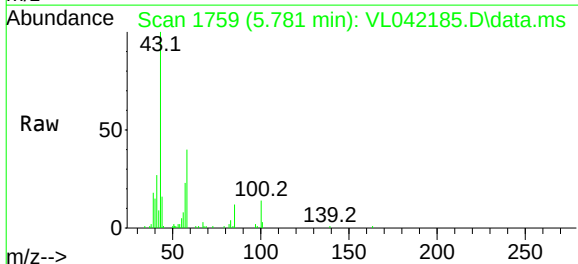
Tgt Ion: 57 Resp: 23919  
Ion Ratio Lower Upper  
57 100  
41 62.1 26.8 40.2#  
56 58.0 25.6 38.4#





#50  
4-Methyl-2-Pentanone  
Concen: 0.359 ppbv m  
RT: 5.781 min Scan# 1748  
Delta R.T. 0.036 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

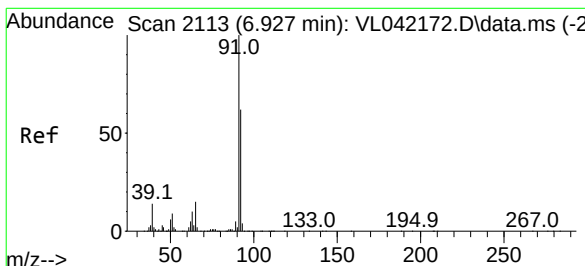
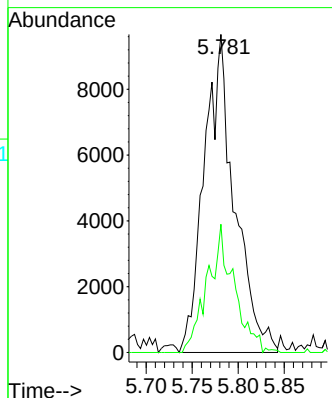
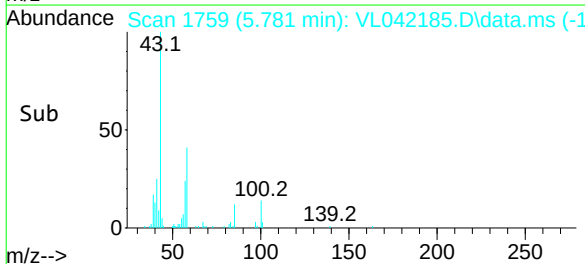
Instrument : MSVOA\_L  
ClientSampleId : IA-B9-3-3262025



Tgt Ion: 43 Resp: 22175  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.0 43.6

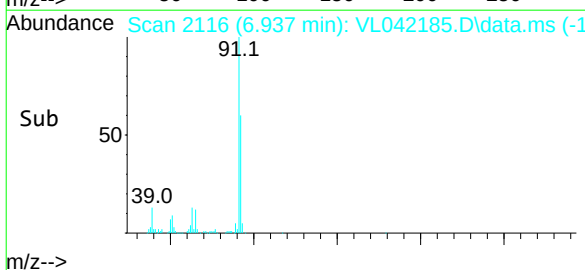
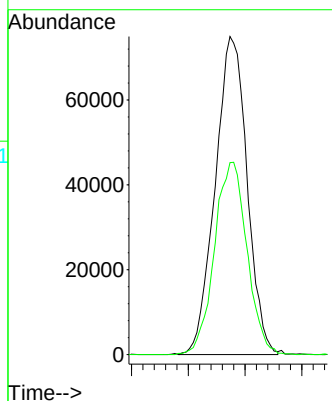
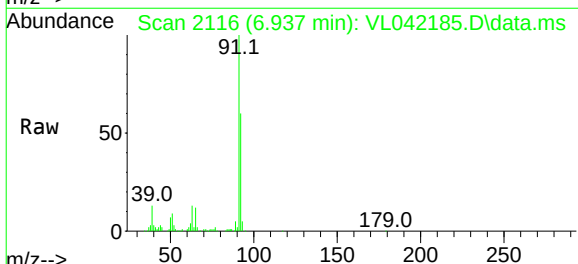
Manual Integrations  
APPROVED

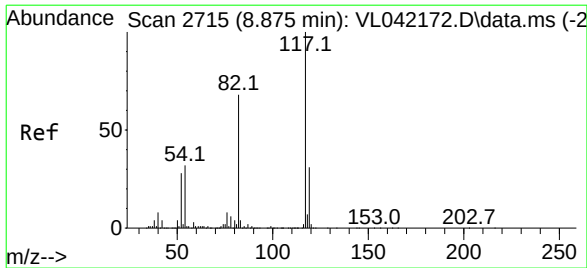
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#53  
Toluene  
Concen: 2.319 ppbv  
RT: 6.937 min Scan# 2116  
Delta R.T. 0.010 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

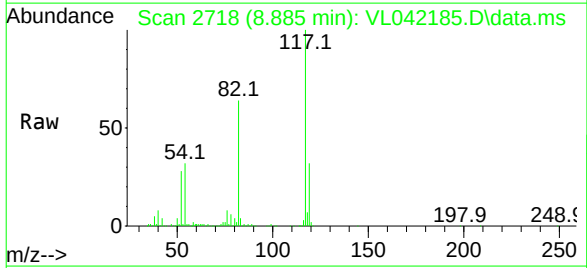
Tgt Ion: 91 Resp: 146384  
Ion Ratio Lower Upper  
91 100  
92 61.6 48.4 72.6





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2715  
Delta R.T. 0.010 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

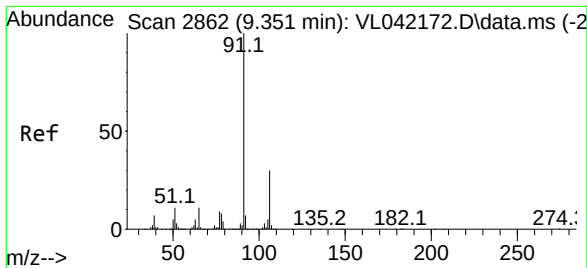
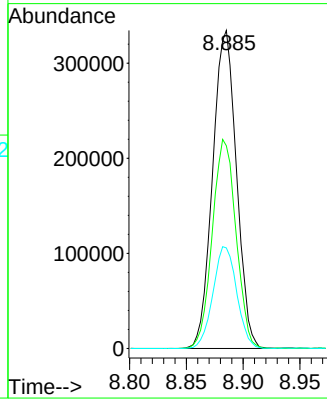
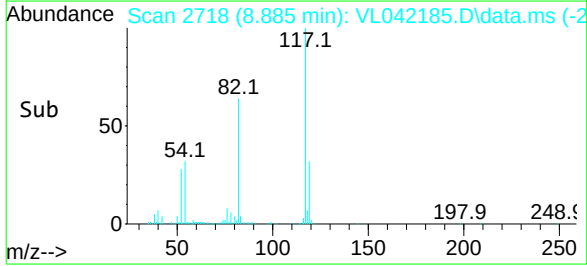
Instrument : MSVOA\_L  
ClientSampleId : IA-B9-3-3262025



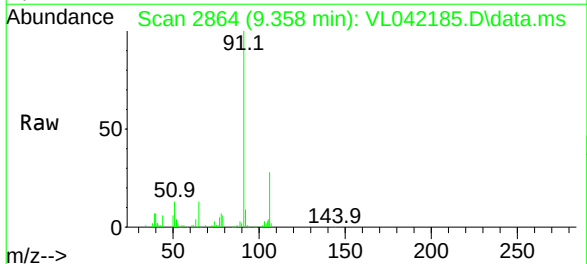
Tgt Ion: 117 Resp: 488802  
Ion Ratio Lower Upper  
117 100  
82 65.5 55.8 83.6  
119 32.1 25.5 38.3

Manual Integrations  
APPROVED

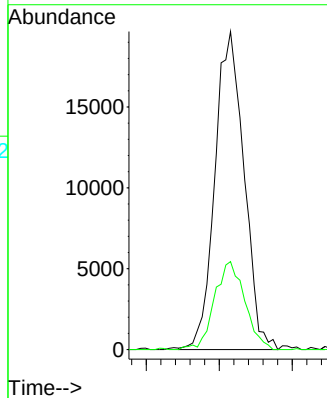
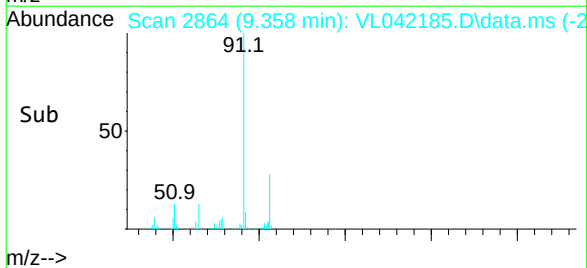
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

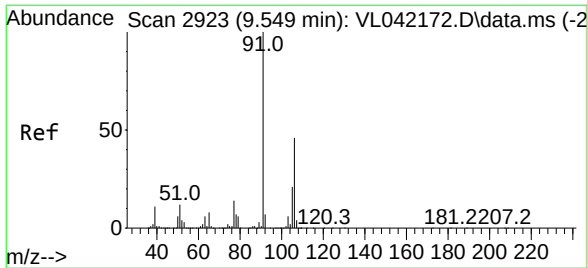


#58  
Ethyl Benzene  
Concen: 0.313 ppbv  
RT: 9.358 min Scan# 2864  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22



Tgt Ion: 91 Resp: 27191  
Ion Ratio Lower Upper  
91 100  
106 27.7 24.2 36.2





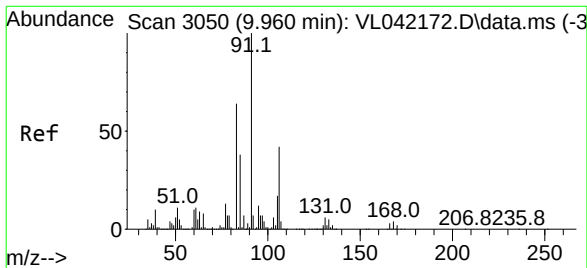
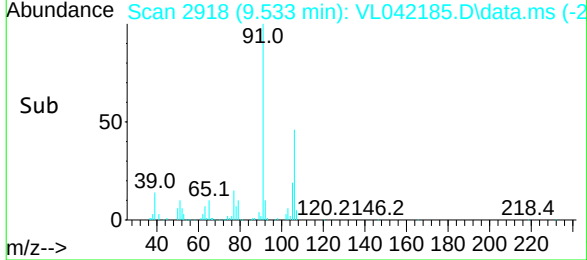
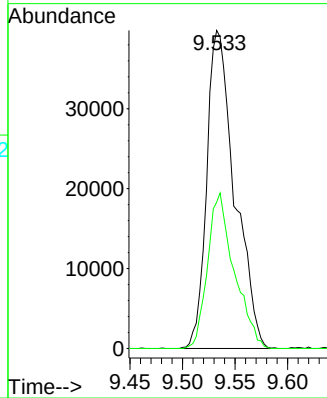
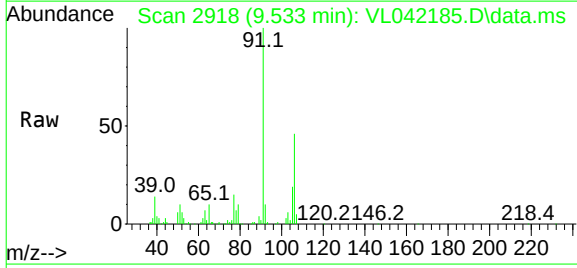
#59  
m/p-Xylene  
Concen: 1.063 ppbv m  
RT: 9.533 min Scan# 2918  
Delta R.T. -0.016 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Instrument : MSVOA\_L  
ClientSampleId : IA-B9-3-3262025

Tgt Ion: 91 Resp: 73715  
Ion Ratio Lower Upper  
91 100  
106 46.5 36.4 54.6

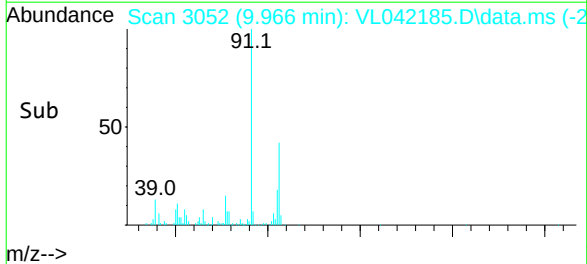
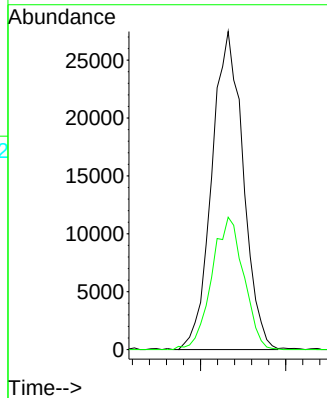
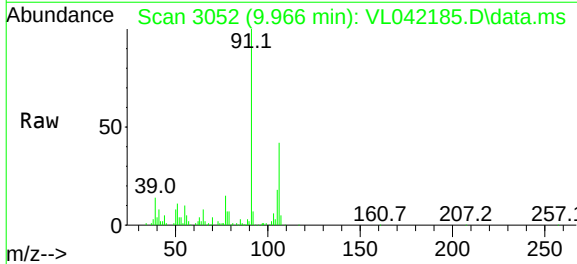
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

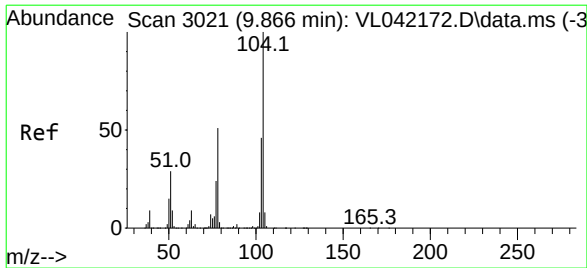


#60  
o-Xylene  
Concen: 0.505 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 91 Resp: 35115  
Ion Ratio Lower Upper  
91 100  
106 42.3 20.8 62.5







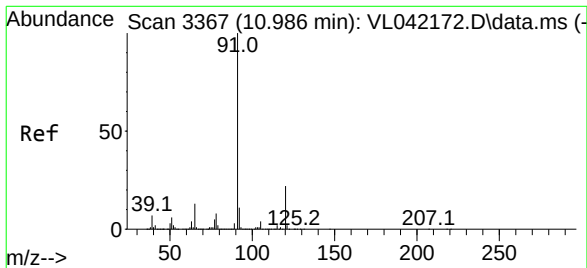
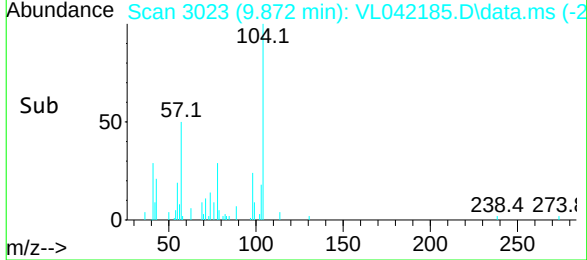
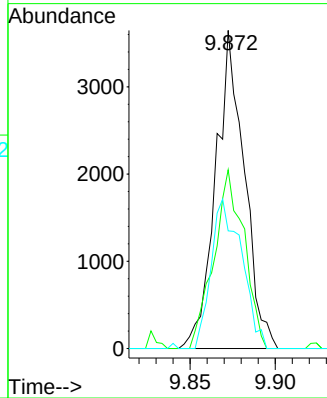
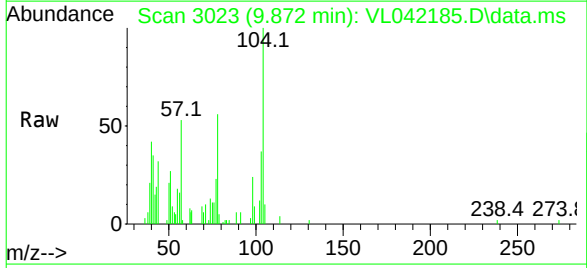
#61  
Styrene  
Concen: 0.124 ppbv  
RT: 9.872 min Scan# 3021  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 104   | Resp: | 4273 |
| Ion Ratio | Lower | Upper |      |
| 104       | 100   |       |      |
| 78        | 60.5  | 41.8  | 62.6 |
| 103       | 49.9  | 37.0  | 55.4 |

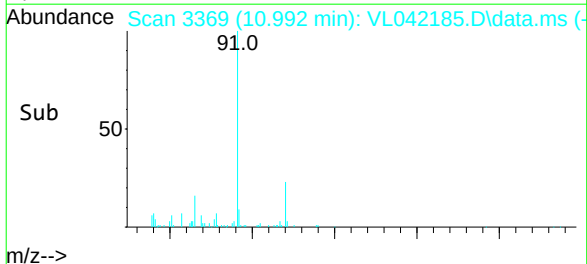
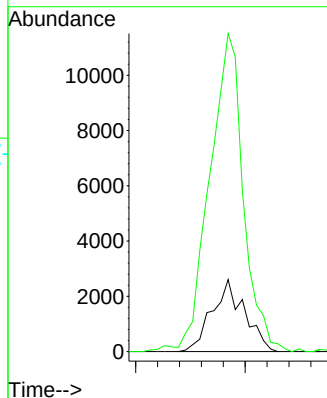
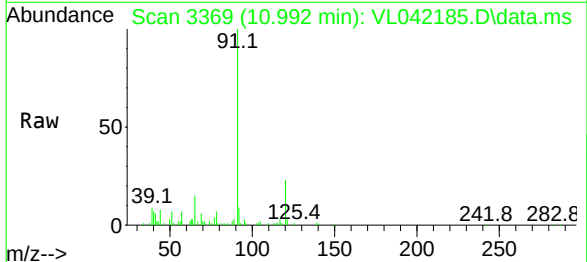
Manual Integrations  
APPROVED

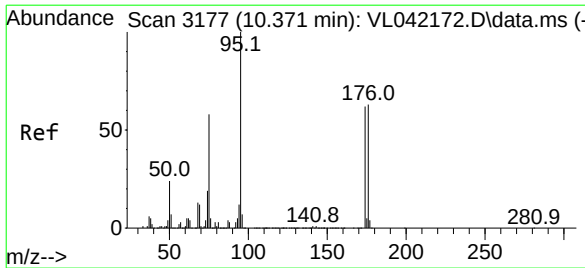
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#64  
n-propylbenzene  
Concen: 0.100 ppbv  
RT: 10.992 min Scan# 3369  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

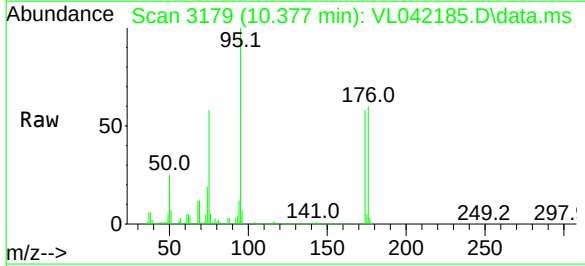
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 120   | Resp: | 2677  |
| Ion Ratio | Lower | Upper |       |
| 120       | 100   |       |       |
| 91        | 461.2 | 376.9 | 565.3 |





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.946 ppbv  
 RT: 10.377 min Scan# 3179  
 Delta R.T. 0.007 min  
 Lab File: VL042185.D  
 Acq: 27 Mar 2025 18:22

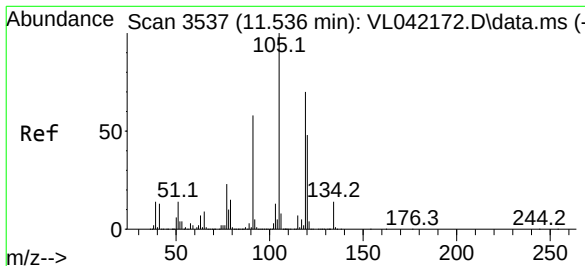
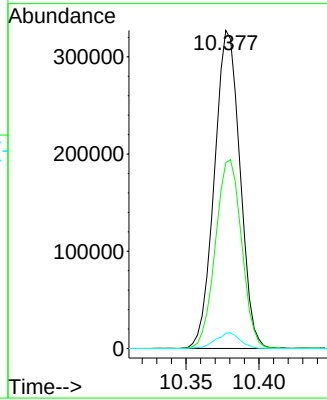
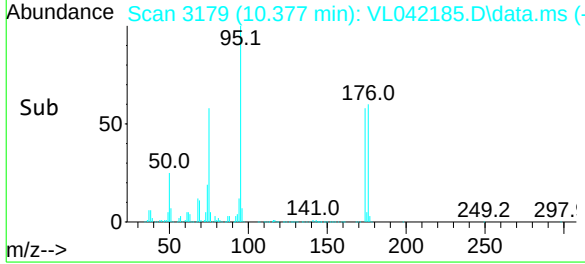
Instrument : MSVOA\_L  
 ClientSampleId : IA-B9-3-3262025



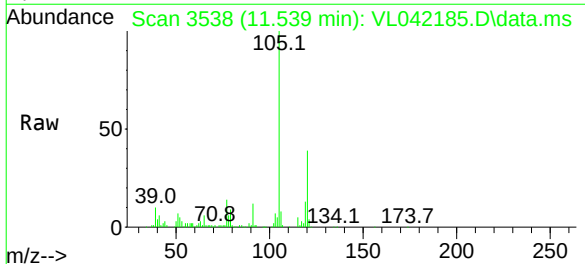
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 399253 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 60.5  | 50.6  | 76.0   |
| 175      | 4.8   | 3.8   | 5.6    |

Manual Integrations  
**APPROVED**

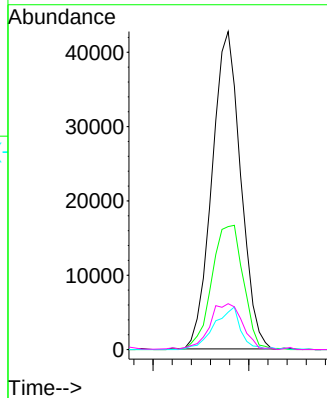
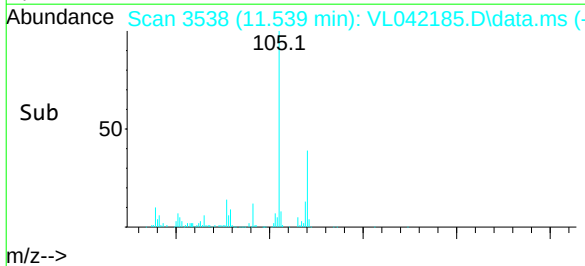
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.510 ppbv  
 RT: 11.539 min Scan# 3538  
 Delta R.T. 0.003 min  
 Lab File: VL042185.D  
 Acq: 27 Mar 2025 18:22



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 44446 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 38.5  | 38.6  | 58.0# |
| 91       | 11.8  | 46.2  | 69.2# |
| 77       | 14.5  | 18.6  | 27.8# |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042185.D  
Acq On : 27 Mar 2025 18:22  
Operator : SY/MD  
Sample : Q1669-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

Signal : TIC: VL042185.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.431       | 410           | 415         | 420          | rBV      | 4270422        | 4724824       | 100.00%         | 29.010%       |
| 2         | 1.486       | 427           | 432         | 434          | rBV3     | 88651          | 57888         | 1.23%           | 0.355%        |
| 3         | 1.557       | 450           | 454         | 459          | rBV      | 1021168        | 533159        | 11.28%          | 3.274%        |
| 4         | 1.603       | 464           | 468         | 471          | rVV      | 444755         | 235739        | 4.99%           | 1.447%        |
| 5         | 1.622       | 471           | 474         | 478          | rVB      | 109657         | 57942         | 1.23%           | 0.356%        |
| 6         | 1.722       | 501           | 505         | 509          | rBV      | 202737         | 116091        | 2.46%           | 0.713%        |
| 7         | 1.774       | 517           | 521         | 527          | rBV      | 160163         | 99384         | 2.10%           | 0.610%        |
| 8         | 1.836       | 536           | 540         | 548          | rVB      | 2126258        | 1457667       | 30.85%          | 8.950%        |
| 9         | 1.965       | 575           | 580         | 584          | rVB      | 181736         | 127912        | 2.71%           | 0.785%        |
| 10        | 2.473       | 732           | 737         | 744          | rVB      | 178763         | 182151        | 3.86%           | 1.118%        |
| 11        | 2.512       | 744           | 749         | 760          | rVB3     | 46404          | 50123         | 1.06%           | 0.308%        |
| 12        | 2.561       | 760           | 764         | 776          | rVB      | 60138          | 60608         | 1.28%           | 0.372%        |
| 13        | 2.626       | 776           | 784         | 793          | rVB2     | 102261         | 111036        | 2.35%           | 0.682%        |
| 14        | 2.791       | 825           | 835         | 841          | rBV      | 679699         | 716741        | 15.17%          | 4.401%        |
| 15        | 2.826       | 841           | 846         | 860          | rVB2     | 205535         | 242043        | 5.12%           | 1.486%        |
| 16        | 3.231       | 961           | 971         | 979          | rBV2     | 57075          | 70818         | 1.50%           | 0.435%        |
| 17        | 3.658       | 1087          | 1103        | 1111         | rBV4     | 57299          | 93710         | 1.98%           | 0.575%        |
| 18        | 3.697       | 1111          | 1115        | 1126         | rVB3     | 39300          | 52352         | 1.11%           | 0.321%        |
| 19        | 3.962       | 1184          | 1197        | 1210         | rBV      | 870291         | 1418704       | 30.03%          | 8.711%        |
| 20        | 4.053       | 1215          | 1225        | 1234         | rBV4     | 41325          | 79790         | 1.69%           | 0.490%        |
| 21        | 4.266       | 1280          | 1291        | 1306         | rBV4     | 54250          | 118768        | 2.51%           | 0.729%        |
| 22        | 6.940       | 2101          | 2117        | 2136         | rBV3     | 202661         | 426925        | 9.04%           | 2.621%        |
| 23        | 7.697       | 2341          | 2351        | 2366         | rVB5     | 49910          | 95365         | 2.02%           | 0.586%        |
| 24        | 8.882       | 2704          | 2717        | 2730         | rBV      | 1153082        | 1733843       | 36.70%          | 10.646%       |
| 25        | 9.151       | 2790          | 2800        | 2811         | rBV3     | 69273          | 104429        | 2.21%           | 0.641%        |
| 26        | 9.358       | 2855          | 2864        | 2868         | rBV      | 45260          | 63916         | 1.35%           | 0.392%        |
| 27        | 9.390       | 2868          | 2874        | 2891         | rVB      | 122964         | 171912        | 3.64%           | 1.056%        |
| 28        | 9.533       | 2909          | 2918        | 2935         | rVB2     | 122401         | 230148        | 4.87%           | 1.413%        |
| 29        | 9.636       | 2941          | 2950        | 2962         | rBV2     | 52388          | 75069         | 1.59%           | 0.461%        |
| 30        | 9.966       | 3042          | 3052        | 3063         | rVB3     | 84218          | 162317        | 3.44%           | 0.997%        |
| 31        | 10.377      | 3165          | 3179        | 3190         | rBV      | 1520250        | 1891906       | 40.04%          | 11.616%       |
| 32        | 11.096      | 3392          | 3401        | 3407         | rBV      | 77638          | 96706         | 2.05%           | 0.594%        |
| 33        | 11.206      | 3422          | 3435        | 3443         | rVB2     | 42544          | 52004         | 1.10%           | 0.319%        |
| 34        | 11.309      | 3455          | 3467        | 3472         | rBV10    | 21542          | 47390         | 1.00%           | 0.291%        |
| 35        | 11.539      | 3526          | 3538        | 3548         | rBV2     | 127254         | 162178        | 3.43%           | 0.996%        |
| 36        | 12.232      | 3744          | 3752        | 3758         | rBV3     | 88963          | 103051        | 2.18%           | 0.633%        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042185.D  
Acq On : 27 Mar 2025 18:22  
Operator : SY/MD  
Sample : Q1669-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

|    |        |      |      |      |      |       |       |       |        |
|----|--------|------|------|------|------|-------|-------|-------|--------|
| 37 | 12.442 | 3811 | 3817 | 3823 | rBV  | 54403 | 56613 | 1.20% | 0.348% |
| 38 | 12.513 | 3832 | 3839 | 3846 | rBV3 | 63614 | 81157 | 1.72% | 0.498% |
| 39 | 12.653 | 3874 | 3882 | 3885 | rBV4 | 52361 | 59932 | 1.27% | 0.368% |
| 40 | 12.672 | 3885 | 3888 | 3897 | rVB2 | 59379 | 64290 | 1.36% | 0.395% |

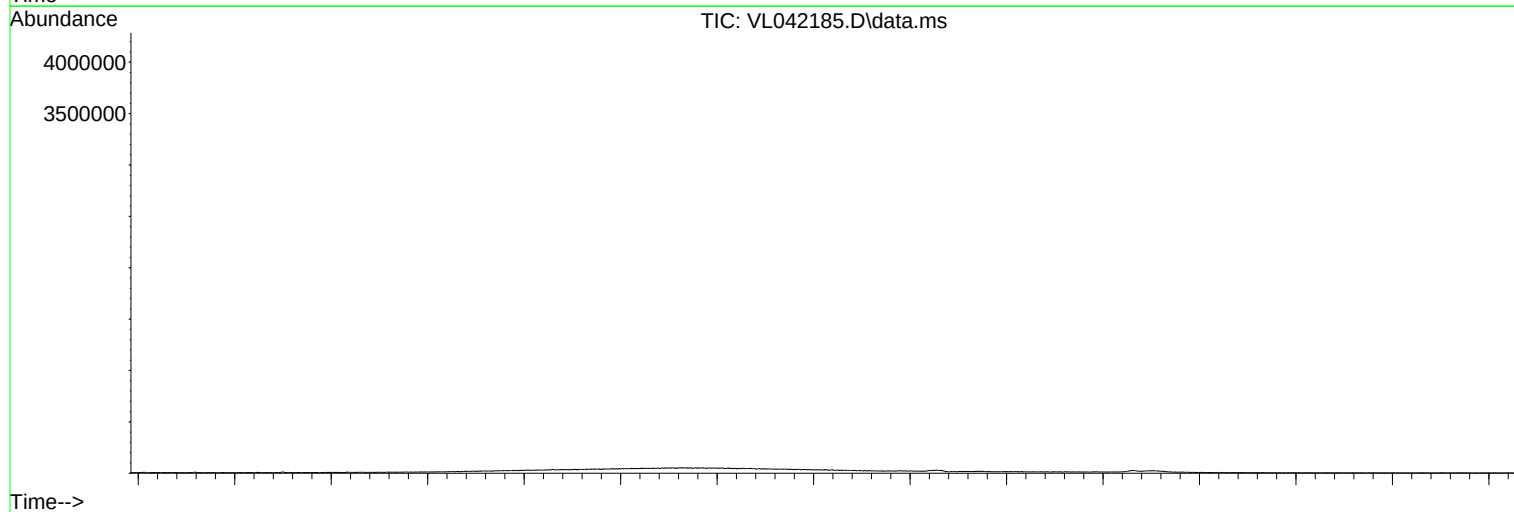
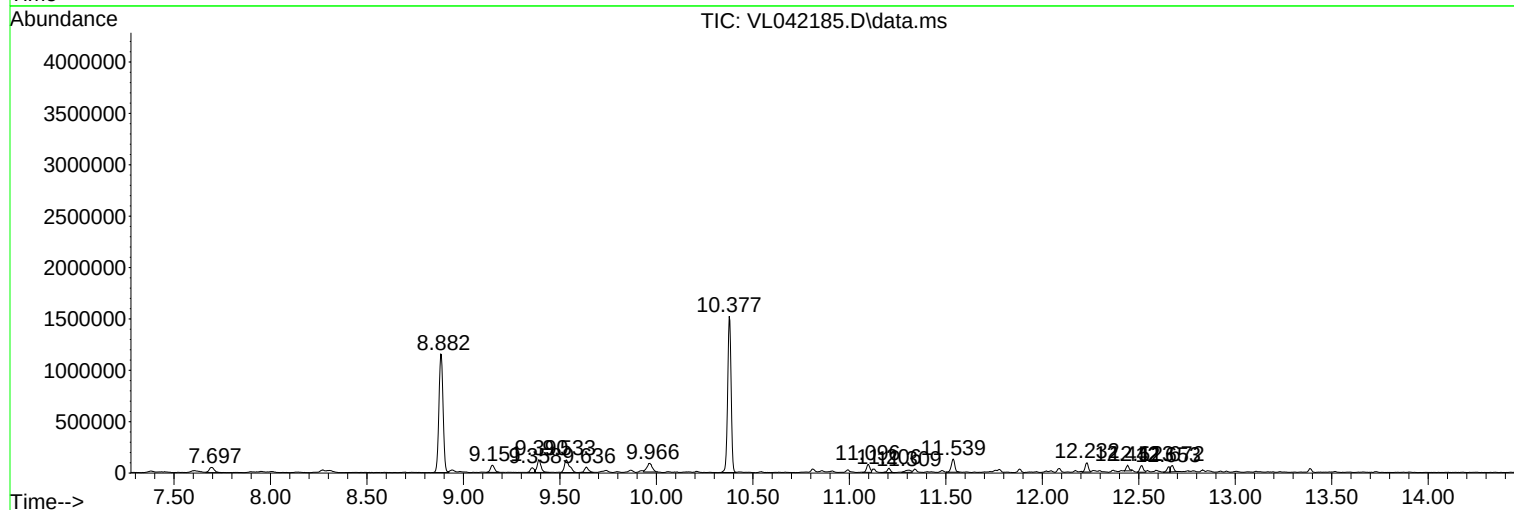
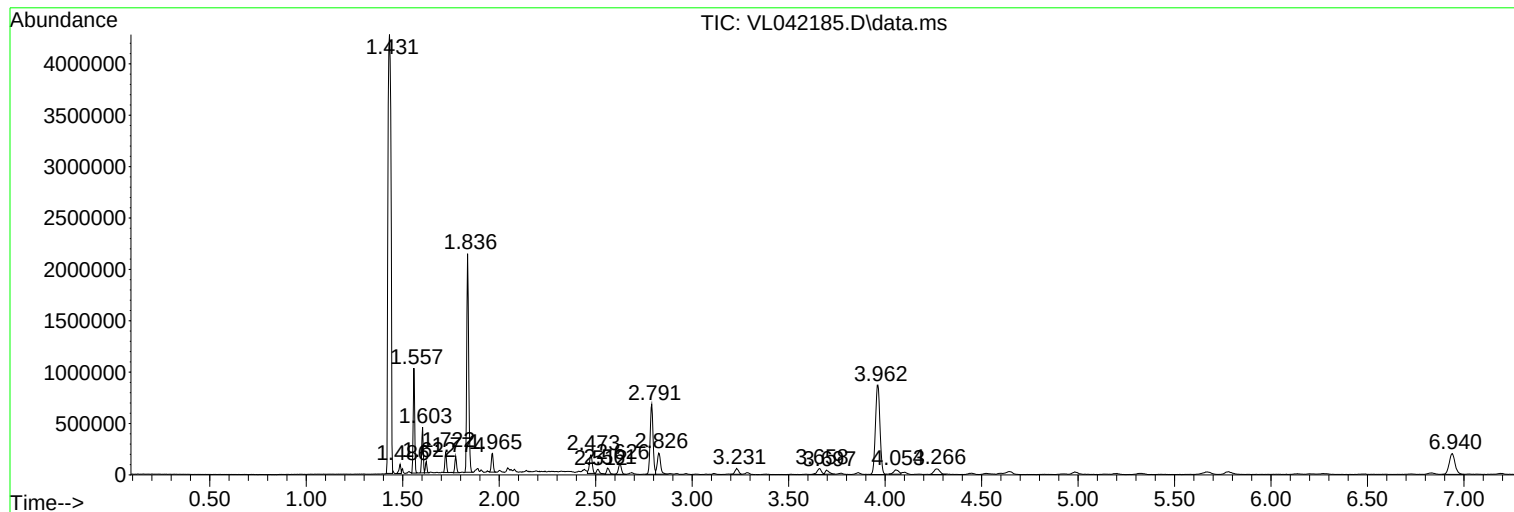
Sum of corrected areas: 16286601

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042185.D  
Acq On : 27 Mar 2025 18:22  
Operator : SY/MD  
Sample : Q1669-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042185.D  
Acq On : 27 Mar 2025 18:22  
Operator : SY/MD  
Sample : Q1669-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

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

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

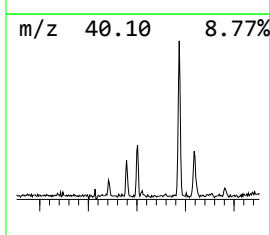
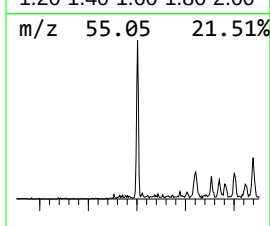
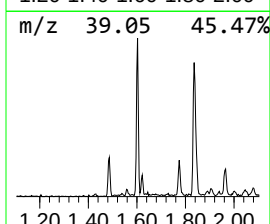
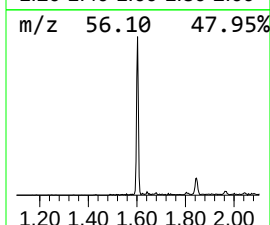
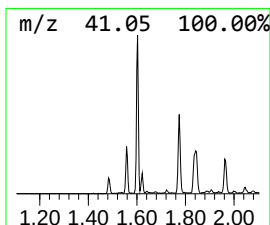
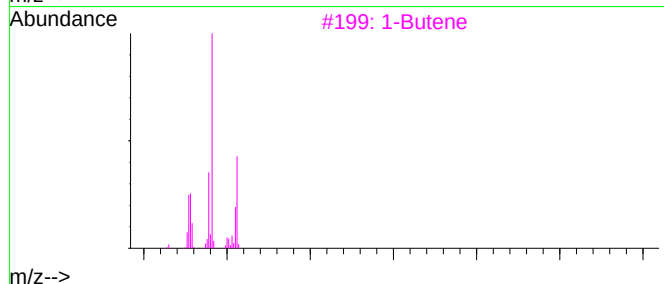
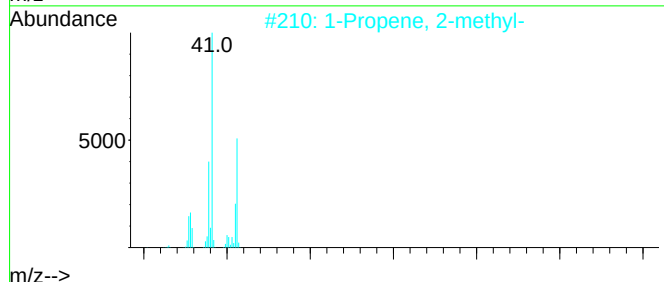
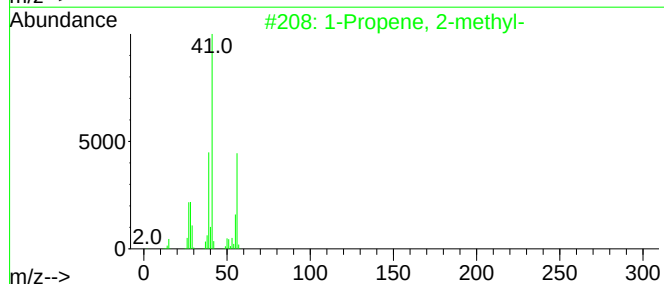
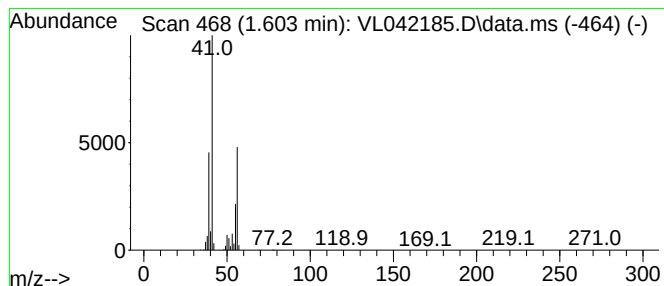
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Peak Number 1 1-Propene, 2-methyl- Concentration Rank 1

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 1.603 | 3.29 ppbv | 235739 | Bromochloromethane | 2.791 |

| Hit# of 5 | Tentative ID         | MW | MolForm | CAS#        | Qual |
|-----------|----------------------|----|---------|-------------|------|
| 1         | 1-Propene, 2-methyl- | 56 | C4H8    | 000115-11-7 | 90   |
| 2         | 1-Propene, 2-methyl- | 56 | C4H8    | 000115-11-7 | 90   |
| 3         | 1-Butene             | 56 | C4H8    | 000106-98-9 | 87   |
| 4         | 1-Butene             | 56 | C4H8    | 000106-98-9 | 87   |
| 5         | 1-Butene             | 56 | C4H8    | 000106-98-9 | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042185.D  
Acq On : 27 Mar 2025 18:22  
Operator : SY/MD  
Sample : Q1669-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

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

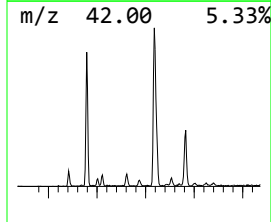
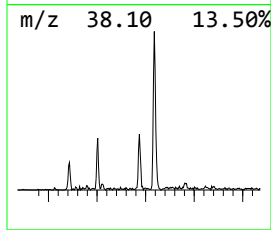
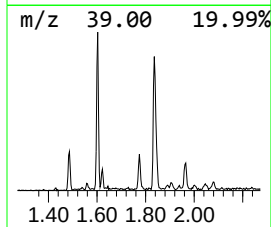
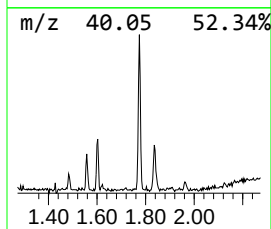
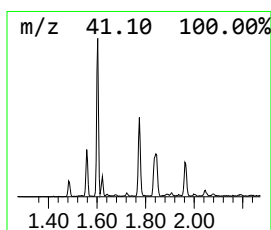
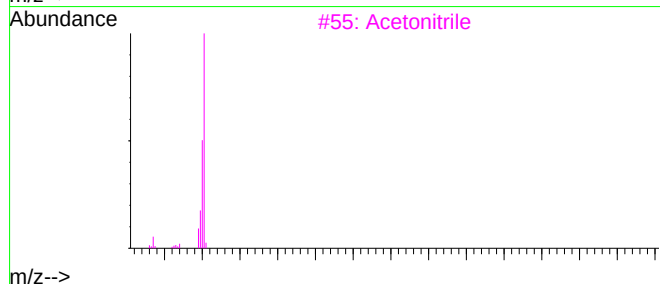
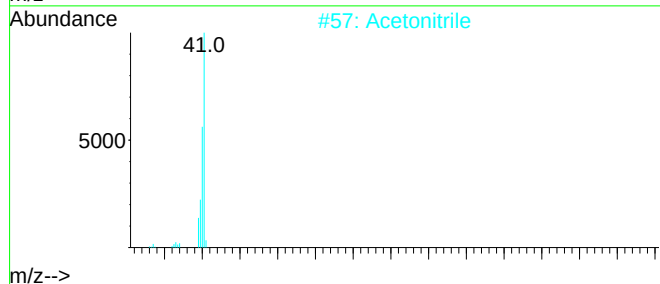
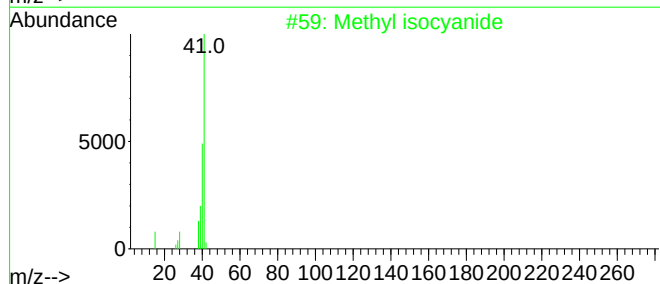
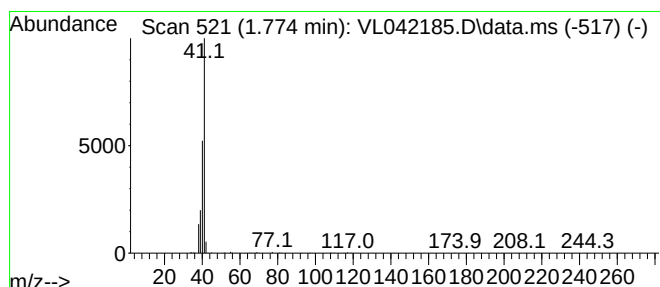
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown1.774 Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD   | R.T.  |
|-------|-----------|-------|--------------------|-------|
| 1.774 | 1.39 ppbv | 99384 | Bromochloromethane | 2.791 |

| Hit# of 5 | Tentative ID        | MW | MolForm | CAS#        | Qual |
|-----------|---------------------|----|---------|-------------|------|
| 1         | Methyl isocyanide   | 41 | C2H3N   | 000593-75-9 | 42   |
| 2         | Acetonitrile        | 41 | C2H3N   | 000075-05-8 | 42   |
| 3         | Acetonitrile        | 41 | C2H3N   | 000075-05-8 | 42   |
| 4         | Acetonitrile        | 41 | C2H3N   | 000075-05-8 | 9    |
| 5         | Acetic acid, cyano- | 85 | C3H3NO2 | 000372-09-8 | 9    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042185.D  
Acq On : 27 Mar 2025 18:22  
Operator : SY/MD  
Sample : Q1669-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

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

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

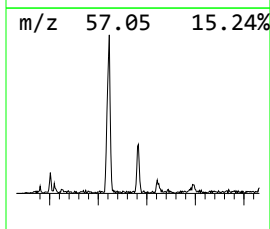
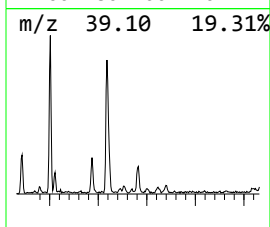
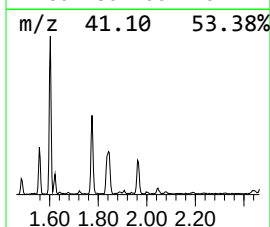
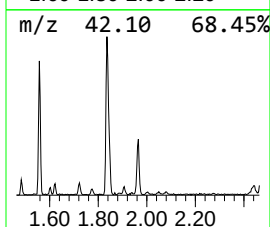
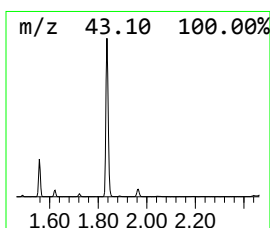
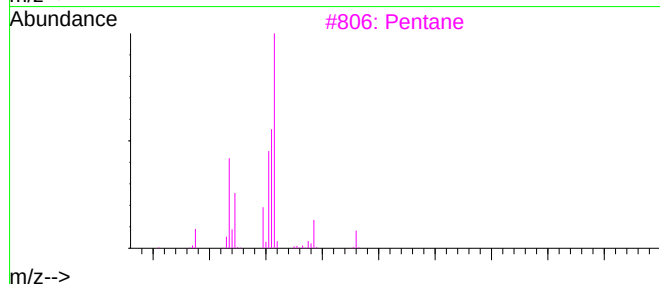
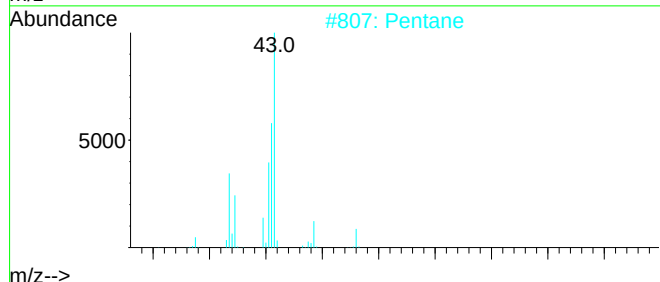
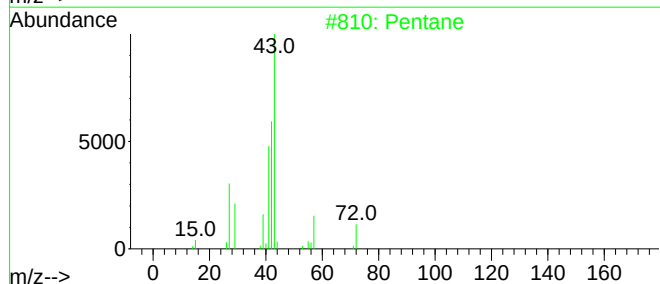
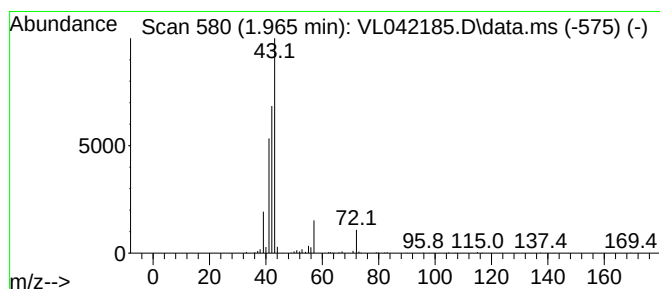
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Peak Number 3 Pentane Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 1.965 | 1.78 ppbv | 127912 | Bromochloromethane | 2.791 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|-----------|--------------|----|---------|-------------|------|
| 1         | Pentane      | 72 | C5H12   | 000109-66-0 | 80   |
| 2         | Pentane      | 72 | C5H12   | 000109-66-0 | 80   |
| 3         | Pentane      | 72 | C5H12   | 000109-66-0 | 80   |
| 4         | Pentane      | 72 | C5H12   | 000109-66-0 | 72   |
| 5         | Pentane      | 72 | C5H12   | 000109-66-0 | 59   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042185.D  
Acq On : 27 Mar 2025 18:22  
Operator : SY/MD  
Sample : Q1669-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

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

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

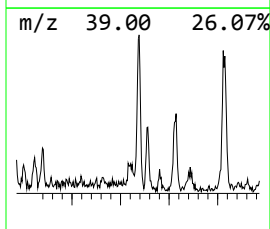
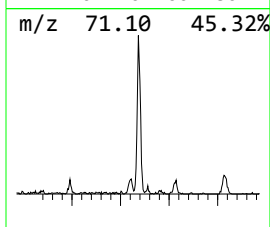
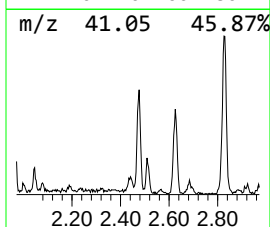
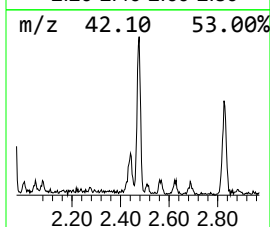
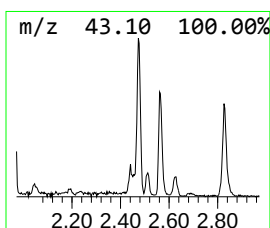
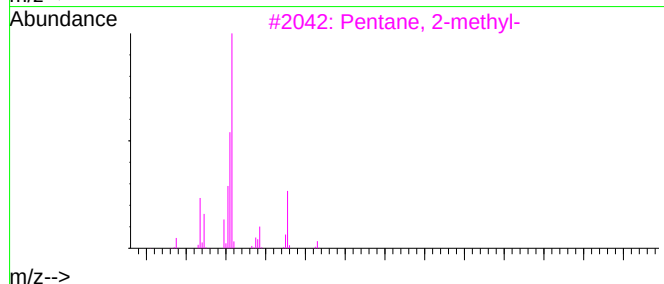
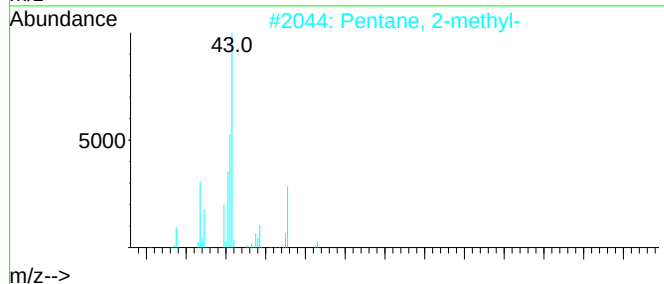
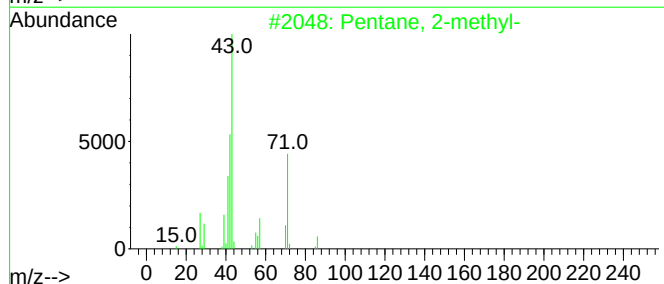
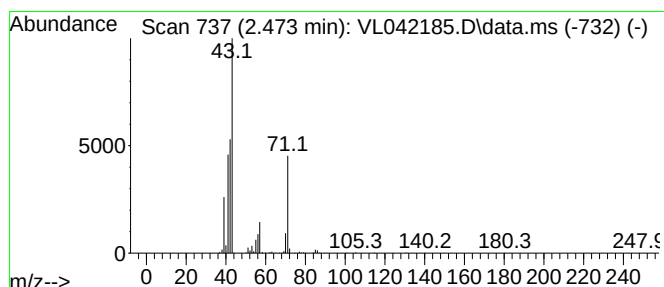
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Peak Number 4 Pentane, 2-methyl- Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.473 | 2.54 ppbv | 182151 | Bromochloromethane | 2.791 |

| Hit# of 5 | Tentative ID       | MW | MolForm | CAS#        | Qual |
|-----------|--------------------|----|---------|-------------|------|
| 1         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 90   |
| 2         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 78   |
| 3         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 74   |
| 4         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 64   |
| 5         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042185.D  
Acq On : 27 Mar 2025 18:22  
Operator : SY/MD  
Sample : Q1669-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

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

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

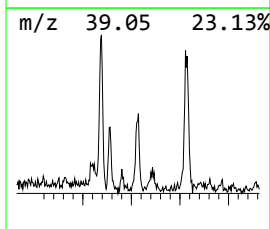
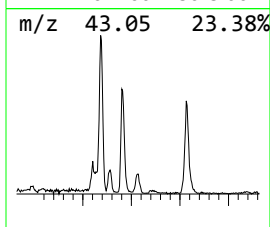
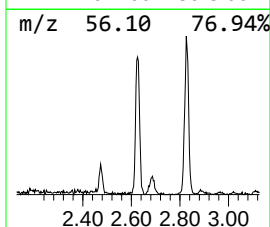
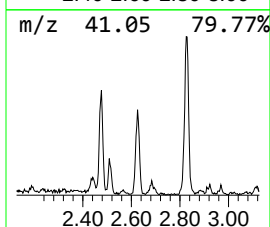
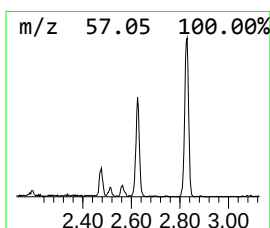
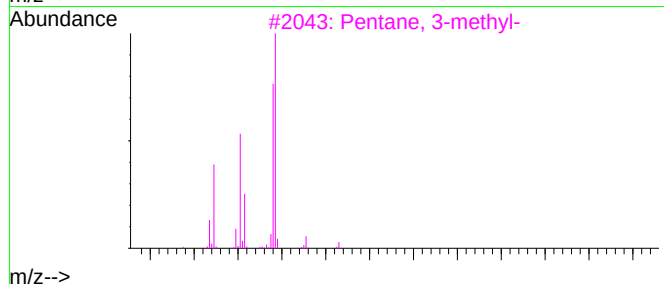
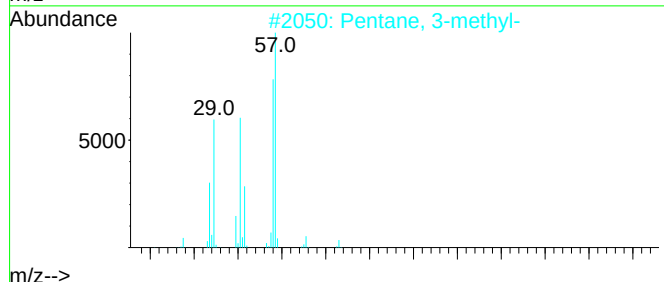
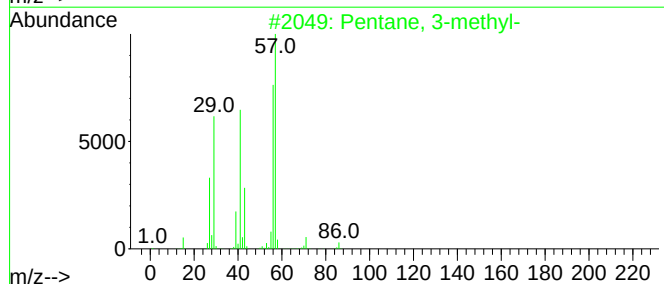
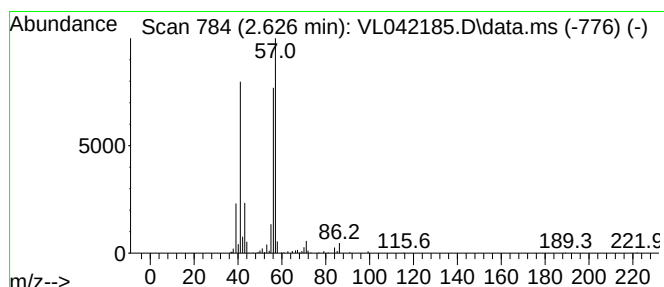
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Peak Number 5 Pentane, 3-methyl- Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.626 | 1.55 ppbv | 111036 | Bromochloromethane | 2.791 |

| Hit# of 5 | Tentative ID             | MW  | MolForm  | CAS#        | Qual |
|-----------|--------------------------|-----|----------|-------------|------|
| 1         | Pentane, 3-methyl-       | 86  | C6H14    | 000096-14-0 | 87   |
| 2         | Pentane, 3-methyl-       | 86  | C6H14    | 000096-14-0 | 86   |
| 3         | Pentane, 3-methyl-       | 86  | C6H14    | 000096-14-0 | 80   |
| 4         | Hexane, 2,2,3-trimethyl- | 128 | C9H20    | 016747-25-4 | 78   |
| 5         | Butyl isocyanatoacetate  | 157 | C7H11NO3 | 017046-22-9 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042185.D  
Acq On : 27 Mar 2025 18:22  
Operator : SY/MD  
Sample : Q1669-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

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

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

| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|--------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                    |       |         |       |          | #                     | RT    | Resp   | Conc |
| 1-Propene, 2-me... | 1.603 | 3.3     | ppbv  | 235739   | 1                     | 2.791 | 716741 | 10.0 |
| unknown1.774       | 1.774 | 1.4     | ppbv  | 99384    | 1                     | 2.791 | 716741 | 10.0 |
| Pentane            | 1.965 | 1.8     | ppbv  | 127912   | 1                     | 2.791 | 716741 | 10.0 |
| Pentane, 2-methyl- | 2.473 | 2.5     | ppbv  | 182151   | 1                     | 2.791 | 716741 | 10.0 |
| Pentane, 3-methyl- | 2.626 | 1.6     | ppbv  | 111036   | 1                     | 2.791 | 716741 | 10.0 |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | IA-B9-3-3262025DL                               | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-01DL                                      | 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 |
| VL042195.D        | 5         |           | 03/28/25 00:06 | VL032725      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |      |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 1.10          | 5.44           | UD        | 5.44 | 12.4       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.49          | 1.01           | UD        | 1.01 | 5.16       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 0.070         | 0.18           | UD        | 0.18 | 0.38       | ug/m3 |
| 74-83-9        | Bromomethane                   | 0.70          | 2.72           | UD        | 2.72 | 9.71       | ug/m3 |
| 75-00-3        | Chloroethane                   | 0.85          | 2.24           | UD        | 2.24 | 6.60       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 0.65          | 1.92           | UD        | 1.92 | 7.37       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 0.80          | 4.50           | UD        | 4.50 | 14.1       | ug/m3 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.80          | 6.13           | UD        | 6.13 | 19.2       | ug/m3 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.44          | 3.08           | UD        | 3.08 | 17.5       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 0.95          | 2.88           | UD        | 2.88 | 7.58       | ug/m3 |
| 142-82-5       | Heptane                        | 0.55          | 2.25           | UD        | 2.25 | 10.3       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 0.70          | 2.78           | UD        | 2.78 | 9.91       | ug/m3 |
| 67-64-1        | Acetone                        | 37.1          | 88.1           | D         | 2.85 | 5.94       | ug/m3 |
| 75-15-0        | Carbon Disulfide               | 0.80          | 2.49           | UD        | 2.49 | 7.79       | ug/m3 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.60          | 2.16           | UD        | 2.16 | 9.01       | ug/m3 |
| 75-09-2        | Methylene Chloride             | 1.10          | 3.82           | JD        | 3.30 | 8.69       | ug/m3 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.95          | 3.77           | UD        | 3.77 | 9.91       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 0.65          | 2.63           | UD        | 2.63 | 10.1       | ug/m3 |
| 110-82-7       | Cyclohexane                    | 1.10          | 3.79           | UD        | 3.79 | 8.61       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 0.95          | 2.80           | JD        | 1.77 | 7.37       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 0.060         | 0.38           | UD        | 0.38 | 0.94       | ug/m3 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.45          | 1.78           | UD        | 1.78 | 9.91       | ug/m3 |
| 67-66-3        | Chloroform                     | 0.42          | 2.05           | UD        | 2.05 | 12.2       | ug/m3 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.050         | 0.27           | UD        | 0.27 | 0.82       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 0.50          | 2.34           | UD        | 2.34 | 11.7       | ug/m3 |
| 71-43-2        | Benzene                        | 0.57          | 1.82           | JD        | 1.41 | 7.99       | ug/m3 |
| 107-06-2       | 1,2-Dichloroethane             | 0.46          | 1.86           | UD        | 1.86 | 10.1       | ug/m3 |
| 79-01-6        | Trichloroethene                | 0.090         | 0.48           | UD        | 0.48 | 0.81       | ug/m3 |
| 78-87-5        | 1,2-Dichloropropane            | 0.55          | 2.54           | UD        | 2.54 | 11.6       | ug/m3 |
| 75-27-4        | Bromodichloromethane           | 0.39          | 2.61           | UD        | 2.61 | 16.8       | ug/m3 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 0.47          | 1.93           | UD        | 1.93 | 10.3       | ug/m3 |
| 108-88-3       | Toluene                        | 2.10          | 7.91           | JD        | 2.07 | 9.42       | ug/m3 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.30          | 1.36           | UD        | 1.36 | 11.3       | ug/m3 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 0.32          | 1.45           | UD        | 1.45 | 11.3       | ug/m3 |
| 79-00-5        | 1,1,2-Trichloroethane          | 0.36          | 1.96           | UD        | 1.96 | 13.6       | ug/m3 |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | IA-B9-3-3262025DL                               | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-01DL                                      | 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 |
| VL042195.D        | 5         |           | 03/28/25 00:06 | VL032725      |

| CAS Number                | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|---------------------------|---------------|----------------|-----------|---------------------|------------|---------|
| 124-48-1                  | Dibromochloromethane      | 0.33          | 2.81           | UD        | 2.81                | 21.3       | ug/m3   |
| 106-93-4                  | 1,2-Dibromoethane         | 0.36          | 2.77           | UD        | 2.77                | 3.84       | ug/m3   |
| 127-18-4                  | Tetrachloroethene         | 0.080         | 0.54           | UD        | 0.54                | 1.02       | ug/m3   |
| 108-90-7                  | Chlorobenzene             | 0.38          | 1.75           | UD        | 1.75                | 11.5       | ug/m3   |
| 100-41-4                  | Ethyl Benzene             | 0.60          | 2.61           | UD        | 2.61                | 10.9       | ug/m3   |
| 179601-23-1               | m/p-Xylene                | 1.10          | 4.78           | UD        | 4.78                | 21.7       | ug/m3   |
| 95-47-6                   | o-Xylene                  | 0.60          | 2.61           | UD        | 2.61                | 10.9       | ug/m3   |
| 100-42-5                  | Styrene                   | 0.55          | 2.34           | UD        | 2.34                | 10.6       | ug/m3   |
| 75-25-2                   | Bromoform                 | 0.28          | 2.90           | UD        | 2.90                | 25.9       | ug/m3   |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane | 0.060         | 0.41           | UD        | 0.41                | 1.03       | ug/m3   |
| 95-49-8                   | 2-Chlorotoluene           | 0.55          | 2.85           | UD        | 2.85                | 12.9       | ug/m3   |
| 108-67-8                  | 1,3,5-Trimethylbenzene    | 0.55          | 2.70           | UD        | 2.70                | 12.3       | ug/m3   |
| 95-63-6                   | 1,2,4-Trimethylbenzene    | 0.39          | 1.92           | UD        | 1.92                | 12.3       | ug/m3   |
| 541-73-1                  | 1,3-Dichlorobenzene       | 0.40          | 2.40           | UD        | 2.40                | 15.0       | ug/m3   |
| 106-46-7                  | 1,4-Dichlorobenzene       | 0.27          | 1.62           | UD        | 1.62                | 15.0       | ug/m3   |
| 95-50-1                   | 1,2-Dichlorobenzene       | 0.38          | 2.28           | UD        | 2.28                | 15.0       | ug/m3   |
| 120-82-1                  | 1,2,4-Trichlorobenzene    | 0.43          | 3.19           | UD        | 3.19                | 18.6       | ug/m3   |
| 87-68-3                   | Hexachloro-1,3-Butadiene  | 0.43          | 4.59           | UD        | 4.59                | 26.7       | ug/m3   |
| 106-99-0                  | 1,3-Butadiene             | 0.65          | 1.44           | UD        | 1.44                | 5.53       | ug/m3   |
| 91-20-3                   | Naphthalene               | 0.38          | 1.99           | UD        | 1.99                | 2.62       | ug/m3   |
| 622-96-8                  | 4-Ethyltoluene            | 0.60          | 2.95           | UD        | 2.95                | 12.3       | ug/m3   |
| 110-54-3                  | Hexane                    | 1.60          | 5.64           | JD        | 1.94                | 8.81       | ug/m3   |
| 107-05-1                  | Allyl Chloride            | 0.75          | 2.35           | UD        | 2.35                | 7.83       | ug/m3   |
| 123-91-1                  | 1,4-Dioxane               | 1.10          | 3.96           | UD        | 3.96                | 9.01       | ug/m3   |
| 80-62-6                   | Methyl Methacrylate       | 0.43          | 1.76           | UD        | 1.76                | 10.2       | ug/m3   |
| <b>SURROGATES</b>         |                           |               |                |           |                     |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene   | 9.90          |                |           | 70 (65) - 130 (135) | 99%        | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                           |               |                |           |                     |            |         |
| 74-97-5                   | Bromochloromethane        | 175000        |                | 2.784     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene       | 495000        |                | 3.956     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5          | 449000        |                | 8.879     |                     |            |         |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | IA-B9-3-3262025DL                               | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-01DL                                      | 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 |
| VL042195.D        | 5         |           | 03/28/25 00:06 | VL032725      |

| 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\VL032725\  
 Data File : VL042195.D  
 Acq On : 28 Mar 2025 00:06  
 Operator : SY/MD  
 Sample : Q1669-01DL 5X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-3-3262025DL

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:19:56 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   | 175494   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.956 | 114  | 495493   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.879 | 117  | 449375   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 365476 9.904 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.000%

Target Compounds

|                        |       |    |        |        | Qvalue |     |
|------------------------|-------|----|--------|--------|--------|-----|
| 9) Propene             | 1.483 | 41 | 2514m  | 0.207  | ppbv   |     |
| 13) Ethanol            | 1.719 | 45 | 13574  | 11.835 | ppbv   | 85  |
| 15) Acetone            | 1.832 | 43 | 182020 | 7.416  | ppbv   | 96  |
| 20) Methylene Chloride | 2.059 | 84 | 2019   | 0.221  | ppbv # | 68  |
| 26) Hexane             | 2.823 | 57 | 8040   | 0.327  | ppbv # | 32  |
| 34) 2-Butanone         | 2.557 | 43 | 6791   | 0.189  | ppbv   | 100 |
| 36) Benzene            | 3.655 | 78 | 5647   | 0.115  | ppbv   | 92  |
| 53) Toluene            | 6.927 | 91 | 24689  | 0.424  | ppbv   | 97  |
| 59) m/p-Xylene         | 9.526 | 91 | 11405m | 0.179  | ppbv   |     |

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

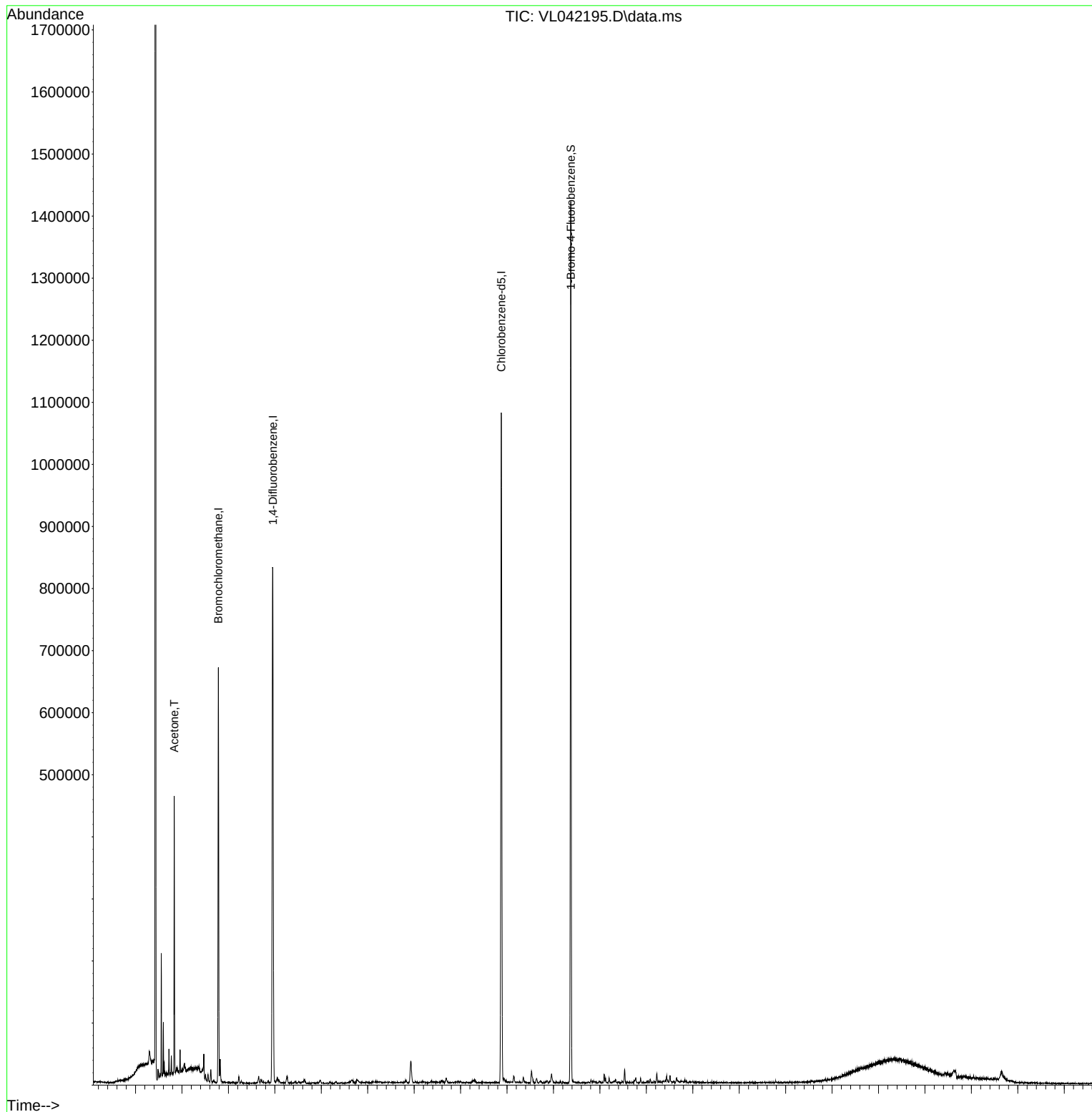
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042195.D  
Acq On : 28 Mar 2025 00:06  
Operator : SY/MD  
Sample : Q1669-01DL 5X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL

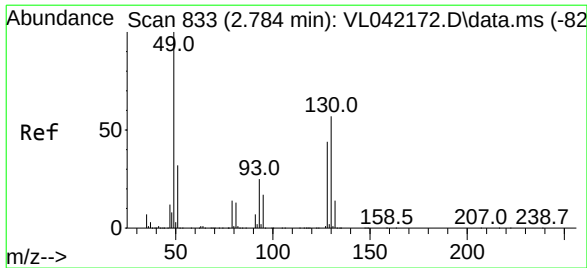
Quant Time: Mar 28 02:19:56 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

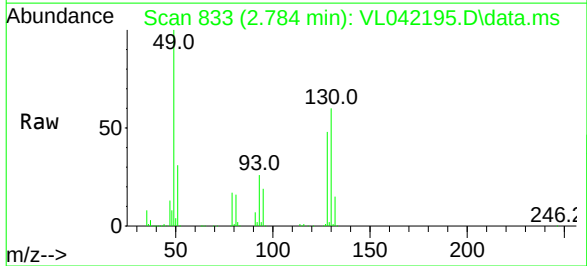






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 833  
Delta R.T. -0.000 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

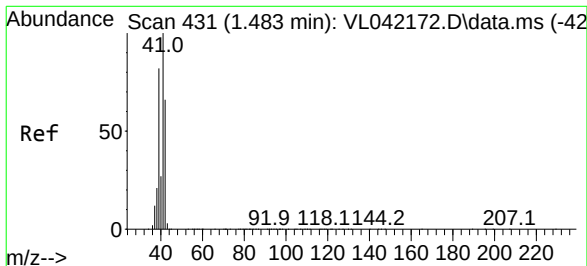
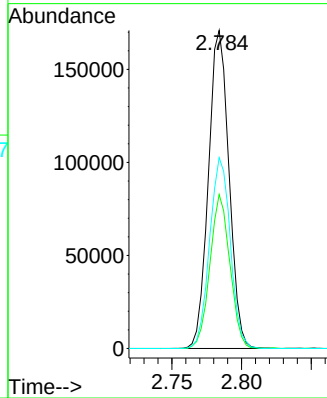
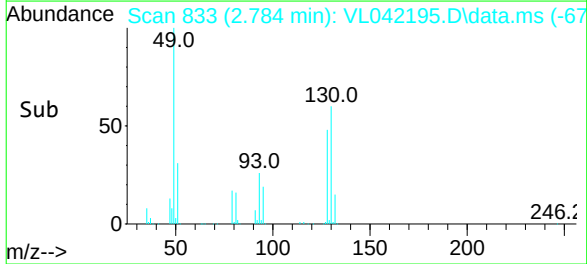
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL



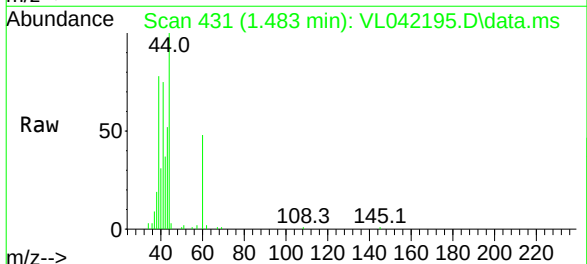
Tgt Ion: 49 Resp: 175494  
Ion Ratio Lower Upper  
49 100  
128 47.0 22.9 68.5  
130 60.4 28.8 86.4

Manual Integrations  
APPROVED

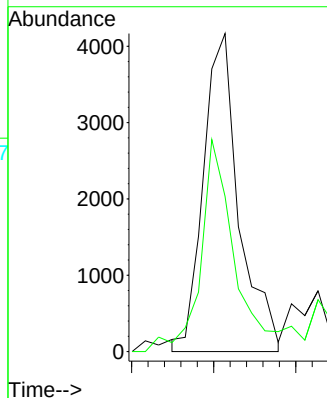
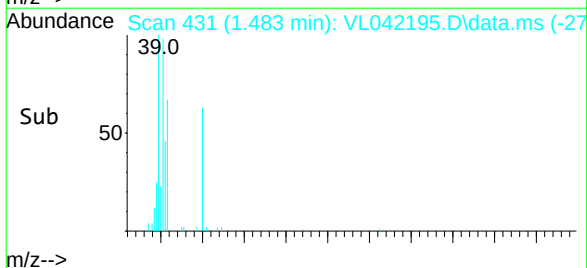
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

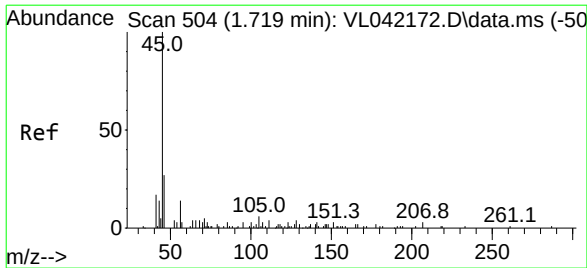


#9  
Propene  
Concen: 0.207 ppbv m  
RT: 1.483 min Scan# 431  
Delta R.T. -0.000 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06



Tgt Ion: 41 Resp: 2514  
Ion Ratio Lower Upper  
41 100  
42 48.5 55.4 83.2#





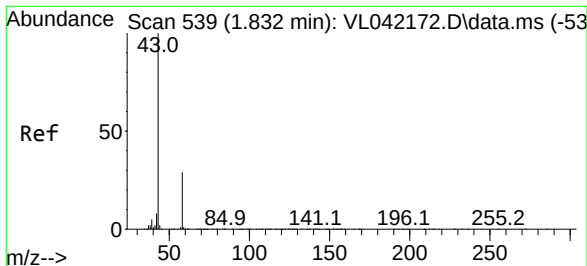
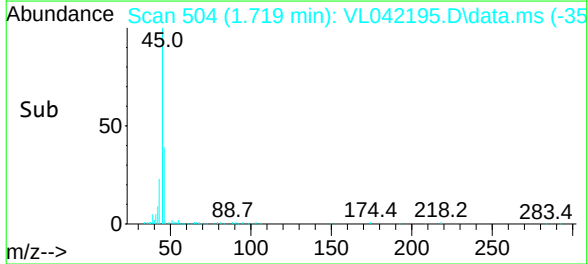
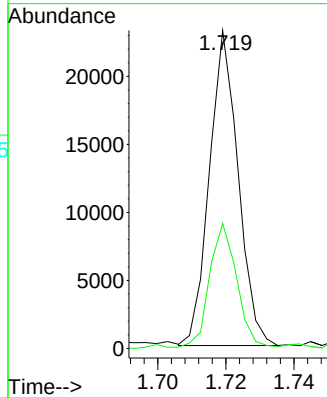
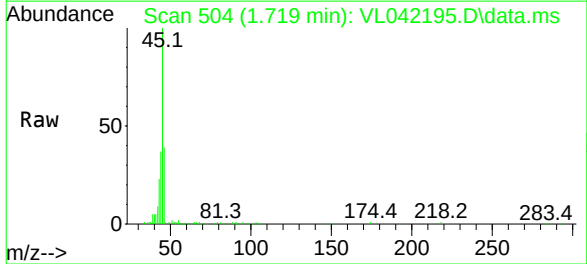
#13  
Ethanol  
Concen: 11.835 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL

Tgt Ion: 45 Resp: 13574  
Ion Ratio Lower Upper  
45 100  
46 40.2 20.2 80.8

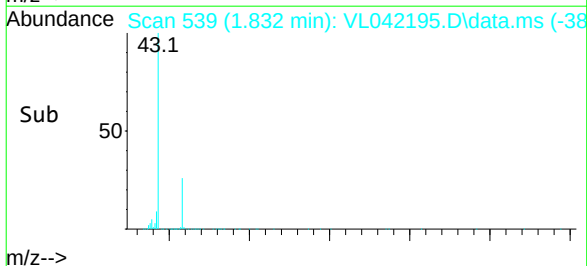
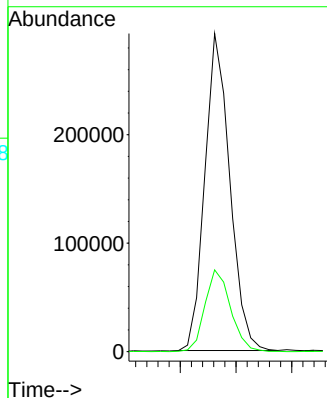
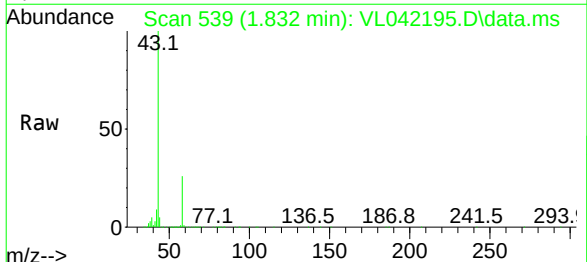
Manual Integrations  
APPROVED

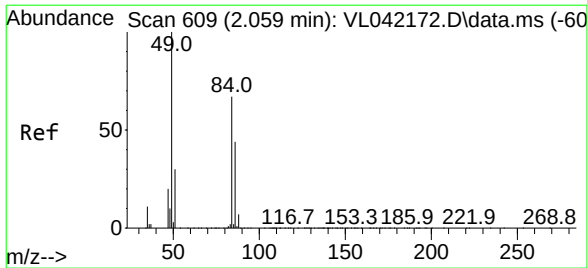
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#15  
Acetone  
Concen: 7.416 ppbv  
RT: 1.832 min Scan# 539  
Delta R.T. -0.000 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

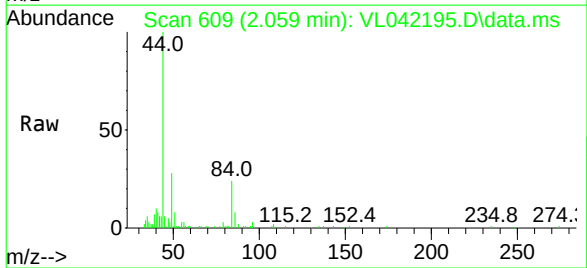
Tgt Ion: 43 Resp: 182020  
Ion Ratio Lower Upper  
43 100  
58 26.8 23.2 34.8





#20  
Methylene Chloride  
Concen: 0.221 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

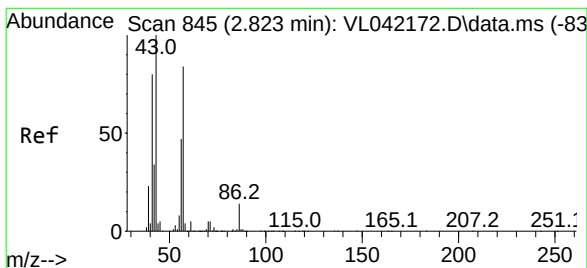
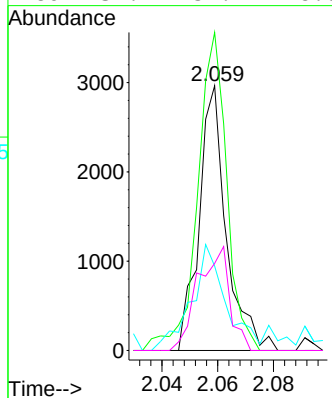
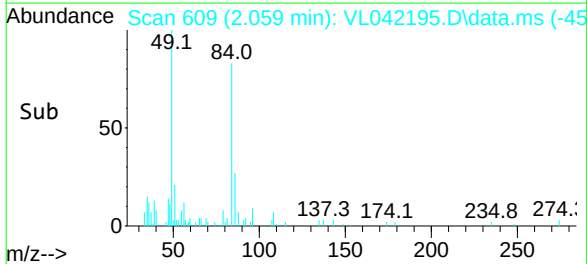
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 84      | 100   |       |        |
| 49      | 111.6 | 120.2 | 180.4# |
| 51      | 31.6  | 37.4  | 56.0#  |
| 86      | 32.9  | 52.4  | 78.6#  |

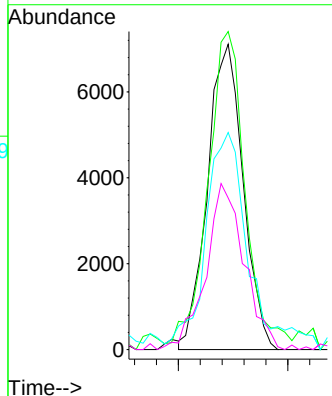
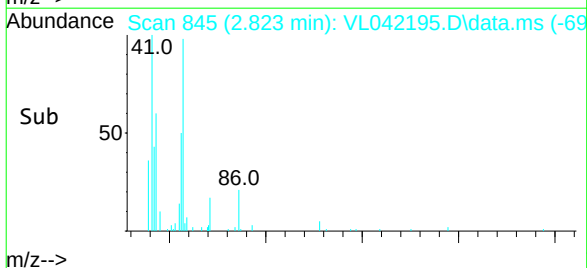
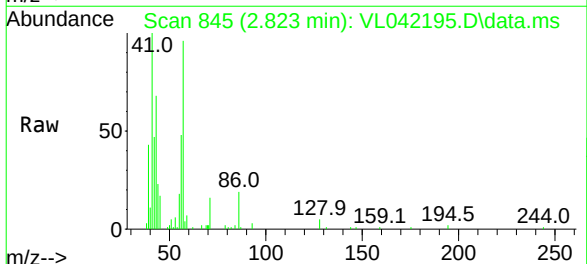
Manual Integrations  
APPROVED

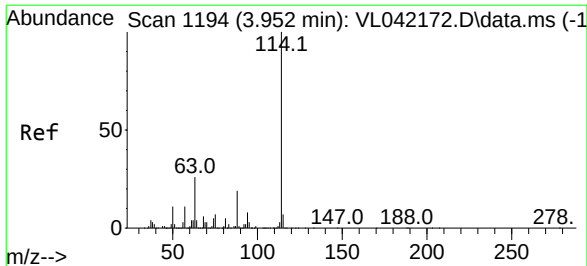
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#26  
Hexane  
Concen: 0.327 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

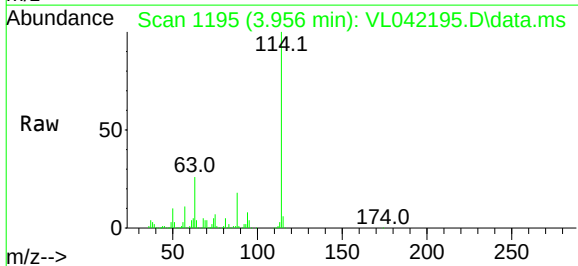
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 57      | 100   |       |        |
| 41      | 117.4 | 76.6  | 114.8# |
| 43      | 86.5  | 207.8 | 311.8# |
| 56      | 59.3  | 43.6  | 65.4   |





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.956 min Scan# 1194  
Delta R.T. 0.003 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

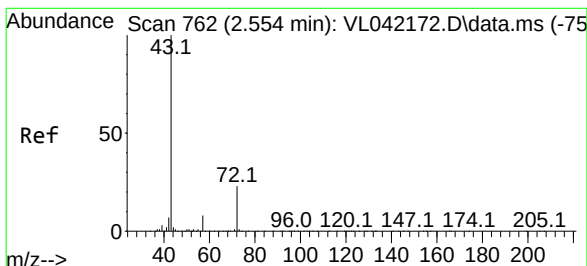
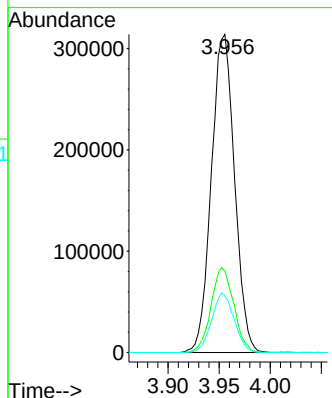
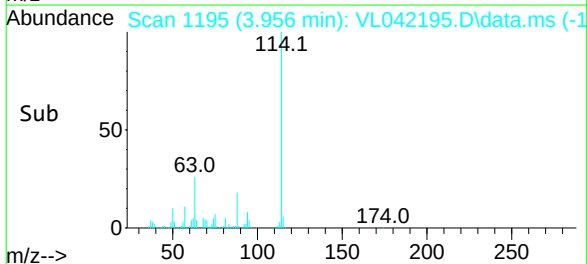
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL



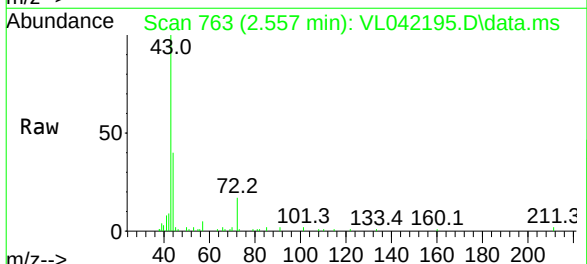
Tgt Ion: 114 Resp: 495493  
Ion Ratio Lower Upper  
114 100  
63 26.2 20.7 31.1  
88 18.1 15.0 22.4

Manual Integrations  
APPROVED

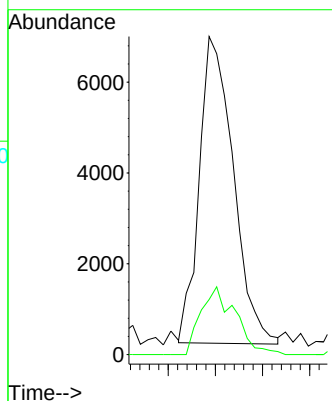
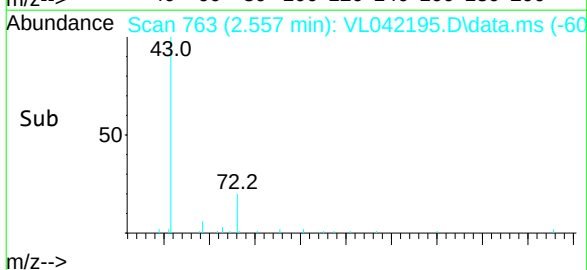
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

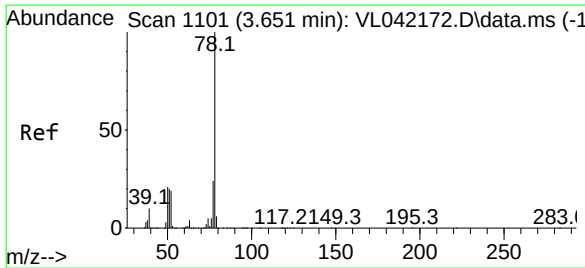


#34  
2-Butanone  
Concen: 0.189 ppbv  
RT: 2.557 min Scan# 763  
Delta R.T. 0.003 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06



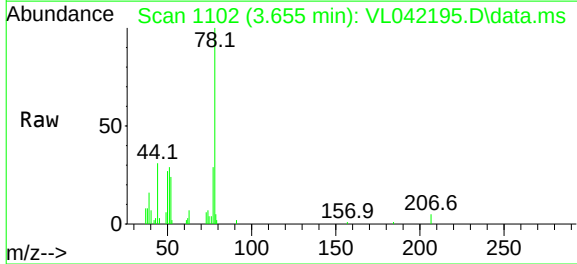
Tgt Ion: 43 Resp: 6791  
Ion Ratio Lower Upper  
43 100  
72 22.7 18.2 27.2





#36  
Benzene  
Concen: 0.115 ppbv  
RT: 3.655 min Scan# 1101  
Delta R.T. 0.003 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

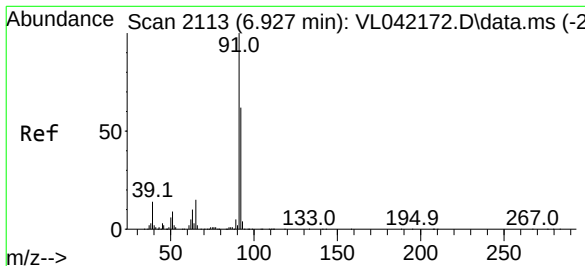
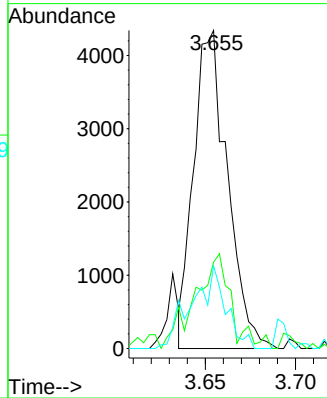
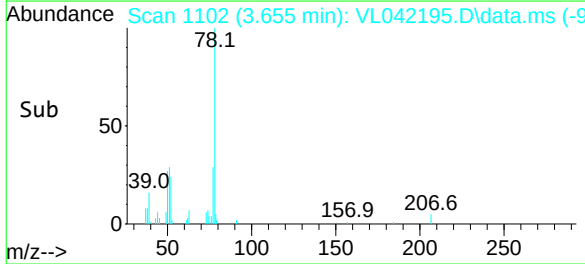
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL



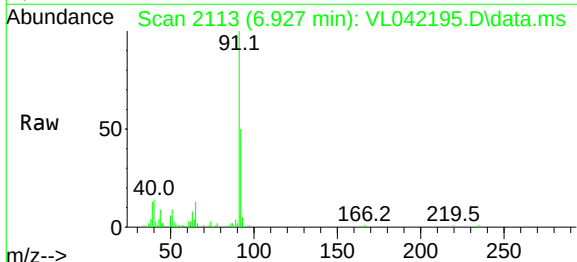
Tgt Ion: 78 Resp: 5647  
Ion Ratio Lower Upper  
78 100  
77 27.1 19.1 28.7  
50 16.7 16.6 24.8

Manual Integrations  
APPROVED

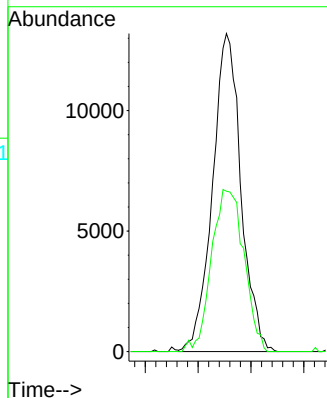
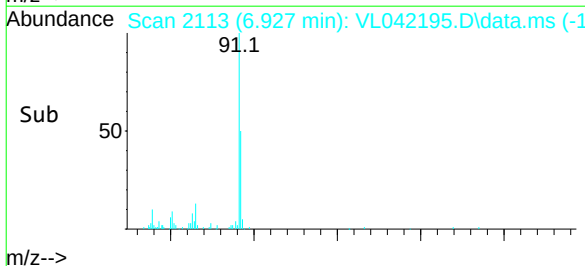
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

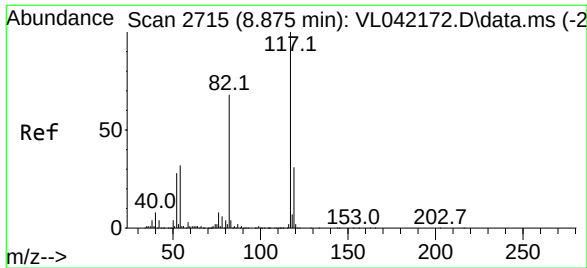


#53  
Toluene  
Concen: 0.424 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. -0.000 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06



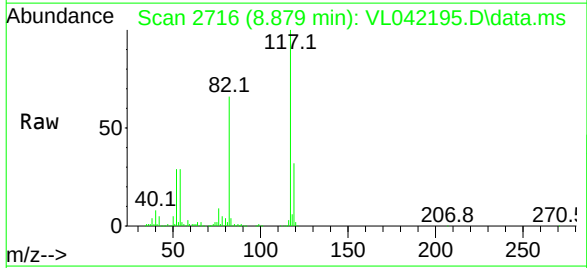
Tgt Ion: 91 Resp: 24689  
Ion Ratio Lower Upper  
91 100  
92 58.1 48.4 72.6





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.879 min Scan# 2715  
Delta R.T. 0.003 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

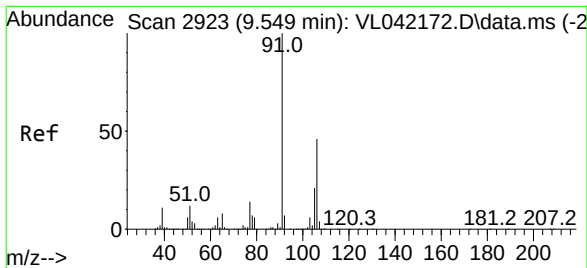
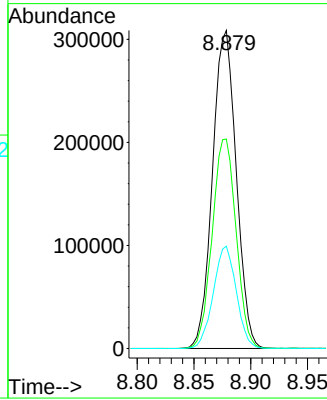
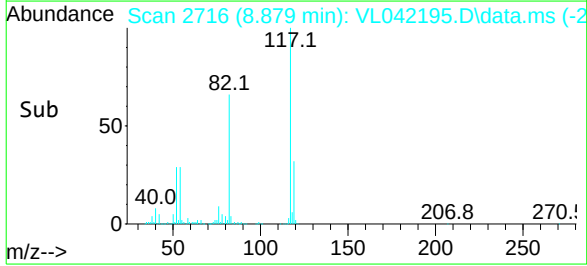
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL



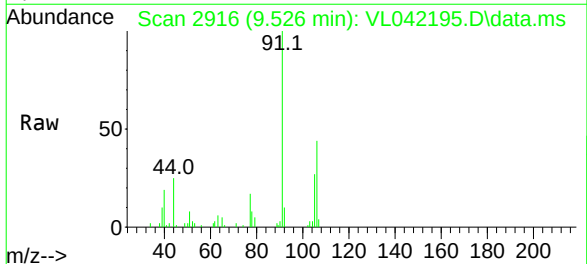
Tgt Ion: 117 Resp: 449375  
Ion Ratio Lower Upper  
117 100  
82 66.4 55.8 83.6  
119 31.3 25.5 38.3

Manual Integrations  
APPROVED

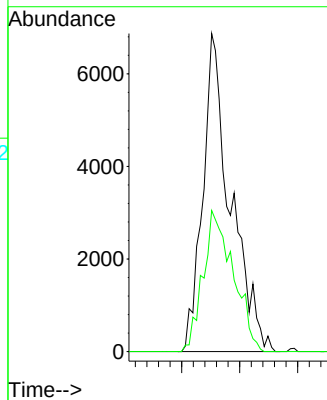
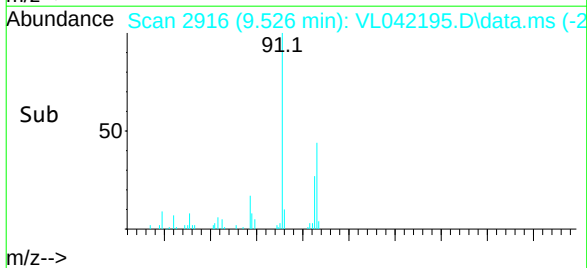
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

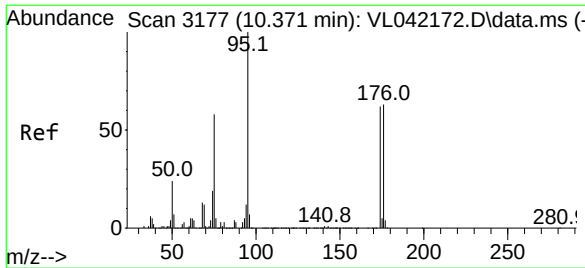


#59  
m/p-Xylene  
Concen: 0.179 ppbv m  
RT: 9.526 min Scan# 2916  
Delta R.T. -0.023 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06



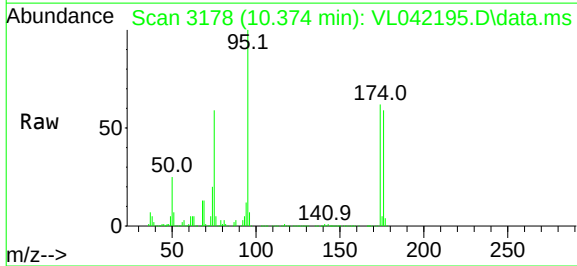
Tgt Ion: 91 Resp: 11405  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.4 54.6#





#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.904 ppbv  
RT: 10.374 min Scan# 3177  
Delta R.T. 0.003 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

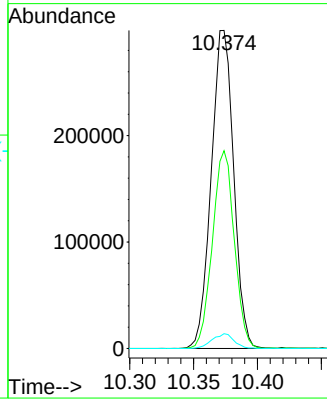
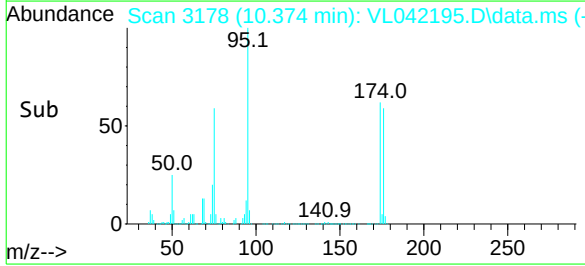
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 95    | Resp: | 365476 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 60.7  | 50.6  | 76.0   |
| 175       | 4.6   | 3.8   | 5.6    |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | IA-B9-2-3262025                                 | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-02                                        | 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 |
| VL042186.D        | 1         |           | 03/27/25 18:59 | VL032725      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.41          | 2.03           | J         | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.22          | 0.45           | 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         | 0.20          | 1.12           | 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             | 0.38          | 1.15           | J         | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 0.49          | 2.01           | J         | 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                        | 2.40          | 5.70           |           | 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             | 0.35          | 1.22           | 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           | J         | 0.76  | 1.72       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 0.42          | 1.24           | 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                     | 0.12          | 0.59           | J         | 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         | 0.37          | 1.73           | J         | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 0.67          | 2.14           |           | 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           | 0.43          | 1.76           | J         | 0.37  | 2.05       | ug/m3 |
| 108-88-3       | Toluene                        | 2.30          | 8.67           |           | 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:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | IA-B9-2-3262025                                 | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-02                                        | 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 |
| VL042186.D        | 1         |           | 03/27/25 18:59 | VL032725      |

| 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             | 0.39          | 1.69           | J         | 0.52  | 2.17       | ug/m3 |
| 179601-23-1 | m/p-Xylene                | 1.40          | 6.08           |           | 0.91  | 4.34       | ug/m3 |
| 95-47-6     | o-Xylene                  | 0.65          | 2.82           |           | 0.52  | 2.17       | ug/m3 |
| 100-42-5    | Styrene                   | 0.13          | 0.55           | J         | 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    | 0.18          | 0.88           | J         | 0.54  | 2.46       | ug/m3 |
| 95-63-6     | 1,2,4-Trimethylbenzene    | 0.54          | 2.65           |           | 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            | 0.20          | 0.98           | J         | 0.59  | 2.46       | ug/m3 |
| 110-54-3    | Hexane                    | 2.30          | 8.11           |           | 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 |

### SURROGATES

|          |                         |      |  |                     |     |         |
|----------|-------------------------|------|--|---------------------|-----|---------|
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.90 |  | 70 (65) - 130 (135) | 99% | SPK: 10 |
|----------|-------------------------|------|--|---------------------|-----|---------|

### INTERNAL STANDARDS

|           |                     |        |       |
|-----------|---------------------|--------|-------|
| 74-97-5   | Bromochloromethane  | 188000 | 2.784 |
| 540-36-3  | 1,4-Difluorobenzene | 538000 | 3.955 |
| 3114-55-4 | Chlorobenzene-d5    | 491000 | 8.878 |

### TENTATIVE IDENTIFIED COMPOUNDS

|             |                       |      |   |      |      |
|-------------|-----------------------|------|---|------|------|
| 75-45-6     | Chlorodifluoromethane | 0.24 | J | 1.47 | ppbv |
| 115-07-1    | Propene               | 1.60 | J | 1.49 | ppbv |
| 000106-97-8 | Butane                | 1.10 | J | 1.62 | ppbv |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | IA-B9-2-3262025                                 | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-02                                        | 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 |
| VL042186.D        | 1         |           | 03/27/25 18:59 | VL032725      |

| CAS Number  | Parameter             | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|-------------|-----------------------|---------------|----------------|-----------|-----|------------|-------|
| 000109-66-0 | Pentane               | 1.70          |                | J         |     | 1.96       | ppbv  |
| 000107-83-5 | Pentane, 2-methyl-    | 3.10          |                | J         |     | 2.47       | ppbv  |
| 000096-14-0 | Pentane, 3-methyl-    | 1.60          |                | J         |     | 2.62       | ppbv  |
| 000096-37-7 | Cyclopentane, methyl- | 1.00          |                | J         |     | 3.23       | ppbv  |

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\VL032725\  
 Data File : VL042186.D  
 Acq On : 27 Mar 2025 18:59  
 Operator : SY/MD  
 Sample : Q1669-02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-2-3262025

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:15:31 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    | 187729   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.955  | 114   | 538422   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.878  | 117   | 491411   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 400118   | 9.915    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 99.100%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.496  | 85    | 11483    | 0.414    | ppbv   | 94       |
| 3) Chlorodifluoromethane    | 1.473  | 51    | 6817m    | 0.241    | ppbv   |          |
| 4) Chloromethane            | 1.531  | 50    | 2440     | 0.215    | ppbv   | 96       |
| 9) Propene                  | 1.486  | 41    | 20814m   | 1.604    | ppbv   |          |
| 10) Heptane                 | 4.978  | 43    | 16872m   | 0.489    | ppbv   |          |
| 11) Trichlorofluoromethane  | 1.877  | 101   | 5432     | 0.201    | ppbv   | 87       |
| 13) Ethanol                 | 1.719  | 45    | 57647    | 46.985   | ppbv   | 83       |
| 15) Acetone                 | 1.835  | 43    | 64251    | 2.447    | ppbv # | 82       |
| 17) tert-Butyl alcohol      | 2.043  | 59    | 12249    | 0.375    | ppbv # | 83       |
| 20) Methylene Chloride      | 2.059  | 84    | 3376     | 0.345    | ppbv # | 91       |
| 26) Hexane                  | 2.826  | 57    | 60389    | 2.294    | ppbv # | 34       |
| 29) Chloroform              | 2.845  | 83    | 4455     | 0.116    | ppbv   | 92       |
| 30) Cyclohexane             | 3.849  | 84    | 5046m    | 0.221    | ppbv   |          |
| 34) 2-Butanone              | 2.564  | 43    | 16547    | 0.424    | ppbv   | 96       |
| 35) Carbon Tetrachloride    | 3.758  | 117   | 2811m    | 0.067    | ppbv   |          |
| 36) Benzene                 | 3.654  | 78    | 35891    | 0.672    | ppbv # | 90       |
| 44) 2,2,4-Trimethylpentane  | 4.638  | 57    | 33449m   | 0.371    | ppbv   |          |
| 50) 4-Methyl-2-Pentanone    | 5.765  | 43    | 26447    | 0.427    | ppbv   | 99       |
| 53) Toluene                 | 6.933  | 91    | 146301   | 2.312    | ppbv   | 99       |
| 58) Ethyl Benzene           | 9.351  | 91    | 33902    | 0.388    | ppbv # | 89       |
| 59) m/p-Xylene              | 9.532  | 91    | 96658    | 1.387    | ppbv   | 97       |
| 60) o-Xylene                | 9.959  | 91    | 45203    | 0.647    | ppbv   | 99       |
| 61) Styrene                 | 9.872  | 104   | 4574m    | 0.132    | ppbv   |          |
| 72) 4-Ethyltoluene          | 11.125 | 105   | 17501    | 0.201    | ppbv # | 55       |
| 73) 1,3,5-Trimethylbenzene  | 11.199 | 105   | 13983    | 0.184    | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene  | 11.536 | 105   | 47154    | 0.539    | ppbv # | 63       |

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

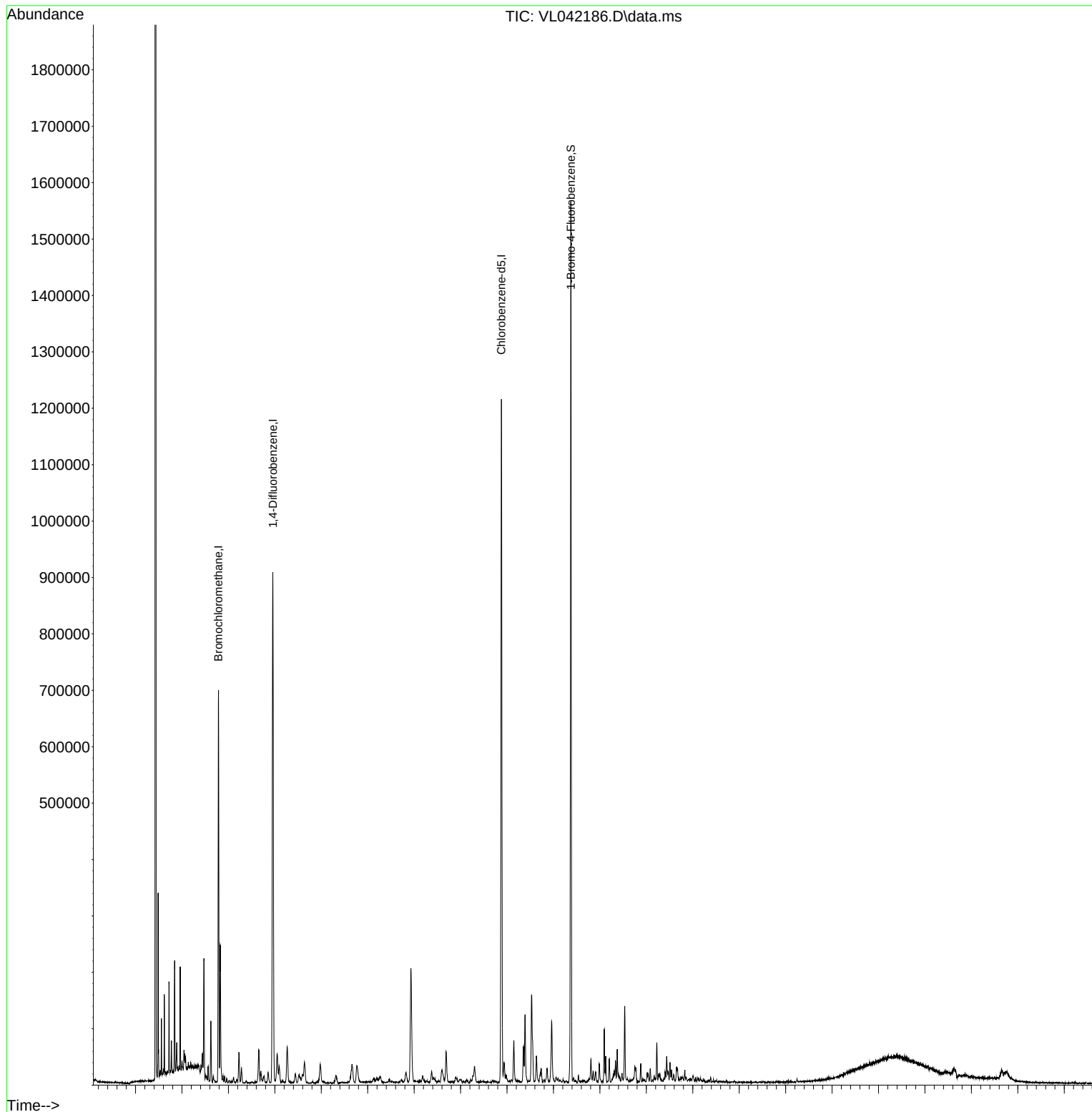
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042186.D  
Acq On : 27 Mar 2025 18:59  
Operator : SY/MD  
Sample : Q1669-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

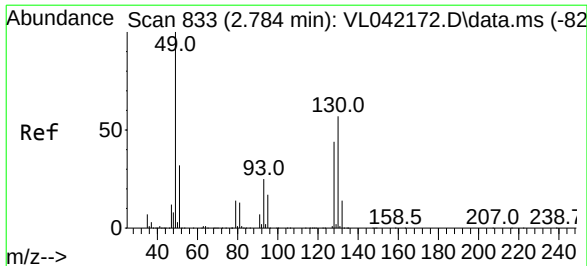
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

Quant Time: Mar 28 02:15:31 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 02:00:52 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

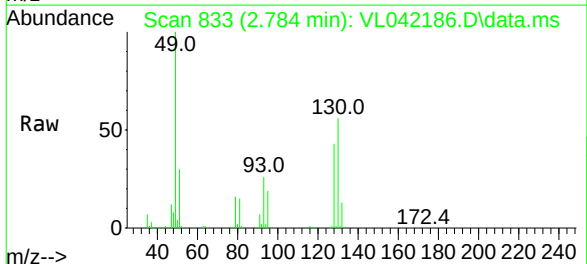
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 833  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

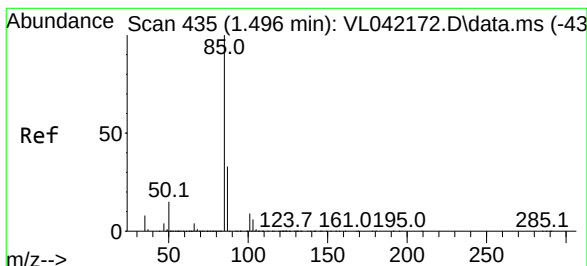
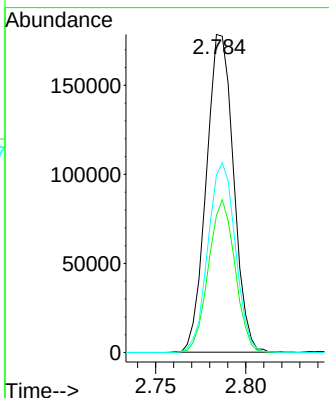
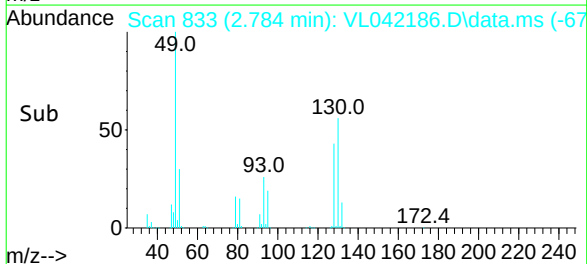
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025



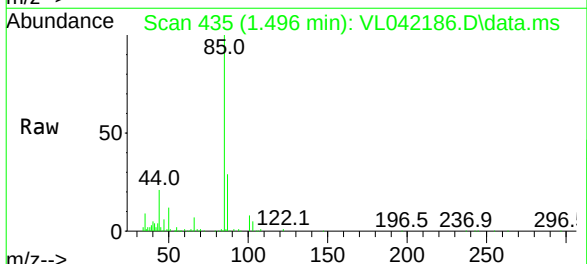
Tgt Ion: 49 Resp: 187729  
Ion Ratio Lower Upper  
49 100  
128 46.8 22.9 68.5  
130 60.0 28.8 86.4

Manual Integrations  
APPROVED

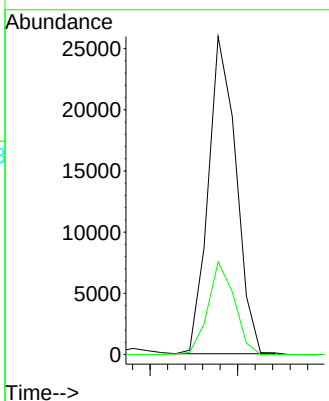
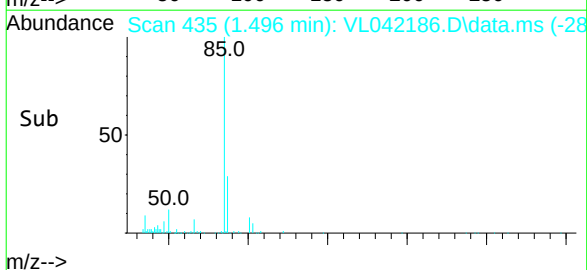
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

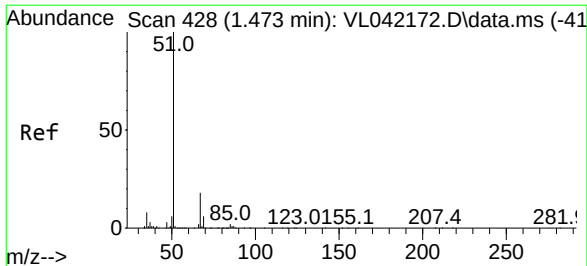


#2  
Dichlorodifluoromethane  
Concen: 0.414 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59



Tgt Ion: 85 Resp: 11483  
Ion Ratio Lower Upper  
85 100  
87 29.2 26.1 39.1





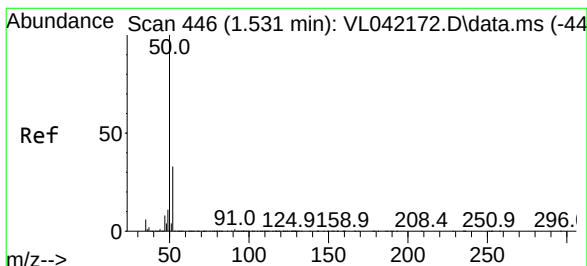
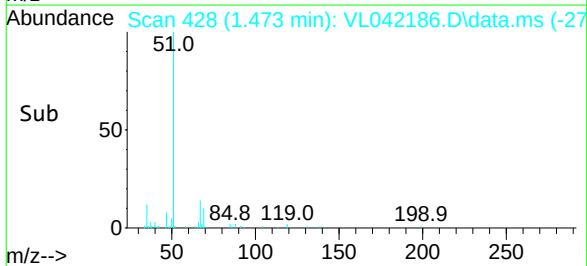
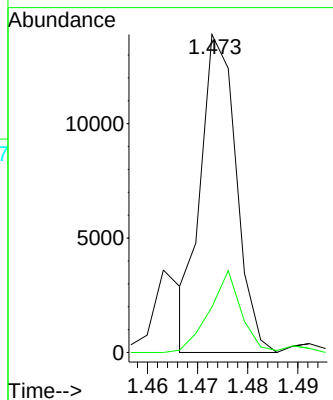
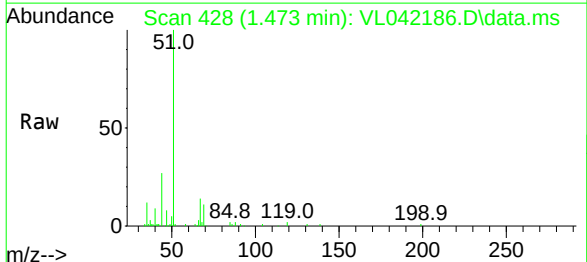
#3  
Chlorodifluoromethane  
Concen: 0.241 ppbv  
RT: 1.473 min Scan# 428  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Instrument : MSVOA\_L  
ClientSampleId : IA-B9-2-3262025

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 51      | 100   |       |       |
| 67      | 26.8  | 15.0  | 22.6  |

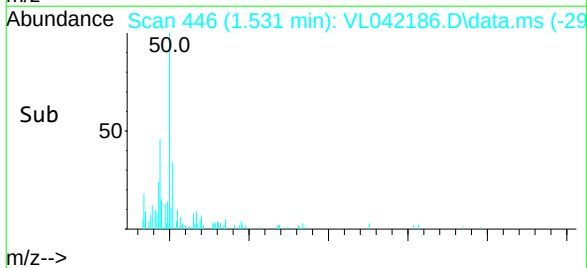
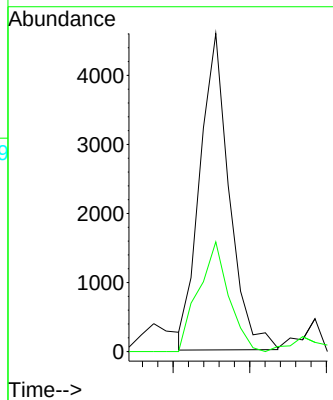
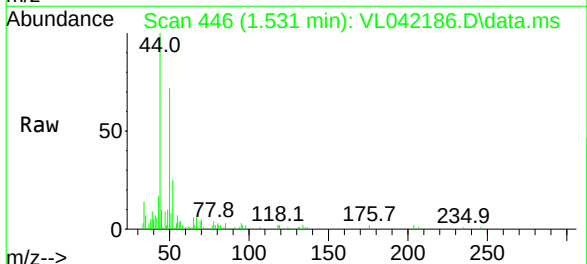
Manual Integrations  
APPROVED

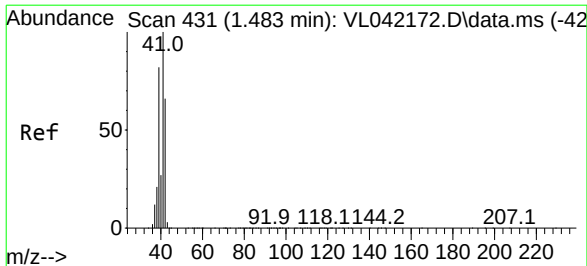
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025



#4  
Chloromethane  
Concen: 0.215 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 50      | 100   |       |       |
| 52      | 34.9  | 26.1  | 39.1  |





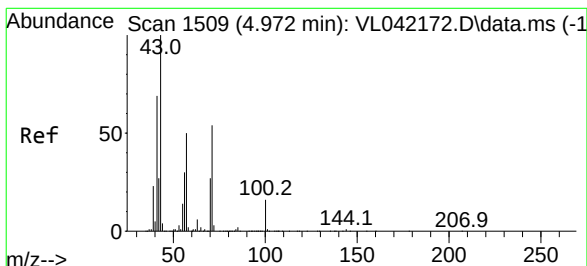
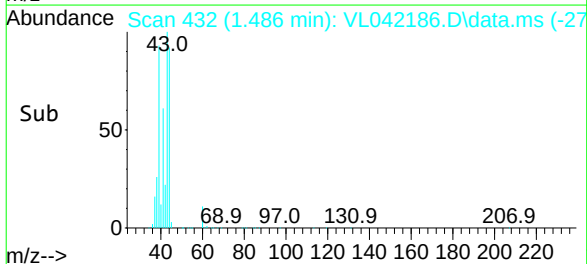
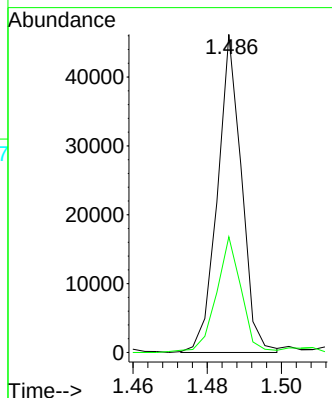
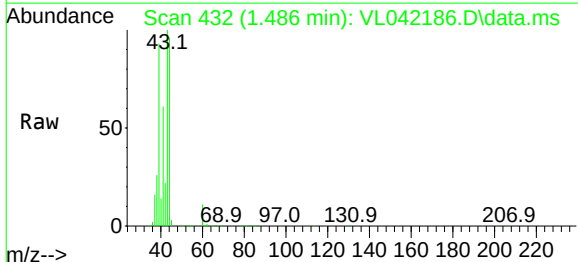
#9  
 Propene  
 Concen: 1.604 ppbv m  
 RT: 1.486 min Scan# 431  
 Delta R.T. 0.003 min  
 Lab File: VL042186.D  
 Acq: 27 Mar 2025 18:59

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-2-3262025

Tgt Ion: 41 Resp: 20814  
 Ion Ratio Lower Upper  
 41 100  
 42 32.6 55.4 83.2#

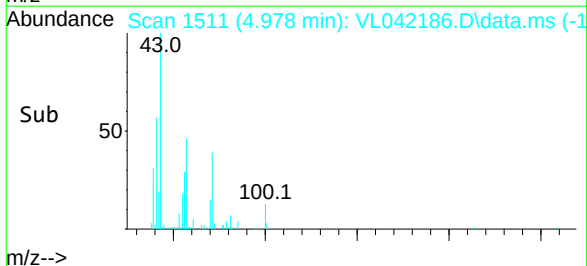
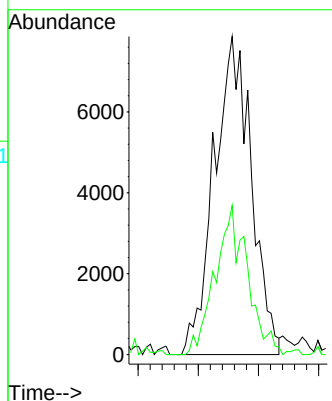
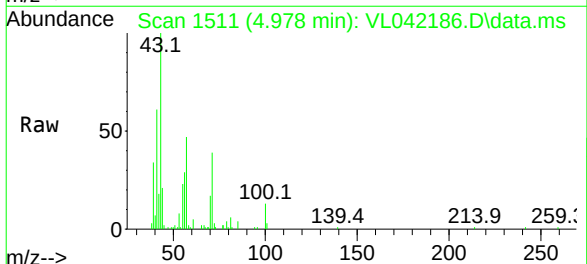
Manual Integrations  
 APPROVED

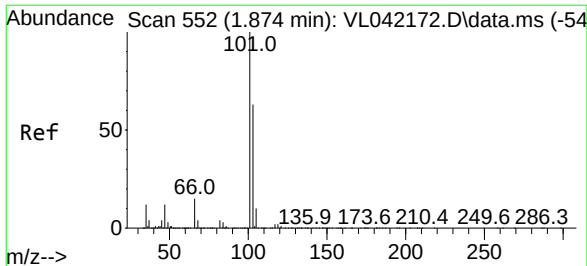
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#10  
 Heptane  
 Concen: 0.489 ppbv m  
 RT: 4.978 min Scan# 1511  
 Delta R.T. 0.006 min  
 Lab File: VL042186.D  
 Acq: 27 Mar 2025 18:59

Tgt Ion: 43 Resp: 16872  
 Ion Ratio Lower Upper  
 43 100  
 57 41.3 39.4 59.2





#11

Trichlorofluoromethane

Concen: 0.201 ppbv

RT: 1.877 min Scan# 552

Delta R.T. 0.003 min

Lab File: VL042186.D

Acq: 27 Mar 2025 18:59

Instrument :

MSVOA\_L

ClientSampleId :

IA-B9-2-3262025

Tgt Ion: 101 Resp: 5432

Ion Ratio Lower Upper

101 100

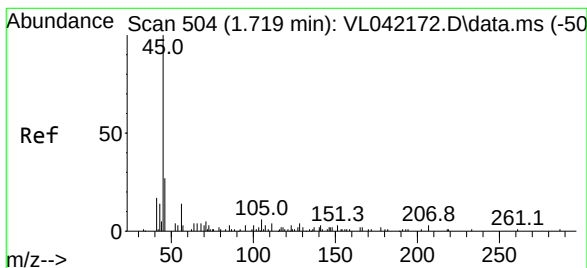
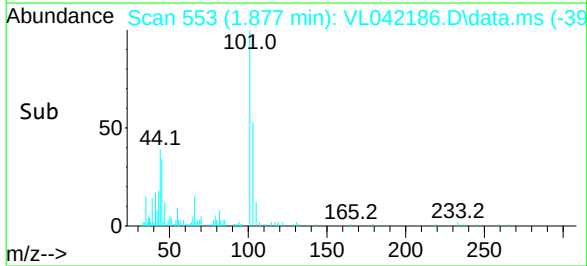
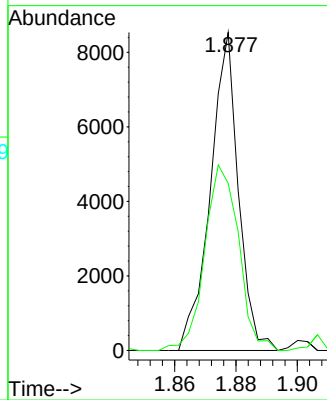
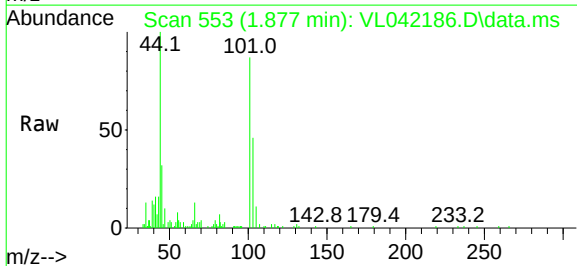
103 52.5 50.2 75.2

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025

Supervised By : Mahesh Dadoda 04/03/2025



#13

Ethanol

Concen: 46.985 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL042186.D

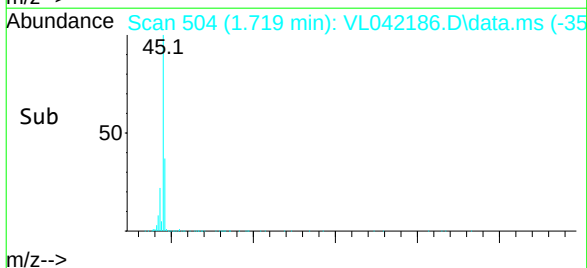
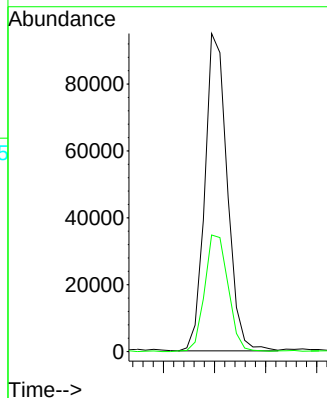
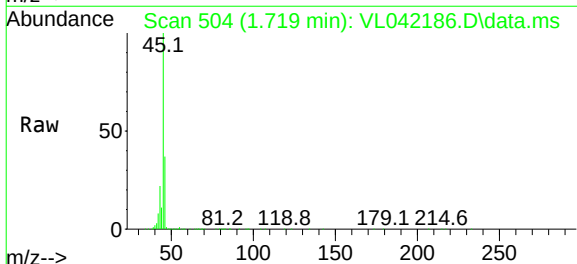
Acq: 27 Mar 2025 18:59

Tgt Ion: 45 Resp: 57647

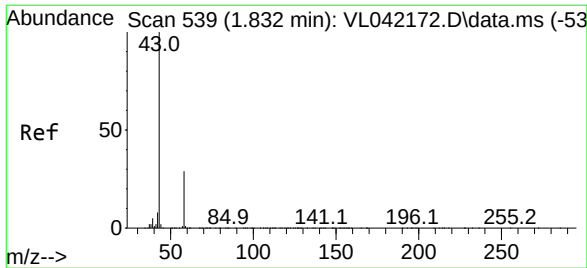
Ion Ratio Lower Upper

45 100

46 39.0 20.2 80.8







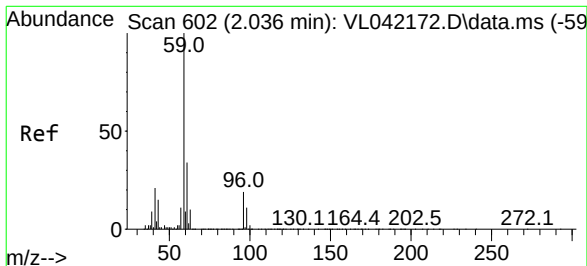
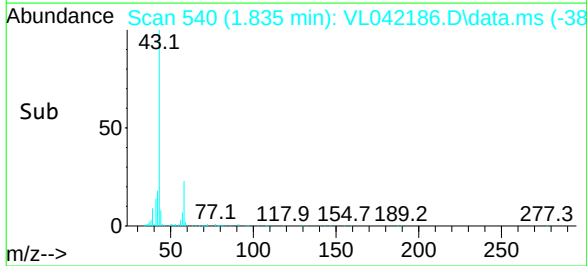
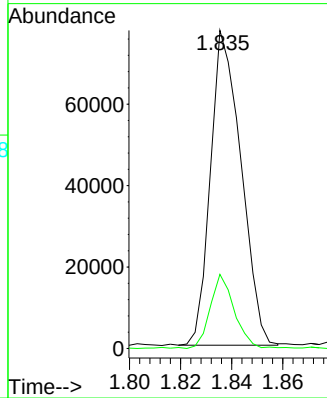
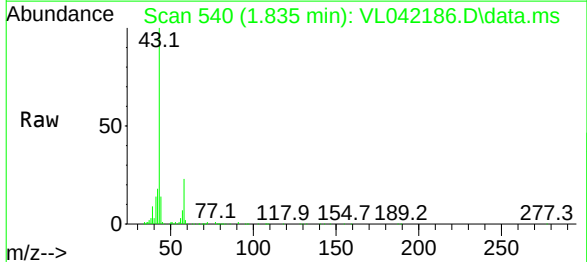
#15  
Acetone  
Concen: 2.447 ppbv  
RT: 1.835 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

Tgt Ion: 43 Resp: 64251  
Ion Ratio Lower Upper  
43 100  
58 19.2 23.2 34.8#

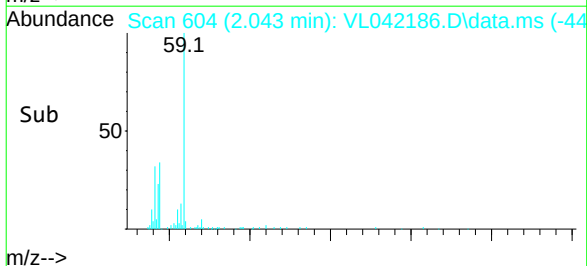
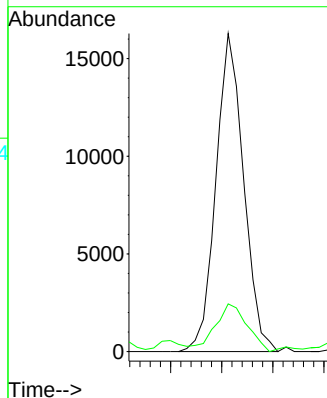
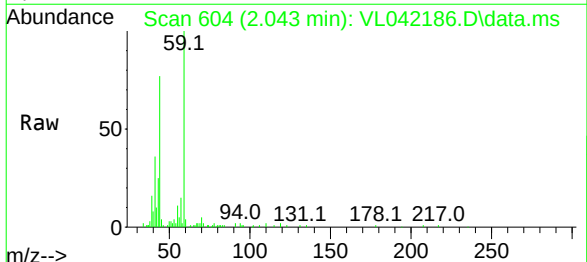
Manual Integrations  
APPROVED

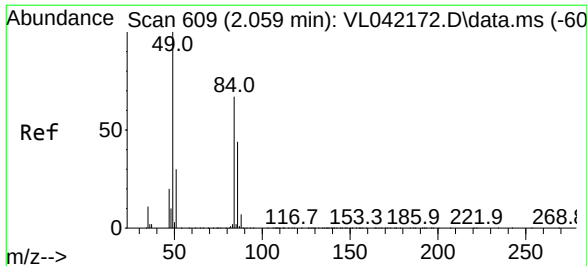
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#17  
tert-Butyl alcohol  
Concen: 0.375 ppbv  
RT: 2.043 min Scan# 604  
Delta R.T. 0.006 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

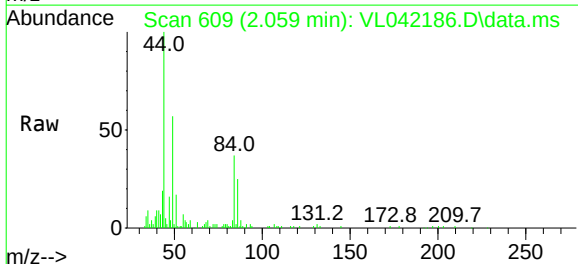
Tgt Ion: 59 Resp: 12249  
Ion Ratio Lower Upper  
59 100  
57 17.6 8.9 13.3#





#20  
Methylene Chloride  
Concen: 0.345 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

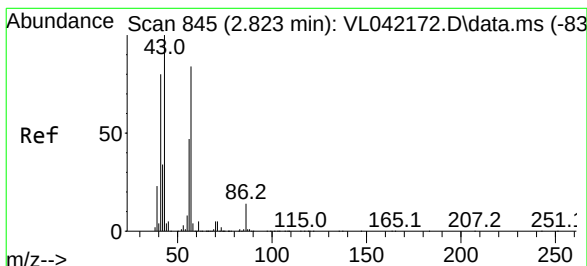
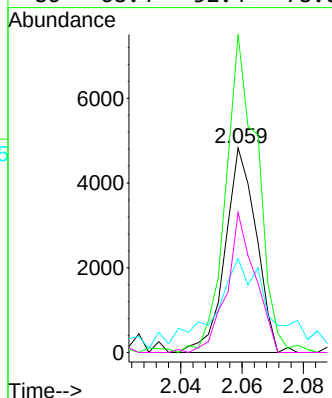
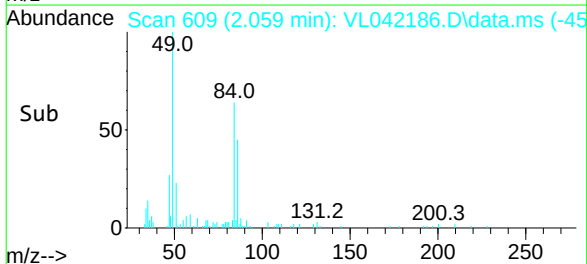
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 3376  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 161.5 | 120.2 | 180.4 |
| 51       | 34.0  | 37.4  | 56.0  |
| 86       | 68.4  | 52.4  | 78.6  |

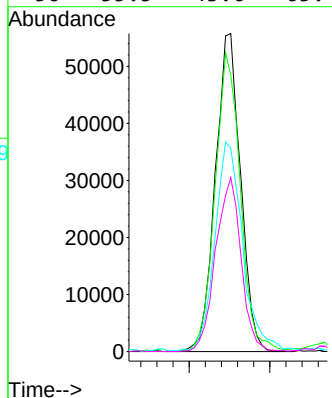
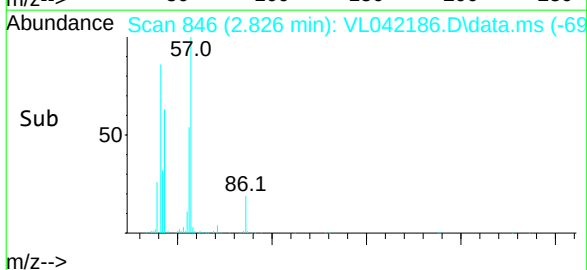
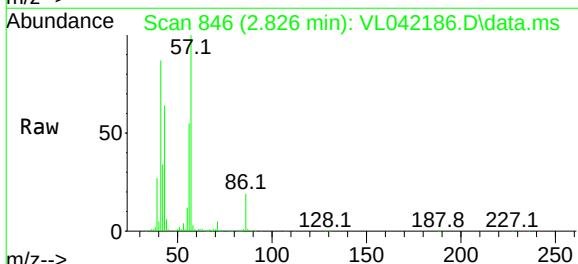
Manual Integrations  
APPROVED

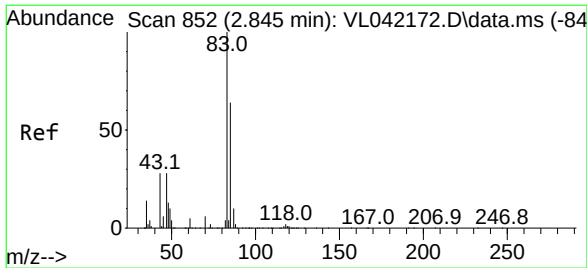
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#26  
Hexane  
Concen: 2.294 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 57    | Resp: | 60389 |
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 94.6  | 76.6  | 114.8 |
| 43       | 73.8  | 207.8 | 311.8 |
| 56       | 55.5  | 43.6  | 65.4  |





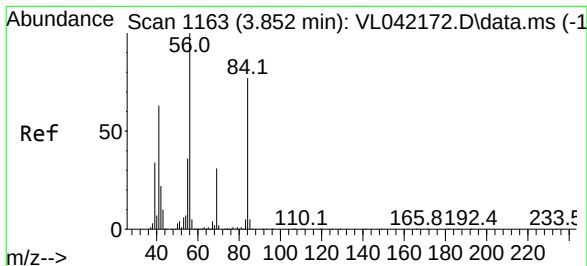
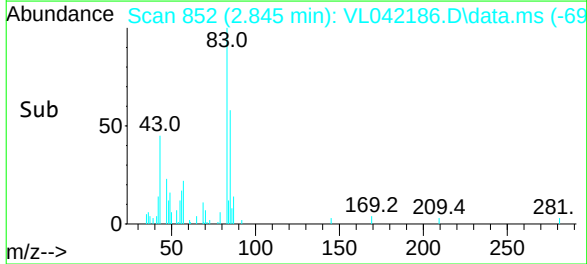
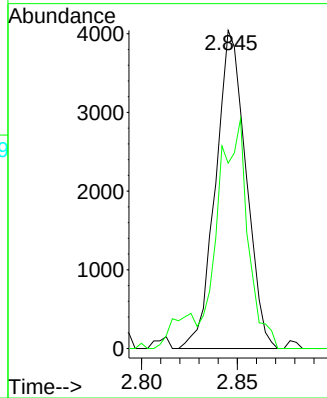
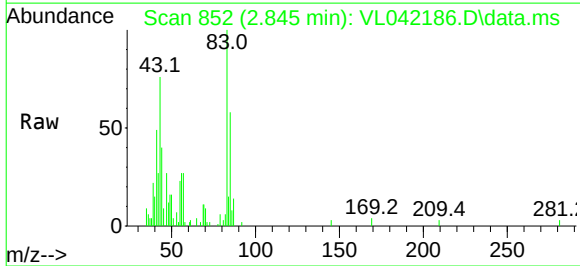
#29  
Chloroform  
Concen: 0.116 ppbv  
RT: 2.845 min Scan# 85  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

Tgt Ion: 83 Resp: 4455  
Ion Ratio Lower Upper  
83 100  
85 58.3 51.4 77.2

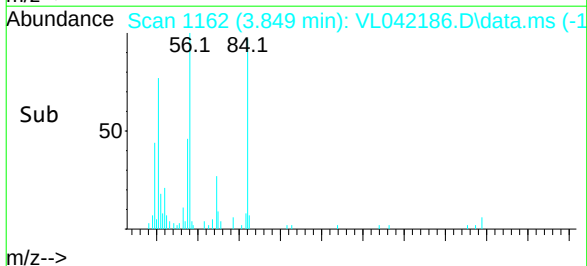
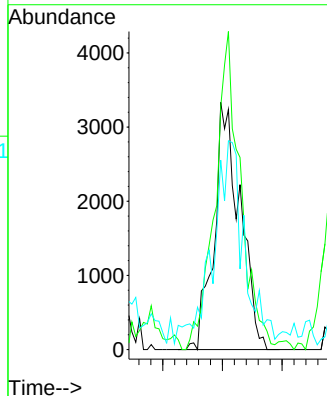
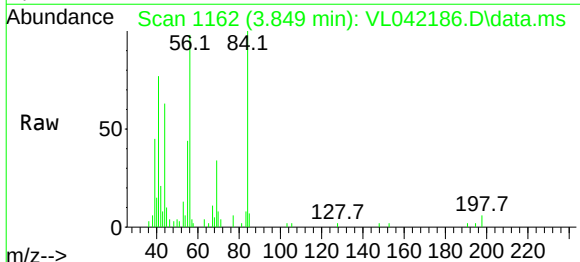
Manual Integrations  
APPROVED

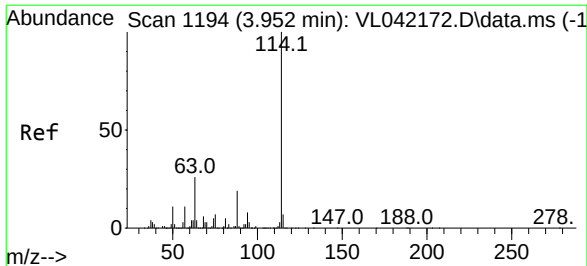
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#30  
Cyclohexane  
Concen: 0.221 ppbv m  
RT: 3.849 min Scan# 1162  
Delta R.T. -0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

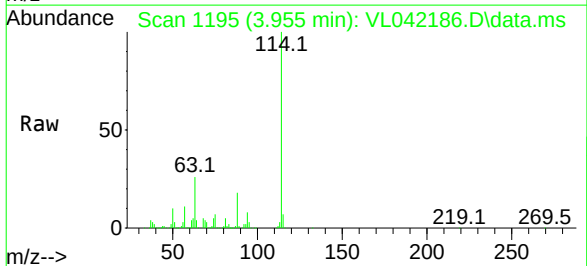
Tgt Ion: 84 Resp: 5046  
Ion Ratio Lower Upper  
84 100  
56 127.6 102.8 154.2  
41 90.5 66.5 99.7





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.955 min Scan# 1194  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

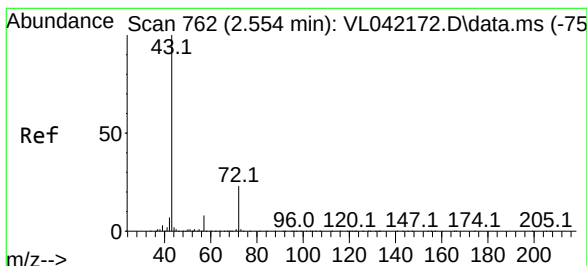
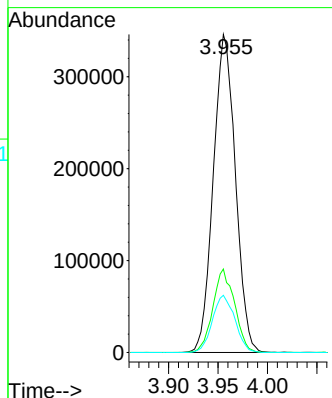
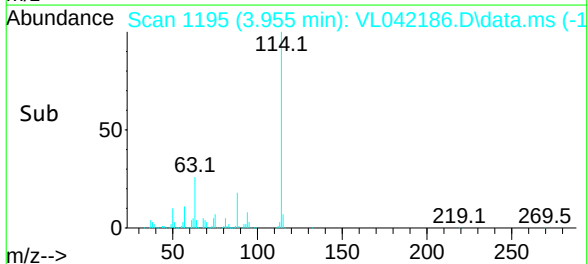
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025



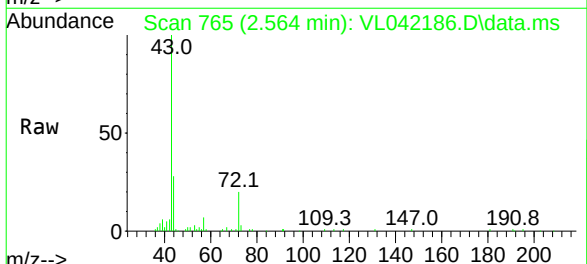
Tgt Ion: 114 Resp: 538422  
Ion Ratio Lower Upper  
114 100  
63 25.7 20.7 31.1  
88 18.3 15.0 22.4

Manual Integrations  
APPROVED

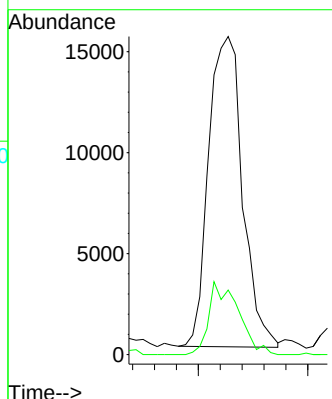
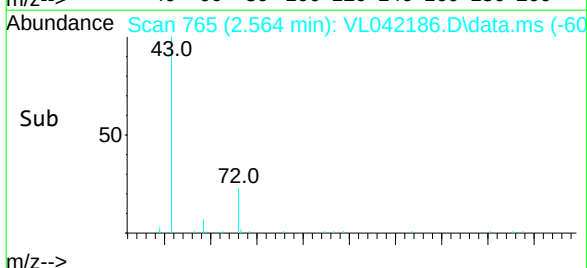
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

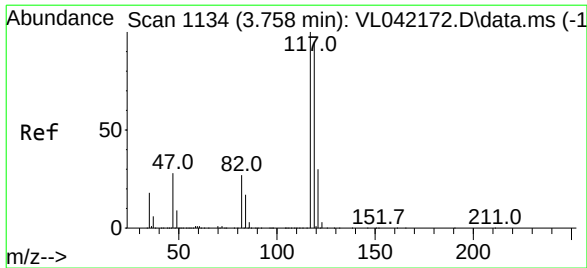


#34  
2-Butanone  
Concen: 0.424 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.009 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59



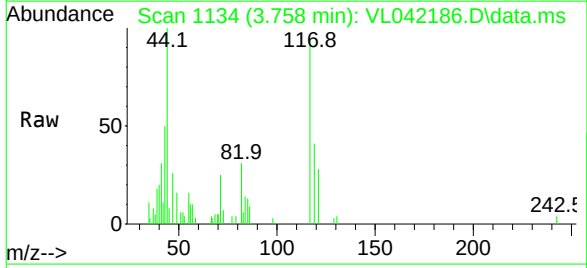
Tgt Ion: 43 Resp: 16547  
Ion Ratio Lower Upper  
43 100  
72 20.6 18.2 27.2





#35  
Carbon Tetrachloride  
Concen: 0.067 ppbv m  
RT: 3.758 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

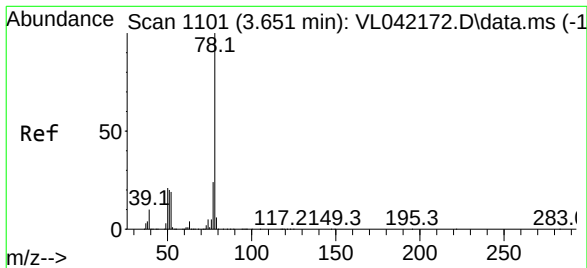
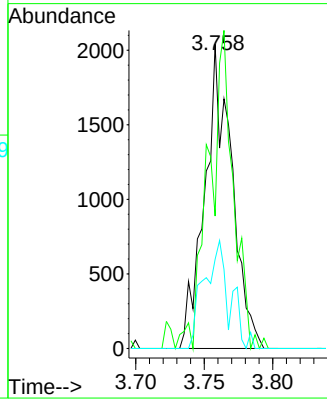
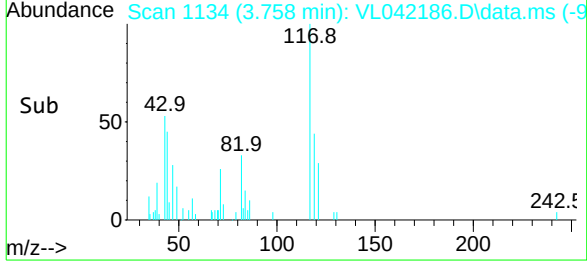
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 43.5  | 76.2  | 114.2# |
| 121     | 29.3  | 24.2  | 36.4   |

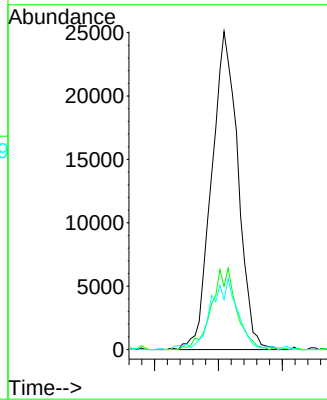
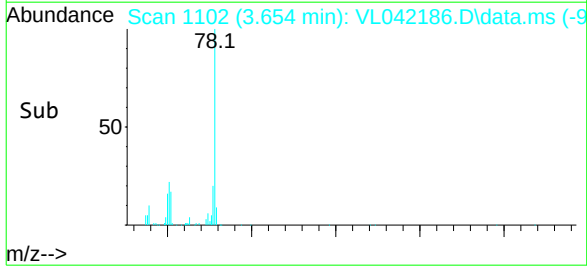
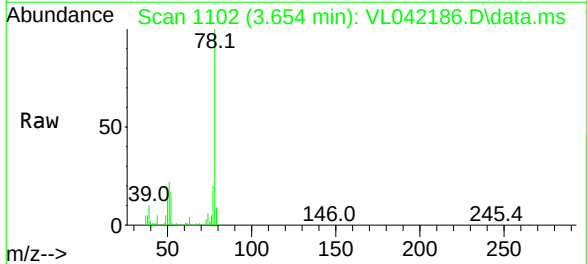
Manual Integrations  
APPROVED

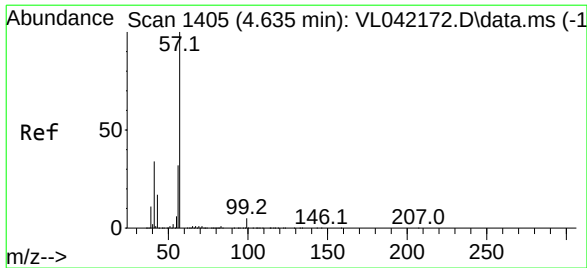
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#36  
Benzene  
Concen: 0.672 ppbv  
RT: 3.654 min Scan# 1102  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

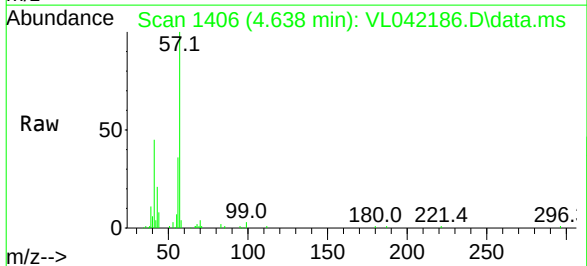
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 19.9  | 19.1  | 28.7  |
| 50      | 15.3  | 16.6  | 24.8# |





#44  
2,2,4-Trimethylpentane  
Concen: 0.371 ppbv m  
RT: 4.638 min Scan# 1405  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

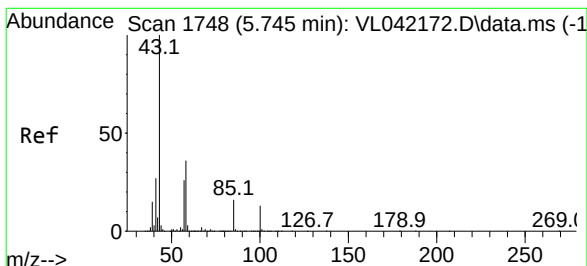
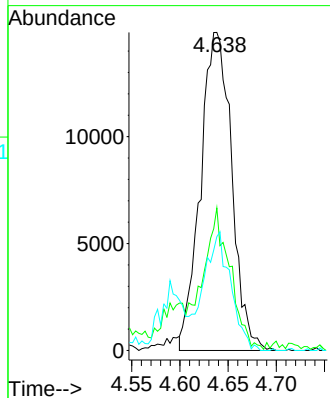
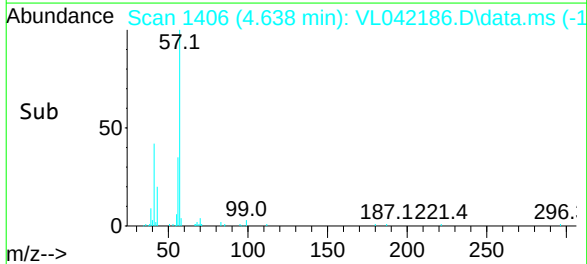
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025



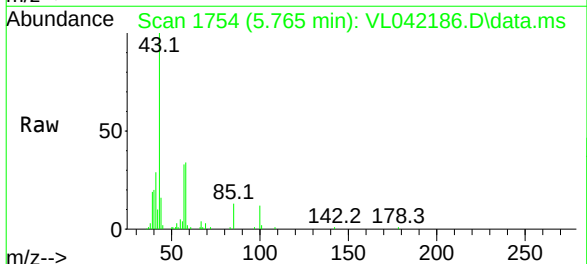
Tgt Ion: 57 Resp: 33449  
Ion Ratio Lower Upper  
57 100  
41 49.4 26.8 40.2#  
56 33.6 25.6 38.4

Manual Integrations  
APPROVED

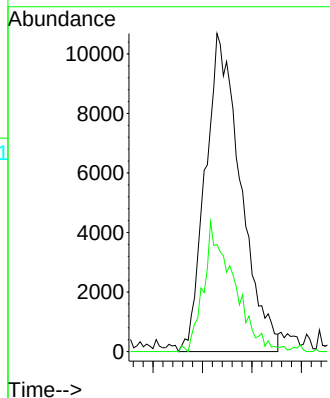
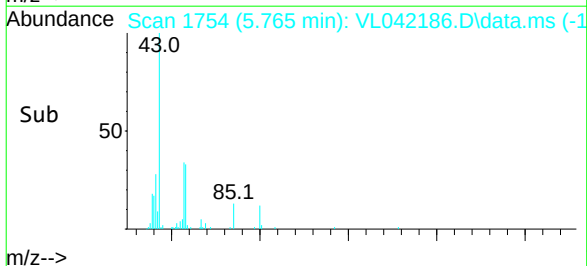
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

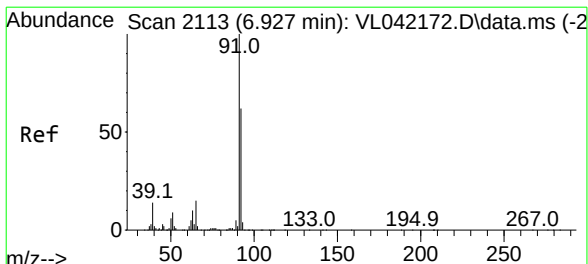


#50  
4-Methyl-2-Pentanone  
Concen: 0.427 ppbv  
RT: 5.765 min Scan# 1754  
Delta R.T. 0.019 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59



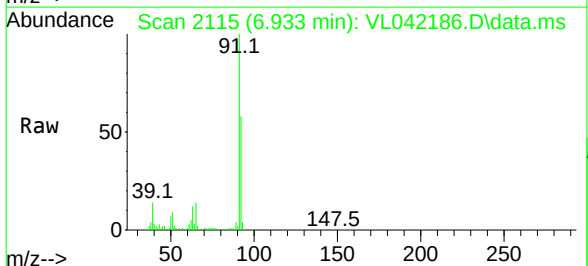
Tgt Ion: 43 Resp: 26447  
Ion Ratio Lower Upper  
43 100  
58 35.4 29.0 43.6





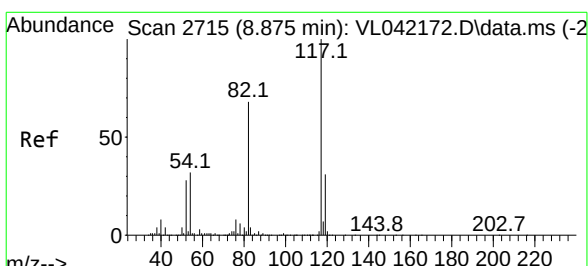
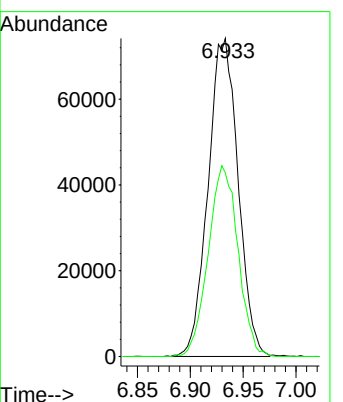
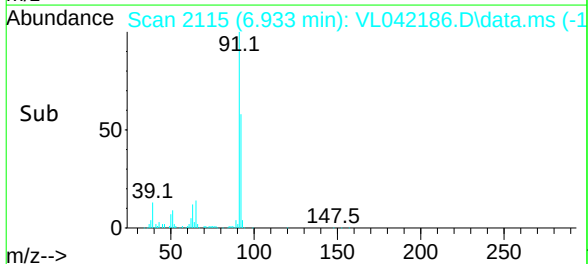
#53  
Toluene  
Concen: 2.312 ppbv  
RT: 6.933 min Scan# 2115  
Delta R.T. 0.006 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Instrument : MSVOA\_L  
ClientSampleId : IA-B9-2-3262025

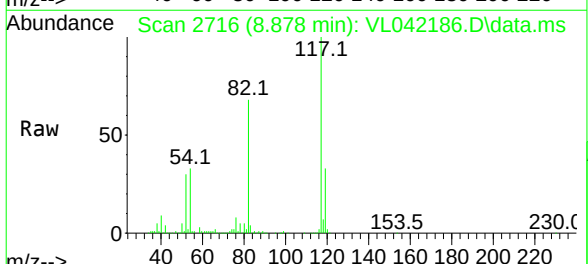


|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 146301 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 59.5  | 48.4  | 72.6   |

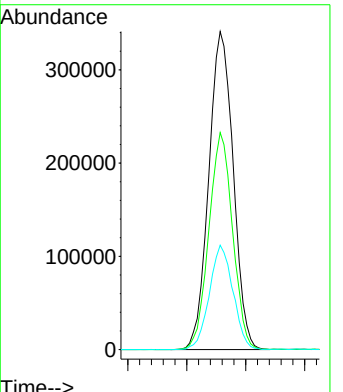
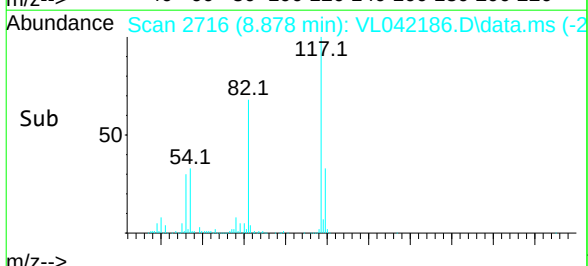
Manual Integrations  
**APPROVED**  
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

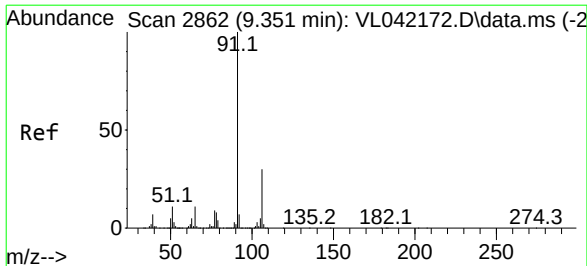


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 2716  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 491411 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 66.3  | 55.8  | 83.6   |
| 119      | 31.8  | 25.5  | 38.3   |





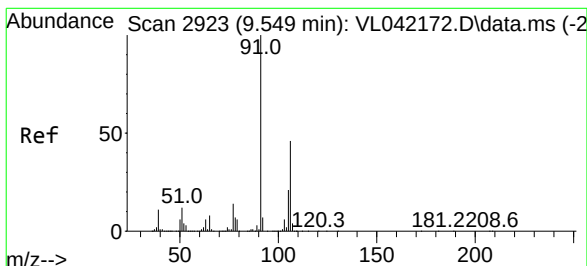
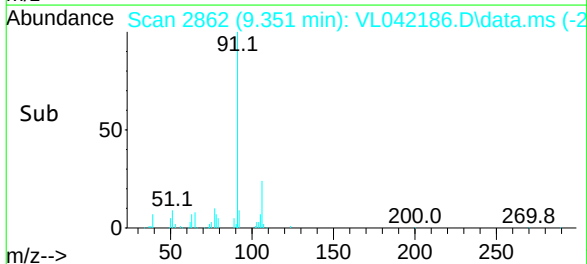
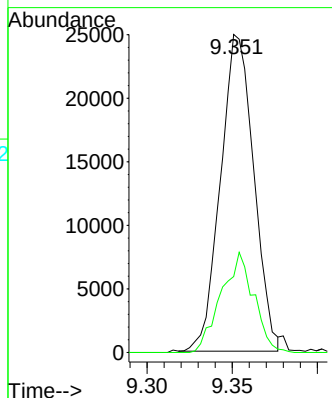
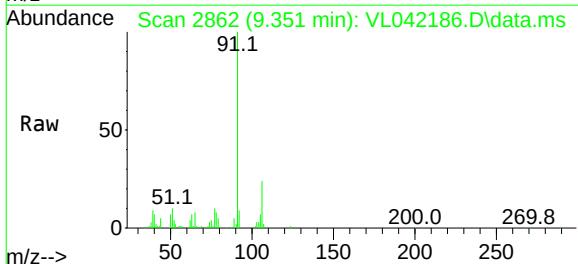
#58  
Ethyl Benzene  
Concen: 0.388 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Instrument : MSVOA\_L  
Client Sample Id : IA-B9-2-3262025

Tgt Ion: 91 Resp: 33902  
Ion Ratio Lower Upper  
91 100  
106 24.0 24.2 36.2

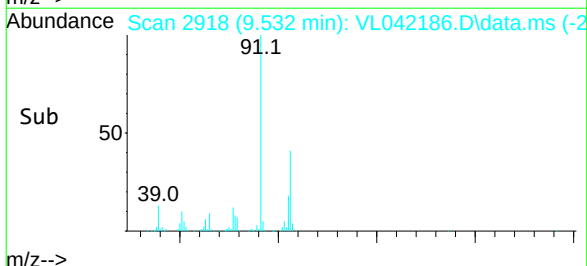
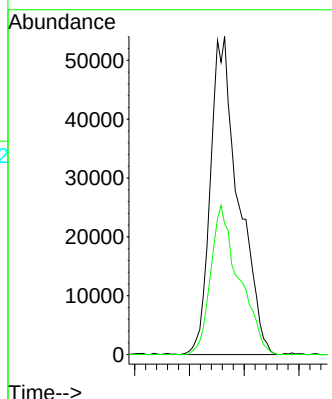
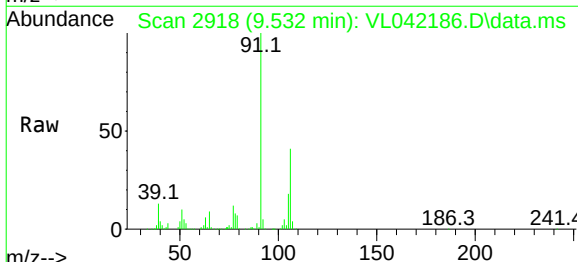
Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

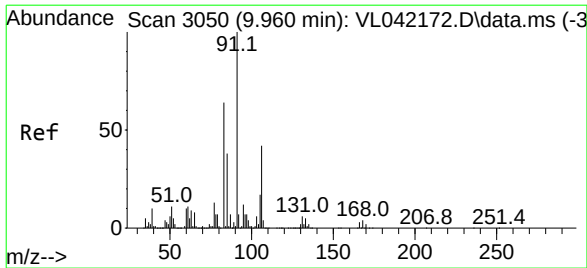


#59  
m/p-Xylene  
Concen: 1.387 ppbv  
RT: 9.532 min Scan# 2918  
Delta R.T. -0.016 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 91 Resp: 96658  
Ion Ratio Lower Upper  
91 100  
106 47.3 36.4 54.6







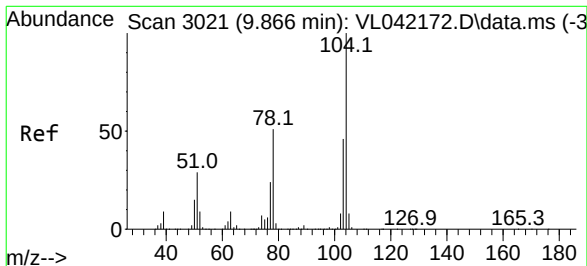
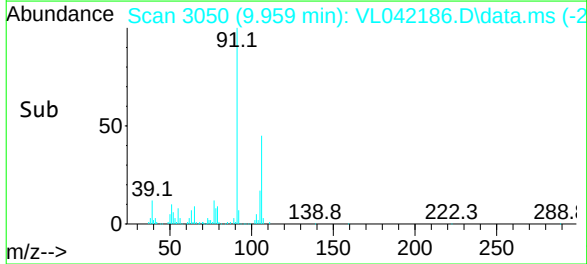
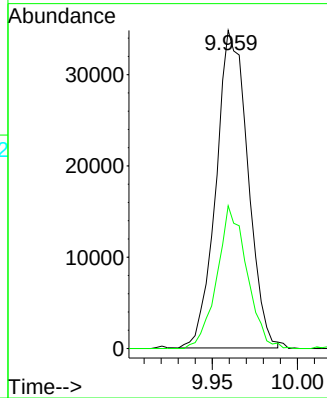
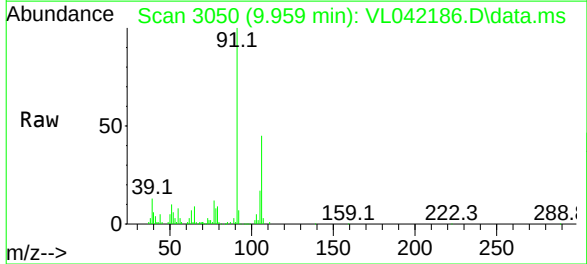
#60  
o-Xylene  
Concen: 0.647 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

Tgt Ion: 91 Resp: 45203  
Ion Ratio Lower Upper  
91 100  
106 42.1 20.8 62.5

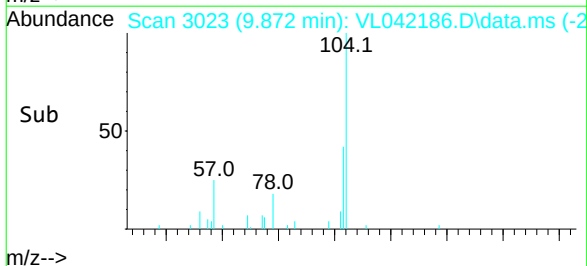
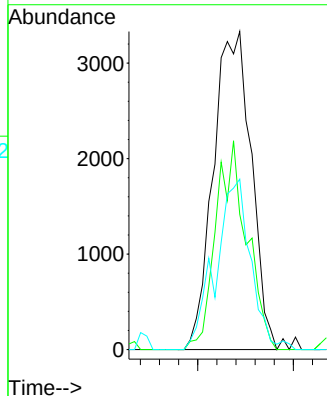
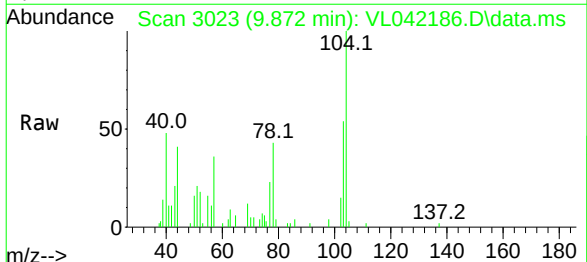
Manual Integrations  
APPROVED

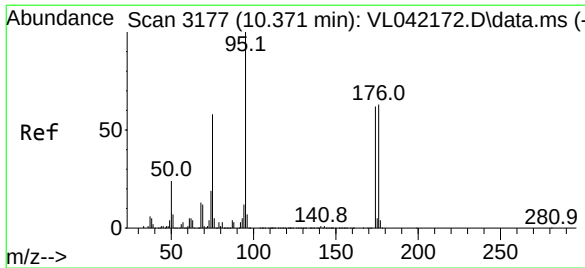
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#61  
Styrene  
Concen: 0.132 ppbv m  
RT: 9.872 min Scan# 3023  
Delta R.T. 0.006 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

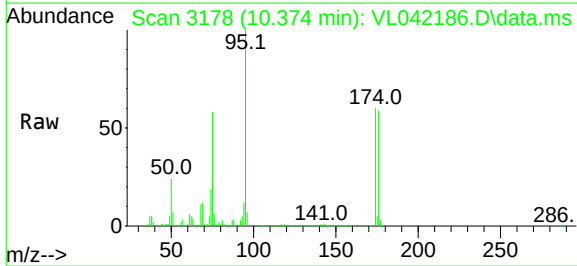
Tgt Ion:104 Resp: 4574  
Ion Ratio Lower Upper  
104 100  
78 53.8 41.8 62.6  
103 49.7 37.0 55.4





#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.915 ppbv  
RT: 10.374 min Scan# 3177  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

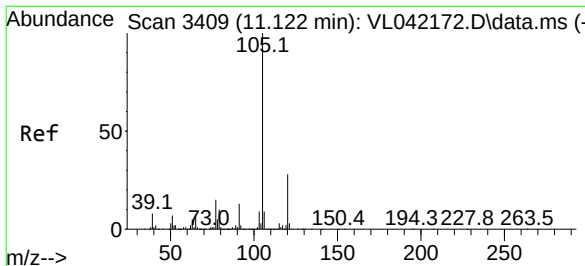
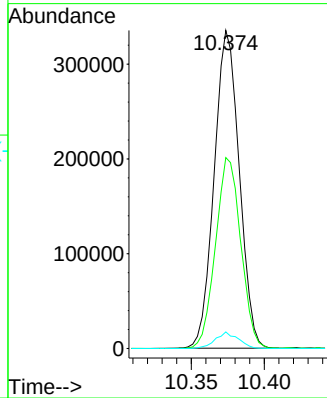
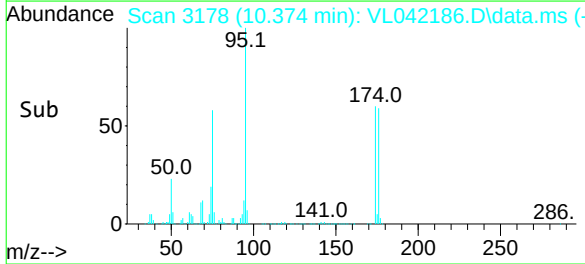
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025



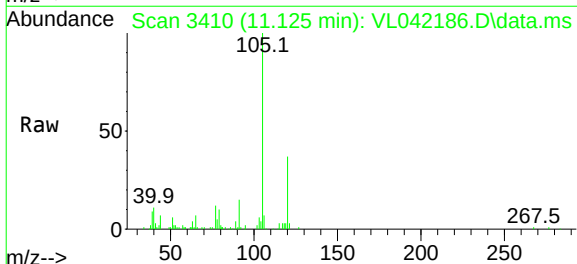
Tgt Ion: 95 Resp: 400118  
Ion Ratio Lower Upper  
95 100  
174 60.8 50.6 76.0  
175 4.7 3.8 5.6

Manual Integrations  
APPROVED

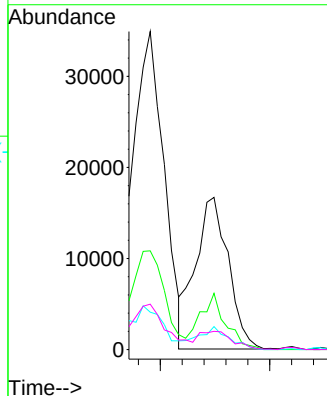
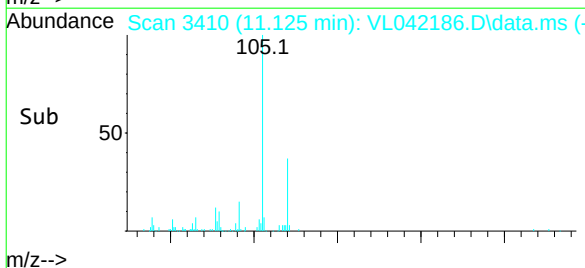
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

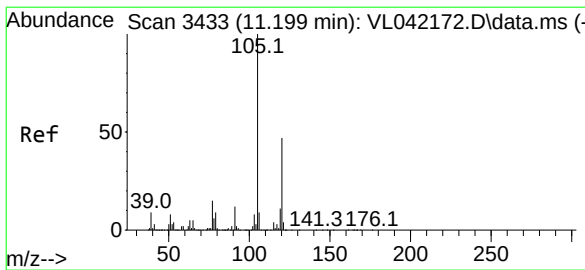


#72  
4-Ethyltoluene  
Concen: 0.201 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59



Tgt Ion:105 Resp: 17501  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.4 35.0#  
91 0.0 10.3 15.5#  
77 0.0 11.4 17.2#





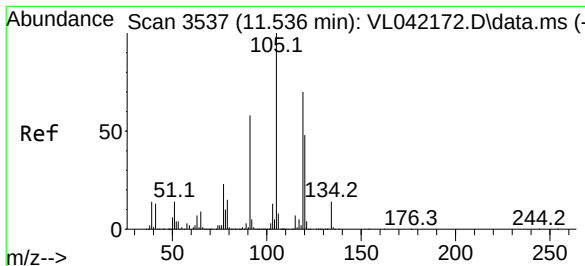
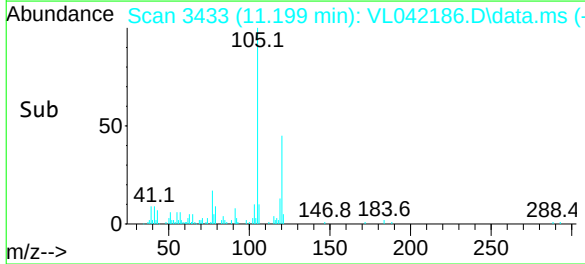
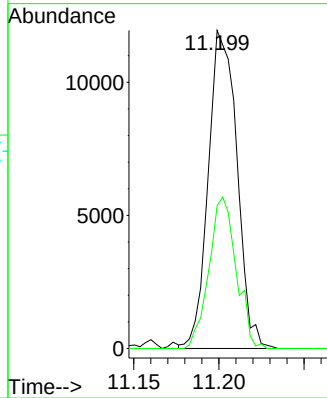
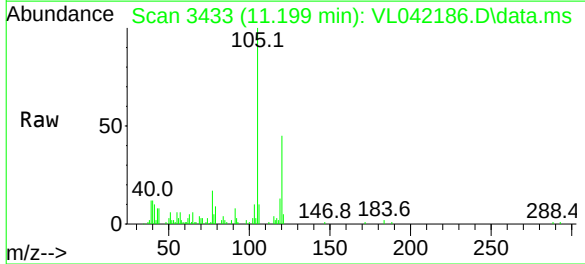
#73  
1,3,5-Trimethylbenzene  
Concen: 0.184 ppbv  
RT: 11.199 min Scan# 3433  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Instrument : MSVOA\_L  
ClientSampleId : IA-B9-2-3262025

Tgt Ion:105 Resp: 13983  
Ion Ratio Lower Upper  
105 100  
120 44.9 37.4 56.0

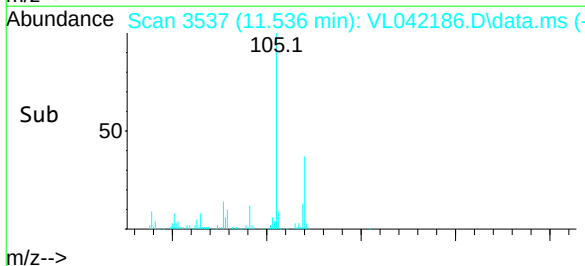
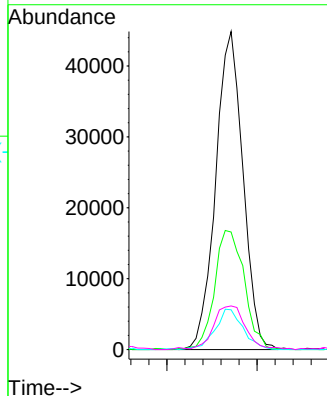
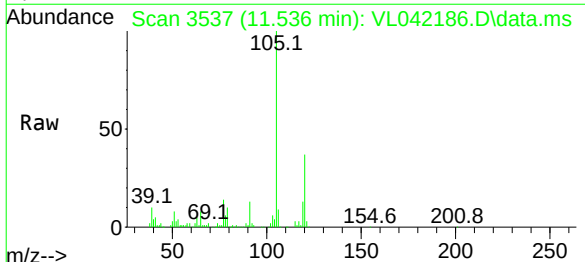
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#74  
1,2,4-Trimethylbenzene  
Concen: 0.539 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion:105 Resp: 47154  
Ion Ratio Lower Upper  
105 100  
120 36.7 38.6 58.0#  
91 12.5 46.2 69.2#  
77 13.1 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042186.D  
Acq On : 27 Mar 2025 18:59  
Operator : SY/MD  
Sample : Q1669-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

Signal : TIC: VL042186.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.428       | 409           | 414         | 420          | rBV      | 4303548        | 4795170       | 100.00%         | 32.841%       |
| 2         | 1.486       | 429           | 432         | 434          | rBV2     | 307202         | 123557        | 2.58%           | 0.846%        |
| 3         | 1.557       | 449           | 454         | 458          | rBV      | 100250         | 52111         | 1.09%           | 0.357%        |
| 4         | 1.619       | 469           | 473         | 478          | rVB      | 142346         | 76014         | 1.59%           | 0.521%        |
| 5         | 1.719       | 500           | 504         | 511          | rBV      | 161929         | 101287        | 2.11%           | 0.694%        |
| 6         | 1.842       | 536           | 542         | 547          | rBV2     | 197334         | 173957        | 3.63%           | 1.191%        |
| 7         | 1.962       | 574           | 579         | 584          | rVB      | 183111         | 122346        | 2.55%           | 0.838%        |
| 8         | 2.473       | 730           | 737         | 744          | rVB      | 214024         | 224166        | 4.67%           | 1.535%        |
| 9         | 2.622       | 777           | 783         | 792          | rVB3     | 108383         | 115880        | 2.42%           | 0.794%        |
| 10        | 2.787       | 825           | 834         | 840          | rBV      | 694264         | 726146        | 15.14%          | 4.973%        |
| 11        | 2.823       | 840           | 845         | 857          | rVB      | 240227         | 281126        | 5.86%           | 1.925%        |
| 12        | 3.227       | 962           | 970         | 978          | rBV2     | 53402          | 73831         | 1.54%           | 0.506%        |
| 13        | 3.654       | 1088          | 1102        | 1110         | rBV3     | 58471          | 97116         | 2.03%           | 0.665%        |
| 14        | 3.955       | 1182          | 1195        | 1208         | rBV      | 904630         | 1423209       | 29.68%          | 9.747%        |
| 15        | 4.049       | 1213          | 1224        | 1233         | rVV2     | 50557          | 102997        | 2.15%           | 0.705%        |
| 16        | 4.266       | 1278          | 1291        | 1303         | rBV6     | 63418          | 121901        | 2.54%           | 0.835%        |
| 17        | 4.635       | 1398          | 1405        | 1422         | rVB4     | 37530          | 79988         | 1.67%           | 0.548%        |
| 18        | 4.978       | 1499          | 1511        | 1524         | rBV6     | 32059          | 65972         | 1.38%           | 0.452%        |
| 19        | 5.661       | 1704          | 1722        | 1725         | rBV7     | 31939          | 63305         | 1.32%           | 0.434%        |
| 20        | 5.765       | 1743          | 1754        | 1766         | rBV6     | 30726          | 80946         | 1.69%           | 0.554%        |
| 21        | 6.930       | 2098          | 2114        | 2131         | rBV2     | 201761         | 429024        | 8.95%           | 2.938%        |
| 22        | 7.600       | 2308          | 2321        | 2335         | rBV2     | 22312          | 65864         | 1.37%           | 0.451%        |
| 23        | 7.687       | 2339          | 2348        | 2360         | rVB5     | 52904          | 94806         | 1.98%           | 0.649%        |
| 24        | 8.302       | 2530          | 2538        | 2551         | rVB8     | 27131          | 56654         | 1.18%           | 0.388%        |
| 25        | 8.878       | 2700          | 2716        | 2727         | rBV      | 1212253        | 1755500       | 36.61%          | 12.023%       |
| 26        | 9.147       | 2791          | 2799        | 2812         | rVB      | 72154          | 100197        | 2.09%           | 0.686%        |
| 27        | 9.354       | 2851          | 2863        | 2868         | rBV2     | 63796          | 94942         | 1.98%           | 0.650%        |
| 28        | 9.390       | 2868          | 2874        | 2889         | rVB      | 119934         | 174086        | 3.63%           | 1.192%        |
| 29        | 9.529       | 2907          | 2917        | 2934         | rVB3     | 155116         | 302259        | 6.30%           | 2.070%        |
| 30        | 9.632       | 2939          | 2949        | 2965         | rVB3     | 45857          | 71160         | 1.48%           | 0.487%        |
| 31        | 9.959       | 3036          | 3050        | 3064         | rBV3     | 107163         | 193494        | 4.04%           | 1.325%        |
| 32        | 10.374      | 3162          | 3178        | 3188         | rBV      | 1562482        | 1931984       | 40.29%          | 13.232%       |
| 33        | 11.095      | 3393          | 3401        | 3406         | rBV      | 92871          | 106168        | 2.21%           | 0.727%        |
| 34        | 11.202      | 3427          | 3434        | 3443         | rVB3     | 41074          | 48833         | 1.02%           | 0.334%        |
| 35        | 11.374      | 3480          | 3487        | 3493         | rBV2     | 50694          | 49876         | 1.04%           | 0.342%        |
| 36        | 11.536      | 3528          | 3537        | 3549         | rVB      | 131084         | 157166        | 3.28%           | 1.076%        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042186.D  
Acq On : 27 Mar 2025 18:59  
Operator : SY/MD  
Sample : Q1669-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

Integration Parameters: RTEINT.P  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 3 Min Area: 3 % of largest Peak  
Start Thrs: 0.001 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 0

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

37 12.225 3745 3750 3757 rVB2 65690 68220 1.42% 0.467%

Sum of corrected areas: 14601258

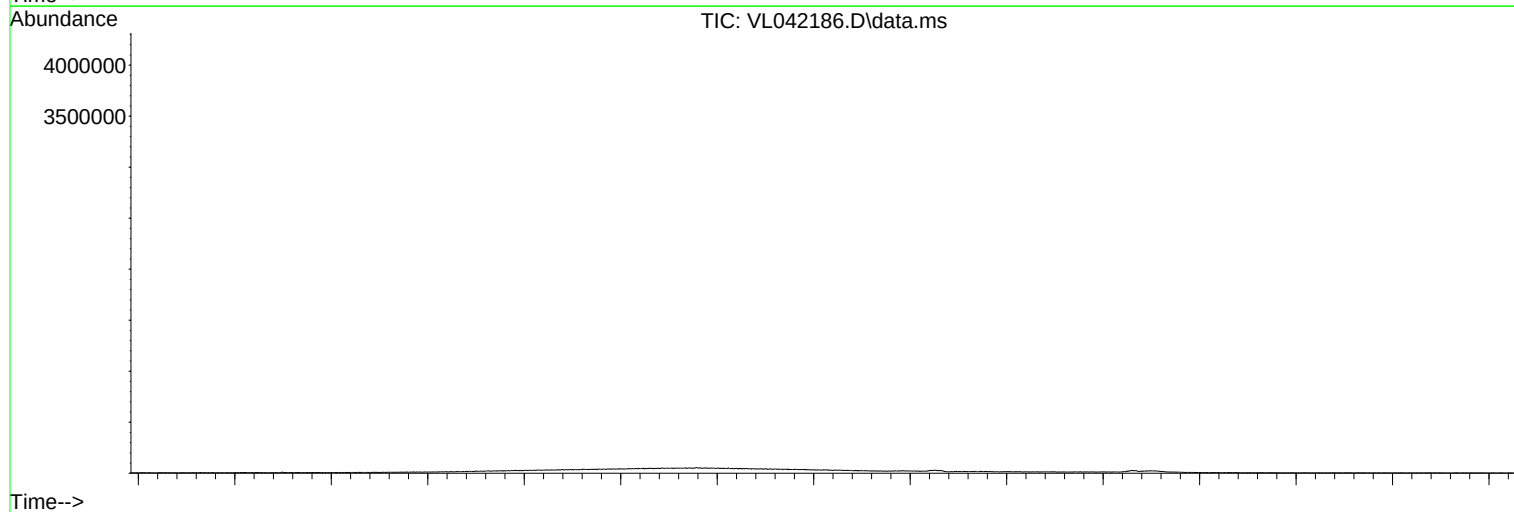
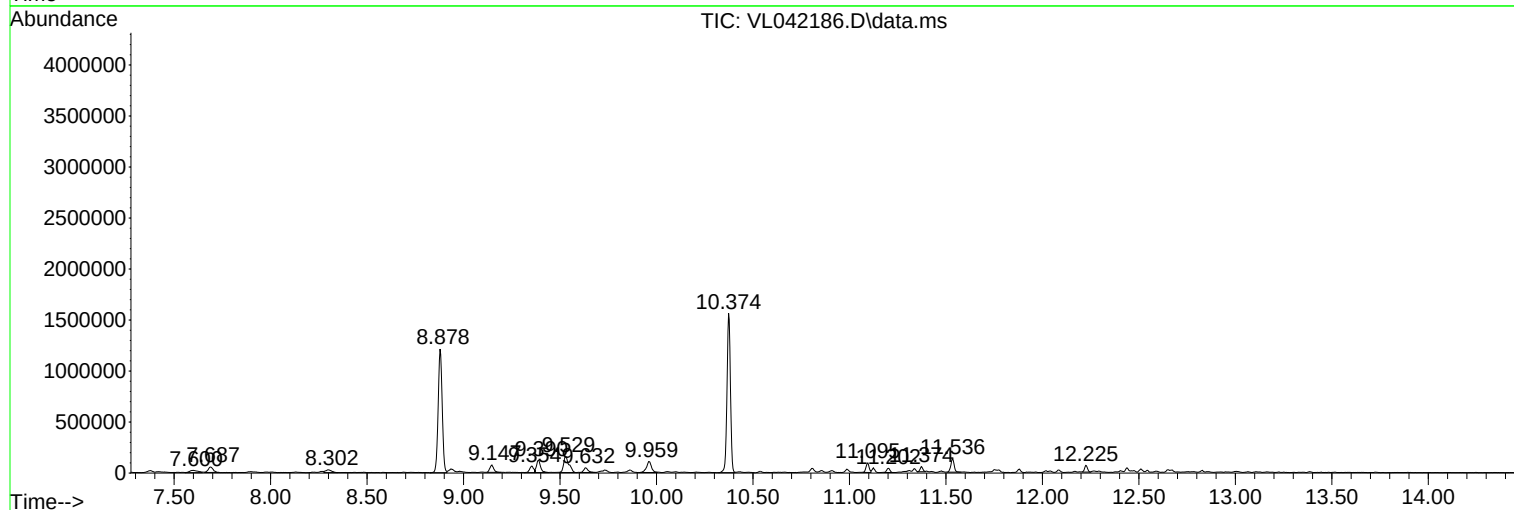
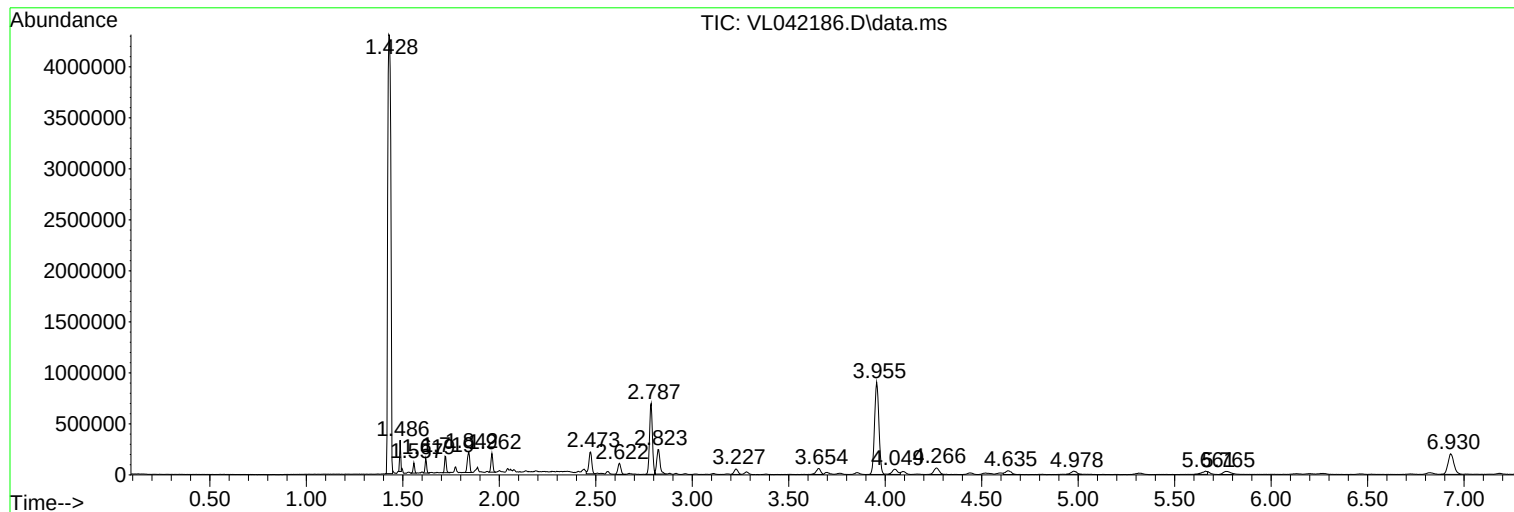
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Acq On : 27 Mar 2025 18:59  
Operator : SY/MD  
Sample : Q1669-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

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

TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042186.D  
Acq On : 27 Mar 2025 18:59  
Operator : SY/MD  
Sample : Q1669-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

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

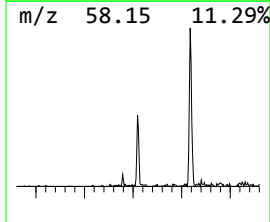
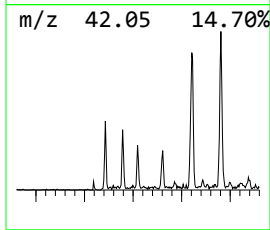
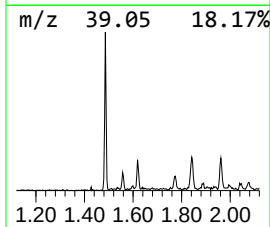
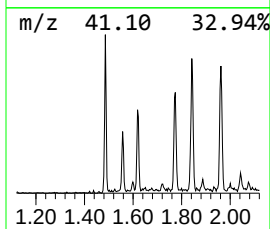
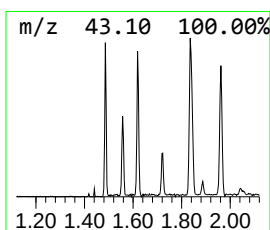
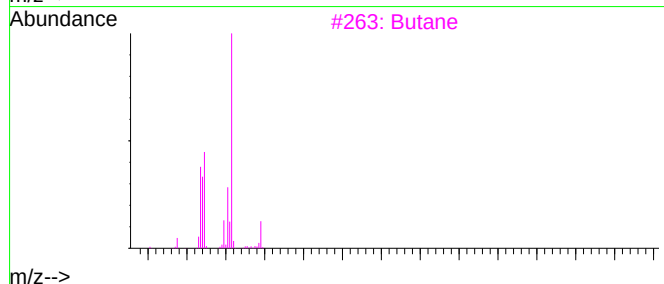
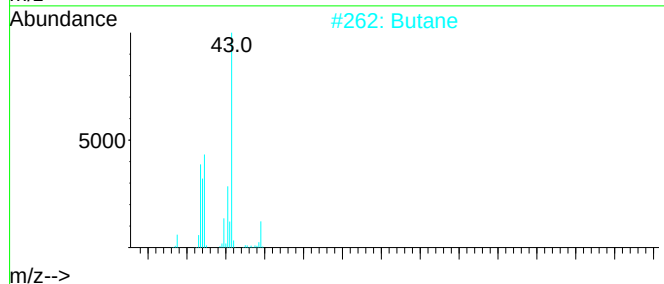
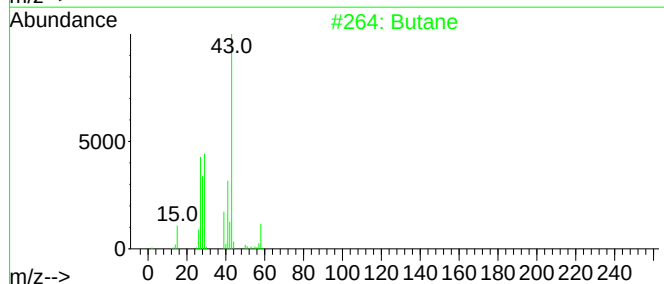
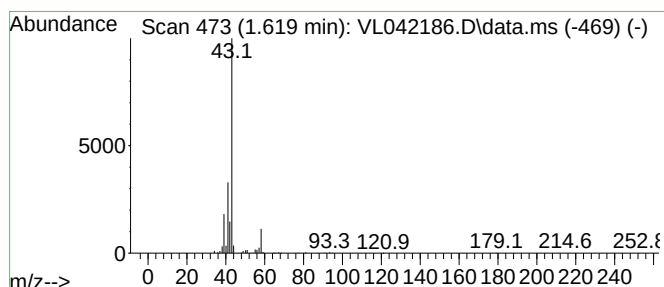
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TIC Integration Parameters: LSCINT.P

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Peak Number 1 Butane Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD   | R.T.  |
|-------|-----------|-------|--------------------|-------|
| 1.619 | 1.05 ppbv | 76014 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|-----------|-------------------------------------|-----|-----------|-------------|------|
| 1         | Butane                              | 58  | C4H10     | 000106-97-8 | 72   |
| 2         | Butane                              | 58  | C4H10     | 000106-97-8 | 72   |
| 3         | Butane                              | 58  | C4H10     | 000106-97-8 | 64   |
| 4         | Butane                              | 58  | C4H10     | 000106-97-8 | 9    |
| 5         | Formic acid, chloro-, (3,4,4-tri... | 194 | C7H11ClO4 | 107323-92-2 | 9    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042186.D  
Acq On : 27 Mar 2025 18:59  
Operator : SY/MD  
Sample : Q1669-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022

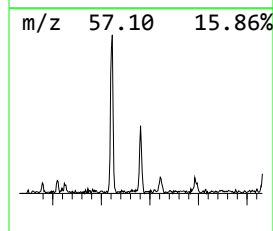
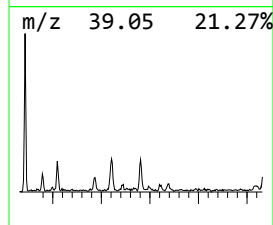
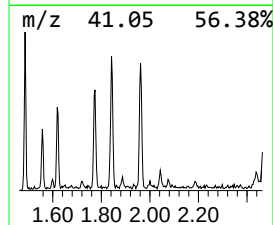
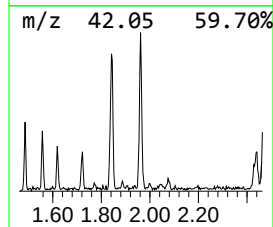
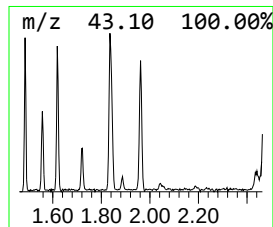
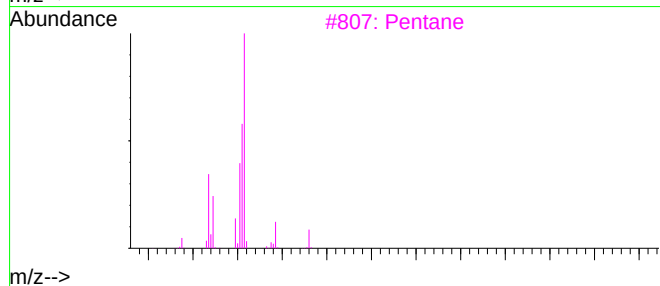
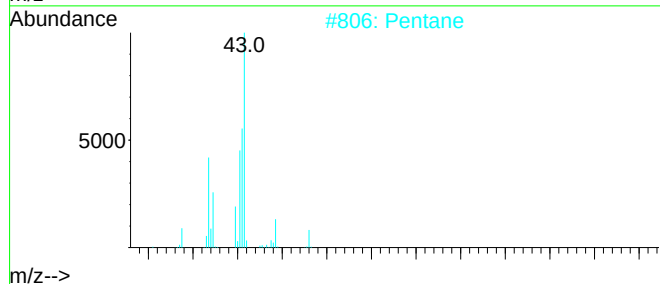
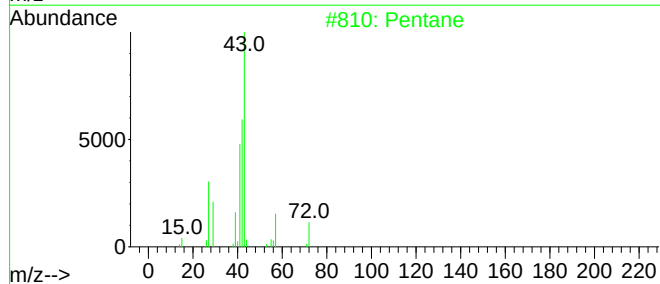
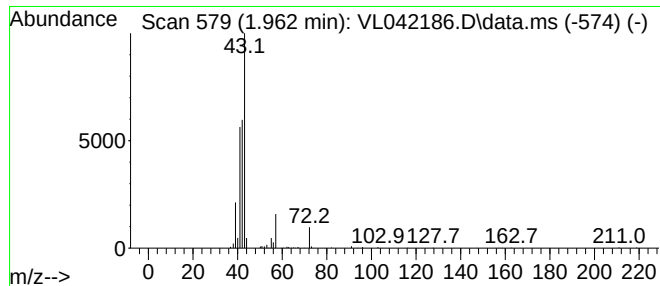
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Pentane Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 1.962 | 1.68 ppbv | 122346 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|-----------|--------------|----|---------|-------------|------|
| 1         | Pentane      | 72 | C5H12   | 000109-66-0 | 86   |
| 2         | Pentane      | 72 | C5H12   | 000109-66-0 | 86   |
| 3         | Pentane      | 72 | C5H12   | 000109-66-0 | 80   |
| 4         | Pentane      | 72 | C5H12   | 000109-66-0 | 72   |
| 5         | Pentane      | 72 | C5H12   | 000109-66-0 | 72   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042186.D  
Acq On : 27 Mar 2025 18:59  
Operator : SY/MD  
Sample : Q1669-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

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

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

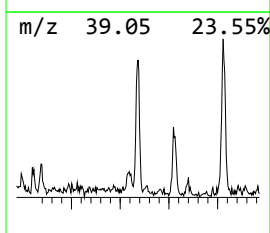
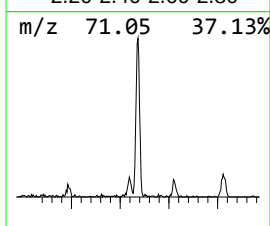
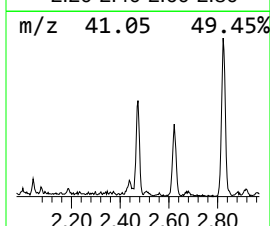
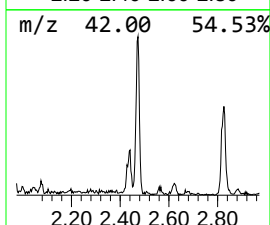
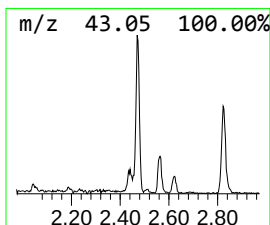
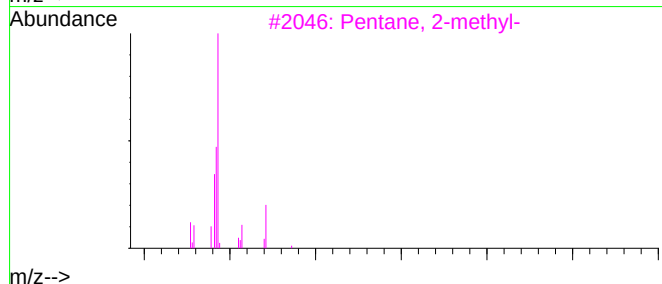
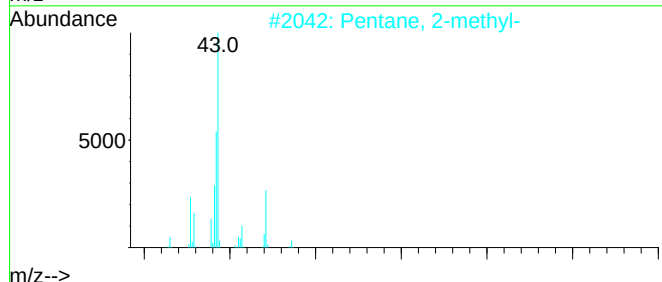
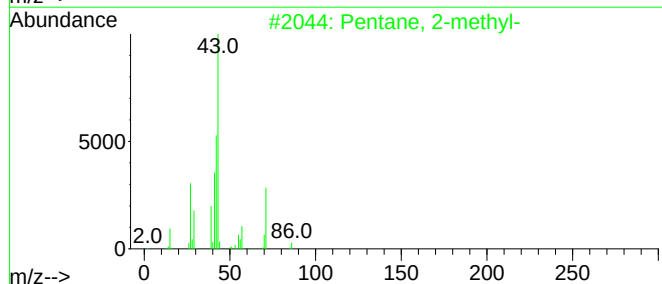
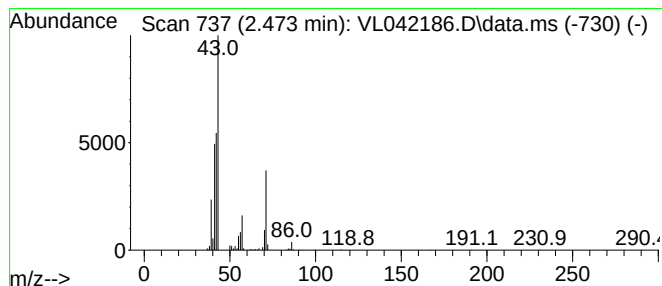
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Peak Number 3 Pentane, 2-methyl- Concentration Rank 1

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.473 | 3.09 ppbv | 224166 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID       | MW | MolForm | CAS#        | Qual |
|-----------|--------------------|----|---------|-------------|------|
| 1         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 90   |
| 2         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 90   |
| 3         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 83   |
| 4         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 83   |
| 5         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 78   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042186.D  
Acq On : 27 Mar 2025 18:59  
Operator : SY/MD  
Sample : Q1669-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

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

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

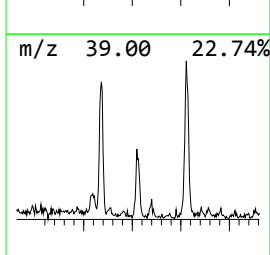
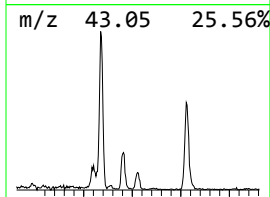
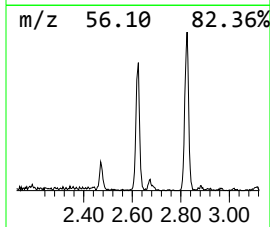
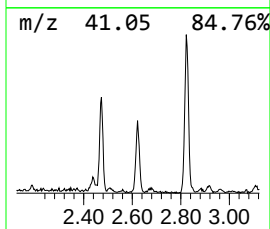
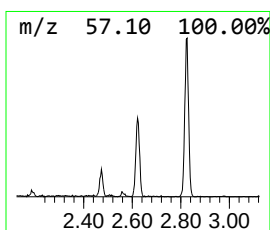
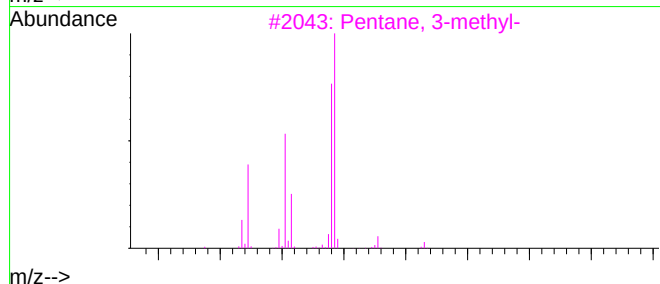
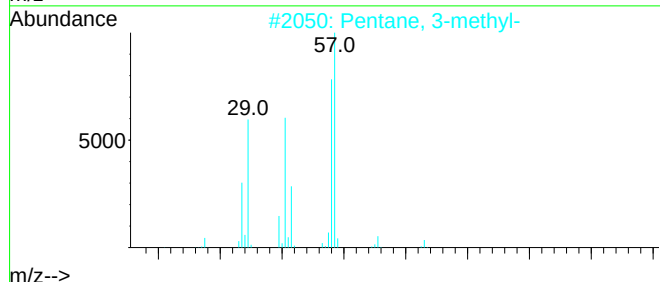
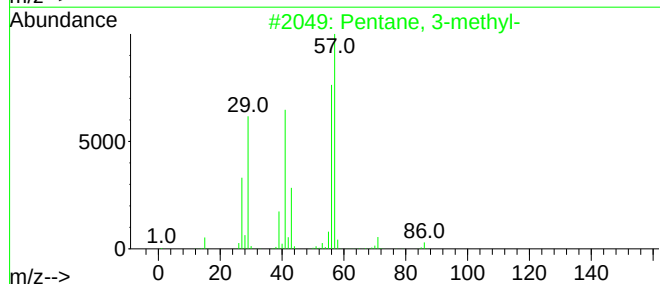
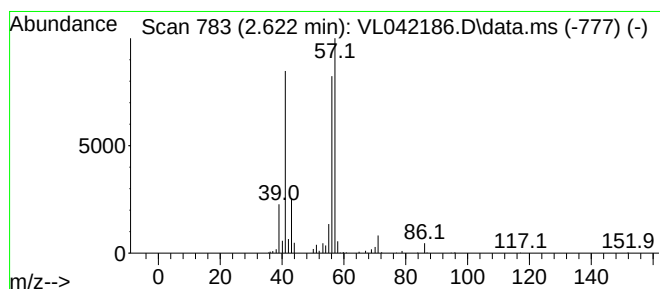
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Peak Number 4 Pentane, 3-methyl- Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.622 | 1.60 ppbv | 115880 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|-----------|--------------------------|-----|---------|-------------|------|
| 1         | Pentane, 3-methyl-       | 86  | C6H14   | 000096-14-0 | 86   |
| 2         | Pentane, 3-methyl-       | 86  | C6H14   | 000096-14-0 | 72   |
| 3         | Pentane, 3-methyl-       | 86  | C6H14   | 000096-14-0 | 72   |
| 4         | Heptane, 2,2-dimethyl-   | 128 | C9H20   | 001071-26-7 | 56   |
| 5         | Decane, 2,2,3-trimethyl- | 184 | C13H28  | 062338-09-4 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042186.D  
Acq On : 27 Mar 2025 18:59  
Operator : SY/MD  
Sample : Q1669-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022

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

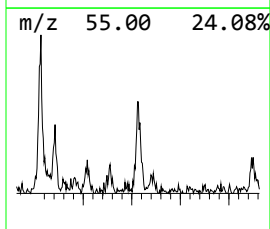
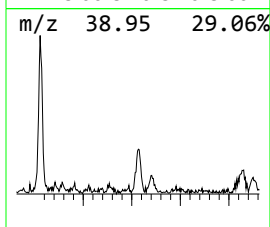
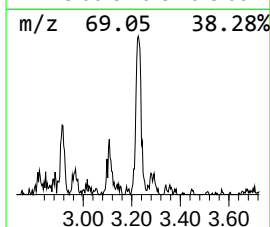
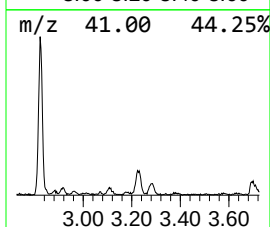
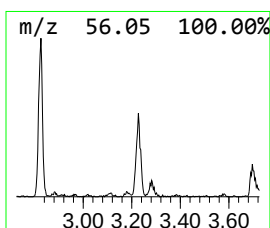
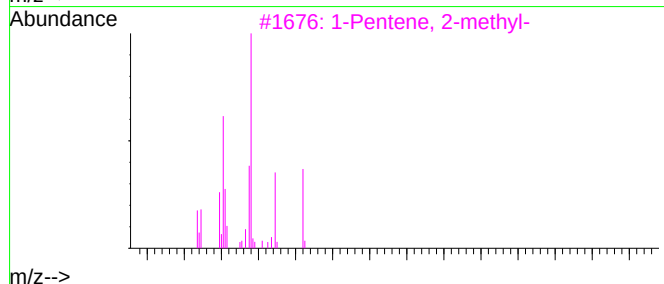
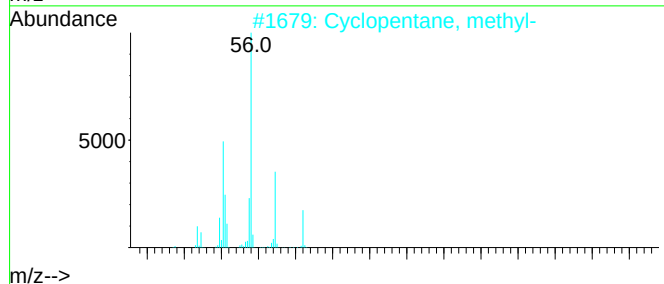
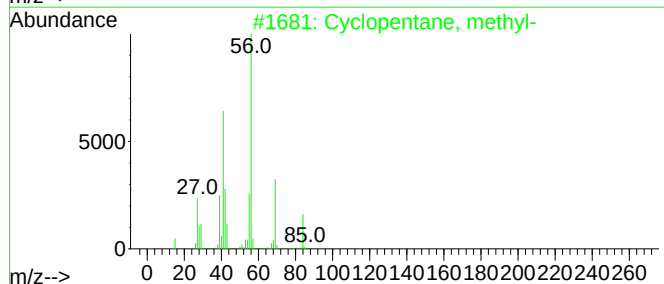
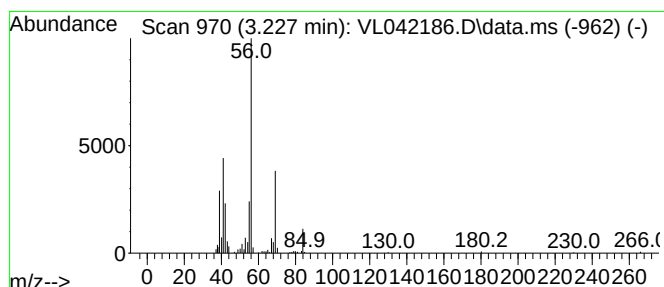
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Peak Number 5 Cyclopentane, methyl- Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD   | R.T.  |
|-------|-----------|-------|--------------------|-------|
| 3.227 | 1.02 ppbv | 73831 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID            | MW | MolForm | CAS#        | Qual |
|-----------|-------------------------|----|---------|-------------|------|
| 1         | Cyclopentane, methyl-   | 84 | C6H12   | 000096-37-7 | 86   |
| 2         | Cyclopentane, methyl-   | 84 | C6H12   | 000096-37-7 | 78   |
| 3         | 1-Pentene, 2-methyl-    | 84 | C6H12   | 000763-29-1 | 72   |
| 4         | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4  | 004076-36-2 | 64   |
| 5         | Cyclohexane             | 84 | C6H12   | 000110-82-7 | 56   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042186.D  
Acq On : 27 Mar 2025 18:59  
Operator : SY/MD  
Sample : Q1669-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

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

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

| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|--------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                    |       |         |       |          | #                     | RT    | Resp   | Conc |
| Butane             | 1.619 | 1.1     | ppbv  | 76014    | 1                     | 2.784 | 726146 | 10.0 |
| Pentane            | 1.962 | 1.7     | ppbv  | 122346   | 1                     | 2.784 | 726146 | 10.0 |
| Pentane, 2-methyl- | 2.473 | 3.1     | ppbv  | 224166   | 1                     | 2.784 | 726146 | 10.0 |
| Pentane, 3-methyl- | 2.622 | 1.6     | ppbv  | 115880   | 1                     | 2.784 | 726146 | 10.0 |
| Cyclopentane, m... | 3.227 | 1.0     | ppbv  | 73831    | 1                     | 2.784 | 726146 | 10.0 |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | IA-B9-1-3262025                                 | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-03                                        | 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 |
| VL042187.D        | 1         |           | 03/27/25 19:36 | VL032725      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.38          | 1.88           | J         | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.25          | 0.52           | 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             | 0.42          | 1.27           | J         | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 0.51          | 2.09           |           | 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                        | 3.20          | 7.60           |           | 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             | 0.81          | 2.81           |           | 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                    | 0.28          | 0.96           | J         | 0.76  | 1.72       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 0.54          | 1.59           |           | 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         | 0.31          | 1.45           | J         | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 0.75          | 2.40           |           | 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           | 0.86          | 3.52           |           | 0.37  | 2.05       | ug/m3 |
| 108-88-3       | Toluene                        | 2.60          | 9.80           |           | 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:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | IA-B9-1-3262025                                 | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-03                                        | 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 |
| VL042187.D        | 1         |           | 03/27/25 19:36 | VL032725      |

| 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             | 0.38          | 1.65           | J         | 0.52  | 2.17       | ug/m3 |
| 179601-23-1 | m/p-Xylene                | 1.40          | 6.08           |           | 0.91  | 4.34       | ug/m3 |
| 95-47-6     | o-Xylene                  | 0.57          | 2.48           |           | 0.52  | 2.17       | ug/m3 |
| 100-42-5    | Styrene                   | 2.50          | 10.6           |           | 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    | 0.14          | 0.69           | J         | 0.54  | 2.46       | ug/m3 |
| 95-63-6     | 1,2,4-Trimethylbenzene    | 0.42          | 2.06           | 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            | 0.13          | 0.64           | J         | 0.59  | 2.46       | ug/m3 |
| 110-54-3    | Hexane                    | 2.20          | 7.75           |           | 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 |

### SURROGATES

|          |                         |      |  |                     |     |         |
|----------|-------------------------|------|--|---------------------|-----|---------|
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.80 |  | 70 (65) - 130 (135) | 98% | SPK: 10 |
|----------|-------------------------|------|--|---------------------|-----|---------|

### INTERNAL STANDARDS

|           |                     |        |       |
|-----------|---------------------|--------|-------|
| 74-97-5   | Bromochloromethane  | 185000 | 2.784 |
| 540-36-3  | 1,4-Difluorobenzene | 524000 | 3.955 |
| 3114-55-4 | Chlorobenzene-d5    | 484000 | 8.878 |

### TENTATIVE IDENTIFIED COMPOUNDS

|             |                       |      |   |      |      |
|-------------|-----------------------|------|---|------|------|
| 75-45-6     | Chlorodifluoromethane | 0.35 | J | 1.47 | ppbv |
| 115-07-1    | Propene               | 0.62 | J | 1.49 | ppbv |
| 000106-97-8 | Butane                | 1.10 | J | 1.62 | ppbv |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | IA-B9-1-3262025                                 | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-03                                        | 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 |
| VL042187.D        | 1         |           | 03/27/25 19:36 | VL032725      |

| CAS Number  | Parameter             | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|-------------|-----------------------|---------------|----------------|-----------|-----|------------|-------|
| 000109-66-0 | Pentane               | 2.20          |                | J         |     | 1.96       | ppbv  |
| 000107-83-5 | Pentane, 2-methyl-    | 3.10          |                | J         |     | 2.47       | ppbv  |
| 000096-14-0 | Pentane, 3-methyl-    | 1.80          |                | J         |     | 2.62       | ppbv  |
| 000096-37-7 | Cyclopentane, methyl- | 1.40          |                | J         |     | 3.22       | ppbv  |
| 103-65-1    | n-propylbenzene       | 0.11          |                | J         |     | 11.0       | ppbv  |

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\VL032725\  
 Data File : VL042187.D  
 Acq On : 27 Mar 2025 19:36  
 Operator : SY/MD  
 Sample : Q1669-03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-1-3262025

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:16:07 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   | 185410   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.955 | 114  | 523694   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 484321   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 389805   | 9.801    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.000% |

Target Compounds

|                            |        |     |        |        |        | Qvalue |
|----------------------------|--------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 1.495  | 85  | 10428  | 0.381  | ppbv   | 96     |
| 3) Chlorodifluoromethane   | 1.473  | 51  | 9747   | 0.349  | ppbv   | 97     |
| 4) Chloromethane           | 1.528  | 50  | 2809   | 0.251  | ppbv # | 86     |
| 9) Propene                 | 1.486  | 41  | 7879   | 0.615  | ppbv   | 84     |
| 10) Heptane                | 4.981  | 43  | 17273m | 0.507  | ppbv   |        |
| 11) Trichlorofluoromethane | 1.877  | 101 | 5528   | 0.208  | ppbv   | 96     |
| 13) Ethanol                | 1.719  | 45  | 58391  | 48.187 | ppbv   | 80     |
| 15) Acetone                | 1.835  | 43  | 82901  | 3.197  | ppbv # | 82     |
| 17) tert-Butyl alcohol     | 2.042  | 59  | 13650  | 0.423  | ppbv   | 95     |
| 20) Methylene Chloride     | 2.059  | 84  | 7860   | 0.814  | ppbv # | 86     |
| 26) Hexane                 | 2.822  | 57  | 57580  | 2.215  | ppbv # | 34     |
| 30) Cyclohexane            | 3.849  | 84  | 6351m  | 0.281  | ppbv   |        |
| 34) 2-Butanone             | 2.560  | 43  | 20631  | 0.543  | ppbv   | 95     |
| 35) Carbon Tetrachloride   | 3.758  | 117 | 2812m  | 0.069  | ppbv   |        |
| 36) Benzene                | 3.651  | 78  | 38888  | 0.749  | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane | 4.641  | 57  | 27186m | 0.310  | ppbv   |        |
| 50) 4-Methyl-2-Pentanone   | 5.761  | 43  | 52014m | 0.864  | ppbv   |        |
| 53) Toluene                | 6.930  | 91  | 159613 | 2.593  | ppbv   | 99     |
| 58) Ethyl Benzene          | 9.351  | 91  | 32819  | 0.381  | ppbv   | 93     |
| 59) m/p-Xylene             | 9.529  | 91  | 96052  | 1.398  | ppbv   | 100    |
| 60) o-Xylene               | 9.959  | 91  | 38965  | 0.566  | ppbv   | 97     |
| 61) Styrene                | 9.869  | 104 | 86112  | 2.528  | ppbv   | 99     |
| 64) n-propylbenzene        | 10.992 | 120 | 2810m  | 0.106  | ppbv   |        |
| 72) 4-Ethyltoluene         | 11.124 | 105 | 10792  | 0.126  | ppbv # | 55     |
| 73) 1,3,5-Trimethylbenzene | 11.199 | 105 | 10875  | 0.145  | ppbv   | 92     |
| 74) 1,2,4-Trimethylbenzene | 11.536 | 105 | 35817  | 0.415  | ppbv # | 66     |

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



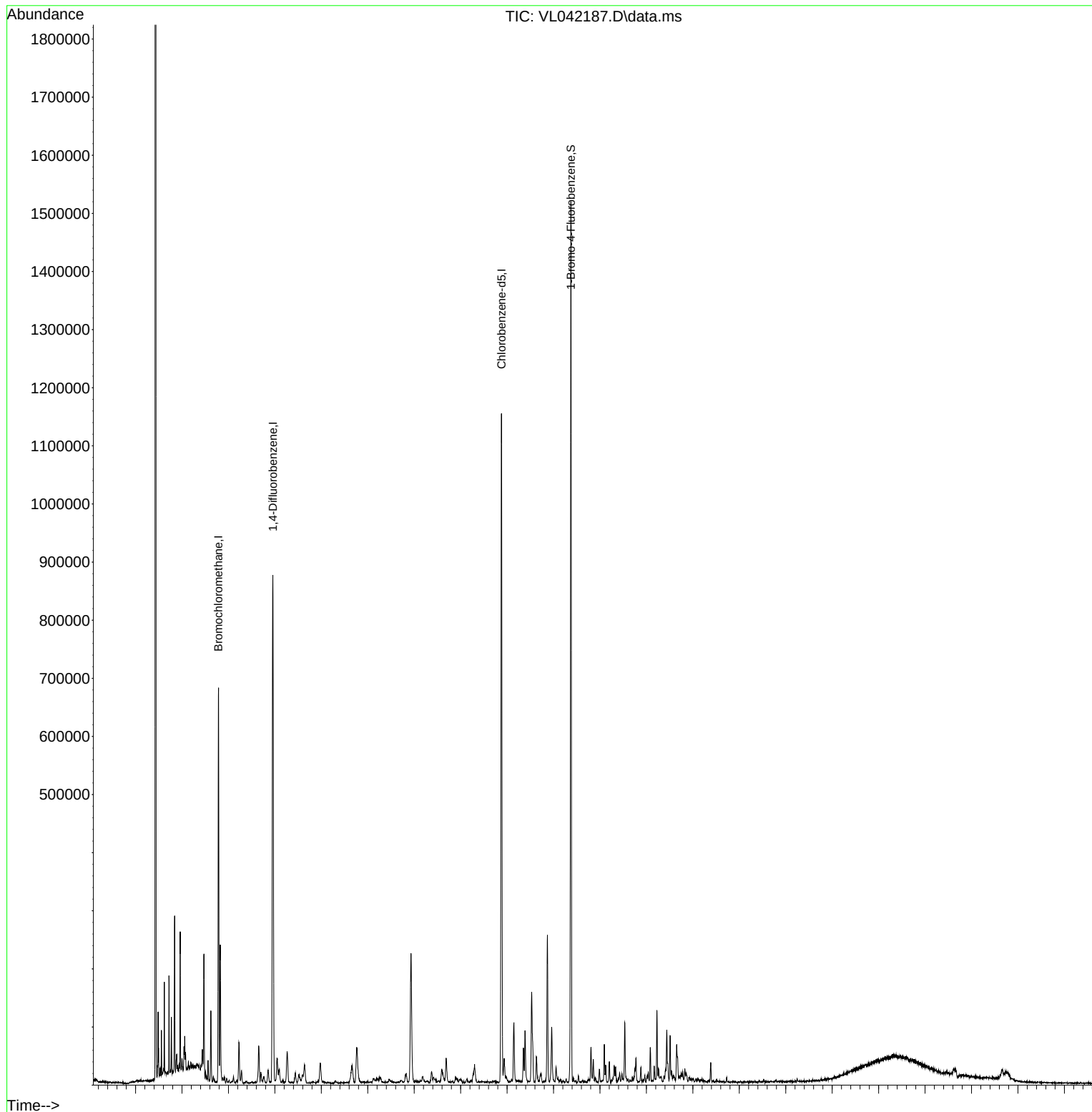
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Data File : VL042187.D  
Acq On : 27 Mar 2025 19:36  
Operator : SY/MD  
Sample : Q1669-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

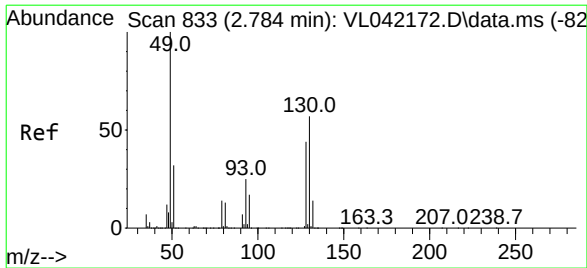
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

Quant Time: Mar 28 02:16:07 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 02:00:52 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025





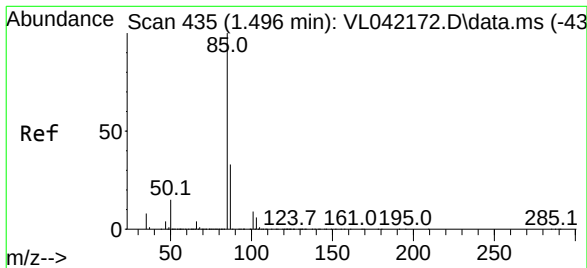
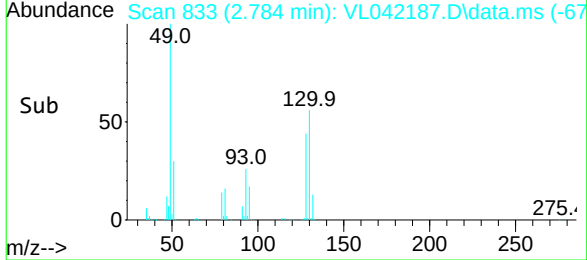
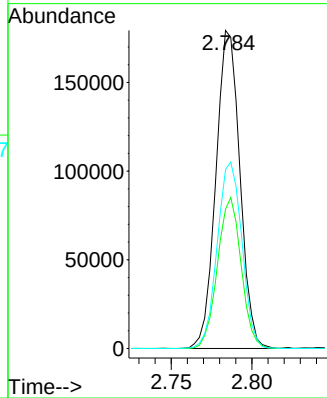
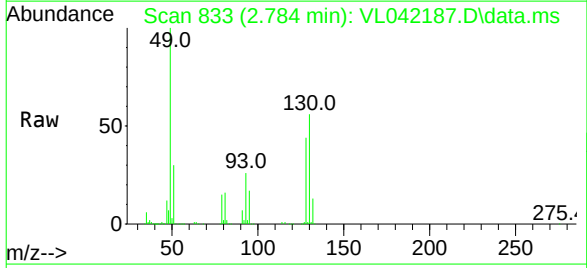
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 Concen: 10.000 ppbv  
 RT: 2.784 min Scan# 833  
 Delta R.T. -0.000 min  
 Lab File: VL042187.D  
 Acq: 27 Mar 2025 19:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-1-3262025

Tgt Ion: 49 Resp: 185410  
 Ion Ratio Lower Upper  
 49 100  
 128 46.8 22.9 68.5  
 130 60.2 28.8 86.4

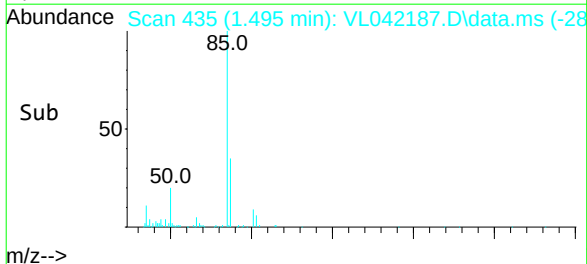
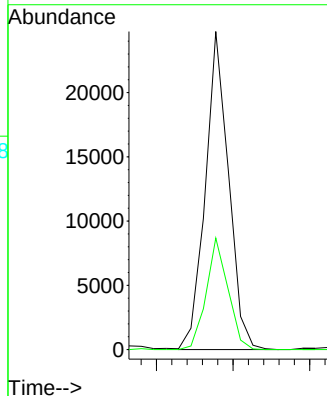
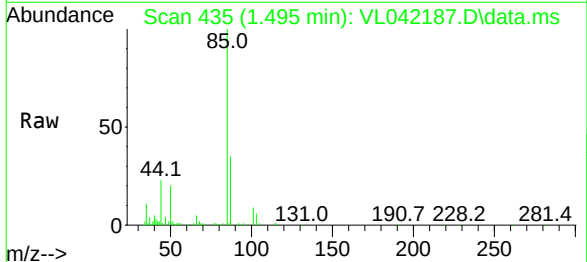
Manual Integrations  
 APPROVED

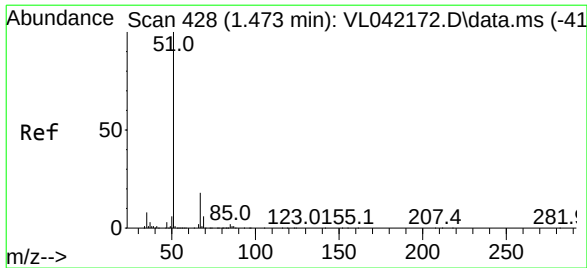
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#2  
 Dichlorodifluoromethane  
 Concen: 0.381 ppbv  
 RT: 1.495 min Scan# 435  
 Delta R.T. -0.000 min  
 Lab File: VL042187.D  
 Acq: 27 Mar 2025 19:36

Tgt Ion: 85 Resp: 10428  
 Ion Ratio Lower Upper  
 85 100  
 87 35.1 26.1 39.1





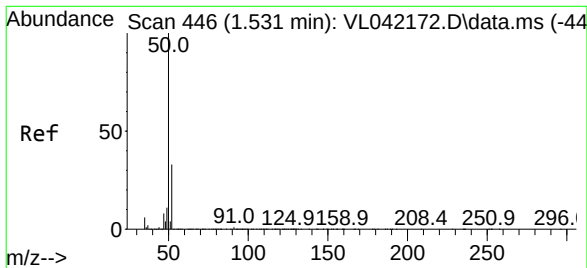
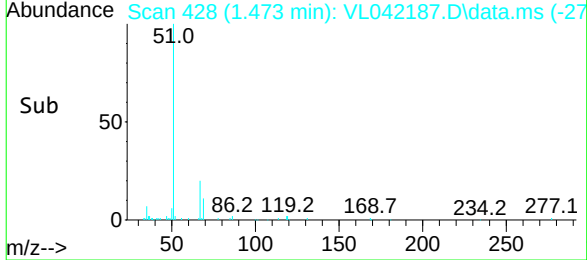
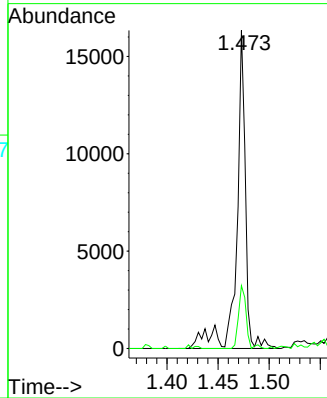
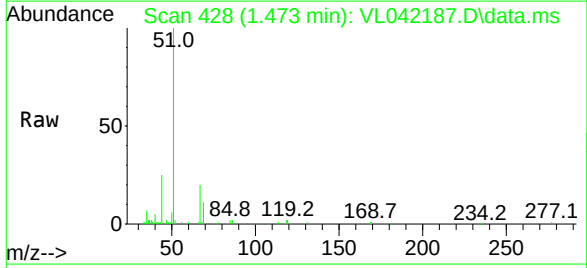
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Chlorodifluoromethane  
Concen: 0.349 ppbv  
RT: 1.473 min Scan# 42  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

Tgt Ion: 51 Resp: 9747  
Ion Ratio Lower Upper  
51 100  
67 17.4 15.0 22.6

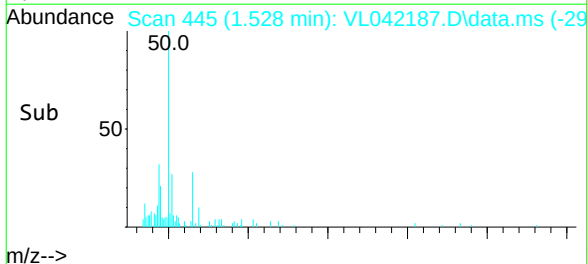
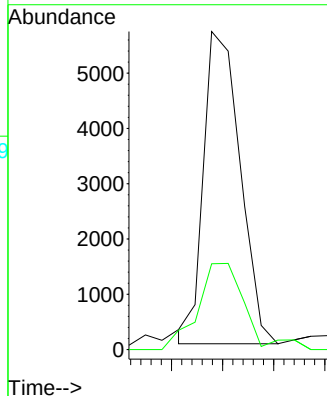
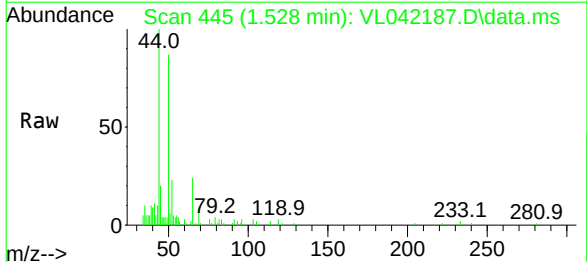
Manual Integrations  
APPROVED

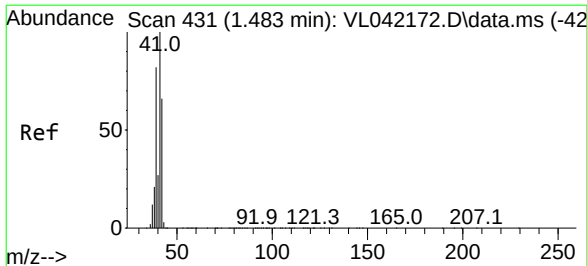
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#4  
Chloromethane  
Concen: 0.251 ppbv  
RT: 1.528 min Scan# 445  
Delta R.T. -0.004 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

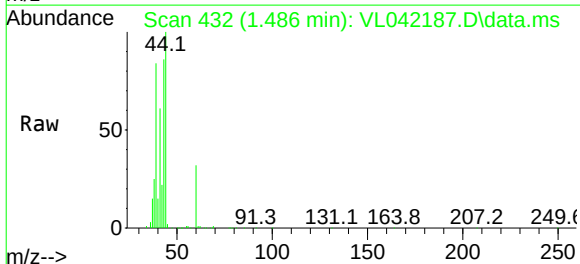
Tgt Ion: 50 Resp: 2809  
Ion Ratio Lower Upper  
50 100  
52 24.5 26.1 39.1#





#9  
Propene  
Concen: 0.615 ppbv  
RT: 1.486 min Scan# 431  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

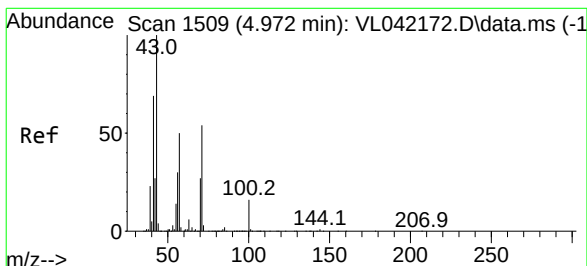
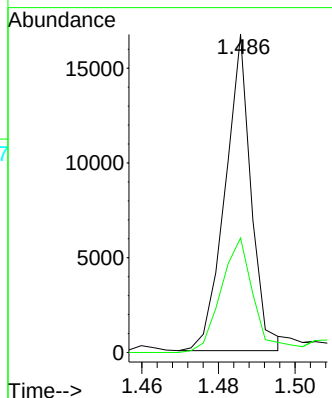
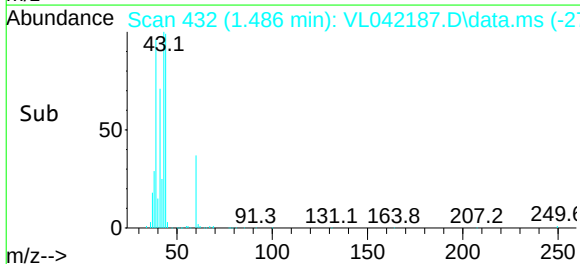
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025



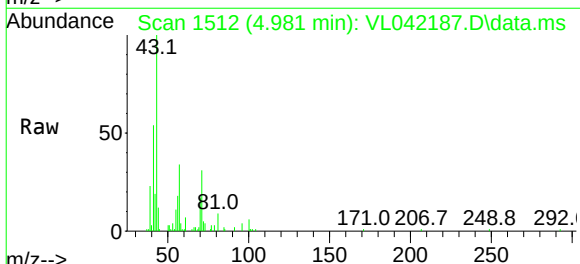
Tgt Ion: 41 Resp: 7879  
Ion Ratio Lower Upper  
41 100  
42 56.3 55.4 83.2

Manual Integrations  
APPROVED

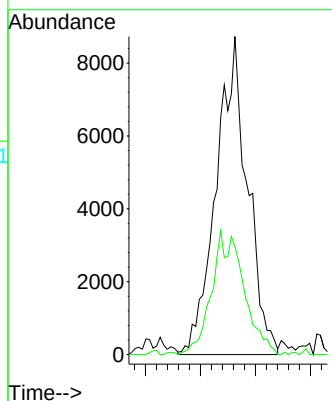
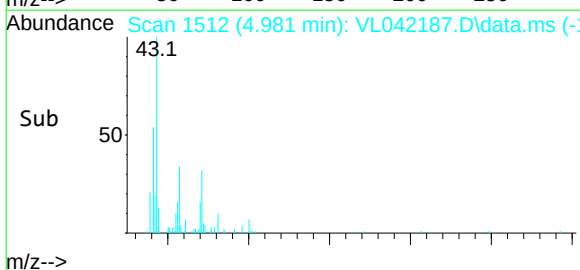
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

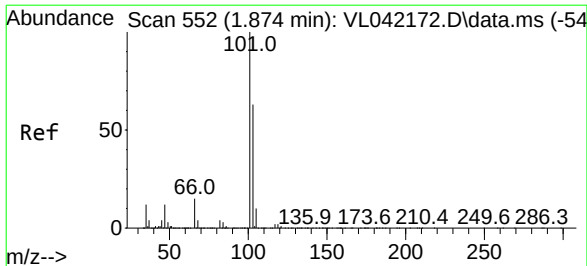


#10  
Heptane  
Concen: 0.507 ppbv m  
RT: 4.981 min Scan# 1512  
Delta R.T. 0.009 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36



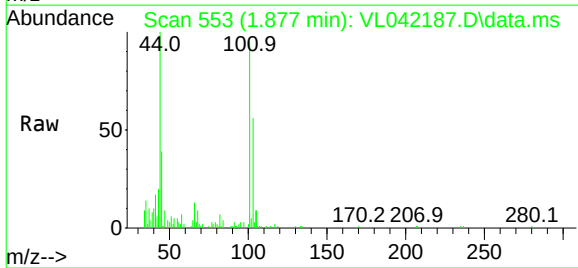
Tgt Ion: 43 Resp: 17273  
Ion Ratio Lower Upper  
43 100  
57 40.4 39.4 59.2





#11  
Trichlorofluoromethane  
Concen: 0.208 ppbv  
RT: 1.877 min Scan# 552  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

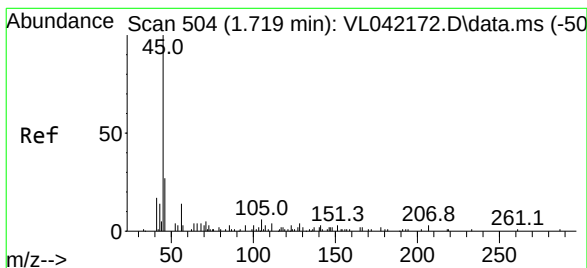
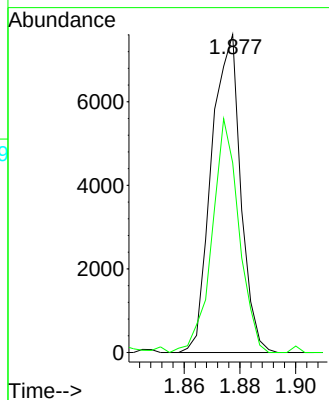
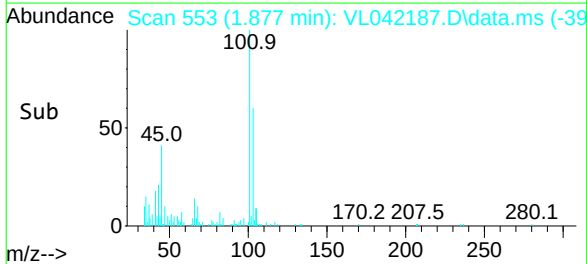
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025



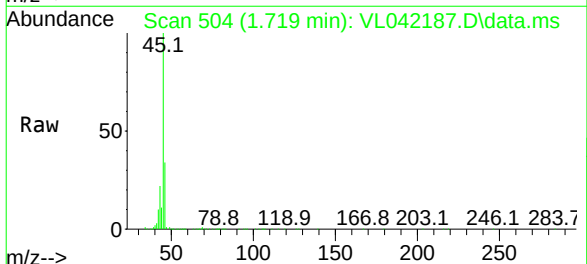
Tgt Ion: 101 Resp: 5528  
Ion Ratio Lower Upper  
101 100  
103 59.6 50.2 75.2

Manual Integrations  
APPROVED

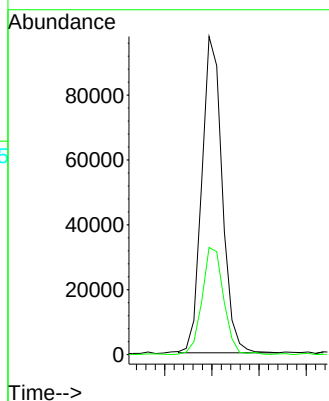
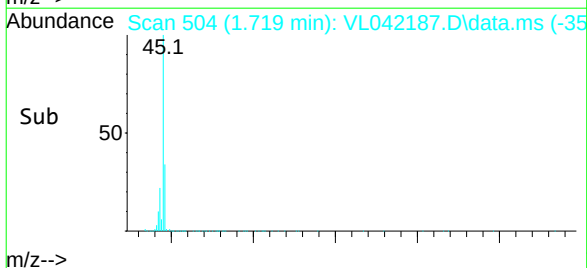
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

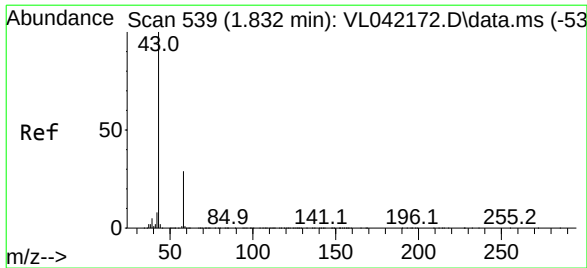


#13  
Ethanol  
Concen: 48.187 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36



Tgt Ion: 45 Resp: 58391  
Ion Ratio Lower Upper  
45 100  
46 36.4 20.2 80.8





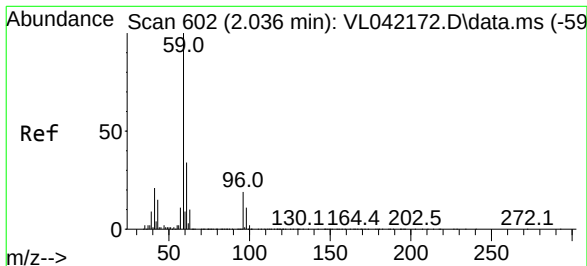
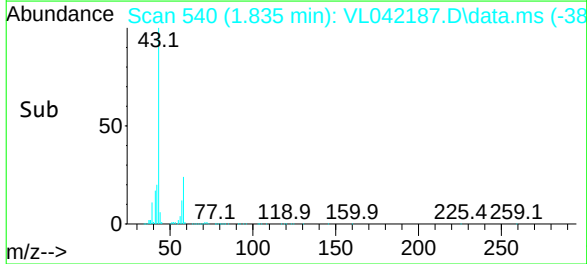
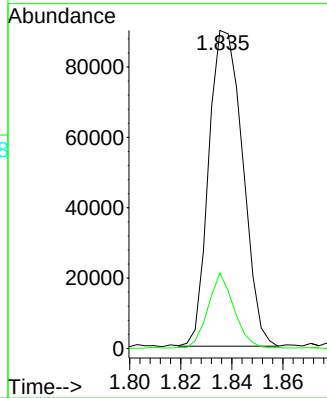
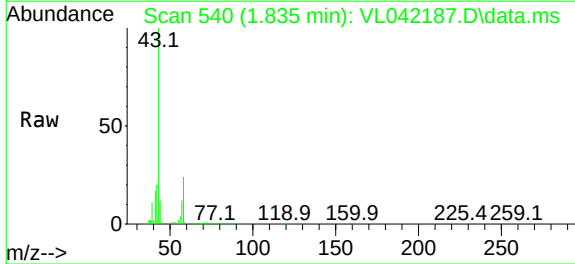
#15  
Acetone  
Concen: 3.197 ppbv  
RT: 1.835 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

Tgt Ion: 43 Resp: 82901  
Ion Ratio Lower Upper  
43 100  
58 19.3 23.2 34.8#

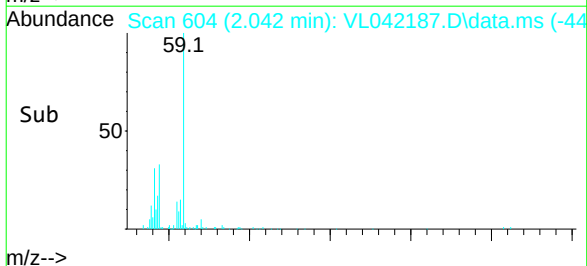
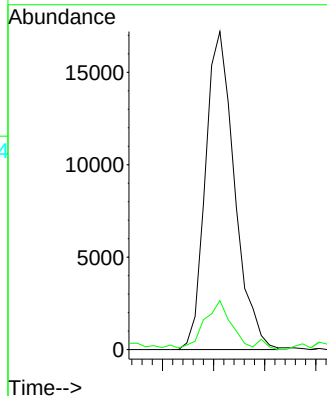
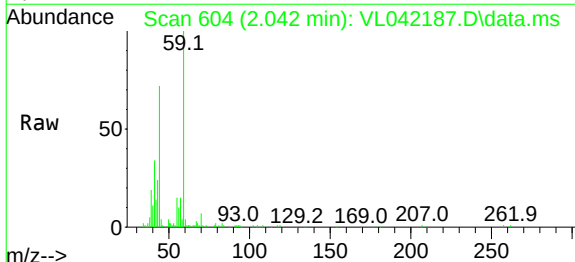
Manual Integrations  
APPROVED

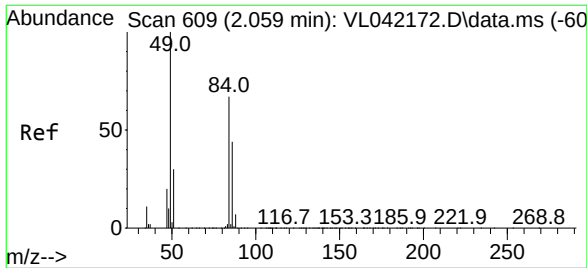
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#17  
tert-Butyl alcohol  
Concen: 0.423 ppbv  
RT: 2.042 min Scan# 604  
Delta R.T. 0.006 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 59 Resp: 13650  
Ion Ratio Lower Upper  
59 100  
57 13.1 8.9 13.3





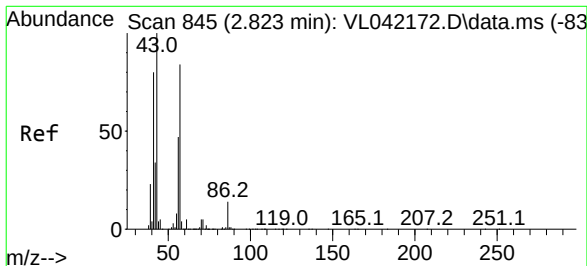
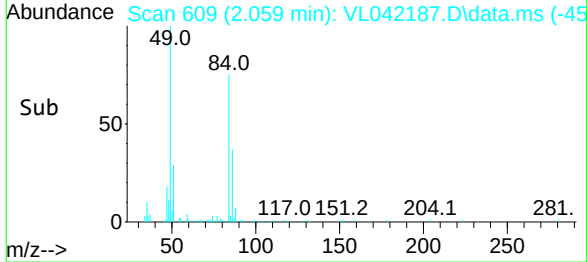
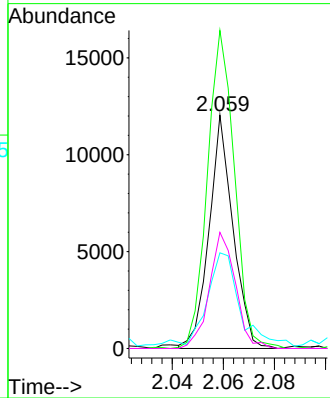
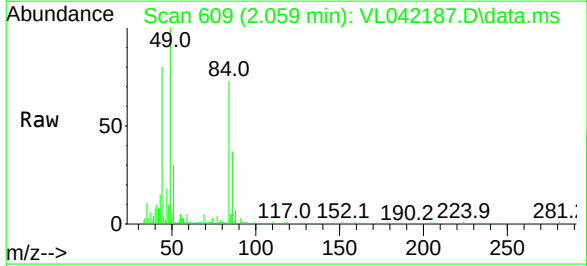
#20  
Methylene Chloride  
Concen: 0.814 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 7860  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 135.0 | 120.2 | 180.4 |
| 51       | 38.4  | 37.4  | 56.0  |
| 86       | 49.8  | 52.4  | 78.6# |

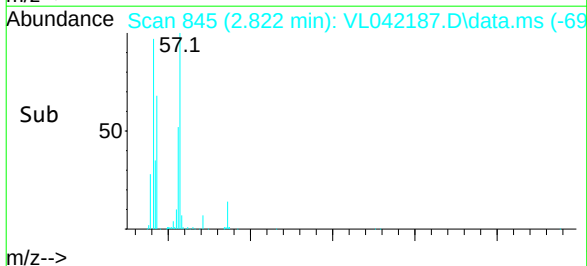
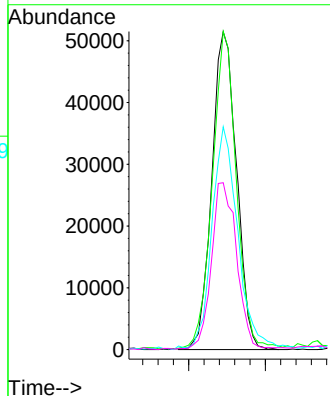
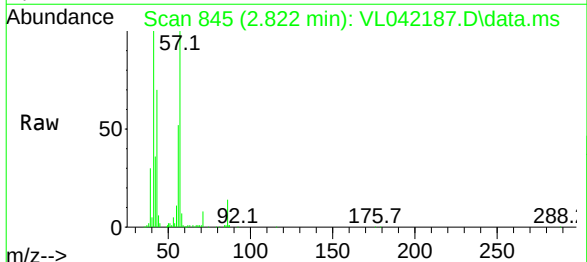
Manual Integrations  
APPROVED

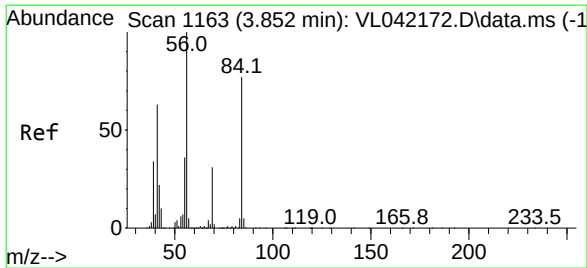
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#26  
Hexane  
Concen: 2.215 ppbv  
RT: 2.822 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

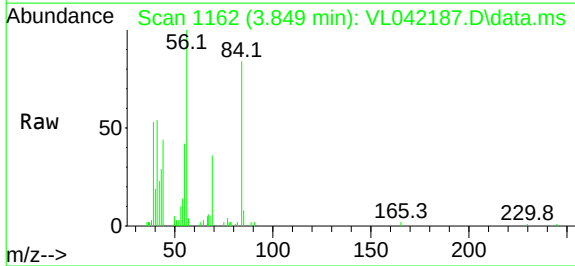
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 57580  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 98.0  | 76.6  | 114.8  |
| 43       | 74.4  | 207.8 | 311.8# |
| 56       | 54.3  | 43.6  | 65.4   |





#30  
Cyclohexane  
Concen: 0.281 ppbv m  
RT: 3.849 min Scan# 1163  
Delta R.T. -0.004 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

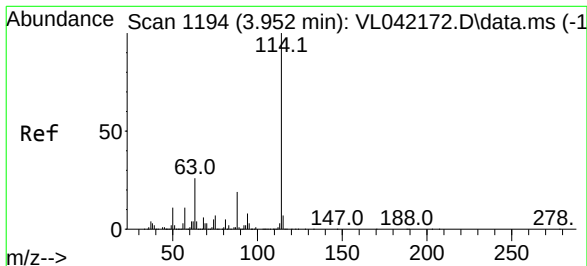
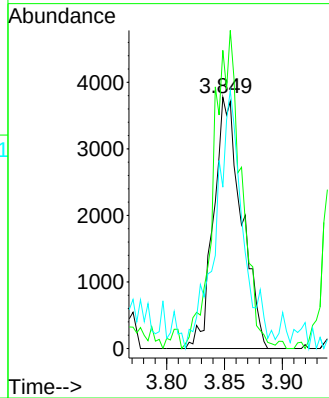
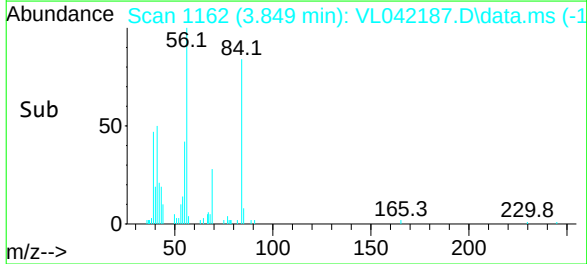
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025



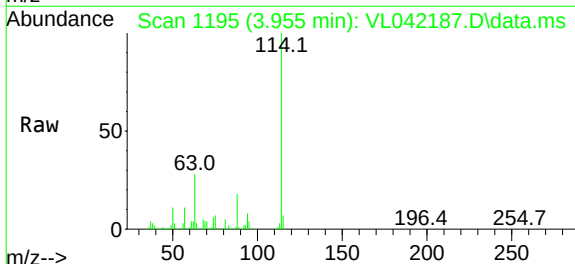
Tgt Ion: 84 Resp: 6351  
Ion Ratio Lower Upper  
84 100  
56 128.6 102.8 154.2  
41 106.7 66.5 99.7#

Manual Integrations  
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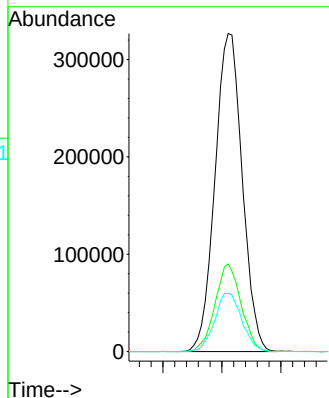
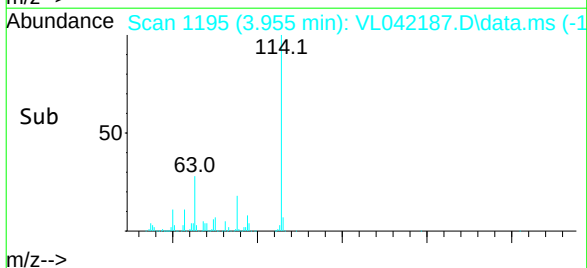
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



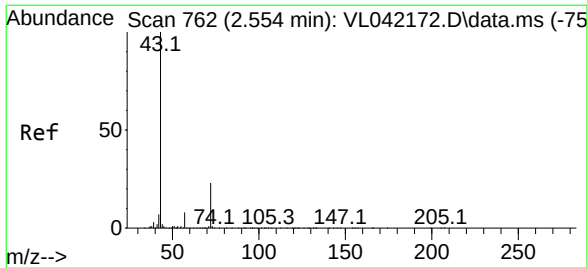
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.955 min Scan# 1195  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36



Tgt Ion:114 Resp: 523694  
Ion Ratio Lower Upper  
114 100  
63 26.4 20.7 31.1  
88 18.3 15.0 22.4







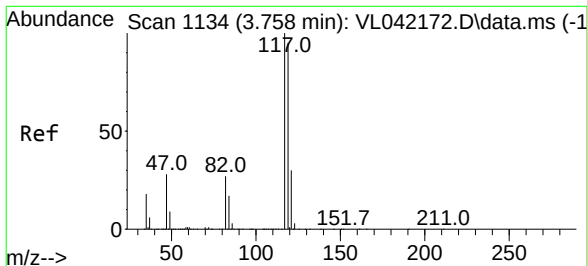
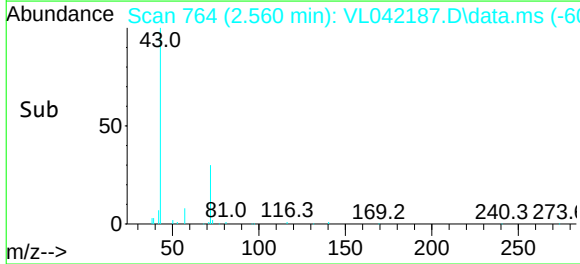
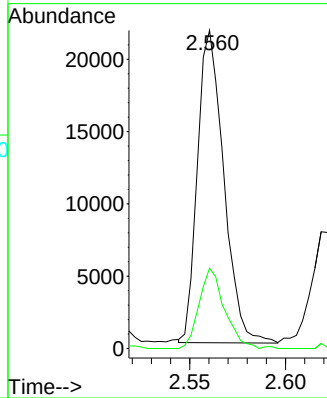
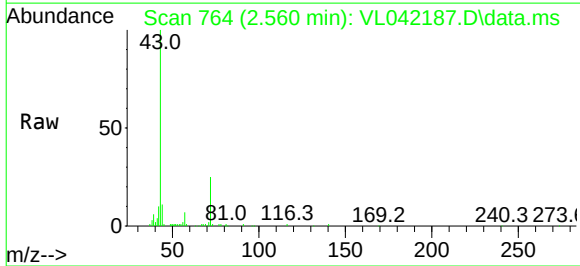
#34  
2-Butanone  
Concen: 0.543 ppbv  
RT: 2.560 min Scan# 762  
Delta R.T. 0.006 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

Tgt Ion: 43 Resp: 20631  
Ion Ratio Lower Upper  
43 100  
72 24.9 18.2 27.2

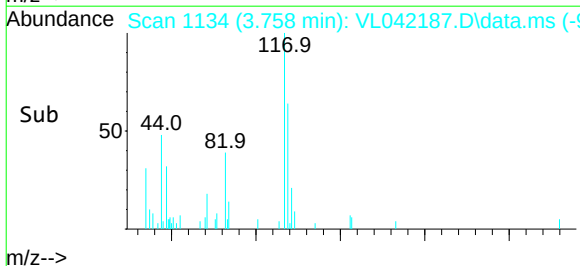
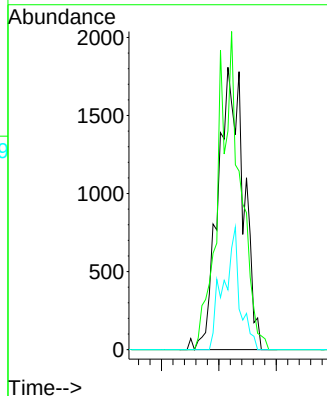
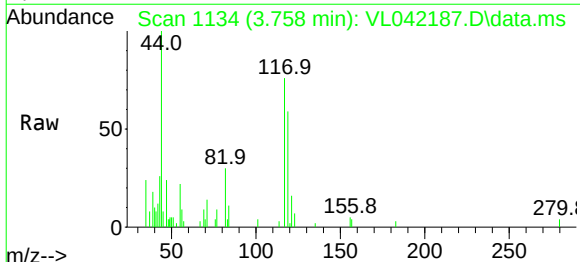
Manual Integrations  
APPROVED

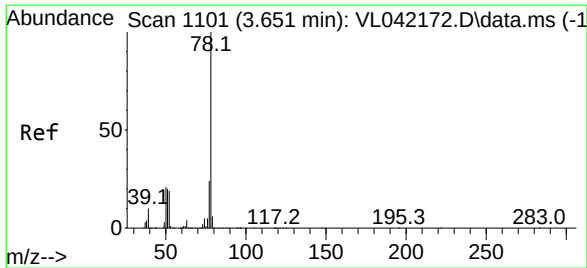
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#35  
Carbon Tetrachloride  
Concen: 0.069 ppbv m  
RT: 3.758 min Scan# 1134  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion:117 Resp: 2812  
Ion Ratio Lower Upper  
117 100  
119 77.4 76.2 114.2  
121 21.2 24.2 36.4#





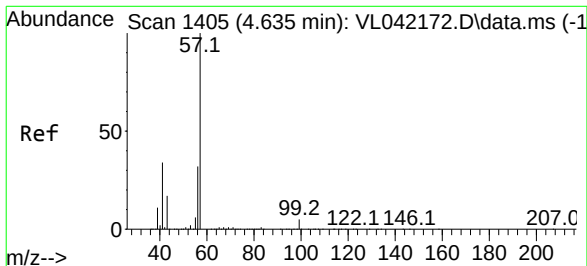
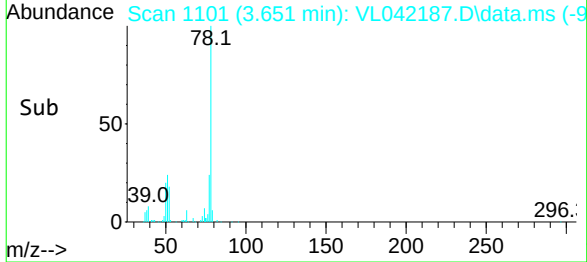
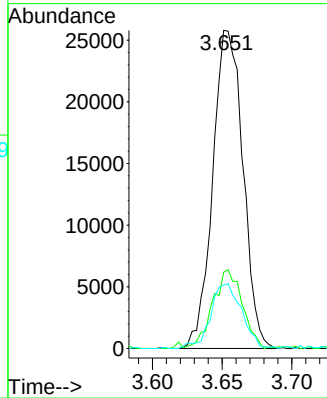
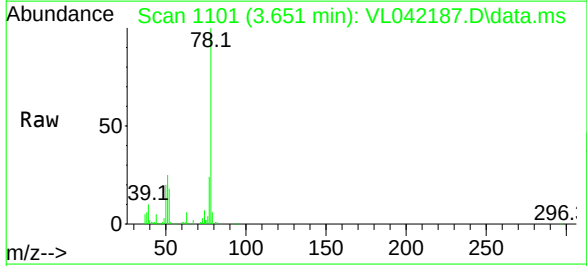
#36  
Benzene  
Concen: 0.749 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.6  | 19.1  | 28.7  |
| 50      | 19.9  | 16.6  | 24.8  |

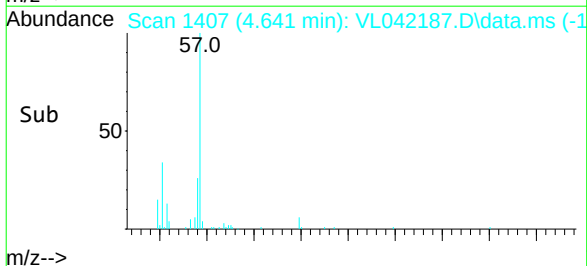
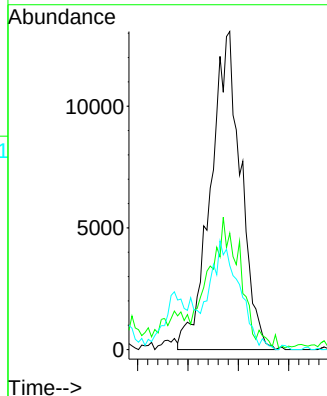
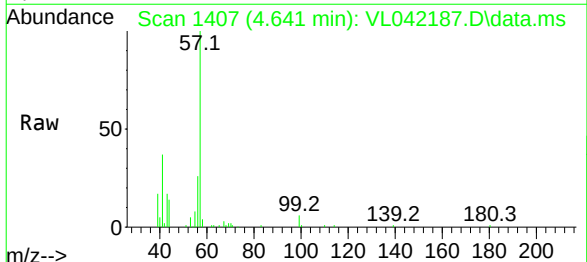
Manual Integrations  
APPROVED

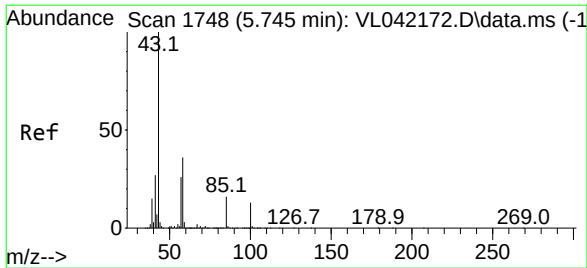
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#44  
2,2,4-Trimethylpentane  
Concen: 0.310 ppbv m  
RT: 4.641 min Scan# 1407  
Delta R.T. 0.006 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

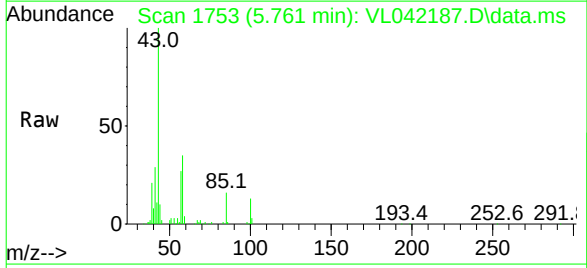
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 52.8  | 26.8  | 40.2# |
| 56      | 35.2  | 25.6  | 38.4  |





#50  
4-Methyl-2-Pentanone  
Concen: 0.864 ppbv m  
RT: 5.761 min Scan# 17  
Delta R.T. 0.016 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

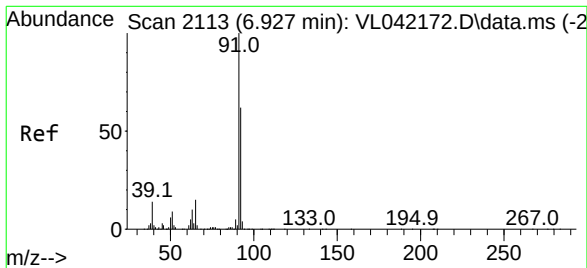
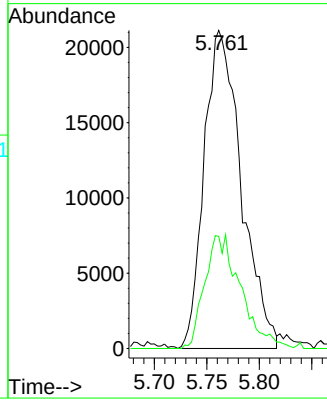
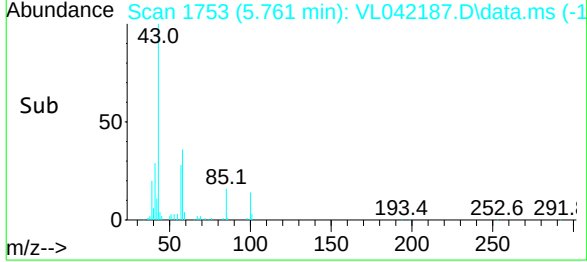
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025



Tgt Ion: 43 Resp: 52014  
Ion Ratio Lower Upper  
43 100  
58 34.7 29.0 43.6

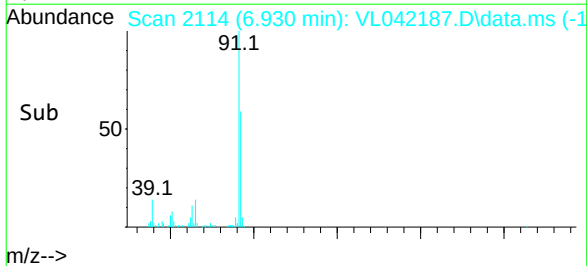
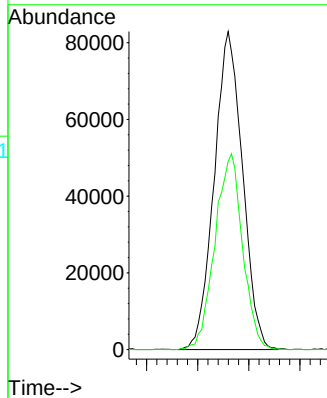
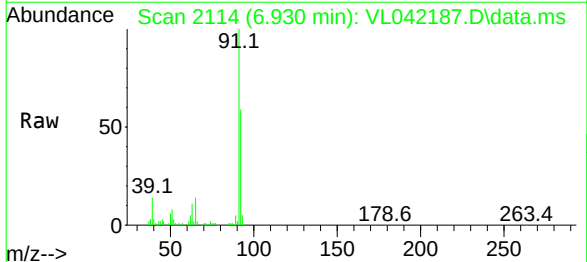
Manual Integrations  
APPROVED

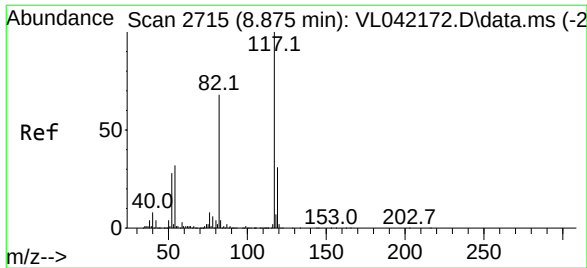
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#53  
Toluene  
Concen: 2.593 ppbv  
RT: 6.930 min Scan# 2114  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 91 Resp: 159613  
Ion Ratio Lower Upper  
91 100  
92 60.1 48.4 72.6





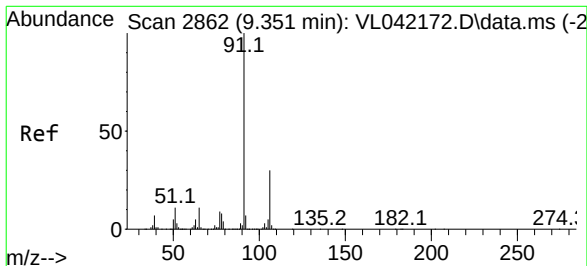
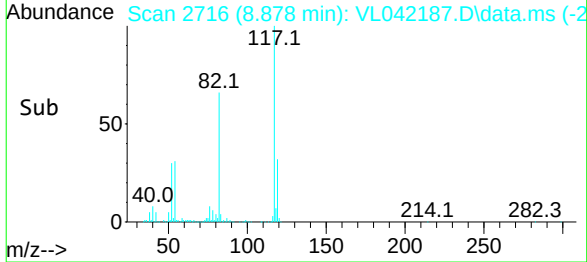
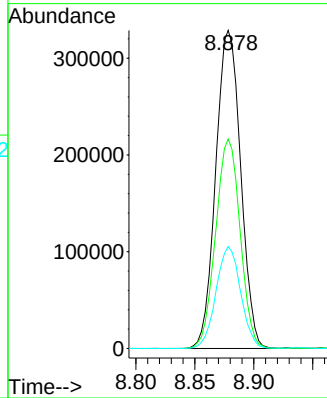
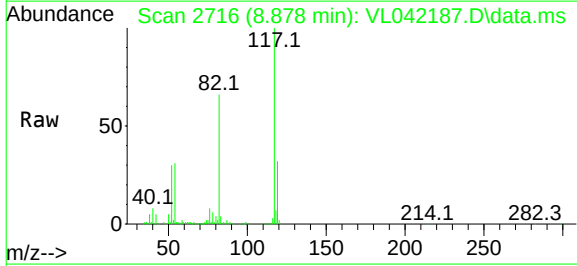
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 2715  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

Tgt Ion: 117 Resp: 484321  
Ion Ratio Lower Upper  
117 100  
82 64.6 55.8 83.6  
119 31.9 25.5 38.3

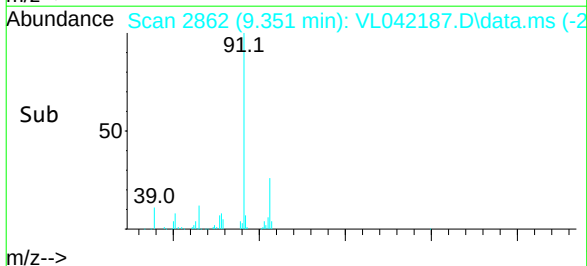
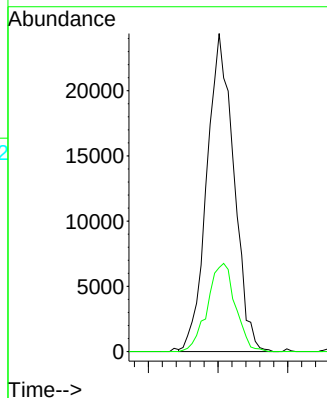
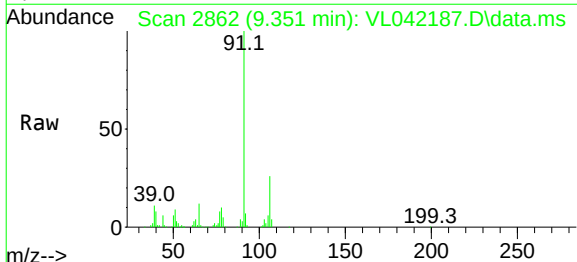
Manual Integrations  
APPROVED

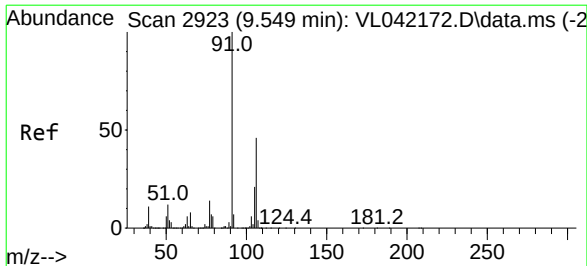
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#58  
Ethyl Benzene  
Concen: 0.381 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 91 Resp: 32819  
Ion Ratio Lower Upper  
91 100  
106 26.4 24.2 36.2





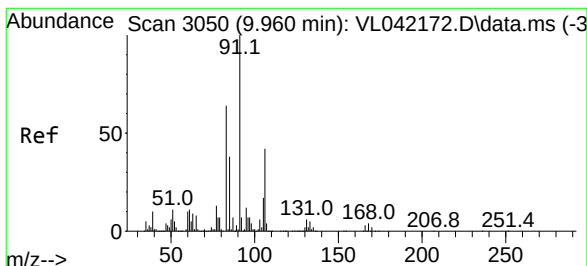
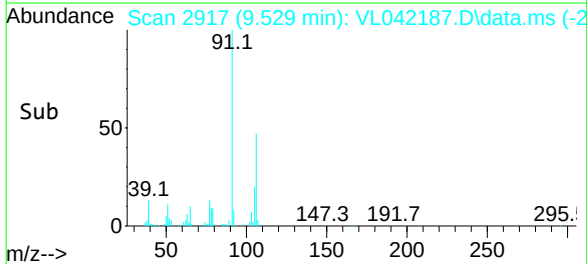
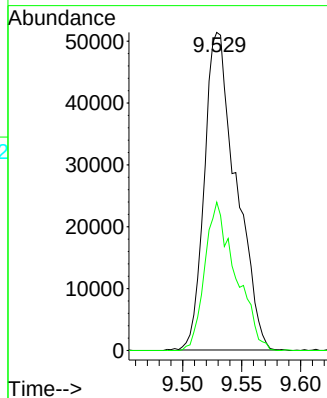
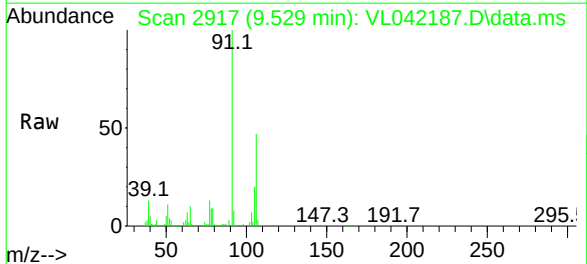
#59  
m/p-Xylene  
Concen: 1.398 ppbv  
RT: 9.529 min Scan# 2917  
Delta R.T. -0.020 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Instrument : MSVOA\_L  
ClientSampleId : IA-B9-1-3262025

Tgt Ion: 91 Resp: 96052  
Ion Ratio Lower Upper  
91 100  
106 45.6 36.4 54.6

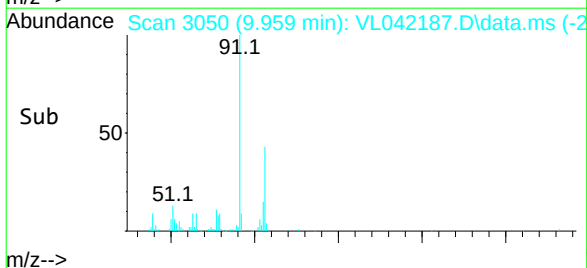
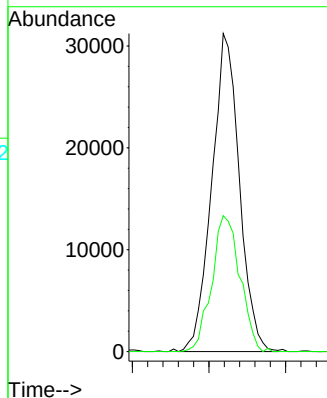
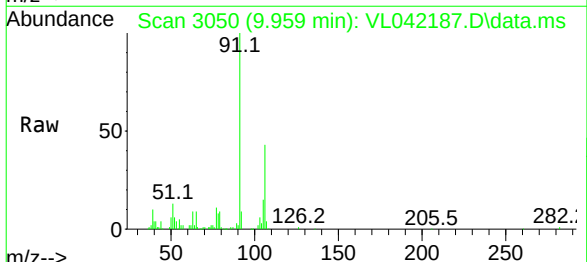
Manual Integrations  
APPROVED

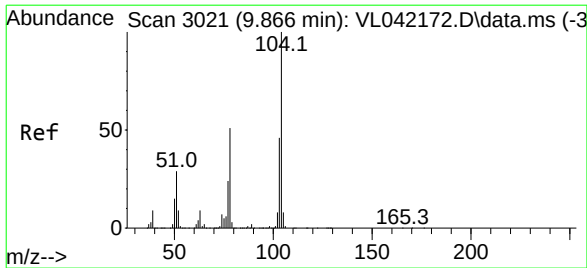
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#60  
o-Xylene  
Concen: 0.566 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 91 Resp: 38965  
Ion Ratio Lower Upper  
91 100  
106 43.9 20.8 62.5





#61

Styrene

Concen: 2.528 ppbv

RT: 9.869 min Scan# 3021

Delta R.T. 0.003 min

Lab File: VL042187.D

Acq: 27 Mar 2025 19:36

Instrument :

MSVOA\_L

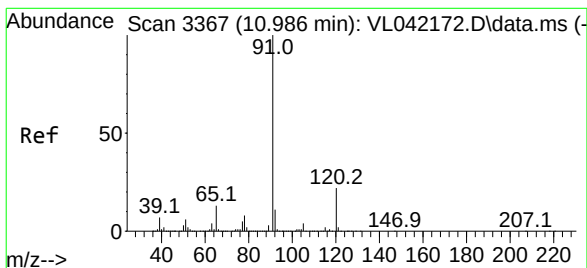
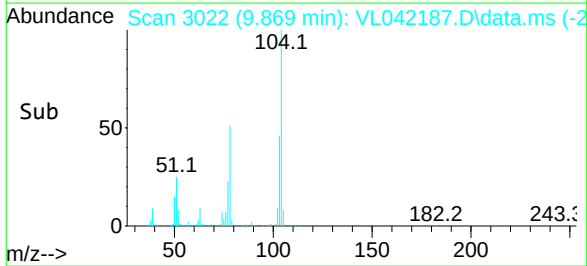
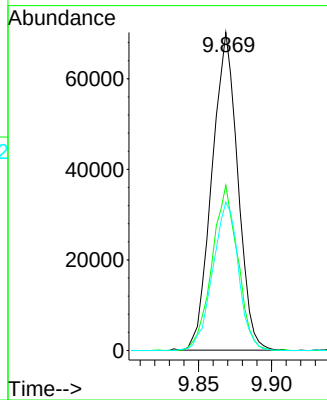
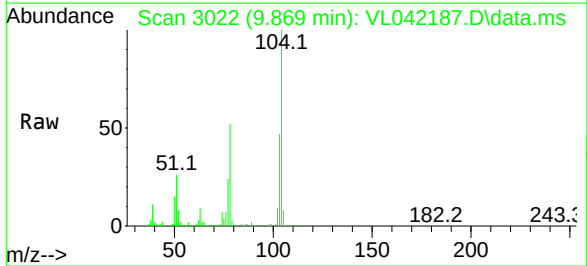
ClientSampleId :

IA-B9-1-3262025

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 104   | Resp: | 86112 |
| Ion Ratio | Lower | Upper |       |
| 104       | 100   |       |       |
| 78        | 51.9  | 41.8  | 62.6  |
| 103       | 46.9  | 37.0  | 55.4  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#64

n-propylbenzene

Concen: 0.106 ppbv m

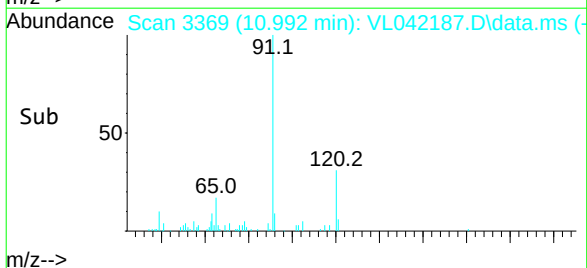
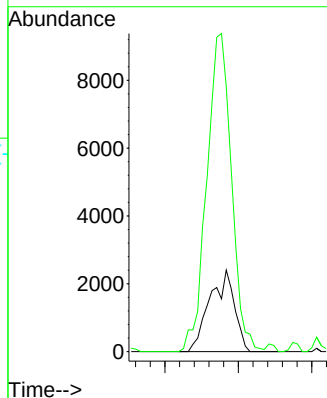
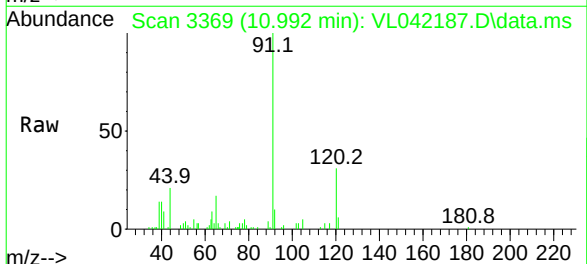
RT: 10.992 min Scan# 3369

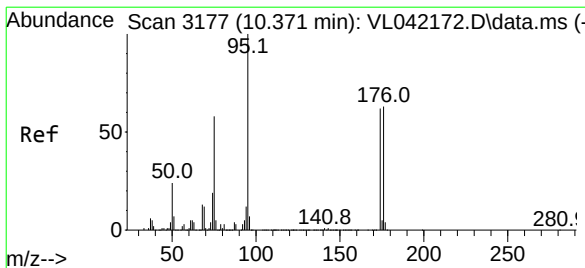
Delta R.T. 0.006 min

Lab File: VL042187.D

Acq: 27 Mar 2025 19:36

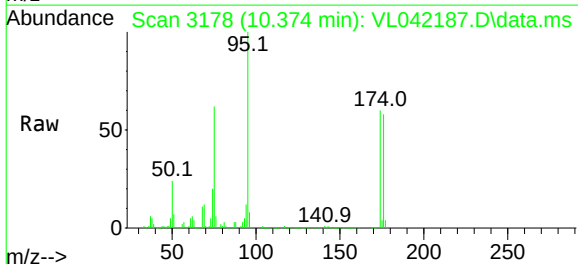
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 120   | Resp: | 2810  |
| Ion Ratio | Lower | Upper |       |
| 120       | 100   |       |       |
| 91        | 396.5 | 376.9 | 565.3 |





#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.801 ppbv  
RT: 10.374 min Scan# 3177  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

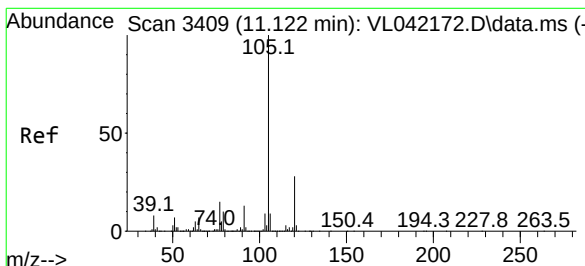
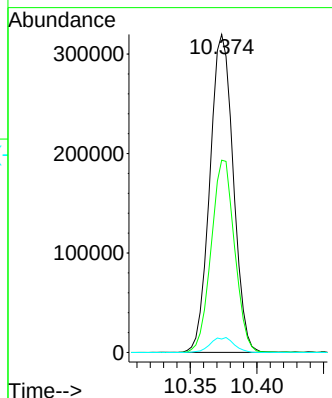
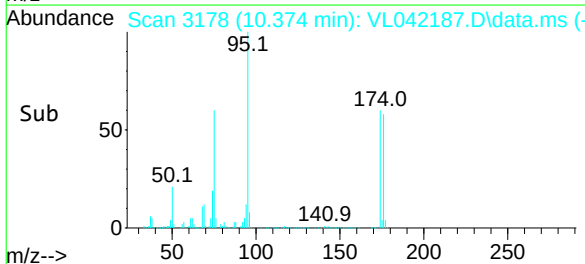
Instrument : MSVOA\_L  
ClientSampleId : IA-B9-1-3262025



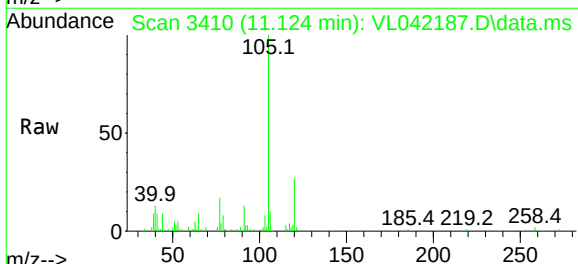
Tgt Ion: 95 Resp: 389805  
Ion Ratio Lower Upper  
95 100  
174 60.8 50.6 76.0  
175 4.8 3.8 5.6

Manual Integrations  
APPROVED

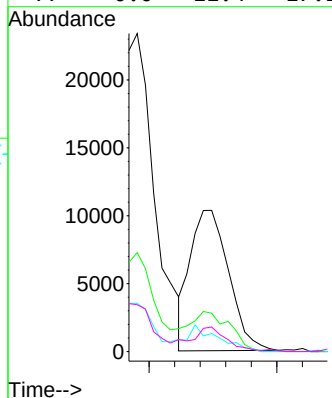
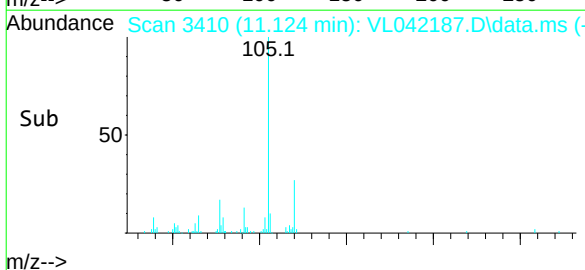
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

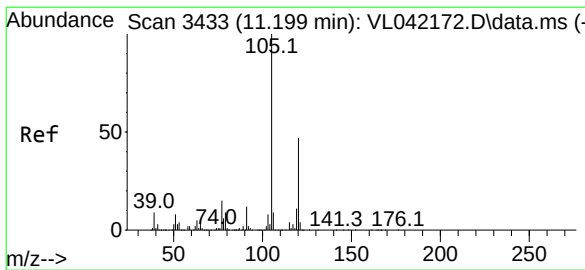


#72  
4-Ethyltoluene  
Concen: 0.126 ppbv  
RT: 11.124 min Scan# 3410  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36



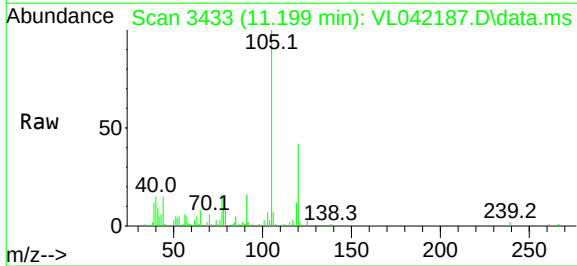
Tgt Ion:105 Resp: 10792  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.4 35.0#  
91 0.0 10.3 15.5#  
77 0.0 11.4 17.2#





#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.145 ppbv  
 RT: 11.199 min Scan# 3433  
 Delta R.T. -0.000 min  
 Lab File: VL042187.D  
 Acq: 27 Mar 2025 19:36

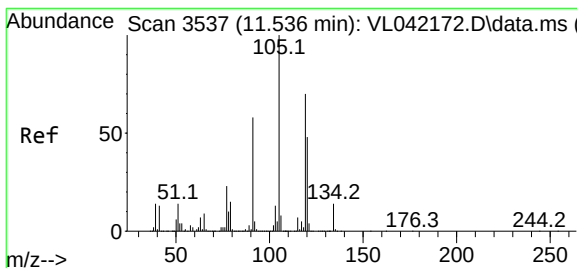
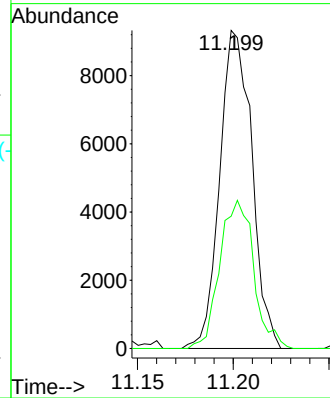
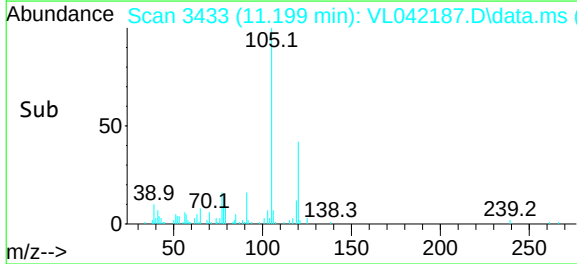
Instrument : MSVOA\_L  
 ClientSampleId : IA-B9-1-3262025



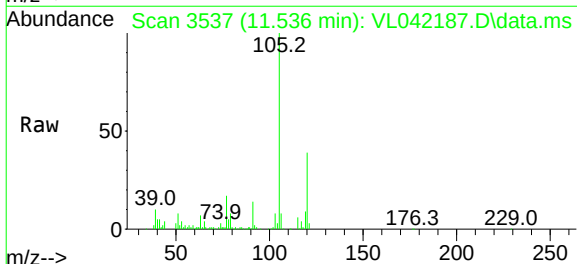
Tgt Ion: 105 Resp: 10875  
 Ion Ratio Lower Upper  
 105 100  
 120 41.6 37.4 56.0

Manual Integrations  
 APPROVED

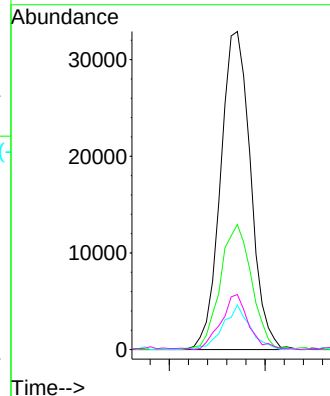
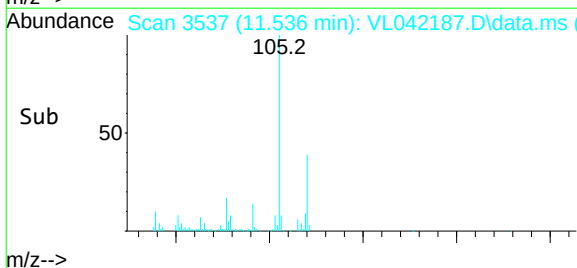
Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025



#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.415 ppbv  
 RT: 11.536 min Scan# 3537  
 Delta R.T. -0.000 min  
 Lab File: VL042187.D  
 Acq: 27 Mar 2025 19:36



Tgt Ion: 105 Resp: 35817  
 Ion Ratio Lower Upper  
 105 100  
 120 39.3 38.6 58.0  
 91 14.1 46.2 69.2#  
 77 17.0 18.6 27.8#





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042187.D  
Acq On : 27 Mar 2025 19:36  
Operator : SY/MD  
Sample : Q1669-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

Signal : TIC: VL042187.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.428       | 409           | 414         | 420          | rBV      | 4301374        | 4710651       | 100.00%         | 31.571%       |
| 2         | 1.618       | 470           | 473         | 477          | rVB      | 156815         | 78959         | 1.68%           | 0.529%        |
| 3         | 1.719       | 498           | 504         | 509          | rBV      | 168321         | 103085        | 2.19%           | 0.691%        |
| 4         | 1.771       | 516           | 520         | 525          | rVB      | 97059          | 63145         | 1.34%           | 0.423%        |
| 5         | 1.842       | 533           | 542         | 548          | rBV2     | 269624         | 232004        | 4.93%           | 1.555%        |
| 6         | 1.962       | 574           | 579         | 584          | rVB      | 237364         | 159501        | 3.39%           | 1.069%        |
| 7         | 2.473       | 730           | 737         | 745          | rVB      | 211971         | 219624        | 4.66%           | 1.472%        |
| 8         | 2.622       | 774           | 783         | 791          | rVB2     | 122100         | 128445        | 2.73%           | 0.861%        |
| 9         | 2.787       | 824           | 834         | 840          | rBV      | 679173         | 719172        | 15.27%          | 4.820%        |
| 10        | 2.823       | 840           | 845         | 857          | rVB2     | 234183         | 271041        | 5.75%           | 1.817%        |
| 11        | 3.224       | 960           | 969         | 979          | rBV2     | 69154          | 101212        | 2.15%           | 0.678%        |
| 12        | 3.651       | 1087          | 1101        | 1110         | rBV2     | 63116          | 103844        | 2.20%           | 0.696%        |
| 13        | 3.955       | 1182          | 1195        | 1208         | rBV2     | 872909         | 1389529       | 29.50%          | 9.313%        |
| 14        | 4.046       | 1214          | 1223        | 1232         | rBV2     | 38945          | 67415         | 1.43%           | 0.452%        |
| 15        | 4.263       | 1276          | 1290        | 1303         | rBV6     | 52862          | 102619        | 2.18%           | 0.688%        |
| 16        | 4.638       | 1397          | 1406        | 1419         | rVB3     | 31547          | 68470         | 1.45%           | 0.459%        |
| 17        | 4.978       | 1497          | 1511        | 1524         | rBV6     | 33760          | 68274         | 1.45%           | 0.458%        |
| 18        | 5.658       | 1704          | 1721        | 1722         | rBV6     | 29028          | 47729         | 1.01%           | 0.320%        |
| 19        | 5.761       | 1742          | 1753        | 1770         | rBV5     | 60778          | 151794        | 3.22%           | 1.017%        |
| 20        | 6.930       | 2100          | 2114        | 2132         | rVB2     | 221303         | 456409        | 9.69%           | 3.059%        |
| 21        | 7.687       | 2338          | 2348        | 2361         | rVB5     | 40124          | 70097         | 1.49%           | 0.470%        |
| 22        | 8.299       | 2530          | 2537        | 2547         | rVB7     | 27944          | 47603         | 1.01%           | 0.319%        |
| 23        | 8.878       | 2704          | 2716        | 2727         | rBV      | 1150031        | 1706112       | 36.22%          | 11.434%       |
| 24        | 8.933       | 2727          | 2733        | 2743         | rVB3     | 34395          | 55575         | 1.18%           | 0.372%        |
| 25        | 9.147       | 2788          | 2799        | 2813         | rVB2     | 101510         | 152584        | 3.24%           | 1.023%        |
| 26        | 9.351       | 2854          | 2862        | 2868         | rBV3     | 59128          | 85553         | 1.82%           | 0.573%        |
| 27        | 9.386       | 2868          | 2873        | 2890         | rVB2     | 89014          | 125835        | 2.67%           | 0.843%        |
| 28        | 9.529       | 2906          | 2917        | 2933         | rVB3     | 155383         | 297317        | 6.31%           | 1.993%        |
| 29        | 9.629       | 2939          | 2948        | 2961         | rBV3     | 44543          | 71120         | 1.51%           | 0.477%        |
| 30        | 9.869       | 3011          | 3022        | 3033         | rVB2     | 252203         | 334740        | 7.11%           | 2.243%        |
| 31        | 9.959       | 3037          | 3050        | 3061         | rBV2     | 94028          | 151319        | 3.21%           | 1.014%        |
| 32        | 10.374      | 3162          | 3178        | 3190         | rBV      | 1515532        | 1874231       | 39.79%          | 12.561%       |
| 33        | 10.807      | 3304          | 3312        | 3320         | rBV2     | 57952          | 75128         | 1.59%           | 0.504%        |
| 34        | 11.092      | 3391          | 3400        | 3405         | rBV      | 62844          | 70819         | 1.50%           | 0.475%        |
| 35        | 11.532      | 3528          | 3536        | 3544         | rBV      | 97866          | 120361        | 2.56%           | 0.807%        |
| 36        | 12.083      | 3699          | 3706        | 3714         | rVB2     | 58599          | 67164         | 1.43%           | 0.450%        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042187.D  
Acq On : 27 Mar 2025 19:36  
Operator : SY/MD  
Sample : Q1669-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

Integration Parameters: RTEINT.P  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 3 Min Area: 3 % of largest Peak  
Start Thrs: 0.001 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 0

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

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 37 | 12.225 | 3743 | 3750 | 3757 | rBV2 | 119626 | 129519 | 2.75% | 0.868% |
| 38 | 12.439 | 3810 | 3816 | 3820 | rBV  | 71021  | 70597  | 1.50% | 0.473% |
| 39 | 12.510 | 3830 | 3838 | 3844 | rBV  | 77564  | 89280  | 1.90% | 0.598% |
| 40 | 12.652 | 3873 | 3882 | 3886 | rBV2 | 62565  | 83162  | 1.77% | 0.557% |

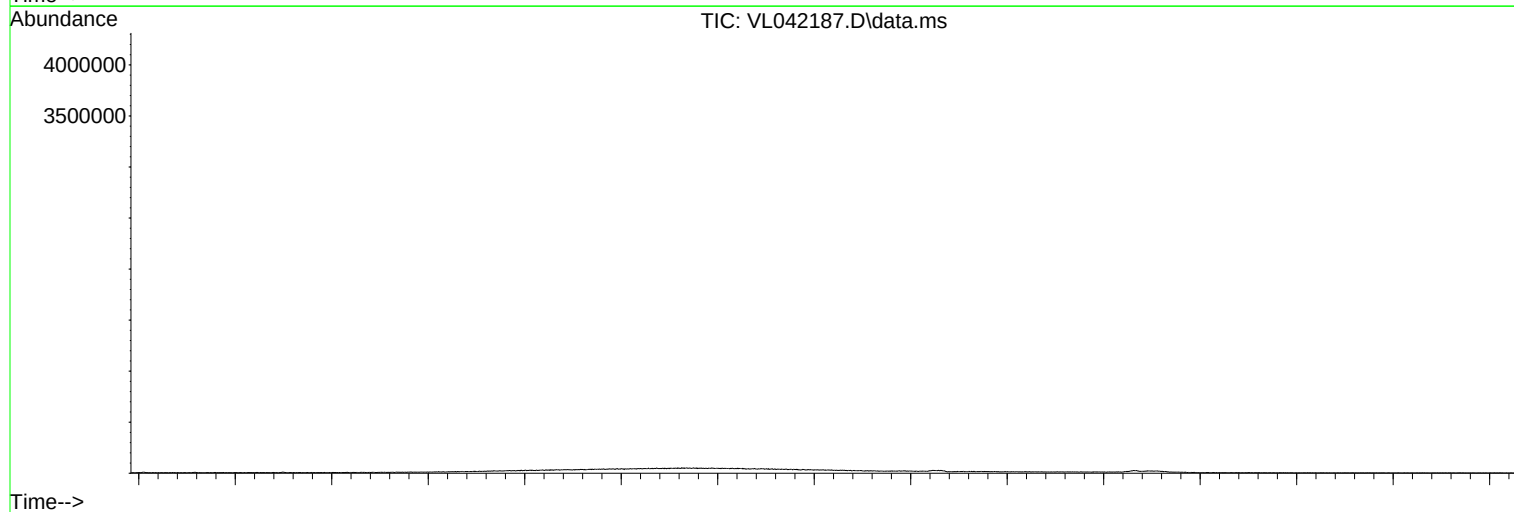
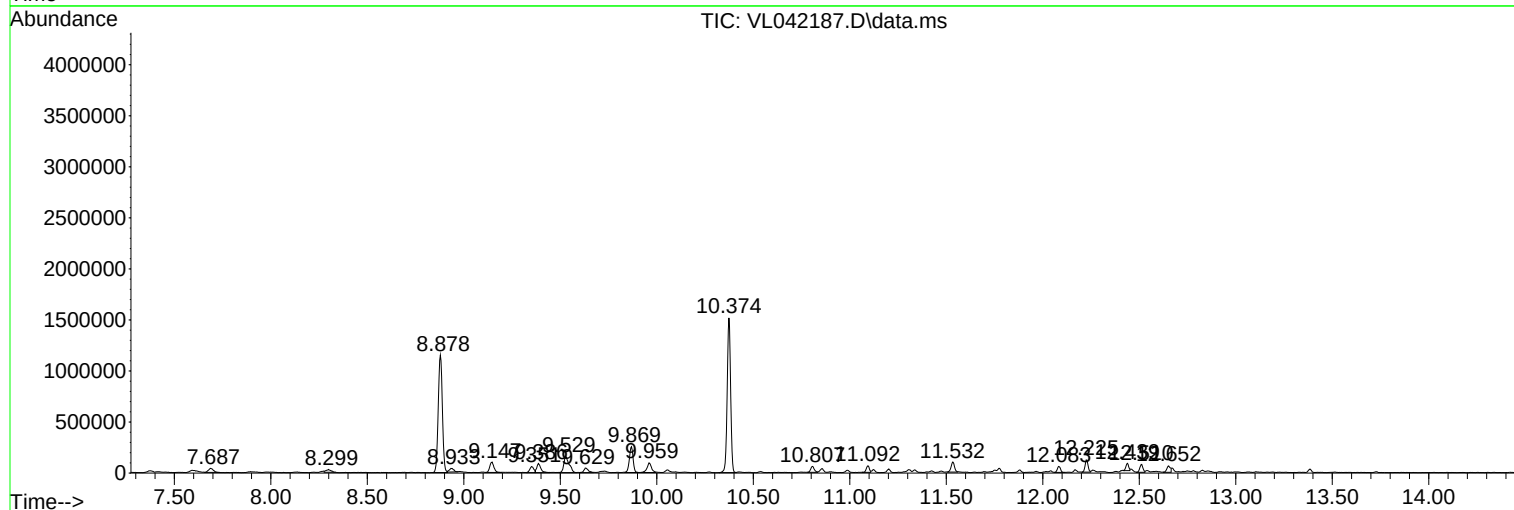
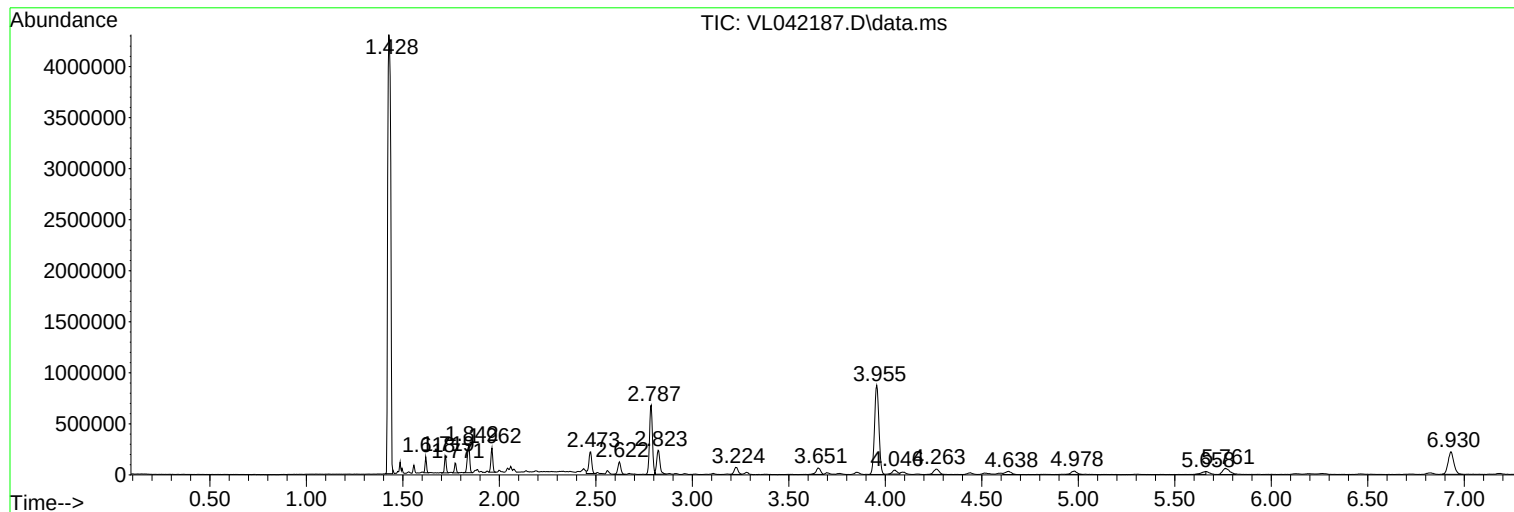
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Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042187.D  
Acq On : 27 Mar 2025 19:36  
Operator : SY/MD  
Sample : Q1669-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042187.D  
Acq On : 27 Mar 2025 19:36  
Operator : SY/MD  
Sample : Q1669-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

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

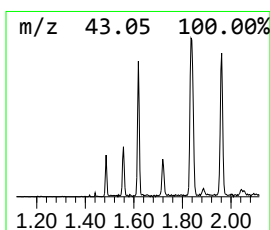
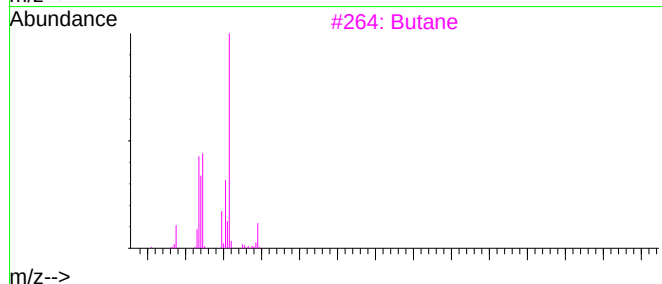
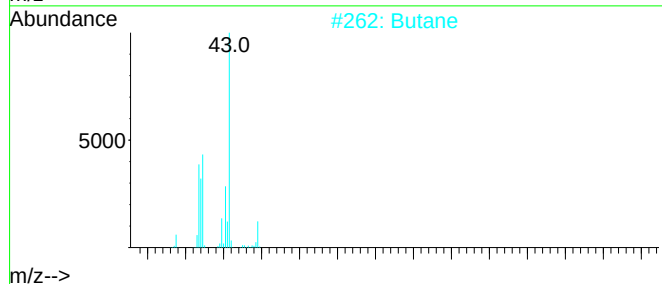
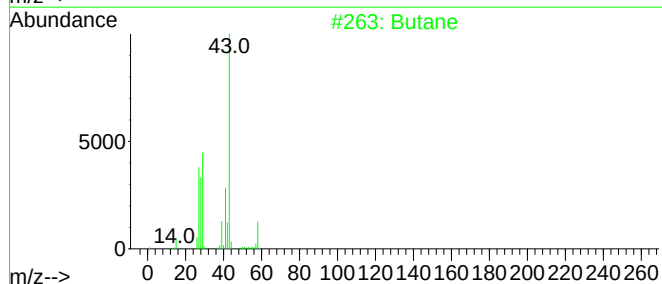
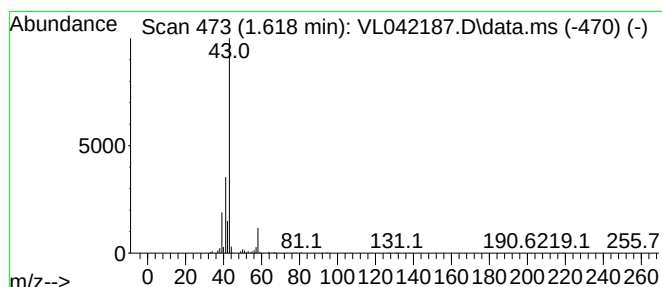
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Butane Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD   | R.T.  |
|-------|-----------|-------|--------------------|-------|
| 1.618 | 1.10 ppbv | 78959 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|-----------|------------------------|-----|---------|-------------|------|
| 1         | Butane                 | 58  | C4H10   | 000106-97-8 | 53   |
| 2         | Butane                 | 58  | C4H10   | 000106-97-8 | 53   |
| 3         | Butane                 | 58  | C4H10   | 000106-97-8 | 53   |
| 4         | 1-Propen-2-ol, acetate | 100 | C5H8O2  | 000108-22-5 | 42   |
| 5         | Butane                 | 58  | C4H10   | 000106-97-8 | 42   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042187.D  
Acq On : 27 Mar 2025 19:36  
Operator : SY/MD  
Sample : Q1669-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

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

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

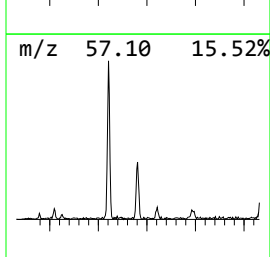
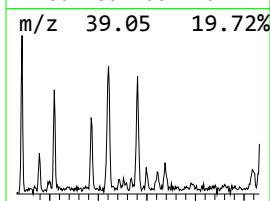
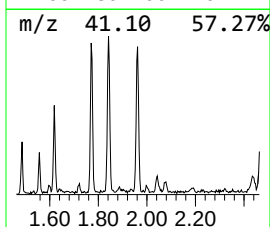
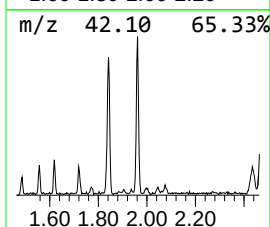
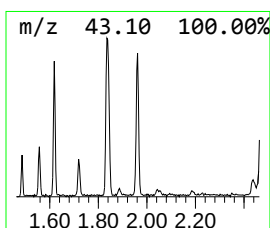
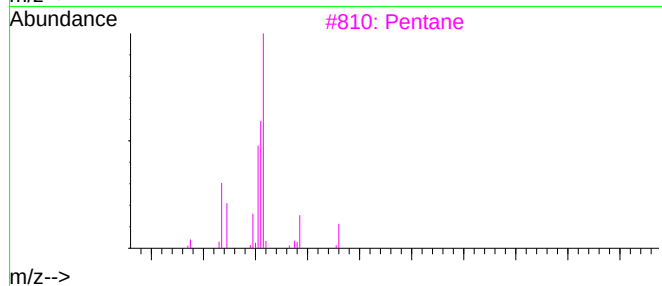
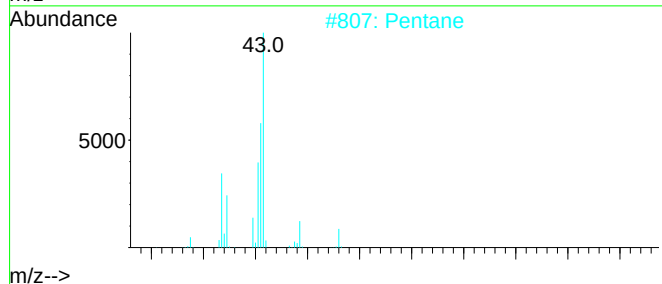
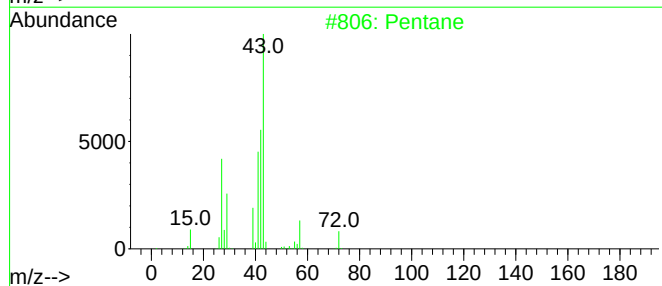
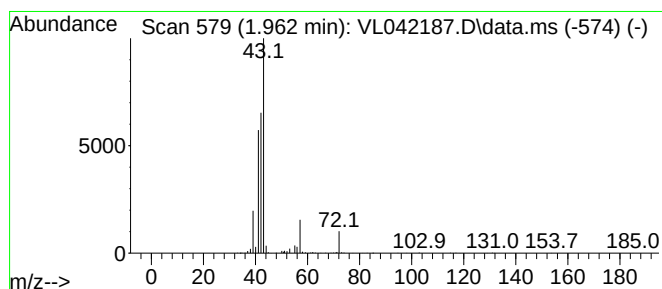
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Peak Number 2 Pentane Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 1.962 | 2.22 ppbv | 159501 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|-----------|-------------------|----|---------|-------------|------|
| 1         | Pentane           | 72 | C5H12   | 000109-66-0 | 86   |
| 2         | Pentane           | 72 | C5H12   | 000109-66-0 | 86   |
| 3         | Pentane           | 72 | C5H12   | 000109-66-0 | 86   |
| 4         | Pentane           | 72 | C5H12   | 000109-66-0 | 78   |
| 5         | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042187.D  
Acq On : 27 Mar 2025 19:36  
Operator : SY/MD  
Sample : Q1669-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

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

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

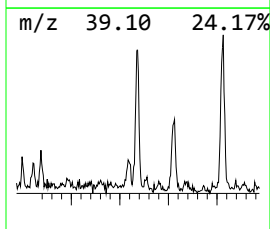
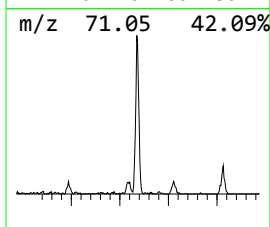
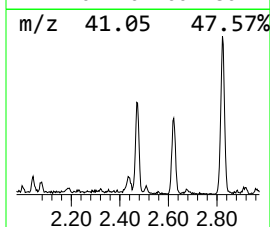
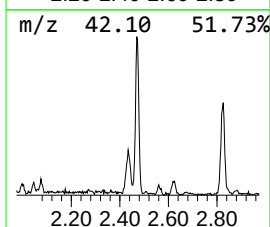
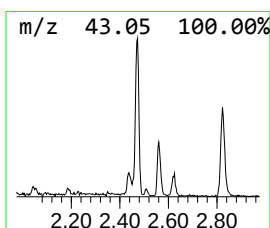
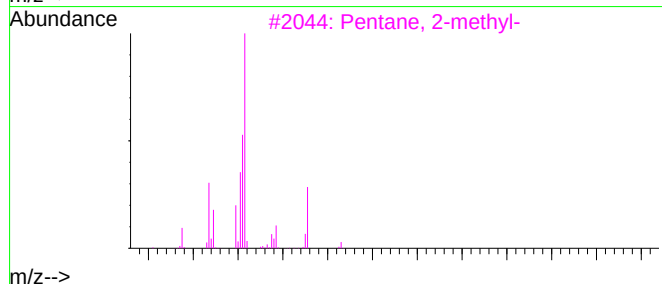
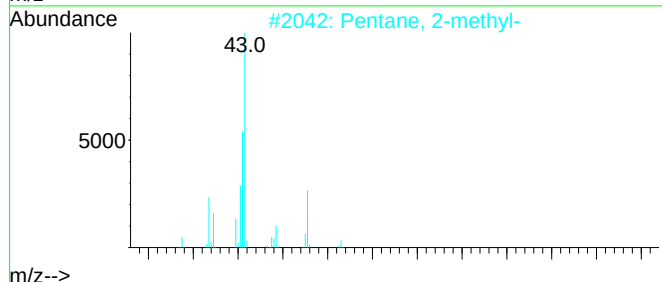
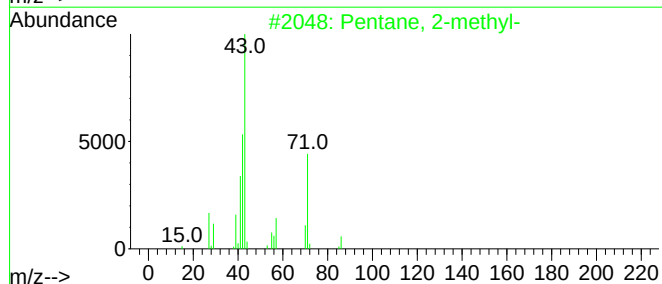
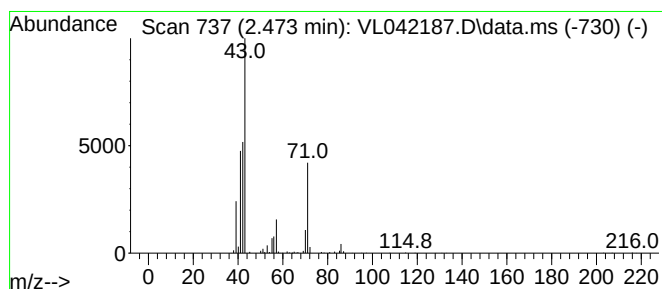
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Peak Number 3 Pentane, 2-methyl- Concentration Rank 1

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.473 | 3.05 ppbv | 219624 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID       | MW | MolForm | CAS#        | Qual |
|-----------|--------------------|----|---------|-------------|------|
| 1         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 91   |
| 2         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 90   |
| 3         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 87   |
| 4         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 83   |
| 5         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 80   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042187.D  
Acq On : 27 Mar 2025 19:36  
Operator : SY/MD  
Sample : Q1669-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

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

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

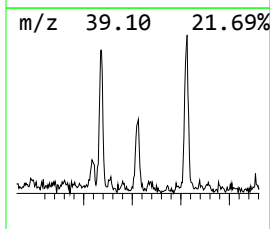
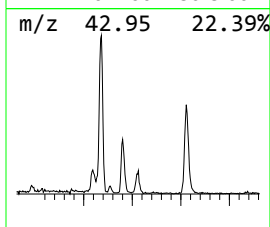
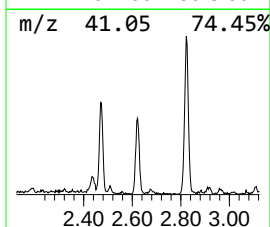
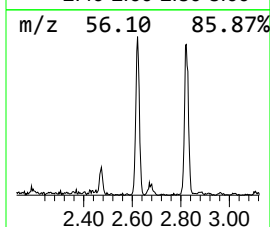
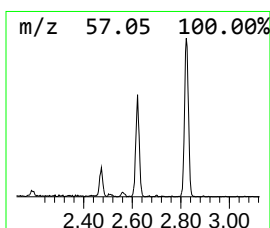
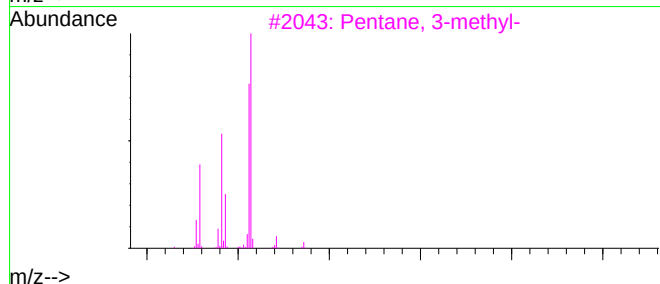
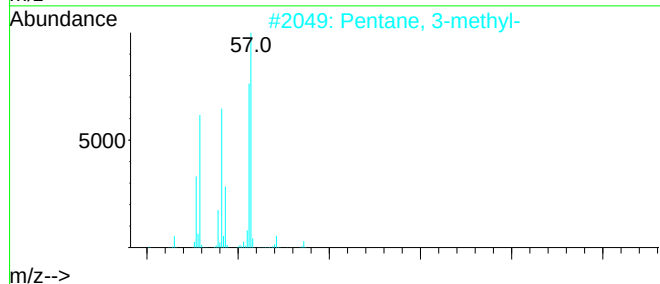
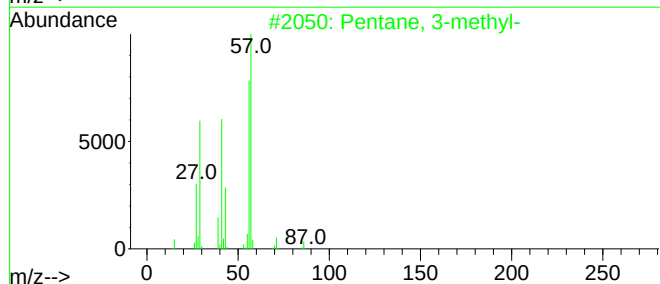
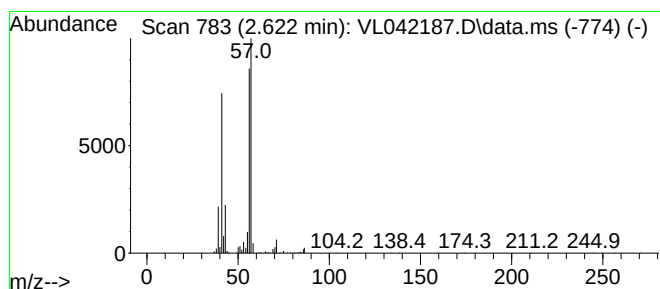
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Peak Number 4 Pentane, 3-methyl- Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.622 | 1.79 ppbv | 128445 | Bromochloromethane | 2.784 |

| Hit# of 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|-----------|--------------------------|-----|---------|-------------|------|
| 1         | Pentane, 3-methyl-       | 86  | C6H14   | 000096-14-0 | 90   |
| 2         | Pentane, 3-methyl-       | 86  | C6H14   | 000096-14-0 | 90   |
| 3         | Pentane, 3-methyl-       | 86  | C6H14   | 000096-14-0 | 80   |
| 4         | 1-Hexene, 4-methyl-      | 98  | C7H14   | 003769-23-1 | 64   |
| 5         | Hexane, 2,2,3-trimethyl- | 128 | C9H20   | 016747-25-4 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042187.D  
Acq On : 27 Mar 2025 19:36  
Operator : SY/MD  
Sample : Q1669-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

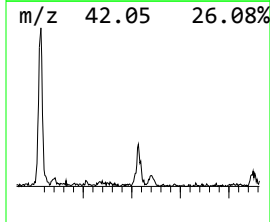
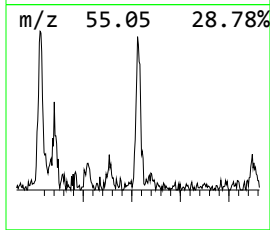
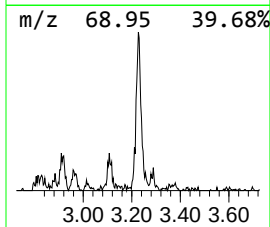
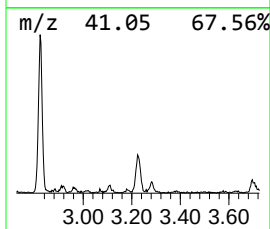
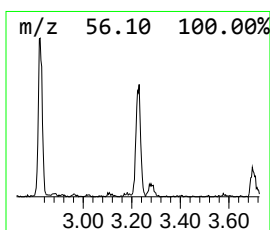
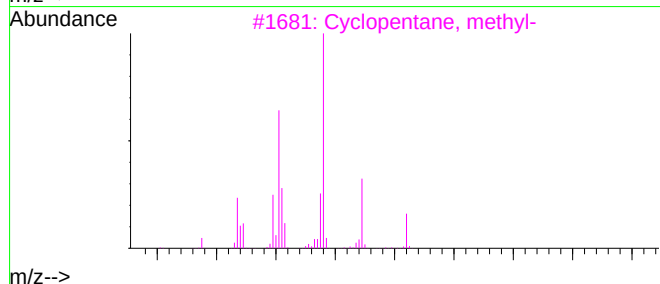
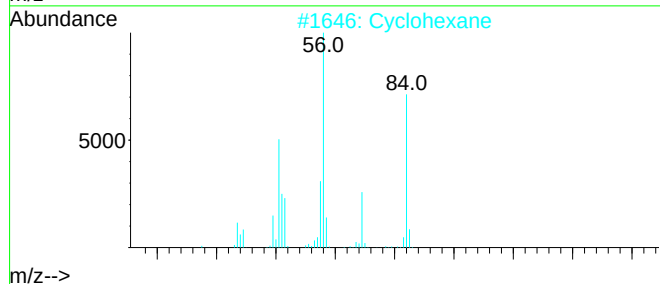
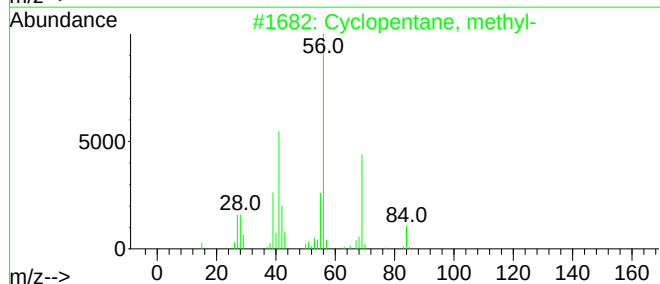
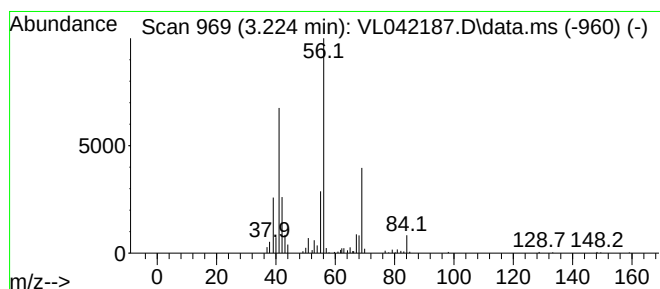
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

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

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Peak Number 5 Cyclopentane, methyl- Concentration Rank 4

| R.T.      | EstConc               | Area   | Relative to ISTD   | R.T.        |      |
|-----------|-----------------------|--------|--------------------|-------------|------|
| 3.224     | 1.41 ppbv             | 101212 | Bromochloromethane | 2.784       |      |
| Hit# of 5 | Tentative ID          | MW     | MolForm            | CAS#        | Qual |
| 1         | Cyclopentane, methyl- | 84     | C6H12              | 000096-37-7 | 78   |
| 2         | Cyclohexane           | 84     | C6H12              | 000110-82-7 | 78   |
| 3         | Cyclopentane, methyl- | 84     | C6H12              | 000096-37-7 | 78   |
| 4         | Cyclopropane, propyl- | 84     | C6H12              | 002415-72-7 | 64   |
| 5         | Cyclohexane           | 84     | C6H12              | 000110-82-7 | 64   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042187.D  
Acq On : 27 Mar 2025 19:36  
Operator : SY/MD  
Sample : Q1669-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

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

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

| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|--------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                    |       |         |       |          | #                     | RT    | Resp   | Conc |
| Butane             | 1.618 | 1.1     | ppbv  | 78959    | 1                     | 2.784 | 719172 | 10.0 |
| Pentane            | 1.962 | 2.2     | ppbv  | 159501   | 1                     | 2.784 | 719172 | 10.0 |
| Pentane, 2-methyl- | 2.473 | 3.0     | ppbv  | 219624   | 1                     | 2.784 | 719172 | 10.0 |
| Pentane, 3-methyl- | 2.622 | 1.8     | ppbv  | 128445   | 1                     | 2.784 | 719172 | 10.0 |
| Cyclopentane, m... | 3.224 | 1.4     | ppbv  | 101212   | 1                     | 2.784 | 719172 | 10.0 |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | AA-1-3262025                                    | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-04                                        | 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 |
| VL042188.D        | 1         |           | 03/27/25 20:12 | VL032725      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.40          | 1.98           | 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         | 0.22          | 1.24           | 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                        | 3.20          | 7.60           |           | 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             | 0.78          | 2.71           |           | 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                     | 0.24          | 0.71           | 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                        | 0.31          | 0.99           | J         | 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                        | 0.31          | 1.17           | 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:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | AA-1-3262025                                    | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-04                                        | 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 |
| VL042188.D        | 1         |           | 03/27/25 20:12 | VL032725      |

| 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                    | 1.70          | 5.99           |           | 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   | 9.90          |                |           | 70 (65) - 130 (135) | 99%        | SPK: 10 |
| <b>INTERNAL STANDARDS</b>             |                           |               |                |           |                     |            |         |
| 74-97-5                               | Bromochloromethane        | 186000        |                | 2.787     |                     |            |         |
| 540-36-3                              | 1,4-Difluorobenzene       | 530000        |                | 3.955     |                     |            |         |
| 3114-55-4                             | Chlorobenzene-d5          | 475000        |                | 8.878     |                     |            |         |
| <b>TENTATIVE IDENTIFIED COMPOUNDS</b> |                           |               |                |           |                     |            |         |
| 75-45-6                               | Chlorodifluoromethane     | 0.26          |                | J         |                     | 1.47       | ppbv    |
| 115-07-1                              | Propene                   | 0.42          |                | J         |                     | 1.49       | ppbv    |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/27/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | AA-1-3262025                                    | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-04                                        | 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 |
| VL042188.D        | 1         |           | 03/27/25 20:12 | VL032725      |

| CAS Number  | Parameter          | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|-------------|--------------------|---------------|----------------|-----------|-----|------------|-------|
| 000107-83-5 | Pentane, 2-methyl- | 1.20          |                | J         |     | 2.47       | ppbv  |

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\VL032725\  
 Data File : VL042188.D  
 Acq On : 27 Mar 2025 20:12  
 Operator : SY/MD  
 Sample : Q1669-04  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AA-1-3262025

Quant Time: Mar 28 02:16:44 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 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.787  | 49    | 185847   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.955  | 114   | 529516   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.878  | 117   | 474604   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 386837   | 9.925    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 99.300%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.496  | 85    | 10856    | 0.396    | ppbv   | 94       |
| 3) Chlorodifluoromethane    | 1.473  | 51    | 7173m    | 0.256    | ppbv   |          |
| 4) Chloromethane            | 1.531  | 50    | 5306     | 0.473    | ppbv   | 100      |
| 9) Propene                  | 1.486  | 41    | 5401m    | 0.420    | ppbv   |          |
| 11) Trichlorofluoromethane  | 1.878  | 101   | 5846     | 0.219    | ppbv   | 95       |
| 13) Ethanol                 | 1.719  | 45    | 15071    | 12.408   | ppbv   | 93       |
| 15) Acetone                 | 1.836  | 43    | 83691    | 3.220    | ppbv   | 92       |
| 20) Methylene Chloride      | 2.059  | 84    | 7575     | 0.783    | ppbv   | 85       |
| 26) Hexane                  | 2.823  | 57    | 44184    | 1.696    | ppbv # | 33       |
| 34) 2-Butanone              | 2.564  | 43    | 9069     | 0.236    | ppbv   | 98       |
| 35) Carbon Tetrachloride    | 3.758  | 117   | 2713m    | 0.066    | ppbv   |          |
| 36) Benzene                 | 3.651  | 78    | 16130    | 0.307    | ppbv # | 93       |
| 53) Toluene                 | 6.930  | 91    | 19259    | 0.309    | ppbv   | 97       |
| 59) m/p-Xylene              | 9.529  | 91    | 8368m    | 0.124    | ppbv   |          |

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

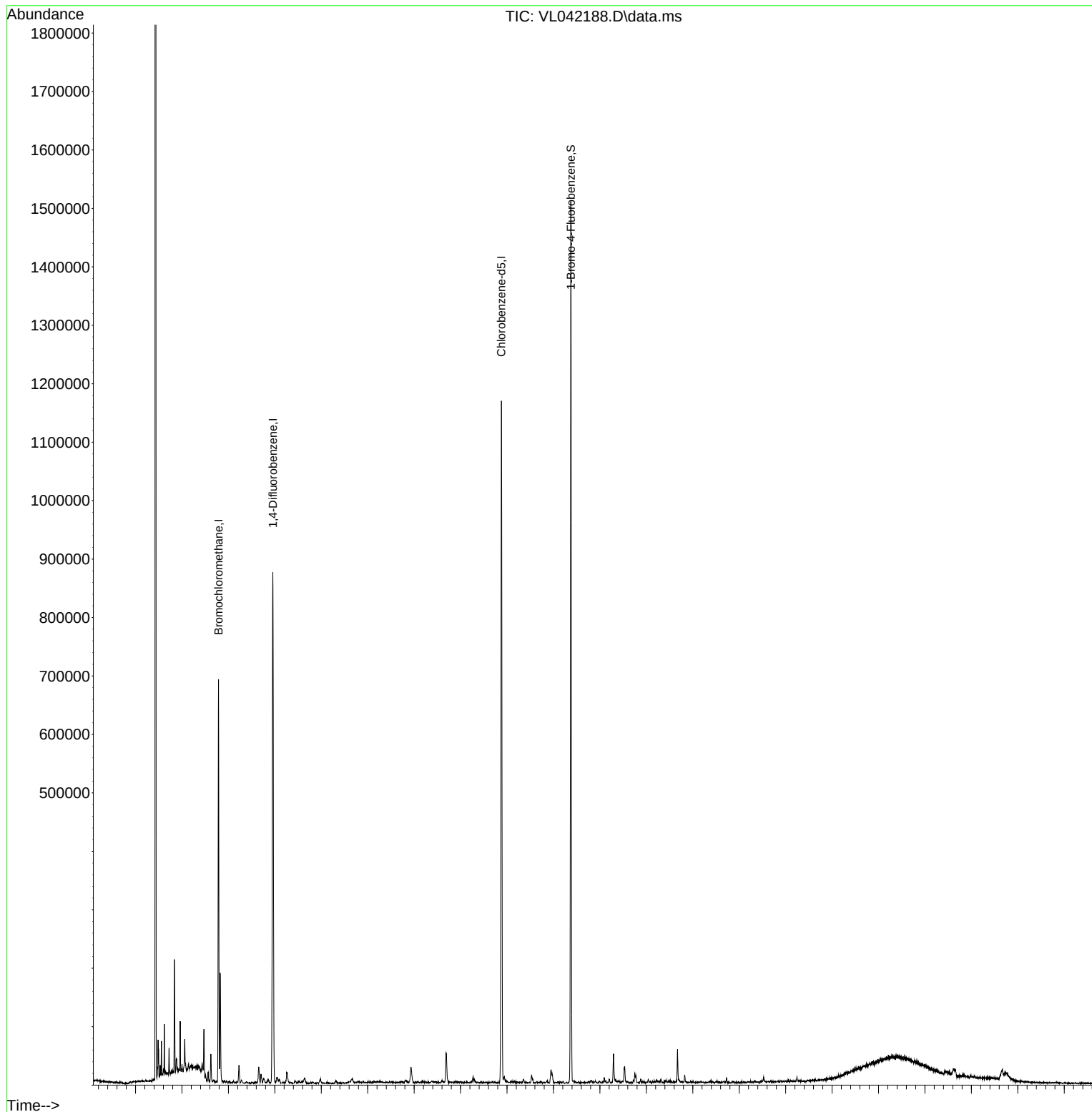
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Data File : VL042188.D  
Acq On : 27 Mar 2025 20:12  
Operator : SY/MD  
Sample : Q1669-04  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

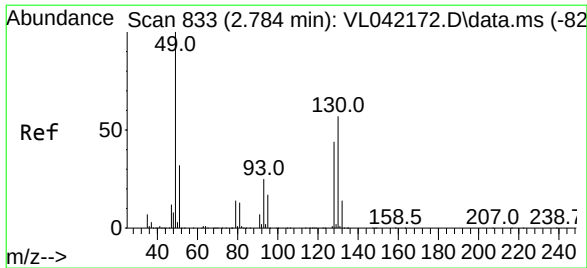
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

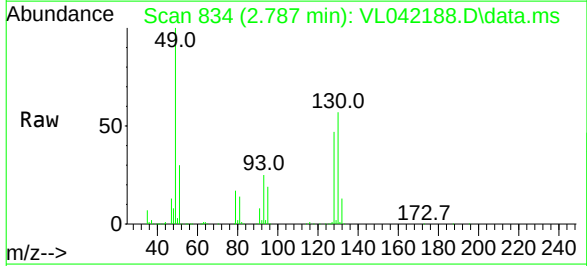
Quant Time: Mar 28 02:16:44 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 83  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

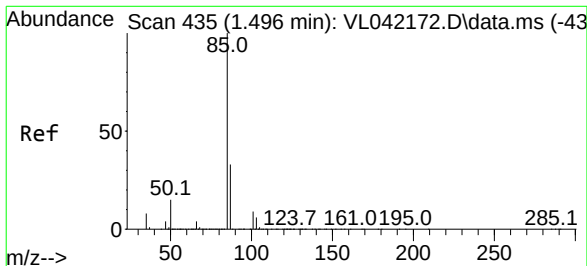
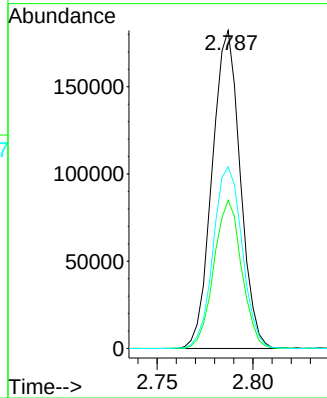
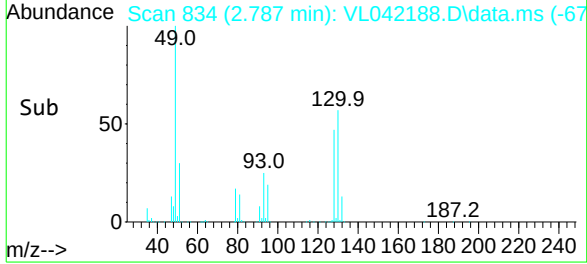
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025



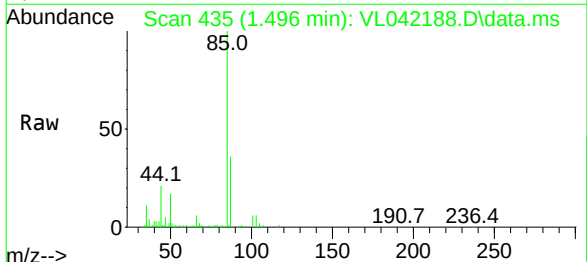
Tgt Ion: 49 Resp: 185847  
Ion Ratio Lower Upper  
49 100  
128 46.1 22.9 68.5  
130 59.0 28.8 86.4

Manual Integrations  
APPROVED

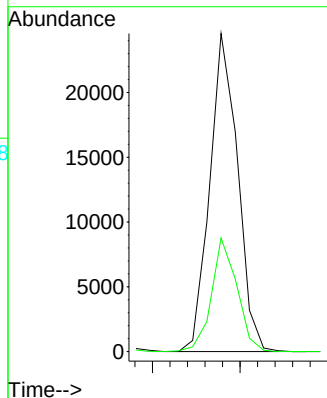
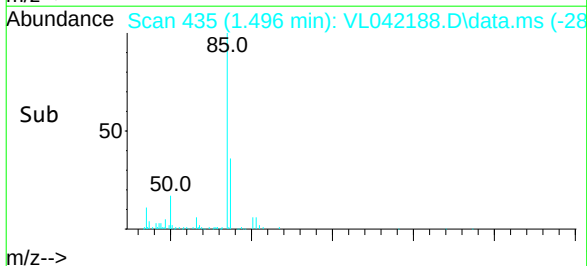
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

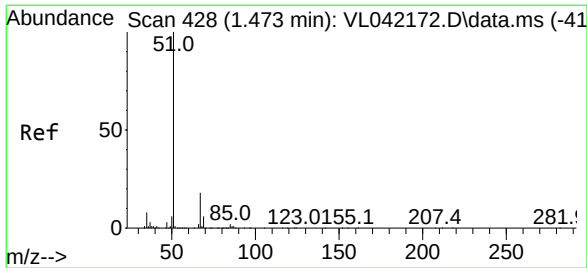


#2  
Dichlorodifluoromethane  
Concen: 0.396 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12



Tgt Ion: 85 Resp: 10856  
Ion Ratio Lower Upper  
85 100  
87 35.7 26.1 39.1





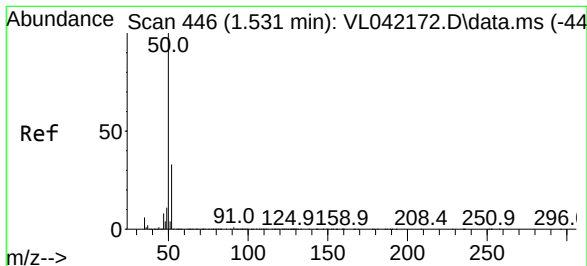
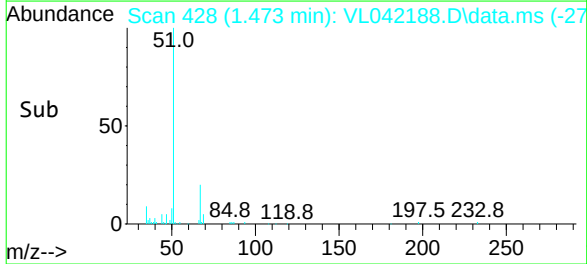
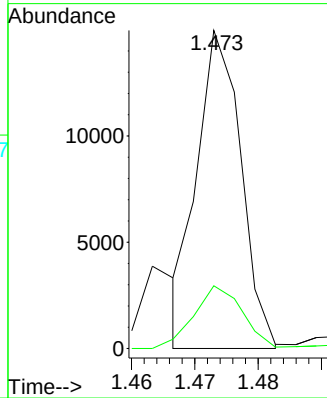
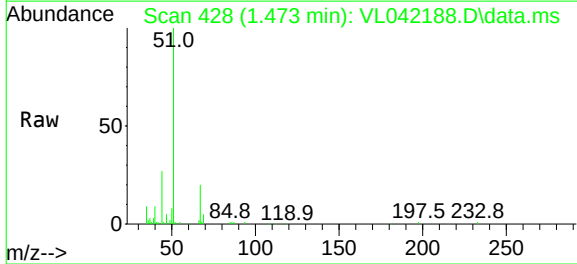
#3  
Chlorodifluoromethane  
Concen: 0.256 ppbv m  
RT: 1.473 min Scan# 428  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

Tgt Ion: 51 Resp: 7173  
Ion Ratio Lower Upper  
51 100  
67 27.4 15.0 22.6#

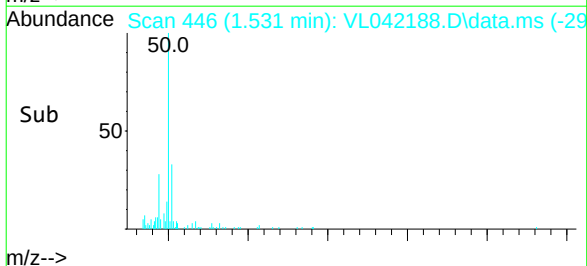
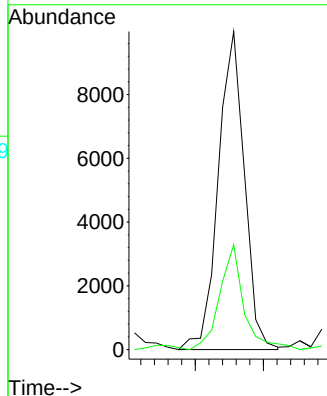
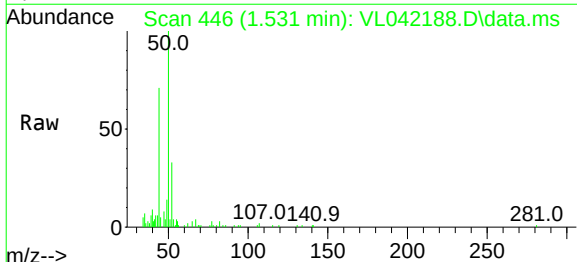
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

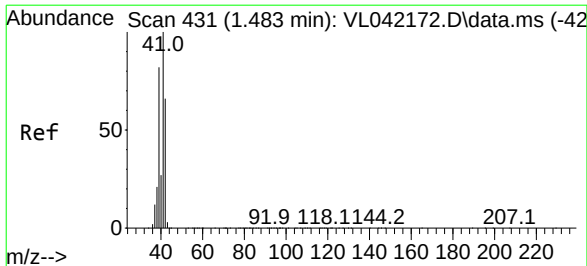


#4  
Chloromethane  
Concen: 0.473 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

Tgt Ion: 50 Resp: 5306  
Ion Ratio Lower Upper  
50 100  
52 32.6 26.1 39.1

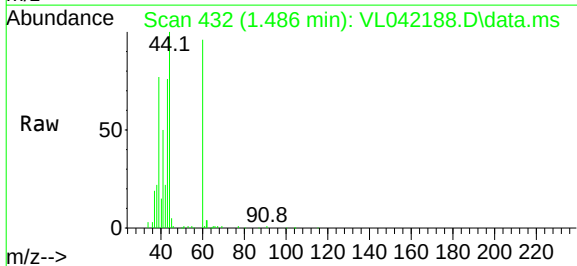






#9  
Propene  
Concen: 0.420 ppbv m  
RT: 1.486 min Scan# 431  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

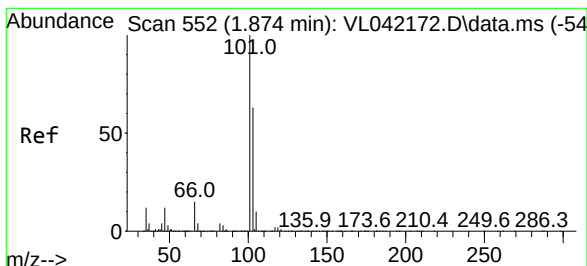
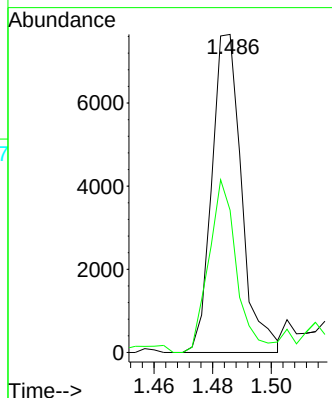
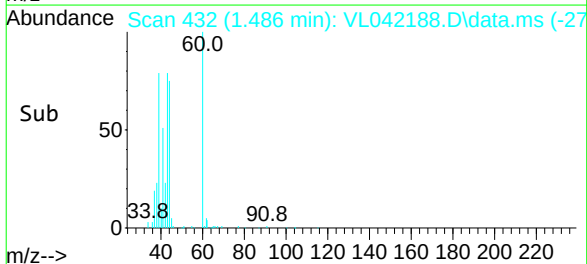
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025



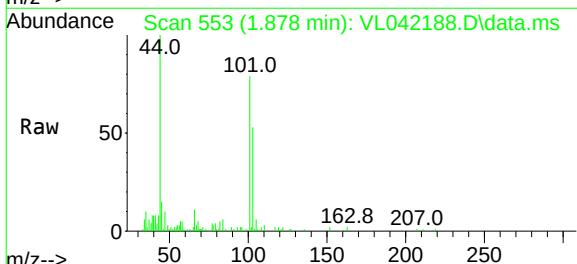
Tgt Ion: 41 Resp: 5401  
Ion Ratio Lower Upper  
41 100  
42 26.7 55.4 83.2#

Manual Integrations  
APPROVED

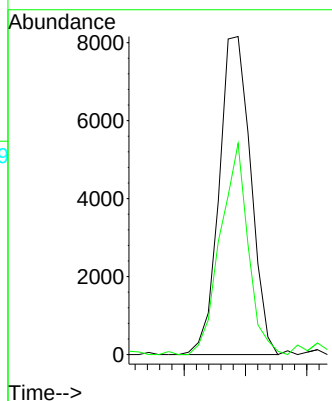
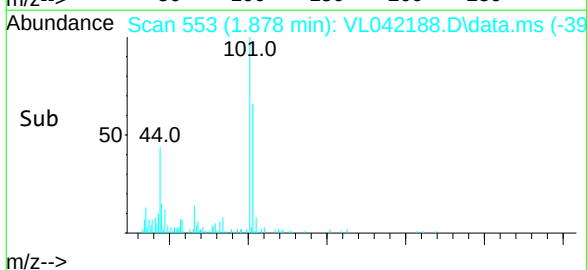
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

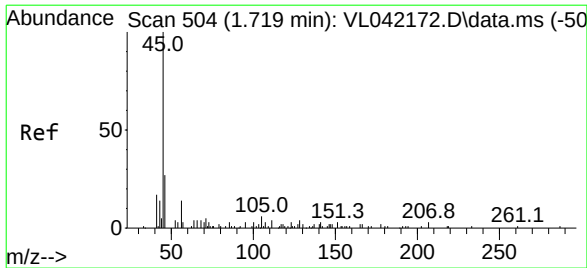


#11  
Trichlorofluoromethane  
Concen: 0.219 ppbv  
RT: 1.878 min Scan# 553  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12



Tgt Ion:101 Resp: 5846  
Ion Ratio Lower Upper  
101 100  
103 66.4 50.2 75.2





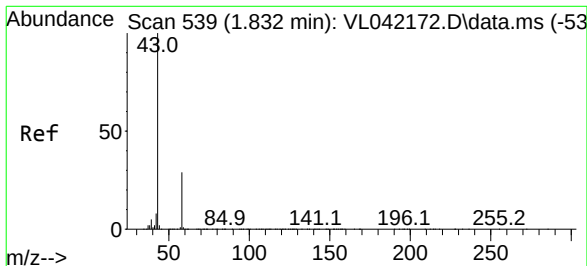
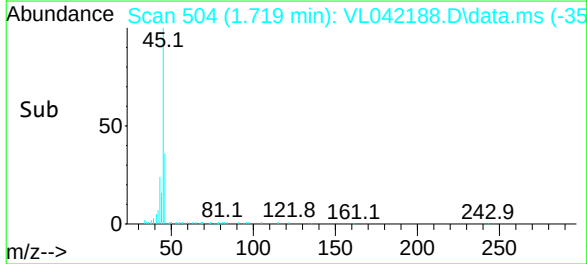
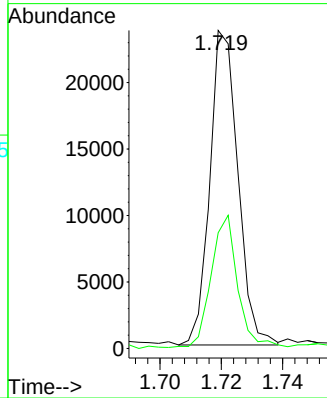
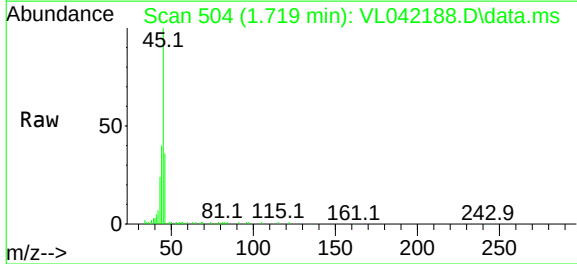
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Ethanol  
Concen: 12.408 ppbv  
RT: 1.719 min Scan# 50  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

Tgt Ion: 45 Resp: 15071  
Ion Ratio Lower Upper  
45 100  
46 45.5 20.2 80.8

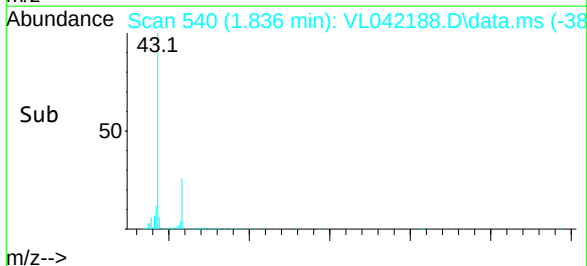
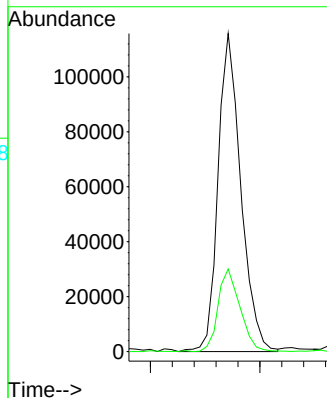
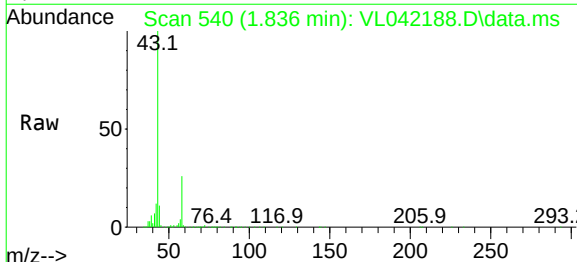
Manual Integrations  
APPROVED

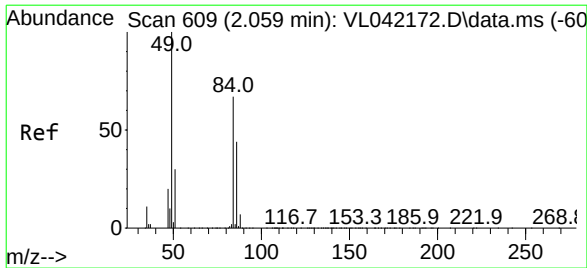
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#15  
Acetone  
Concen: 3.220 ppbv  
RT: 1.836 min Scan# 540  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

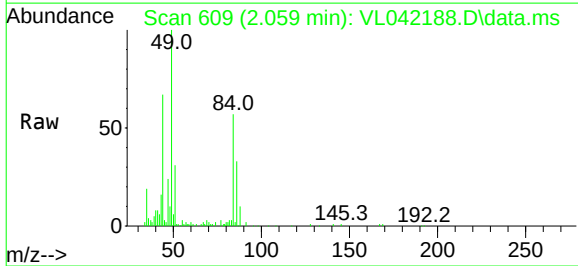
Tgt Ion: 43 Resp: 83691  
Ion Ratio Lower Upper  
43 100  
58 24.7 23.2 34.8





#20  
Methylene Chloride  
Concen: 0.783 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

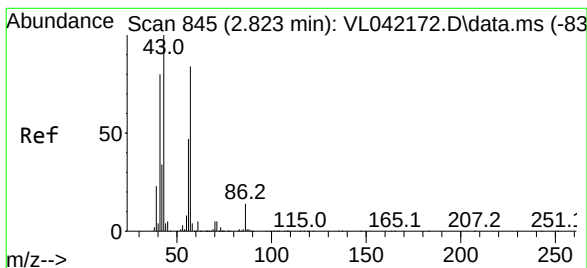
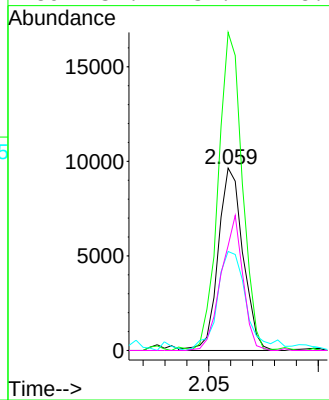
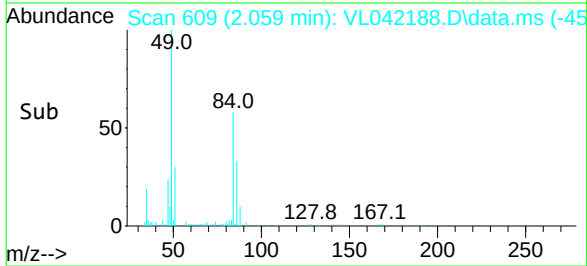
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025



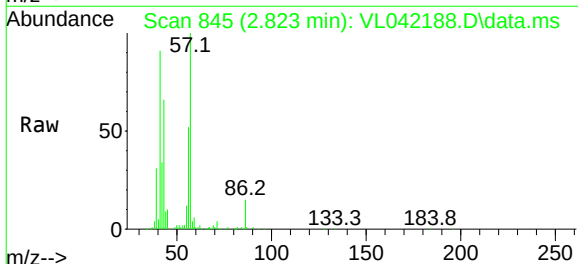
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 173.6 | 120.2 | 180.4 |
| 51      | 53.1  | 37.4  | 56.0  |
| 86      | 57.4  | 52.4  | 78.6  |

Manual Integrations  
APPROVED

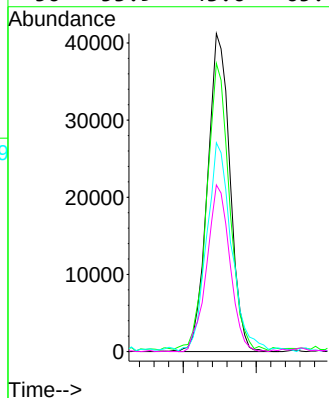
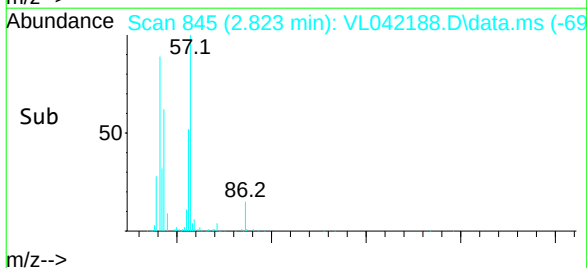
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

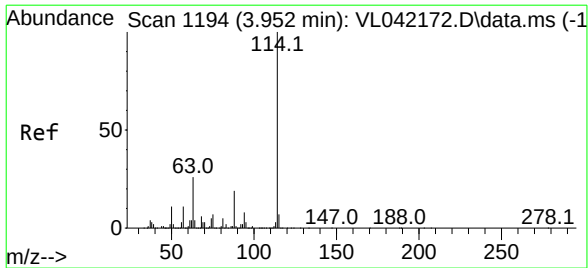


#26  
Hexane  
Concen: 1.696 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12



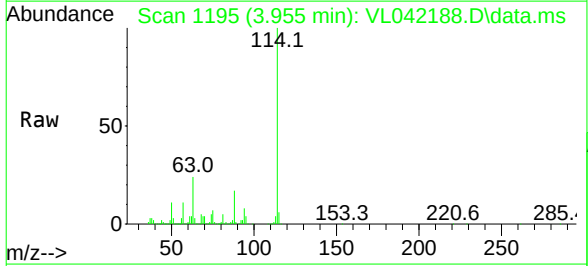
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 57      | 100   |       |        |
| 41      | 91.3  | 76.6  | 114.8  |
| 43      | 74.7  | 207.8 | 311.8# |
| 56      | 53.9  | 43.6  | 65.4   |





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.955 min Scan# 1195  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

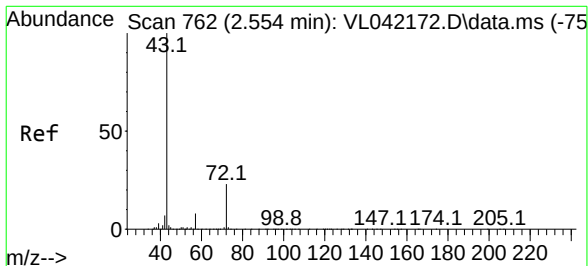
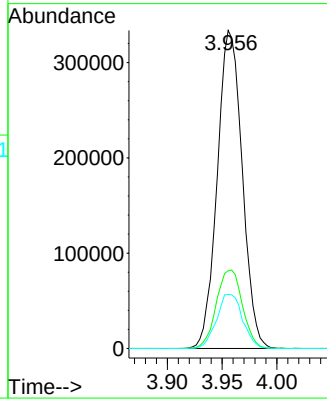
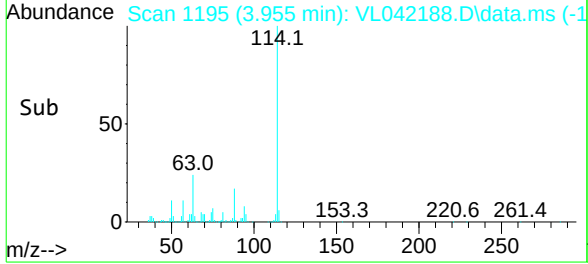
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025



Tgt Ion: 114 Resp: 529516  
Ion Ratio Lower Upper  
114 100  
63 25.8 20.7 31.1  
88 17.8 15.0 22.4

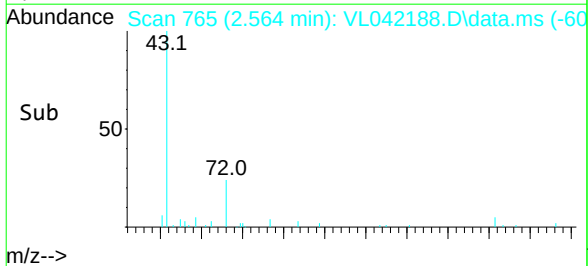
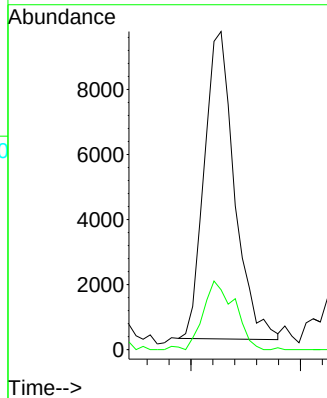
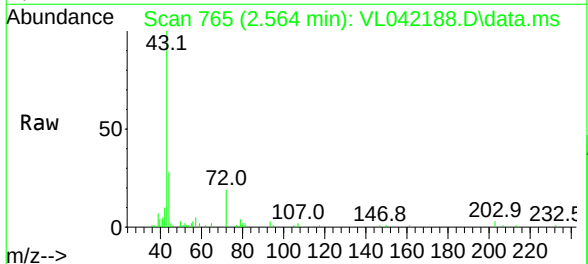
Manual Integrations  
APPROVED

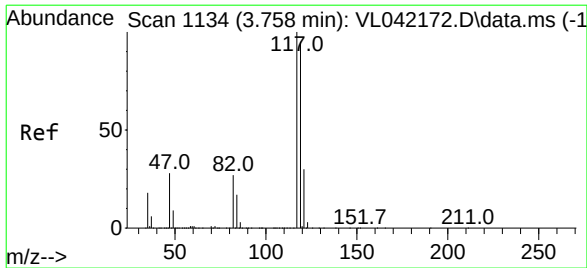
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#34  
2-Butanone  
Concen: 0.236 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.010 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

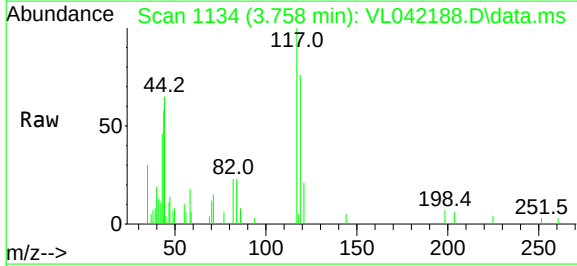
Tgt Ion: 43 Resp: 9069  
Ion Ratio Lower Upper  
43 100  
72 23.6 18.2 27.2





#35  
Carbon Tetrachloride  
Concen: 0.066 ppbv m  
RT: 3.758 min Scan# 1134  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

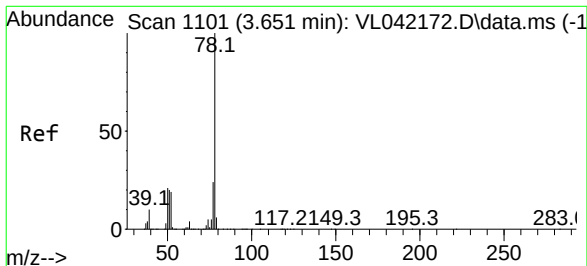
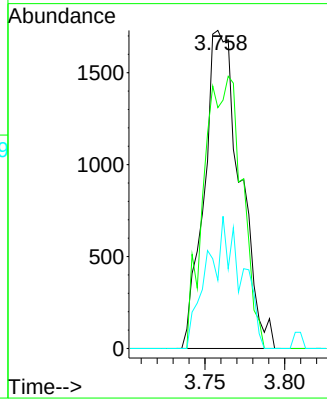
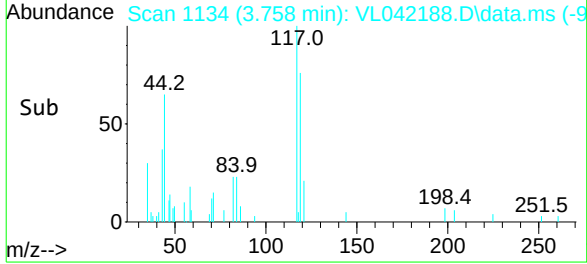
Instrument : MSVOA\_L  
ClientSampleId : AA-1-3262025



Tgt Ion: 117 Resp: 2713  
Ion Ratio Lower Upper  
117 100  
119 75.7 76.2 114.2#  
121 21.4 24.2 36.4#

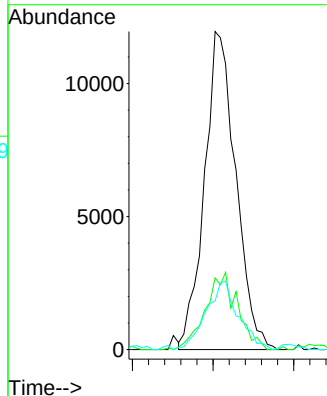
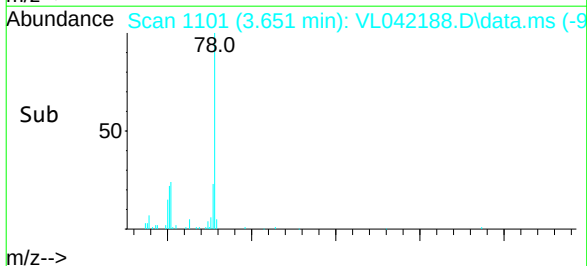
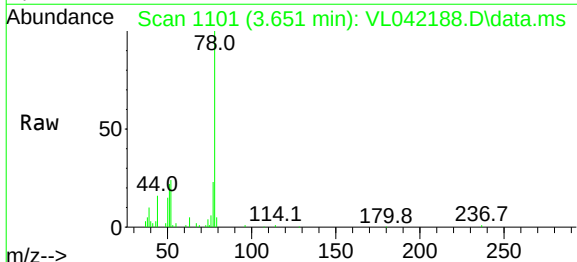
Manual Integrations  
APPROVED

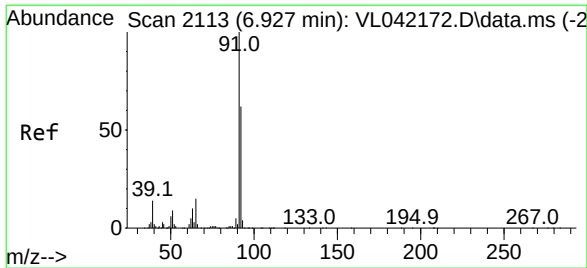
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#36  
Benzene  
Concen: 0.307 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

Tgt Ion: 78 Resp: 16130  
Ion Ratio Lower Upper  
78 100  
77 22.6 19.1 28.7  
50 14.8 16.6 24.8#





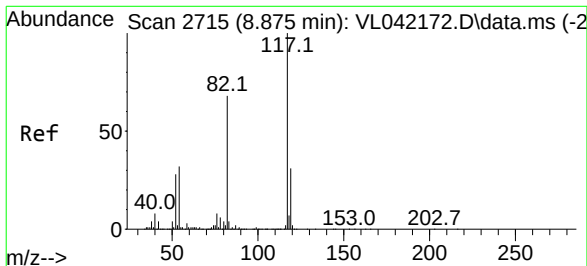
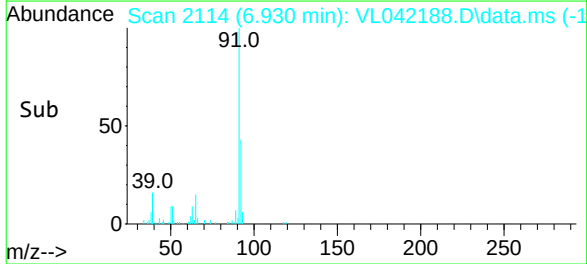
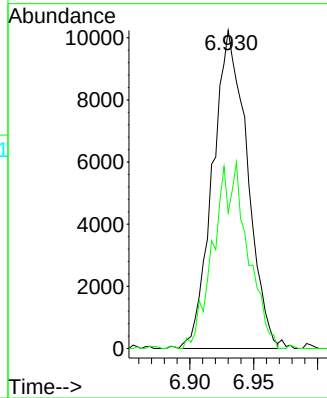
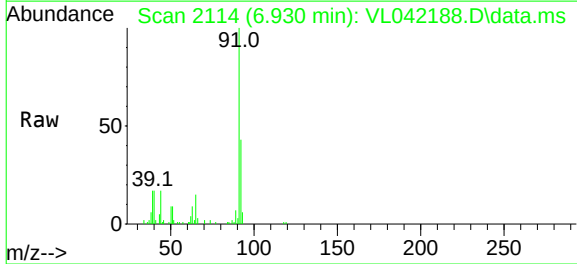
#53  
Toluene  
Concen: 0.309 ppbv  
RT: 6.930 min Scan# 2113  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

Tgt Ion: 91 Resp: 19259  
Ion Ratio Lower Upper  
91 100  
92 58.4 48.4 72.6

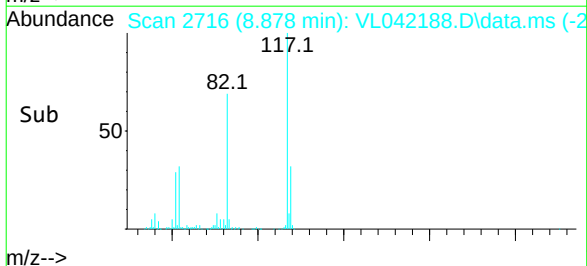
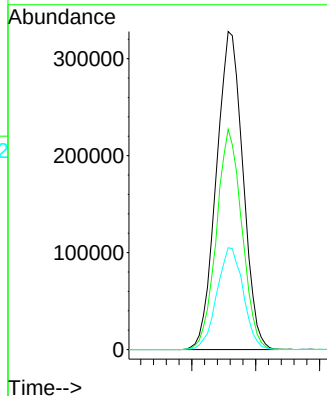
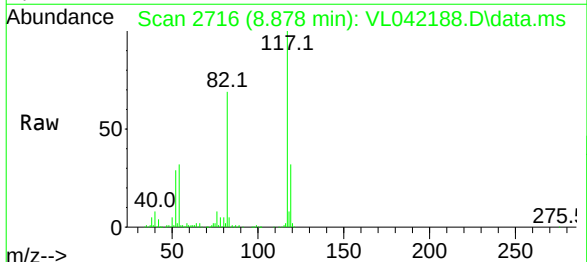
Manual Integrations  
APPROVED

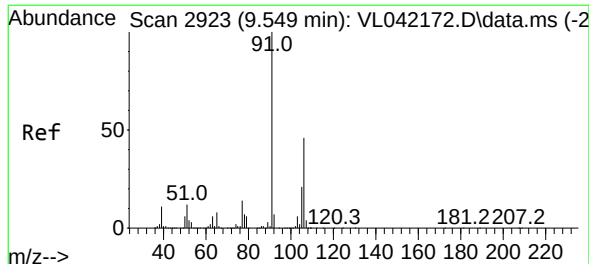
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 2716  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

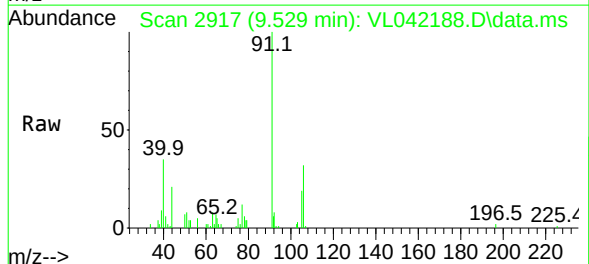
Tgt Ion:117 Resp: 474604  
Ion Ratio Lower Upper  
117 100  
82 66.3 55.8 83.6  
119 31.6 25.5 38.3





#59  
m/p-Xylene  
Concen: 0.124 ppbv m  
RT: 9.529 min Scan# 2917  
Delta R.T. -0.020 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

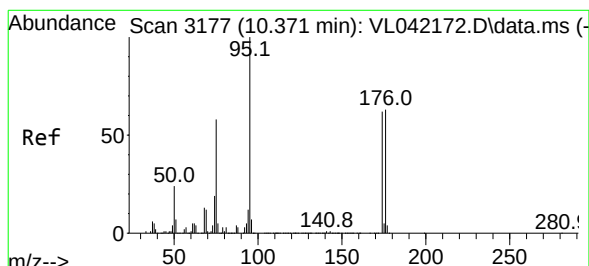
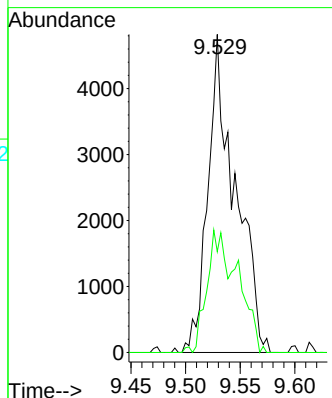
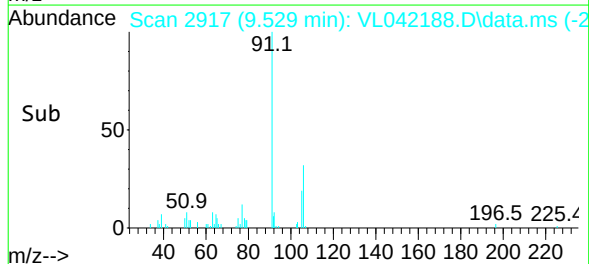
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025



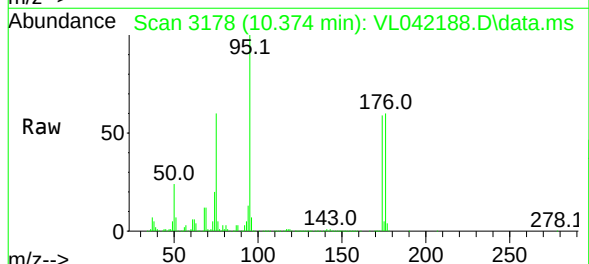
Tgt Ion: 91 Resp: 8368  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.4 54.6

Manual Integrations  
APPROVED

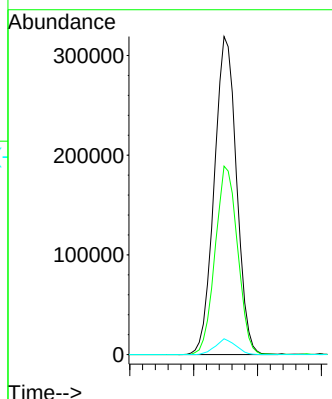
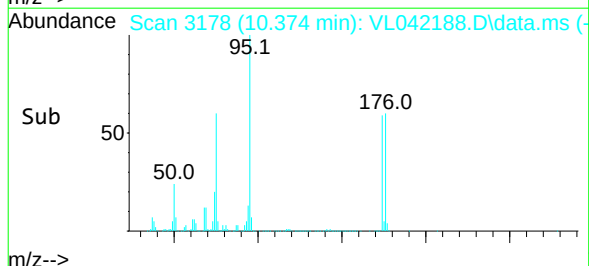
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.925 ppbv  
RT: 10.374 min Scan# 3178  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12



Tgt Ion: 95 Resp: 386837  
Ion Ratio Lower Upper  
95 100  
174 59.7 50.6 76.0  
175 4.6 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042188.D  
Acq On : 27 Mar 2025 20:12  
Operator : SY/MD  
Sample : Q1669-04  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

Signal : TIC: VL042188.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.428       | 409           | 414         | 420          | rBV      | 4220977        | 4629360       | 100.00%         | 41.257%       |
| 2         | 1.619       | 470           | 473         | 477          | rVB      | 87489          | 46885         | 1.01%           | 0.418%        |
| 3         | 1.836       | 536           | 540         | 547          | rBV2     | 194106         | 170597        | 3.69%           | 1.520%        |
| 4         | 1.962       | 574           | 579         | 585          | rVB2     | 86548          | 62886         | 1.36%           | 0.560%        |
| 5         | 2.059       | 598           | 609         | 614          | rBV3     | 56209          | 63420         | 1.37%           | 0.565%        |
| 6         | 2.473       | 731           | 737         | 743          | rVB2     | 83011          | 82786         | 1.79%           | 0.738%        |
| 7         | 2.622       | 776           | 783         | 792          | rVB3     | 48010          | 54745         | 1.18%           | 0.488%        |
| 8         | 2.787       | 826           | 834         | 840          | rBV      | 689292         | 711374        | 15.37%          | 6.340%        |
| 9         | 2.823       | 840           | 845         | 858          | rVB      | 187064         | 209703        | 4.53%           | 1.869%        |
| 10        | 3.956       | 1181          | 1195        | 1209         | rBV      | 873697         | 1392046       | 30.07%          | 12.406%       |
| 11        | 6.933       | 2101          | 2115        | 2128         | rBV3     | 26317          | 59254         | 1.28%           | 0.528%        |
| 12        | 7.687       | 2337          | 2348        | 2362         | rBV4     | 51100          | 93076         | 2.01%           | 0.829%        |
| 13        | 8.878       | 2704          | 2716        | 2727         | rBV      | 1167127        | 1689423       | 36.49%          | 15.056%       |
| 14        | 10.374      | 3164          | 3178        | 3191         | rBV      | 1507802        | 1829446       | 39.52%          | 16.304%       |
| 15        | 11.296      | 3454          | 3463        | 3472         | rBV3     | 49151          | 67119         | 1.45%           | 0.598%        |
| 16        | 12.672      | 3881          | 3888        | 3895         | rBV      | 55551          | 58627         | 1.27%           | 0.522%        |

Sum of corrected areas: 11220747

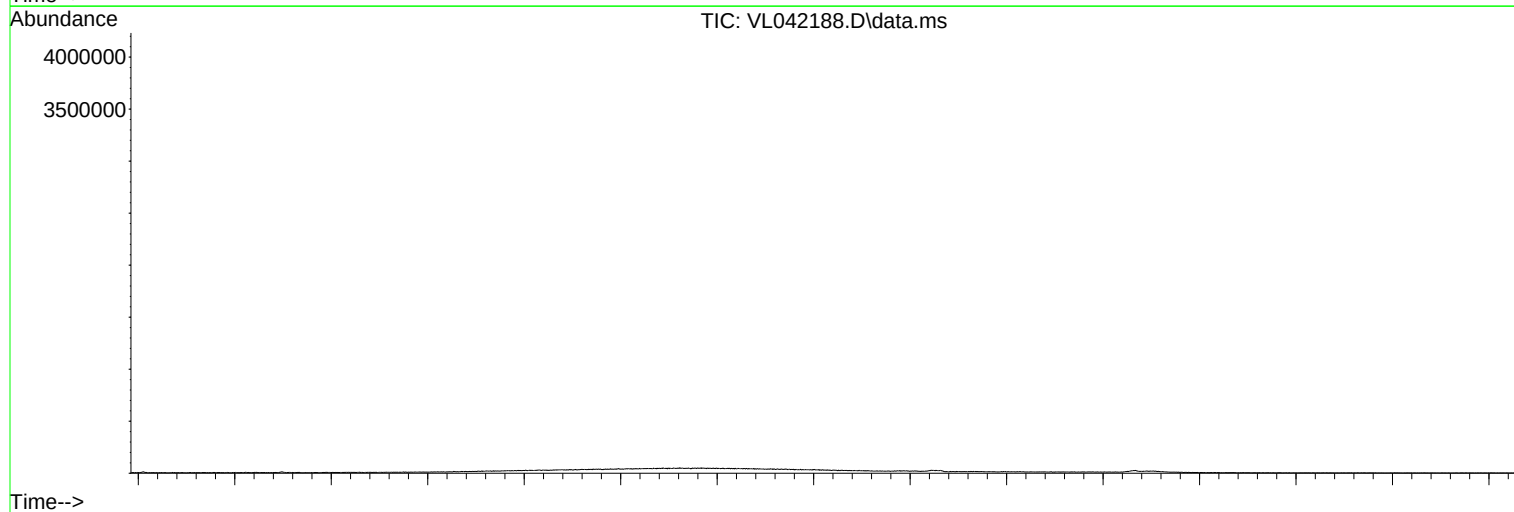
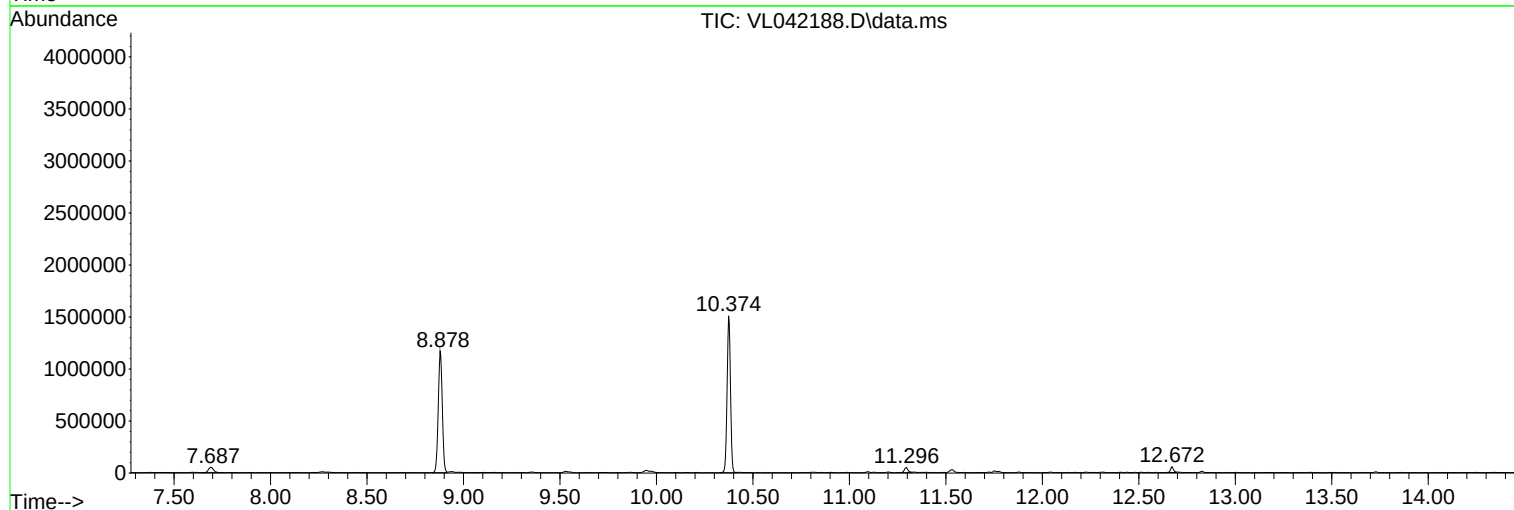
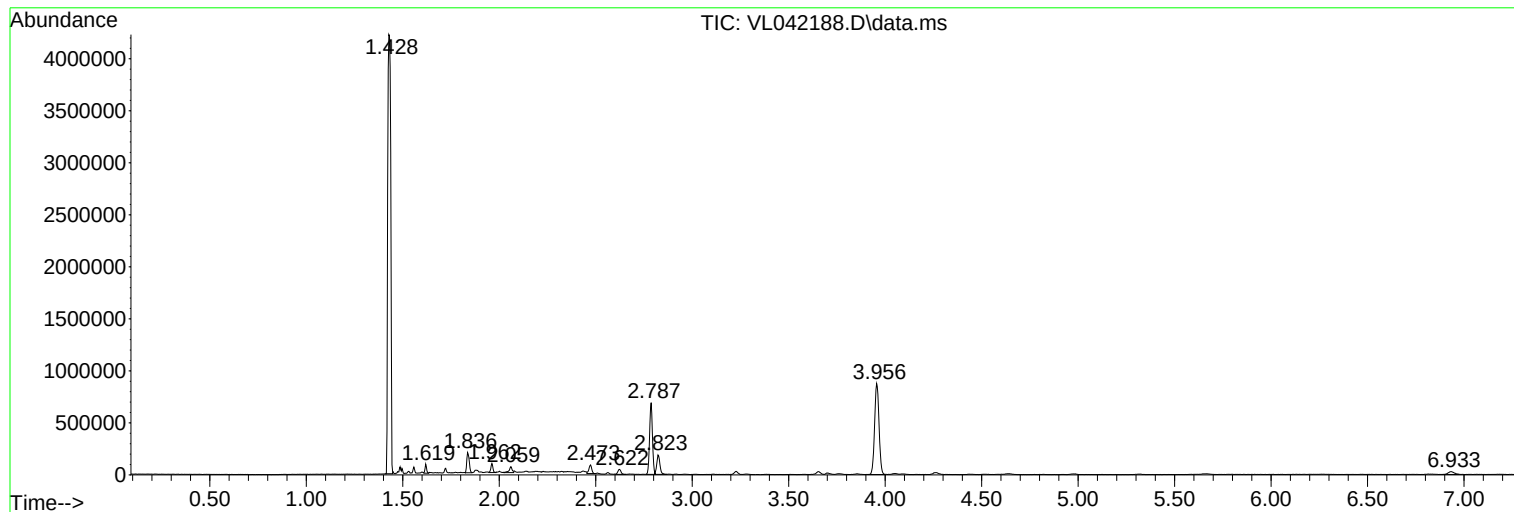


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042188.D  
Acq On : 27 Mar 2025 20:12  
Operator : SY/MD  
Sample : Q1669-04  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042188.D  
Acq On : 27 Mar 2025 20:12  
Operator : SY/MD  
Sample : Q1669-04  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

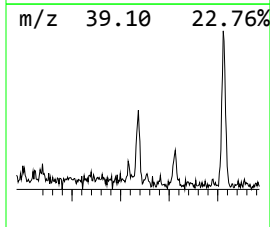
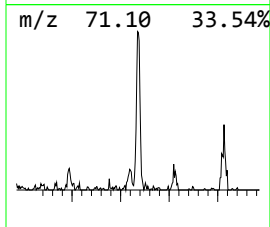
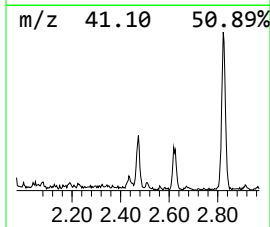
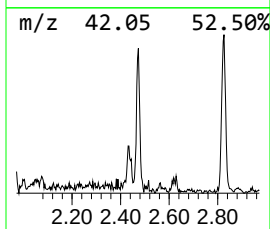
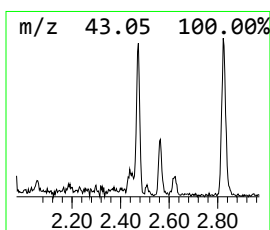
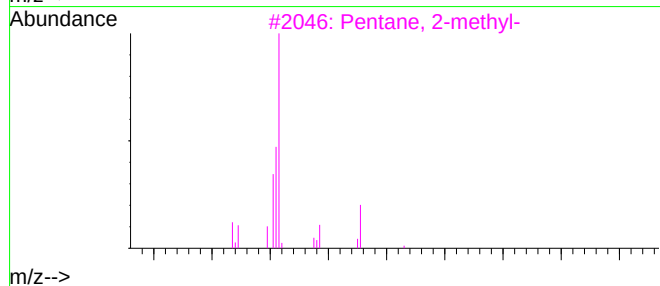
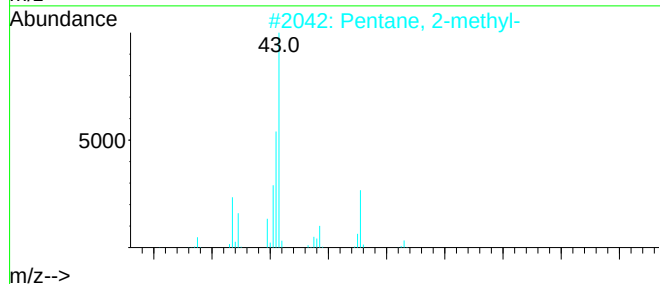
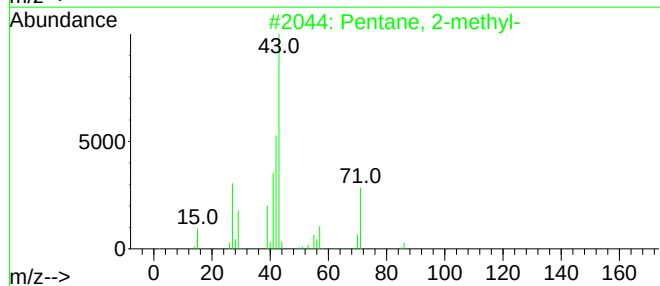
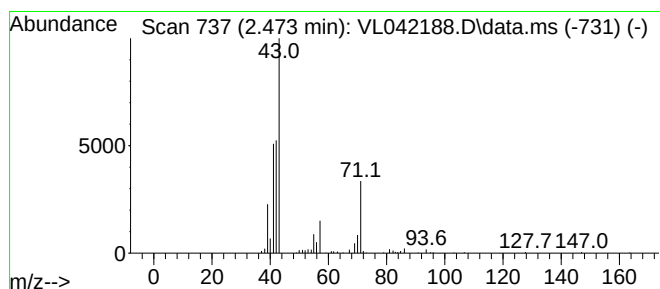
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

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

\*\*\*\*\*

Peak Number 1 Pentane, 2-methyl- Concentration Rank 1

| R.T.      | EstConc            | Area  | Relative to ISTD   | R.T.        |      |
|-----------|--------------------|-------|--------------------|-------------|------|
| 2.473     | 1.16 ppbv          | 82786 | Bromochloromethane | 2.787       |      |
| Hit# of 5 | Tentative ID       | MW    | MolForm            | CAS#        | Qual |
| 1         | Pentane, 2-methyl- | 86    | C6H14              | 000107-83-5 | 86   |
| 2         | Pentane, 2-methyl- | 86    | C6H14              | 000107-83-5 | 86   |
| 3         | Pentane, 2-methyl- | 86    | C6H14              | 000107-83-5 | 86   |
| 4         | Pentane, 2-methyl- | 86    | C6H14              | 000107-83-5 | 64   |
| 5         | Pentane, 2-methyl- | 86    | C6H14              | 000107-83-5 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042188.D  
Acq On : 27 Mar 2025 20:12  
Operator : SY/MD  
Sample : Q1669-04  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

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

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

| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|--------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                    |       |         |       |          | #                     | RT    | Resp   | Conc |
| Pentane, 2-methyl- | 2.473 | 1.2     | ppbv  | 82786    | 1                     | 2.787 | 711374 | 10.0 |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-B16-3-3262025                              | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-05                                        | 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 |
| VL042197.D        | 1         |           | 03/28/25 01:20 | VL032725      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.43          | 2.13           | J         | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.36          | 0.74           | 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                | 0.41          | 1.21           | J         | 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                        | 0.40          | 1.64           | J         | 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                        | 6.20          | 14.7           |           | 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             | 0.74          | 2.57           |           | 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                    | 0.40          | 1.38           | J         | 0.76  | 1.72       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 2.90          | 8.55           |           | 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                     | 0.60          | 2.93           |           | 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         | 0.39          | 1.82           | J         | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 0.55          | 1.76           |           | 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                        | 2.10          | 7.91           |           | 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:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-B16-3-3262025                              | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-05                                        | 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 |
| VL042197.D        | 1         |           | 03/28/25 01:20 | VL032725      |

| 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         | 0.040         | 0.27           |           | 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             | 0.27          | 1.17           | J         | 0.52  | 2.17       | ug/m3 |
| 179601-23-1 | m/p-Xylene                | 1.00          | 4.34           |           | 0.91  | 4.34       | ug/m3 |
| 95-47-6     | o-Xylene                  | 0.36          | 1.56           | J         | 0.52  | 2.17       | ug/m3 |
| 100-42-5    | Styrene                   | 0.36          | 1.53           | J         | 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    | 0.26          | 1.28           | 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                    | 1.90          | 6.70           |           | 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 |

### SURROGATES

|          |                         |      |  |                     |      |         |
|----------|-------------------------|------|--|---------------------|------|---------|
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.1 |  | 70 (65) - 130 (135) | 101% | SPK: 10 |
|----------|-------------------------|------|--|---------------------|------|---------|

### INTERNAL STANDARDS

|           |                     |        |       |
|-----------|---------------------|--------|-------|
| 74-97-5   | Bromochloromethane  | 173000 | 2.79  |
| 540-36-3  | 1,4-Difluorobenzene | 494000 | 3.965 |
| 3114-55-4 | Chlorobenzene-d5    | 445000 | 8.885 |

### TENTATIVE IDENTIFIED COMPOUNDS

|             |                       |      |   |      |      |
|-------------|-----------------------|------|---|------|------|
| 75-45-6     | Chlorodifluoromethane | 0.28 | J | 1.48 | ppbv |
| 115-07-1    | Propene               | 0.63 | J | 1.49 | ppbv |
| 000106-97-8 | Butane                | 14.6 | J | 1.62 | ppbv |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-B16-3-3262025                              | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-05                                        | 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 |
| VL042197.D        | 1         |           | 03/28/25 01:20 | VL032725      |

| CAS Number  | Parameter             | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|-------------|-----------------------|---------------|----------------|-----------|-----|------------|-------|
| 000109-66-0 | Pentane               | 5.70          |                | J         |     | 1.97       | ppbv  |
|             | unknown2.441          | 1.20          |                | J         |     | 2.44       | ppbv  |
| 000107-83-5 | Pentane, 2-methyl-    | 3.90          |                | J         |     | 2.48       | ppbv  |
| 000096-14-0 | Pentane, 3-methyl-    | 2.00          |                | J         |     | 2.63       | ppbv  |
| 000096-37-7 | Cyclopentane, methyl- | 1.60          |                | J         |     | 3.23       | ppbv  |
| 000124-18-5 | Decane                | 1.10          |                | J         |     | 11.8       | ppbv  |

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\VL032725\  
 Data File : VL042197.D  
 Acq On : 28 Mar 2025 01:20  
 Operator : SY/MD  
 Sample : Q1669-05  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-B16-3-3262025

Quant Time: Mar 28 23:03:06 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Mar 28 02:00:52 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       | 2.790  | 49    | 172645   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.965  | 114   | 493948   | 10.000   | ppbv       | 0.01     |
| 55) Chlorobenzene-d5        | 8.885  | 117   | 445312   | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 368899   | 10.088   | ppbv       | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | = 100.900% |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane  | 1.499  | 85    | 10972    | 0.430    | ppbv       | 92       |
| 3) Chlorodifluoromethane    | 1.476  | 51    | 7213m    | 0.277    | ppbv       |          |
| 4) Chloromethane            | 1.531  | 50    | 3716     | 0.357    | ppbv       | 99       |
| 9) Propene                  | 1.486  | 41    | 7546m    | 0.632    | ppbv       |          |
| 10) Heptane                 | 4.985  | 43    | 12702    | 0.400    | ppbv       | 91       |
| 11) Trichlorofluoromethane  | 1.881  | 101   | 5673     | 0.229    | ppbv       | 99       |
| 13) Ethanol                 | 1.722  | 45    | 56814    | 50.352   | ppbv       | 81       |
| 15) Acetone                 | 1.842  | 43    | 149738m  | 6.202    | ppbv       |          |
| 20) Methylene Chloride      | 2.065  | 84    | 6666     | 0.741    | ppbv       | 95       |
| 26) Hexane                  | 2.829  | 57    | 45421    | 1.876    | ppbv #     | 34       |
| 29) Chloroform              | 2.852  | 83    | 21281    | 0.601    | ppbv       | 99       |
| 30) Cyclohexane             | 3.858  | 84    | 8428m    | 0.401    | ppbv       |          |
| 34) 2-Butanone              | 2.564  | 43    | 104671   | 2.922    | ppbv       | 96       |
| 35) Carbon Tetrachloride    | 3.761  | 117   | 2542m    | 0.066    | ppbv       |          |
| 36) Benzene                 | 3.658  | 78    | 26954    | 0.550    | ppbv       | 97       |
| 41) Tetrahydrofuran         | 3.065  | 42    | 8525m    | 0.413    | ppbv       |          |
| 44) 2,2,4-Trimethylpentane  | 4.648  | 57    | 32093    | 0.388    | ppbv #     | 76       |
| 52) Tetrachloroethene       | 8.225  | 164   | 690m     | 0.036    | ppbv       |          |
| 53) Toluene                 | 6.940  | 91    | 124001   | 2.136    | ppbv       | 98       |
| 58) Ethyl Benzene           | 9.361  | 91    | 20976    | 0.265    | ppbv       | 95       |
| 59) m/p-Xylene              | 9.532  | 91    | 64820    | 1.026    | ppbv       | 99       |
| 60) o-Xylene                | 9.969  | 91    | 22977    | 0.363    | ppbv       | 94       |
| 61) Styrene                 | 9.875  | 104   | 11230    | 0.359    | ppbv       | 96       |
| 74) 1,2,4-Trimethylbenzene  | 11.539 | 105   | 20838    | 0.263    | ppbv #     | 72       |

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

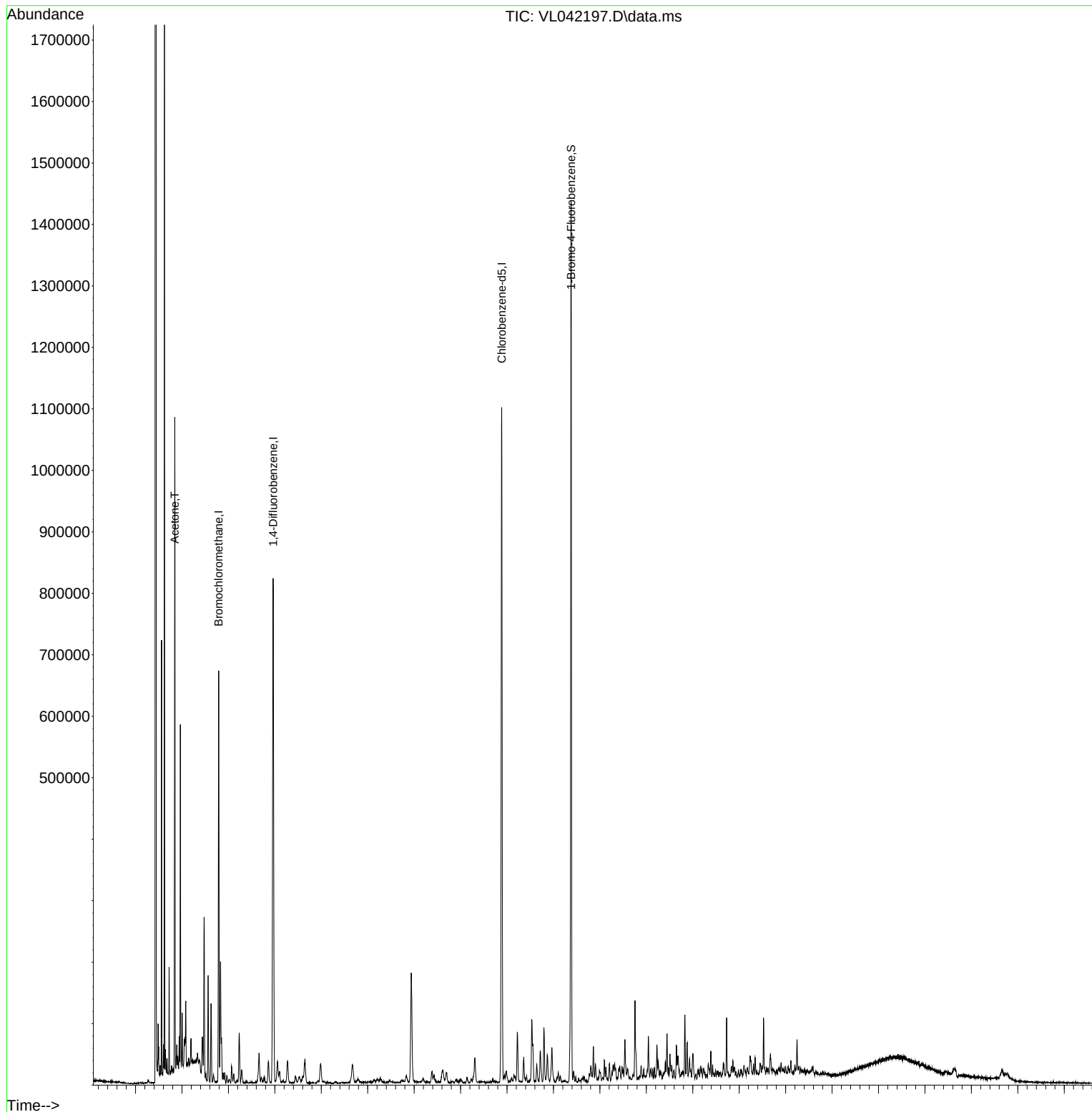
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042197.D  
Acq On : 28 Mar 2025 01:20  
Operator : SY/MD  
Sample : Q1669-05  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

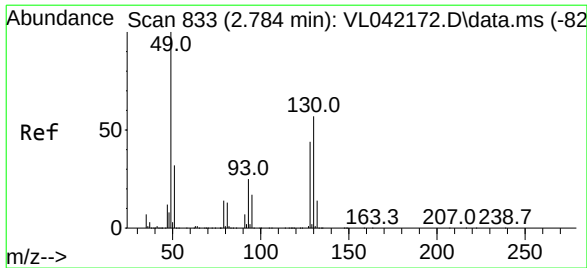
Quant Time: Mar 28 23:03:06 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025







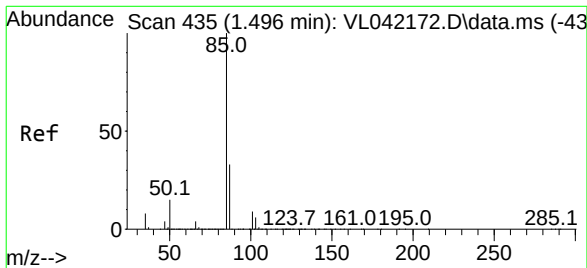
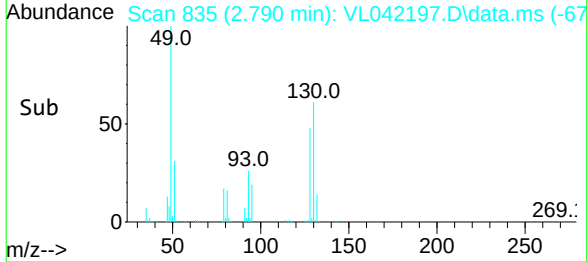
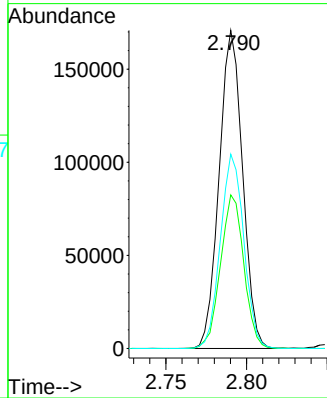
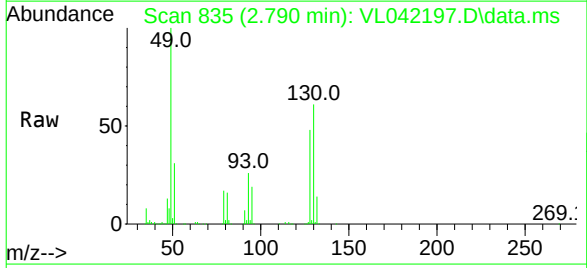
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 833  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

| Tgt Ion: | 49    | Resp: | 172645 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 49       | 100   |       |        |
| 128      | 48.0  | 22.9  | 68.5   |
| 130      | 61.2  | 28.8  | 86.4   |

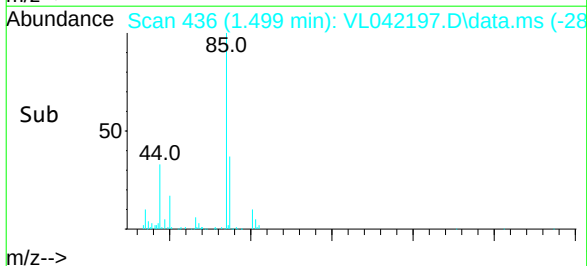
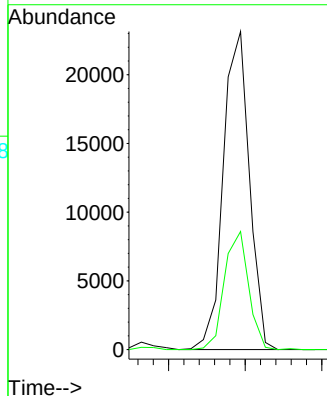
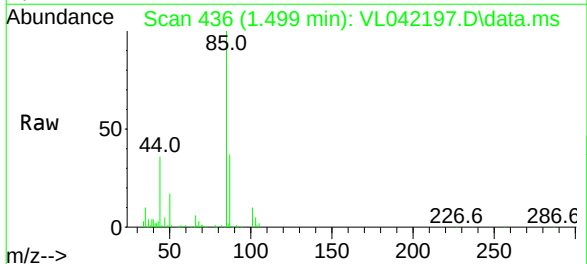
Manual Integrations  
APPROVED

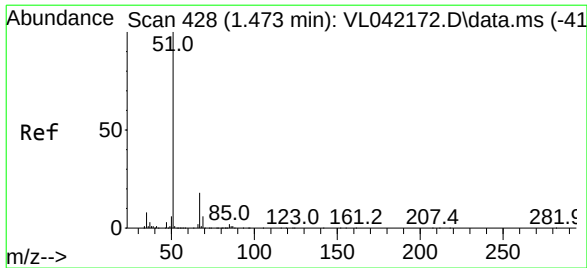
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#2  
Dichlorodifluoromethane  
Concen: 0.430 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.003 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

| Tgt Ion: | 85    | Resp: | 10972 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 85       | 100   |       |       |
| 87       | 37.1  | 26.1  | 39.1  |





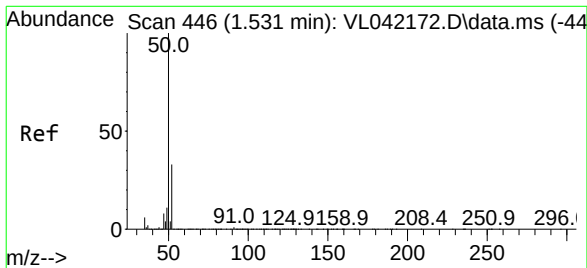
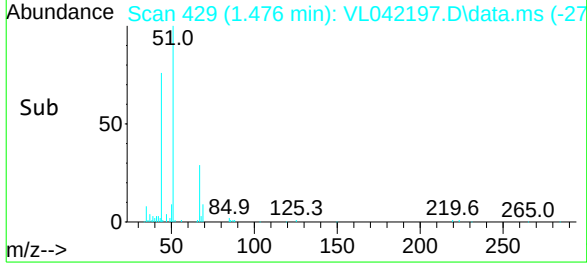
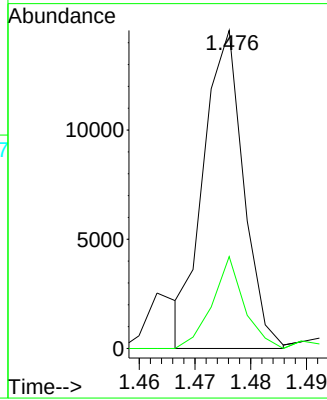
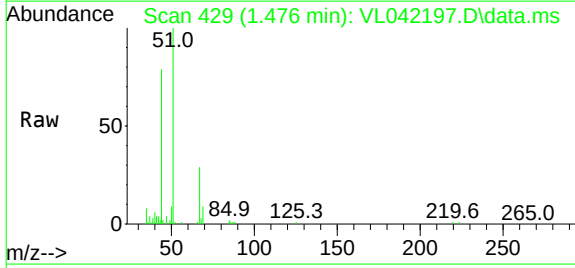
#3  
Chlorodifluoromethane  
Concen: 0.277 ppbv m  
RT: 1.476 min Scan# 428  
Delta R.T. 0.003 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

Tgt Ion: 51 Resp: 7213  
Ion Ratio Lower Upper  
51 100  
67 28.1 15.0 22.6#

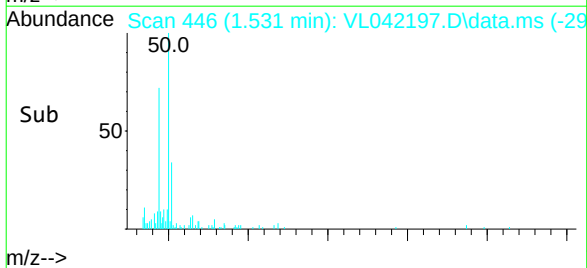
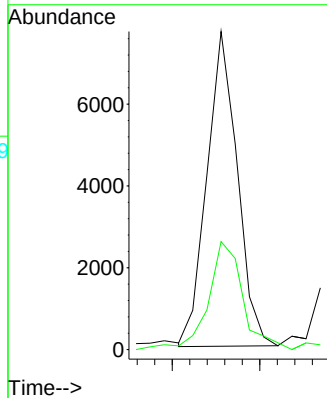
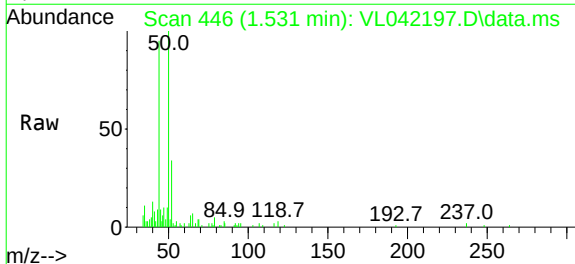
Manual Integrations  
APPROVED

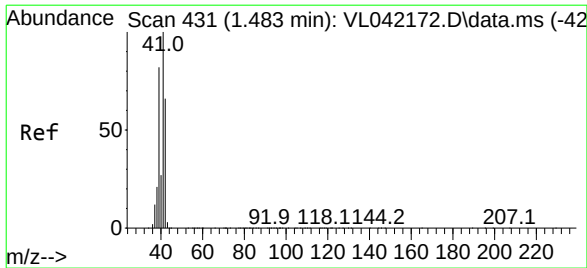
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#4  
Chloromethane  
Concen: 0.357 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 50 Resp: 3716  
Ion Ratio Lower Upper  
50 100  
52 33.2 26.1 39.1





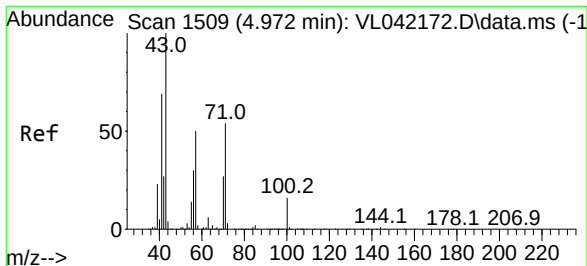
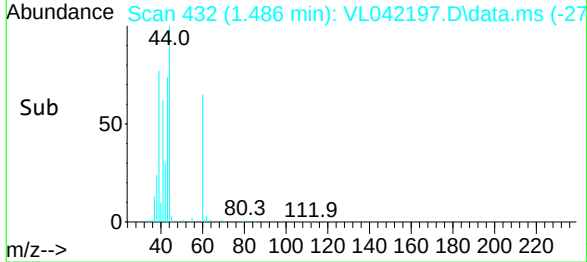
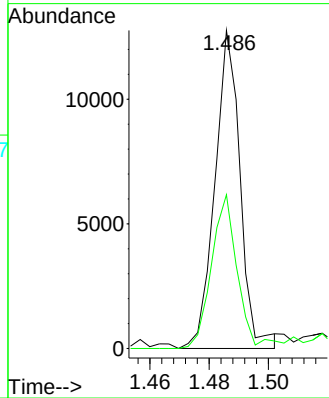
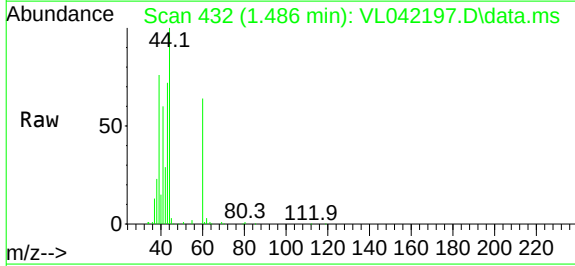
#9  
Propene  
Concen: 0.632 ppbv m  
RT: 1.486 min Scan# 431  
Delta R.T. 0.003 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

Tgt Ion: 41 Resp: 7546  
Ion Ratio Lower Upper  
41 100  
42 665.9 55.4 83.2#

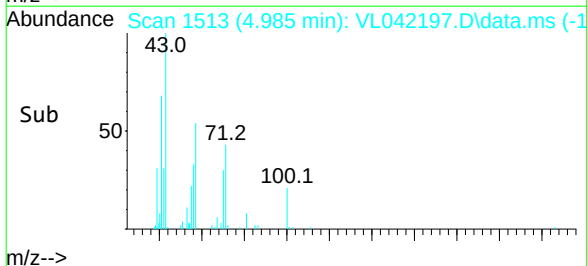
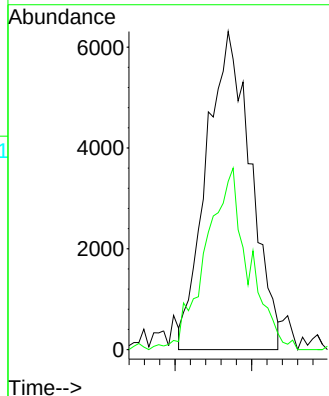
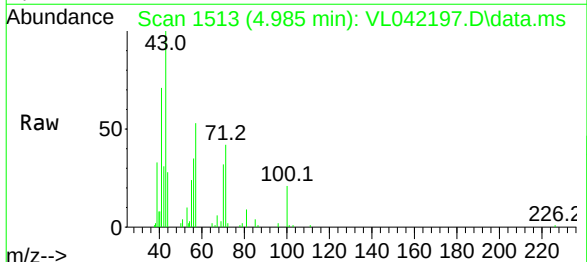
Manual Integrations  
APPROVED

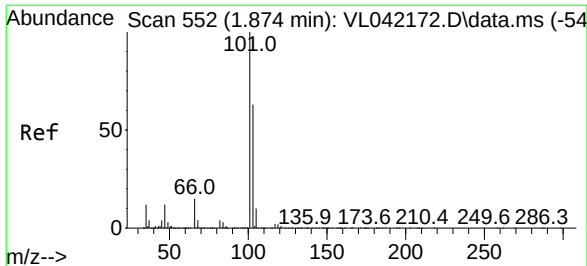
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#10  
Heptane  
Concen: 0.400 ppbv  
RT: 4.985 min Scan# 1513  
Delta R.T. 0.013 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 43 Resp: 12702  
Ion Ratio Lower Upper  
43 100  
57 55.1 39.4 59.2





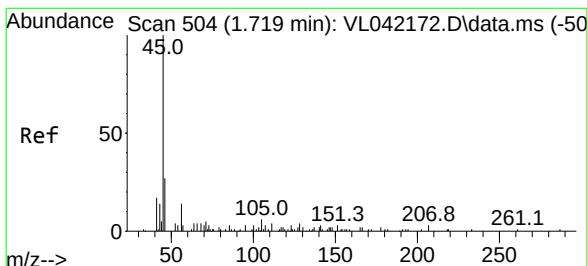
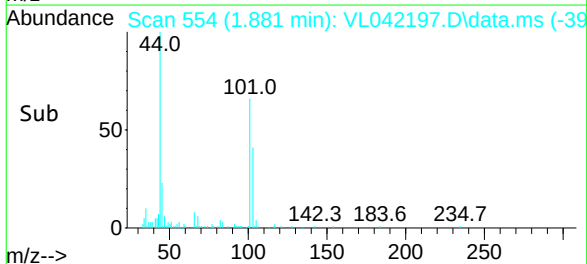
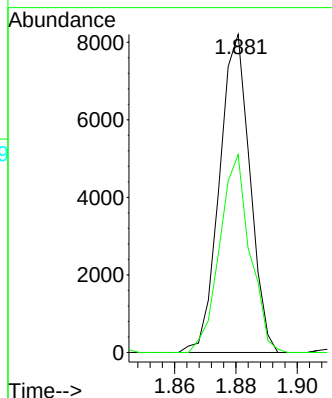
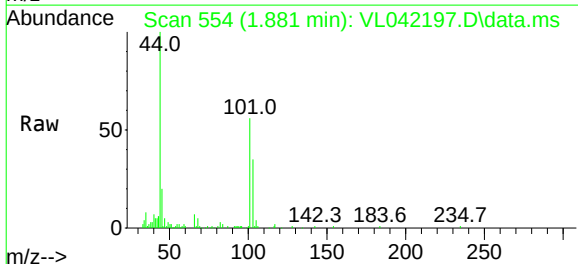
#11  
Trichlorofluoromethane  
Concen: 0.229 ppbv  
RT: 1.881 min Scan# 55  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

Tgt Ion: 101 Resp: 5673  
Ion Ratio Lower Upper  
101 100  
103 62.2 50.2 75.2

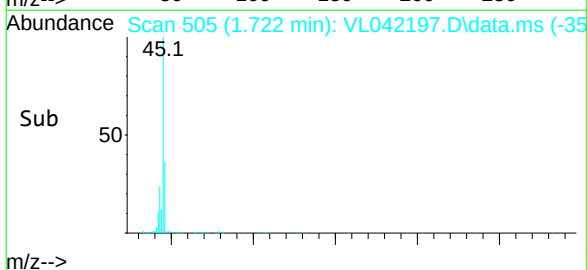
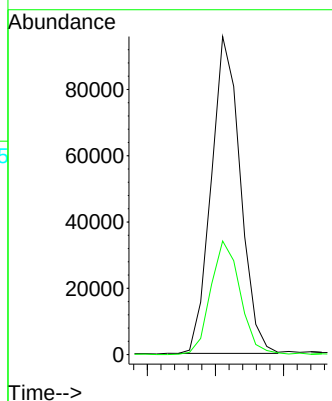
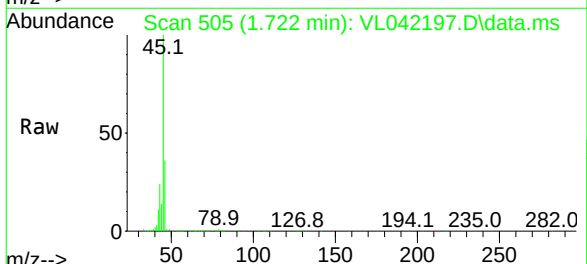
Manual Integrations  
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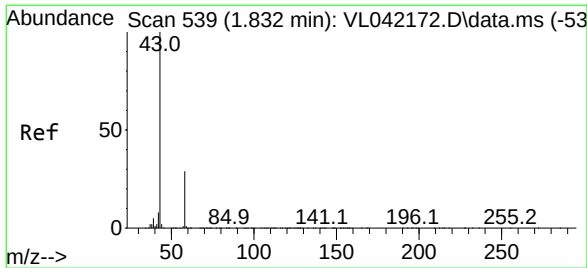
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025



#13  
Ethanol  
Concen: 50.352 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.003 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 45 Resp: 56814  
Ion Ratio Lower Upper  
45 100  
46 37.5 20.2 80.8





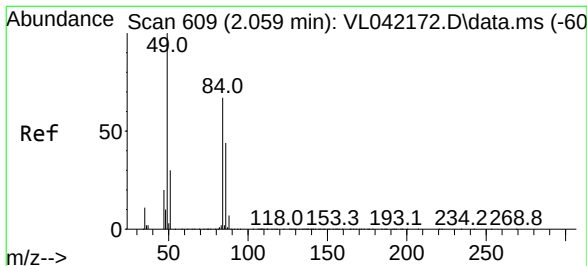
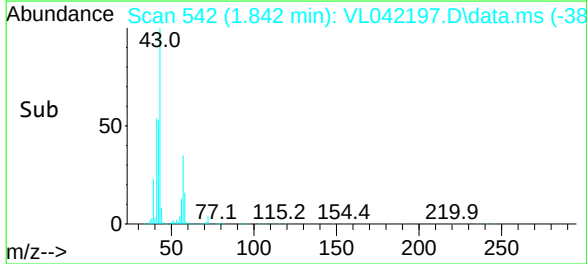
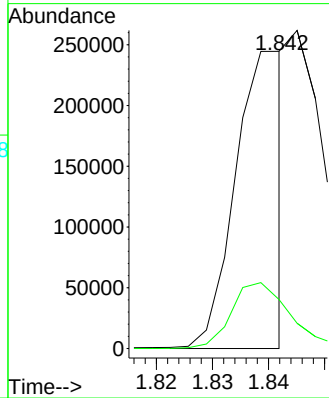
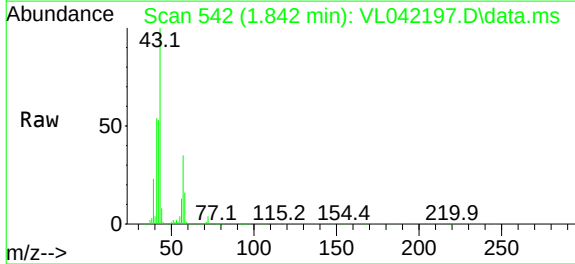
#15  
Acetone  
Concen: 6.202 ppbv m  
RT: 1.842 min Scan# 54  
Delta R.T. 0.010 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

Tgt Ion: 43 Resp: 149738  
Ion Ratio Lower Upper  
43 100  
58 26.9 23.2 34.8

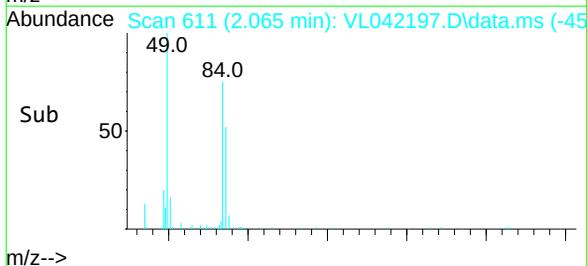
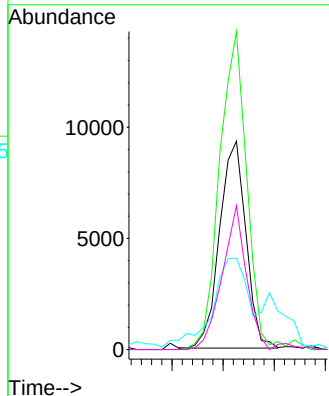
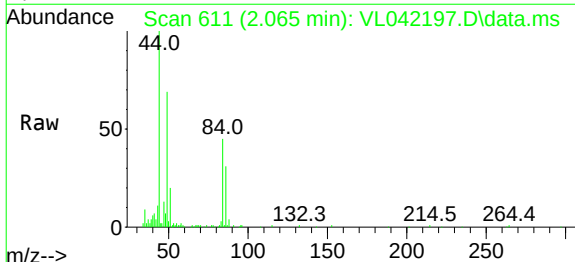
Manual Integrations  
APPROVED

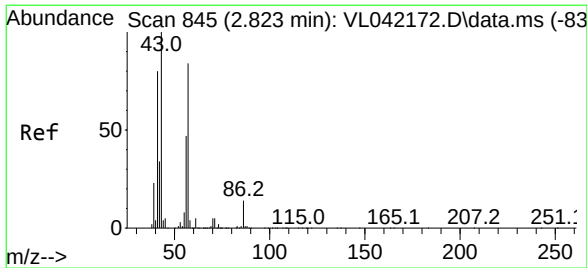
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#20  
Methylene Chloride  
Concen: 0.741 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

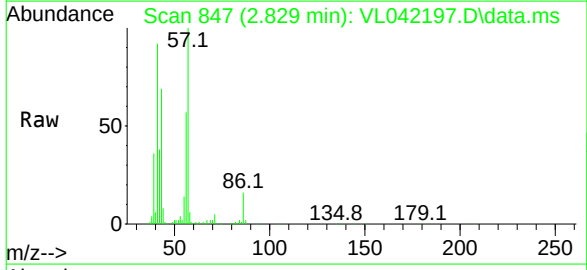
Tgt Ion: 84 Resp: 6666  
Ion Ratio Lower Upper  
84 100  
49 153.7 120.2 180.4  
51 37.5 37.4 56.0  
86 69.6 52.4 78.6





#26  
Hexane  
Concen: 1.876 ppbv  
RT: 2.829 min Scan# 845  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

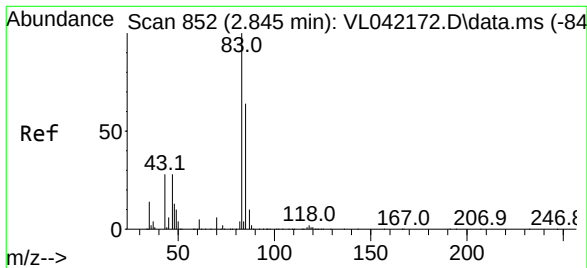
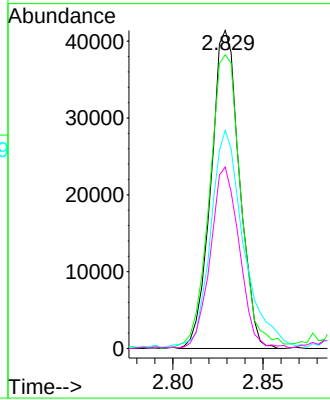
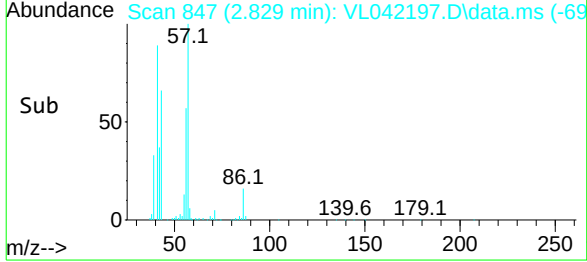
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025



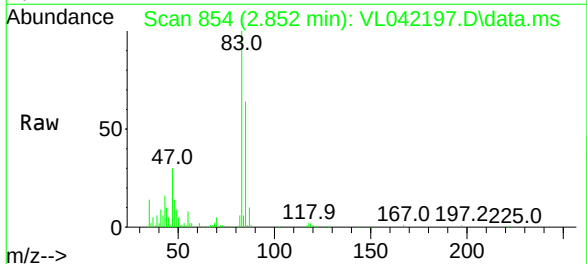
Tgt Ion: 57 Resp: 45421  
Ion Ratio Lower Upper  
57 100  
41 102.0 76.6 114.8  
43 79.1 207.8 311.8#  
56 58.3 43.6 65.4

Manual Integrations  
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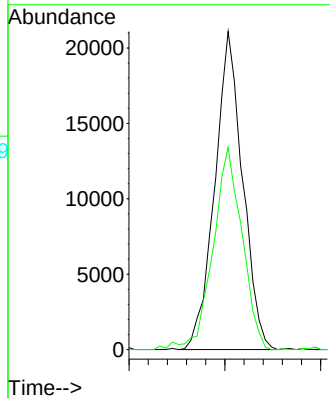
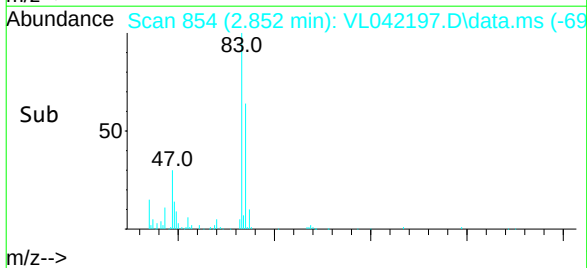
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

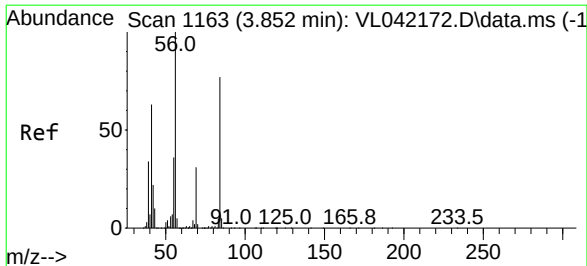


#29  
Chloroform  
Concen: 0.601 ppbv  
RT: 2.852 min Scan# 854  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20



Tgt Ion: 83 Resp: 21281  
Ion Ratio Lower Upper  
83 100  
85 63.6 51.4 77.2





#30

Cyclohexane

Concen: 0.401 ppbv m

RT: 3.858 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL042197.D

Acq: 28 Mar 2025 01:20

Instrument :

MSVOA\_L

ClientSampleId :

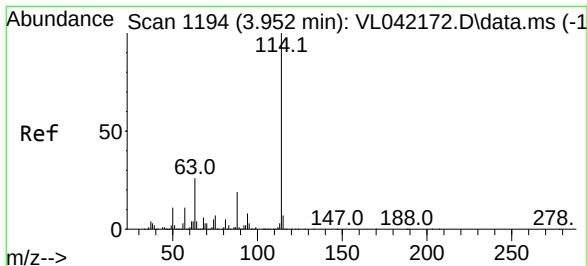
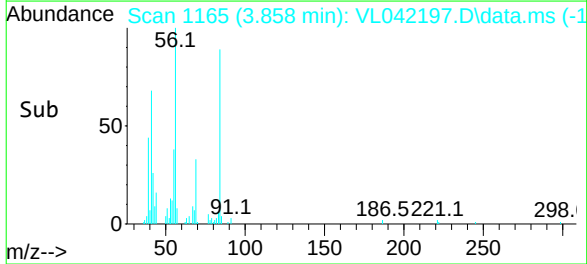
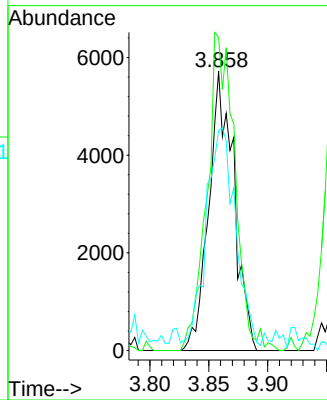
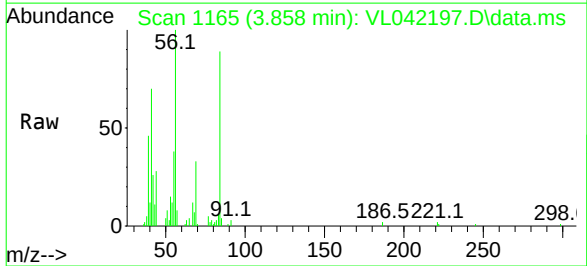
SSSG-B16-3-3262025

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 8428  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 56       | 126.8 | 102.8 | 154.2 |
| 41       | 92.0  | 66.5  | 99.7  |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

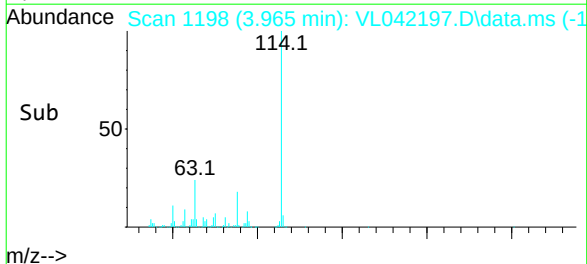
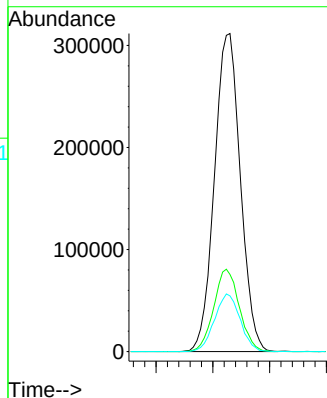
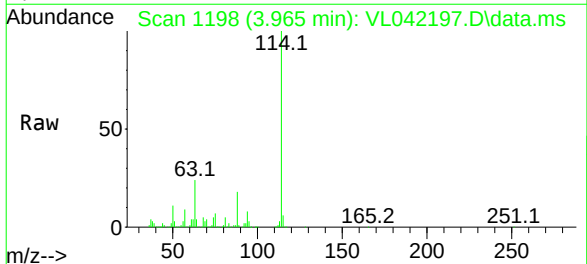
RT: 3.965 min Scan# 1198

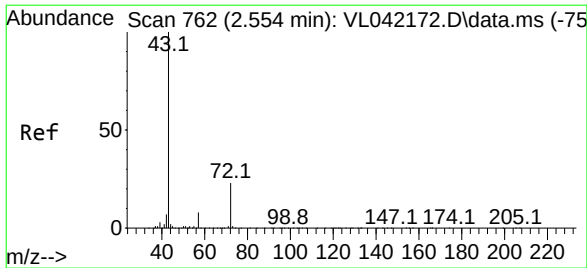
Delta R.T. 0.013 min

Lab File: VL042197.D

Acq: 28 Mar 2025 01:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 493948 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 25.6  | 20.7  | 31.1   |
| 88       | 17.9  | 15.0  | 22.4   |





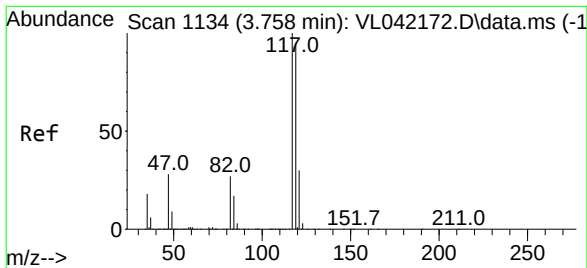
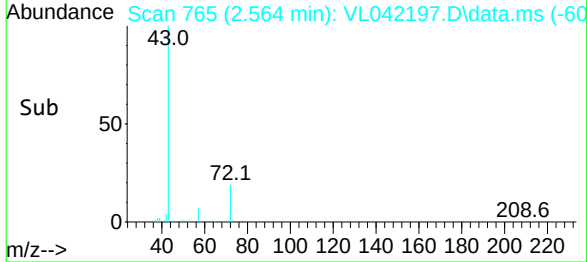
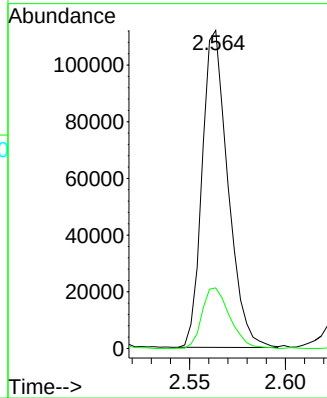
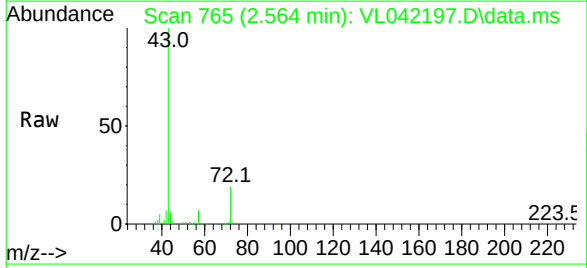
#34  
2-Butanone  
Concen: 2.922 ppbv  
RT: 2.564 min Scan# 762  
Delta R.T. 0.009 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

Tgt Ion: 43 Resp: 104671  
Ion Ratio Lower Upper  
43 100  
72 20.7 18.2 27.2

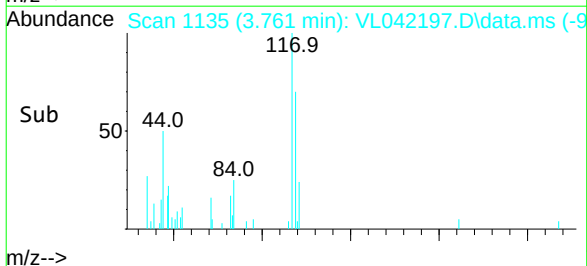
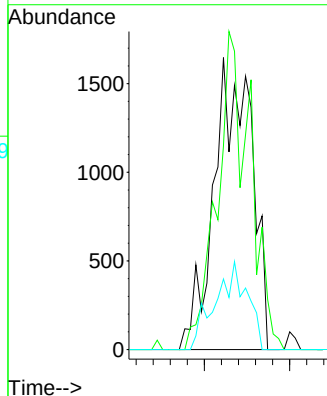
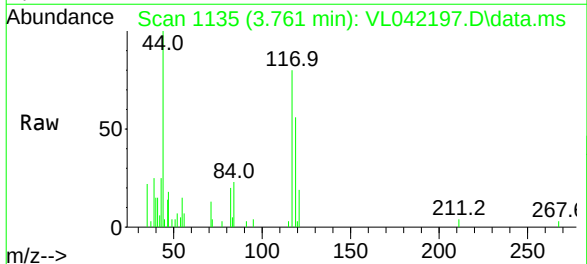
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

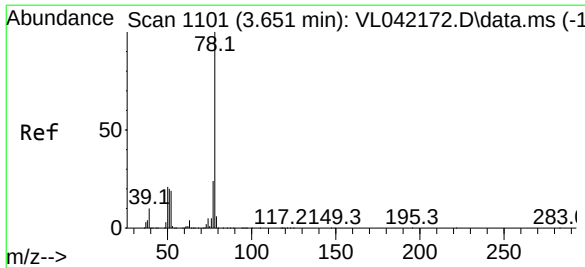


#35  
Carbon Tetrachloride  
Concen: 0.066 ppbv m  
RT: 3.761 min Scan# 1135  
Delta R.T. 0.003 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion:117 Resp: 2542  
Ion Ratio Lower Upper  
117 100  
119 69.8 76.2 114.2#  
121 24.2 24.2 36.4#

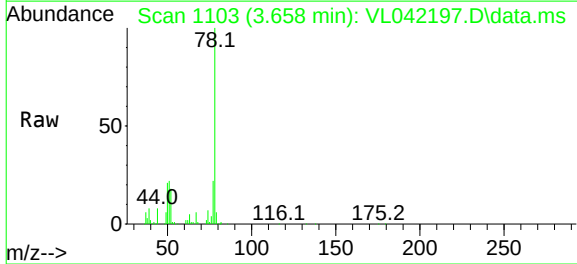






#36  
Benzene  
Concen: 0.550 ppbv  
RT: 3.658 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

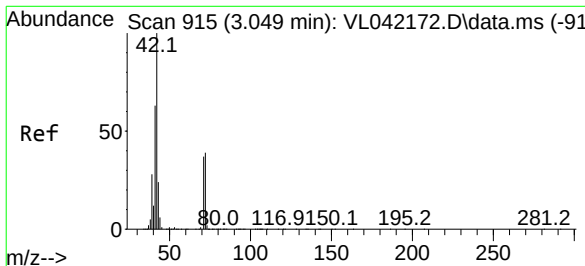
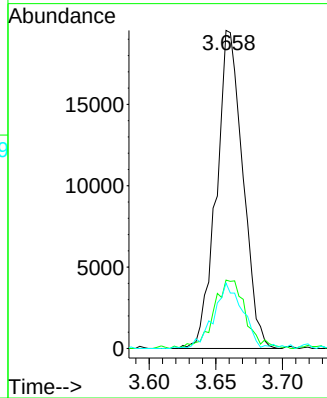
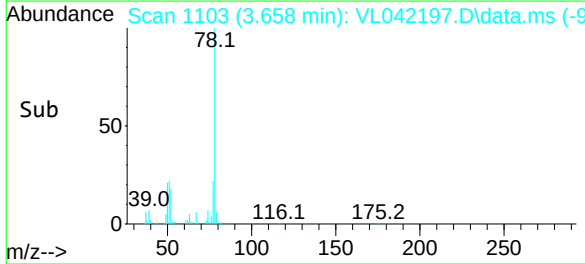
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025



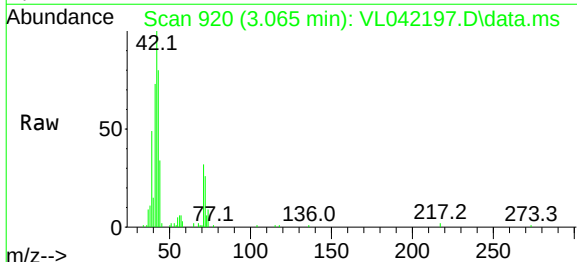
Tgt Ion: 78 Resp: 26954  
Ion Ratio Lower Upper  
78 100  
77 21.2 19.1 28.7  
50 20.3 16.6 24.8

Manual Integrations  
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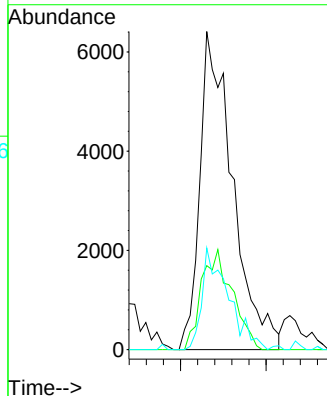
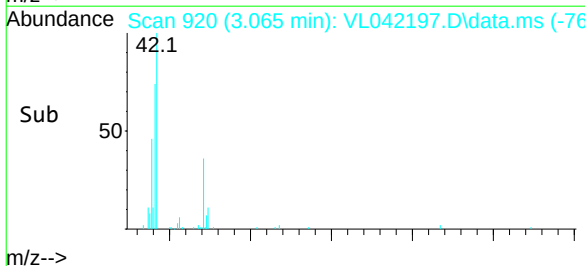
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

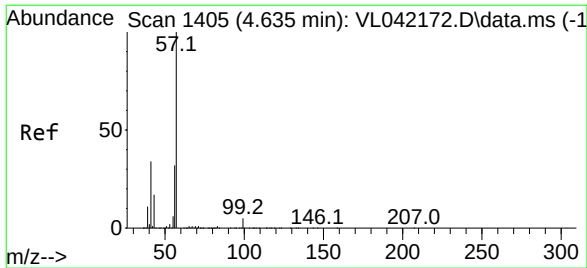


#41  
Tetrahydrofuran  
Concen: 0.413 ppbv m  
RT: 3.065 min Scan# 920  
Delta R.T. 0.016 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20



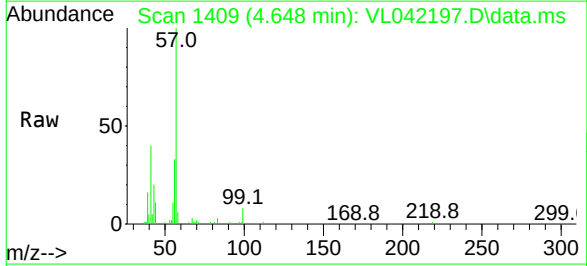
Tgt Ion: 42 Resp: 8525  
Ion Ratio Lower Upper  
42 100  
72 0.0 31.4 47.0#  
71 26.0 30.2 45.4#





#44  
2,2,4-Trimethylpentane  
Concen: 0.388 ppbv  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.013 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

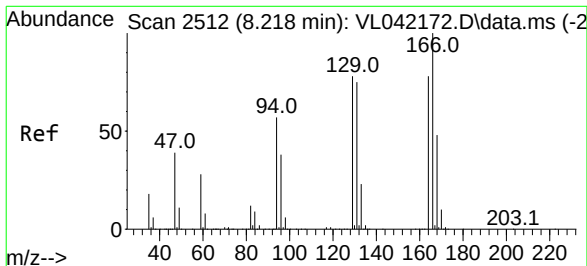
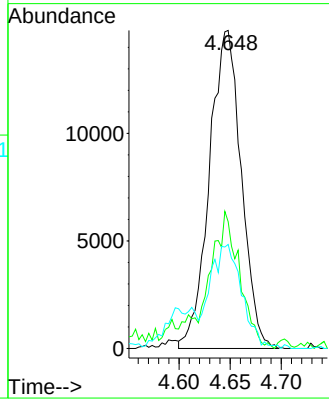
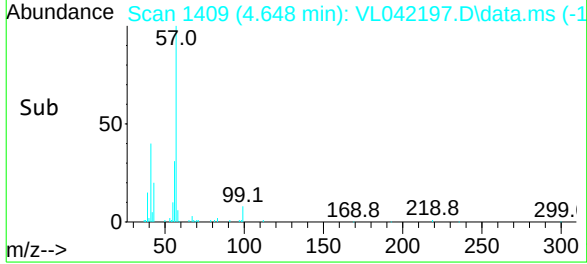
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025



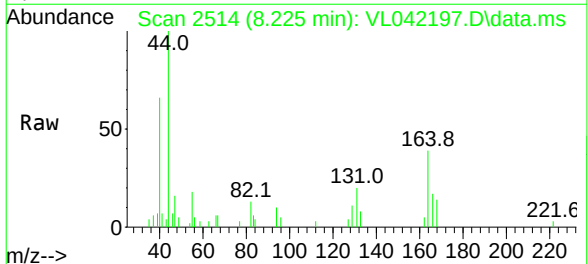
Tgt Ion: 57 Resp: 32093  
Ion Ratio Lower Upper  
57 100  
41 47.6 26.8 40.2#  
56 44.7 25.6 38.4#

Manual Integrations  
APPROVED

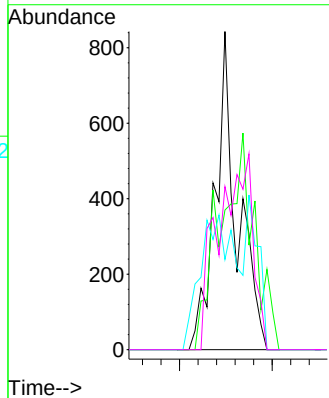
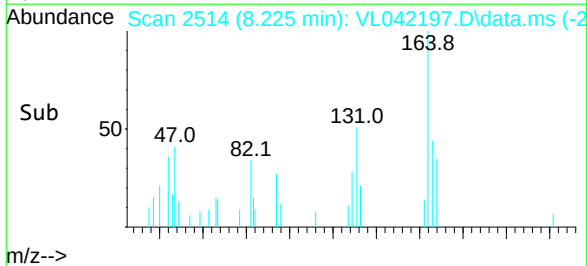
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

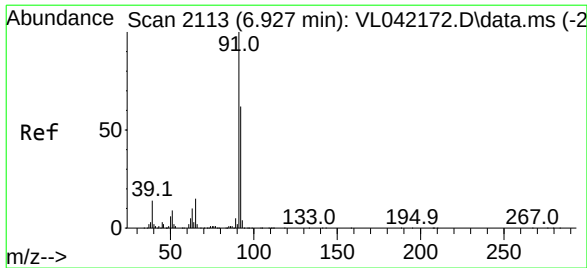


#52  
Tetrachloroethene  
Concen: 0.036 ppbv m  
RT: 8.225 min Scan# 2514  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20



Tgt Ion: 164 Resp: 690  
Ion Ratio Lower Upper  
164 100  
166 43.9 102.5 153.7#  
129 28.4 79.8 119.8#  
131 51.2 76.6 114.8#





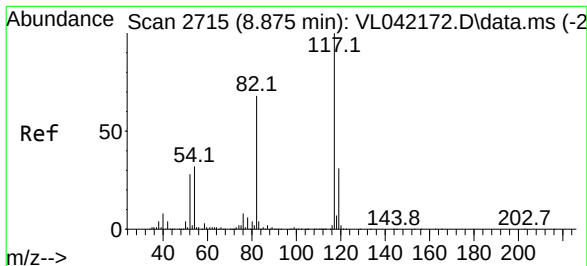
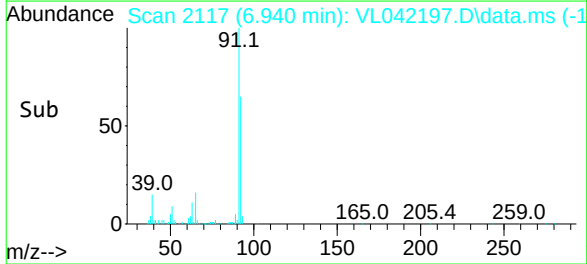
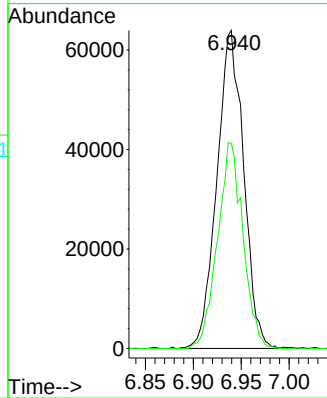
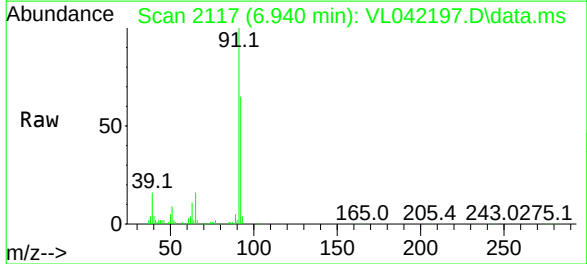
#53  
Toluene  
Concen: 2.136 ppbv  
RT: 6.940 min Scan# 2117  
Delta R.T. 0.013 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

Tgt Ion: 91 Resp: 124001  
Ion Ratio Lower Upper  
91 100  
92 61.8 48.4 72.6

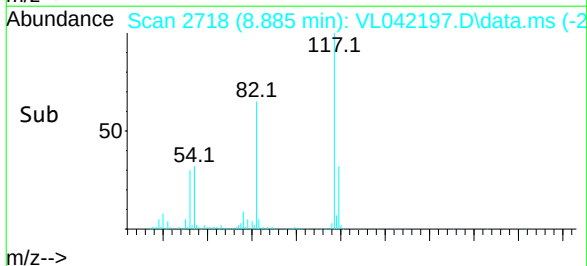
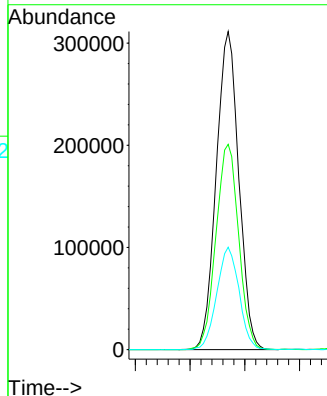
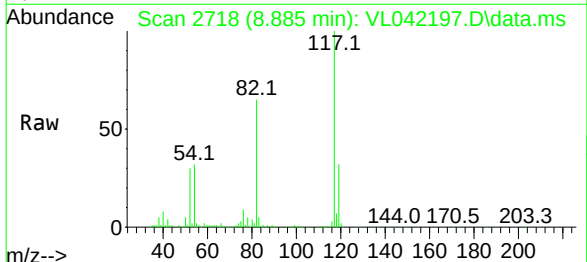
Manual Integrations  
APPROVED

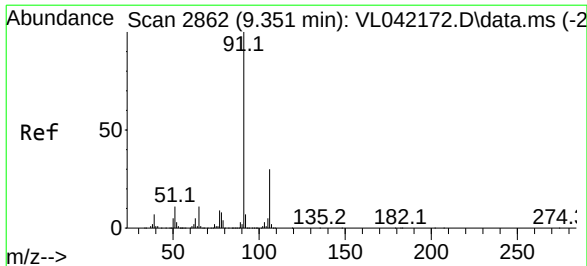
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2718  
Delta R.T. 0.010 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion:117 Resp: 445312  
Ion Ratio Lower Upper  
117 100  
82 65.1 55.8 83.6  
119 32.0 25.5 38.3





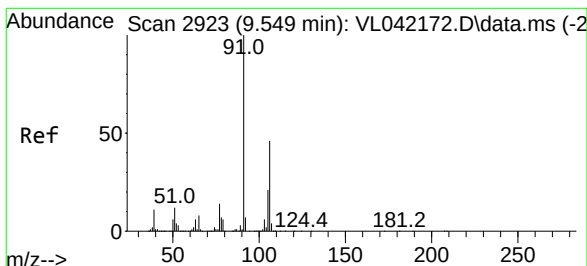
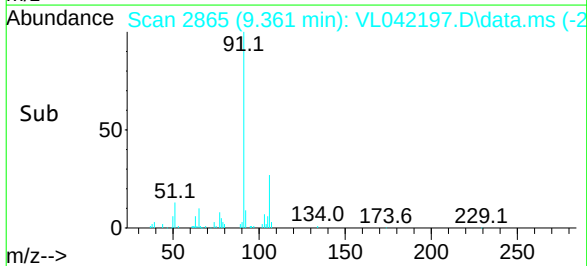
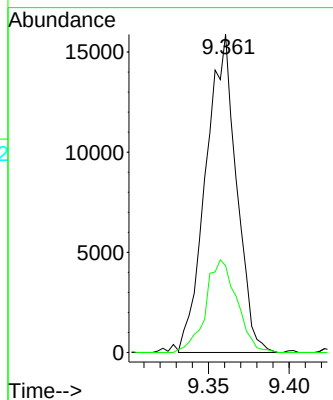
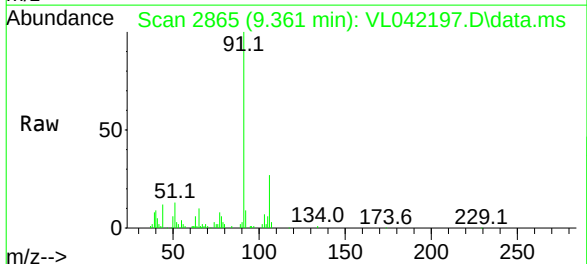
#58  
Ethyl Benzene  
Concen: 0.265 ppbv  
RT: 9.361 min Scan# 2865  
Delta R.T. 0.009 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Instrument : MSVOA\_L  
ClientSampleId : SSSG-B16-3-3262025

Tgt Ion: 91 Resp: 20976  
Ion Ratio Lower Upper  
91 100  
106 27.3 24.2 36.2

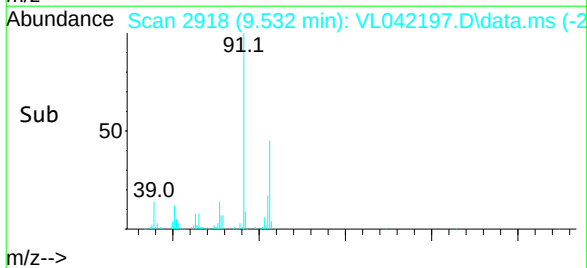
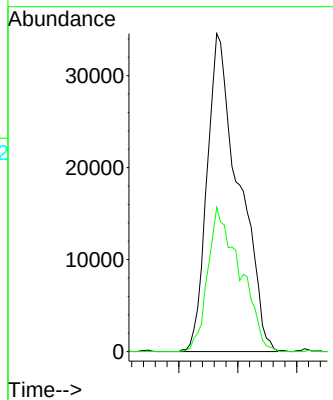
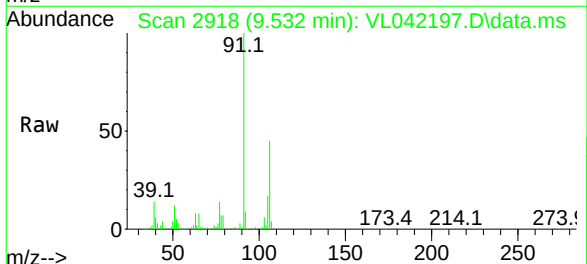
Manual Integrations  
APPROVED

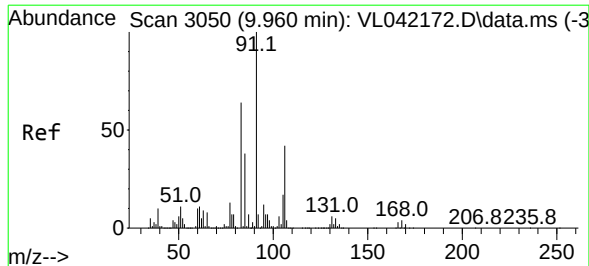
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#59  
m/p-Xylene  
Concen: 1.026 ppbv  
RT: 9.532 min Scan# 2918  
Delta R.T. -0.016 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

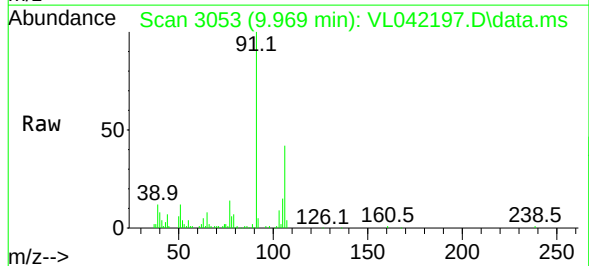
Tgt Ion: 91 Resp: 64820  
Ion Ratio Lower Upper  
91 100  
106 46.1 36.4 54.6





#60  
o-Xylene  
Concen: 0.363 ppbv  
RT: 9.969 min Scan# 3053  
Delta R.T. 0.009 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

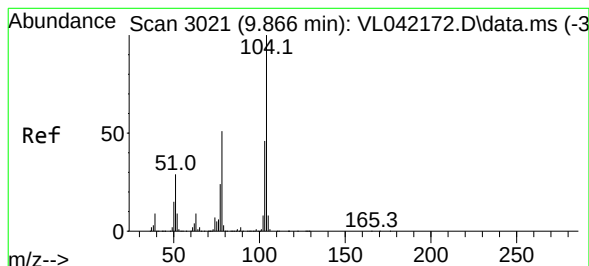
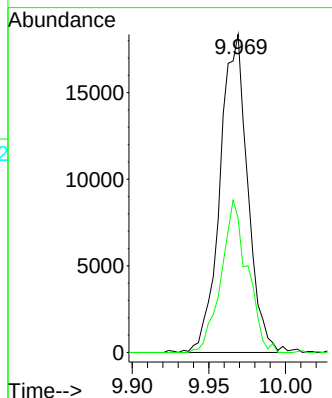
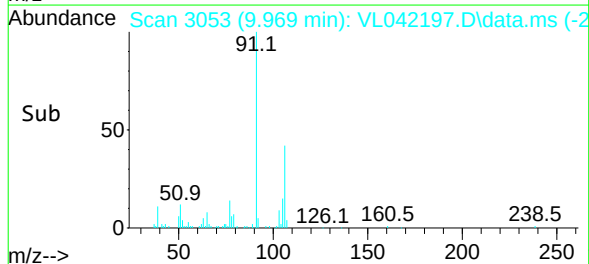
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025



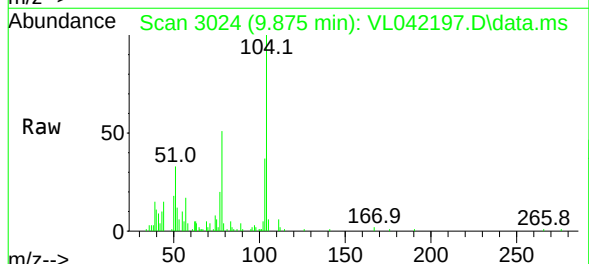
Tgt Ion: 91 Resp: 22977  
Ion Ratio Lower Upper  
91 100  
106 45.7 20.8 62.5

Manual Integrations  
APPROVED

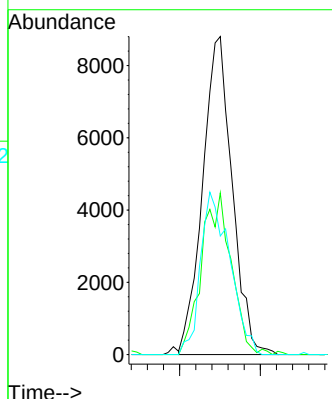
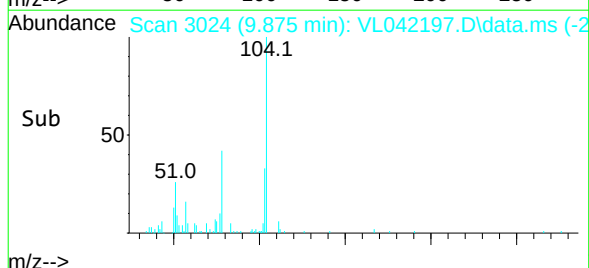
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

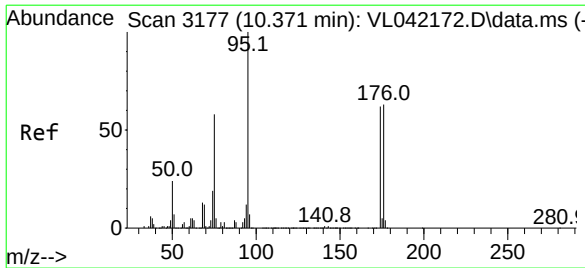


#61  
Styrene  
Concen: 0.359 ppbv  
RT: 9.875 min Scan# 3024  
Delta R.T. 0.009 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20



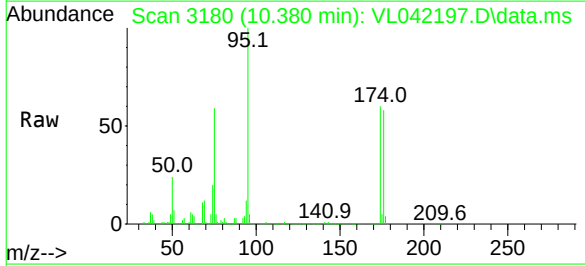
Tgt Ion:104 Resp: 11230  
Ion Ratio Lower Upper  
104 100  
78 51.4 41.8 62.6  
103 50.7 37.0 55.4





#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.088 ppbv  
RT: 10.380 min Scan# 3177  
Delta R.T. 0.009 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

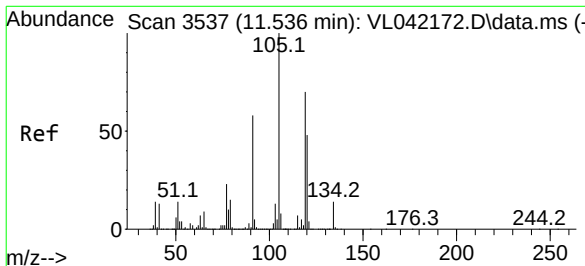
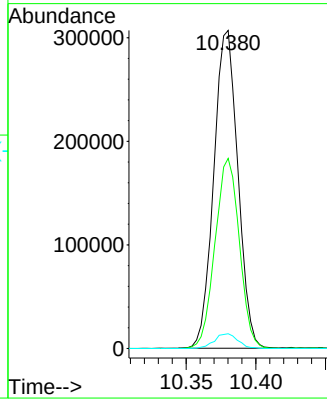
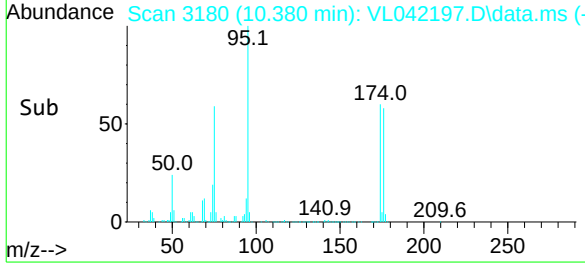
Instrument : MSVOA\_L  
ClientSampleId : SSSG-B16-3-3262025



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 368899 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 60.5  | 50.6  | 76.0   |
| 175      | 4.5   | 3.8   | 5.6    |

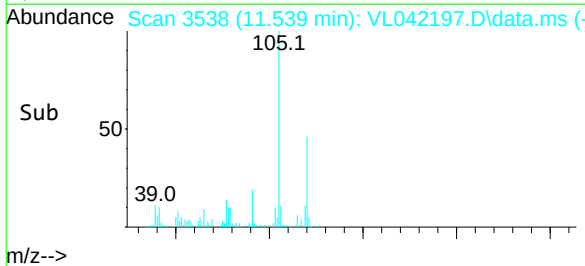
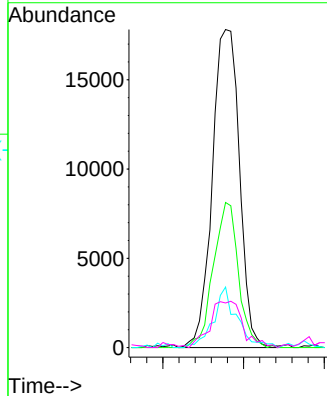
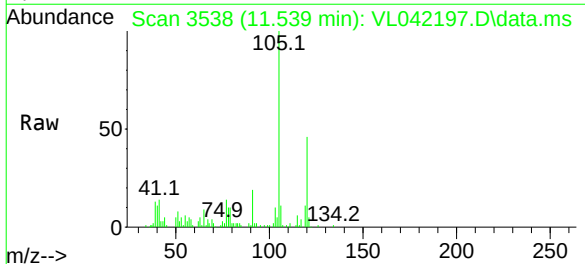
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#74  
1,2,4-Trimethylbenzene  
Concen: 0.263 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.003 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 20838 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 45.6  | 38.6  | 58.0  |
| 91       | 19.0  | 46.2  | 69.2# |
| 77       | 14.0  | 18.6  | 27.8# |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042197.D  
Acq On : 28 Mar 2025 01:20  
Operator : SY/MD  
Sample : Q1669-05  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

Signal : TIC: VL042197.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.424       | 410           | 413         | 416          | rBV      | 4126215        | 3571958       | 100.00%         | 19.910%       |
| 2         | 1.437       | 416           | 417         | 421          | rVB3     | 4081971        | 1852491       | 51.86%          | 10.326%       |
| 3         | 1.560       | 451           | 455         | 459          | rBV      | 705090         | 356544        | 9.98%           | 1.987%        |
| 4         | 1.622       | 470           | 474         | 478          | rVB      | 1853660        | 999323        | 27.98%          | 5.570%        |
| 5         | 1.722       | 500           | 505         | 512          | rBV      | 174343         | 104991        | 2.94%           | 0.585%        |
| 6         | 1.845       | 535           | 543         | 549          | rBV2     | 1065746        | 853931        | 23.91%          | 4.760%        |
| 7         | 1.939       | 568           | 572         | 576          | rBV2     | 51809          | 42185         | 1.18%           | 0.235%        |
| 8         | 1.965       | 576           | 580         | 586          | rVV      | 558770         | 385999        | 10.81%          | 2.152%        |
| 9         | 2.004       | 586           | 592         | 599          | rVB      | 87319          | 65743         | 1.84%           | 0.366%        |
| 10        | 2.081       | 613           | 616         | 621          | rVB      | 104292         | 75997         | 2.13%           | 0.424%        |
| 11        | 2.441       | 720           | 727         | 732          | rBV3     | 57721          | 80338         | 2.25%           | 0.448%        |
| 12        | 2.476       | 732           | 738         | 746          | rVB2     | 260904         | 264158        | 7.40%           | 1.472%        |
| 13        | 2.564       | 760           | 765         | 774          | rVB      | 172370         | 164873        | 4.62%           | 0.919%        |
| 14        | 2.625       | 777           | 784         | 792          | rBV      | 127554         | 137149        | 3.84%           | 0.764%        |
| 15        | 2.790       | 827           | 835         | 842          | rBV      | 668713         | 683759        | 19.14%          | 3.811%        |
| 16        | 2.829       | 842           | 847         | 852          | rVV2     | 192521         | 224796        | 6.29%           | 1.253%        |
| 17        | 2.852       | 852           | 854         | 860          | rVB      | 67335          | 51663         | 1.45%           | 0.288%        |
| 18        | 3.234       | 964           | 972         | 980          | rVB2     | 80049          | 108047        | 3.02%           | 0.602%        |
| 19        | 3.661       | 1089          | 1104        | 1113         | rBV2     | 47736          | 81834         | 2.29%           | 0.456%        |
| 20        | 3.858       | 1155          | 1165        | 1177         | rBV4     | 33535          | 59306         | 1.66%           | 0.331%        |
| 21        | 3.962       | 1184          | 1197        | 1211         | rBV      | 820130         | 1305181       | 36.54%          | 7.275%        |
| 22        | 4.056       | 1216          | 1226        | 1234         | rBV4     | 30886          | 54979         | 1.54%           | 0.306%        |
| 23        | 4.273       | 1282          | 1293        | 1305         | rVB5     | 35135          | 69766         | 1.95%           | 0.389%        |
| 24        | 4.648       | 1399          | 1409        | 1421         | rVB2     | 38068          | 80294         | 2.25%           | 0.448%        |
| 25        | 4.988       | 1499          | 1514        | 1527         | rVB6     | 30119          | 63406         | 1.78%           | 0.353%        |
| 26        | 5.671       | 1708          | 1725        | 1744         | rVB8     | 29338          | 79252         | 2.22%           | 0.442%        |
| 27        | 6.936       | 2101          | 2116        | 2132         | rBV2     | 178285         | 361314        | 10.12%          | 2.014%        |
| 28        | 7.616       | 2306          | 2326        | 2327         | rBV9     | 20724          | 40401         | 1.13%           | 0.225%        |
| 29        | 8.309       | 2523          | 2540        | 2552         | rBV8     | 39042          | 86212         | 2.41%           | 0.481%        |
| 30        | 8.885       | 2702          | 2718        | 2729         | rBV      | 1098535        | 1630047       | 45.63%          | 9.086%        |
| 31        | 9.221       | 2813          | 2822        | 2836         | rVB5     | 79481          | 118157        | 3.31%           | 0.659%        |
| 32        | 9.361       | 2853          | 2865        | 2870         | rBV2     | 41187          | 58209         | 1.63%           | 0.324%        |
| 33        | 9.532       | 2909          | 2918        | 2924         | rBV3     | 99737          | 155464        | 4.35%           | 0.867%        |
| 34        | 9.555       | 2924          | 2925        | 2937         | rVB7     | 62343          | 57437         | 1.61%           | 0.320%        |
| 35        | 9.639       | 2943          | 2951        | 2960         | rBV4     | 28843          | 45033         | 1.26%           | 0.251%        |
| 36        | 9.717       | 2967          | 2975        | 2988         | rVB5     | 50252          | 89237         | 2.50%           | 0.497%        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042197.D  
Acq On : 28 Mar 2025 01:20  
Operator : SY/MD  
Sample : Q1669-05  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

|    |        |      |      |      |      |         |         |        |         |
|----|--------|------|------|------|------|---------|---------|--------|---------|
| 37 | 9.794  | 2988 | 2999 | 3008 | rBV  | 88339   | 121594  | 3.40%  | 0.678%  |
| 38 | 9.866  | 3011 | 3021 | 3036 | rVB6 | 42822   | 76357   | 2.14%  | 0.426%  |
| 39 | 9.966  | 3038 | 3052 | 3064 | rBV3 | 55055   | 103301  | 2.89%  | 0.576%  |
| 40 | 10.380 | 3162 | 3180 | 3190 | rBV  | 1431699 | 1822329 | 51.02% | 10.158% |
| 41 | 10.862 | 3321 | 3329 | 3335 | rVV2 | 50620   | 61027   | 1.71%  | 0.340%  |
| 42 | 10.904 | 3335 | 3342 | 3355 | rVB5 | 26786   | 41930   | 1.17%  | 0.234%  |
| 43 | 11.539 | 3530 | 3538 | 3549 | rBV4 | 59652   | 85725   | 2.40%  | 0.478%  |
| 44 | 11.756 | 3599 | 3605 | 3618 | rVB3 | 127757  | 183893  | 5.15%  | 1.025%  |
| 45 | 12.044 | 3689 | 3694 | 3703 | rVB5 | 66694   | 75904   | 2.12%  | 0.423%  |
| 46 | 12.228 | 3743 | 3751 | 3756 | rBV3 | 52567   | 62141   | 1.74%  | 0.346%  |
| 47 | 12.445 | 3812 | 3818 | 3825 | rVB3 | 65407   | 66883   | 1.87%  | 0.373%  |
| 48 | 12.510 | 3832 | 3838 | 3844 | rBV7 | 35823   | 42266   | 1.18%  | 0.236%  |
| 49 | 12.646 | 3873 | 3880 | 3885 | rBV3 | 54410   | 64853   | 1.82%  | 0.361%  |
| 50 | 12.830 | 3930 | 3937 | 3943 | rBV2 | 99308   | 104990  | 2.94%  | 0.585%  |
| 51 | 12.882 | 3943 | 3953 | 3958 | rVB2 | 54959   | 71117   | 1.99%  | 0.396%  |
| 52 | 12.931 | 3958 | 3968 | 3973 | rBV7 | 28761   | 41597   | 1.16%  | 0.232%  |
| 53 | 13.002 | 3980 | 3990 | 4002 | rVB8 | 41478   | 76653   | 2.15%  | 0.427%  |
| 54 | 13.390 | 4103 | 4110 | 4117 | rVB2 | 41352   | 44523   | 1.25%  | 0.248%  |
| 55 | 13.730 | 4208 | 4215 | 4221 | rBV2 | 93428   | 90483   | 2.53%  | 0.504%  |
| 56 | 14.235 | 4362 | 4371 | 4375 | rBV9 | 30289   | 45567   | 1.28%  | 0.254%  |
| 57 | 14.523 | 4454 | 4460 | 4473 | rVB2 | 91379   | 100380  | 2.81%  | 0.560%  |
| 58 | 14.672 | 4497 | 4506 | 4513 | rBV2 | 32424   | 54156   | 1.52%  | 0.302%  |
| 59 | 15.245 | 4678 | 4683 | 4689 | rVB2 | 48375   | 43076   | 1.21%  | 0.240%  |

Sum of corrected areas: 17940219

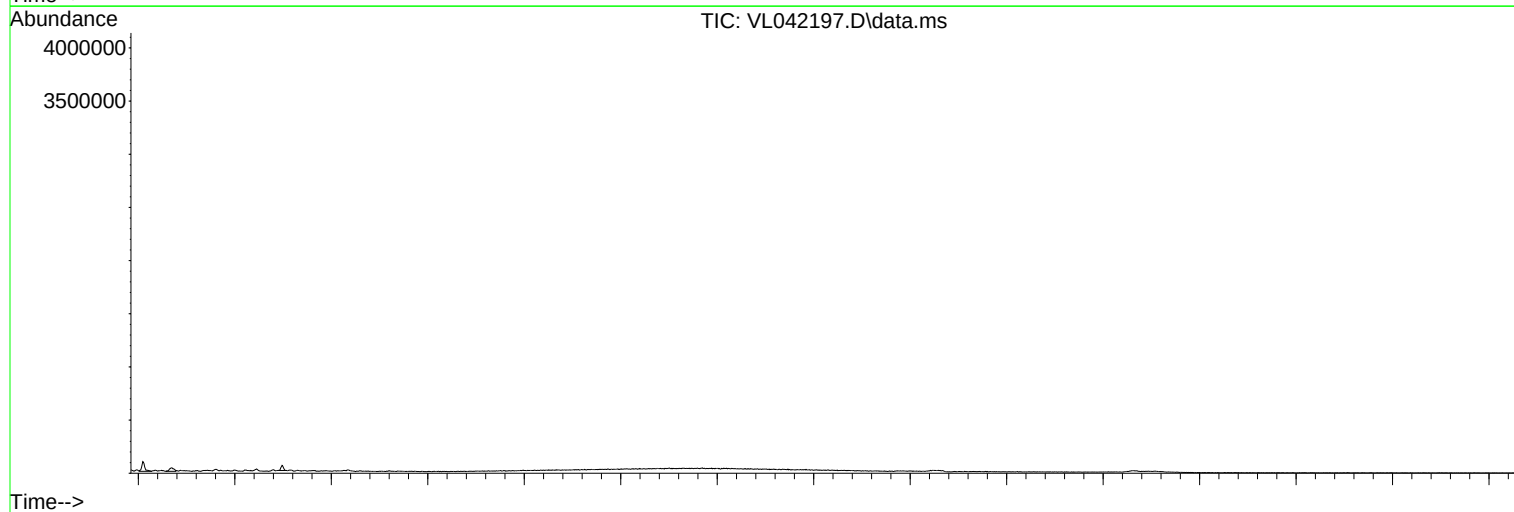
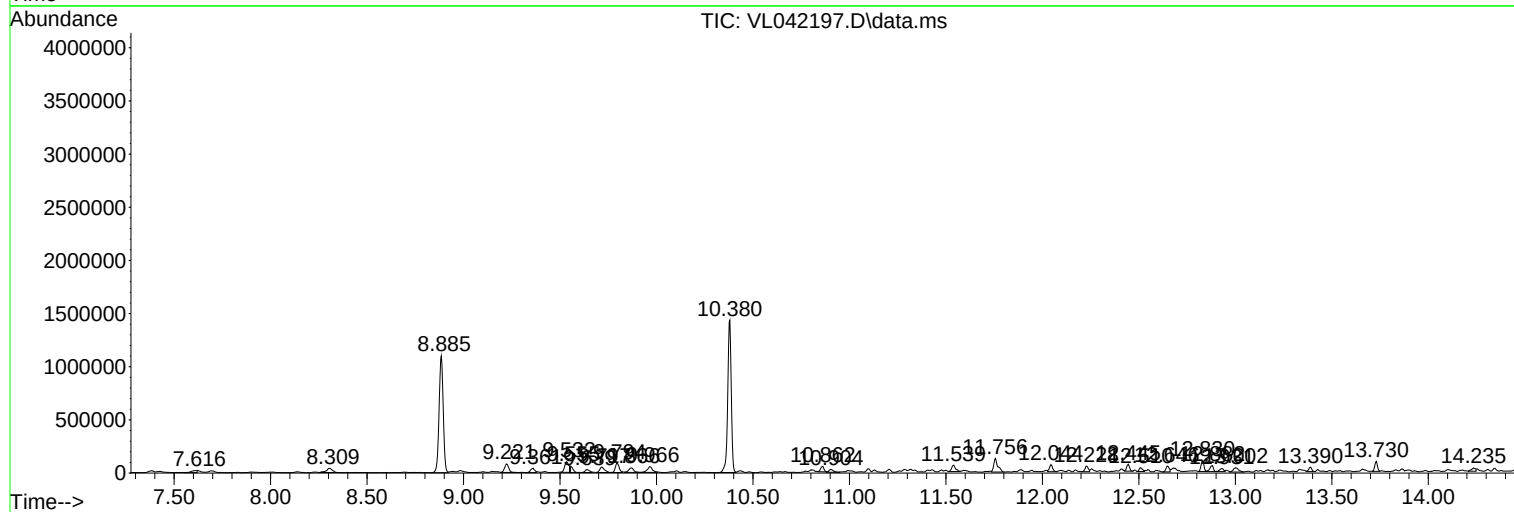
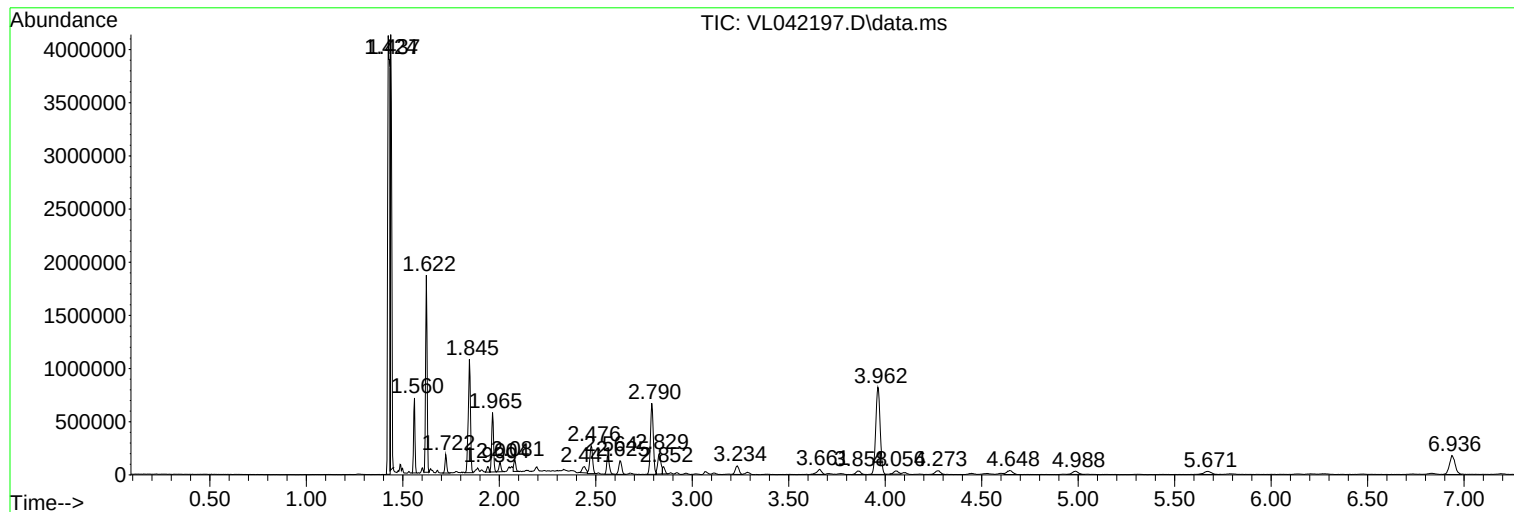


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Data File : VL042197.D  
Acq On : 28 Mar 2025 01:20  
Operator : SY/MD  
Sample : Q1669-05  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042197.D  
Acq On : 28 Mar 2025 01:20  
Operator : SY/MD  
Sample : Q1669-05  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

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

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

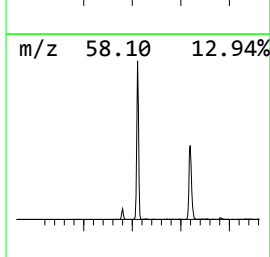
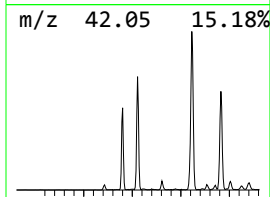
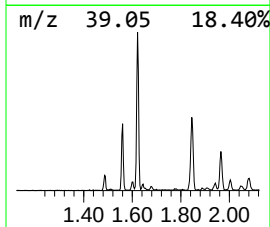
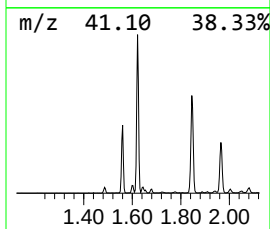
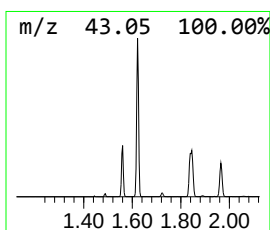
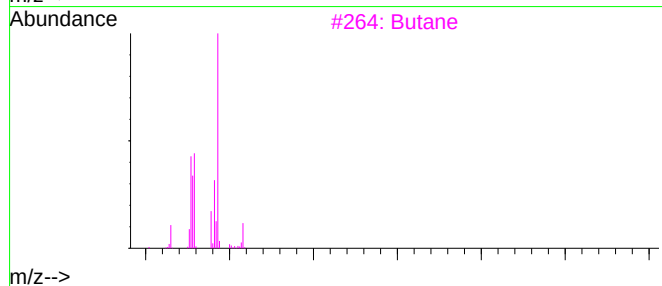
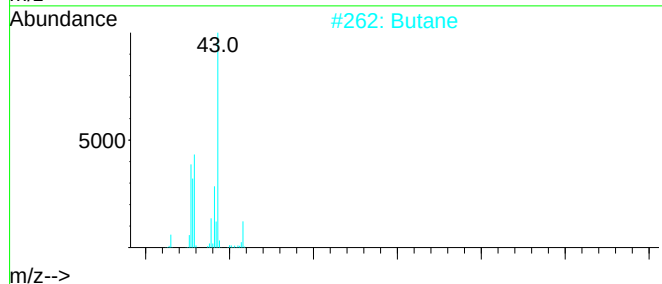
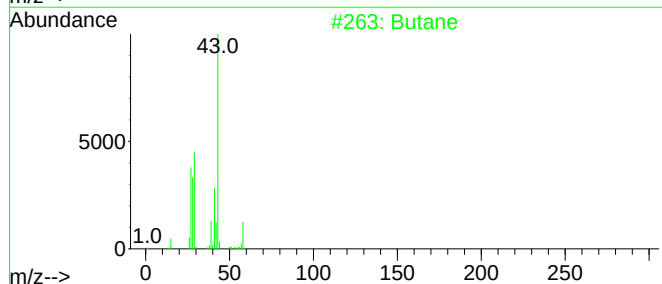
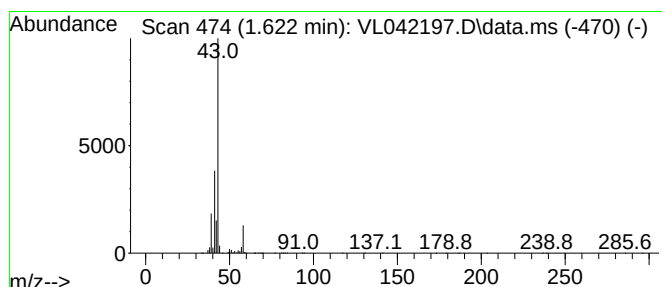
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Peak Number 2 Butane Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD   | R.T.  |
|-------|------------|--------|--------------------|-------|
| 1.622 | 14.62 ppbv | 999323 | Bromochloromethane | 2.790 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|-----------|--------------|----|---------|-------------|------|
| 1         | Butane       | 58 | C4H10   | 000106-97-8 | 86   |
| 2         | Butane       | 58 | C4H10   | 000106-97-8 | 86   |
| 3         | Butane       | 58 | C4H10   | 000106-97-8 | 78   |
| 4         | Butane       | 58 | C4H10   | 000106-97-8 | 72   |
| 5         | Isobutane    | 58 | C4H10   | 000075-28-5 | 9    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042197.D  
Acq On : 28 Mar 2025 01:20  
Operator : SY/MD  
Sample : Q1669-05  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

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

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

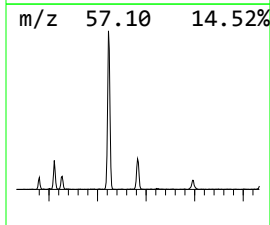
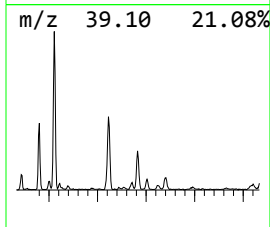
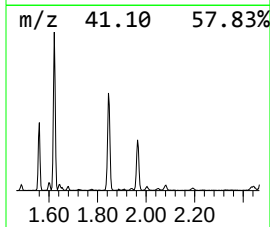
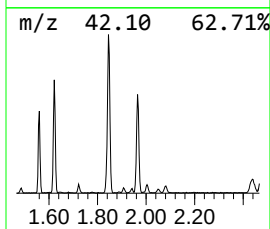
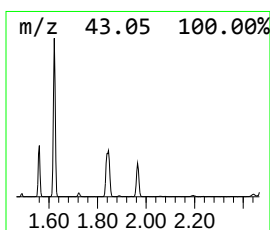
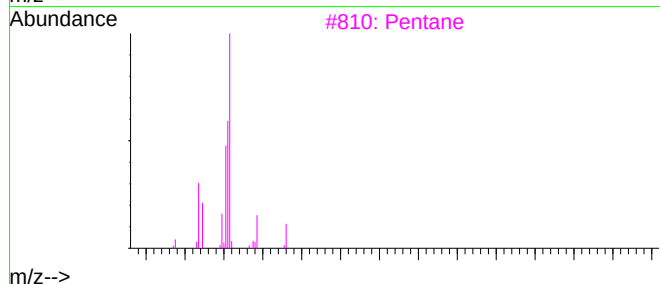
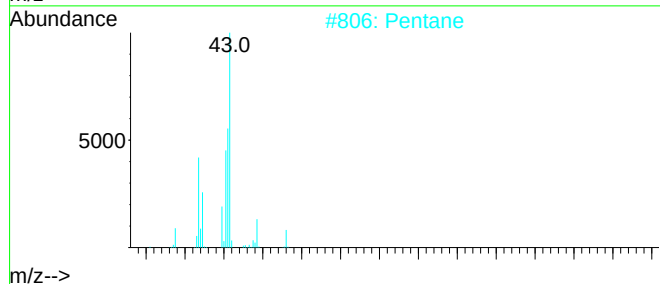
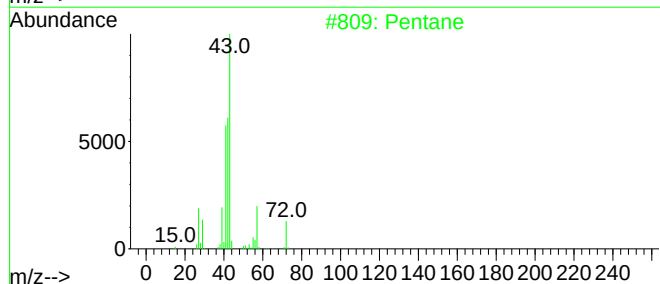
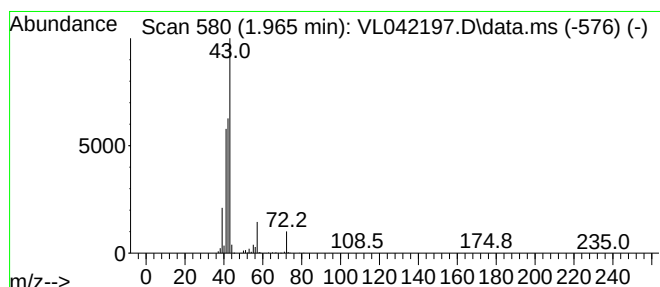
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Peak Number 3 Pentane Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 1.965 | 5.65 ppbv | 385999 | Bromochloromethane | 2.790 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|-----------|--------------|----|---------|-------------|------|
| 1         | Pentane      | 72 | C5H12   | 000109-66-0 | 91   |
| 2         | Pentane      | 72 | C5H12   | 000109-66-0 | 90   |
| 3         | Pentane      | 72 | C5H12   | 000109-66-0 | 90   |
| 4         | Pentane      | 72 | C5H12   | 000109-66-0 | 86   |
| 5         | Pentane      | 72 | C5H12   | 000109-66-0 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042197.D  
Acq On : 28 Mar 2025 01:20  
Operator : SY/MD  
Sample : Q1669-05  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

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

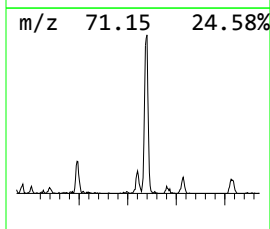
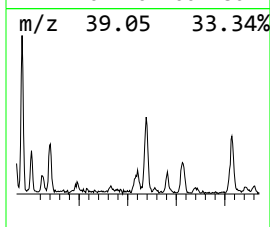
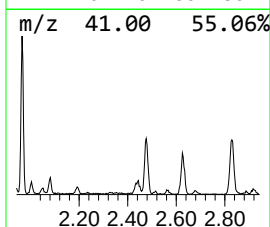
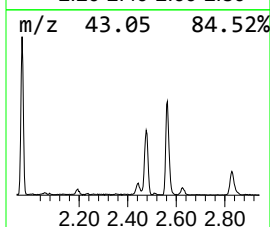
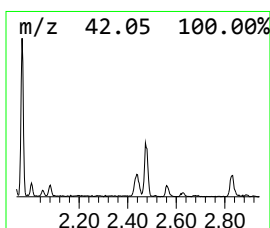
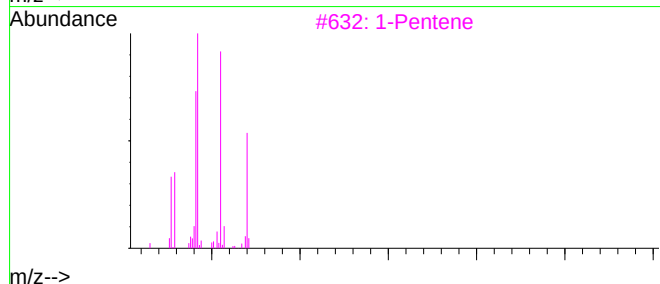
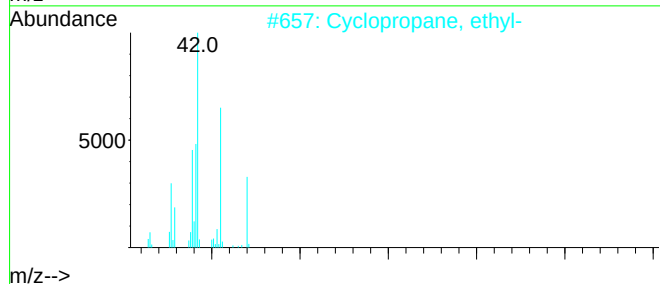
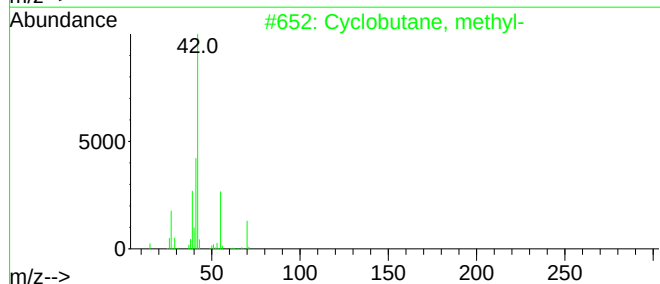
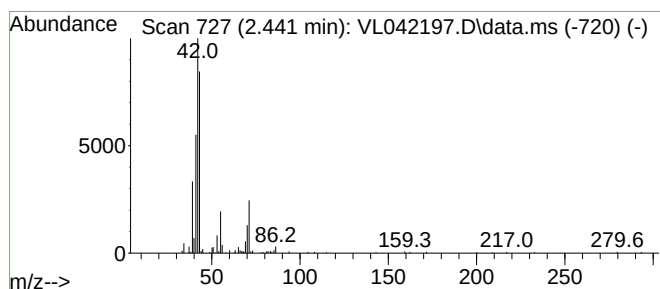
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 unknown2.441 Concentration Rank 7

| R.T.  | EstConc   | Area  | Relative to ISTD   | R.T.  |
|-------|-----------|-------|--------------------|-------|
| 2.441 | 1.17 ppbv | 80338 | Bromochloromethane | 2.790 |

| Hit# of 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|-----------|----------------------------|-----|---------|-------------|------|
| 1         | Cyclobutane, methyl-       | 70  | C5H10   | 000598-61-8 | 47   |
| 2         | Cyclopropane, ethyl-       | 70  | C5H10   | 001191-96-4 | 25   |
| 3         | 1-Pentene                  | 70  | C5H10   | 000109-67-1 | 25   |
| 4         | Pentane, 2-bromo-          | 150 | C5H11Br | 000107-81-3 | 25   |
| 5         | Cyclopropanecarboxaldehyde | 70  | C4H6O   | 001489-69-6 | 9    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042197.D  
Acq On : 28 Mar 2025 01:20  
Operator : SY/MD  
Sample : Q1669-05  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

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

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

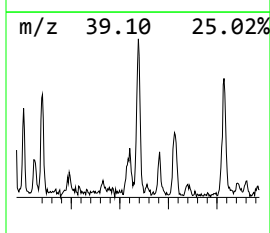
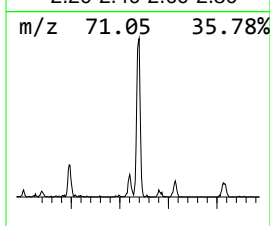
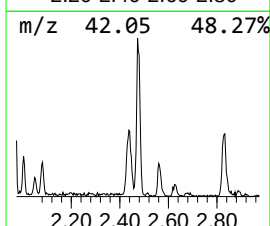
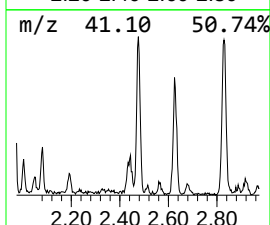
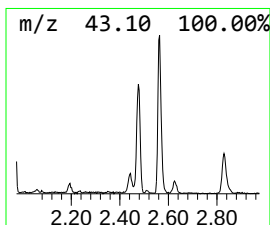
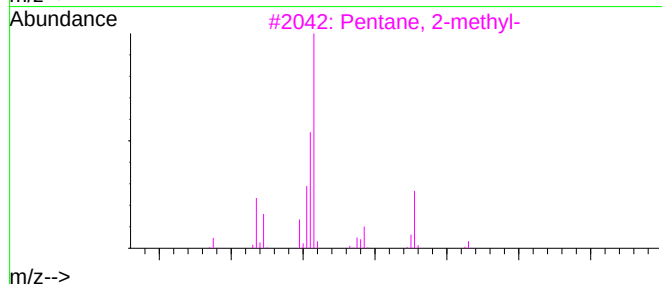
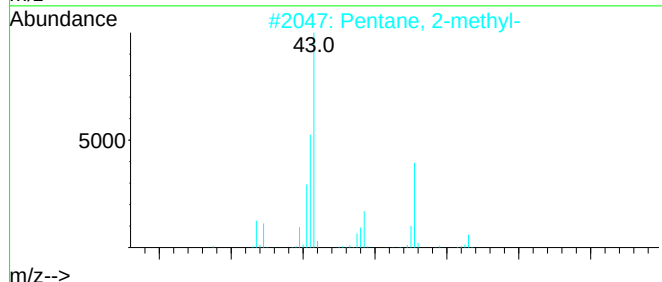
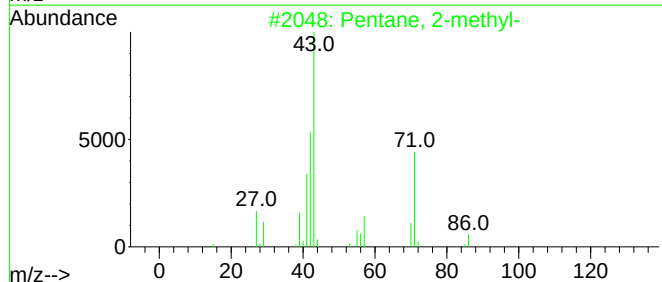
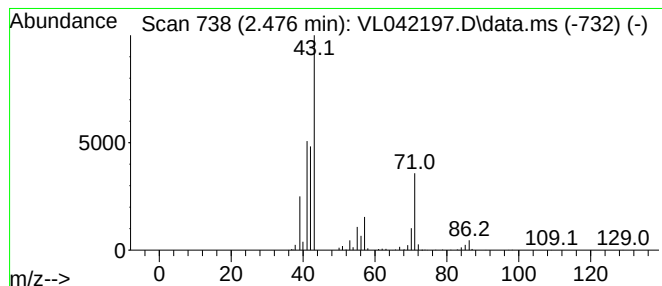
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Peak Number 5 Pentane, 2-methyl- Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.476 | 3.86 ppbv | 264158 | Bromochloromethane | 2.790 |

| Hit# of 5 | Tentative ID       | MW | MolForm | CAS#        | Qual |
|-----------|--------------------|----|---------|-------------|------|
| 1         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 90   |
| 2         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 90   |
| 3         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 90   |
| 4         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 86   |
| 5         | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 86   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042197.D  
Acq On : 28 Mar 2025 01:20  
Operator : SY/MD  
Sample : Q1669-05  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

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

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

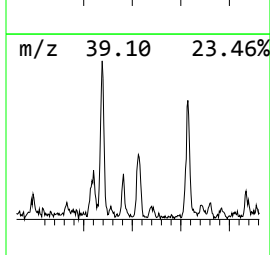
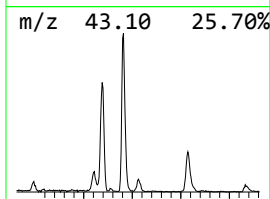
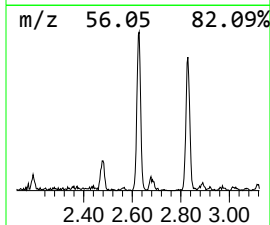
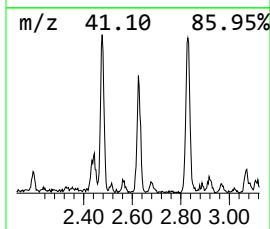
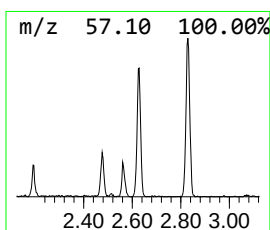
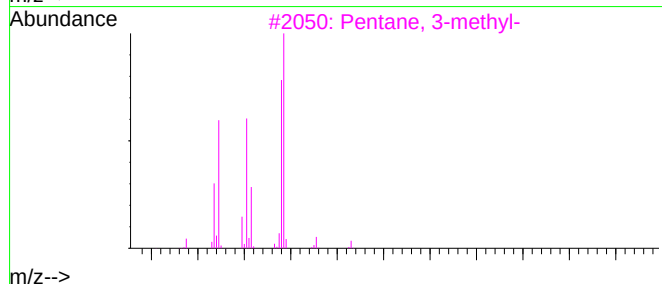
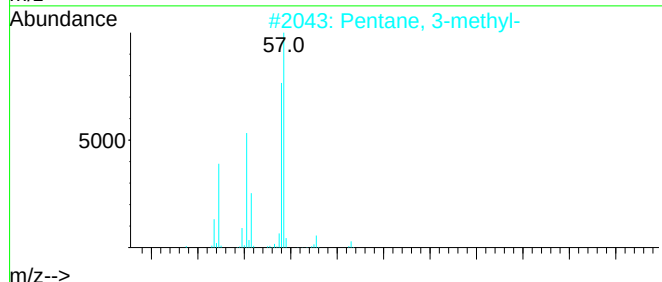
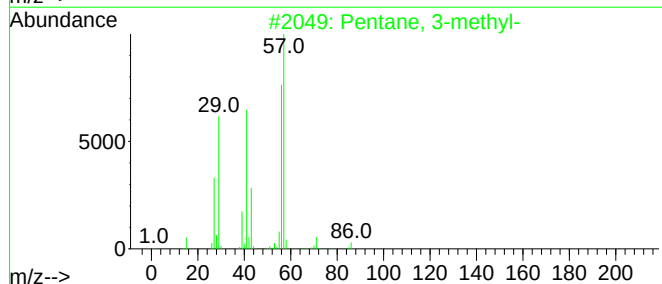
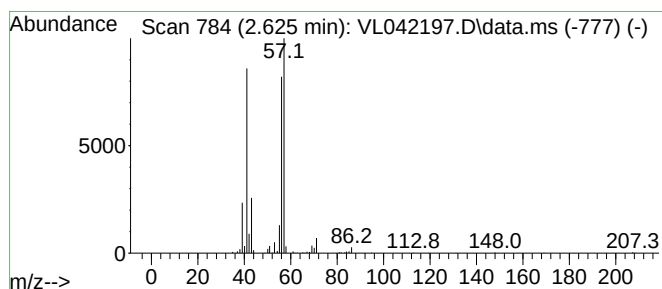
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Peak Number 6 Pentane, 3-methyl- Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.625 | 2.01 ppbv | 137149 | Bromochloromethane | 2.790 |

| Hit# of 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|-----------|------------------------------------|-----|---------|-------------|------|
| 1         | Pentane, 3-methyl-                 | 86  | C6H14   | 000096-14-0 | 86   |
| 2         | Pentane, 3-methyl-                 | 86  | C6H14   | 000096-14-0 | 72   |
| 3         | Pentane, 3-methyl-                 | 86  | C6H14   | 000096-14-0 | 64   |
| 4         | 3,4-Dimethyldihydrofuran-2,5-dione | 128 | C6H8O3  | 007475-92-5 | 53   |
| 5         | 1-Hexene, 4-methyl-                | 98  | C7H14   | 003769-23-1 | 40   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042197.D  
Acq On : 28 Mar 2025 01:20  
Operator : SY/MD  
Sample : Q1669-05  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

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

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TIC Integration Parameters: LSCINT.P

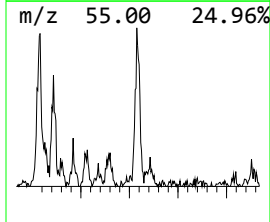
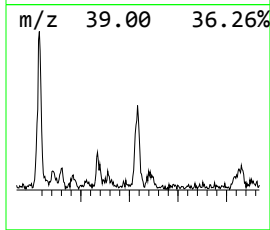
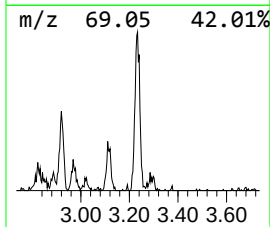
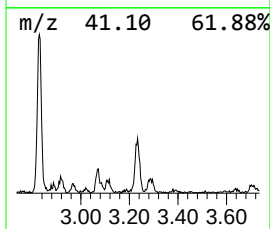
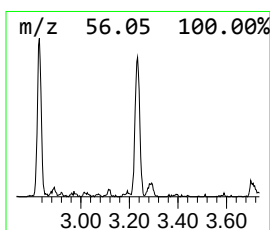
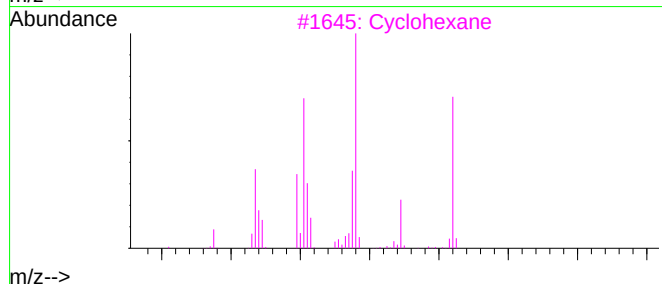
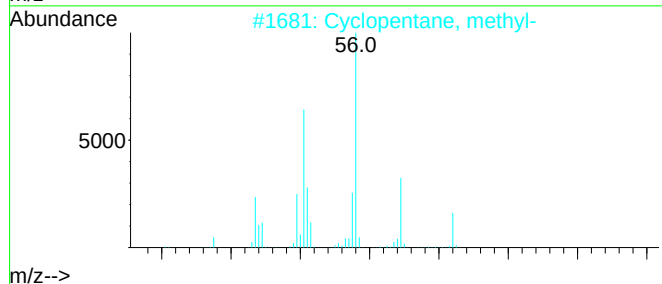
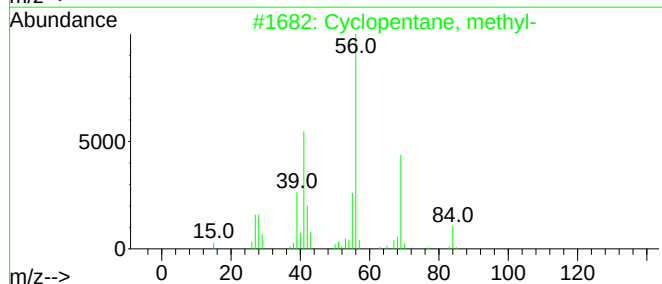
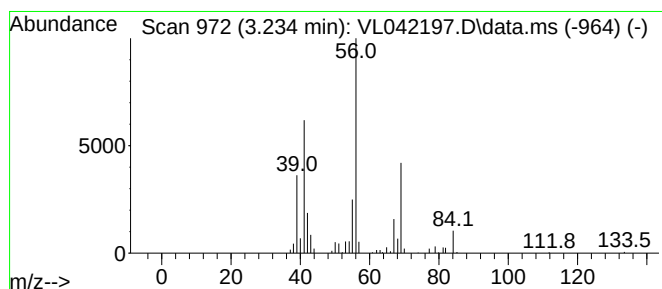
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Peak Number 7 Cyclopentane, methyl- Concentration Rank 6

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 3.234 | 1.58 ppbv | 108047 | Bromochloromethane | 2.790 |

| Hit# of 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|-----------|-------------------------------|-----|---------|-------------|------|
| 1         | Cyclopentane, methyl-         | 84  | C6H12   | 000096-37-7 | 90   |
| 2         | Cyclopentane, methyl-         | 84  | C6H12   | 000096-37-7 | 80   |
| 3         | Cyclohexane                   | 84  | C6H12   | 000110-82-7 | 72   |
| 4         | Cyclopentanone, 2,2-dimethyl- | 112 | C7H12O  | 004541-32-6 | 72   |
| 5         | 1H-Tetrazole, 5-methyl-       | 84  | C2H4N4  | 004076-36-2 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042197.D  
Acq On : 28 Mar 2025 01:20  
Operator : SY/MD  
Sample : Q1669-05  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

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

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

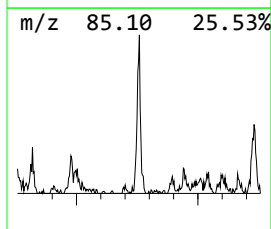
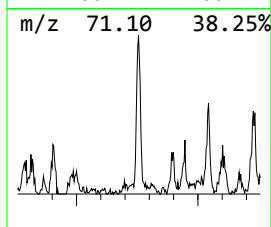
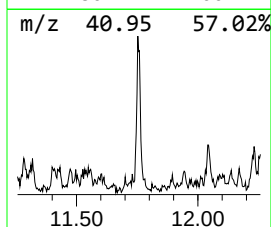
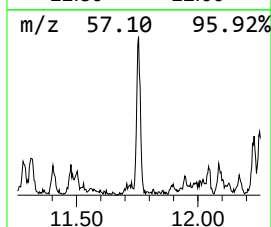
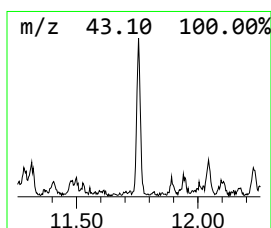
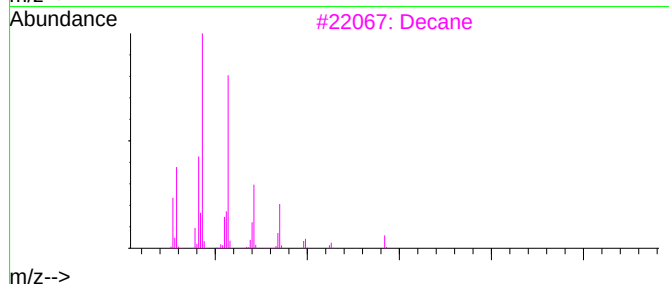
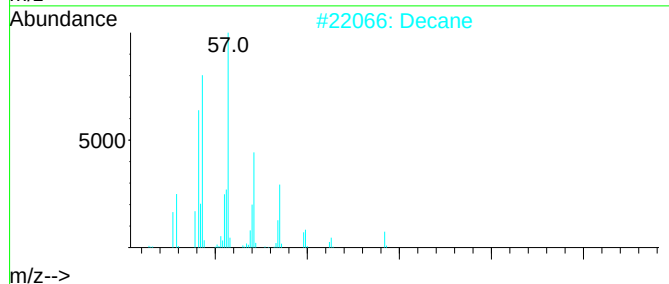
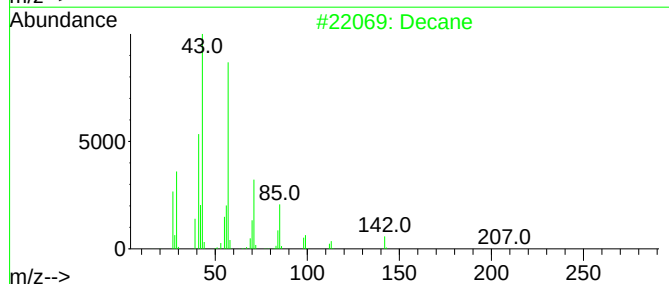
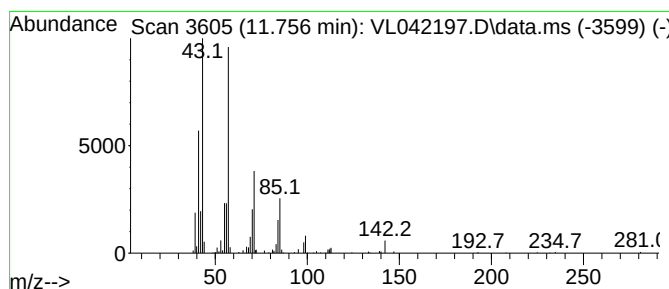
\*\*\*\*\*

Peak Number 8 Decane Concentration Rank 8

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.  |
|--------|-----------|--------|------------------|-------|
| 11.756 | 1.13 ppbv | 183893 | Chlorobenzene-d5 | 8.885 |

| Hit# of 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|-----------|--------------|-----|---------|-------------|------|
| 1         | Decane       | 142 | C10H22  | 000124-18-5 | 93   |
| 2         | Decane       | 142 | C10H22  | 000124-18-5 | 91   |
| 3         | Decane       | 142 | C10H22  | 000124-18-5 | 90   |
| 4         | Decane       | 142 | C10H22  | 000124-18-5 | 83   |
| 5         | Undecane     | 156 | C11H24  | 001120-21-4 | 72   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042197.D  
Acq On : 28 Mar 2025 01:20  
Operator : SY/MD  
Sample : Q1669-05  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

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

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|-------|---------|------|
|                    |        |         |       |          | #                     | RT    | Resp    | Conc |
| Butane             | 1.622  | 14.6    | ppbv  | 999323   | 1                     | 2.790 | 683759  | 10.0 |
| Pentane            | 1.965  | 5.7     | ppbv  | 385999   | 1                     | 2.790 | 683759  | 10.0 |
| unknown2.441       | 2.441  | 1.2     | ppbv  | 80338    | 1                     | 2.790 | 683759  | 10.0 |
| Pentane, 2-methyl- | 2.476  | 3.9     | ppbv  | 264158   | 1                     | 2.790 | 683759  | 10.0 |
| Pentane, 3-methyl- | 2.625  | 2.0     | ppbv  | 137149   | 1                     | 2.790 | 683759  | 10.0 |
| Cyclopentane, m... | 3.234  | 1.6     | ppbv  | 108047   | 1                     | 2.790 | 683759  | 10.0 |
| Decane             | 11.756 | 1.1     | ppbv  | 183893   | 3                     | 8.885 | 1630050 | 10.0 |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-DUP-1-3262025                              | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-06                                        | 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 |
| VL042204.D        | 1         |           | 03/31/25 11:06 | VL033125      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.46          | 2.27           | J         | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.43          | 0.89           | 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                | 2.00          | 5.90           |           | 0.38  | 1.47       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 0.20          | 1.12           | 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                        | 1.60          | 6.56           |           | 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                        | 24.0          | 57.0           | E         | 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             | 0.51          | 1.77           |           | 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                    | 1.50          | 5.16           |           | 0.76  | 1.72       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 6.20          | 18.3           |           | 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         | 2.30          | 10.7           |           | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 5.60          | 17.9           |           | 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           | 0.40          | 1.64           | J         | 0.37  | 2.05       | ug/m3 |
| 108-88-3       | Toluene                        | 9.70          | 36.5           |           | 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:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-DUP-1-3262025                              | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-06                                        | 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 |
| VL042204.D        | 1         |           | 03/31/25 11:06 | VL033125      |

| 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             | 1.30          | 5.65           |           | 0.52                | 2.17       | ug/m3   |
| 179601-23-1                           | m/p-Xylene                | 5.10          | 22.1           |           | 0.91                | 4.34       | ug/m3   |
| 95-47-6                               | o-Xylene                  | 1.90          | 8.25           |           | 0.52                | 2.17       | ug/m3   |
| 100-42-5                              | Styrene                   | 1.40          | 5.96           |           | 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    | 0.43          | 2.11           | J         | 0.54                | 2.46       | ug/m3   |
| 95-63-6                               | 1,2,4-Trimethylbenzene    | 1.40          | 6.88           |           | 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               | 0.43          | 2.25           |           | 0.42                | 0.52       | ug/m3   |
| 622-96-8                              | 4-Ethyltoluene            | 0.44          | 2.16           | J         | 0.59                | 2.46       | ug/m3   |
| 110-54-3                              | Hexane                    | 4.40          | 15.5           |           | 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   | 10.1          |                |           | 70 (65) - 130 (135) | 101%       | SPK: 10 |
| <b>INTERNAL STANDARDS</b>             |                           |               |                |           |                     |            |         |
| 74-97-5                               | Bromochloromethane        | 185000        |                | 2.806     |                     |            |         |
| 540-36-3                              | 1,4-Difluorobenzene       | 529000        |                | 3.984     |                     |            |         |
| 3114-55-4                             | Chlorobenzene-d5          | 478000        |                | 8.907     |                     |            |         |
| <b>TENTATIVE IDENTIFIED COMPOUNDS</b> |                           |               |                |           |                     |            |         |
| 75-45-6                               | Chlorodifluoromethane     | 0.31          |                | J         |                     | 1.48       | ppbv    |
| 115-07-1                              | Propene                   | 17.2          |                | J         |                     | 1.49       | ppbv    |
| 000115-11-7                           | 1-Propene, 2-methyl-      | 6.80          |                | J         |                     | 1.61       | ppbv    |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-DUP-1-3262025                              | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-06                                        | 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 |
| VL042204.D        | 1         |           | 03/31/25 11:06 | VL033125      |

| CAS Number  | Parameter             | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|-------------|-----------------------|---------------|----------------|-----------|-----|------------|-------|
| 000106-97-8 | Butane                | 8.30          |                | J         |     | 1.63       | ppbv  |
| 000109-66-0 | Pentane               | 8.80          |                | J         |     | 1.98       | ppbv  |
| 000079-29-8 | Butane, 2,3-dimethyl- | 3.30          |                | J         |     | 2.45       | ppbv  |
| 000107-83-5 | Pentane, 2-methyl-    | 8.90          |                | J         |     | 2.49       | ppbv  |
| 000096-14-0 | Pentane, 3-methyl-    | 4.90          |                | J         |     | 2.64       | ppbv  |
| 000096-37-7 | Cyclopentane, methyl- | 4.30          |                | J         |     | 3.25       | ppbv  |
| 000108-87-2 | Cyclohexane, methyl-  | 2.50          |                | J         |     | 5.71       | ppbv  |
| 000108-94-1 | Cyclohexanone         | 2.20          |                | J         |     | 9.65       | ppbv  |
| 103-65-1    | n-propylbenzene       | 0.23          |                | J         |     | 11.0       | ppbv  |

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\VL033125\  
 Data File : VL042204.D  
 Acq On : 31 Mar 2025 11:06  
 Operator : SY/MD  
 Sample : Q1669-06  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-DUP-1-3262025

Quant Time: Apr 01 03:33:11 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 04/01/2025  
 Supervised By : Mahesh Dadoda 04/01/2025

| Compound                    | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|-----------|-------|----------|----------|------------|----------|
| Internal Standards          |           |       |          |          |            |          |
| 1) Bromochloromethane       | 2.806     | 49    | 184538   | 10.000   | ppbv       | 0.02     |
| 33) 1,4-Difluorobenzene     | 3.984     | 114   | 528809   | 10.000   | ppbv       | 0.03     |
| 55) Chlorobenzene-d5        | 8.907     | 117   | 477707   | 10.000   | ppbv       | 0.03     |
| System Monitoring Compounds |           |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.399    | 95    | 395364   | 10.078   | ppbv       | 0.03     |
| Spiked Amount               | 10.000    | Range | 65 - 135 | Recovery | = 100.800% |          |
| Target Compounds            |           |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane  | 1.505     | 85    | 12624    | 0.463    | ppbv       | 99       |
| 3) Chlorodifluoromethane    | 1.483     | 51    | 8664     | 0.311    | ppbv       | 99       |
| 4) Chloromethane            | 1.538     | 50    | 4783     | 0.430    | ppbv #     | 87       |
| 9) Propene                  | 1.489     | 41    | 219989   | 17.243   | ppbv       | 96       |
| 10) Heptane                 | 5.017     | 43    | 54482    | 1.605    | ppbv       | 97       |
| 11) Trichlorofluoromethane  | 1.890     | 101   | 5277     | 0.199    | ppbv       | 85       |
| 13) Ethanol                 | 1.732     | 45    | 129111   | 107.052  | ppbv       | 83       |
| 15) Acetone                 | 1.845     | 43    | 618335m  | 23.958   | ppbv       |          |
| 20) Methylene Chloride      | 2.075     | 84    | 4857     | 0.505    | ppbv #     | 91       |
| 26) Hexane                  | 2.845     | 57    | 114579   | 4.428    | ppbv #     | 34       |
| 30) Cyclohexane             | 3.887     | 84    | 33602    | 1.496    | ppbv       | 93       |
| 34) 2-Butanone              | 2.577     | 43    | 238611   | 6.223    | ppbv       | 98       |
| 35) Carbon Tetrachloride    | 3.793     | 117   | 2894     | 0.070    | ppbv #     | 45       |
| 36) Benzene                 | 3.683     | 78    | 295232   | 5.632    | ppbv       | 98       |
| 41) Tetrahydrofuran         | 3.081     | 42    | 44873    | 2.032    | ppbv       | 99       |
| 44) 2,2,4-Trimethylpentane  | 4.677     | 57    | 203749   | 2.300    | ppbv #     | 86       |
| 50) 4-Methyl-2-Pentanone    | 5.816     | 43    | 24529m   | 0.404    | ppbv       |          |
| 53) Toluene                 | 6.969     | 91    | 601582   | 9.680    | ppbv       | 99       |
| 58) Ethyl Benzene           | 9.380     | 91    | 112145   | 1.322    | ppbv       | 97       |
| 59) m/p-Xylene              | 9.555     | 91    | 343493   | 5.070    | ppbv       | 99       |
| 60) o-Xylene                | 9.988     | 91    | 127965   | 1.884    | ppbv       | 100      |
| 61) Styrene                 | 9.895     | 104   | 46841    | 1.394    | ppbv       | 98       |
| 64) n-propylbenzene         | 11.011    | 120   | 6017     | 0.230    | ppbv       | 89       |
| 72) 4-Ethyltoluene          | 11.144    | 105   | 37267    | 0.441    | ppbv #     | 55       |
| 73) 1,3,5-Trimethylbenzene  | 11.222    | 105   | 31497    | 0.426    | ppbv       | 93       |
| 74) 1,2,4-Trimethylbenzene  | 11.555    | 105   | 117257   | 1.378    | ppbv #     | 63       |
| 79) Naphthalene             | 13.529    | 128   | 40082    | 0.431    | ppbv       | 96       |

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

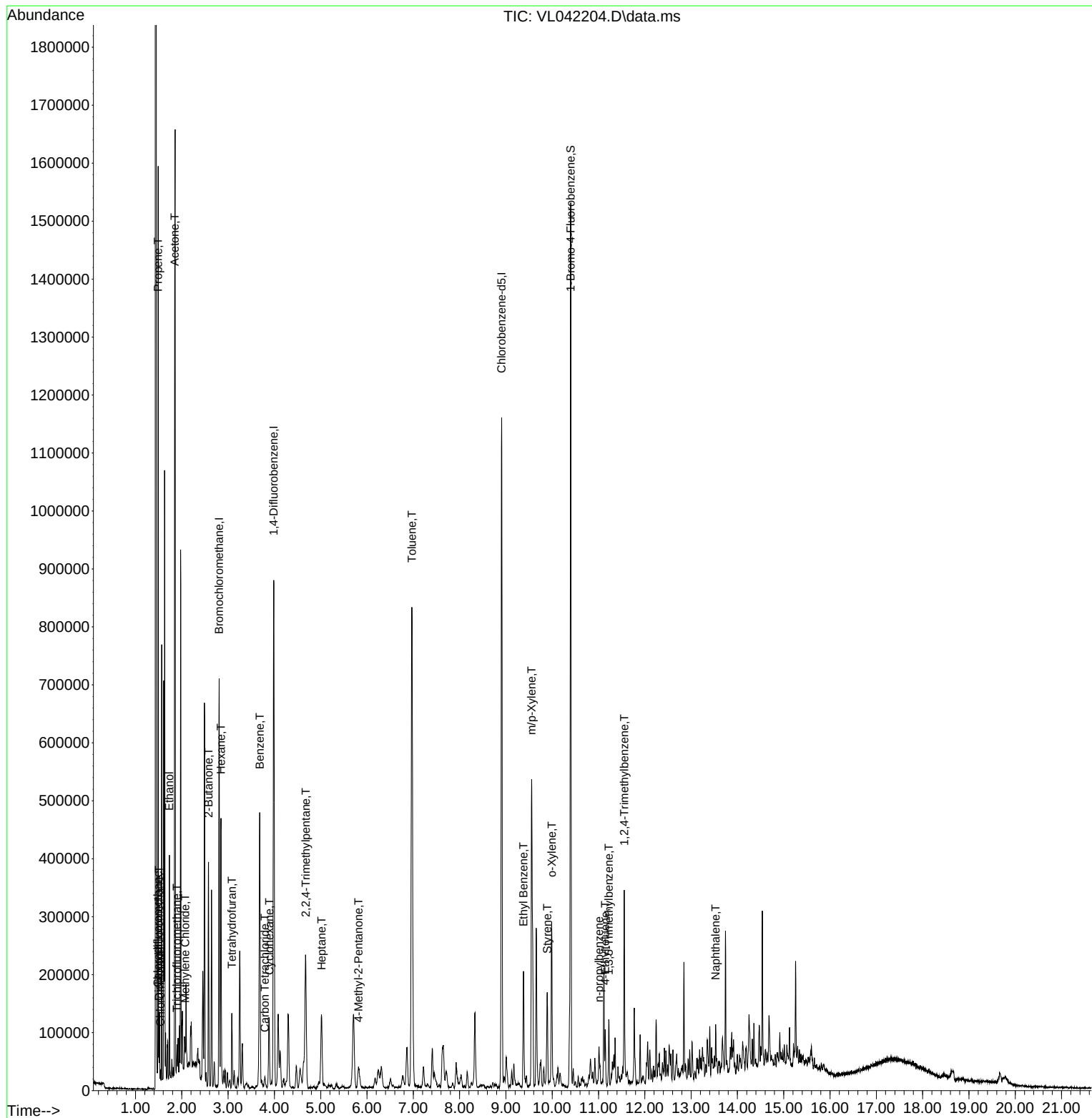
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

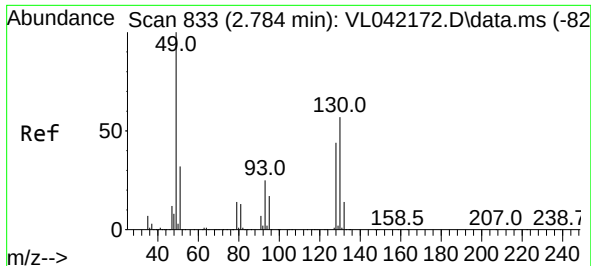
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

Quant Time: Apr 01 03:33:11 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 02:00:52 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

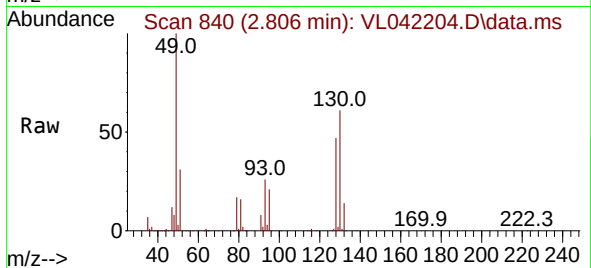
Reviewed By : Semsettin Yesilyurt 04/01/2025  
Supervised By : Mahesh Dadoda 04/01/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.806 min Scan# 84  
Delta R.T. 0.022 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

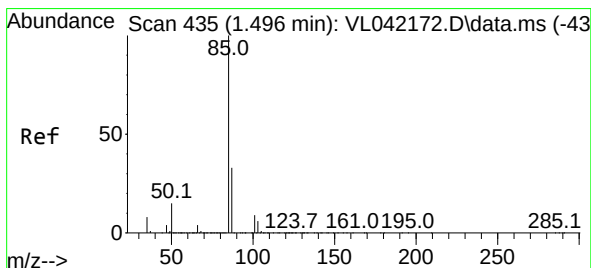
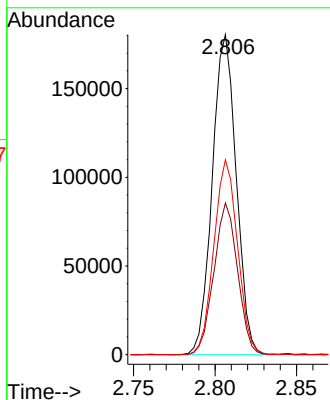
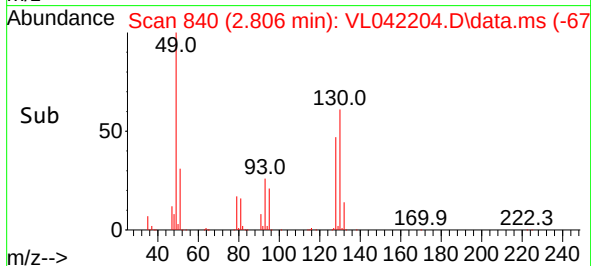
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025



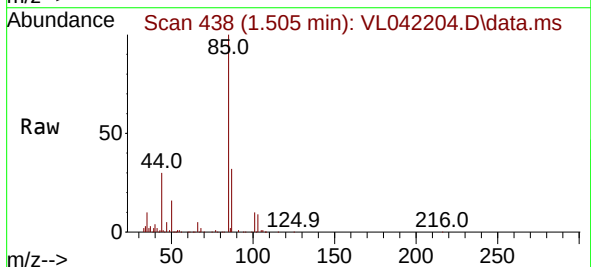
Tgt Ion: 49 Resp: 184538  
Ion Ratio Lower Upper  
49 100  
128 46.8 22.9 68.5  
130 60.3 28.8 86.4

Manual Integrations  
APPROVED

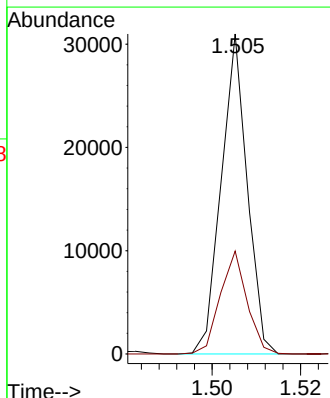
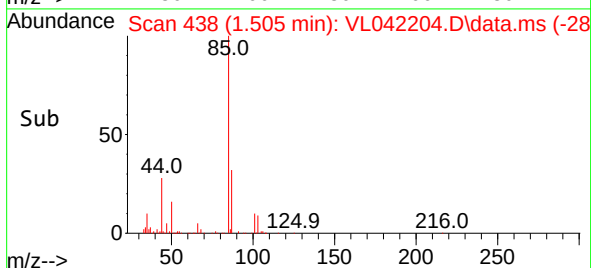
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

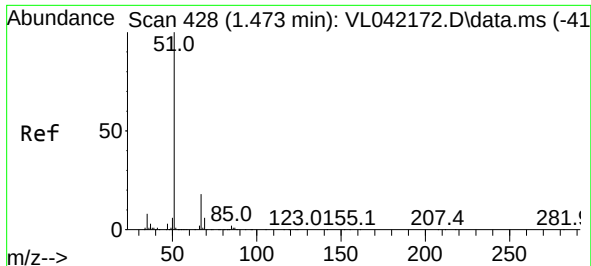


#2  
Dichlorodifluoromethane  
Concen: 0.463 ppbv  
RT: 1.505 min Scan# 438  
Delta R.T. 0.009 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06



Tgt Ion: 85 Resp: 12624  
Ion Ratio Lower Upper  
85 100  
87 32.1 26.1 39.1





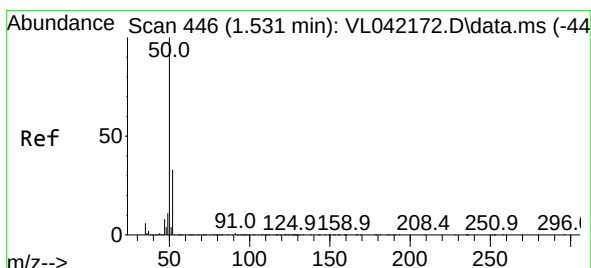
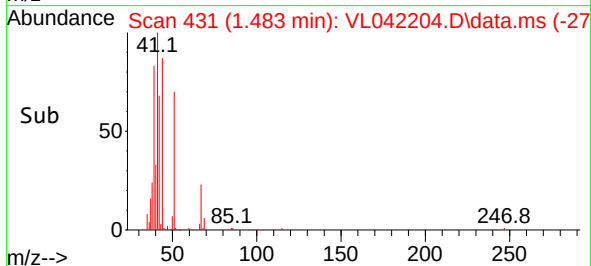
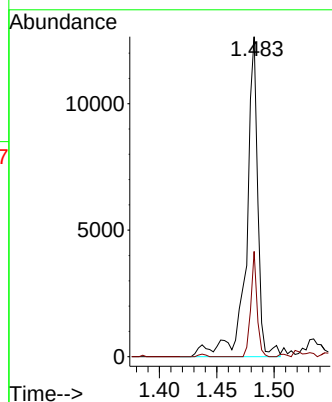
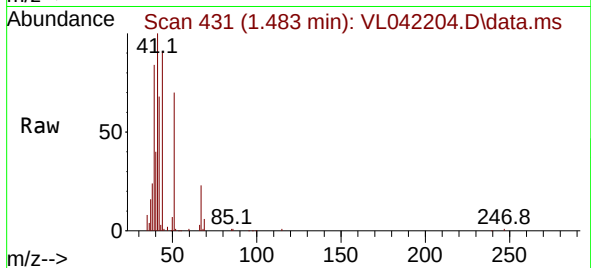
#3  
Chlorodifluoromethane  
Concen: 0.311 ppbv  
RT: 1.483 min Scan# 41  
Delta R.T. 0.009 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

Tgt Ion: 51 Resp: 8664  
Ion Ratio Lower Upper  
51 100  
67 18.5 15.0 22.6

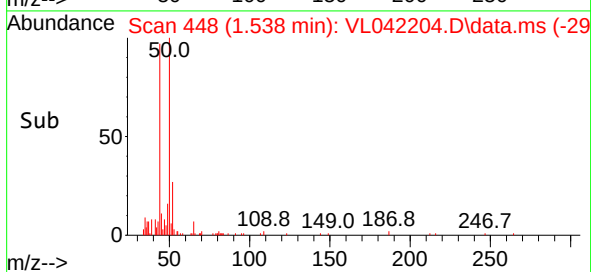
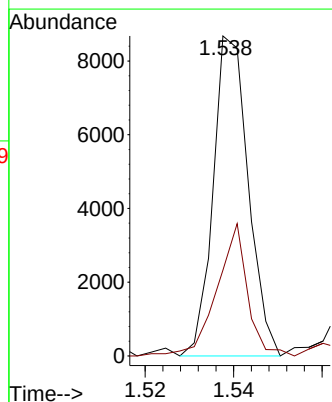
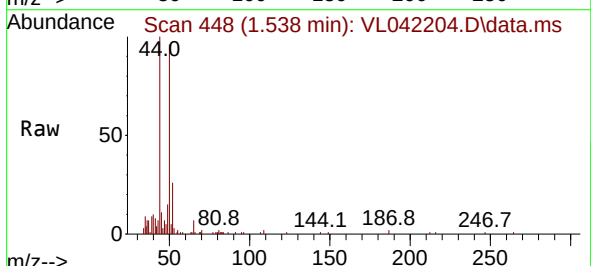
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

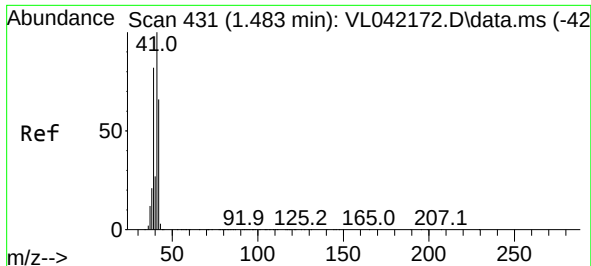


#4  
Chloromethane  
Concen: 0.430 ppbv  
RT: 1.538 min Scan# 448  
Delta R.T. 0.006 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 50 Resp: 4783  
Ion Ratio Lower Upper  
50 100  
52 25.3 26.1 39.1#







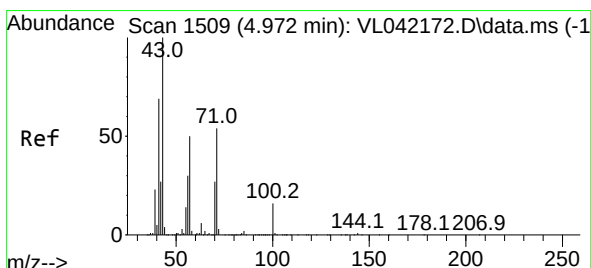
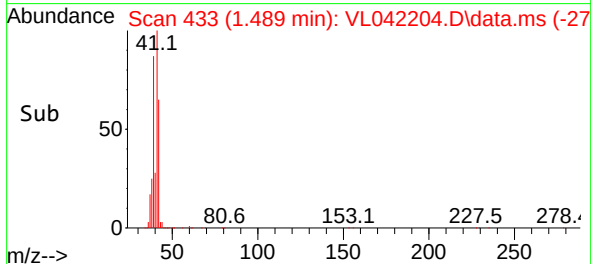
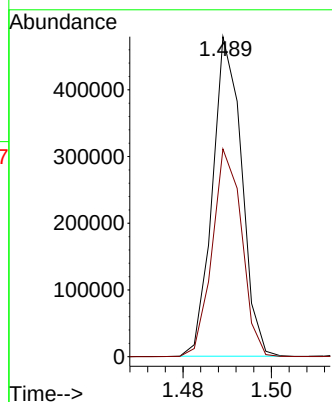
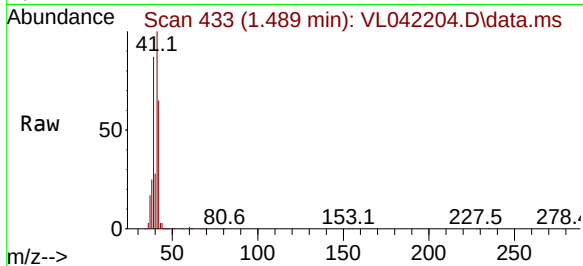
#9  
Propene  
Concen: 17.243 ppbv  
RT: 1.489 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

Tgt Ion: 41 Resp: 219989  
Ion Ratio Lower Upper  
41 100  
42 66.0 55.4 83.2

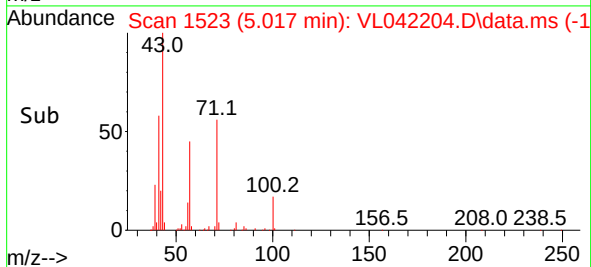
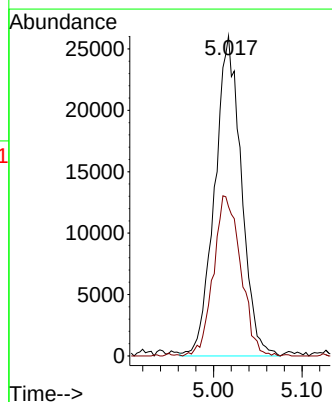
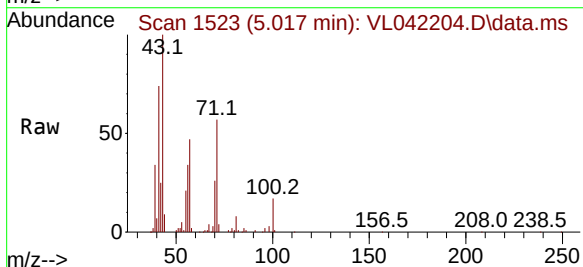
Manual Integrations  
APPROVED

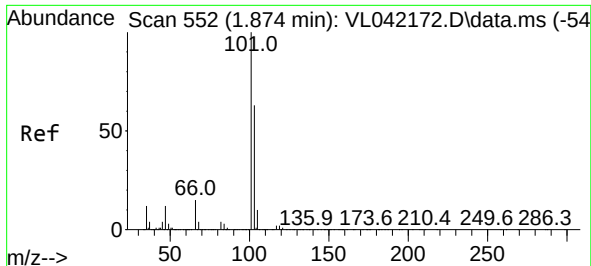
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#10  
Heptane  
Concen: 1.605 ppbv  
RT: 5.017 min Scan# 1523  
Delta R.T. 0.045 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

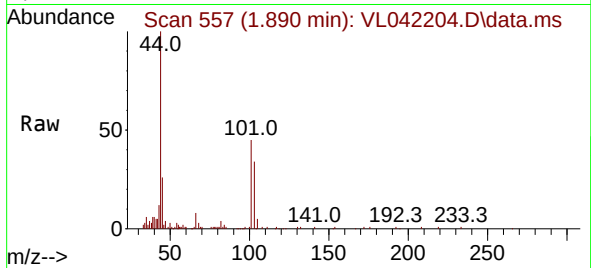
Tgt Ion: 43 Resp: 54482  
Ion Ratio Lower Upper  
43 100  
57 51.4 39.4 59.2





#11  
Trichlorofluoromethane  
Concen: 0.199 ppbv  
RT: 1.890 min Scan# 51  
Delta R.T. 0.016 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

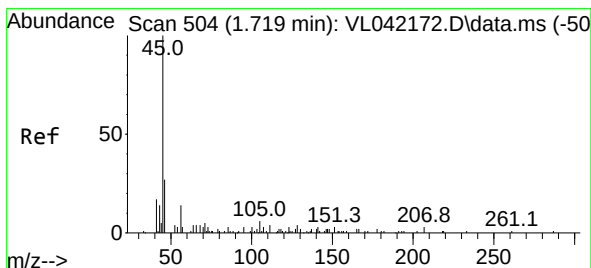
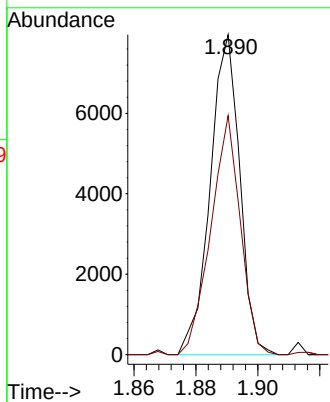
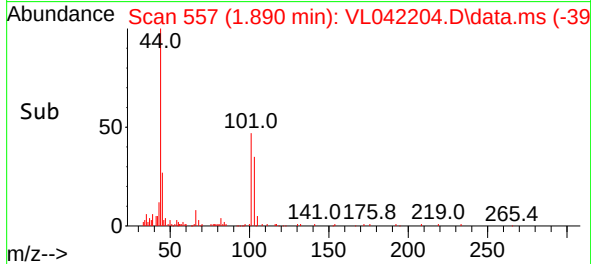
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025



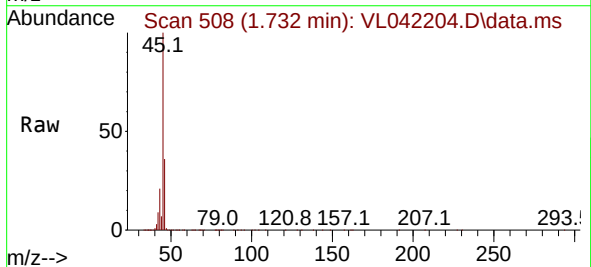
Tgt Ion:101 Resp: 527  
Ion Ratio Lower Upper  
101 100  
103 74.7 50.2 75.2

Manual Integrations  
APPROVED

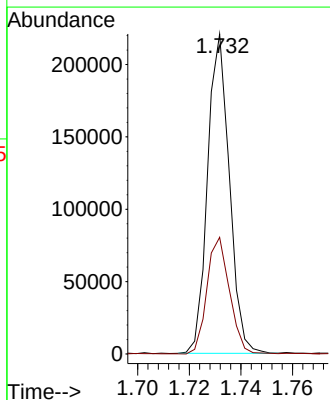
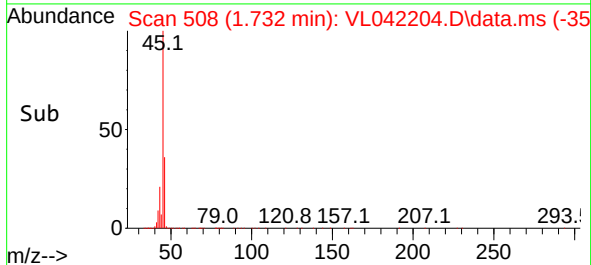
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

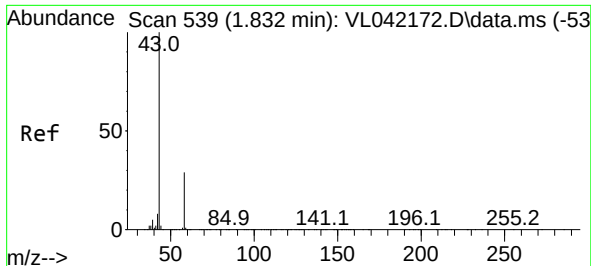


#13  
Ethanol  
Concen: 107.052 ppbv  
RT: 1.732 min Scan# 508  
Delta R.T. 0.013 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06



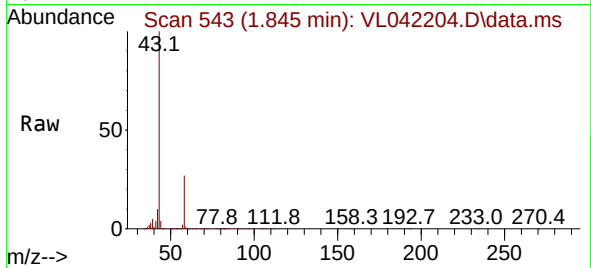
Tgt Ion: 45 Resp: 129111  
Ion Ratio Lower Upper  
45 100  
46 38.6 20.2 80.8





#15  
Acetone  
Concen: 23.958 ppbv m  
RT: 1.845 min Scan# 54  
Delta R.T. 0.013 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

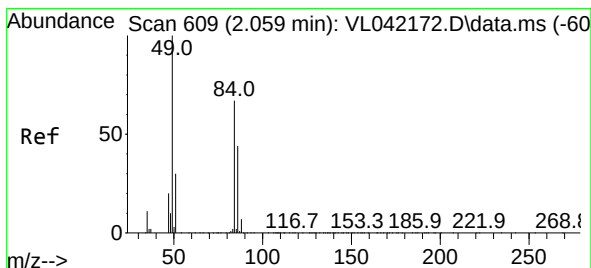
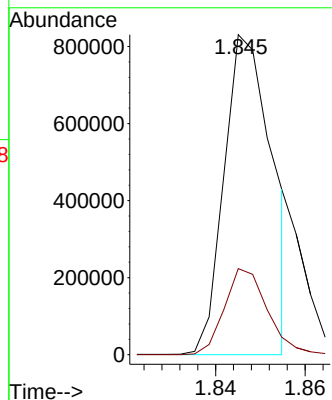
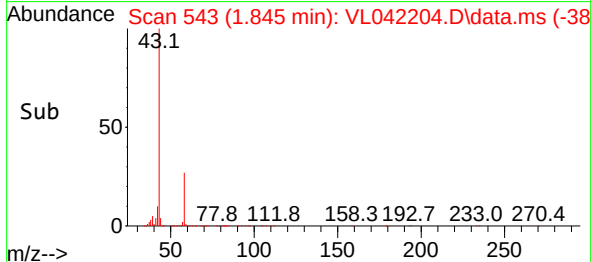
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025



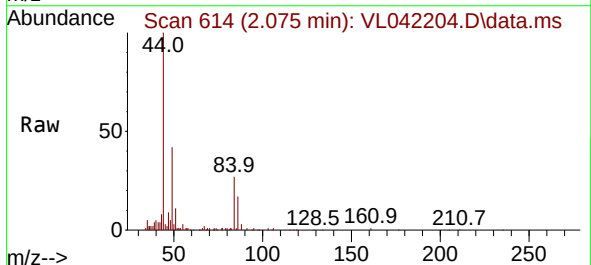
Tgt Ion: 43 Resp: 61833  
Ion Ratio Lower Upper  
43 100  
58 24.2 23.2 34.8

Manual Integrations  
APPROVED

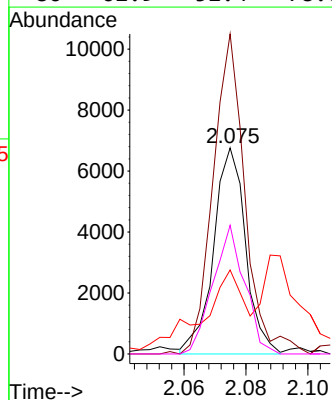
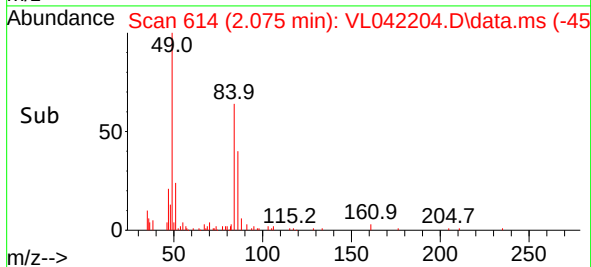
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

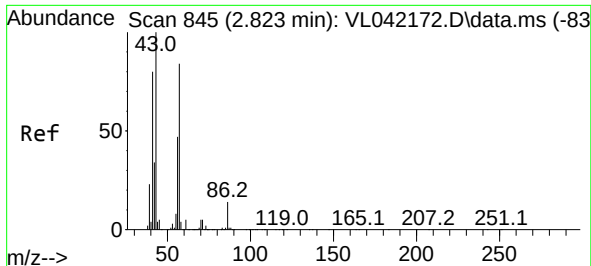


#20  
Methylene Chloride  
Concen: 0.505 ppbv  
RT: 2.075 min Scan# 614  
Delta R.T. 0.016 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06



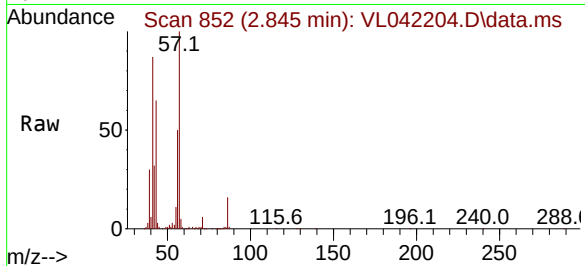
Tgt Ion: 84 Resp: 4857  
Ion Ratio Lower Upper  
84 100  
49 156.5 120.2 180.4  
51 27.1 37.4 56.0#  
86 62.9 52.4 78.6





#26  
Hexane  
Concen: 4.428 ppbv  
RT: 2.845 min Scan# 81  
Delta R.T. 0.022 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

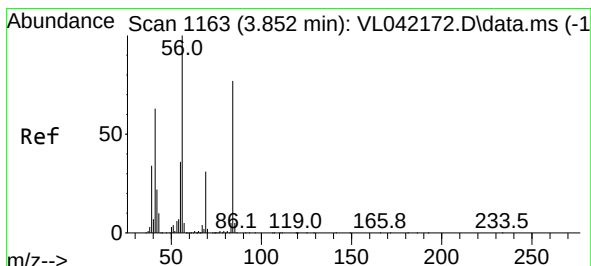
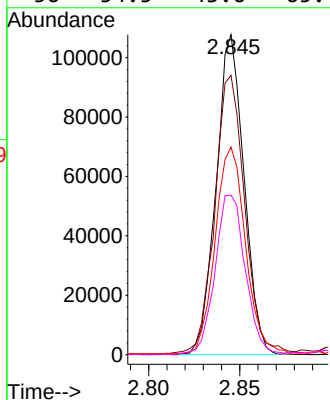
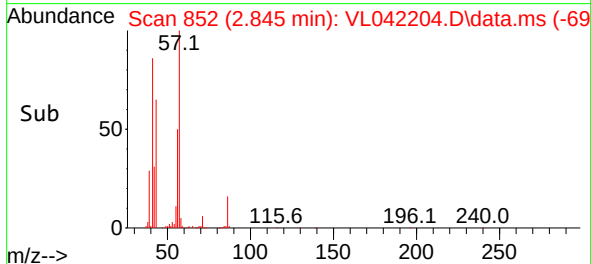
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025



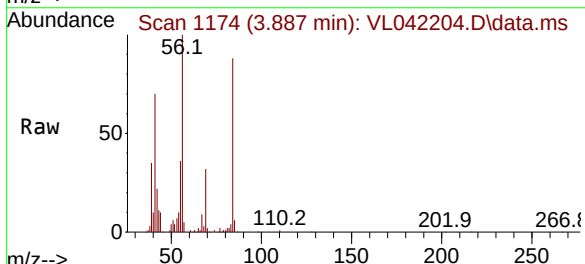
Tgt Ion: 57 Resp: 114579  
Ion Ratio Lower Upper  
57 100  
41 95.4 76.6 114.8  
43 73.9 207.8 311.8  
56 54.5 43.6 65.4

Manual Integrations  
APPROVED

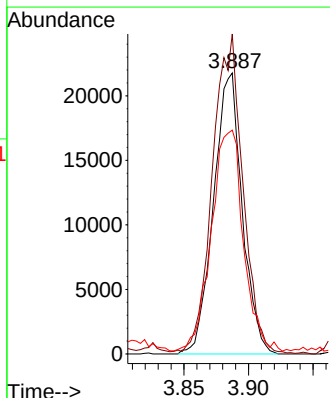
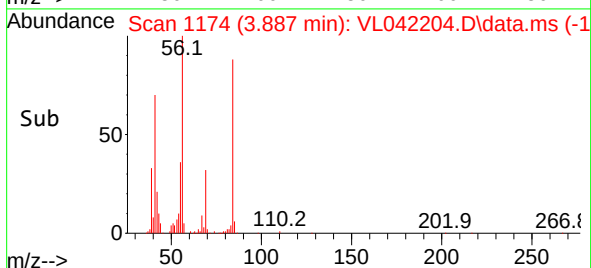
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

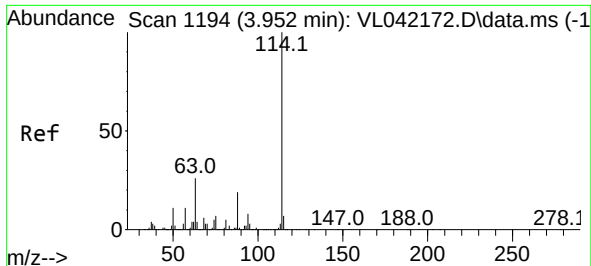


#30  
Cyclohexane  
Concen: 1.496 ppbv  
RT: 3.887 min Scan# 1174  
Delta R.T. 0.035 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06



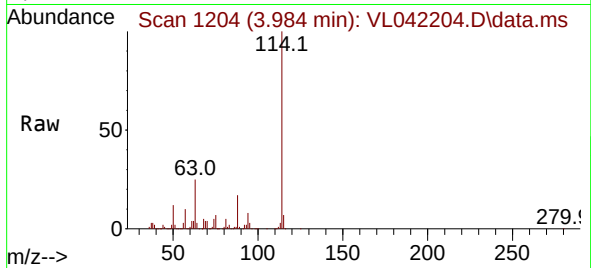
Tgt Ion: 84 Resp: 33602  
Ion Ratio Lower Upper  
84 100  
56 118.8 102.8 154.2  
41 87.3 66.5 99.7





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.984 min Scan# 1194  
Delta R.T. 0.032 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

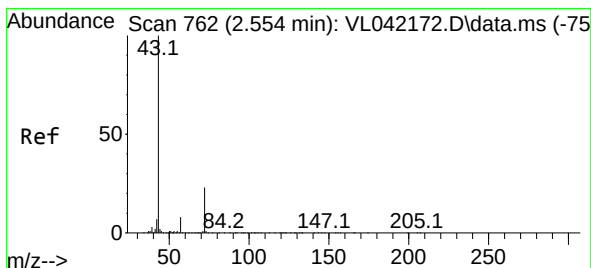
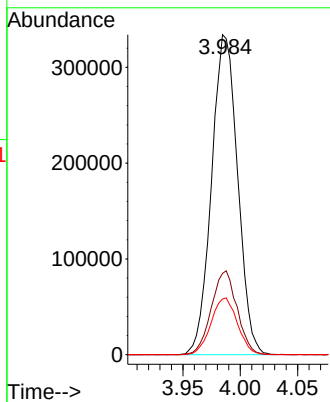
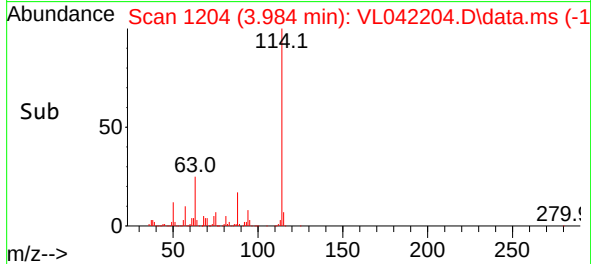
Instrument : MSVOA\_L  
ClientSampleId : SSSG-DUP-1-3262025



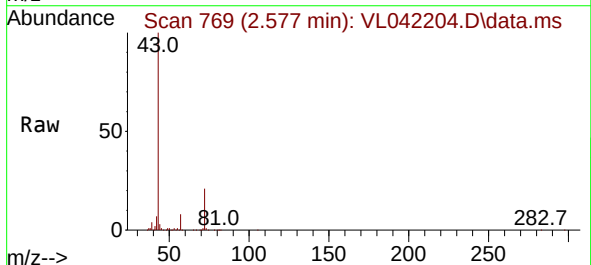
Tgt Ion:114 Resp: 528809  
Ion Ratio Lower Upper  
114 100  
63 25.9 20.7 31.1  
88 17.9 15.0 22.4

Manual Integrations  
APPROVED

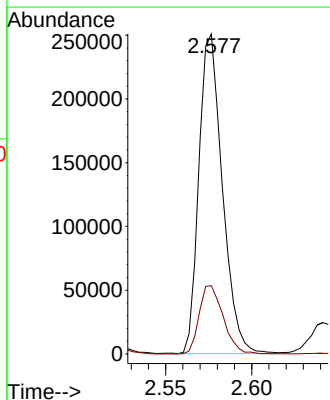
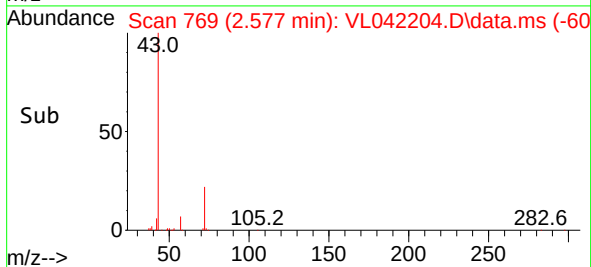
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

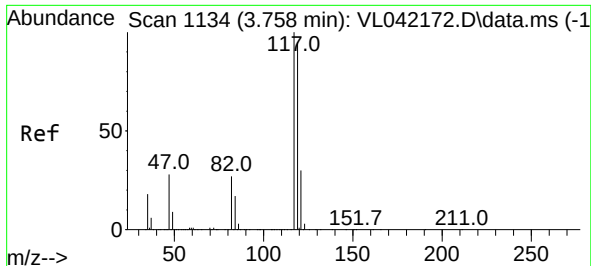


#34  
2-Butanone  
Concen: 6.223 ppbv  
RT: 2.577 min Scan# 769  
Delta R.T. 0.022 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06



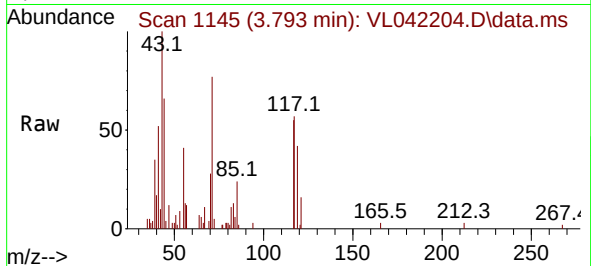
Tgt Ion: 43 Resp: 238611  
Ion Ratio Lower Upper  
43 100  
72 21.9 18.2 27.2





#35  
Carbon Tetrachloride  
Concen: 0.070 ppbv  
RT: 3.793 min Scan# 1114  
Delta R.T. 0.035 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

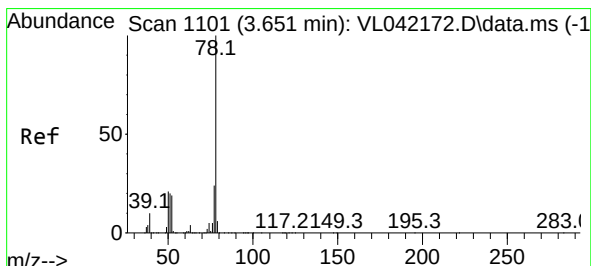
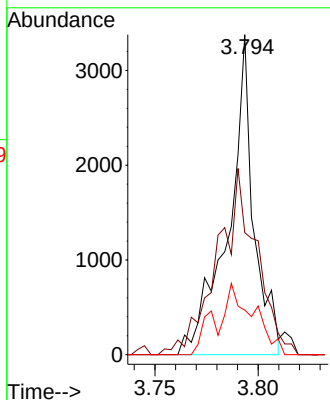
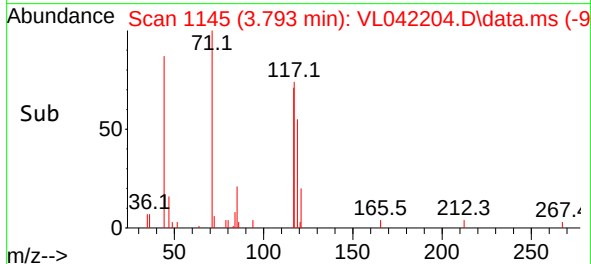
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025



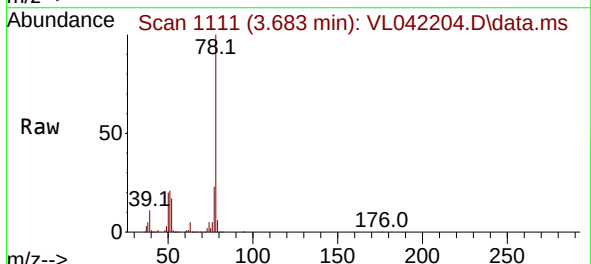
Tgt Ion: 117 Resp: 2894  
Ion Ratio Lower Upper  
117 100  
119 33.5 76.2 114.2  
121 14.0 24.2 36.4

Manual Integrations  
APPROVED

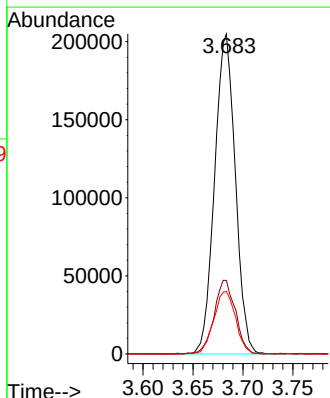
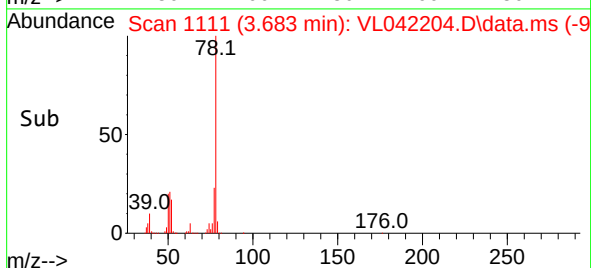
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

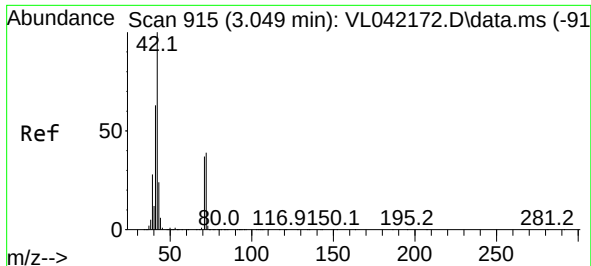


#36  
Benzene  
Concen: 5.632 ppbv  
RT: 3.683 min Scan# 1111  
Delta R.T. 0.032 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06



Tgt Ion: 78 Resp: 295232  
Ion Ratio Lower Upper  
78 100  
77 22.8 19.1 28.7  
50 19.5 16.6 24.8





#41

Tetrahydrofuran

Concen: 2.032 ppbv

RT: 3.081 min Scan# 915

Delta R.T. 0.032 min

Lab File: VL042204.D

Acq: 31 Mar 2025 11:06

Instrument :

MSVOA\_L

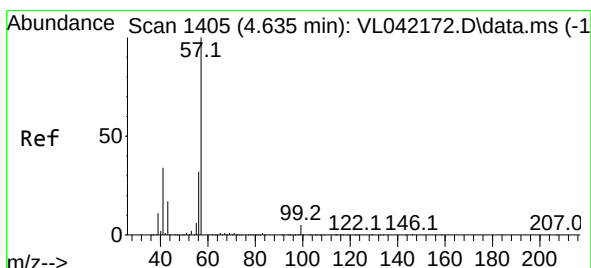
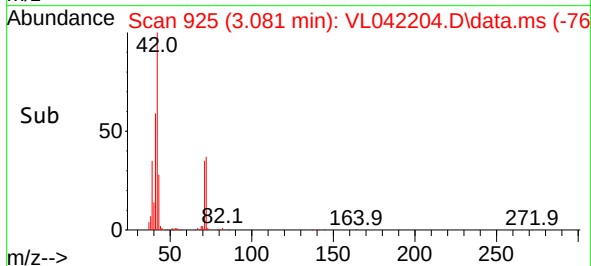
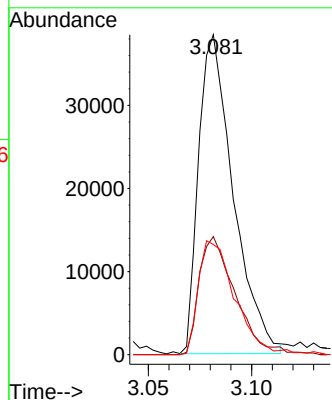
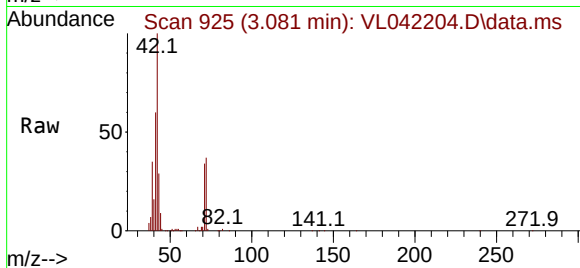
ClientSampleId :

SSSG-DUP-1-3262025

|             |             |
|-------------|-------------|
| Tgt Ion: 42 | Resp: 4487  |
| Ion Ratio   | Lower Upper |
| 42 100      |             |
| 72 38.6     | 31.4 47.0   |
| 71 37.9     | 30.2 45.4   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#44

2,2,4-Trimethylpentane

Concen: 2.300 ppbv

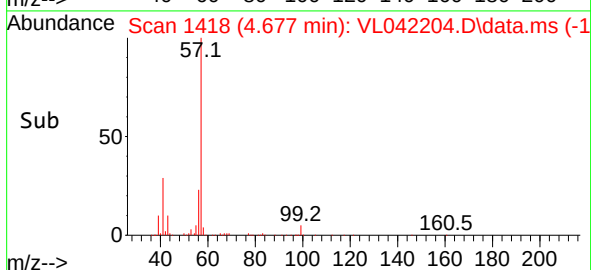
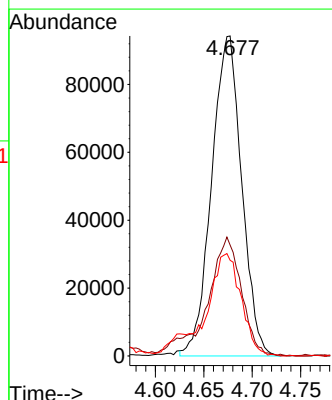
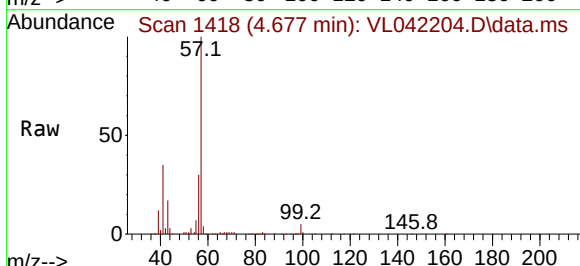
RT: 4.677 min Scan# 1418

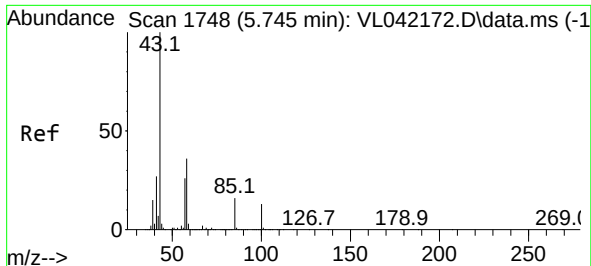
Delta R.T. 0.042 min

Lab File: VL042204.D

Acq: 31 Mar 2025 11:06

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 203749 |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 42.2     | 26.8 40.2#   |
| 56 38.6     | 25.6 38.4#   |





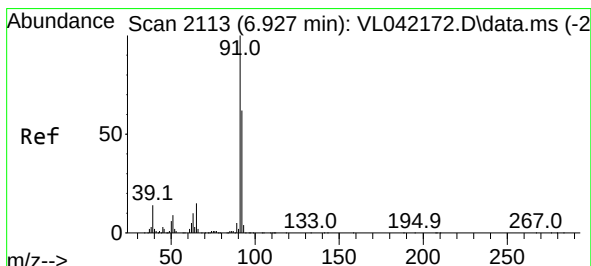
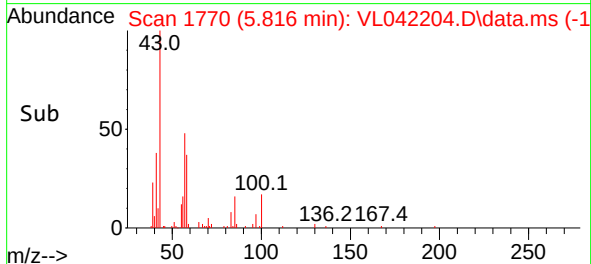
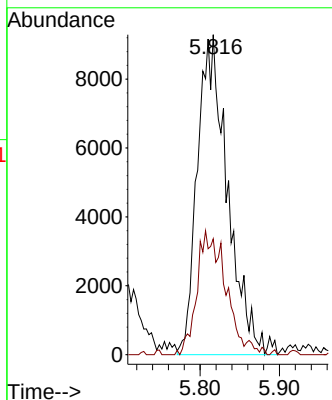
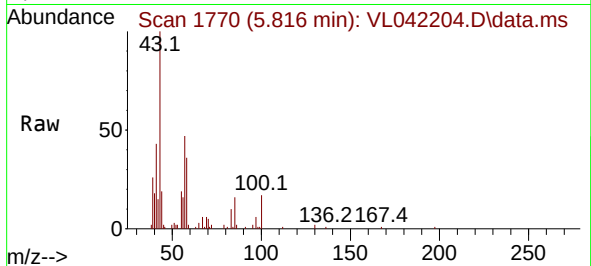
#50  
4-Methyl-2-Pentanone  
Concen: 0.404 ppbv m  
RT: 5.816 min Scan# 11  
Delta R.T. 0.071 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

Tgt Ion: 43 Resp: 24529  
Ion Ratio Lower Upper  
43 100  
58 37.2 29.0 43.6

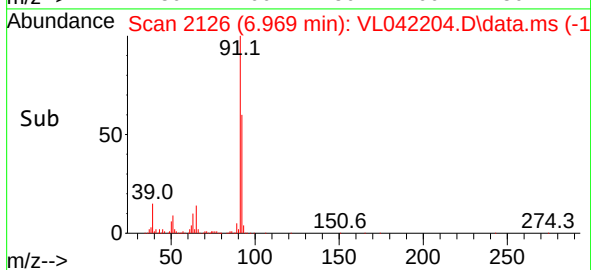
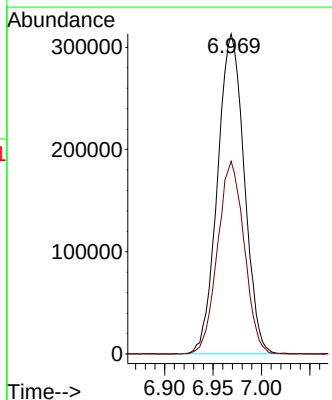
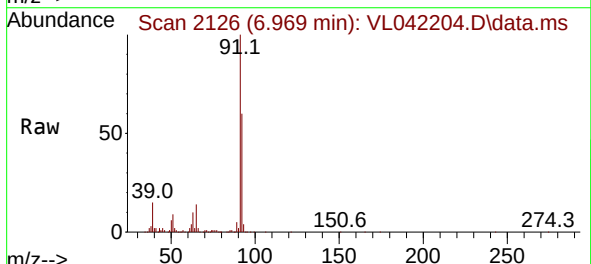
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

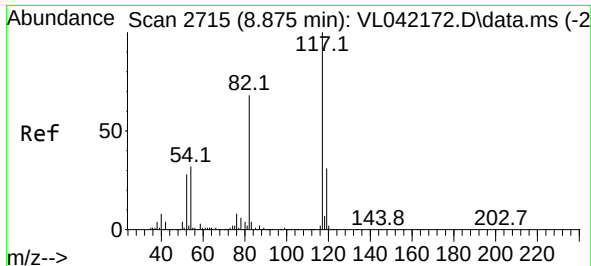


#53  
Toluene  
Concen: 9.680 ppbv  
RT: 6.969 min Scan# 2126  
Delta R.T. 0.042 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 91 Resp: 601582  
Ion Ratio Lower Upper  
91 100  
92 60.0 48.4 72.6

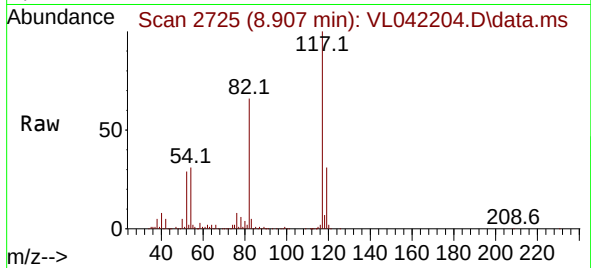






#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.907 min Scan# 21  
Delta R.T. 0.032 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

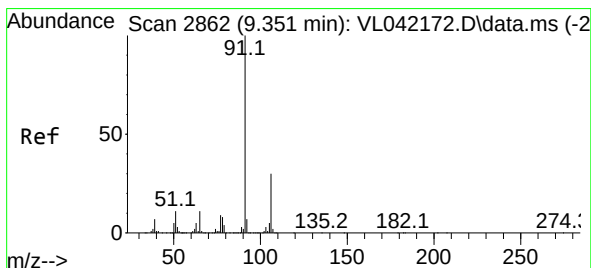
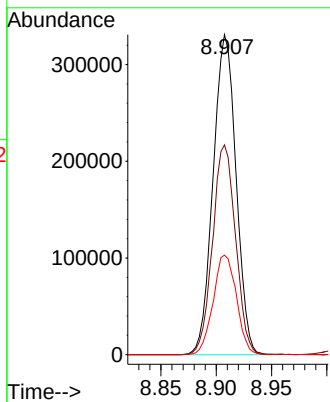
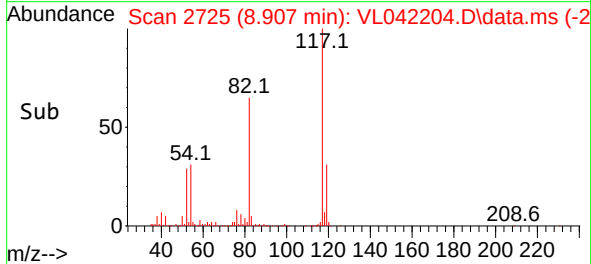
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025



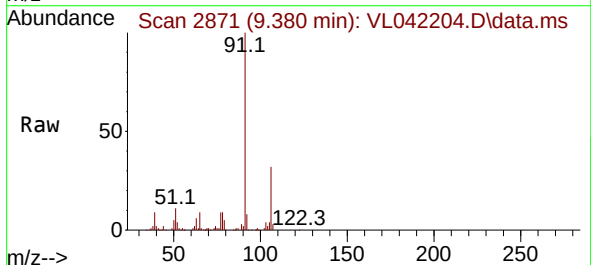
Tgt Ion: 117 Resp: 47770  
Ion Ratio Lower Upper  
117 100  
82 65.6 55.8 83.6  
119 31.7 25.5 38.3

Manual Integrations  
APPROVED

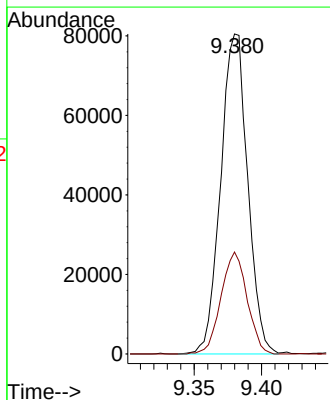
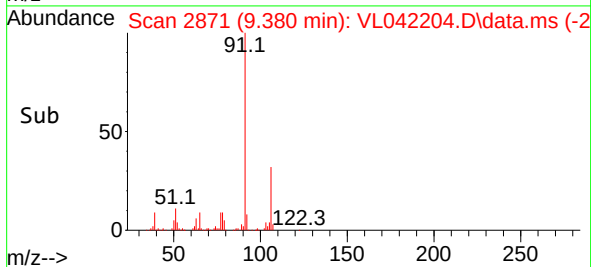
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

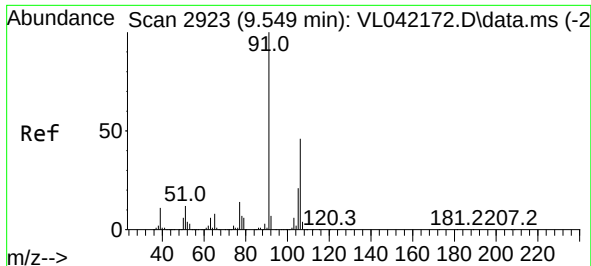


#58  
Ethyl Benzene  
Concen: 1.322 ppbv  
RT: 9.380 min Scan# 2871  
Delta R.T. 0.029 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06



Tgt Ion: 91 Resp: 112145  
Ion Ratio Lower Upper  
91 100  
106 31.9 24.2 36.2





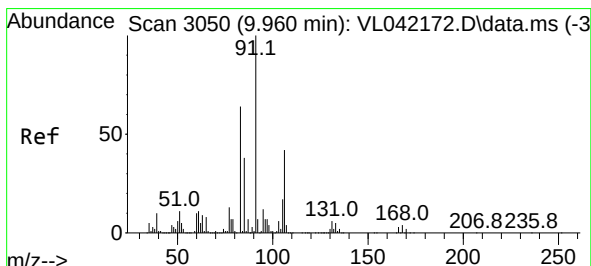
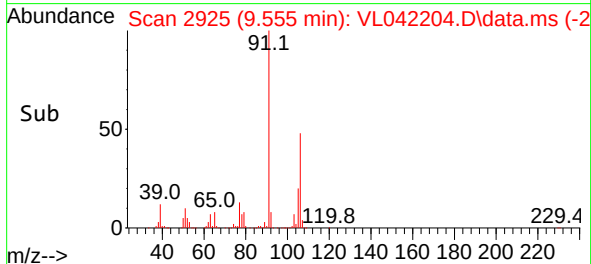
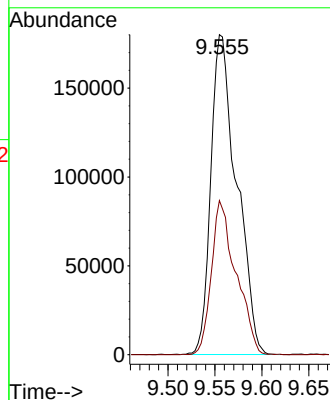
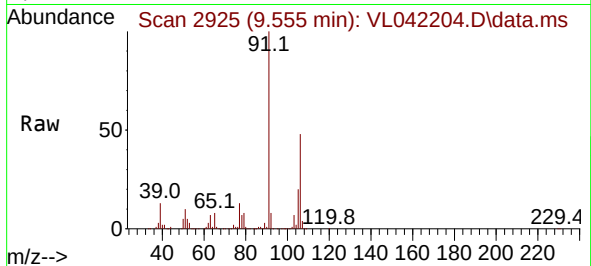
#59  
m/p-Xylene  
Concen: 5.070 ppbv  
RT: 9.555 min Scan# 2923  
Delta R.T. 0.006 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

Tgt Ion: 91 Resp: 34349  
Ion Ratio Lower Upper  
91 100  
106 46.1 36.4 54.6

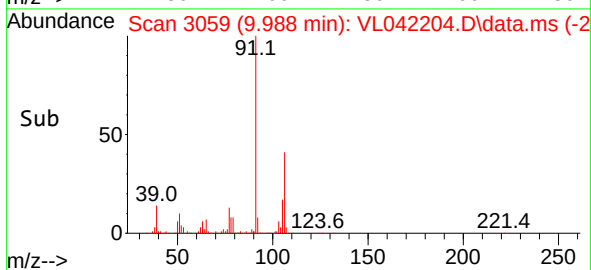
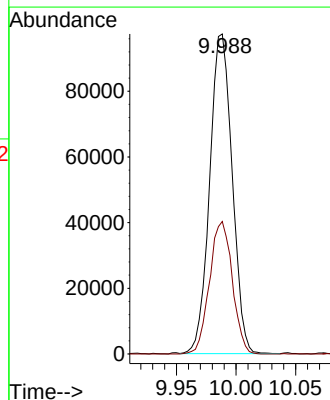
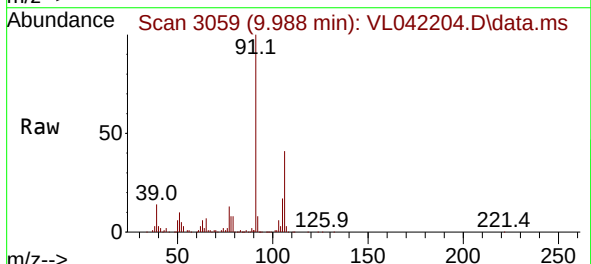
Manual Integrations  
APPROVED

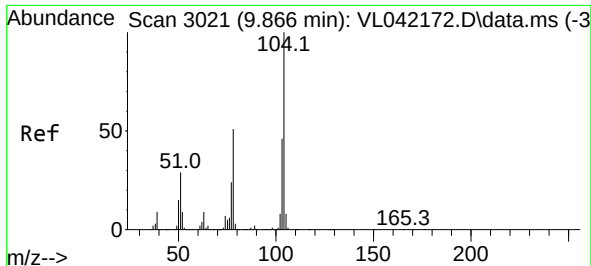
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#60  
o-Xylene  
Concen: 1.884 ppbv  
RT: 9.988 min Scan# 3059  
Delta R.T. 0.029 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 91 Resp: 127965  
Ion Ratio Lower Upper  
91 100  
106 41.9 20.8 62.5





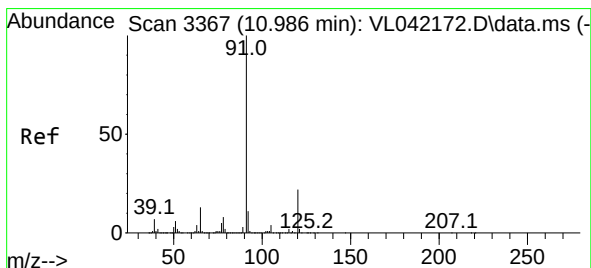
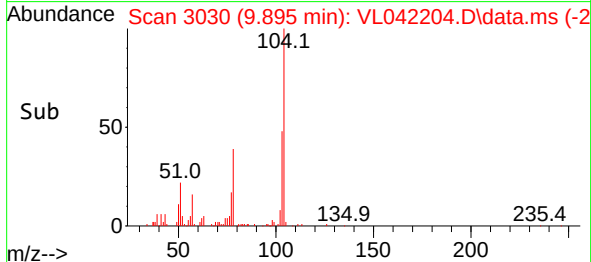
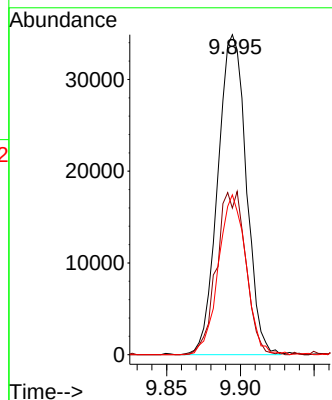
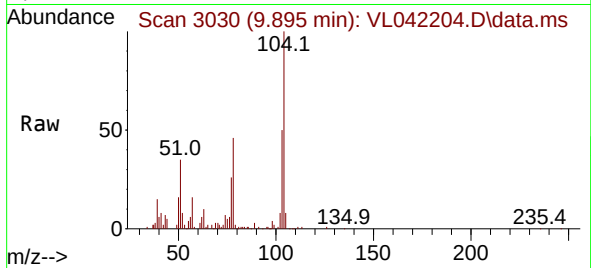
#61  
Styrene  
Concen: 1.394 ppbv  
RT: 9.895 min Scan# 3021  
Delta R.T. 0.029 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

Tgt Ion:104 Resp: 4684  
Ion Ratio Lower Upper  
104 100  
78 52.3 41.8 62.6  
103 48.8 37.0 55.4

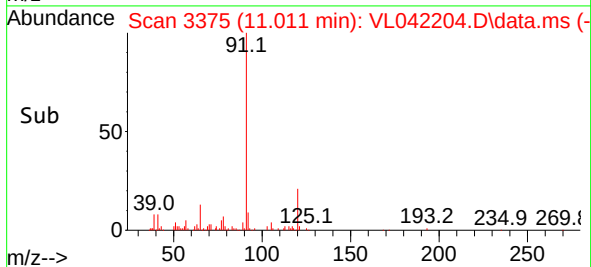
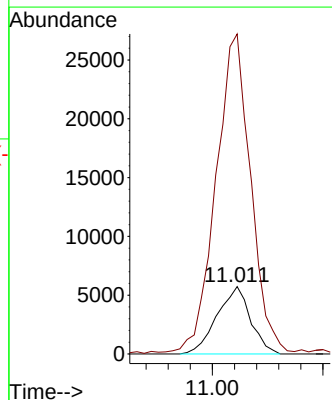
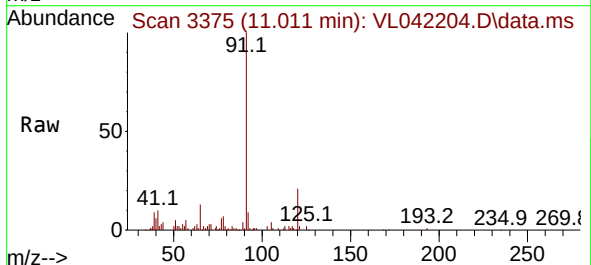
Manual Integrations  
APPROVED

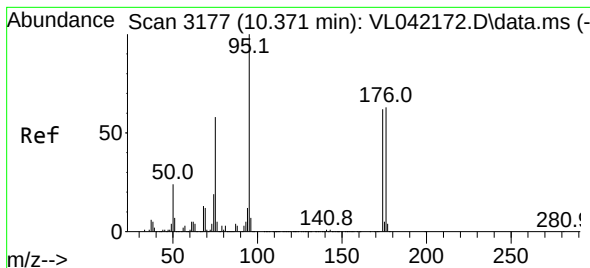
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#64  
n-propylbenzene  
Concen: 0.230 ppbv  
RT: 11.011 min Scan# 3375  
Delta R.T. 0.026 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

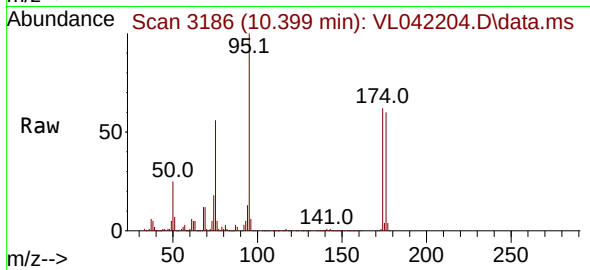
Tgt Ion:120 Resp: 6017  
Ion Ratio Lower Upper  
120 100  
91 499.2 376.9 565.3





#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.078 ppbv  
RT: 10.399 min Scan# 3177  
Delta R.T. 0.029 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

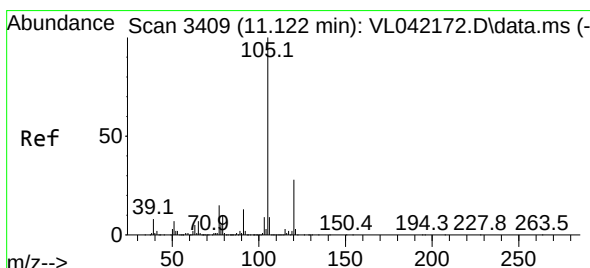
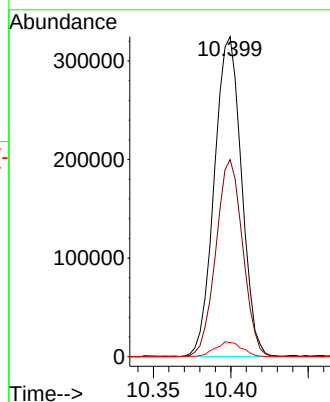
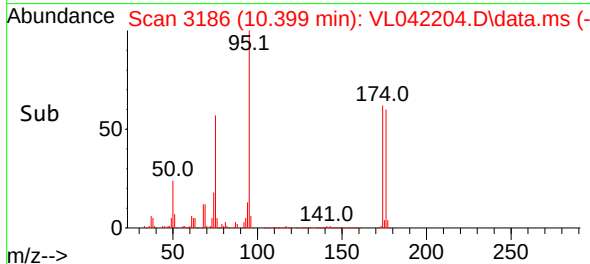
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025



Tgt Ion: 95 Resp: 395364  
Ion Ratio Lower Upper  
95 100  
174 61.0 50.6 76.0  
175 4.6 3.8 5.6

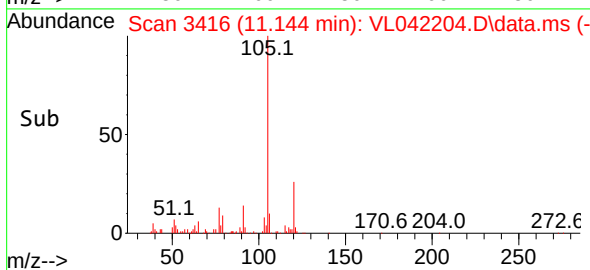
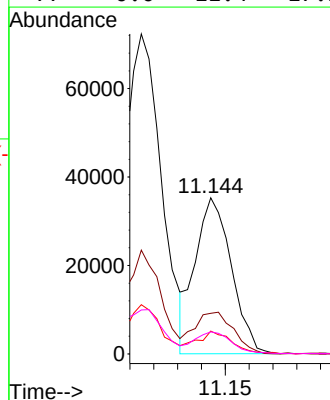
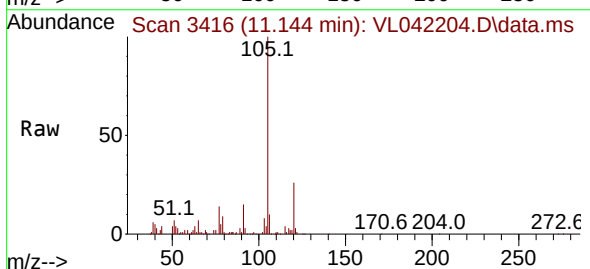
Manual Integrations  
APPROVED

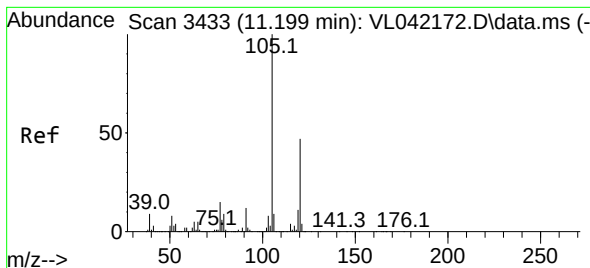
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#72  
4-Ethyltoluene  
Concen: 0.441 ppbv  
RT: 11.144 min Scan# 3416  
Delta R.T. 0.022 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion:105 Resp: 37267  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.4 35.0#  
91 0.0 10.3 15.5#  
77 0.0 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.426 ppbv

RT: 11.222 min Scan# 3440

Delta R.T. 0.022 min

Lab File: VL042204.D

Acq: 31 Mar 2025 11:06

Instrument :

MSVOA\_L

ClientSampleId :

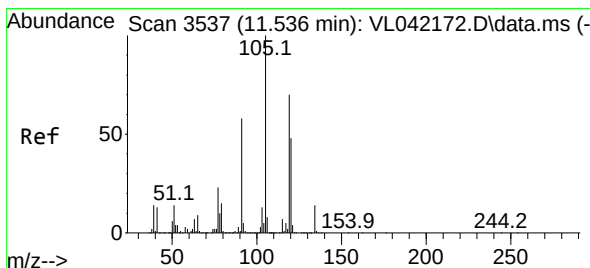
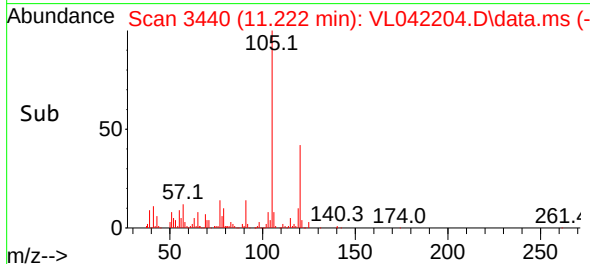
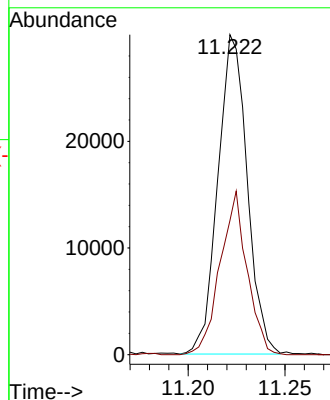
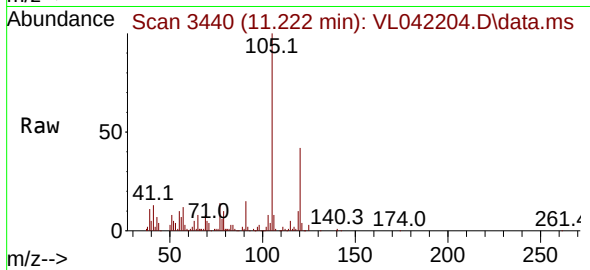
SSSG-DUP-1-3262025

Tgt Ion:105 Resp: 3149  
 Ion Ratio Lower Upper  
 105 100  
 120 42.0 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025



#74

1,2,4-Trimethylbenzene

Concen: 1.378 ppbv

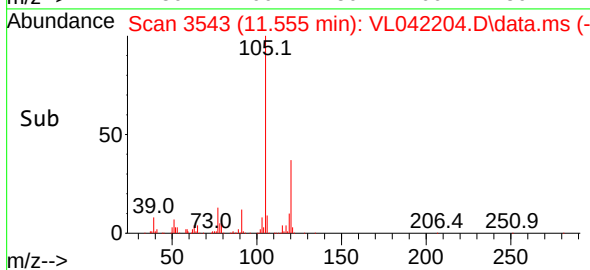
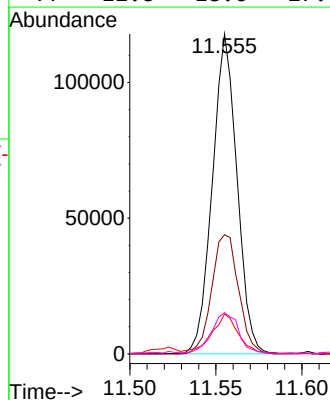
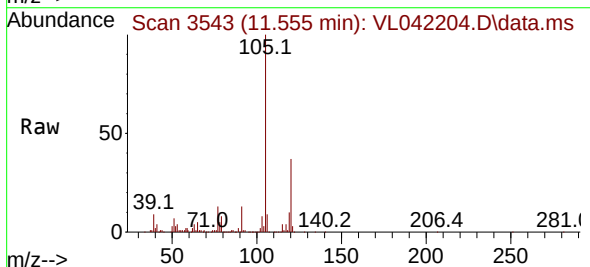
RT: 11.555 min Scan# 3543

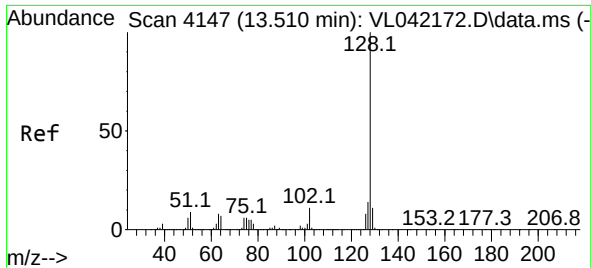
Delta R.T. 0.019 min

Lab File: VL042204.D

Acq: 31 Mar 2025 11:06

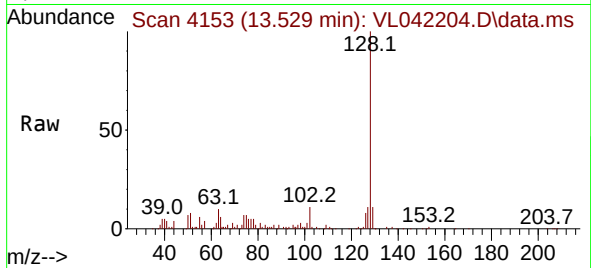
Tgt Ion:105 Resp: 117257  
 Ion Ratio Lower Upper  
 105 100  
 120 37.3 38.6 58.0#  
 91 12.2 46.2 69.2#  
 77 12.8 18.6 27.8#





#79  
Naphthalene  
Concen: 0.431 ppbv  
RT: 13.529 min Scan# 4153  
Delta R.T. 0.019 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

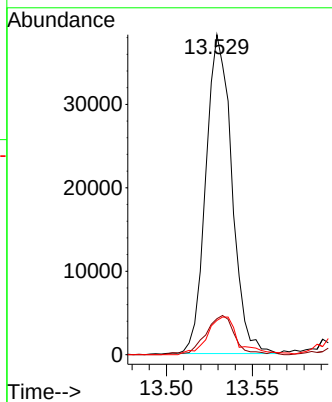
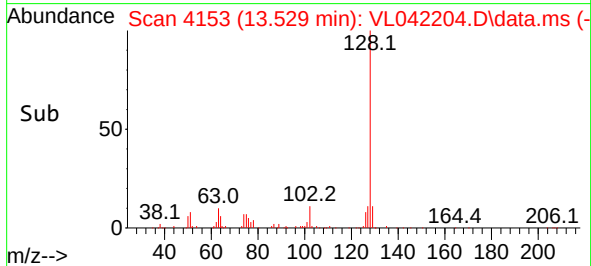
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025



Tgt Ion:128 Resp: 4008  
Ion Ratio Lower Upper  
128 100  
127 11.0 10.8 16.2  
129 10.8 9.0 13.4

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

Signal : TIC: VL042204.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.431       | 412           | 415         | 418          | rBV      | 4336445        | 3639684       | 100.00%         | 11.027%       |
| 2         | 1.444       | 418           | 419         | 424          | rVB      | 4288251        | 2184320       | 60.01%          | 6.618%        |
| 3         | 1.489       | 429           | 433         | 437          | rVV      | 1580304        | 769958        | 21.15%          | 2.333%        |
| 4         | 1.515       | 439           | 441         | 446          | rVB      | 116067         | 80166         | 2.20%           | 0.243%        |
| 5         | 1.567       | 453           | 457         | 462          | rVB      | 750973         | 374455        | 10.29%          | 1.134%        |
| 6         | 1.609       | 466           | 470         | 474          | rVV2     | 687729         | 491921        | 13.52%          | 1.490%        |
| 7         | 1.628       | 474           | 476         | 481          | rVV      | 1049956        | 601157        | 16.52%          | 1.821%        |
| 8         | 1.651       | 481           | 483         | 490          | rVB2     | 79196          | 48212         | 1.32%           | 0.146%        |
| 9         | 1.693       | 490           | 496         | 503          | rVB2     | 65834          | 66131         | 1.82%           | 0.200%        |
| 10        | 1.732       | 503           | 508         | 517          | rBV      | 386007         | 234378        | 6.44%           | 0.710%        |
| 11        | 1.855       | 539           | 546         | 552          | rBV2     | 1630918        | 1759533       | 48.34%          | 5.331%        |
| 12        | 1.900       | 553           | 560         | 563          | rBV2     | 47968          | 47357         | 1.30%           | 0.143%        |
| 13        | 1.952       | 571           | 576         | 579          | rBV      | 80820          | 60018         | 1.65%           | 0.182%        |
| 14        | 1.975       | 579           | 583         | 588          | rVV      | 900137         | 635595        | 17.46%          | 1.926%        |
| 15        | 2.004       | 588           | 592         | 593          | rVV      | 82563          | 59553         | 1.64%           | 0.180%        |
| 16        | 2.013       | 593           | 595         | 600          | rVV2     | 101776         | 68299         | 1.88%           | 0.207%        |
| 17        | 2.059       | 603           | 609         | 612          | rVV2     | 56630          | 47881         | 1.32%           | 0.145%        |
| 18        | 2.091       | 615           | 619         | 629          | rVB      | 142872         | 125549        | 3.45%           | 0.380%        |
| 19        | 2.188       | 645           | 649         | 651          | rBV2     | 68461          | 51766         | 1.42%           | 0.157%        |
| 20        | 2.204       | 651           | 654         | 660          | rVB2     | 78783          | 72827         | 2.00%           | 0.221%        |
| 21        | 2.454       | 723           | 731         | 737          | rBV4     | 183897         | 239634        | 6.58%           | 0.726%        |
| 22        | 2.489       | 737           | 742         | 750          | rVB      | 653028         | 641542        | 17.63%          | 1.944%        |
| 23        | 2.577       | 763           | 769         | 780          | rVB      | 386902         | 374331        | 10.28%          | 1.134%        |
| 24        | 2.641       | 780           | 789         | 797          | rVB      | 339626         | 356245        | 9.79%           | 1.079%        |
| 25        | 2.700       | 797           | 807         | 816          | rBV3     | 42969          | 59903         | 1.65%           | 0.181%        |
| 26        | 2.806       | 831           | 840         | 846          | rBV2     | 703503         | 721653        | 19.83%          | 2.186%        |
| 27        | 2.845       | 846           | 852         | 865          | rVB      | 458176         | 519676        | 14.28%          | 1.574%        |
| 28        | 3.081       | 920           | 925         | 934          | rBV      | 126446         | 148678        | 4.08%           | 0.450%        |
| 29        | 3.253       | 968           | 978         | 986          | rBV      | 231803         | 313025        | 8.60%           | 0.948%        |
| 30        | 3.308       | 986           | 995         | 1004         | rVB4     | 74840          | 112417        | 3.09%           | 0.341%        |
| 31        | 3.680       | 1095          | 1110        | 1120         | rBV2     | 471261         | 727679        | 19.99%          | 2.205%        |
| 32        | 3.884       | 1160          | 1173        | 1184         | rBV2     | 121557         | 205804        | 5.65%           | 0.624%        |
| 33        | 3.984       | 1192          | 1204        | 1218         | rVB      | 872727         | 1388990       | 38.16%          | 4.208%        |
| 34        | 4.082       | 1222          | 1234        | 1242         | rVV2     | 125516         | 235542        | 6.47%           | 0.714%        |
| 35        | 4.120       | 1242          | 1246        | 1259         | rVB5     | 62706          | 107636        | 2.96%           | 0.326%        |
| 36        | 4.295       | 1289          | 1300        | 1318         | rVB3     | 126428         | 256363        | 7.04%           | 0.777%        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

|    |        |      |      |      |       |         |         |        |        |
|----|--------|------|------|------|-------|---------|---------|--------|--------|
| 37 | 4.476  | 1344 | 1356 | 1367 | rBV7  | 36571   | 71191   | 1.96%  | 0.216% |
| 38 | 4.557  | 1367 | 1381 | 1393 | rVV10 | 33610   | 92469   | 2.54%  | 0.280% |
| 39 | 4.632  | 1393 | 1404 | 1405 | rVV4  | 45697   | 68636   | 1.89%  | 0.208% |
| 40 | 4.674  | 1405 | 1417 | 1435 | rVB2  | 230571  | 524553  | 14.41% | 1.589% |
| 41 | 5.017  | 1510 | 1523 | 1535 | rVB5  | 120337  | 248881  | 6.84%  | 0.754% |
| 42 | 5.710  | 1714 | 1737 | 1753 | rVB5  | 125968  | 346825  | 9.53%  | 1.051% |
| 43 | 5.816  | 1757 | 1770 | 1791 | rBV7  | 36446   | 103626  | 2.85%  | 0.314% |
| 44 | 6.308  | 1913 | 1922 | 1937 | rVB7  | 35118   | 87575   | 2.41%  | 0.265% |
| 45 | 6.859  | 2080 | 2092 | 2105 | rVB5  | 65390   | 141818  | 3.90%  | 0.430% |
| 46 | 6.969  | 2110 | 2126 | 2146 | rVB2  | 826253  | 1712101 | 47.04% | 5.187% |
| 47 | 7.218  | 2191 | 2203 | 2215 | rBV5  | 35097   | 71524   | 1.97%  | 0.217% |
| 48 | 7.409  | 2251 | 2262 | 2271 | rBV3  | 66629   | 131735  | 3.62%  | 0.399% |
| 49 | 7.632  | 2317 | 2331 | 2332 | rBV4  | 70048   | 104908  | 2.88%  | 0.318% |
| 50 | 7.648  | 2332 | 2336 | 2345 | rVB4  | 61749   | 94351   | 2.59%  | 0.286% |
| 51 | 7.710  | 2353 | 2355 | 2368 | rVB10 | 27294   | 45869   | 1.26%  | 0.139% |
| 52 | 7.923  | 2410 | 2421 | 2430 | rBV3  | 44619   | 88627   | 2.44%  | 0.269% |
| 53 | 8.030  | 2445 | 2454 | 2468 | rVB6  | 22165   | 51729   | 1.42%  | 0.157% |
| 54 | 8.163  | 2484 | 2495 | 2506 | rBV5  | 28257   | 53108   | 1.46%  | 0.161% |
| 55 | 8.331  | 2530 | 2547 | 2561 | rVB5  | 128310  | 252433  | 6.94%  | 0.765% |
| 56 | 8.907  | 2710 | 2725 | 2737 | rBV   | 1157230 | 1743820 | 47.91% | 5.283% |
| 57 | 9.173  | 2799 | 2807 | 2822 | rVB4  | 36935   | 60586   | 1.66%  | 0.184% |
| 58 | 9.380  | 2861 | 2871 | 2885 | rBV   | 200131  | 306473  | 8.42%  | 0.929% |
| 59 | 9.555  | 2915 | 2925 | 2942 | rVB   | 529393  | 1033055 | 28.38% | 3.130% |
| 60 | 9.655  | 2948 | 2956 | 2970 | rBV   | 270169  | 387770  | 10.65% | 1.175% |
| 61 | 9.755  | 2985 | 2987 | 2999 | rVB2  | 46284   | 41966   | 1.15%  | 0.127% |
| 62 | 9.820  | 2999 | 3007 | 3015 | rBV3  | 32190   | 47297   | 1.30%  | 0.143% |
| 63 | 9.891  | 3015 | 3029 | 3038 | rVV5  | 157460  | 244733  | 6.72%  | 0.741% |
| 64 | 9.988  | 3046 | 3059 | 3079 | rVB   | 284725  | 431921  | 11.87% | 1.309% |
| 65 | 10.399 | 3164 | 3186 | 3196 | rBV   | 1526910 | 2033820 | 55.88% | 6.162% |
| 66 | 10.827 | 3311 | 3318 | 3327 | rVB7  | 33711   | 48423   | 1.33%  | 0.147% |
| 67 | 10.921 | 3341 | 3347 | 3359 | rVB5  | 44939   | 57545   | 1.58%  | 0.174% |
| 68 | 11.011 | 3364 | 3375 | 3388 | rVB3  | 64073   | 113900  | 3.13%  | 0.345% |
| 69 | 11.115 | 3400 | 3407 | 3412 | rBV   | 197524  | 222593  | 6.12%  | 0.674% |
| 70 | 11.144 | 3412 | 3416 | 3427 | rVB   | 97415   | 117913  | 3.24%  | 0.357% |
| 71 | 11.222 | 3432 | 3440 | 3448 | rVB2  | 112529  | 132149  | 3.63%  | 0.400% |
| 72 | 11.358 | 3477 | 3482 | 3494 | rVB3  | 78566   | 91310   | 2.51%  | 0.277% |
| 73 | 11.555 | 3536 | 3543 | 3555 | rVB   | 322630  | 367152  | 10.09% | 1.112% |
| 74 | 11.772 | 3598 | 3610 | 3622 | rVB4  | 131916  | 193325  | 5.31%  | 0.586% |
| 75 | 11.898 | 3642 | 3649 | 3656 | rBV3  | 83625   | 89220   | 2.45%  | 0.270% |
| 76 | 12.037 | 3684 | 3692 | 3695 | rBV4  | 37695   | 49138   | 1.35%  | 0.149% |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

|     |        |      |      |      |      |        |        |       |        |
|-----|--------|------|------|------|------|--------|--------|-------|--------|
| 77  | 12.060 | 3695 | 3699 | 3706 | rVV5 | 69835  | 80502  | 2.21% | 0.244% |
| 78  | 12.108 | 3706 | 3714 | 3721 | rVB6 | 51384  | 71295  | 1.96% | 0.216% |
| 79  | 12.244 | 3749 | 3756 | 3763 | rVB4 | 97934  | 108482 | 2.98% | 0.329% |
| 80  | 12.422 | 3806 | 3811 | 3817 | rVB6 | 49643  | 50964  | 1.40% | 0.154% |
| 81  | 12.455 | 3817 | 3821 | 3828 | rBV3 | 45084  | 44196  | 1.21% | 0.134% |
| 82  | 12.526 | 3837 | 3843 | 3851 | rBV6 | 51713  | 83298  | 2.29% | 0.252% |
| 83  | 12.562 | 3851 | 3854 | 3862 | rVB5 | 45782  | 41482  | 1.14% | 0.126% |
| 84  | 12.607 | 3862 | 3868 | 3878 | rBV3 | 52421  | 69110  | 1.90% | 0.209% |
| 85  | 12.688 | 3878 | 3893 | 3900 | rBV8 | 45345  | 87842  | 2.41% | 0.266% |
| 86  | 12.843 | 3935 | 3941 | 3948 | rBV  | 191230 | 175063 | 4.81% | 0.530% |
| 87  | 12.934 | 3961 | 3969 | 3975 | rBV3 | 33822  | 42673  | 1.17% | 0.129% |
| 88  | 12.969 | 3975 | 3980 | 3986 | rVV3 | 51286  | 53935  | 1.48% | 0.163% |
| 89  | 13.018 | 3988 | 3995 | 4007 | rVB4 | 65205  | 93140  | 2.56% | 0.282% |
| 90  | 13.244 | 4060 | 4065 | 4070 | rBV3 | 36810  | 44309  | 1.22% | 0.134% |
| 91  | 13.348 | 4091 | 4097 | 4107 | rBV7 | 56771  | 95163  | 2.61% | 0.288% |
| 92  | 13.403 | 4107 | 4114 | 4120 | rVB4 | 84431  | 98971  | 2.72% | 0.300% |
| 93  | 13.442 | 4120 | 4126 | 4130 | rBV4 | 48116  | 54371  | 1.49% | 0.165% |
| 94  | 13.529 | 4148 | 4153 | 4158 | rBV  | 73294  | 71214  | 1.96% | 0.216% |
| 95  | 13.678 | 4192 | 4199 | 4208 | rBV8 | 52378  | 83773  | 2.30% | 0.254% |
| 96  | 13.743 | 4210 | 4219 | 4225 | rBV  | 238195 | 230807 | 6.34% | 0.699% |
| 97  | 13.847 | 4243 | 4251 | 4255 | rBV6 | 40056  | 49597  | 1.36% | 0.150% |
| 98  | 13.914 | 4269 | 4272 | 4278 | rVB7 | 47163  | 43830  | 1.20% | 0.133% |
| 99  | 13.999 | 4287 | 4298 | 4306 | rBV7 | 34589  | 55192  | 1.52% | 0.167% |
| 100 | 14.112 | 4326 | 4333 | 4338 | rBV9 | 46776  | 64226  | 1.76% | 0.195% |
| 101 | 14.190 | 4348 | 4357 | 4366 | rBV9 | 39847  | 67515  | 1.85% | 0.205% |
| 102 | 14.251 | 4366 | 4376 | 4389 | rVV8 | 92537  | 196084 | 5.39% | 0.594% |
| 103 | 14.319 | 4392 | 4397 | 4403 | rVB7 | 47209  | 46980  | 1.29% | 0.142% |
| 104 | 14.355 | 4403 | 4408 | 4415 | rBV4 | 74176  | 83593  | 2.30% | 0.253% |
| 105 | 14.471 | 4433 | 4444 | 4450 | rBV5 | 72451  | 111487 | 3.06% | 0.338% |
| 106 | 14.536 | 4459 | 4464 | 4475 | rVB  | 265829 | 274811 | 7.55% | 0.833% |
| 107 | 14.682 | 4501 | 4509 | 4519 | rBV8 | 79977  | 127360 | 3.50% | 0.386% |
| 108 | 14.915 | 4574 | 4581 | 4586 | rBV5 | 49663  | 51543  | 1.42% | 0.156% |
| 109 | 15.125 | 4641 | 4646 | 4653 | rVB3 | 64139  | 66374  | 1.82% | 0.201% |
| 110 | 15.258 | 4682 | 4687 | 4696 | rVB  | 166979 | 153187 | 4.21% | 0.464% |

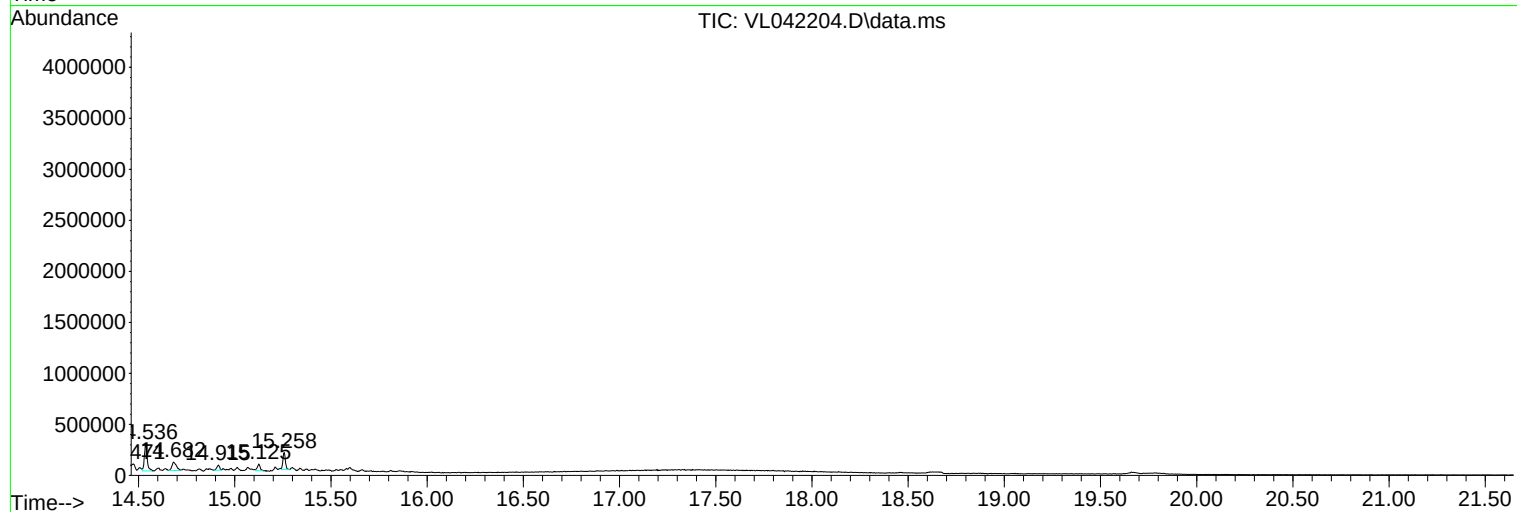
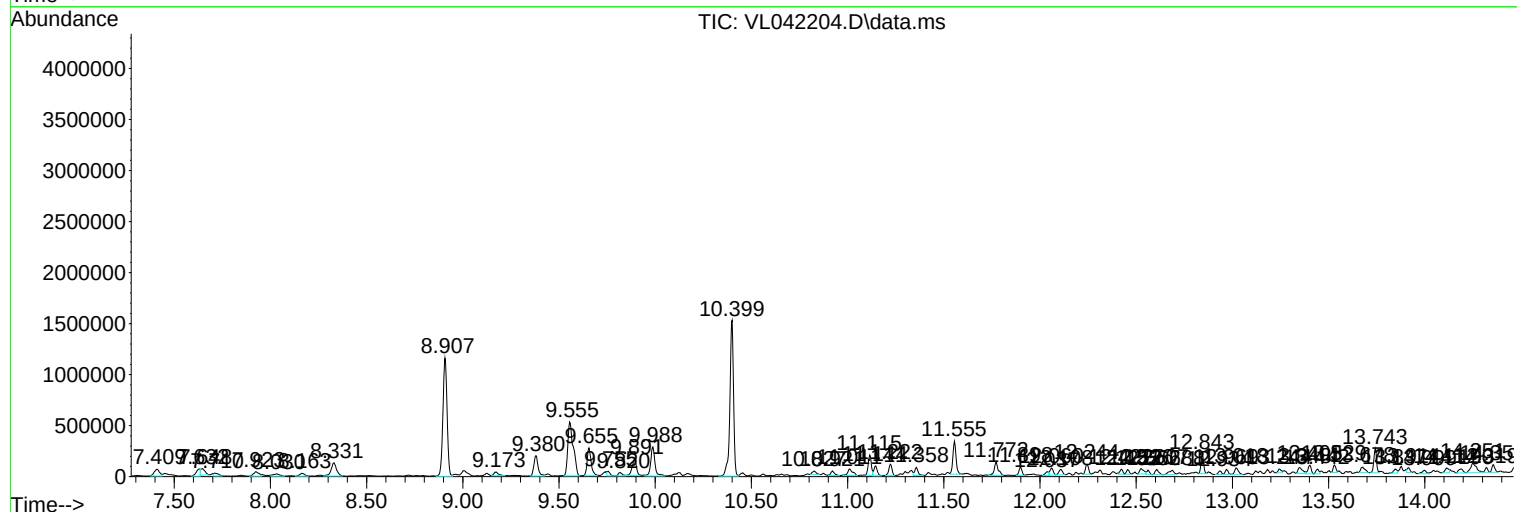
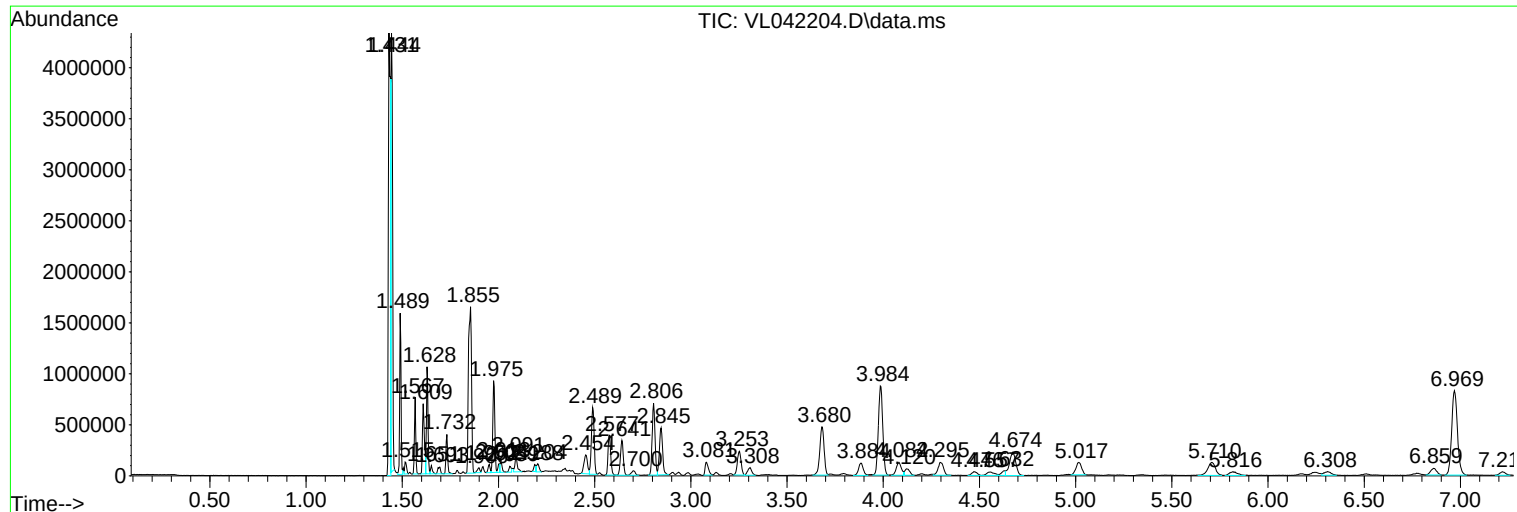
Sum of corrected areas: 33006315

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

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

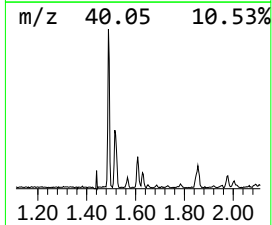
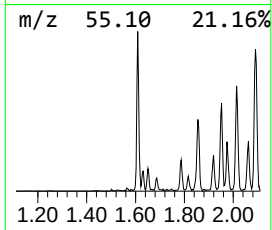
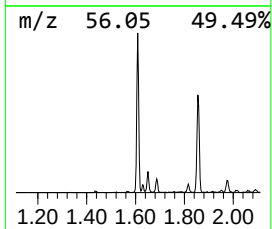
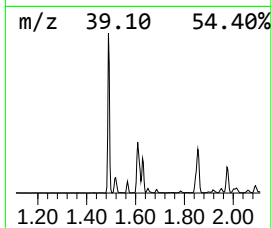
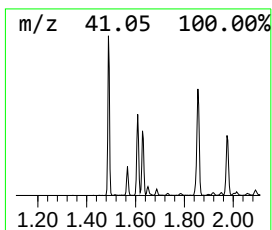
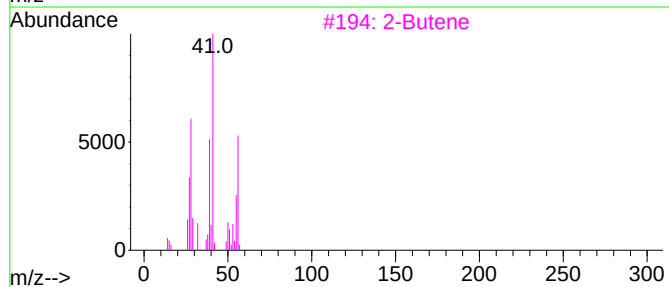
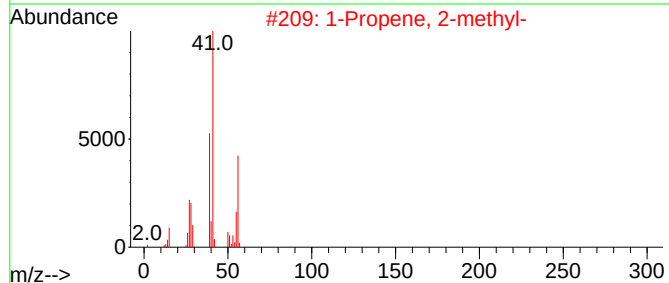
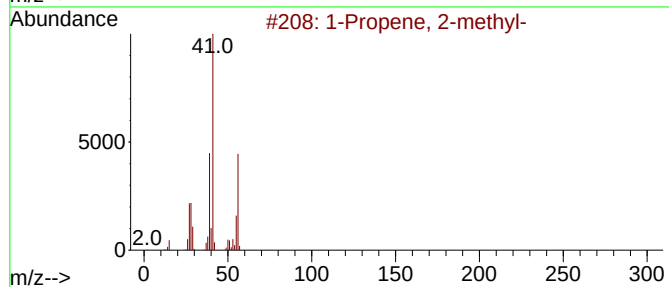
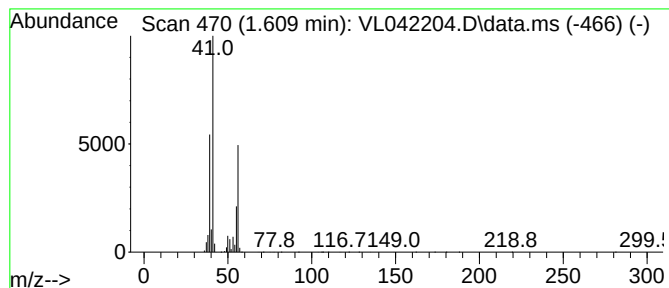
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 1-Propene, 2-methyl- Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 1.609 | 6.82 ppbv | 491921 | Bromochloromethane | 2.806 |

| Hit# | of 5                 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|----------------------|--------------|----|---------|-------------|------|
| 1    | 1-Propene, 2-methyl- |              | 56 | C4H8    | 000115-11-7 | 90   |
| 2    | 1-Propene, 2-methyl- |              | 56 | C4H8    | 000115-11-7 | 80   |
| 3    | 2-Butene             |              | 56 | C4H8    | 000107-01-7 | 80   |
| 4    | 2-Butene             |              | 56 | C4H8    | 000107-01-7 | 64   |
| 5    | 1-Propene, 2-methyl- |              | 56 | C4H8    | 000115-11-7 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

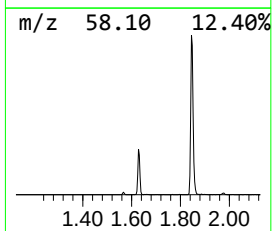
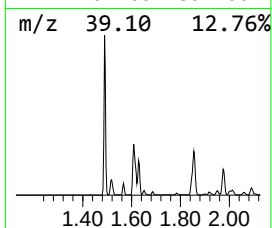
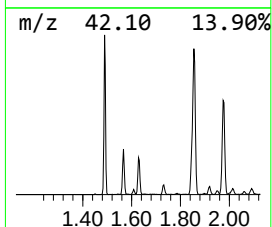
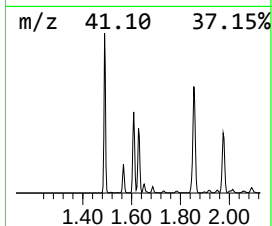
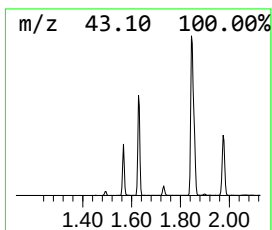
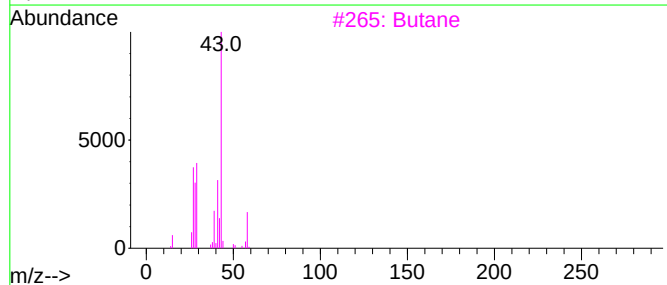
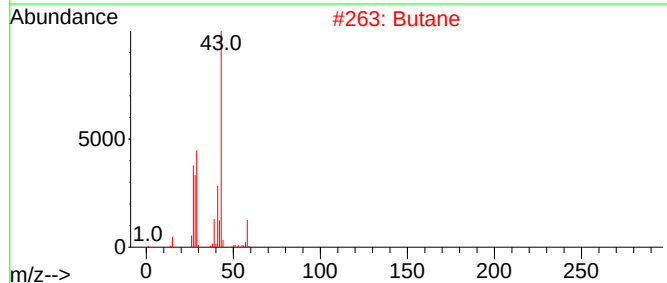
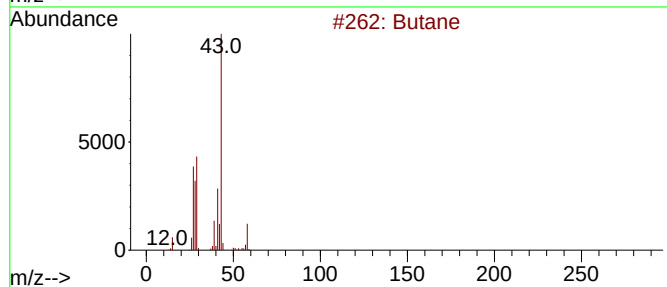
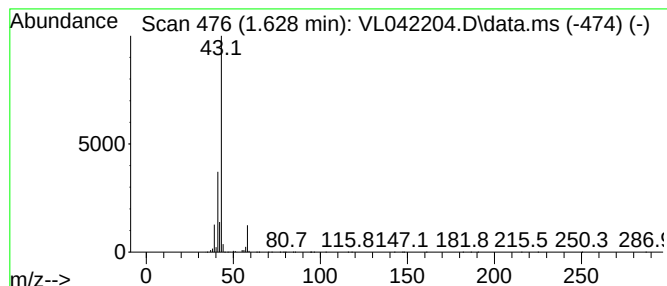
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

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

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

\*\*\*\*\*  
Peak Number 3 Butane Concentration Rank 4

| R.T.      | EstConc      | Area   | Relative to ISTD   | R.T.        |      |
|-----------|--------------|--------|--------------------|-------------|------|
| 1.628     | 8.33 ppbv    | 601157 | Bromochloromethane | 2.806       |      |
| Hit# of 5 | Tentative ID | MW     | MolForm            | CAS#        | Qual |
| 1         | Butane       | 58     | C4H10              | 000106-97-8 | 86   |
| 2         | Butane       | 58     | C4H10              | 000106-97-8 | 86   |
| 3         | Butane       | 58     | C4H10              | 000106-97-8 | 72   |
| 4         | Butane       | 58     | C4H10              | 000106-97-8 | 52   |
| 5         | Isobutane    | 58     | C4H10              | 000075-28-5 | 9    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

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

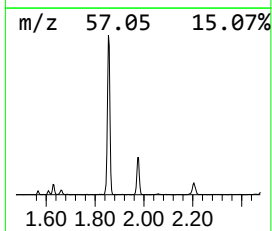
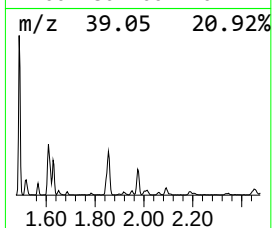
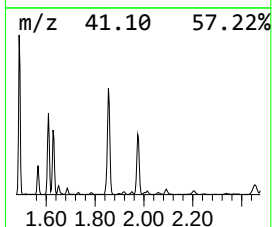
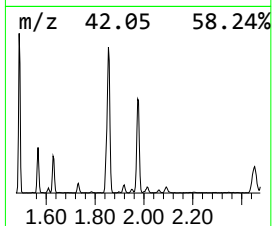
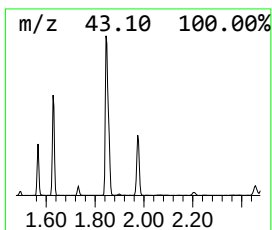
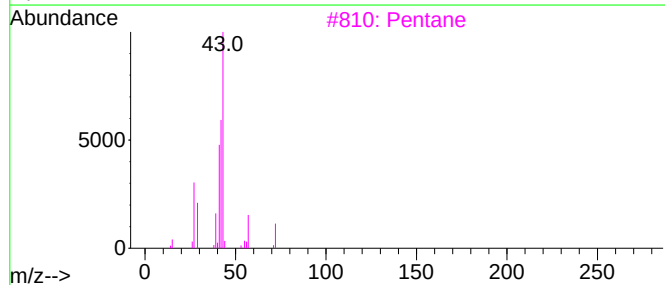
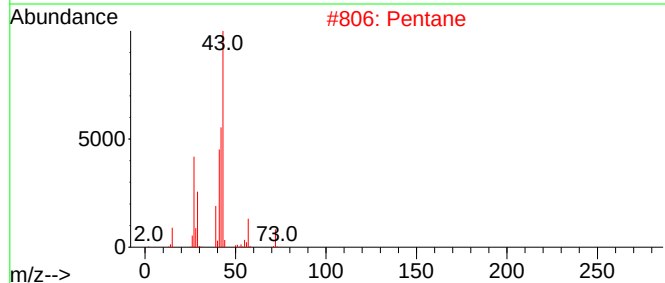
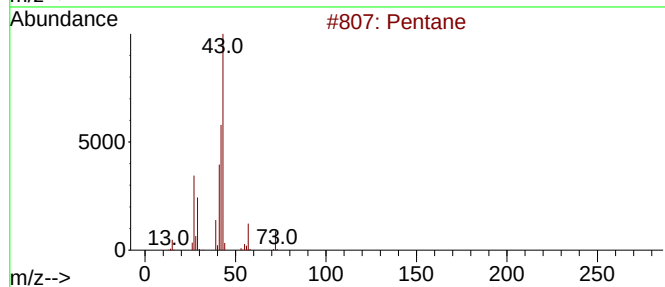
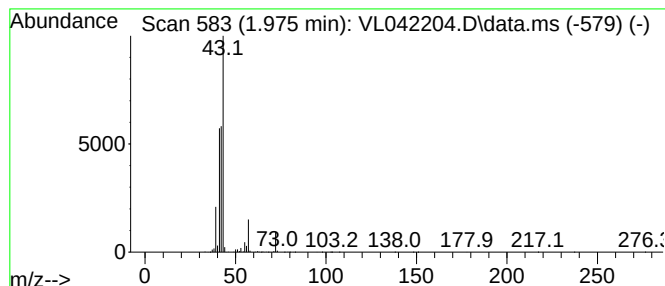
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Pentane Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 1.975 | 8.81 ppbv | 635595 | Bromochloromethane | 2.806 |

| Hit# of 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|-----------|-------------------|----|---------|-------------|------|
| 1         | Pentane           | 72 | C5H12   | 000109-66-0 | 86   |
| 2         | Pentane           | 72 | C5H12   | 000109-66-0 | 86   |
| 3         | Pentane           | 72 | C5H12   | 000109-66-0 | 80   |
| 4         | Pentane           | 72 | C5H12   | 000109-66-0 | 64   |
| 5         | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

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

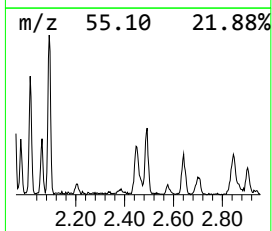
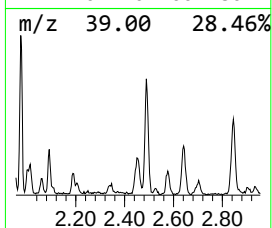
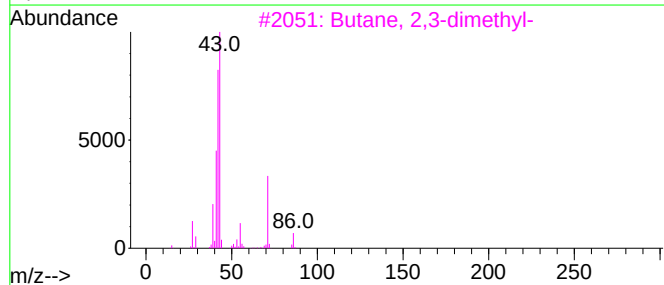
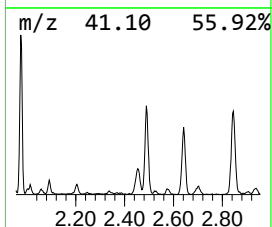
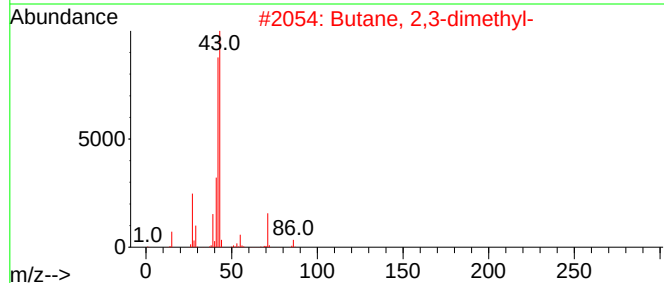
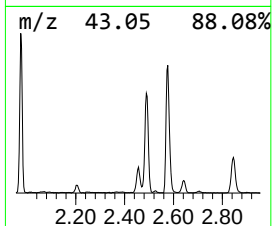
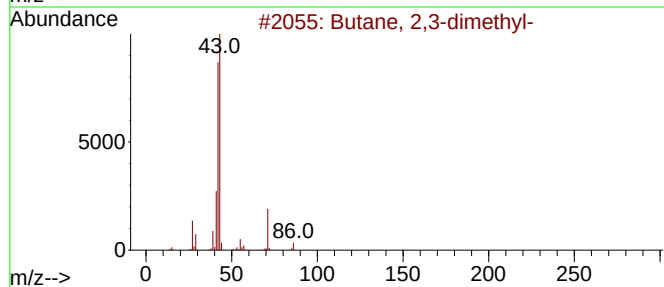
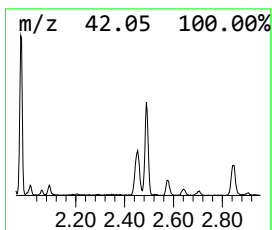
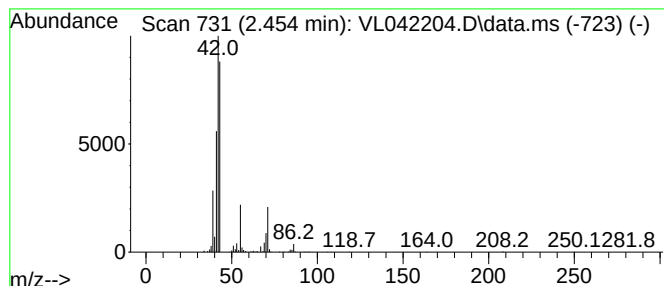
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Butane, 2,3-dimethyl- Concentration Rank 8

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.454 | 3.32 ppbv | 239634 | Bromochloromethane | 2.806 |

| Hit# | of | 5 | Tentative ID          | MW | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|----|---------|-------------|------|
| 1    |    |   | Butane, 2,3-dimethyl- | 86 | C6H14   | 000079-29-8 | 78   |
| 2    |    |   | Butane, 2,3-dimethyl- | 86 | C6H14   | 000079-29-8 | 78   |
| 3    |    |   | Butane, 2,3-dimethyl- | 86 | C6H14   | 000079-29-8 | 56   |
| 4    |    |   | Cyclobutane, methyl-  | 70 | C5H10   | 000598-61-8 | 47   |
| 5    |    |   | Butane, 2,3-dimethyl- | 86 | C6H14   | 000079-29-8 | 40   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

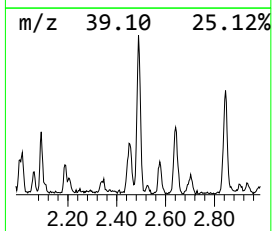
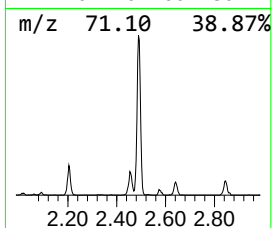
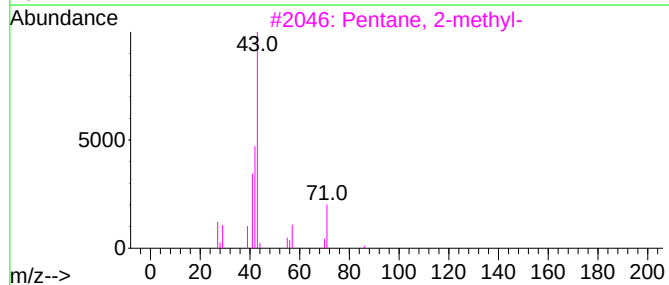
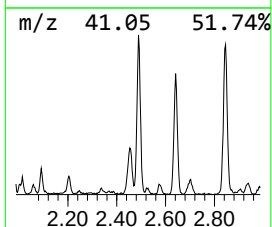
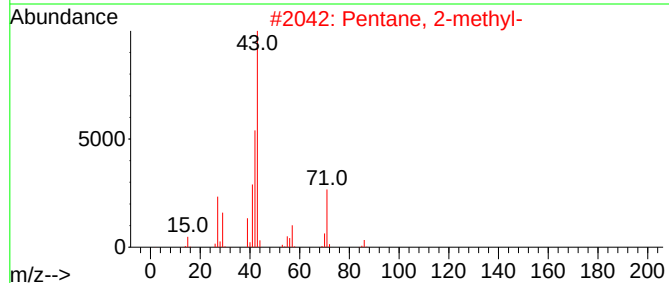
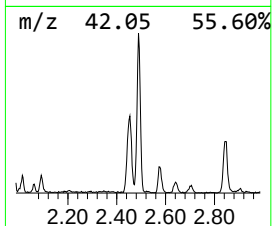
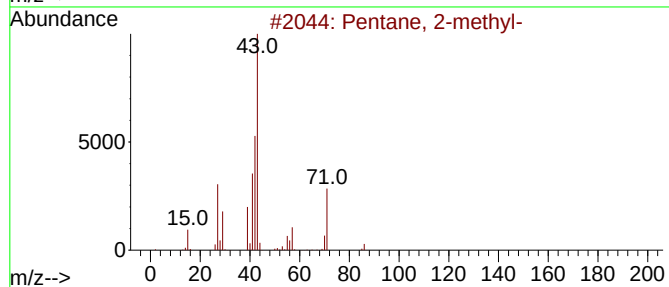
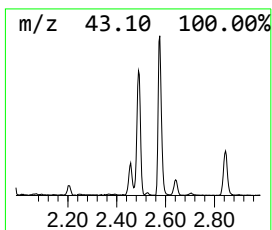
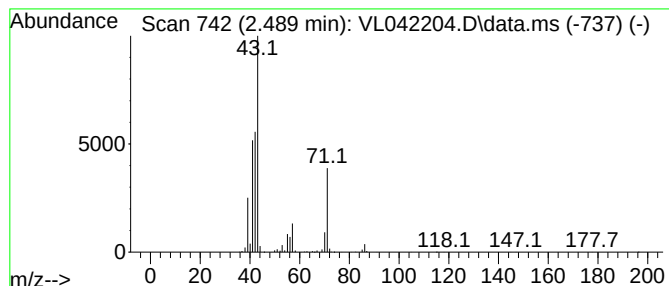
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

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

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

\*\*\*\*\*  
Peak Number 6 Pentane, 2-methyl- Concentration Rank 2

| R.T.      | EstConc               | Area   | Relative to ISTD   |         | R.T.        |      |
|-----------|-----------------------|--------|--------------------|---------|-------------|------|
| 2.489     | 8.89 ppbv             | 641542 | Bromochloromethane |         | 2.806       |      |
| Hit# of 5 | Tentative ID          |        | MW                 | MolForm | CAS#        | Qual |
| 1         | Pentane, 2-methyl-    |        | 86                 | C6H14   | 000107-83-5 | 91   |
| 2         | Pentane, 2-methyl-    |        | 86                 | C6H14   | 000107-83-5 | 90   |
| 3         | Pentane, 2-methyl-    |        | 86                 | C6H14   | 000107-83-5 | 83   |
| 4         | Pentane, 2-methyl-    |        | 86                 | C6H14   | 000107-83-5 | 64   |
| 5         | Butane, 2,3-dimethyl- |        | 86                 | C6H14   | 000079-29-8 | 52   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

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

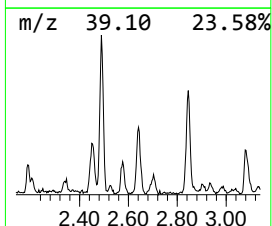
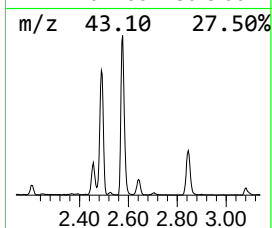
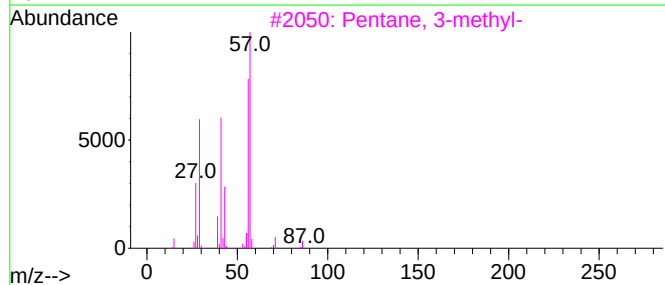
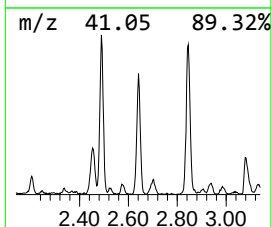
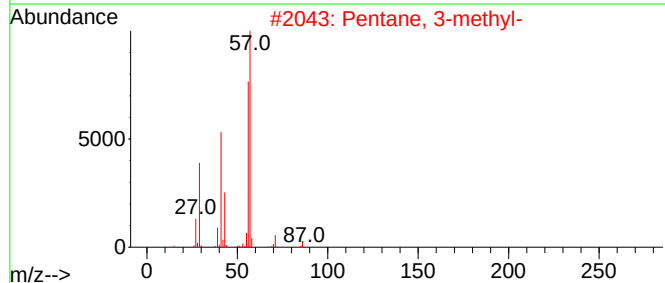
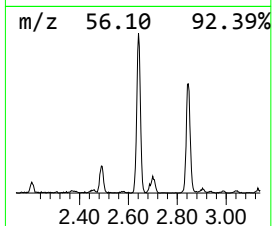
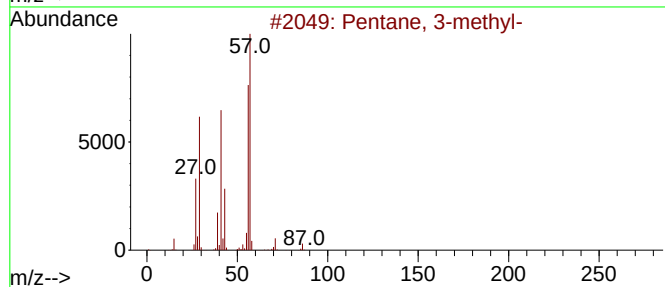
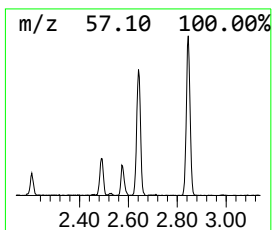
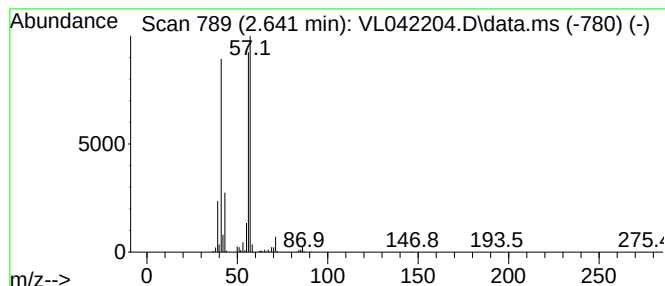
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Pentane, 3-methyl- Concentration Rank 6

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.641 | 4.94 ppbv | 356245 | Bromochloromethane | 2.806 |

| Hit# | of                        | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|---------------------------|---|--------------|-----|---------|-------------|------|
| 1    | Pentane, 3-methyl-        |   |              | 86  | C6H14   | 000096-14-0 | 86   |
| 2    | Pentane, 3-methyl-        |   |              | 86  | C6H14   | 000096-14-0 | 80   |
| 3    | Pentane, 3-methyl-        |   |              | 86  | C6H14   | 000096-14-0 | 80   |
| 4    | Oxirane, (1-methylethyl)- |   |              | 86  | C5H10O  | 001438-14-8 | 50   |
| 5    | Butane, 2,2,3-trimethyl-  |   |              | 100 | C7H16   | 000464-06-2 | 40   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

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

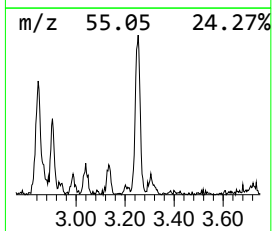
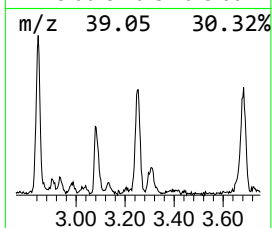
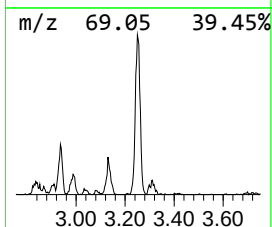
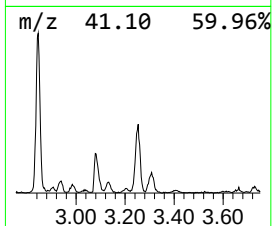
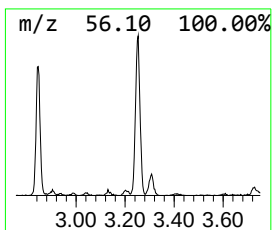
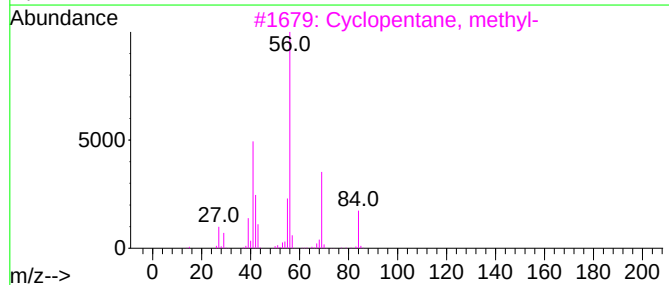
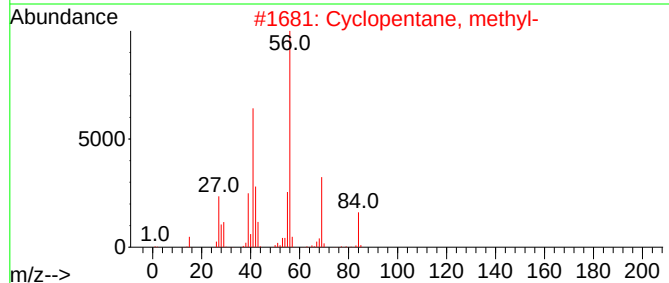
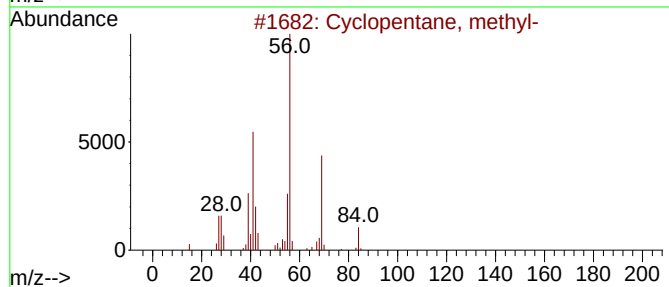
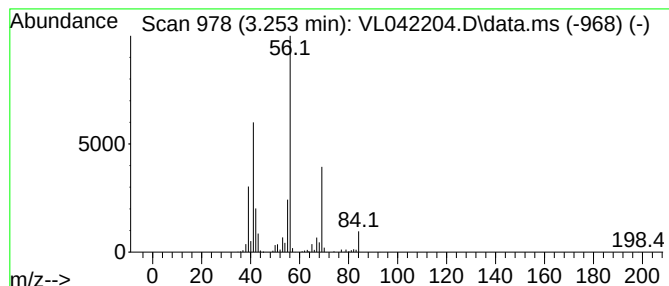
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Cyclopentane, methyl- Concentration Rank 7

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 3.253 | 4.34 ppbv | 313025 | Bromochloromethane | 2.806 |

| Hit# | of 5 | Tentative ID            | MW | MolForm | CAS#        | Qual |
|------|------|-------------------------|----|---------|-------------|------|
| 1    |      | Cyclopentane, methyl-   | 84 | C6H12   | 000096-37-7 | 91   |
| 2    |      | Cyclopentane, methyl-   | 84 | C6H12   | 000096-37-7 | 87   |
| 3    |      | Cyclopentane, methyl-   | 84 | C6H12   | 000096-37-7 | 78   |
| 4    |      | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4  | 004076-36-2 | 64   |
| 5    |      | Cyclobutane, ethyl-     | 84 | C6H12   | 004806-61-5 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

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

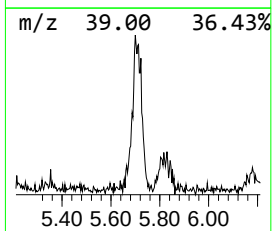
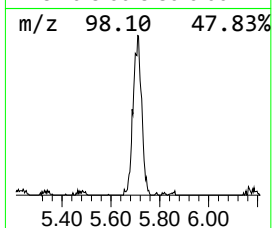
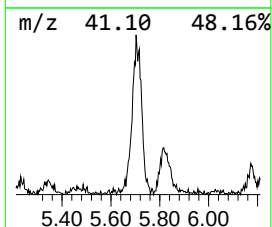
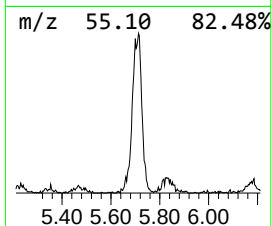
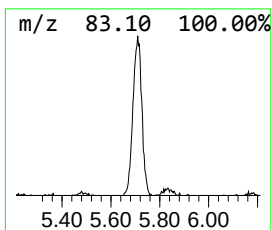
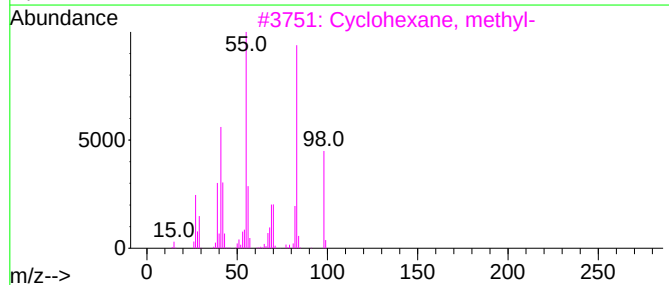
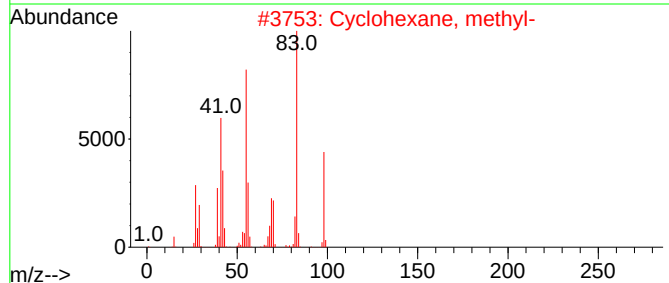
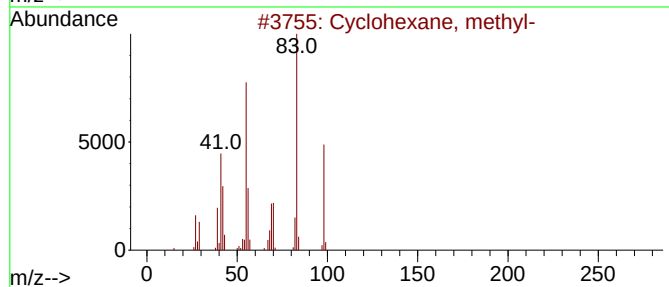
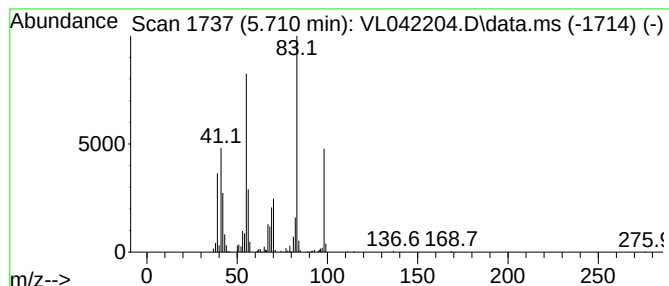
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Cyclohexane, methyl- Concentration Rank 9

| R.T.  | EstConc   | Area   | Relative to ISTD    | R.T.  |
|-------|-----------|--------|---------------------|-------|
| 5.710 | 2.50 ppbv | 346825 | 1,4-Difluorobenzene | 3.984 |

| Hit# | of 5 | Tentative ID         | MW | MolForm | CAS#        | Qual |
|------|------|----------------------|----|---------|-------------|------|
| 1    |      | Cyclohexane, methyl- | 98 | C7H14   | 000108-87-2 | 97   |
| 2    |      | Cyclohexane, methyl- | 98 | C7H14   | 000108-87-2 | 97   |
| 3    |      | Cyclohexane, methyl- | 98 | C7H14   | 000108-87-2 | 97   |
| 4    |      | Cyclohexane, methyl- | 98 | C7H14   | 000108-87-2 | 91   |
| 5    |      | Cyclohexane, methyl- | 98 | C7H14   | 000108-87-2 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

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

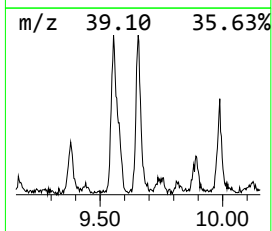
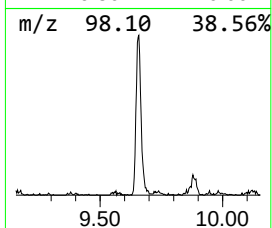
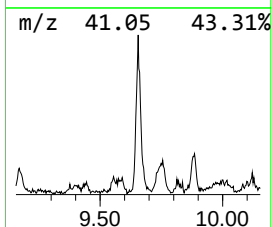
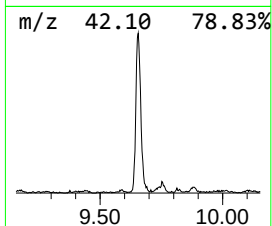
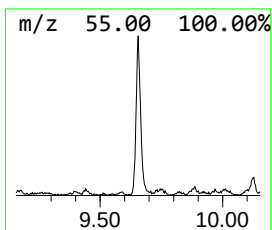
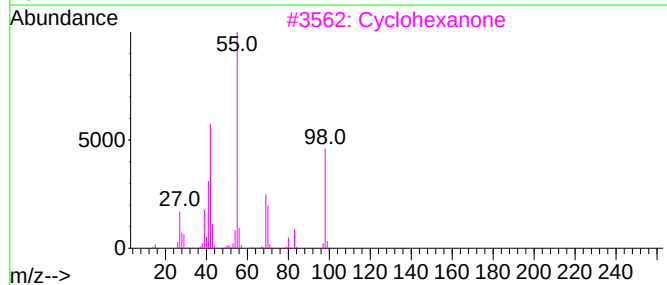
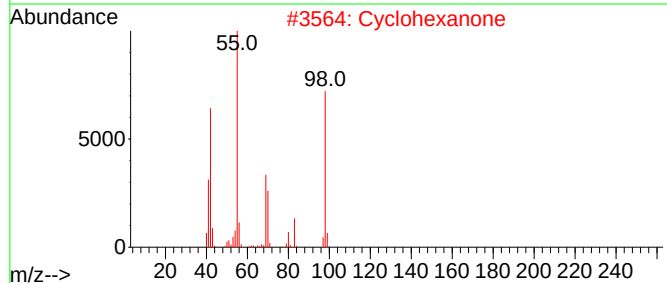
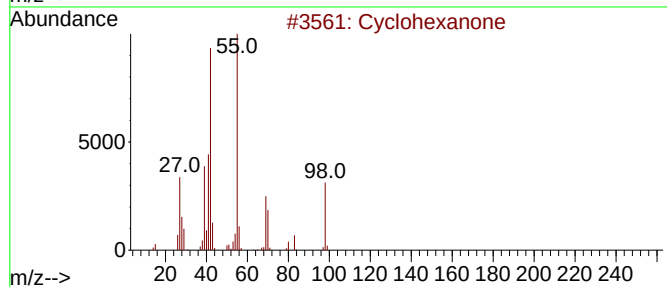
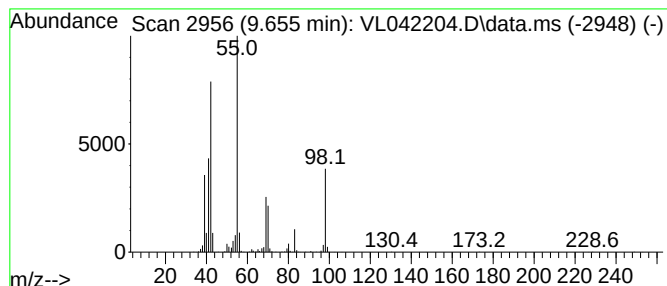
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Cyclohexanone Concentration Rank 10

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 9.655 | 2.22 ppbv | 387770 | Chlorobenzene-d5 | 8.907 |

| Hit# | of 5 | Tentative ID  | MW | MolForm | CAS#        | Qual |
|------|------|---------------|----|---------|-------------|------|
| 1    |      | Cyclohexanone | 98 | C6H10O  | 000108-94-1 | 95   |
| 2    |      | Cyclohexanone | 98 | C6H10O  | 000108-94-1 | 94   |
| 3    |      | Cyclohexanone | 98 | C6H10O  | 000108-94-1 | 91   |
| 4    |      | Cyclohexanone | 98 | C6H10O  | 000108-94-1 | 91   |
| 5    |      | Cyclohexanone | 98 | C6H10O  | 000108-94-1 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

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

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|--------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                    |       |         |       |          | #                     | RT    | Resp    | Conc |
| 1-Propene, 2-me... | 1.609 | 6.8     | ppbv  | 491921   | 1                     | 2.806 | 721653  | 10.0 |
| Butane             | 1.628 | 8.3     | ppbv  | 601157   | 1                     | 2.806 | 721653  | 10.0 |
| Pentane            | 1.975 | 8.8     | ppbv  | 635595   | 1                     | 2.806 | 721653  | 10.0 |
| Butane, 2,3-dim... | 2.454 | 3.3     | ppbv  | 239634   | 1                     | 2.806 | 721653  | 10.0 |
| Pentane, 2-methyl- | 2.489 | 8.9     | ppbv  | 641542   | 1                     | 2.806 | 721653  | 10.0 |
| Pentane, 3-methyl- | 2.641 | 4.9     | ppbv  | 356245   | 1                     | 2.806 | 721653  | 10.0 |
| Cyclopentane, m... | 3.253 | 4.3     | ppbv  | 313025   | 1                     | 2.806 | 721653  | 10.0 |
| Cyclohexane, me... | 5.710 | 2.5     | ppbv  | 346825   | 2                     | 3.984 | 1388990 | 10.0 |
| Cyclohexanone      | 9.655 | 2.2     | ppbv  | 387770   | 3                     | 8.907 | 1743820 | 10.0 |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-DUP-1-3262025DL                            | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-06DL                                      | 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 |
| VL042205.D        | 4         |           | 03/31/25 11:52 | VL033125      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |      |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.84          | 4.15           | UD        | 4.15 | 9.89       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.54          | 1.12           | JD        | 0.81 | 4.13       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 0.060         | 0.15           | UD        | 0.15 | 0.31       | ug/m3 |
| 74-83-9        | Bromomethane                   | 0.56          | 2.17           | UD        | 2.17 | 7.77       | ug/m3 |
| 75-00-3        | Chloroethane                   | 0.68          | 1.79           | UD        | 1.79 | 5.28       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 2.10          | 6.19           | D         | 1.53 | 5.90       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 0.64          | 3.60           | UD        | 3.60 | 11.2       | ug/m3 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.64          | 4.91           | UD        | 4.91 | 15.3       | ug/m3 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.35          | 2.45           | UD        | 2.45 | 14.0       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 0.76          | 2.30           | UD        | 2.30 | 6.06       | ug/m3 |
| 142-82-5       | Heptane                        | 1.70          | 6.97           | JD        | 1.80 | 8.20       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 0.56          | 2.22           | UD        | 2.22 | 7.93       | ug/m3 |
| 67-64-1        | Acetone                        | 22.7          | 53.9           | D         | 2.28 | 4.75       | ug/m3 |
| 75-15-0        | Carbon Disulfide               | 0.64          | 1.99           | UD        | 1.99 | 6.23       | ug/m3 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.48          | 1.73           | UD        | 1.73 | 7.21       | ug/m3 |
| 75-09-2        | Methylene Chloride             | 0.76          | 2.64           | UD        | 2.64 | 6.95       | ug/m3 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.76          | 3.01           | UD        | 3.01 | 7.93       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 0.52          | 2.10           | UD        | 2.10 | 8.09       | ug/m3 |
| 110-82-7       | Cyclohexane                    | 1.50          | 5.16           | JD        | 3.03 | 6.88       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 6.40          | 18.9           | D         | 1.42 | 5.90       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 0.040         | 0.25           | UD        | 0.25 | 0.75       | ug/m3 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.36          | 1.43           | UD        | 1.43 | 7.93       | ug/m3 |
| 67-66-3        | Chloroform                     | 0.33          | 1.61           | UD        | 1.61 | 9.77       | ug/m3 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.040         | 0.22           | UD        | 0.22 | 0.65       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 2.20          | 10.3           | D         | 1.87 | 9.34       | ug/m3 |
| 71-43-2        | Benzene                        | 5.70          | 18.2           | D         | 1.12 | 6.39       | ug/m3 |
| 107-06-2       | 1,2-Dichloroethane             | 0.36          | 1.46           | UD        | 1.46 | 8.09       | ug/m3 |
| 79-01-6        | Trichloroethene                | 0.070         | 0.38           | UD        | 0.38 | 0.64       | ug/m3 |
| 78-87-5        | 1,2-Dichloropropane            | 0.44          | 2.03           | UD        | 2.03 | 9.24       | ug/m3 |
| 75-27-4        | Bromodichloromethane           | 0.31          | 2.08           | UD        | 2.08 | 13.4       | ug/m3 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 0.37          | 1.52           | UD        | 1.52 | 8.20       | ug/m3 |
| 108-88-3       | Toluene                        | 9.50          | 35.8           | D         | 1.66 | 7.54       | ug/m3 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.24          | 1.09           | UD        | 1.09 | 9.08       | ug/m3 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 0.26          | 1.18           | UD        | 1.18 | 9.08       | ug/m3 |
| 79-00-5        | 1,1,2-Trichloroethane          | 0.28          | 1.53           | UD        | 1.53 | 10.9       | ug/m3 |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-DUP-1-3262025DL                            | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-06DL                                      | 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 |
| VL042205.D        | 4         |           | 03/31/25 11:52 | VL033125      |

| CAS Number                | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|---------------------------|---------------|----------------|-----------|---------------------|------------|---------|
| 124-48-1                  | Dibromochloromethane      | 0.26          | 2.22           | UD        | 2.22                | 17.0       | ug/m3   |
| 106-93-4                  | 1,2-Dibromoethane         | 0.29          | 2.23           | UD        | 2.23                | 3.07       | ug/m3   |
| 127-18-4                  | Tetrachloroethene         | 0.060         | 0.41           | UD        | 0.41                | 0.81       | ug/m3   |
| 108-90-7                  | Chlorobenzene             | 0.30          | 1.38           | UD        | 1.38                | 9.21       | ug/m3   |
| 100-41-4                  | Ethyl Benzene             | 1.30          | 5.65           | JD        | 2.08                | 8.69       | ug/m3   |
| 179601-23-1               | m/p-Xylene                | 4.80          | 20.9           | D         | 3.65                | 17.4       | ug/m3   |
| 95-47-6                   | o-Xylene                  | 1.70          | 7.38           | JD        | 2.08                | 8.69       | ug/m3   |
| 100-42-5                  | Styrene                   | 1.20          | 5.11           | JD        | 1.87                | 8.52       | ug/m3   |
| 75-25-2                   | Bromoform                 | 0.23          | 2.38           | UD        | 2.38                | 20.7       | ug/m3   |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane | 0.040         | 0.27           | UD        | 0.27                | 0.82       | ug/m3   |
| 95-49-8                   | 2-Chlorotoluene           | 0.44          | 2.28           | UD        | 2.28                | 10.4       | ug/m3   |
| 108-67-8                  | 1,3,5-Trimethylbenzene    | 0.44          | 2.16           | UD        | 2.16                | 9.83       | ug/m3   |
| 95-63-6                   | 1,2,4-Trimethylbenzene    | 1.10          | 5.41           | JD        | 1.52                | 9.83       | ug/m3   |
| 541-73-1                  | 1,3-Dichlorobenzene       | 0.32          | 1.92           | UD        | 1.92                | 12.0       | ug/m3   |
| 106-46-7                  | 1,4-Dichlorobenzene       | 0.21          | 1.26           | UD        | 1.26                | 12.0       | ug/m3   |
| 95-50-1                   | 1,2-Dichlorobenzene       | 0.30          | 1.80           | UD        | 1.80                | 12.0       | ug/m3   |
| 120-82-1                  | 1,2,4-Trichlorobenzene    | 0.34          | 2.52           | UD        | 2.52                | 14.8       | ug/m3   |
| 87-68-3                   | Hexachloro-1,3-Butadiene  | 0.34          | 3.63           | UD        | 3.63                | 21.3       | ug/m3   |
| 106-99-0                  | 1,3-Butadiene             | 0.52          | 1.15           | UD        | 1.15                | 4.42       | ug/m3   |
| 91-20-3                   | Naphthalene               | 0.30          | 1.57           | UD        | 1.57                | 2.10       | ug/m3   |
| 622-96-8                  | 4-Ethyltoluene            | 0.48          | 2.36           | UD        | 2.36                | 9.83       | ug/m3   |
| 110-54-3                  | Hexane                    | 4.40          | 15.5           | D         | 1.55                | 7.05       | ug/m3   |
| 107-05-1                  | Allyl Chloride            | 0.60          | 1.88           | UD        | 1.88                | 6.26       | ug/m3   |
| 123-91-1                  | 1,4-Dioxane               | 0.84          | 3.03           | UD        | 3.03                | 7.21       | ug/m3   |
| 80-62-6                   | Methyl Methacrylate       | 0.34          | 1.39           | UD        | 1.39                | 8.19       | ug/m3   |
| <b>SURROGATES</b>         |                           |               |                |           |                     |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene   | 9.80          |                |           | 70 (65) - 130 (135) | 98%        | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                           |               |                |           |                     |            |         |
| 74-97-5                   | Bromochloromethane        | 189000        |                | 2.803     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene       | 537000        |                | 3.985     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5          | 481000        |                | 8.908     |                     |            |         |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-DUP-1-3262025DL                            | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-06DL                                      | 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 |
| VL042205.D        | 4         |           | 03/31/25 11:52 | VL033125      |

| 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\VL033125\  
 Data File : VL042205.D  
 Acq On : 31 Mar 2025 11:52  
 Operator : SY/MD  
 Sample : Q1669-06DL 4X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-DUP-1-3262025DL

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025

Quant Time: Apr 01 04:03:48 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       | 2.803  | 49    | 188934   | 10.000   | ppbv   | 0.02     |
| 33) 1,4-Difluorobenzene     | 3.985  | 114   | 537109   | 10.000   | ppbv   | 0.03     |
| 55) Chlorobenzene-d5        | 8.908  | 117   | 480959   | 10.000   | ppbv   | 0.03     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.397 | 95    | 388692   | 9.841    | ppbv   | 0.03     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 98.400%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.502  | 85    | 3598     | 0.129    | ppbv # | 84       |
| 4) Chloromethane            | 1.538  | 50    | 1536     | 0.135    | ppbv # | 82       |
| 9) Propene                  | 1.489  | 41    | 58893    | 4.509    | ppbv   | 95       |
| 10) Heptane                 | 5.014  | 43    | 14950m   | 0.430    | ppbv   |          |
| 13) Ethanol                 | 1.732  | 45    | 32574    | 26.380   | ppbv   | 84       |
| 15) Acetone                 | 1.845  | 43    | 150267m  | 5.687    | ppbv   |          |
| 26) Hexane                  | 2.842  | 57    | 29019    | 1.095    | ppbv # | 33       |
| 30) Cyclohexane             | 3.884  | 84    | 8868     | 0.386    | ppbv   | 96       |
| 34) 2-Butanone              | 2.577  | 43    | 62430    | 1.603    | ppbv   | 99       |
| 36) Benzene                 | 3.681  | 78    | 76263    | 1.432    | ppbv   | 98       |
| 41) Tetrahydrofuran         | 3.082  | 42    | 11571m   | 0.516    | ppbv   |          |
| 44) 2,2,4-Trimethylpentane  | 4.671  | 57    | 50242    | 0.558    | ppbv # | 79       |
| 53) Toluene                 | 6.966  | 91    | 150266   | 2.381    | ppbv   | 98       |
| 58) Ethyl Benzene           | 9.377  | 91    | 27471    | 0.322    | ppbv   | 95       |
| 59) m/p-Xylene              | 9.555  | 91    | 81487    | 1.195    | ppbv   | 99       |
| 60) o-Xylene                | 9.986  | 91    | 28632    | 0.419    | ppbv   | 92       |
| 61) Styrene                 | 9.895  | 104   | 9837     | 0.291    | ppbv   | 92       |
| 74) 1,2,4-Trimethylbenzene  | 11.555 | 105   | 24393    | 0.285    | ppbv # | 70       |
| -----                       |        |       |          |          |        |          |

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



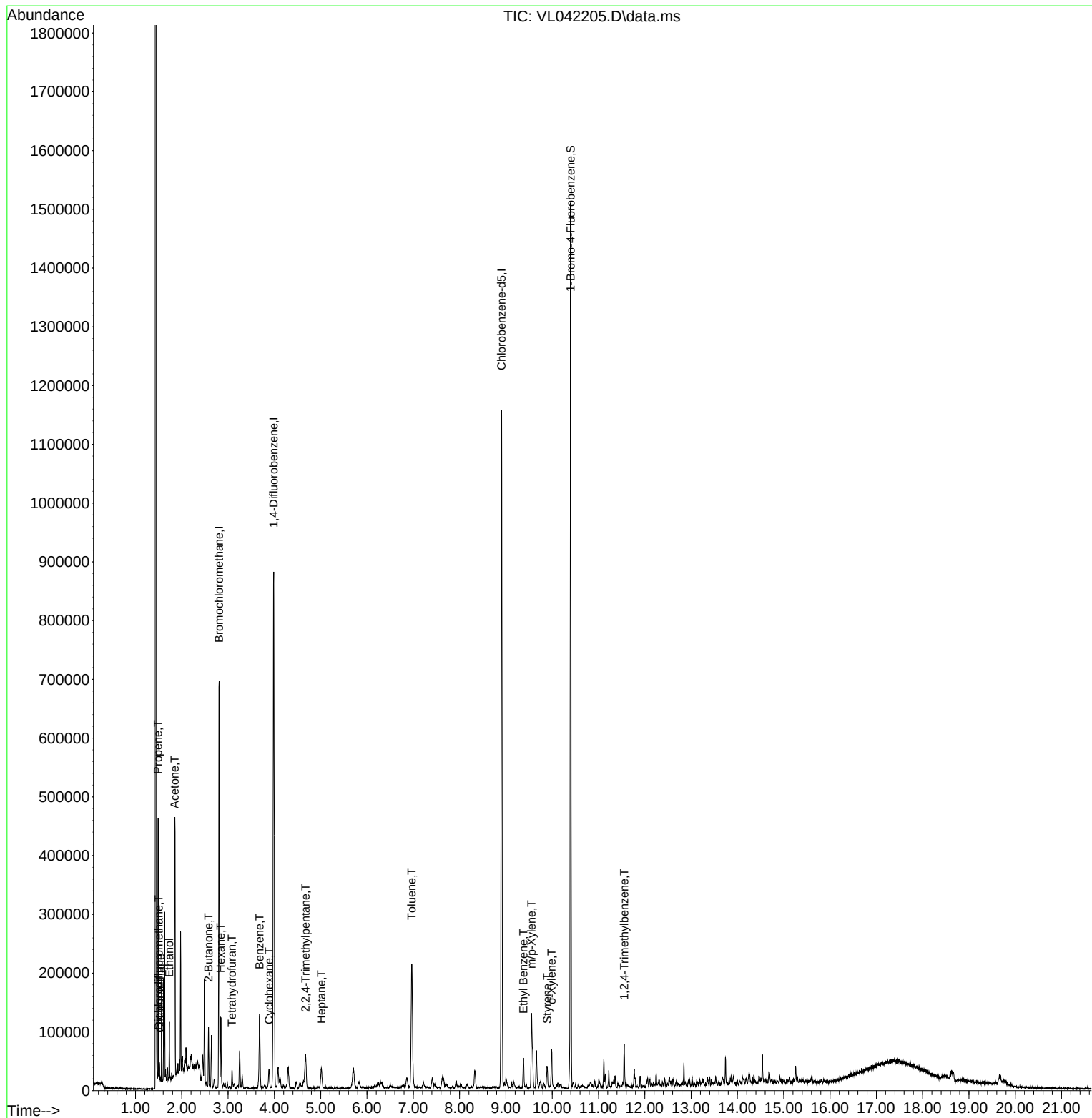
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042205.D  
Acq On : 31 Mar 2025 11:52  
Operator : SY/MD  
Sample : Q1669-06DL 4X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

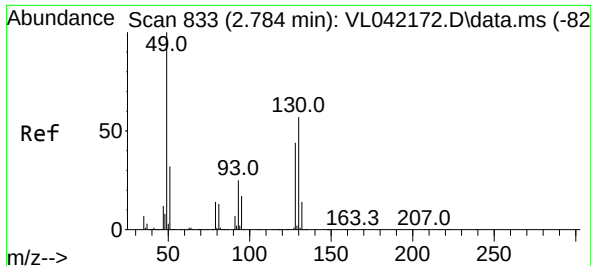
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL

Quant Time: Apr 01 04:03:48 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 02:00:52 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

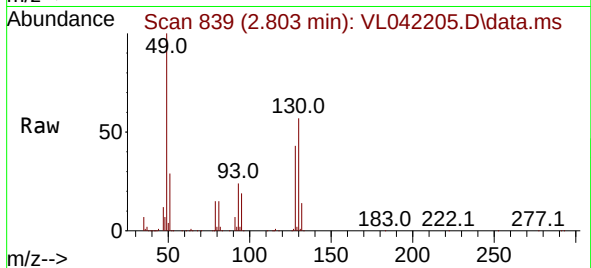
Reviewed By : Semsettin Yesilyurt 04/01/2025  
Supervised By : Mahesh Dadoda 04/01/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.803 min Scan# 81  
Delta R.T. 0.019 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

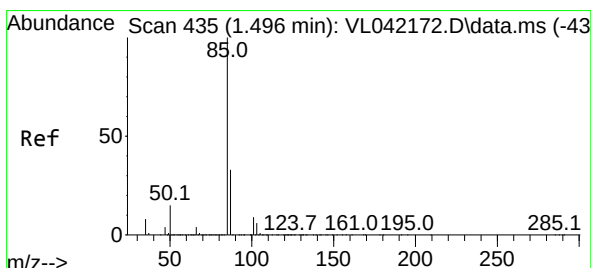
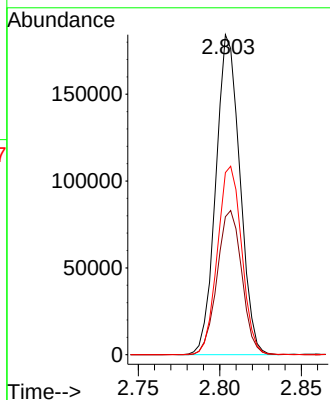
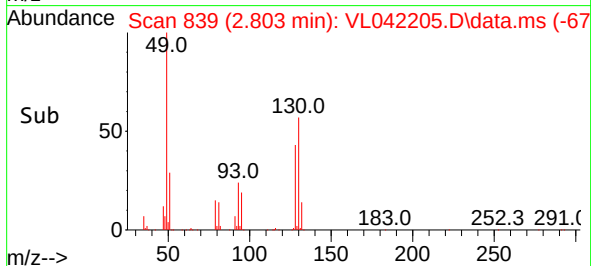
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL



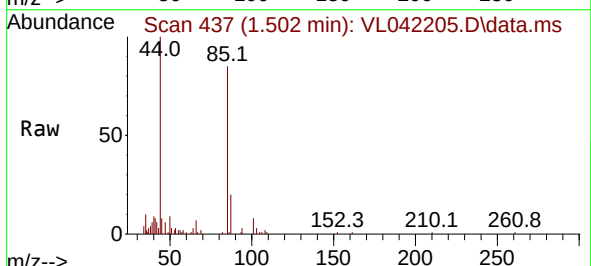
Tgt Ion: 49 Resp: 188934  
Ion Ratio Lower Upper  
49 100  
128 46.3 22.9 68.5  
130 59.5 28.8 86.4

Manual Integrations  
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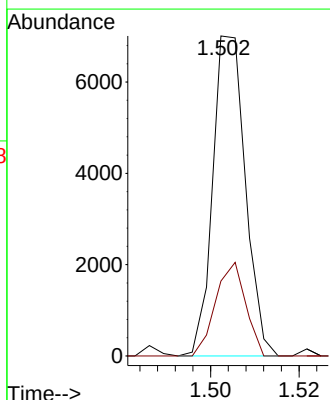
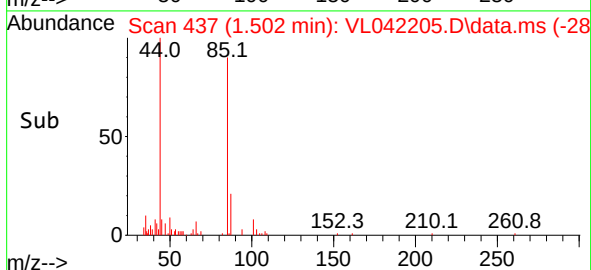
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

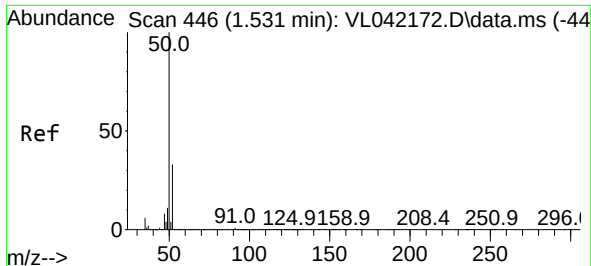


#2  
Dichlorodifluoromethane  
Concen: 0.129 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.007 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52



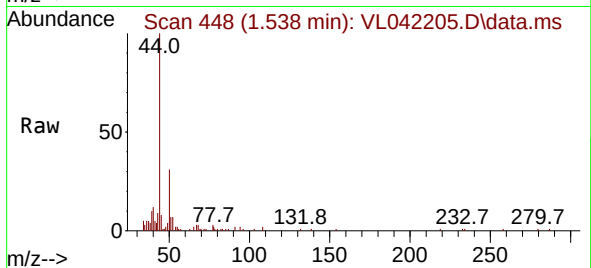
Tgt Ion: 85 Resp: 3598  
Ion Ratio Lower Upper  
85 100  
87 23.4 26.1 39.1#





#4  
Chloromethane  
Concen: 0.135 ppbv  
RT: 1.538 min Scan# 446  
Delta R.T. 0.007 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

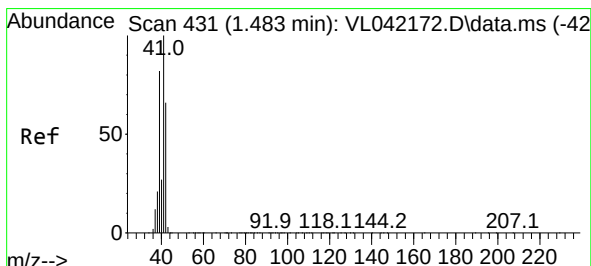
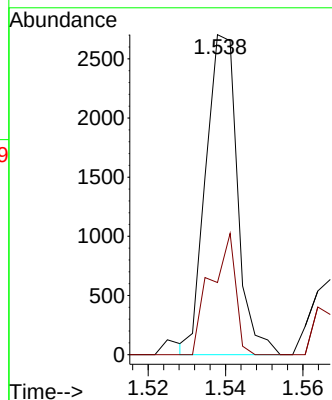
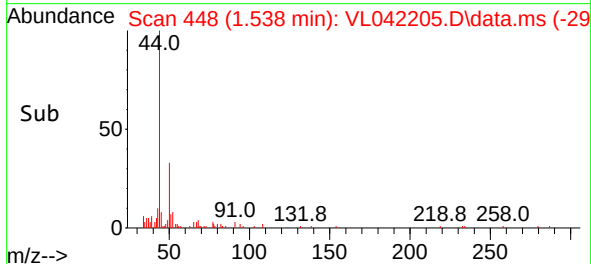
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL



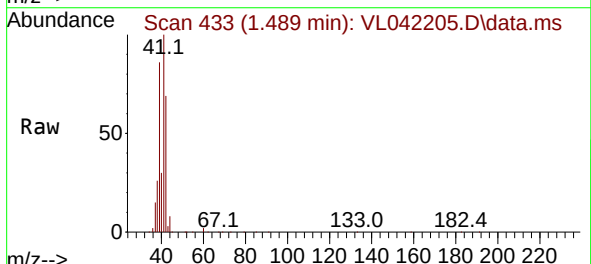
Tgt Ion: 50 Resp: 1530  
Ion Ratio Lower Upper  
50 100  
52 22.6 26.1 39.1

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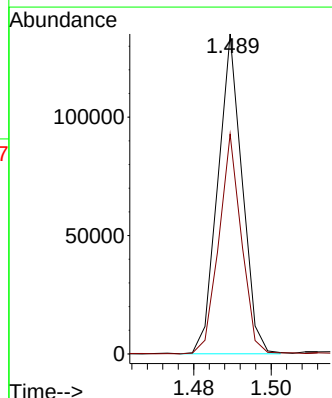
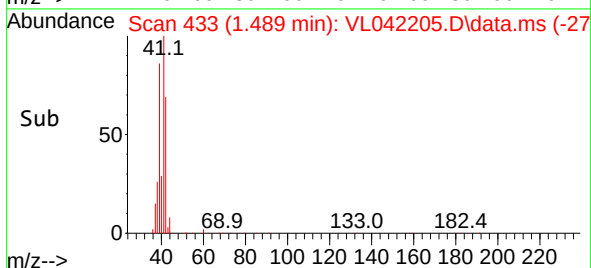
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

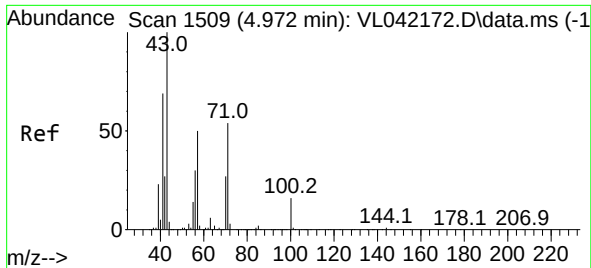


#9  
Propene  
Concen: 4.509 ppbv  
RT: 1.489 min Scan# 433  
Delta R.T. 0.007 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52



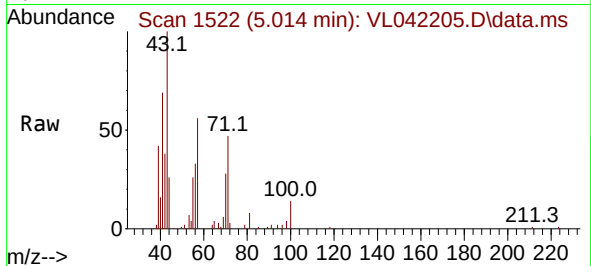
Tgt Ion: 41 Resp: 58893  
Ion Ratio Lower Upper  
41 100  
42 65.3 55.4 83.2





#10  
Heptane  
Concen: 0.430 ppbv m  
RT: 5.014 min Scan# 11  
Delta R.T. 0.042 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

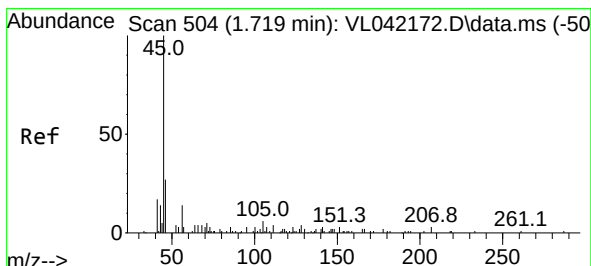
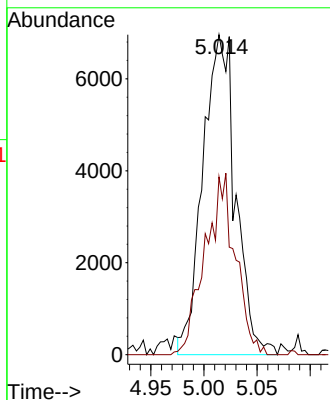
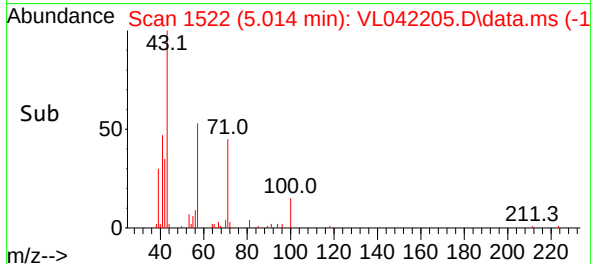
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL



Tgt Ion: 43 Resp: 14950  
Ion Ratio Lower Upper  
43 100  
57 0.0 39.4 59.2

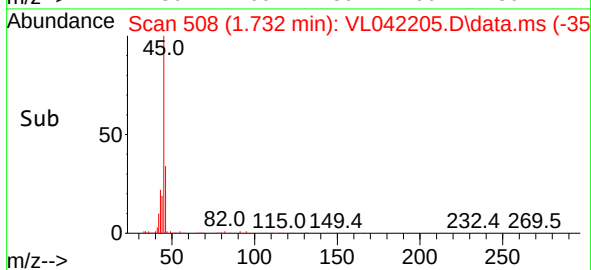
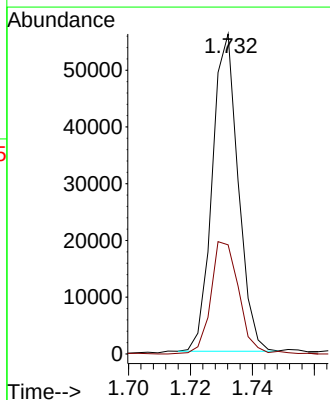
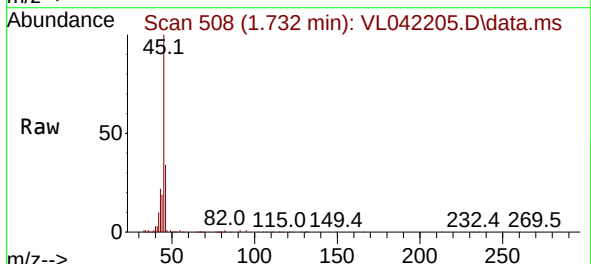
Manual Integrations  
APPROVED

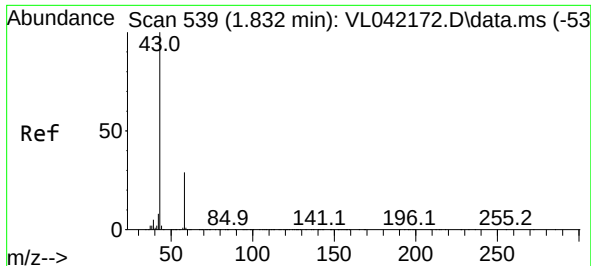
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#13  
Ethanol  
Concen: 26.380 ppbv  
RT: 1.732 min Scan# 508  
Delta R.T. 0.013 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

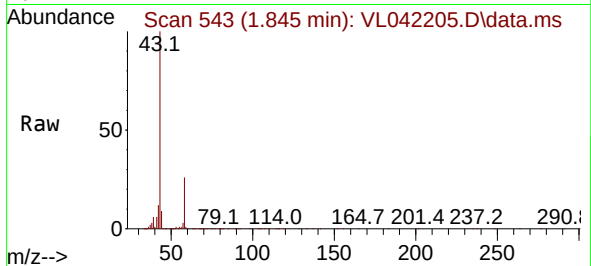
Tgt Ion: 45 Resp: 32574  
Ion Ratio Lower Upper  
45 100  
46 39.1 20.2 80.8





#15  
Acetone  
Concen: 5.687 ppbv m  
RT: 1.845 min Scan# 54  
Delta R.T. 0.013 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

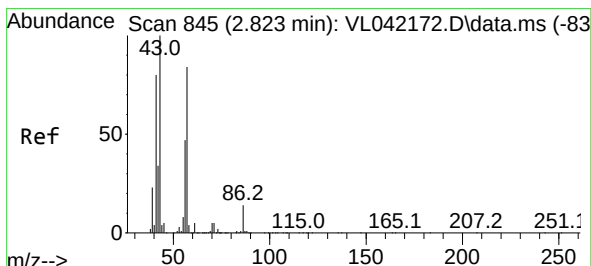
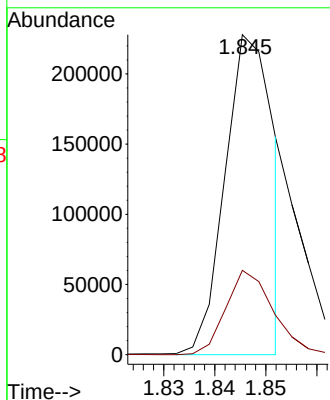
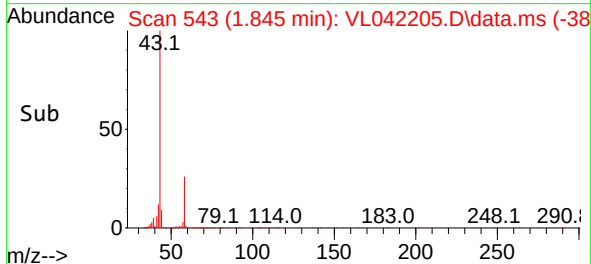
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL



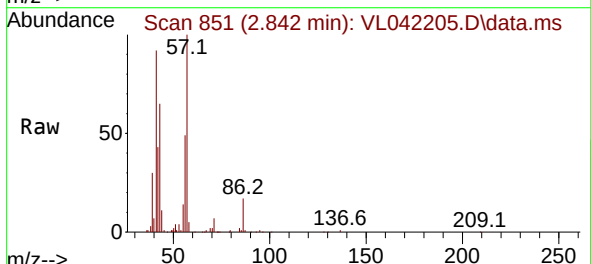
Tgt Ion: 43 Resp: 15026  
Ion Ratio Lower Upper  
43 100  
58 26.3 23.2 34.8

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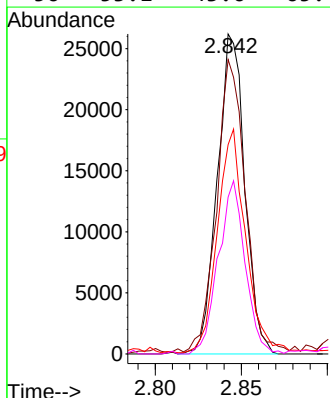
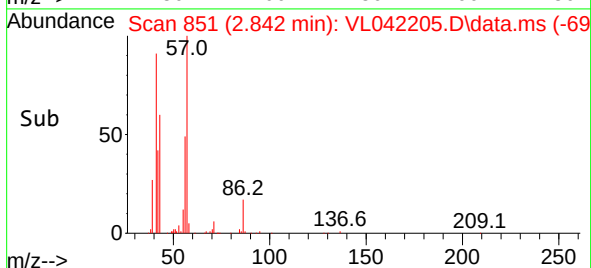
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

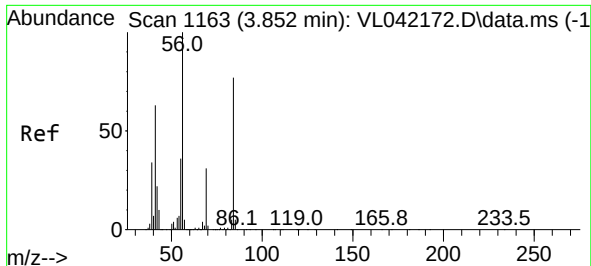


#26  
Hexane  
Concen: 1.095 ppbv  
RT: 2.842 min Scan# 851  
Delta R.T. 0.020 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52



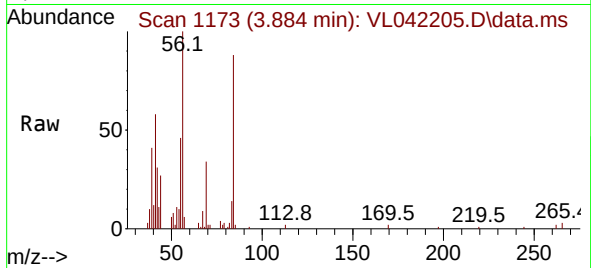
Tgt Ion: 57 Resp: 29019  
Ion Ratio Lower Upper  
57 100  
41 96.6 76.6 114.8  
43 72.3 207.8 311.8#  
56 53.1 43.6 65.4





#30  
Cyclohexane  
Concen: 0.386 ppbv  
RT: 3.884 min Scan# 1163  
Delta R.T. 0.032 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

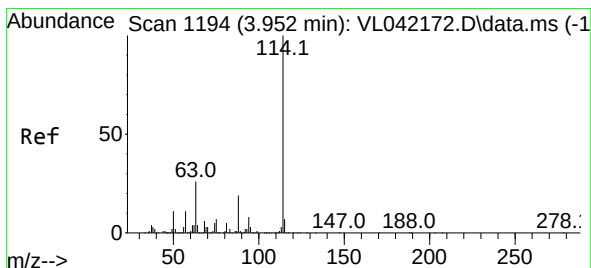
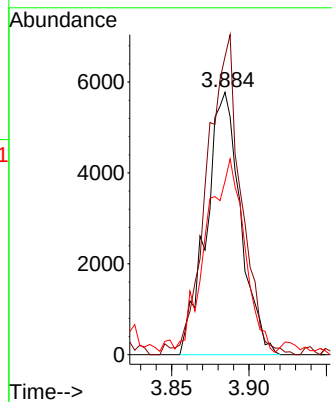
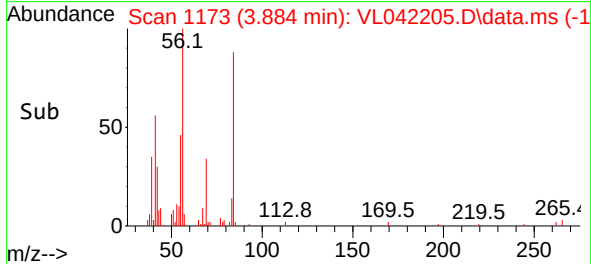
Instrument : MSVOA\_L  
ClientSampleId : SSSG-DUP-1-3262025DL



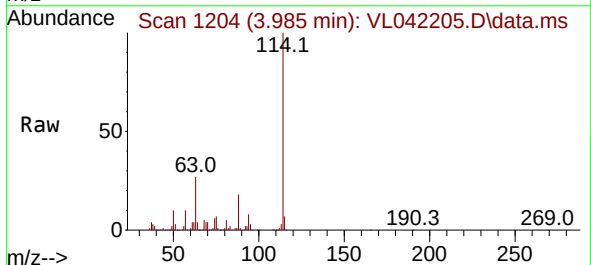
Tgt Ion: 84 Resp: 886  
Ion Ratio Lower Upper  
84 100  
56 121.7 102.8 154.2  
41 84.5 66.5 99.7

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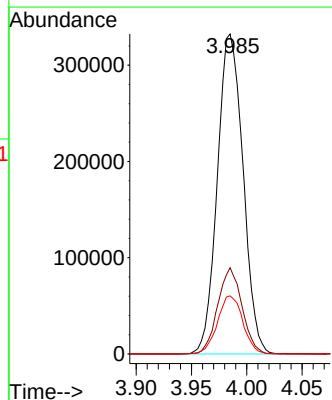
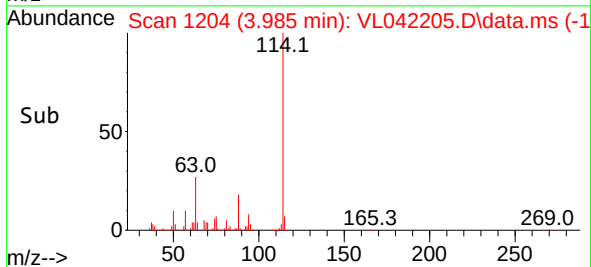
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

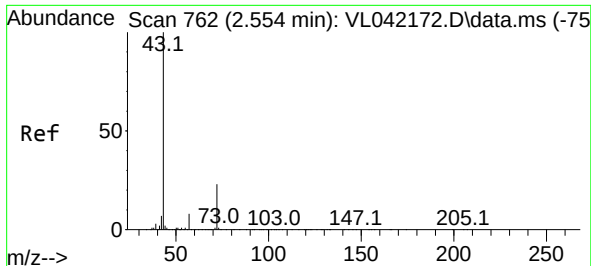


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.985 min Scan# 1204  
Delta R.T. 0.032 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52



Tgt Ion:114 Resp: 537109  
Ion Ratio Lower Upper  
114 100  
63 25.5 20.7 31.1  
88 17.9 15.0 22.4





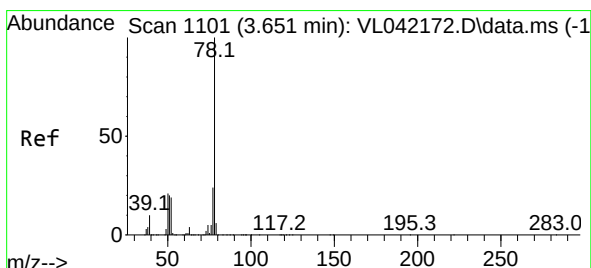
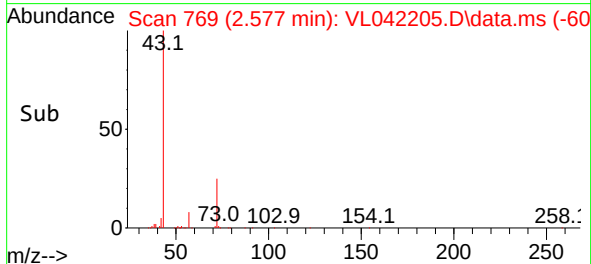
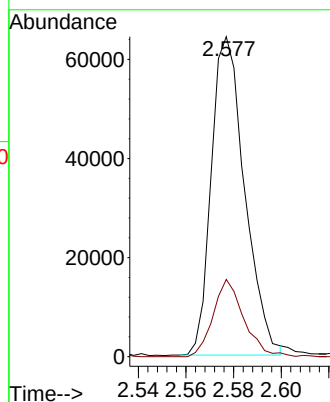
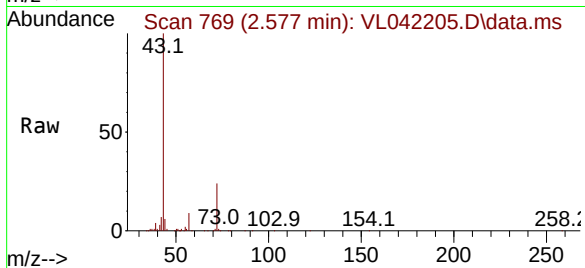
#34  
2-Butanone  
Concen: 1.603 ppbv  
RT: 2.577 min Scan# 70  
Delta R.T. 0.023 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL

Tgt Ion: 43 Resp: 62430  
Ion Ratio Lower Upper  
43 100  
72 22.4 18.2 27.2

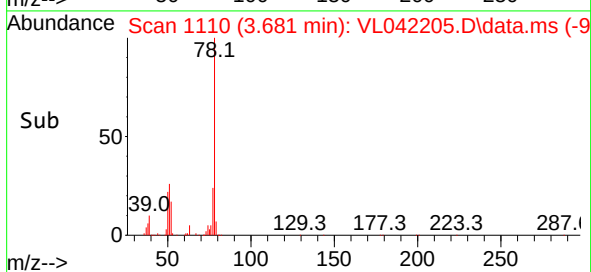
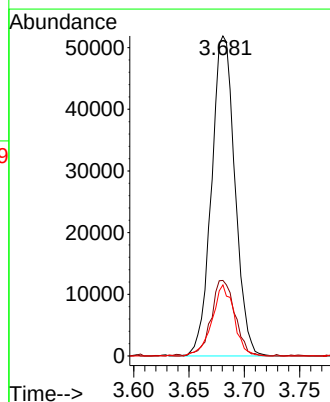
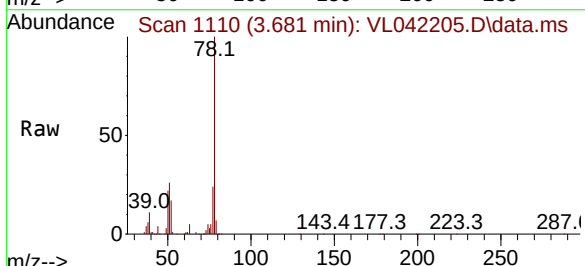
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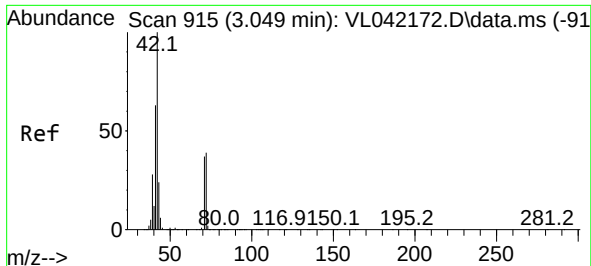
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#36  
Benzene  
Concen: 1.432 ppbv  
RT: 3.681 min Scan# 1110  
Delta R.T. 0.029 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

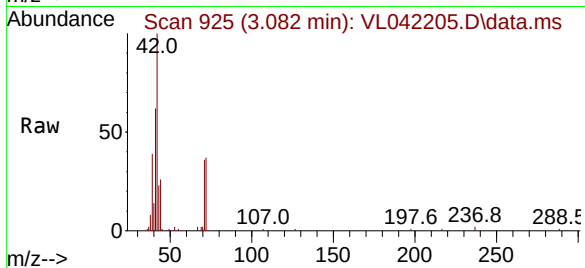
Tgt Ion: 78 Resp: 76263  
Ion Ratio Lower Upper  
78 100  
77 23.5 19.1 28.7  
50 22.2 16.6 24.8





#41  
Tetrahydrofuran  
Concen: 0.516 ppbv m  
RT: 3.082 min Scan# 915  
Delta R.T. 0.032 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

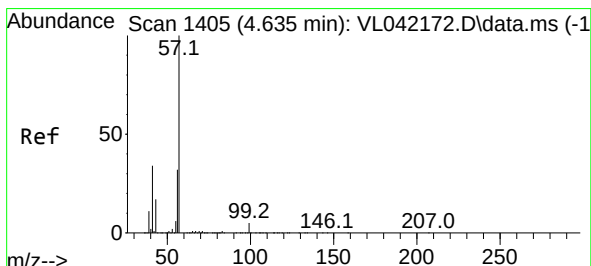
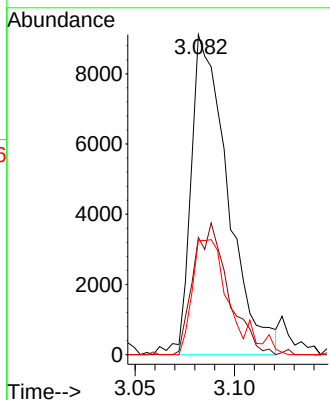
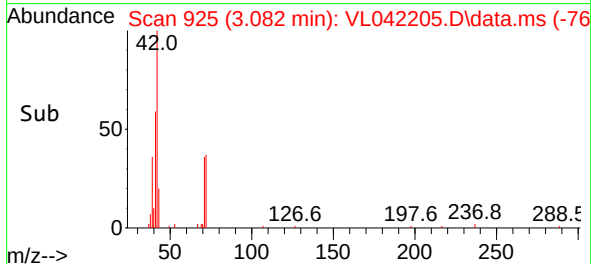
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL



Tgt Ion: 42 Resp: 1157  
Ion Ratio Lower Upper  
42 100  
72 0.0 31.4 47.0#  
71 0.0 30.2 45.4#

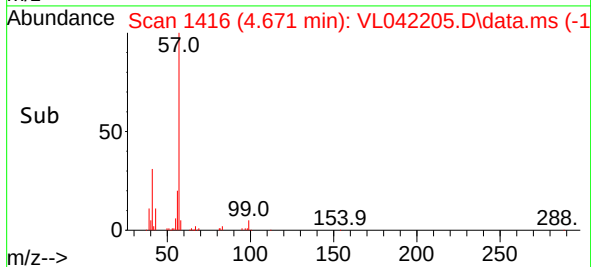
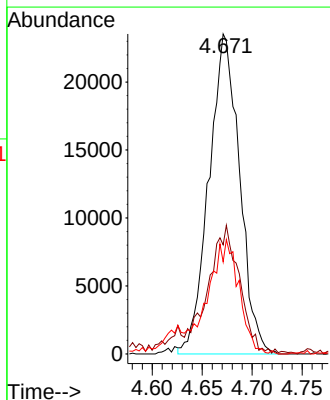
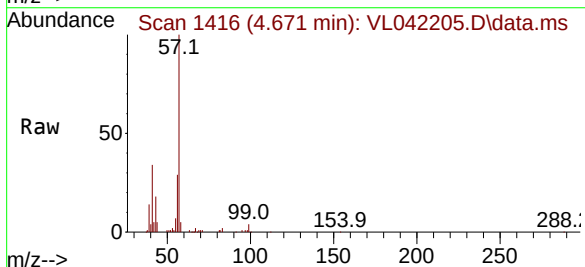
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

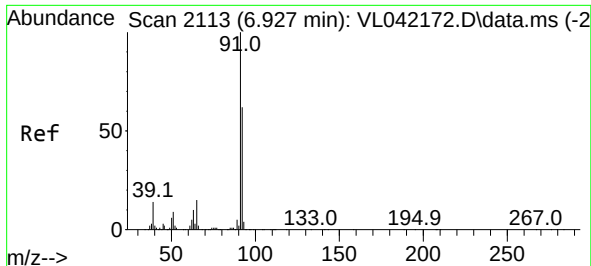


#44  
2,2,4-Trimethylpentane  
Concen: 0.558 ppbv  
RT: 4.671 min Scan# 1416  
Delta R.T. 0.036 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Tgt Ion: 57 Resp: 50242  
Ion Ratio Lower Upper  
57 100  
41 47.6 26.8 40.2#  
56 41.9 25.6 38.4#







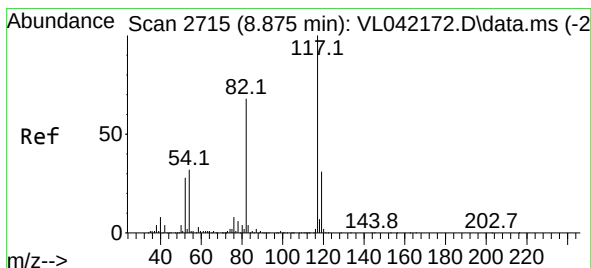
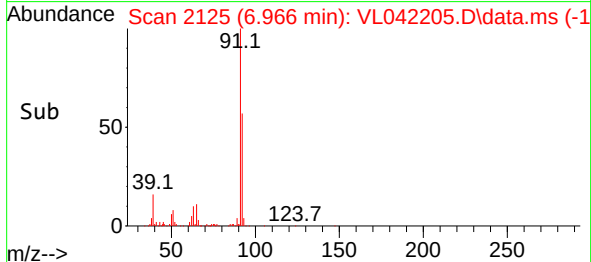
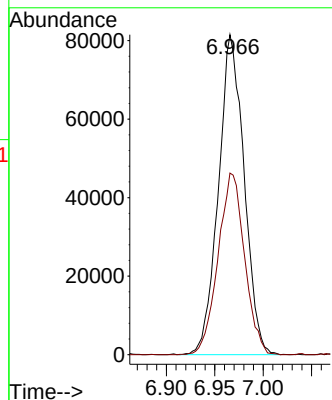
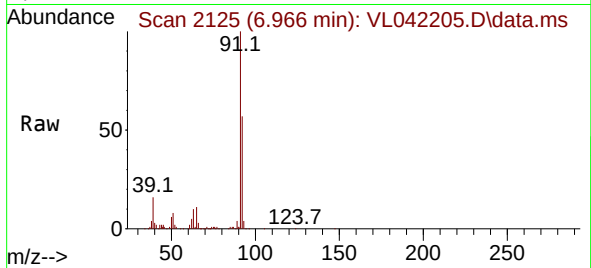
#53  
Toluene  
Concen: 2.381 ppbv  
RT: 6.966 min Scan# 2113  
Delta R.T. 0.039 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL

Tgt Ion: 91 Resp: 150260  
Ion Ratio Lower Upper  
91 100  
92 58.7 48.4 72.6

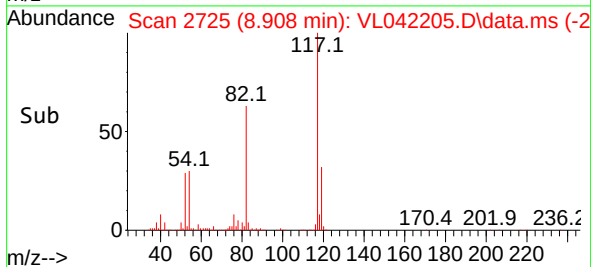
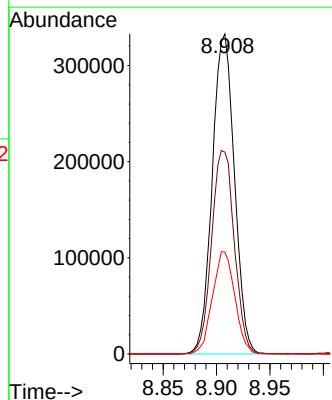
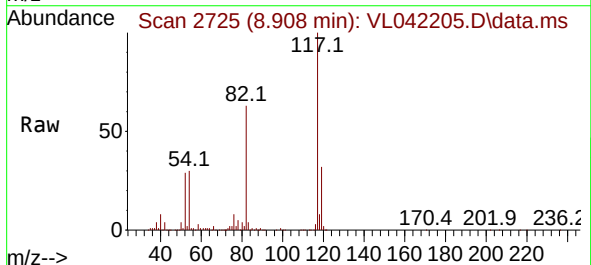
Manual Integrations  
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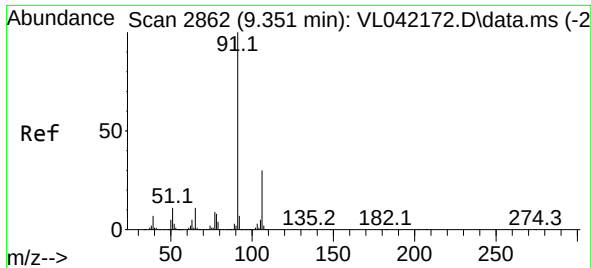
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.908 min Scan# 2725  
Delta R.T. 0.032 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

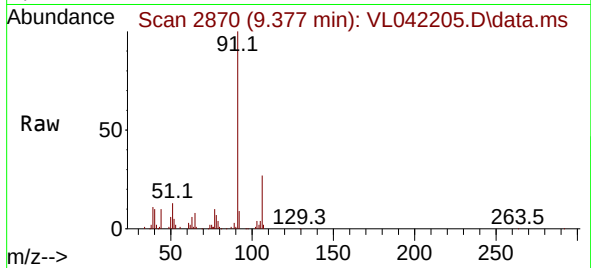
Tgt Ion:117 Resp: 480959  
Ion Ratio Lower Upper  
117 100  
82 65.1 55.8 83.6  
119 32.3 25.5 38.3





#58  
Ethyl Benzene  
Concen: 0.322 ppbv  
RT: 9.377 min Scan# 21  
Delta R.T. 0.026 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

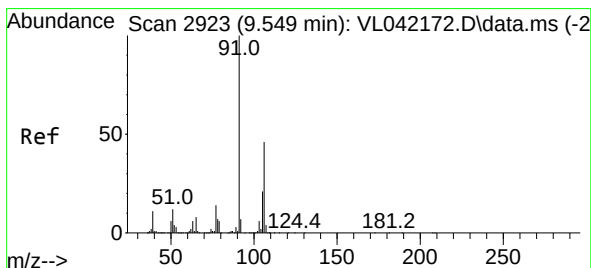
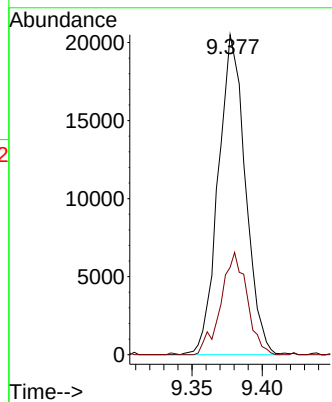
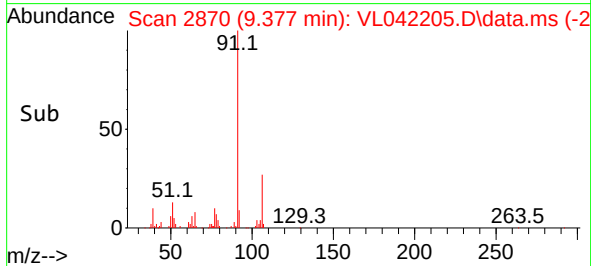
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL



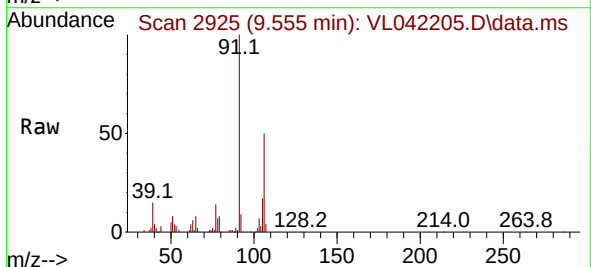
Tgt Ion: 91 Resp: 2747  
Ion Ratio Lower Upper  
91 100  
106 27.3 24.2 36.2

Manual Integrations  
APPROVED

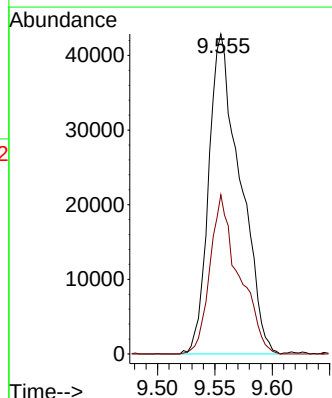
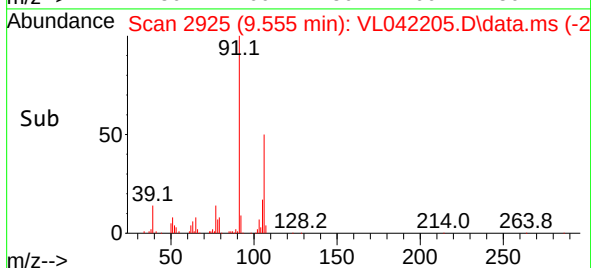
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

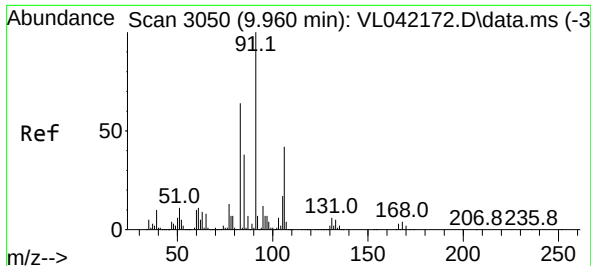


#59  
m/p-Xylene  
Concen: 1.195 ppbv  
RT: 9.555 min Scan# 2925  
Delta R.T. 0.007 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52



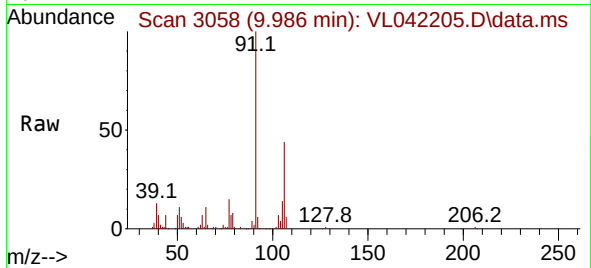
Tgt Ion: 91 Resp: 81487  
Ion Ratio Lower Upper  
91 100  
106 46.0 36.4 54.6





#60  
o-Xylene  
Concen: 0.419 ppbv  
RT: 9.986 min Scan# 3058  
Delta R.T. 0.026 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

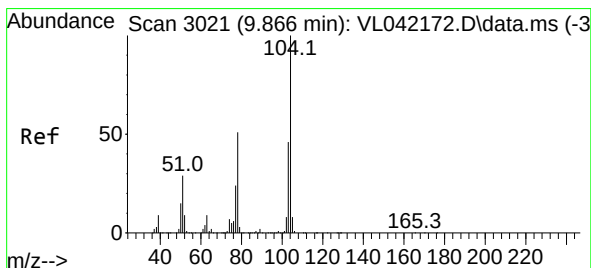
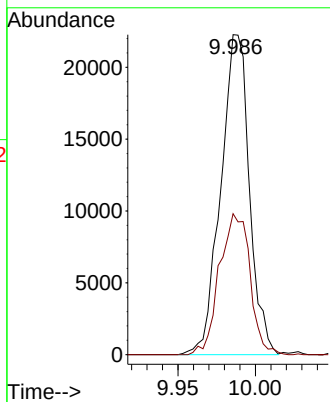
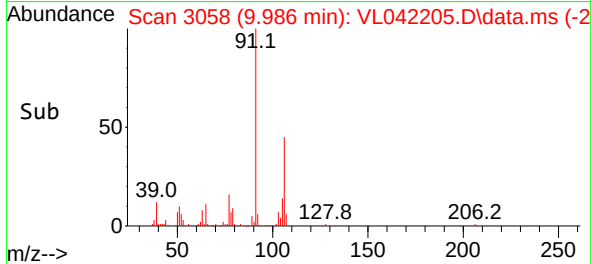
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL



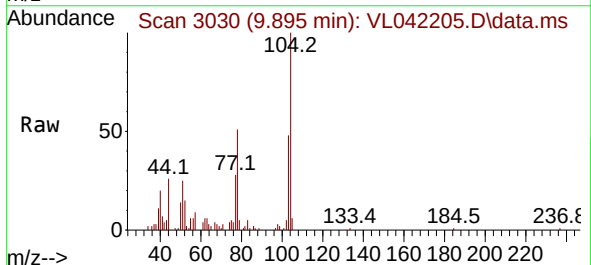
Tgt Ion: 91 Resp: 2863  
Ion Ratio Lower Upper  
91 100  
106 47.0 20.8 62.5

Manual Integrations  
APPROVED

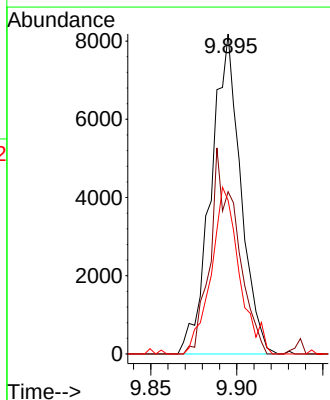
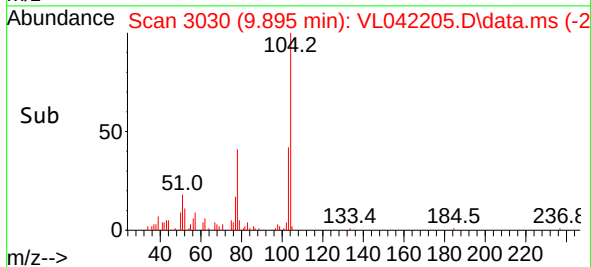
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

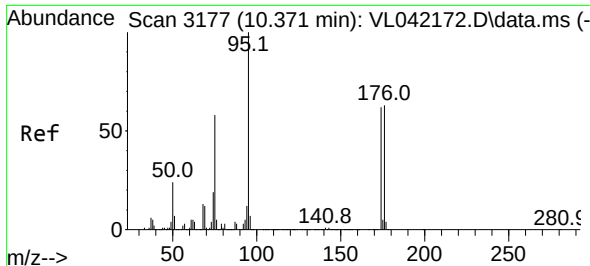


#61  
Styrene  
Concen: 0.291 ppbv  
RT: 9.895 min Scan# 3030  
Delta R.T. 0.029 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52



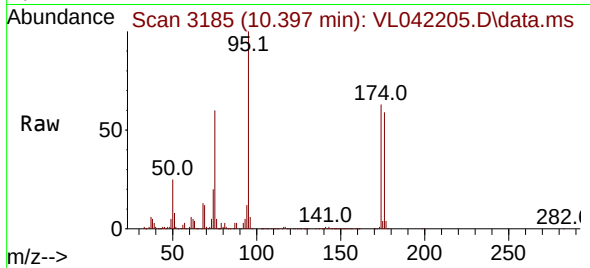
Tgt Ion:104 Resp: 9837  
Ion Ratio Lower Upper  
104 100  
78 59.0 41.8 62.6  
103 50.2 37.0 55.4





#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.841 ppbv  
RT: 10.397 min Scan# 3177  
Delta R.T. 0.026 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

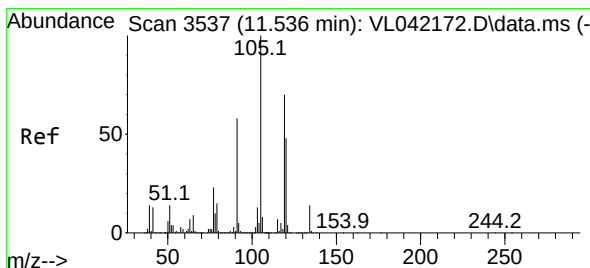
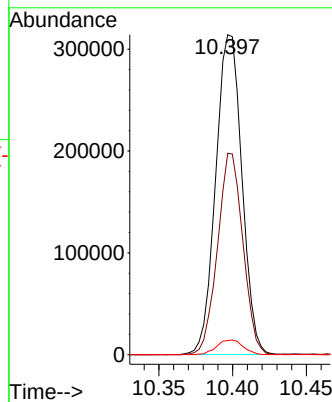
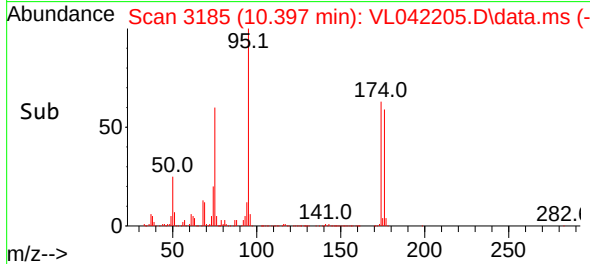
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL



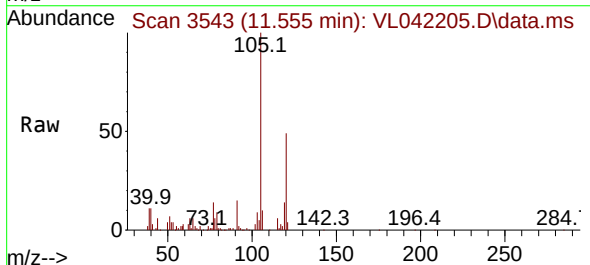
Tgt Ion: 95 Resp: 388692  
Ion Ratio Lower Upper  
95 100  
174 61.0 50.6 76.0  
175 4.7 3.8 5.6

Manual Integrations  
APPROVED

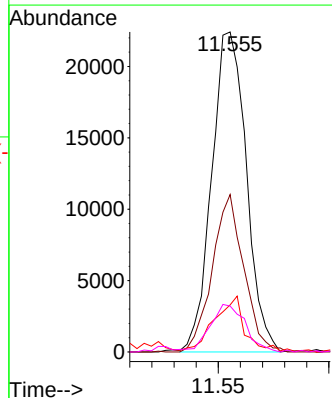
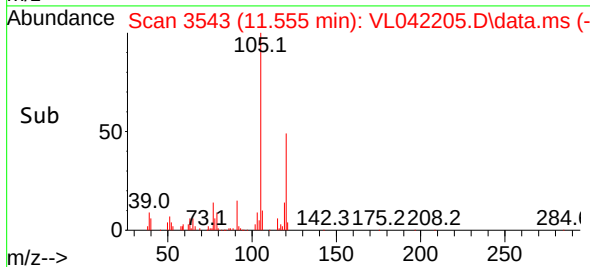
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#74  
1,2,4-Trimethylbenzene  
Concen: 0.285 ppbv  
RT: 11.555 min Scan# 3543  
Delta R.T. 0.019 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52



Tgt Ion:105 Resp: 24393  
Ion Ratio Lower Upper  
105 100  
120 49.2 38.6 58.0  
91 14.3 46.2 69.2#  
77 14.3 18.6 27.8#



## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-B16-1-3262025                              | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-07                                        | 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 |
| VL042198.D        | 1         |           | 03/28/25 01:57 | VL032725      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.52          | 2.57           |           | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.14          | 0.29           | 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                | 0.47          | 1.39           | J         | 0.38  | 1.47       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 0.20          | 1.12           | 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             | 0.63          | 1.91           |           | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 0.32          | 1.31           | J         | 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                        | 35.4          | 84.1           | E         | 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             | 1.50          | 5.21           |           | 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                     | 2.30          | 6.78           |           | 0.35  | 1.47       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 0.040         | 0.25           |           | 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                     | 0.11          | 0.54           | J         | 0.39  | 2.44       | ug/m3 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.050         | 0.27           |           | 0.050 | 0.16       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 0.24          | 1.12           | J         | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 0.45          | 1.44           | J         | 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                | 0.080         | 0.43           |           | 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           | 1.60          | 6.56           |           | 0.37  | 2.05       | ug/m3 |
| 108-88-3       | Toluene                        | 6.10          | 23.0           |           | 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:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-B16-1-3262025                              | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-07                                        | 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 |
| VL042198.D        | 1         |           | 03/28/25 01:57 | VL032725      |

| 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         | 0.15          | 1.02           |           | 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             | 0.54          | 2.35           |           | 0.52  | 2.17       | ug/m3 |
| 179601-23-1 | m/p-Xylene                | 2.00          | 8.69           |           | 0.91  | 4.34       | ug/m3 |
| 95-47-6     | o-Xylene                  | 0.86          | 3.74           |           | 0.52  | 2.17       | ug/m3 |
| 100-42-5    | Styrene                   | 0.78          | 3.32           |           | 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    | 0.20          | 0.98           | J         | 0.54  | 2.46       | ug/m3 |
| 95-63-6     | 1,2,4-Trimethylbenzene    | 0.49          | 2.41           | 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                    | 1.10          | 3.88           |           | 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 |

### SURROGATES

|          |                         |      |  |                     |      |         |
|----------|-------------------------|------|--|---------------------|------|---------|
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.0 |  | 70 (65) - 130 (135) | 100% | SPK: 10 |
|----------|-------------------------|------|--|---------------------|------|---------|

### INTERNAL STANDARDS

|           |                     |        |       |
|-----------|---------------------|--------|-------|
| 74-97-5   | Bromochloromethane  | 175000 | 2.79  |
| 540-36-3  | 1,4-Difluorobenzene | 504000 | 3.962 |
| 3114-55-4 | Chlorobenzene-d5    | 457000 | 8.881 |

### TENTATIVE IDENTIFIED COMPOUNDS

|             |                      |      |   |      |      |
|-------------|----------------------|------|---|------|------|
| 115-07-1    | Propene              | 0.88 | J | 1.48 | ppbv |
| 000115-11-7 | 1-Propene, 2-methyl- | 2.30 | J | 1.60 | ppbv |
| 000106-97-8 | Butane               | 1.20 | J | 1.62 | ppbv |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-B16-1-3262025                              | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-07                                        | 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 |
| VL042198.D        | 1         |           | 03/28/25 01:57 | VL032725      |

| CAS Number  | Parameter          | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|-------------|--------------------|---------------|----------------|-----------|-----|------------|-------|
| 000109-66-0 | Pentane            | 1.00          |                | J         |     | 1.97       | ppbv  |
| 000107-83-5 | Pentane, 2-methyl- | 1.30          |                | J         |     | 2.48       | ppbv  |
| 103-65-1    | n-propylbenzene    | 0.15          |                | J         |     | 11.0       | ppbv  |

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\VL032725\  
 Data File : VL042198.D  
 Acq On : 28 Mar 2025 01:57  
 Operator : SY/MD  
 Sample : Q1669-07  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-B16-1-3262025

Quant Time: Mar 28 23:03:39 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 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

| Compound                    |  | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--|--------|-------|----------|----------|------------|----------|
| -----                       |  |        |       |          |          |            |          |
| Internal Standards          |  |        |       |          |          |            |          |
| 1) Bromochloromethane       |  | 2.790  | 49    | 175214   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene     |  | 3.962  | 114   | 504192   | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5        |  | 8.881  | 117   | 456695   | 10.000   | ppbv       | 0.00     |
|                             |  |        |       |          |          |            |          |
| System Monitoring Compounds |  |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene |  | 10.377 | 95    | 374920   | 9.997    | ppbv       | 0.00     |
| Spiked Amount               |  | 10.000 | Range | 65 - 135 | Recovery | = 100.000% |          |
|                             |  |        |       |          |          |            |          |
| Target Compounds            |  |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane  |  | 1.495  | 85    | 13401    | 0.518    | ppbv       | 96       |
| 4) Chloromethane            |  | 1.528  | 50    | 1536     | 0.145    | ppbv #     | 64       |
| 9) Propene                  |  | 1.479  | 41    | 10650    | 0.879    | ppbv       | 96       |
| 10) Heptane                 |  | 4.978  | 43    | 10394m   | 0.323    | ppbv       |          |
| 11) Trichlorofluoromethane  |  | 1.877  | 101   | 5125     | 0.204    | ppbv       | 91       |
| 13) Ethanol                 |  | 1.722  | 45    | 170673   | 149.043  | ppbv       | 82       |
| 15) Acetone                 |  | 1.835  | 43    | 866562   | 35.363   | ppbv       | 98       |
| 17) tert-Butyl alcohol      |  | 2.042  | 59    | 19215    | 0.630    | ppbv #     | 89       |
| 20) Methylene Chloride      |  | 2.065  | 84    | 14093    | 1.544    | ppbv       | 94       |
| 26) Hexane                  |  | 2.829  | 57    | 26539    | 1.080    | ppbv #     | 33       |
| 29) Chloroform              |  | 2.852  | 83    | 3953     | 0.110    | ppbv       | 93       |
| 30) Cyclohexane             |  | 3.858  | 84    | 4530m    | 0.212    | ppbv       |          |
| 32) 1,1,1-Trichloroethane   |  | 3.376  | 97    | 2054     | 0.050    | ppbv       | 89       |
| 34) 2-Butanone              |  | 2.564  | 43    | 85672    | 2.343    | ppbv       | 99       |
| 35) Carbon Tetrachloride    |  | 3.764  | 117   | 1493m    | 0.038    | ppbv       |          |
| 36) Benzene                 |  | 3.661  | 78    | 22692    | 0.454    | ppbv #     | 92       |
| 38) Trichloroethene         |  | 4.548  | 130   | 1734m    | 0.083    | ppbv       |          |
| 41) Tetrahydrofuran         |  | 3.065  | 42    | 9870     | 0.469    | ppbv       | 95       |
| 44) 2,2,4-Trimethylpentane  |  | 4.641  | 57    | 20106m   | 0.238    | ppbv       |          |
| 50) 4-Methyl-2-Pentanone    |  | 5.768  | 43    | 90838    | 1.568    | ppbv       | 99       |
| 52) Tetrachloroethene       |  | 8.224  | 164   | 2909     | 0.147    | ppbv #     | 78       |
| 53) Toluene                 |  | 6.936  | 91    | 360213   | 6.079    | ppbv       | 100      |
| 58) Ethyl Benzene           |  | 9.354  | 91    | 43413    | 0.535    | ppbv #     | 87       |
| 59) m/p-Xylene              |  | 9.532  | 91    | 127535   | 1.969    | ppbv       | 99       |
| 60) o-Xylene                |  | 9.966  | 91    | 56023    | 0.863    | ppbv       | 98       |
| 61) Styrene                 |  | 9.869  | 104   | 25026    | 0.779    | ppbv       | 98       |
| 64) n-propylbenzene         |  | 10.989 | 120   | 3769m    | 0.151    | ppbv       |          |
| 73) 1,3,5-Trimethylbenzene  |  | 11.205 | 105   | 14315    | 0.203    | ppbv       | 98       |
| 74) 1,2,4-Trimethylbenzene  |  | 11.536 | 105   | 39507    | 0.486    | ppbv #     | 70       |

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



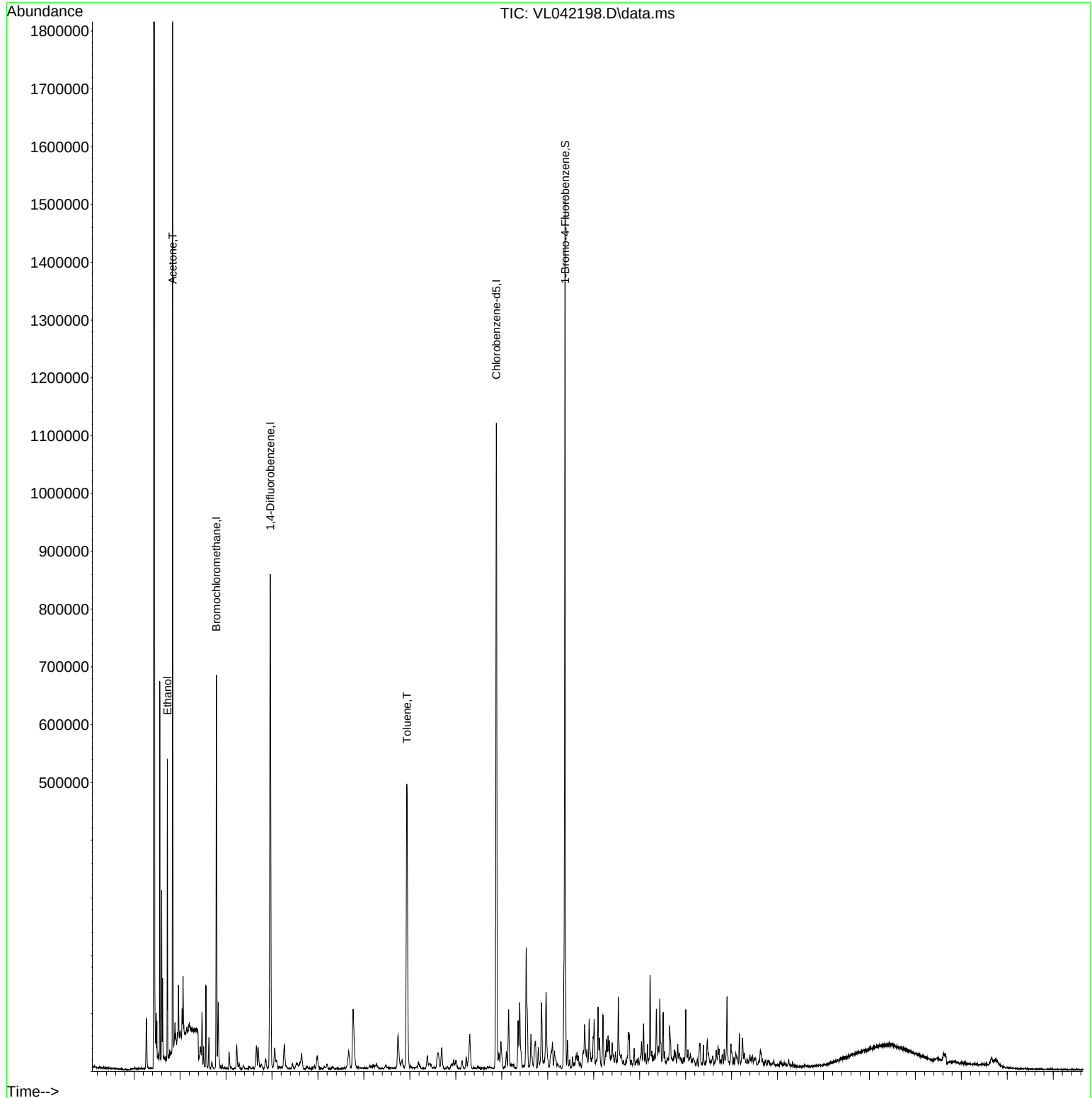
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042198.D  
Acq On : 28 Mar 2025 01:57  
Operator : SY/MD  
Sample : Q1669-07  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

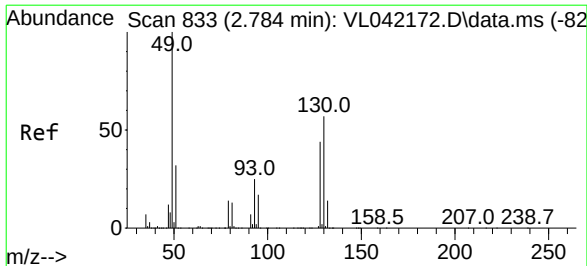
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

Quant Time: Mar 28 23:03:39 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 02:00:52 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

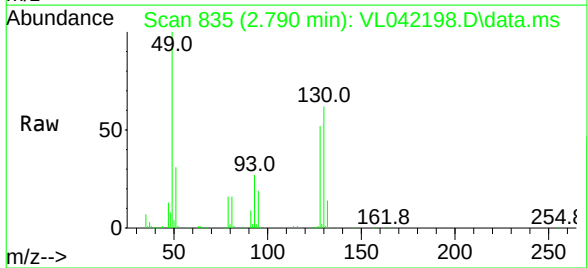
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 833  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

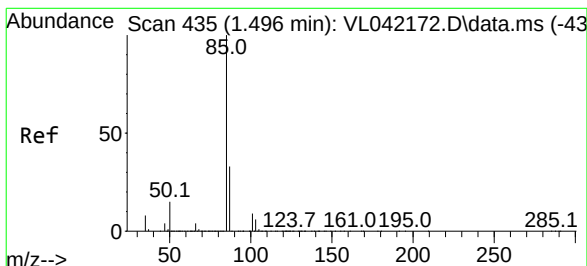
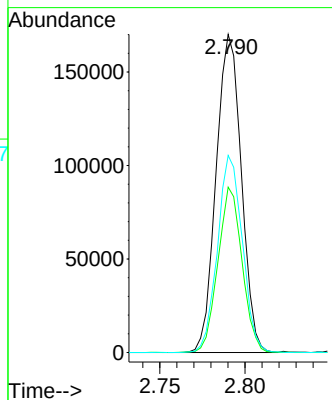
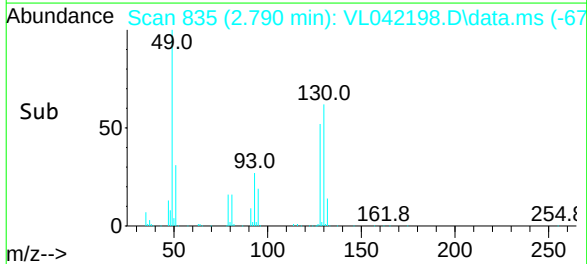
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025



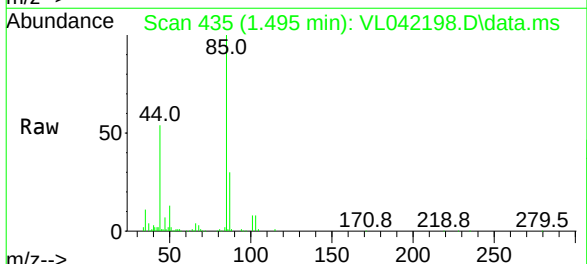
Tgt Ion: 49 Resp: 175214  
Ion Ratio Lower Upper  
49 100  
128 49.8 22.9 68.5  
130 61.1 28.8 86.4

Manual Integrations  
APPROVED

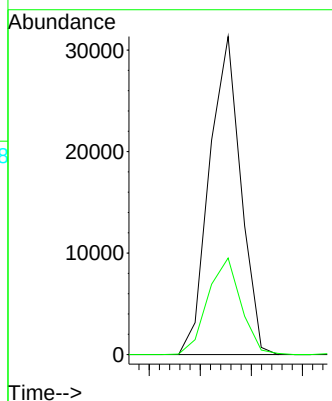
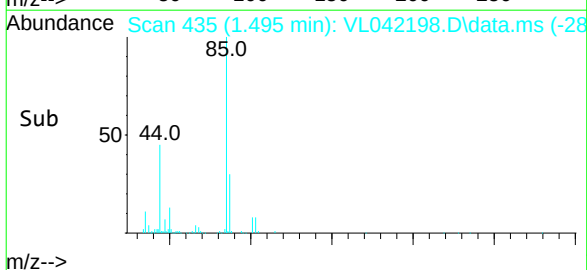
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

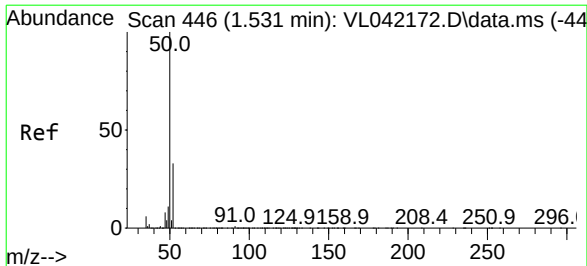


#2  
Dichlorodifluoromethane  
Concen: 0.518 ppbv  
RT: 1.495 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57



Tgt Ion: 85 Resp: 13401  
Ion Ratio Lower Upper  
85 100  
87 30.2 26.1 39.1





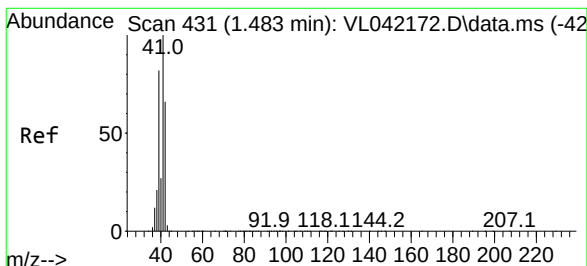
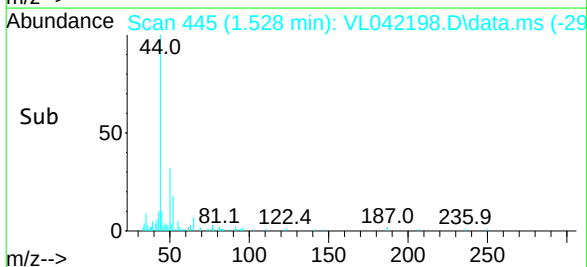
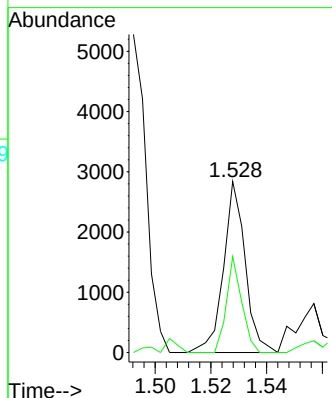
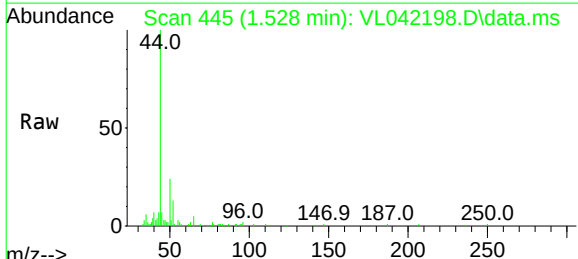
#4  
Chloromethane  
Concen: 0.145 ppbv  
RT: 1.528 min Scan# 44  
Delta R.T. -0.004 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

Tgt Ion: 50 Resp: 1536  
Ion Ratio Lower Upper  
50 100  
52 52.7 26.1 39.1#

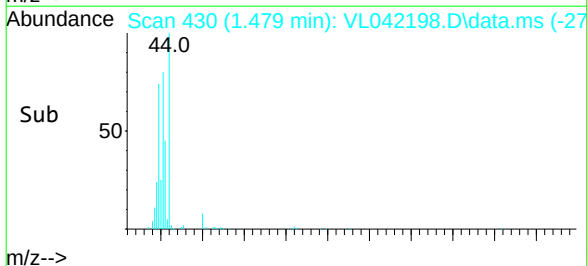
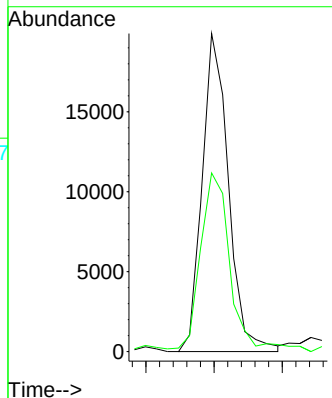
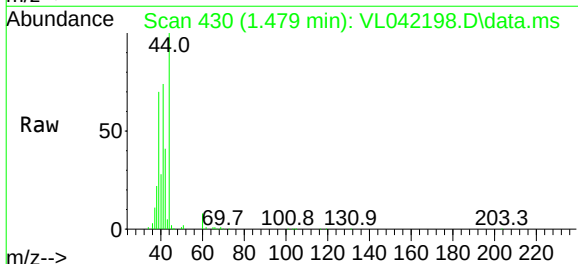
Manual Integrations  
APPROVED

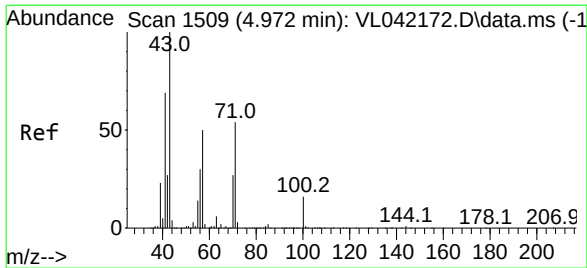
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#9  
Propene  
Concen: 0.879 ppbv  
RT: 1.479 min Scan# 430  
Delta R.T. -0.004 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 41 Resp: 10650  
Ion Ratio Lower Upper  
41 100  
42 66.4 55.4 83.2





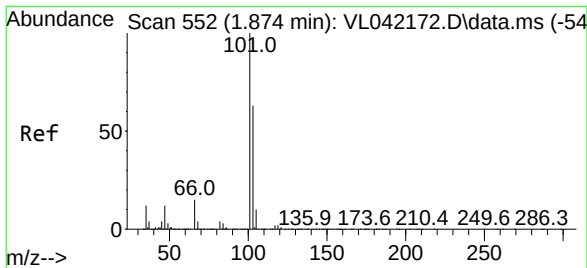
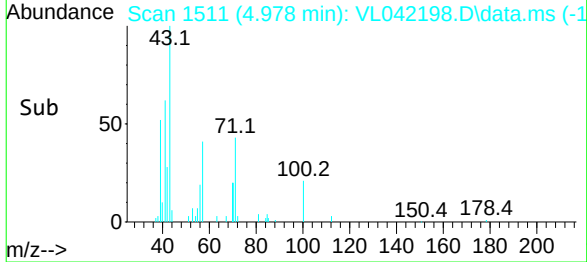
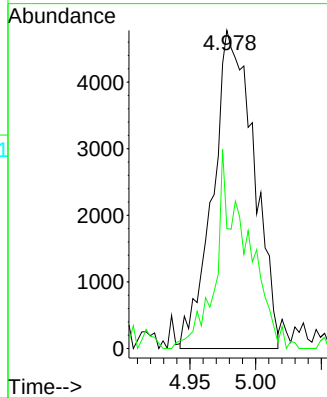
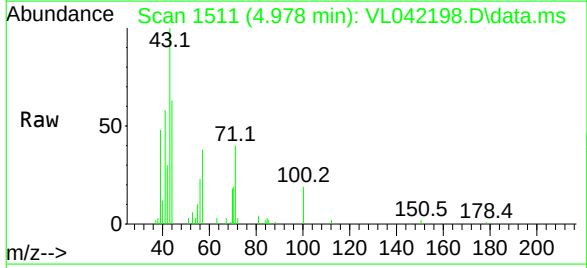
#10  
Heptane  
Concen: 0.323 ppbv m  
RT: 4.978 min Scan# 1509  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

Tgt Ion: 43 Resp: 10394  
Ion Ratio Lower Upper  
43 100  
57 47.0 39.4 59.2

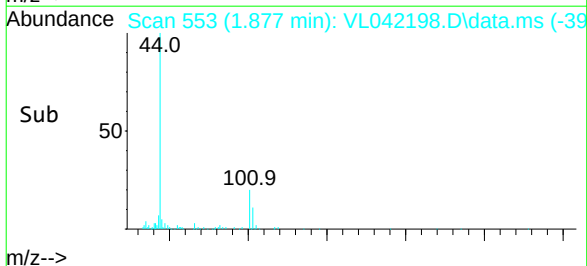
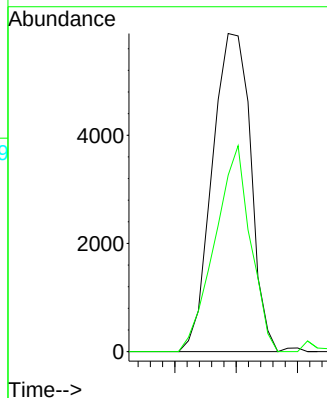
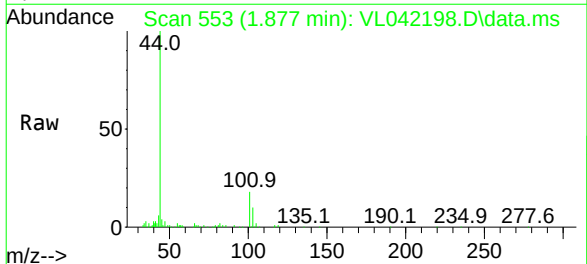
Manual Integrations  
APPROVED

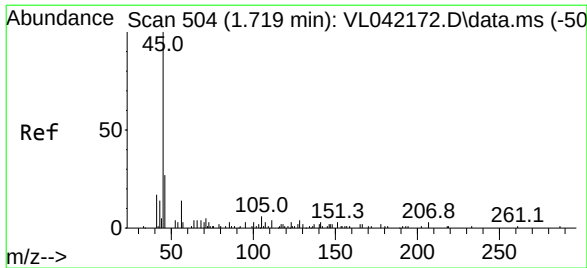
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#11  
Trichlorofluoromethane  
Concen: 0.204 ppbv  
RT: 1.877 min Scan# 553  
Delta R.T. 0.003 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion:101 Resp: 5125  
Ion Ratio Lower Upper  
101 100  
103 55.4 50.2 75.2





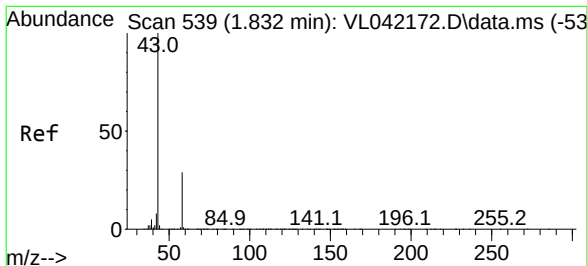
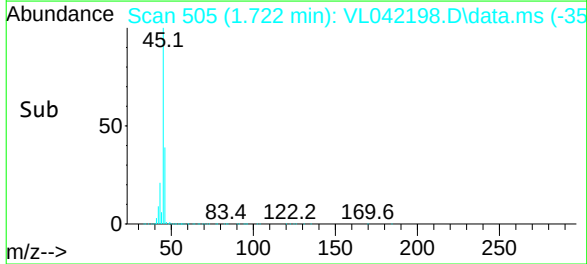
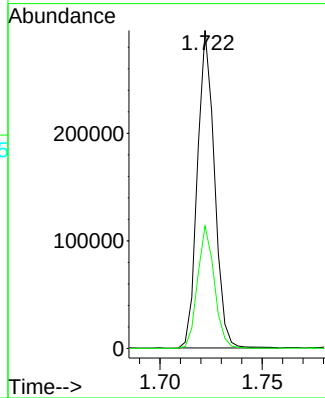
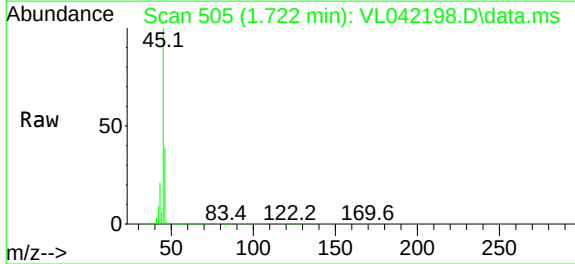
#13  
Ethanol  
Concen: 149.043 ppbv  
RT: 1.722 min Scan# 50  
Delta R.T. 0.003 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

Tgt Ion: 45 Resp: 170673  
Ion Ratio Lower Upper  
45 100  
46 38.0 20.2 80.8

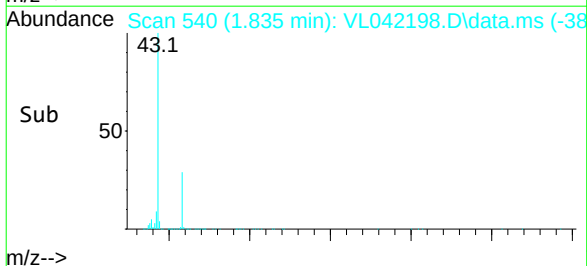
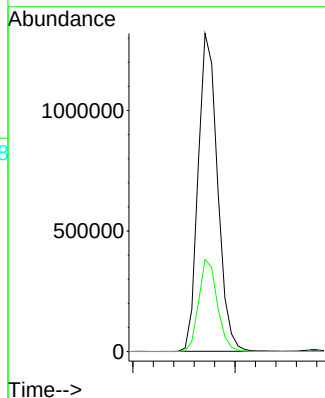
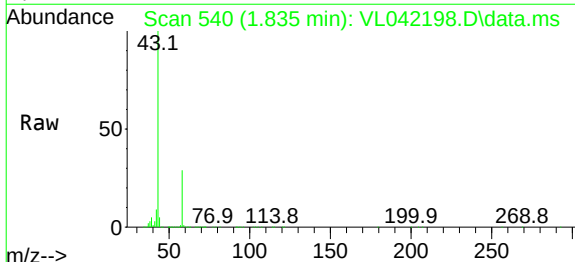
Manual Integrations  
APPROVED

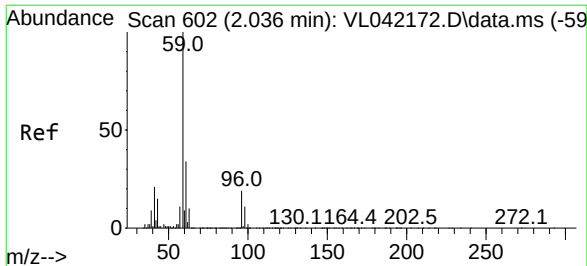
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#15  
Acetone  
Concen: 35.363 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. 0.003 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 43 Resp: 866562  
Ion Ratio Lower Upper  
43 100  
58 28.0 23.2 34.8





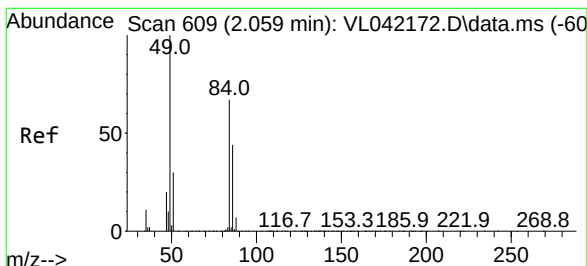
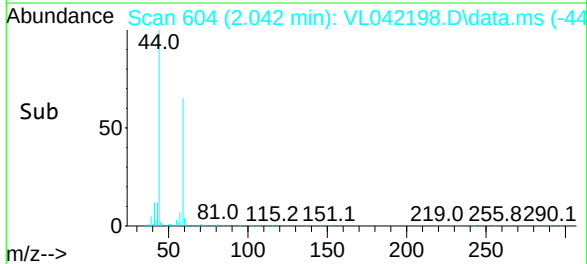
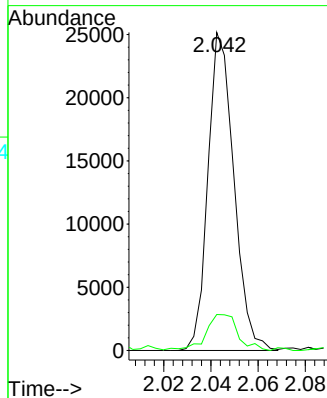
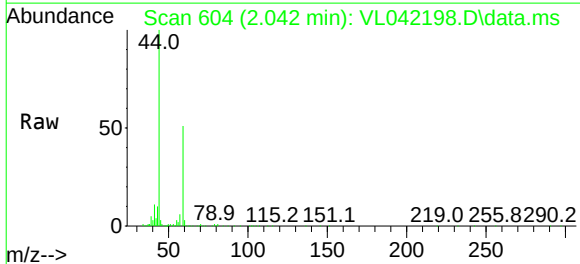
#17  
tert-Butyl alcohol  
Concen: 0.630 ppbv  
RT: 2.042 min Scan# 601  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

Tgt Ion: 59 Resp: 19215  
Ion Ratio Lower Upper  
59 100  
57 15.1 8.9 13.3#

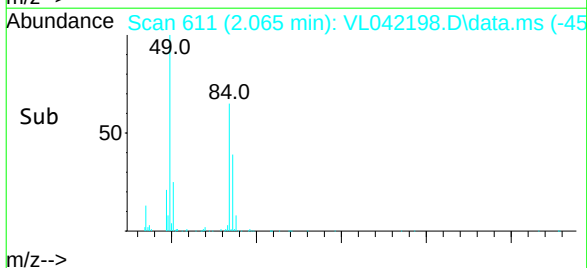
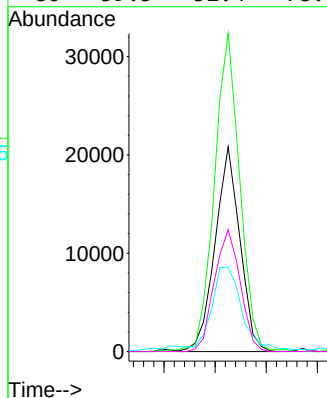
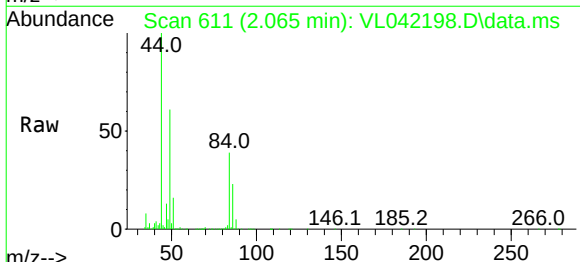
Manual Integrations  
APPROVED

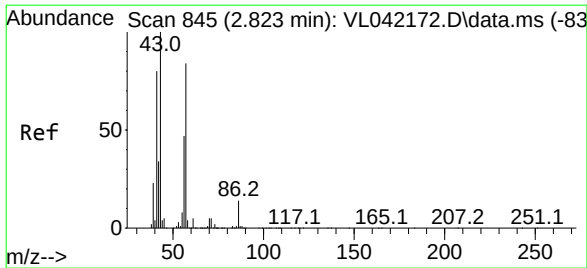
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#20  
Methylene Chloride  
Concen: 1.544 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

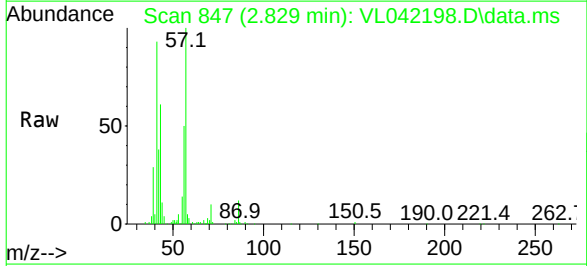
Tgt Ion: 84 Resp: 14093  
Ion Ratio Lower Upper  
84 100  
49 154.4 120.2 180.4  
51 39.8 37.4 56.0  
86 59.5 52.4 78.6





#26  
Hexane  
Concen: 1.080 ppbv  
RT: 2.829 min Scan# 845  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

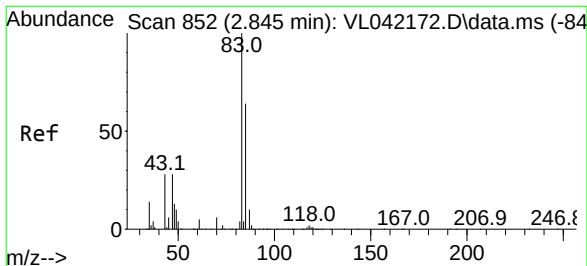
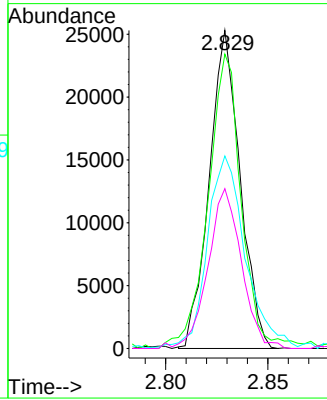
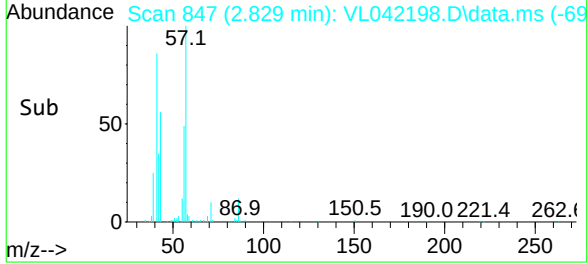
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025



Tgt Ion: 57 Resp: 26539  
Ion Ratio Lower Upper  
57 100  
41 104.4 76.6 114.8  
43 75.7 207.8 311.8#  
56 54.6 43.6 65.4

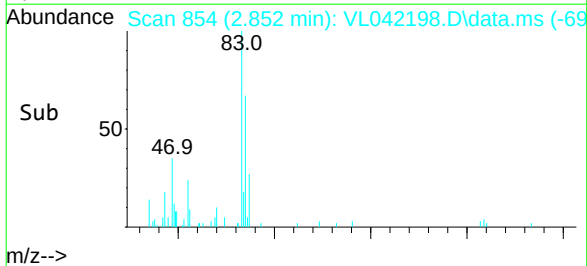
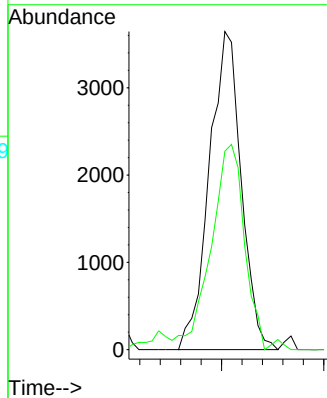
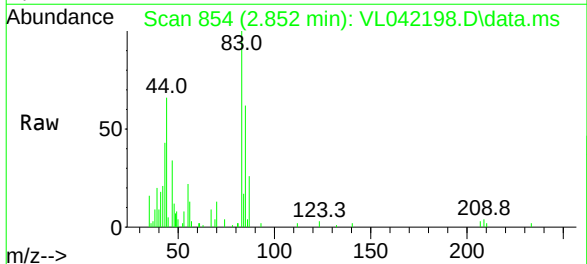
Manual Integrations  
APPROVED

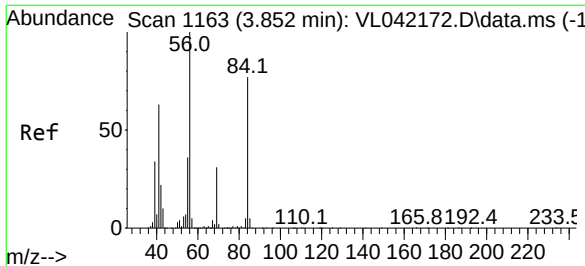
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#29  
Chloroform  
Concen: 0.110 ppbv  
RT: 2.852 min Scan# 854  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

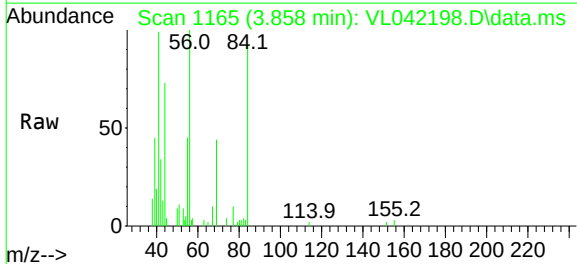
Tgt Ion: 83 Resp: 3953  
Ion Ratio Lower Upper  
83 100  
85 59.2 51.4 77.2





#30  
Cyclohexane  
Concen: 0.212 ppbv m  
RT: 3.858 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

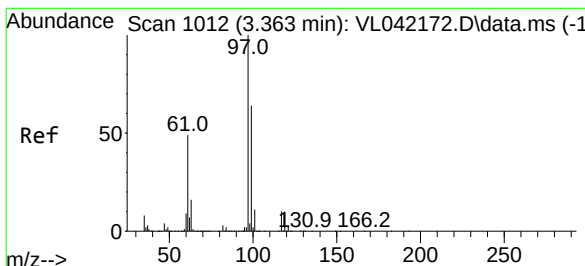
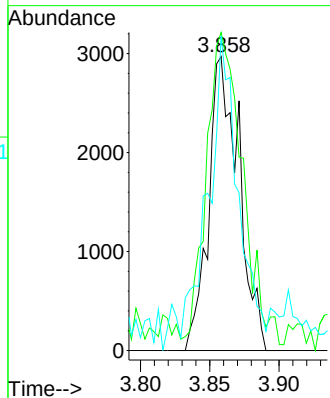
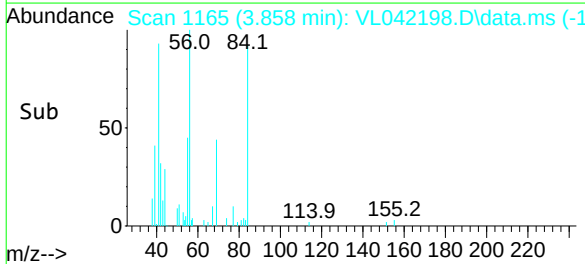
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025



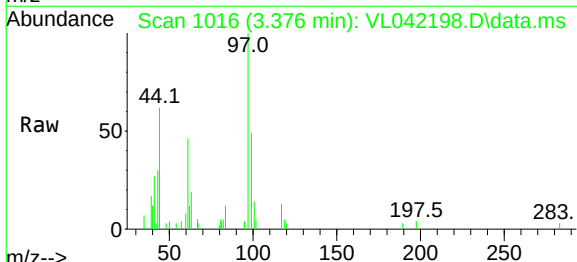
Tgt Ion: 84 Resp: 4530  
Ion Ratio Lower Upper  
84 100  
56 131.8 102.8 154.2  
41 131.0 66.5 99.7#

Manual Integrations  
APPROVED

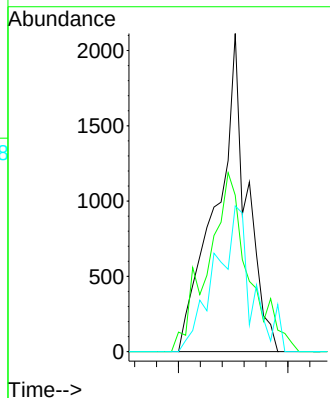
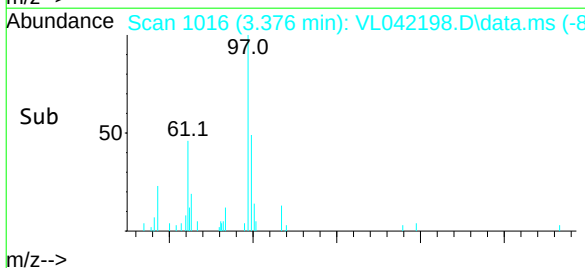
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



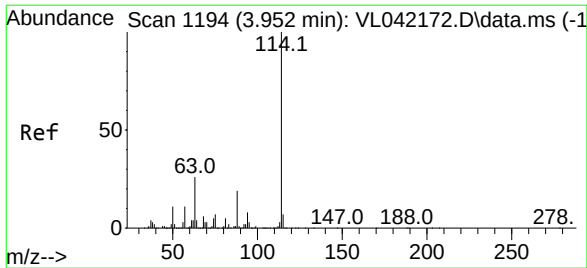
#32  
1,1,1-Trichloroethane  
Concen: 0.050 ppbv  
RT: 3.376 min Scan# 1016  
Delta R.T. 0.013 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57



Tgt Ion: 97 Resp: 2054  
Ion Ratio Lower Upper  
97 100  
99 74.8 51.5 77.3  
61 54.2 38.7 58.1

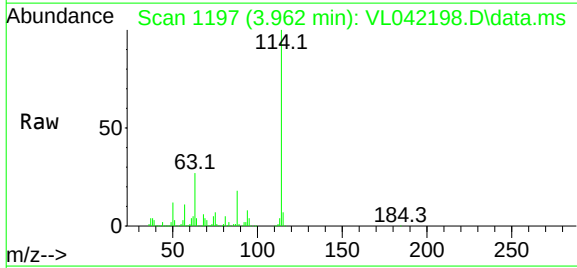






#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. 0.009 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

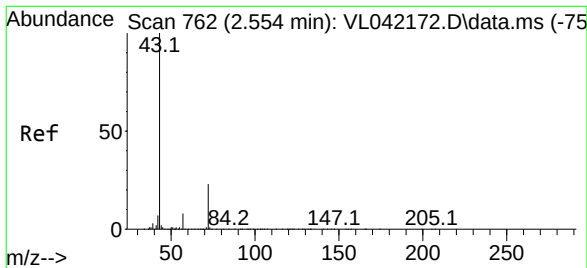
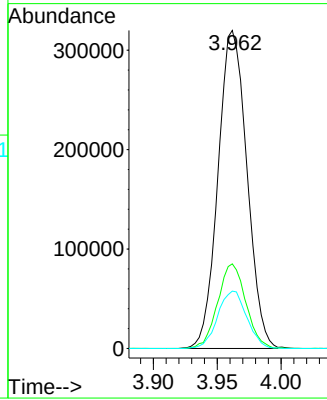
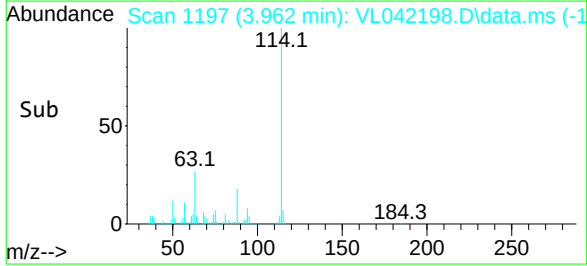
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025



Tgt Ion: 114 Resp: 504192  
Ion Ratio Lower Upper  
114 100  
63 25.9 20.7 31.1  
88 18.2 15.0 22.4

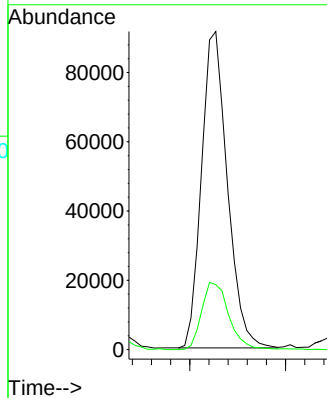
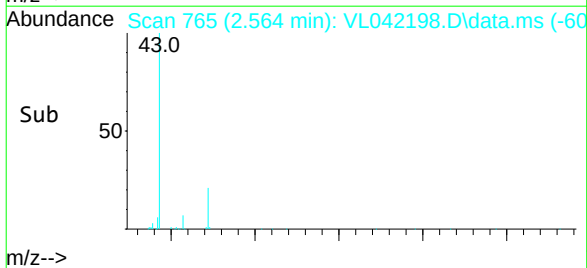
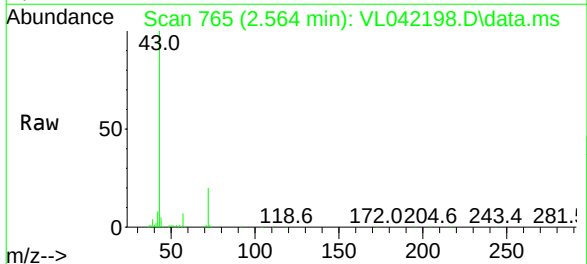
Manual Integrations  
APPROVED

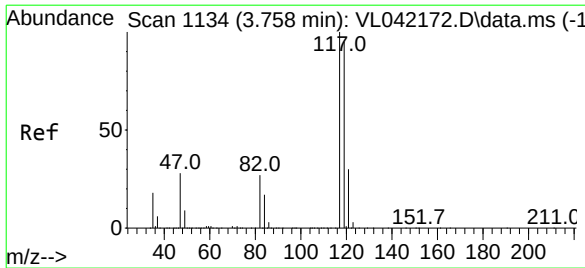
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#34  
2-Butanone  
Concen: 2.343 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.009 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

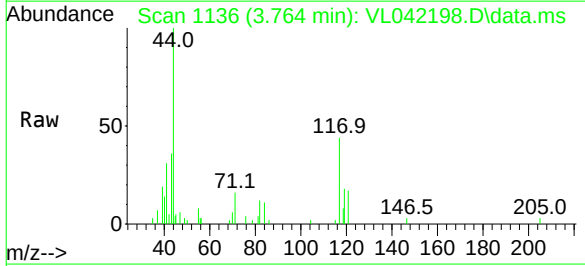
Tgt Ion: 43 Resp: 85672  
Ion Ratio Lower Upper  
43 100  
72 22.4 18.2 27.2





#35  
Carbon Tetrachloride  
Concen: 0.038 ppbv m  
RT: 3.764 min Scan# 1134  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

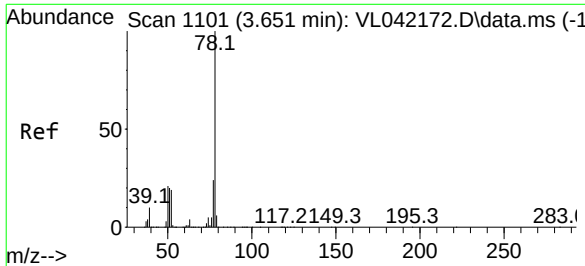
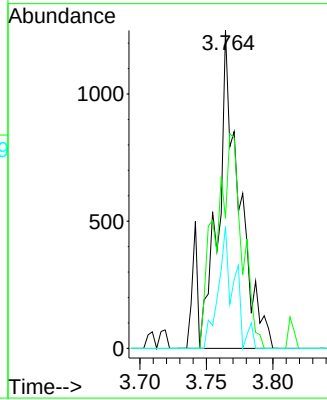
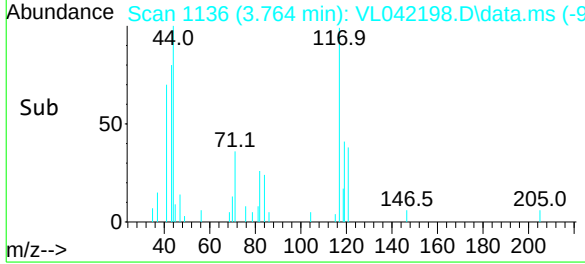
Instrument : MSVOA\_L  
ClientSampleId : SSSG-B16-1-3262025



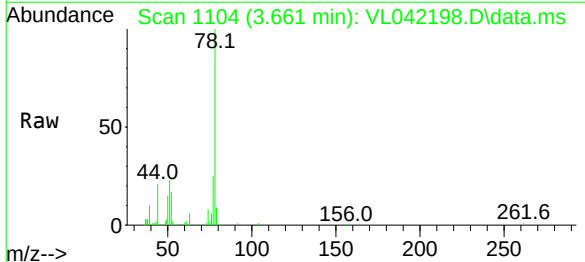
Tgt Ion: 117 Resp: 1493  
Ion Ratio Lower Upper  
117 100  
119 40.9 76.2 114.2#  
121 38.5 24.2 36.4#

Manual Integrations  
APPROVED

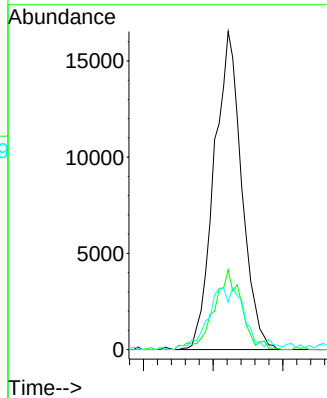
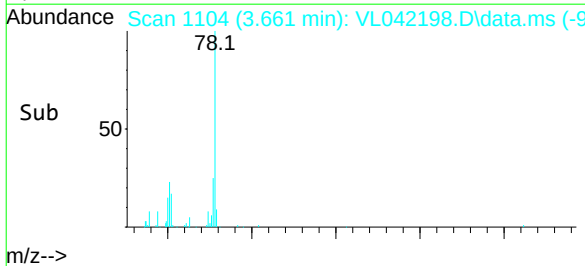
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

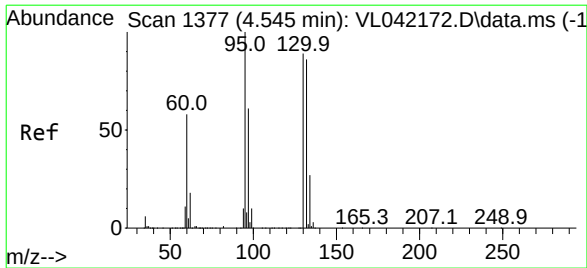


#36  
Benzene  
Concen: 0.454 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. 0.009 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57



Tgt Ion: 78 Resp: 22692  
Ion Ratio Lower Upper  
78 100  
77 24.7 19.1 28.7  
50 13.8 16.6 24.8#





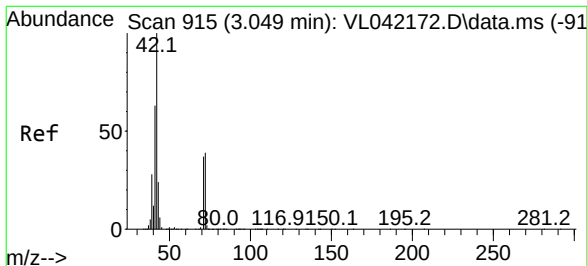
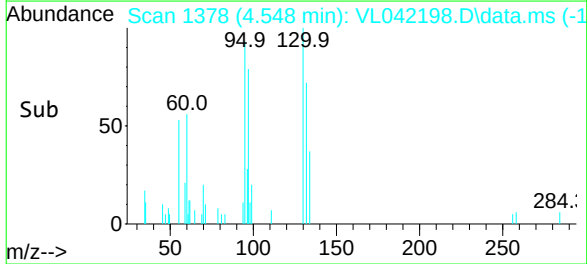
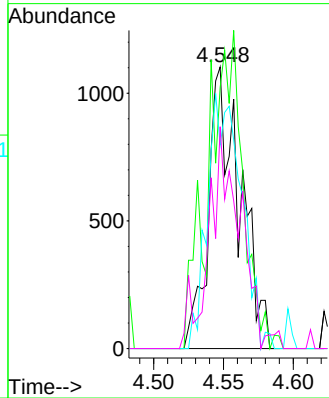
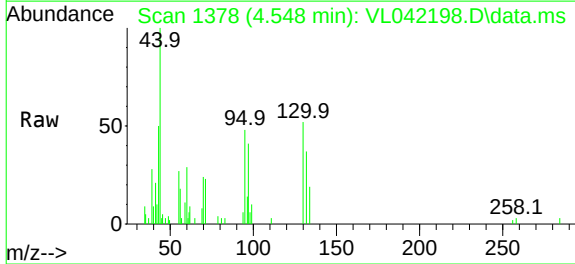
#38  
Trichloroethene  
Concen: 0.083 ppbv  
RT: 4.548 min Scan# 1377  
Delta R.T. 0.003 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Instrument : MSVOA\_L  
ClientSampleId : SSSG-B16-1-3262025

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 1734  |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 92.7  | 89.8  | 134.8 |
| 132      | 72.3  | 77.4  | 116.2 |
| 97       | 78.8  | 55.1  | 82.7  |

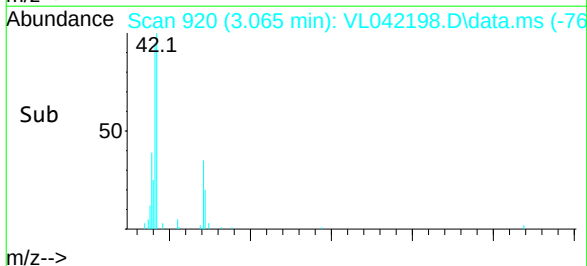
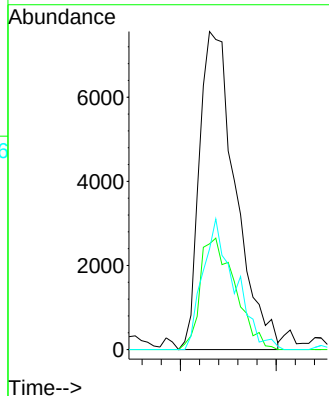
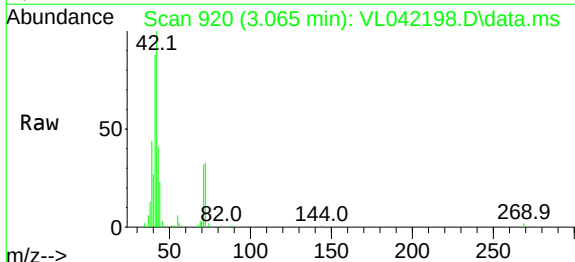
Manual Integrations  
APPROVED

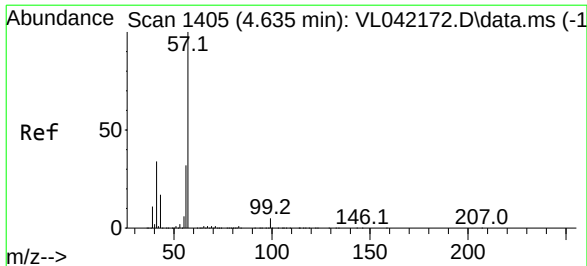
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#41  
Tetrahydrofuran  
Concen: 0.469 ppbv  
RT: 3.065 min Scan# 920  
Delta R.T. 0.016 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 9870  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 34.1  | 31.4  | 47.0  |
| 71       | 36.7  | 30.2  | 45.4  |





#44

2,2,4-Trimethylpentane

Concen: 0.238 ppbv

RT: 4.641 min Scan# 1405

Delta R.T. 0.006 min

Lab File: VL042198.D

Acq: 28 Mar 2025 01:57

Instrument :

MSVOA\_L

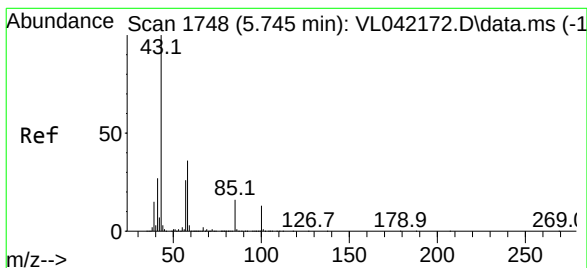
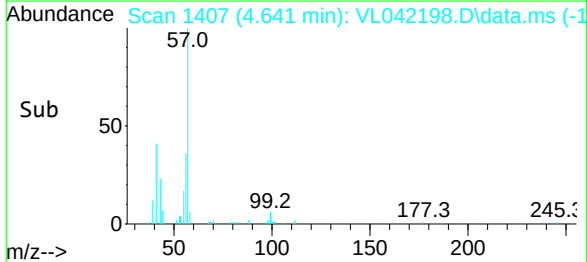
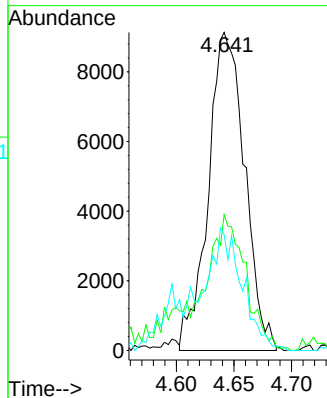
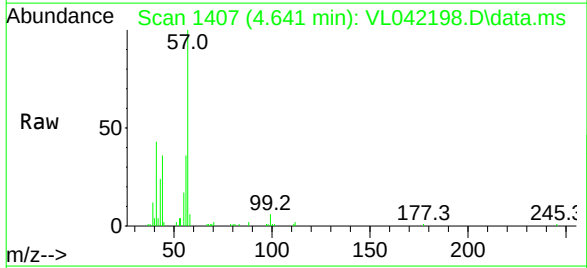
ClientSampleId :

SSSG-B16-1-3262025

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 57    | Resp: | 20106 |
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 56.1  | 26.8  | 40.2  |
| 56       | 51.3  | 25.6  | 38.4  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#50

4-Methyl-2-Pentanone

Concen: 1.568 ppbv

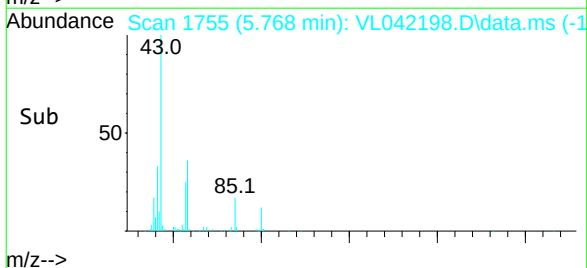
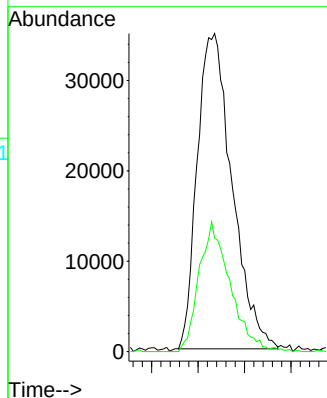
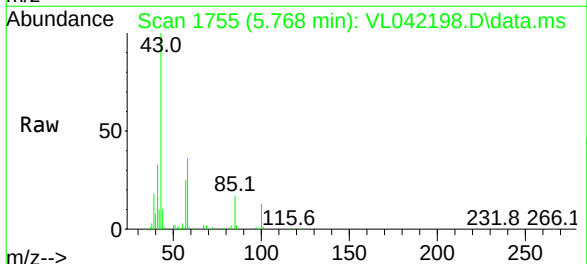
RT: 5.768 min Scan# 1755

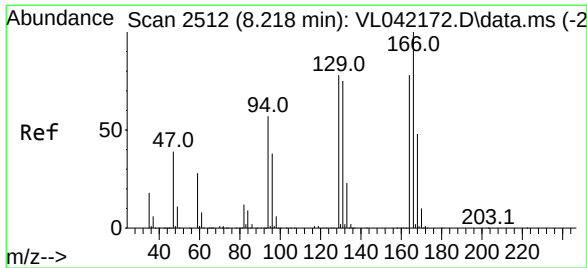
Delta R.T. 0.022 min

Lab File: VL042198.D

Acq: 28 Mar 2025 01:57

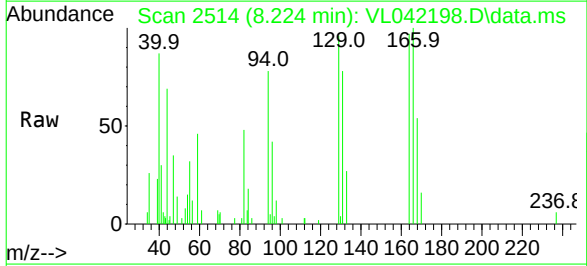
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 90838 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 36.8  | 29.0  | 43.6  |





#52  
Tetrachloroethene  
Concen: 0.147 ppbv  
RT: 8.224 min Scan# 2512  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

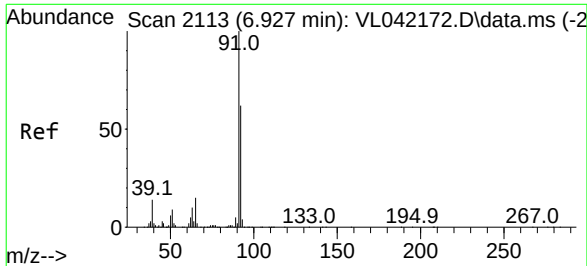
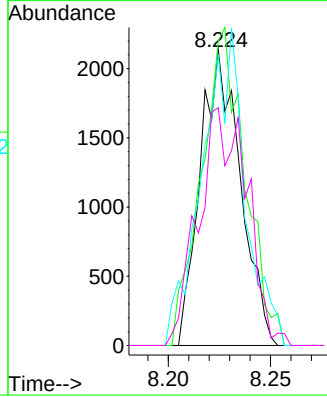
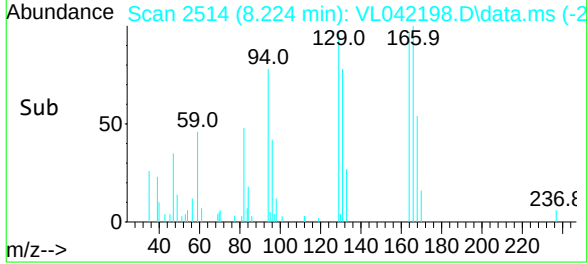
Instrument : MSVOA\_L  
ClientSampleId : SSSG-B16-1-3262025



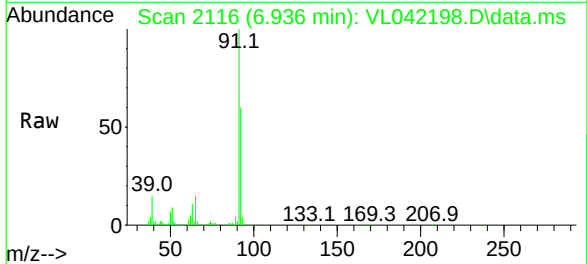
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 164     | 100   |       |        |
| 166     | 92.3  | 102.5 | 153.7# |
| 129     | 88.4  | 79.8  | 119.8  |
| 131     | 76.3  | 76.6  | 114.8# |

Manual Integrations  
APPROVED

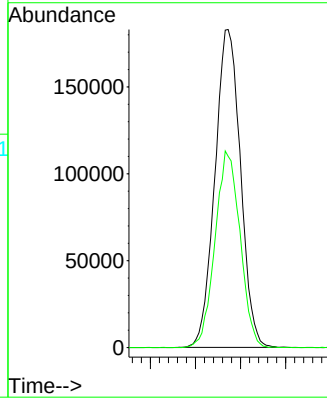
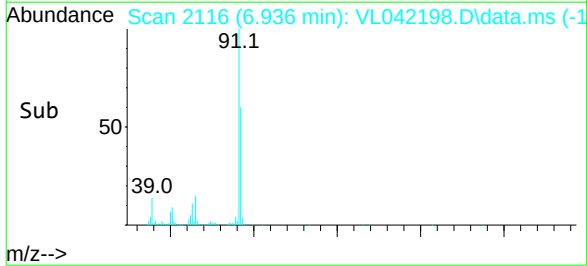
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

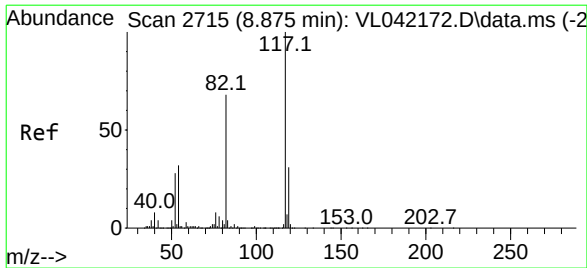


#53  
Toluene  
Concen: 6.079 ppbv  
RT: 6.936 min Scan# 2116  
Delta R.T. 0.009 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57



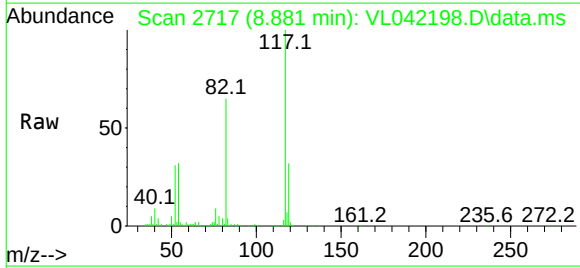
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 60.4  | 48.4  | 72.6  |





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.881 min Scan# 2715  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

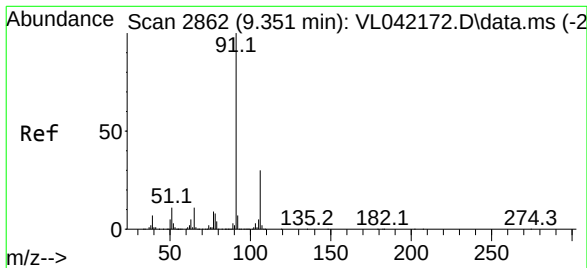
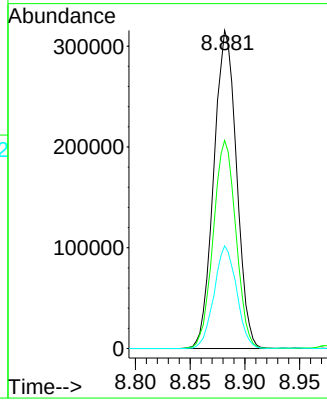
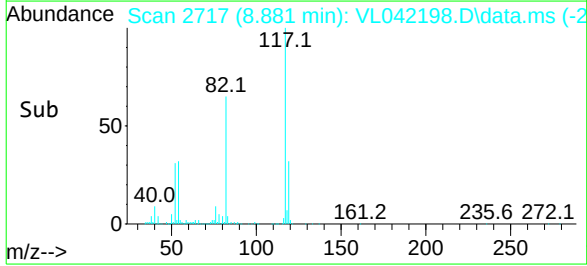
Instrument : MSVOA\_L  
ClientSampleId : SSSG-B16-1-3262025



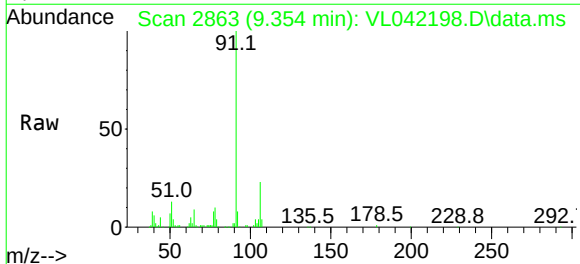
Tgt Ion: 117 Resp: 456695  
Ion Ratio Lower Upper  
117 100  
82 65.0 55.8 83.6  
119 31.9 25.5 38.3

Manual Integrations  
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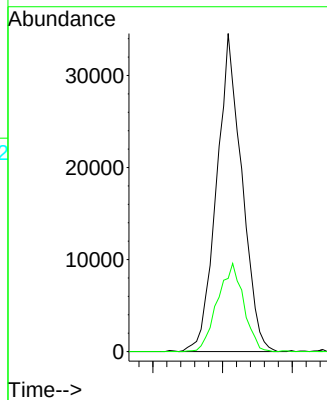
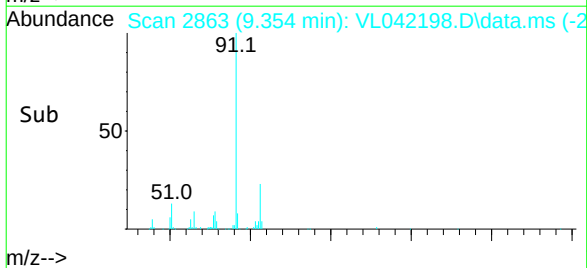
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

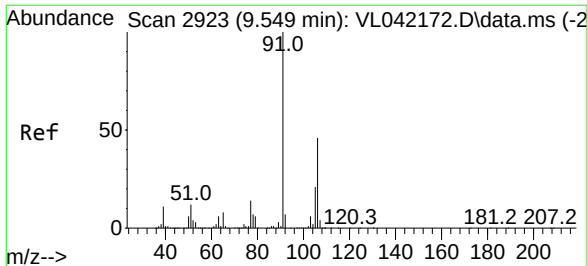


#58  
Ethyl Benzene  
Concen: 0.535 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. 0.003 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57



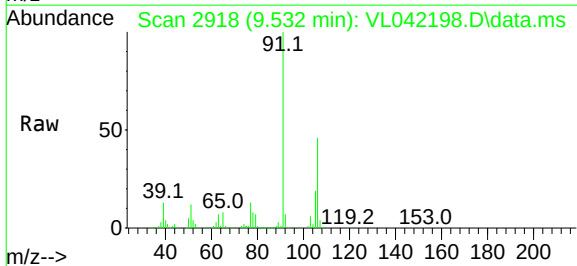
Tgt Ion: 91 Resp: 43413  
Ion Ratio Lower Upper  
91 100  
106 23.0 24.2 36.2





#59  
m/p-Xylene  
Concen: 1.969 ppbv  
RT: 9.532 min Scan# 2918  
Delta R.T. -0.016 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

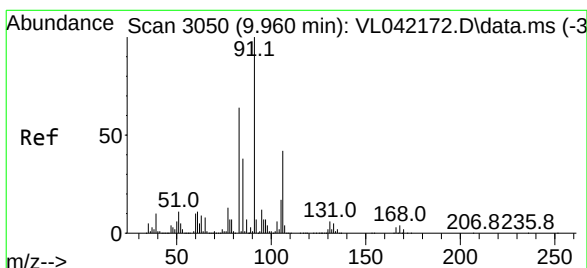
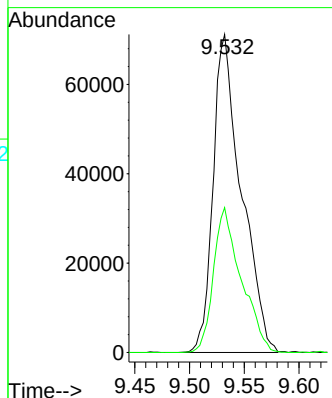
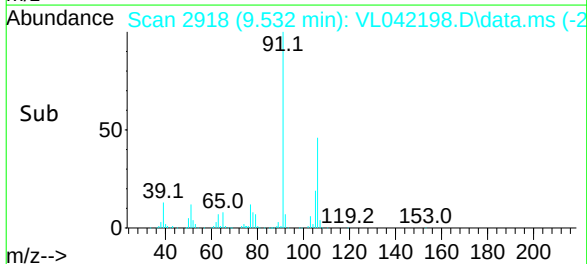
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025



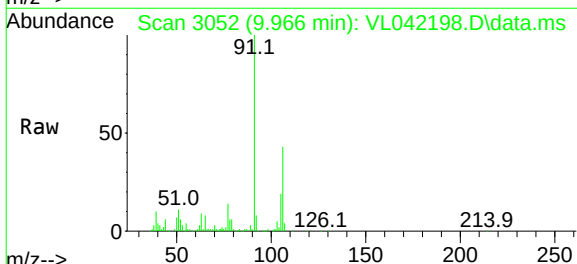
Tgt Ion: 91 Resp: 127535  
Ion Ratio Lower Upper  
91 100  
106 44.9 36.4 54.6

Manual Integrations  
APPROVED

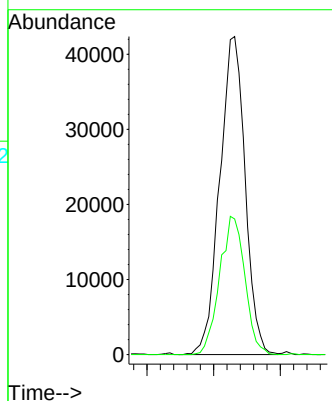
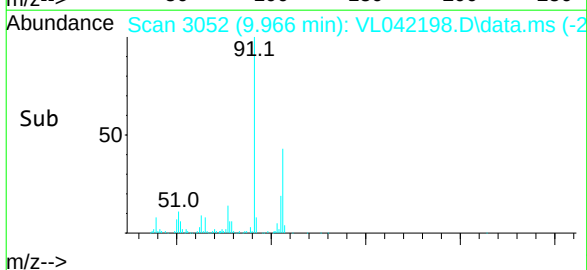
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

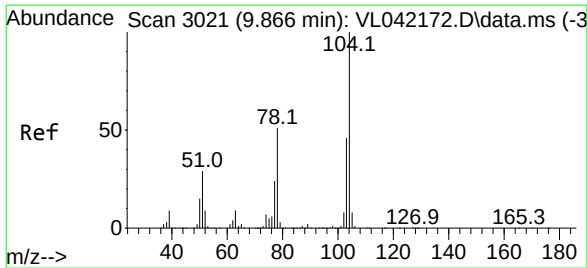


#60  
o-Xylene  
Concen: 0.863 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57



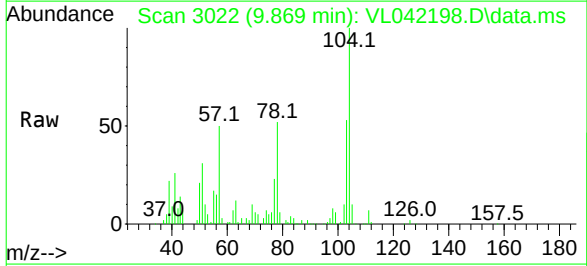
Tgt Ion: 91 Resp: 56023  
Ion Ratio Lower Upper  
91 100  
106 43.2 20.8 62.5





#61  
Styrene  
Concen: 0.779 ppbv  
RT: 9.869 min Scan# 3021  
Delta R.T. 0.003 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

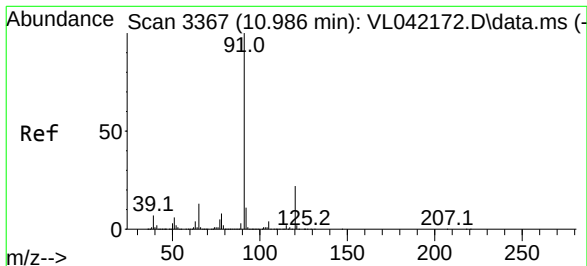
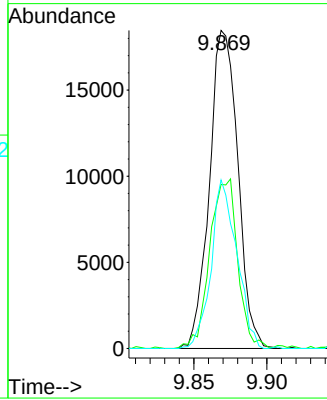
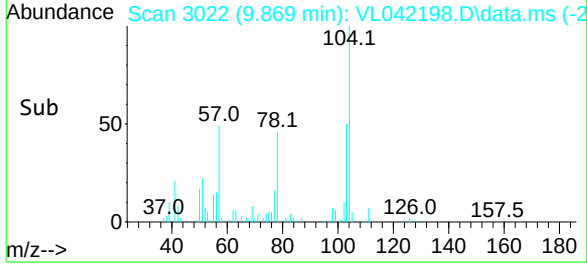
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025



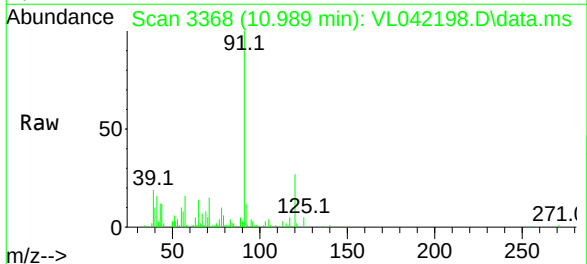
Tgt Ion:104 Resp: 25026  
Ion Ratio Lower Upper  
104 100  
78 52.8 41.8 62.6  
103 48.0 37.0 55.4

Manual Integrations  
APPROVED

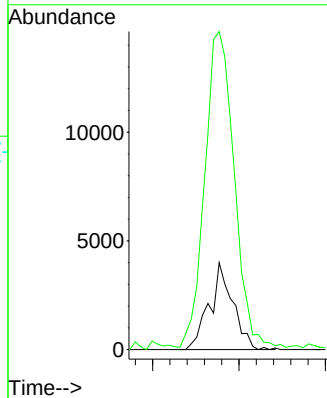
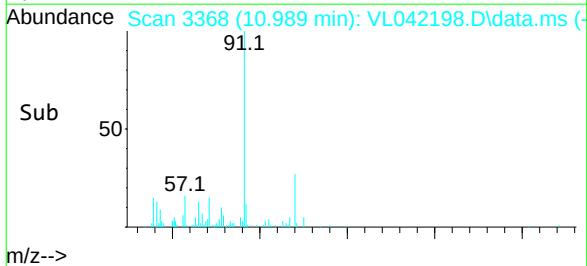
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



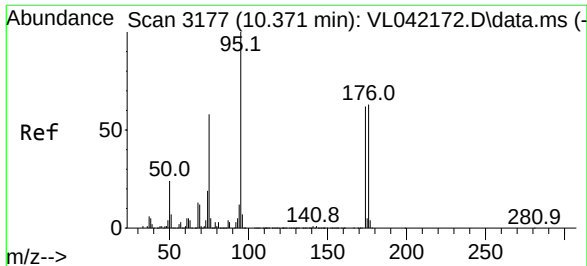
#64  
n-propylbenzene  
Concen: 0.151 ppbv m  
RT: 10.989 min Scan# 3368  
Delta R.T. 0.003 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57



Tgt Ion:120 Resp: 3769  
Ion Ratio Lower Upper  
120 100  
91 477.6 376.9 565.3

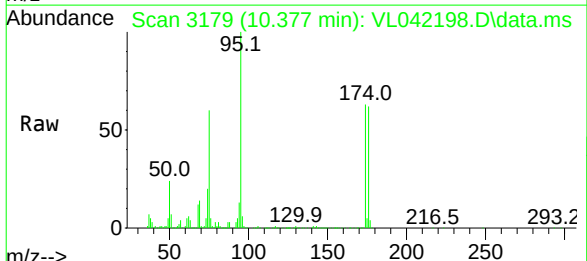






#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.997 ppbv  
RT: 10.377 min Scan# 3177  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

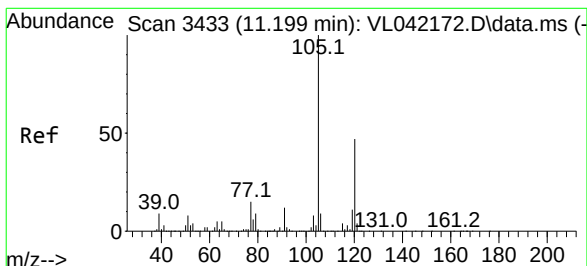
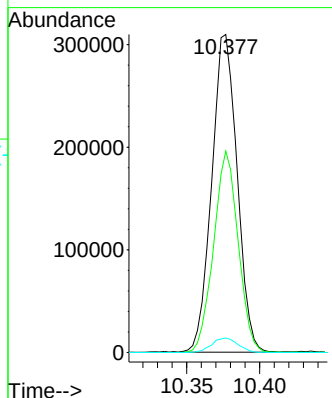
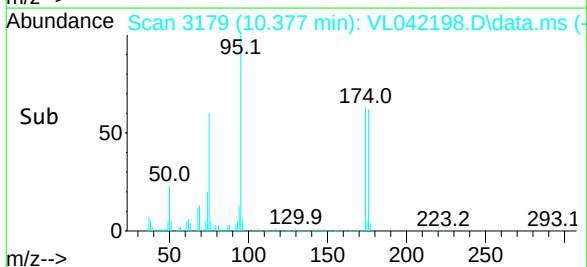
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025



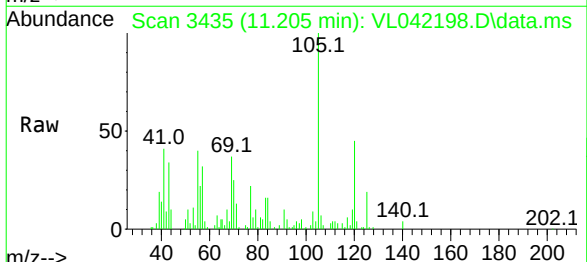
Tgt Ion: 95 Resp: 374920  
Ion Ratio Lower Upper  
95 100  
174 61.3 50.6 76.0  
175 4.7 3.8 5.6

Manual Integrations  
APPROVED

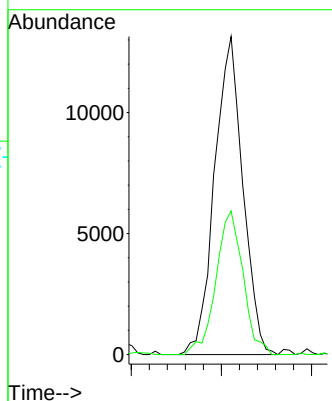
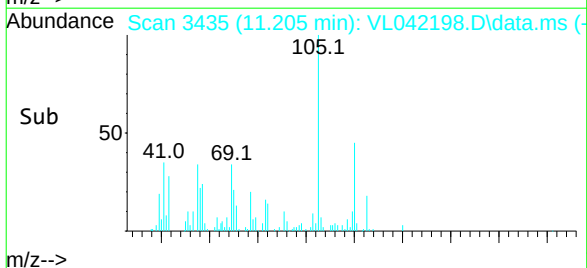
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

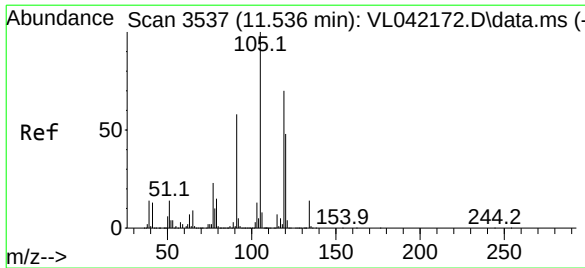


#73  
1,3,5-Trimethylbenzene  
Concen: 0.203 ppbv  
RT: 11.205 min Scan# 3435  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57



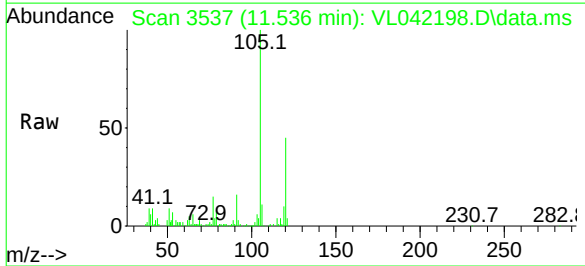
Tgt Ion:105 Resp: 14315  
Ion Ratio Lower Upper  
105 100  
120 45.1 37.4 56.0





#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.486 ppbv  
 RT: 11.536 min Scan# 3537  
 Delta R.T. -0.000 min  
 Lab File: VL042198.D  
 Acq: 28 Mar 2025 01:57

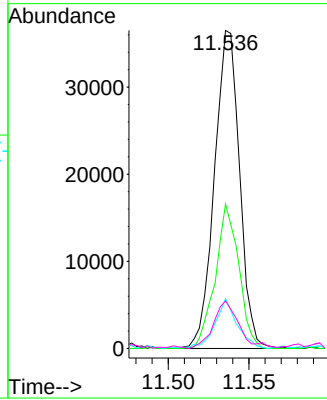
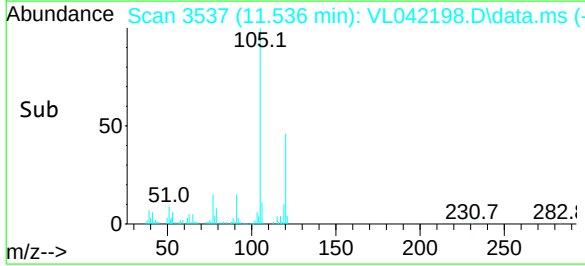
Instrument : MSVOA\_L  
 ClientSampleId : SSSG-B16-1-3262025



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 39507 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 45.4  | 38.6  | 58.0  |
| 91        | 15.4  | 46.2  | 69.2  |
| 77        | 14.6  | 18.6  | 27.8  |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042198.D  
Acq On : 28 Mar 2025 01:57  
Operator : SY/MD  
Sample : Q1669-07  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

Signal : TIC: VL042198.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.266       | 353           | 364         | 377          | rBV      | 86737          | 118205        | 5.83%           | 0.689%        |
| 2         | 1.431       | 413           | 415         | 417          | rBV      | 491523         | 691781        | 34.10%          | 4.034%        |
| 3         | 1.440       | 417           | 418         | 422          | rVB      | 3829715        | 1415554       | 69.78%          | 8.254%        |
| 4         | 1.557       | 449           | 454         | 460          | rBV      | 655064         | 377050        | 18.59%          | 2.199%        |
| 5         | 1.599       | 463           | 467         | 470          | rBV      | 291337         | 157978        | 7.79%           | 0.921%        |
| 6         | 1.618       | 470           | 473         | 478          | rVB      | 136817         | 82740         | 4.08%           | 0.482%        |
| 7         | 1.722       | 499           | 505         | 510          | rBV      | 521266         | 304401        | 15.01%          | 1.775%        |
| 8         | 1.835       | 536           | 540         | 549          | rBV      | 2094350        | 1433034       | 70.64%          | 8.356%        |
| 9         | 1.887       | 549           | 556         | 559          | rBV2     | 41298          | 40930         | 2.02%           | 0.239%        |
| 10        | 1.965       | 575           | 580         | 585          | rVB      | 91142          | 69665         | 3.43%           | 0.406%        |
| 11        | 2.042       | 599           | 604         | 607          | rBV2     | 49441          | 43259         | 2.13%           | 0.252%        |
| 12        | 2.065       | 607           | 611         | 614          | rVB2     | 88968          | 60799         | 3.00%           | 0.355%        |
| 13        | 2.382       | 708           | 709         | 715          | rVB      | 50749          | 41272         | 2.03%           | 0.241%        |
| 14        | 2.476       | 733           | 738         | 745          | rVB3     | 90689          | 89977         | 4.44%           | 0.525%        |
| 15        | 2.560       | 759           | 764         | 777          | rVV      | 142208         | 139338        | 6.87%           | 0.812%        |
| 16        | 2.628       | 777           | 785         | 793          | rVB4     | 53941          | 63008         | 3.11%           | 0.367%        |
| 17        | 2.790       | 827           | 835         | 842          | rBV      | 679161         | 696443        | 34.33%          | 4.061%        |
| 18        | 2.829       | 842           | 847         | 860          | rVB3     | 114249         | 139785        | 6.89%           | 0.815%        |
| 19        | 3.065       | 913           | 920         | 930          | rBV3     | 29608          | 38284         | 1.89%           | 0.223%        |
| 20        | 3.234       | 962           | 972         | 980          | rBV3     | 40437          | 59306         | 2.92%           | 0.346%        |
| 21        | 3.661       | 1091          | 1104        | 1110         | rBV3     | 39950          | 64369         | 3.17%           | 0.375%        |
| 22        | 3.696       | 1110          | 1115        | 1127         | rVB2     | 33824          | 53384         | 2.63%           | 0.311%        |
| 23        | 3.962       | 1185          | 1197        | 1212         | rBV      | 854224         | 1340536       | 66.08%          | 7.817%        |
| 24        | 4.059       | 1214          | 1227        | 1236         | rBV5     | 33869          | 65261         | 3.22%           | 0.381%        |
| 25        | 4.266       | 1279          | 1291        | 1303         | rBV5     | 40644          | 83504         | 4.12%           | 0.487%        |
| 26        | 4.641       | 1400          | 1407        | 1421         | rVB4     | 25428          | 55814         | 2.75%           | 0.325%        |
| 27        | 4.985       | 1501          | 1513        | 1525         | rBV7     | 22558          | 46681         | 2.30%           | 0.272%        |
| 28        | 5.667       | 1706          | 1724        | 1736         | rBV6     | 29841          | 75477         | 3.72%           | 0.440%        |
| 29        | 5.765       | 1740          | 1754        | 1775         | rBV4     | 102342         | 264083        | 13.02%          | 1.540%        |
| 30        | 6.742       | 2042          | 2056        | 2071         | rBV5     | 57384          | 133446        | 6.58%           | 0.778%        |
| 31        | 6.933       | 2100          | 2115        | 2135         | rVB      | 491647         | 988773        | 48.74%          | 5.766%        |
| 32        | 7.376       | 2242          | 2252        | 2259         | rBV5     | 21626          | 39401         | 1.94%           | 0.230%        |
| 33        | 7.609       | 2319          | 2324        | 2339         | rVB5     | 23708          | 53551         | 2.64%           | 0.312%        |
| 34        | 7.694       | 2339          | 2350        | 2360         | rVB7     | 34079          | 64929         | 3.20%           | 0.379%        |
| 35        | 8.302       | 2523          | 2538        | 2555         | rVB9     | 59814          | 137443        | 6.78%           | 0.801%        |
| 36        | 8.881       | 2704          | 2717        | 2728         | rBV      | 1115388        | 1657967       | 81.73%          | 9.668%        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042198.D  
Acq On : 28 Mar 2025 01:57  
Operator : SY/MD  
Sample : Q1669-07  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

|    |        |      |      |      |       |         |         |         |         |
|----|--------|------|------|------|-------|---------|---------|---------|---------|
| 37 | 8.982  | 2740 | 2748 | 2762 | rVB10 | 44997   | 90947   | 4.48%   | 0.530%  |
| 38 | 9.098  | 2776 | 2784 | 2791 | rBV5  | 27538   | 40374   | 1.99%   | 0.235%  |
| 39 | 9.147  | 2791 | 2799 | 2811 | rVB2  | 96817   | 144695  | 7.13%   | 0.844%  |
| 40 | 9.354  | 2852 | 2863 | 2868 | rBV2  | 82714   | 115145  | 5.68%   | 0.671%  |
| 41 | 9.390  | 2868 | 2874 | 2892 | rVB   | 112383  | 198198  | 9.77%   | 1.156%  |
| 42 | 9.532  | 2908 | 2918 | 2935 | rVB   | 206951  | 400972  | 19.77%  | 2.338%  |
| 43 | 9.636  | 2941 | 2950 | 2964 | rBV3  | 55516   | 94403   | 4.65%   | 0.550%  |
| 44 | 9.726  | 2966 | 2978 | 2989 | rVB6  | 45795   | 109182  | 5.38%   | 0.637%  |
| 45 | 9.794  | 2992 | 2999 | 3008 | rBV3  | 34575   | 48148   | 2.37%   | 0.281%  |
| 46 | 9.865  | 3008 | 3021 | 3032 | rBV6  | 107174  | 170168  | 8.39%   | 0.992%  |
| 47 | 9.966  | 3040 | 3052 | 3071 | rVB   | 130142  | 244162  | 12.04%  | 1.424%  |
| 48 | 10.079 | 3071 | 3087 | 3088 | rBV5  | 28183   | 49397   | 2.44%   | 0.288%  |
| 49 | 10.102 | 3088 | 3094 | 3101 | rVV5  | 39369   | 57736   | 2.85%   | 0.337%  |
| 50 | 10.147 | 3101 | 3108 | 3122 | rVV5  | 25390   | 47484   | 2.34%   | 0.277%  |
| 51 | 10.377 | 3156 | 3179 | 3189 | rBV   | 1508793 | 2028557 | 100.00% | 11.829% |
| 52 | 10.429 | 3189 | 3195 | 3204 | rVB4  | 44857   | 57333   | 2.83%   | 0.334%  |
| 53 | 10.775 | 3290 | 3302 | 3304 | rBV7  | 28447   | 45375   | 2.24%   | 0.265%  |
| 54 | 10.804 | 3304 | 3311 | 3321 | rVB4  | 57640   | 97149   | 4.79%   | 0.566%  |
| 55 | 10.901 | 3333 | 3341 | 3354 | rBV4  | 75095   | 107887  | 5.32%   | 0.629%  |
| 56 | 11.011 | 3369 | 3375 | 3383 | rVB2  | 77684   | 105860  | 5.22%   | 0.617%  |
| 57 | 11.095 | 3393 | 3401 | 3407 | rBV2  | 94687   | 112168  | 5.53%   | 0.654%  |
| 58 | 11.124 | 3407 | 3410 | 3423 | rVB2  | 50097   | 64444   | 3.18%   | 0.376%  |
| 59 | 11.202 | 3423 | 3434 | 3442 | rBV5  | 89156   | 122125  | 6.02%   | 0.712%  |
| 60 | 11.536 | 3527 | 3537 | 3552 | rBV2  | 112405  | 156140  | 7.70%   | 0.910%  |
| 61 | 11.756 | 3599 | 3605 | 3608 | rBV3  | 45956   | 56215   | 2.77%   | 0.328%  |
| 62 | 11.775 | 3608 | 3611 | 3618 | rVB2  | 51331   | 49026   | 2.42%   | 0.286%  |
| 63 | 12.083 | 3700 | 3706 | 3715 | rVB3  | 64812   | 76436   | 3.77%   | 0.446%  |
| 64 | 12.228 | 3743 | 3751 | 3758 | rBV2  | 146131  | 164495  | 8.11%   | 0.959%  |
| 65 | 12.364 | 3785 | 3793 | 3798 | rBV3  | 87152   | 101578  | 5.01%   | 0.592%  |
| 66 | 12.439 | 3811 | 3816 | 3821 | rBV   | 91782   | 88162   | 4.35%   | 0.514%  |
| 67 | 12.513 | 3829 | 3839 | 3844 | rBV   | 85804   | 95131   | 4.69%   | 0.555%  |
| 68 | 12.652 | 3875 | 3882 | 3894 | rBV4  | 57771   | 102223  | 5.04%   | 0.596%  |
| 69 | 13.002 | 3985 | 3990 | 4002 | rBV2  | 84240   | 89290   | 4.40%   | 0.521%  |
| 70 | 13.306 | 4076 | 4084 | 4085 | rBV4  | 39013   | 41299   | 2.04%   | 0.241%  |
| 71 | 13.387 | 4103 | 4109 | 4117 | rBV   | 35039   | 38078   | 1.88%   | 0.222%  |
| 72 | 13.474 | 4126 | 4136 | 4140 | rBV6  | 41198   | 57506   | 2.83%   | 0.335%  |
| 73 | 13.901 | 4258 | 4268 | 4274 | rBV3  | 109551  | 127117  | 6.27%   | 0.741%  |
| 74 | 13.989 | 4286 | 4295 | 4299 | rBV4  | 34570   | 42778   | 2.11%   | 0.249%  |
| 75 | 14.170 | 4344 | 4351 | 4358 | rVB3  | 51316   | 56528   | 2.79%   | 0.330%  |
| 76 | 14.238 | 4360 | 4372 | 4378 | rBV10 | 44142   | 68023   | 3.35%   | 0.397%  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042198.D  
Acq On : 28 Mar 2025 01:57  
Operator : SY/MD  
Sample : Q1669-07  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

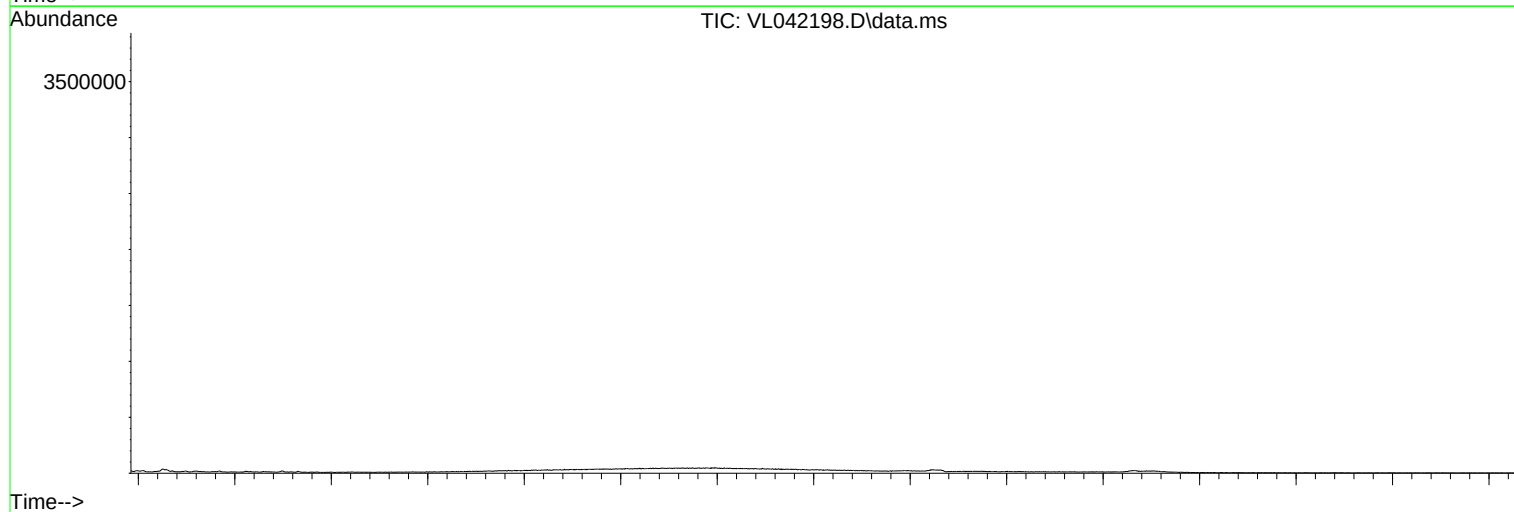
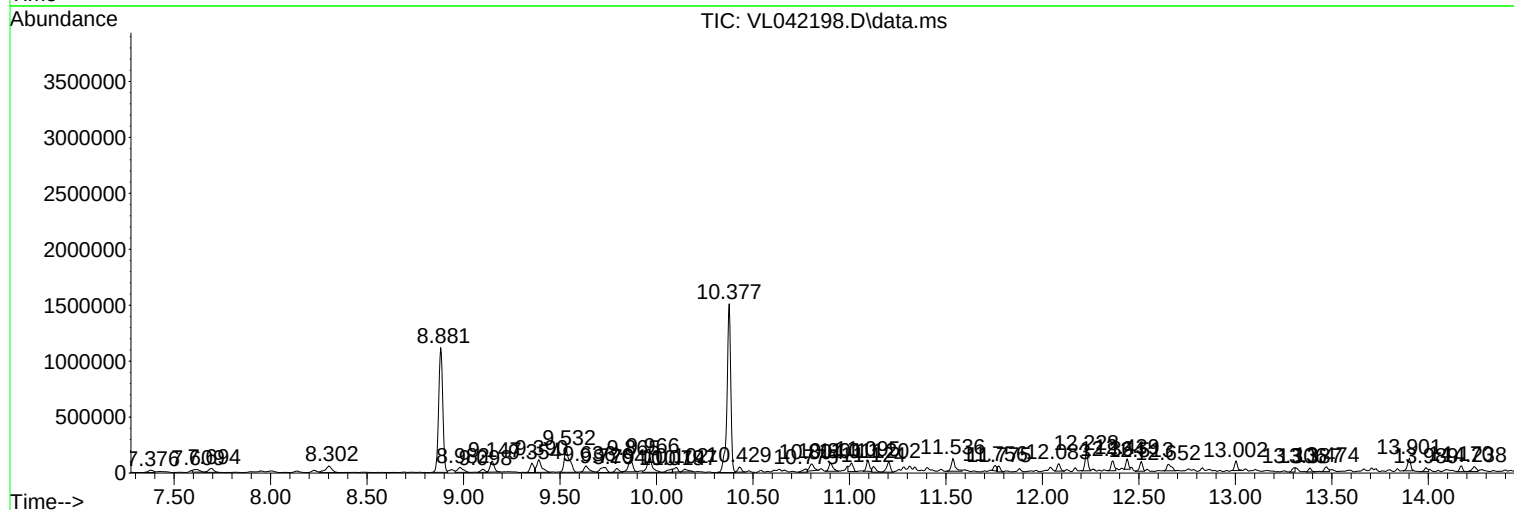
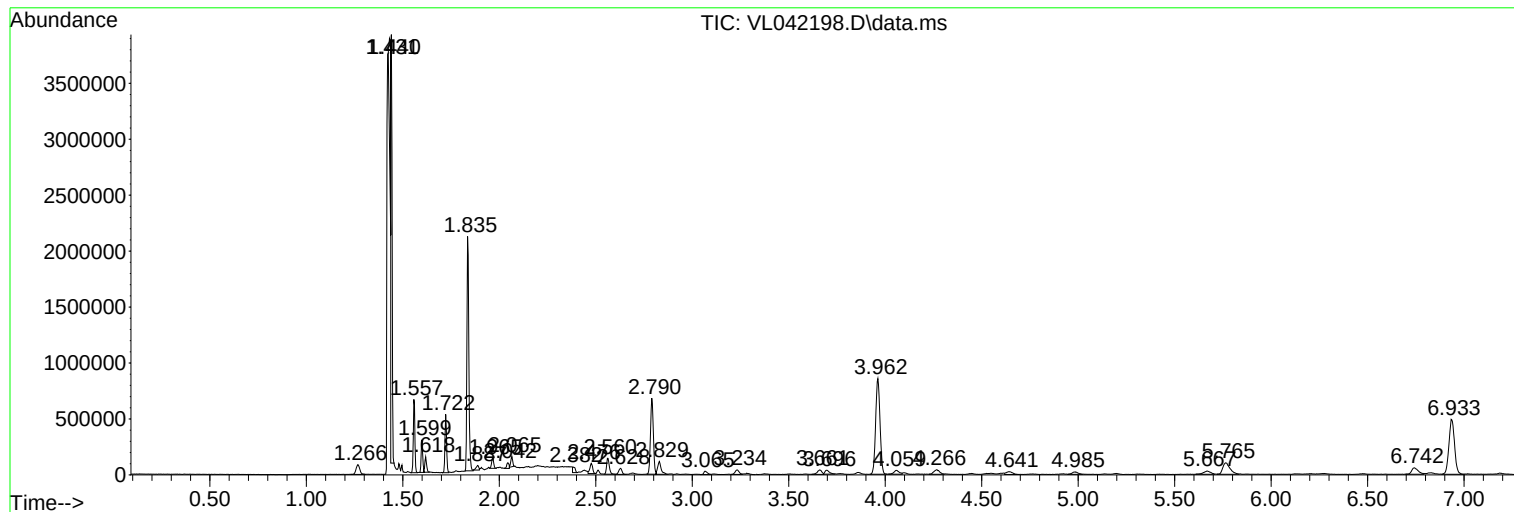
Sum of corrected areas: 17149362

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042198.D  
Acq On : 28 Mar 2025 01:57  
Operator : SY/MD  
Sample : Q1669-07  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042198.D  
Acq On : 28 Mar 2025 01:57  
Operator : SY/MD  
Sample : Q1669-07  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

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

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

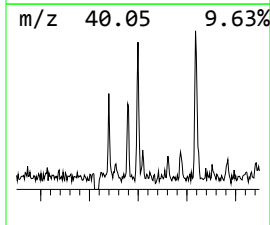
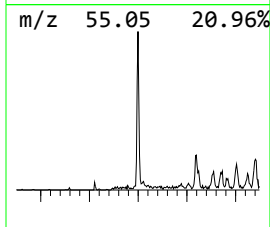
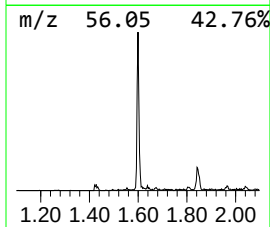
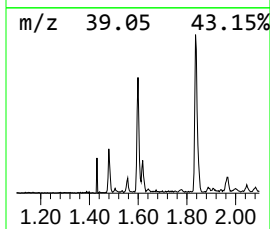
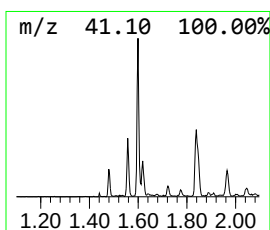
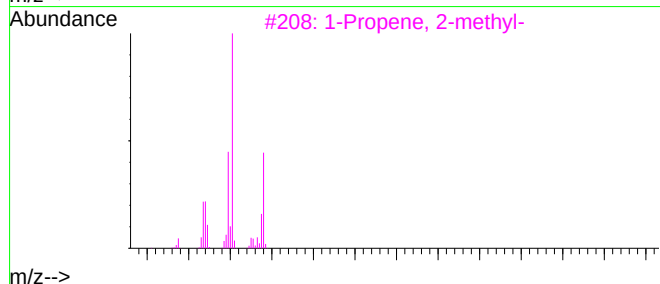
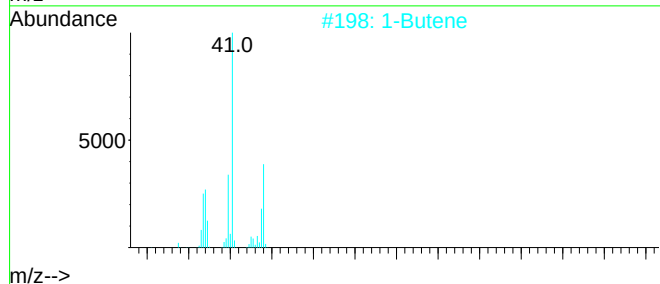
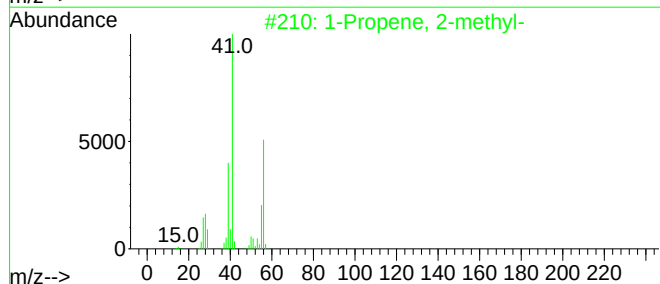
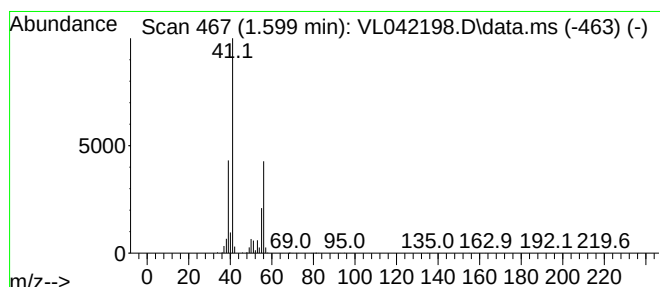
\*\*\*\*\*

Peak Number 2 1-Propene, 2-methyl- Concentration Rank 1

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 1.599 | 2.27 ppbv | 157978 | Bromochloromethane | 2.790 |

| Hit# of 5 | Tentative ID         | MW | MolForm | CAS#        | Qual |
|-----------|----------------------|----|---------|-------------|------|
| 1         | 1-Propene, 2-methyl- | 56 | C4H8    | 000115-11-7 | 87   |
| 2         | 1-Butene             | 56 | C4H8    | 000106-98-9 | 83   |
| 3         | 1-Propene, 2-methyl- | 56 | C4H8    | 000115-11-7 | 80   |
| 4         | 2-Butene, (Z)-       | 56 | C4H8    | 000590-18-1 | 80   |
| 5         | 2-Butene, (E)-       | 56 | C4H8    | 000624-64-6 | 80   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042198.D  
Acq On : 28 Mar 2025 01:57  
Operator : SY/MD  
Sample : Q1669-07  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

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

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

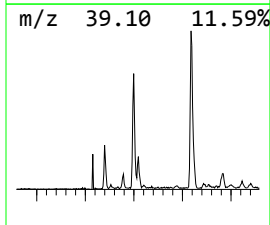
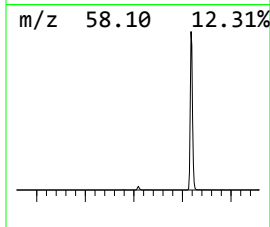
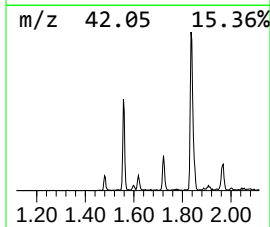
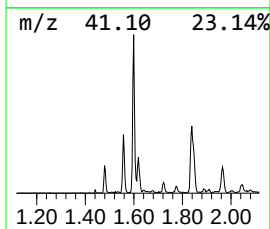
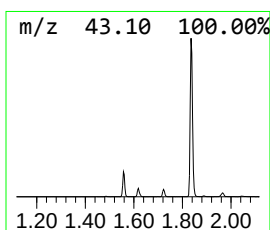
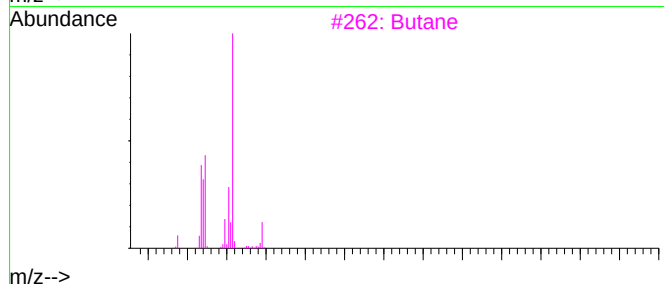
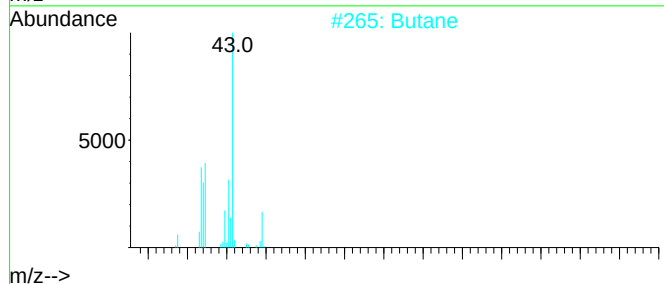
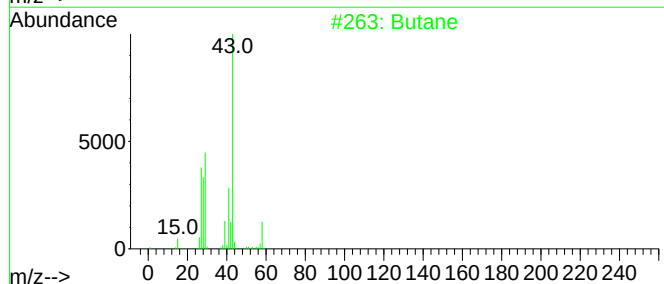
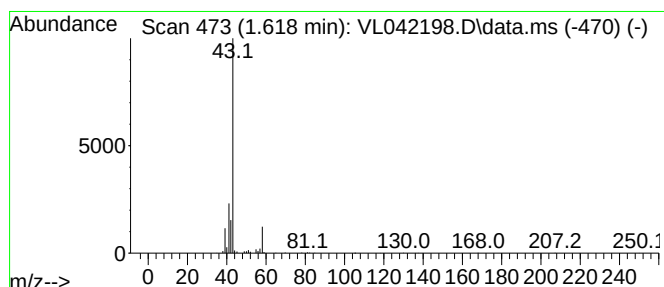
\*\*\*\*\*

Peak Number 3 Butane Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD   | R.T.  |
|-------|-----------|-------|--------------------|-------|
| 1.618 | 1.19 ppbv | 82740 | Bromochloromethane | 2.790 |

| Hit# of 5 | Tentative ID       | MW | MolForm | CAS#        | Qual |
|-----------|--------------------|----|---------|-------------|------|
| 1         | Butane             | 58 | C4H10   | 000106-97-8 | 64   |
| 2         | Butane             | 58 | C4H10   | 000106-97-8 | 50   |
| 3         | Butane             | 58 | C4H10   | 000106-97-8 | 50   |
| 4         | Butane             | 58 | C4H10   | 000106-97-8 | 45   |
| 5         | Diazene, dimethyl- | 58 | C2H6N2  | 000503-28-6 | 5    |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042198.D  
Acq On : 28 Mar 2025 01:57  
Operator : SY/MD  
Sample : Q1669-07  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

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

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

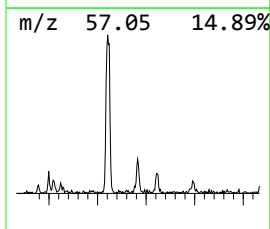
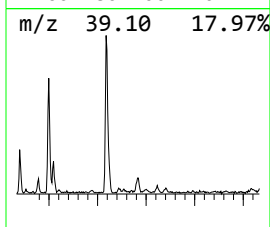
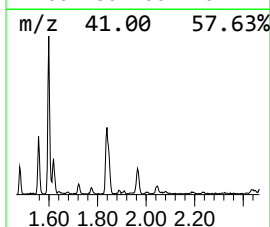
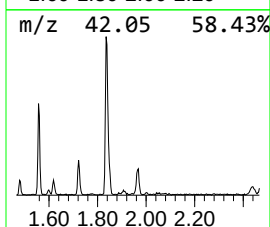
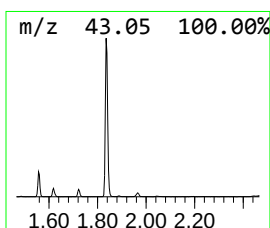
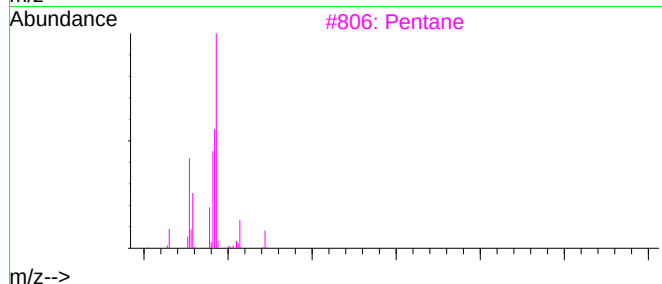
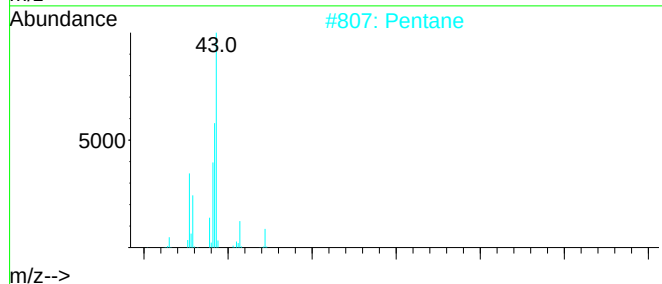
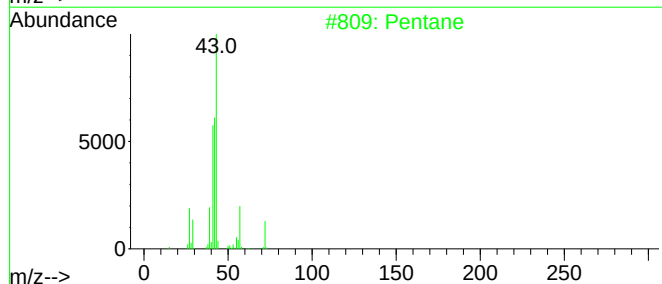
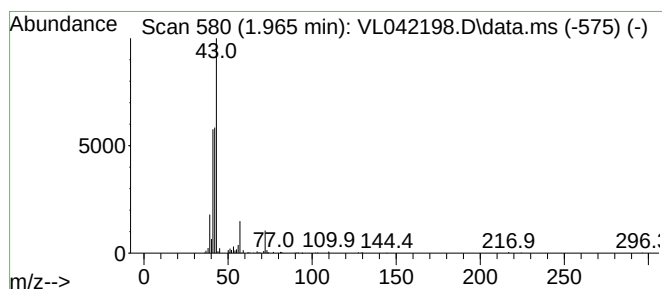
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Peak Number 4 Pentane Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD   | R.T.  |
|-------|-----------|-------|--------------------|-------|
| 1.965 | 1.00 ppbv | 69665 | Bromochloromethane | 2.790 |

| Hit# of 5 | Tentative ID        | MW | MolForm | CAS#        | Qual |
|-----------|---------------------|----|---------|-------------|------|
| 1         | Pentane             | 72 | C5H12   | 000109-66-0 | 86   |
| 2         | Pentane             | 72 | C5H12   | 000109-66-0 | 72   |
| 3         | Pentane             | 72 | C5H12   | 000109-66-0 | 72   |
| 4         | Pentane             | 72 | C5H12   | 000109-66-0 | 72   |
| 5         | Isobutylene epoxide | 72 | C4H8O   | 000558-30-5 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042198.D  
Acq On : 28 Mar 2025 01:57  
Operator : SY/MD  
Sample : Q1669-07  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

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

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

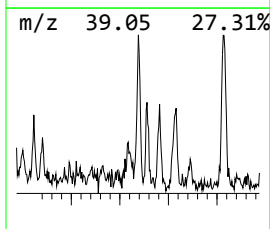
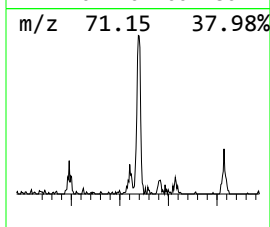
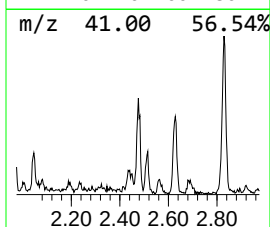
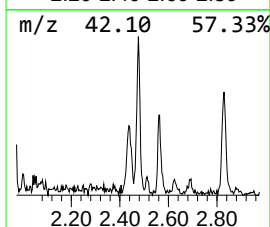
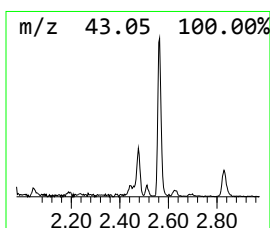
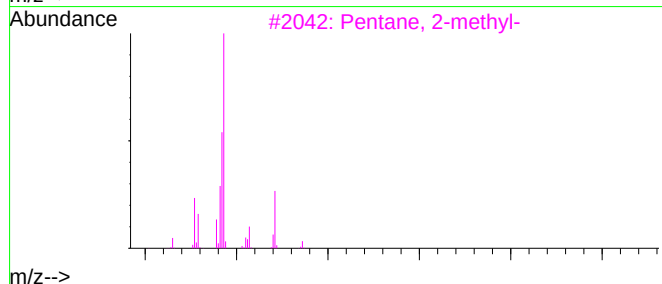
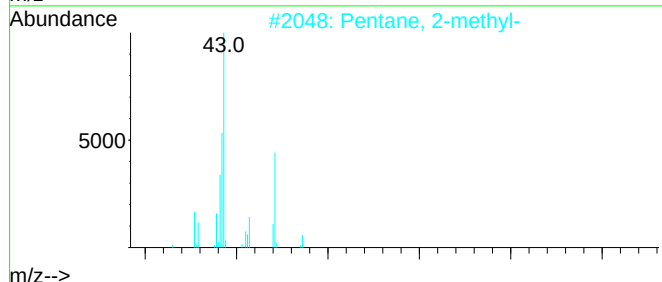
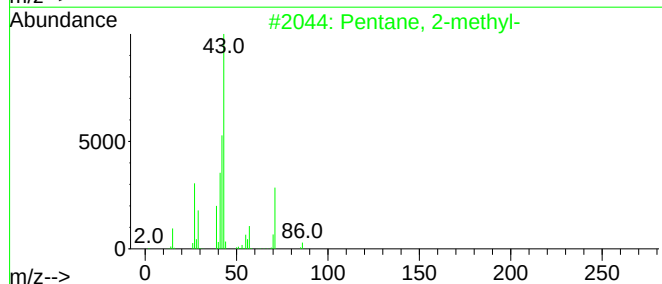
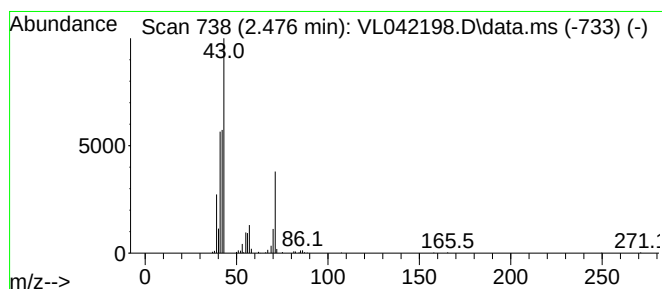
\*\*\*\*\*

Peak Number 5 Pentane, 2-methyl- Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD   | R.T.  |
|-------|-----------|-------|--------------------|-------|
| 2.476 | 1.29 ppbv | 89977 | Bromochloromethane | 2.790 |

| Hit# of 5 | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|-----------|--------------------|-----|---------|-------------|------|
| 1         | Pentane, 2-methyl- | 86  | C6H14   | 000107-83-5 | 78   |
| 2         | Pentane, 2-methyl- | 86  | C6H14   | 000107-83-5 | 78   |
| 3         | Pentane, 2-methyl- | 86  | C6H14   | 000107-83-5 | 72   |
| 4         | Pentane, 2-methyl- | 86  | C6H14   | 000107-83-5 | 56   |
| 5         | Pentane, 2-bromo-  | 150 | C5H11Br | 000107-81-3 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042198.D  
Acq On : 28 Mar 2025 01:57  
Operator : SY/MD  
Sample : Q1669-07  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

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

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

| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|--------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                    |       |         |       |          | #                     | RT    | Resp   | Conc |
| 1-Propene, 2-me... | 1.599 | 2.3     | ppbv  | 157978   | 1                     | 2.790 | 696443 | 10.0 |
| Butane             | 1.618 | 1.2     | ppbv  | 82740    | 1                     | 2.790 | 696443 | 10.0 |
| Pentane            | 1.965 | 1.0     | ppbv  | 69665    | 1                     | 2.790 | 696443 | 10.0 |
| Pentane, 2-methyl- | 2.476 | 1.3     | ppbv  | 89977    | 1                     | 2.790 | 696443 | 10.0 |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-B16-1-3262025DL                            | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-07DL                                      | 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 |
| VL042192.D        | 10        |           | 03/27/25 22:29 | VL032725      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |      |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 2.10          | 10.4           | UD        | 10.4 | 24.7       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.98          | 2.02           | UD        | 2.02 | 10.3       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 0.14          | 0.36           | UD        | 0.36 | 0.77       | ug/m3 |
| 74-83-9        | Bromomethane                   | 1.40          | 5.44           | UD        | 5.44 | 19.4       | ug/m3 |
| 75-00-3        | Chloroethane                   | 1.70          | 4.49           | UD        | 4.49 | 13.2       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 1.30          | 3.83           | UD        | 3.83 | 14.8       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 1.60          | 8.99           | UD        | 8.99 | 28.1       | ug/m3 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 1.60          | 12.3           | UD        | 12.3 | 38.3       | ug/m3 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.88          | 6.15           | UD        | 6.15 | 35.0       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 1.90          | 5.76           | UD        | 5.76 | 15.2       | ug/m3 |
| 142-82-5       | Heptane                        | 1.10          | 4.51           | UD        | 4.51 | 20.5       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 1.40          | 5.55           | UD        | 5.55 | 19.8       | ug/m3 |
| 67-64-1        | Acetone                        | 38.3          | 91.0           | D         | 5.70 | 11.9       | ug/m3 |
| 75-15-0        | Carbon Disulfide               | 1.60          | 4.98           | UD        | 4.98 | 15.6       | ug/m3 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 1.20          | 4.33           | UD        | 4.33 | 18.0       | ug/m3 |
| 75-09-2        | Methylene Chloride             | 2.40          | 8.34           | JD        | 6.60 | 17.4       | ug/m3 |
| 156-60-5       | trans-1,2-Dichloroethene       | 1.90          | 7.53           | UD        | 7.53 | 19.8       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 1.30          | 5.26           | UD        | 5.26 | 20.2       | ug/m3 |
| 110-82-7       | Cyclohexane                    | 2.20          | 7.57           | UD        | 7.57 | 17.2       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 2.40          | 7.08           | JD        | 3.54 | 14.8       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 0.11          | 0.69           | UD        | 0.69 | 1.89       | ug/m3 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.89          | 3.53           | UD        | 3.53 | 19.8       | ug/m3 |
| 67-66-3        | Chloroform                     | 0.83          | 4.05           | UD        | 4.05 | 24.4       | ug/m3 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.10          | 0.55           | UD        | 0.55 | 1.64       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 1.00          | 4.67           | UD        | 4.67 | 23.4       | ug/m3 |
| 71-43-2        | Benzene                        | 0.87          | 2.78           | UD        | 2.78 | 16.0       | ug/m3 |
| 107-06-2       | 1,2-Dichloroethane             | 0.91          | 3.68           | UD        | 3.68 | 20.2       | ug/m3 |
| 79-01-6        | Trichloroethene                | 0.17          | 0.91           | UD        | 0.91 | 1.61       | ug/m3 |
| 78-87-5        | 1,2-Dichloropropane            | 1.10          | 5.08           | UD        | 5.08 | 23.1       | ug/m3 |
| 75-27-4        | Bromodichloromethane           | 0.77          | 5.16           | UD        | 5.16 | 33.5       | ug/m3 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 1.70          | 6.97           | JD        | 3.81 | 20.5       | ug/m3 |
| 108-88-3       | Toluene                        | 5.70          | 21.5           | D         | 4.15 | 18.8       | ug/m3 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.60          | 2.72           | UD        | 2.72 | 22.7       | ug/m3 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 0.64          | 2.91           | UD        | 2.91 | 22.7       | ug/m3 |
| 79-00-5        | 1,1,2-Trichloroethane          | 0.71          | 3.87           | UD        | 3.87 | 27.3       | ug/m3 |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-B16-1-3262025DL                            | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-07DL                                      | 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 |
| VL042192.D        | 10        |           | 03/27/25 22:29 | VL032725      |

| CAS Number                | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|---------------------------|---------------|----------------|-----------|---------------------|------------|---------|
| 124-48-1                  | Dibromochloromethane      | 0.66          | 5.62           | UD        | 5.62                | 42.6       | ug/m3   |
| 106-93-4                  | 1,2-Dibromoethane         | 0.72          | 5.53           | UD        | 5.53                | 7.69       | ug/m3   |
| 127-18-4                  | Tetrachloroethene         | 0.15          | 1.02           | UD        | 1.02                | 2.03       | ug/m3   |
| 108-90-7                  | Chlorobenzene             | 0.76          | 3.50           | UD        | 3.50                | 23.0       | ug/m3   |
| 100-41-4                  | Ethyl Benzene             | 1.20          | 5.21           | UD        | 5.21                | 21.7       | ug/m3   |
| 179601-23-1               | m/p-Xylene                | 2.10          | 9.12           | UD        | 9.12                | 43.4       | ug/m3   |
| 95-47-6                   | o-Xylene                  | 1.20          | 5.21           | UD        | 5.21                | 21.7       | ug/m3   |
| 100-42-5                  | Styrene                   | 1.10          | 4.68           | UD        | 4.68                | 21.3       | ug/m3   |
| 75-25-2                   | Bromoform                 | 0.57          | 5.89           | UD        | 5.89                | 51.7       | ug/m3   |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane | 0.11          | 0.76           | UD        | 0.76                | 2.06       | ug/m3   |
| 95-49-8                   | 2-Chlorotoluene           | 1.10          | 5.70           | UD        | 5.70                | 25.9       | ug/m3   |
| 108-67-8                  | 1,3,5-Trimethylbenzene    | 1.10          | 5.41           | UD        | 5.41                | 24.6       | ug/m3   |
| 95-63-6                   | 1,2,4-Trimethylbenzene    | 0.78          | 3.83           | UD        | 3.83                | 24.6       | ug/m3   |
| 541-73-1                  | 1,3-Dichlorobenzene       | 0.80          | 4.81           | UD        | 4.81                | 30.1       | ug/m3   |
| 106-46-7                  | 1,4-Dichlorobenzene       | 0.53          | 3.19           | UD        | 3.19                | 30.1       | ug/m3   |
| 95-50-1                   | 1,2-Dichlorobenzene       | 0.75          | 4.51           | UD        | 4.51                | 30.1       | ug/m3   |
| 120-82-1                  | 1,2,4-Trichlorobenzene    | 0.85          | 6.31           | UD        | 6.31                | 37.1       | ug/m3   |
| 87-68-3                   | Hexachloro-1,3-Butadiene  | 0.85          | 9.07           | UD        | 9.07                | 53.3       | ug/m3   |
| 106-99-0                  | 1,3-Butadiene             | 1.30          | 2.88           | UD        | 2.88                | 11.1       | ug/m3   |
| 91-20-3                   | Naphthalene               | 0.75          | 3.93           | UD        | 3.93                | 5.24       | ug/m3   |
| 622-96-8                  | 4-Ethyltoluene            | 1.20          | 5.90           | UD        | 5.90                | 24.6       | ug/m3   |
| 110-54-3                  | Hexane                    | 1.10          | 3.88           | UD        | 3.88                | 17.6       | ug/m3   |
| 107-05-1                  | Allyl Chloride            | 1.50          | 4.70           | UD        | 4.70                | 15.7       | ug/m3   |
| 123-91-1                  | 1,4-Dioxane               | 2.10          | 7.57           | UD        | 7.57                | 18.0       | ug/m3   |
| 80-62-6                   | Methyl Methacrylate       | 0.86          | 3.52           | UD        | 3.52                | 20.5       | ug/m3   |
| <b>SURROGATES</b>         |                           |               |                |           |                     |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene   | 9.90          |                |           | 70 (65) - 130 (135) | 99%        | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                           |               |                |           |                     |            |         |
| 74-97-5                   | Bromochloromethane        | 183000        |                | 2.787     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene       | 517000        |                | 3.959     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5          | 472000        |                | 8.882     |                     |            |         |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-B16-1-3262025DL                            | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-07DL                                      | 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 |
| VL042192.D        | 10        |           | 03/27/25 22:29 | VL032725      |

| 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\VL032725\  
 Data File : VL042192.D  
 Acq On : 27 Mar 2025 22:29  
 Operator : SY/MD  
 Sample : Q1669-07DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-B16-1-3262025DL

Quant Time: Mar 28 02:18:46 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 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.787  | 49    | 182834   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.959  | 114   | 517445   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.882  | 117   | 472334   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 383930   | 9.898    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 99.000%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 13) Ethanol                 | 1.722  | 45    | 18353    | 15.359   | ppbv # | 27       |
| 15) Acetone                 | 1.835  | 43    | 97895    | 3.828    | ppbv   | 95       |
| 20) Methylene Chloride      | 2.062  | 84    | 2299     | 0.241    | ppbv # | 79       |
| 34) 2-Butanone              | 2.564  | 43    | 9065     | 0.242    | ppbv   | 97       |
| 50) 4-Methyl-2-Pentanone    | 5.774  | 43    | 10001m   | 0.168    | ppbv   |          |
| 53) Toluene                 | 6.933  | 91    | 34361    | 0.565    | ppbv   | 100      |
| 59) m/p-Xylene              | 9.532  | 91    | 11656m   | 0.174    | ppbv   |          |
| -----                       |        |       |          |          |        |          |

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

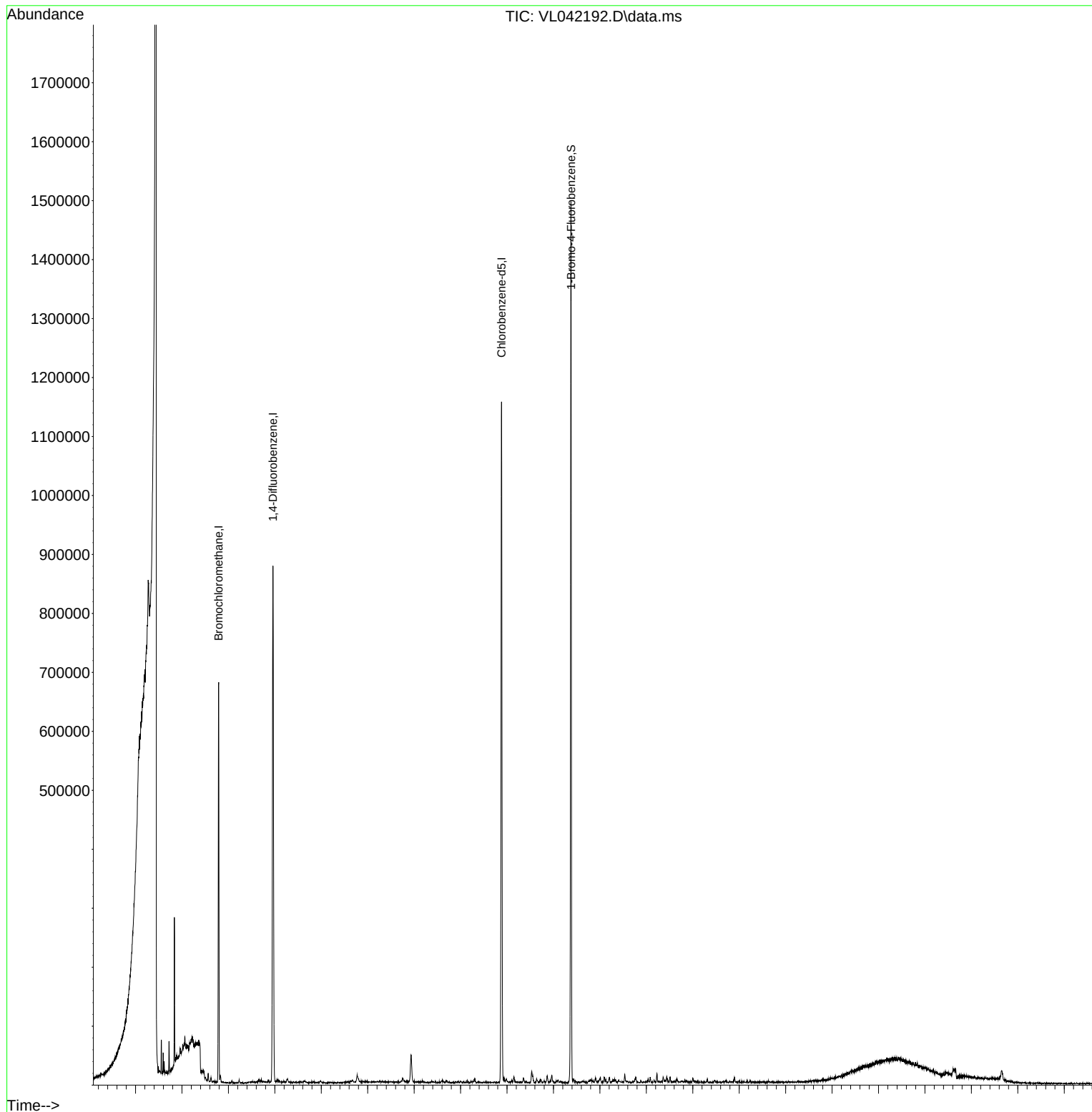
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042192.D  
Acq On : 27 Mar 2025 22:29  
Operator : SY/MD  
Sample : Q1669-07DL 10X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025DL

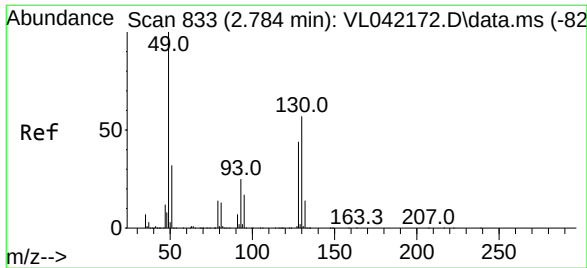
Quant Time: Mar 28 02:18:46 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration

Manual Integrations  
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Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025







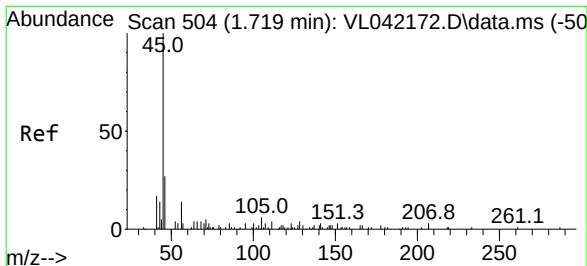
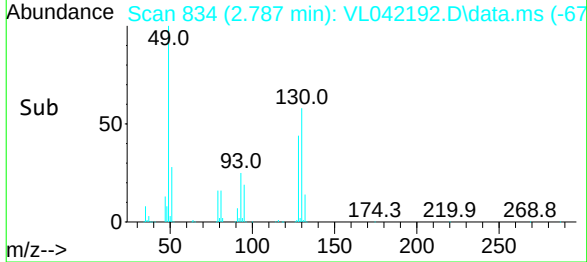
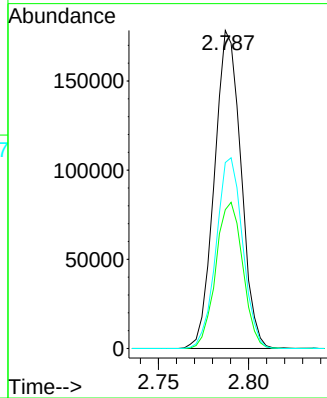
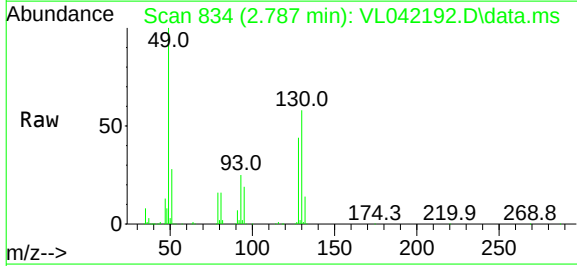
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 83  
Delta R.T. 0.003 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025DL

Tgt Ion: 49 Resp: 182834  
Ion Ratio Lower Upper  
49 100  
128 46.7 22.9 68.5  
130 59.8 28.8 86.4

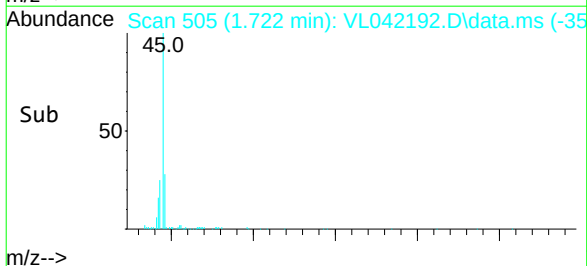
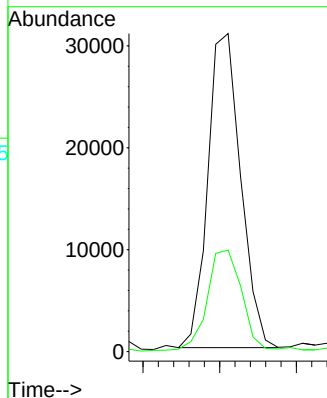
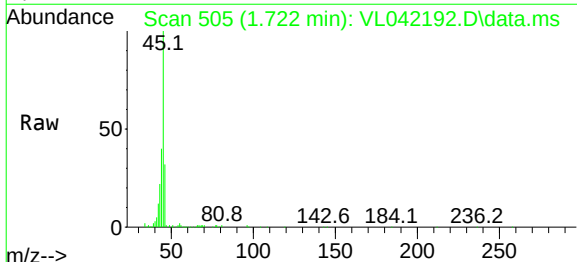
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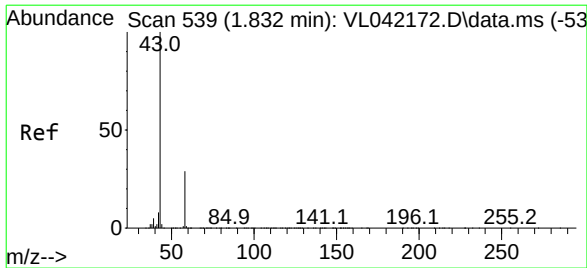
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#13  
Ethanol  
Concen: 15.359 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.003 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

Tgt Ion: 45 Resp: 18353  
Ion Ratio Lower Upper  
45 100  
46 0.0 20.2 80.8#





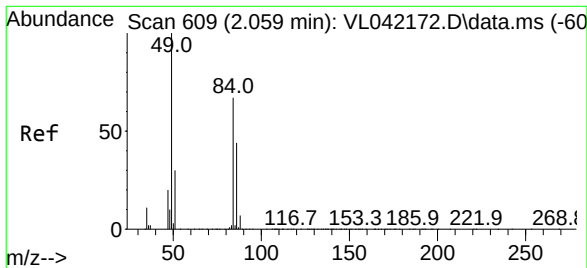
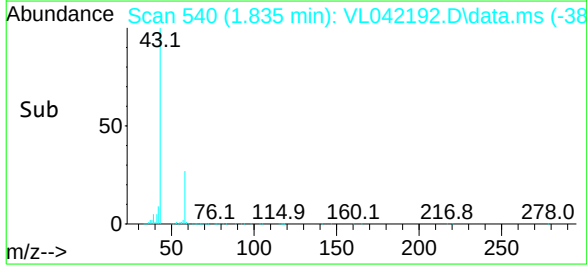
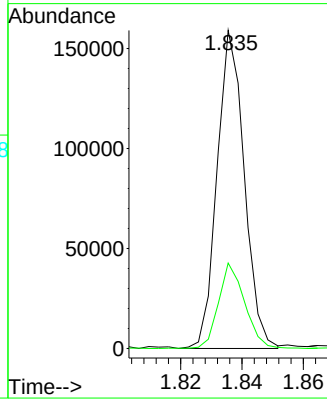
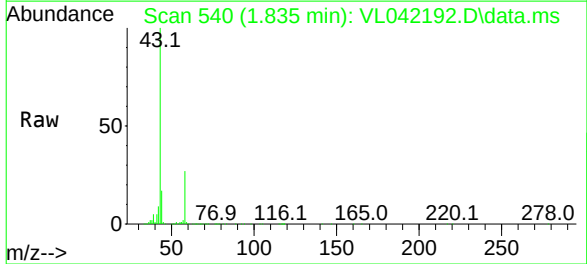
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Acetone  
Concen: 3.828 ppbv  
RT: 1.835 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025DL

Tgt Ion: 43 Resp: 97895  
Ion Ratio Lower Upper  
43 100  
58 26.4 23.2 34.8

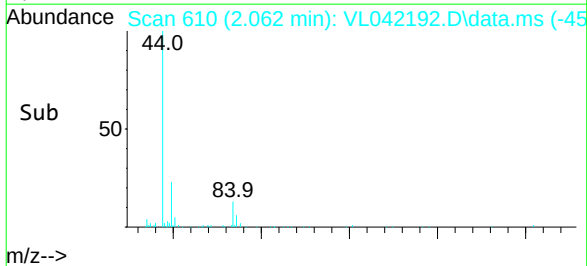
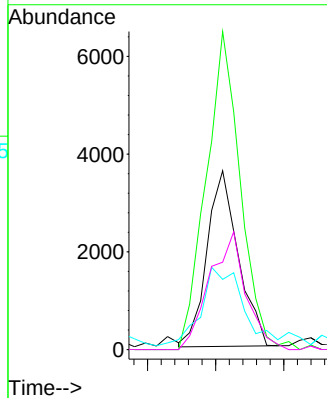
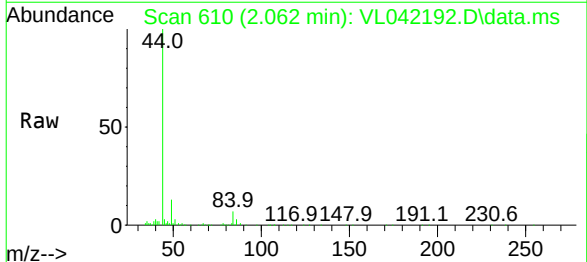
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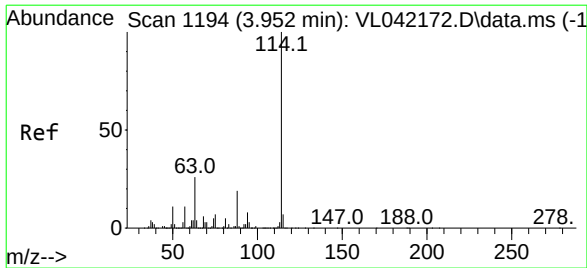
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#20  
Methylene Chloride  
Concen: 0.241 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

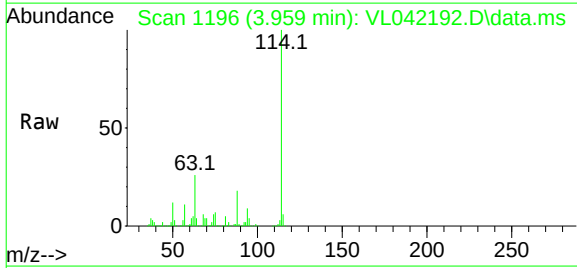
Tgt Ion: 84 Resp: 2299  
Ion Ratio Lower Upper  
84 100  
49 179.1 120.2 180.4  
51 34.5 37.4 56.0#  
86 49.9 52.4 78.6#





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. 0.006 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

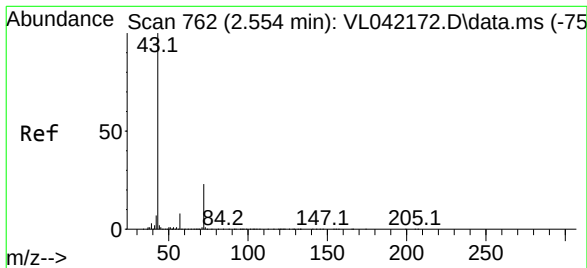
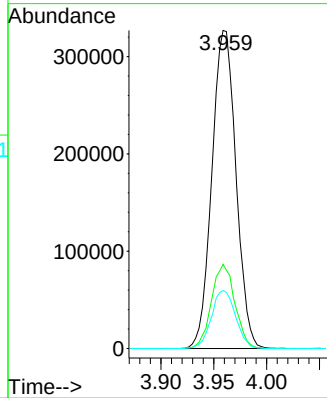
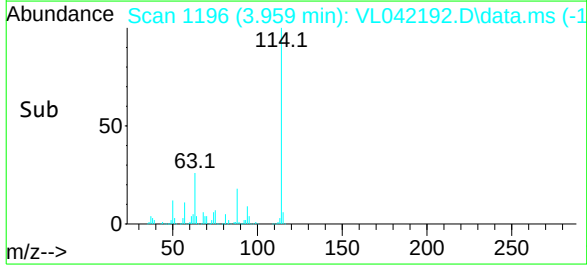
Instrument : MSVOA\_L  
ClientSampleId : SSSG-B16-1-3262025DL



Tgt Ion: 114 Resp: 517445  
Ion Ratio Lower Upper  
114 100  
63 25.8 20.7 31.1  
88 18.3 15.0 22.4

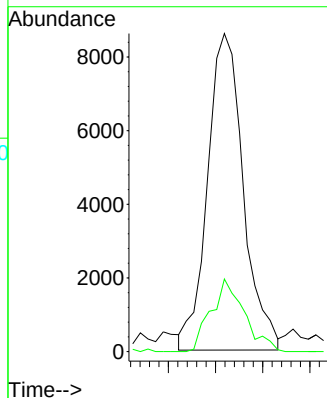
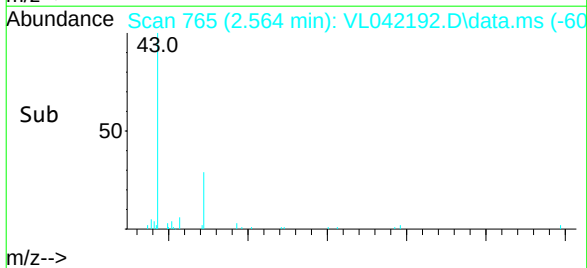
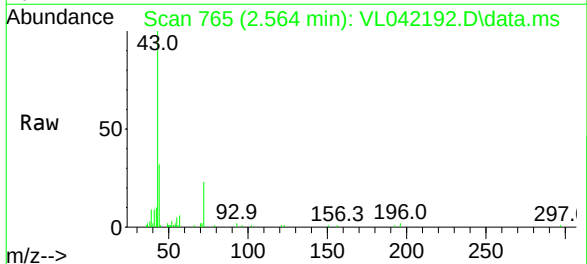
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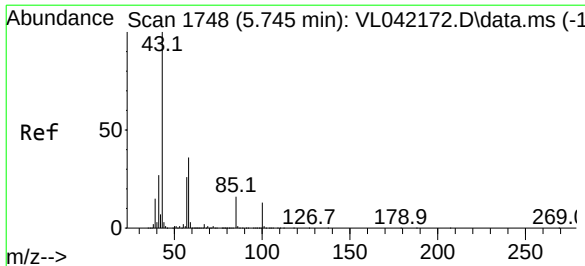
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#34  
2-Butanone  
Concen: 0.242 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.010 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

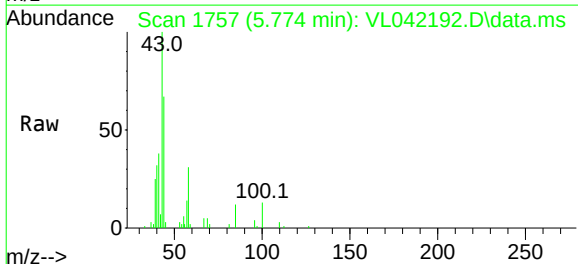
Tgt Ion: 43 Resp: 9065  
Ion Ratio Lower Upper  
43 100  
72 21.4 18.2 27.2





#50  
4-Methyl-2-Pentanone  
Concen: 0.168 ppbv m  
RT: 5.774 min Scan# 17  
Delta R.T. 0.029 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

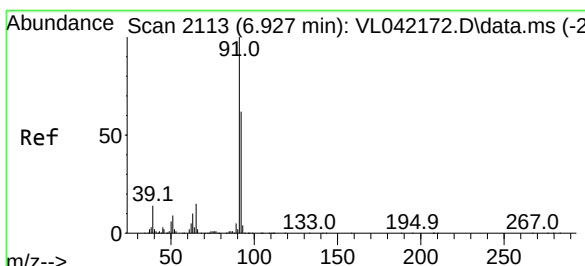
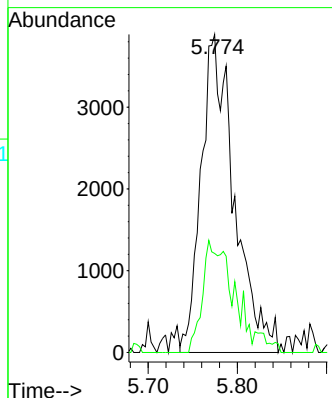
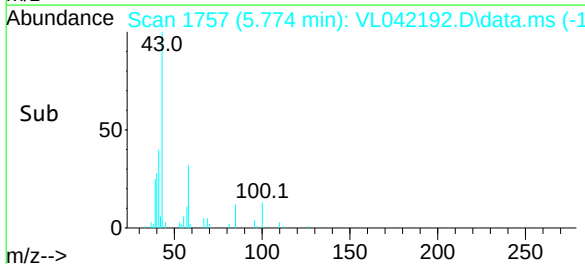
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025DL



Tgt Ion: 43 Resp: 10001  
Ion Ratio Lower Upper  
43 100  
58 34.6 29.0 43.6

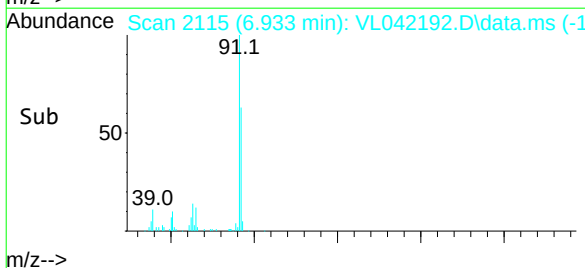
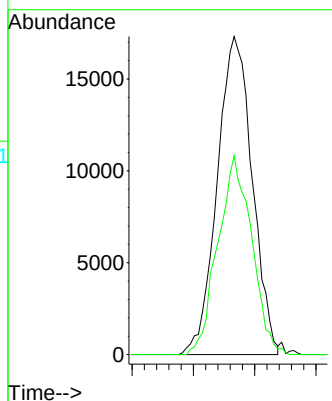
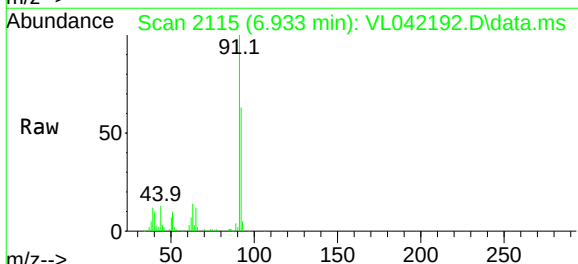
Manual Integrations  
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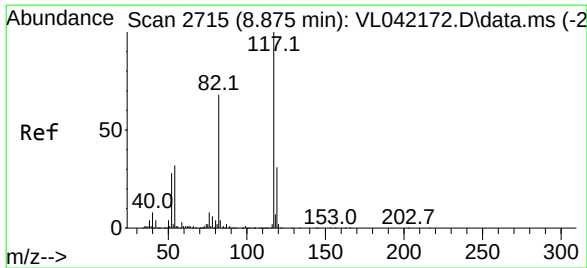
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#53  
Toluene  
Concen: 0.565 ppbv  
RT: 6.933 min Scan# 2115  
Delta R.T. 0.006 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

Tgt Ion: 91 Resp: 34361  
Ion Ratio Lower Upper  
91 100  
92 60.3 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2715

Delta R.T. 0.006 min

Lab File: VL042192.D

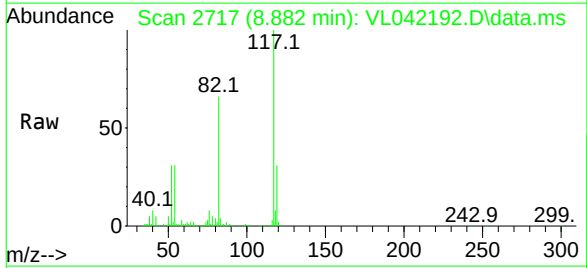
Acq: 27 Mar 2025 22:29

Instrument :

MSVOA\_L

ClientSampleId :

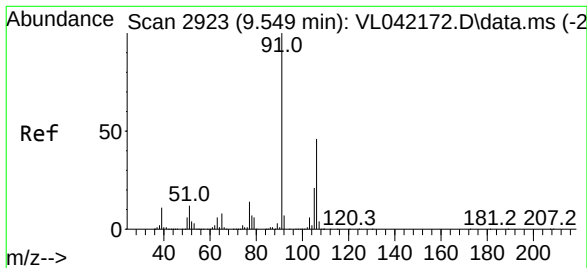
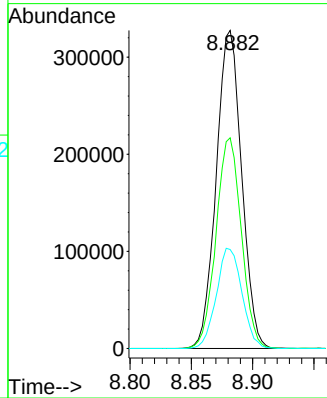
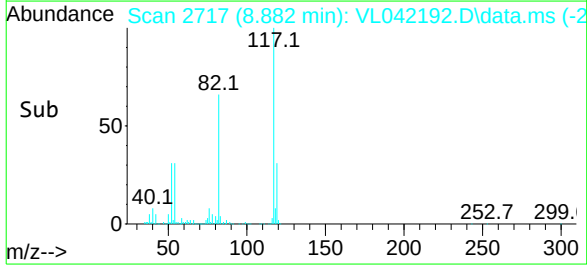
SSSG-B16-1-3262025DL



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 472334 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 65.9  | 55.8  | 83.6   |
| 119      | 31.7  | 25.5  | 38.3   |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#59

m/p-Xylene

Concen: 0.174 ppbv m

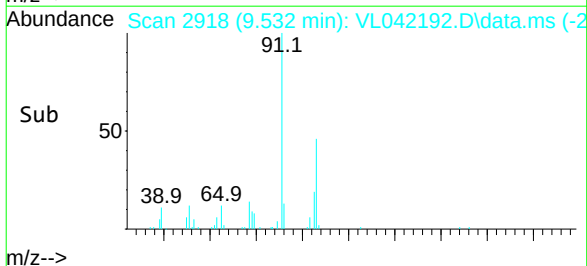
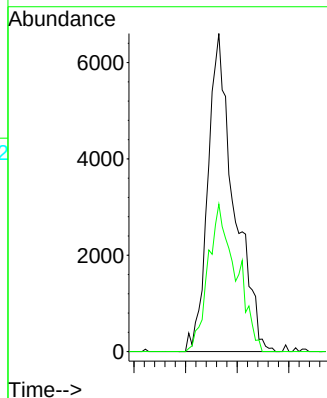
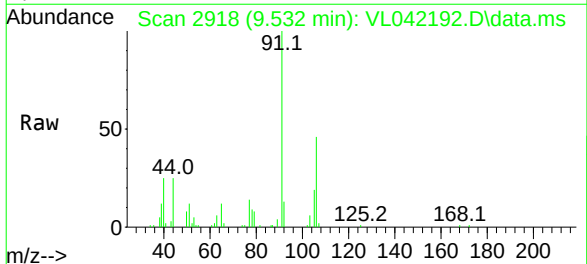
RT: 9.532 min Scan# 2918

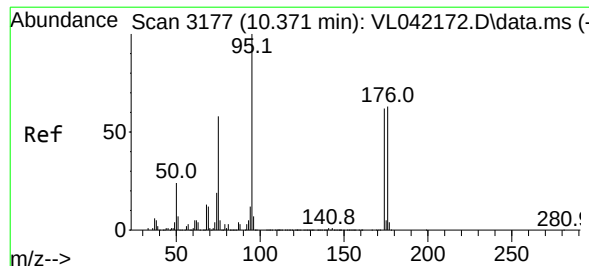
Delta R.T. -0.016 min

Lab File: VL042192.D

Acq: 27 Mar 2025 22:29

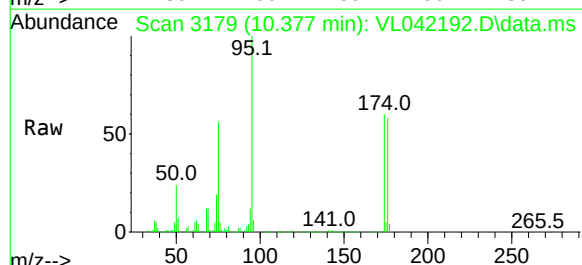
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 11656 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 106      | 0.0   | 36.4  | 54.6  |





#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.898 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. 0.006 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

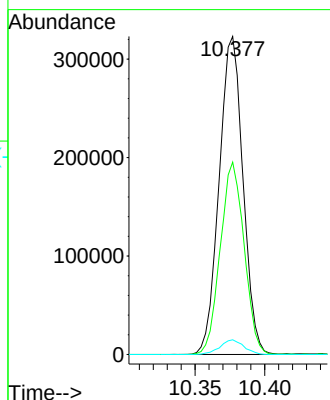
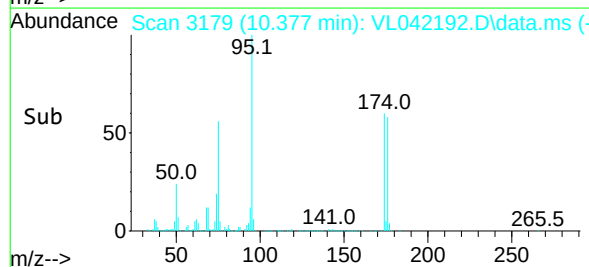
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025DL



| Tgt Ion:  | 95    | Resp: | 383936 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 60.5  | 50.6  | 76.0   |
| 175       | 4.6   | 3.8   | 5.6    |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-B16-2-3262025                              | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-08                                        | 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 |
| VL042199.D        | 1         |           | 03/28/25 02:33 | VL032725      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.42          | 2.08           | J         | 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         | 0.18          | 1.01           | 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                        | 0.14          | 0.57           | J         | 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                        | 10.8          | 25.6           |           | 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             | 0.66          | 2.29           |           | 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                     | 0.63          | 1.86           |           | 0.35  | 1.47       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 0.040         | 0.25           |           | 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                     | 1.30          | 6.35           |           | 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                        | 0.24          | 0.77           | J         | 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           | 3.40          | 13.9           |           | 0.37  | 2.05       | ug/m3 |
| 108-88-3       | Toluene                        | 2.90          | 10.9           |           | 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:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-B16-2-3262025                              | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-08                                        | 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 |
| VL042199.D        | 1         |           | 03/28/25 02:33 | VL032725      |

| 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         | 0.19          | 1.29           |           | 0.14  | 0.20       | ug/m3 |
| 108-90-7    | Chlorobenzene             | 0.10          | 0.46           | J         | 0.37  | 2.30       | ug/m3 |
| 100-41-4    | Ethyl Benzene             | 0.25          | 1.09           | J         | 0.52  | 2.17       | ug/m3 |
| 179601-23-1 | m/p-Xylene                | 1.20          | 5.21           |           | 0.91  | 4.34       | ug/m3 |
| 95-47-6     | o-Xylene                  | 0.45          | 1.95           | J         | 0.52  | 2.17       | ug/m3 |
| 100-42-5    | Styrene                   | 0.37          | 1.58           | J         | 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    | 0.14          | 0.69           | J         | 0.54  | 2.46       | ug/m3 |
| 95-63-6     | 1,2,4-Trimethylbenzene    | 0.32          | 1.57           | 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            | 0.13          | 0.64           | J         | 0.59  | 2.46       | ug/m3 |
| 110-54-3    | Hexane                    | 0.56          | 1.97           |           | 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 |

### SURROGATES

|          |                         |      |  |                     |      |         |
|----------|-------------------------|------|--|---------------------|------|---------|
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.1 |  | 70 (65) - 130 (135) | 101% | SPK: 10 |
|----------|-------------------------|------|--|---------------------|------|---------|

### INTERNAL STANDARDS

|           |                     |        |       |
|-----------|---------------------|--------|-------|
| 74-97-5   | Bromochloromethane  | 181000 | 2.787 |
| 540-36-3  | 1,4-Difluorobenzene | 509000 | 3.959 |
| 3114-55-4 | Chlorobenzene-d5    | 458000 | 8.882 |

### TENTATIVE IDENTIFIED COMPOUNDS

|          |                       |      |   |      |      |
|----------|-----------------------|------|---|------|------|
| 75-45-6  | Chlorodifluoromethane | 0.21 | J | 1.47 | ppbv |
| 115-07-1 | Propene               | 0.16 | J | 1.48 | ppbv |
|          | unknown1.557          | 1.30 | J | 1.56 | ppbv |



## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | SSSG-B16-2-3262025                              | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-08                                        | 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 |
| VL042199.D        | 1         |           | 03/28/25 02:33 | VL032725      |

| CAS Number   | Parameter             | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|--------------|-----------------------|---------------|----------------|-----------|-----|------------|-------|
| 000626-93-7  | 2-Hexanol             | 5.20          |                | J         |     | 6.74       | ppbv  |
| 1000101-47-9 | 1-Iodo-2-methylnonane | 1.20          |                | J         |     | 12.2       | ppbv  |
| 001120-21-4  | Undecane              | 1.30          |                | J         |     | 12.4       | ppbv  |

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\VL032725\  
 Data File : VL042199.D  
 Acq On : 28 Mar 2025 02:33  
 Operator : SY/MD  
 Sample : Q1669-08  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-B16-2-3262025

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 23:04:14 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       |  | 2.787  | 49             | 181183   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene     |  | 3.959  | 114            | 509062   | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5        |  | 8.882  | 117            | 458107   | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds |  |        |                |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene |  | 10.377 | 95             | 379865   | 10.097   | ppbv       | 0.00     |
| Spiked Amount               |  | 10.000 | Range 65 - 135 |          | Recovery | = 101.000% |          |
|                             |  |        |                |          |          |            |          |
| Target Compounds            |  |        |                |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane  |  | 1.496  | 85             | 11194    | 0.418    | ppbv       | 99       |
| 3) Chlorodifluoromethane    |  | 1.473  | 51             | 5843m    | 0.214    | ppbv       |          |
| 9) Propene                  |  | 1.483  | 41             | 1960m    | 0.156    | ppbv       |          |
| 10) Heptane                 |  | 4.982  | 43             | 4590m    | 0.138    | ppbv       |          |
| 11) Trichlorofluoromethane  |  | 1.878  | 101            | 4706     | 0.181    | ppbv       | 94       |
| 13) Ethanol                 |  | 1.722  | 45             | 8952     | 7.560    | ppbv #     | 27       |
| 15) Acetone                 |  | 1.836  | 43             | 272395   | 10.750   | ppbv       | 94       |
| 17) tert-Butyl alcohol      |  | 2.046  | 59             | 5649     | 0.179    | ppbv #     | 71       |
| 20) Methylene Chloride      |  | 2.062  | 84             | 6239     | 0.661    | ppbv       | 92       |
| 26) Hexane                  |  | 2.826  | 57             | 14117    | 0.556    | ppbv #     | 40       |
| 29) Chloroform              |  | 2.849  | 83             | 47910    | 1.289    | ppbv       | 97       |
| 30) Cyclohexane             |  | 3.858  | 84             | 2653m    | 0.120    | ppbv       |          |
| 34) 2-Butanone              |  | 2.564  | 43             | 23343    | 0.632    | ppbv       | 95       |
| 35) Carbon Tetrachloride    |  | 3.771  | 117            | 1682m    | 0.042    | ppbv       |          |
| 36) Benzene                 |  | 3.658  | 78             | 11929    | 0.236    | ppbv       | 98       |
| 50) 4-Methyl-2-Pentanone    |  | 5.762  | 43             | 196564   | 3.360    | ppbv       | 97       |
| 52) Tetrachloroethene       |  | 8.225  | 164            | 3844     | 0.192    | ppbv       | 85       |
| 53) Toluene                 |  | 6.933  | 91             | 171948   | 2.874    | ppbv       | 100      |
| 57) Chlorobenzene           |  | 8.917  | 112            | 4154m    | 0.096    | ppbv       |          |
| 58) Ethyl Benzene           |  | 9.354  | 91             | 20640    | 0.254    | ppbv       | 90       |
| 59) m/p-Xylene              |  | 9.532  | 91             | 79433m   | 1.222    | ppbv       |          |
| 60) o-Xylene                |  | 9.966  | 91             | 29151    | 0.448    | ppbv       | 100      |
| 61) Styrene                 |  | 9.875  | 104            | 11979    | 0.372    | ppbv       | 96       |
| 72) 4-Ethyltoluene          |  | 11.125 | 105            | 10586    | 0.131    | ppbv #     | 89       |
| 73) 1,3,5-Trimethylbenzene  |  | 11.206 | 105            | 9797     | 0.138    | ppbv       | 95       |
| 74) 1,2,4-Trimethylbenzene  |  | 11.536 | 105            | 25878    | 0.317    | ppbv #     | 69       |

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

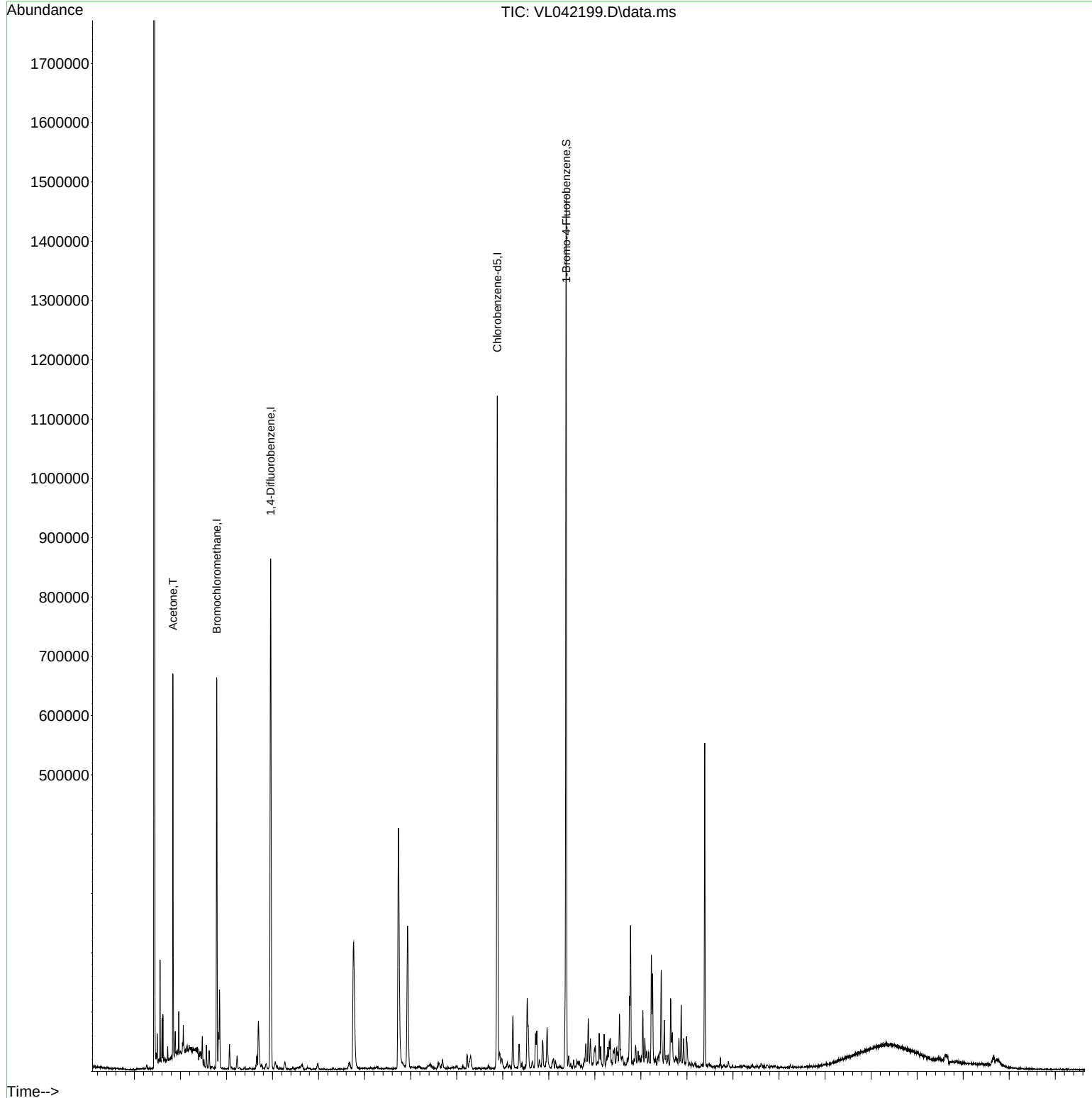
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Data File : VL042199.D  
Acq On : 28 Mar 2025 02:33  
Operator : SY/MD  
Sample : Q1669-08  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

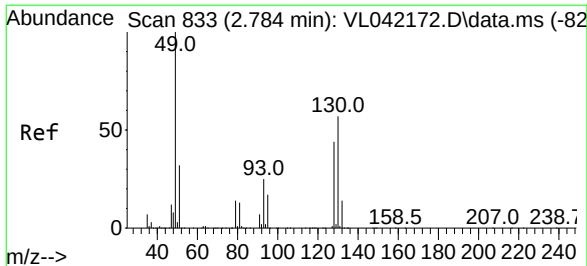
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

Quant Time: Mar 28 23:04:14 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

Manual Integrations  
APPROVED

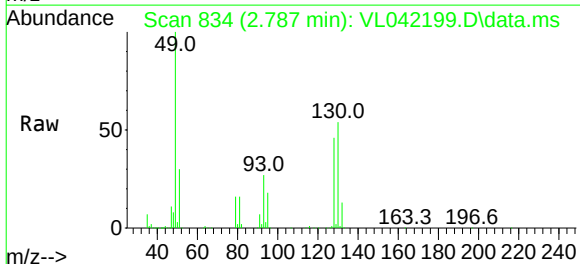
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 833  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

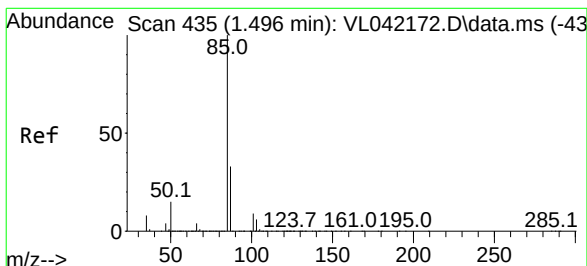
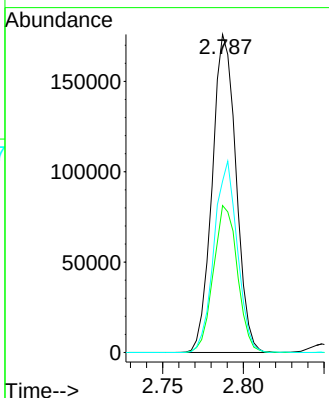
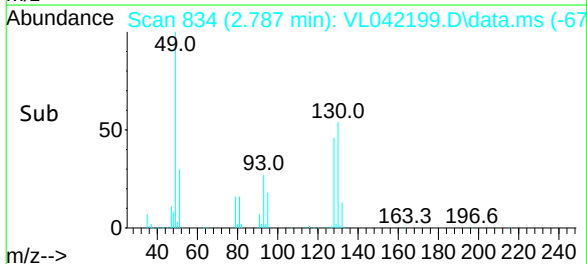
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025



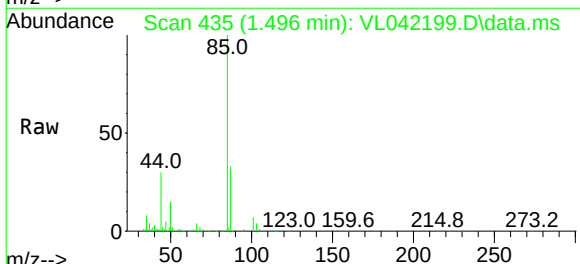
Tgt Ion: 49 Resp: 181183  
Ion Ratio Lower Upper  
49 100  
128 46.5 22.9 68.5  
130 58.6 28.8 86.4

Manual Integrations  
APPROVED

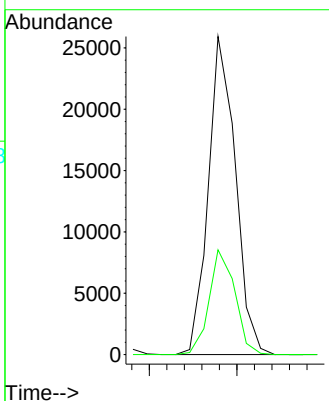
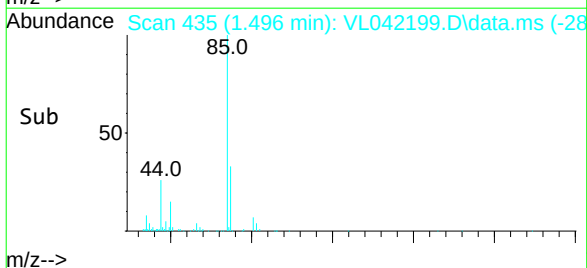
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

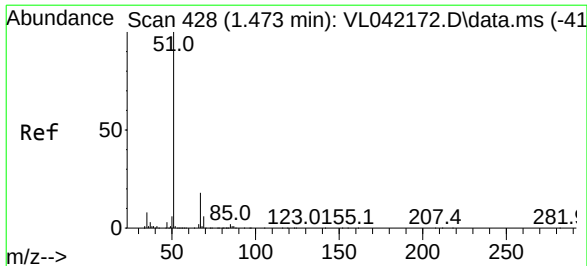


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Dichlorodifluoromethane  
Concen: 0.418 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33



Tgt Ion: 85 Resp: 11194  
Ion Ratio Lower Upper  
85 100  
87 32.9 26.1 39.1





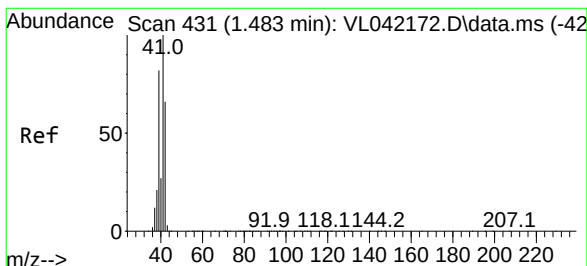
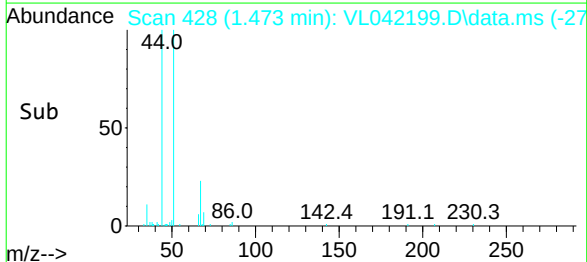
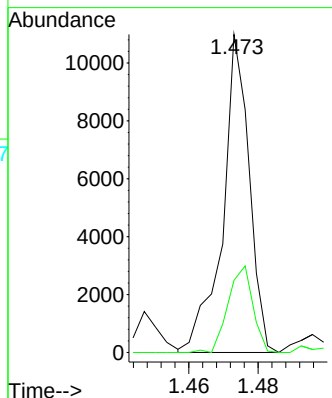
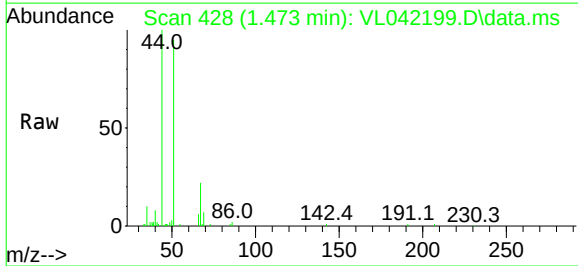
#3  
Chlorodifluoromethane  
Concen: 0.214 ppbv m  
RT: 1.473 min Scan# 428  
Delta R.T. -0.000 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Instrument : MSVOA\_L  
ClientSampleId : SSSG-B16-2-3262025

Tgt Ion: 51 Resp: 5843  
Ion Ratio Lower Upper  
51 100  
67 28.7 15.0 22.6#

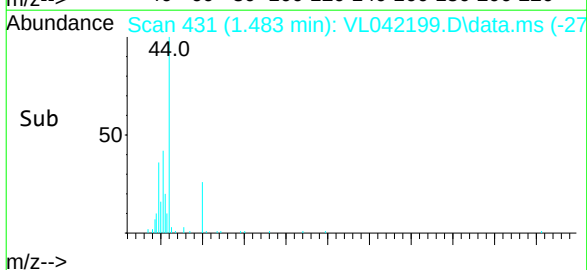
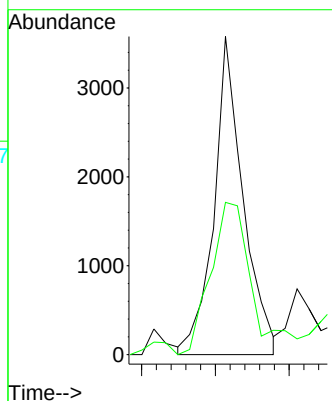
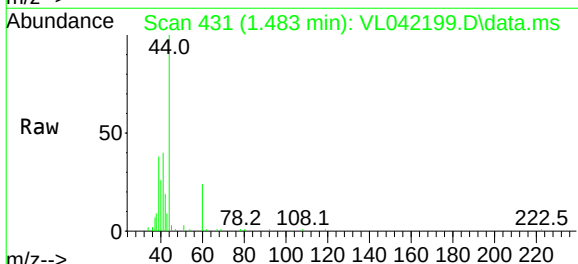
Manual Integrations  
APPROVED

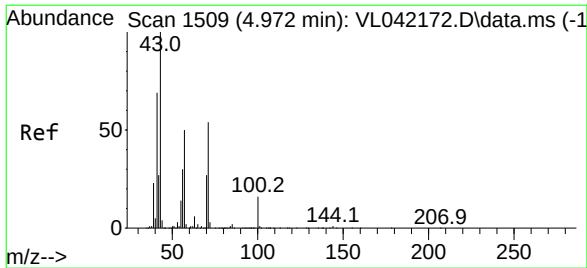
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#9  
Propene  
Concen: 0.156 ppbv m  
RT: 1.483 min Scan# 431  
Delta R.T. -0.000 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 41 Resp: 1960  
Ion Ratio Lower Upper  
41 100  
42 253.7 55.4 83.2#





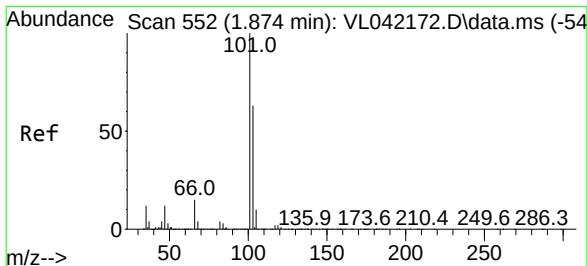
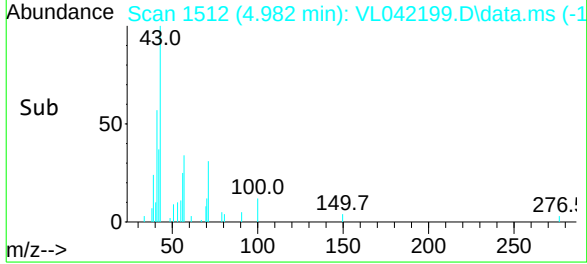
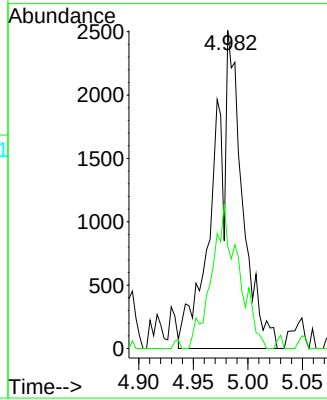
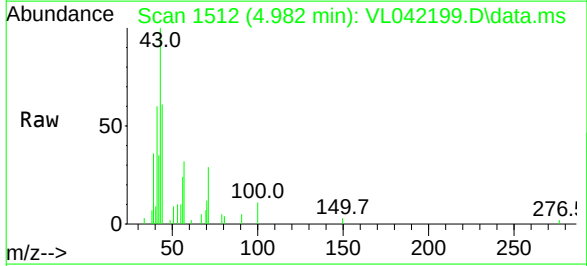
#10  
Heptane  
Concen: 0.138 ppbv m  
RT: 4.982 min Scan# 1509  
Delta R.T. 0.010 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

Tgt Ion: 43 Resp: 4590  
Ion Ratio Lower Upper  
43 100  
57 43.5 39.4 59.2

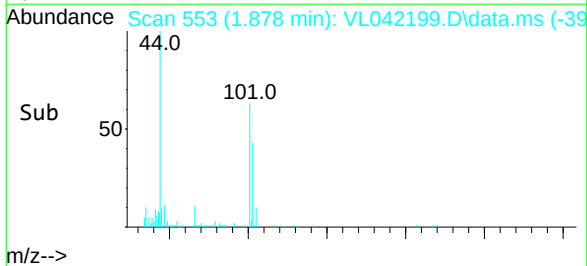
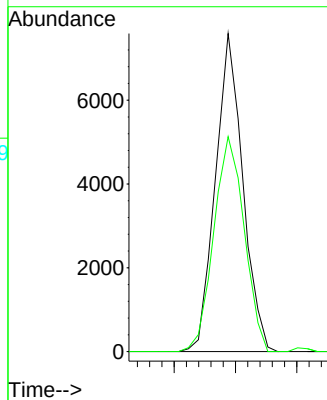
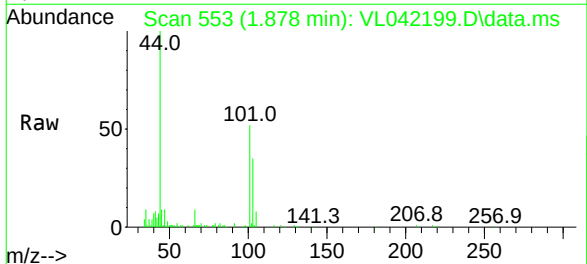
Manual Integrations  
APPROVED

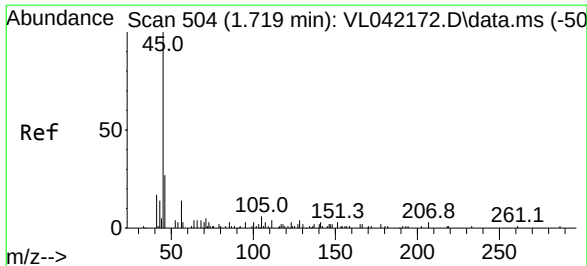
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#11  
Trichlorofluoromethane  
Concen: 0.181 ppbv  
RT: 1.878 min Scan# 553  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion:101 Resp: 4706  
Ion Ratio Lower Upper  
101 100  
103 67.6 50.2 75.2





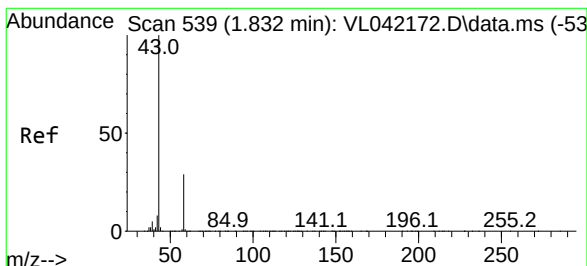
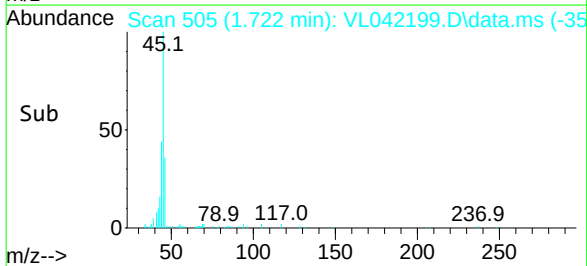
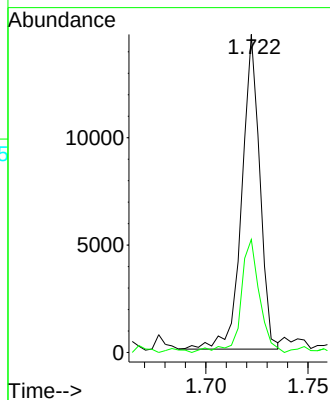
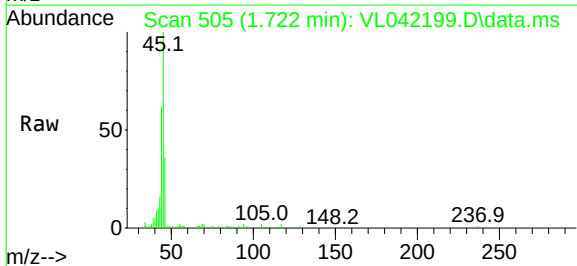
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Ethanol  
Concen: 7.560 ppbv  
RT: 1.722 min Scan# 50  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

Tgt Ion: 45 Resp: 8952  
Ion Ratio Lower Upper  
45 100  
46 0.0 20.2 80.8#

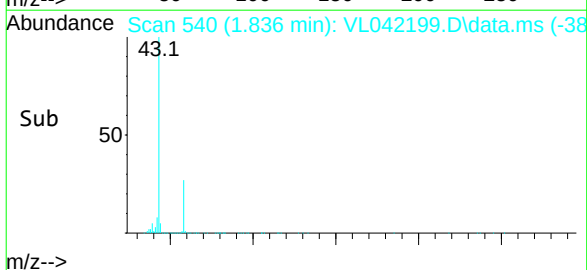
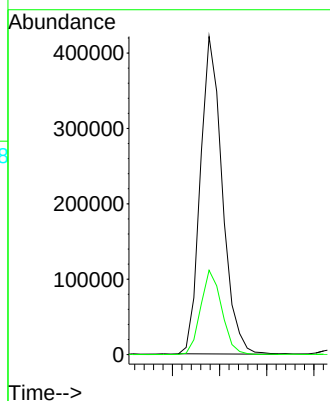
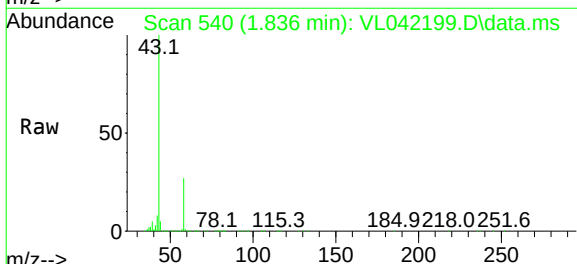
Manual Integrations  
APPROVED

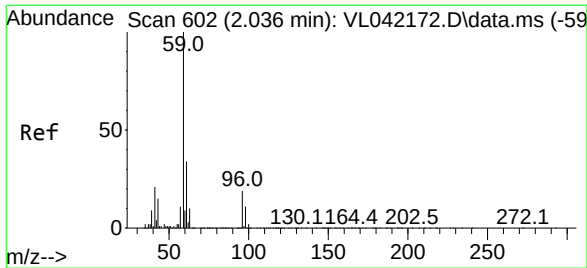
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#15  
Acetone  
Concen: 10.750 ppbv  
RT: 1.836 min Scan# 540  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 43 Resp: 272395  
Ion Ratio Lower Upper  
43 100  
58 25.7 23.2 34.8





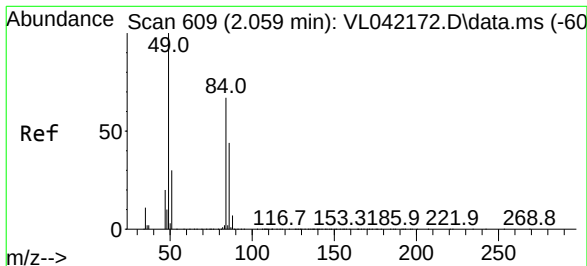
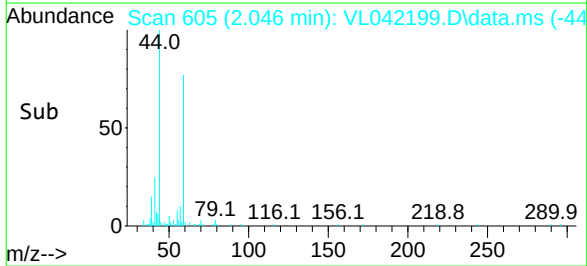
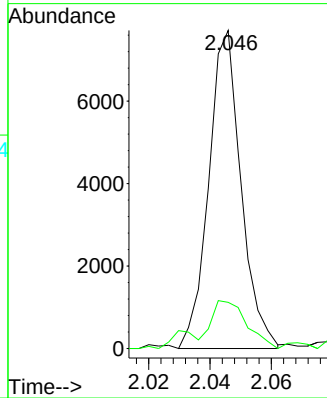
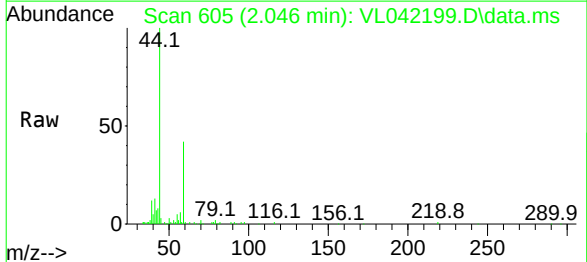
#17  
tert-Butyl alcohol  
Concen: 0.179 ppbv  
RT: 2.046 min Scan# 602  
Delta R.T. 0.010 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

Tgt Ion: 59 Resp: 5649  
Ion Ratio Lower Upper  
59 100  
57 22.0 8.9 13.3#

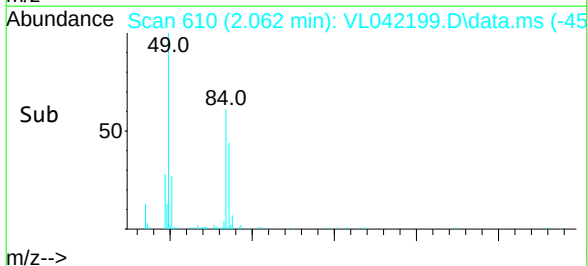
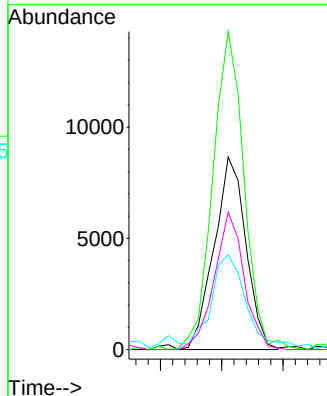
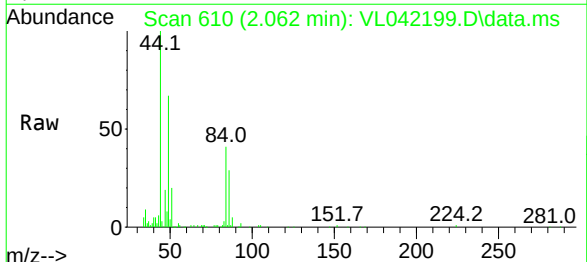
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

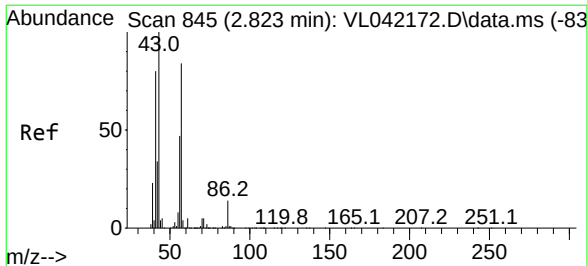


#20  
Methylene Chloride  
Concen: 0.661 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 84 Resp: 6239  
Ion Ratio Lower Upper  
84 100  
49 164.3 120.2 180.4  
51 46.0 37.4 56.0  
86 71.4 52.4 78.6

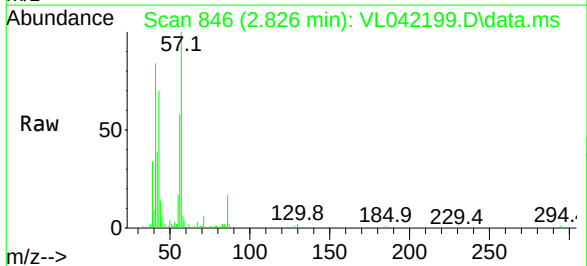






#26  
Hexane  
Concen: 0.556 ppbv  
RT: 2.826 min Scan# 84  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

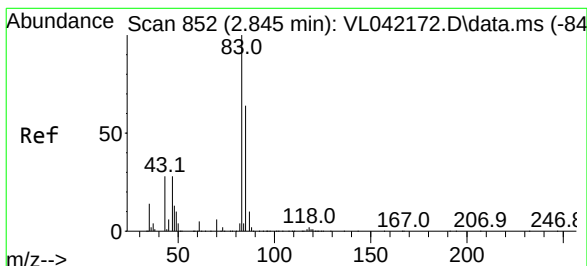
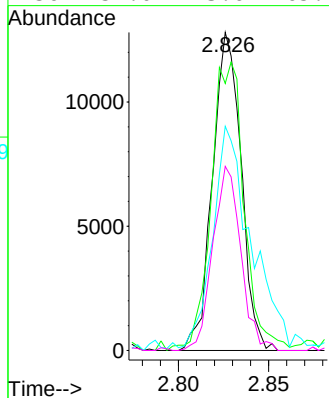
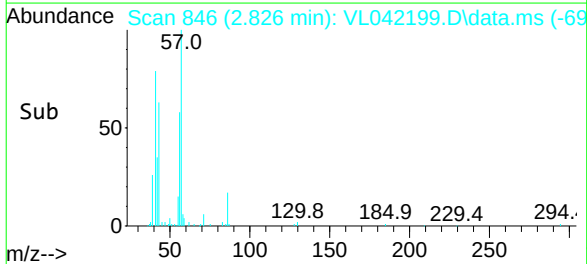
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025



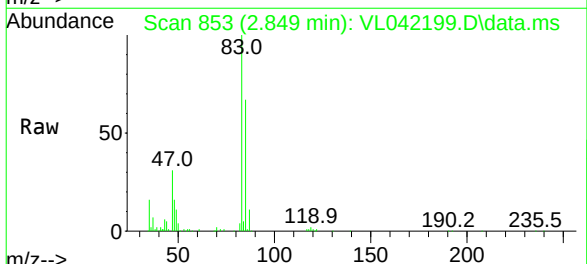
Tgt Ion: 57 Resp: 14117  
Ion Ratio Lower Upper  
57 100  
41 107.0 76.6 114.8  
43 100.8 207.8 311.8#  
56 57.0 43.6 65.4

Manual Integrations  
APPROVED

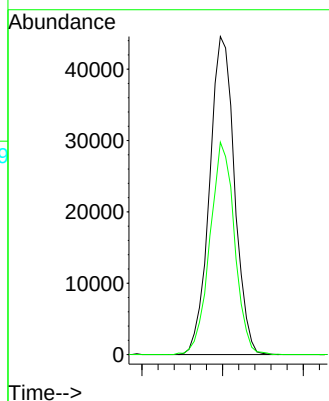
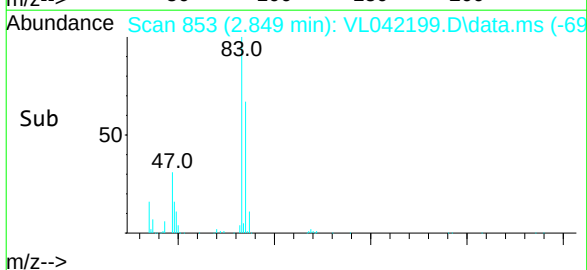
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

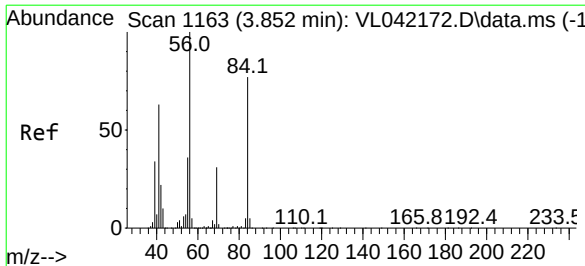


#29  
Chloroform  
Concen: 1.289 ppbv  
RT: 2.849 min Scan# 853  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33



Tgt Ion: 83 Resp: 47910  
Ion Ratio Lower Upper  
83 100  
85 66.6 51.4 77.2





#30

Cyclohexane

Concen: 0.120 ppbv m

RT: 3.858 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL042199.D

Acq: 28 Mar 2025 02:33

Instrument :

MSVOA\_L

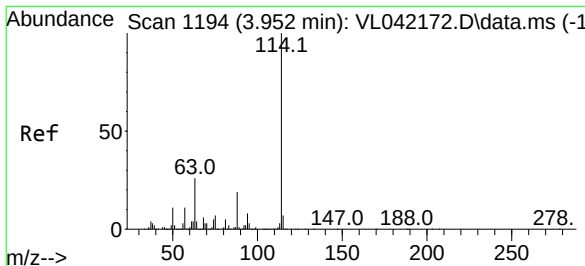
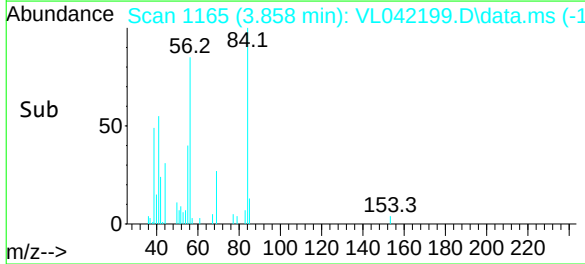
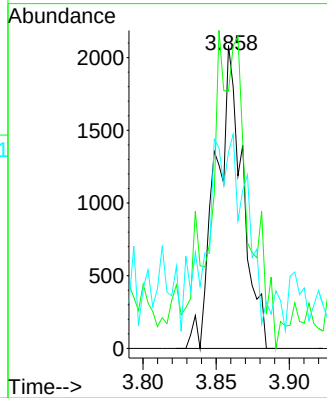
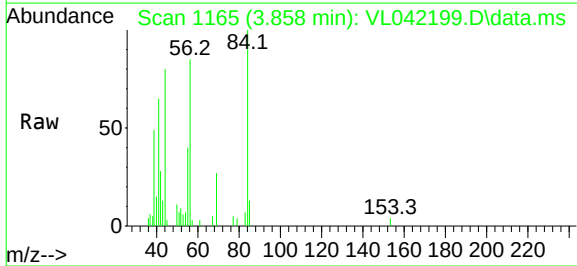
ClientSampleId :

SSSG-B16-2-3262025

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 2653   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 56       | 0.0   | 102.8 | 154.2# |
| 41       | 0.0   | 66.5  | 99.7#  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

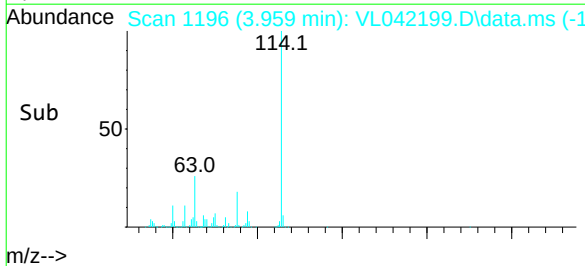
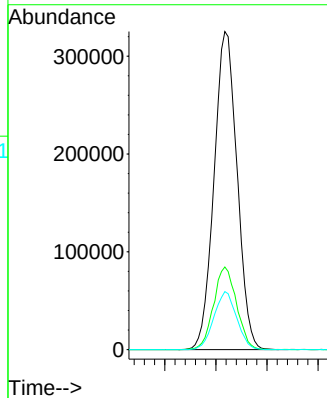
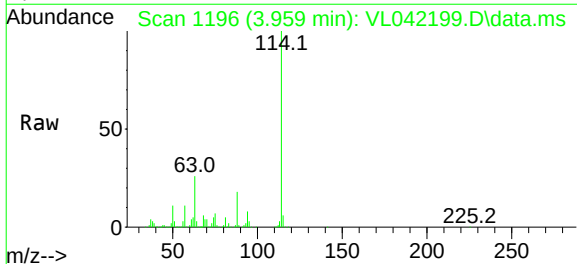
RT: 3.959 min Scan# 1196

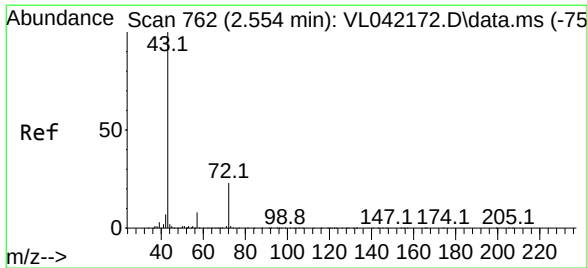
Delta R.T. 0.006 min

Lab File: VL042199.D

Acq: 28 Mar 2025 02:33

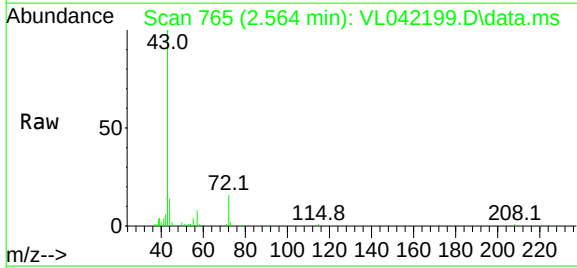
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 509062 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 25.9  | 20.7  | 31.1   |
| 88       | 18.0  | 15.0  | 22.4   |





#34  
2-Butanone  
Concen: 0.632 ppbv  
RT: 2.564 min Scan# 762  
Delta R.T. 0.010 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

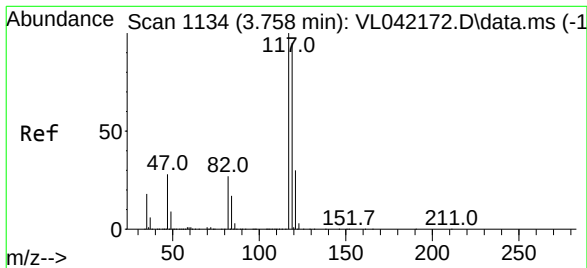
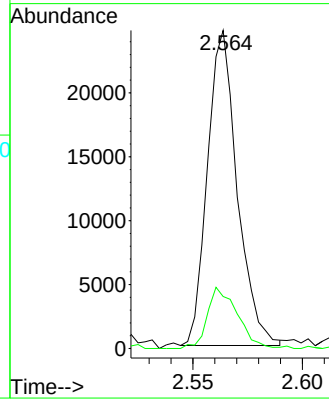
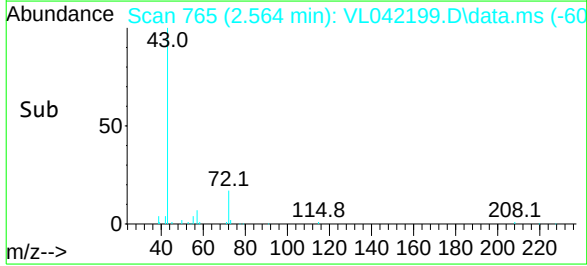
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025



Tgt Ion: 43 Resp: 23343  
Ion Ratio Lower Upper  
43 100  
72 20.2 18.2 27.2

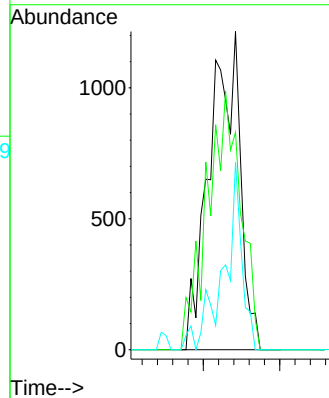
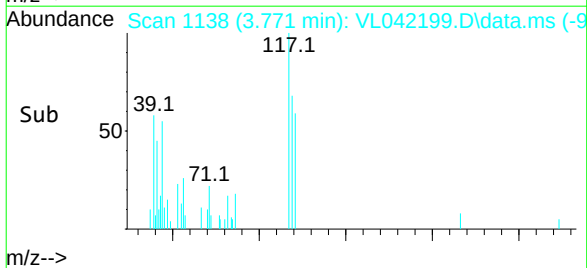
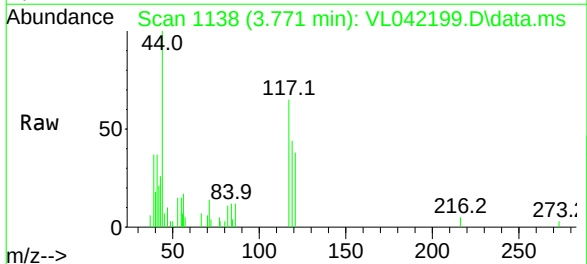
Manual Integrations  
APPROVED

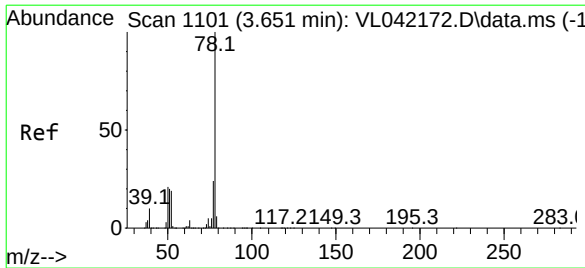
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#35  
Carbon Tetrachloride  
Concen: 0.042 ppbv m  
RT: 3.771 min Scan# 1138  
Delta R.T. 0.013 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

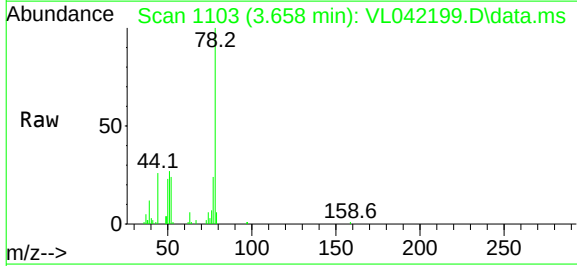
Tgt Ion:117 Resp: 1682  
Ion Ratio Lower Upper  
117 100  
119 68.3 76.2 114.2#  
121 58.9 24.2 36.4#





#36  
Benzene  
Concen: 0.236 ppbv  
RT: 3.658 min Scan# 1101  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

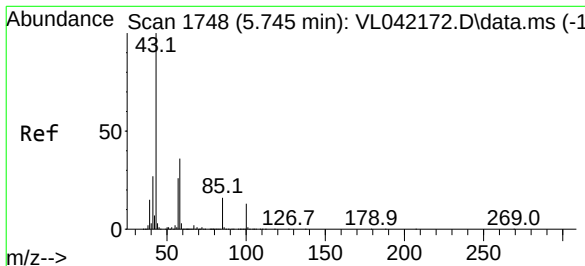
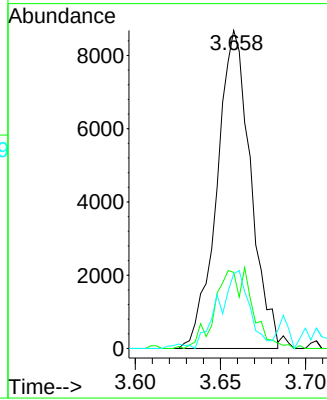
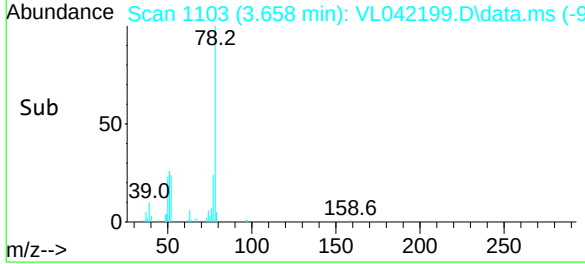
Instrument : MSVOA\_L  
ClientSampleId : SSSG-B16-2-3262025



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.3  | 19.1  | 28.7  |
| 50      | 22.0  | 16.6  | 24.8  |

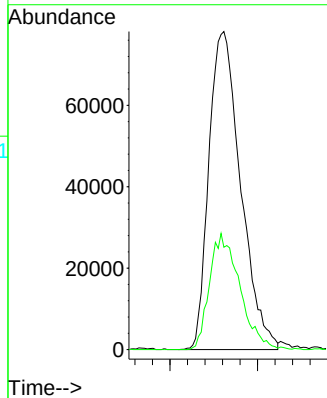
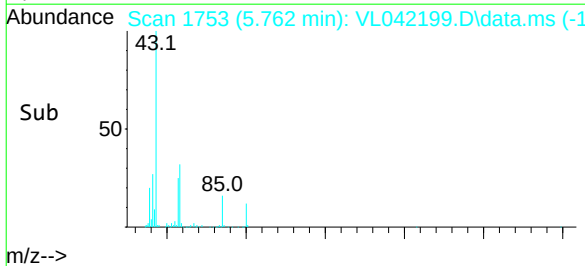
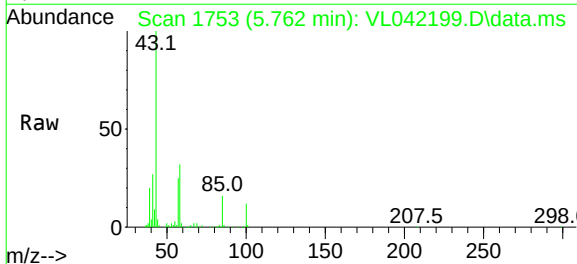
Manual Integrations  
APPROVED

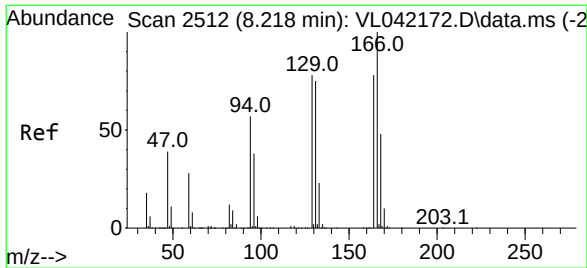
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#50  
4-Methyl-2-Pentanone  
Concen: 3.360 ppbv  
RT: 5.762 min Scan# 1753  
Delta R.T. 0.016 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

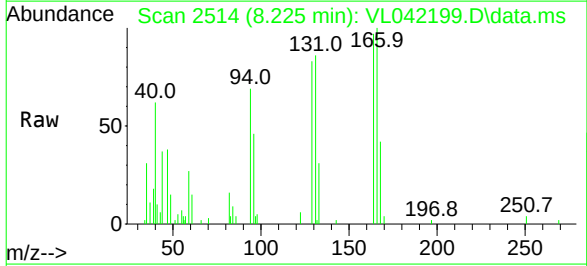
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 34.8  | 29.0  | 43.6  |





#52  
Tetrachloroethene  
Concen: 0.192 ppbv  
RT: 8.225 min Scan# 2512  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

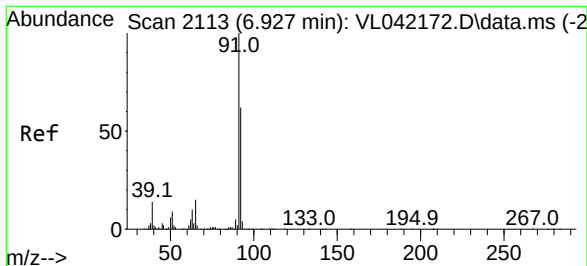
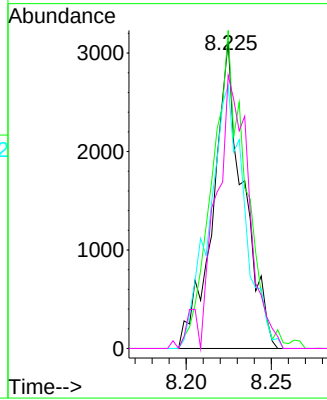
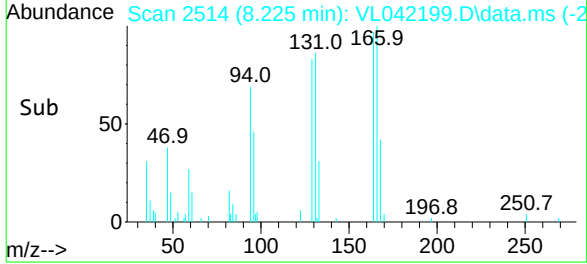
Instrument : MSVOA\_L  
ClientSampleId : SSSG-B16-2-3262025



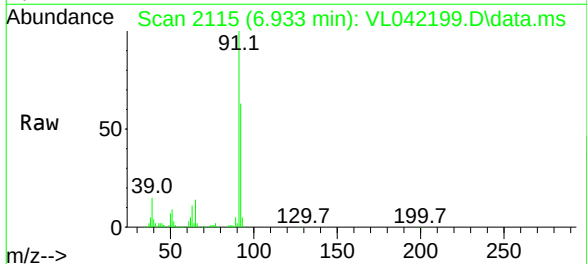
Tgt Ion: 164 Resp: 3844  
Ion Ratio Lower Upper  
164 100  
166 103.6 102.5 153.7  
129 85.8 79.8 119.8  
131 88.9 76.6 114.8

Manual Integrations  
APPROVED

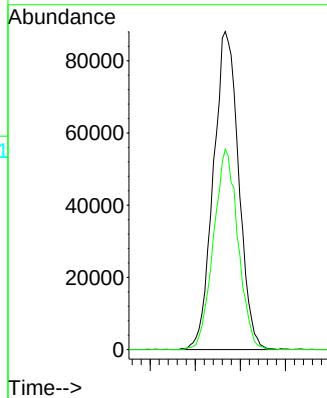
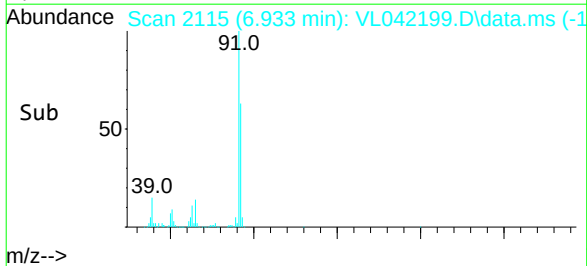
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

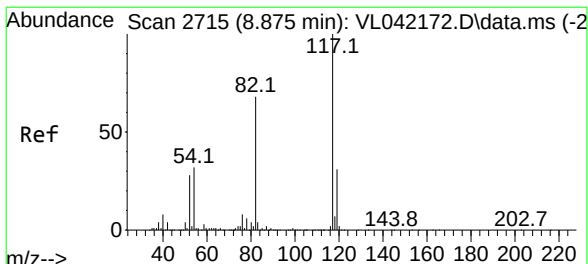


#53  
Toluene  
Concen: 2.874 ppbv  
RT: 6.933 min Scan# 2115  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33



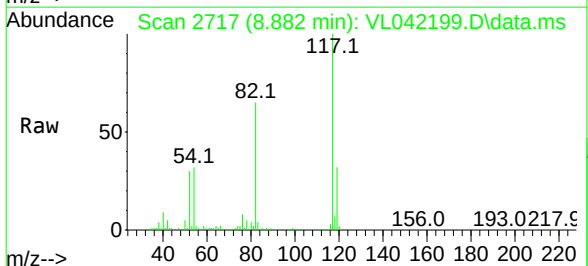
Tgt Ion: 91 Resp: 171948  
Ion Ratio Lower Upper  
91 100  
92 60.9 48.4 72.6





#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 8.882 min Scan# 2715  
 Delta R.T. 0.006 min  
 Lab File: VL042199.D  
 Acq: 28 Mar 2025 02:33

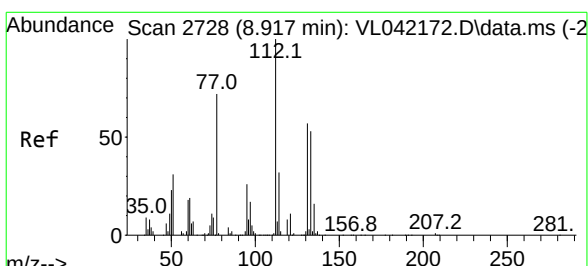
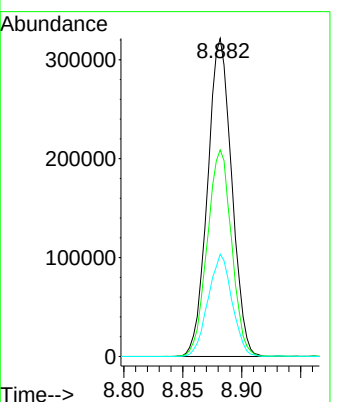
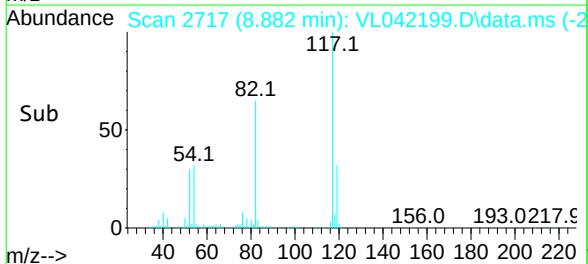
Instrument : MSVOA\_1  
 ClientSampleId : SSSG-B16-2-3262025



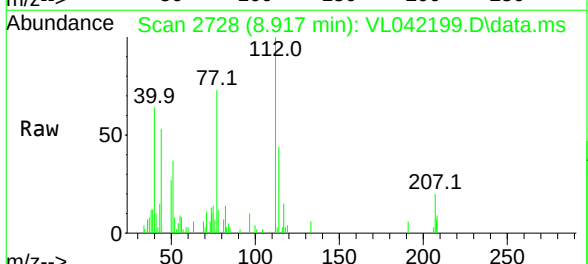
Tgt Ion: 117 Resp: 458107

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 65.5  | 55.8  | 83.6  |
| 119 | 32.0  | 25.5  | 38.3  |

Manual Integrations  
**APPROVED**  
 Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

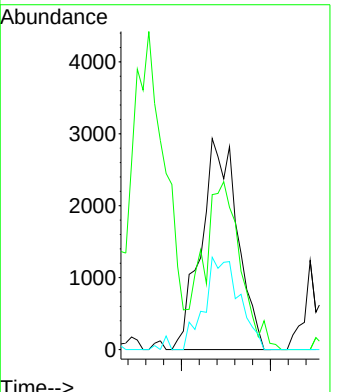
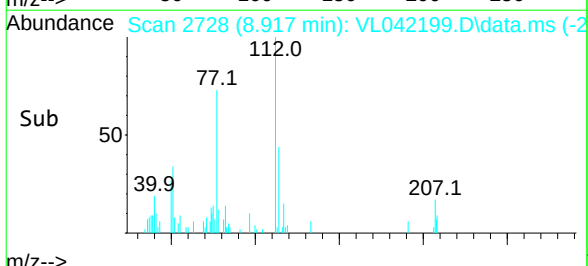


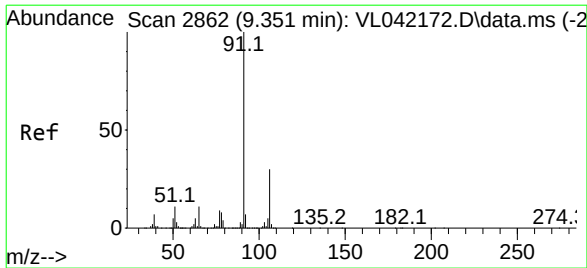
#57  
 Chlorobenzene  
 Concen: 0.096 ppbv m  
 RT: 8.917 min Scan# 2728  
 Delta R.T. -0.000 min  
 Lab File: VL042199.D  
 Acq: 28 Mar 2025 02:33



Tgt Ion: 112 Resp: 4154

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 77  | 73.4  | 58.2  | 87.2  |
| 114 | 43.8  | 29.1  | 35.5  |





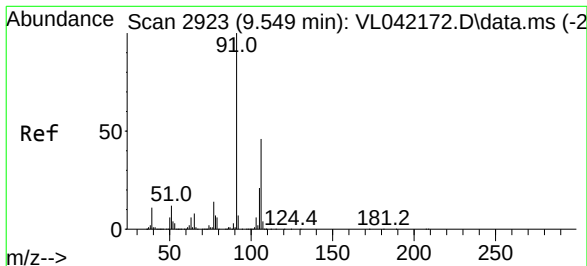
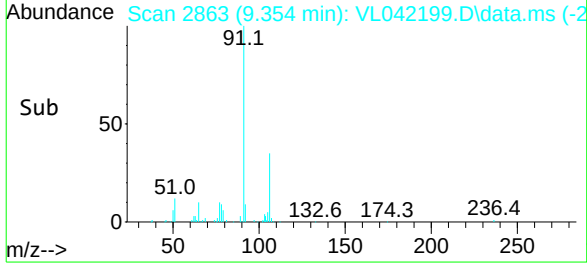
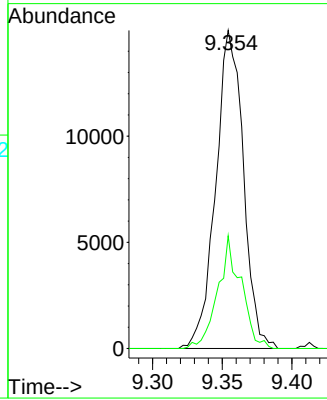
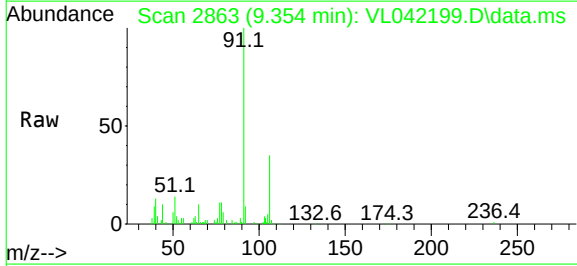
#58  
Ethyl Benzene  
Concen: 0.254 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

Tgt Ion: 91 Resp: 20640  
Ion Ratio Lower Upper  
91 100  
106 35.4 24.2 36.2

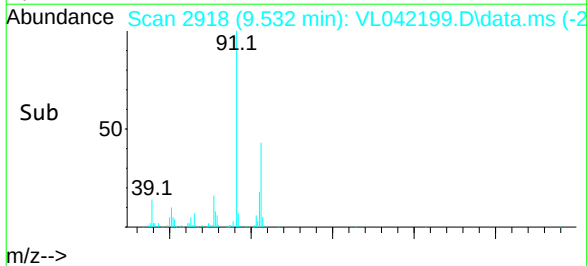
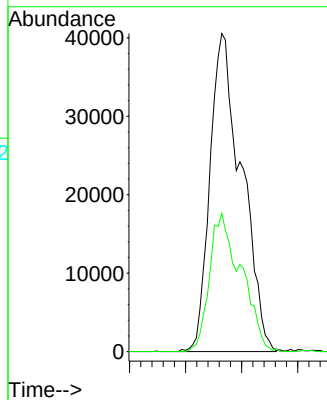
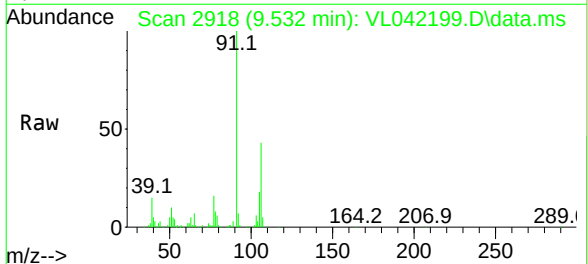
Manual Integrations  
APPROVED

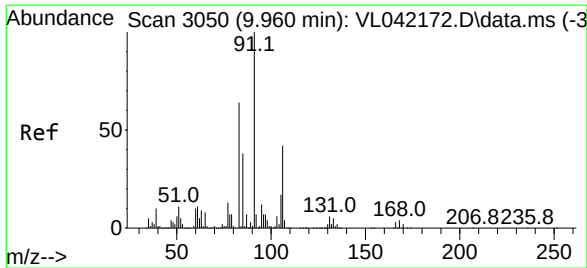
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#59  
m/p-Xylene  
Concen: 1.222 ppbv m  
RT: 9.532 min Scan# 2918  
Delta R.T. -0.016 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 91 Resp: 79433  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.4 54.6#





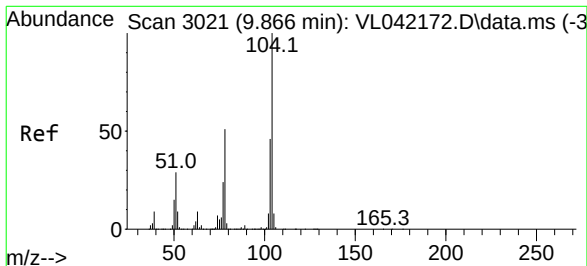
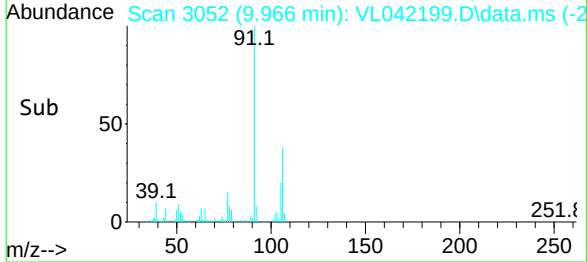
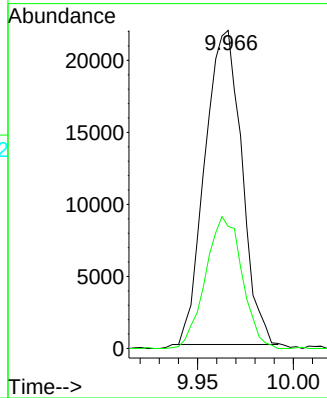
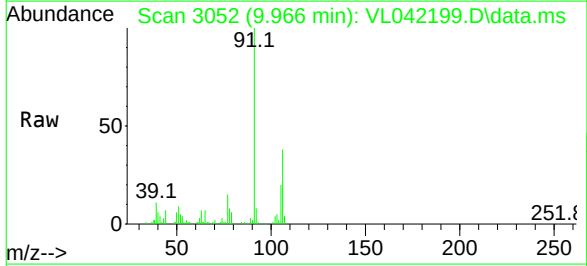
#60  
o-Xylene  
Concen: 0.448 ppbv  
RT: 9.966 min Scan# 3050  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Instrument : MSVOA\_L  
ClientSampleId : SSSG-B16-2-3262025

Tgt Ion: 91 Resp: 29151  
Ion Ratio Lower Upper  
91 100  
106 41.7 20.8 62.5

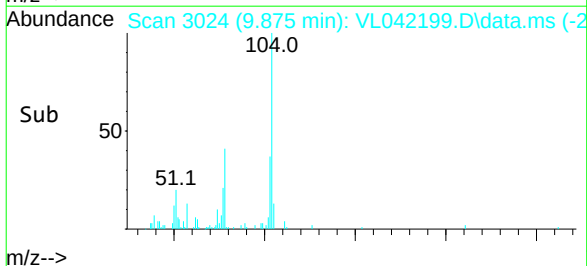
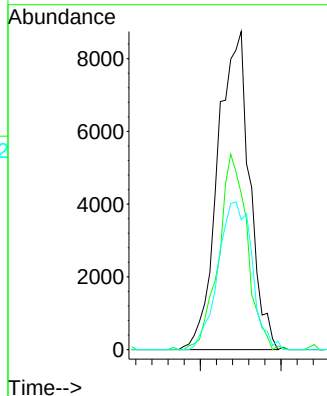
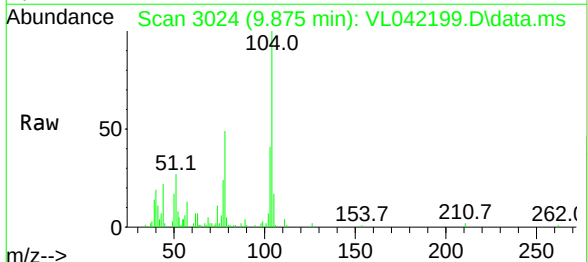
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

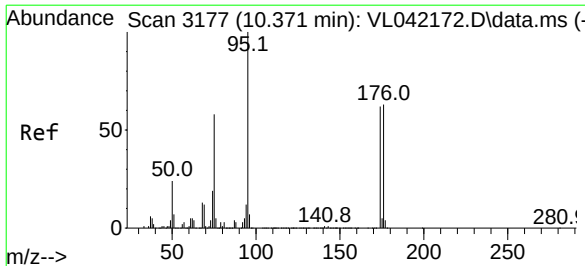


#61  
Styrene  
Concen: 0.372 ppbv  
RT: 9.875 min Scan# 3024  
Delta R.T. 0.010 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion:104 Resp: 11979  
Ion Ratio Lower Upper  
104 100  
78 55.0 41.8 62.6  
103 49.5 37.0 55.4

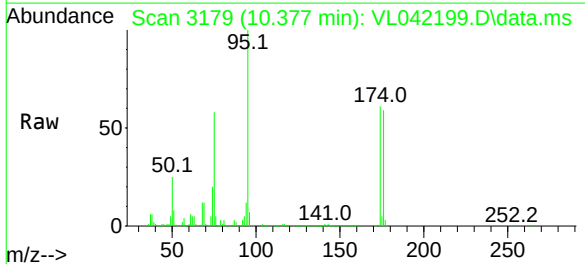






#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.097 ppbv  
RT: 10.377 min Scan# 3177  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

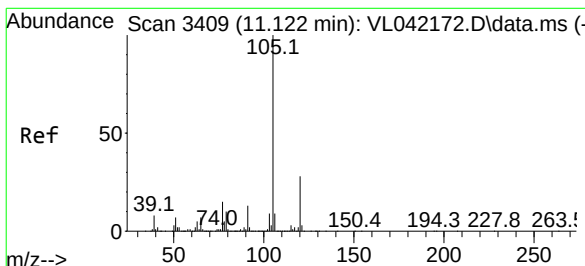
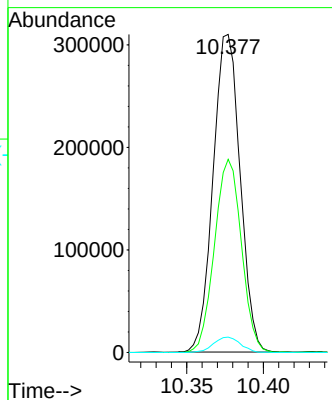
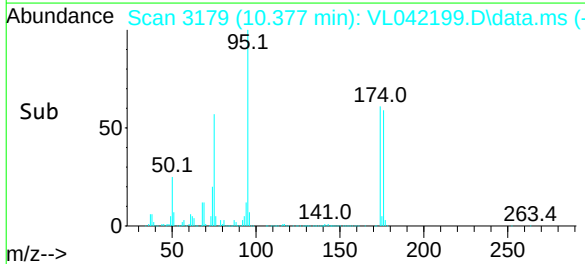
Instrument : MSVOA\_L  
ClientSampleId : SSSG-B16-2-3262025



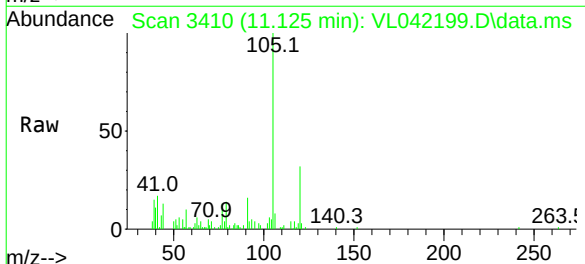
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 379865 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 60.7  | 50.6  | 76.0   |
| 175      | 4.8   | 3.8   | 5.6    |

Manual Integrations  
APPROVED

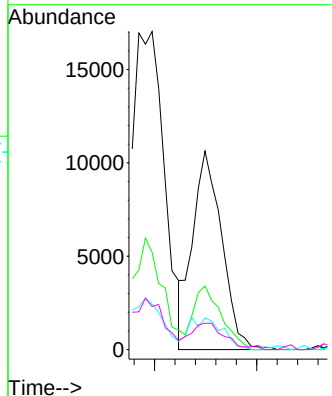
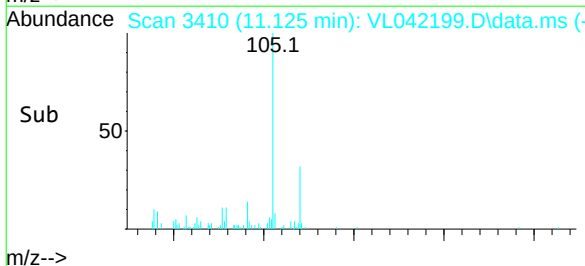
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

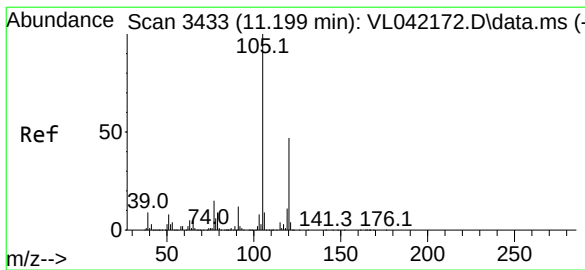


#72  
4-Ethyltoluene  
Concen: 0.131 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33



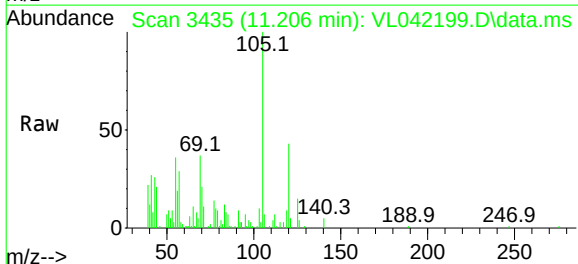
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 10586 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 30.1  | 23.4  | 35.0  |
| 91       | 14.4  | 10.3  | 15.5  |
| 77       | 0.0   | 11.4  | 17.2  |





#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.138 ppbv  
 RT: 11.206 min Scan# 3435  
 Delta R.T. 0.006 min  
 Lab File: VL042199.D  
 Acq: 28 Mar 2025 02:33

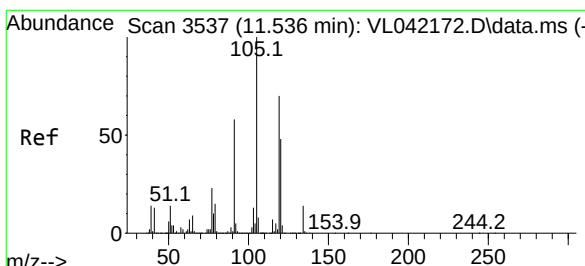
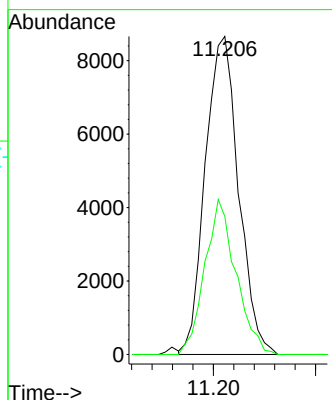
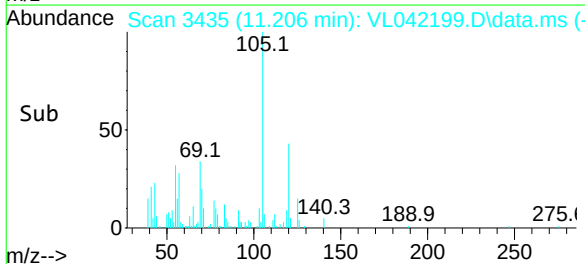
Instrument : MSVOA\_L  
 ClientSampleId : SSSG-B16-2-3262025



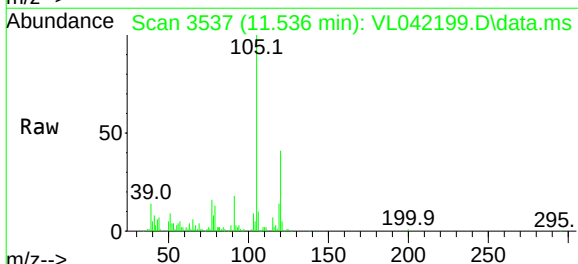
Tgt Ion: 105 Resp: 9797  
 Ion Ratio Lower Upper  
 105 100  
 120 43.4 37.4 56.0

Manual Integrations  
 APPROVED

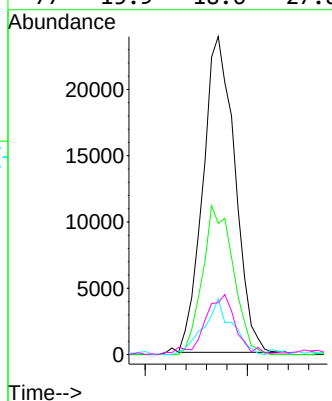
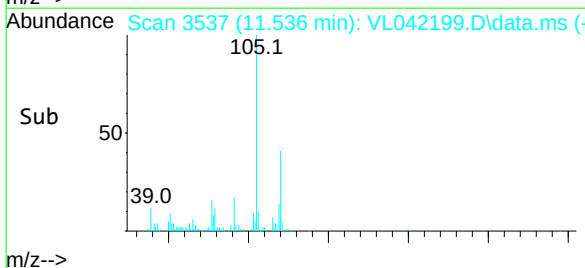
Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025



#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.317 ppbv  
 RT: 11.536 min Scan# 3537  
 Delta R.T. -0.000 min  
 Lab File: VL042199.D  
 Acq: 28 Mar 2025 02:33



Tgt Ion: 105 Resp: 25878  
 Ion Ratio Lower Upper  
 105 100  
 120 41.5 38.6 58.0  
 91 16.8 46.2 69.2#  
 77 15.9 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042199.D  
Acq On : 28 Mar 2025 02:33  
Operator : SY/MD  
Sample : Q1669-08  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

Signal : TIC: VL042199.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.424       | 409           | 413         | 416          | rBV      | 4440328        | 3788673       | 100.00%         | 21.598%       |
| 2         | 1.437       | 416           | 417         | 421          | rVB2     | 3931811        | 1566143       | 41.34%          | 8.928%        |
| 3         | 1.557       | 450           | 454         | 460          | rVB      | 171783         | 91164         | 2.41%           | 0.520%        |
| 4         | 1.619       | 470           | 473         | 478          | rVB      | 79256          | 46485         | 1.23%           | 0.265%        |
| 5         | 1.836       | 535           | 540         | 548          | rBV      | 649686         | 469304        | 12.39%          | 2.675%        |
| 6         | 1.965       | 575           | 580         | 586          | rVB2     | 71313          | 51576         | 1.36%           | 0.294%        |
| 7         | 2.476       | 733           | 738         | 745          | rVB2     | 49344          | 49414         | 1.30%           | 0.282%        |
| 8         | 2.787       | 827           | 834         | 842          | rBV      | 658875         | 696628        | 18.39%          | 3.971%        |
| 9         | 2.829       | 842           | 847         | 849          | rVV      | 60614          | 64728         | 1.71%           | 0.369%        |
| 10        | 2.849       | 849           | 853         | 861          | rVB      | 131961         | 135737        | 3.58%           | 0.774%        |
| 11        | 3.065       | 914           | 920         | 931          | rBV3     | 41780          | 51260         | 1.35%           | 0.292%        |
| 12        | 3.693       | 1108          | 1114        | 1130         | rVB3     | 77181          | 122895        | 3.24%           | 0.701%        |
| 13        | 3.959       | 1182          | 1196        | 1212         | rBV      | 859693         | 1350010       | 35.63%          | 7.696%        |
| 14        | 5.762       | 1741          | 1753        | 1773         | rBV5     | 212395         | 539150        | 14.23%          | 3.074%        |
| 15        | 6.736       | 2041          | 2054        | 2078         | rBV3     | 405615         | 877662        | 23.17%          | 5.003%        |
| 16        | 6.933       | 2101          | 2115        | 2133         | rVB2     | 239517         | 476198        | 12.57%          | 2.715%        |
| 17        | 8.302       | 2532          | 2538        | 2553         | rVB9     | 22475          | 45598         | 1.20%           | 0.260%        |
| 18        | 8.882       | 2700          | 2717        | 2727         | rBV      | 1135350        | 1684917       | 44.47%          | 9.605%        |
| 19        | 9.222       | 2811          | 2822        | 2833         | rBV3     | 87460          | 131673        | 3.48%           | 0.751%        |
| 20        | 9.354       | 2853          | 2863        | 2871         | rBV2     | 41619          | 63241         | 1.67%           | 0.361%        |
| 21        | 9.532       | 2909          | 2918        | 2922         | rBV2     | 116429         | 168365        | 4.44%           | 0.960%        |
| 22        | 9.548       | 2922          | 2923        | 2937         | rVB5     | 74363          | 83063         | 2.19%           | 0.474%        |
| 23        | 9.717       | 2965          | 2975        | 2978         | rBV3     | 55719          | 82036         | 2.17%           | 0.468%        |
| 24        | 9.743       | 2978          | 2983        | 2992         | rVB2     | 61722          | 81763         | 2.16%           | 0.466%        |
| 25        | 9.866       | 3011          | 3021        | 3033         | rVB4     | 44650          | 74434         | 1.96%           | 0.424%        |
| 26        | 9.963       | 3040          | 3051        | 3068         | rVB      | 67793          | 118361        | 3.12%           | 0.675%        |
| 27        | 10.377      | 3160          | 3179        | 3189         | rBV      | 1471912        | 1918225       | 50.63%          | 10.935%       |
| 28        | 10.856      | 3321          | 3327        | 3335         | rVV3     | 73952          | 90190         | 2.38%           | 0.514%        |
| 29        | 10.905      | 3335          | 3342        | 3354         | rVB6     | 43874          | 66871         | 1.77%           | 0.381%        |
| 30        | 11.011      | 3370          | 3375        | 3382         | rVB4     | 32949          | 42513         | 1.12%           | 0.242%        |
| 31        | 11.096      | 3395          | 3401        | 3407         | rBV2     | 50006          | 55030         | 1.45%           | 0.314%        |
| 32        | 11.202      | 3424          | 3434        | 3441         | rVB5     | 53807          | 67775         | 1.79%           | 0.386%        |
| 33        | 11.536      | 3529          | 3537        | 3548         | rBV2     | 79126          | 108800        | 2.87%           | 0.620%        |
| 34        | 11.756      | 3597          | 3605        | 3606         | rBV2     | 107145         | 97688         | 2.58%           | 0.557%        |
| 35        | 11.775      | 3606          | 3611        | 3619         | rVB2     | 233068         | 278456        | 7.35%           | 1.587%        |
| 36        | 12.044      | 3687          | 3694        | 3701         | rVB4     | 86485          | 92519         | 2.44%           | 0.527%        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042199.D  
Acq On : 28 Mar 2025 02:33  
Operator : SY/MD  
Sample : Q1669-08  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 37 | 12.086 | 3701 | 3707 | 3712 | rBV2 | 40533  | 43859  | 1.16%  | 0.250% |
| 38 | 12.228 | 3744 | 3751 | 3755 | rBV2 | 181885 | 207903 | 5.49%  | 1.185% |
| 39 | 12.254 | 3755 | 3759 | 3770 | rVB2 | 149433 | 166998 | 4.41%  | 0.952% |
| 40 | 12.442 | 3810 | 3817 | 3831 | rVB2 | 157523 | 215256 | 5.68%  | 1.227% |
| 41 | 12.510 | 3831 | 3838 | 3844 | rBV2 | 72950  | 84717  | 2.24%  | 0.483% |
| 42 | 12.646 | 3873 | 3880 | 3886 | rBV4 | 111772 | 141877 | 3.74%  | 0.809% |
| 43 | 12.685 | 3886 | 3892 | 3902 | rVB8 | 49219  | 79174  | 2.09%  | 0.451% |
| 44 | 12.827 | 3929 | 3936 | 3941 | rBV5 | 43284  | 49523  | 1.31%  | 0.282% |
| 45 | 12.876 | 3944 | 3951 | 3958 | rVV3 | 99108  | 113760 | 3.00%  | 0.649% |
| 46 | 12.931 | 3958 | 3968 | 3975 | rVB3 | 42946  | 55290  | 1.46%  | 0.315% |
| 47 | 12.992 | 3980 | 3987 | 4001 | rVB5 | 50031  | 87190  | 2.30%  | 0.497% |
| 48 | 13.387 | 4100 | 4109 | 4117 | rBV  | 545624 | 567577 | 14.98% | 3.236% |

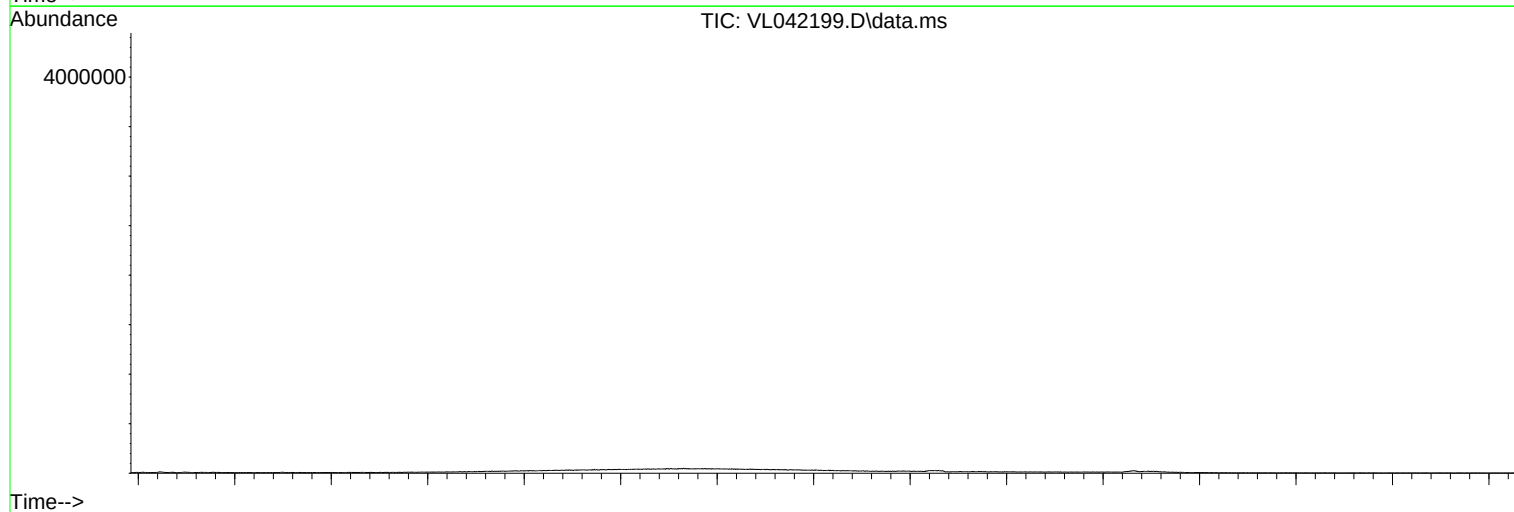
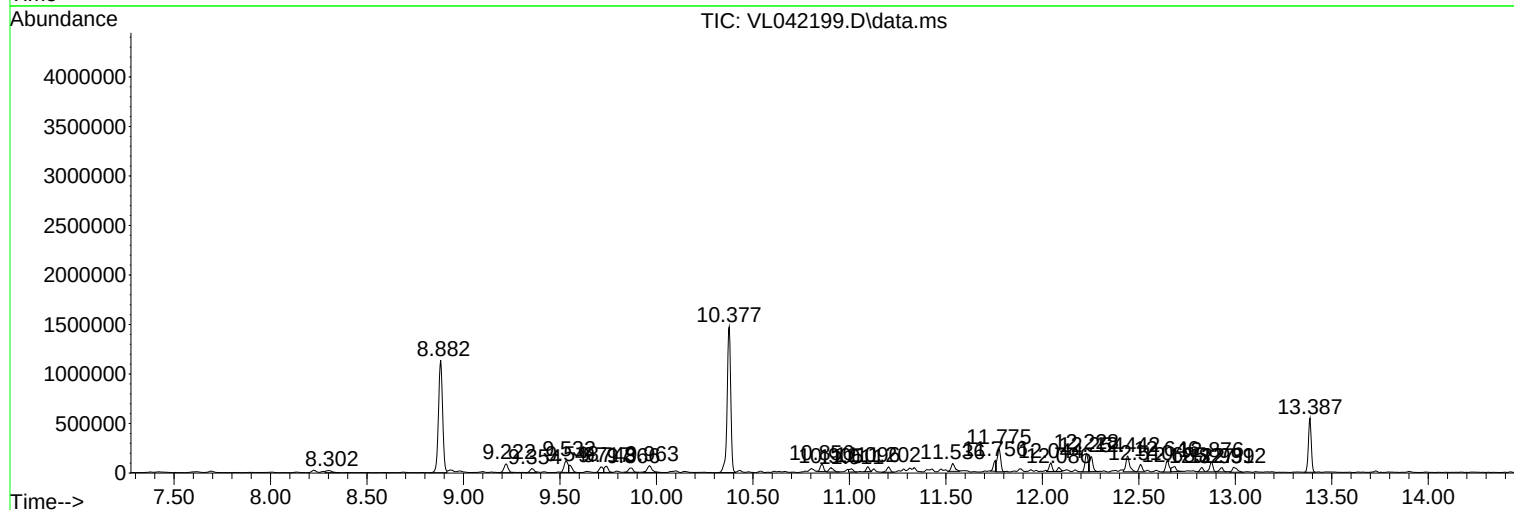
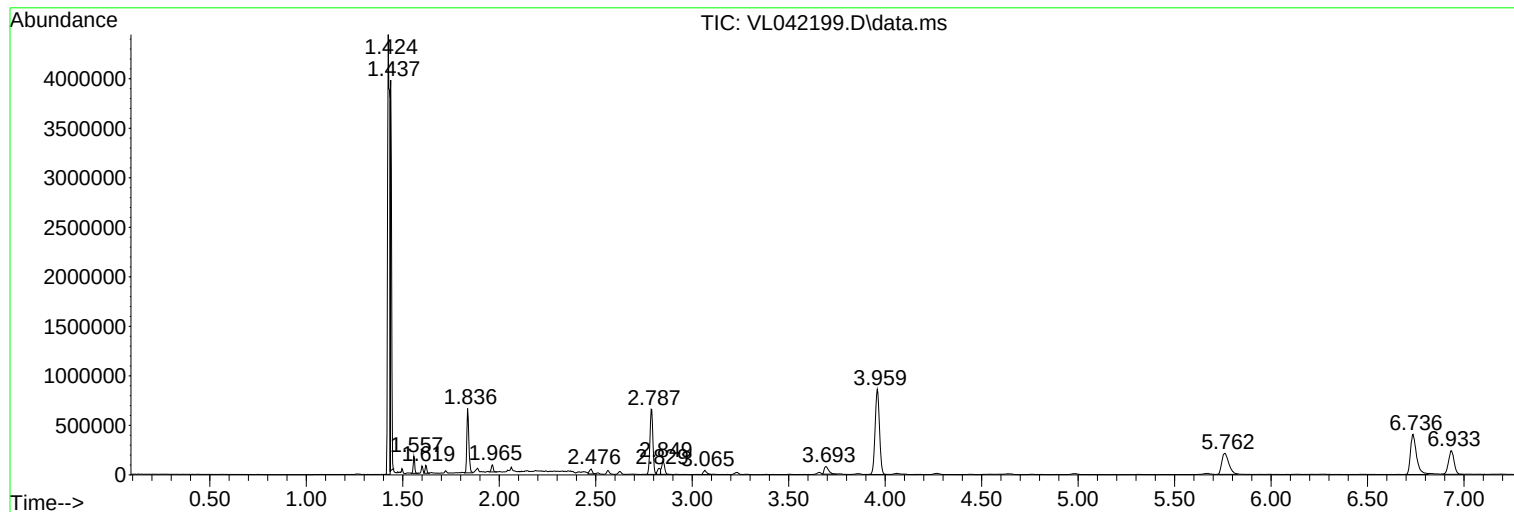
Sum of corrected areas: 17541669

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042199.D  
Acq On : 28 Mar 2025 02:33  
Operator : SY/MD  
Sample : Q1669-08  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042199.D  
Acq On : 28 Mar 2025 02:33  
Operator : SY/MD  
Sample : Q1669-08  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

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

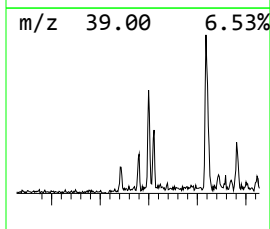
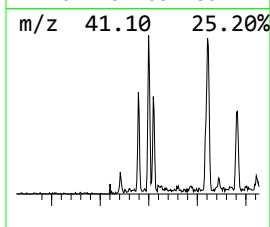
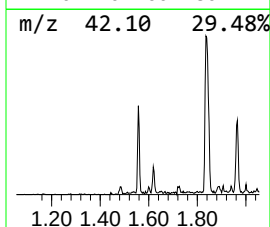
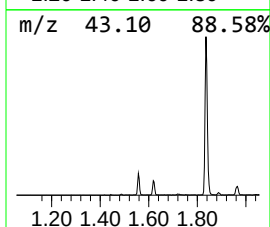
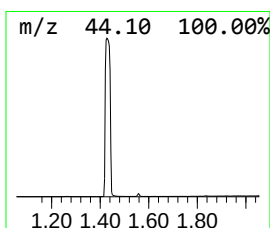
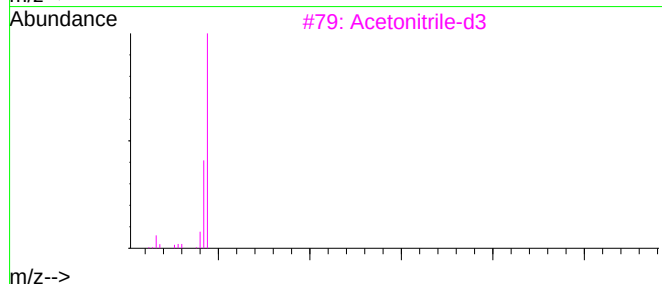
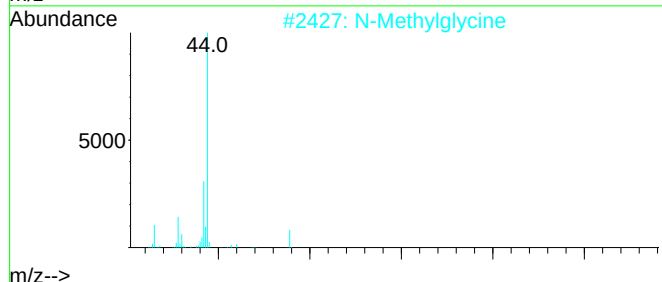
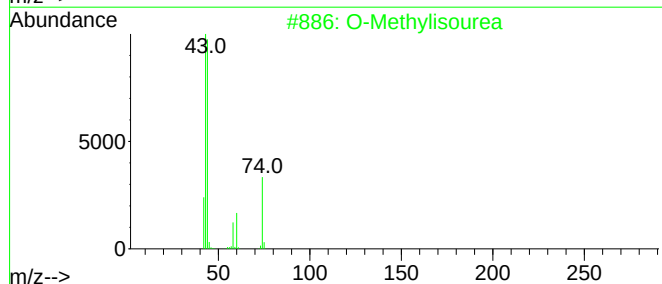
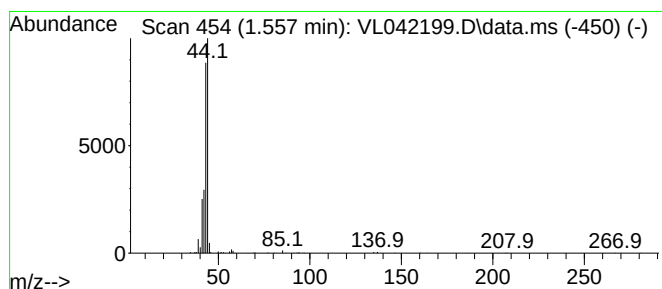
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown1.557 Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD   | R.T.  |
|-------|-----------|-------|--------------------|-------|
| 1.557 | 1.31 ppbv | 91164 | Bromochloromethane | 2.787 |

| Hit# of 5 | Tentative ID    | MW | MolForm | CAS#        | Qual |
|-----------|-----------------|----|---------|-------------|------|
| 1         | O-Methylisourea | 74 | C2H6N2O | 002440-60-0 | 43   |
| 2         | N-Methylglycine | 89 | C3H7NO2 | 000107-97-1 | 9    |
| 3         | Acetonitrile-d3 | 44 | C2D3N   | 002206-26-0 | 5    |
| 4         | Ethylene oxide  | 44 | C2H4O   | 000075-21-8 | 5    |
| 5         | Ethylene oxide  | 44 | C2H4O   | 000075-21-8 | 5    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042199.D  
Acq On : 28 Mar 2025 02:33  
Operator : SY/MD  
Sample : Q1669-08  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

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

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

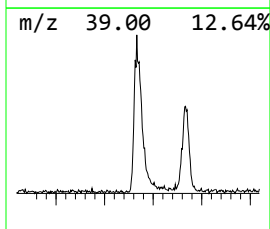
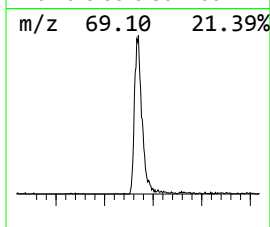
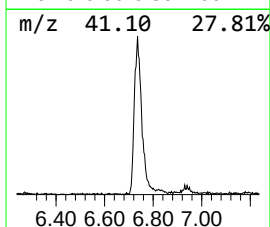
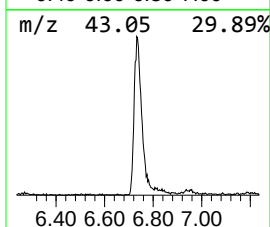
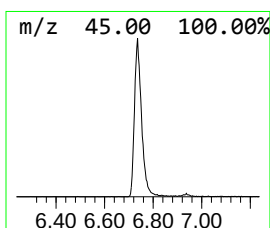
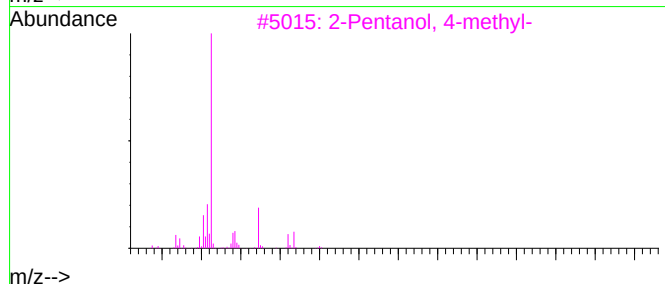
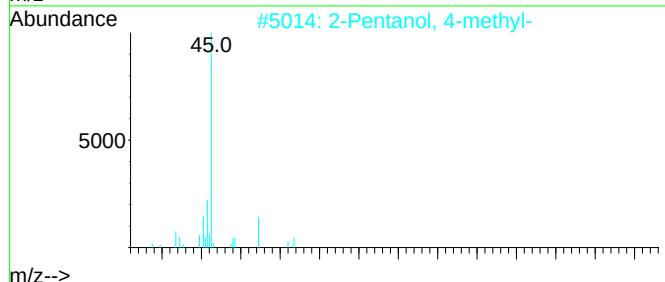
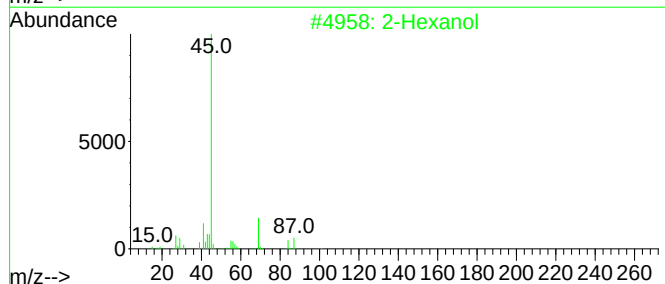
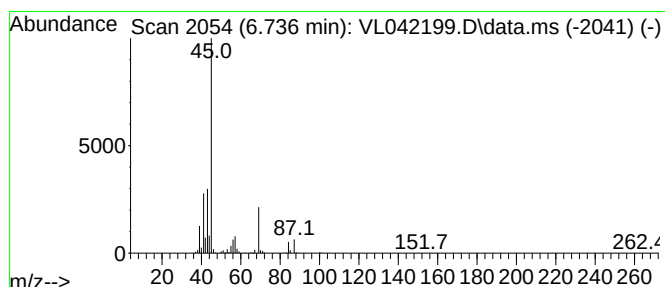
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Peak Number 2 2-Hexanol Concentration Rank 1

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 6.736 | 5.21 ppbv | 877662 | Chlorobenzene-d5 | 8.882 |

| Hit# of 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|-----------|-----------------------|-----|---------|-------------|------|
| 1         | 2-Hexanol             | 102 | C6H14O  | 000626-93-7 | 83   |
| 2         | 2-Pentanol, 4-methyl- | 102 | C6H14O  | 000108-11-2 | 83   |
| 3         | 2-Pentanol, 4-methyl- | 102 | C6H14O  | 000108-11-2 | 83   |
| 4         | 2-Octanol, (R)-       | 130 | C8H18O  | 005978-70-1 | 78   |
| 5         | 2-Octanol, (S)-       | 130 | C8H18O  | 006169-06-8 | 78   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042199.D  
Acq On : 28 Mar 2025 02:33  
Operator : SY/MD  
Sample : Q1669-08  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

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

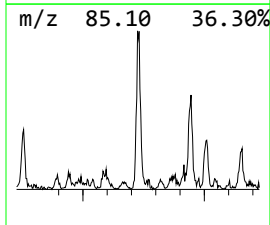
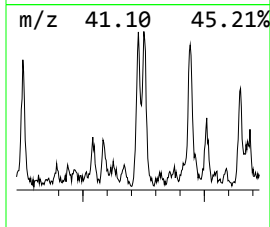
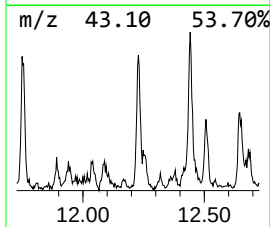
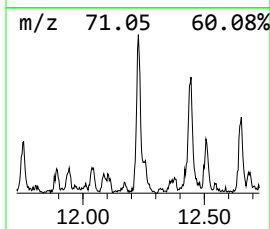
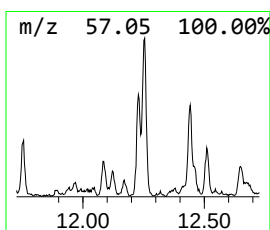
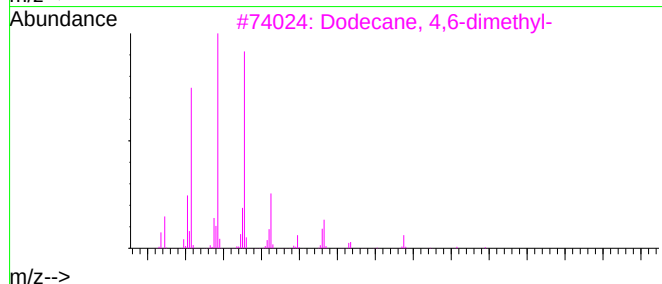
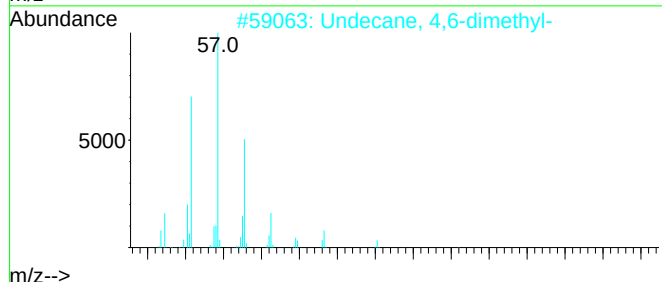
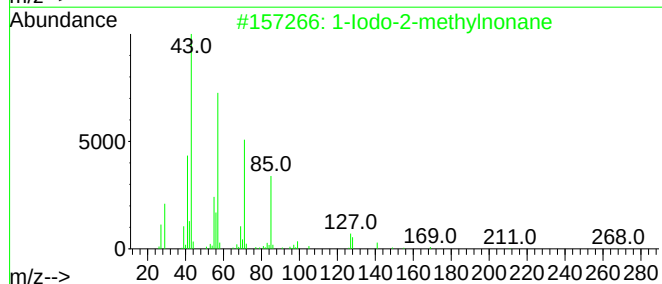
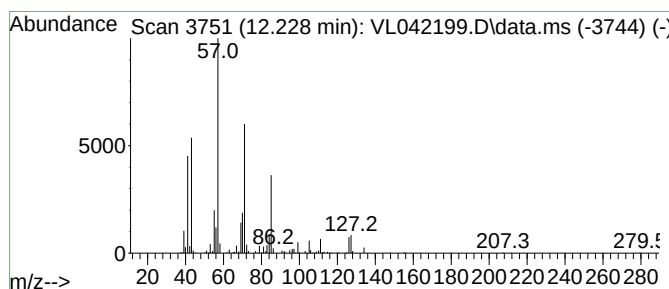
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

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Peak Number 4 1-Iodo-2-methylnonane Concentration Rank 6

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------|--------|------------------|--------------|------|
| 12.228    | 1.23 ppbv               | 207903 | Chlorobenzene-d5 | 8.882        |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#         | Qual |
| 1         | 1-Iodo-2-methylnonane   | 268    | C10H21I          | 1000101-47-9 | 72   |
| 2         | Undecane, 4,6-dimethyl- | 184    | C13H28           | 017312-82-2  | 72   |
| 3         | Dodecane, 4,6-dimethyl- | 198    | C14H30           | 061141-72-8  | 64   |
| 4         | Undecane, 3,8-dimethyl- | 184    | C13H28           | 017301-30-3  | 64   |
| 5         | Hexadecane              | 226    | C16H34           | 000544-76-3  | 59   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042199.D  
Acq On : 28 Mar 2025 02:33  
Operator : SY/MD  
Sample : Q1669-08  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

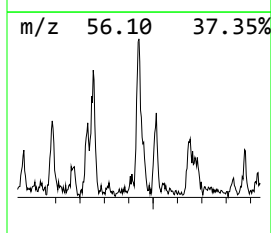
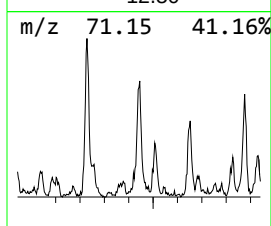
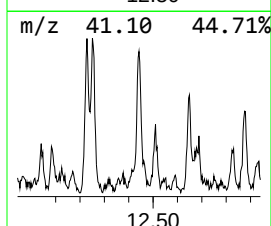
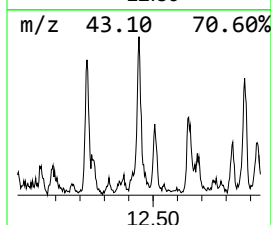
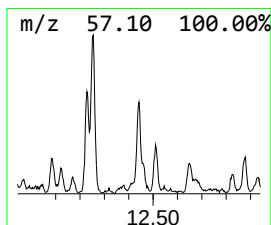
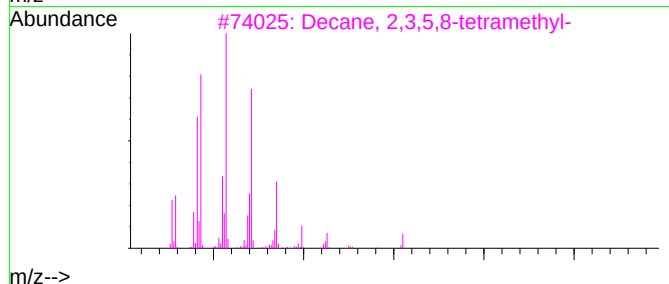
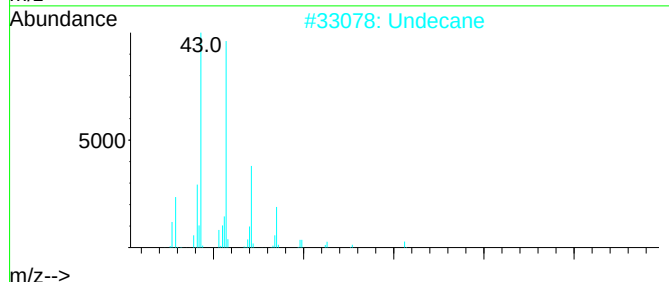
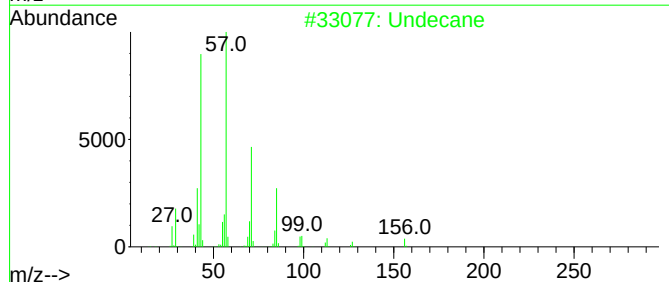
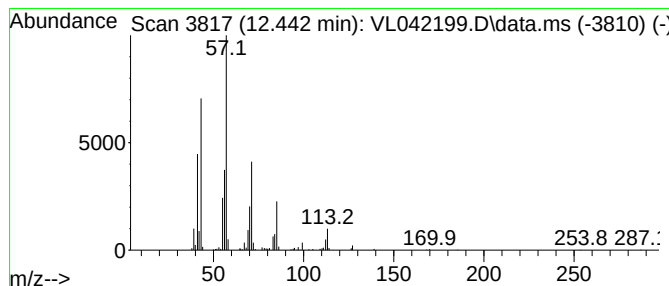
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

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

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Peak Number 5 Undecane Concentration Rank 5

| R.T.      | EstConc                      | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------------------|--------|------------------|-------------|------|
| 12.442    | 1.28 ppbv                    | 215256 | Chlorobenzene-d5 | 8.882       |      |
| Hit# of 5 | Tentative ID                 | MW     | MolForm          | CAS#        | Qual |
| 1         | Undecane                     | 156    | C11H24           | 001120-21-4 | 59   |
| 2         | Undecane                     | 156    | C11H24           | 001120-21-4 | 59   |
| 3         | Decane, 2,3,5,8-tetramethyl- | 198    | C14H30           | 192823-15-7 | 53   |
| 4         | Tridecane                    | 184    | C13H28           | 000629-50-5 | 53   |
| 5         | Decane, 6-ethyl-2-methyl-    | 184    | C13H28           | 062108-21-8 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042199.D  
Acq On : 28 Mar 2025 02:33  
Operator : SY/MD  
Sample : Q1669-08  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

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

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

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|-------|---------|------|
|                    |        |         |       |          | #                     | RT    | Resp    | Conc |
| unknown1.557       | 1.557  | 1.3     | ppbv  | 91164    | 1                     | 2.787 | 696628  | 10.0 |
| 2-Hexanol          | 6.736  | 5.2     | ppbv  | 877662   | 3                     | 8.882 | 1684920 | 10.0 |
| 1-Iodo-2-methyl... | 12.228 | 1.2     | ppbv  | 207903   | 3                     | 8.882 | 1684920 | 10.0 |
| Undecane           | 12.442 | 1.3     | ppbv  | 215256   | 3                     | 8.882 | 1684920 | 10.0 |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | AA-2-3262025                                    | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-09                                        | 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 |
| VL042189.D        | 1         |           | 03/27/25 20:48 | VL032725      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.45          | 2.23           | J         | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.44          | 0.91           | 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         | 0.22          | 1.24           | 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                        | 2.50          | 5.94           |           | 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             | 7.00          | 24.3           |           | 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                     | 0.18          | 0.53           | 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                        | 0.13          | 0.42           | J         | 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                        | 0.34          | 1.28           | 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:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | AA-2-3262025                                    | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-09                                        | 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 |
| VL042189.D        | 1         |           | 03/27/25 20:48 | VL032725      |

| 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    | 0.29          | 1.43           | 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                    | 4.50          | 15.9           |           | 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   | 9.90          |                |           | 70 (65) - 130 (135) | 99%        | SPK: 10 |
| <b>INTERNAL STANDARDS</b>             |                           |               |                |           |                     |            |         |
| 74-97-5                               | Bromochloromethane        | 185000        |                | 2.787     |                     |            |         |
| 540-36-3                              | 1,4-Difluorobenzene       | 523000        |                | 3.962     |                     |            |         |
| 3114-55-4                             | Chlorobenzene-d5          | 477000        |                | 8.882     |                     |            |         |
| <b>TENTITIVE IDENTIFIED COMPOUNDS</b> |                           |               |                |           |                     |            |         |
| 75-45-6                               | Chlorodifluoromethane     | 0.43          |                | J         |                     | 1.48       | ppbv    |
| 115-07-1                              | Propene                   | 0.29          |                | J         |                     | 1.49       | ppbv    |

## Report of Analysis

|                    |                                                 |                 |          |
|--------------------|-------------------------------------------------|-----------------|----------|
| Client:            | Woodard & Curran                                | Date Collected: | 03/26/25 |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  | 03/27/25 |
| Client Sample ID:  | AA-2-3262025                                    | SDG No.:        | Q1669    |
| Lab Sample ID:     | Q1669-09                                        | 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 |
| VL042189.D        | 1         |           | 03/27/25 20:48 | VL032725      |

| CAS Number  | Parameter             | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|-------------|-----------------------|---------------|----------------|-----------|-----|------------|-------|
| 000096-14-0 | Pentane, 3-methyl-    | 1.20          |                | J         |     | 2.63       | ppbv  |
| 000096-37-7 | Cyclopentane, methyl- | 1.40          |                | J         |     | 3.23       | ppbv  |

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\VL032725\  
 Data File : VL042189.D  
 Acq On : 27 Mar 2025 20:48  
 Operator : SY/MD  
 Sample : Q1669-09  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AA-2-3262025

Quant Time: Mar 28 02:17:14 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 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.787  | 49    | 185013   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.962  | 114   | 523099   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.882  | 117   | 477151   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 387301   | 9.884    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 98.800%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.499  | 85    | 12204    | 0.447    | ppbv   | 100      |
| 3) Chlorodifluoromethane    | 1.476  | 51    | 11994    | 0.430    | ppbv # | 85       |
| 4) Chloromethane            | 1.531  | 50    | 4911     | 0.440    | ppbv   | 91       |
| 9) Propene                  | 1.486  | 41    | 3674m    | 0.287    | ppbv   |          |
| 11) Trichlorofluoromethane  | 1.878  | 101   | 5874     | 0.221    | ppbv   | 88       |
| 13) Ethanol                 | 1.722  | 45    | 10166    | 8.407    | ppbv # | 27       |
| 15) Acetone                 | 1.835  | 43    | 63981    | 2.473    | ppbv   | 97       |
| 20) Methylene Chloride      | 2.062  | 84    | 67627    | 7.018    | ppbv   | 95       |
| 26) Hexane                  | 2.826  | 57    | 116880   | 4.506    | ppbv # | 31       |
| 34) 2-Butanone              | 2.567  | 43    | 6879     | 0.181    | ppbv   | 96       |
| 35) Carbon Tetrachloride    | 3.764  | 117   | 2968m    | 0.073    | ppbv   |          |
| 36) Benzene                 | 3.654  | 78    | 6925     | 0.134    | ppbv # | 90       |
| 53) Toluene                 | 6.933  | 91    | 20704    | 0.337    | ppbv   | 99       |
| 59) m/p-Xylene              | 9.532  | 91    | 7256m    | 0.107    | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene  | 11.539 | 105   | 24773    | 0.291    | ppbv # | 65       |

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

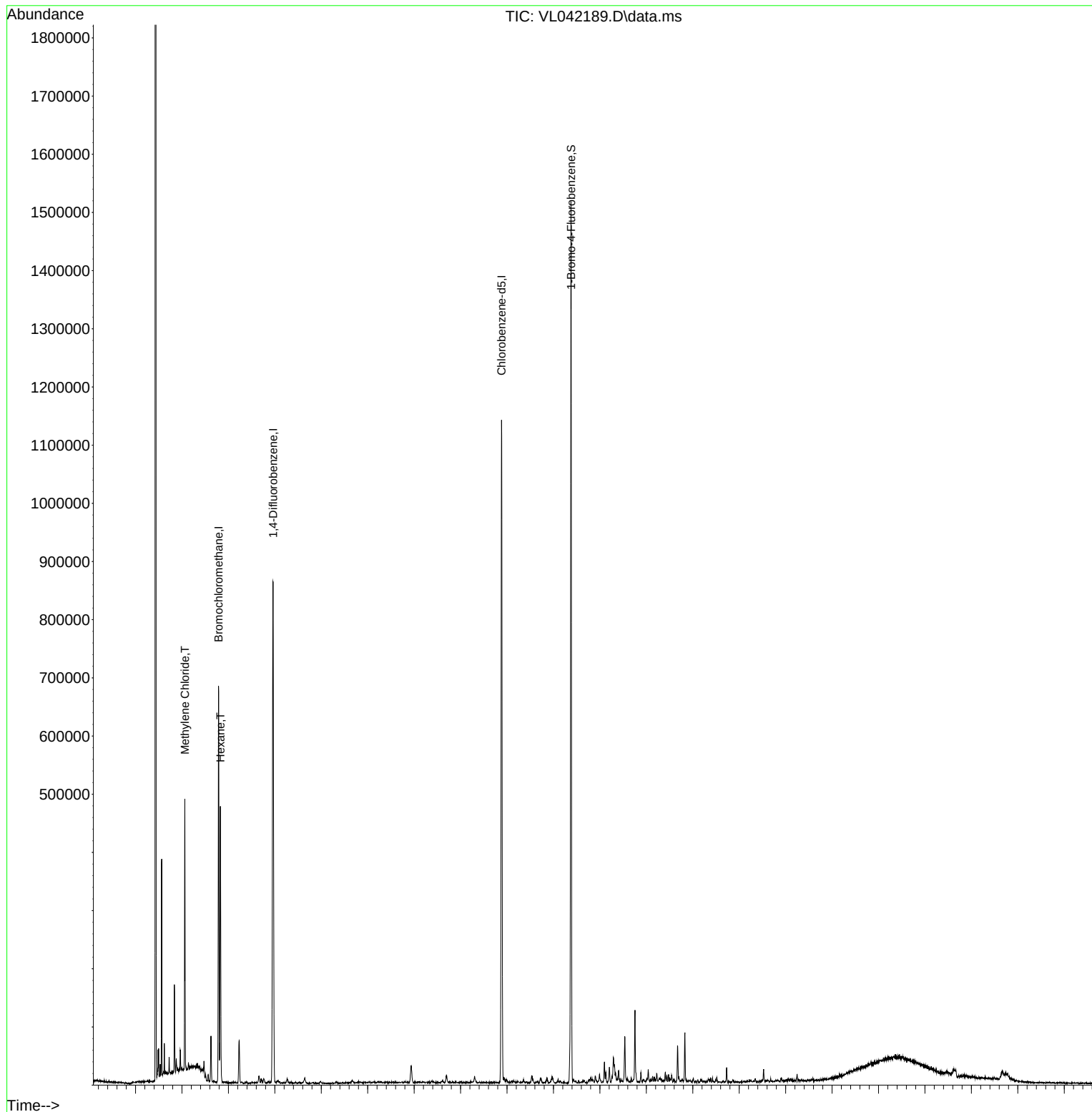
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Data File : VL042189.D  
Acq On : 27 Mar 2025 20:48  
Operator : SY/MD  
Sample : Q1669-09  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

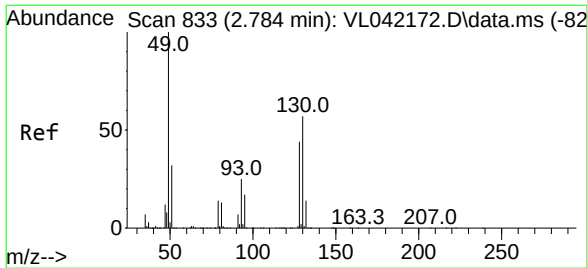
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

Quant Time: Mar 28 02:17:14 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 02:00:52 2025  
Response via : Initial Calibration

Manual Integrations  
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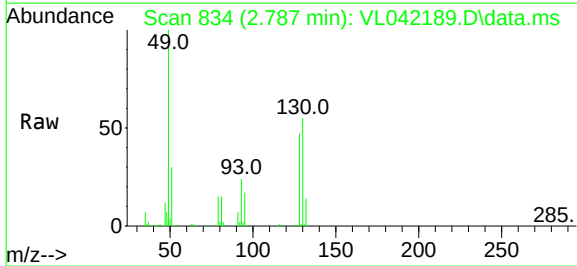
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 833  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

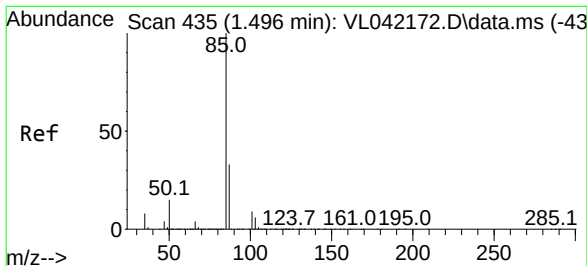
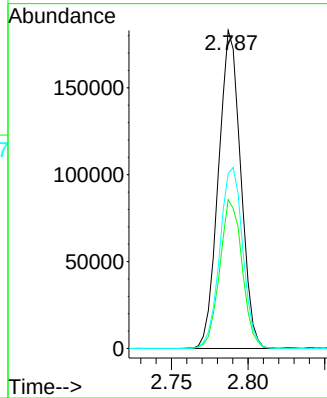
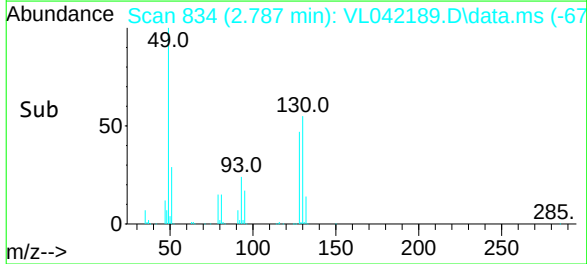
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025



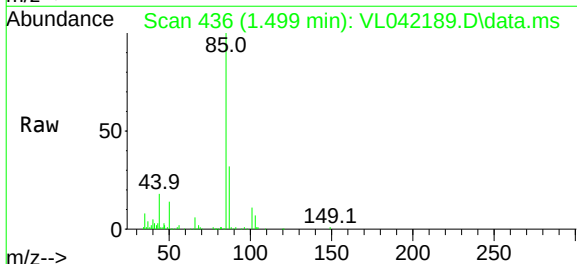
Tgt Ion: 49 Resp: 185013  
Ion Ratio Lower Upper  
49 100  
128 47.0 22.9 68.5  
130 58.7 28.8 86.4

Manual Integrations  
APPROVED

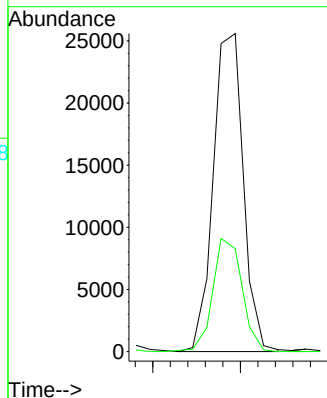
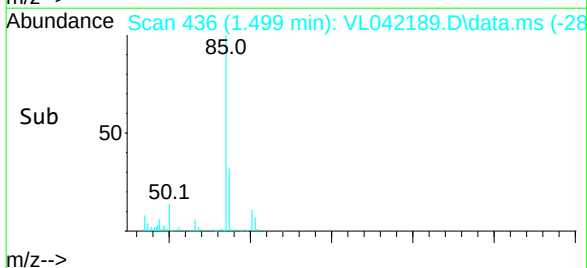
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



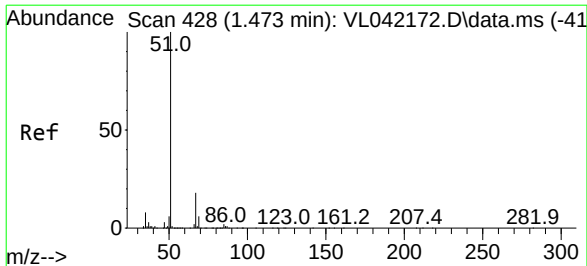
#2  
Dichlorodifluoromethane  
Concen: 0.447 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48



Tgt Ion: 85 Resp: 12204  
Ion Ratio Lower Upper  
85 100  
87 32.3 26.1 39.1

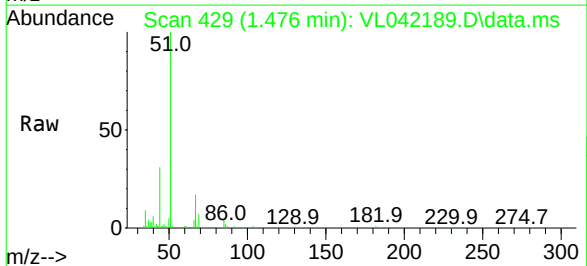






#3  
Chlorodifluoromethane  
Concen: 0.430 ppbv  
RT: 1.476 min Scan# 428  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

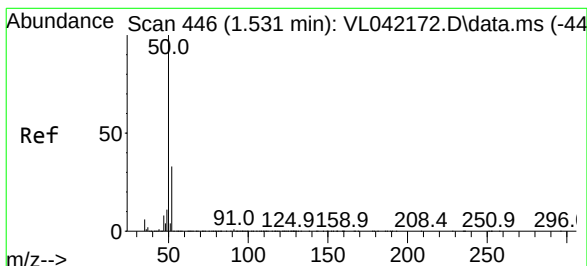
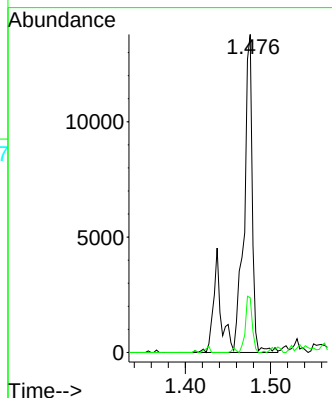
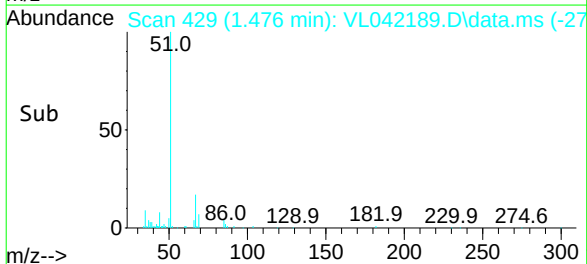
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025



Tgt Ion: 51 Resp: 11994  
Ion Ratio Lower Upper  
51 100  
67 12.0 15.0 22.6

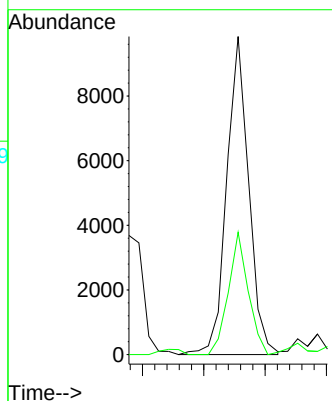
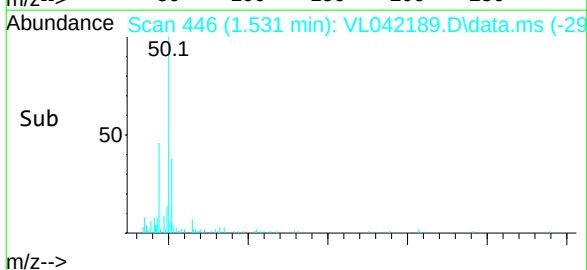
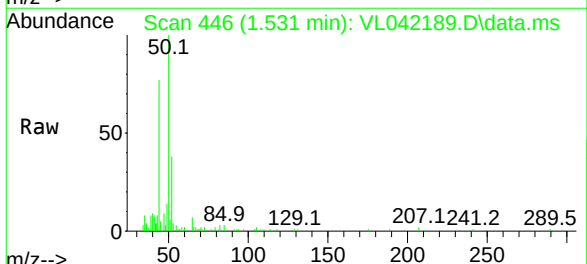
Manual Integrations  
APPROVED

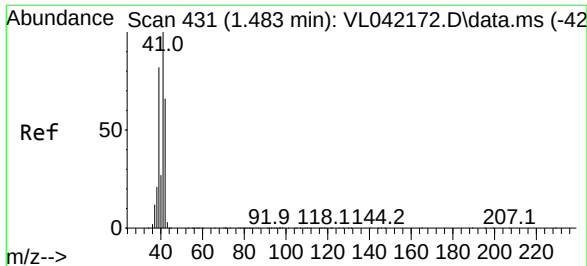
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#4  
Chloromethane  
Concen: 0.440 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Tgt Ion: 50 Resp: 4911  
Ion Ratio Lower Upper  
50 100  
52 37.7 26.1 39.1





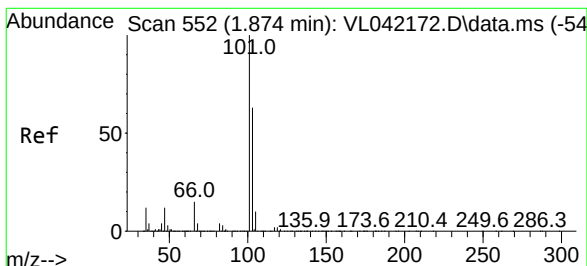
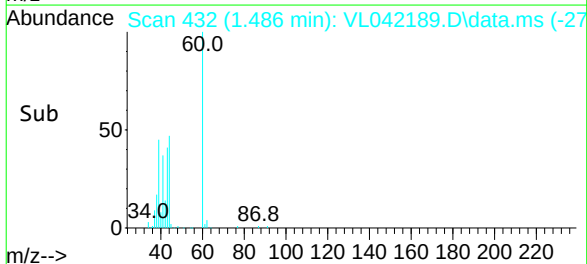
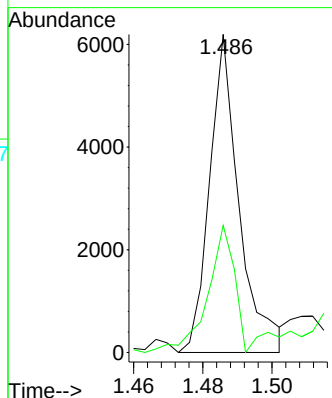
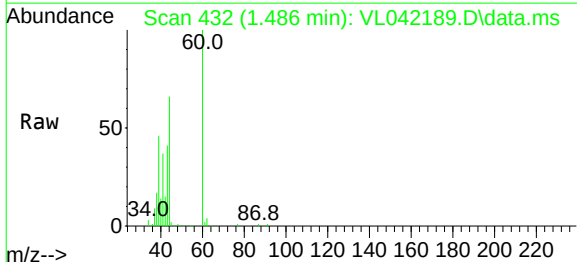
#9  
 Propene  
 Concen: 0.287 ppbv m  
 RT: 1.486 min Scan# 431  
 Delta R.T. 0.003 min  
 Lab File: VL042189.D  
 Acq: 27 Mar 2025 20:48

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AA-2-3262025

Tgt Ion: 41 Resp: 3674  
 Ion Ratio Lower Upper  
 41 100  
 42 96.0 55.4 83.2

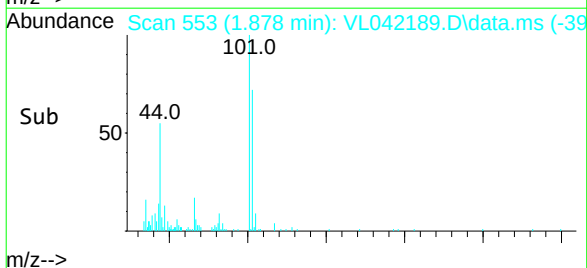
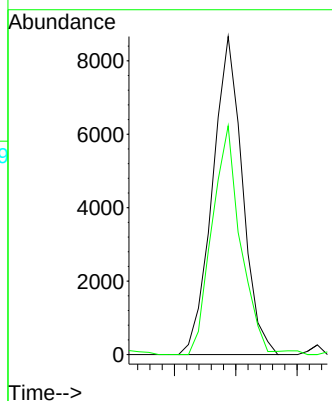
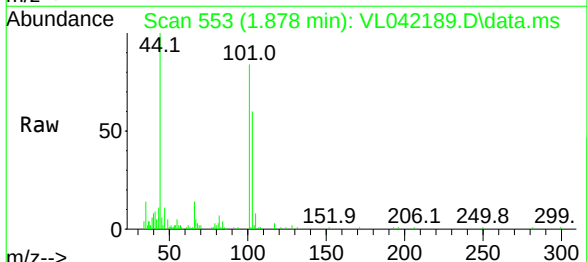
Manual Integrations  
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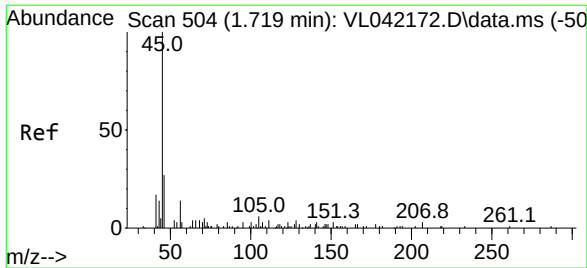
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#11  
 Trichlorofluoromethane  
 Concen: 0.221 ppbv  
 RT: 1.878 min Scan# 553  
 Delta R.T. 0.003 min  
 Lab File: VL042189.D  
 Acq: 27 Mar 2025 20:48

Tgt Ion:101 Resp: 5874  
 Ion Ratio Lower Upper  
 101 100  
 103 71.9 50.2 75.2





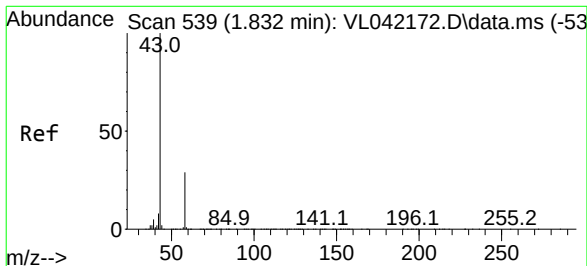
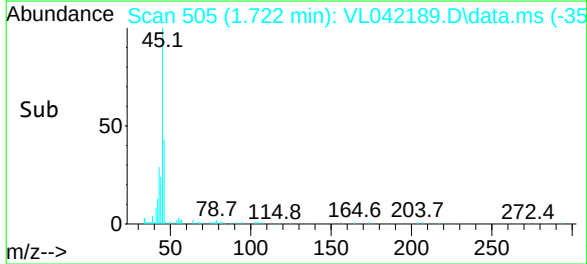
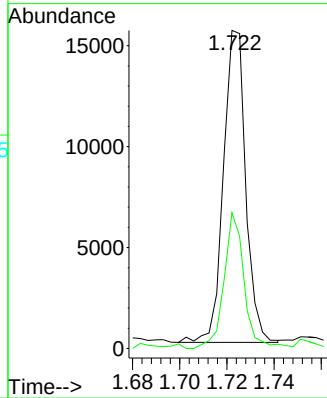
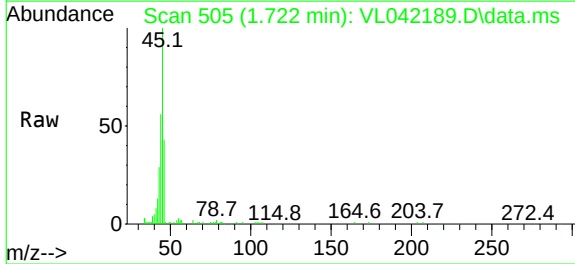
#13  
Ethanol  
Concen: 8.407 ppbv  
RT: 1.722 min Scan# 50  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

Tgt Ion: 45 Resp: 10166  
Ion Ratio Lower Upper  
45 100  
46 0.0 20.2 80.8#

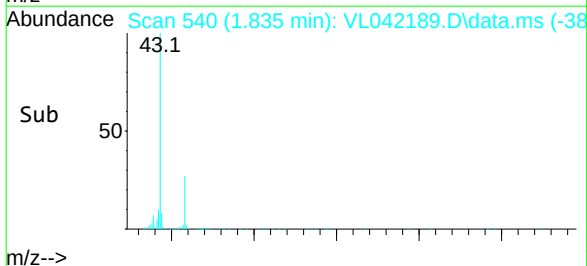
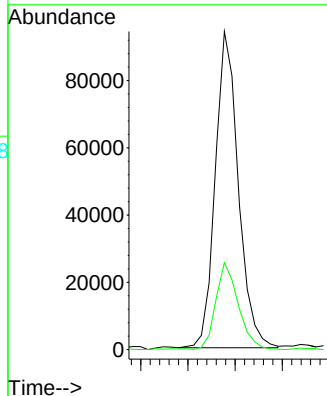
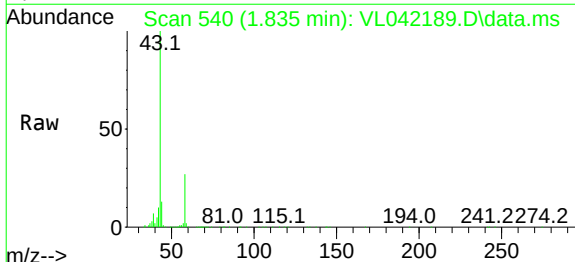
Manual Integrations  
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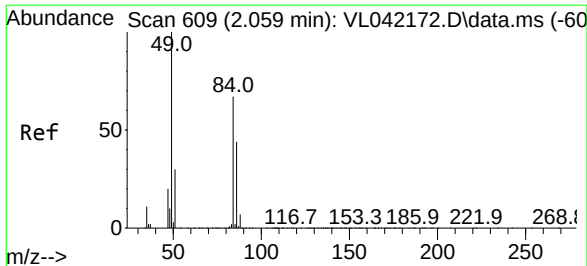
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#15  
Acetone  
Concen: 2.473 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

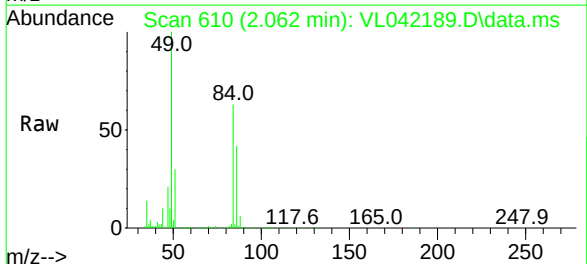
Tgt Ion: 43 Resp: 63981  
Ion Ratio Lower Upper  
43 100  
58 27.4 23.2 34.8





#20  
Methylene Chloride  
Concen: 7.018 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

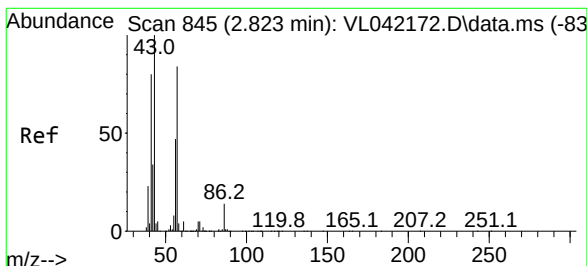
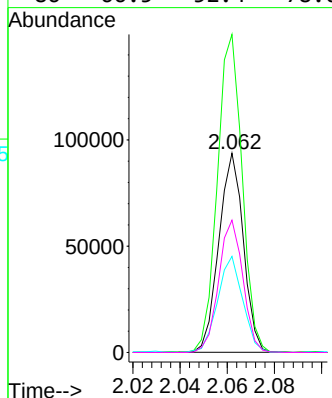
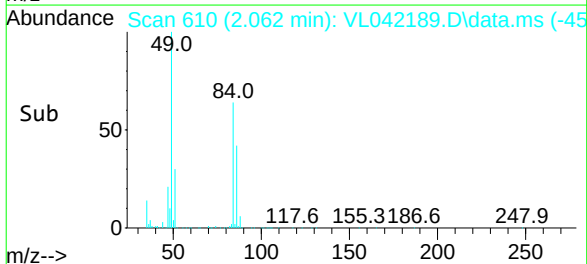
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025



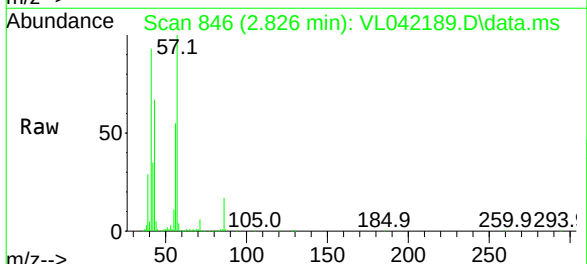
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 67627 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 159.6 | 120.2 | 180.4 |
| 51       | 48.2  | 37.4  | 56.0  |
| 86       | 66.5  | 52.4  | 78.6  |

Manual Integrations  
APPROVED

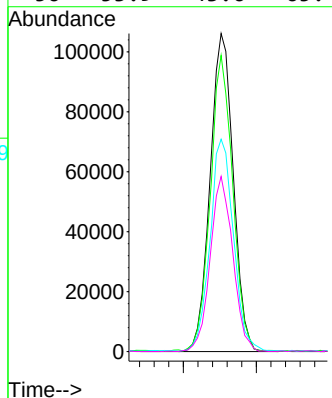
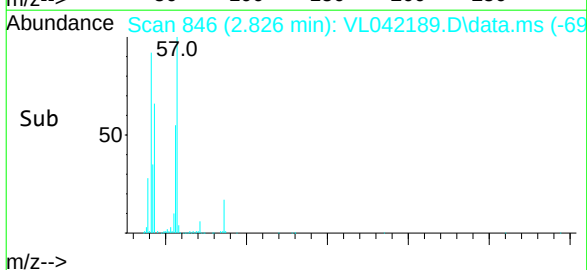
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

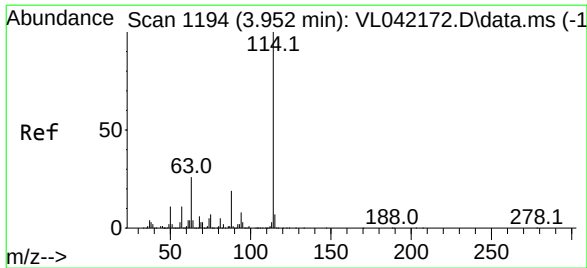


#26  
Hexane  
Concen: 4.506 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48



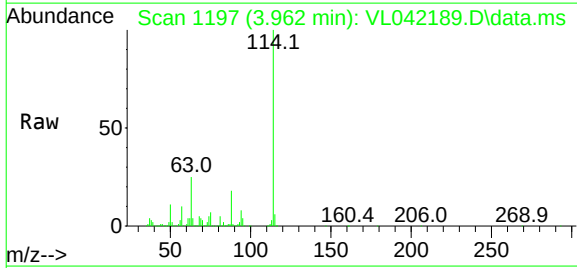
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 116880 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 90.1  | 76.6  | 114.8  |
| 43       | 68.0  | 207.8 | 311.8# |
| 56       | 53.9  | 43.6  | 65.4   |





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1194  
Delta R.T. 0.010 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

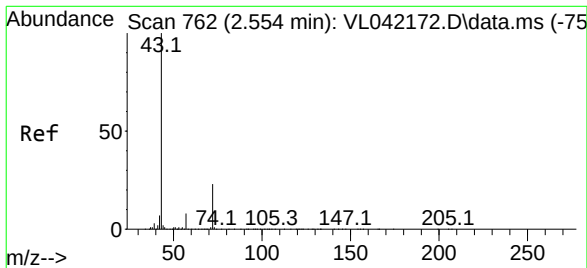
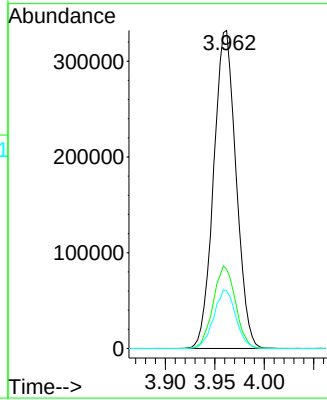
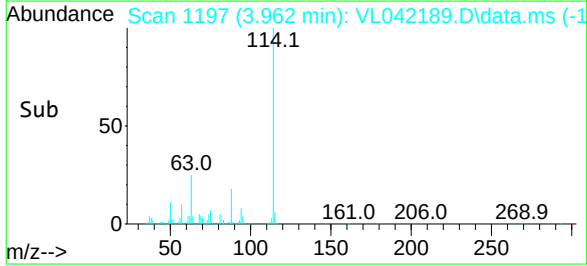
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025



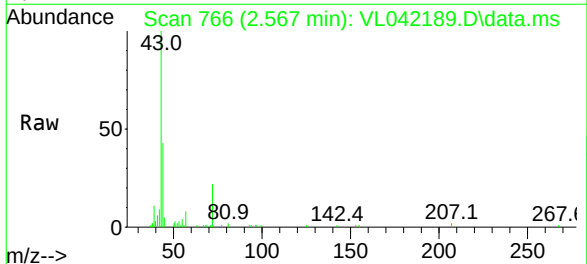
Tgt Ion: 114 Resp: 523099  
Ion Ratio Lower Upper  
114 100  
63 25.8 20.7 31.1  
88 18.1 15.0 22.4

Manual Integrations  
APPROVED

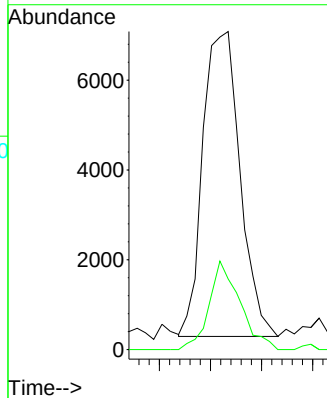
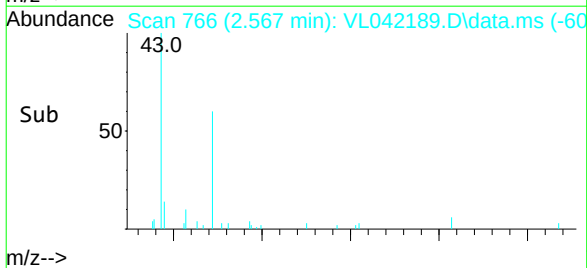
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

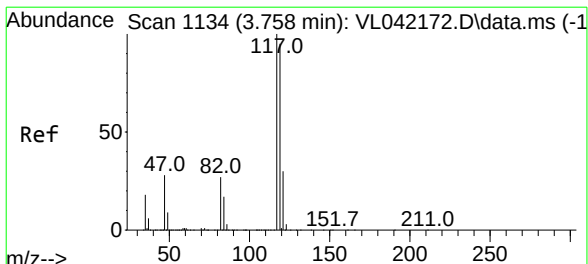


#34  
2-Butanone  
Concen: 0.181 ppbv  
RT: 2.567 min Scan# 766  
Delta R.T. 0.013 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48



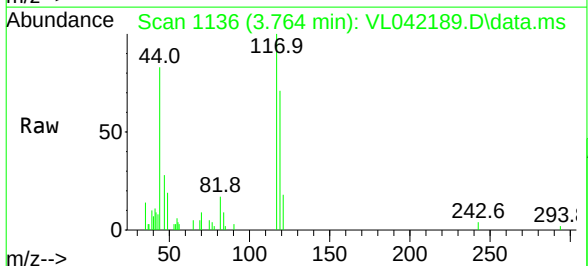
Tgt Ion: 43 Resp: 6879  
Ion Ratio Lower Upper  
43 100  
72 24.6 18.2 27.2





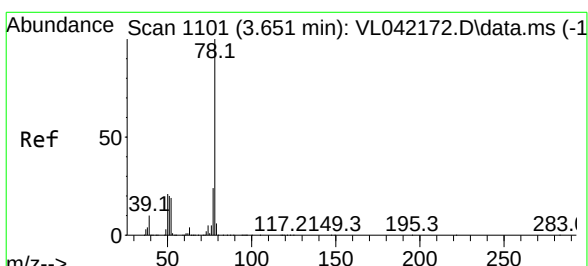
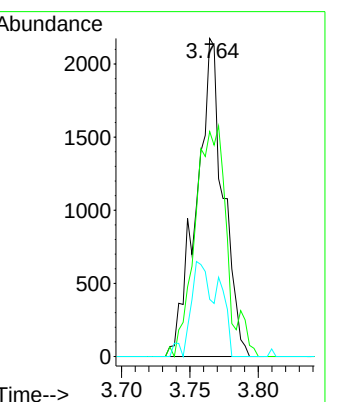
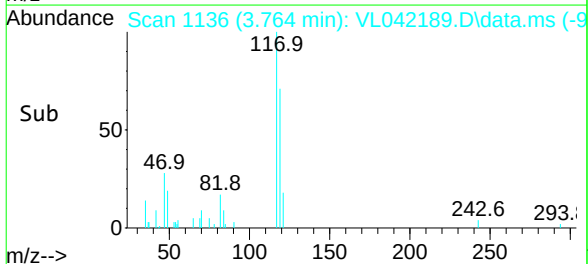
#35  
Carbon Tetrachloride  
Concen: 0.073 ppbv m  
RT: 3.764 min Scan# 1134  
Delta R.T. 0.006 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Instrument : MSVOA\_L  
ClientSampleId : AA-2-3262025

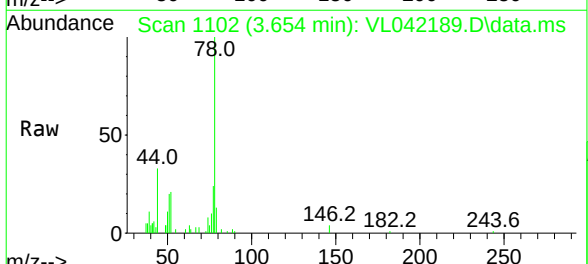


|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 2968   |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 70.7  | 76.2  | 114.2# |
| 121      | 18.0  | 24.2  | 36.4#  |

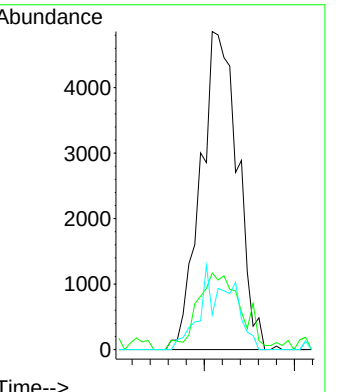
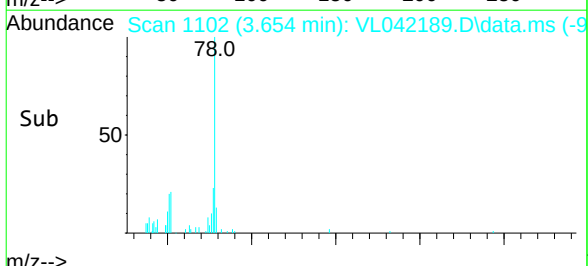
Manual Integrations  
**APPROVED**  
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

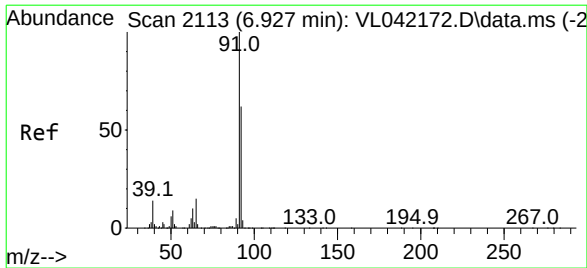


#36  
Benzene  
Concen: 0.134 ppbv  
RT: 3.654 min Scan# 1102  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 78    | Resp: | 6925  |
| Ion      | Ratio | Lower | Upper |
| 78       | 100   |       |       |
| 77       | 24.1  | 19.1  | 28.7  |
| 50       | 10.9  | 16.6  | 24.8# |





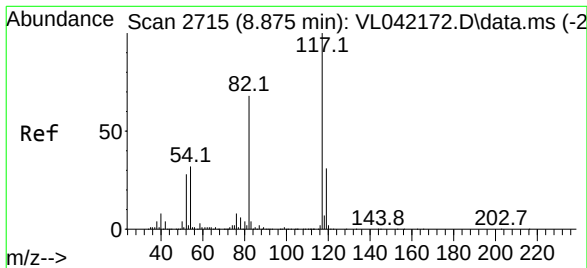
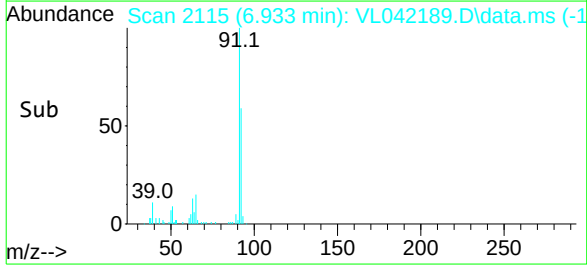
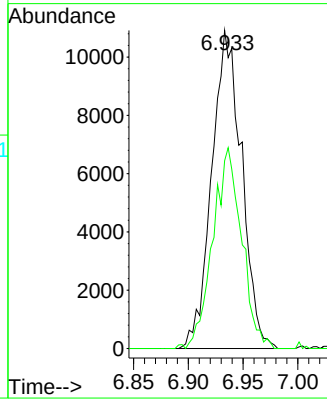
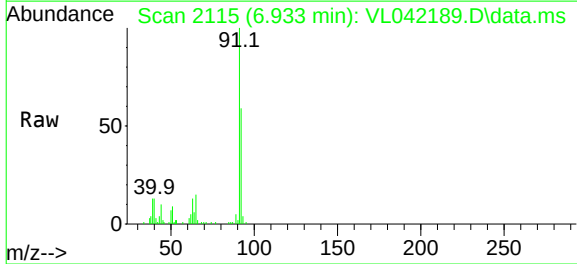
#53  
Toluene  
Concen: 0.337 ppbv  
RT: 6.933 min Scan# 2113  
Delta R.T. 0.006 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

Tgt Ion: 91 Resp: 20704  
Ion Ratio Lower Upper  
91 100  
92 60.9 48.4 72.6

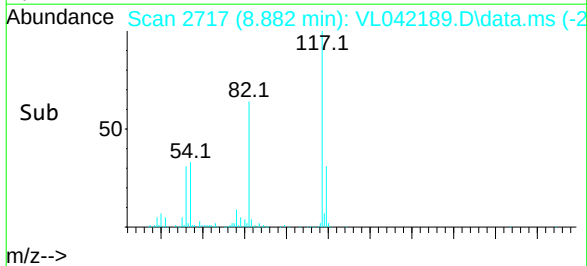
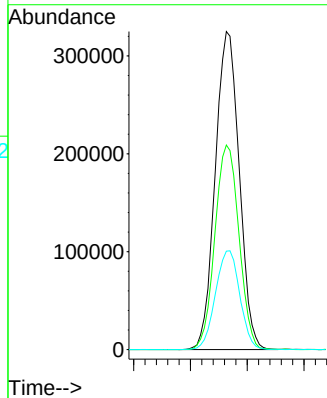
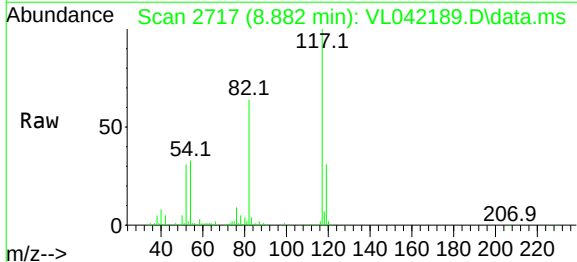
Manual Integrations  
APPROVED

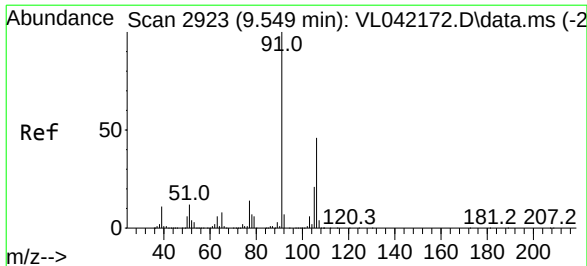
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 2717  
Delta R.T. 0.006 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

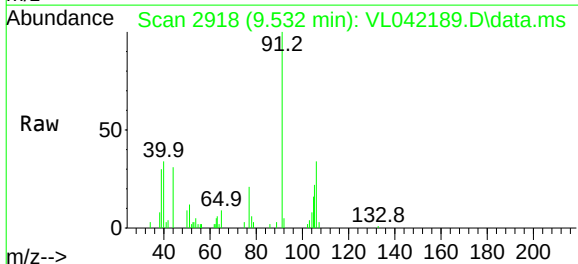
Tgt Ion:117 Resp: 477151  
Ion Ratio Lower Upper  
117 100  
82 64.6 55.8 83.6  
119 31.6 25.5 38.3





#59  
m/p-Xylene  
Concen: 0.107 ppbv m  
RT: 9.532 min Scan# 2918  
Delta R.T. -0.016 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

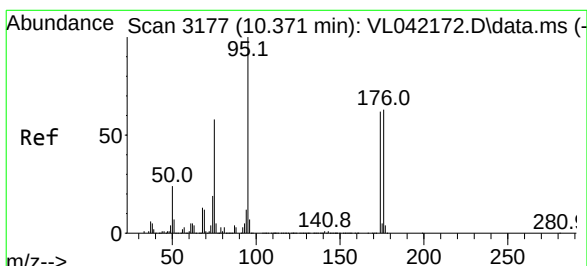
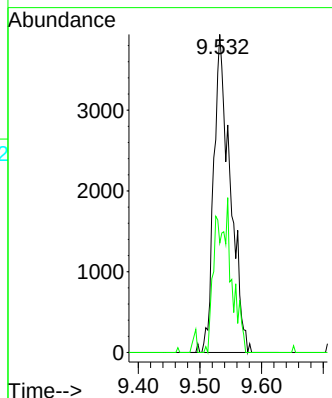
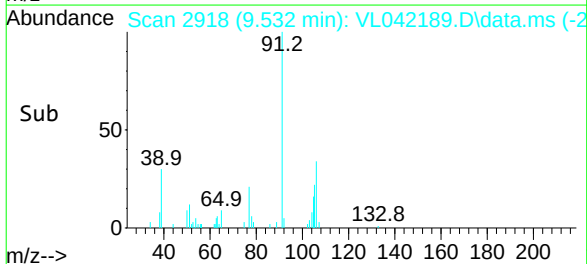
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025



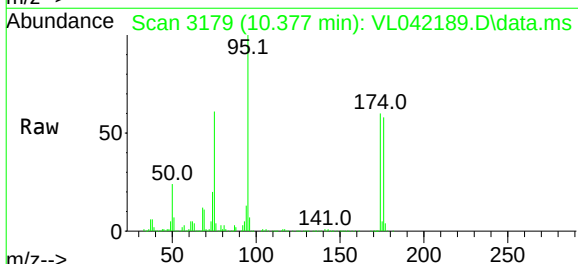
Tgt Ion: 91 Resp: 7256  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.4 54.6

Manual Integrations  
APPROVED

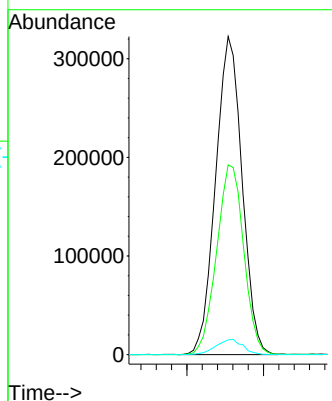
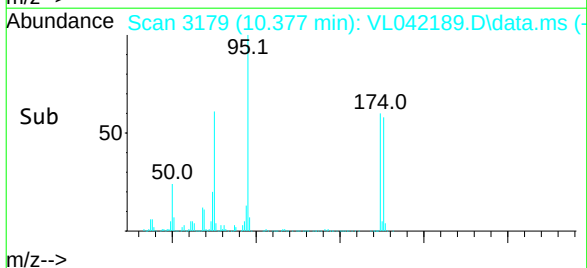
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



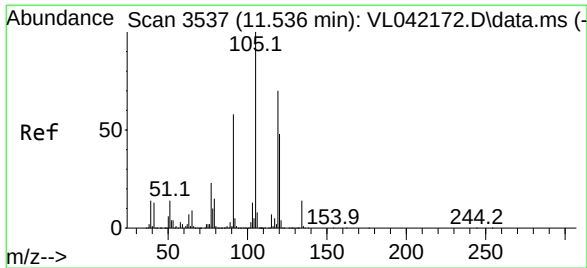
#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.884 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. 0.006 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48



Tgt Ion: 95 Resp: 387301  
Ion Ratio Lower Upper  
95 100  
174 61.0 50.6 76.0  
175 4.9 3.8 5.6

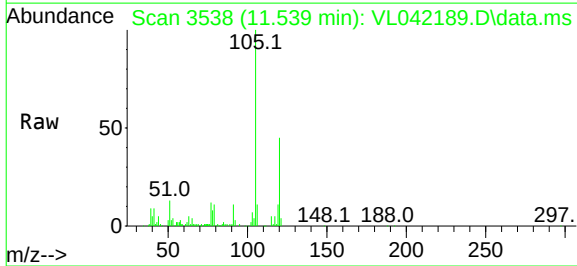






#74  
1,2,4-Trimethylbenzene  
Concen: 0.291 ppbv  
RT: 11.539 min Scan# 3537  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

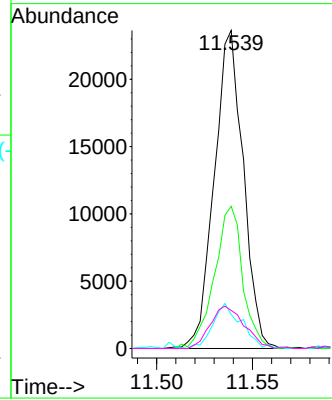
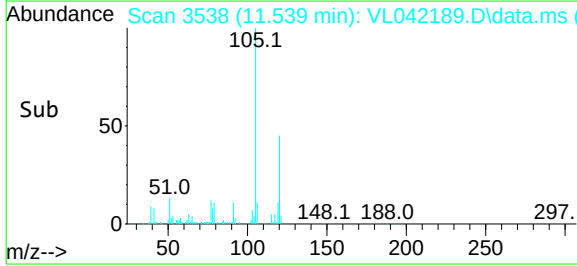
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025



|     |       |       |       |       |
|-----|-------|-------|-------|-------|
| Tgt | Ion   | 105   | Resp  | 24773 |
| Ion | Ratio | Lower | Upper |       |
| 105 | 100   |       |       |       |
| 120 | 44.7  | 38.6  | 58.0  |       |
| 91  | 10.5  | 46.2  | 69.2  | #     |
| 77  | 12.0  | 18.6  | 27.8  | #     |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042189.D  
Acq On : 27 Mar 2025 20:48  
Operator : SY/MD  
Sample : Q1669-09  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

Signal : TIC: VL042189.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.431       | 410           | 415         | 420          | rBV      | 4372856        | 4902725       | 100.00%         | 39.197%       |
| 2         | 1.564       | 449           | 456         | 462          | rBV      | 371951         | 232376        | 4.74%           | 1.858%        |
| 3         | 1.835       | 533           | 540         | 547          | rBV      | 151777         | 120543        | 2.46%           | 0.964%        |
| 4         | 2.062       | 604           | 610         | 619          | rVB      | 465144         | 344813        | 7.03%           | 2.757%        |
| 5         | 2.625       | 776           | 784         | 791          | rBV      | 78366          | 84853         | 1.73%           | 0.678%        |
| 6         | 2.787       | 822           | 834         | 840          | rBV      | 681877         | 717029        | 14.63%          | 5.733%        |
| 7         | 2.826       | 840           | 846         | 858          | rVB      | 474511         | 524144        | 10.69%          | 4.190%        |
| 8         | 3.230       | 963           | 971         | 982          | rVB3     | 72922          | 103610        | 2.11%           | 0.828%        |
| 9         | 3.959       | 1183          | 1196        | 1208         | rBV      | 861488         | 1376388       | 28.07%          | 11.004%       |
| 10        | 6.936       | 2104          | 2116        | 2130         | rVB3     | 29772          | 60982         | 1.24%           | 0.488%        |
| 11        | 8.882       | 2704          | 2717        | 2729         | rBV      | 1139477        | 1686276       | 34.39%          | 13.482%       |
| 12        | 10.377      | 3162          | 3179        | 3191         | rBV      | 1515292        | 1904749       | 38.85%          | 15.228%       |
| 13        | 11.290      | 3454          | 3461        | 3466         | rBV6     | 36425          | 50368         | 1.03%           | 0.403%        |
| 14        | 11.536      | 3525          | 3537        | 3546         | rBV2     | 78287          | 106931        | 2.18%           | 0.855%        |
| 15        | 11.756      | 3597          | 3605        | 3611         | rBV2     | 119348         | 126418        | 2.58%           | 1.011%        |
| 16        | 12.672      | 3876          | 3888        | 3897         | rBV3     | 63094          | 78936         | 1.61%           | 0.631%        |
| 17        | 12.830      | 3928          | 3937        | 3943         | rBV      | 83941          | 86911         | 1.77%           | 0.695%        |

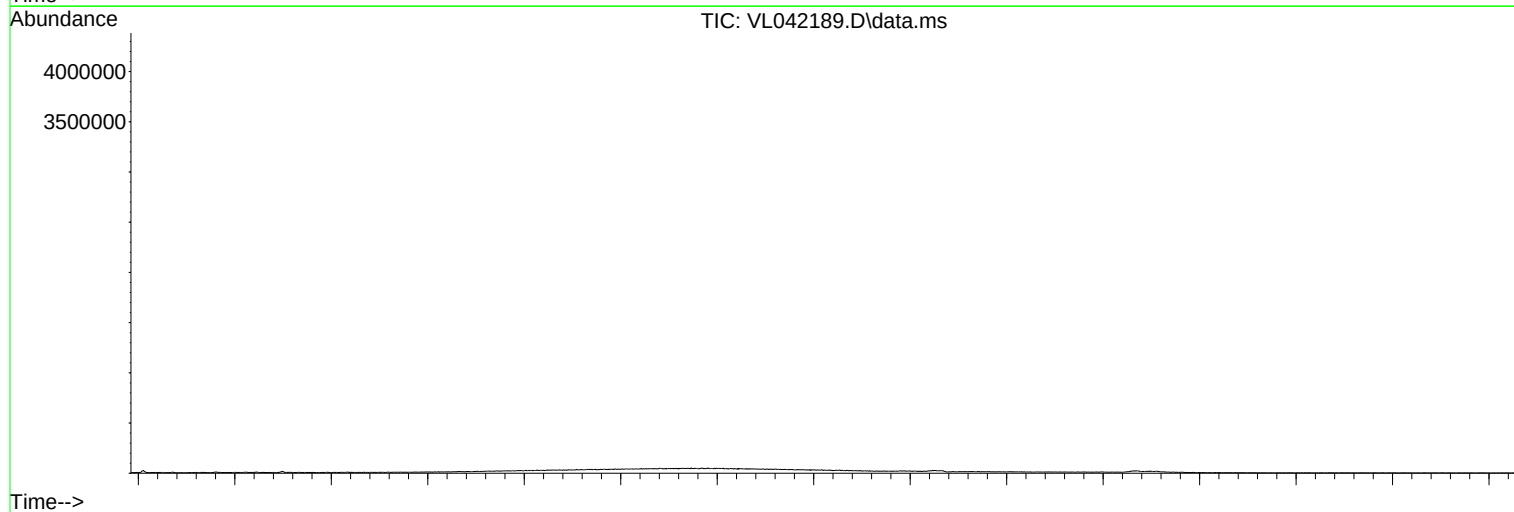
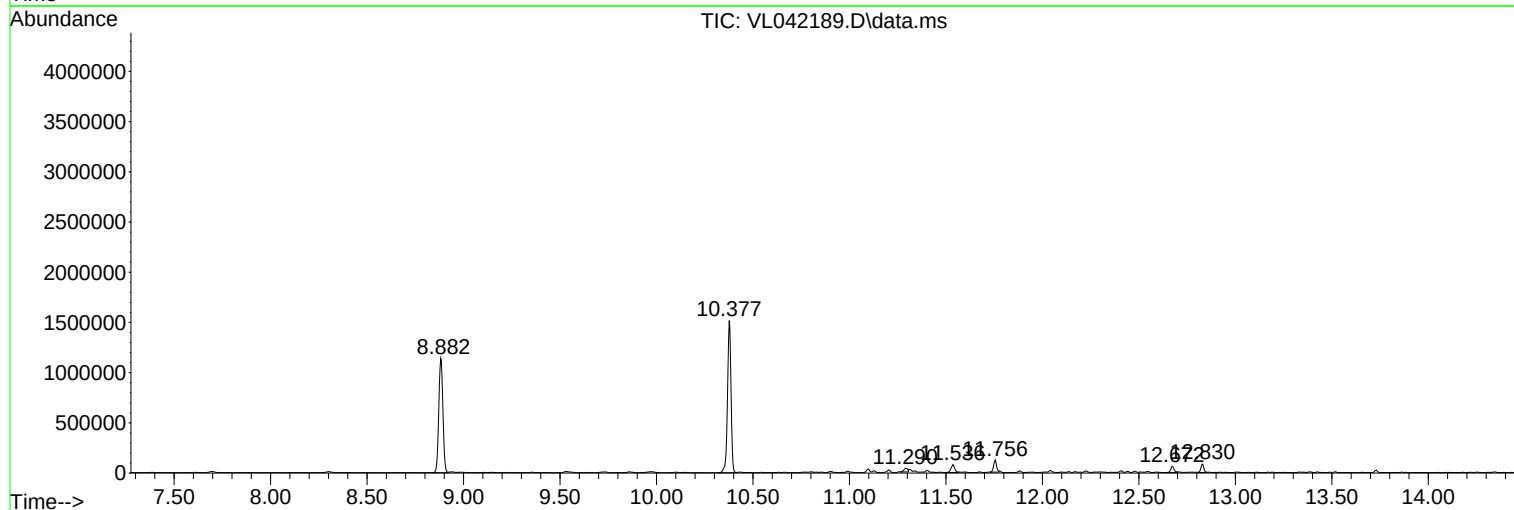
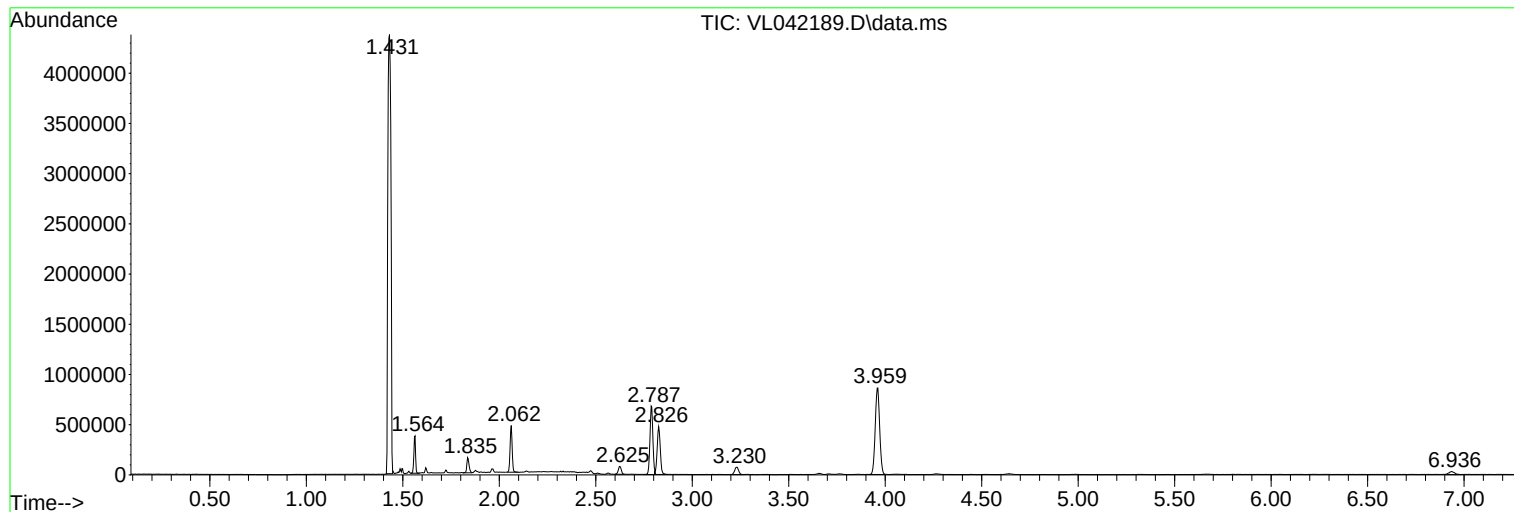
Sum of corrected areas: 12508052

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042189.D  
Acq On : 27 Mar 2025 20:48  
Operator : SY/MD  
Sample : Q1669-09  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042189.D  
Acq On : 27 Mar 2025 20:48  
Operator : SY/MD  
Sample : Q1669-09  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

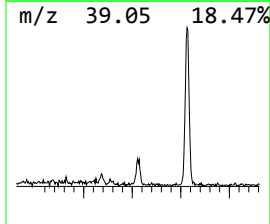
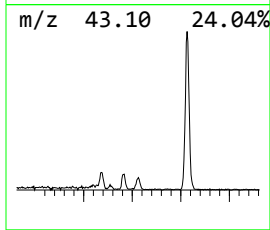
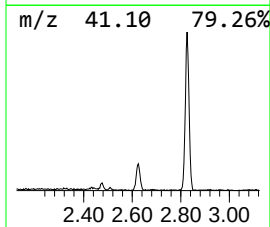
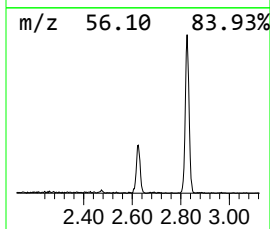
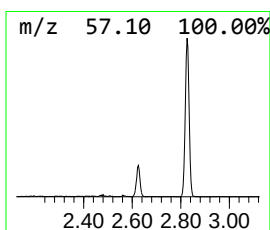
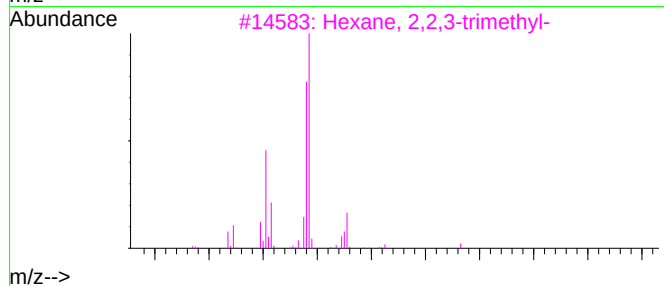
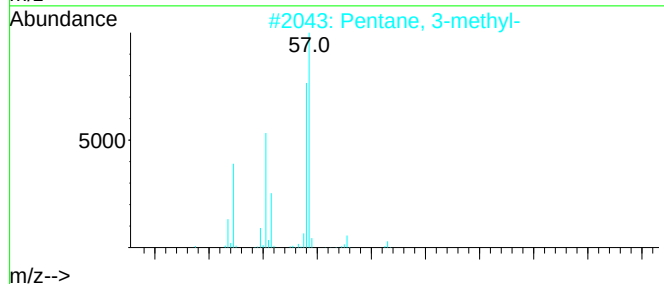
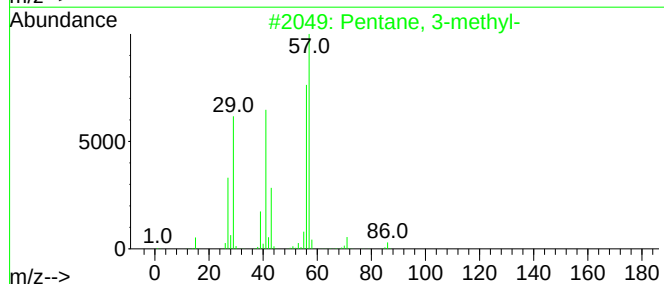
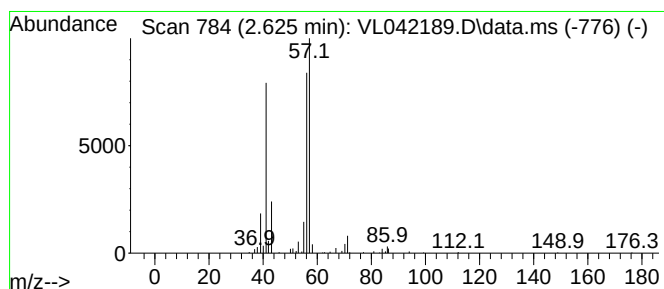
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

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

\*\*\*\*\*

Peak Number 1 Pentane, 3-methyl- Concentration Rank 2

| R.T.      | EstConc                       | Area  | Relative to ISTD   | R.T.        |      |
|-----------|-------------------------------|-------|--------------------|-------------|------|
| 2.625     | 1.18 ppbv                     | 84853 | Bromochloromethane | 2.787       |      |
| Hit# of 5 | Tentative ID                  | MW    | MolForm            | CAS#        | Qual |
| 1         | Pentane, 3-methyl-            | 86    | C6H14              | 000096-14-0 | 90   |
| 2         | Pentane, 3-methyl-            | 86    | C6H14              | 000096-14-0 | 80   |
| 3         | Hexane, 2,2,3-trimethyl-      | 128   | C9H20              | 016747-25-4 | 78   |
| 4         | Pentane, 3-methyl-            | 86    | C6H14              | 000096-14-0 | 72   |
| 5         | 5,5-Dimethyl-1,3-dioxan-2-one | 130   | C6H10O3            | 003592-12-9 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042189.D  
Acq On : 27 Mar 2025 20:48  
Operator : SY/MD  
Sample : Q1669-09  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

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

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

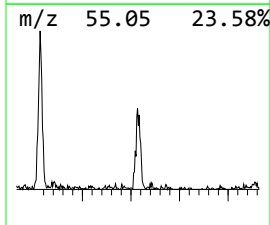
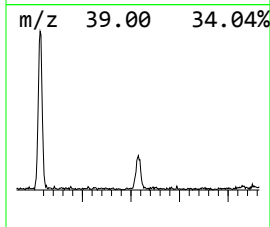
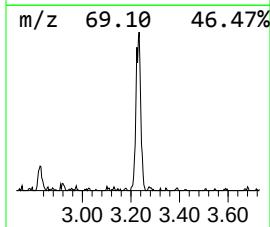
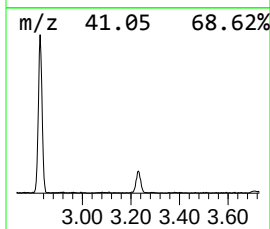
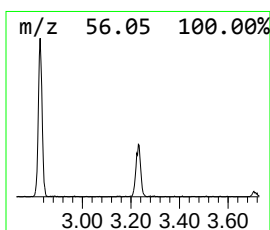
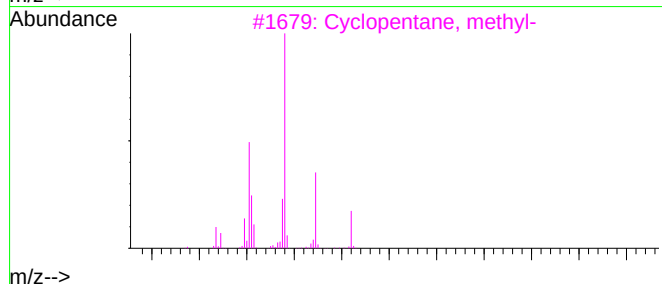
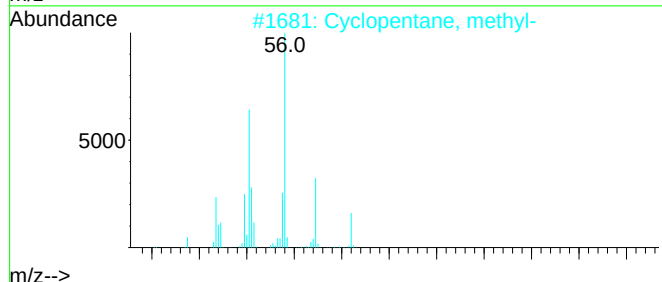
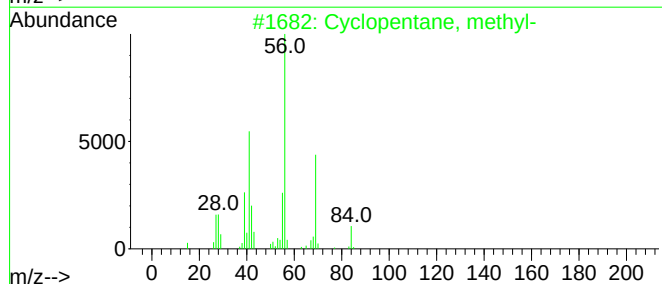
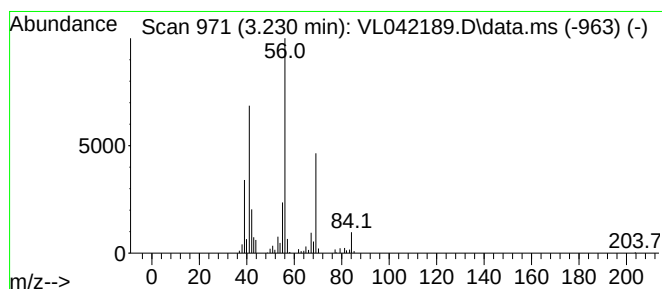
\*\*\*\*\*

Peak Number 2 Cyclopentane, methyl- Concentration Rank 1

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 3.230 | 1.44 ppbv | 103610 | Bromochloromethane | 2.787 |

| Hit# of 5 | Tentative ID                | MW  | MolForm  | CAS#        | Qual |
|-----------|-----------------------------|-----|----------|-------------|------|
| 1         | Cyclopentane, methyl-       | 84  | C6H12    | 000096-37-7 | 90   |
| 2         | Cyclopentane, methyl-       | 84  | C6H12    | 000096-37-7 | 80   |
| 3         | Cyclopentane, methyl-       | 84  | C6H12    | 000096-37-7 | 72   |
| 4         | Tetramethylene diisocyanate | 140 | C6H8N2O2 | 004538-37-8 | 72   |
| 5         | Propane, 2-cyclopropyl-     | 84  | C6H12    | 003638-35-5 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042189.D  
Acq On : 27 Mar 2025 20:48  
Operator : SY/MD  
Sample : Q1669-09  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

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

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

| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|--------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                    |       |         |       |          | #                     | RT    | Resp   | Conc |
| Pentane, 3-methyl- | 2.625 | 1.2     | ppbv  | 84853    | 1                     | 2.787 | 717029 | 10.0 |
| Cyclopentane, m... | 3.230 | 1.4     | ppbv  | 103610   | 1                     | 2.787 | 717029 | 10.0 |



# CALIBRATION SUMMARY

|    |
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| 1  |
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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

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

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   | 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

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

### 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) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 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

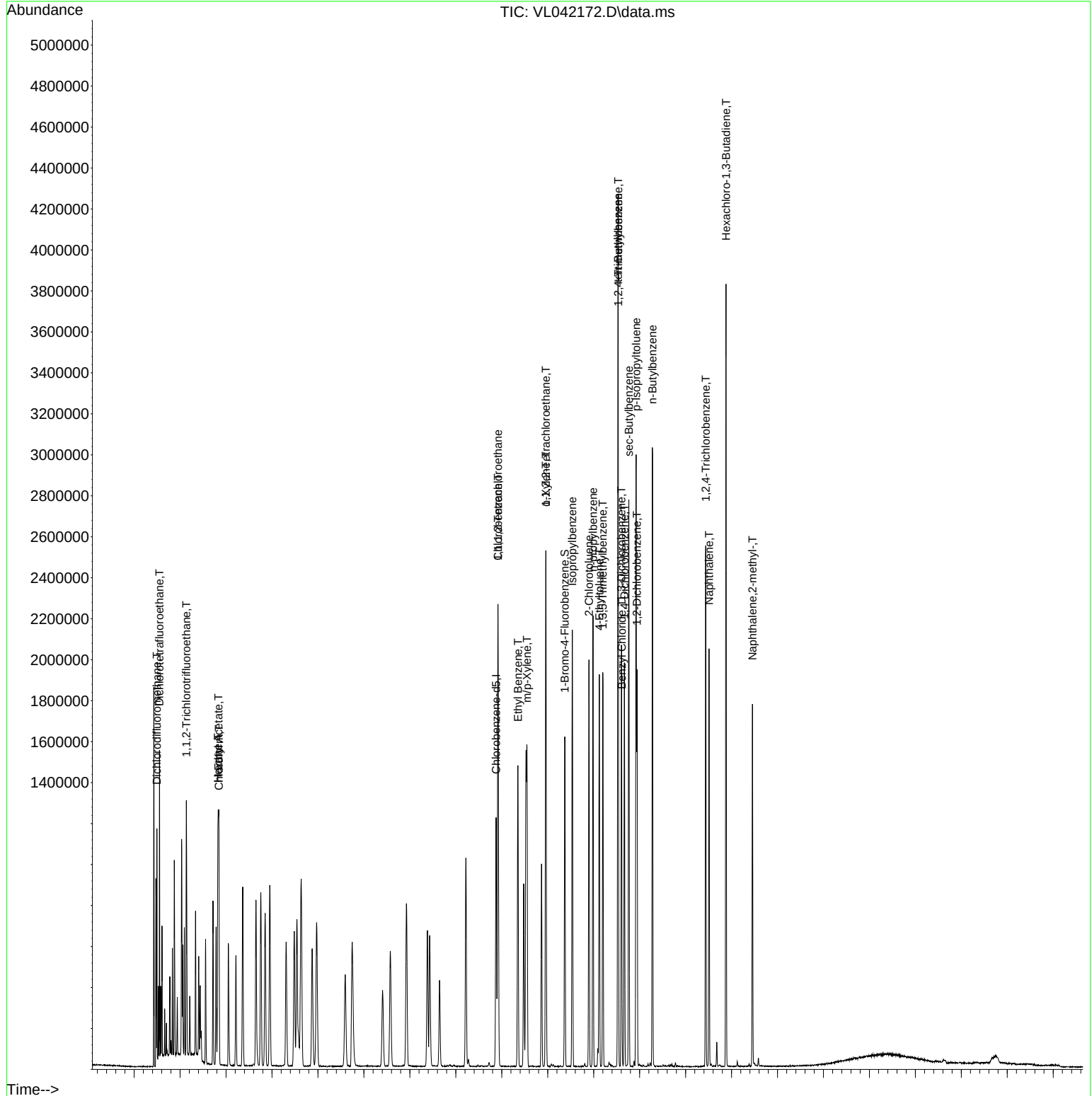
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042172.D  
Acq On : 27 Mar 2025 08:26  
Operator : SY/MD  
Sample : VSTDICCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

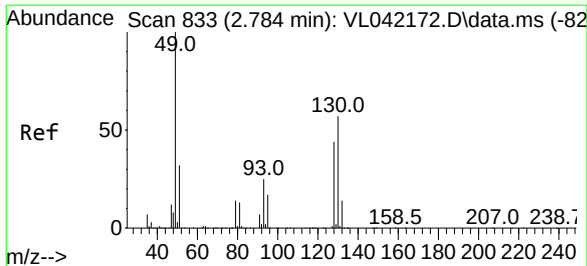
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

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\_LFri Aug  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

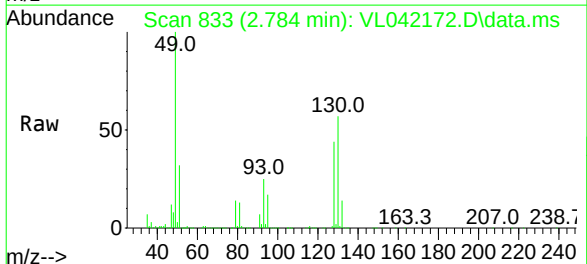
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 833  
Delta R.T. -0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

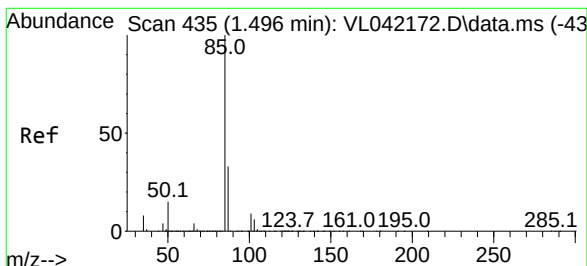
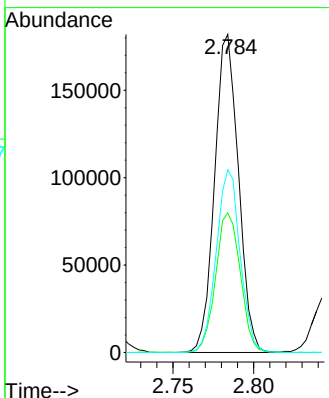
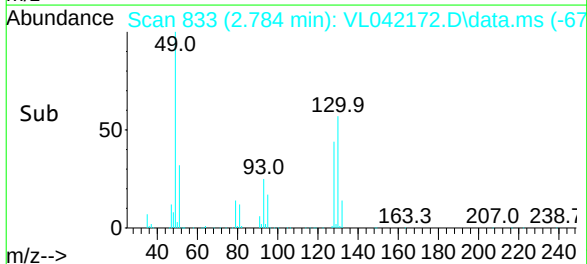
Instrument : MSVOA\_L  
ClientSampleId : VSTDICCC010



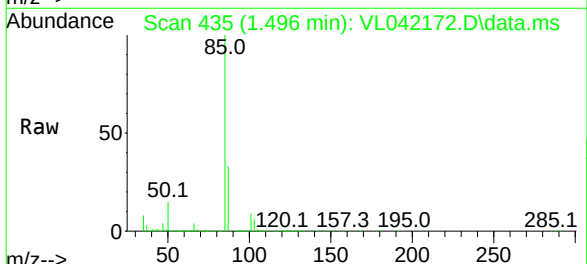
Tgt Ion: 49 Resp: 187002  
Ion Ratio Lower Upper  
49 100  
128 45.7 22.9 68.5  
130 57.6 28.8 86.4

Manual Integrations  
APPROVED

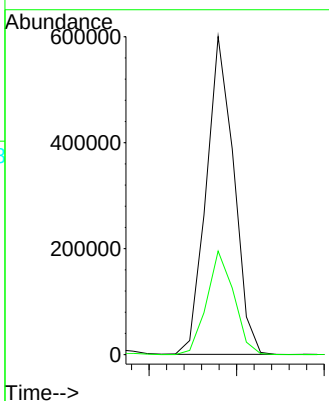
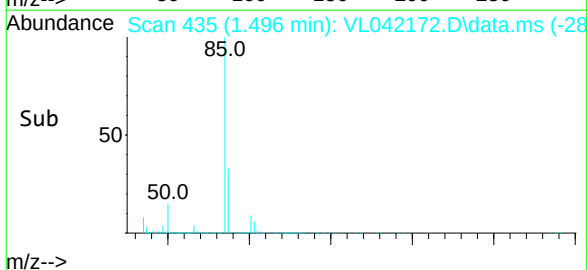
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

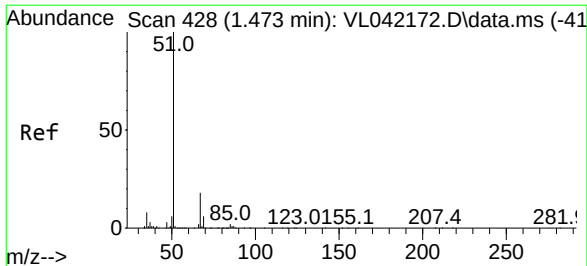


#2  
Dichlorodifluoromethane  
Concen: 9.507 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26



Tgt Ion: 85 Resp: 262496  
Ion Ratio Lower Upper  
85 100  
87 32.6 26.1 39.1





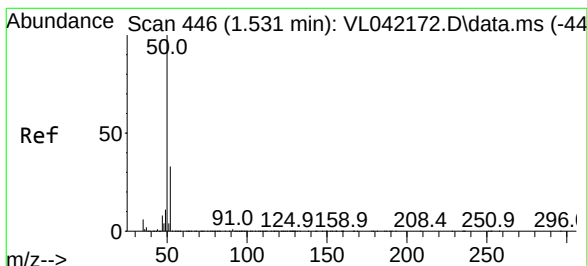
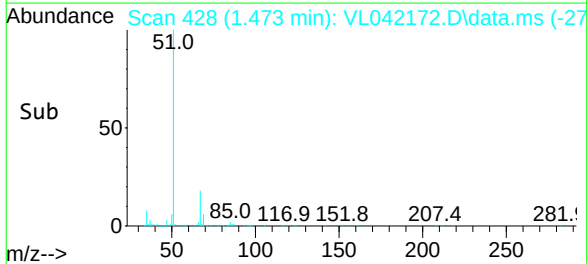
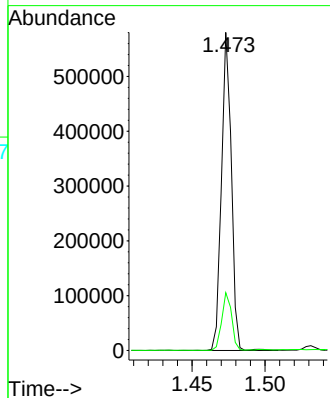
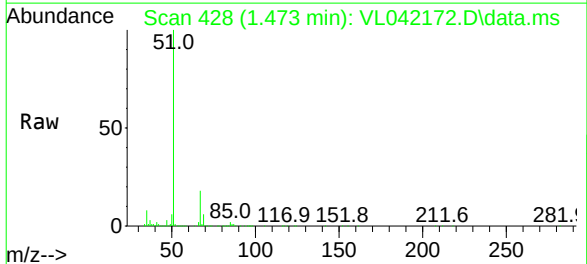
#3  
Chlorodifluoromethane  
Concen: 9.662 ppbv  
RT: 1.473 min Scan# 428  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 51 Resp: 272522  
Ion Ratio Lower Upper  
51 100  
67 18.8 15.0 22.6

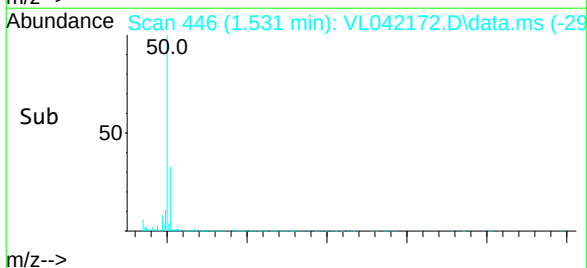
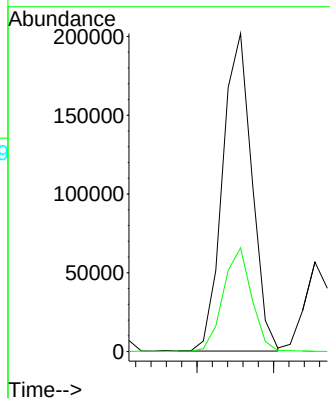
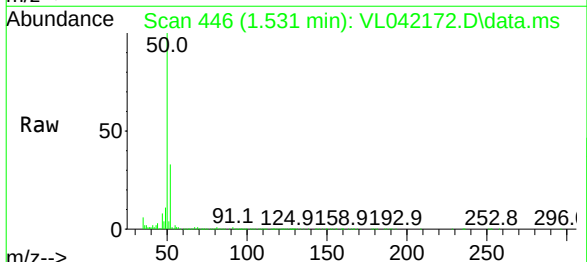
Manual Integrations  
APPROVED

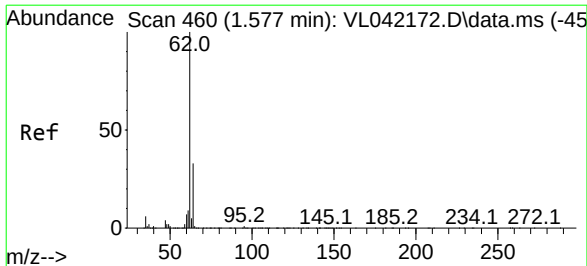
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#4  
Chloromethane  
Concen: 9.491 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 50 Resp: 107099  
Ion Ratio Lower Upper  
50 100  
52 32.6 26.1 39.1





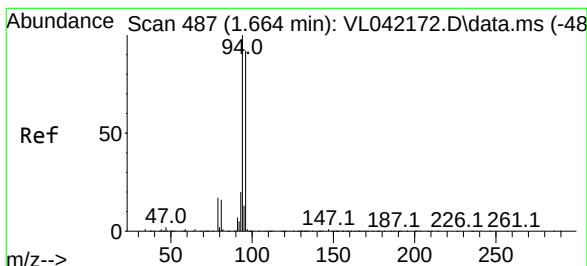
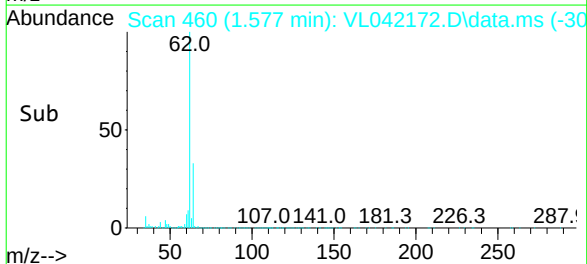
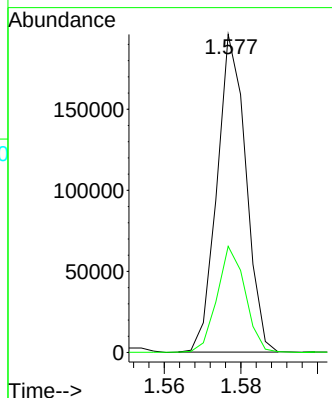
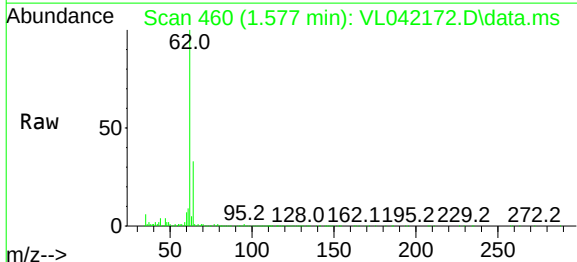
#5  
 Vinyl Chloride  
 Concen: 8.925 ppbv  
 RT: 1.577 min Scan# 460  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion: 62 Resp: 102699  
 Ion Ratio Lower Upper  
 62 100  
 64 33.3 26.6 40.0

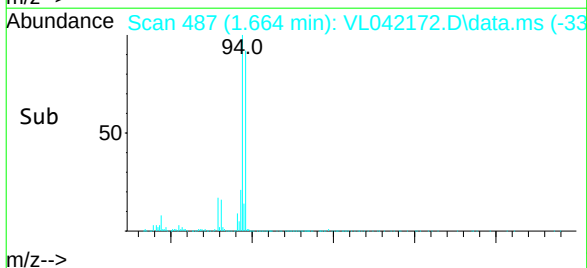
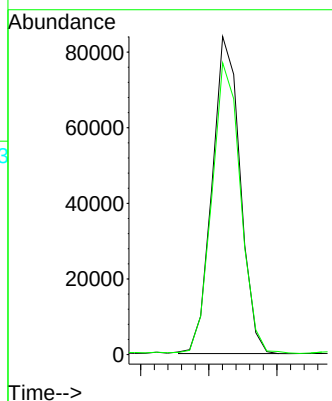
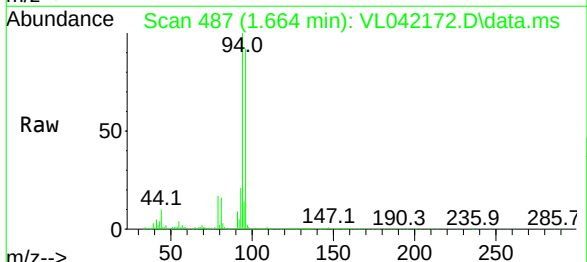
Manual Integrations  
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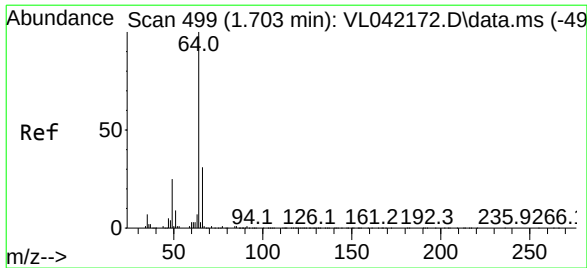
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#6  
 Bromomethane  
 Concen: 9.377 ppbv  
 RT: 1.664 min Scan# 487  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

Tgt Ion: 94 Resp: 47950  
 Ion Ratio Lower Upper  
 94 100  
 96 91.4 73.1 109.7





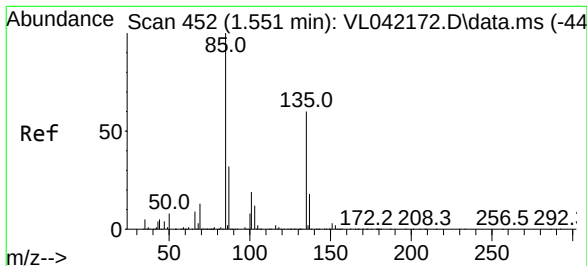
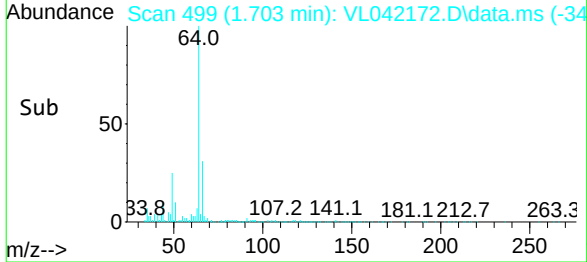
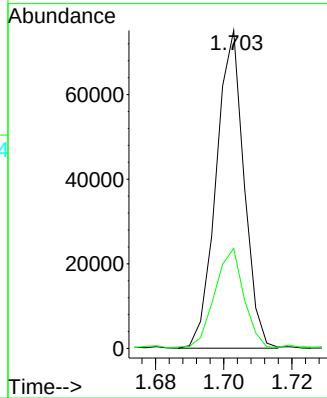
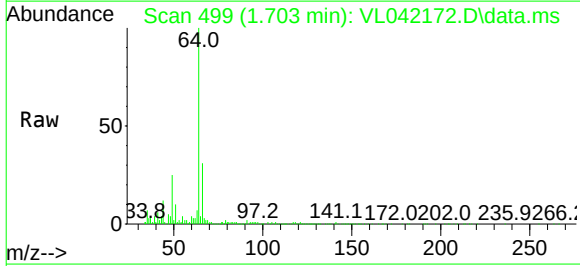
#7  
Chloroethane  
Concen: 9.387 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument : MSVOA\_L  
ClientSampleId : VSTDICCC010

Tgt Ion: 64 Resp: 42516  
Ion Ratio Lower Upper  
64 100  
66 31.5 25.2 37.8

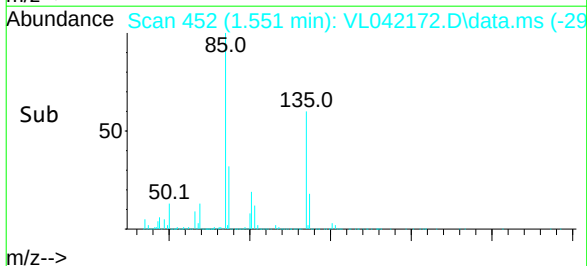
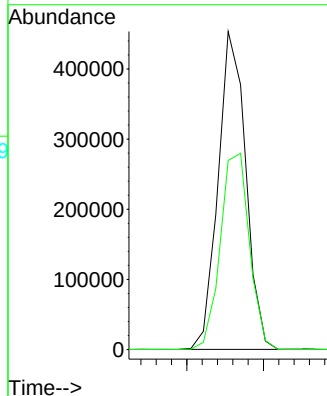
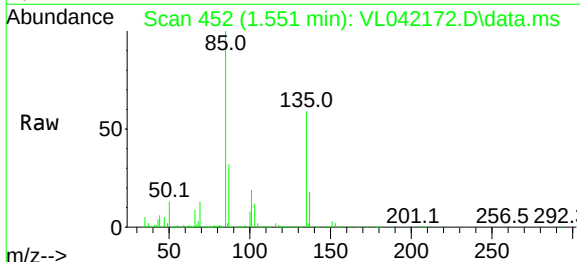
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

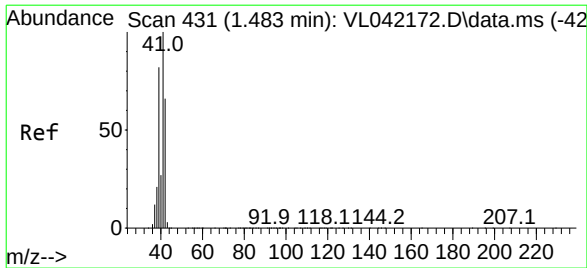


#8  
Dichlorotetrafluoroethane  
Concen: 9.656 ppbv  
RT: 1.551 min Scan# 452  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 85 Resp: 227041  
Ion Ratio Lower Upper  
85 100  
135 65.5 52.4 78.6







#9

Propene

Concen: 9.709 ppbv

RT: 1.483 min Scan# 431

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 123386

Ion Ratio Lower Upper

41 100

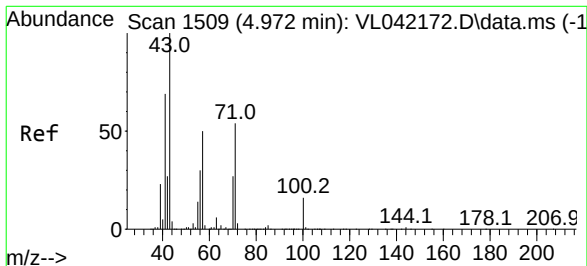
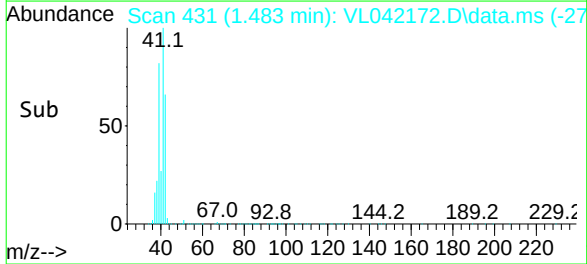
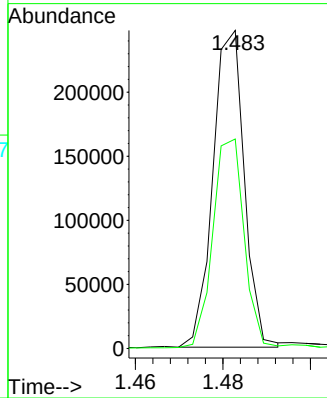
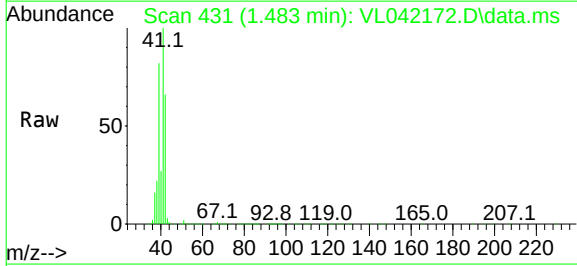
42 69.3 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#10

Heptane

Concen: 9.744 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VL042172.D

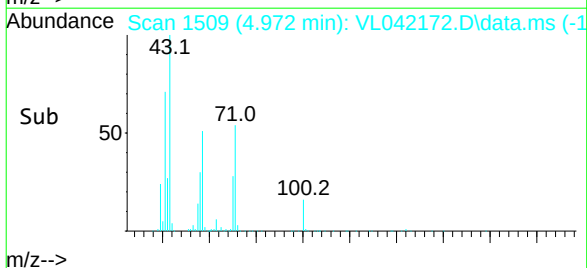
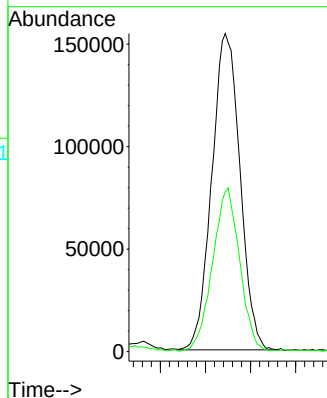
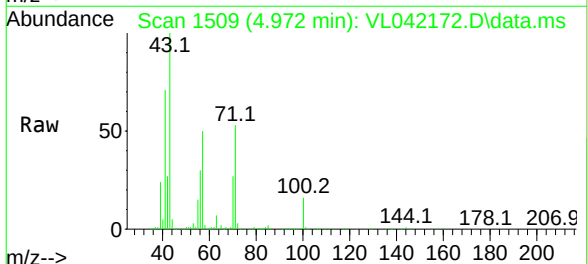
Acq: 27 Mar 2025 08:26

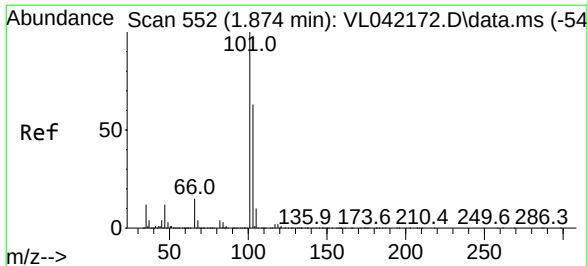
Tgt Ion: 43 Resp: 335086

Ion Ratio Lower Upper

43 100

57 49.3 39.4 59.2





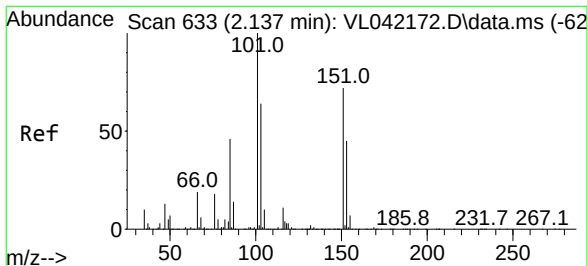
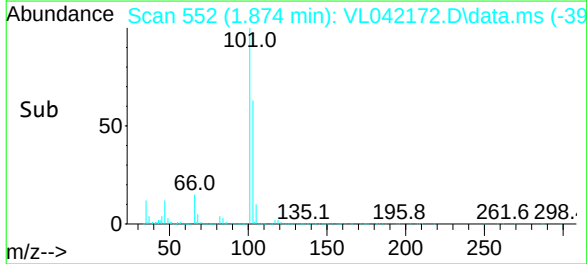
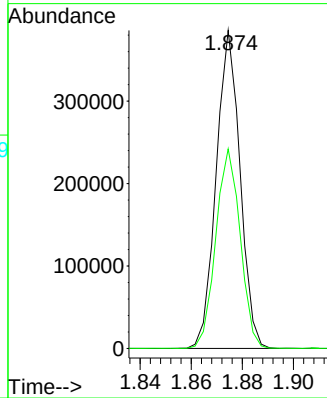
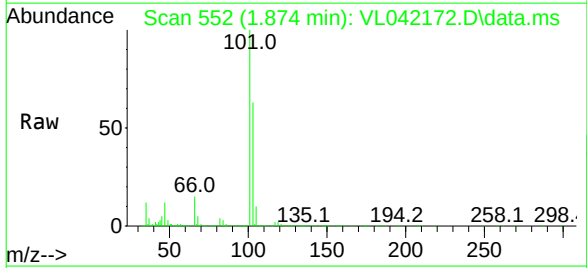
#11  
Trichlorofluoromethane  
Concen: 9.318 ppbv  
RT: 1.874 min Scan# 552  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion:101 Resp: 250349  
Ion Ratio Lower Upper  
101 100  
103 62.7 50.2 75.2

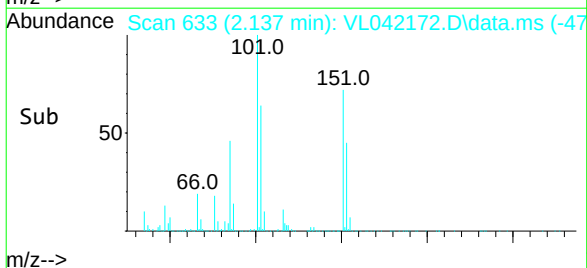
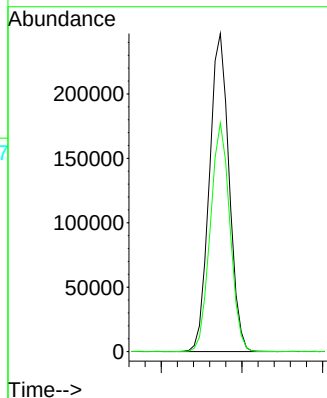
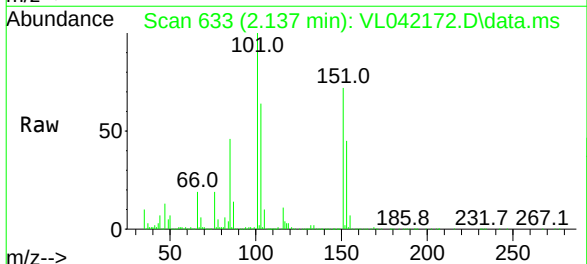
Manual Integrations  
APPROVED

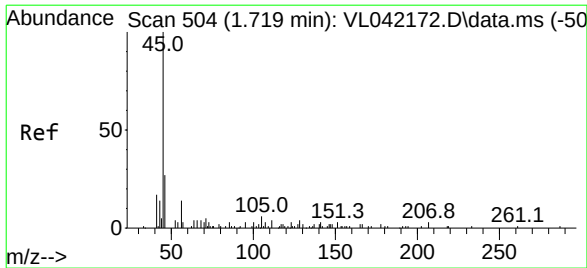
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.481 ppbv  
RT: 2.137 min Scan# 633  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion:101 Resp: 209365  
Ion Ratio Lower Upper  
101 100  
151 71.4 57.1 85.7





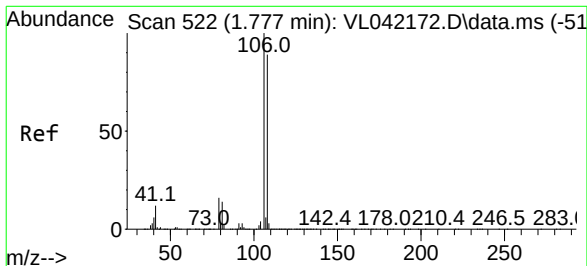
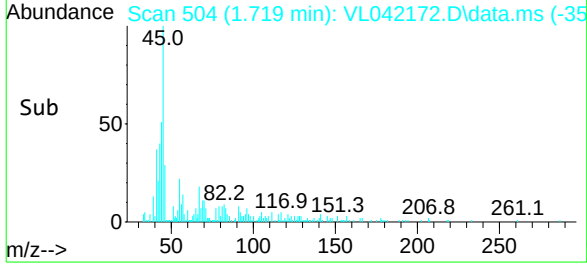
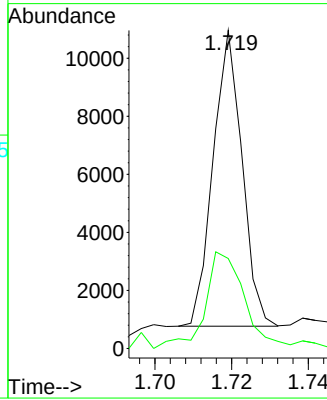
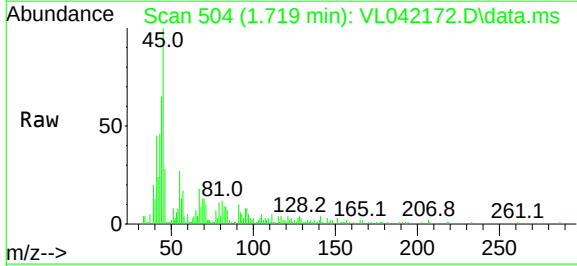
#13  
Ethanol  
Concen: 5.364 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 45 Resp: 5338  
Ion Ratio Lower Upper  
45 100  
46 50.5 20.2 80.8

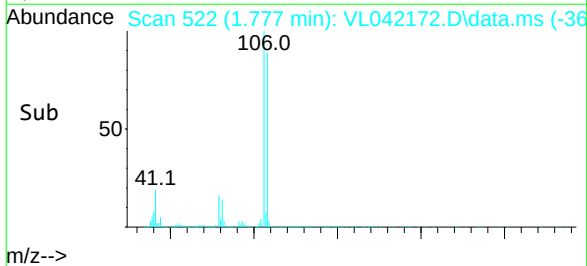
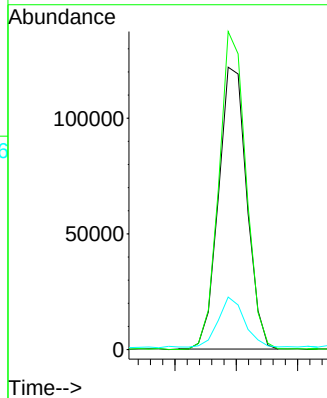
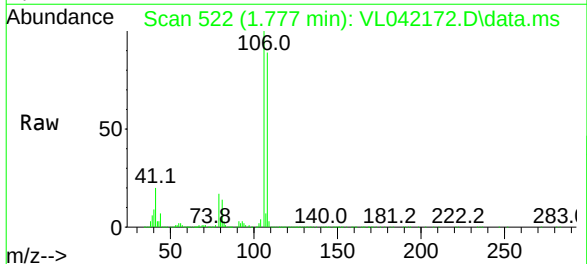
Manual Integrations  
APPROVED

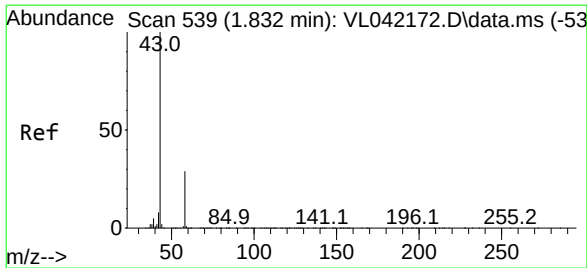
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#14  
Bromoethene  
Concen: 9.220 ppbv  
RT: 1.777 min Scan# 522  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion:108 Resp: 77999  
Ion Ratio Lower Upper  
108 100  
106 108.5 86.8 130.2  
79 18.8 15.0 22.6





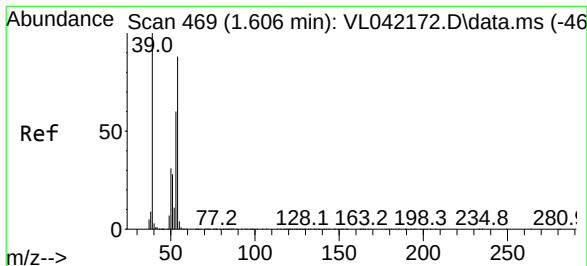
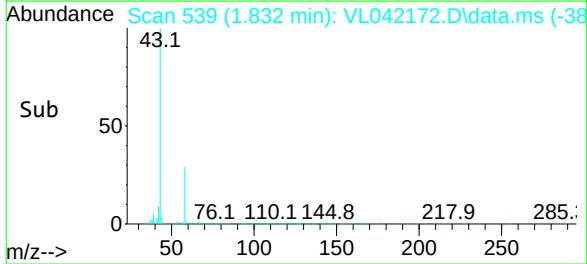
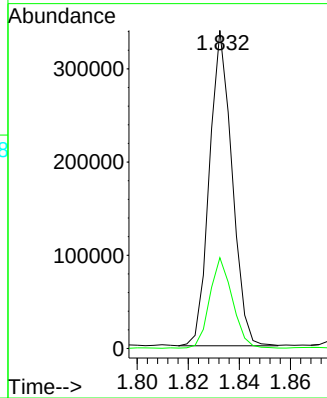
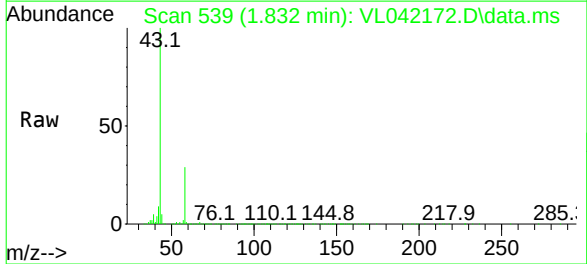
#15  
Acetone  
Concen: 7.955 ppbv  
RT: 1.832 min Scan# 539  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 43 Resp: 208061  
Ion Ratio Lower Upper  
43 100  
58 29.0 23.2 34.8

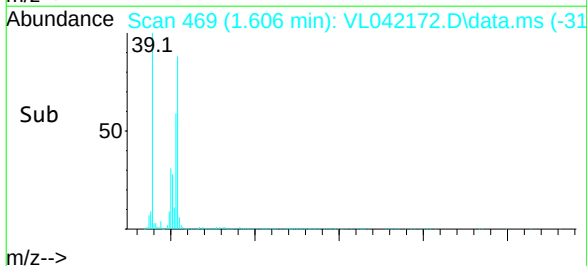
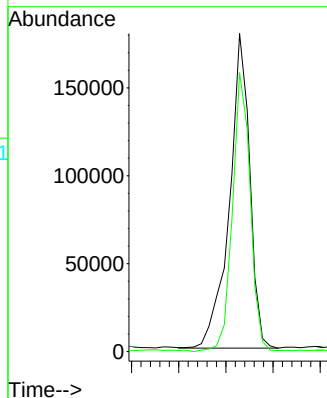
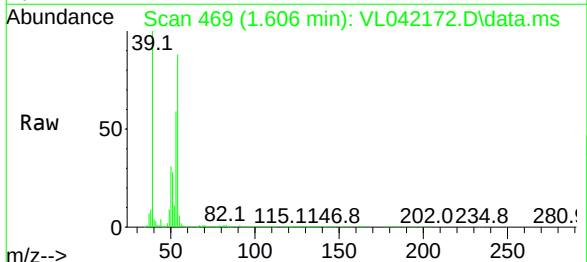
Manual Integrations  
APPROVED

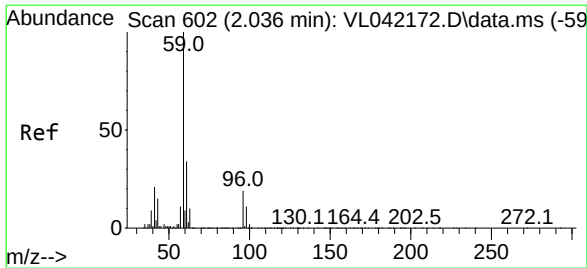
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#16  
1,3-Butadiene  
Concen: 9.105 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 39 Resp: 107104  
Ion Ratio Lower Upper  
39 100  
54 75.9 60.7 91.1





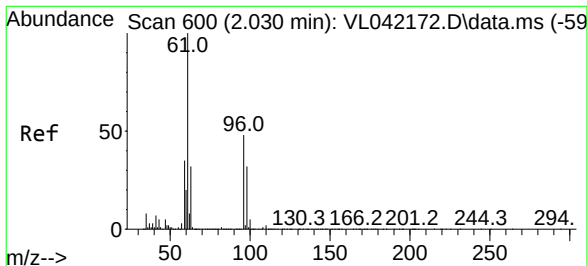
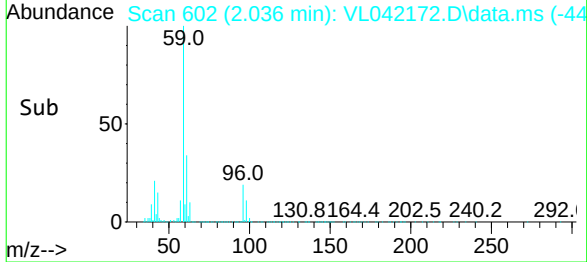
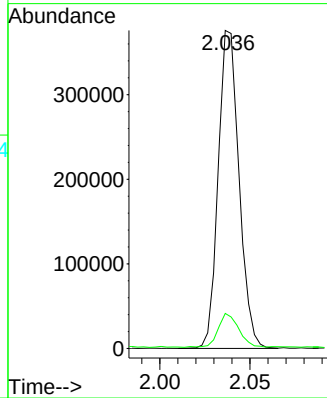
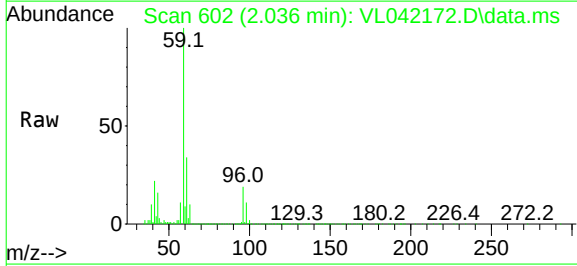
#17  
tert-Butyl alcohol  
Concen: 9.290 ppbv  
RT: 2.036 min Scan# 602  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 59 Resp: 302616  
Ion Ratio Lower Upper  
59 100  
57 11.1 8.9 13.3

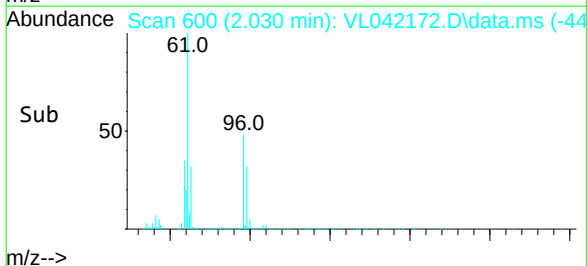
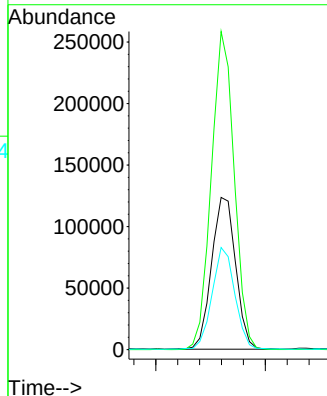
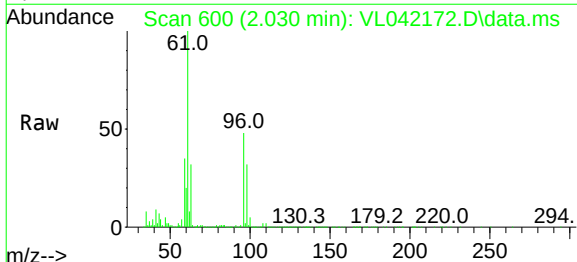
Manual Integrations  
APPROVED

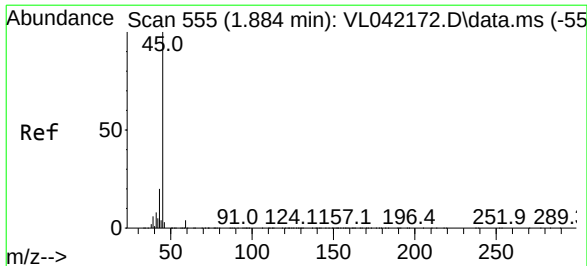
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#18  
1,1-Dichloroethene  
Concen: 9.128 ppbv  
RT: 2.030 min Scan# 600  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 94236  
Ion Ratio Lower Upper  
96 100  
61 209.5 167.6 251.4  
98 66.9 53.5 80.3





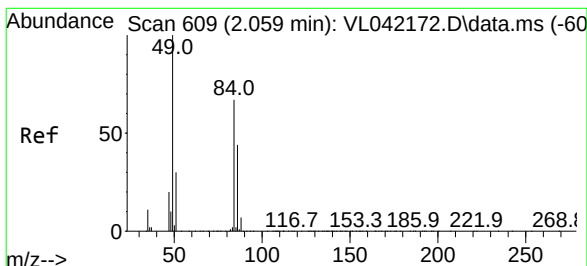
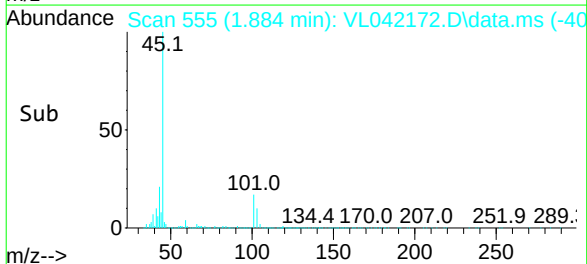
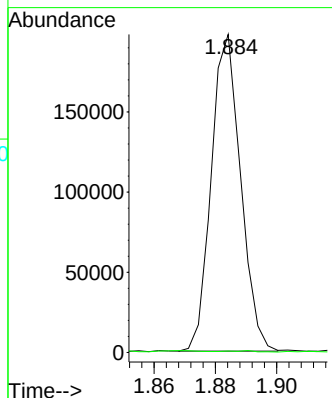
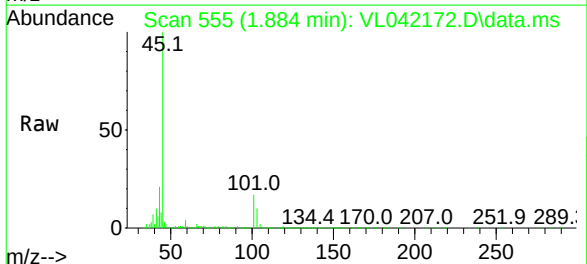
#19  
Isopropyl Alcohol  
Concen: 8.902 ppbv  
RT: 1.884 min Scan# 555  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 45 Resp: 131359  
Ion Ratio Lower Upper  
45 100  
58 46.1 36.9 55.3

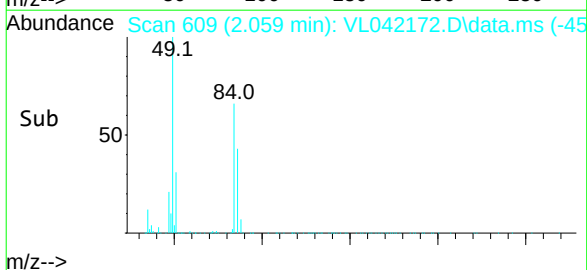
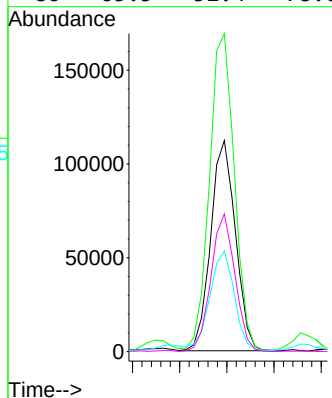
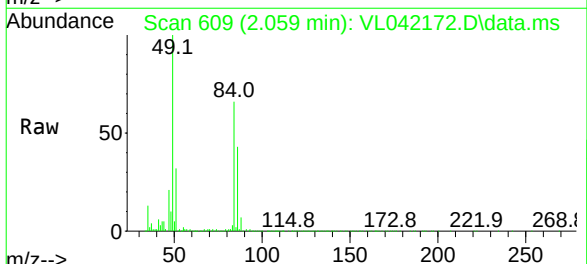
Manual Integrations  
APPROVED

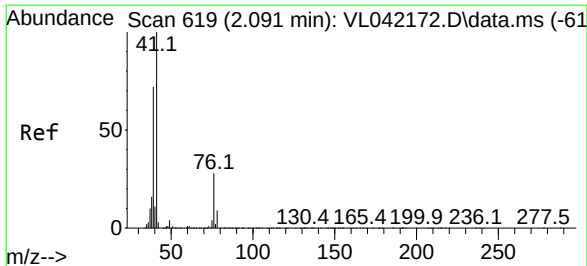
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#20  
Methylene Chloride  
Concen: 8.401 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 81828  
Ion Ratio Lower Upper  
84 100  
49 150.3 120.2 180.4  
51 46.7 37.4 56.0  
86 65.5 52.4 78.6





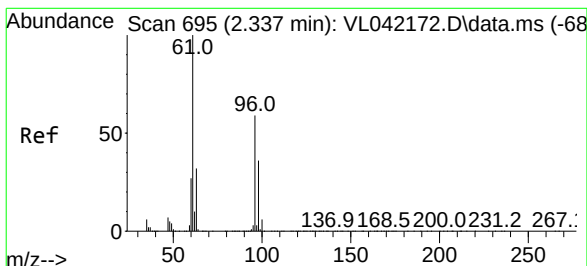
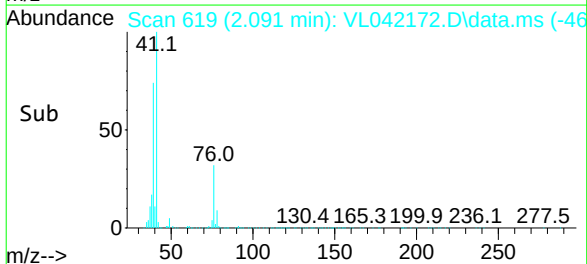
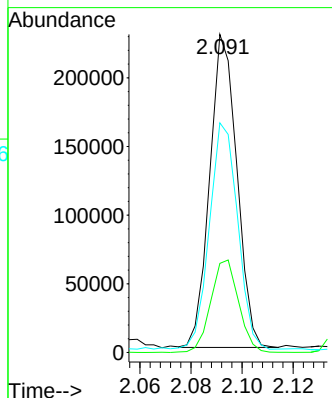
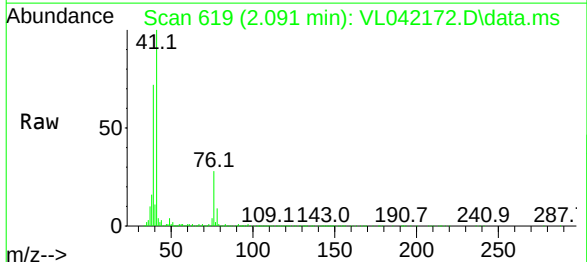
#21  
 Allyl Chloride  
 Concen: 9.141 ppbv  
 RT: 2.091 min Scan# 619  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion: 41 Resp: 168602  
 Ion Ratio Lower Upper  
 41 100  
 76 30.1 24.1 36.1  
 39 76.4 61.1 91.7

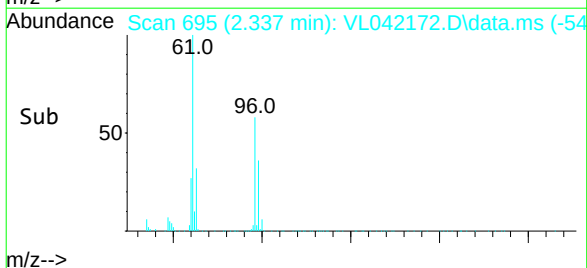
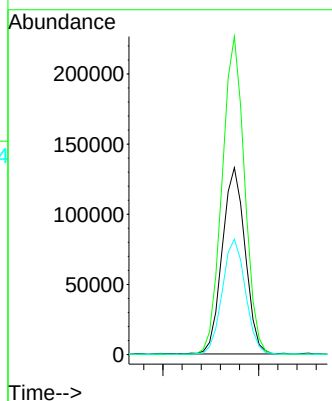
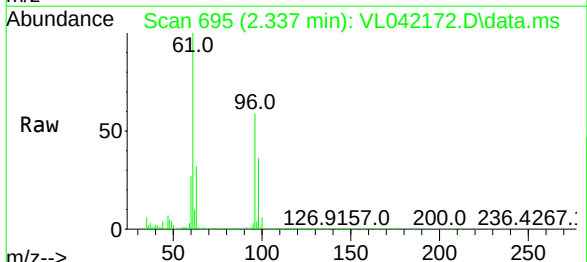
Manual Integrations  
 APPROVED

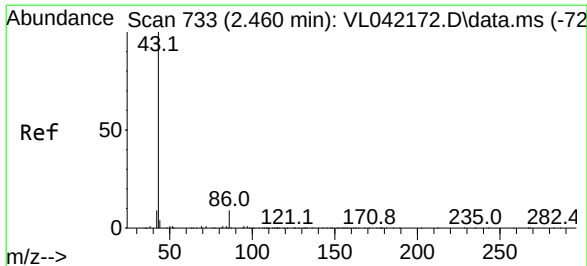
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.149 ppbv  
 RT: 2.337 min Scan# 695  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 110371  
 Ion Ratio Lower Upper  
 96 100  
 61 170.7 136.6 204.8  
 98 61.8 49.4 74.2





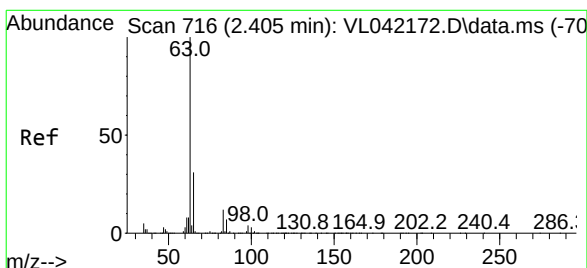
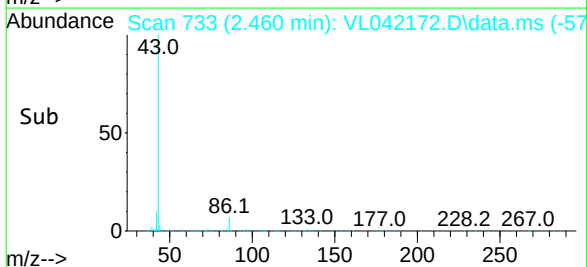
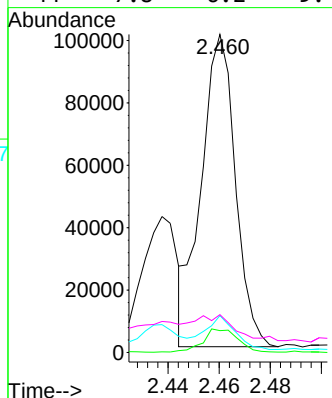
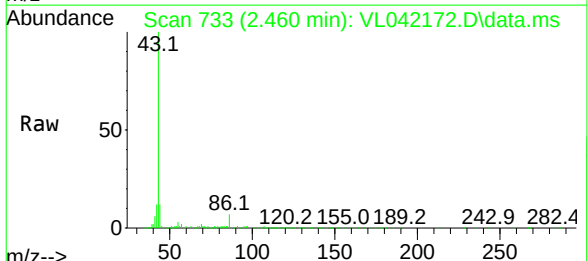
#23  
Vinyl Acetate  
Concen: 8.563 ppbv  
RT: 2.460 min Scan# 733  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 93080 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 6.9   | 5.5   | 8.3   |
| 42       | 10.8  | 8.6   | 13.0  |
| 44       | 7.8   | 6.2   | 9.4   |

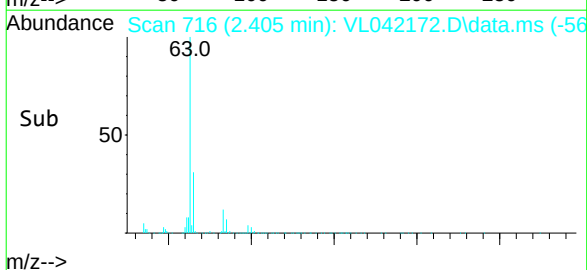
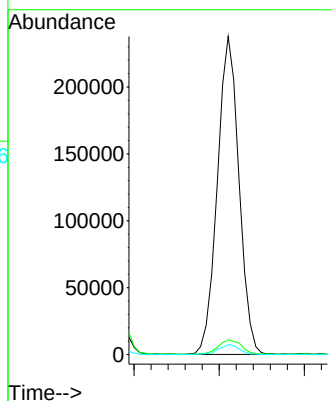
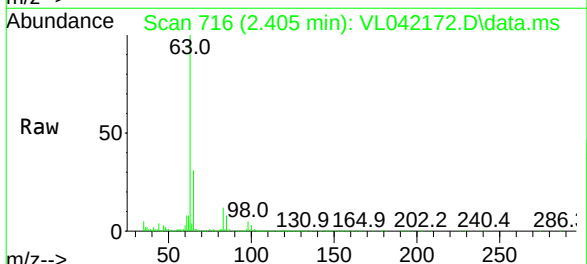
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

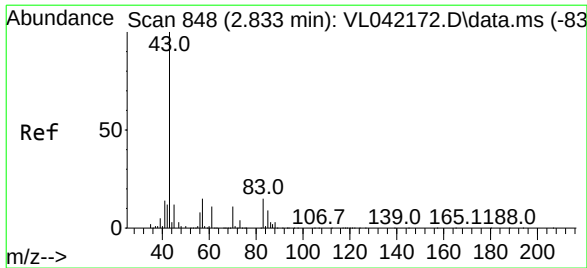


#24  
1,1-Dichloroethane  
Concen: 9.484 ppbv  
RT: 2.405 min Scan# 716  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 209753 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 4.5   | 2.3   | 6.8    |
| 100      | 3.1   | 1.6   | 4.7    |

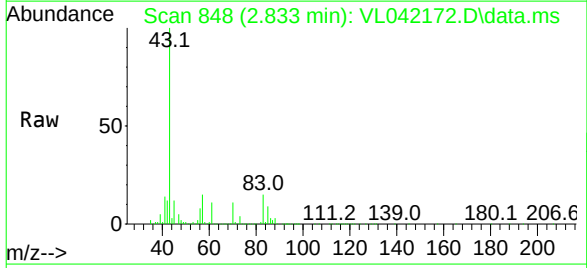






#25  
Ethyl Acetate  
Concen: 9.524 ppbv  
RT: 2.833 min Scan# 848  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

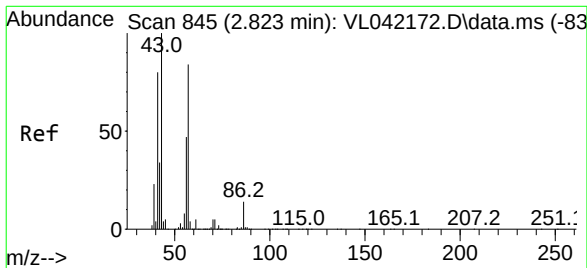
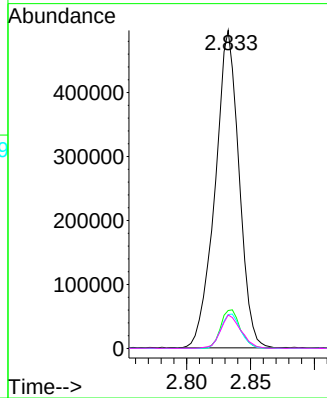
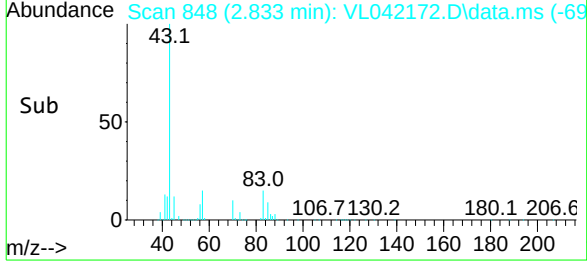
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



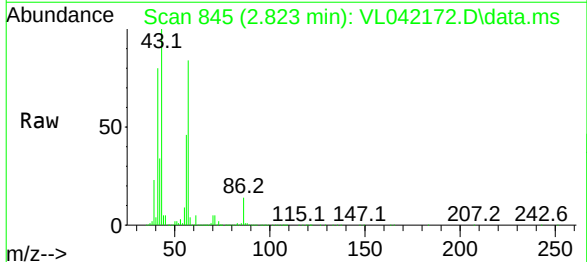
| Tgt Ion: | 43    | Resp: | 646501 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 10.2  | 8.2   | 12.2   |
| 61       | 9.1   | 7.3   | 10.9   |
| 70       | 9.0   | 7.2   | 10.8   |

Manual Integrations  
APPROVED

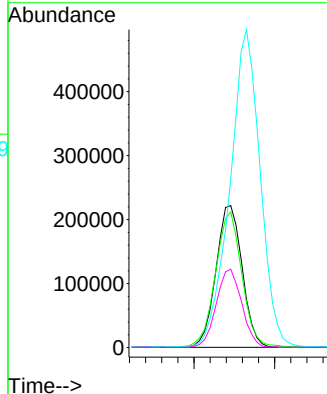
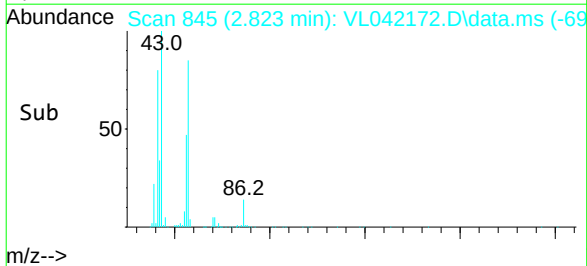
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

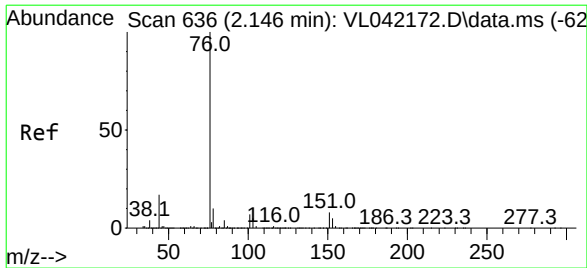


#26  
Hexane  
Concen: 9.510 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26



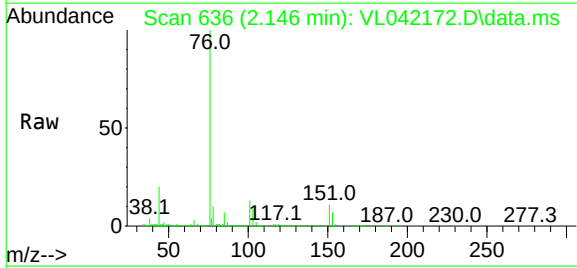
| Tgt Ion: | 57    | Resp: | 249331 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 95.7  | 76.6  | 114.8  |
| 43       | 259.8 | 207.8 | 311.8  |
| 56       | 54.5  | 43.6  | 65.4   |





#27  
Carbon Disulfide  
Concen: 9.550 ppbv  
RT: 2.146 min Scan# 636  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

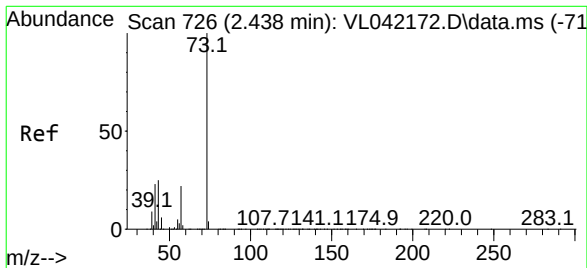
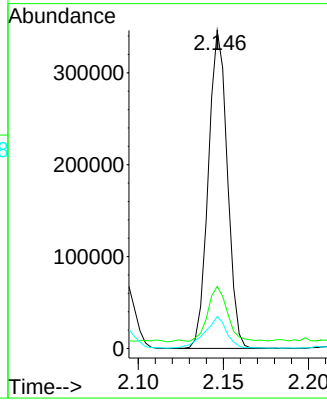
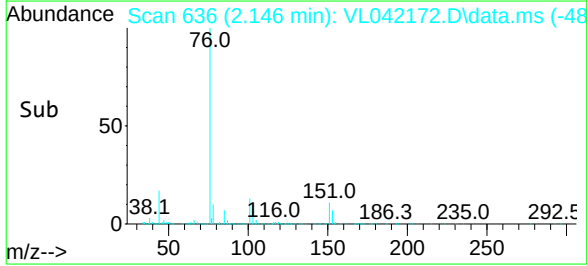
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



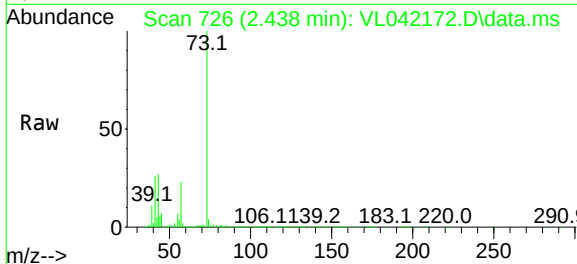
Tgt Ion: 76 Resp: 268507  
Ion Ratio Lower Upper  
76 100  
44 18.4 14.7 22.1  
78 11.6 9.3 13.9

Manual Integrations  
APPROVED

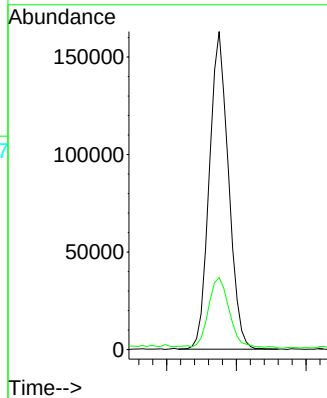
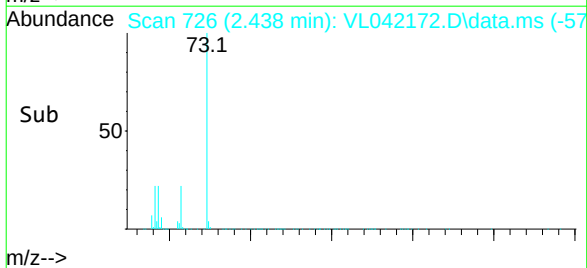
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

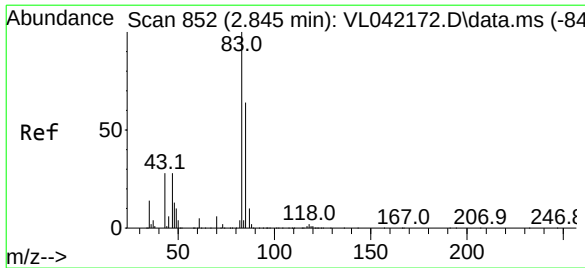


#28  
Methyl tert-Butyl Ether  
Concen: 9.520 ppbv  
RT: 2.438 min Scan# 726  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26



Tgt Ion: 73 Resp: 155398  
Ion Ratio Lower Upper  
73 100  
57 25.6 20.5 30.7





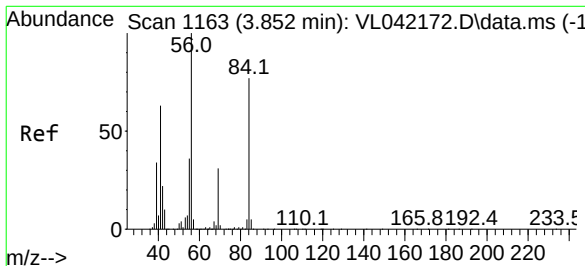
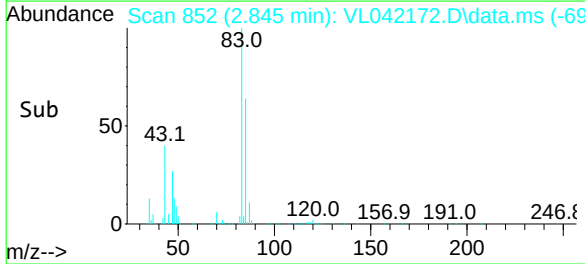
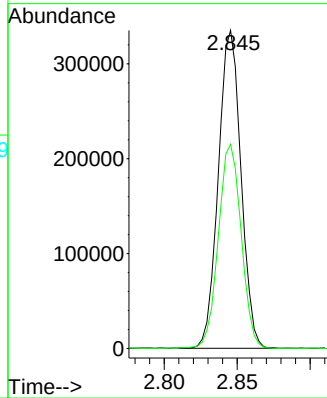
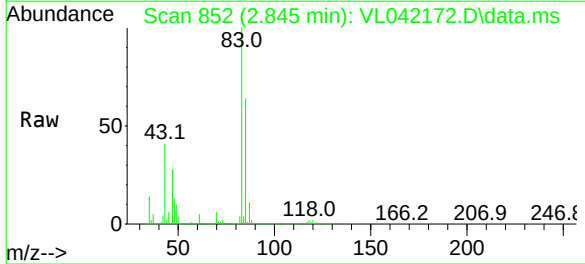
#29  
Chloroform  
Concen: 9.415 ppbv  
RT: 2.845 min Scan# 85  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 83 Resp: 361264  
Ion Ratio Lower Upper  
83 100  
85 64.3 51.4 77.2

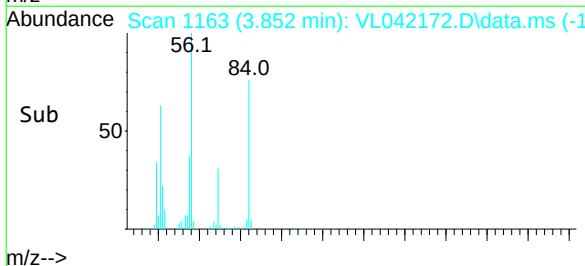
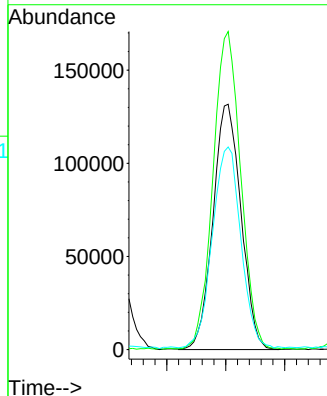
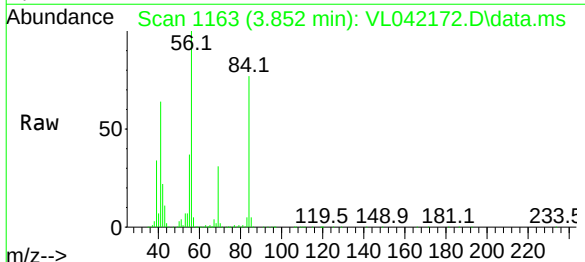
Manual Integrations  
APPROVED

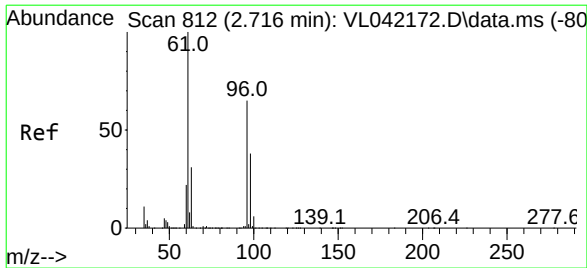
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#30  
Cyclohexane  
Concen: 9.537 ppbv  
RT: 3.852 min Scan# 1163  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 217215  
Ion Ratio Lower Upper  
84 100  
56 128.5 102.8 154.2  
41 83.1 66.5 99.7





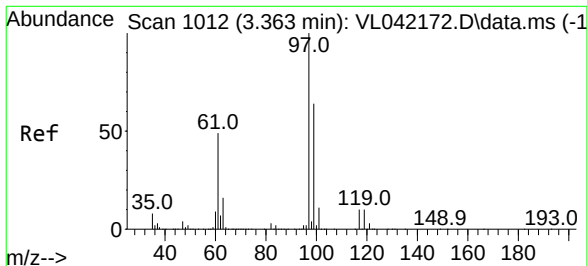
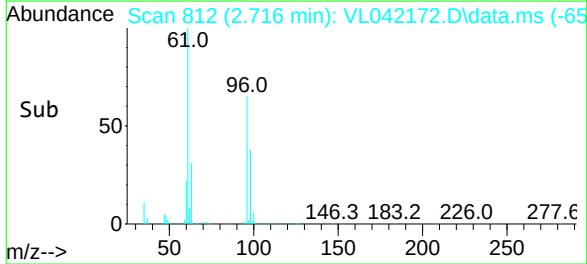
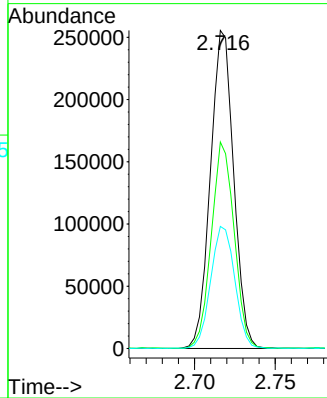
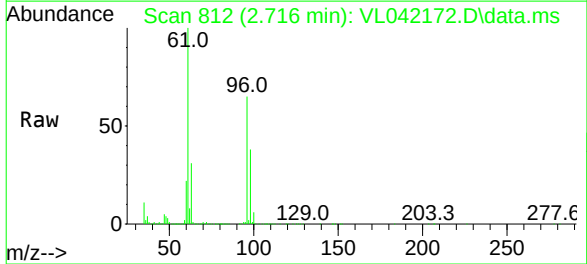
#31  
cis-1,2-Dichloroethene  
Concen: 9.634 ppbv  
RT: 2.716 min Scan# 812  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

| Tgt Ion: | 61    | Resp: | 256425 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 61       | 100   |       |        |
| 96       | 64.8  | 51.8  | 77.8   |
| 98       | 38.3  | 30.6  | 46.0   |

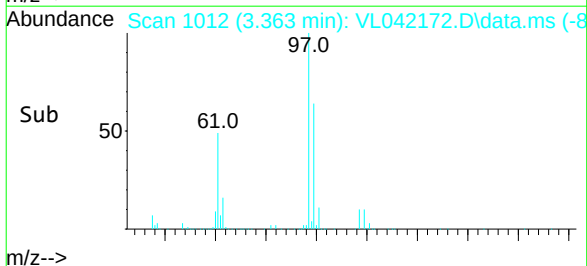
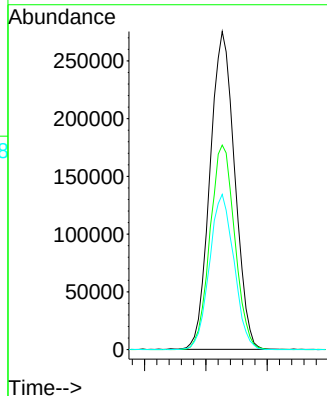
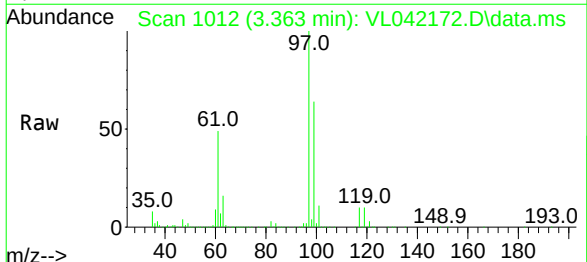
Manual Integrations  
APPROVED

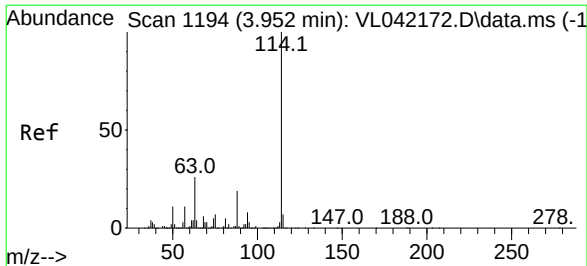
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#32  
1,1,1-Trichloroethane  
Concen: 8.784 ppbv  
RT: 3.363 min Scan# 1012  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

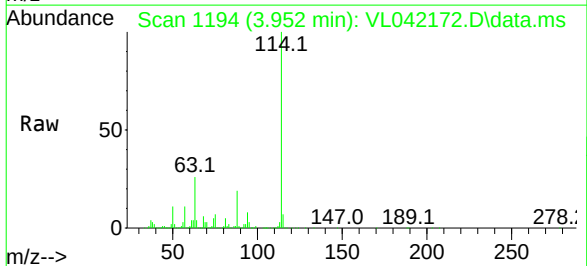
| Tgt Ion: | 97    | Resp: | 385628 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 64.4  | 51.5  | 77.3   |
| 61       | 48.4  | 38.7  | 58.1   |





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.952 min Scan# 1194  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

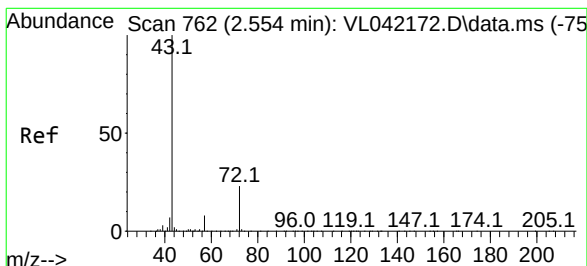
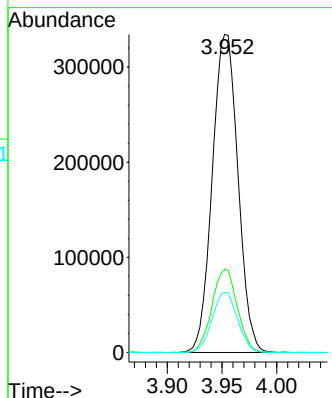
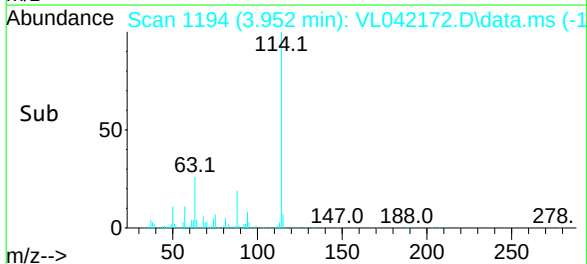
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



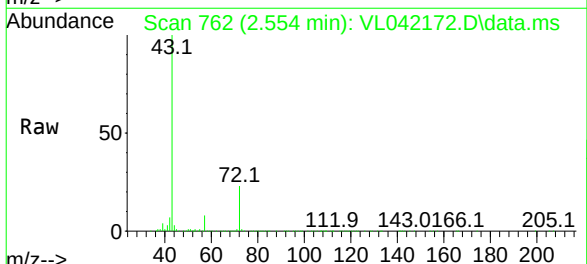
Tgt Ion: 114 Resp: 545068  
Ion Ratio Lower Upper  
114 100  
63 25.9 20.7 31.1  
88 18.7 15.0 22.4

Manual Integrations  
APPROVED

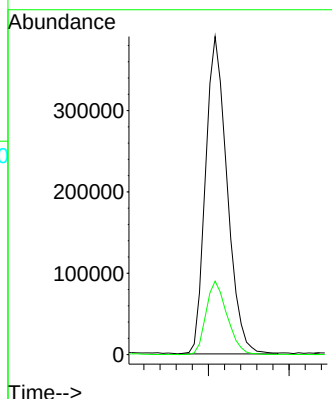
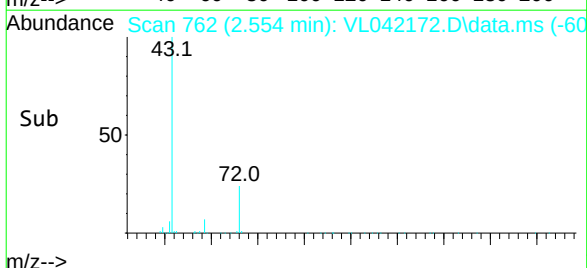
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

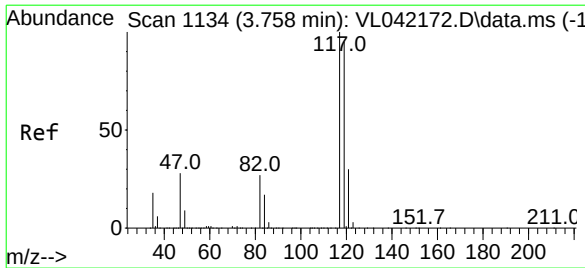


#34  
2-Butanone  
Concen: 9.203 ppbv  
RT: 2.554 min Scan# 762  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26



Tgt Ion: 43 Resp: 363735  
Ion Ratio Lower Upper  
43 100  
72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 9.129 ppbv

RT: 3.758 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA\_L

ClientSampleId :

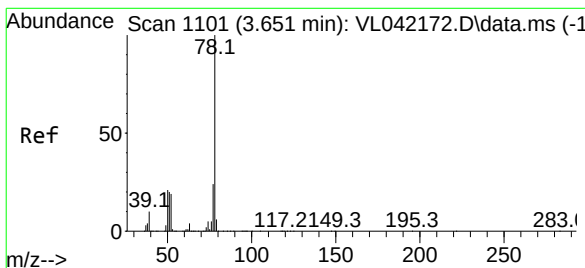
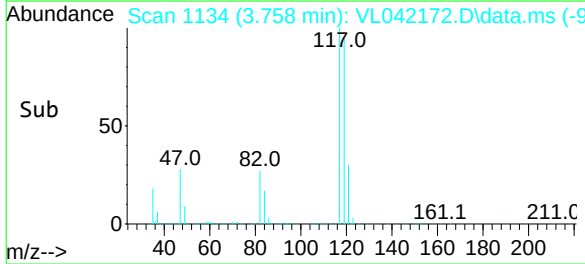
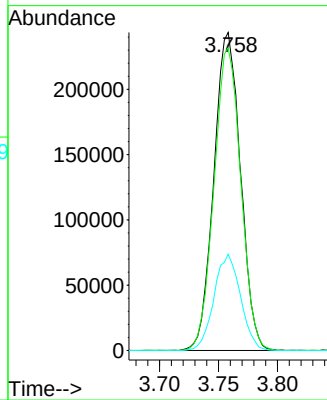
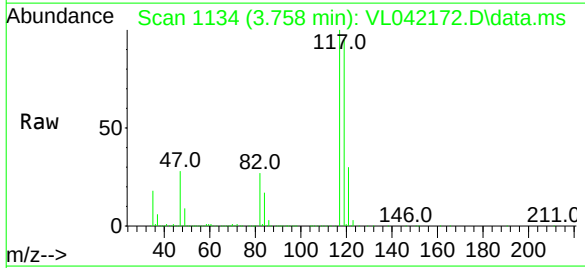
VSTDICCC010

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 382925 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 95.2  | 76.2  | 114.2  |
| 121      | 30.3  | 24.2  | 36.4   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#36

Benzene

Concen: 9.417 ppbv

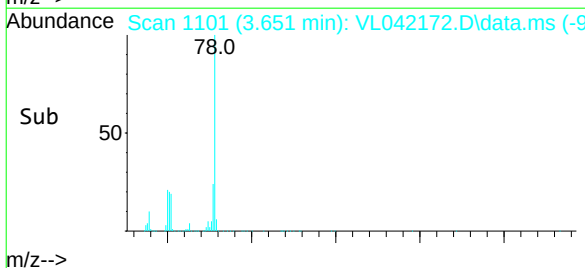
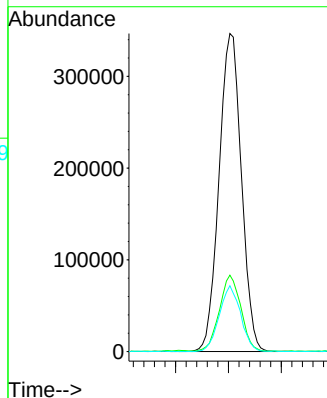
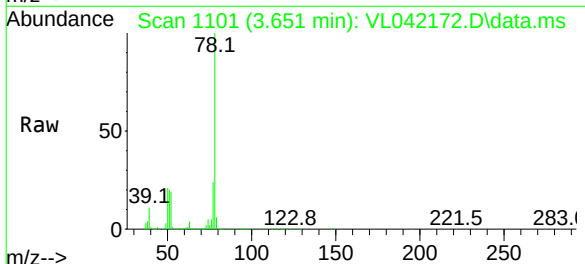
RT: 3.651 min Scan# 1101

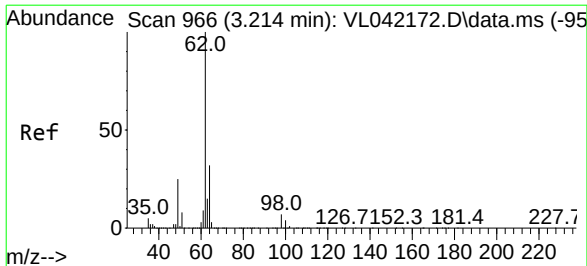
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

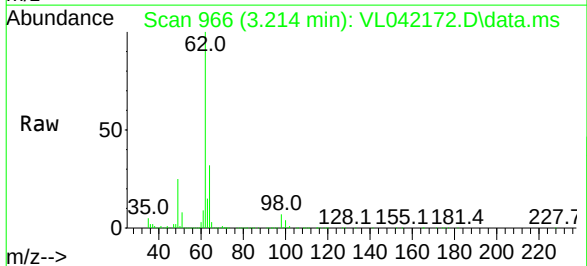
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 78    | Resp: | 508860 |
| Ion      | Ratio | Lower | Upper  |
| 78       | 100   |       |        |
| 77       | 23.9  | 19.1  | 28.7   |
| 50       | 20.7  | 16.6  | 24.8   |





#37  
1,2-Dichloroethane  
Concen: 9.469 ppbv  
RT: 3.214 min Scan# 96  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

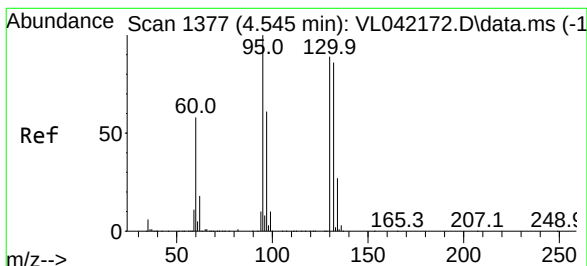
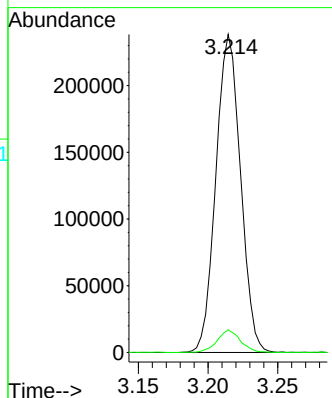
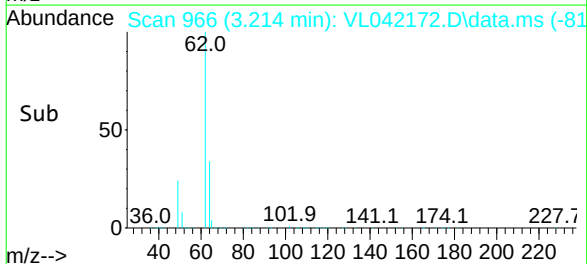
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



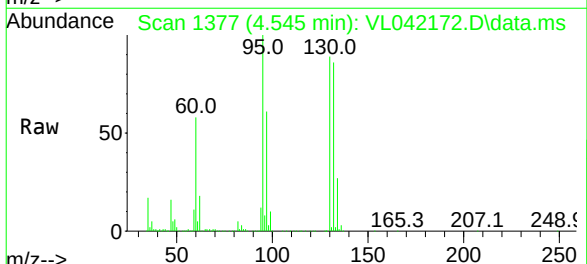
Tgt Ion: 62 Resp: 292937  
Ion Ratio Lower Upper  
62 100  
98 6.8 5.4 8.2

Manual Integrations  
APPROVED

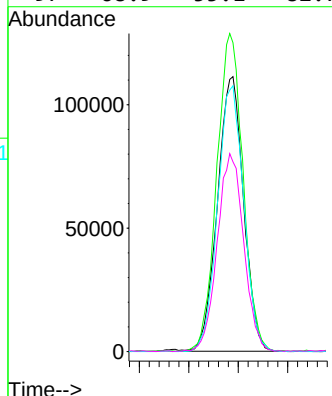
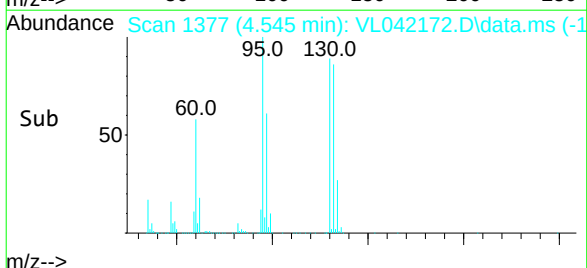
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

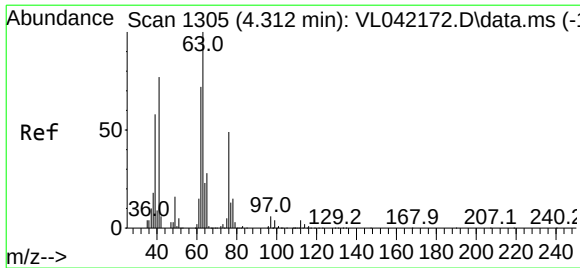


#38  
Trichloroethene  
Concen: 9.045 ppbv  
RT: 4.545 min Scan# 1377  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26



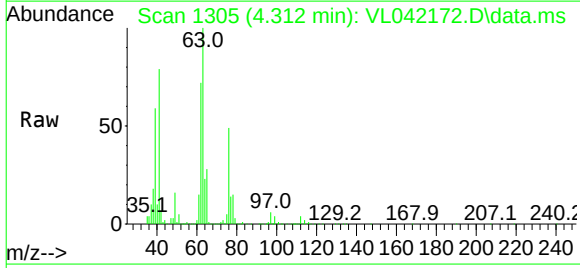
Tgt Ion:130 Resp: 204027  
Ion Ratio Lower Upper  
130 100  
95 112.3 89.8 134.8  
132 96.8 77.4 116.2  
97 68.9 55.1 82.7





#39  
1,2-Dichloropropane  
Concen: 9.321 ppbv  
RT: 4.312 min Scan# 1305  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

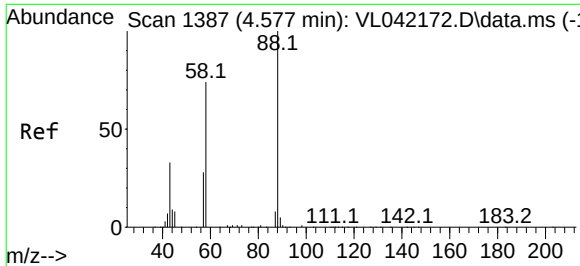
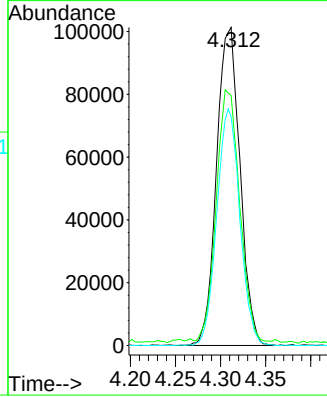
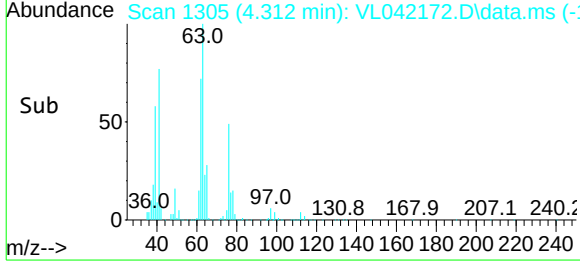
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



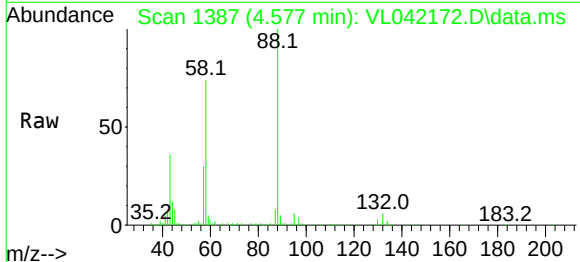
Tgt Ion: 63 Resp: 183439  
Ion Ratio Lower Upper  
63 100  
41 77.1 61.7 92.5  
62 72.0 57.6 86.4

Manual Integrations  
APPROVED

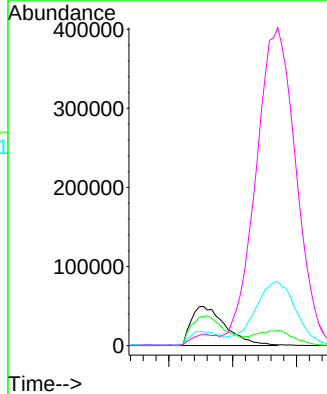
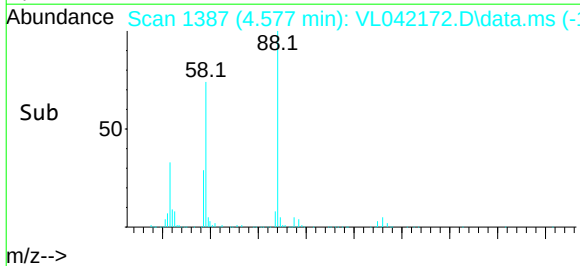
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



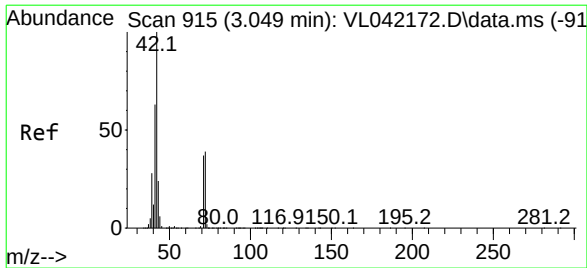
#40  
1,4-Dioxane  
Concen: 9.042 ppbv  
RT: 4.577 min Scan# 1387  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26



Tgt Ion: 88 Resp: 92327  
Ion Ratio Lower Upper  
88 100  
58 78.4 62.7 94.1  
43 28.7 23.0 34.4  
57 0.0 0.0 0.0

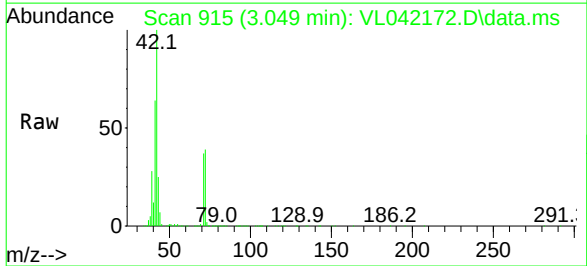






#41  
Tetrahydrofuran  
Concen: 9.643 ppbv  
RT: 3.049 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

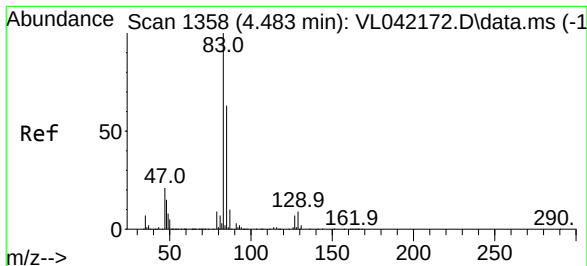
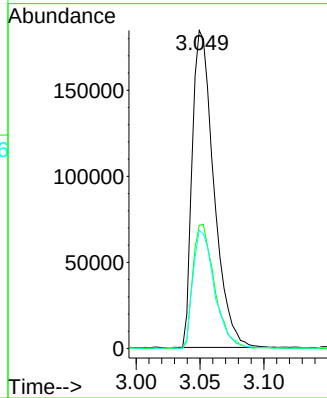
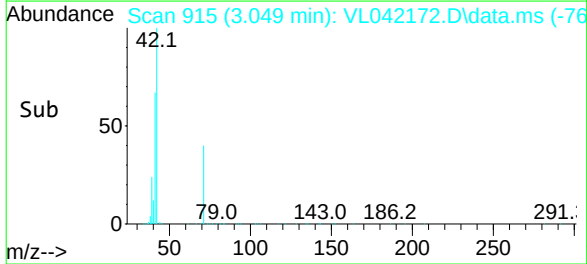
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



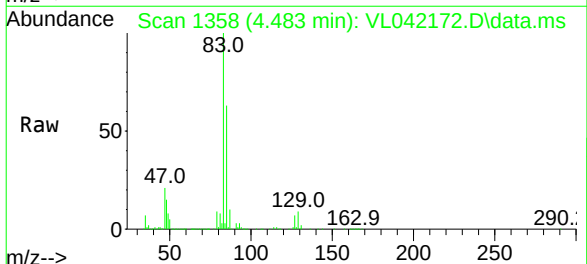
Tgt Ion: 42 Resp: 216851  
Ion Ratio Lower Upper  
42 100  
72 39.2 31.4 47.0  
71 37.8 30.2 45.4

Manual Integrations  
APPROVED

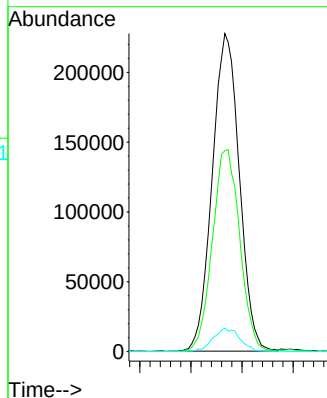
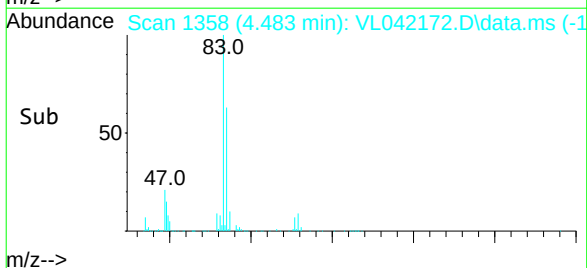
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

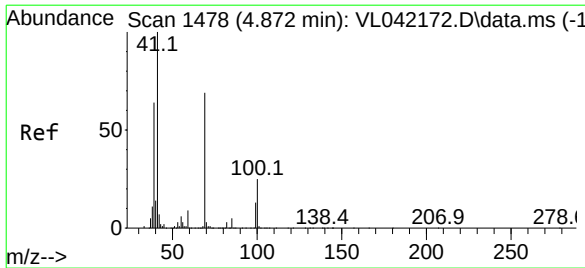


#42  
Bromodichloromethane  
Concen: 9.822 ppbv  
RT: 4.483 min Scan# 1358  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26



Tgt Ion: 83 Resp: 418887  
Ion Ratio Lower Upper  
83 100  
85 63.1 50.5 75.7  
127 7.4 5.9 8.9





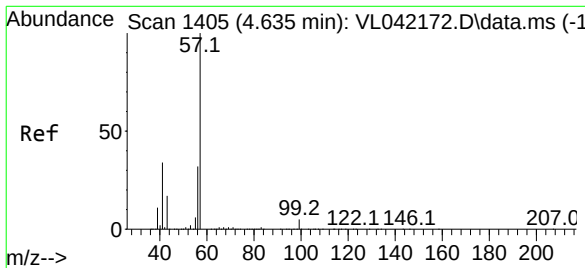
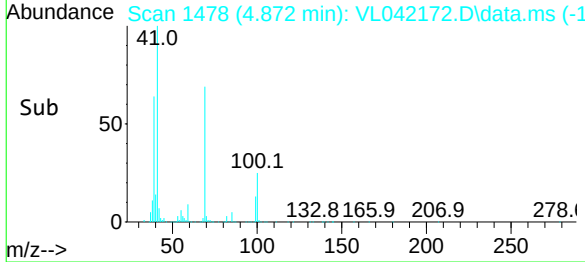
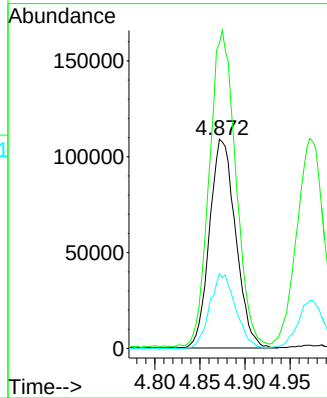
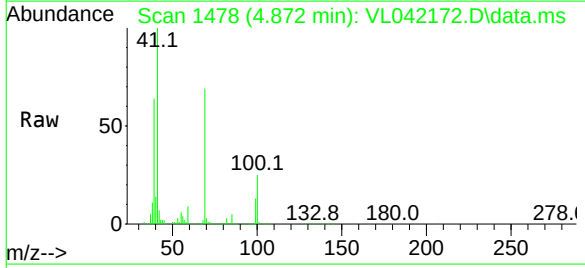
#43  
Methyl Methacrylate  
Concen: 9.618 ppbv  
RT: 4.872 min Scan# 1478  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 69 Resp: 219399  
Ion Ratio Lower Upper  
69 100  
41 154.7 123.8 185.6  
100 35.5 28.4 42.6

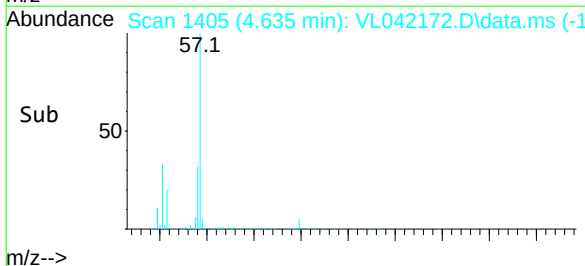
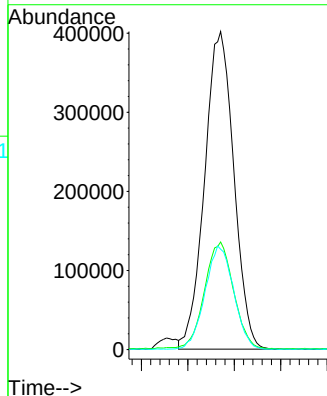
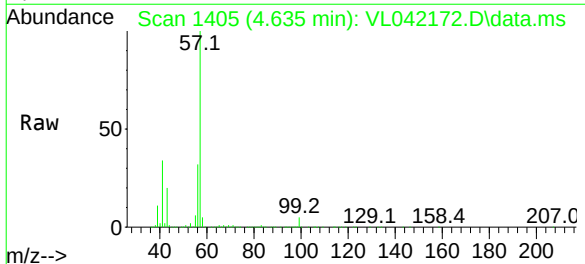
Manual Integrations  
APPROVED

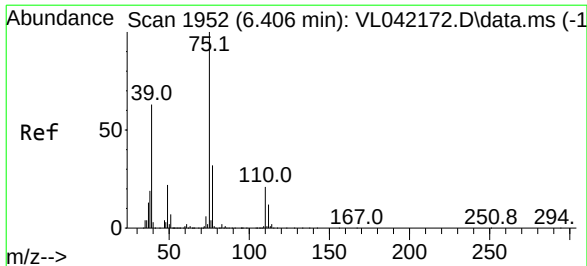
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#44  
2,2,4-Trimethylpentane  
Concen: 9.600 ppbv  
RT: 4.635 min Scan# 1405  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 57 Resp: 876649  
Ion Ratio Lower Upper  
57 100  
41 33.5 26.8 40.2  
56 32.0 25.6 38.4





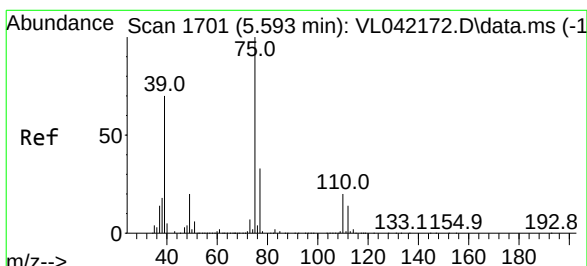
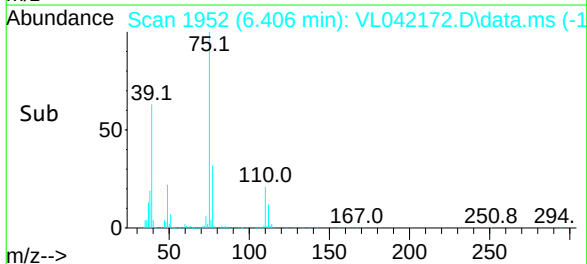
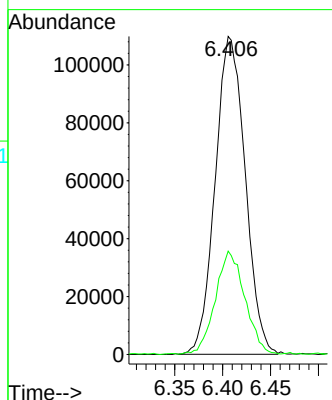
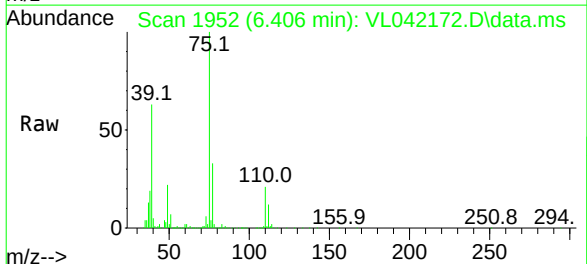
#45  
t-1,3-Dichloropropene  
Concen: 9.746 ppbv  
RT: 6.406 min Scan# 1952  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 75 Resp: 239180  
Ion Ratio Lower Upper  
75 100  
77 32.5 26.0 39.0

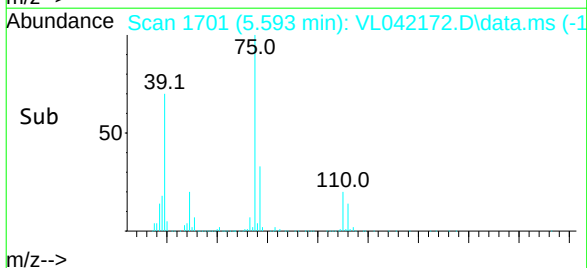
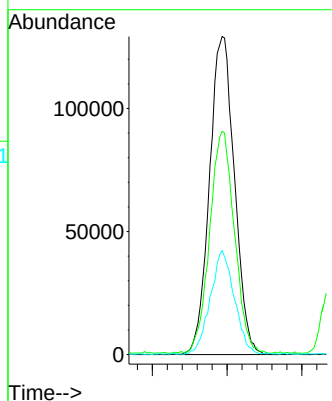
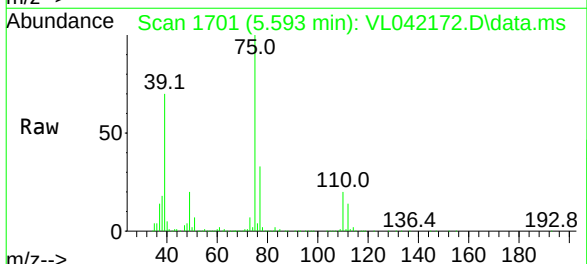
Manual Integrations  
APPROVED

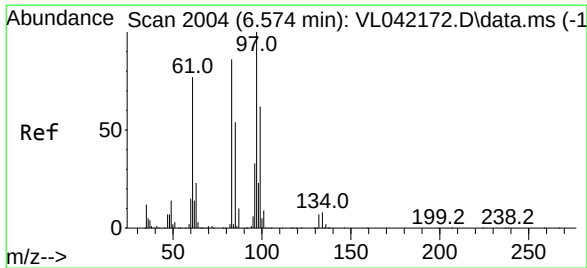
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#46  
cis-1,3-Dichloropropene  
Concen: 9.973 ppbv  
RT: 5.593 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

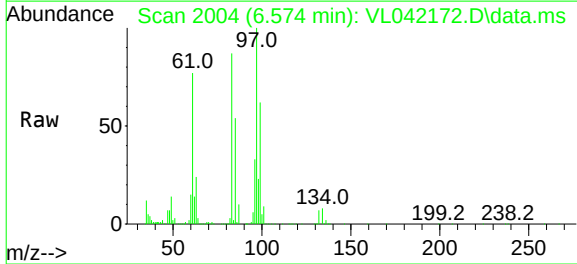
Tgt Ion: 75 Resp: 300021  
Ion Ratio Lower Upper  
75 100  
39 69.7 55.8 83.6  
77 32.5 26.0 39.0





#47  
1,1,2-Trichloroethane  
Concen: 9.526 ppbv  
RT: 6.574 min Scan# 2004  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

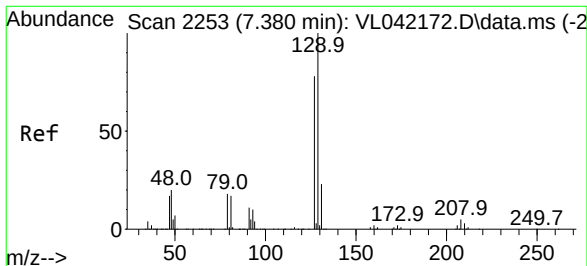
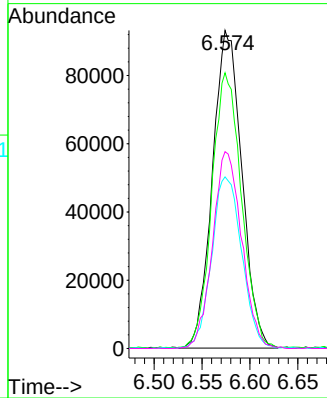
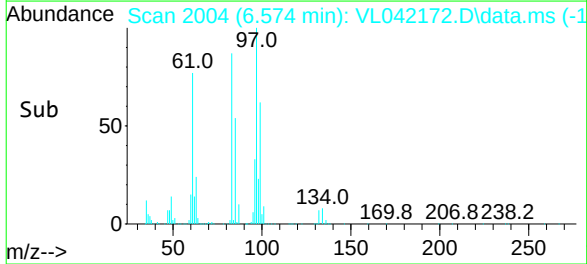
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 86.5  | 69.2  | 103.8 |
| 85      | 53.9  | 43.1  | 64.7  |
| 99      | 61.8  | 49.4  | 74.2  |

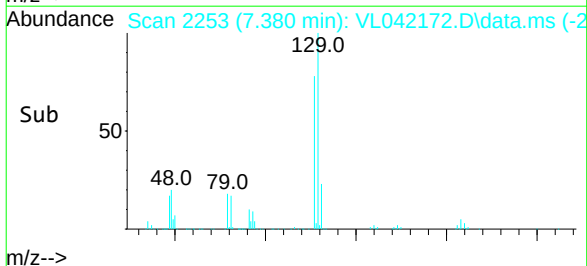
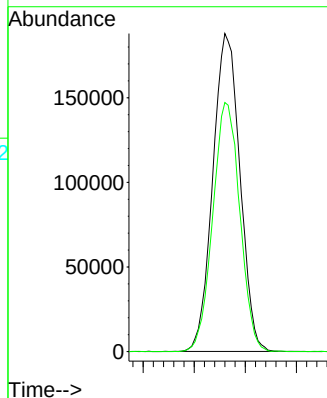
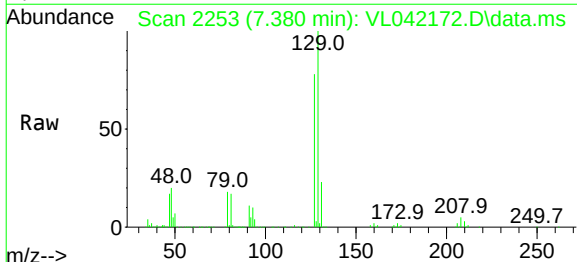
Manual Integrations  
APPROVED

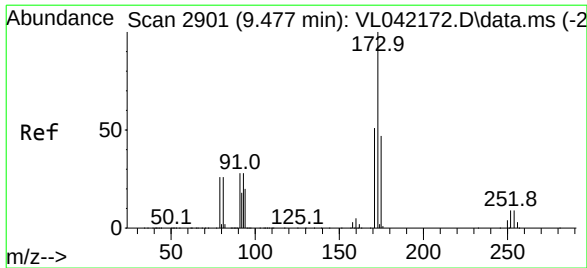
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#48  
Dibromochloromethane  
Concen: 9.828 ppbv  
RT: 7.380 min Scan# 2253  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 78.1  | 39.1  | 117.2 |





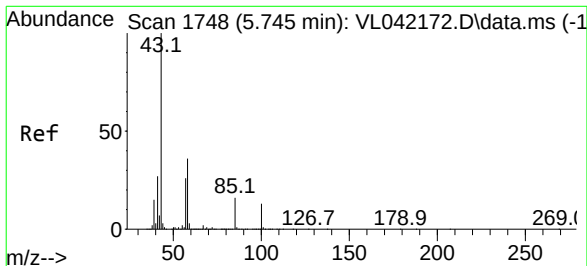
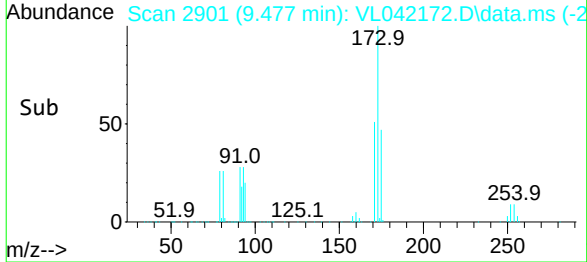
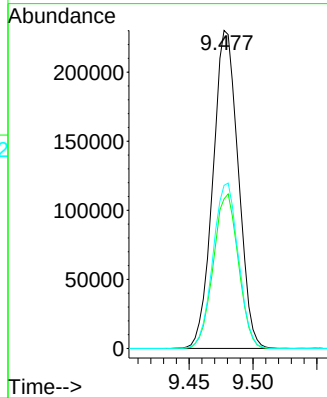
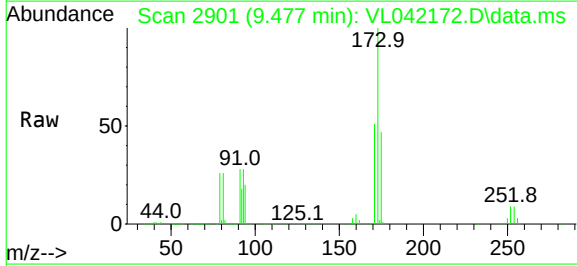
#49  
Bromoform  
Concen: 10.021 ppbv  
RT: 9.477 min Scan# 2901  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 173 Resp: 317189  
Ion Ratio Lower Upper  
173 100  
175 48.2 38.6 57.8  
171 52.2 41.8 62.6

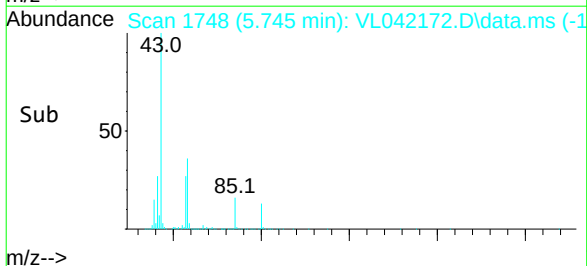
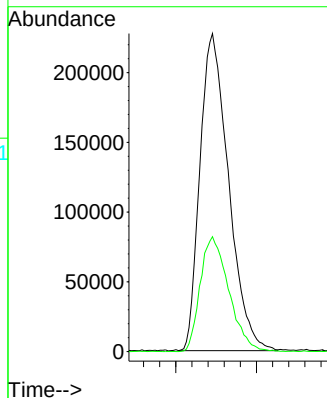
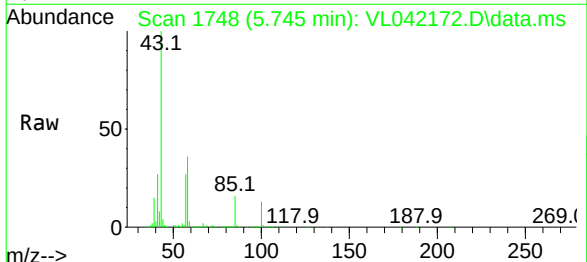
Manual Integrations  
APPROVED

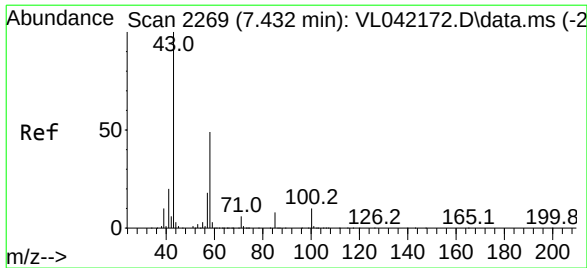
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025



#50  
4-Methyl-2-Pentanone  
Concen: 8.934 ppbv  
RT: 5.745 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

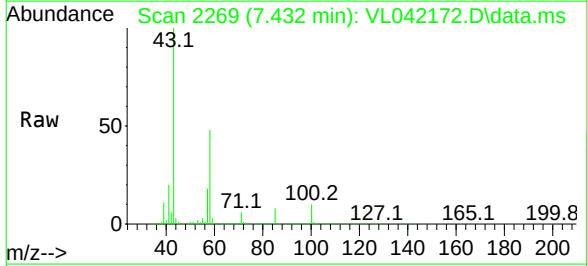
Tgt Ion: 43 Resp: 559800  
Ion Ratio Lower Upper  
43 100  
58 36.3 29.0 43.6





#51  
2-Hexanone  
Concen: 8.848 ppbv  
RT: 7.432 min Scan# 2269  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

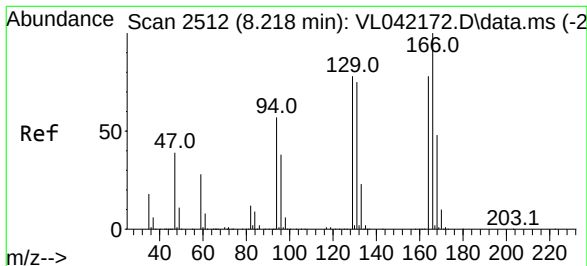
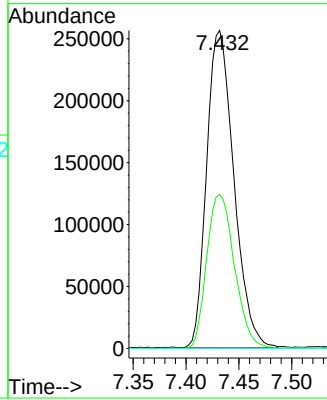
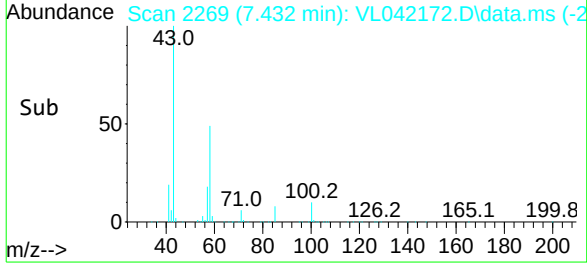
Instrument : MSVOA\_L  
ClientSampleId : VSTDICCC010



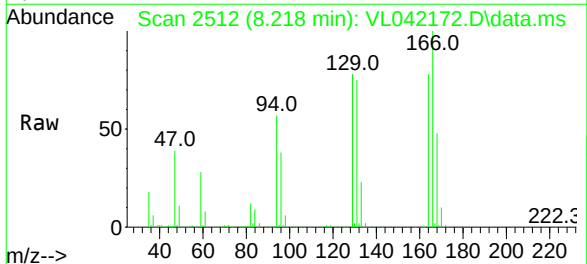
Tgt Ion: 43 Resp: 460013  
Ion Ratio Lower Upper  
43 100  
58 49.6 39.7 59.5  
98 0.1 0.1 0.1

Manual Integrations  
APPROVED

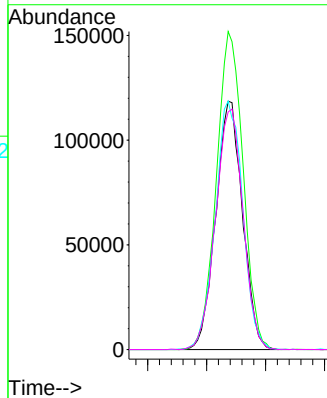
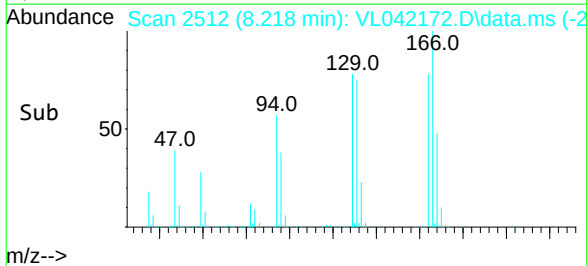
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

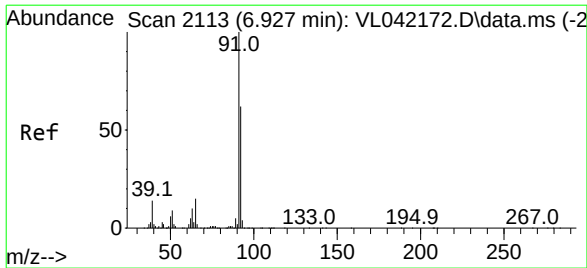


#52  
Tetrachloroethene  
Concen: 8.722 ppbv  
RT: 8.218 min Scan# 2512  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26



Tgt Ion:164 Resp: 186912  
Ion Ratio Lower Upper  
164 100  
166 128.1 102.5 153.7  
129 99.8 79.8 119.8  
131 95.7 76.6 114.8





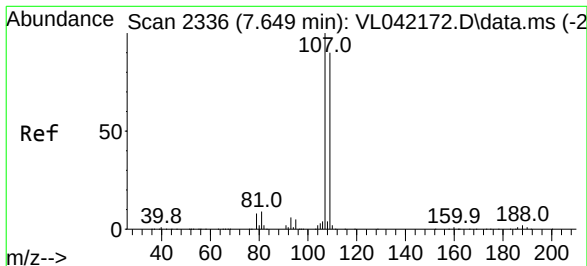
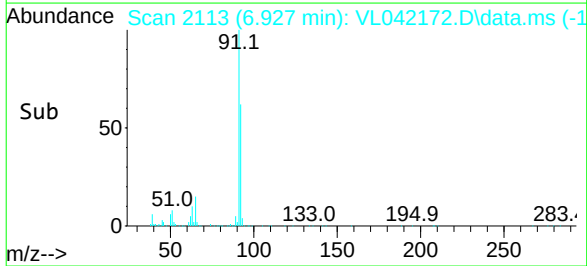
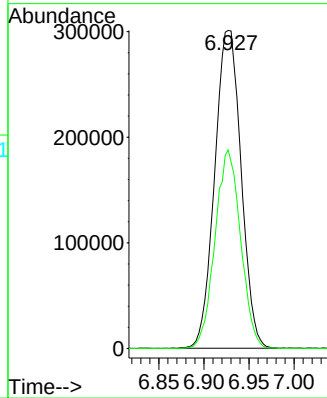
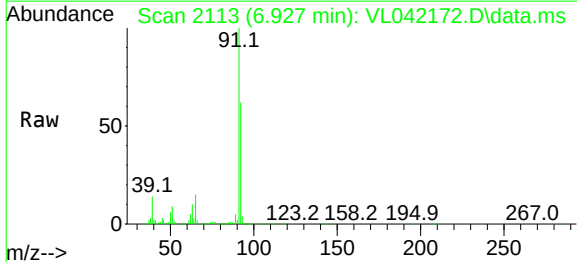
#53  
Toluene  
Concen: 9.576 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 91 Resp: 613378  
Ion Ratio Lower Upper  
91 100  
92 60.5 48.4 72.6

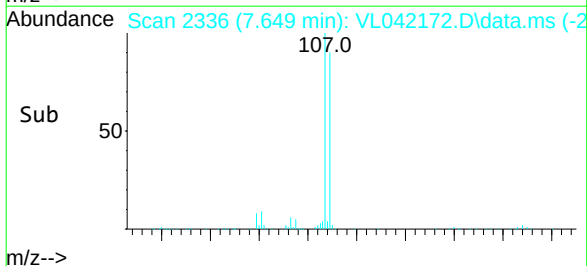
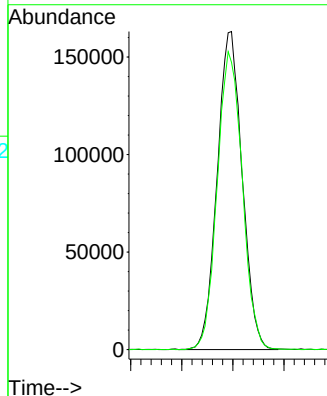
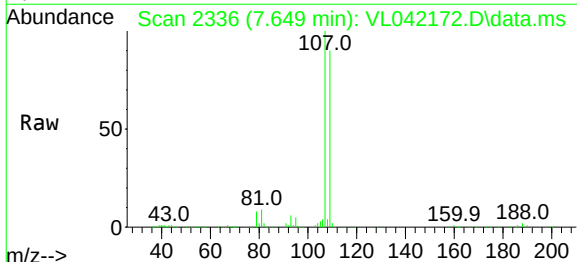
Manual Integrations  
APPROVED

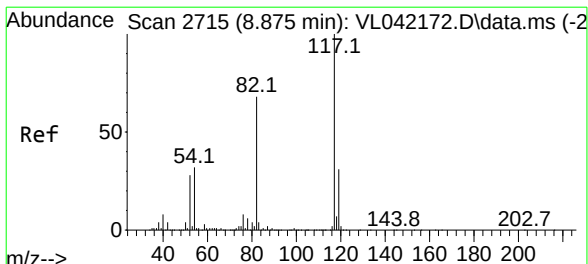
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#54  
1,2-Dibromoethane  
Concen: 9.536 ppbv  
RT: 7.649 min Scan# 2336  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

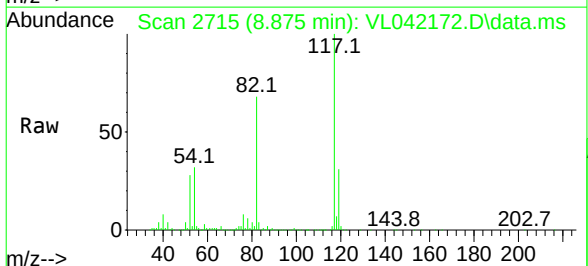
Tgt Ion:107 Resp: 276797  
Ion Ratio Lower Upper  
107 100  
109 90.3 72.2 108.4





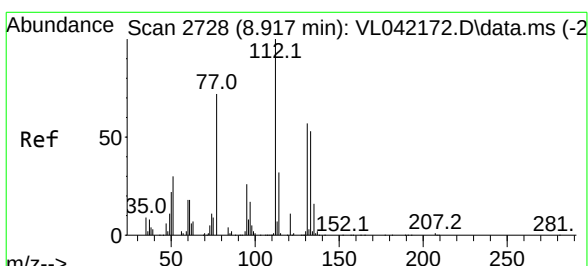
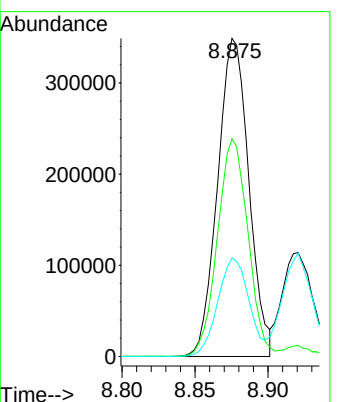
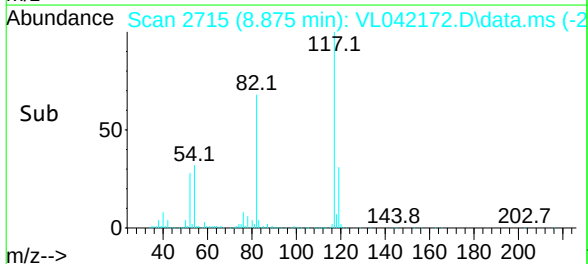
#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 8.875 min Scan# 2715  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

Instrument : MSVOA\_L  
 ClientSampleId : VSTDICCC010

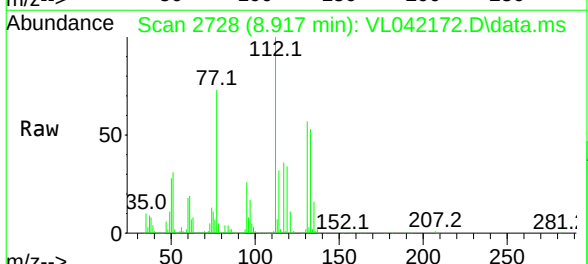


|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 519536 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 69.7  | 55.8  | 83.6   |
| 119      | 31.9  | 25.5  | 38.3   |

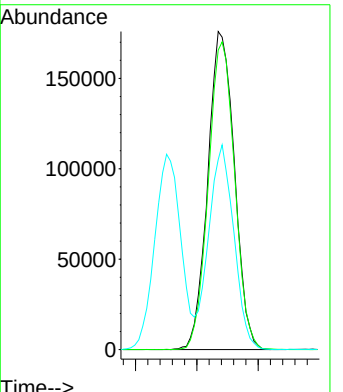
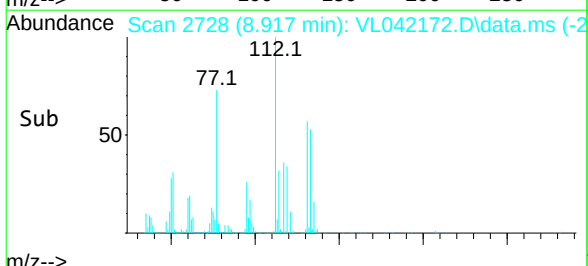
Manual Integrations  
**APPROVED**  
 Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



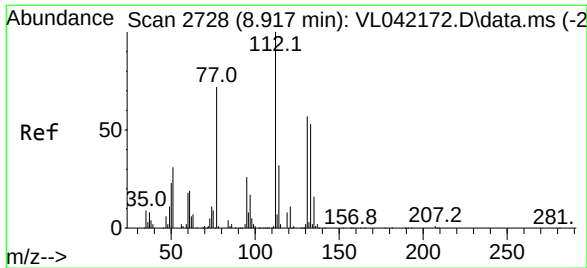
#56  
 1,1,1,2-Tetrachloroethane  
 Concen: 9.268 ppbv  
 RT: 8.917 min Scan# 2728  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 131   | Resp: | 265037 |
| Ion      | Ratio | Lower | Upper  |
| 131      | 100   |       |        |
| 133      | 95.7  | 76.6  | 114.8  |
| 119      | 62.2  | 49.8  | 74.6   |

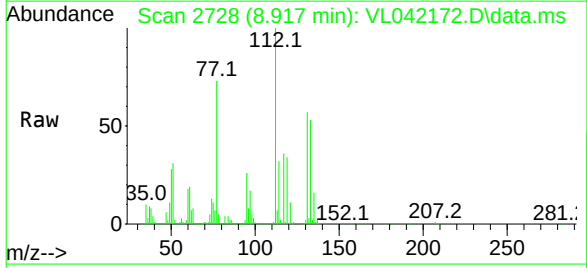






#57  
Chlorobenzene  
Concen: 9.223 ppbv  
RT: 8.917 min Scan# 2728  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

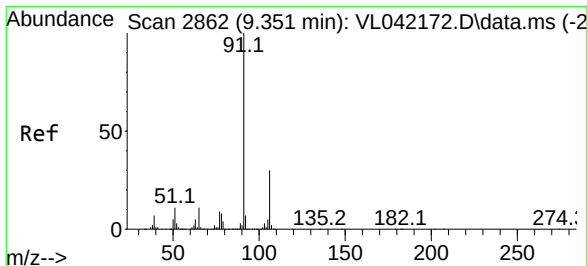
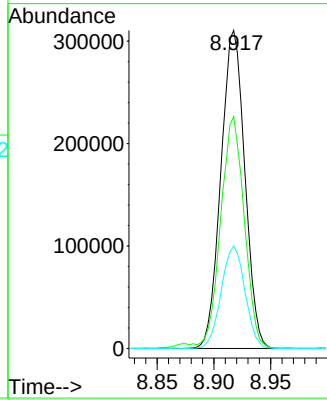
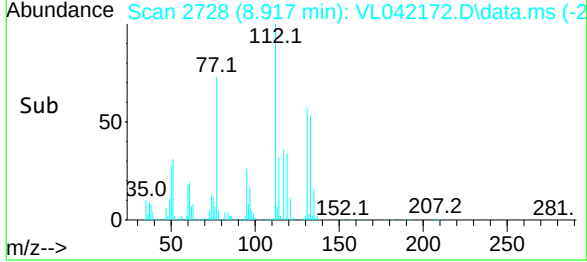
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



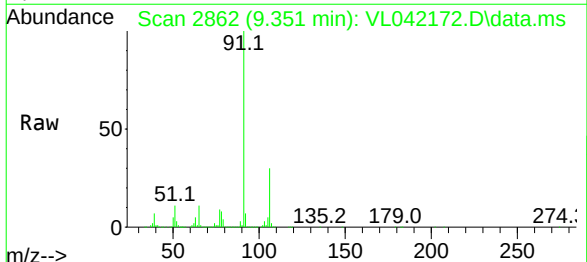
Tgt Ion: 112 Resp: 454511  
Ion Ratio Lower Upper  
112 100  
77 72.7 58.2 87.2  
114 32.3 29.1 35.5

Manual Integrations  
APPROVED

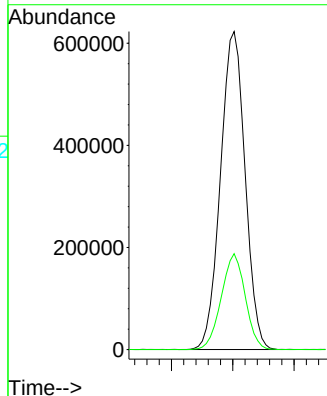
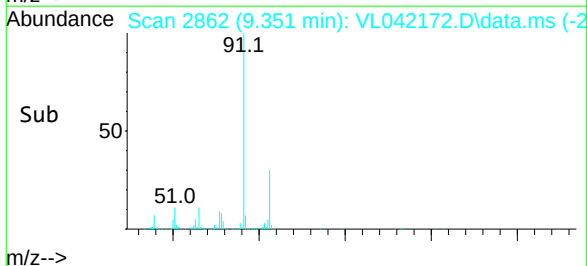
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

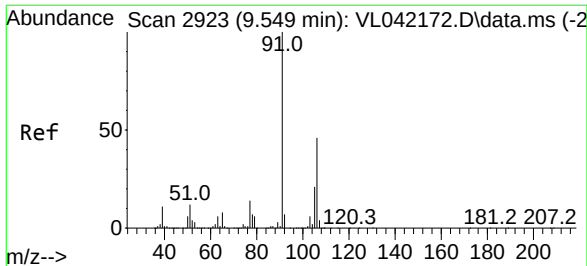


#58  
Ethyl Benzene  
Concen: 9.406 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26



Tgt Ion: 91 Resp: 868003  
Ion Ratio Lower Upper  
91 100  
106 30.2 24.2 36.2





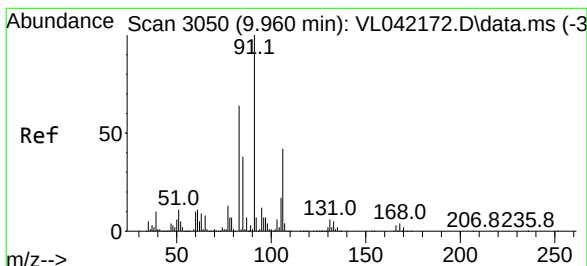
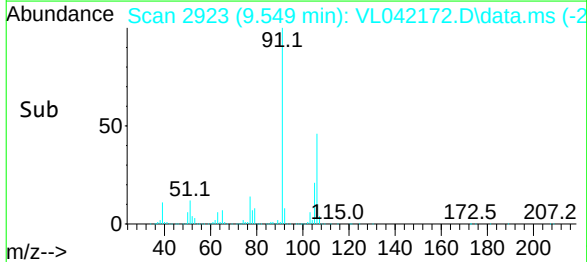
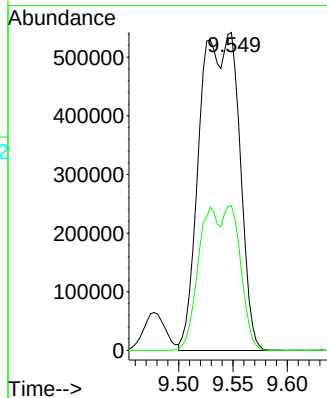
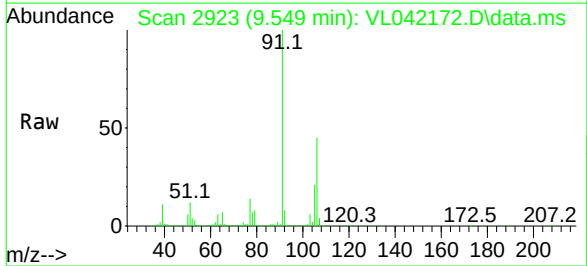
#59  
m/p-Xylene  
Concen: 18.607 ppbv m  
RT: 9.549 min Scan# 2923  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 91 Resp: 1372806  
Ion Ratio Lower Upper  
91 100  
106 45.5 36.4 54.6

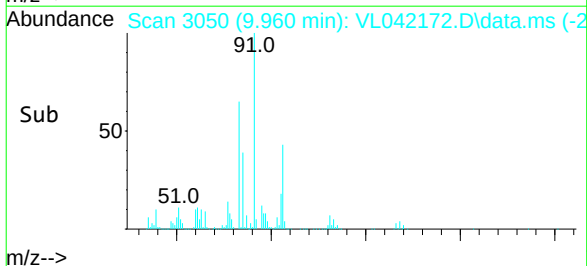
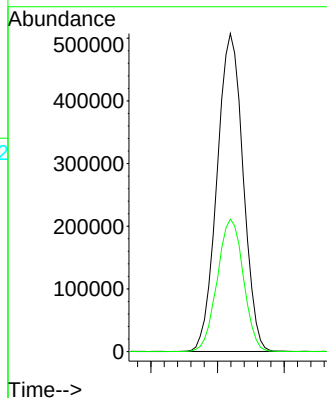
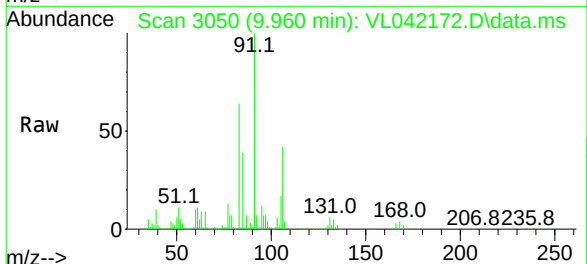
Manual Integrations  
APPROVED

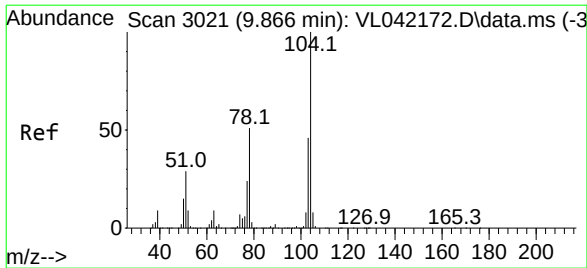
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#60  
o-Xylene  
Concen: 9.340 ppbv  
RT: 9.960 min Scan# 3050  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 689933  
Ion Ratio Lower Upper  
91 100  
106 41.7 20.8 62.5





#61

Styrene

Concen: 9.706 ppbv

RT: 9.866 min Scan# 3021

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA\_L

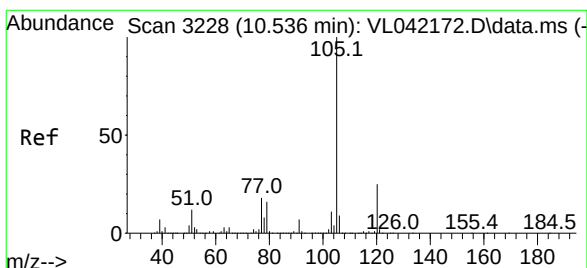
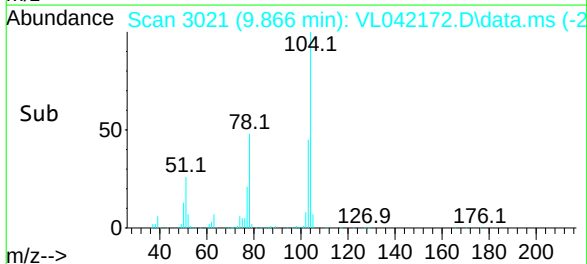
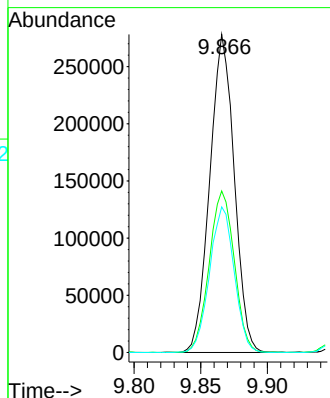
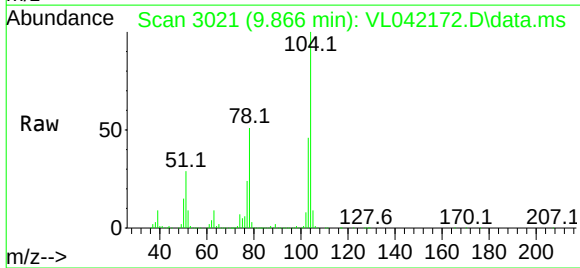
ClientSampleId :

VSTDICCC010

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 104   | Resp: | 354697 |
| Ion Ratio | Lower | Upper |        |
| 104       | 100   |       |        |
| 78        | 52.2  | 41.8  | 62.6   |
| 103       | 46.2  | 37.0  | 55.4   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#62

Isopropylbenzene

Concen: 9.227 ppbv

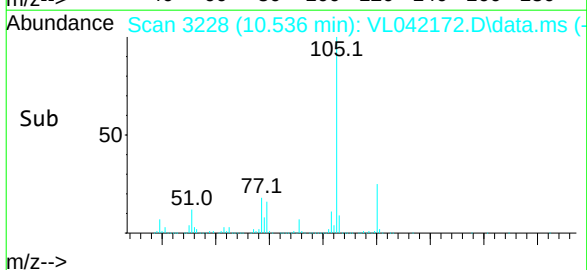
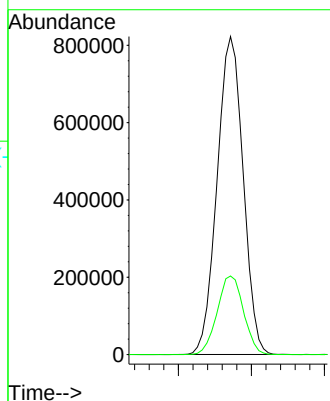
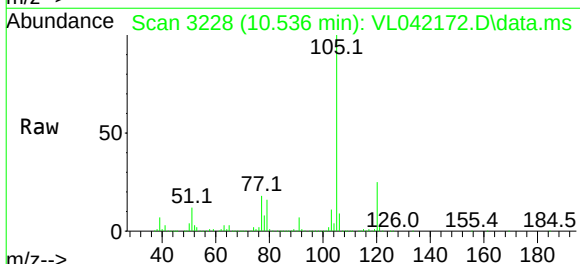
RT: 10.536 min Scan# 3228

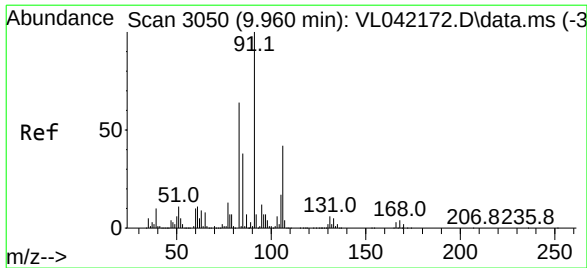
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

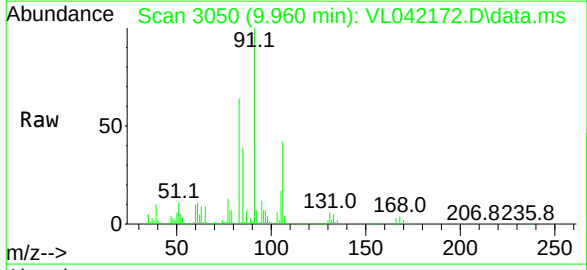
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 105   | Resp: | 1019255 |
| Ion Ratio | Lower | Upper |         |
| 105       | 100   |       |         |
| 120       | 24.9  | 19.9  | 29.9    |





#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.210 ppbv  
RT: 9.960 min Scan# 3050  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

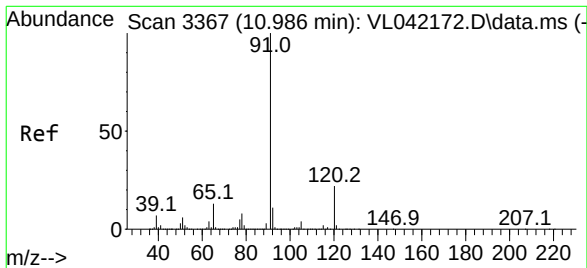
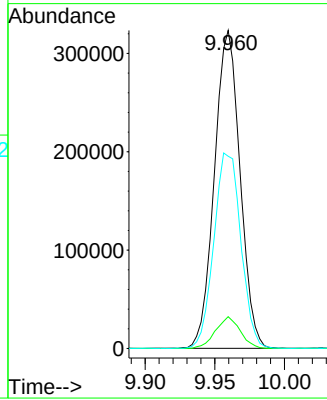
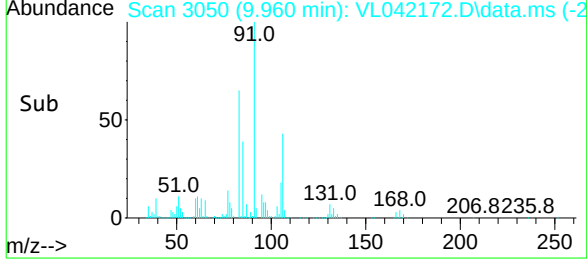
Instrument : MSVOA\_1  
ClientSampleId : VSTDICCC010



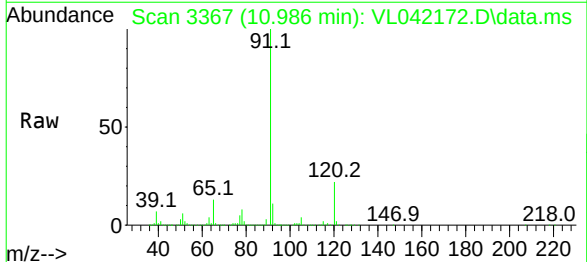
Tgt Ion: 83 Resp: 413392  
Ion Ratio Lower Upper  
83 100  
131 9.6 4.8 14.4  
85 65.0 32.5 97.5

Manual Integrations  
APPROVED

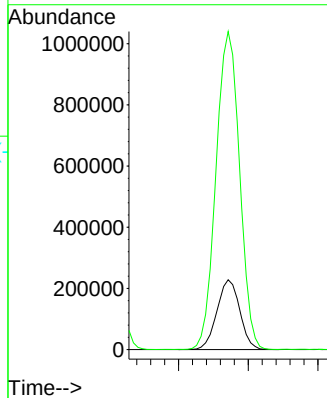
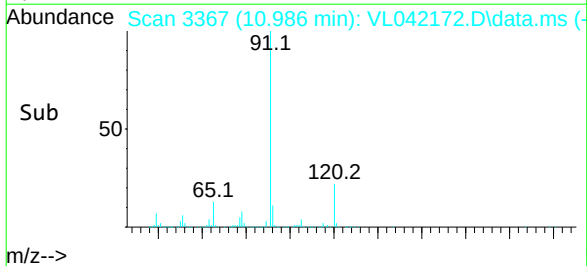
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

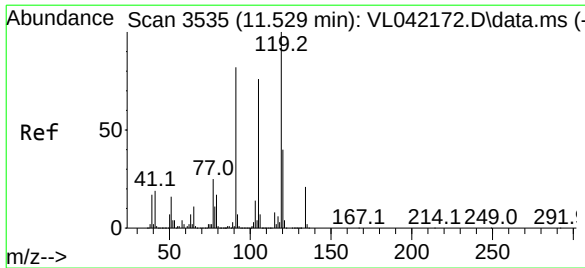


#64  
n-propylbenzene  
Concen: 9.122 ppbv  
RT: 10.986 min Scan# 3367  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26



Tgt Ion:120 Resp: 259405  
Ion Ratio Lower Upper  
120 100  
91 471.1 376.9 565.3





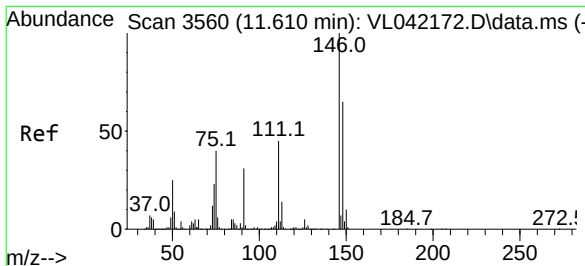
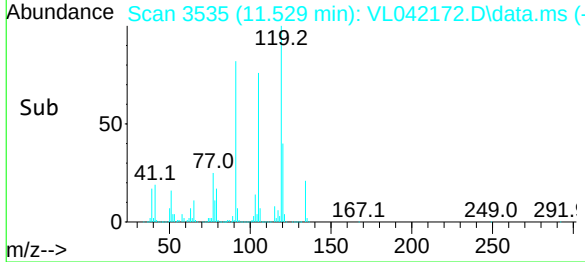
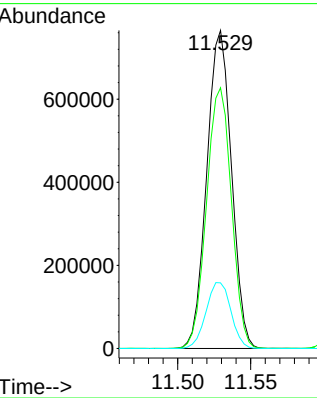
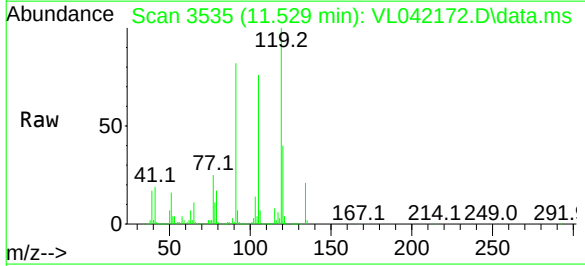
#65  
tert-Butylbenzene  
Concen: 8.828 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 119   | Resp: | 901951 |
| Ion      | Ratio | Lower | Upper  |
| 119      | 100   |       |        |
| 91       | 82.5  | 66.0  | 99.0   |
| 134      | 20.9  | 16.7  | 25.1   |

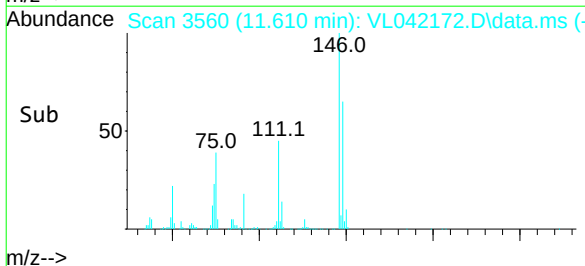
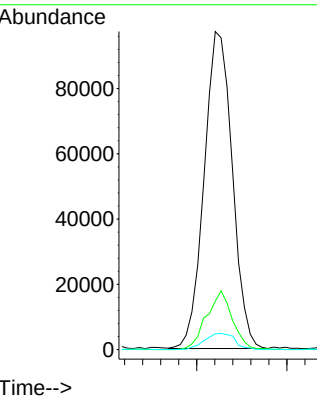
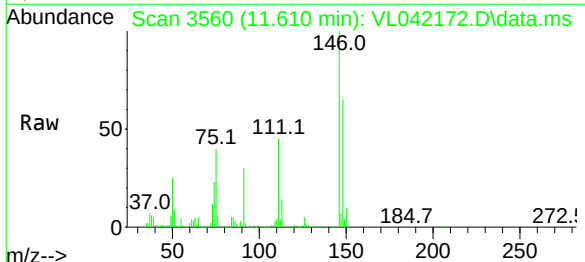
Manual Integrations  
APPROVED

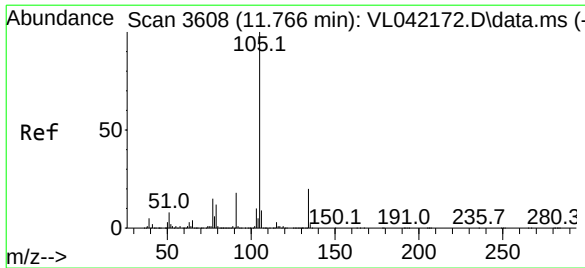
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#66  
Benzyl Chloride  
Concen: 9.724 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

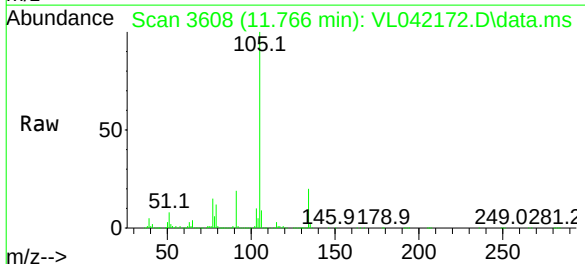
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 105411 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 126      | 17.2  | 13.8  | 20.6   |
| 128      | 5.6   | 4.5   | 6.7    |





#67  
 sec-Butylbenzene  
 Concen: 8.796 ppbv  
 RT: 11.766 min Scan# 3608  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

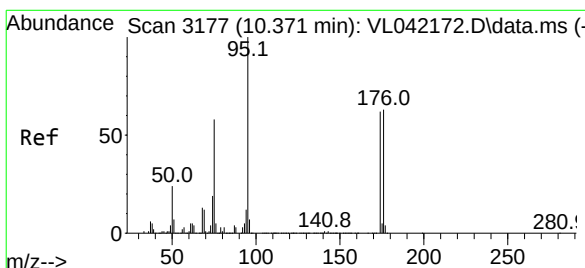
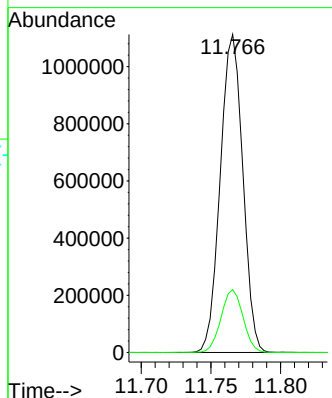
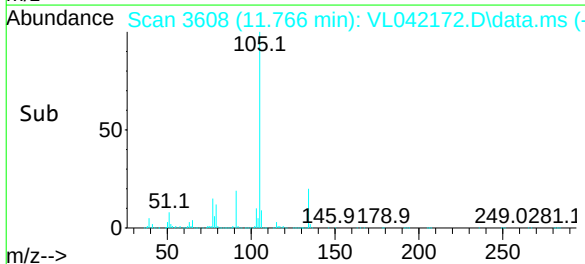
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010



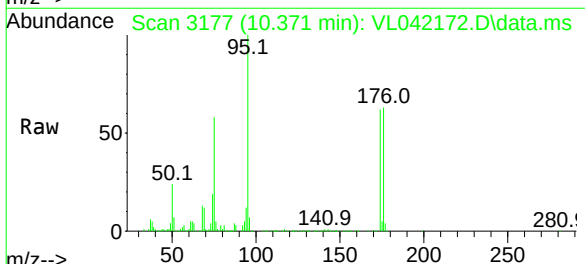
Tgt Ion: 105 Resp: 1249106  
 Ion Ratio Lower Upper  
 105 100  
 134 19.4 15.5 23.3

Manual Integrations  
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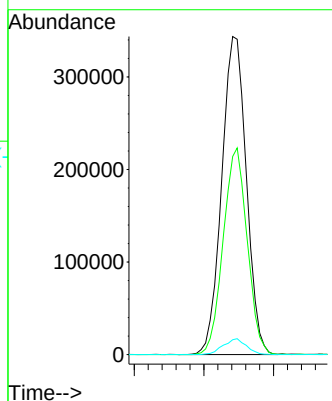
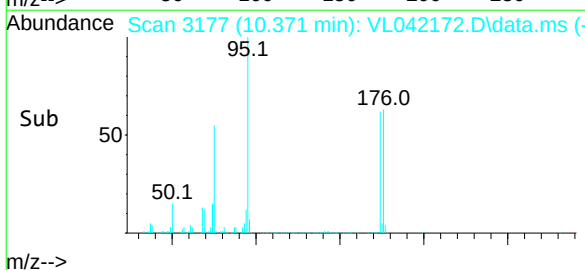
Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

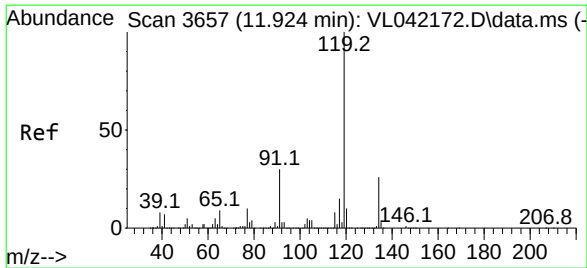


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.901 ppbv  
 RT: 10.371 min Scan# 3177  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26



Tgt Ion: 95 Resp: 422410  
 Ion Ratio Lower Upper  
 95 100  
 174 63.3 50.6 76.0  
 175 4.7 3.8 5.6





#69

p-Isopropyltoluene

Concen: 8.830 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. 0.000 min

Lab File: VL042172.D

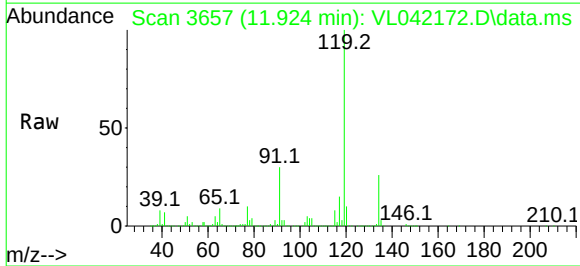
Acq: 27 Mar 2025 08:26

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010



Tgt Ion: 119 Resp: 1079675

Ion Ratio Lower Upper

119 100

134 25.5 20.4 30.6

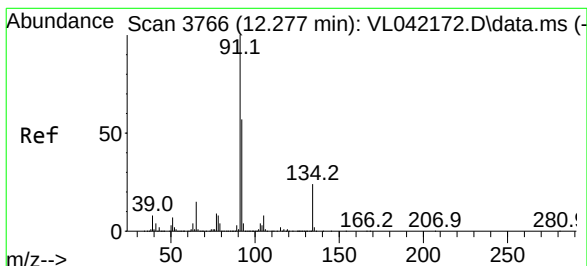
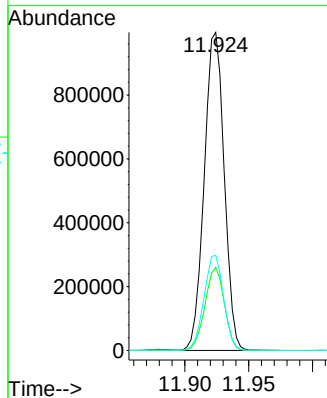
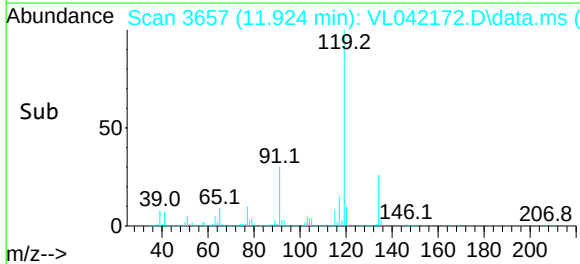
91 29.6 23.7 35.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#70

n-Butylbenzene

Concen: 8.879 ppbv

RT: 12.277 min Scan# 3766

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

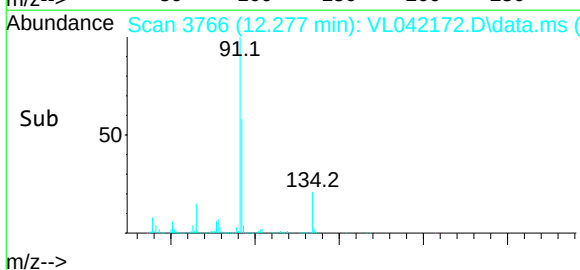
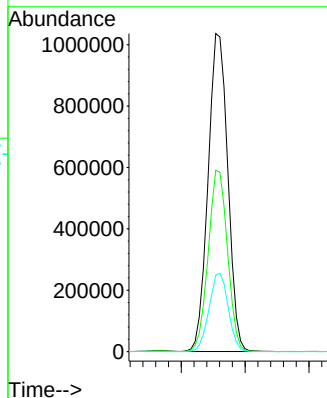
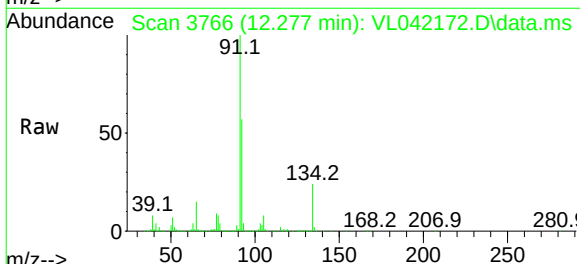
Tgt Ion: 91 Resp: 1110351

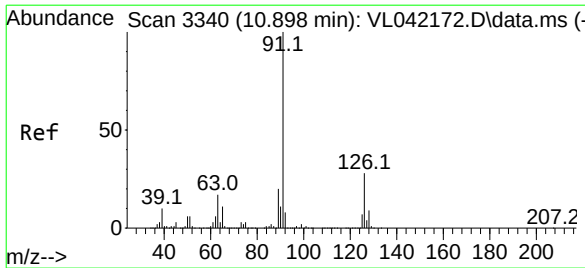
Ion Ratio Lower Upper

91 100

92 56.1 44.9 67.3

134 24.0 19.2 28.8





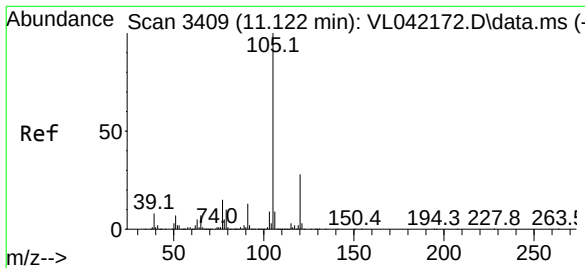
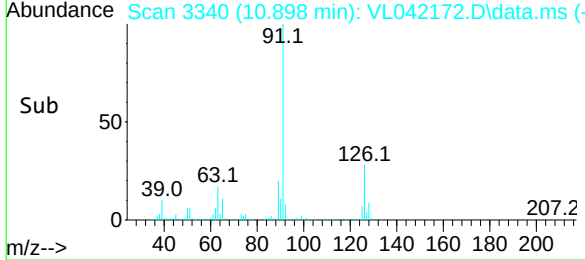
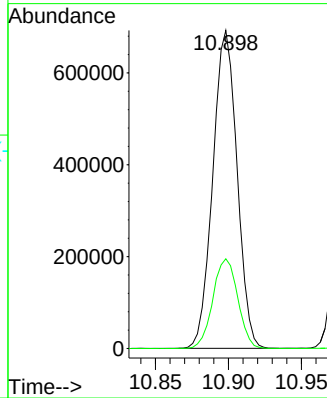
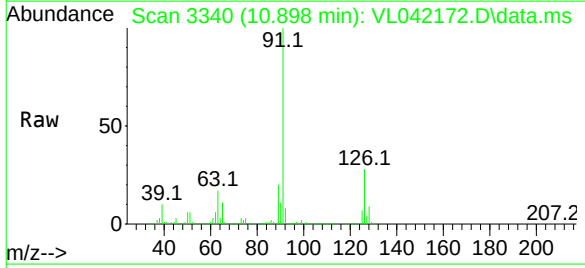
#71  
2-Chlorotoluene  
Concen: 9.320 ppbv  
RT: 10.898 min Scan# 3340  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 91 Resp: 799102  
Ion Ratio Lower Upper  
91 100  
126 29.0 11.6 46.4

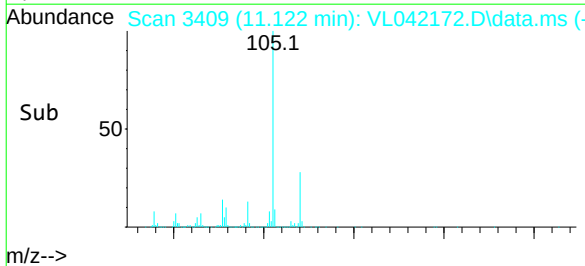
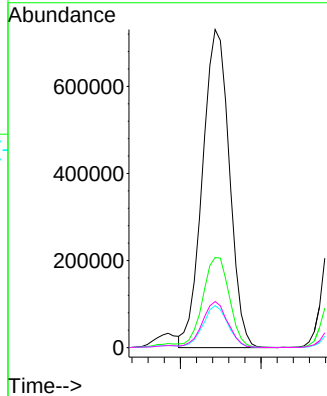
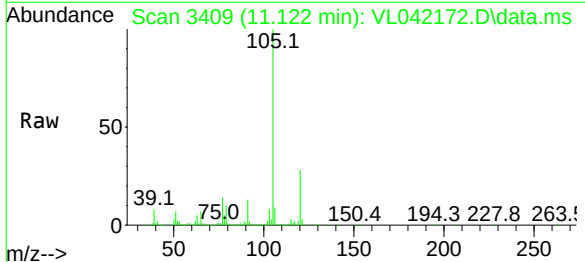
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Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

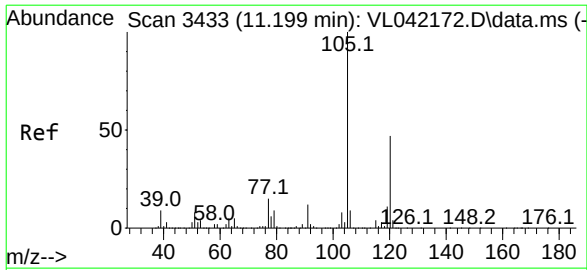


#72  
4-Ethyltoluene  
Concen: 9.200 ppbv  
RT: 11.122 min Scan# 3409  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 846232  
Ion Ratio Lower Upper  
105 100  
120 29.2 23.4 35.0  
91 12.9 10.3 15.5  
77 14.3 11.4 17.2

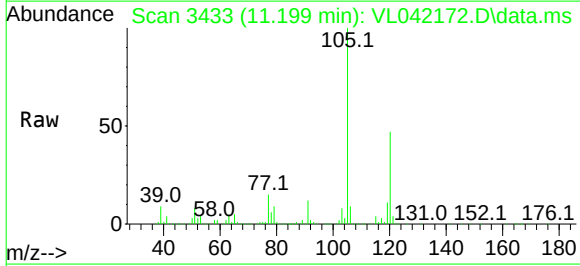






#73  
1,3,5-Trimethylbenzene  
Concen: 8.970 ppbv  
RT: 11.199 min Scan# 3433  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

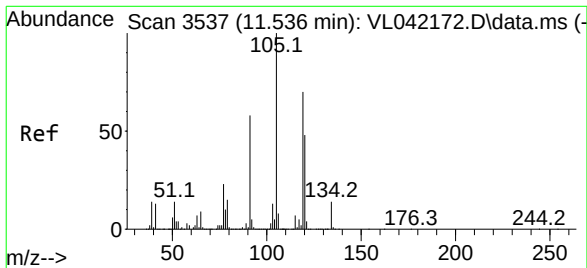
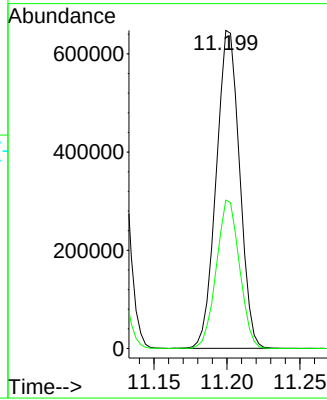
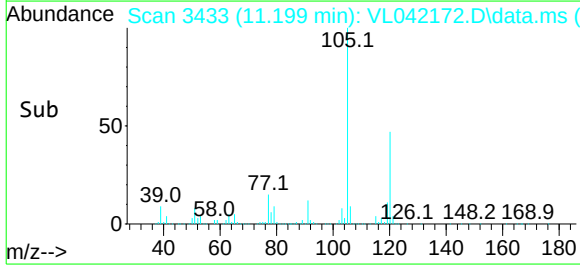
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



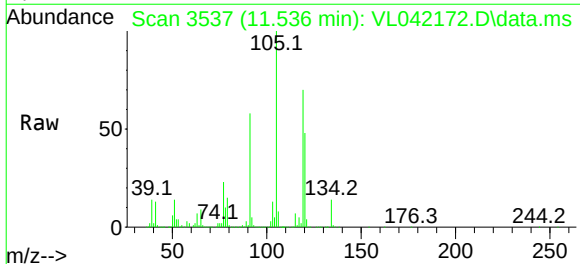
Tgt Ion:105 Resp: 720566  
Ion Ratio Lower Upper  
105 100  
120 46.7 37.4 56.0

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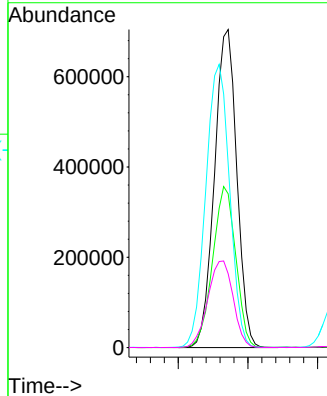
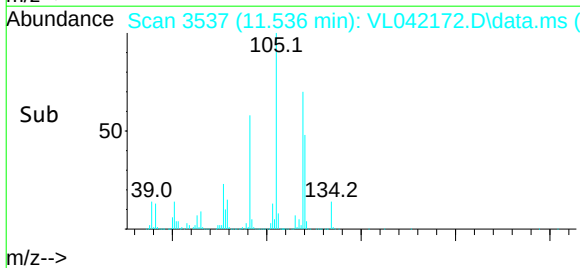
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

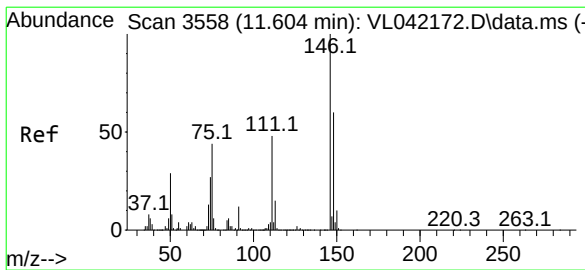


#74  
1,2,4-Trimethylbenzene  
Concen: 8.480 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26



Tgt Ion:105 Resp: 784745  
Ion Ratio Lower Upper  
105 100  
120 48.3 38.6 58.0  
91 57.7 46.2 69.2  
77 23.2 18.6 27.8





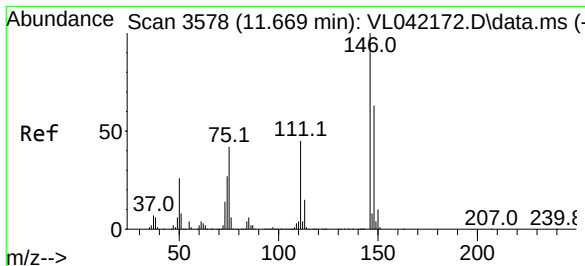
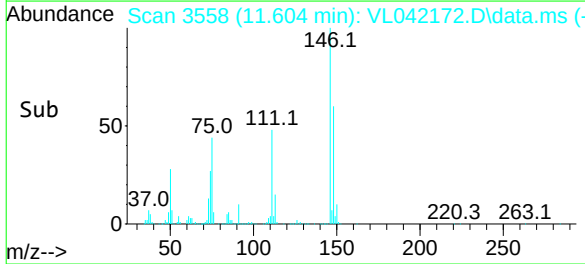
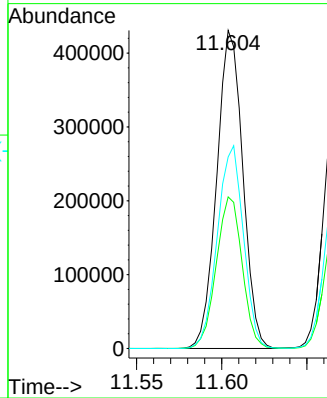
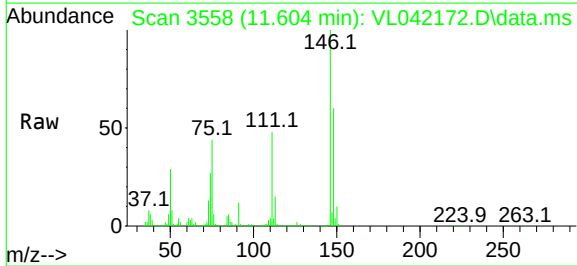
#75  
1,3-Dichlorobenzene  
Concen: 9.028 ppbv  
RT: 11.604 min Scan# 3558  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion:146 Resp: 458226  
Ion Ratio Lower Upper  
146 100  
111 47.5 23.8 71.2  
148 63.9 31.9 95.9

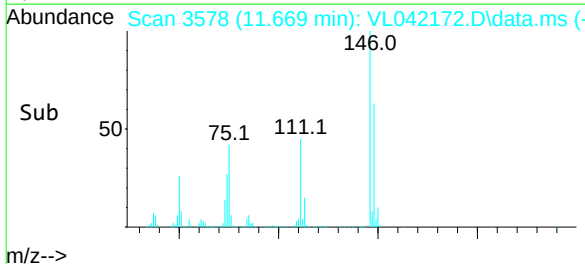
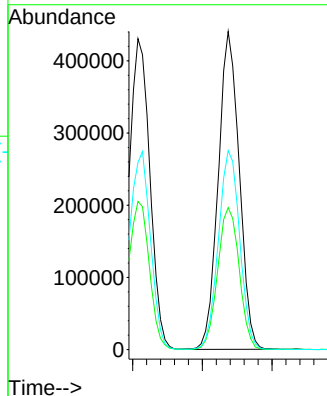
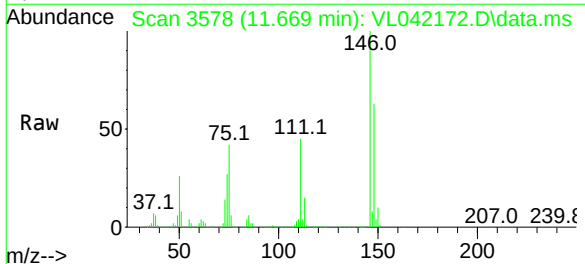
Manual Integrations  
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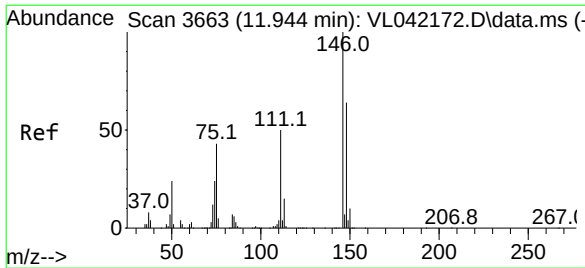
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#76  
1,4-Dichlorobenzene  
Concen: 9.134 ppbv  
RT: 11.669 min Scan# 3578  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion:146 Resp: 461371  
Ion Ratio Lower Upper  
146 100  
111 46.0 23.0 69.0  
148 63.8 31.9 95.7





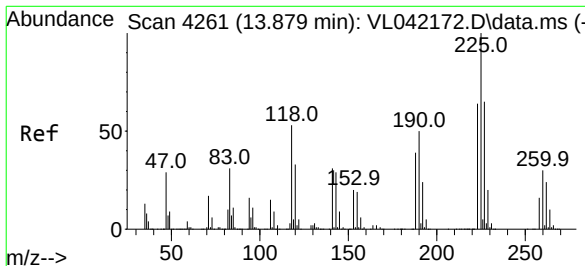
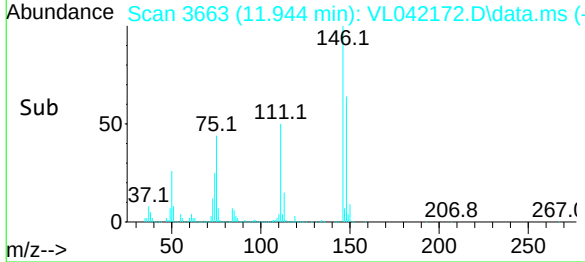
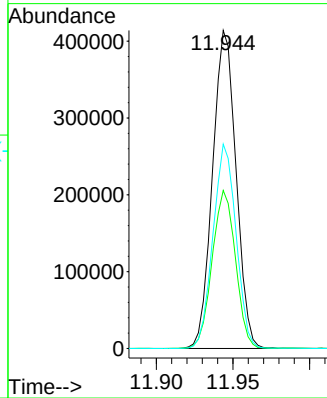
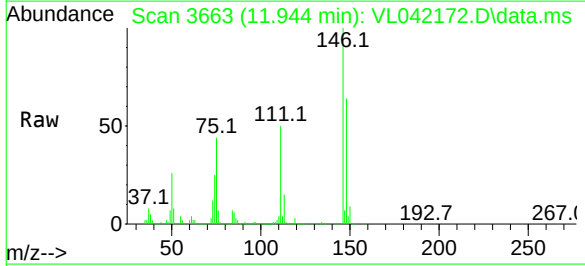
#77  
1,2-Dichlorobenzene  
Concen: 8.933 ppbv  
RT: 11.944 min Scan# 3663  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 441473 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 49.5  | 24.8  | 74.3   |
| 148       | 63.2  | 31.6  | 94.8   |

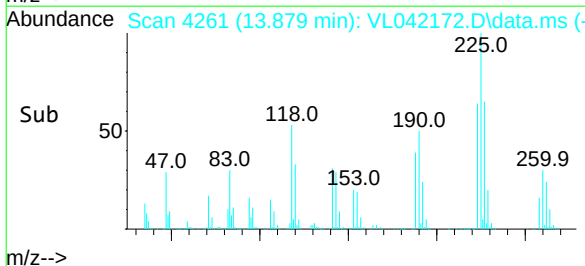
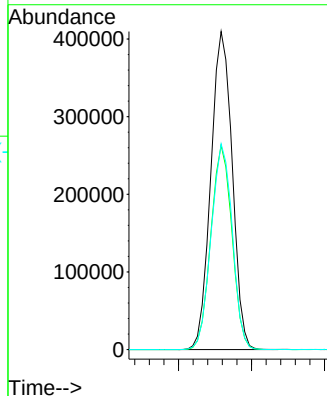
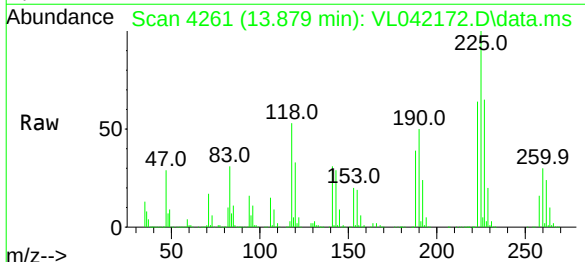
Manual Integrations  
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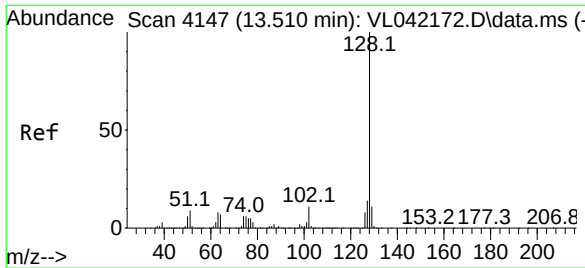
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#78  
Hexachloro-1,3-Butadiene  
Concen: 8.284 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

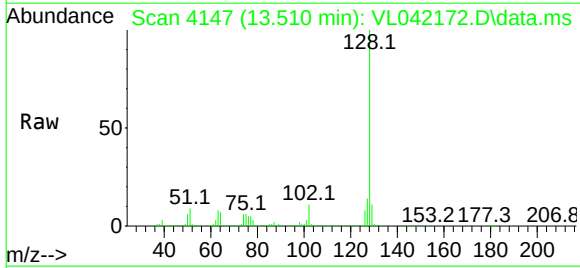
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 416735 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 63.3  | 50.6  | 76.0   |
| 227       | 64.0  | 51.2  | 76.8   |





#79  
Naphthalene  
Concen: 9.271 ppbv  
RT: 13.510 min Scan# 4147  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

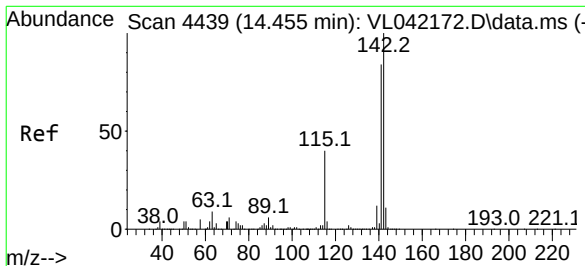
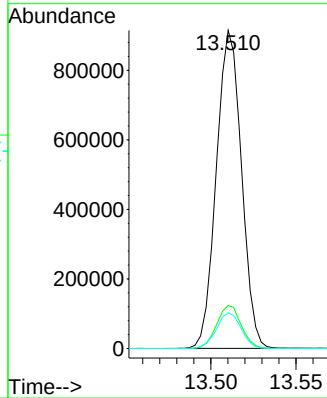
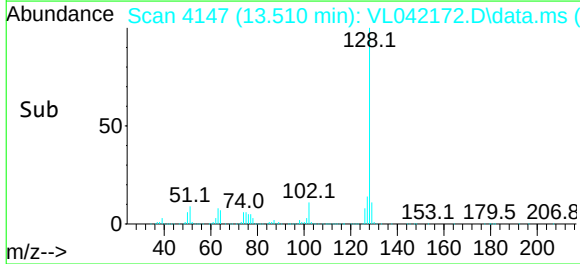
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



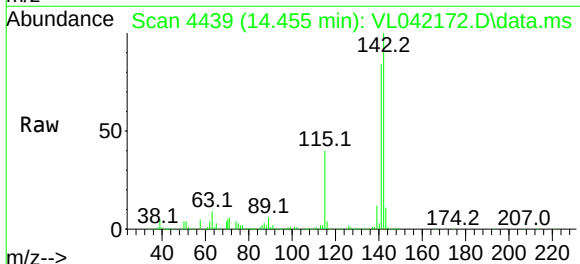
Tgt Ion: 128 Resp: 938476  
Ion Ratio Lower Upper  
128 100  
127 13.5 10.8 16.2  
129 11.2 9.0 13.4

Manual Integrations  
APPROVED

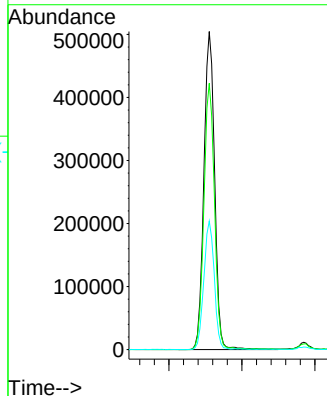
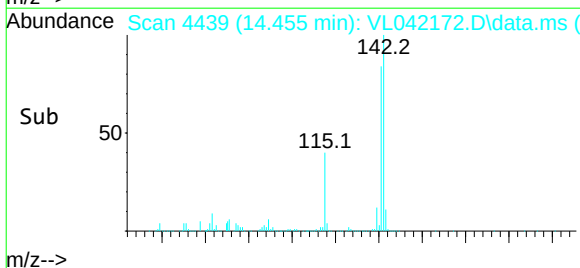
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

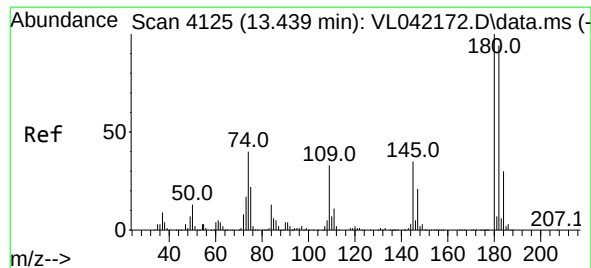


#80  
Naphthalene, 2-methyl-  
Concen: 10.436 ppbv  
RT: 14.455 min Scan# 4439  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26



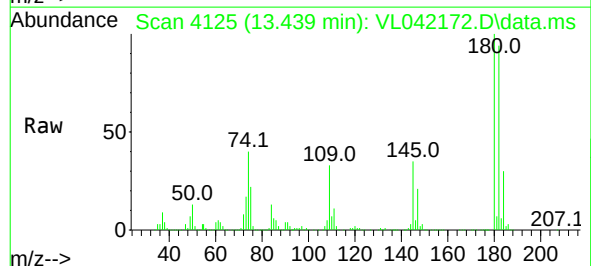
Tgt Ion: 142 Resp: 514394  
Ion Ratio Lower Upper  
142 100  
141 82.9 66.3 99.5  
115 39.5 31.6 47.4





#81  
1,2,4-Trichlorobenzene  
Concen: 9.561 ppbv  
RT: 13.439 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

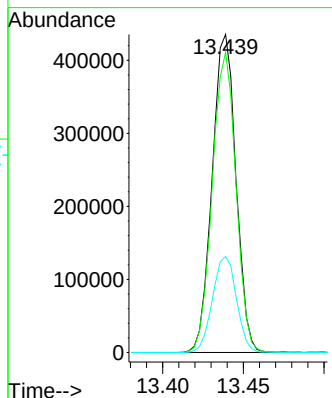
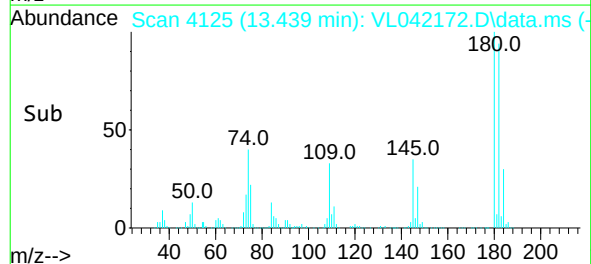
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion:180 Resp: 446420  
Ion Ratio Lower Upper  
180 100  
182 93.9 75.1 112.7  
184 30.5 24.4 36.6

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



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

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

### 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    | 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

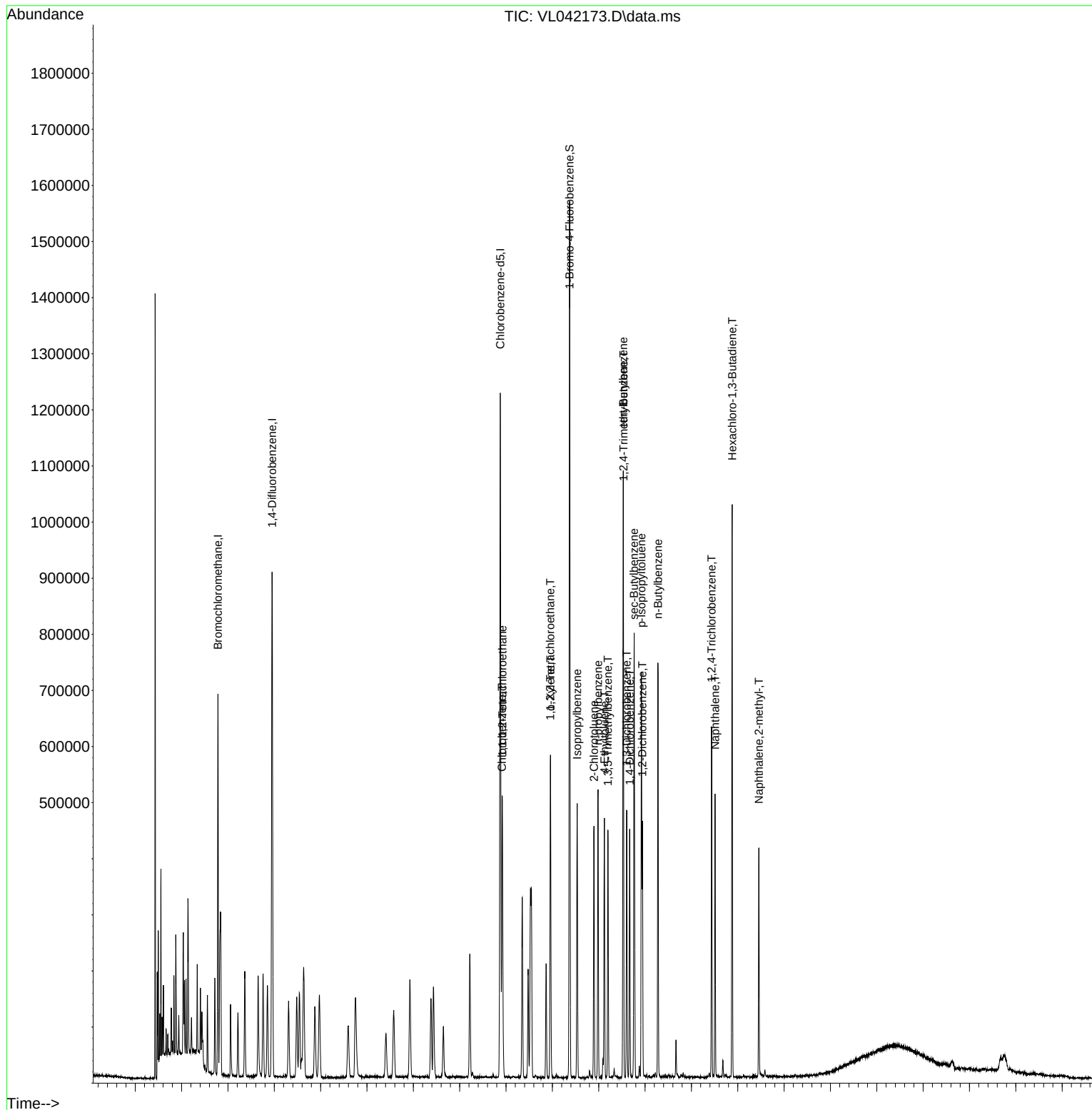
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Data File : VL042173.D  
Acq On : 27 Mar 2025 08:59  
Operator : SY/MD  
Sample : VSTDICC002  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

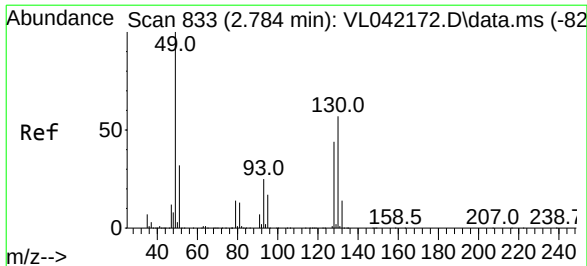
Quant Time: Mar 28 01:32:52 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

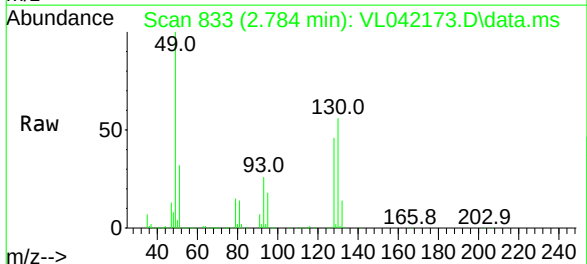






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 833  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

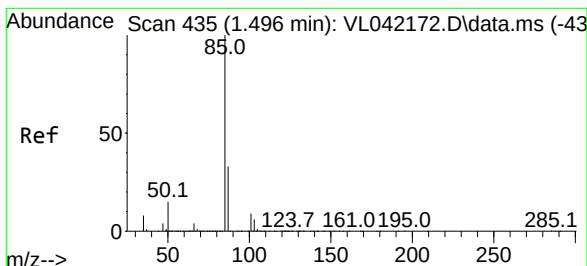
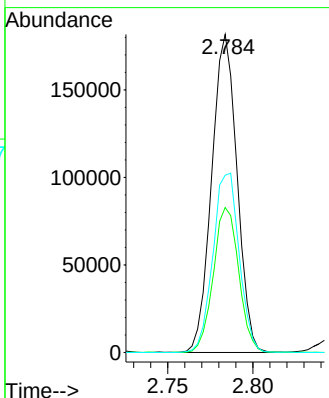
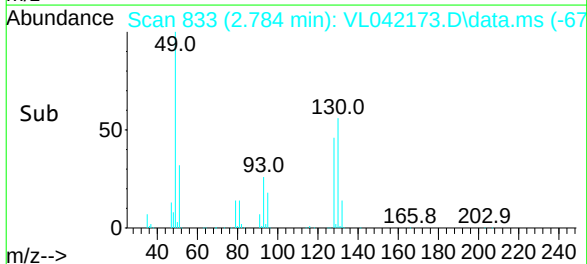
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



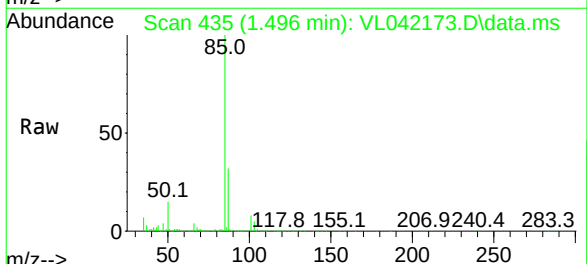
Tgt Ion: 49 Resp: 188395  
Ion Ratio Lower Upper  
49 100  
128 45.7 22.9 68.5  
130 58.5 28.8 86.4

Manual Integrations  
APPROVED

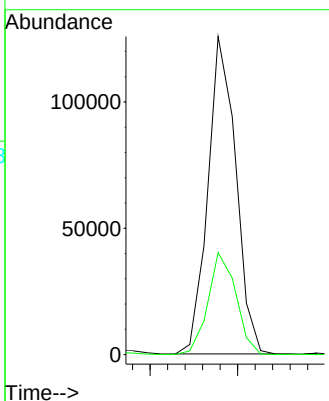
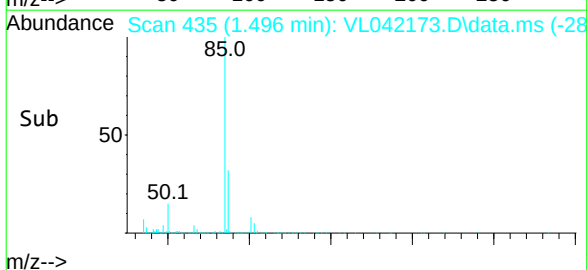
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

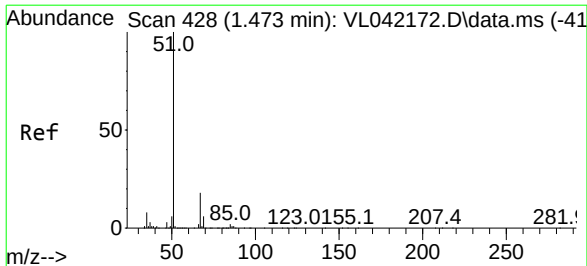


#2  
Dichlorodifluoromethane  
Concen: 2.008 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59



Tgt Ion: 85 Resp: 55859  
Ion Ratio Lower Upper  
85 100  
87 32.1 26.1 39.1





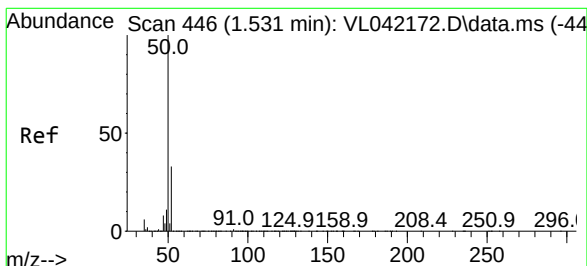
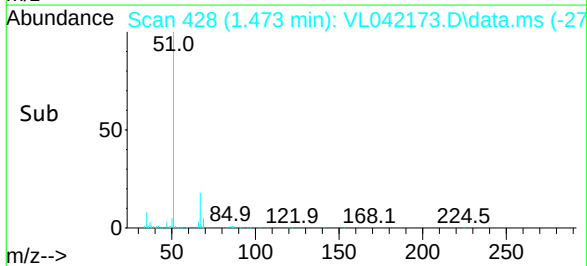
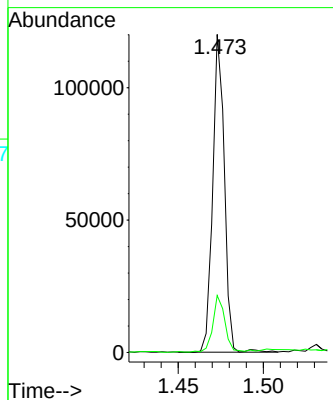
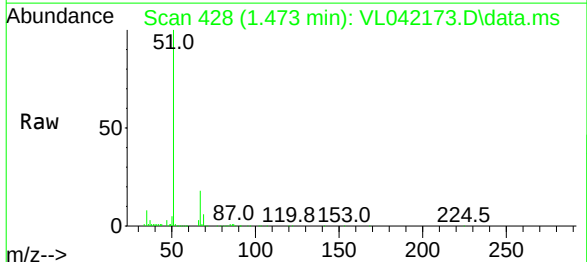
#3  
 Chlorodifluoromethane  
 Concen: 2.007 ppbv  
 RT: 1.473 min Scan# 428  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Instrument : MSVOA\_L  
 ClientSampleId : VSTDICC002

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 51    | Resp: | 57045 |
| Ion      | Ratio | Lower | Upper |
| 51       | 100   |       |       |
| 67       | 19.4  | 15.0  | 22.6  |

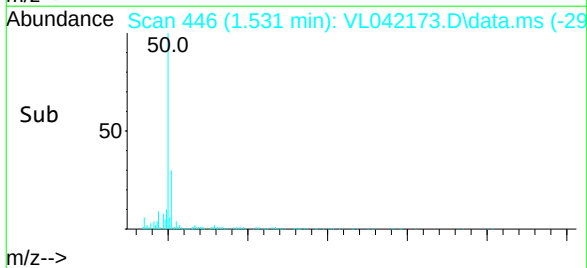
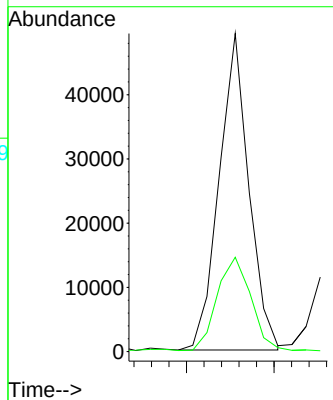
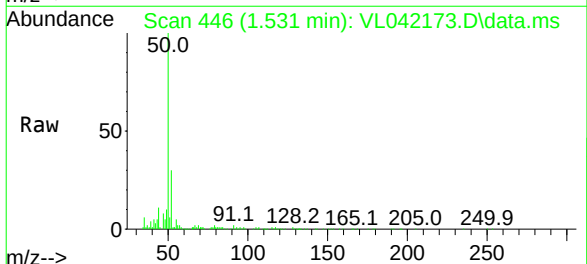
Manual Integrations  
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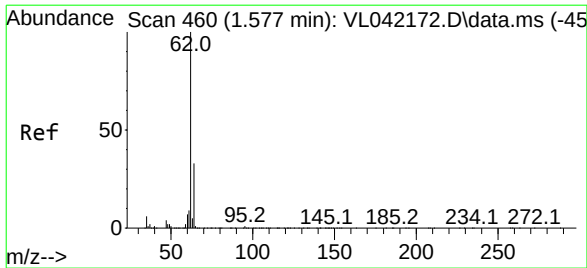
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#4  
 Chloromethane  
 Concen: 2.049 ppbv  
 RT: 1.531 min Scan# 446  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 50    | Resp: | 23293 |
| Ion      | Ratio | Lower | Upper |
| 50       | 100   |       |       |
| 52       | 29.5  | 26.1  | 39.1  |





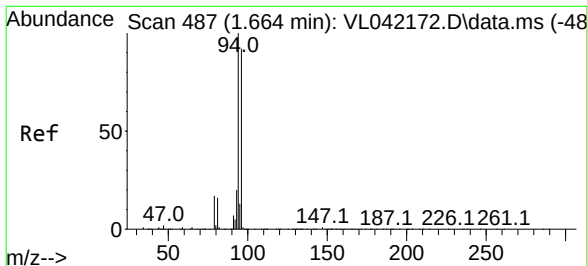
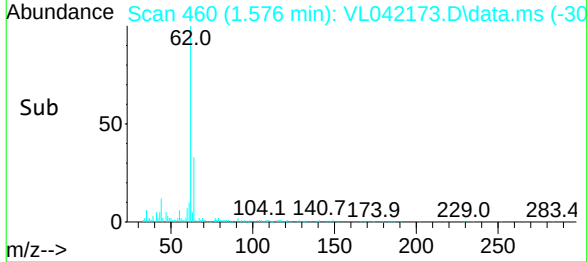
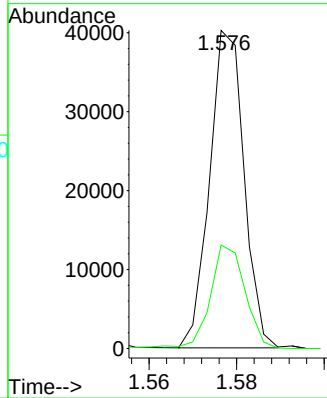
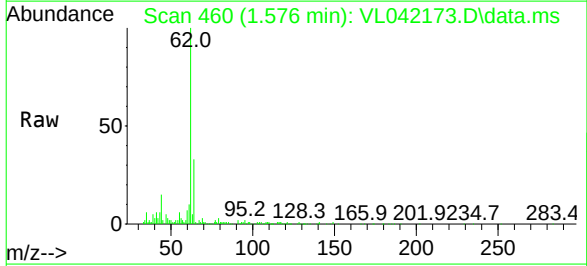
#5  
 Vinyl Chloride  
 Concen: 1.897 ppbv  
 RT: 1.576 min Scan# 460  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICC002

Tgt Ion: 62 Resp: 21989  
 Ion Ratio Lower Upper  
 62 100  
 64 32.5 26.6 40.0

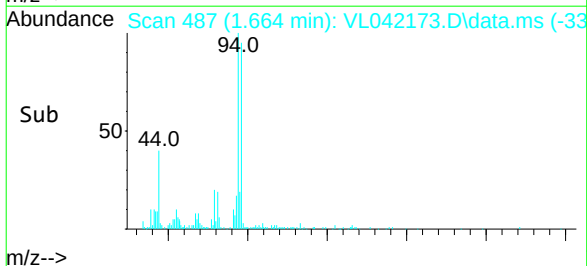
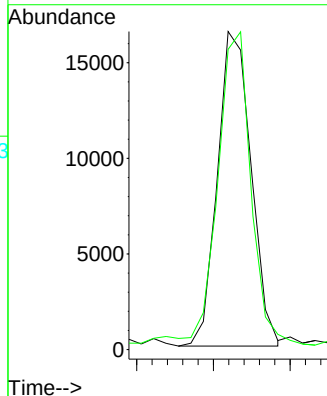
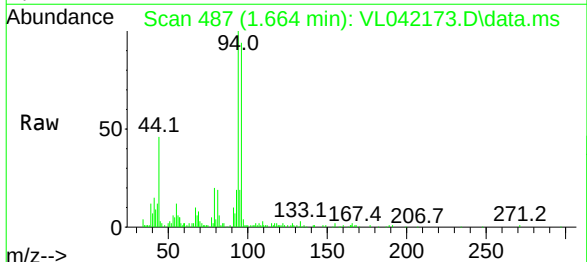
Manual Integrations  
 APPROVED

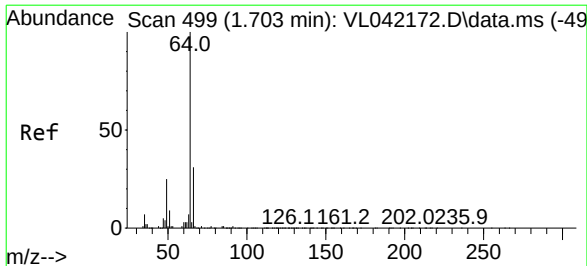
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#6  
 Bromomethane  
 Concen: 1.946 ppbv  
 RT: 1.664 min Scan# 487  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Tgt Ion: 94 Resp: 10027  
 Ion Ratio Lower Upper  
 94 100  
 96 93.6 73.1 109.7





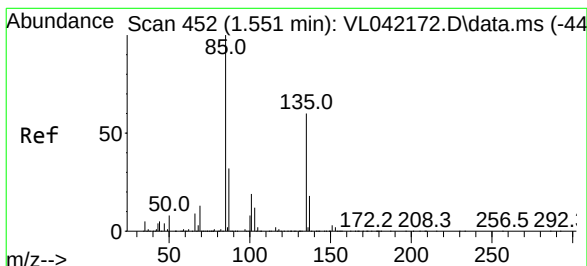
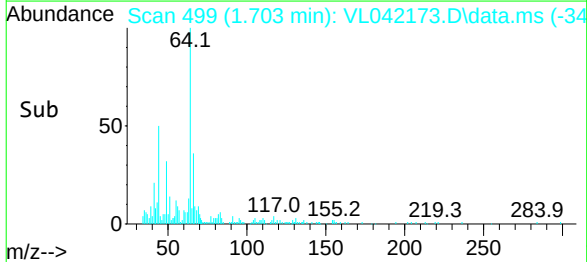
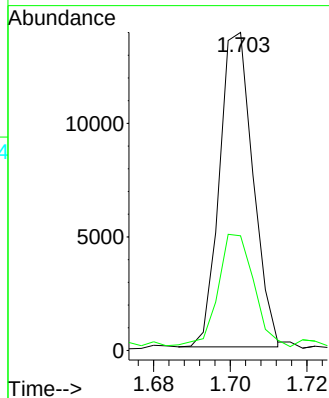
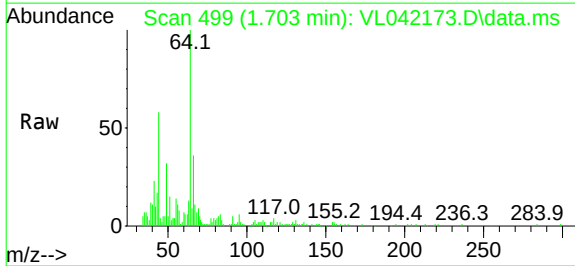
#7  
Chloroethane  
Concen: 1.844 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 64 Resp: 8413  
Ion Ratio Lower Upper  
64 100  
66 36.1 25.2 37.8

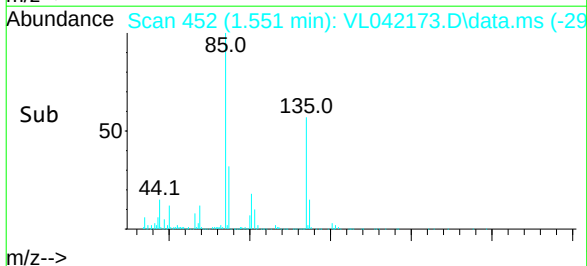
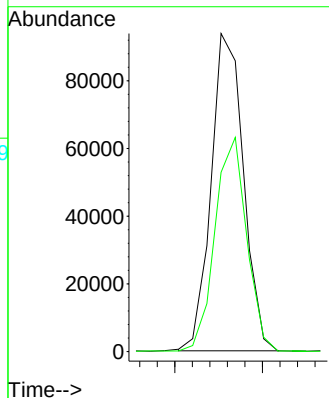
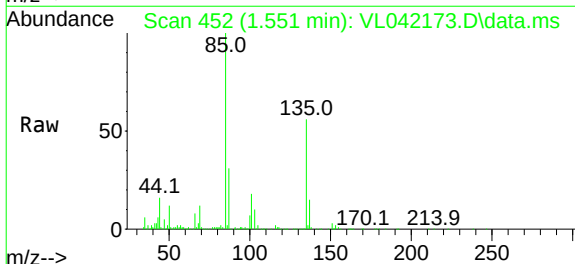
Manual Integrations  
APPROVED

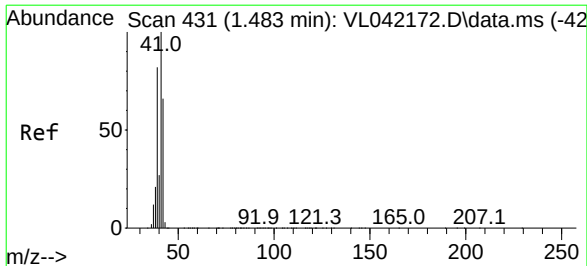
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#8  
Dichlorotetrafluoroethane  
Concen: 2.027 ppbv  
RT: 1.551 min Scan# 452  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

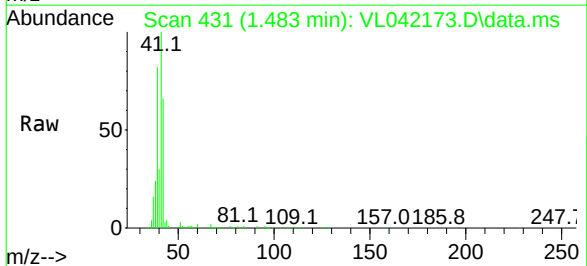
Tgt Ion: 85 Resp: 48008  
Ion Ratio Lower Upper  
85 100  
135 66.8 52.4 78.6





#9  
Propene  
Concen: 2.054 ppbv  
RT: 1.483 min Scan# 431  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

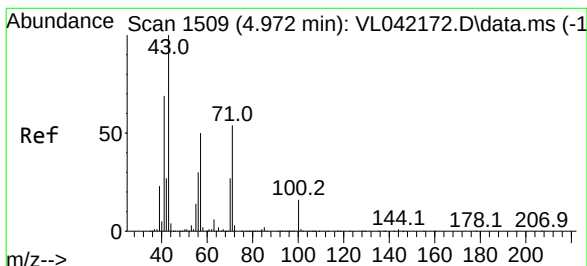
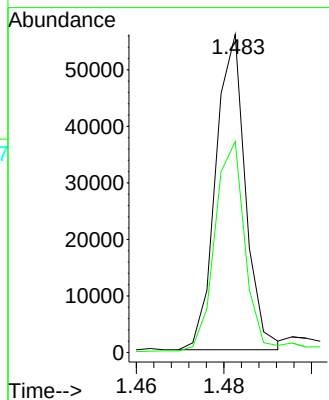
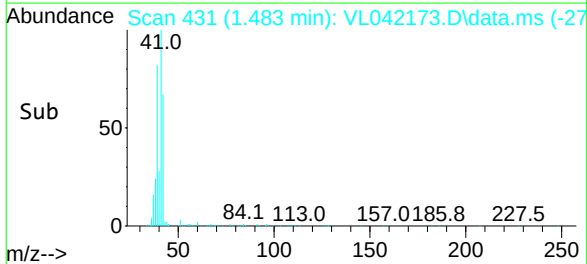
Instrument : MSVOA\_L  
ClientSampleId : VSTDICC002



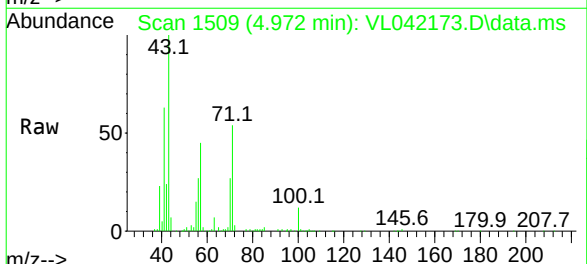
Tgt Ion: 41 Resp: 26295  
Ion Ratio Lower Upper  
41 100  
42 73.9 55.4 83.2

Manual Integrations  
APPROVED

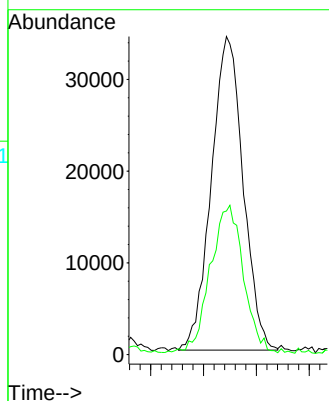
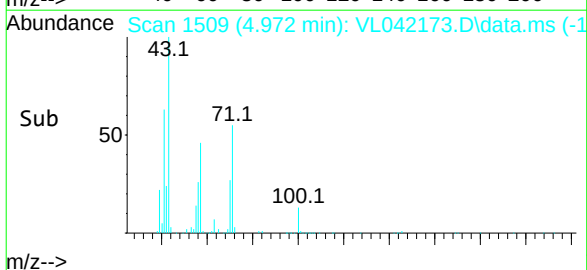
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

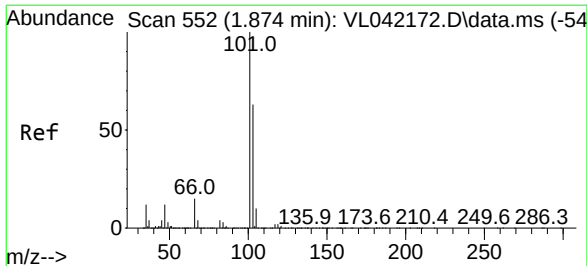


#10  
Heptane  
Concen: 2.063 ppbv  
RT: 4.972 min Scan# 1509  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59



Tgt Ion: 43 Resp: 71466  
Ion Ratio Lower Upper  
43 100  
57 49.6 39.4 59.2





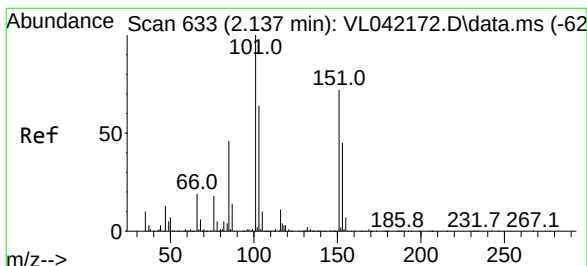
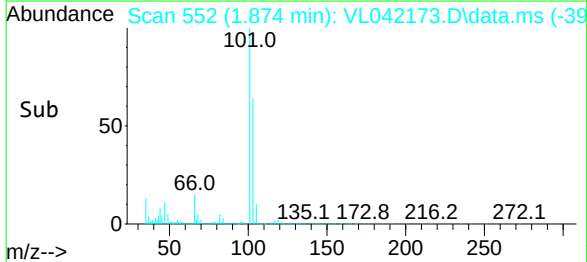
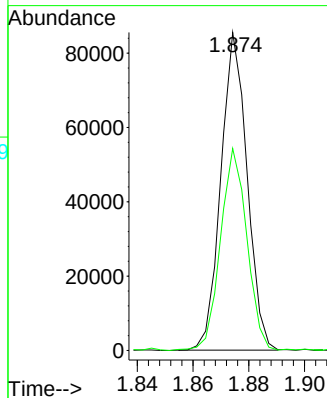
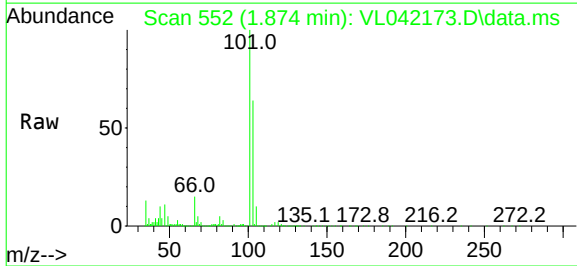
#11  
Trichlorofluoromethane  
Concen: 2.060 ppbv  
RT: 1.874 min Scan# 552  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion:101 Resp: 55754  
Ion Ratio Lower Upper  
101 100  
103 63.5 50.2 75.2

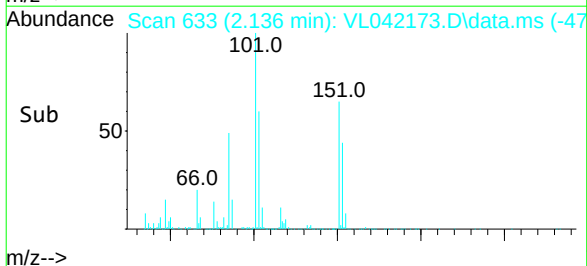
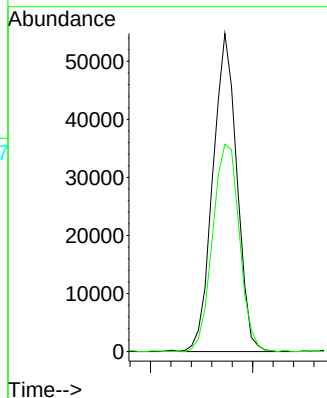
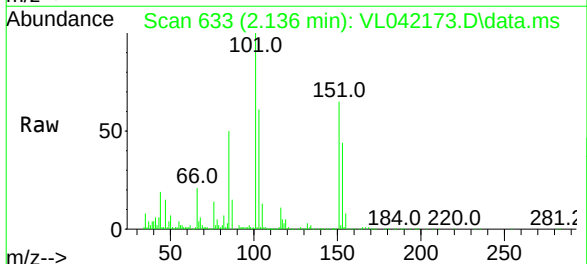
Manual Integrations  
APPROVED

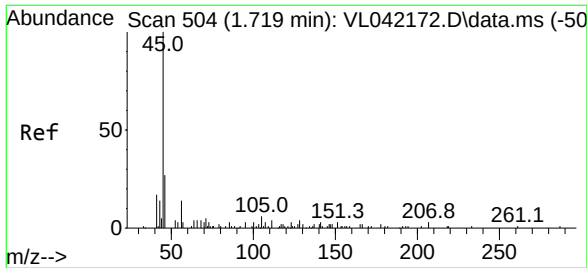
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 2.012 ppbv  
RT: 2.136 min Scan# 633  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion:101 Resp: 44761  
Ion Ratio Lower Upper  
101 100  
151 73.0 57.1 85.7





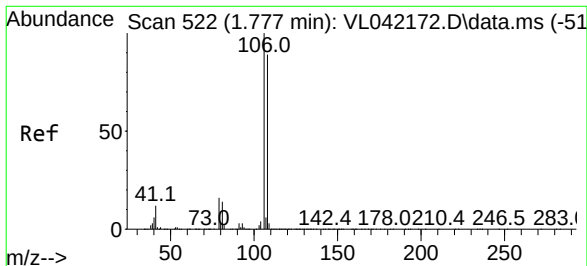
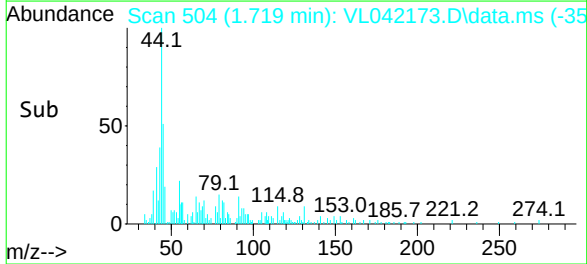
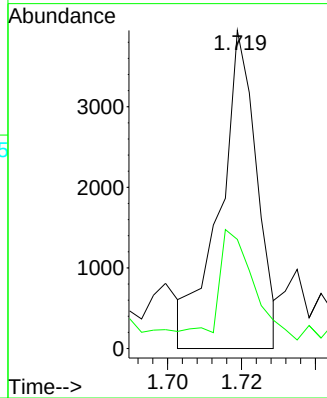
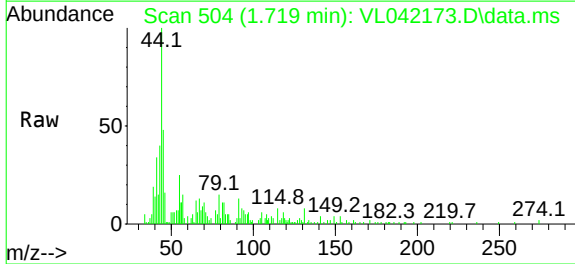
#13  
Ethanol  
Concen: 2.741 ppbv m  
RT: 1.719 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 45 Resp: 2748  
Ion Ratio Lower Upper  
45 100  
46 56.9 20.2 80.8

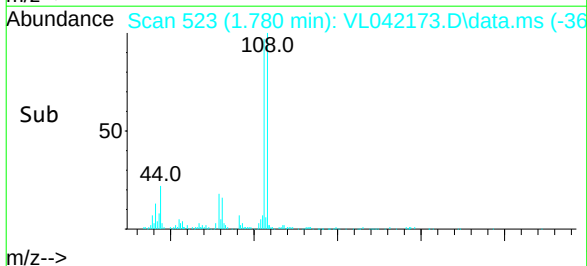
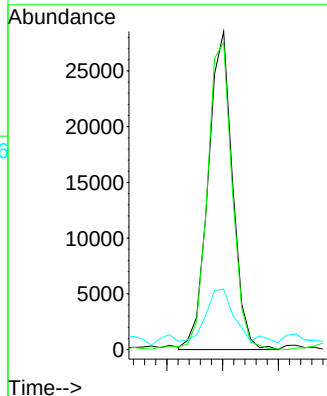
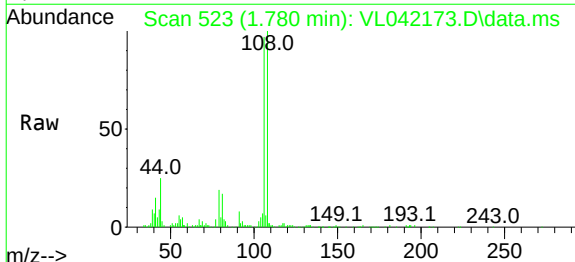
Manual Integrations  
APPROVED

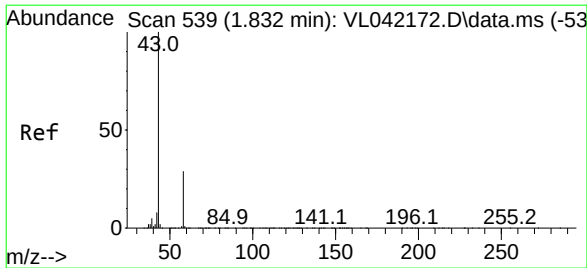
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#14  
Bromoethene  
Concen: 2.033 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. 0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion:108 Resp: 17323  
Ion Ratio Lower Upper  
108 100  
106 100.6 86.8 130.2  
79 32.0 15.0 22.6#





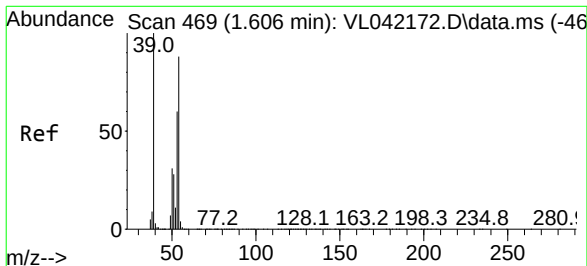
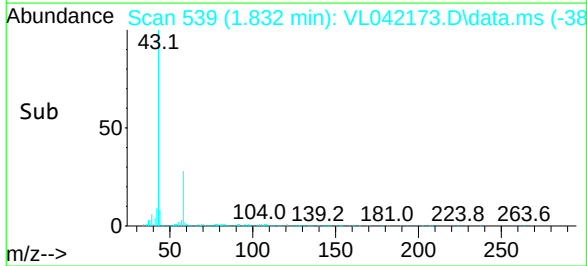
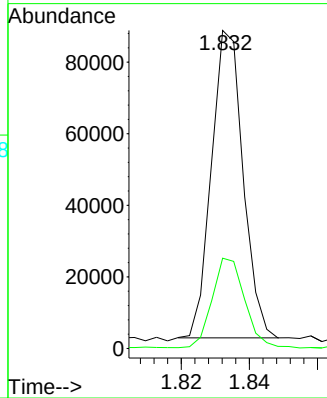
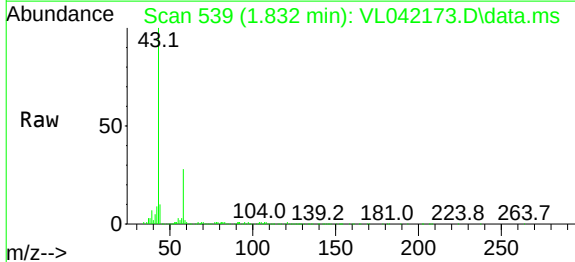
#15  
Acetone  
Concen: 2.101 ppbv  
RT: 1.832 min Scan# 539  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 43 Resp: 55365  
Ion Ratio Lower Upper  
43 100  
58 31.8 23.2 34.8

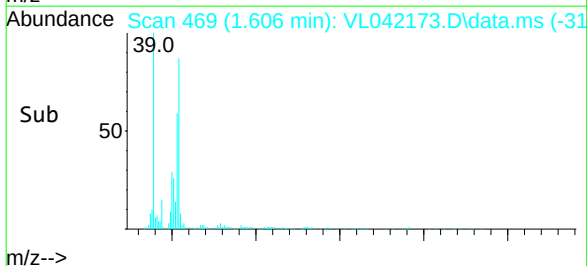
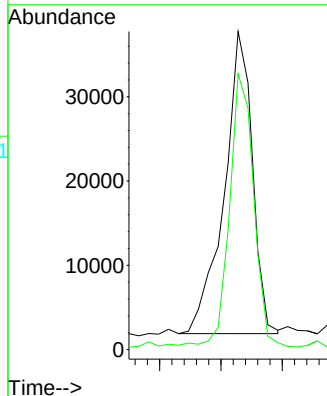
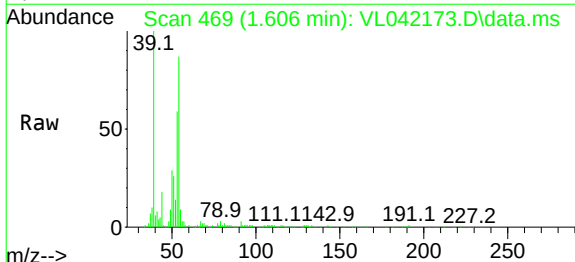
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

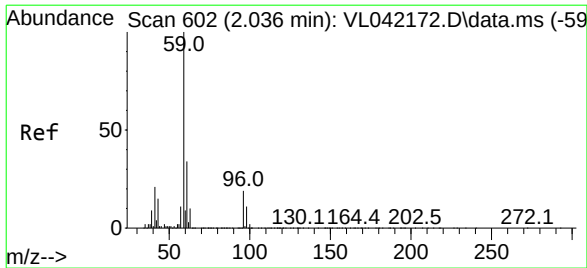


#16  
1,3-Butadiene  
Concen: 1.932 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 39 Resp: 22894  
Ion Ratio Lower Upper  
39 100  
54 79.9 60.7 91.1







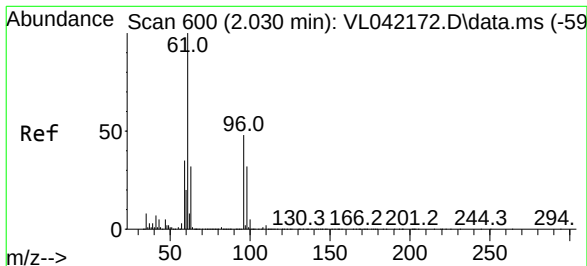
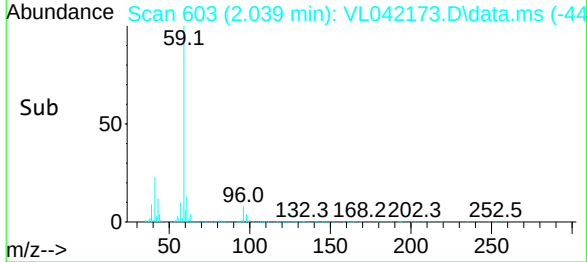
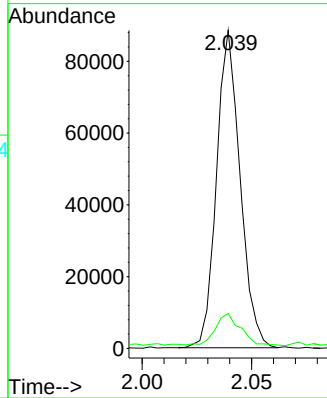
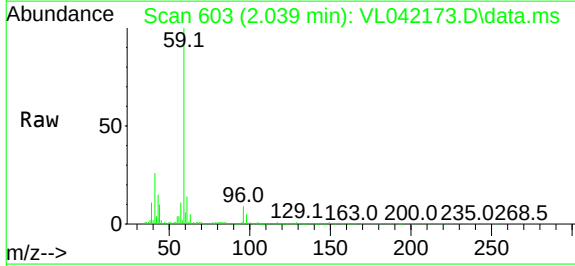
#17  
tert-Butyl alcohol  
Concen: 2.016 ppbv  
RT: 2.039 min Scan# 600  
Delta R.T. 0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 11.2  | 8.9   | 13.3  |

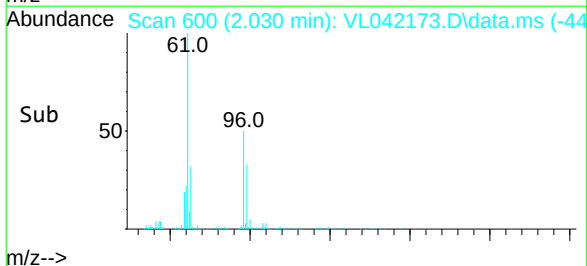
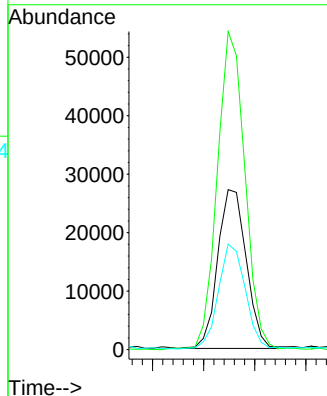
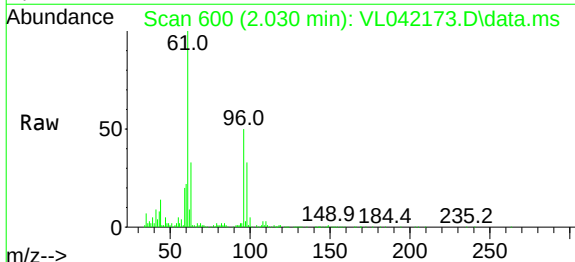
Manual Integrations  
**APPROVED**

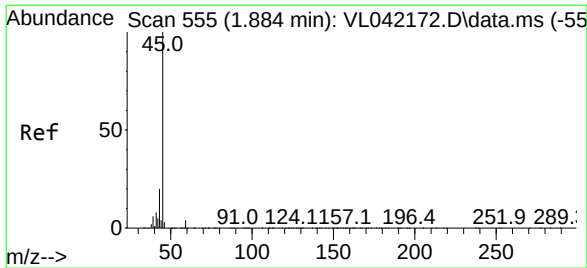
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#18  
1,1-Dichloroethene  
Concen: 2.029 ppbv  
RT: 2.030 min Scan# 600  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 199.8 | 167.6 | 251.4 |
| 98      | 66.0  | 53.5  | 80.3  |





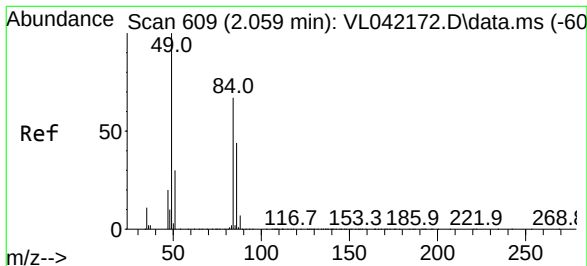
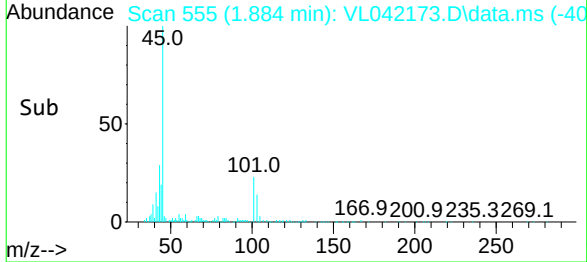
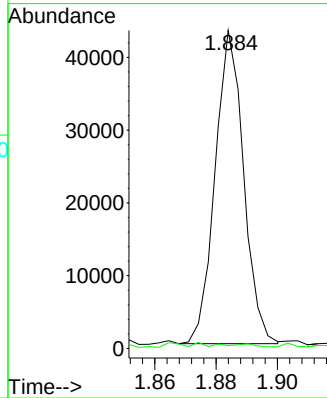
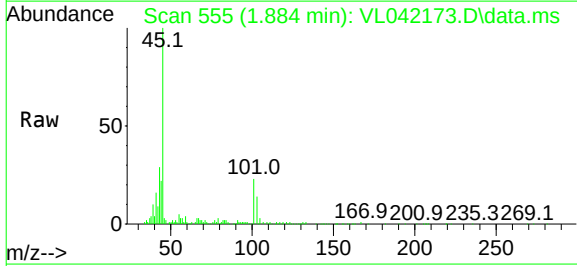
#19  
Isopropyl Alcohol  
Concen: 1.870 ppbv  
RT: 1.884 min Scan# 555  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 45 Resp: 27804  
Ion Ratio Lower Upper  
45 100  
58 3.3 36.9 55.3

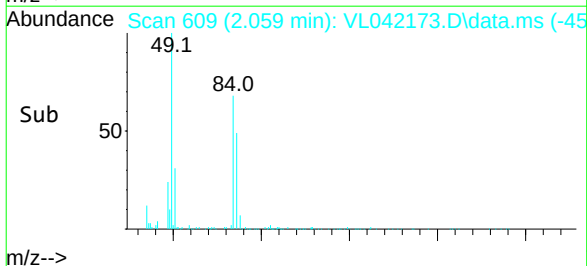
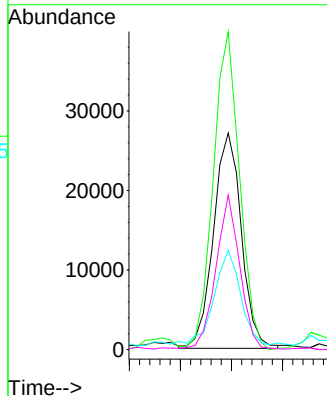
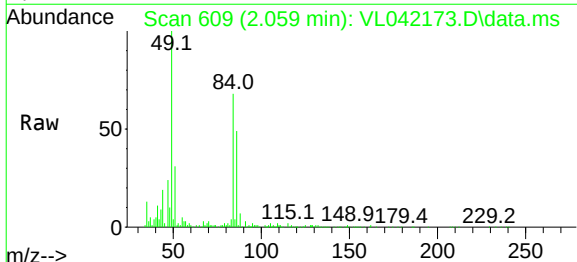
Manual Integrations  
APPROVED

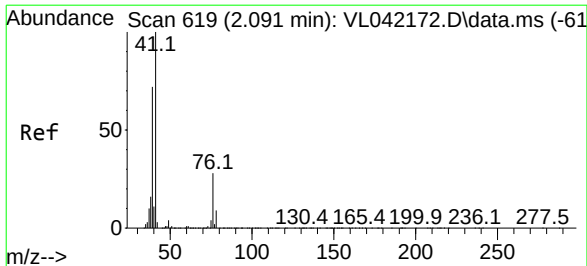
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#20  
Methylene Chloride  
Concen: 2.091 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 84 Resp: 20518  
Ion Ratio Lower Upper  
84 100  
49 148.8 120.2 180.4  
51 43.5 37.4 56.0  
86 72.2 52.4 78.6





#21  
 Allyl Chloride  
 Concen: 2.068 ppbv  
 RT: 2.094 min Scan# 621  
 Delta R.T. 0.003 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Instrument :

MSVOA\_L

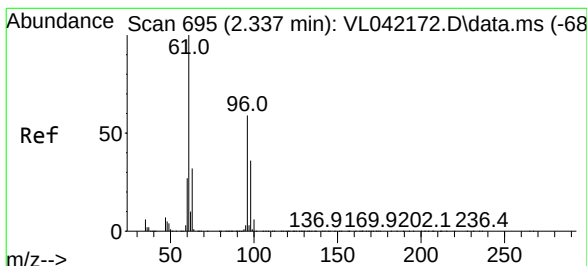
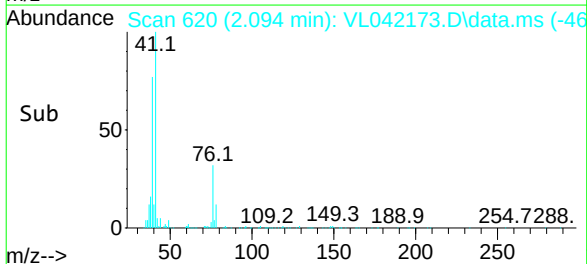
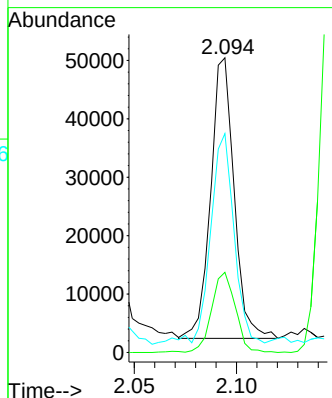
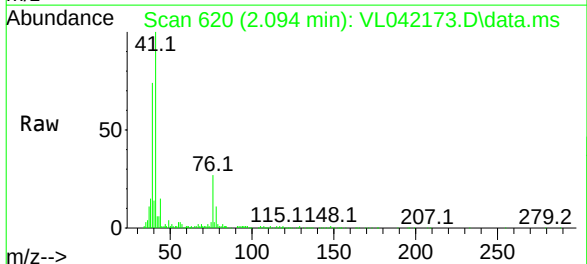
ClientSampleId :

VSTDICC002

Tgt Ion: 41 Resp: 38425  
 Ion Ratio Lower Upper  
 41 100  
 76 29.0 24.1 36.1  
 39 77.5 61.1 91.7

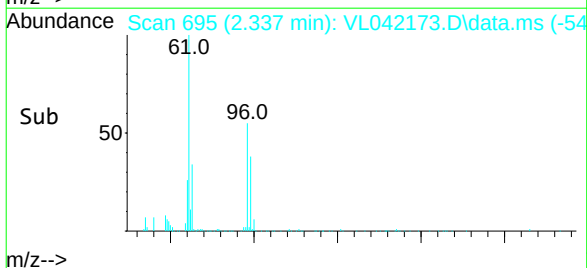
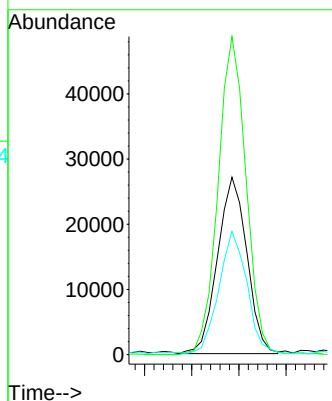
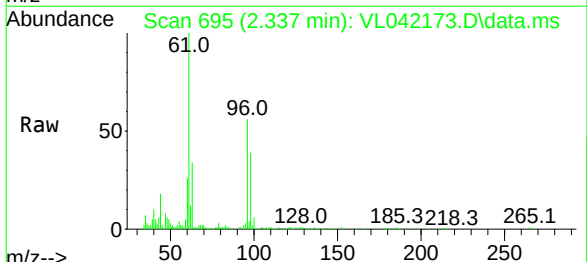
Manual Integrations  
 APPROVED

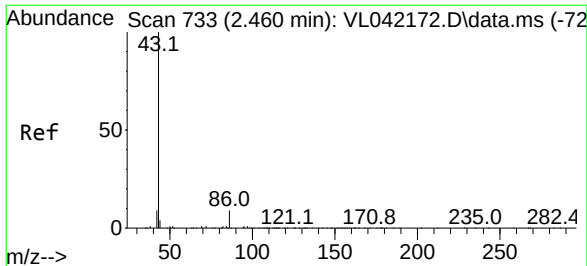
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 1.924 ppbv  
 RT: 2.337 min Scan# 695  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Tgt Ion: 96 Resp: 23384  
 Ion Ratio Lower Upper  
 96 100  
 61 180.3 136.6 204.8  
 98 68.6 49.4 74.2





#23  
 Vinyl Acetate  
 Concen: 1.894 ppbv  
 RT: 2.460 min Scan# 733  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Instrument :

MSVOA\_L

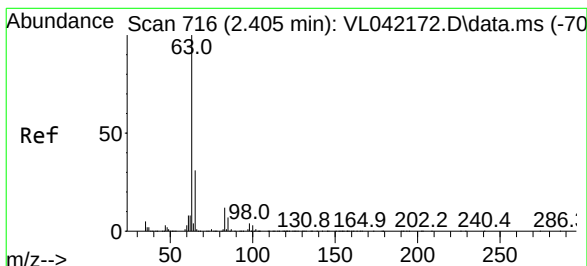
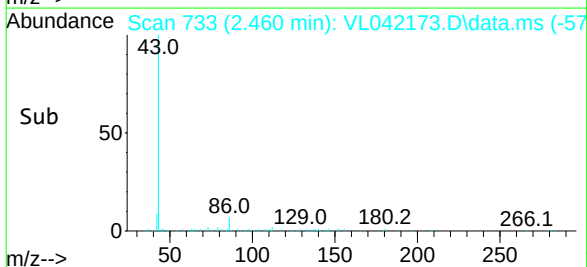
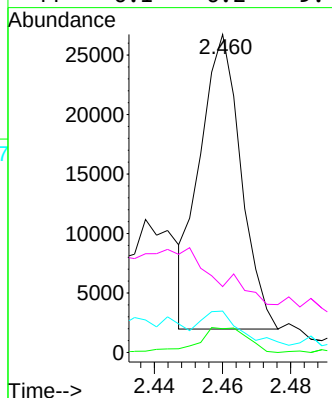
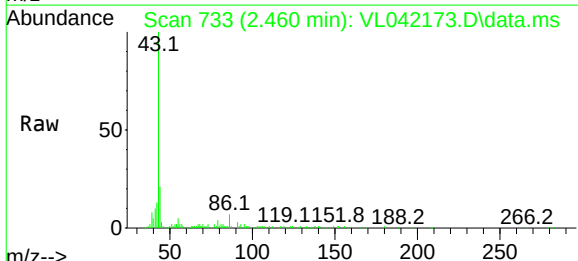
ClientSampleId :

VSTDICC002

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 20736 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 8.1   | 5.5   | 8.3   |
| 42       | 10.4  | 8.6   | 13.0  |
| 44       | 6.1   | 6.2   | 9.4#  |

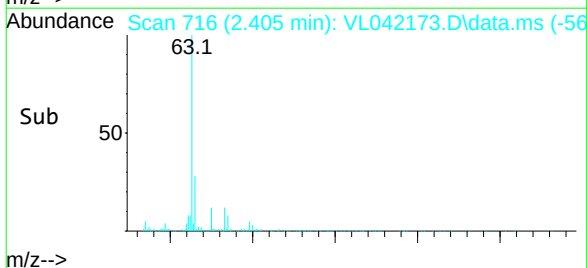
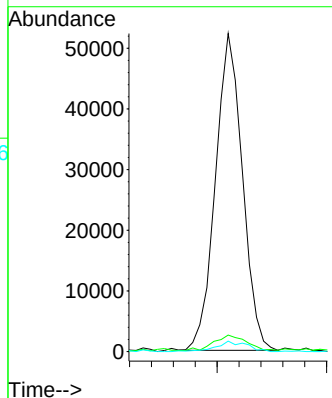
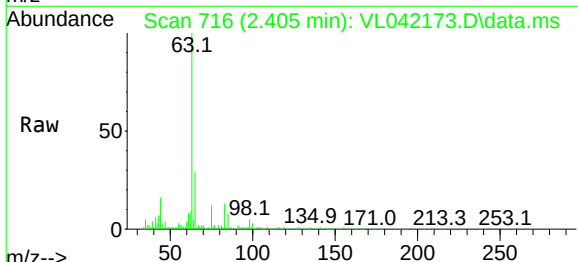
Manual Integrations  
 APPROVED

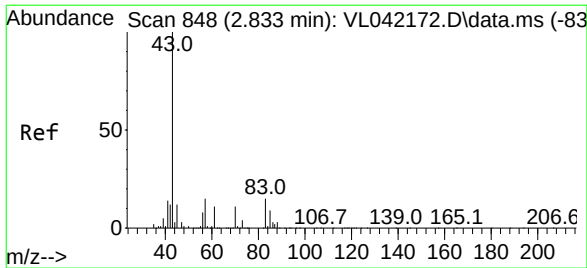
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#24  
 1,1-Dichloroethane  
 Concen: 2.008 ppbv  
 RT: 2.405 min Scan# 716  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

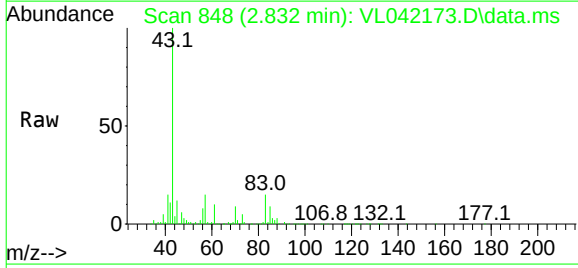
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 44740 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 4.9   | 2.3   | 6.8   |
| 100      | 3.3   | 1.6   | 4.7   |





#25  
Ethyl Acetate  
Concen: 2.040 ppbv  
RT: 2.832 min Scan# 84  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

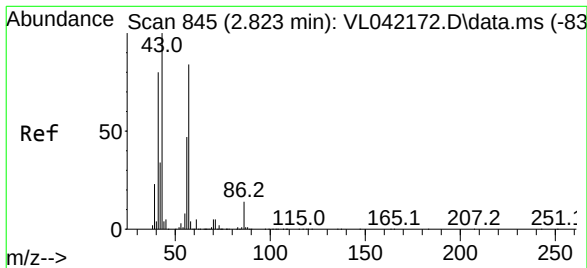
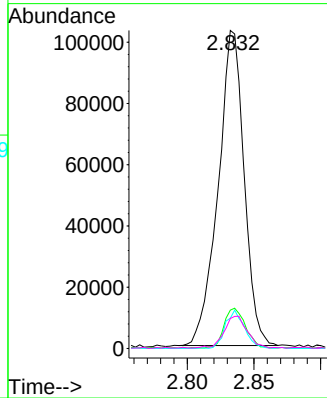
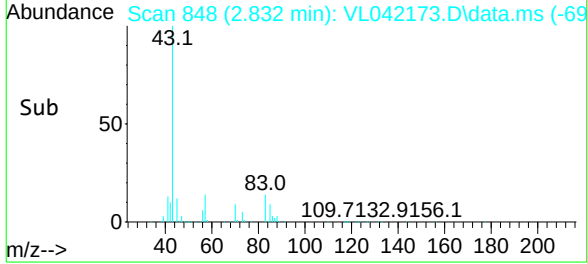
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



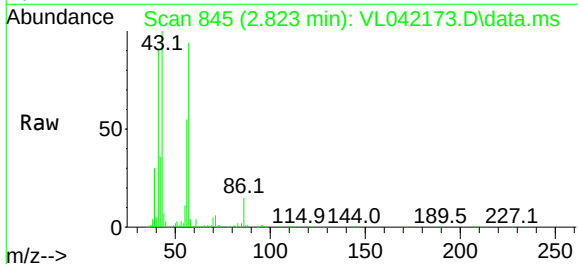
Tgt Ion: 43 Resp: 139516  
Ion Ratio Lower Upper  
43 100  
45 10.9 8.2 12.2  
61 9.1 7.3 10.9  
70 9.5 7.2 10.8

Manual Integrations  
APPROVED

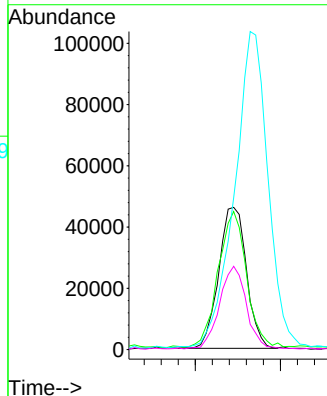
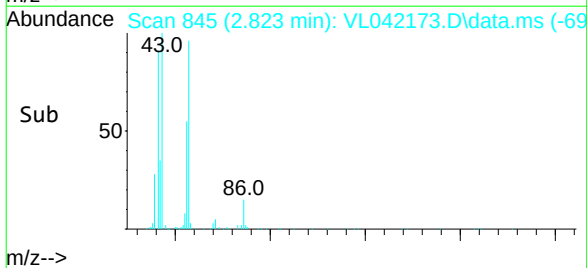
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

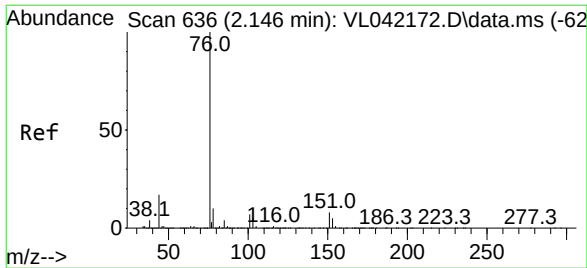


#26  
Hexane  
Concen: 1.972 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59



Tgt Ion: 57 Resp: 52095  
Ion Ratio Lower Upper  
57 100  
41 100.9 76.6 114.8  
43 274.8 207.8 311.8  
56 61.1 43.6 65.4





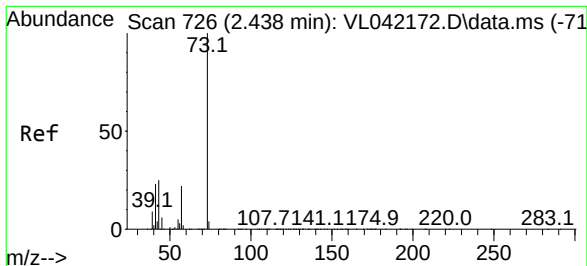
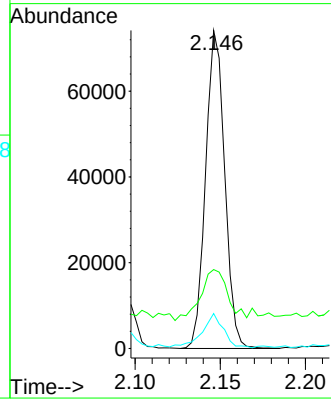
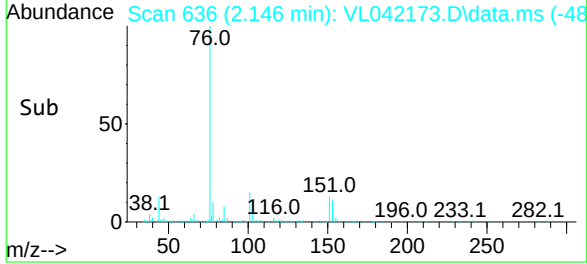
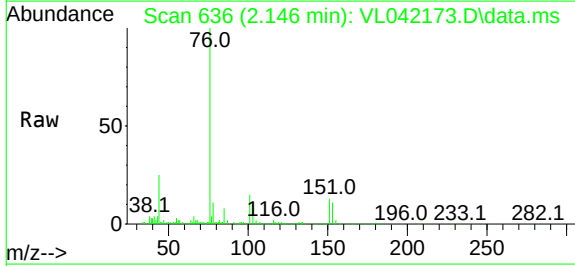
#27  
Carbon Disulfide  
Concen: 2.047 ppbv  
RT: 2.146 min Scan# 636  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument : MSVOA\_L  
ClientSampleId : VSTDICC002

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 76    | Resp: | 57969 |
| Ion      | Ratio | Lower | Upper |
| 76       | 100   |       |       |
| 44       | 35.2  | 14.7  | 22.1  |
| 78       | 12.0  | 9.3   | 13.9  |

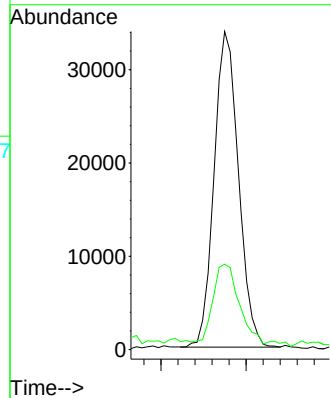
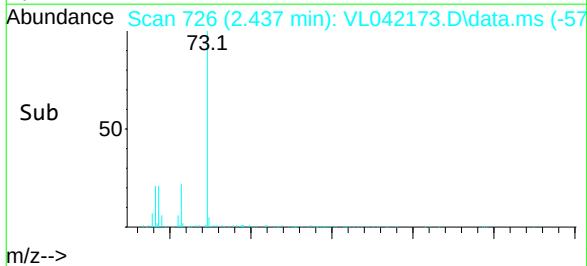
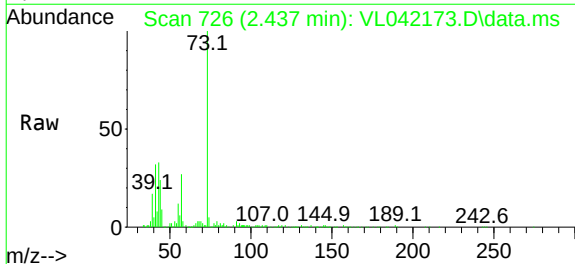
Manual Integrations  
APPROVED

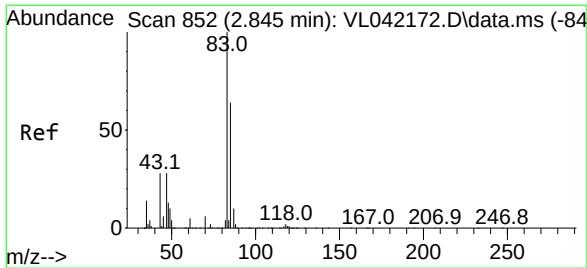
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#28  
Methyl tert-Butyl Ether  
Concen: 2.049 ppbv  
RT: 2.437 min Scan# 726  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 73    | Resp: | 33703 |
| Ion      | Ratio | Lower | Upper |
| 73       | 100   |       |       |
| 57       | 25.2  | 20.5  | 30.7  |





#29

Chloroform

Concen: 2.019 ppbv

RT: 2.845 min Scan# 85

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 78043

Ion Ratio Lower Upper

83 100

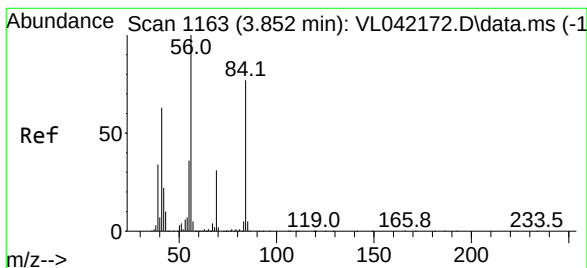
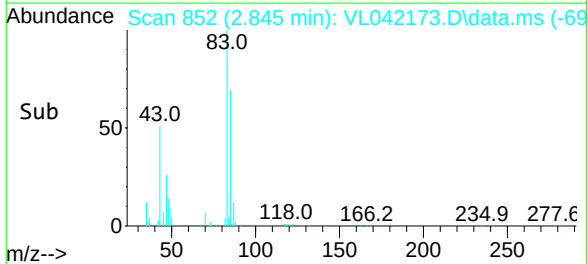
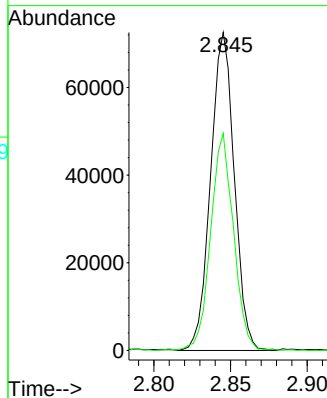
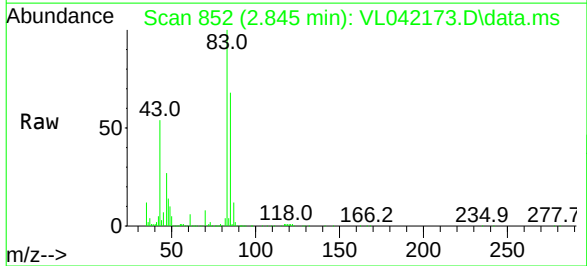
85 68.2 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#30

Cyclohexane

Concen: 1.989 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

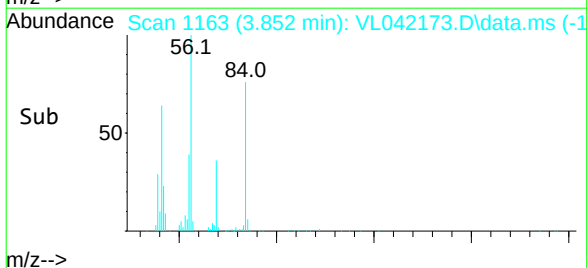
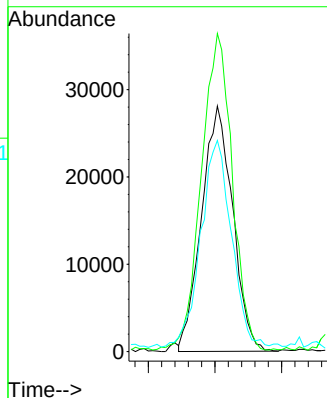
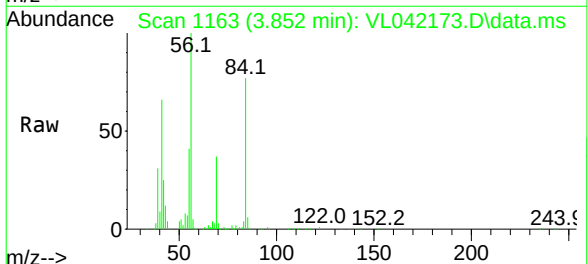
Tgt Ion: 84 Resp: 45641

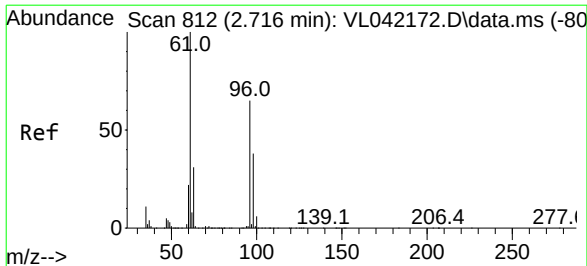
Ion Ratio Lower Upper

84 100

56 127.8 102.8 154.2

41 84.6 66.5 99.7





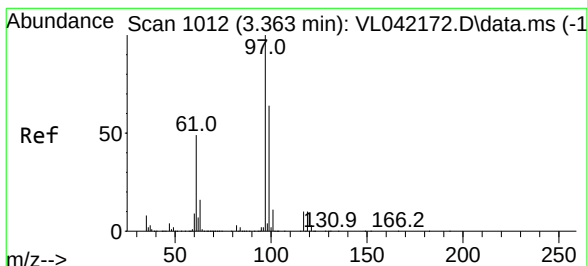
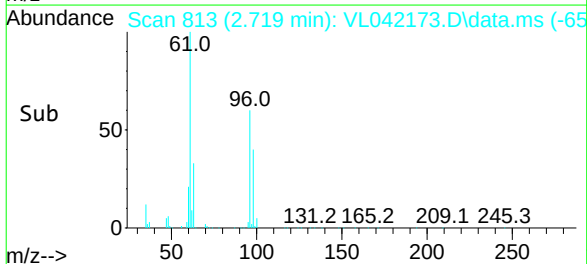
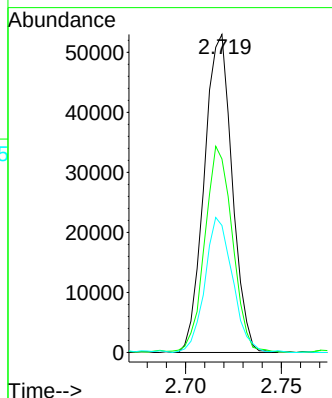
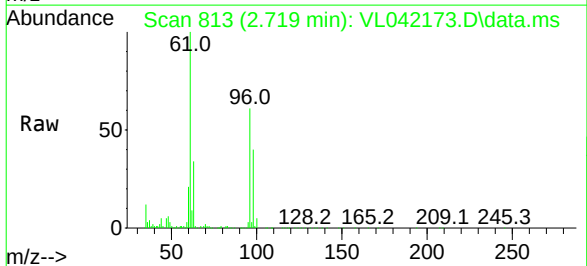
#31  
 cis-1,2-Dichloroethene  
 Concen: 2.003 ppbv  
 RT: 2.719 min Scan# 812  
 Delta R.T. 0.003 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 61    | Resp: | 53713 |
| Ion      | Ratio | Lower | Upper |
| 61       | 100   |       |       |
| 96       | 60.6  | 51.8  | 77.8  |
| 98       | 39.6  | 30.6  | 46.0  |

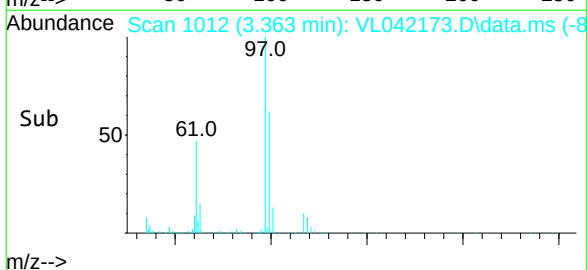
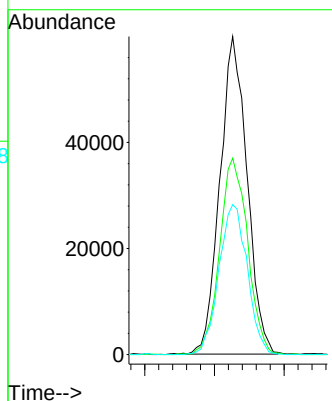
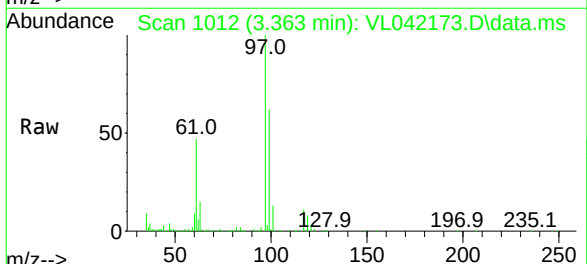
Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

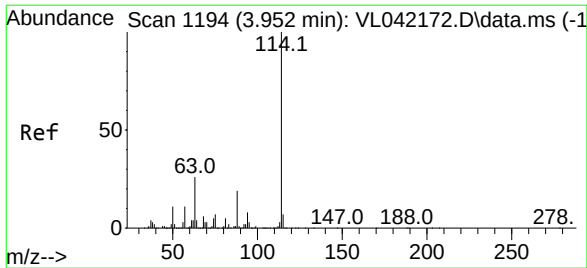


#32  
 1,1,1-Trichloroethane  
 Concen: 1.833 ppbv  
 RT: 3.363 min Scan# 1012  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 81070 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.9  | 51.5  | 77.3  |
| 61       | 49.3  | 38.7  | 58.1  |

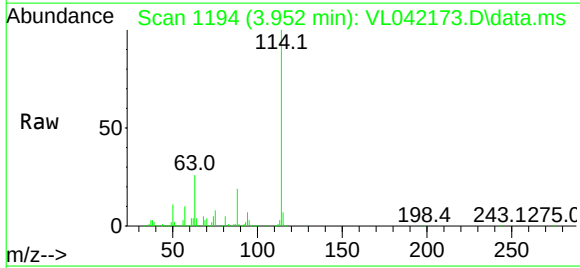






#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.952 min Scan# 1194  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

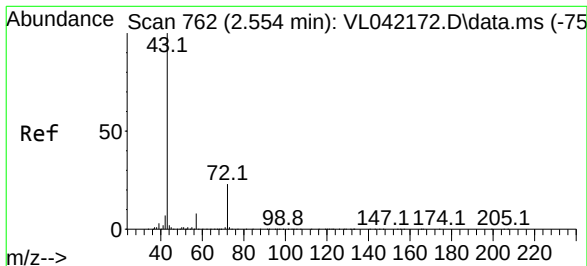
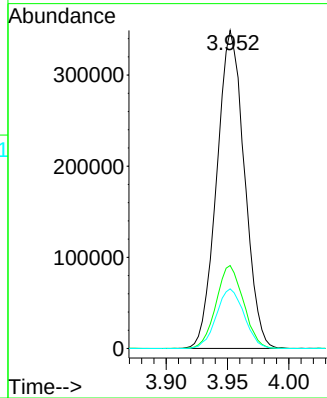
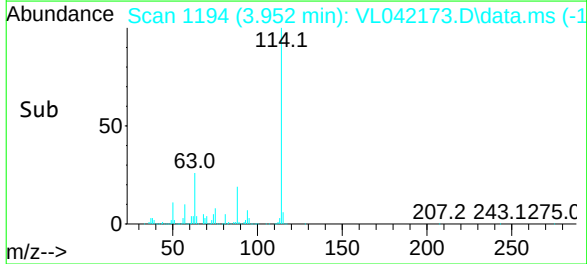
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



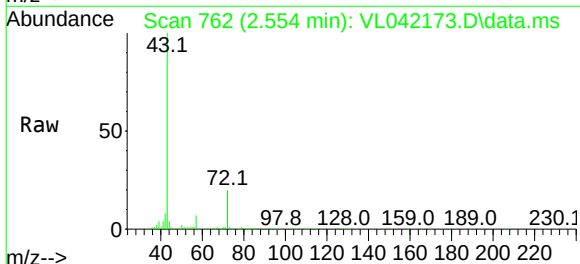
Tgt Ion: 114 Resp: 546394  
Ion Ratio Lower Upper  
114 100  
63 25.9 20.7 31.1  
88 18.9 15.0 22.4

Manual Integrations  
APPROVED

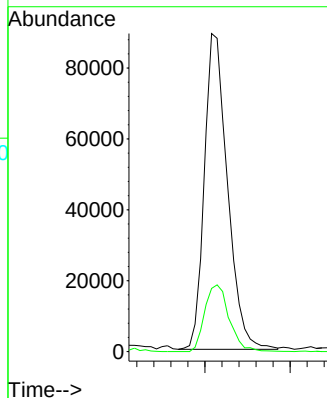
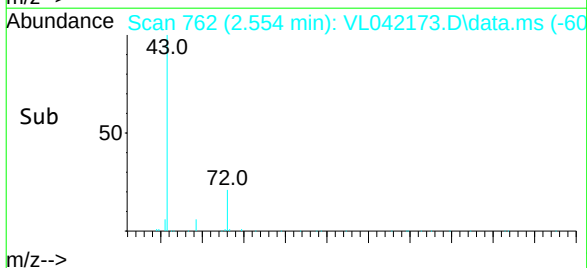
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

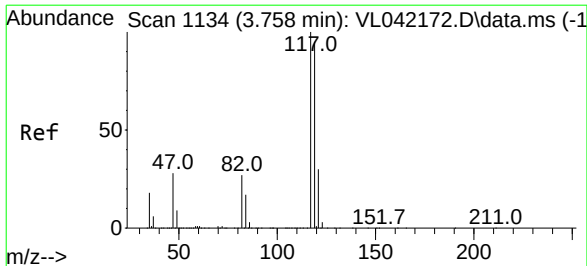


#34  
2-Butanone  
Concen: 2.124 ppbv  
RT: 2.554 min Scan# 762  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59



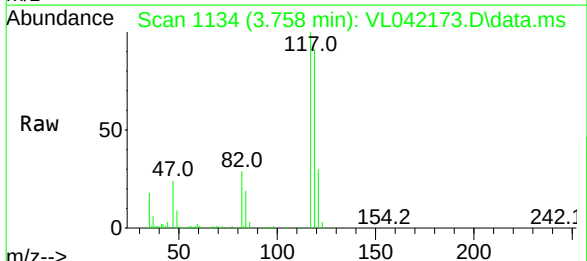
Tgt Ion: 43 Resp: 84157  
Ion Ratio Lower Upper  
43 100  
72 22.4 18.2 27.2





#35  
Carbon Tetrachloride  
Concen: 1.944 ppbv  
RT: 3.758 min Scan# 1134  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

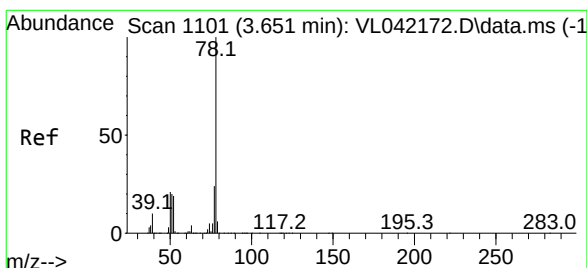
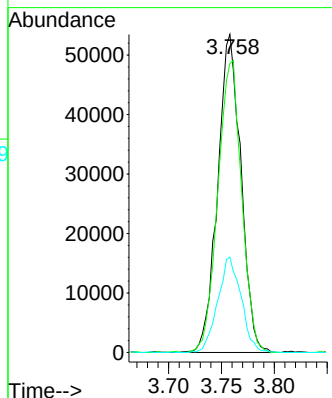
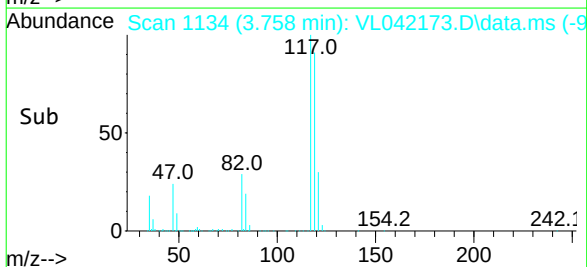
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



Tgt Ion: 117 Resp: 81735  
Ion Ratio Lower Upper  
117 100  
119 90.8 76.2 114.2  
121 30.0 24.2 36.4

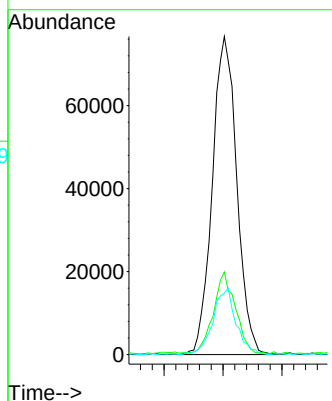
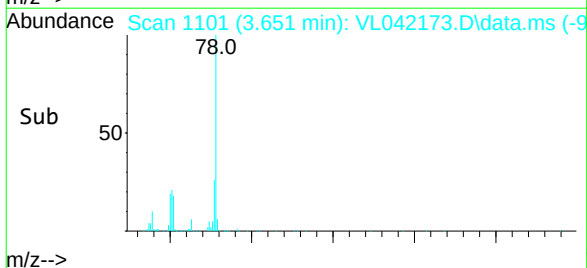
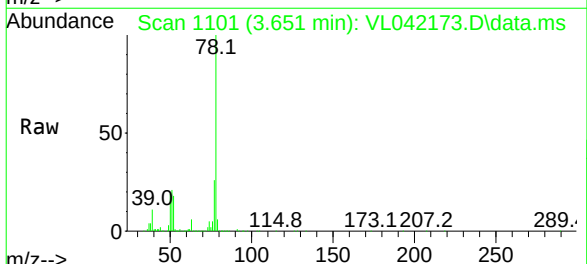
Manual Integrations  
APPROVED

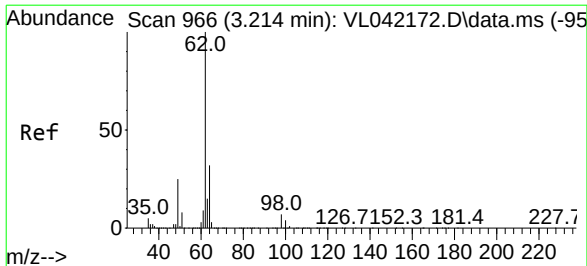
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025



#36  
Benzene  
Concen: 2.044 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 78 Resp: 110727  
Ion Ratio Lower Upper  
78 100  
77 25.7 19.1 28.7  
50 19.3 16.6 24.8





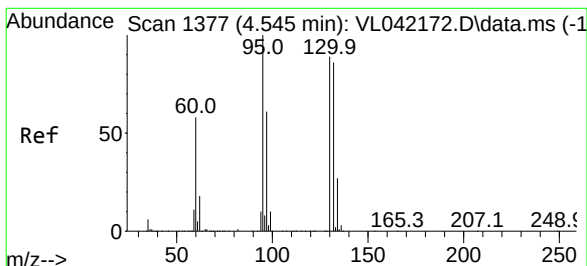
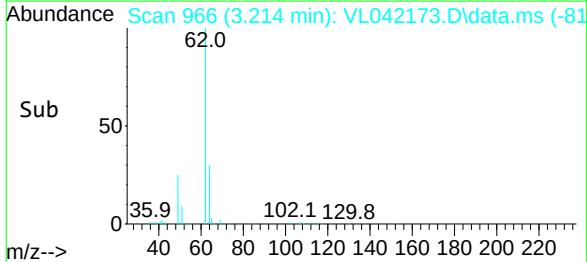
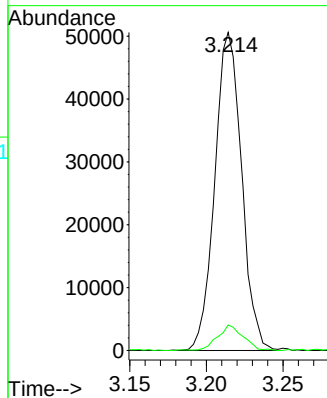
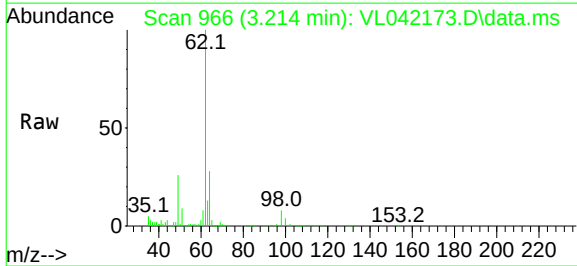
#37  
1,2-Dichloroethane  
Concen: 1.982 ppbv  
RT: 3.214 min Scan# 966  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument : MSVOA\_L  
ClientSampleId : VSTDIC002

Tgt Ion: 62 Resp: 61476  
Ion Ratio Lower Upper  
62 100  
98 7.7 5.4 8.2

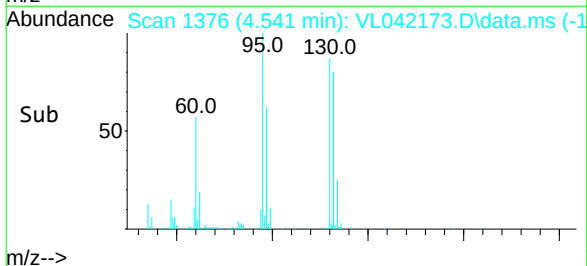
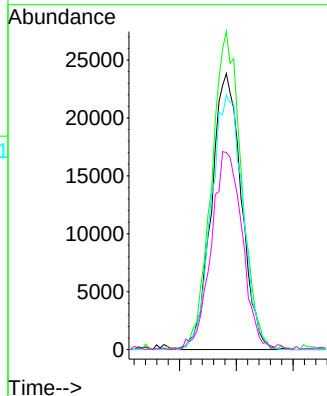
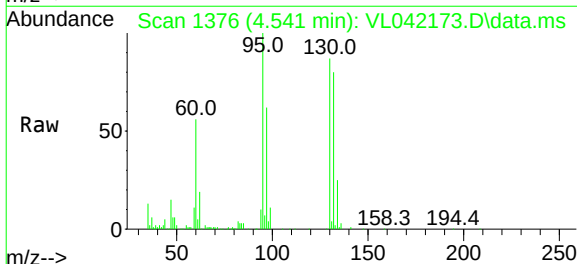
Manual Integrations  
APPROVED

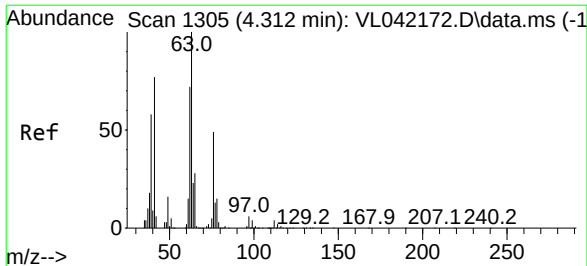
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#38  
Trichloroethene  
Concen: 1.924 ppbv  
RT: 4.541 min Scan# 1376  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion:130 Resp: 43501  
Ion Ratio Lower Upper  
130 100  
95 114.8 89.8 134.8  
132 92.2 77.4 116.2  
97 70.8 55.1 82.7





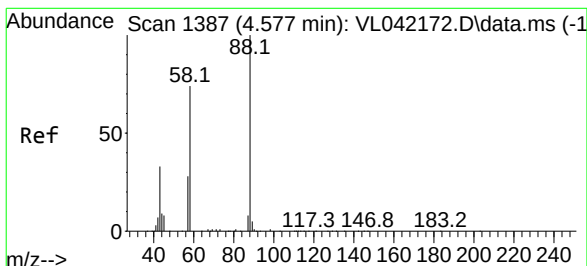
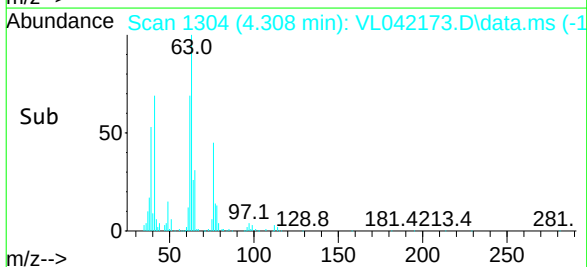
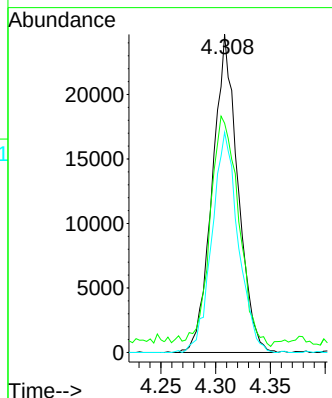
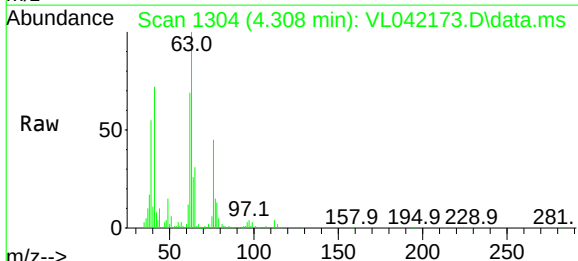
#39  
1,2-Dichloropropane  
Concen: 2.023 ppbv  
RT: 4.308 min Scan# 1305  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 39912 |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 41 68.6     | 61.7 92.5   |
| 62 69.2     | 57.6 86.4   |

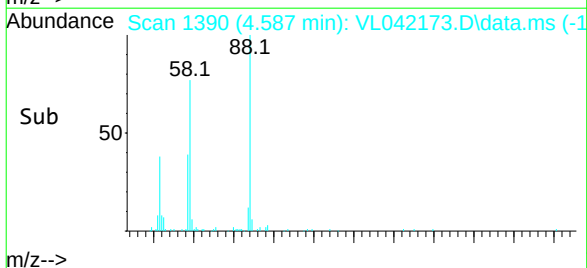
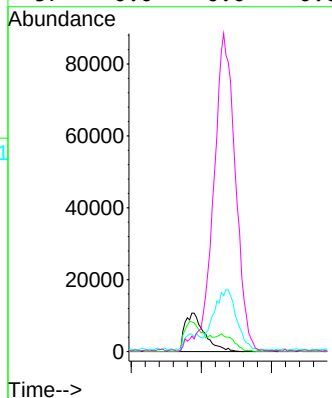
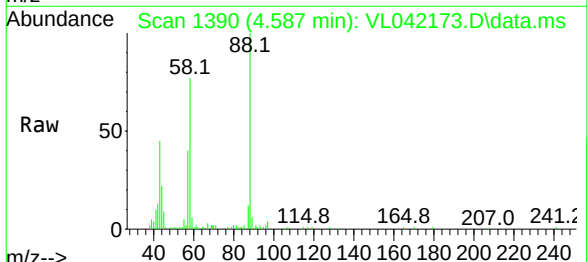
Manual Integrations  
APPROVED

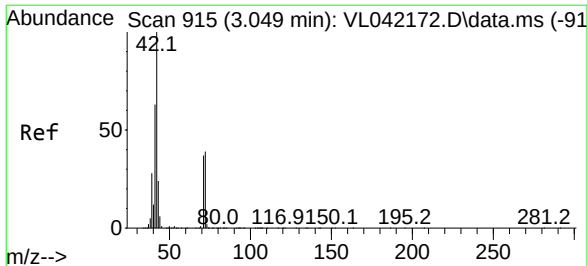
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#40  
1,4-Dioxane  
Concen: 2.040 ppbv m  
RT: 4.587 min Scan# 1390  
Delta R.T. 0.009 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

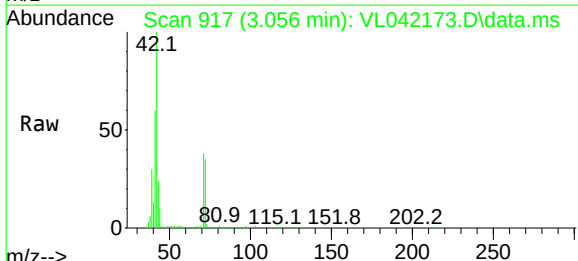
|             |             |
|-------------|-------------|
| Tgt Ion: 88 | Resp: 20884 |
| Ion Ratio   | Lower Upper |
| 88 100      |             |
| 58 119.5    | 62.7 94.1#  |
| 43 0.0      | 23.0 34.4#  |
| 57 0.0      | 0.0 0.0     |





#41  
Tetrahydrofuran  
Concen: 2.097 ppbv  
RT: 3.056 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

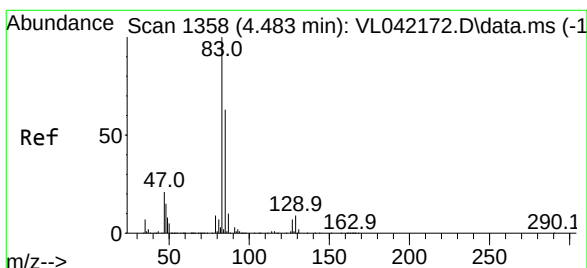
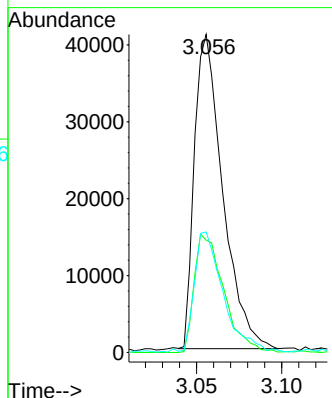
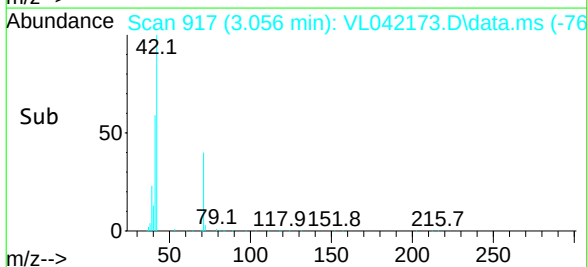
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



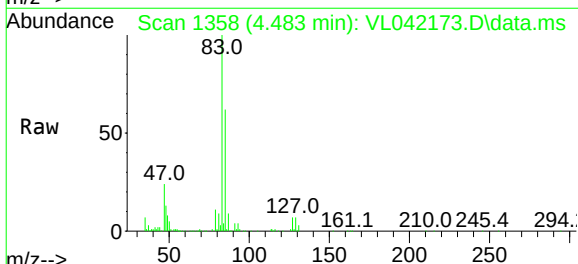
Tgt Ion: 42 Resp: 47262  
Ion Ratio Lower Upper  
42 100  
72 39.6 31.4 47.0  
71 39.0 30.2 45.4

Manual Integrations  
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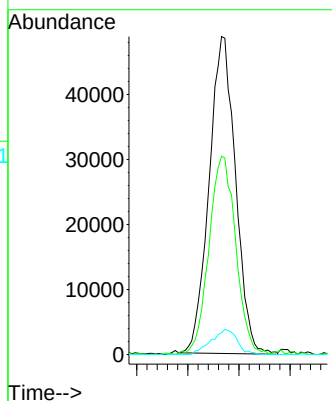
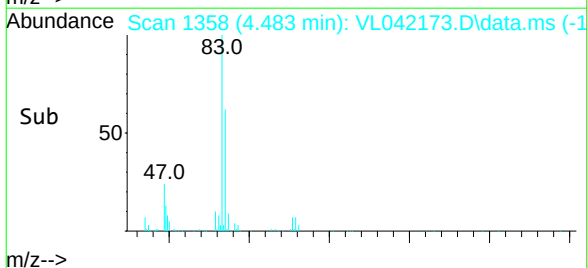
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

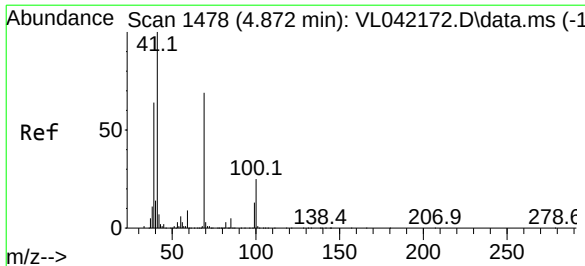


#42  
Bromodichloromethane  
Concen: 2.050 ppbv  
RT: 4.483 min Scan# 1358  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59



Tgt Ion: 83 Resp: 87640  
Ion Ratio Lower Upper  
83 100  
85 62.2 50.5 75.7  
127 6.9 5.9 8.9





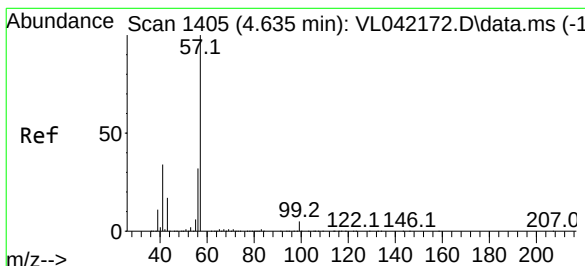
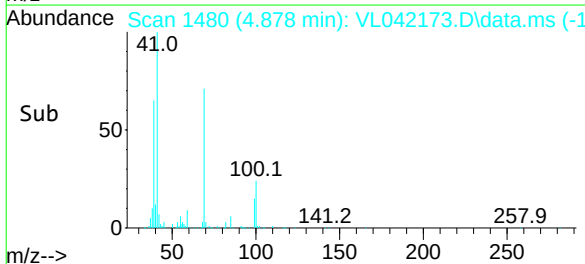
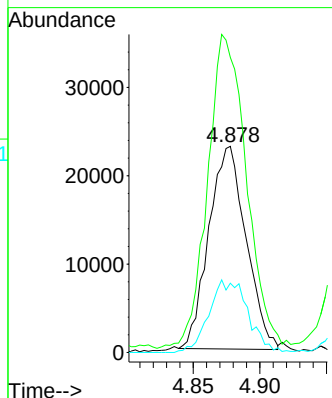
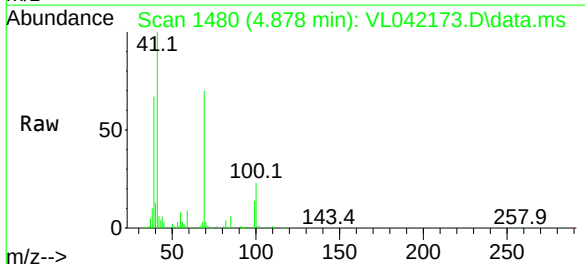
#43  
Methyl Methacrylate  
Concen: 1.952 ppbv  
RT: 4.878 min Scan# 1478  
Delta R.T. 0.006 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 69 Resp: 44624  
Ion Ratio Lower Upper  
69 100  
41 158.7 123.8 185.6  
100 37.5 28.4 42.6

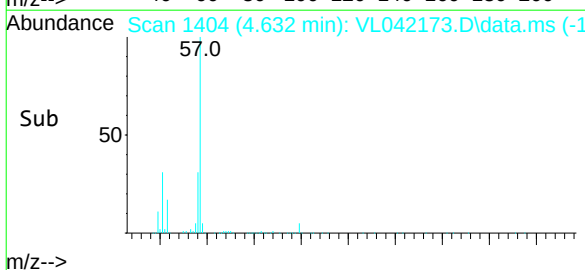
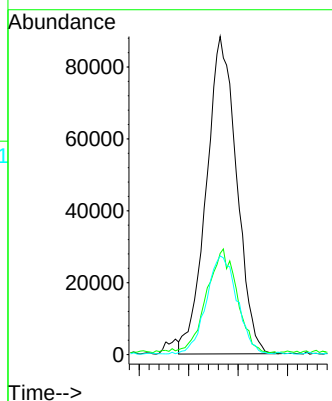
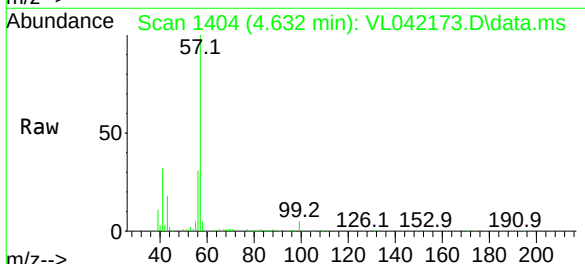
Manual Integrations  
APPROVED

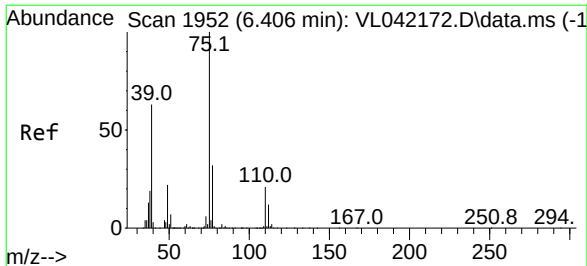
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#44  
2,2,4-Trimethylpentane  
Concen: 2.057 ppbv  
RT: 4.632 min Scan# 1404  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 57 Resp: 188282  
Ion Ratio Lower Upper  
57 100  
41 33.8 26.8 40.2  
56 31.8 25.6 38.4





#45  
 t-1,3-Dichloropropene  
 Concen: 2.011 ppbv  
 RT: 6.406 min Scan# 1952  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Instrument :

MSVOA\_L

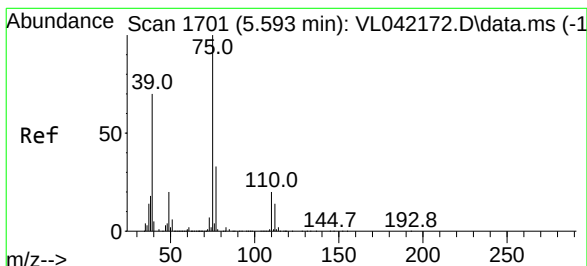
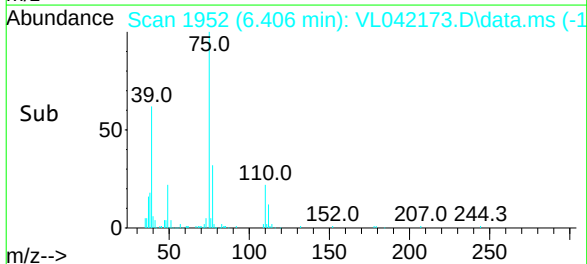
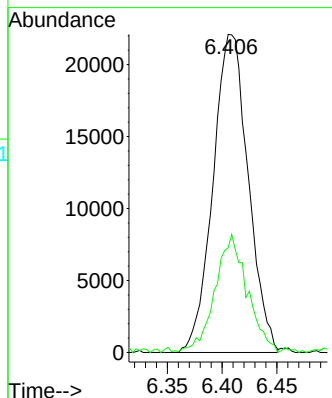
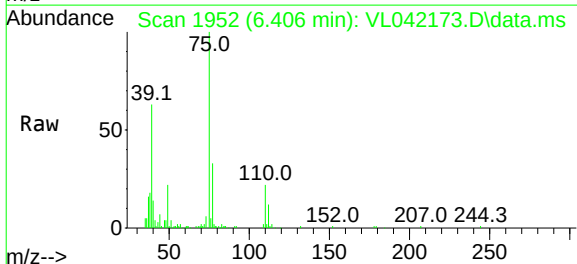
ClientSampleId :

VSTDICC002

Tgt Ion: 75 Resp: 49461  
 Ion Ratio Lower Upper  
 75 100  
 77 32.9 26.0 39.0

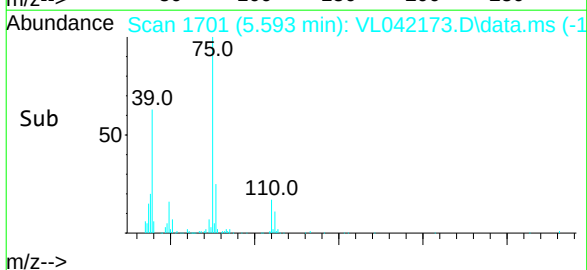
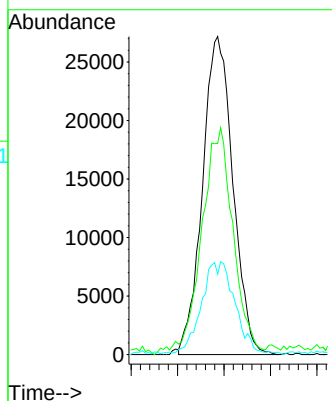
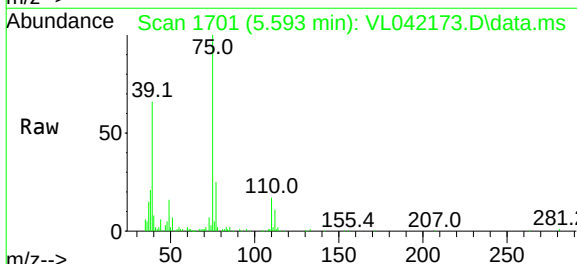
Manual Integrations  
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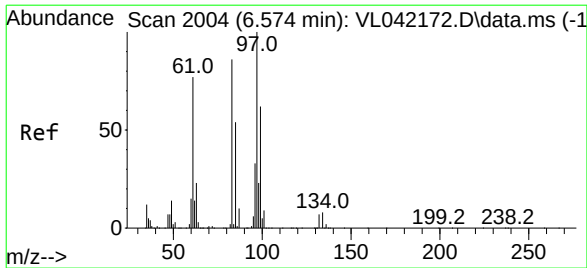
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#46  
 cis-1,3-Dichloropropene  
 Concen: 2.050 ppbv  
 RT: 5.593 min Scan# 1701  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Tgt Ion: 75 Resp: 61829  
 Ion Ratio Lower Upper  
 75 100  
 39 64.4 55.8 83.6  
 77 24.5 26.0 39.0#





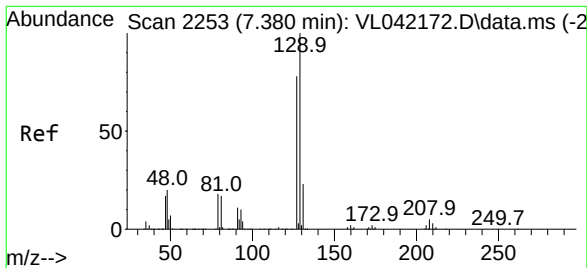
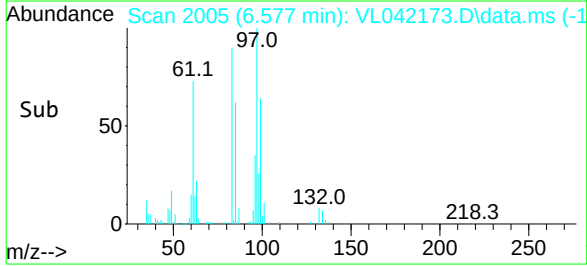
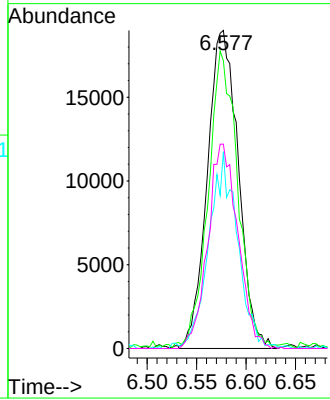
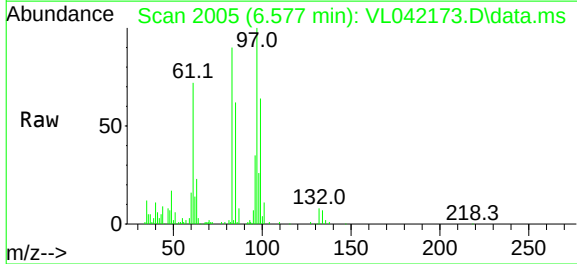
#47  
1,1,2-Trichloroethane  
Concen: 1.985 ppbv  
RT: 6.577 min Scan# 2005  
Delta R.T. 0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 41387 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 89.4  | 69.2  | 103.8 |
| 85       | 61.3  | 43.1  | 64.7  |
| 99       | 64.2  | 49.4  | 74.2  |

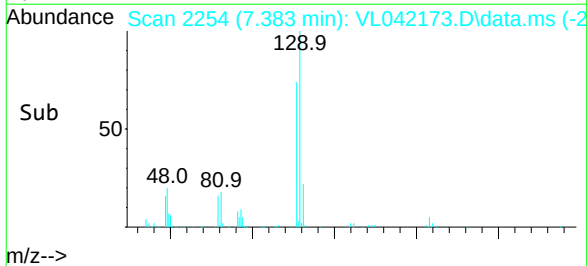
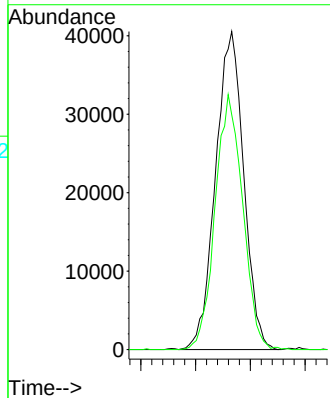
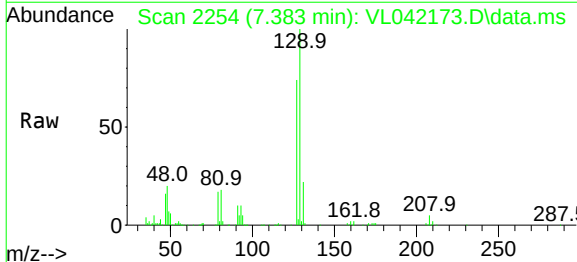
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

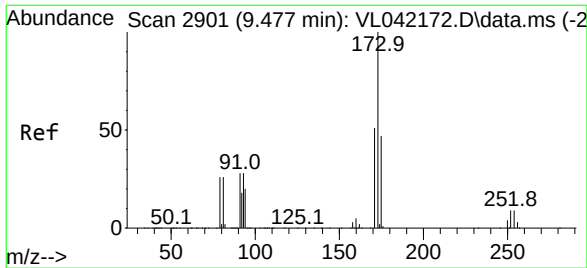


#48  
Dibromochloromethane  
Concen: 2.050 ppbv  
RT: 7.383 min Scan# 2254  
Delta R.T. 0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 72441 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 78.5  | 39.1  | 117.2 |







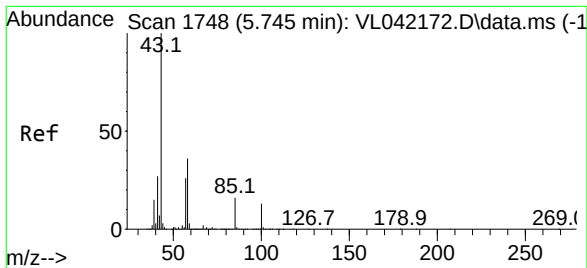
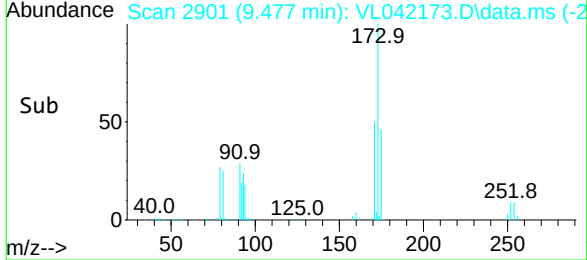
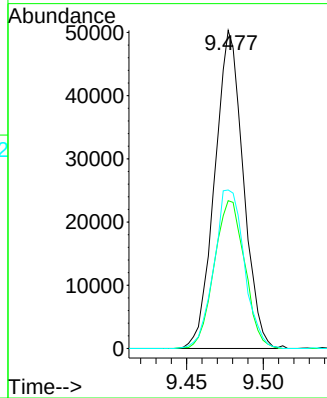
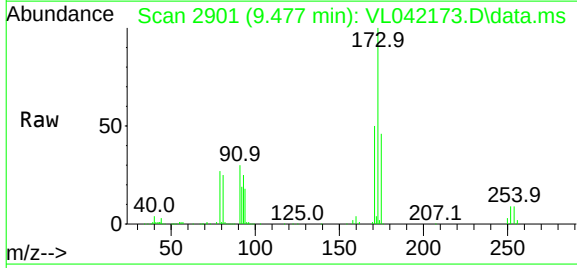
#49  
Bromoform  
Concen: 2.056 ppbv  
RT: 9.477 min Scan# 2901  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 173 Resp: 65221  
Ion Ratio Lower Upper  
173 100  
175 49.7 38.6 57.8  
171 53.0 41.8 62.6

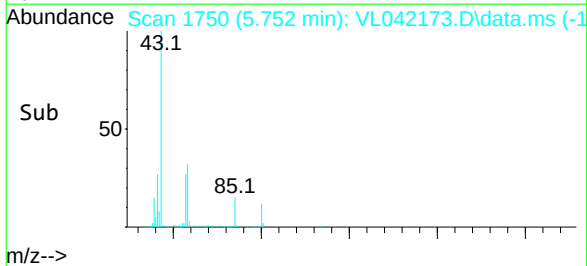
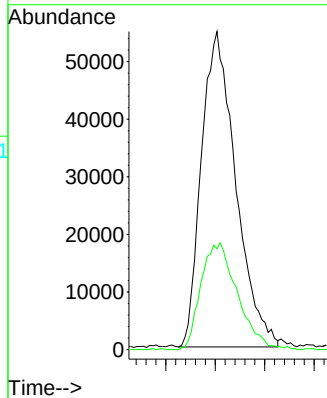
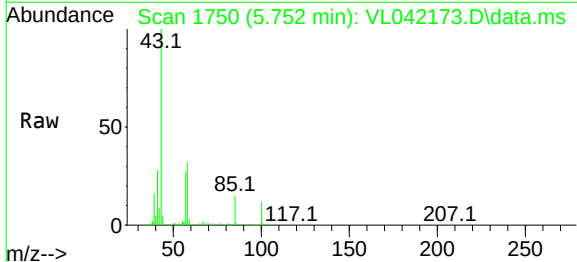
Manual Integrations  
APPROVED

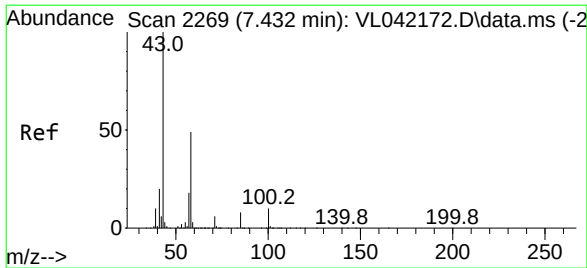
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#50  
4-Methyl-2-Pentanone  
Concen: 2.107 ppbv  
RT: 5.752 min Scan# 1750  
Delta R.T. 0.006 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 132328  
Ion Ratio Lower Upper  
43 100  
58 35.9 29.0 43.6





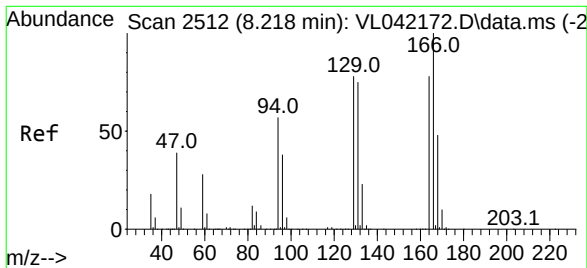
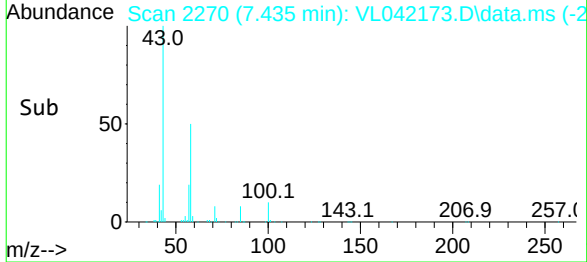
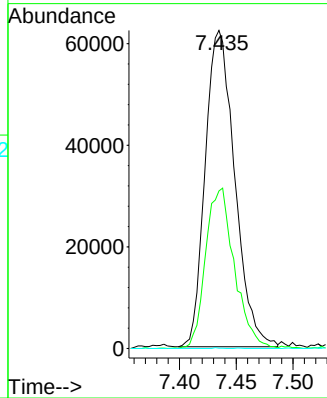
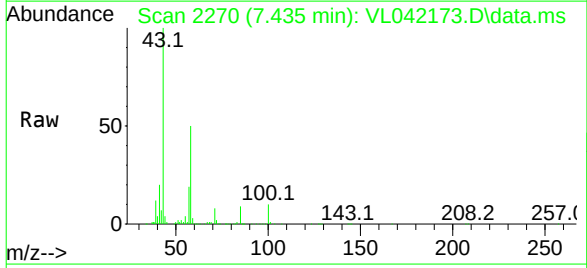
#51  
2-Hexanone  
Concen: 2.162 ppbv  
RT: 7.435 min Scan# 2269  
Delta R.T. 0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 43 Resp: 112681  
Ion Ratio Lower Upper  
43 100  
58 50.0 39.7 59.5  
98 0.0 0.1 0.1

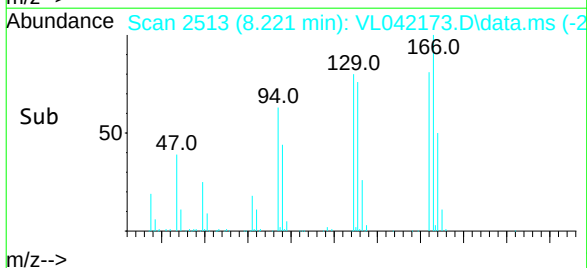
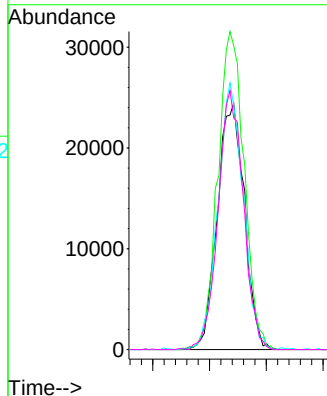
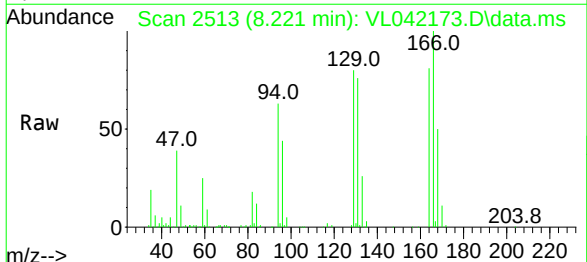
Manual Integrations  
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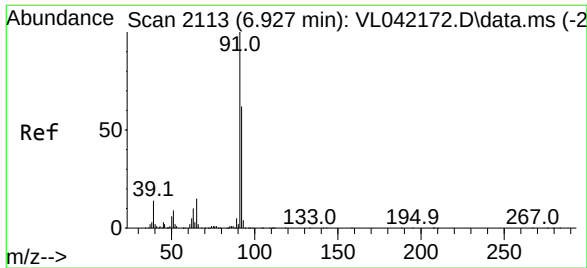
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#52  
Tetrachloroethene  
Concen: 1.888 ppbv  
RT: 8.221 min Scan# 2513  
Delta R.T. 0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion:164 Resp: 40558  
Ion Ratio Lower Upper  
164 100  
166 123.4 102.5 153.7  
129 99.2 79.8 119.8  
131 94.1 76.6 114.8





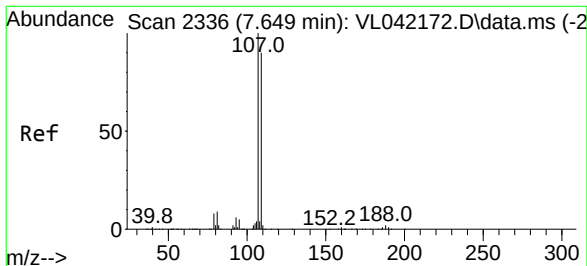
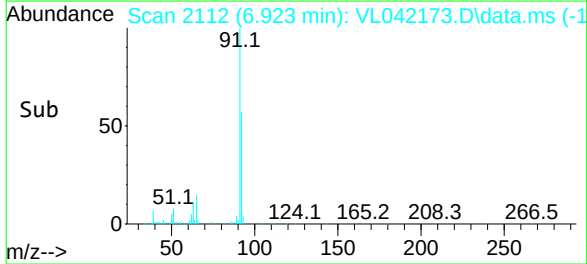
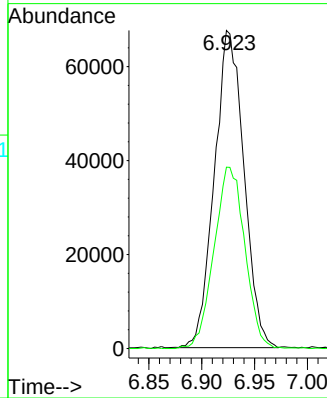
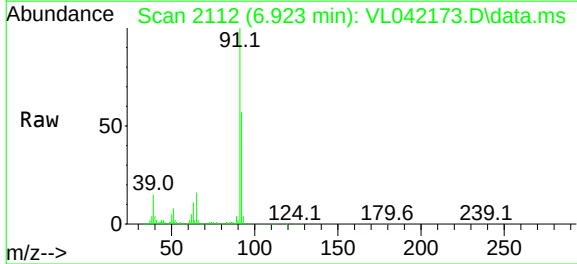
#53  
Toluene  
Concen: 2.045 ppbv  
RT: 6.923 min Scan# 2112  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 91 Resp: 131314  
Ion Ratio Lower Upper  
91 100  
92 59.6 48.4 72.6

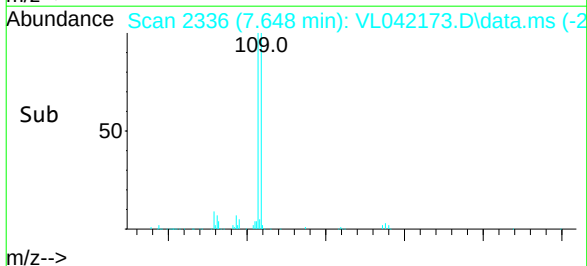
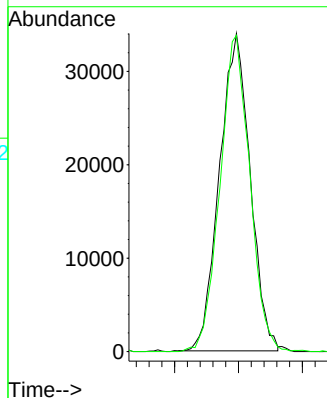
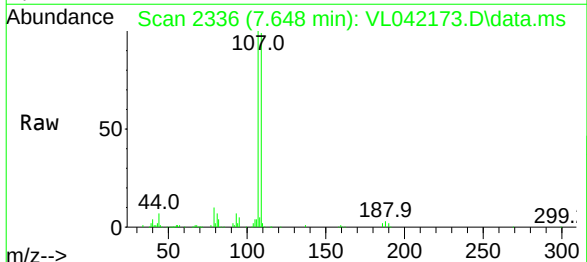
Manual Integrations  
APPROVED

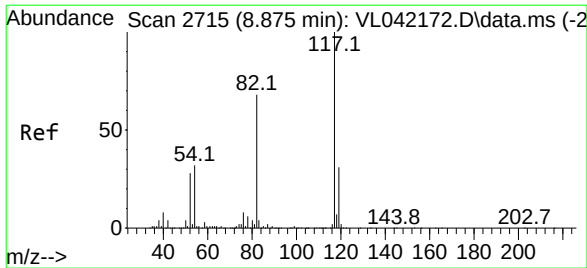
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#54  
1,2-Dibromoethane  
Concen: 1.952 ppbv  
RT: 7.648 min Scan# 2336  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion:107 Resp: 56799  
Ion Ratio Lower Upper  
107 100  
109 99.7 72.2 108.4





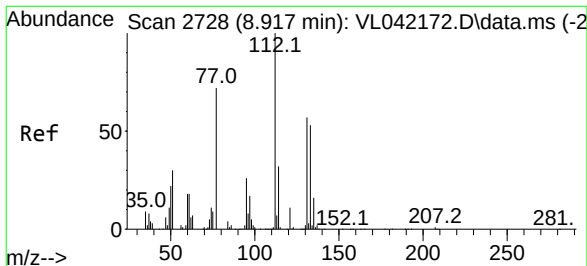
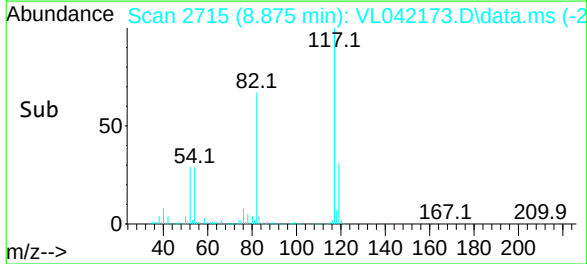
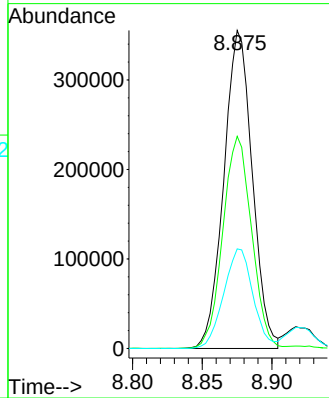
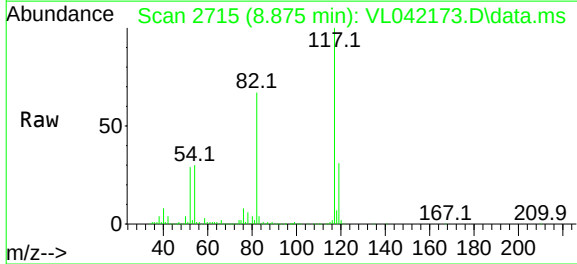
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.875 min Scan# 2715  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion:117 Resp: 504538  
Ion Ratio Lower Upper  
117 100  
82 68.2 55.8 83.6  
119 33.0 25.5 38.3

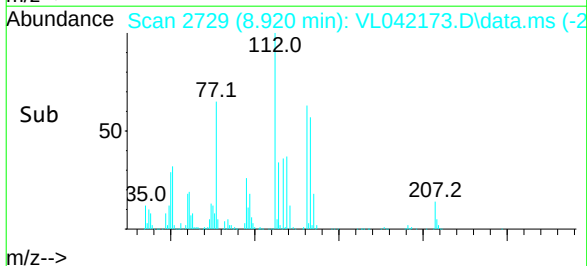
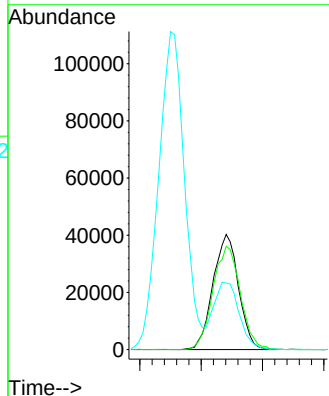
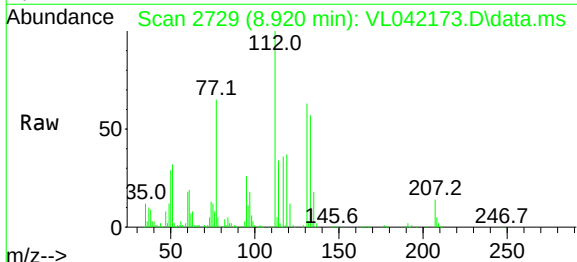
Manual Integrations  
APPROVED

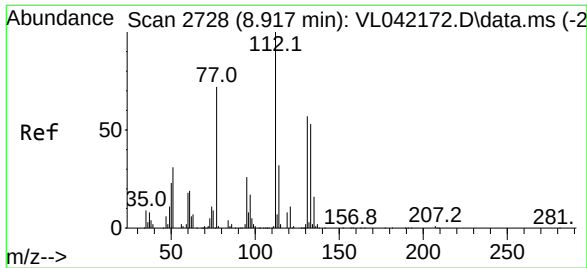
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#56  
1,1,1,2-Tetrachloroethane  
Concen: 2.093 ppbv  
RT: 8.920 min Scan# 2729  
Delta R.T. 0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion:131 Resp: 58141  
Ion Ratio Lower Upper  
131 100  
133 96.6 76.6 114.8  
119 58.3 49.8 74.6





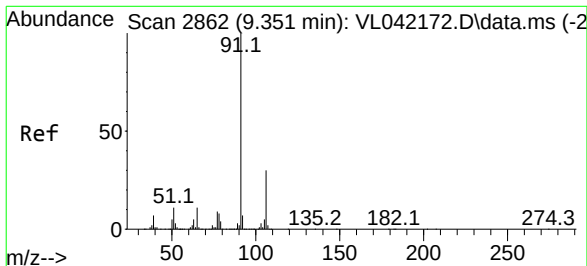
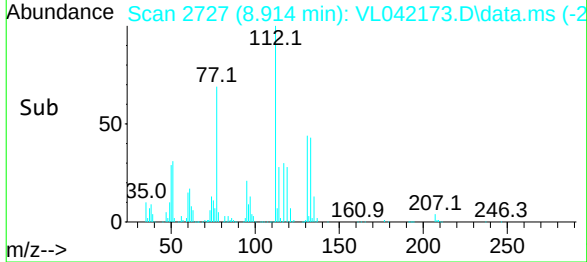
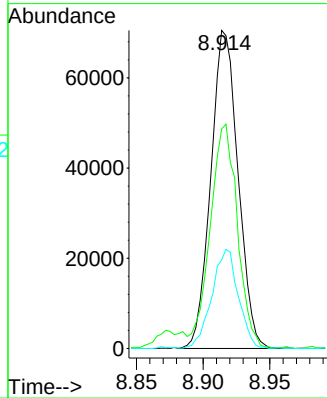
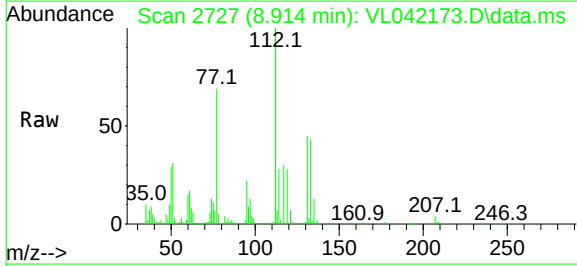
#57  
Chlorobenzene  
Concen: 2.096 ppbv  
RT: 8.914 min Scan# 2728  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 112 Resp: 100308  
Ion Ratio Lower Upper  
112 100  
77 68.8 58.2 87.2  
114 27.8 29.1 35.5#

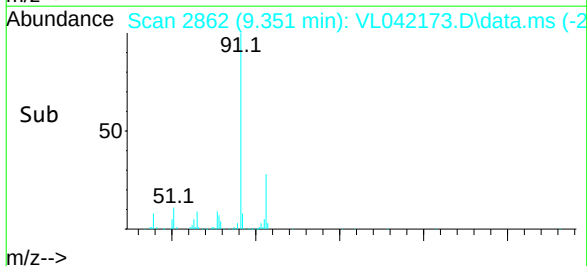
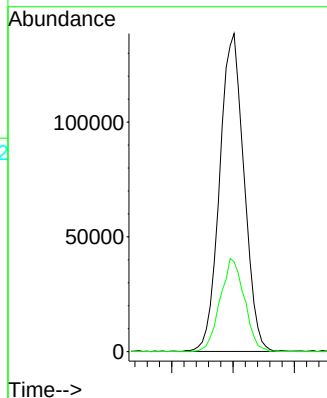
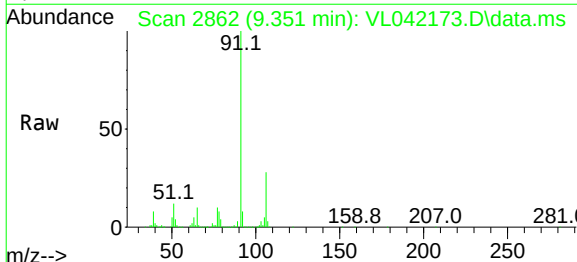
Manual Integrations  
APPROVED

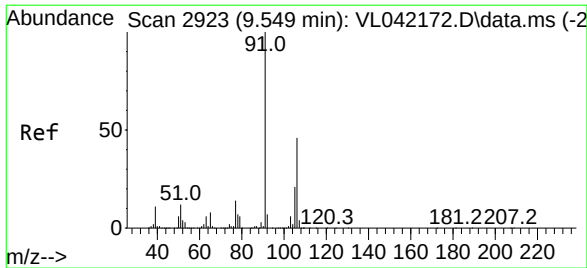
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#58  
Ethyl Benzene  
Concen: 2.132 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

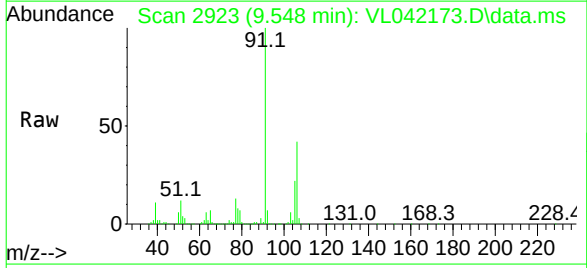
Tgt Ion: 91 Resp: 191114  
Ion Ratio Lower Upper  
91 100  
106 28.3 24.2 36.2





#59  
m/p-Xylene  
Concen: 4.181 ppbv m  
RT: 9.548 min Scan# 29  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

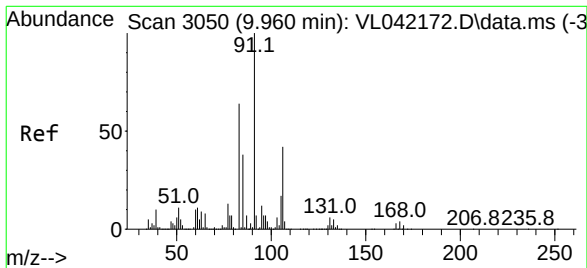
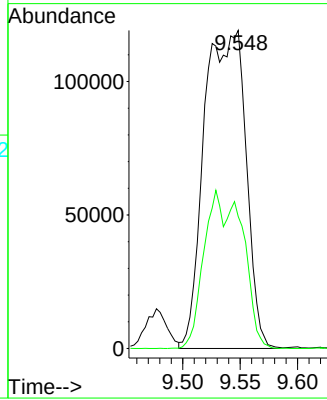
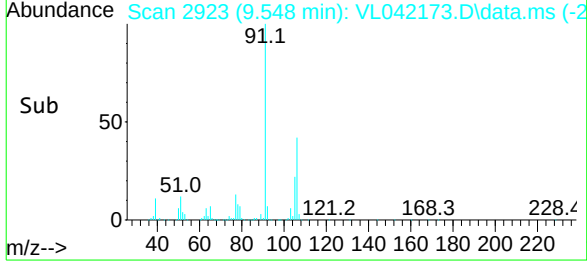
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



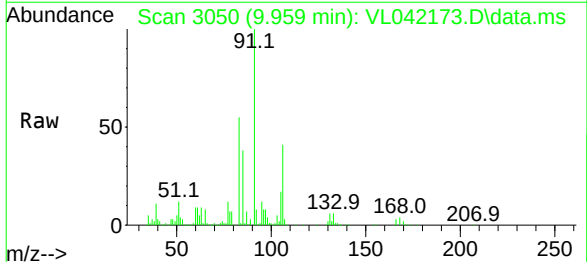
Tgt Ion: 91 Resp: 299531  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.4 54.6

Manual Integrations  
APPROVED

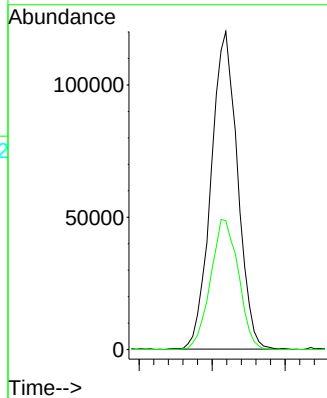
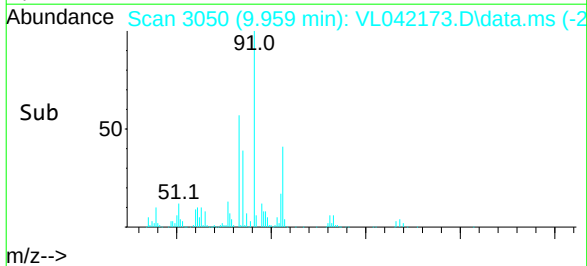
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

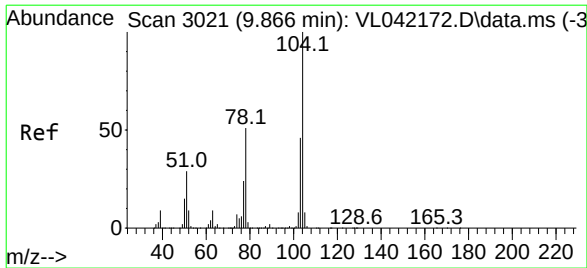


#60  
o-Xylene  
Concen: 2.109 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59



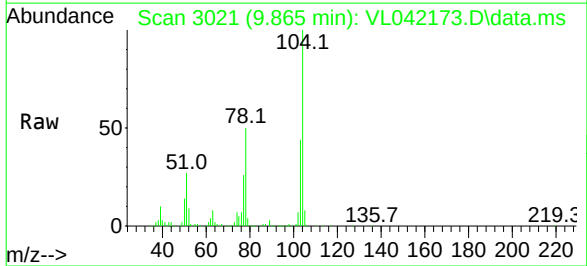
Tgt Ion: 91 Resp: 151292  
Ion Ratio Lower Upper  
91 100  
106 43.2 20.8 62.5





#61  
Styrene  
Concen: 2.089 ppbv  
RT: 9.865 min Scan# 3021  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

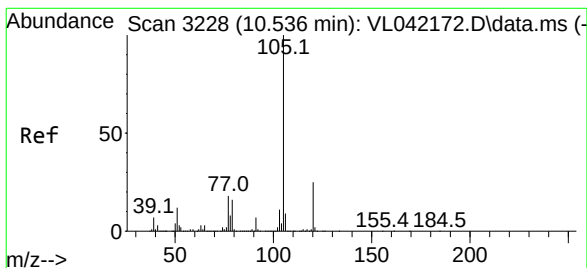
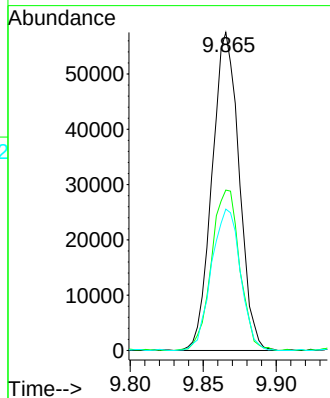
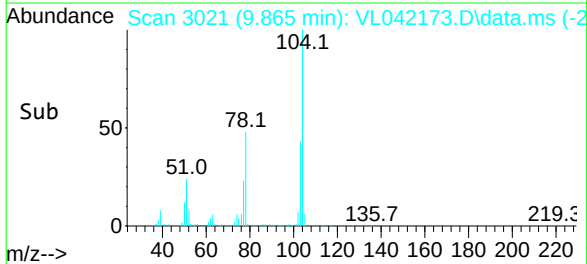
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion:104 Resp: 74134  
Ion Ratio Lower Upper  
104 100  
78 52.8 41.8 62.6  
103 47.8 37.0 55.4

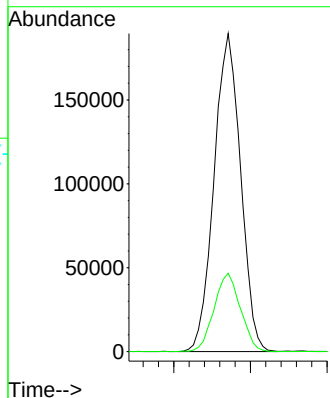
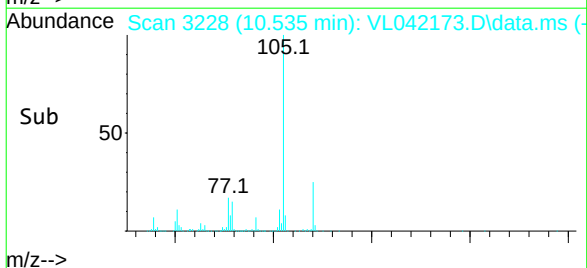
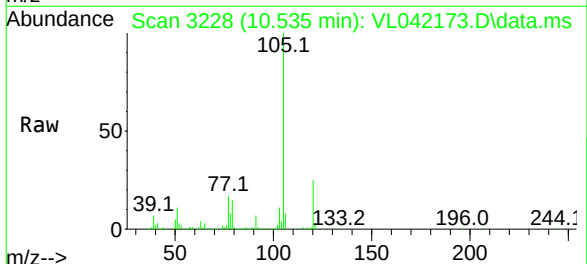
Manual Integrations  
APPROVED

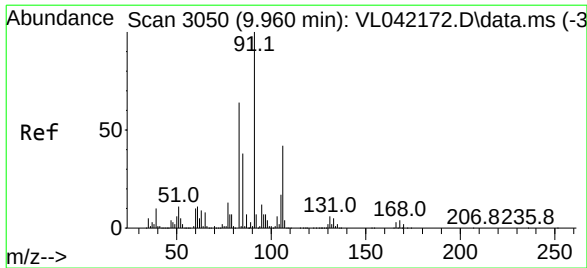
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#62  
Isopropylbenzene  
Concen: 2.127 ppbv  
RT: 10.535 min Scan# 3228  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

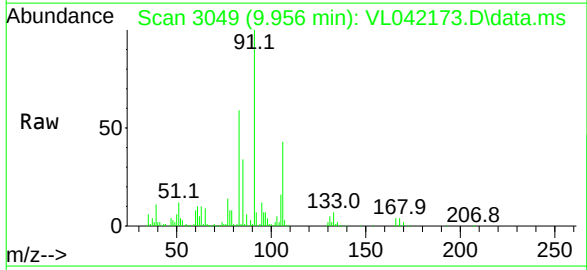
Tgt Ion:105 Resp: 228191  
Ion Ratio Lower Upper  
105 100  
120 24.4 19.9 29.9





#63  
1,1,2,2-Tetrachloroethane  
Concen: 2.067 ppbv  
RT: 9.956 min Scan# 3049  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

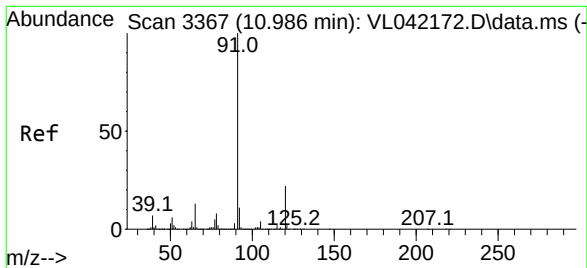
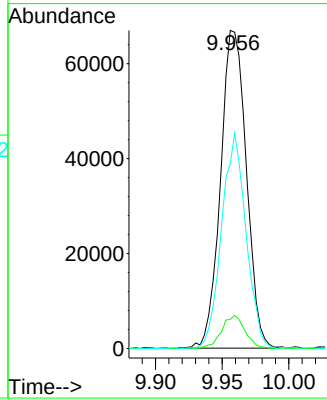
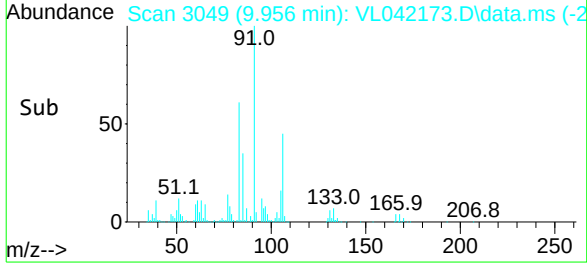
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



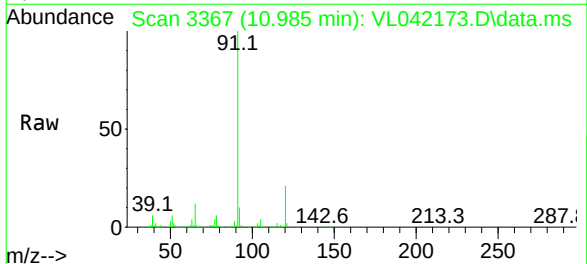
Tgt Ion: 83 Resp: 90114  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.4  
85 64.4 32.5 97.5

Manual Integrations  
APPROVED

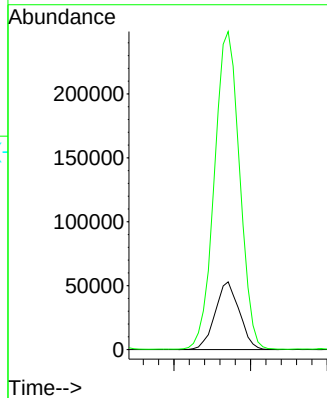
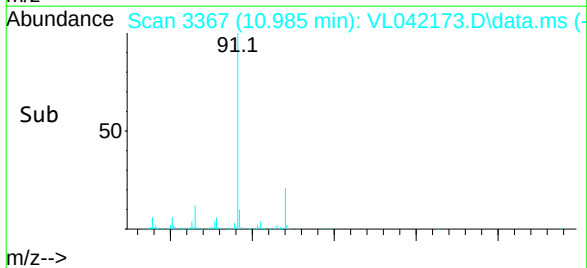
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



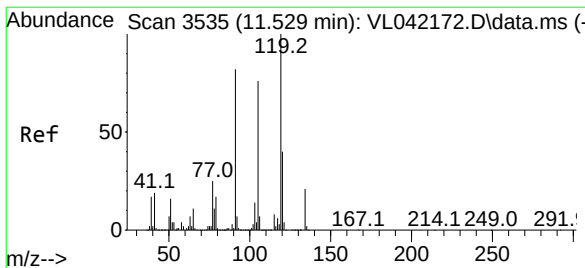
#64  
n-propylbenzene  
Concen: 2.104 ppbv  
RT: 10.985 min Scan# 3367  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59



Tgt Ion:120 Resp: 58105  
Ion Ratio Lower Upper  
120 100  
91 491.1 376.9 565.3

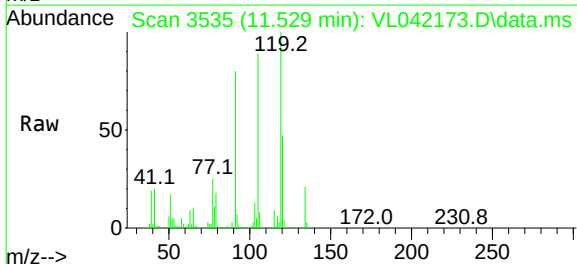






#65  
tert-Butylbenzene  
Concen: 2.180 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

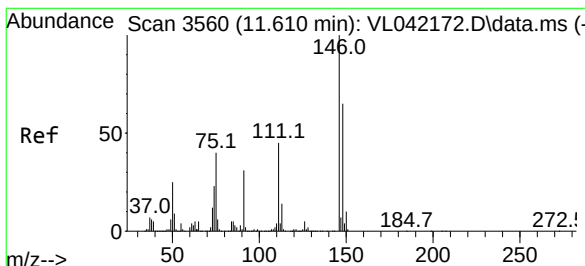
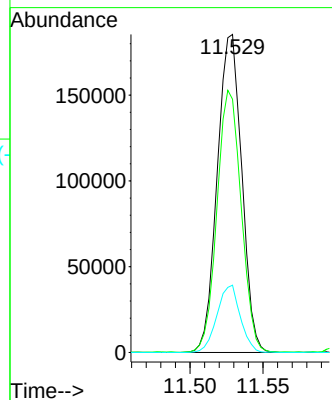
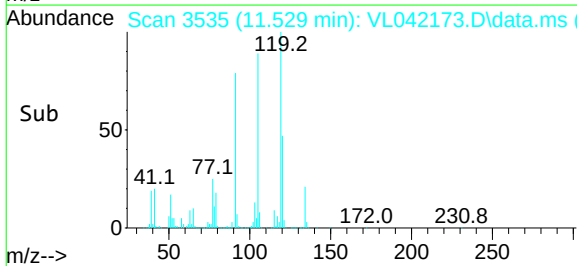
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC002



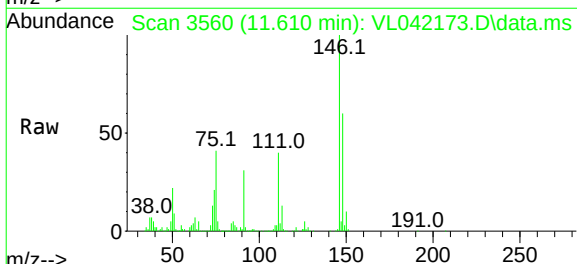
Tgt Ion: 119 Resp: 216336  
Ion Ratio Lower Upper  
119 100  
91 81.5 66.0 99.0  
134 20.2 16.7 25.1

Manual Integrations  
APPROVED

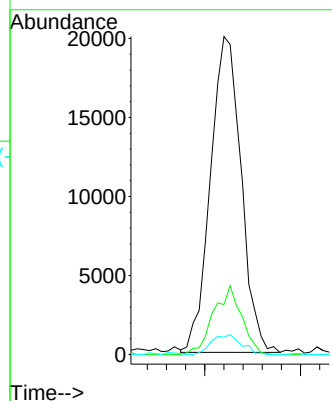
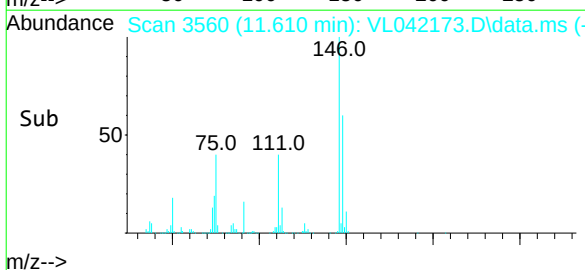
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

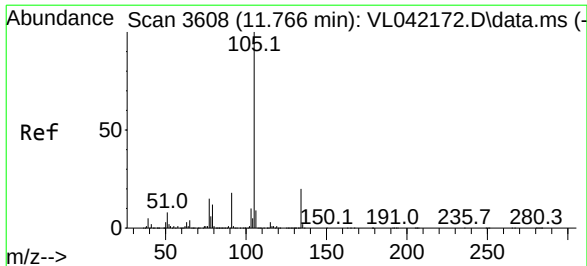


#66  
Benzyl Chloride  
Concen: 2.116 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59



Tgt Ion: 91 Resp: 22272  
Ion Ratio Lower Upper  
91 100  
126 20.0 13.8 20.6  
128 6.5 4.5 6.7





#67

sec-Butylbenzene

Concen: 2.156 ppbv

RT: 11.762 min Scan# 3608

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 105 Resp: 297381

Ion Ratio Lower Upper

105 100

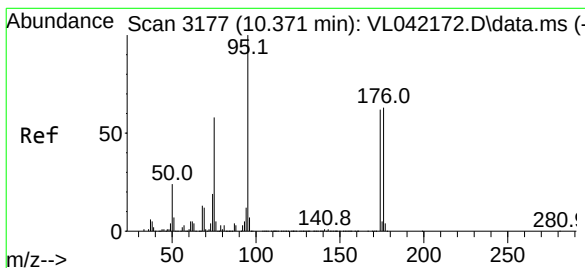
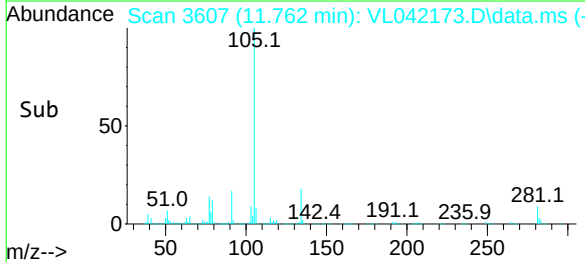
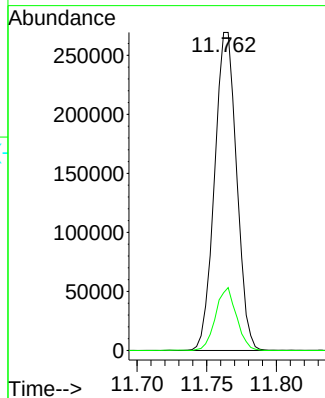
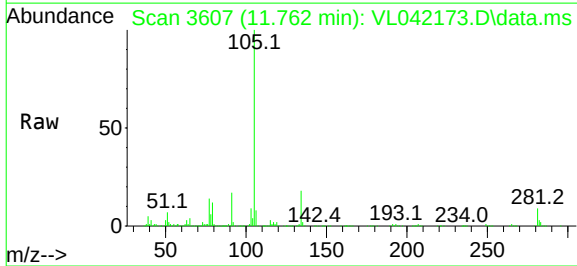
134 18.8 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.077 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

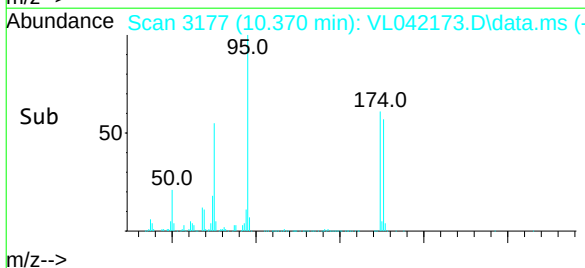
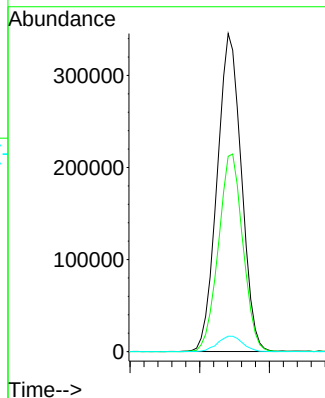
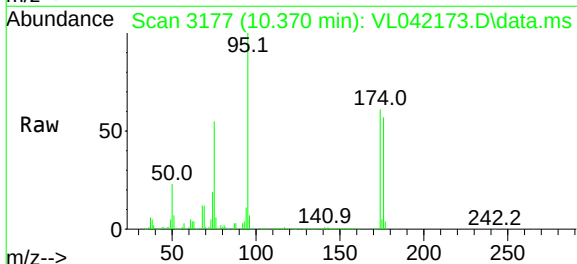
Tgt Ion: 95 Resp: 417532

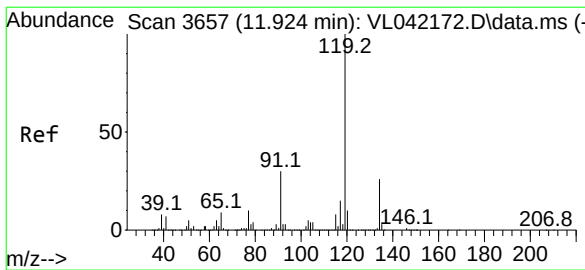
Ion Ratio Lower Upper

95 100

174 62.6 50.6 76.0

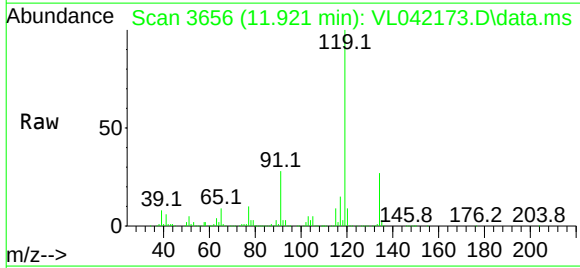
175 5.0 3.8 5.6





#69  
p-Isopropyltoluene  
Concen: 2.176 ppbv  
RT: 11.921 min Scan# 3657  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

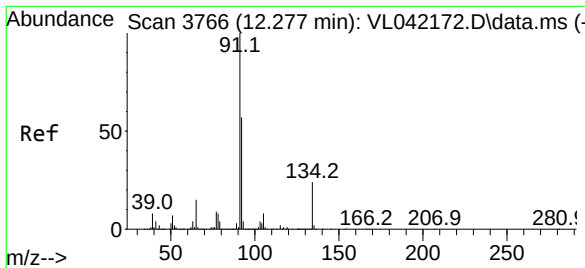
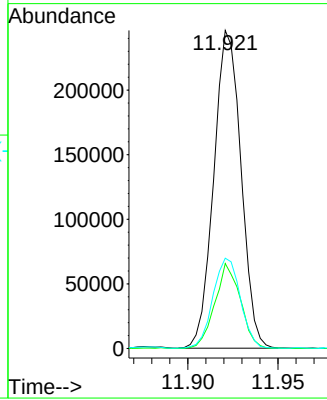
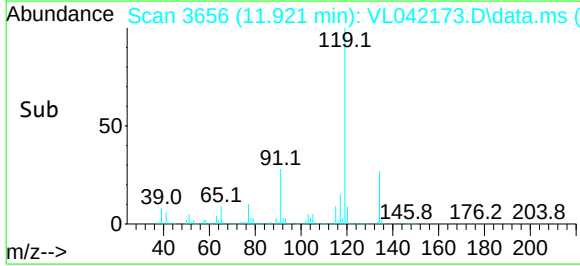
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



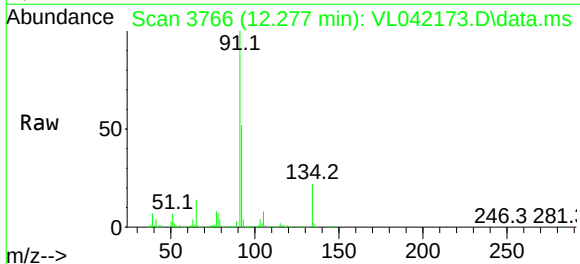
Tgt Ion: 119 Resp: 258357  
Ion Ratio Lower Upper  
119 100  
134 25.2 20.4 30.6  
91 29.5 23.7 35.5

Manual Integrations  
APPROVED

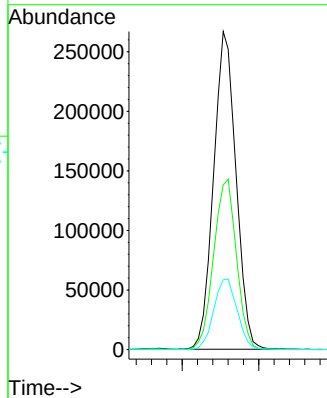
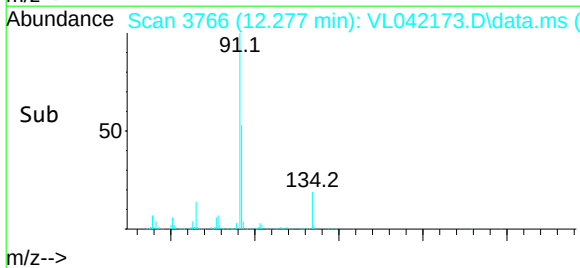
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

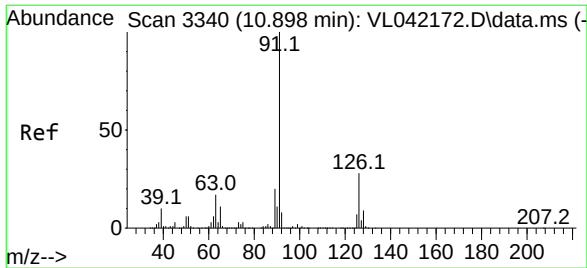


#70  
n-Butylbenzene  
Concen: 2.228 ppbv  
RT: 12.277 min Scan# 3766  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59



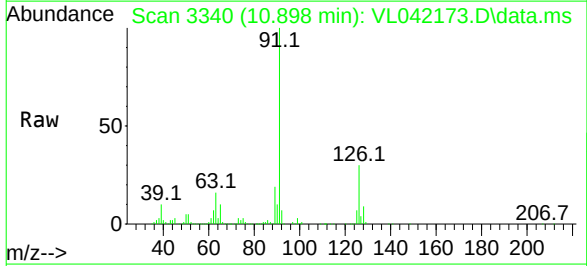
Tgt Ion: 91 Resp: 270616  
Ion Ratio Lower Upper  
91 100  
92 55.1 44.9 67.3  
134 23.3 19.2 28.8





#71  
2-Chlorotoluene  
Concen: 2.132 ppbv  
RT: 10.898 min Scan# 3340  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

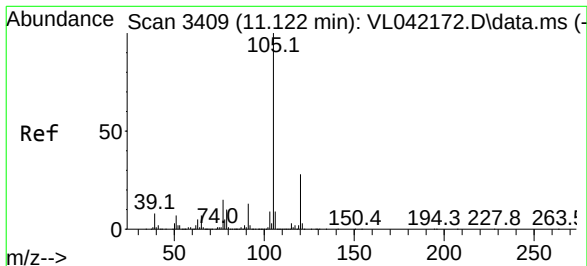
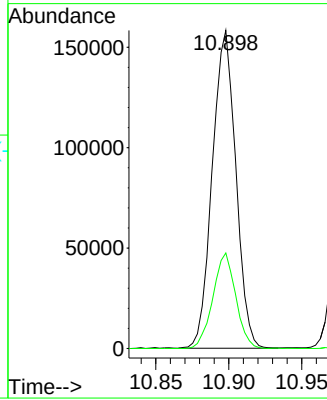
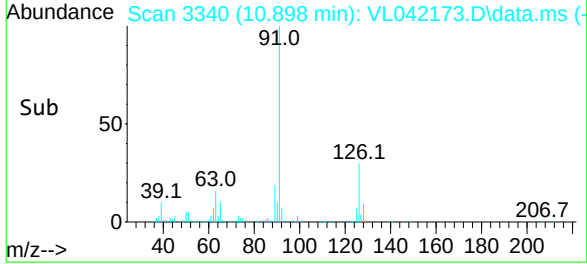
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



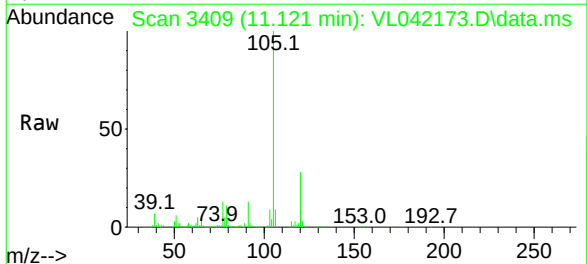
Tgt Ion: 91 Resp: 177487  
Ion Ratio Lower Upper  
91 100  
126 29.2 11.6 46.4

Manual Integrations  
APPROVED

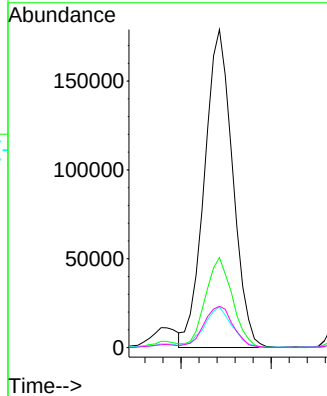
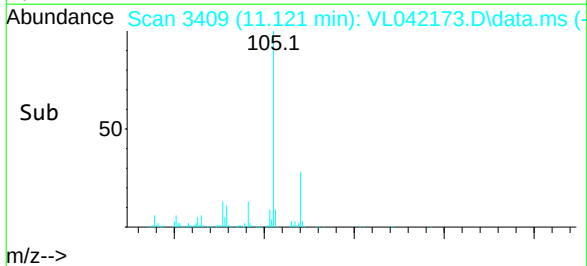
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

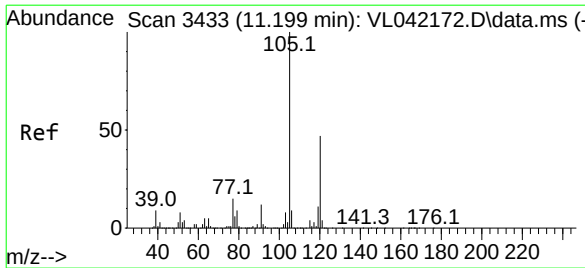


#72  
4-Ethyltoluene  
Concen: 2.179 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59



Tgt Ion:105 Resp: 194660  
Ion Ratio Lower Upper  
105 100  
120 29.1 23.4 35.0  
91 13.7 10.3 15.5  
77 14.7 11.4 17.2





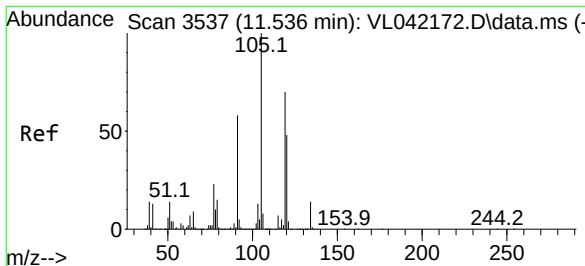
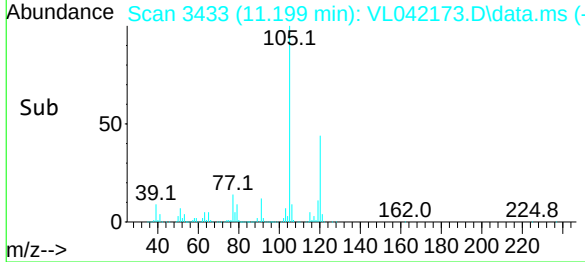
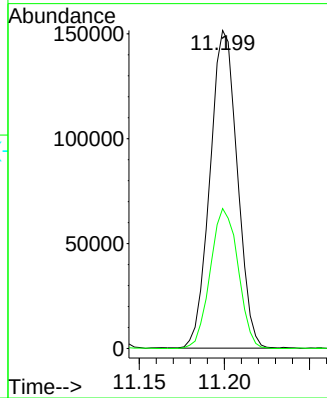
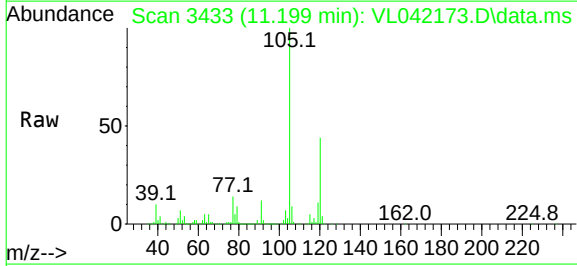
#73  
1,3,5-Trimethylbenzene  
Concen: 2.169 ppbv  
RT: 11.199 min Scan# 3433  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion:105 Resp: 169221  
Ion Ratio Lower Upper  
105 100  
120 44.0 37.4 56.0

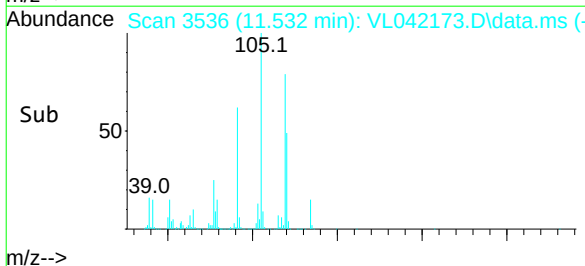
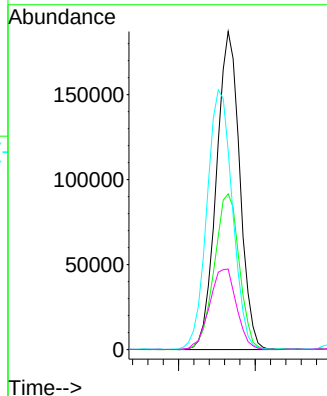
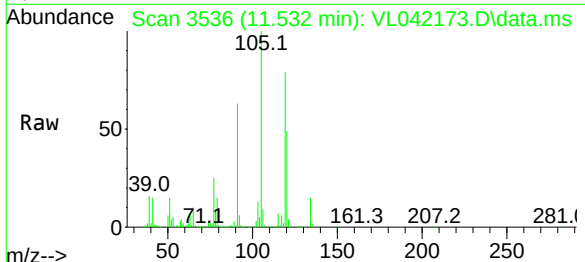
Manual Integrations  
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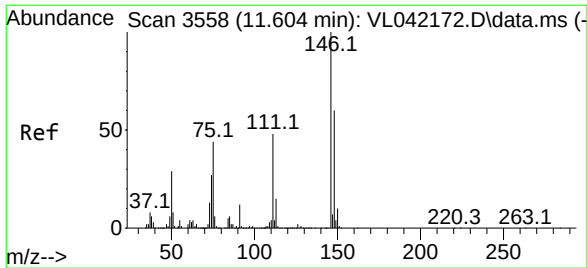
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#74  
1,2,4-Trimethylbenzene  
Concen: 2.207 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 198351  
Ion Ratio Lower Upper  
105 100  
120 49.0 38.6 58.0  
91 62.4 46.2 69.2  
77 25.3 18.6 27.8





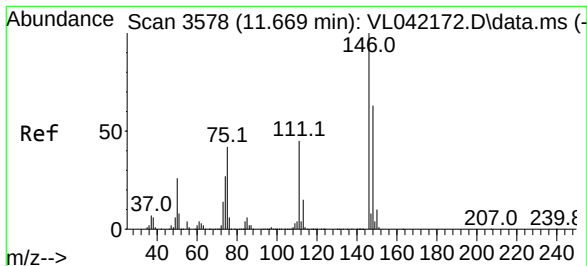
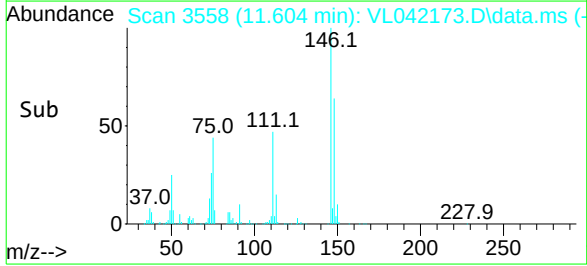
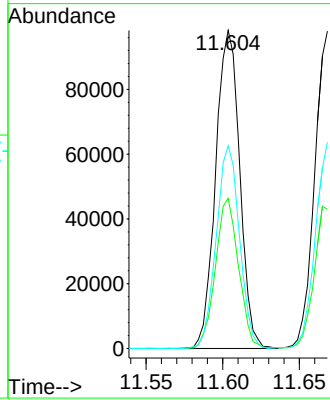
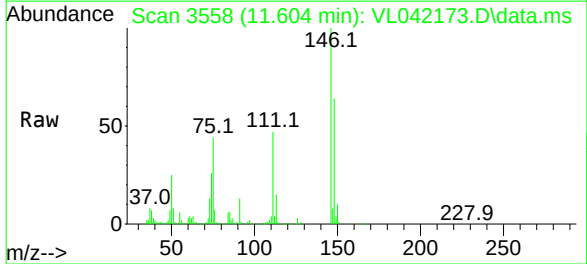
#75  
1,3-Dichlorobenzene  
Concen: 2.175 ppbv  
RT: 11.604 min Scan# 3558  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 107217 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 45.5  | 23.8  | 71.2   |
| 148       | 61.6  | 31.9  | 95.9   |

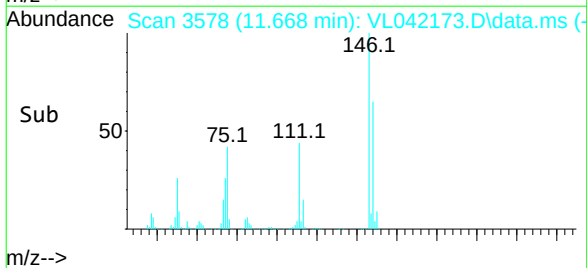
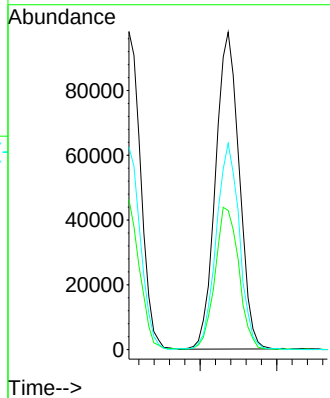
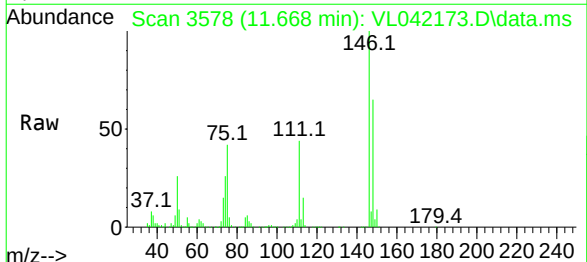
Manual Integrations  
APPROVED

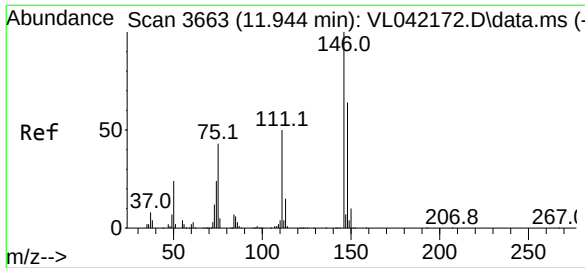
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#76  
1,4-Dichlorobenzene  
Concen: 2.139 ppbv  
RT: 11.668 min Scan# 3578  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

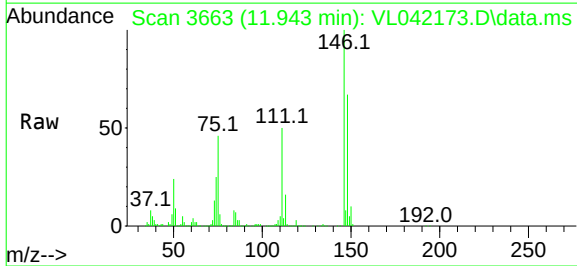
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 104925 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 45.3  | 23.0  | 69.0   |
| 148       | 64.0  | 31.9  | 95.7   |





#77  
1,2-Dichlorobenzene  
Concen: 2.132 ppbv  
RT: 11.943 min Scan# 3663  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

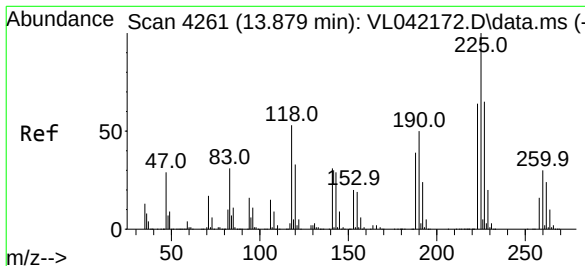
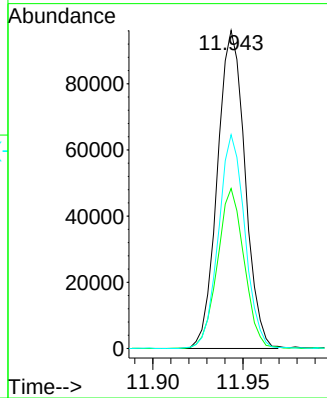
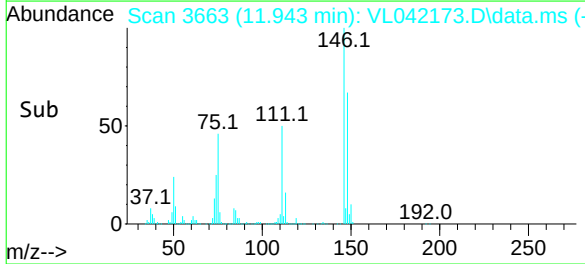
Instrument : MSVOA\_L  
ClientSampleId : VSTDICC002



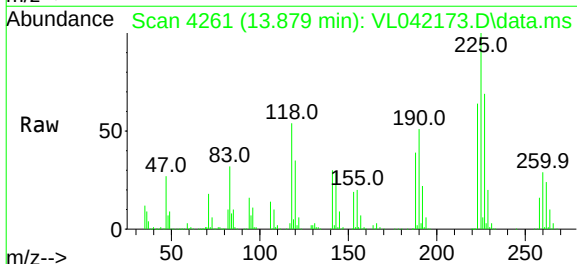
Tgt Ion: 146 Resp: 102310  
Ion Ratio Lower Upper  
146 100  
111 48.8 24.8 74.3  
148 64.6 31.6 94.8

Manual Integrations  
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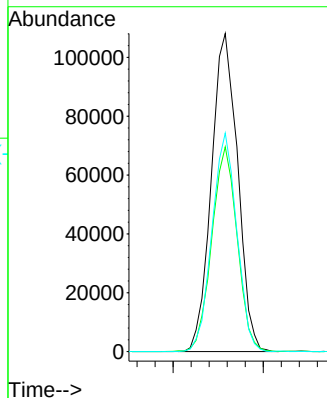
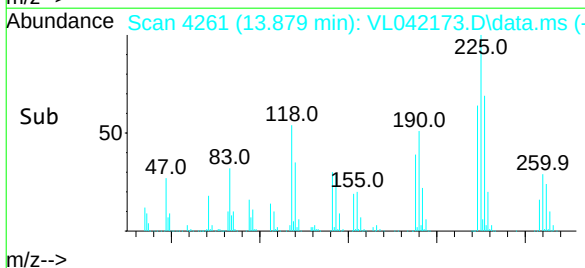
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

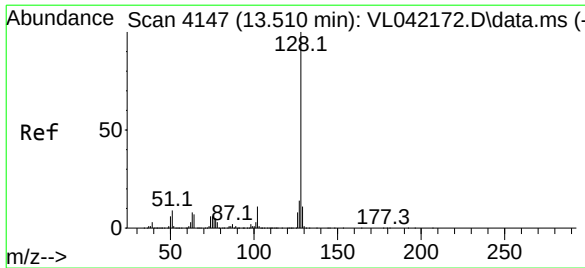


#78  
Hexachloro-1,3-Butadiene  
Concen: 2.242 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59



Tgt Ion: 225 Resp: 109539  
Ion Ratio Lower Upper  
225 100  
223 62.2 50.6 76.0  
227 64.9 51.2 76.8





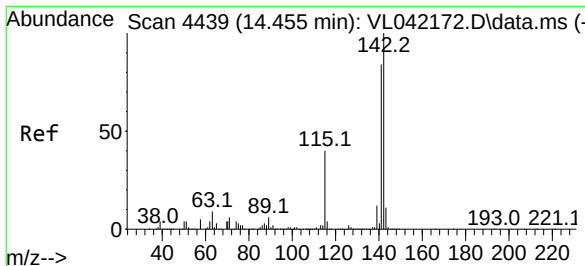
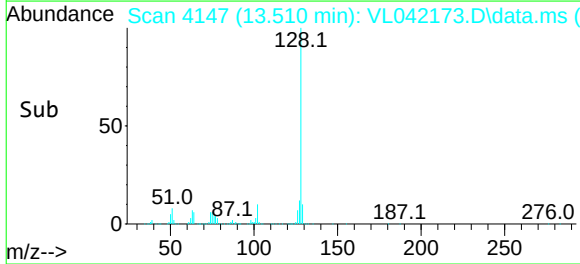
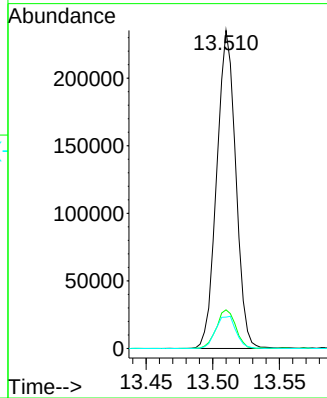
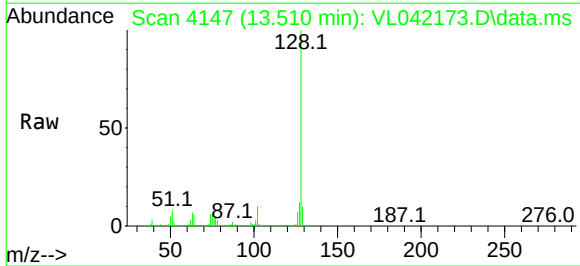
#79  
Naphthalene  
Concen: 2.375 ppbv  
RT: 13.510 min Scan# 4147  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 233451 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 12.1  | 10.8  | 16.2   |
| 129       | 9.9   | 9.0   | 13.4   |

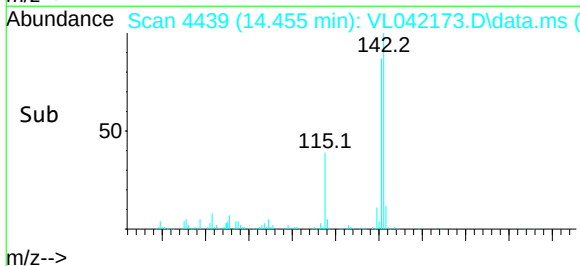
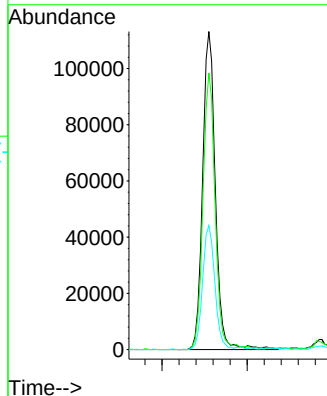
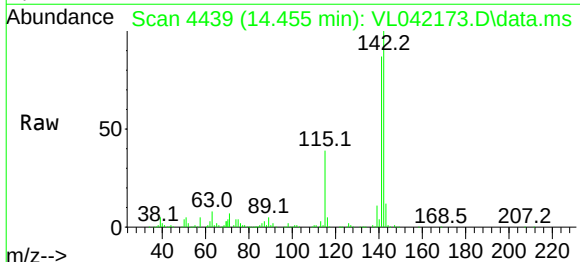
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

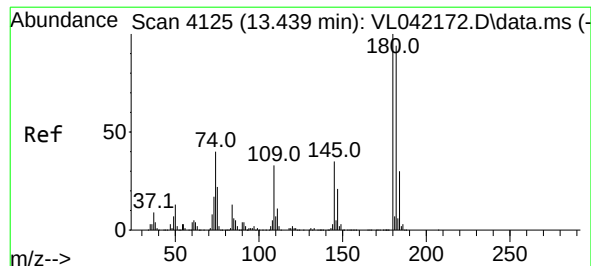


#80  
Naphthalene, 2-methyl-  
Concen: 2.451 ppbv  
RT: 14.455 min Scan# 4439  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 117313 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 83.5  | 66.3  | 99.5   |
| 115       | 38.5  | 31.6  | 47.4   |

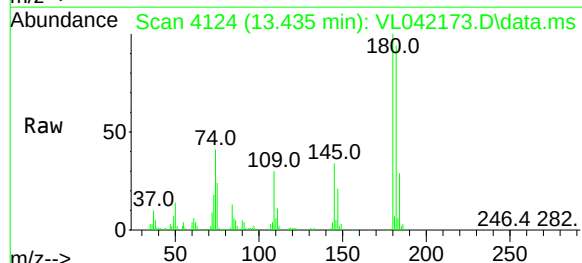






#81  
1,2,4-Trichlorobenzene  
Concen: 2.288 ppbv  
RT: 13.435 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

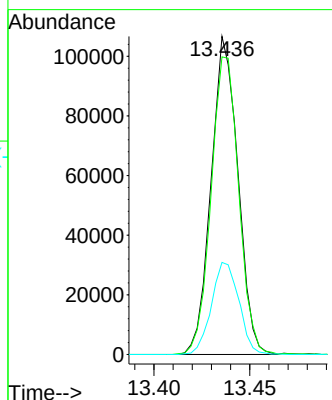
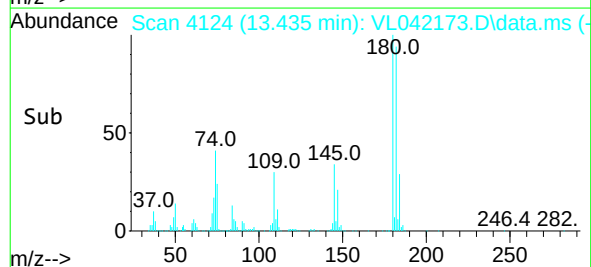
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion:180 Resp: 103765  
Ion Ratio Lower Upper  
180 100  
182 97.0 75.1 112.7  
184 29.6 24.4 36.6

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



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

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

### 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    | 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

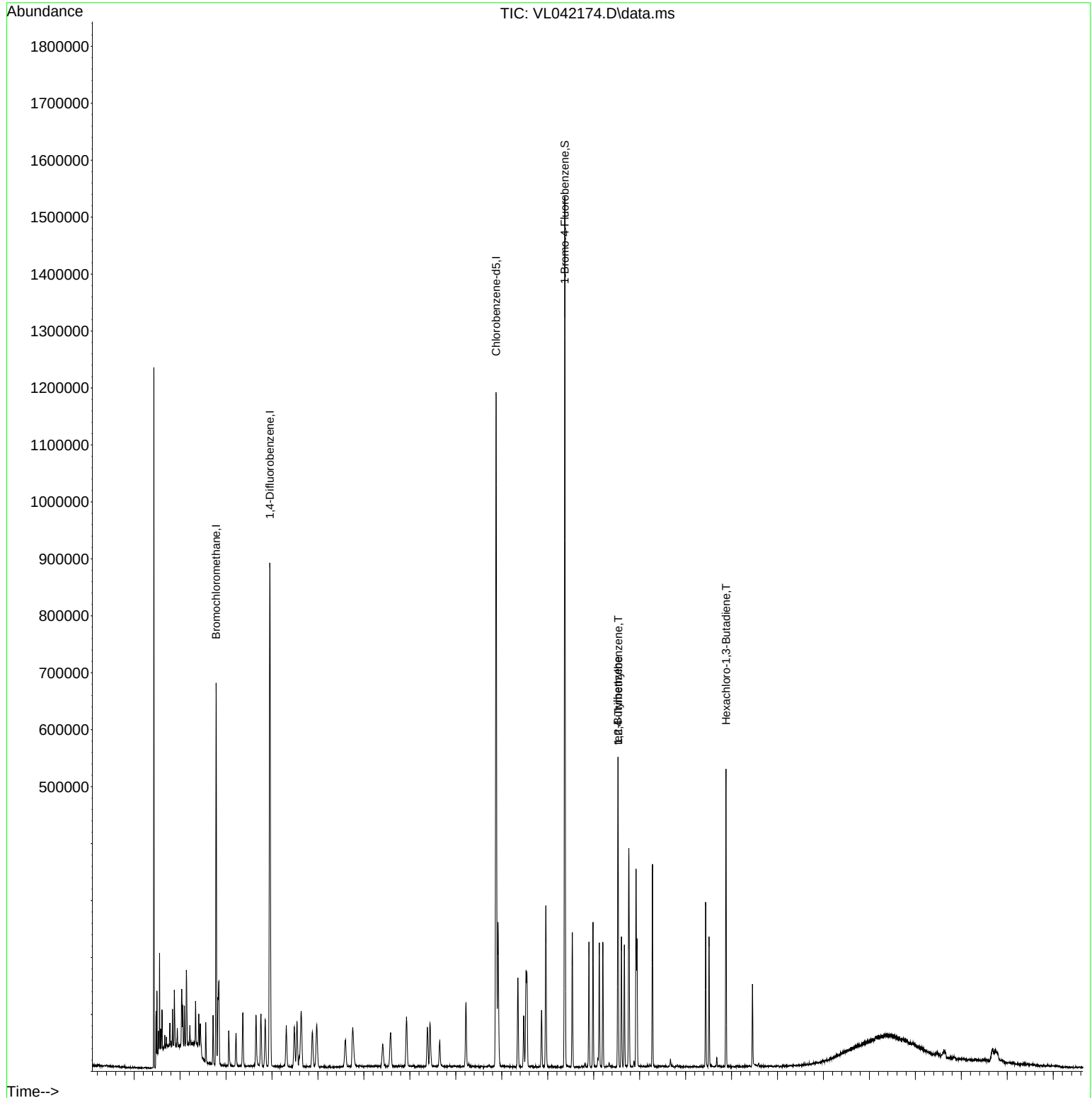
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042174.D  
Acq On : 27 Mar 2025 09:30  
Operator : SY/MD  
Sample : VSTDICC001  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

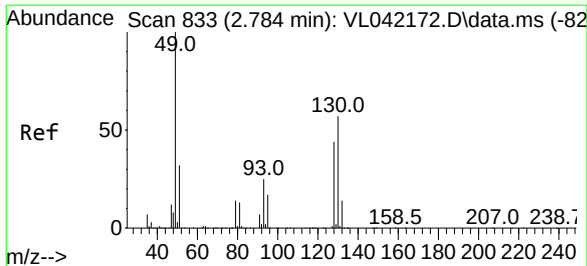
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

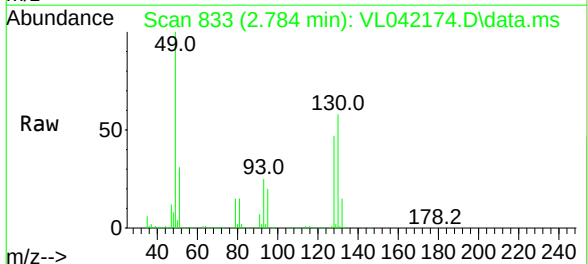
Quant Time: Mar 28 01:33:49 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 833  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

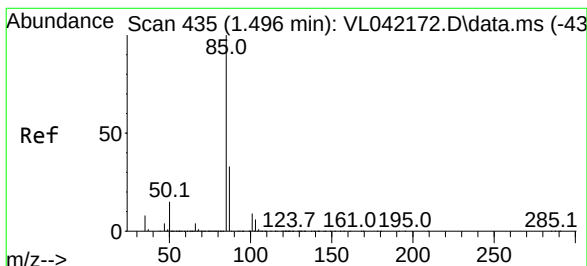
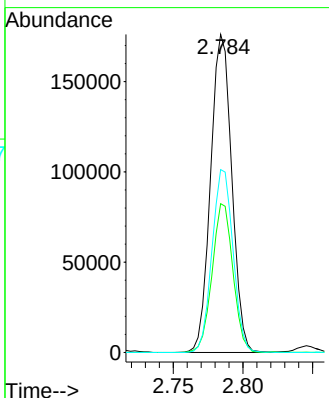
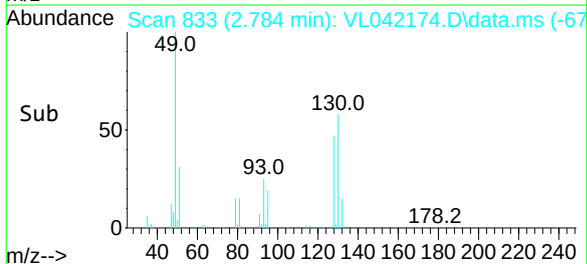
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



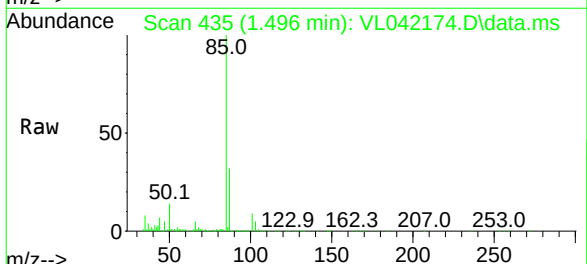
Tgt Ion: 49 Resp: 186244  
Ion Ratio Lower Upper  
49 100  
128 46.2 22.9 68.5  
130 57.0 28.8 86.4

Manual Integrations  
APPROVED

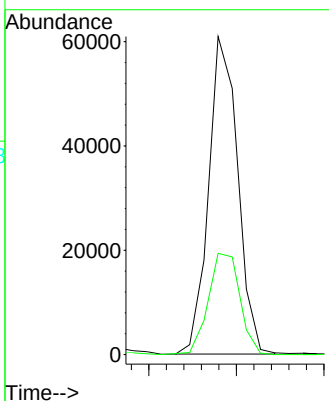
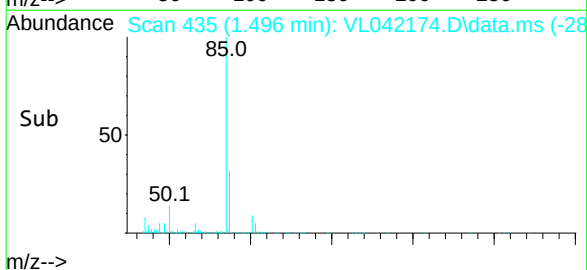
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

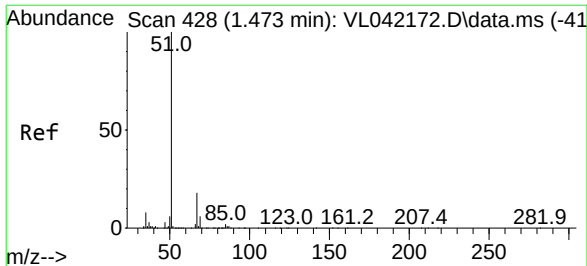


#2  
Dichlorodifluoromethane  
Concen: 1.026 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30



Tgt Ion: 85 Resp: 28203  
Ion Ratio Lower Upper  
85 100  
87 31.9 26.1 39.1





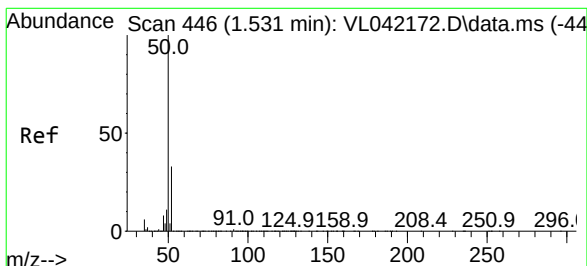
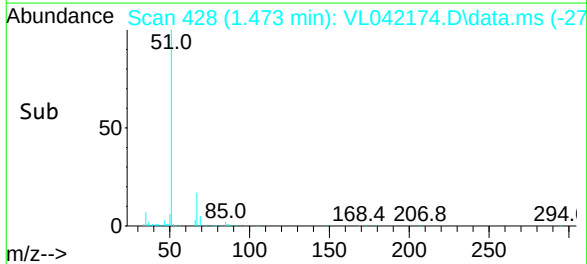
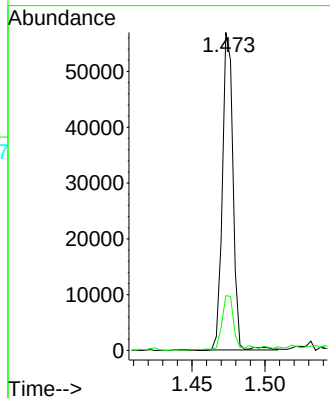
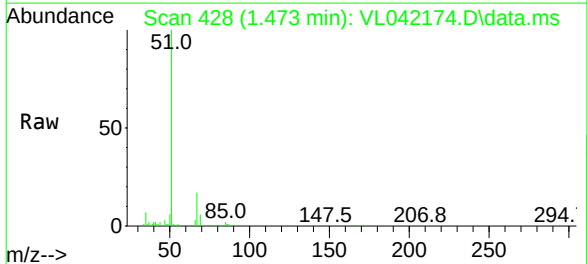
#3  
Chlorodifluoromethane  
Concen: 1.021 ppbv  
RT: 1.473 min Scan# 428  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 51 Resp: 28693  
Ion Ratio Lower Upper  
51 100  
67 21.5 15.0 22.6

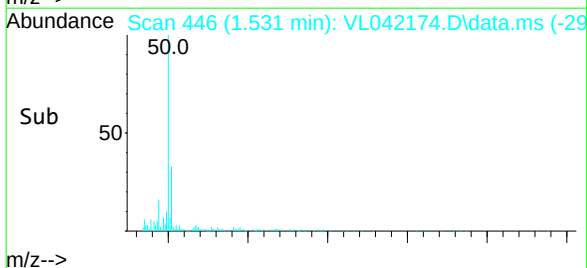
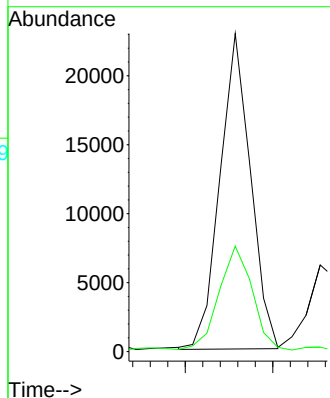
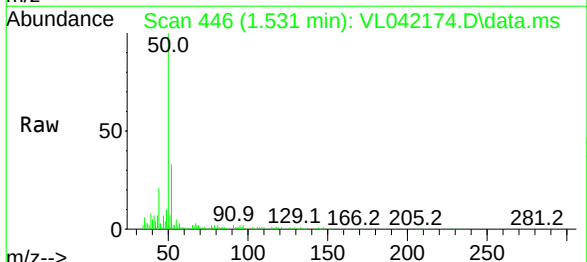
Manual Integrations  
APPROVED

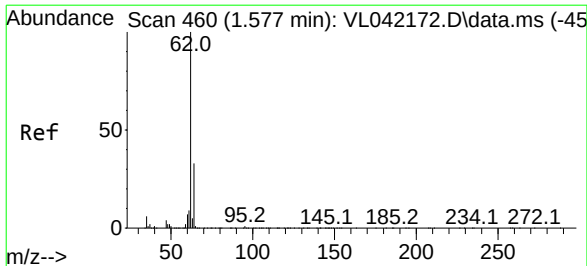
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#4  
Chloromethane  
Concen: 0.989 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 50 Resp: 11111  
Ion Ratio Lower Upper  
50 100  
52 32.9 26.1 39.1





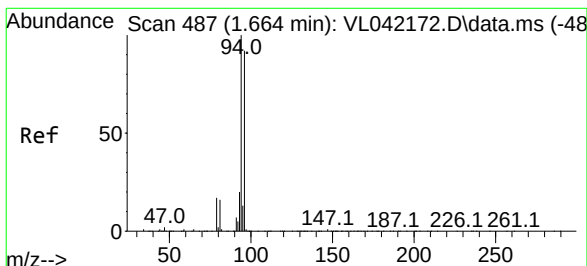
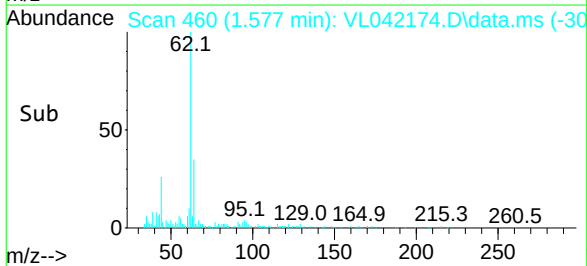
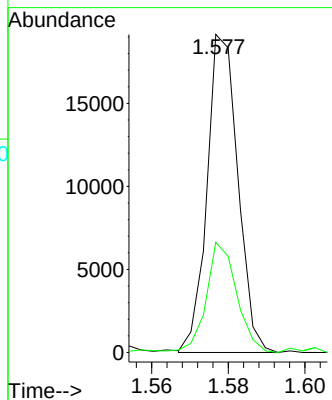
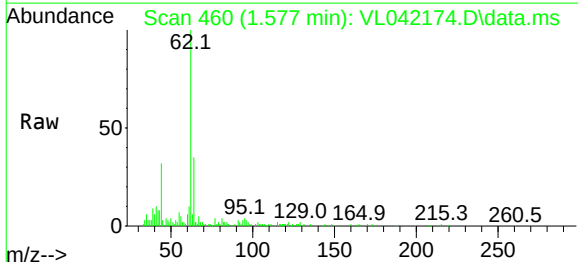
#5  
 Vinyl Chloride  
 Concen: 0.936 ppbv  
 RT: 1.577 min Scan# 460  
 Delta R.T. 0.000 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICC001

Tgt Ion: 62 Resp: 10723  
 Ion Ratio Lower Upper  
 62 100  
 64 34.6 26.6 40.0

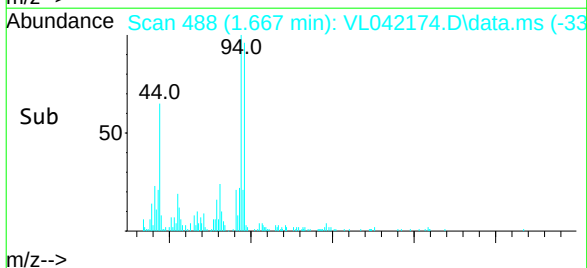
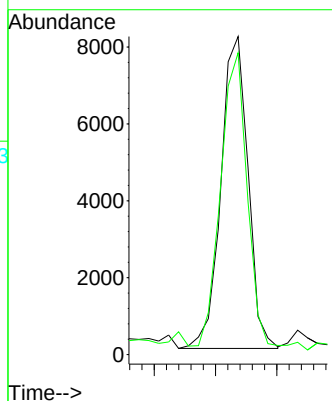
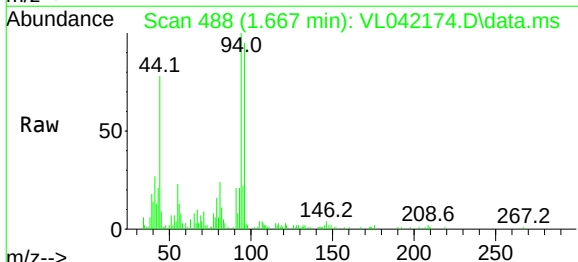
Manual Integrations  
 APPROVED

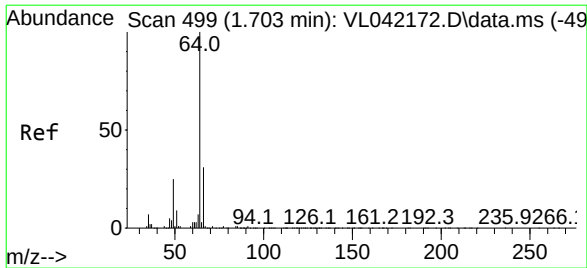
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#6  
 Bromomethane  
 Concen: 0.979 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. 0.003 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

Tgt Ion: 94 Resp: 4984  
 Ion Ratio Lower Upper  
 94 100  
 96 93.8 73.1 109.7





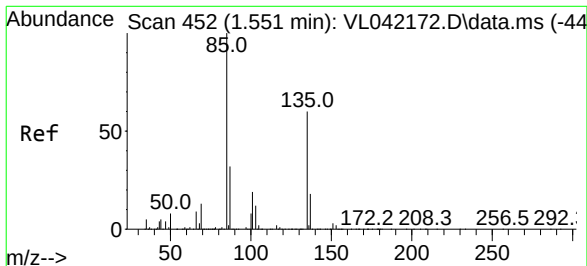
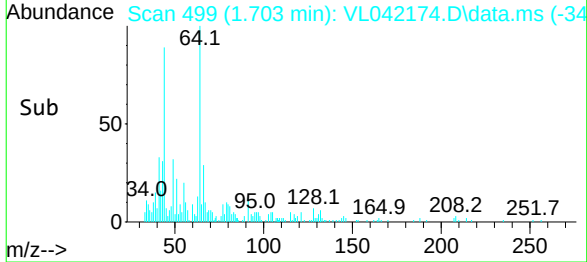
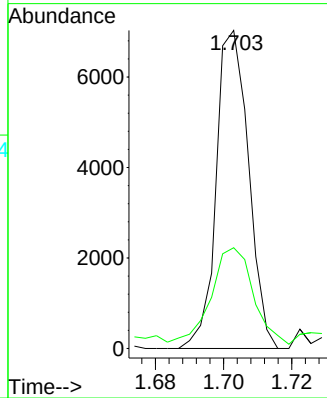
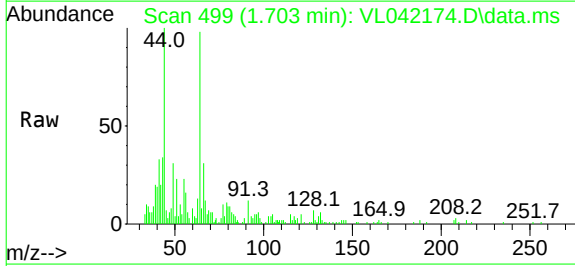
#7  
Chloroethane  
Concen: 1.025 ppbv  
RT: 1.703 min Scan# 49  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 64 Resp: 4622  
Ion Ratio Lower Upper  
64 100  
66 31.7 25.2 37.8

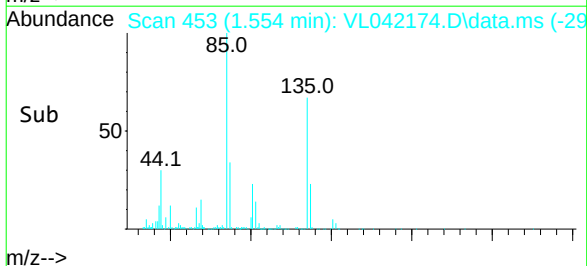
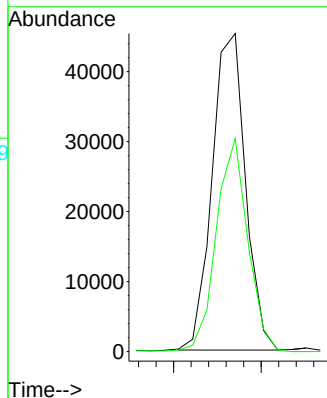
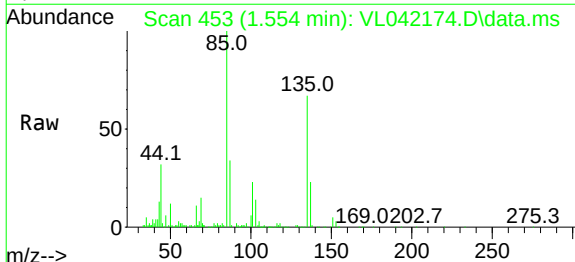
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

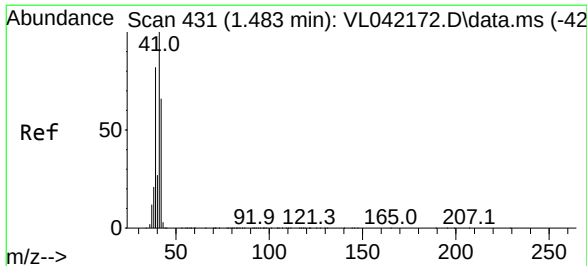


#8  
Dichlorotetrafluoroethane  
Concen: 1.020 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 85 Resp: 23886  
Ion Ratio Lower Upper  
85 100  
135 64.2 52.4 78.6

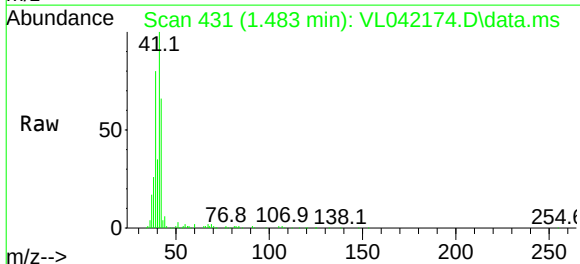






#9  
Propene  
Concen: 1.082 ppbv m  
RT: 1.483 min Scan# 431  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

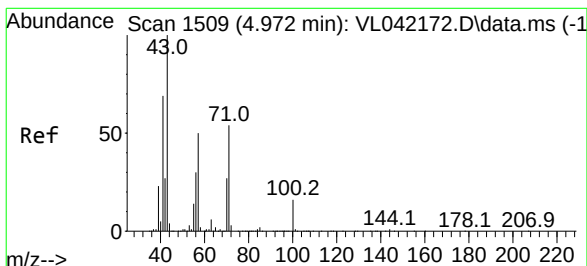
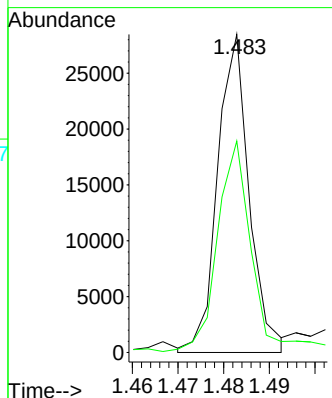
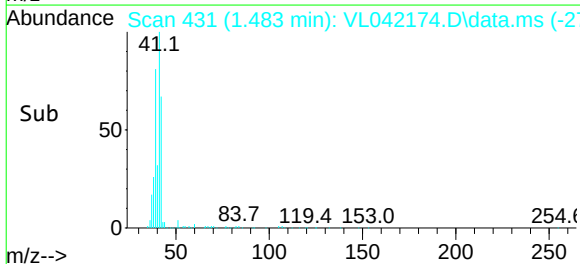
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



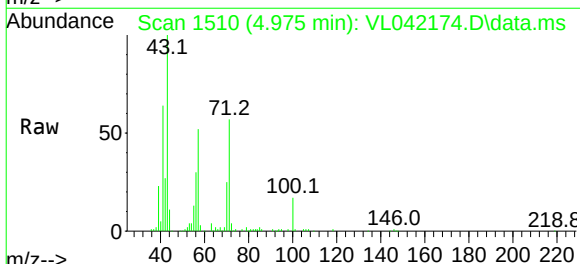
Tgt Ion: 41 Resp: 13699  
Ion Ratio Lower Upper  
41 100  
42 7.5 55.4 83.2#

Manual Integrations  
APPROVED

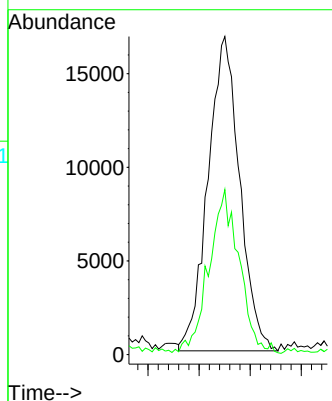
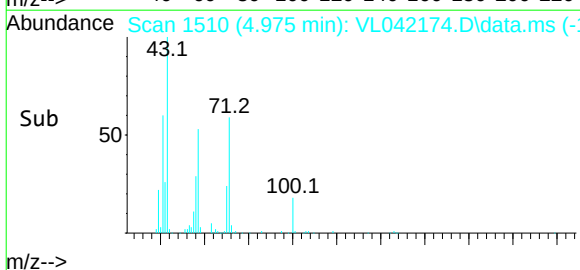
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

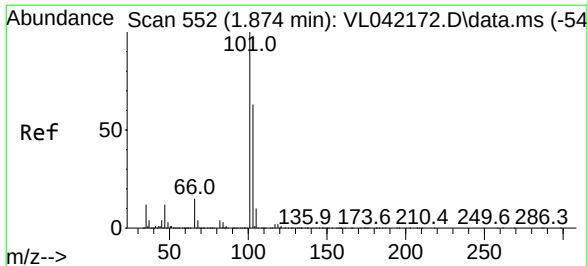


#10  
Heptane  
Concen: 1.055 ppbv  
RT: 4.975 min Scan# 1510  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30



Tgt Ion: 43 Resp: 36132  
Ion Ratio Lower Upper  
43 100  
57 49.6 39.4 59.2





#11  
Trichlorofluoromethane  
Concen: 1.014 ppbv  
RT: 1.875 min Scan# 552  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_L

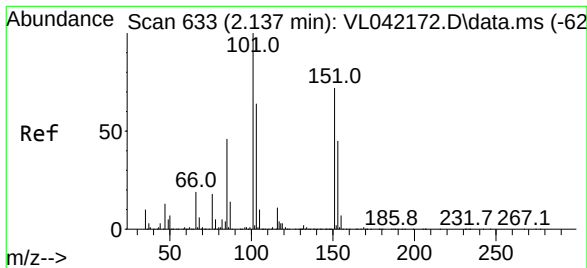
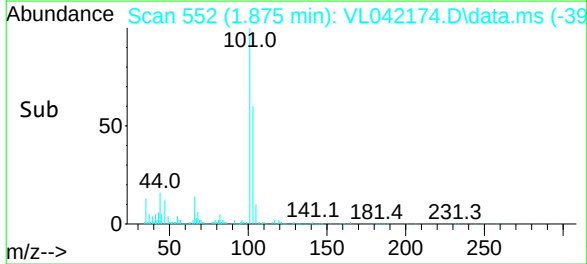
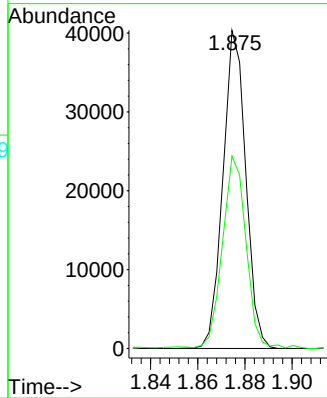
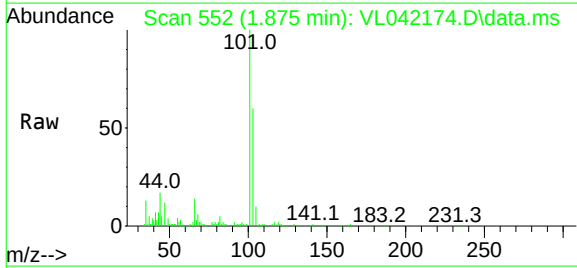
ClientSampleId :

VSTDICC001

Tgt Ion:101 Resp: 27136  
Ion Ratio Lower Upper  
101 100  
103 59.9 50.2 75.2

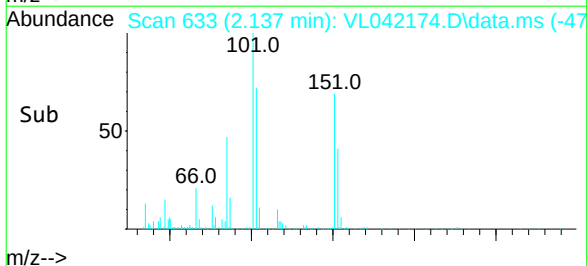
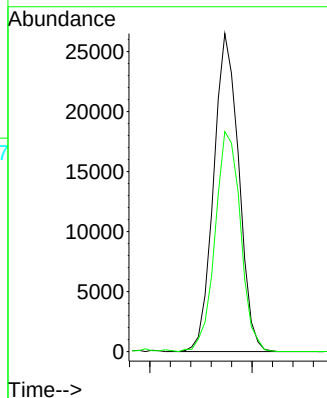
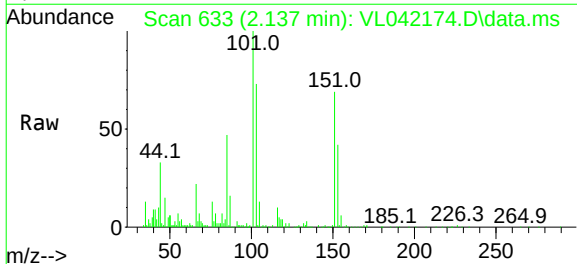
Manual Integrations  
APPROVED

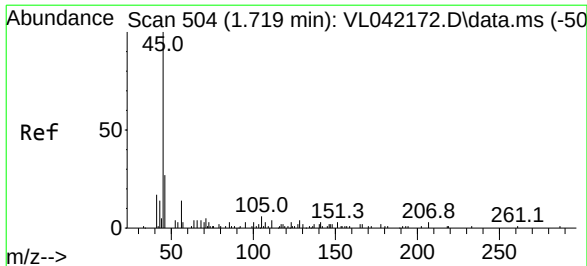
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.029 ppbv  
RT: 2.137 min Scan# 633  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion:101 Resp: 22629  
Ion Ratio Lower Upper  
101 100  
151 70.3 57.1 85.7





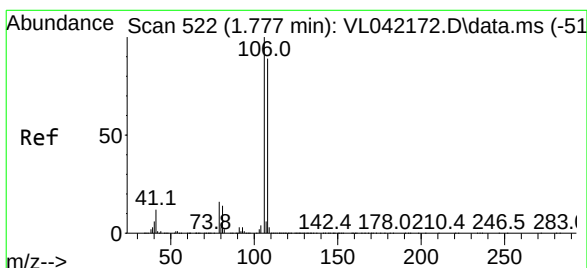
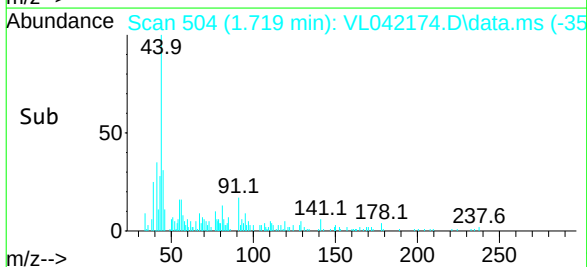
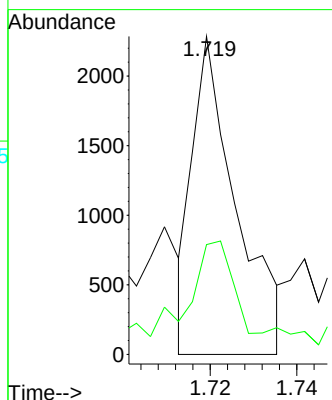
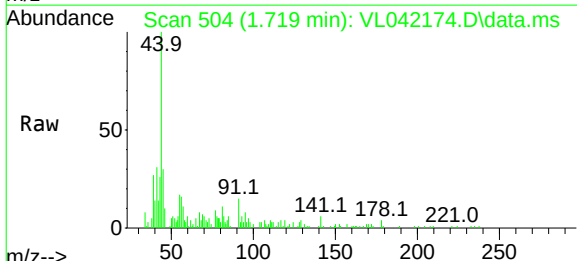
#13  
Ethanol  
Concen: 1.624 ppbv m  
RT: 1.719 min Scan# 504  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 45 Resp: 1610  
Ion Ratio Lower Upper  
45 100  
46 73.4 20.2 80.8

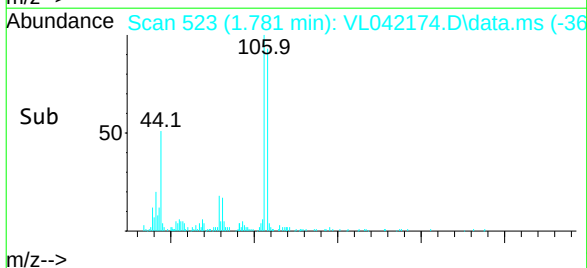
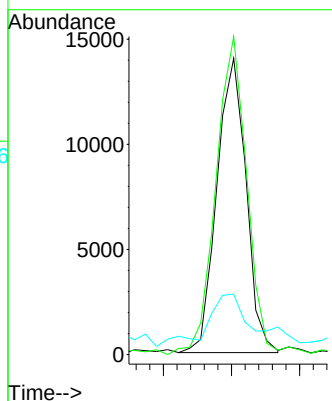
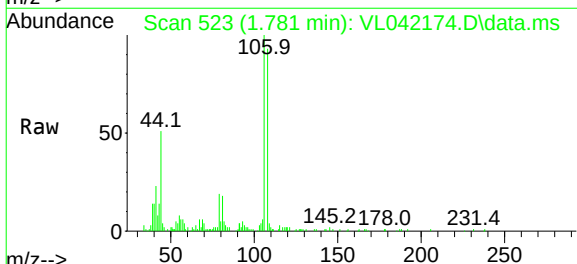
Manual Integrations  
APPROVED

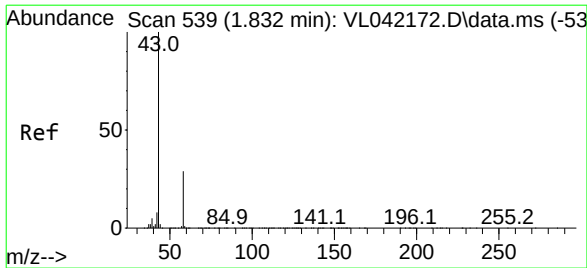
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#14  
Bromoethene  
Concen: 0.989 ppbv  
RT: 1.781 min Scan# 523  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion:108 Resp: 8330  
Ion Ratio Lower Upper  
108 100  
106 115.2 86.8 130.2  
79 57.0 15.0 22.6#





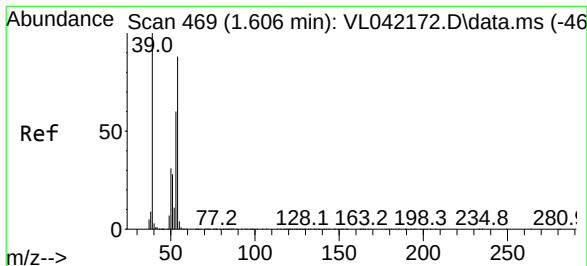
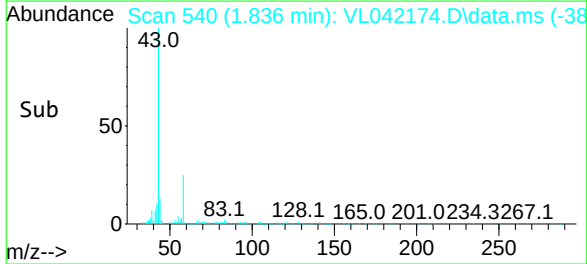
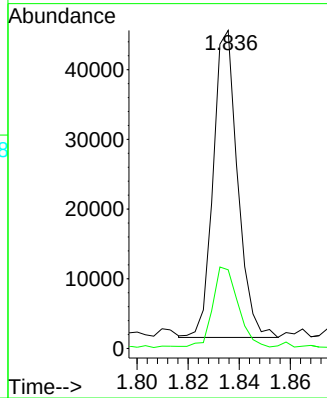
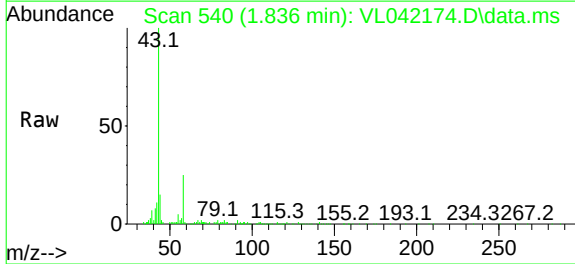
#15  
Acetone  
Concen: 1.125 ppbv  
RT: 1.836 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 43 Resp: 29294  
Ion Ratio Lower Upper  
43 100  
58 31.6 23.2 34.8

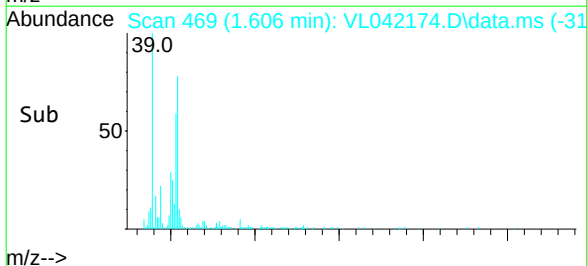
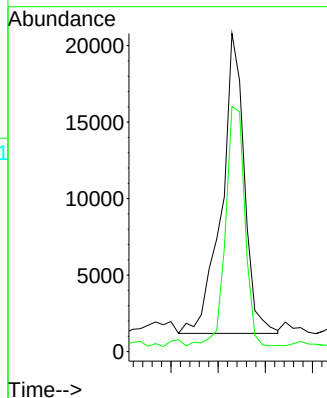
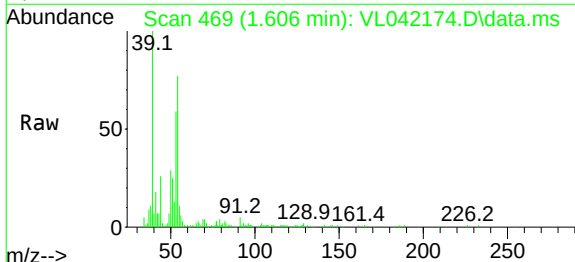
Manual Integrations  
APPROVED

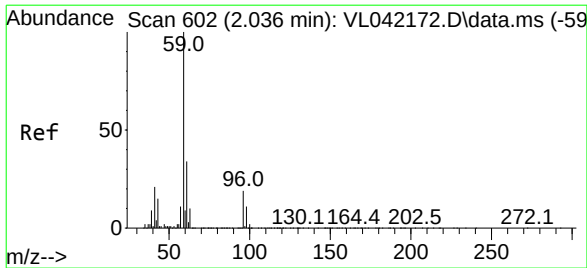
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#16  
1,3-Butadiene  
Concen: 1.121 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 39 Resp: 13133  
Ion Ratio Lower Upper  
39 100  
54 73.5 60.7 91.1





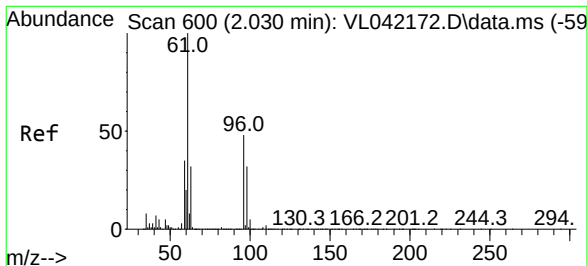
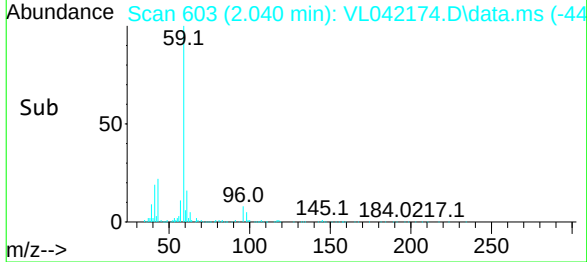
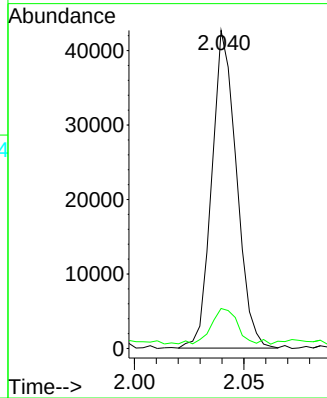
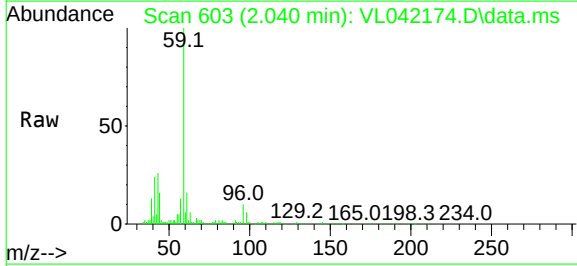
#17  
tert-Butyl alcohol  
Concen: 1.033 ppbv  
RT: 2.040 min Scan# 600  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 59 Resp: 33500  
Ion Ratio Lower Upper  
59 100  
57 12.3 8.9 13.3

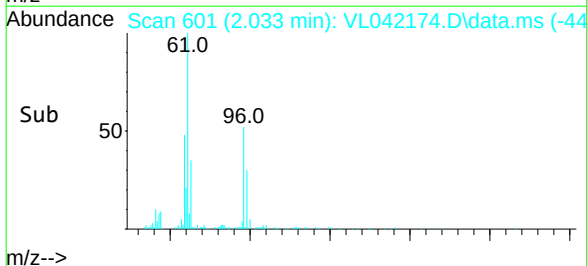
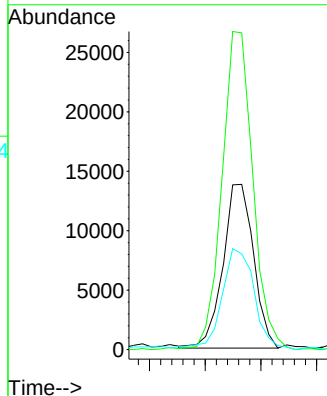
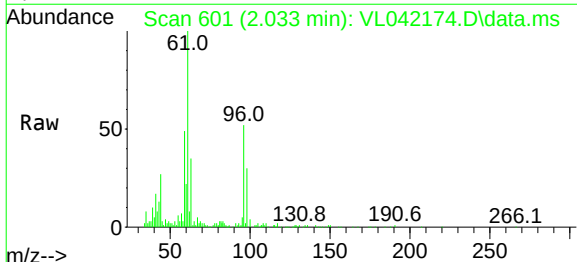
Manual Integrations  
APPROVED

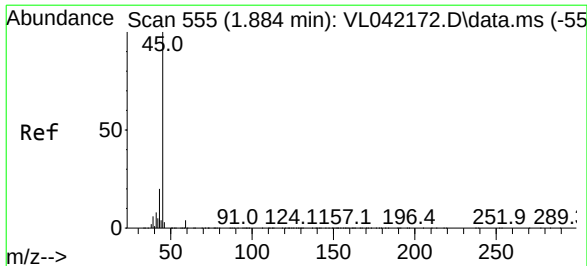
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#18  
1,1-Dichloroethene  
Concen: 1.024 ppbv  
RT: 2.033 min Scan# 601  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 96 Resp: 10532  
Ion Ratio Lower Upper  
96 100  
61 192.9 167.6 251.4  
98 56.7 53.5 80.3





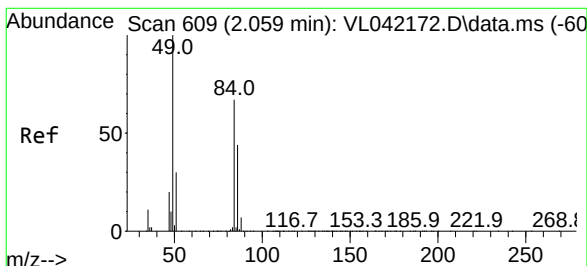
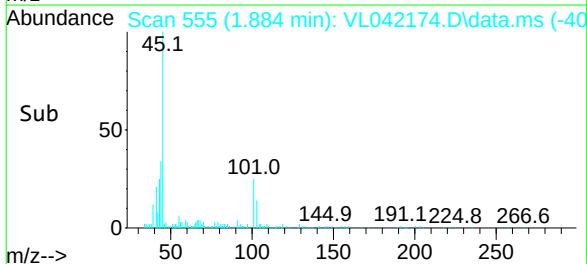
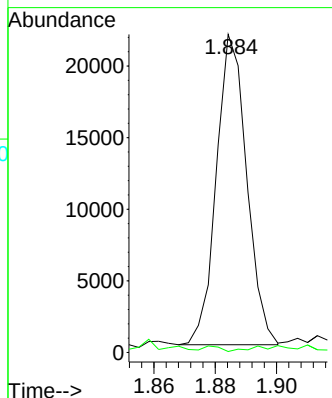
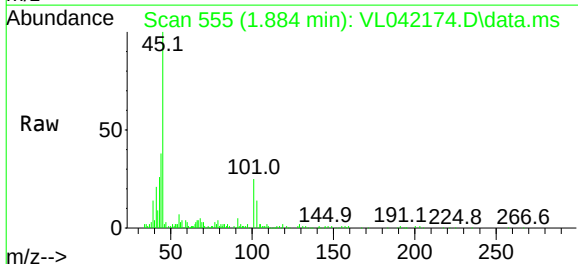
#19  
Isopropyl Alcohol  
Concen: 1.014 ppbv  
RT: 1.884 min Scan# 555  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 45 Resp: 14903  
Ion Ratio Lower Upper  
45 100  
58 4.9 36.9 55.3#

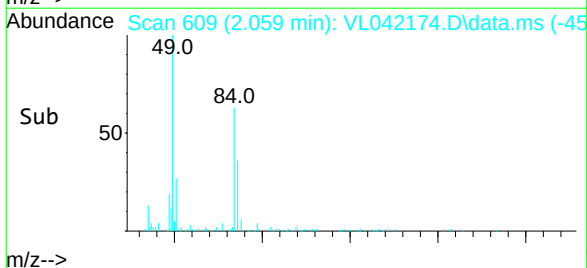
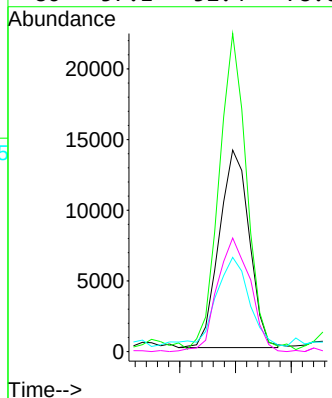
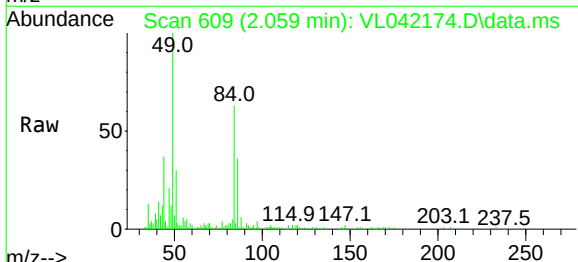
Manual Integrations  
APPROVED

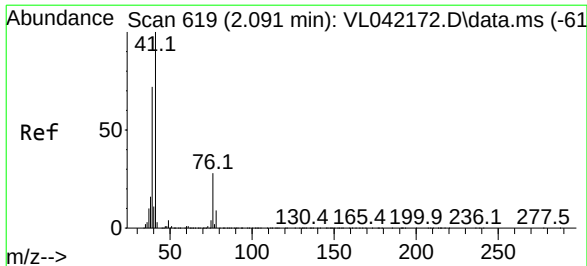
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#20  
Methylene Chloride  
Concen: 1.080 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 10481  
Ion Ratio Lower Upper  
84 100  
49 158.3 120.2 180.4  
51 44.3 37.4 56.0  
86 57.1 52.4 78.6





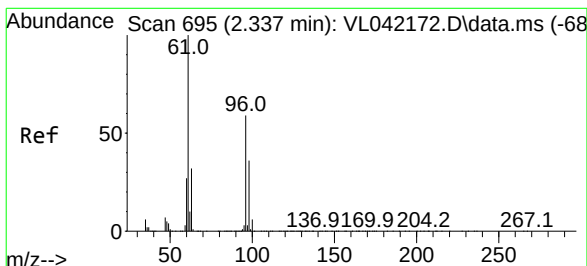
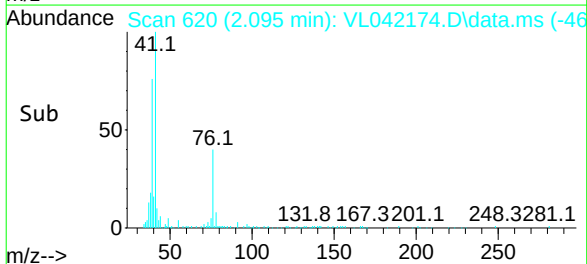
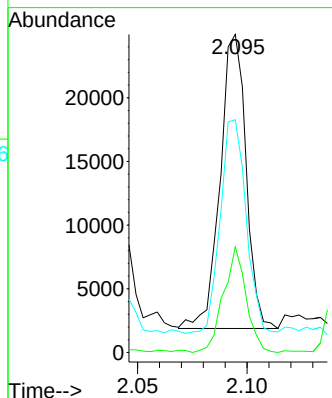
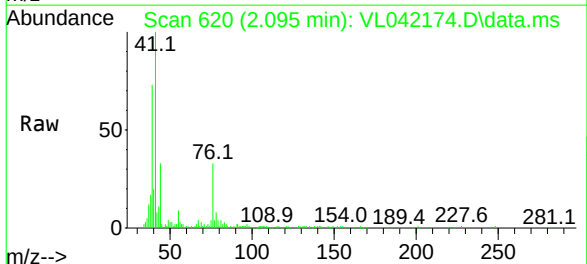
#21  
Allyl Chloride  
Concen: 1.036 ppbv  
RT: 2.095 min Scan# 621  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 19039 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 30.5  | 24.1  | 36.1  |
| 39       | 77.8  | 61.1  | 91.7  |

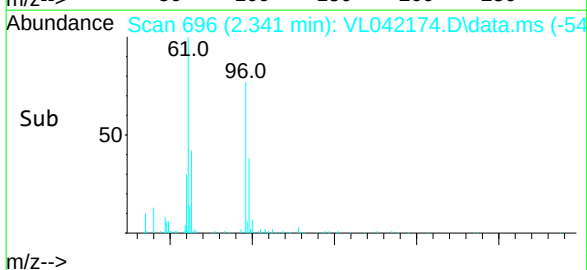
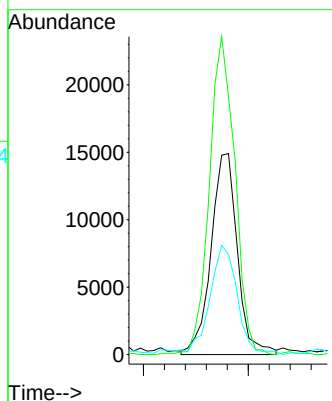
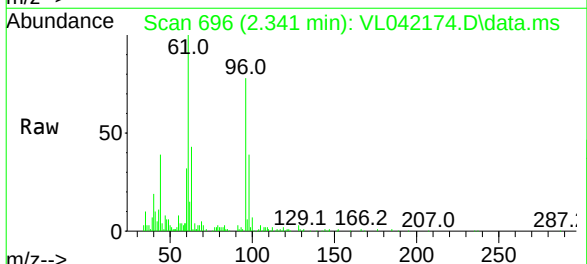
Manual Integrations  
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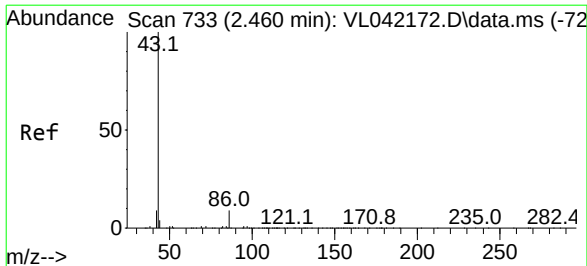
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#22  
trans-1,2-Dichloroethene  
Concen: 1.086 ppbv m  
RT: 2.341 min Scan# 696  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 13051  |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 128.3 | 136.6 | 204.8# |
| 98       | 49.9  | 49.4  | 74.2   |





#23  
 Vinyl Acetate  
 Concen: 1.190 ppbv m  
 RT: 2.464 min Scan# 733  
 Delta R.T. 0.003 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_L

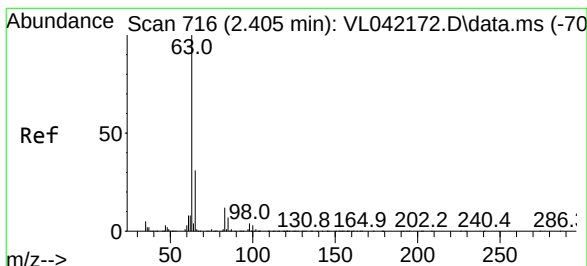
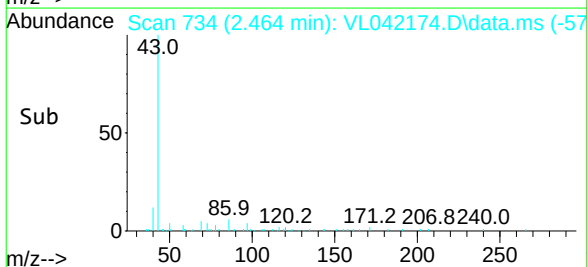
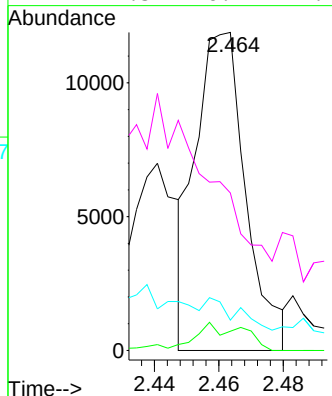
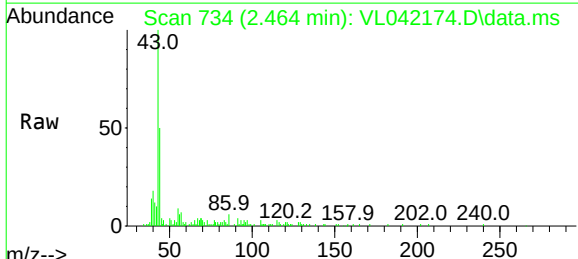
ClientSampleId :

VSTDICC001

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 12883 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 86 6.0      | 5.5 8.3     |
| 42 9.5      | 8.6 13.0    |
| 44 49.5     | 6.2 9.4#    |

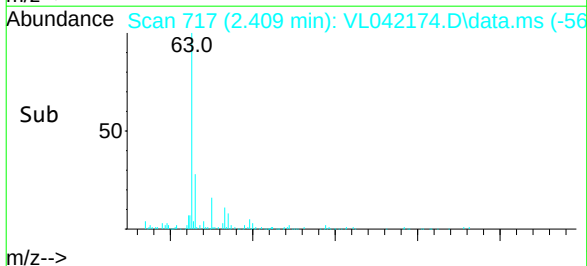
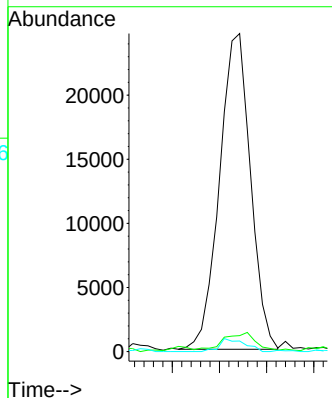
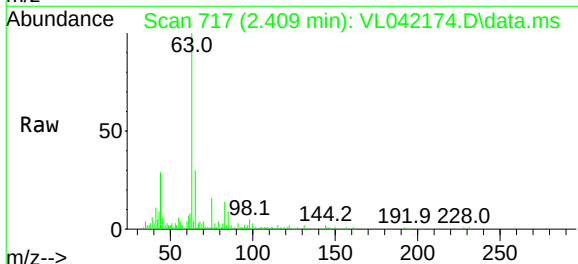
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

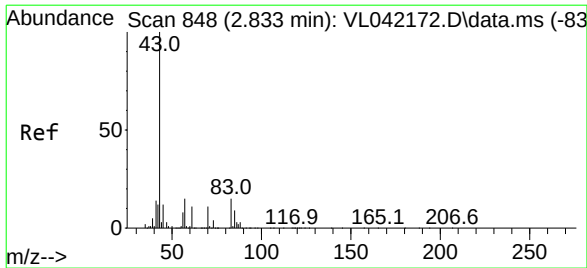


#24  
 1,1-Dichloroethane  
 Concen: 1.022 ppbv  
 RT: 2.409 min Scan# 717  
 Delta R.T. 0.003 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 22505 |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 98 4.6      | 2.3 6.8     |
| 100 3.4     | 1.6 4.7     |







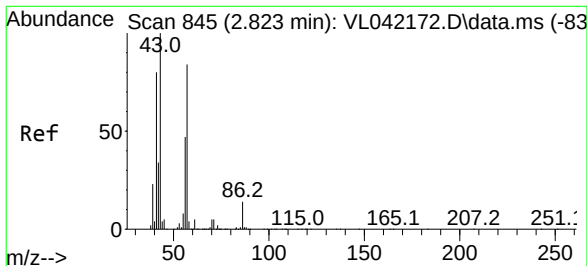
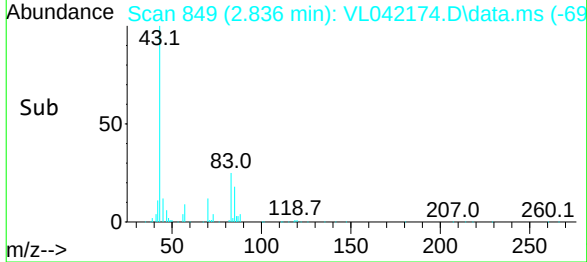
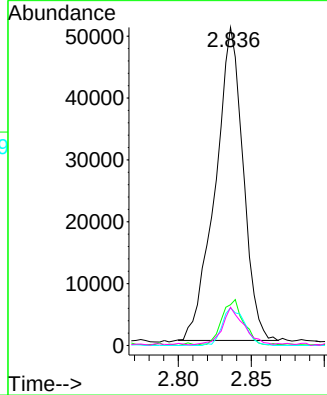
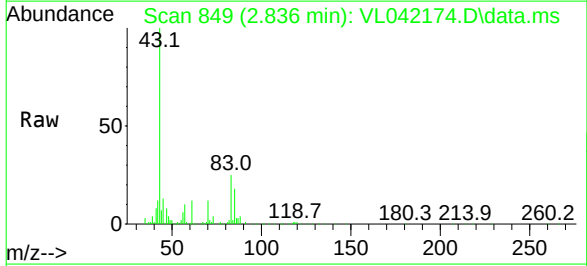
#25  
Ethyl Acetate  
Concen: 0.997 ppbv  
RT: 2.836 min Scan# 848  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 67402 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 12.3     | 8.2 12.2    |
| 61 9.6      | 7.3 10.9    |
| 70 10.3     | 7.2 10.8    |

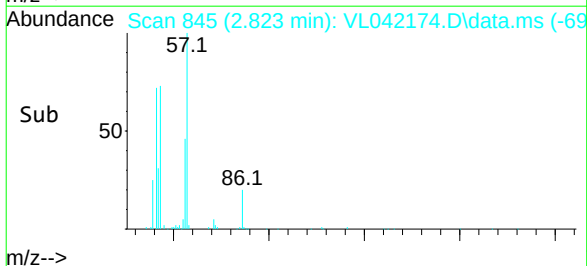
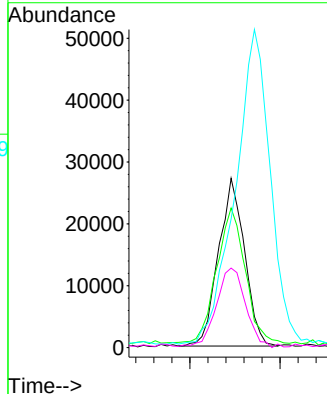
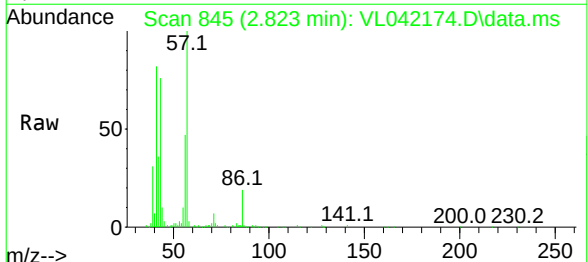
Manual Integrations  
APPROVED

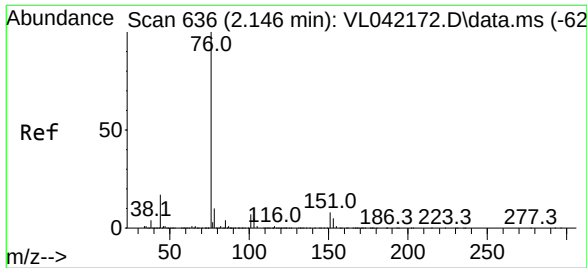
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#26  
Hexane  
Concen: 1.043 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

|             |             |
|-------------|-------------|
| Tgt Ion: 57 | Resp: 27223 |
| Ion Ratio   | Lower Upper |
| 57 100      |             |
| 41 93.5     | 76.6 114.8  |
| 43 256.9    | 207.8 311.8 |
| 56 53.3     | 43.6 65.4   |





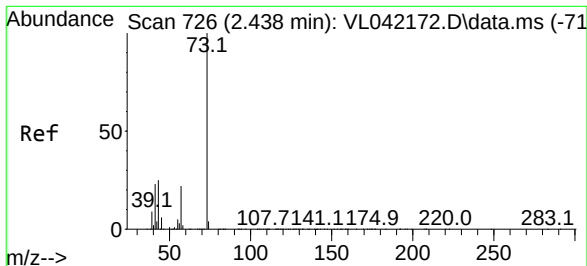
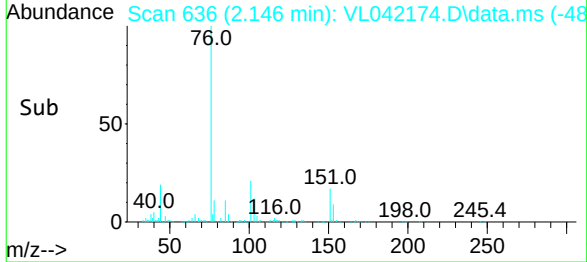
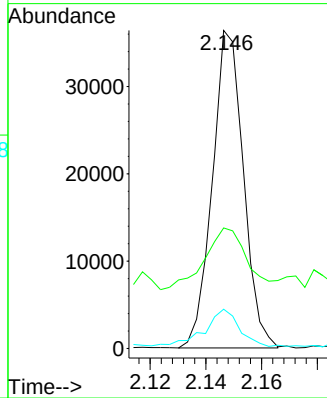
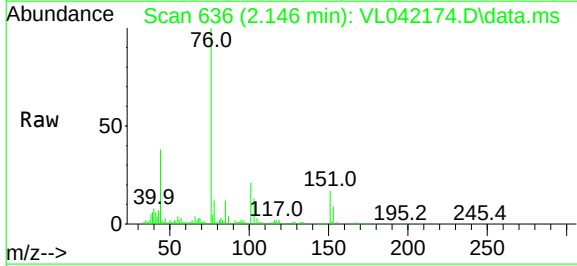
#27  
Carbon Disulfide  
Concen: 1.006 ppbv  
RT: 2.146 min Scan# 636  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 76 Resp: 28167  
Ion Ratio Lower Upper  
76 100  
44 54.6 14.7 22.1#  
78 15.0 9.3 13.9#

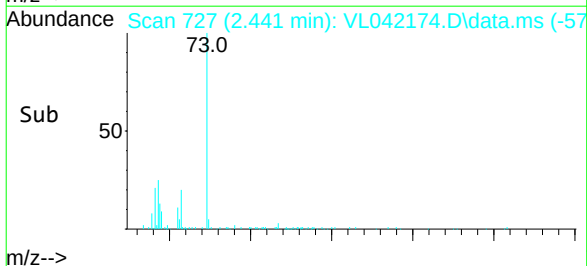
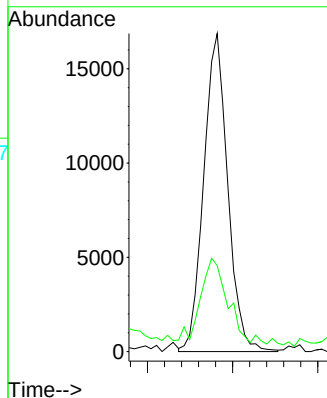
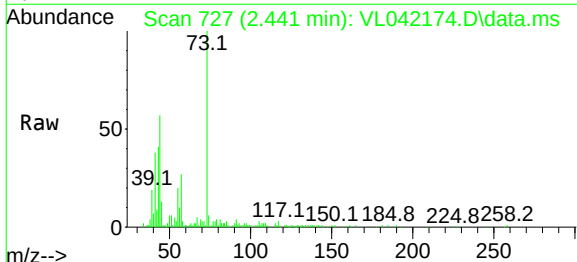
Manual Integrations  
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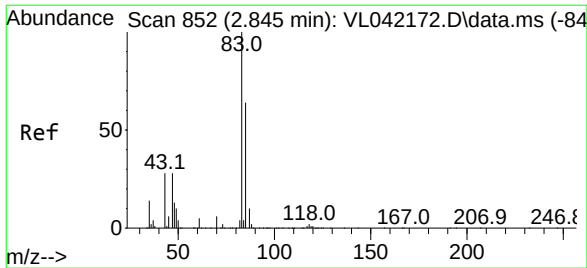
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#28  
Methyl tert-Butyl Ether  
Concen: 1.015 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 73 Resp: 16501  
Ion Ratio Lower Upper  
73 100  
57 28.0 20.5 30.7





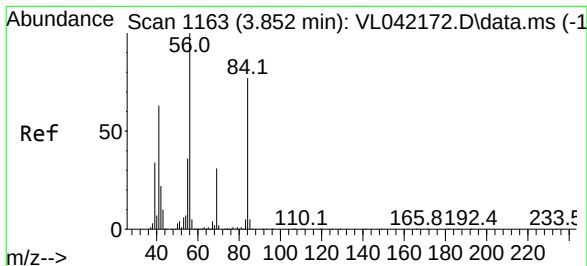
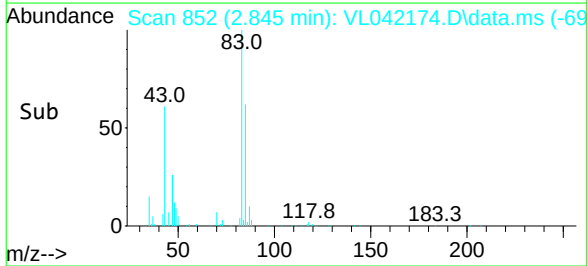
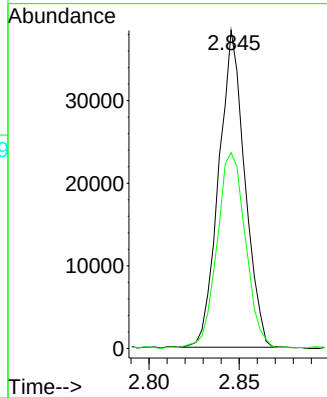
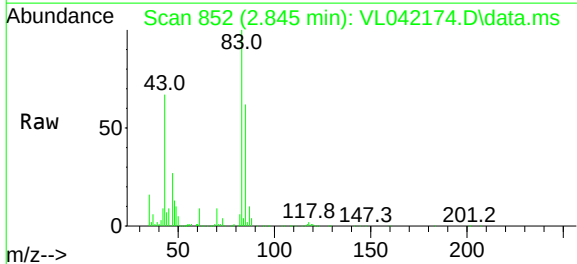
#29  
Chloroform  
Concen: 1.008 ppbv  
RT: 2.845 min Scan# 85  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 83 Resp: 38516  
Ion Ratio Lower Upper  
83 100  
85 61.6 51.4 77.2

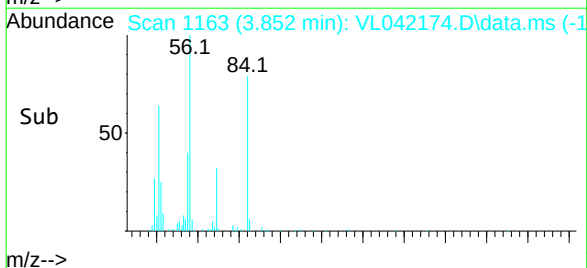
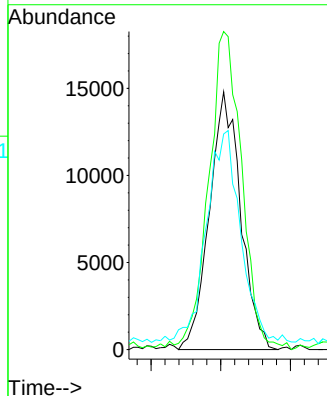
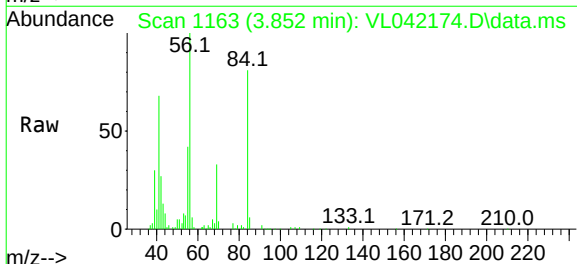
Manual Integrations  
APPROVED

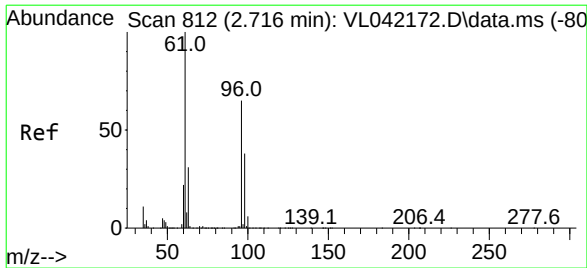
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#30  
Cyclohexane  
Concen: 1.016 ppbv  
RT: 3.852 min Scan# 1163  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

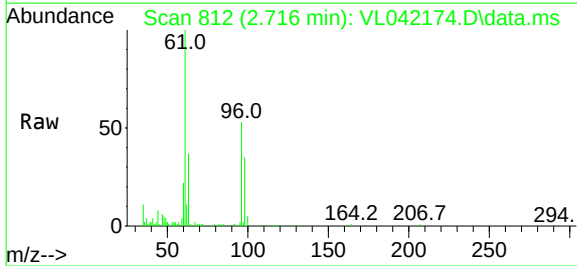
Tgt Ion: 84 Resp: 23052  
Ion Ratio Lower Upper  
84 100  
56 128.9 102.8 154.2  
41 89.3 66.5 99.7





#31  
 cis-1,2-Dichloroethene  
 Concen: 1.026 ppbv  
 RT: 2.716 min Scan# 812  
 Delta R.T. 0.000 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

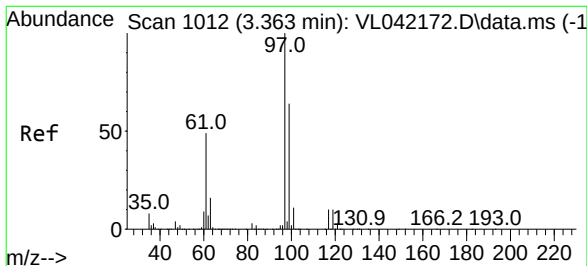
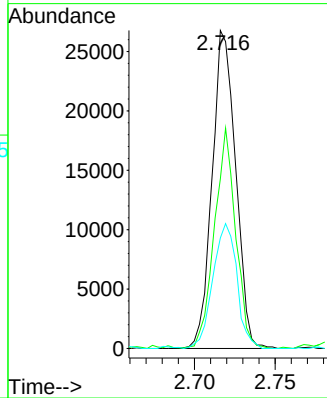
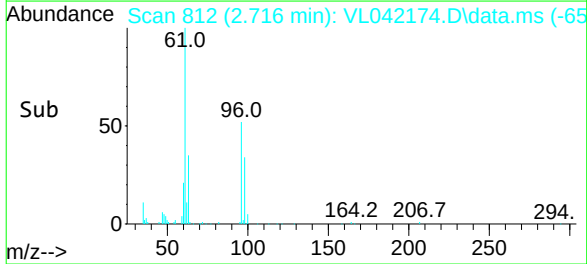
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



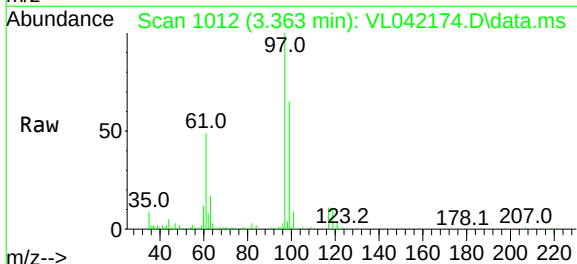
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 53.3  | 51.8  | 77.8  |
| 98      | 34.8  | 30.6  | 46.0  |

Manual Integrations  
 APPROVED

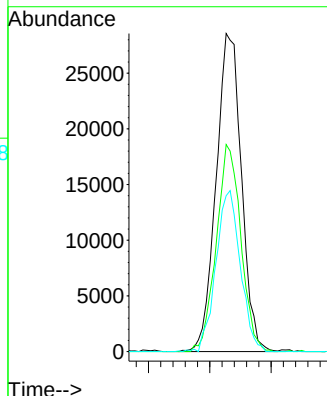
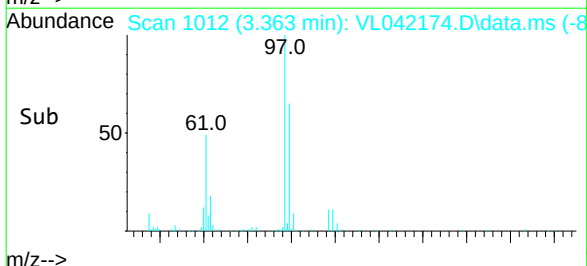
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

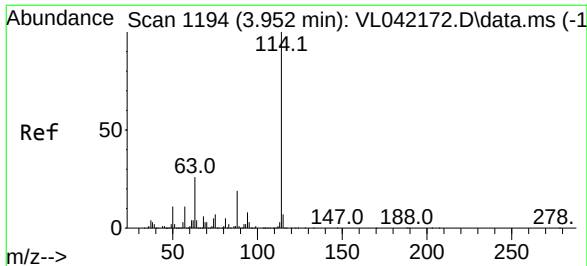


#32  
 1,1,1-Trichloroethane  
 Concen: 0.938 ppbv  
 RT: 3.363 min Scan# 1012  
 Delta R.T. 0.000 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30



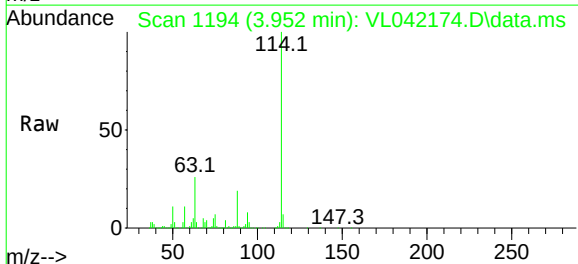
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 63.0  | 51.5  | 77.3  |
| 61      | 48.8  | 38.7  | 58.1  |





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.952 min Scan# 1194  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

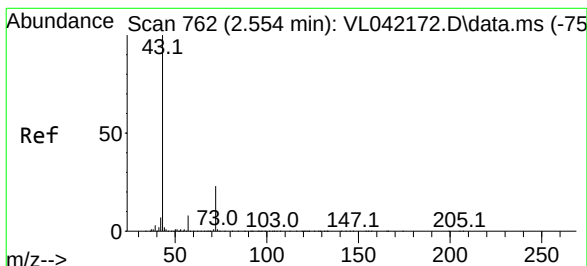
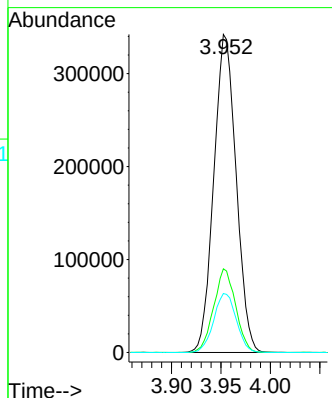
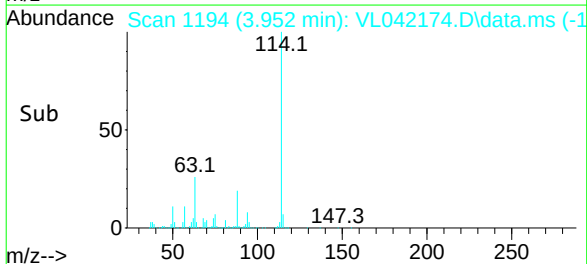
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



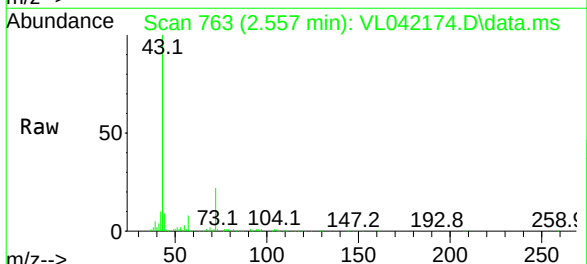
Tgt Ion: 114 Resp: 537244  
Ion Ratio Lower Upper  
114 100  
63 25.8 20.7 31.1  
88 18.8 15.0 22.4

Manual Integrations  
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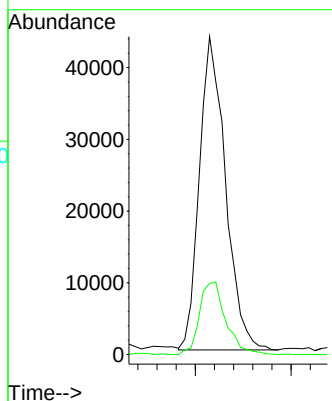
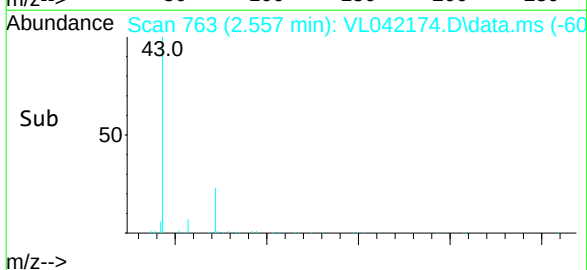
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

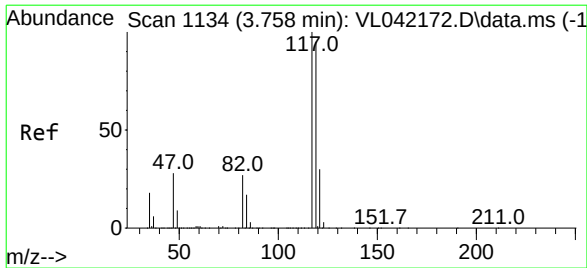


#34  
2-Butanone  
Concen: 1.063 ppbv  
RT: 2.557 min Scan# 763  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30



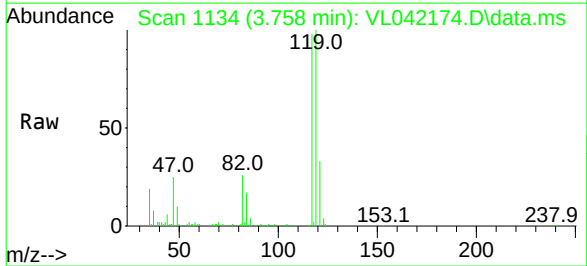
Tgt Ion: 43 Resp: 41423  
Ion Ratio Lower Upper  
43 100  
72 23.5 18.2 27.2





#35  
Carbon Tetrachloride  
Concen: 0.952 ppbv  
RT: 3.758 min Scan# 1134  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

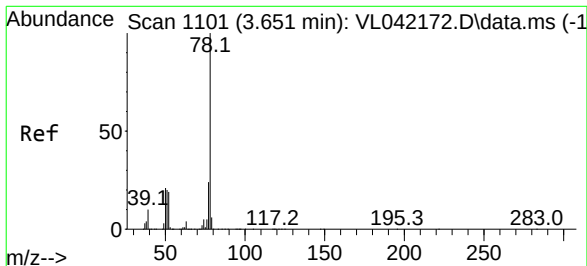
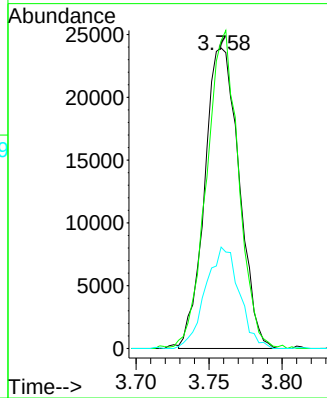
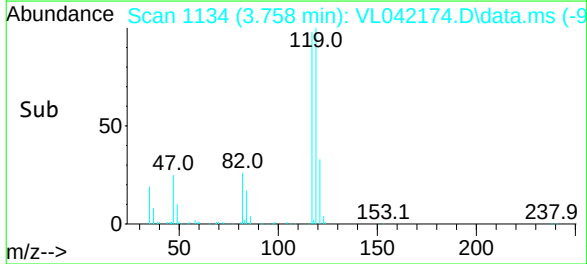
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



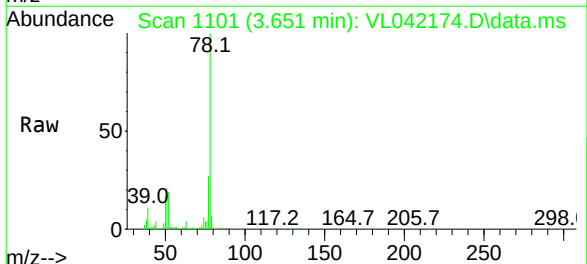
Tgt Ion: 117 Resp: 39345  
Ion Ratio Lower Upper  
117 100  
119 101.8 76.2 114.2  
121 33.7 24.2 36.4

Manual Integrations  
APPROVED

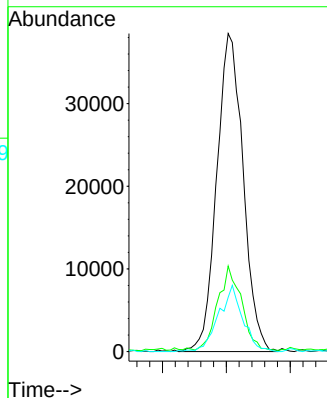
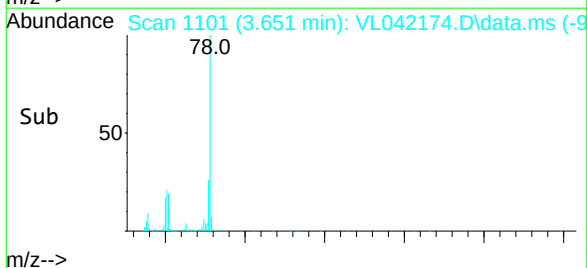
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

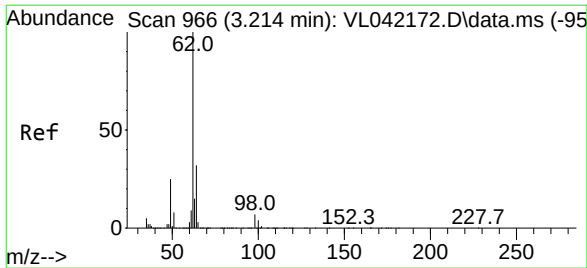


#36  
Benzene  
Concen: 1.036 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30



Tgt Ion: 78 Resp: 55156  
Ion Ratio Lower Upper  
78 100  
77 26.5 19.1 28.7  
50 17.1 16.6 24.8





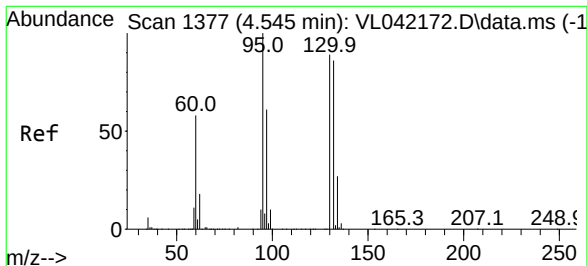
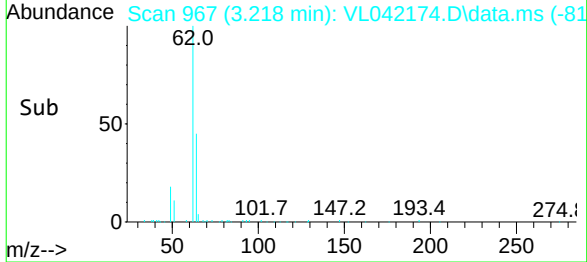
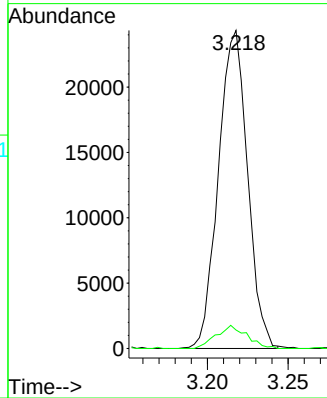
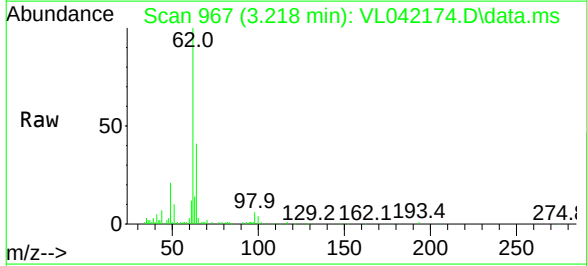
#37  
1,2-Dichloroethane  
Concen: 1.002 ppbv  
RT: 3.218 min Scan# 966  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 62 Resp: 30543  
Ion Ratio Lower Upper  
62 100  
98 7.6 5.4 8.2

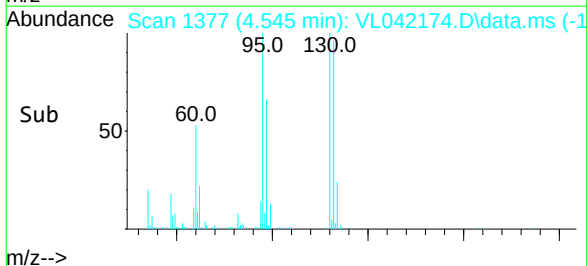
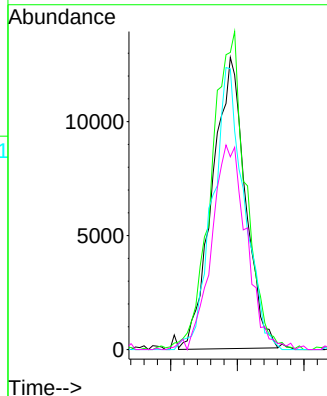
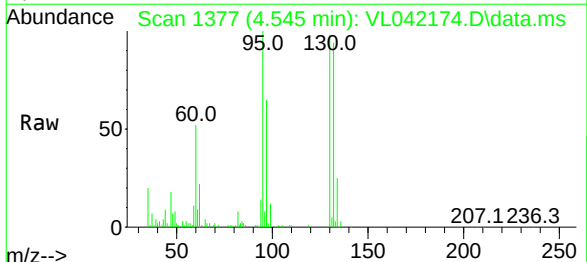
Manual Integrations  
APPROVED

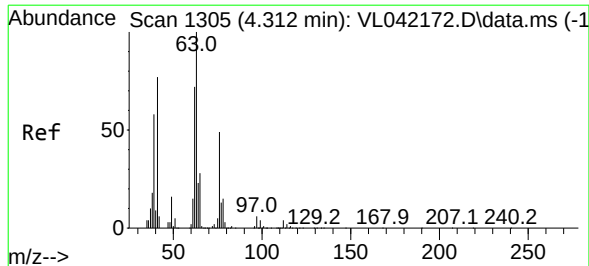
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#38  
Trichloroethene  
Concen: 0.985 ppbv  
RT: 4.545 min Scan# 1377  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

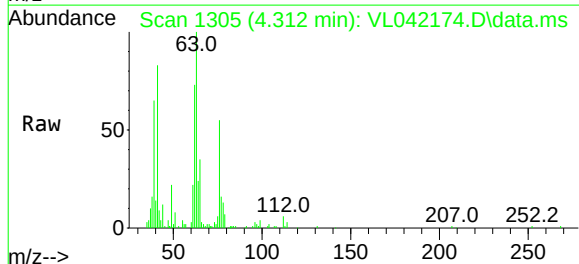
Tgt Ion:130 Resp: 21906  
Ion Ratio Lower Upper  
130 100  
95 100.2 89.8 134.8  
132 95.3 77.4 116.2  
97 64.3 55.1 82.7





#39  
1,2-Dichloropropane  
Concen: 1.032 ppbv  
RT: 4.312 min Scan# 1305  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

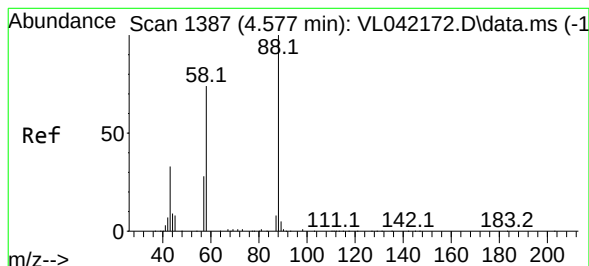
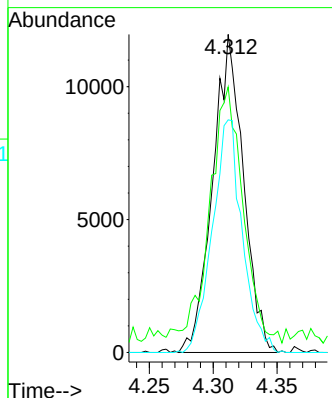
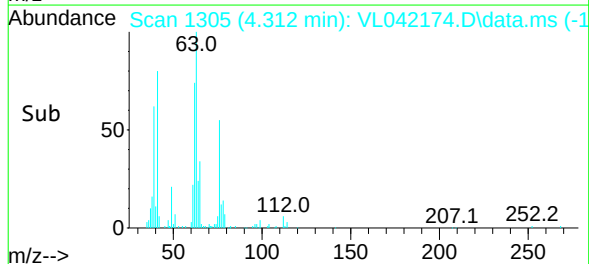
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



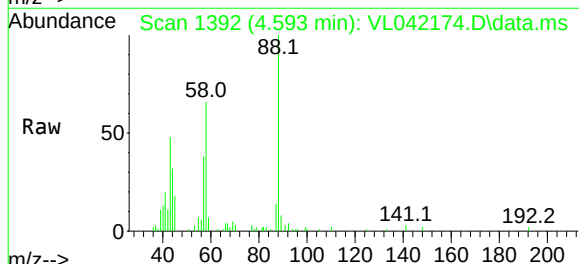
| Tgt Ion: | 63    | Resp: | 20020 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 41       | 76.8  | 61.7  | 92.5  |
| 62       | 73.1  | 57.6  | 86.4  |

Manual Integrations  
APPROVED

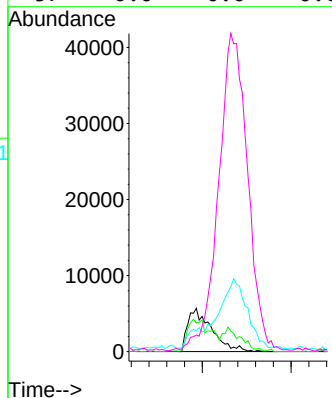
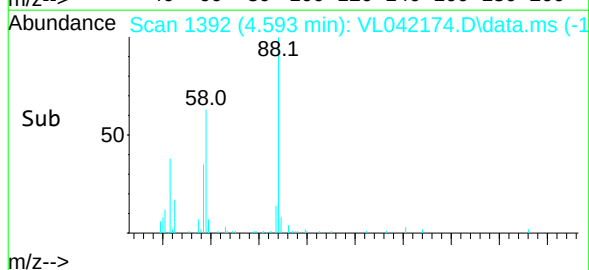
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



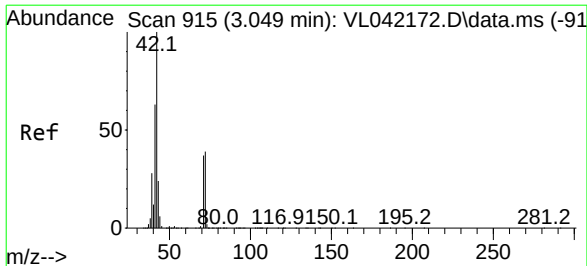
#40  
1,4-Dioxane  
Concen: 1.052 ppbv m  
RT: 4.593 min Scan# 1392  
Delta R.T. 0.016 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30



| Tgt Ion: | 88    | Resp: | 10592 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 115.3 | 62.7  | 94.1# |
| 43       | 0.0   | 23.0  | 34.4# |
| 57       | 0.0   | 0.0   | 0.0   |

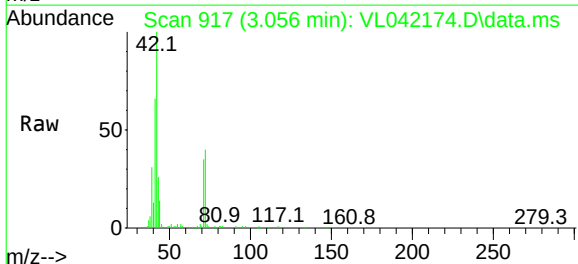






#41  
Tetrahydrofuran  
Concen: 1.029 ppbv  
RT: 3.056 min Scan# 91  
Delta R.T. 0.007 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

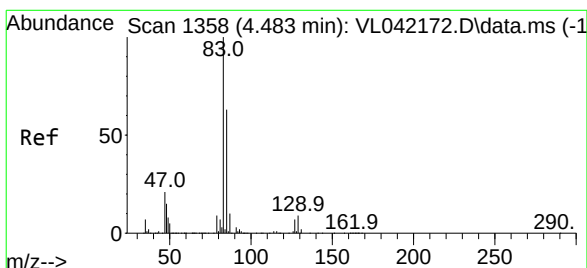
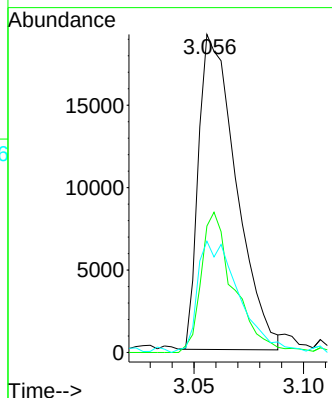
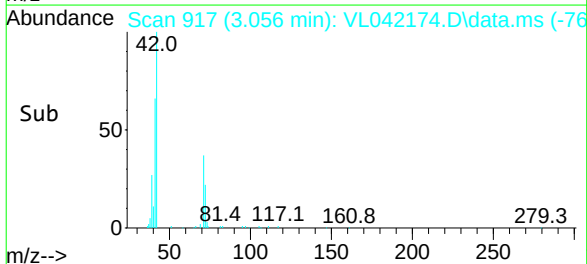
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion: 42 Resp: 22818  
Ion Ratio Lower Upper  
42 100  
72 39.4 31.4 47.0  
71 40.8 30.2 45.4

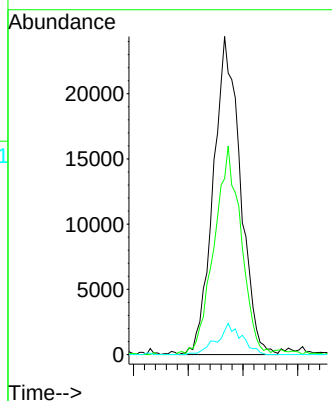
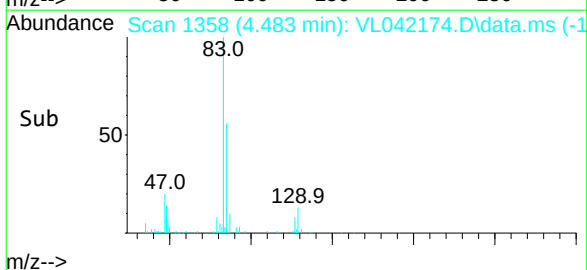
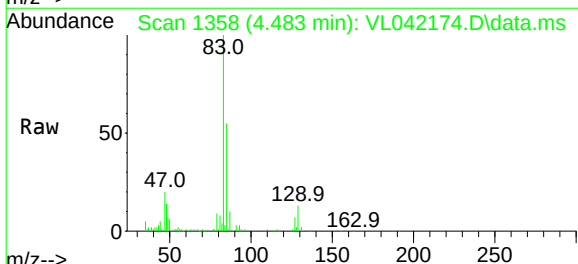
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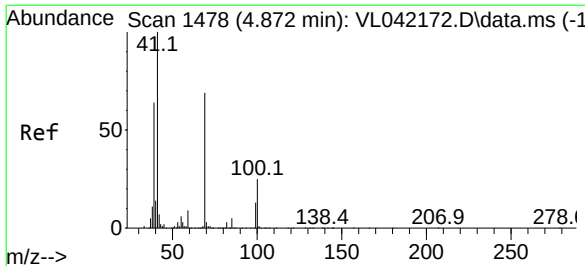
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#42  
Bromodichloromethane  
Concen: 0.996 ppbv  
RT: 4.483 min Scan# 1358  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 83 Resp: 41864  
Ion Ratio Lower Upper  
83 100  
85 54.7 50.5 75.7  
127 7.5 5.9 8.9





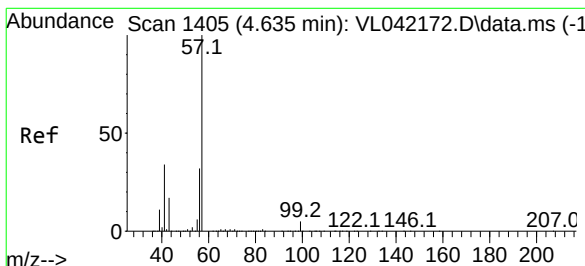
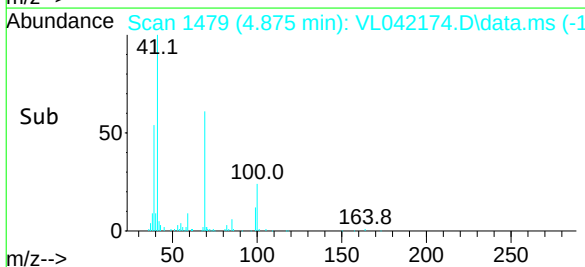
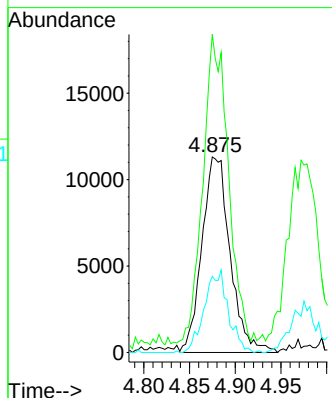
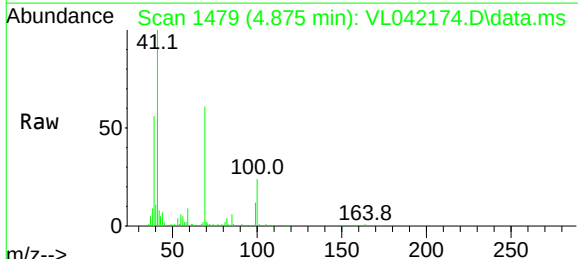
#43  
Methyl Methacrylate  
Concen: 1.078 ppbv m  
RT: 4.875 min Scan# 1478  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument : MSVOA\_L  
ClientSampleId : VSTDICC001

Tgt Ion: 69 Resp: 24233  
Ion Ratio Lower Upper  
69 100  
41 146.1 123.8 185.6  
100 0.0 28.4 42.6

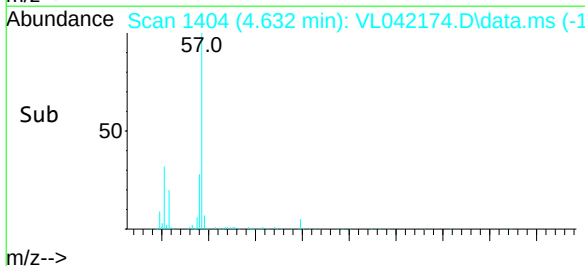
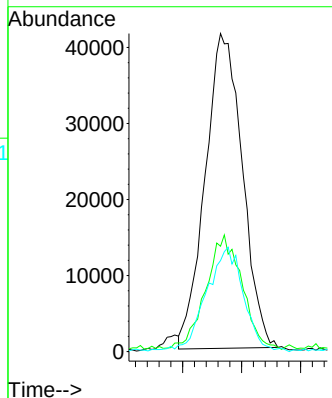
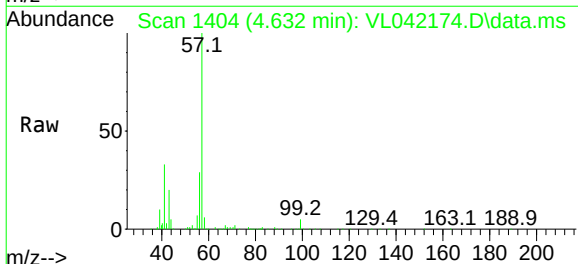
Manual Integrations  
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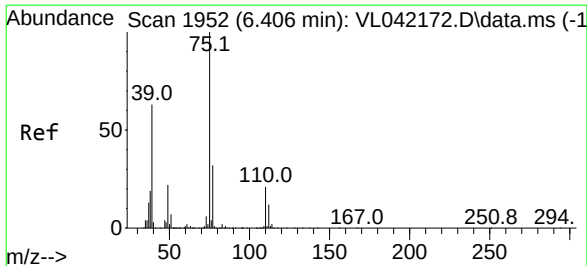
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#44  
2,2,4-Trimethylpentane  
Concen: 1.008 ppbv  
RT: 4.632 min Scan# 1404  
Delta R.T. -0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 57 Resp: 90727  
Ion Ratio Lower Upper  
57 100  
41 35.9 26.8 40.2  
56 33.7 25.6 38.4





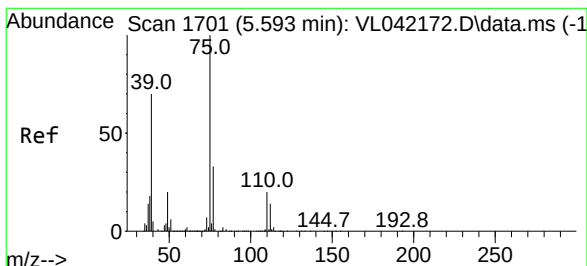
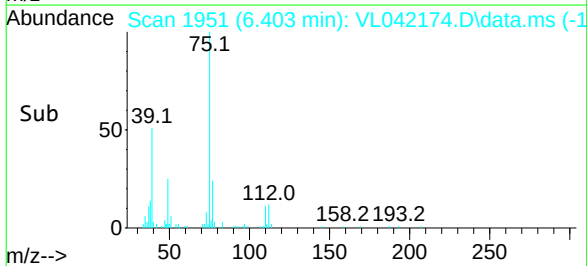
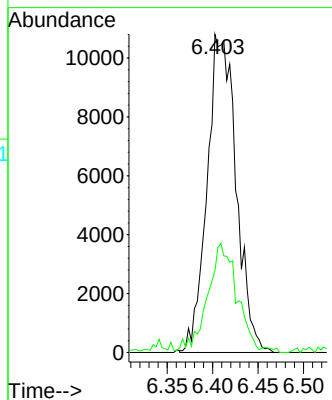
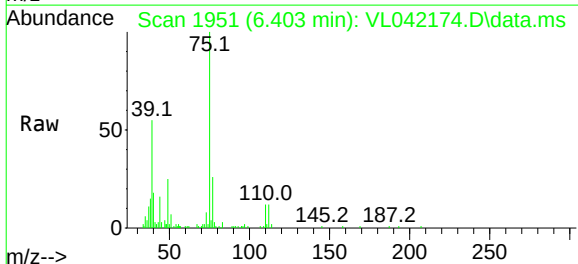
#45  
t-1,3-Dichloropropene  
Concen: 0.992 ppbv m  
RT: 6.403 min Scan# 1952  
Delta R.T. -0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 75 Resp: 23993  
Ion Ratio Lower Upper  
75 100  
77 25.9 26.0 39.0

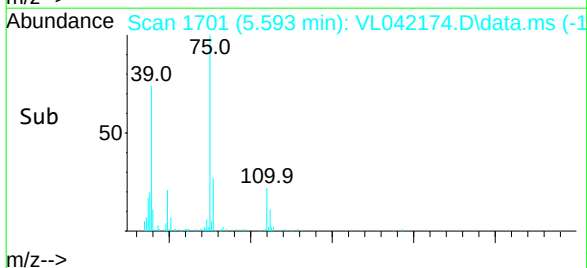
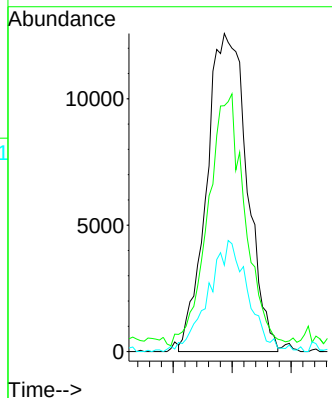
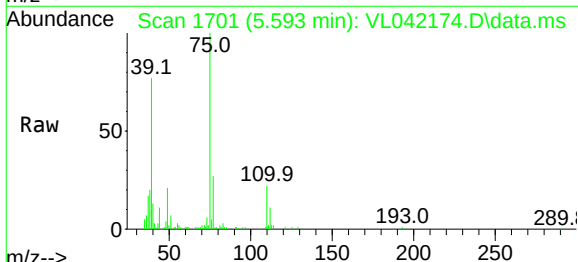
Manual Integrations  
APPROVED

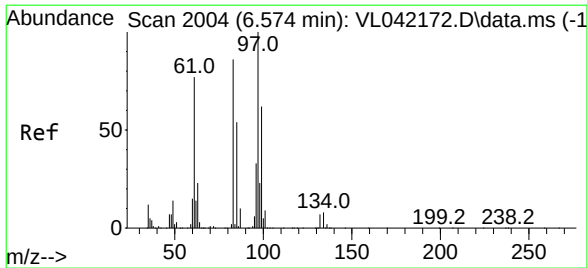
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#46  
cis-1,3-Dichloropropene  
Concen: 1.014 ppbv  
RT: 5.593 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 75 Resp: 30063  
Ion Ratio Lower Upper  
75 100  
39 74.2 55.8 83.6  
77 26.4 26.0 39.0





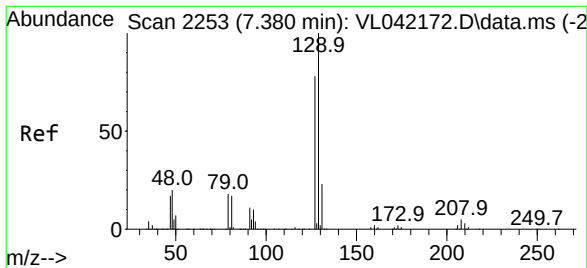
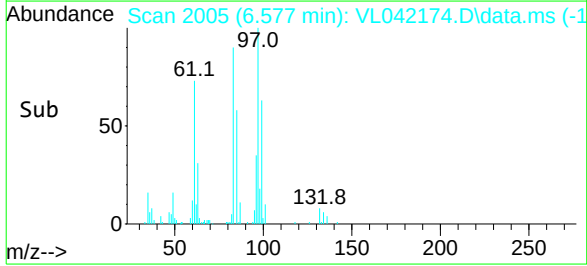
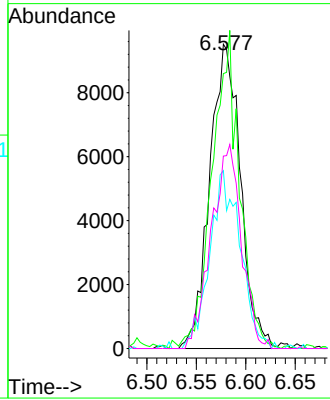
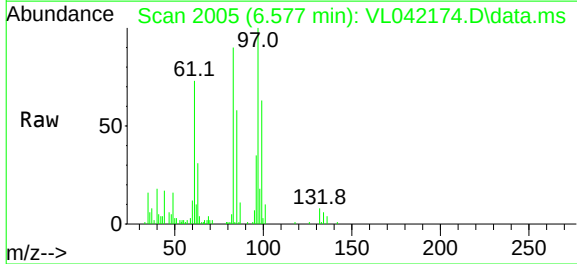
#47  
1,1,2-Trichloroethane  
Concen: 1.002 ppbv  
RT: 6.577 min Scan# 20  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 20546 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 89.7  | 69.2  | 103.8 |
| 85       | 58.4  | 43.1  | 64.7  |
| 99       | 63.2  | 49.4  | 74.2  |

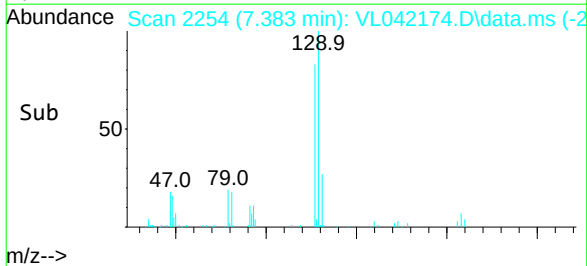
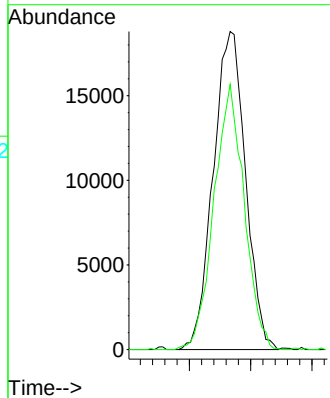
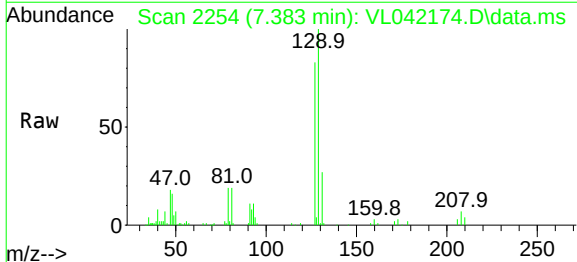
Manual Integrations  
APPROVED

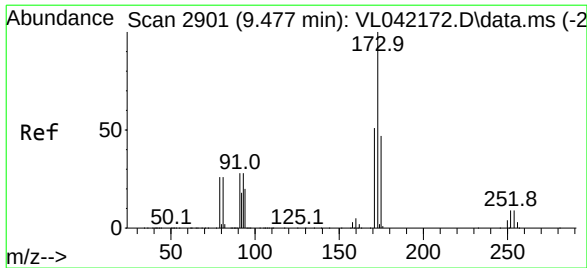
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#48  
Dibromochloromethane  
Concen: 0.991 ppbv  
RT: 7.383 min Scan# 2254  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 34425 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 78.1  | 39.1  | 117.2 |





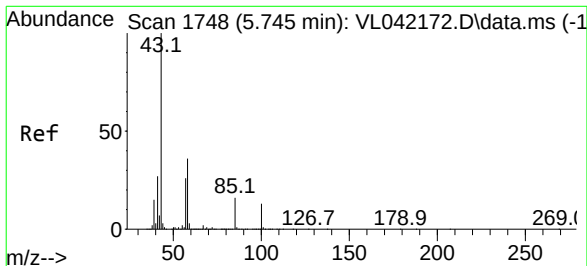
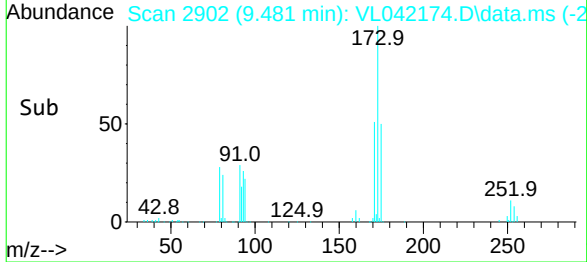
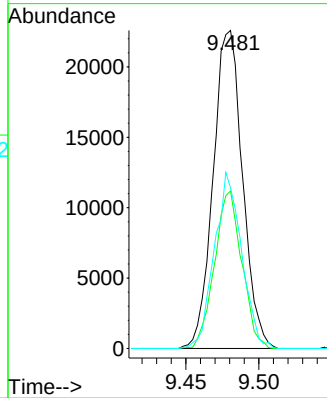
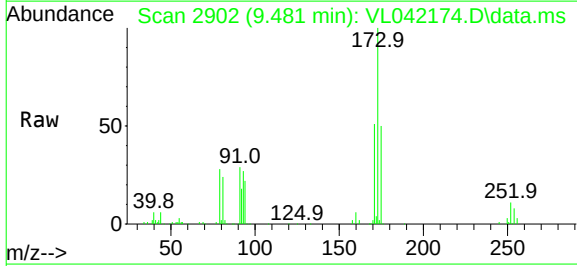
#49  
Bromoform  
Concen: 1.013 ppbv  
RT: 9.481 min Scan# 2901  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 173 Resp: 31610  
Ion Ratio Lower Upper  
173 100  
175 46.1 38.6 57.8  
171 51.3 41.8 62.6

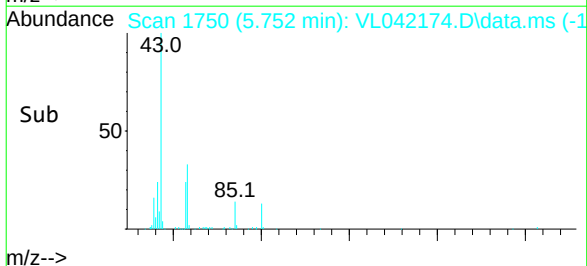
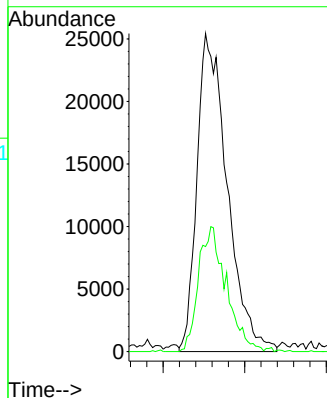
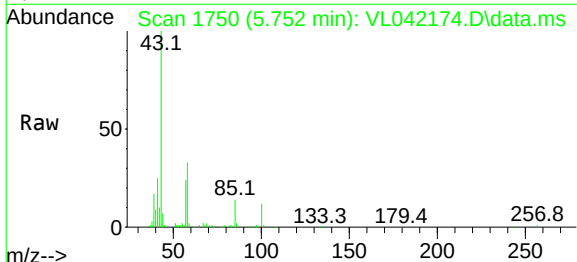
Manual Integrations  
APPROVED

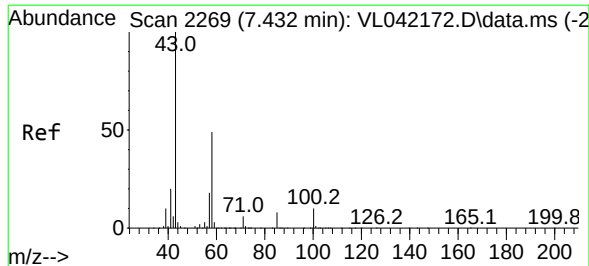
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025



#50  
4-Methyl-2-Pentanone  
Concen: 1.056 ppbv m  
RT: 5.752 min Scan# 1750  
Delta R.T. 0.007 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

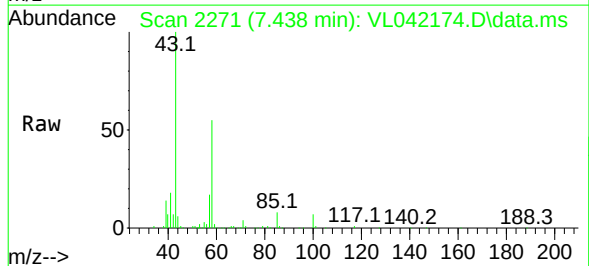
Tgt Ion: 43 Resp: 65226  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.0 43.6#





#51  
2-Hexanone  
Concen: 1.067 ppbv  
RT: 7.438 min Scan# 2269  
Delta R.T. 0.007 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

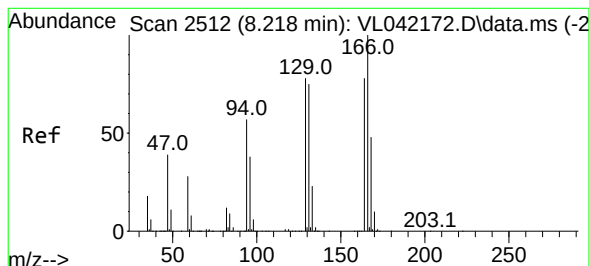
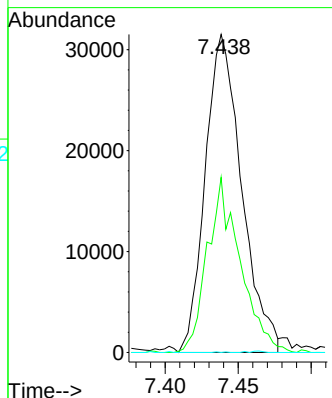
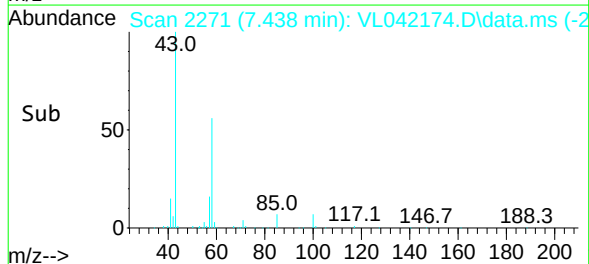
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC001



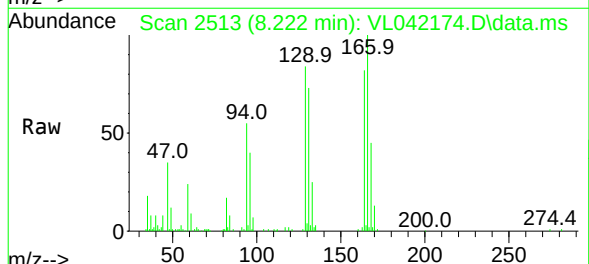
Tgt Ion: 43 Resp: 54680  
Ion Ratio Lower Upper  
43 100  
58 49.8 39.7 59.5  
98 0.2 0.1 0.1

Manual Integrations  
APPROVED

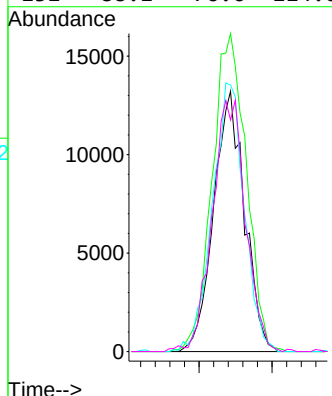
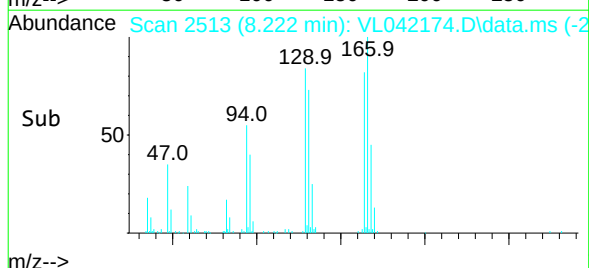
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

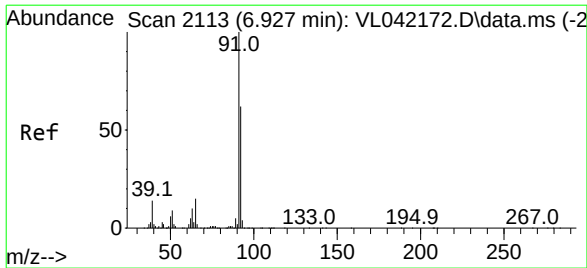


#52  
Tetrachloroethene  
Concen: 0.919 ppbv  
RT: 8.222 min Scan# 2513  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30



Tgt Ion:164 Resp: 19415  
Ion Ratio Lower Upper  
164 100  
166 121.4 102.5 153.7  
129 102.4 79.8 119.8  
131 88.1 76.6 114.8





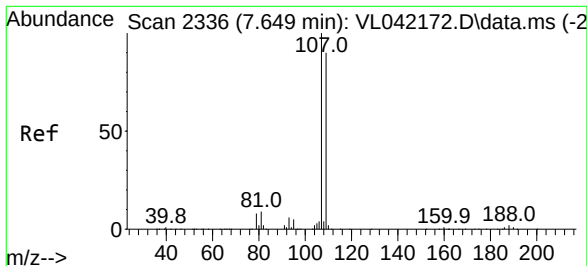
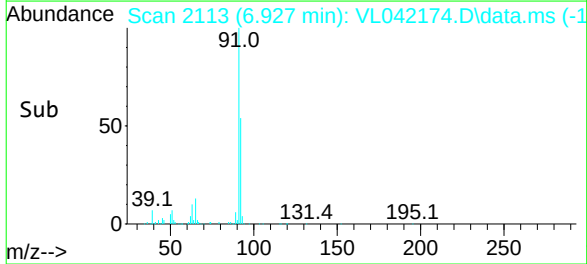
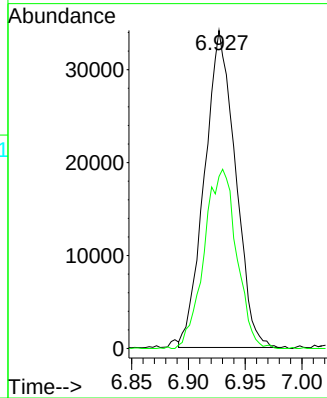
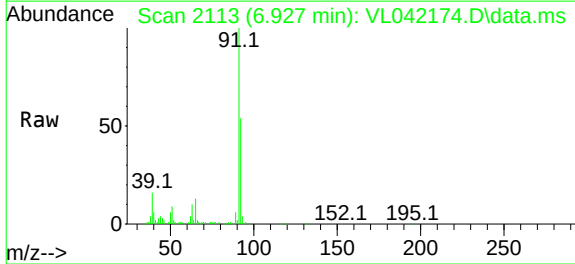
#53  
Toluene  
Concen: 1.023 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 91 Resp: 64612  
Ion Ratio Lower Upper  
91 100  
92 59.4 48.4 72.6

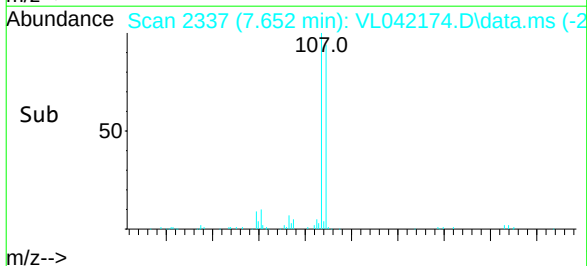
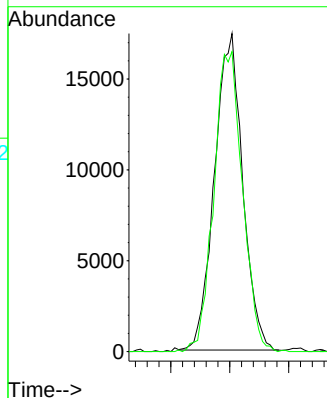
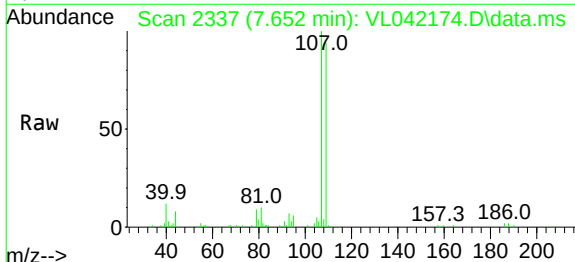
Manual Integrations  
APPROVED

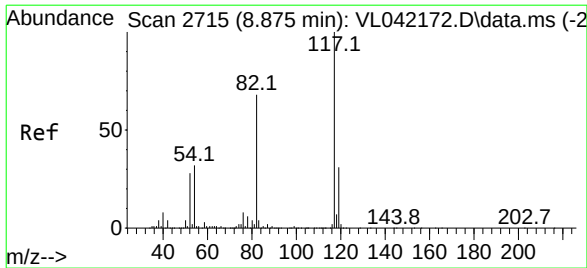
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#54  
1,2-Dibromoethane  
Concen: 1.009 ppbv  
RT: 7.652 min Scan# 2337  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion:107 Resp: 28879  
Ion Ratio Lower Upper  
107 100  
109 94.8 72.2 108.4





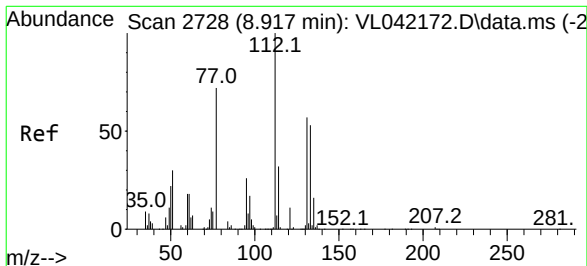
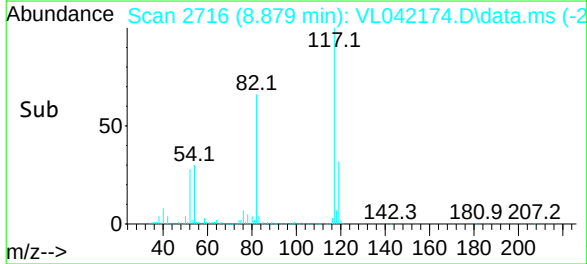
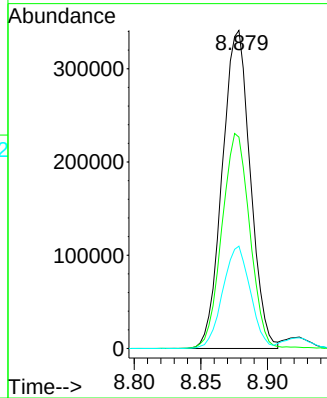
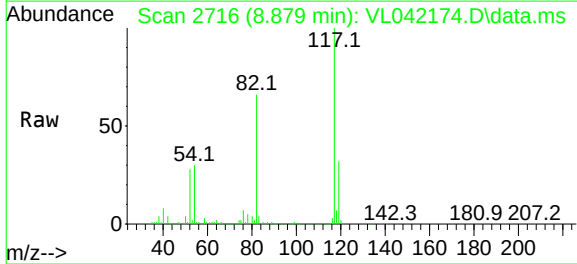
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.879 min Scan# 2715  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion:117 Resp: 499836  
Ion Ratio Lower Upper  
117 100  
82 67.6 55.8 83.6  
119 32.2 25.5 38.3

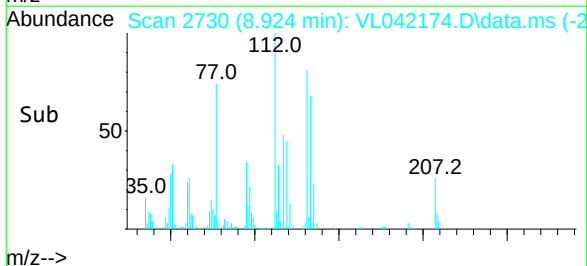
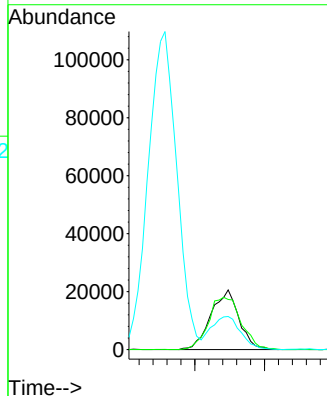
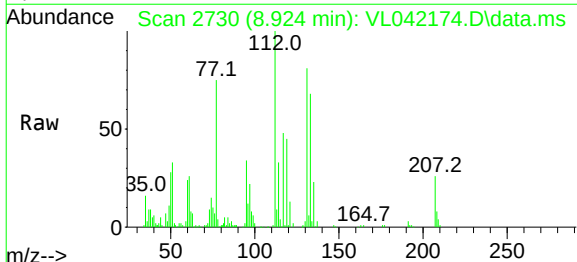
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

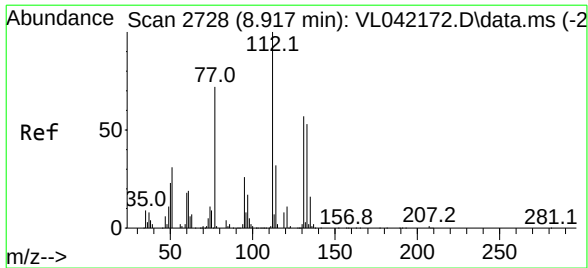


#56  
1,1,1,2-Tetrachloroethane  
Concen: 1.045 ppbv  
RT: 8.924 min Scan# 2730  
Delta R.T. 0.007 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion:131 Resp: 28764  
Ion Ratio Lower Upper  
131 100  
133 101.7 76.6 114.8  
119 44.1 49.8 74.6#

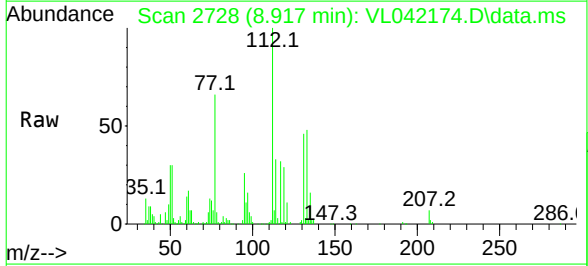






#57  
Chlorobenzene  
Concen: 1.032 ppbv  
RT: 8.917 min Scan# 2728  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

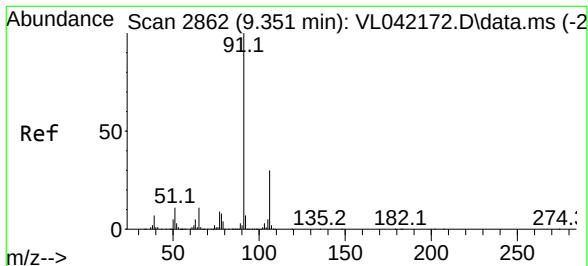
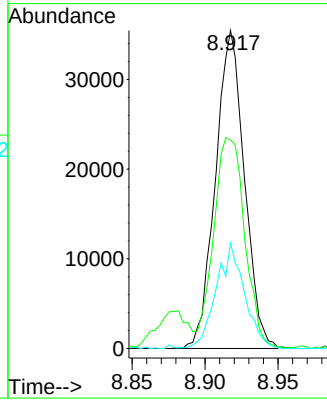
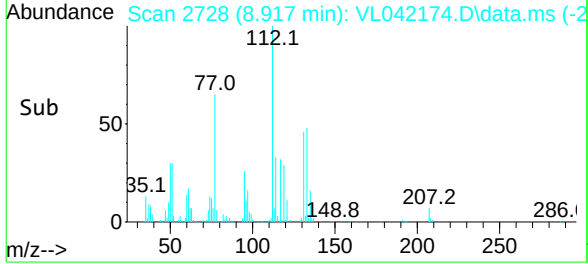
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion: 112 Resp: 48936  
Ion Ratio Lower Upper  
112 100  
77 65.0 58.2 87.2  
114 32.9 29.1 35.5

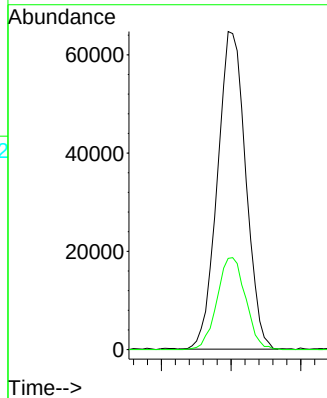
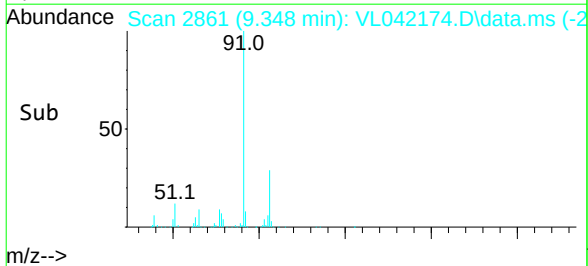
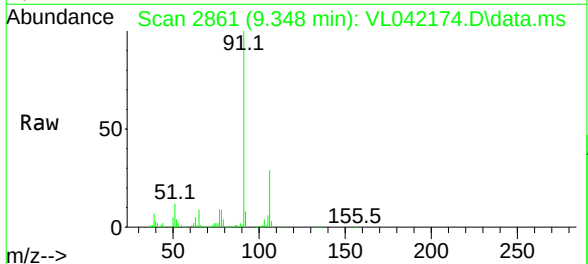
Manual Integrations  
APPROVED

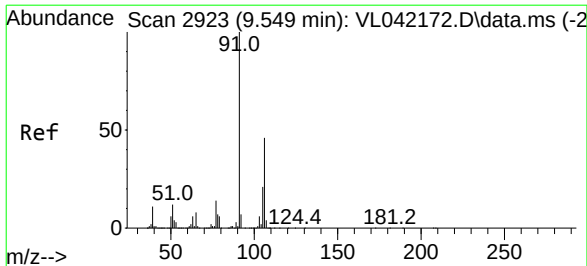
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#58  
Ethyl Benzene  
Concen: 1.026 ppbv  
RT: 9.348 min Scan# 2861  
Delta R.T. -0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 91086  
Ion Ratio Lower Upper  
91 100  
106 28.7 24.2 36.2





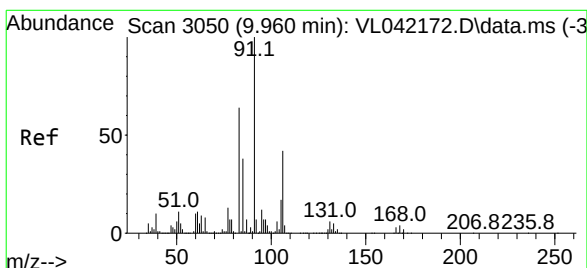
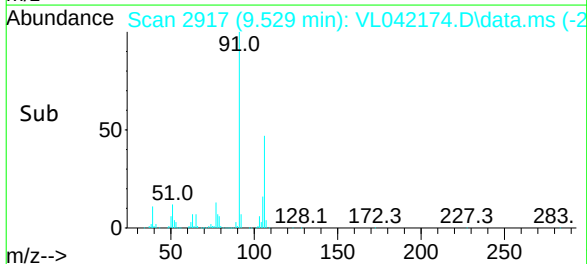
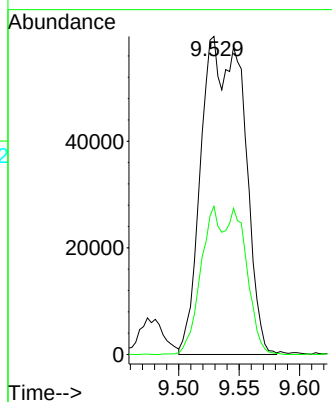
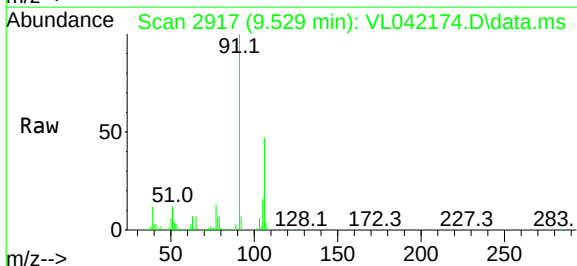
#59  
m/p-Xylene  
Concen: 2.073 ppbv m  
RT: 9.529 min Scan# 2917  
Delta R.T. -0.019 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 91 Resp: 147162  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.4 54.6#

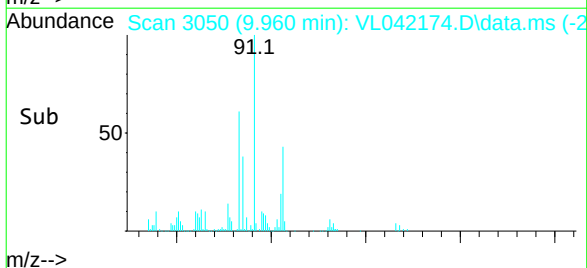
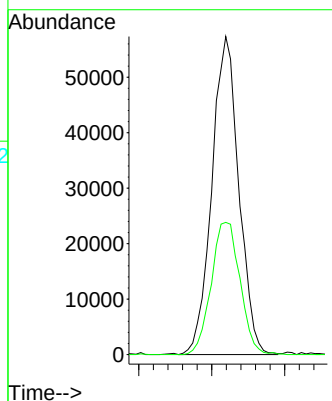
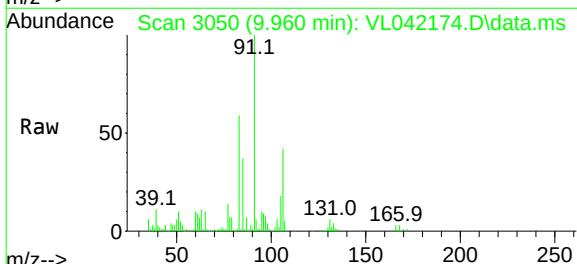
Manual Integrations  
APPROVED

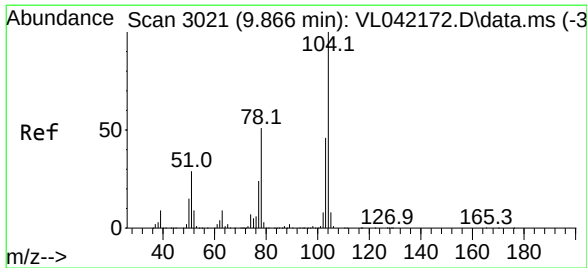
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#60  
o-Xylene  
Concen: 1.037 ppbv  
RT: 9.960 min Scan# 3050  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

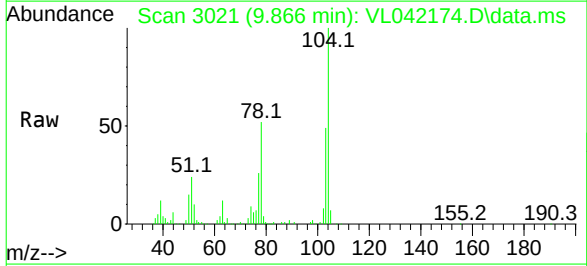
Tgt Ion: 91 Resp: 73702  
Ion Ratio Lower Upper  
91 100  
106 44.3 20.8 62.5





#61  
Styrene  
Concen: 1.027 ppbv  
RT: 9.866 min Scan# 3021  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

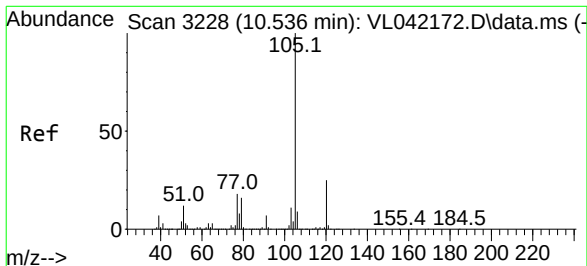
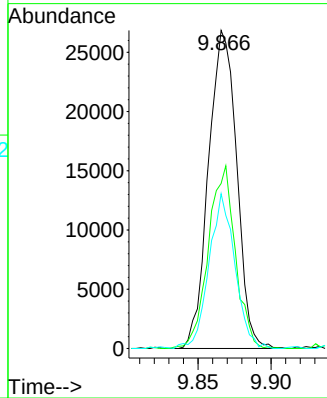
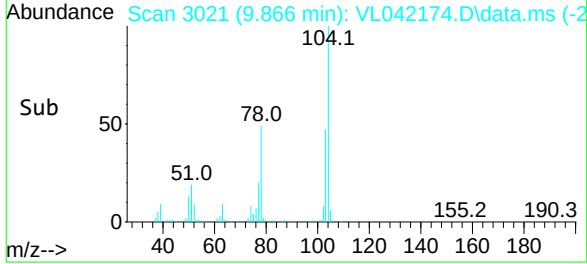
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



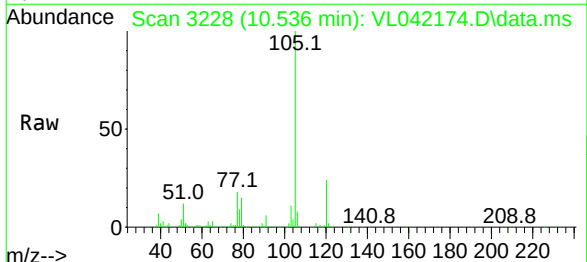
Tgt Ion:104 Resp: 36110  
Ion Ratio Lower Upper  
104 100  
78 54.9 41.8 62.6  
103 45.1 37.0 55.4

Manual Integrations  
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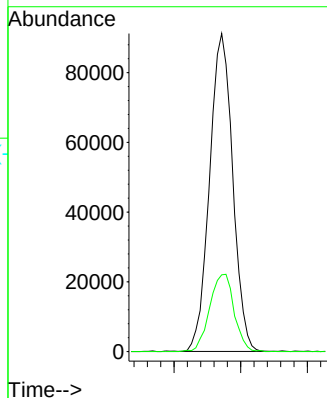
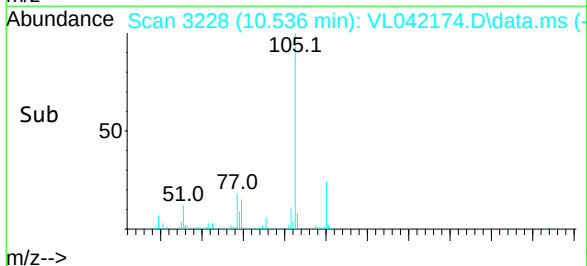
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

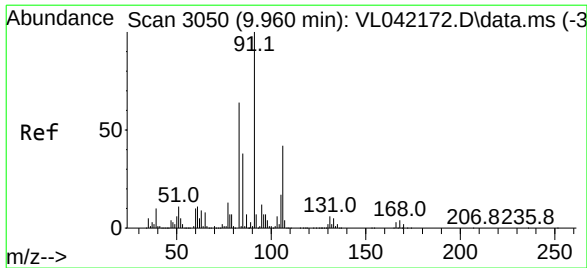


#62  
Isopropylbenzene  
Concen: 1.034 ppbv  
RT: 10.536 min Scan# 3228  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30



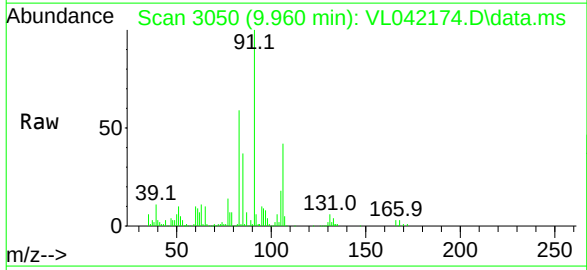
Tgt Ion:105 Resp: 109897  
Ion Ratio Lower Upper  
105 100  
120 25.7 19.9 29.9





#63  
1,1,2,2-Tetrachloroethane  
Concen: 1.029 ppbv  
RT: 9.960 min Scan# 3050  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

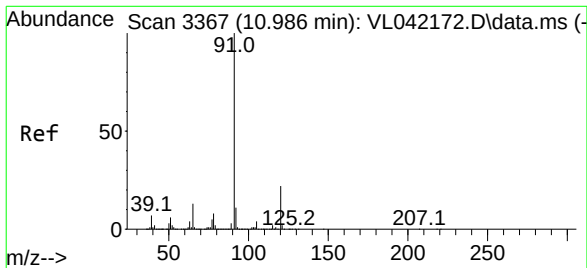
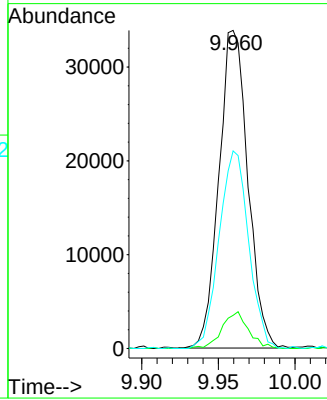
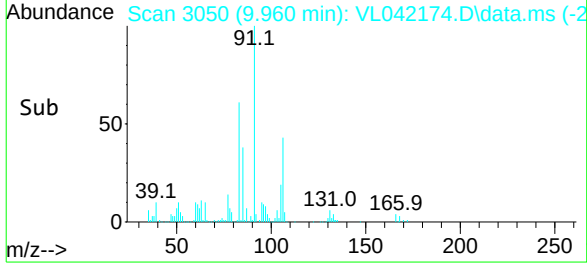
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



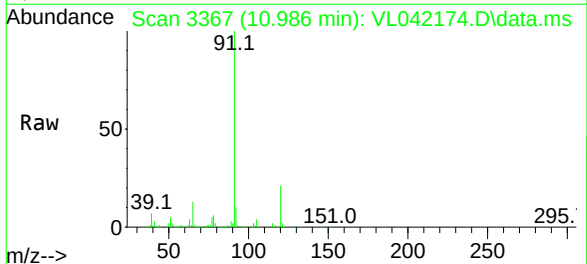
Tgt Ion: 83 Resp: 44431  
Ion Ratio Lower Upper  
83 100  
131 10.6 4.8 14.4  
85 64.0 32.5 97.5

Manual Integrations  
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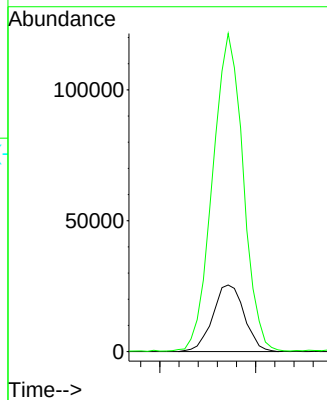
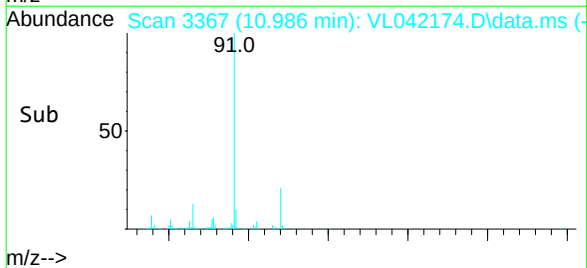
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

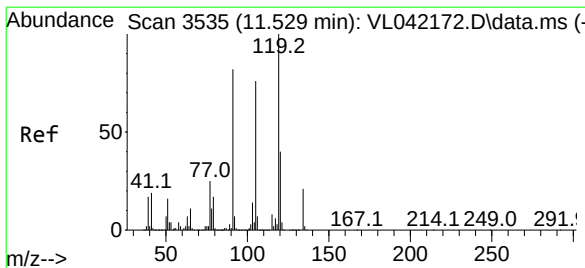


#64  
n-propylbenzene  
Concen: 1.062 ppbv  
RT: 10.986 min Scan# 3367  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30



Tgt Ion:120 Resp: 29054  
Ion Ratio Lower Upper  
120 100  
91 466.9 376.9 565.3





#65

tert-Butylbenzene

Concen: 1.053 ppbv

RT: 11.526 min Scan# 3535

Delta R.T. -0.003 min

Lab File: VL042174.D

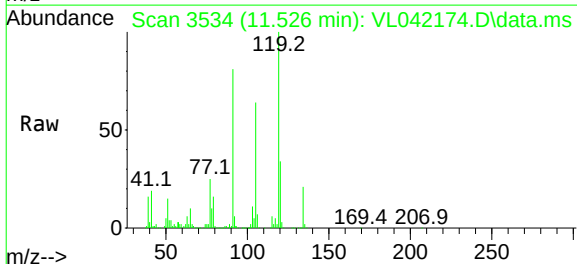
Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_L

ClientSampleId :

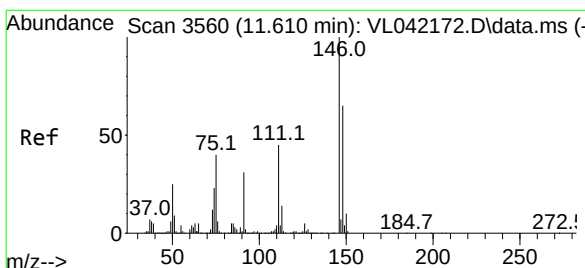
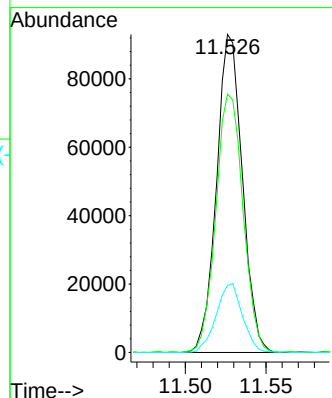
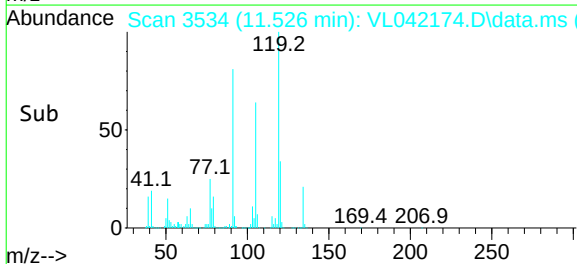
VSTDICC001



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 85.9  | 66.0  | 99.0  |
| 134     | 22.1  | 16.7  | 25.1  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 1.022 ppbv

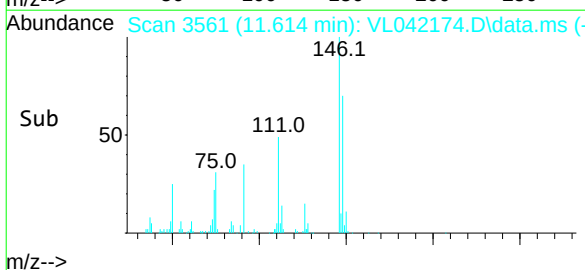
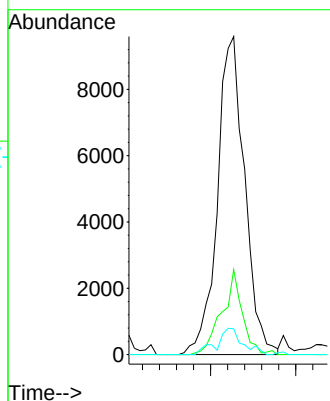
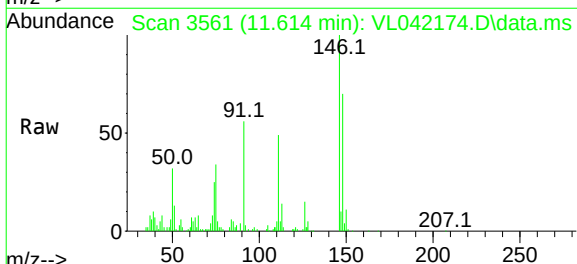
RT: 11.614 min Scan# 3561

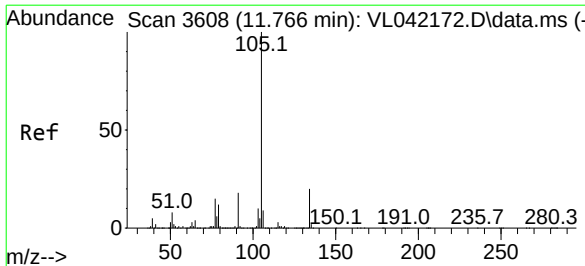
Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 20.0  | 13.8  | 20.6  |
| 128     | 8.0   | 4.5   | 6.7   |





#67

sec-Butylbenzene

Concen: 1.095 ppbv

RT: 11.762 min Scan# 3608

Delta R.T. -0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tgt Ion: 105 Resp: 149660

Ion Ratio Lower Upper

105 100

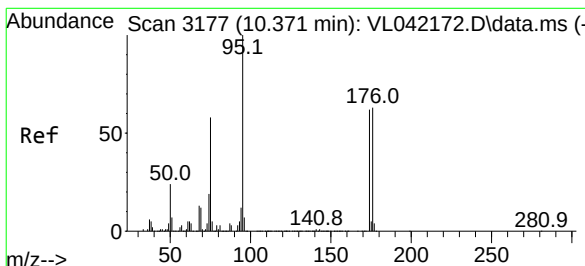
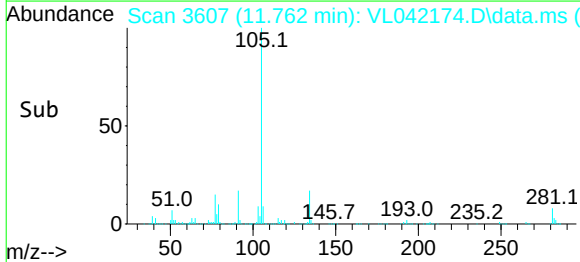
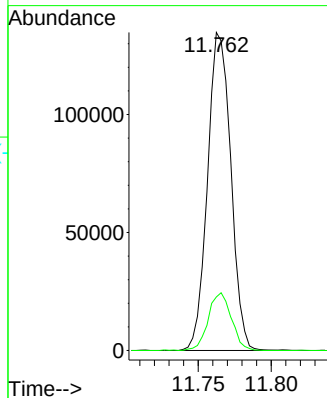
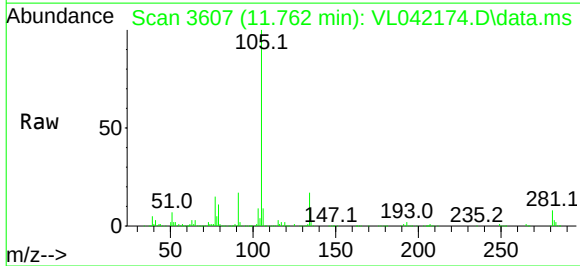
134 18.1 15.5 23.3

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025

Supervised By : Mahesh Dadoda 04/03/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.861 ppbv

RT: 10.371 min Scan# 3177

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

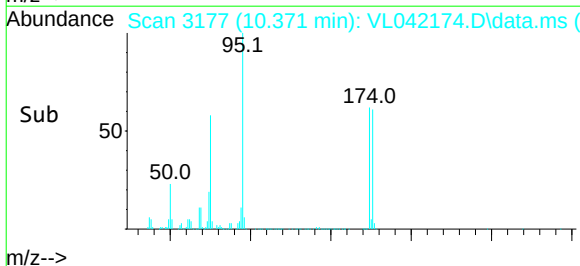
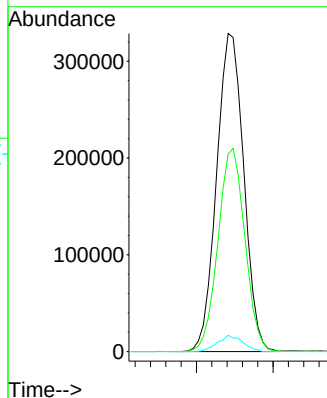
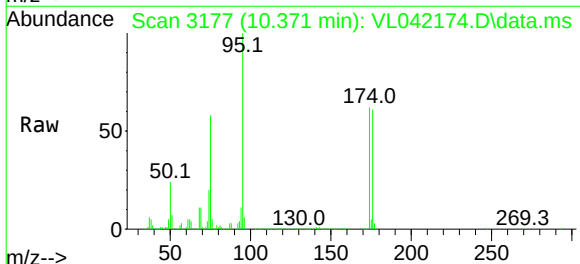
Tgt Ion: 95 Resp: 404753

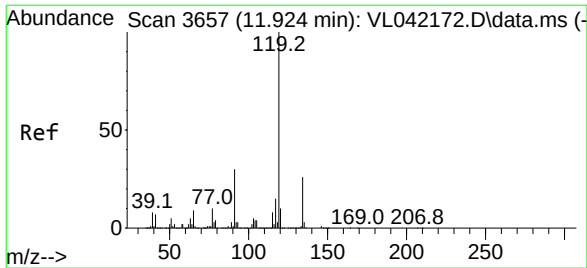
Ion Ratio Lower Upper

95 100

174 63.4 50.6 76.0

175 4.7 3.8 5.6





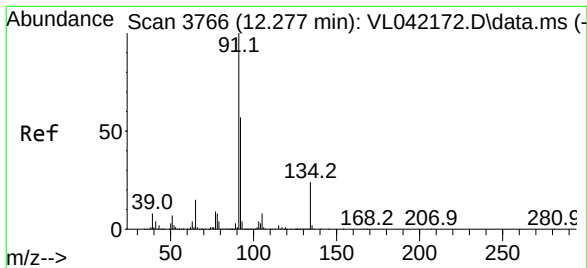
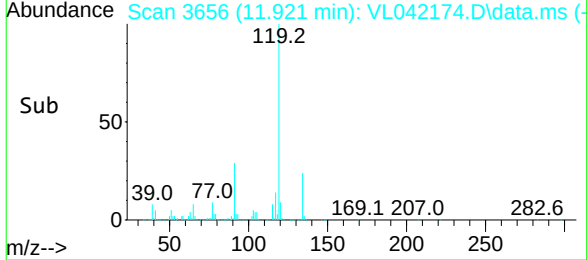
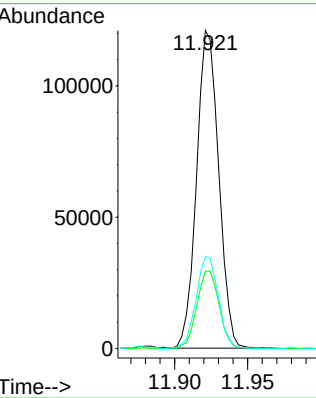
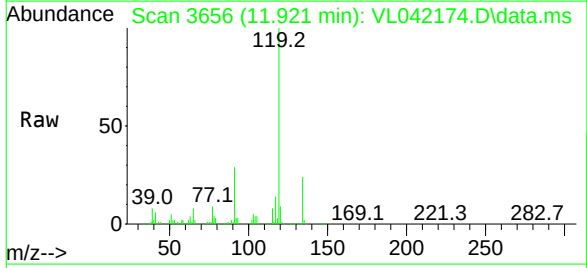
#69  
p-Isopropyltoluene  
Concen: 1.084 ppbv  
RT: 11.921 min Scan# 3656  
Delta R.T. -0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 119   | Resp: | 127509 |
| Ion      | Ratio | Lower | Upper  |
| 119      | 100   |       |        |
| 134      | 24.6  | 20.4  | 30.6   |
| 91       | 30.0  | 23.7  | 35.5   |

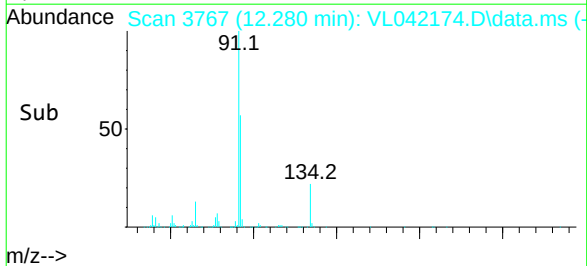
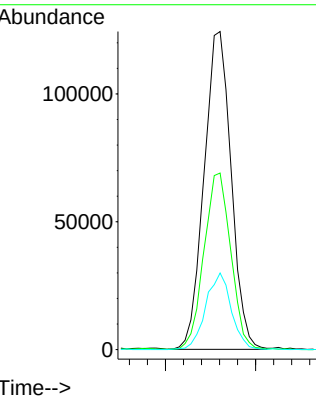
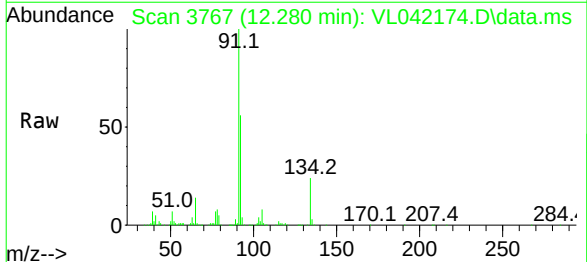
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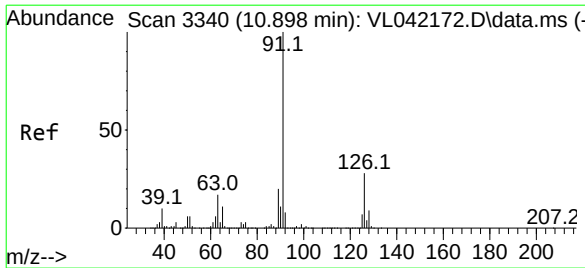
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#70  
n-Butylbenzene  
Concen: 1.079 ppbv  
RT: 12.280 min Scan# 3767  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 129860 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 55.5  | 44.9  | 67.3   |
| 134      | 22.8  | 19.2  | 28.8   |





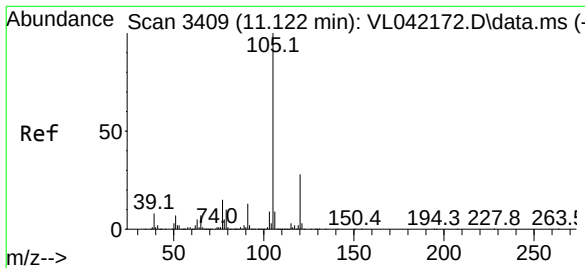
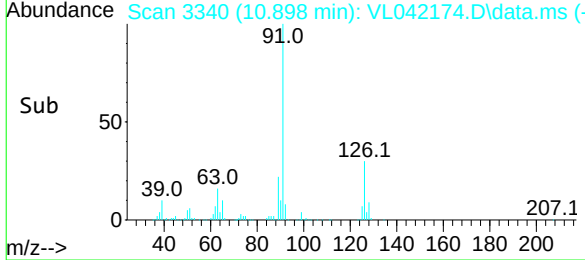
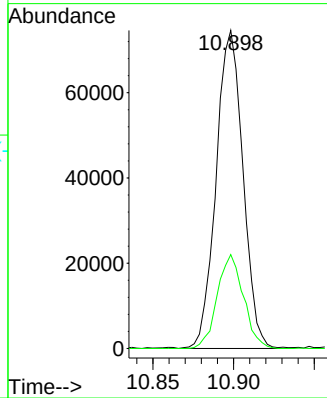
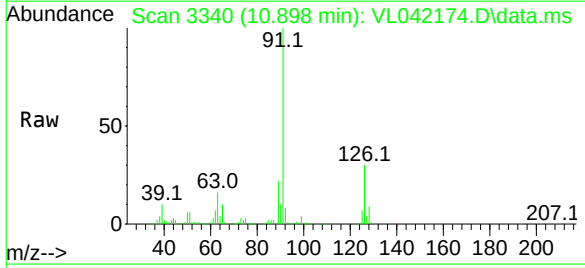
#71  
2-Chlorotoluene  
Concen: 1.047 ppbv  
RT: 10.898 min Scan# 3340  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 91 Resp: 86356  
Ion Ratio Lower Upper  
91 100  
126 28.8 11.6 46.4

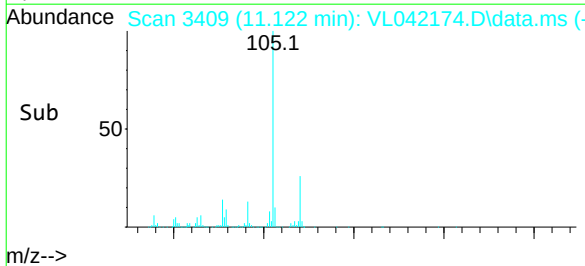
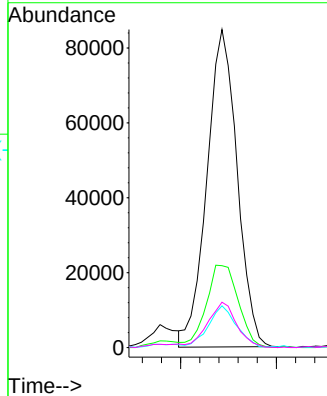
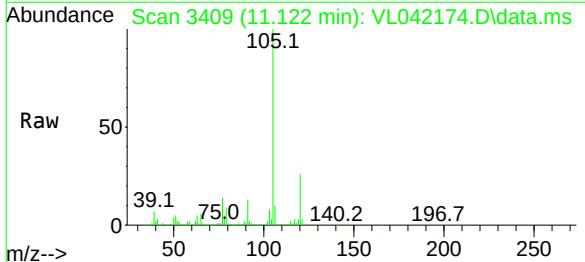
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

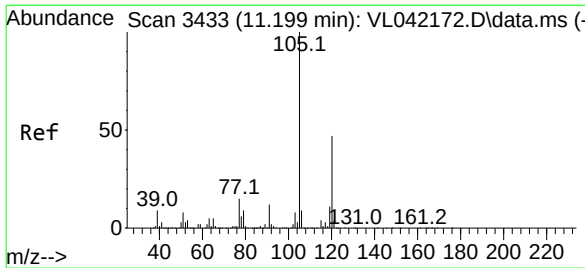


#72  
4-Ethyltoluene  
Concen: 1.050 ppbv  
RT: 11.122 min Scan# 3409  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 92912  
Ion Ratio Lower Upper  
105 100  
120 29.7 23.4 35.0  
91 13.5 10.3 15.5  
77 15.1 11.4 17.2

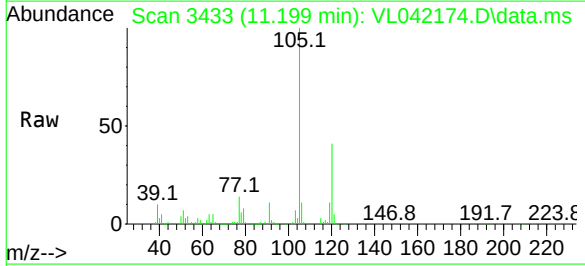






#73  
1,3,5-Trimethylbenzene  
Concen: 1.080 ppbv  
RT: 11.199 min Scan# 3433  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

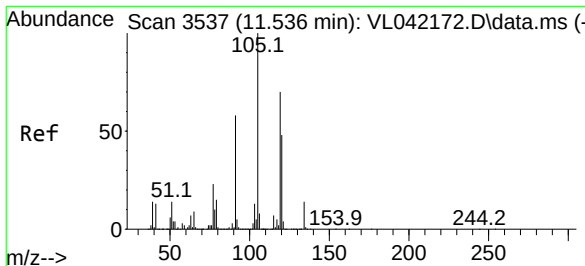
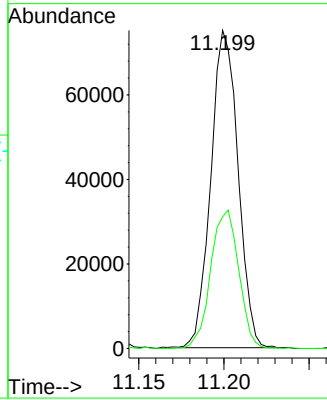
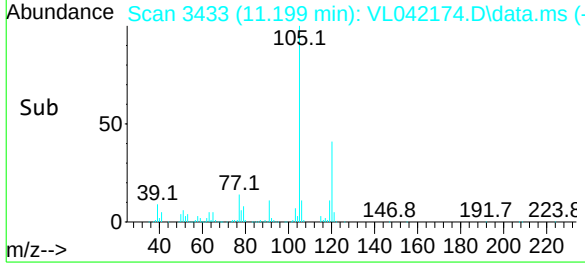
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



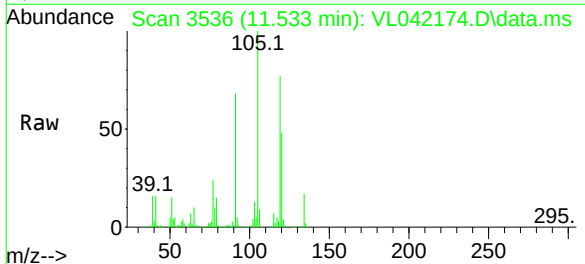
Tgt Ion:105 Resp: 83497  
Ion Ratio Lower Upper  
105 100  
120 41.3 37.4 56.0

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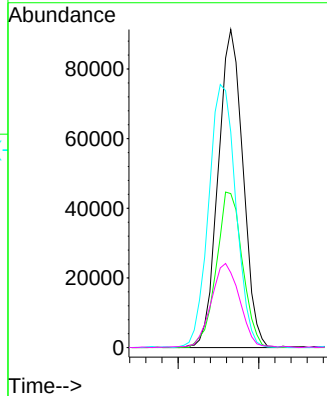
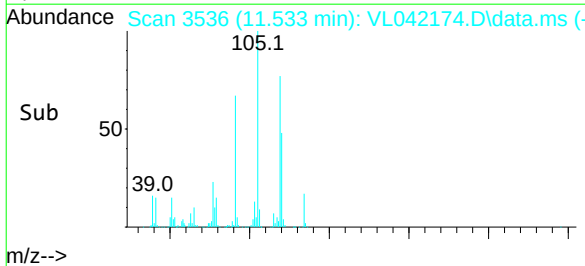
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

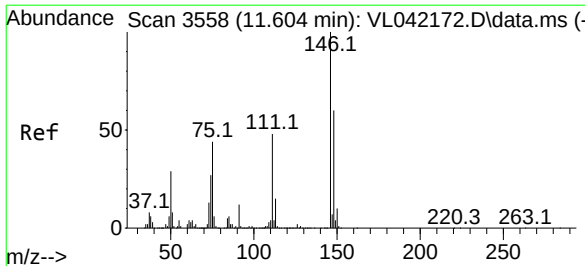


#74  
1,2,4-Trimethylbenzene  
Concen: 1.099 ppbv  
RT: 11.533 min Scan# 3536  
Delta R.T. -0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30



Tgt Ion:105 Resp: 97858  
Ion Ratio Lower Upper  
105 100  
120 48.4 38.6 58.0  
91 67.6 46.2 69.2  
77 23.4 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 1.046 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_L

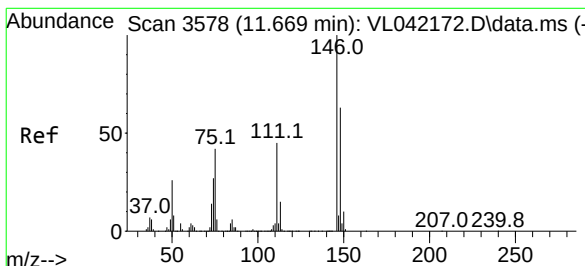
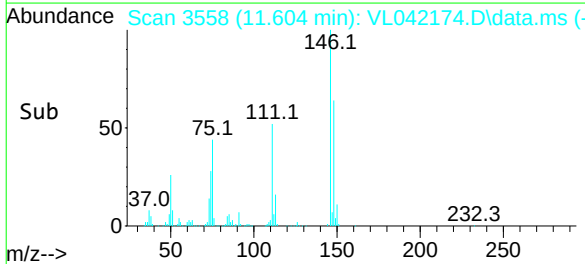
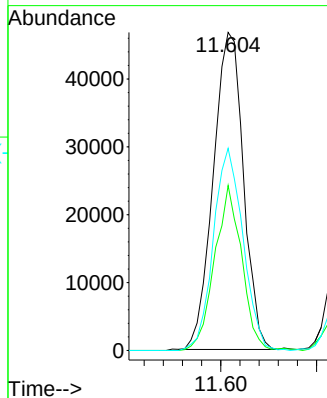
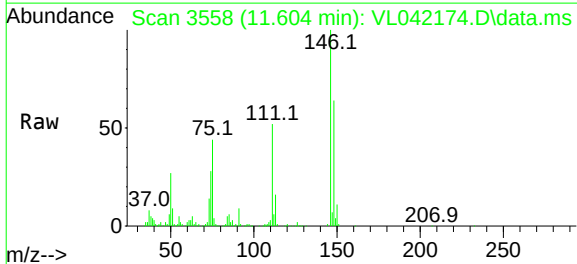
ClientSampleId :

VSTDIC001

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 51096 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 46.8  | 23.8  | 71.2  |
| 148       | 62.6  | 31.9  | 95.9  |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 1.046 ppbv

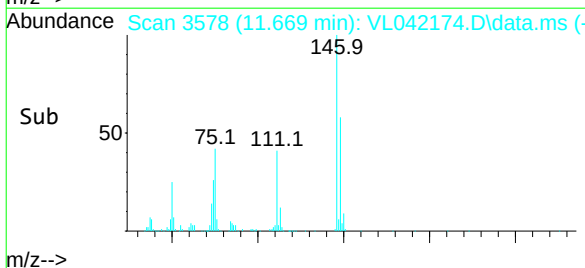
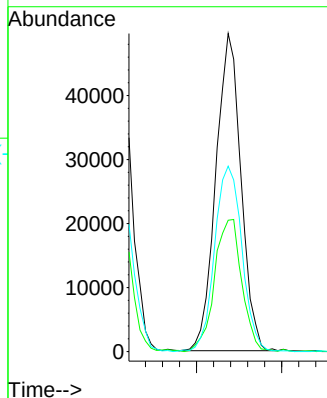
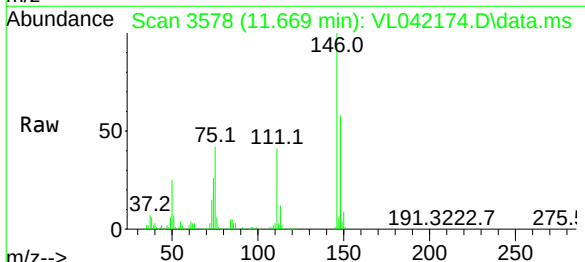
RT: 11.669 min Scan# 3578

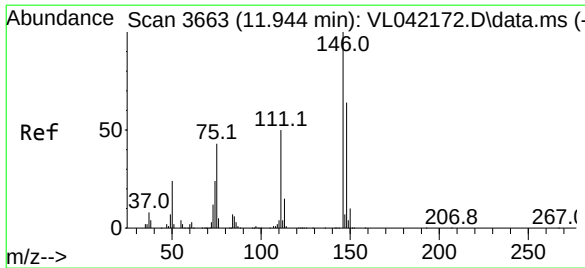
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

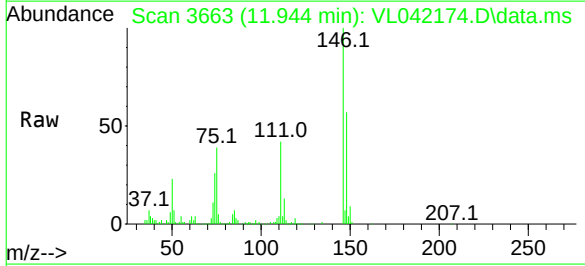
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 50841 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 45.4  | 23.0  | 69.0  |
| 148       | 63.6  | 31.9  | 95.7  |





#77  
1,2-Dichlorobenzene  
Concen: 1.084 ppbv  
RT: 11.944 min Scan# 3663  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

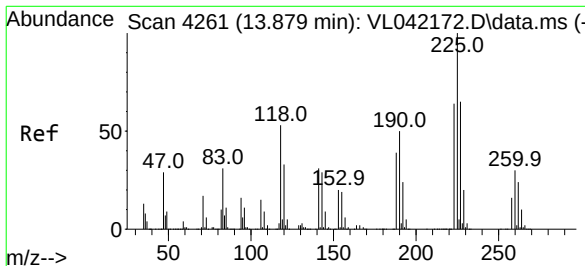
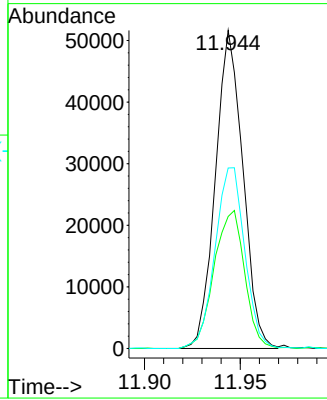
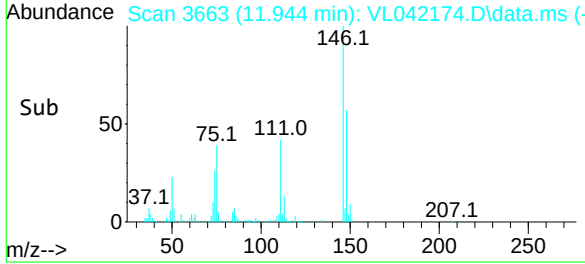
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



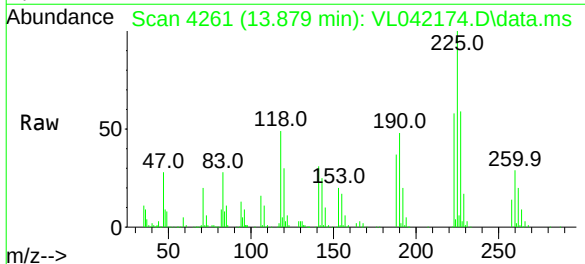
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 48.6  | 24.8  | 74.3  |
| 148     | 61.9  | 31.6  | 94.8  |

Manual Integrations  
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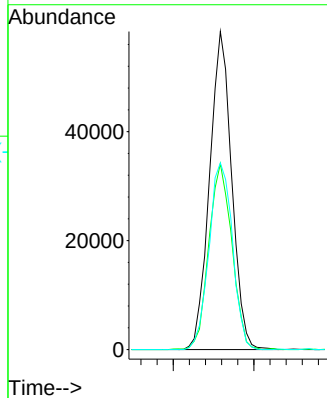
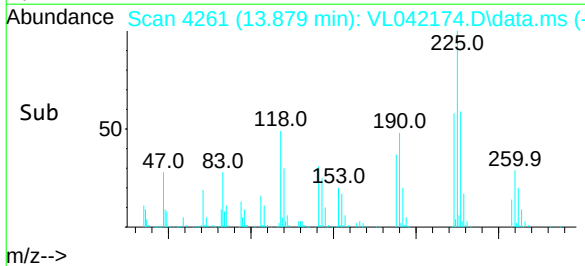
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

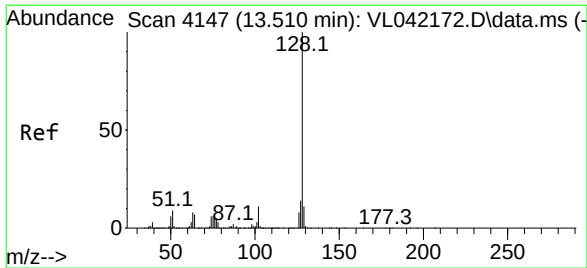


#78  
Hexachloro-1,3-Butadiene  
Concen: 1.149 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 60.8  | 50.6  | 76.0  |
| 227     | 62.3  | 51.2  | 76.8  |





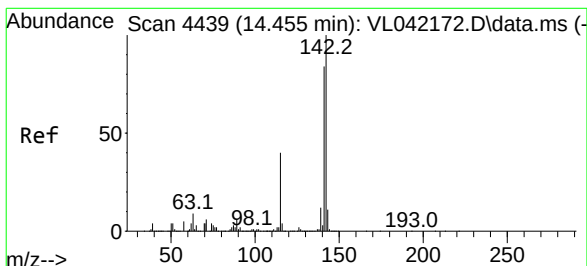
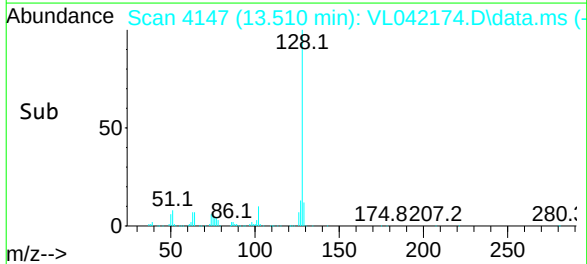
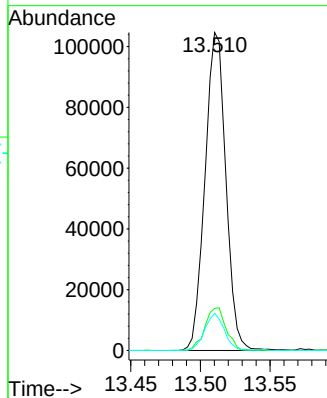
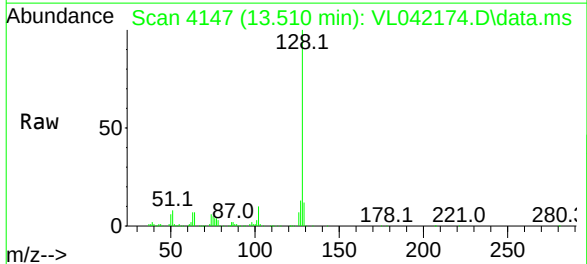
#79  
Naphthalene  
Concen: 1.120 ppbv  
RT: 13.510 min Scan# 4147  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 109031 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 13.2  | 10.8  | 16.2   |
| 129       | 11.7  | 9.0   | 13.4   |

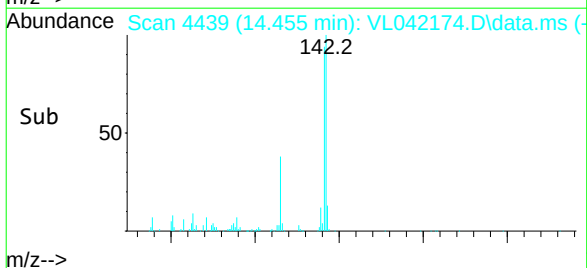
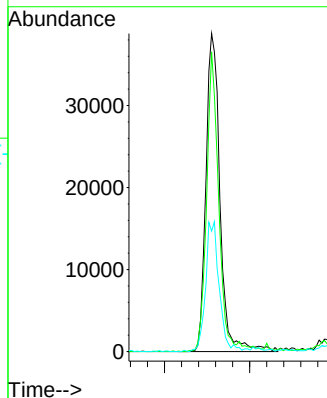
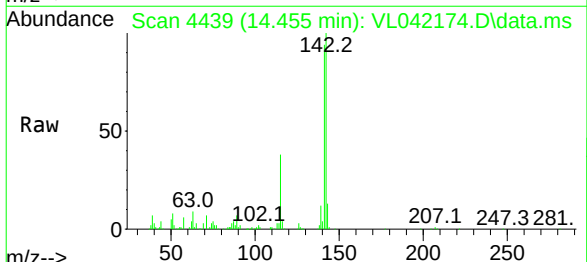
Manual Integrations  
APPROVED

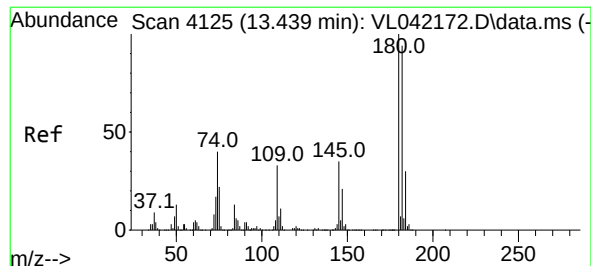
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#80  
Naphthalene, 2-methyl-  
Concen: 0.939 ppbv  
RT: 14.455 min Scan# 4439  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

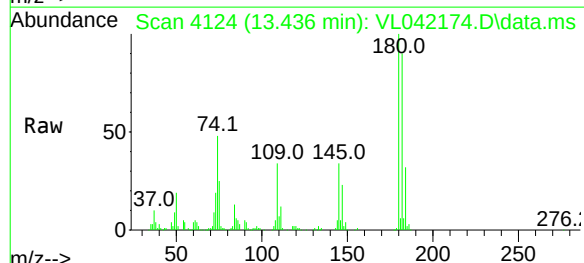
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 44518 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 83.4  | 66.3  | 99.5  |
| 115       | 41.5  | 31.6  | 47.4  |





#81  
1,2,4-Trichlorobenzene  
Concen: 1.047 ppbv  
RT: 13.436 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

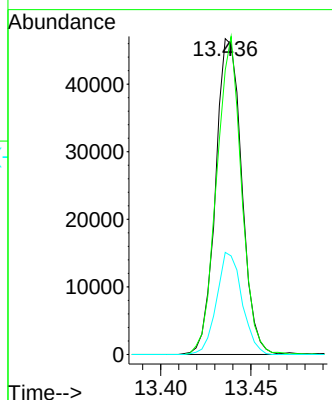
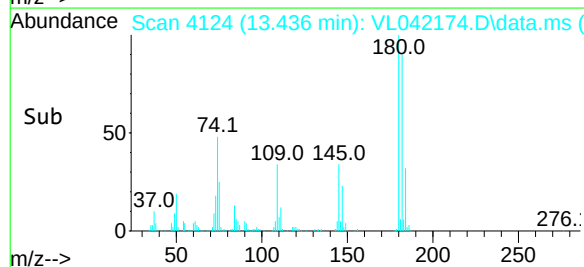
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



Tgt Ion:180 Resp: 47040  
Ion Ratio Lower Upper  
180 100  
182 95.7 75.1 112.7  
184 31.4 24.4 36.6

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



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

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

### 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   | 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

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) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 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

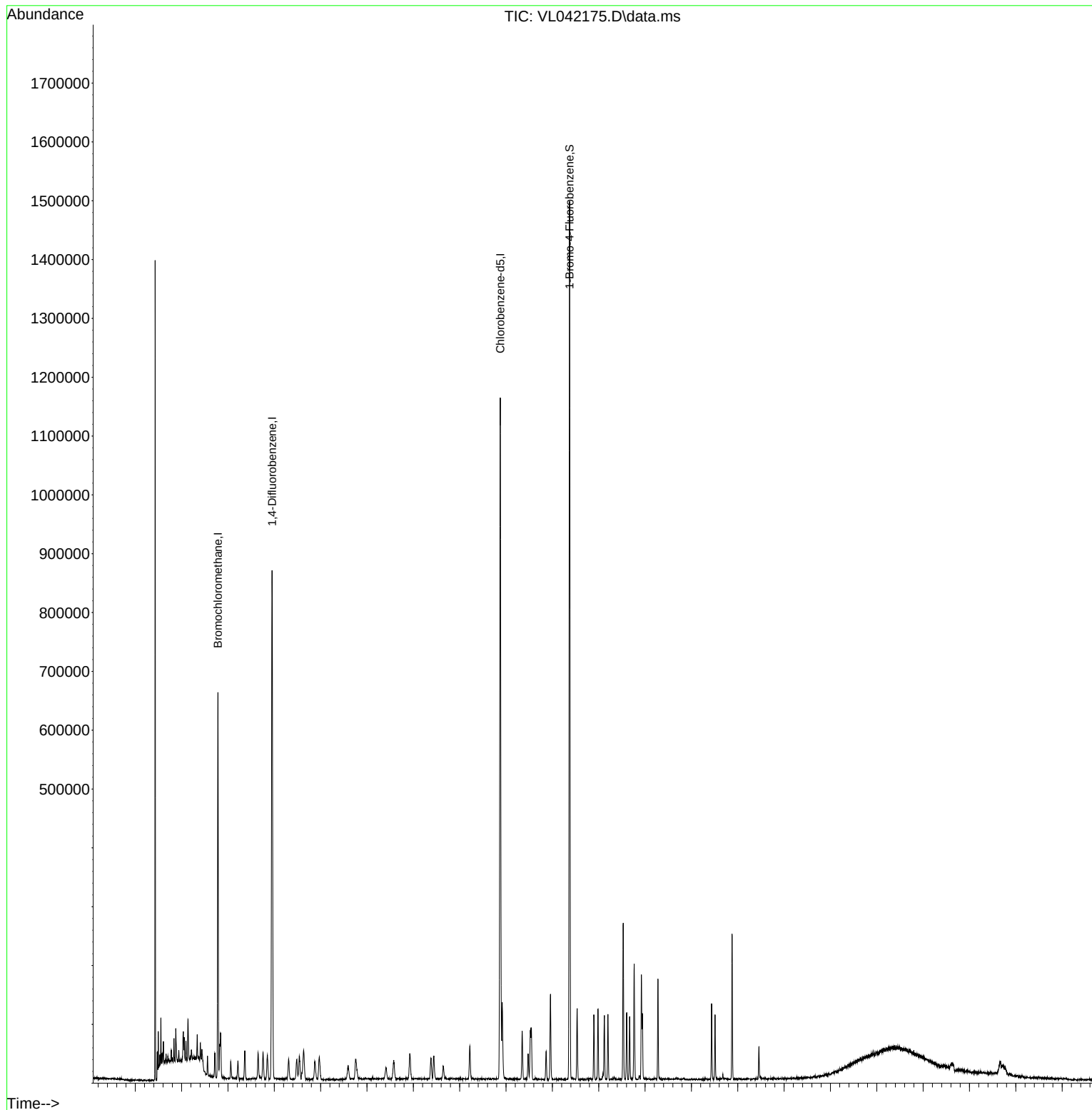
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Data File : VL042175.D  
Acq On : 27 Mar 2025 10:01  
Operator : SY/MD  
Sample : VSTDICC0.5  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

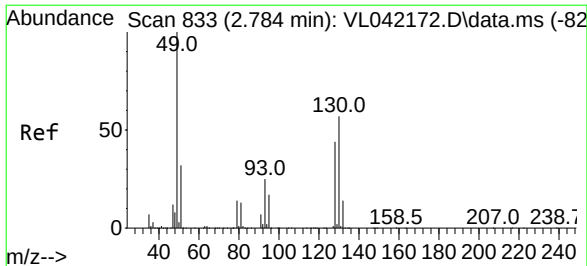
Manual Integrations  
APPROVED

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

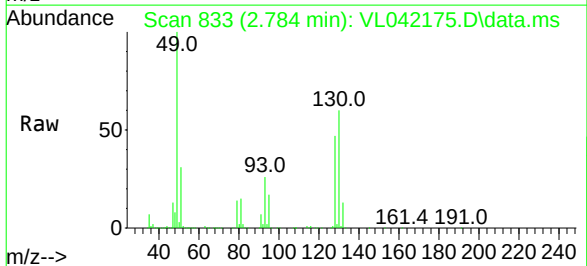






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 833  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

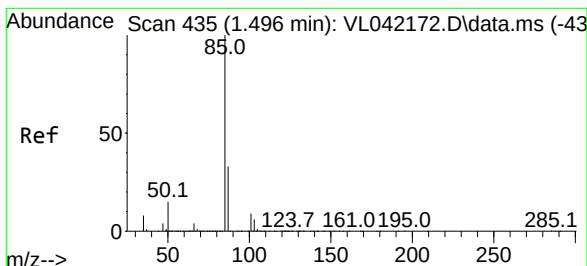
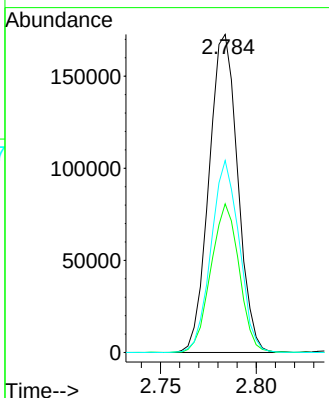
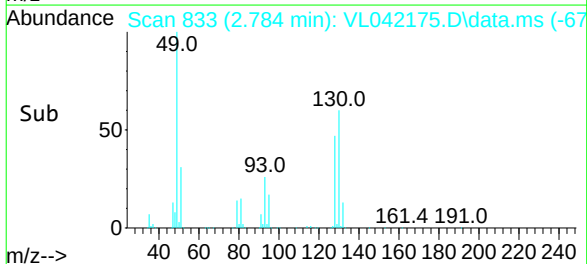
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



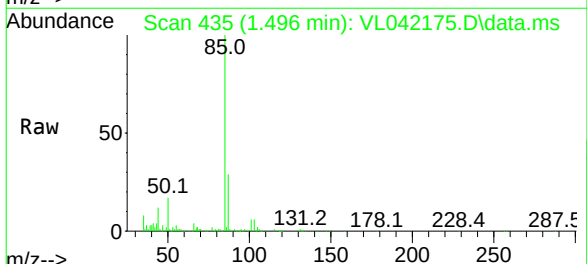
Tgt Ion: 49 Resp: 180502  
Ion Ratio Lower Upper  
49 100  
128 46.1 22.9 68.5  
130 59.2 28.8 86.4

Manual Integrations  
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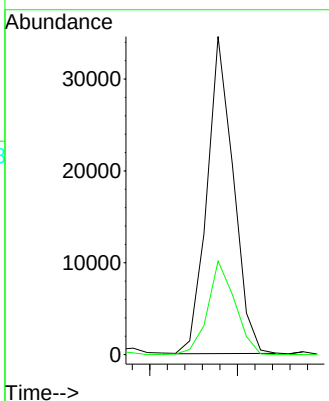
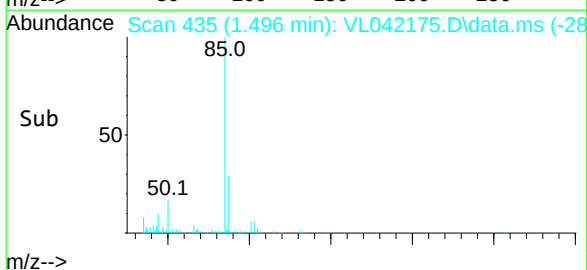
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

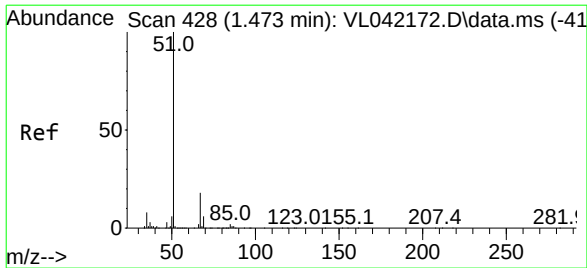


#2  
Dichlorodifluoromethane  
Concen: 0.542 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01



Tgt Ion: 85 Resp: 14455  
Ion Ratio Lower Upper  
85 100  
87 29.5 26.1 39.1





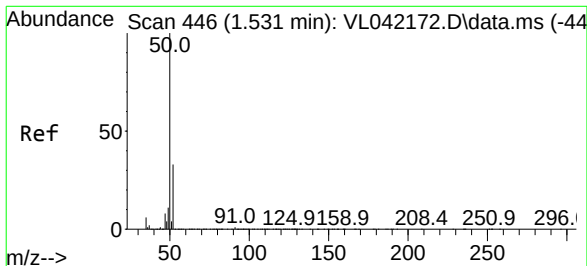
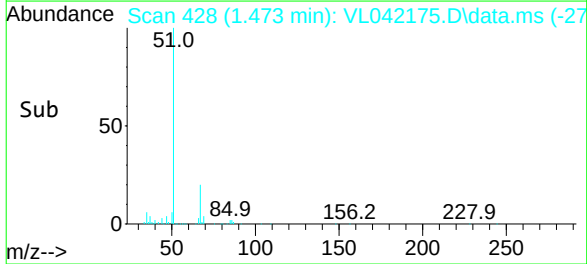
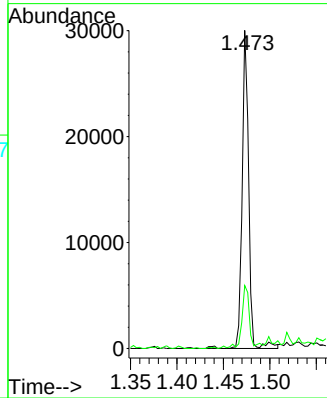
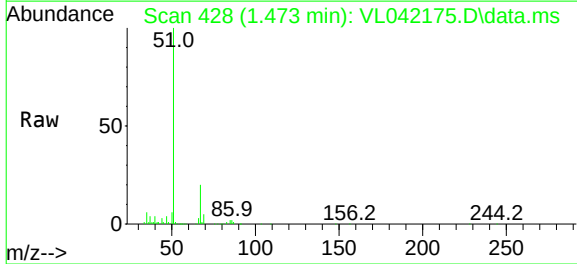
#3  
Chlorodifluoromethane  
Concen: 0.538 ppbv  
RT: 1.473 min Scan# 428  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 51 Resp: 14637  
Ion Ratio Lower Upper  
51 100  
67 23.6 15.0 22.6#

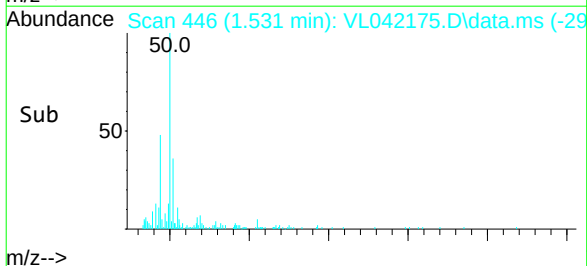
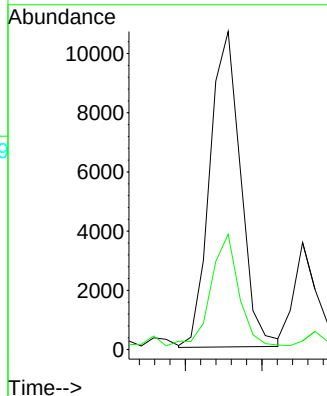
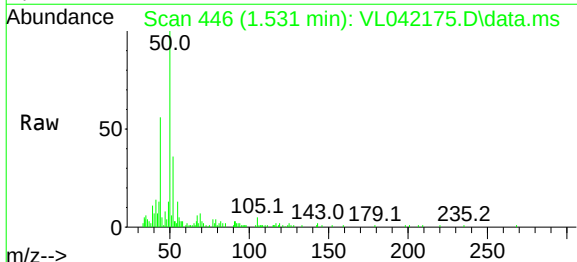
Manual Integrations  
APPROVED

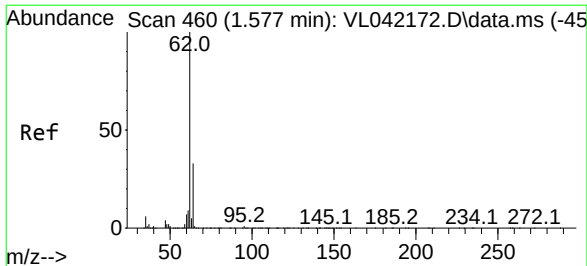
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#4  
Chloromethane  
Concen: 0.547 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 50 Resp: 5956  
Ion Ratio Lower Upper  
50 100  
52 36.1 26.1 39.1





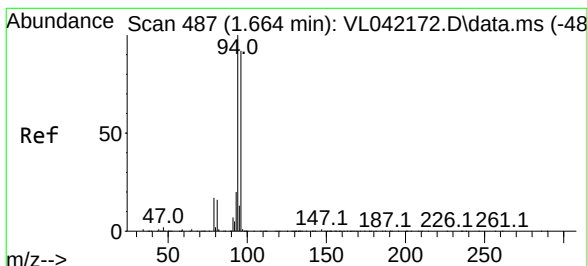
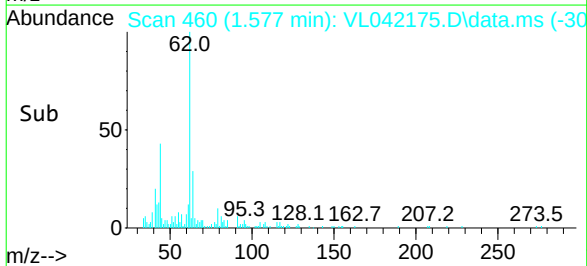
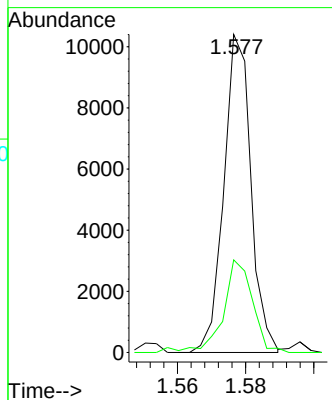
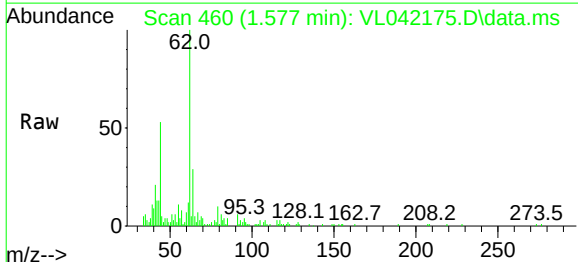
#5  
 Vinyl Chloride  
 Concen: 0.516 ppbv  
 RT: 1.577 min Scan# 460  
 Delta R.T. -0.000 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

Instrument : MSVOA\_1  
 ClientSampleId : VSTDIC0.5

Tgt Ion: 62 Resp: 5732  
 Ion Ratio Lower Upper  
 62 100  
 64 28.5 26.6 40.0

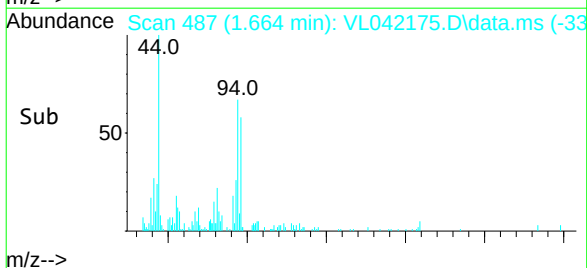
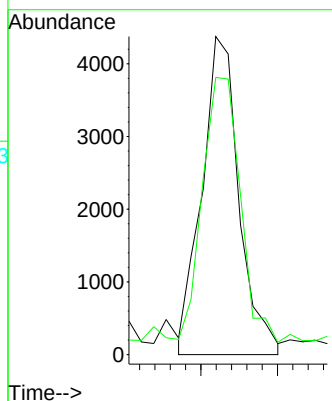
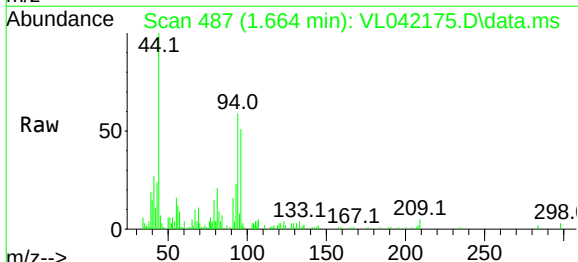
Manual Integrations  
 APPROVED

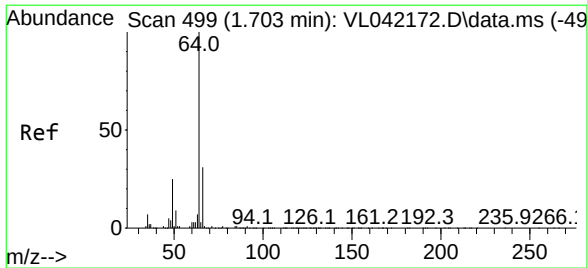
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#6  
 Bromomethane  
 Concen: 0.597 ppbv  
 RT: 1.664 min Scan# 487  
 Delta R.T. -0.000 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

Tgt Ion: 94 Resp: 2949  
 Ion Ratio Lower Upper  
 94 100  
 96 86.2 73.1 109.7





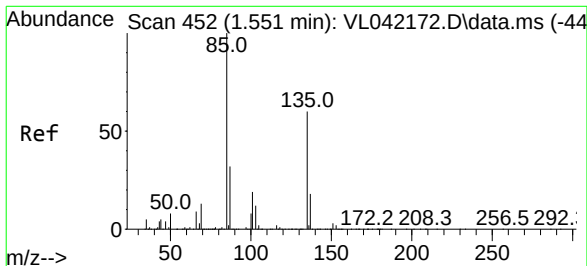
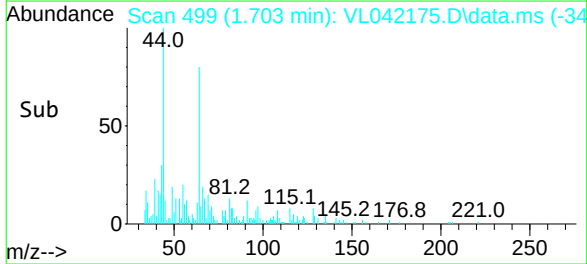
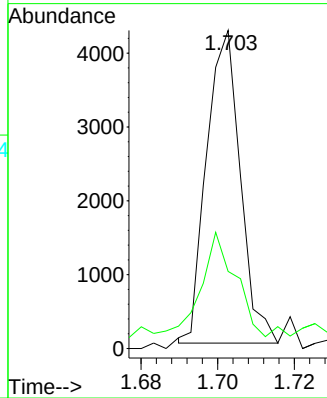
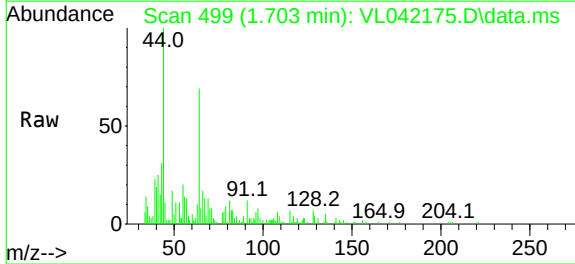
#7  
Chloroethane  
Concen: 0.591 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 64 Resp: 2582  
Ion Ratio Lower Upper  
64 100  
66 24.2 25.2 37.8

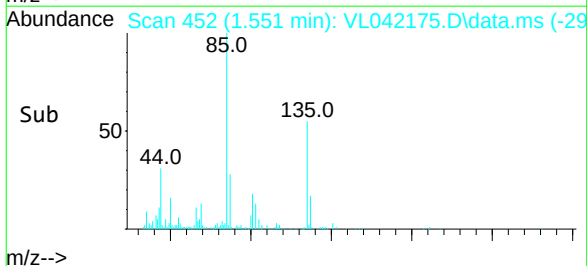
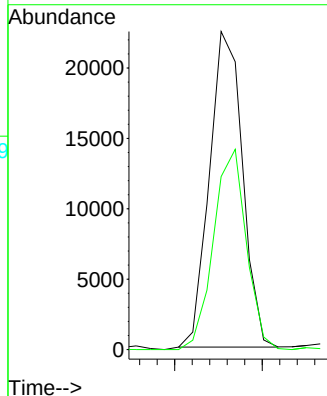
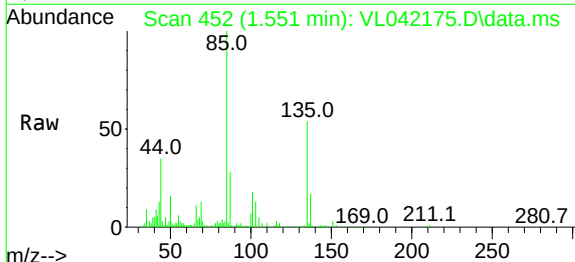
Manual Integrations  
APPROVED

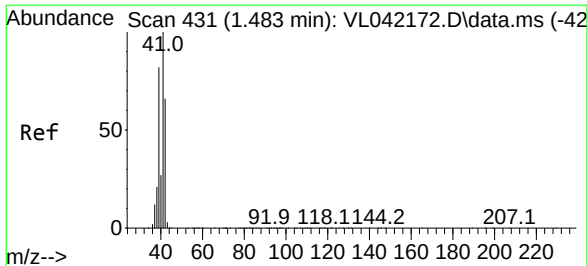
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#8  
Dichlorotetrafluoroethane  
Concen: 0.519 ppbv  
RT: 1.551 min Scan# 452  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 85 Resp: 11783  
Ion Ratio Lower Upper  
85 100  
135 63.7 52.4 78.6





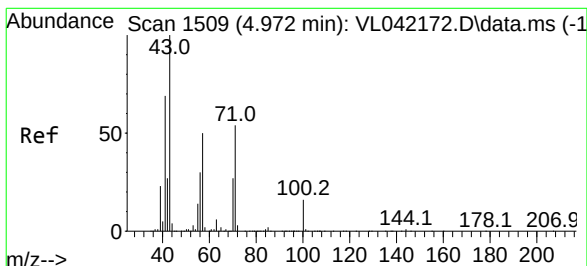
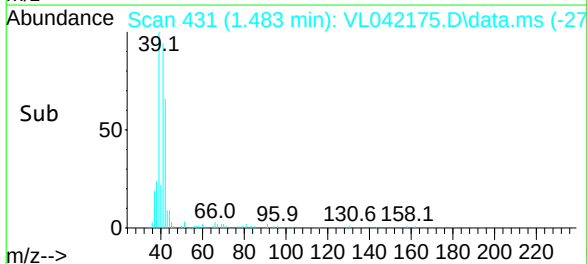
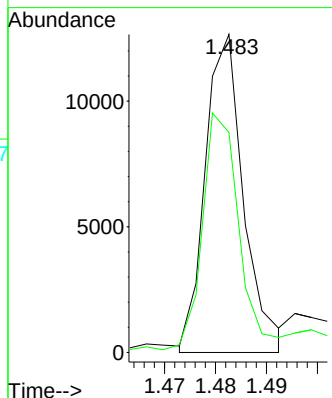
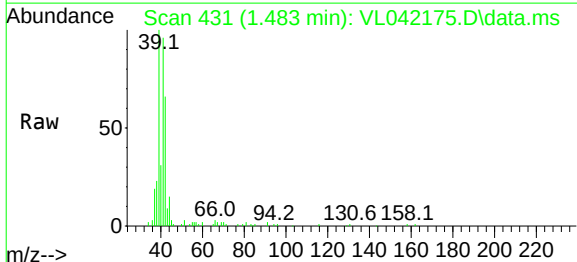
#9  
Propene  
Concen: 0.540 ppbv m  
RT: 1.483 min Scan# 431  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 41 Resp: 6622  
Ion Ratio Lower Upper  
41 100  
42 19.5 55.4 83.2#

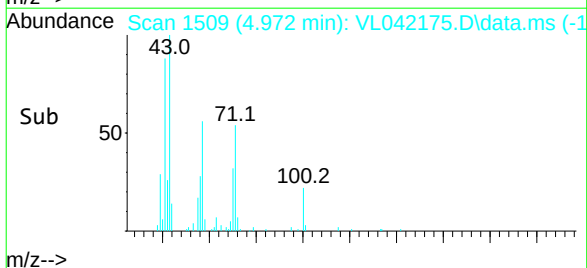
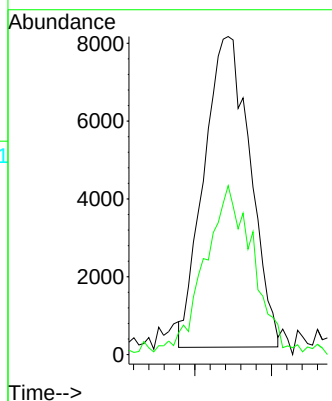
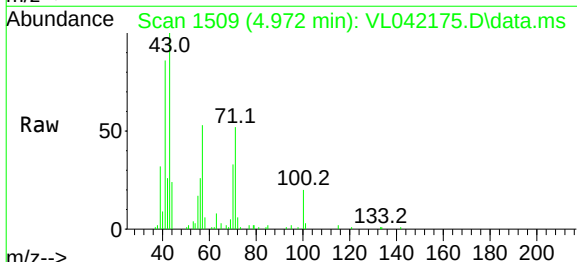
Manual Integrations  
APPROVED

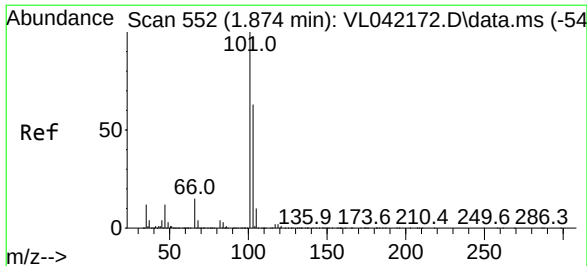
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#10  
Heptane  
Concen: 0.502 ppbv  
RT: 4.972 min Scan# 1509  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 16673  
Ion Ratio Lower Upper  
43 100  
57 57.0 39.4 59.2





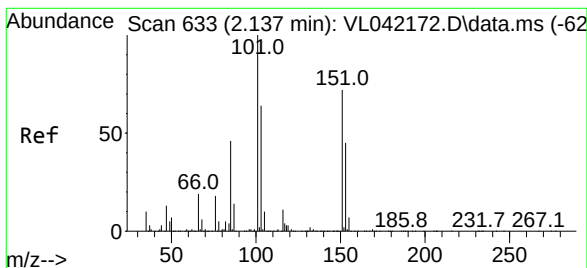
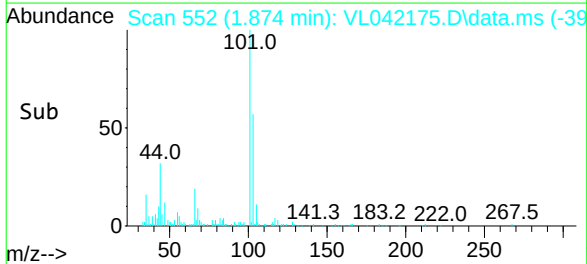
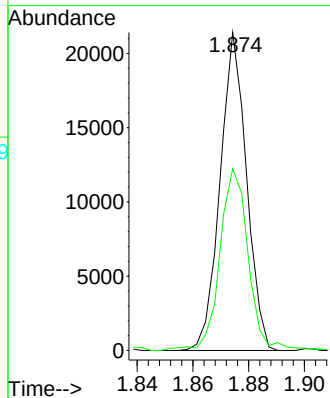
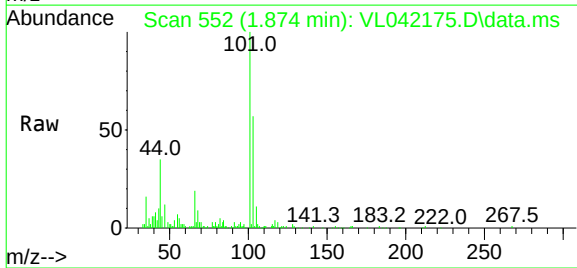
#11  
Trichlorofluoromethane  
Concen: 0.544 ppbv  
RT: 1.874 min Scan# 552  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:101 Resp: 14099  
Ion Ratio Lower Upper  
101 100  
103 56.3 50.2 75.2

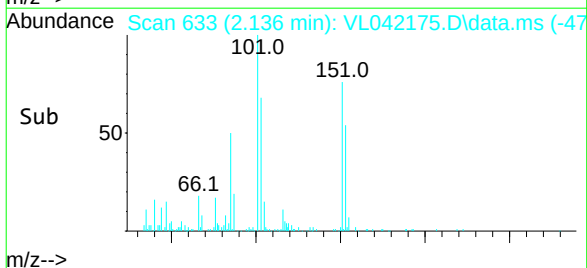
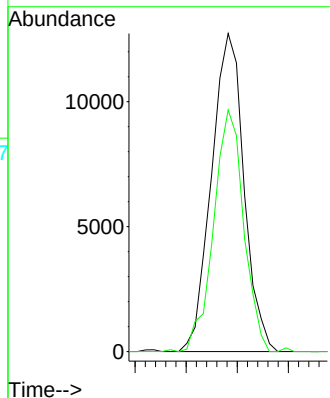
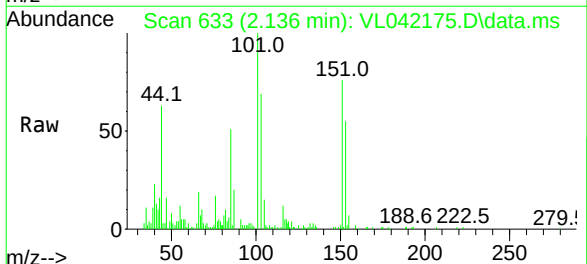
Manual Integrations  
APPROVED

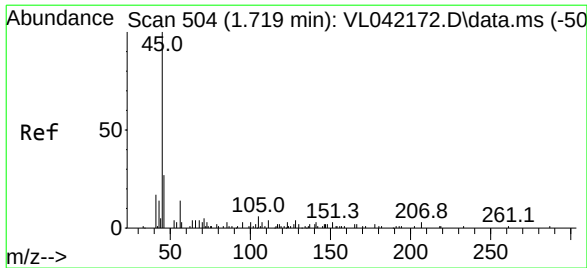
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.528 ppbv  
RT: 2.136 min Scan# 633  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion:101 Resp: 11252  
Ion Ratio Lower Upper  
101 100  
151 70.6 57.1 85.7





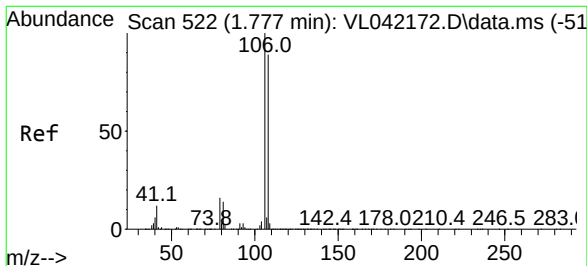
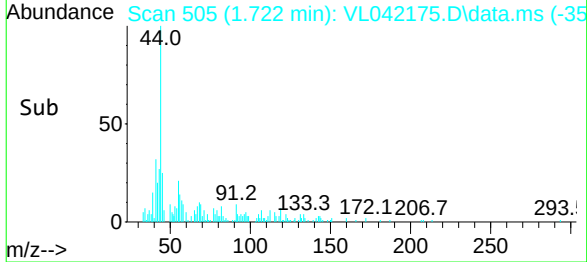
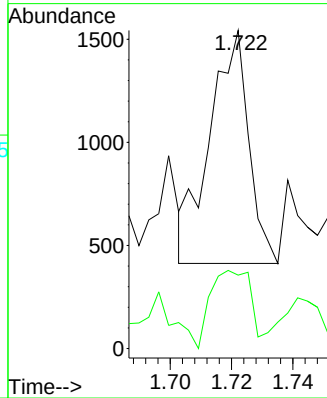
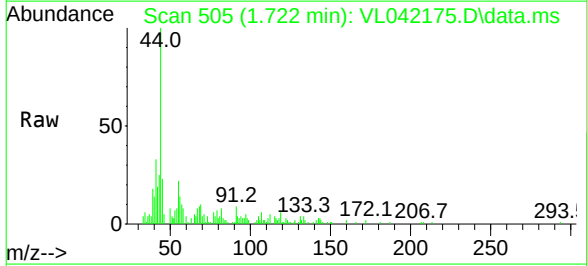
#13  
Ethanol  
Concen: 1.038 ppbv  
RT: 1.722 min Scan# 504  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 45 Resp: 997  
Ion Ratio Lower Upper  
45 100  
46 94.5 20.2 80.8#

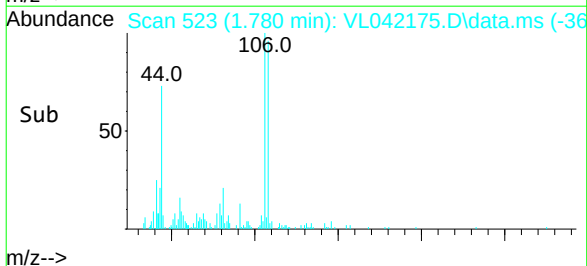
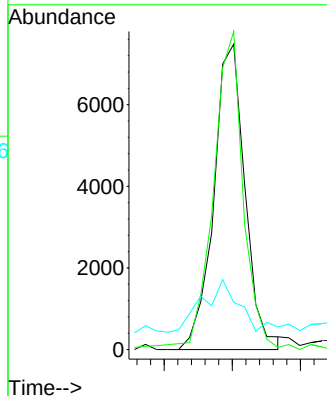
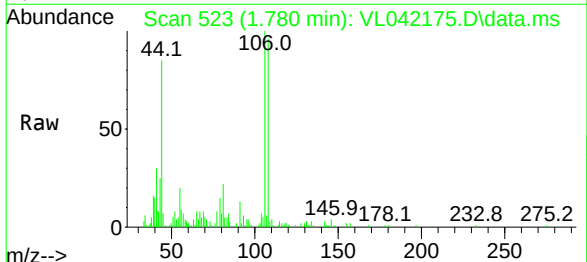
Manual Integrations  
APPROVED

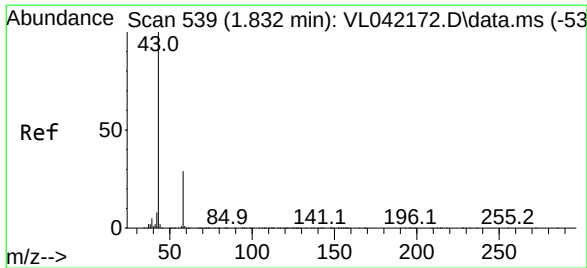
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#14  
Bromoethene  
Concen: 0.584 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion:108 Resp: 4770  
Ion Ratio Lower Upper  
108 100  
106 101.3 86.8 130.2  
79 42.6 15.0 22.6#





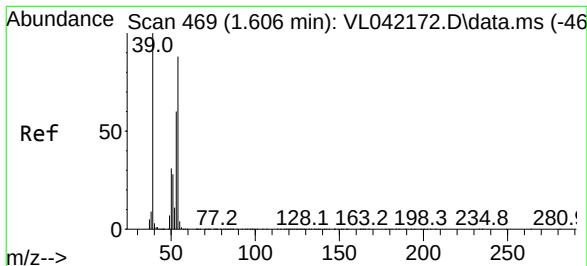
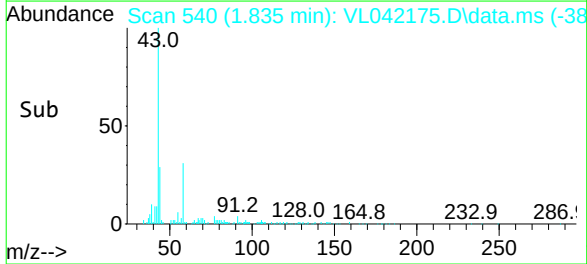
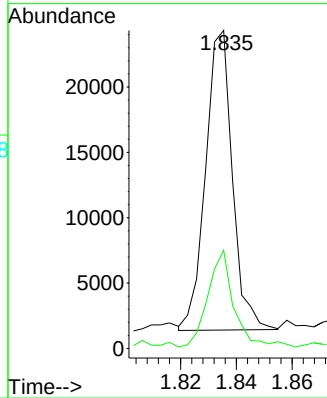
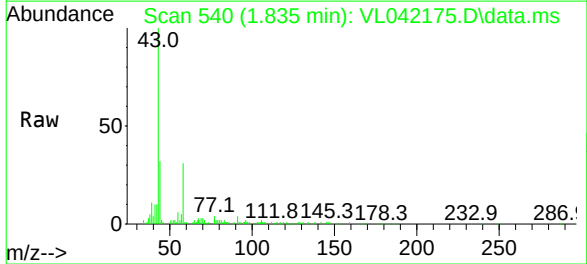
#15  
Acetone  
Concen: 0.607 ppbv  
RT: 1.835 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 43 Resp: 15331  
Ion Ratio Lower Upper  
43 100  
58 37.1 23.2 34.8#

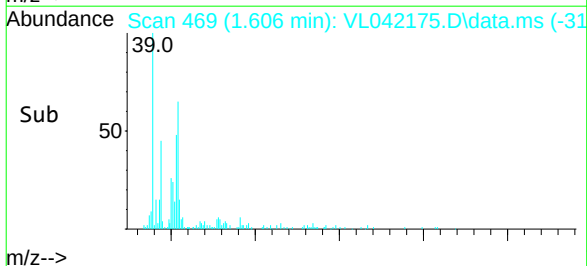
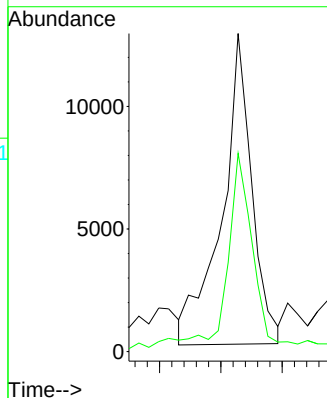
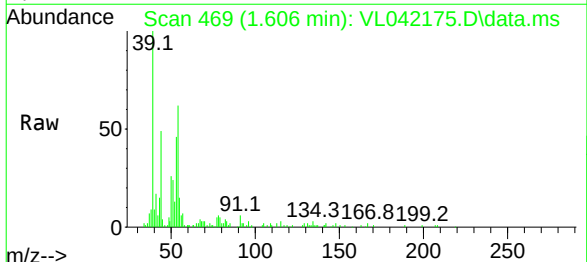
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

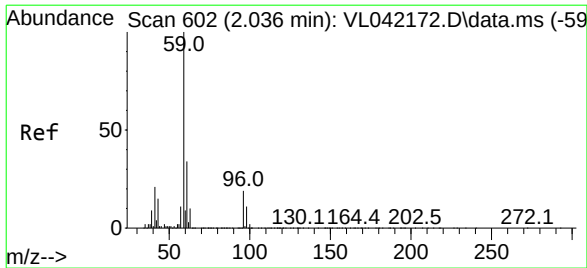


#16  
1,3-Butadiene  
Concen: 0.757 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 39 Resp: 8594  
Ion Ratio Lower Upper  
39 100  
54 60.7 60.7 91.1







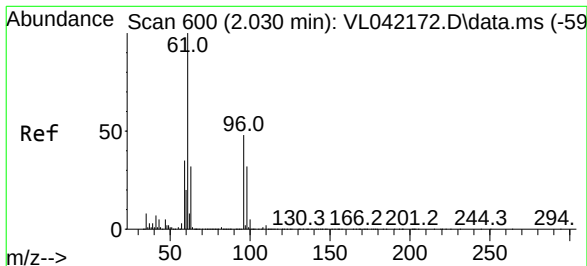
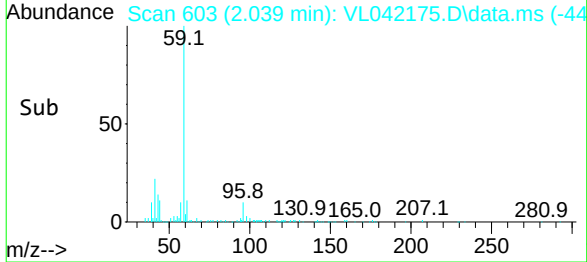
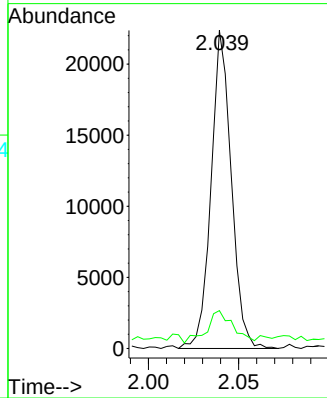
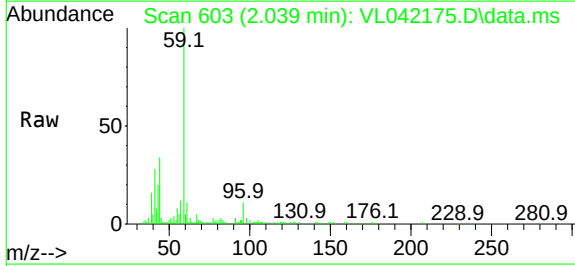
#17  
tert-Butyl alcohol  
Concen: 0.556 ppbv  
RT: 2.039 min Scan# 602  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 59 Resp: 17467  
Ion Ratio Lower Upper  
59 100  
57 12.1 8.9 13.3

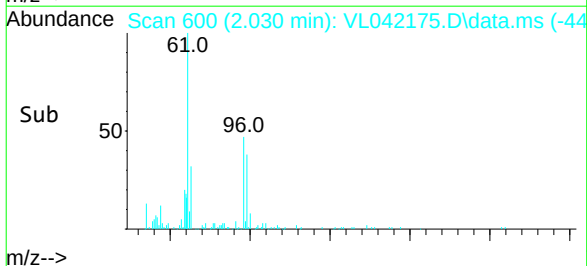
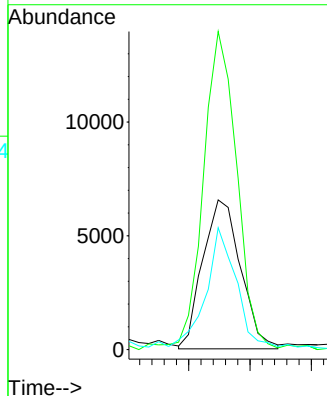
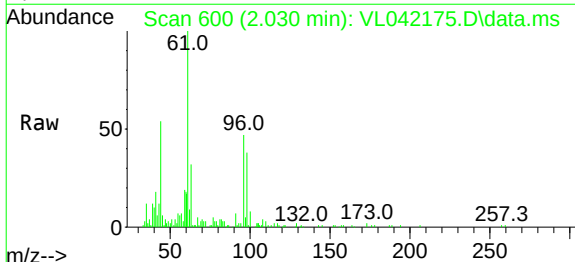
Manual Integrations  
APPROVED

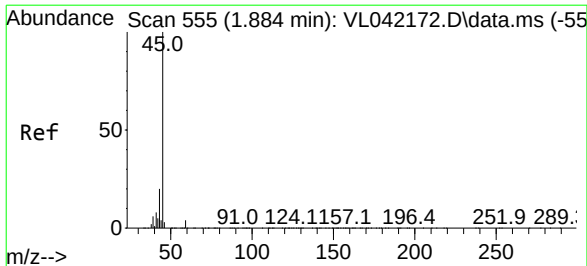
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#18  
1,1-Dichloroethene  
Concen: 0.565 ppbv  
RT: 2.030 min Scan# 600  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 96 Resp: 5634  
Ion Ratio Lower Upper  
96 100  
61 216.6 167.6 251.4  
98 81.2 53.5 80.3#





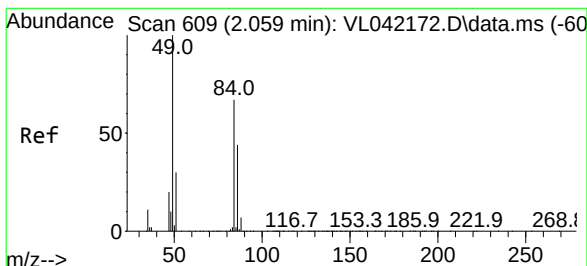
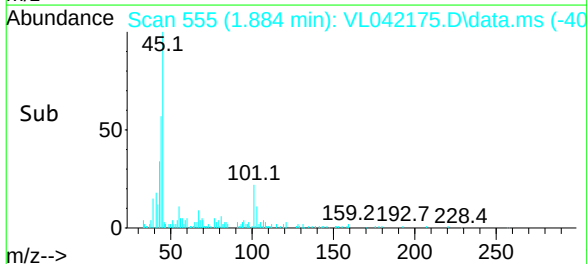
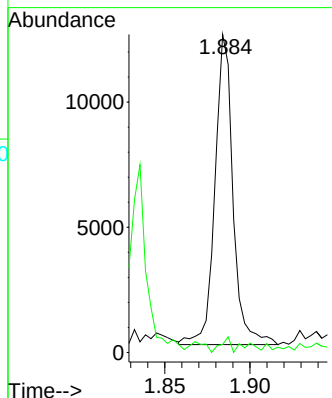
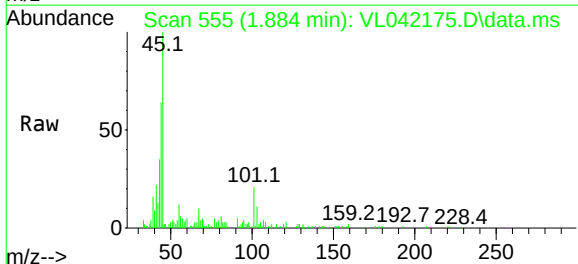
#19  
Isopropyl Alcohol  
Concen: 0.644 ppbv  
RT: 1.884 min Scan# 555  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 45 Resp: 9171  
Ion Ratio Lower Upper  
45 100  
58 5.5 36.9 55.3#

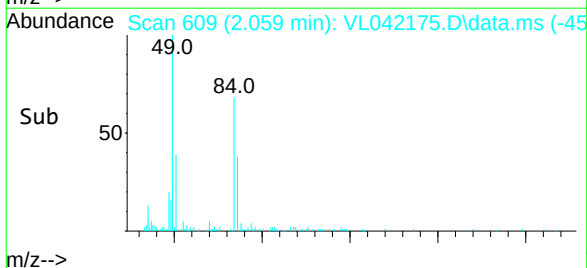
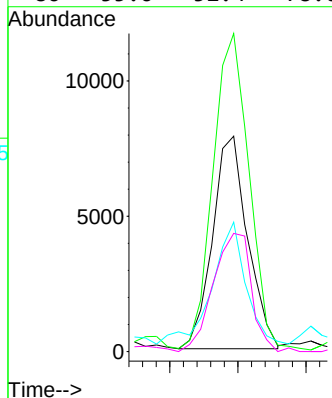
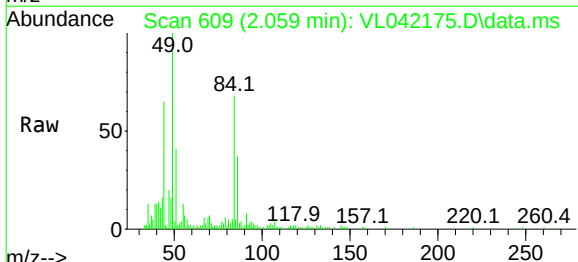
Manual Integrations  
APPROVED

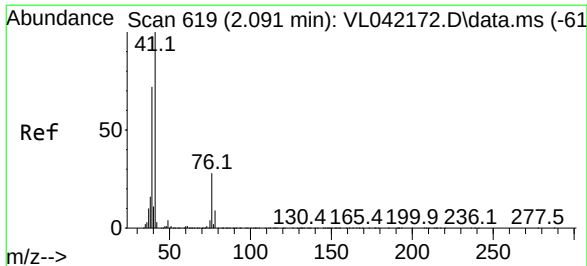
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#20  
Methylene Chloride  
Concen: 0.599 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

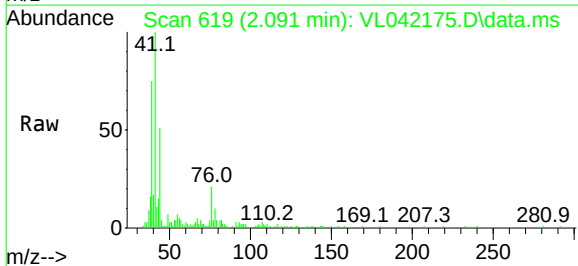
Tgt Ion: 84 Resp: 5634  
Ion Ratio Lower Upper  
84 100  
49 148.1 120.2 180.4  
51 56.1 37.4 56.0#  
86 55.6 52.4 78.6





#21  
Allyl Chloride  
Concen: 0.541 ppbv  
RT: 2.091 min Scan# 619  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

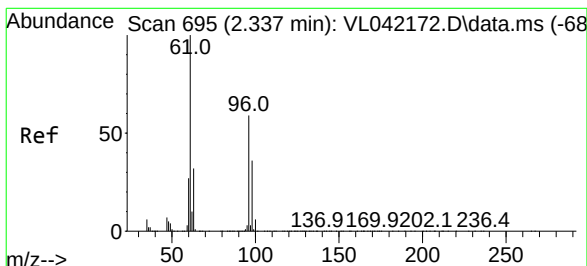
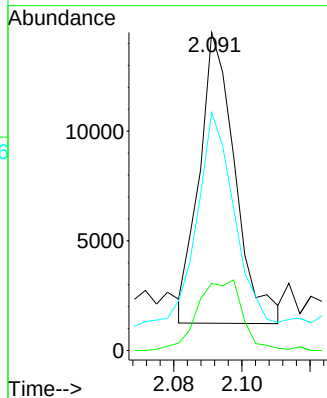
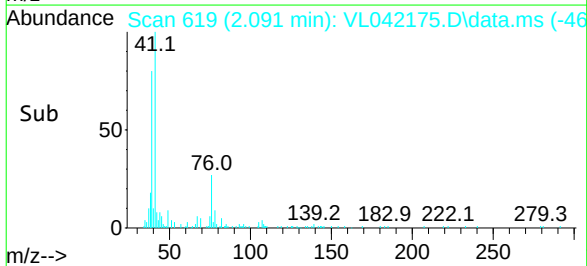
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



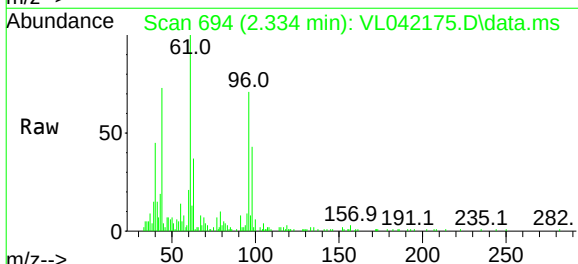
Tgt Ion: 41 Resp: 9632  
Ion Ratio Lower Upper  
41 100  
76 30.9 24.1 36.1  
39 88.9 61.1 91.7

Manual Integrations  
APPROVED

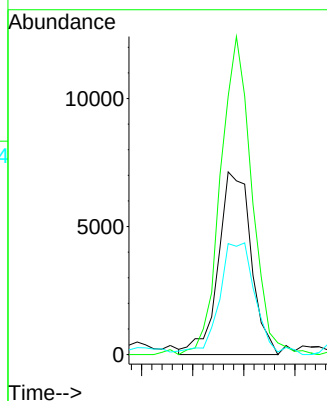
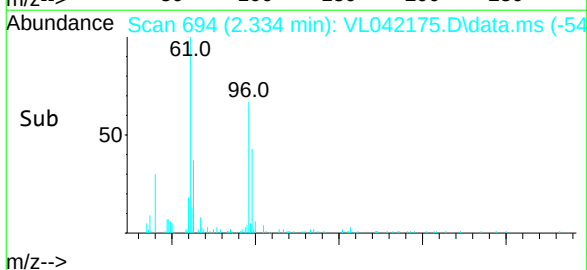
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

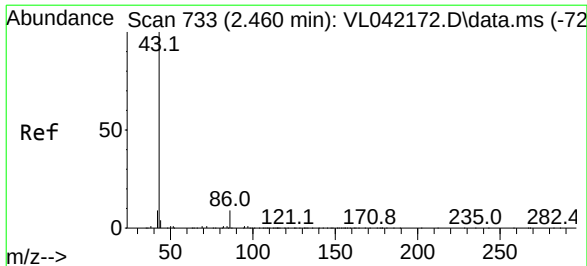


#22  
trans-1,2-Dichloroethene  
Concen: 0.546 ppbv  
RT: 2.334 min Scan# 694  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01



Tgt Ion: 96 Resp: 6353  
Ion Ratio Lower Upper  
96 100  
61 141.3 136.6 204.8  
98 59.4 49.4 74.2





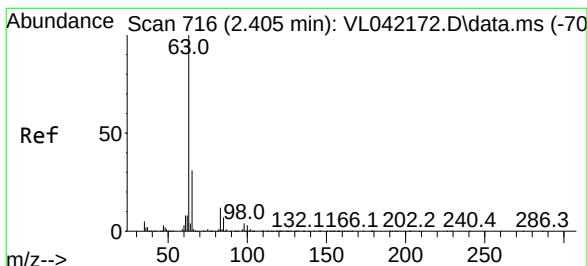
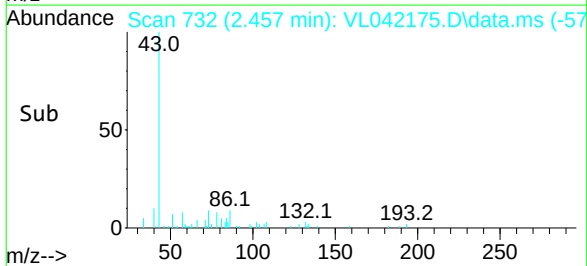
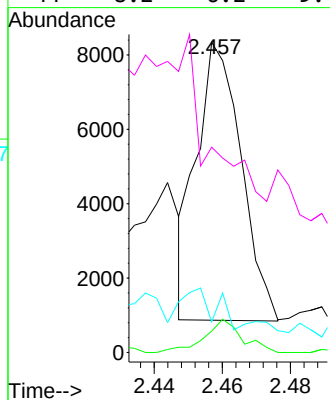
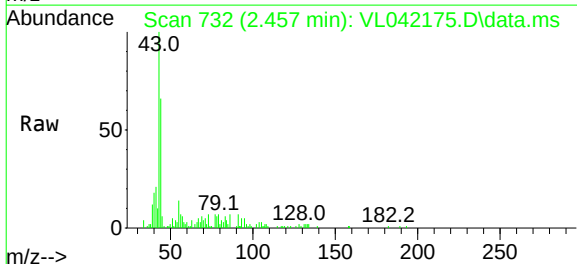
#23  
Vinyl Acetate  
Concen: 0.649 ppbv  
RT: 2.457 min Scan# 733  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 6809  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 86 7.7      | 5.5 8.3     |
| 42 3.2      | 8.6 13.0    |
| 44 8.2      | 6.2 9.4     |

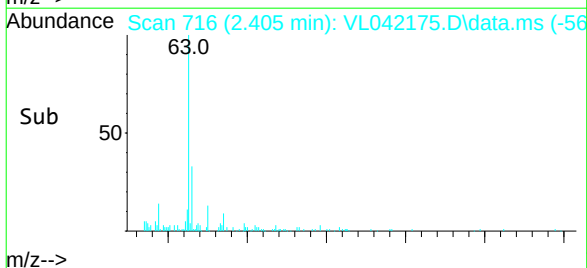
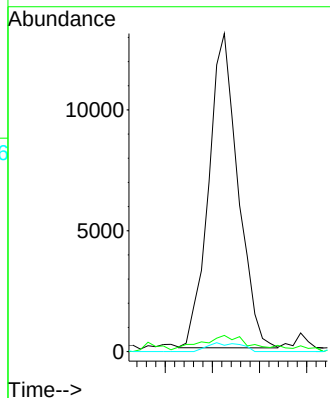
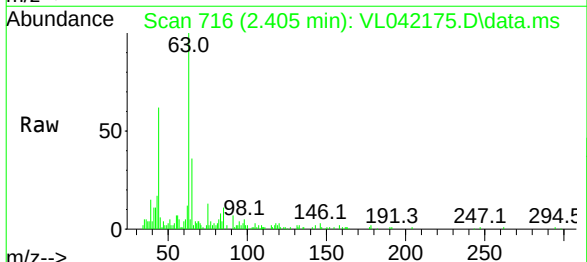
Manual Integrations  
APPROVED

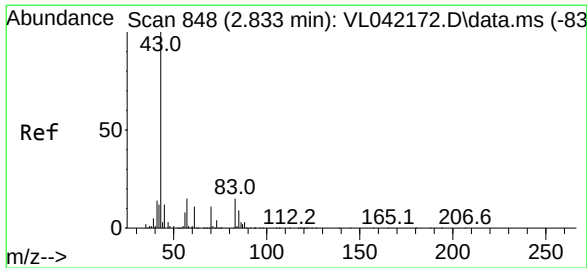
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#24  
1,1-Dichloroethane  
Concen: 0.527 ppbv  
RT: 2.405 min Scan# 716  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

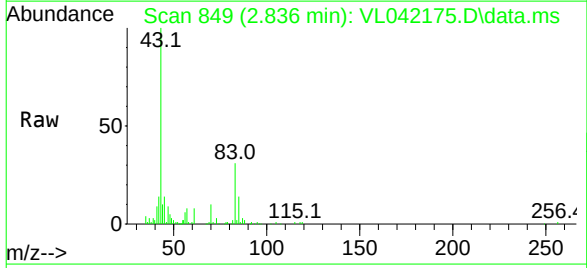
|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 11258 |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 98 3.7      | 2.3 6.8     |
| 100 2.0     | 1.6 4.7     |





#25  
Ethyl Acetate  
Concen: 0.553 ppbv  
RT: 2.836 min Scan# 848  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

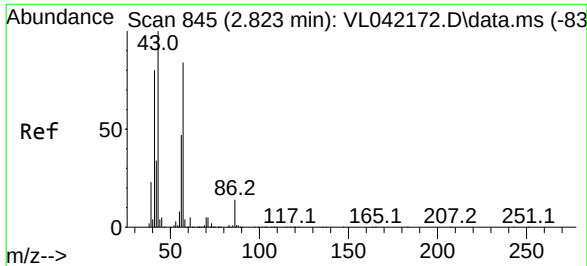
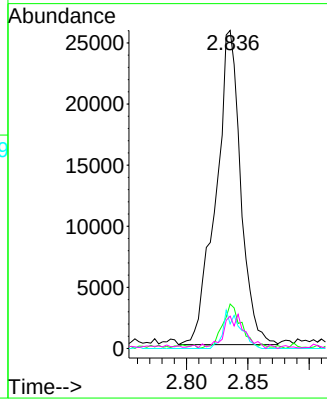
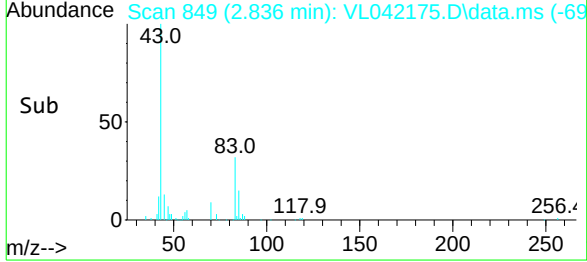
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



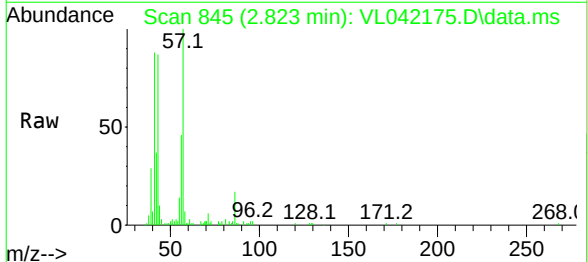
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 11.2  | 8.2   | 12.2  |
| 61      | 8.3   | 7.3   | 10.9  |
| 70      | 9.9   | 7.2   | 10.8  |

Manual Integrations  
APPROVED

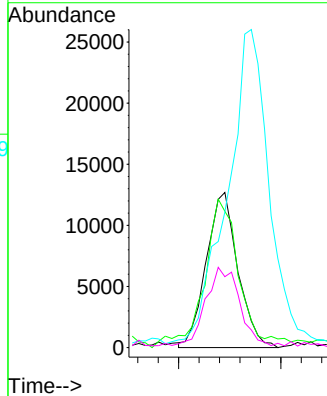
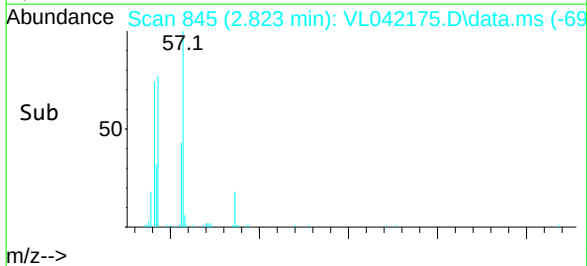
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

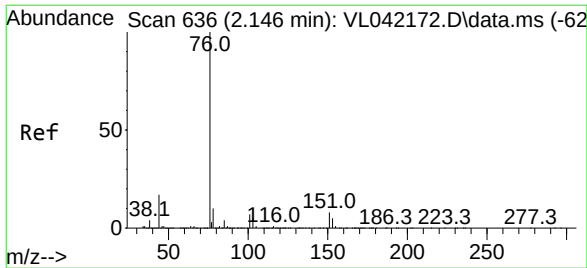


#26  
Hexane  
Concen: 0.538 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 92.1  | 76.6  | 114.8 |
| 43      | 273.4 | 207.8 | 311.8 |
| 56      | 64.6  | 43.6  | 65.4  |





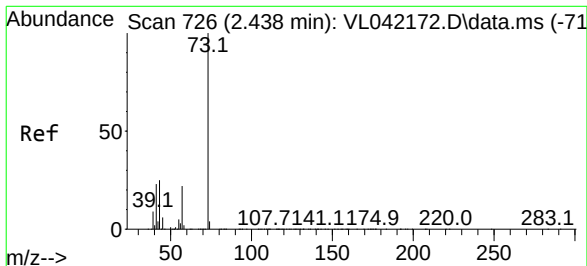
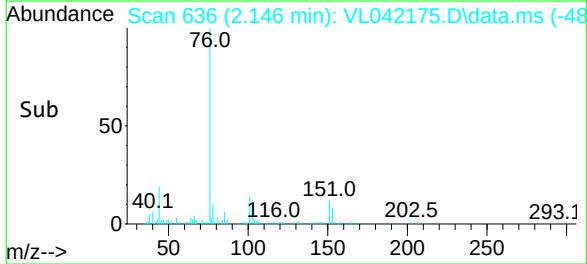
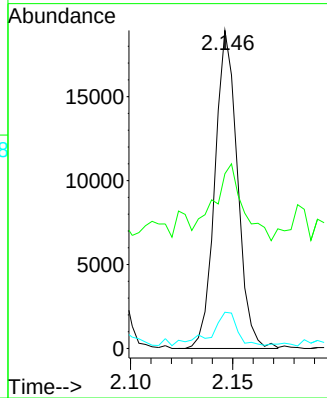
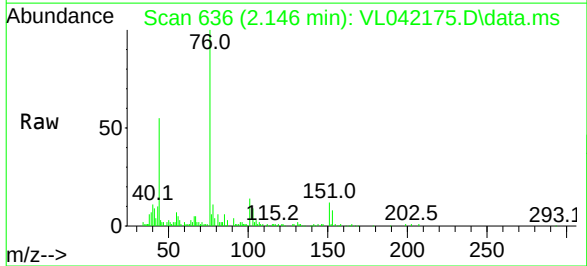
#27  
Carbon Disulfide  
Concen: 0.535 ppbv  
RT: 2.146 min Scan# 636  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 76 Resp: 14510  
Ion Ratio Lower Upper  
76 100  
44 115.5 14.7 22.1#  
78 14.9 9.3 13.9#

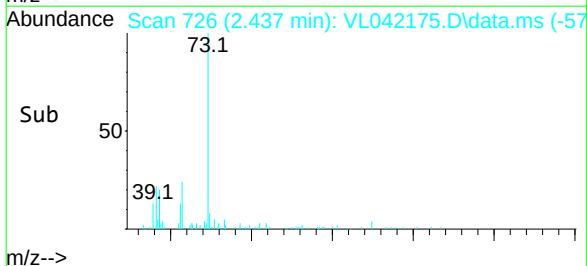
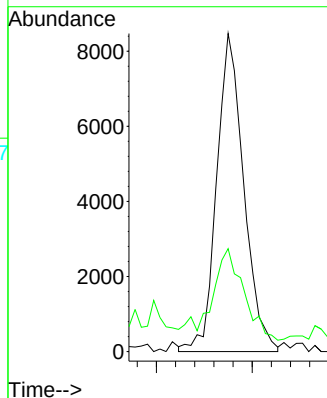
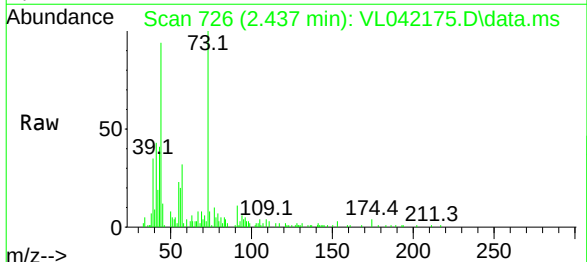
Manual Integrations  
APPROVED

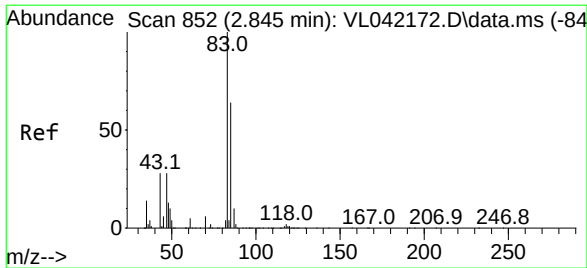
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#28  
Methyl tert-Butyl Ether  
Concen: 0.527 ppbv  
RT: 2.437 min Scan# 726  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 73 Resp: 8310  
Ion Ratio Lower Upper  
73 100  
57 31.1 20.5 30.7#





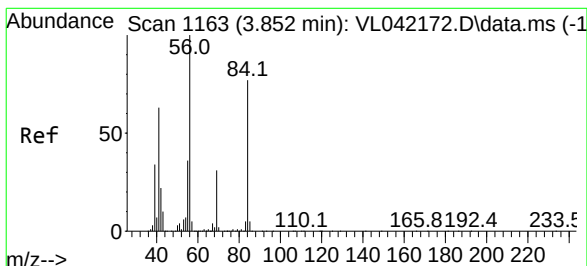
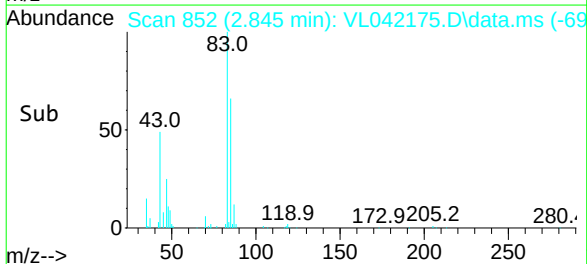
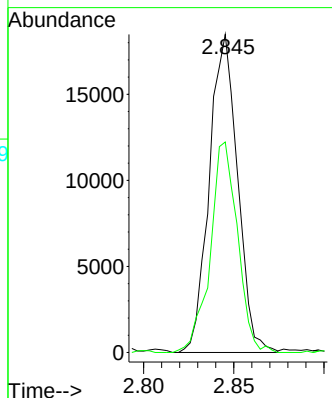
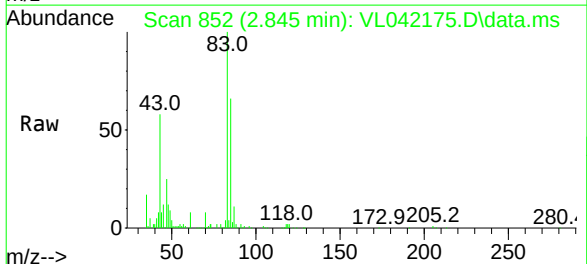
#29  
 Chloroform  
 Concen: 0.544 ppbv  
 RT: 2.845 min Scan# 85  
 Delta R.T. -0.000 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Tgt Ion: 83 Resp: 20149  
 Ion Ratio Lower Upper  
 83 100  
 85 66.2 51.4 77.2

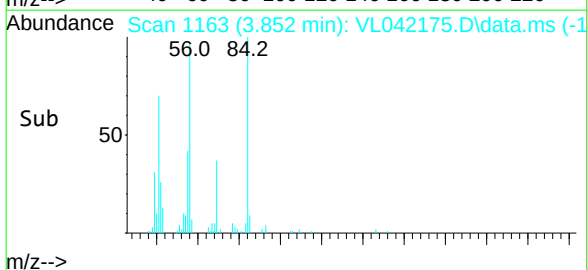
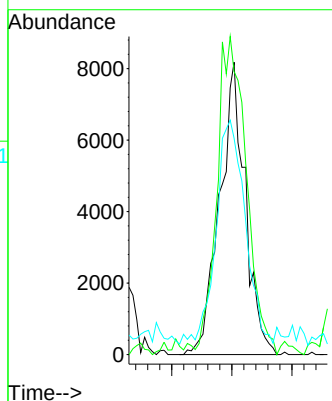
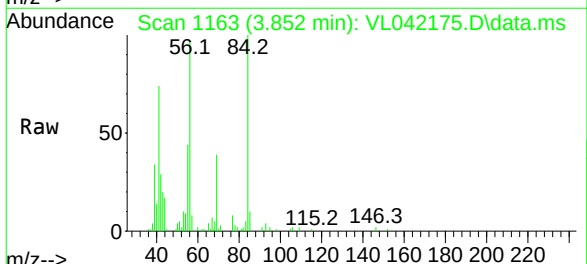
Manual Integrations  
 APPROVED

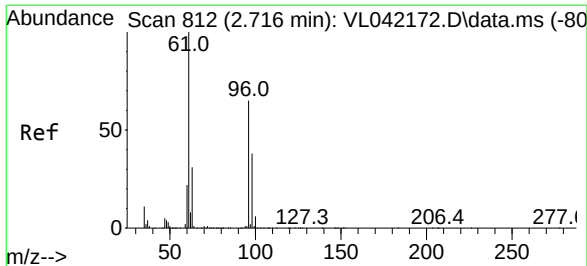
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#30  
 Cyclohexane  
 Concen: 0.549 ppbv m  
 RT: 3.852 min Scan# 1163  
 Delta R.T. -0.000 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

Tgt Ion: 84 Resp: 12063  
 Ion Ratio Lower Upper  
 84 100  
 56 126.3 102.8 154.2  
 41 93.5 66.5 99.7





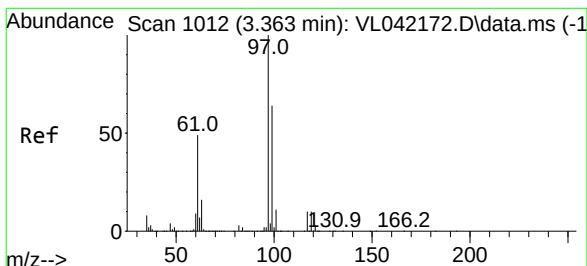
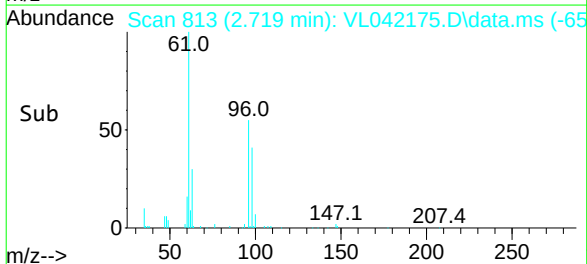
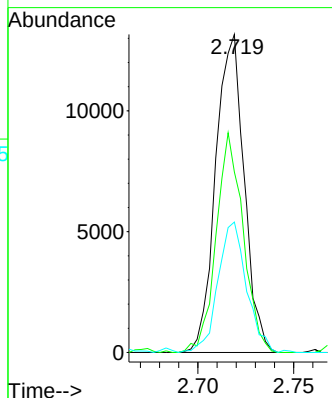
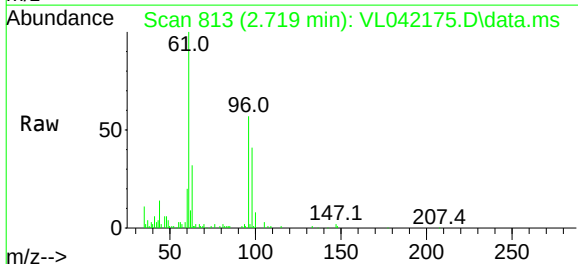
#31  
cis-1,2-Dichloroethene  
Concen: 0.529 ppbv  
RT: 2.719 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 61    | Resp: | 13601 |
| Ion      | Ratio | Lower | Upper |
| 61       | 100   |       |       |
| 96       | 56.8  | 51.8  | 77.8  |
| 98       | 41.0  | 30.6  | 46.0  |

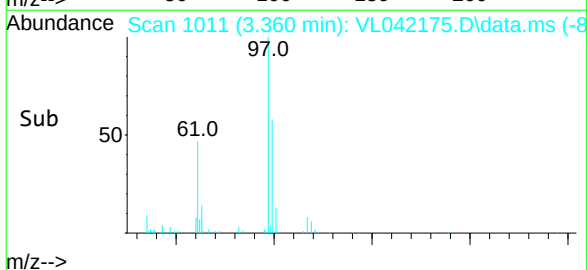
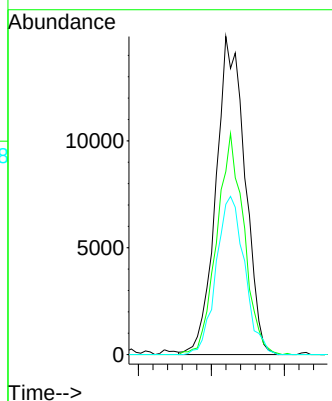
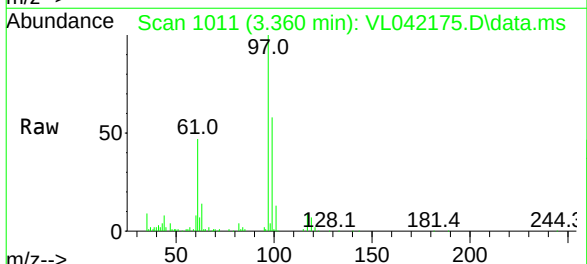
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

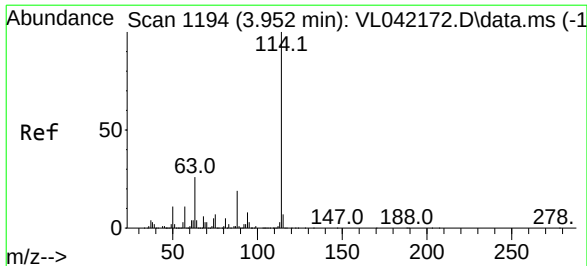


#32  
1,1,1-Trichloroethane  
Concen: 0.485 ppbv  
RT: 3.360 min Scan# 1011  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 20567 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 64.8  | 51.5  | 77.3  |
| 61       | 48.6  | 38.7  | 58.1  |

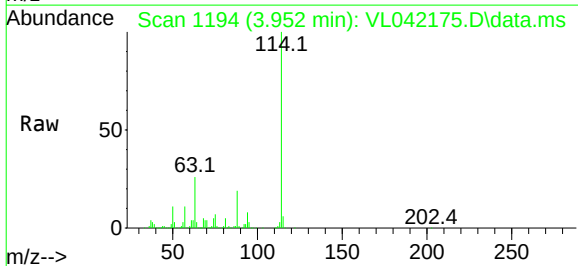






#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.952 min Scan# 111  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

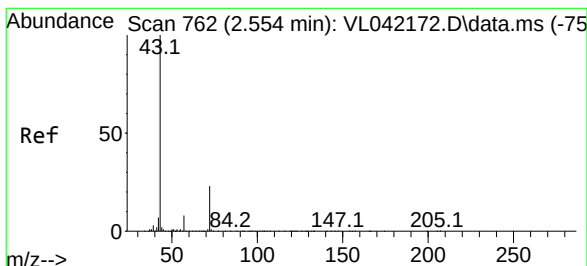
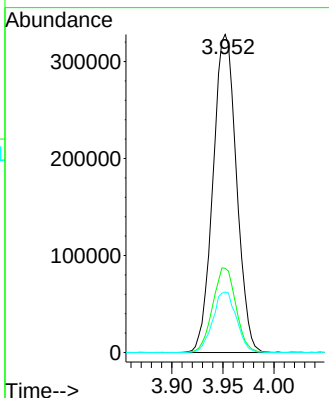
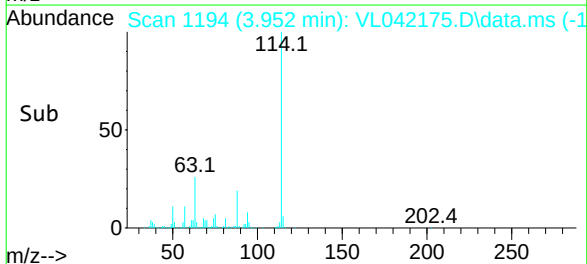
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



Tgt Ion: 114 Resp: 523832  
Ion Ratio Lower Upper  
114 100  
63 26.4 20.7 31.1  
88 19.1 15.0 22.4

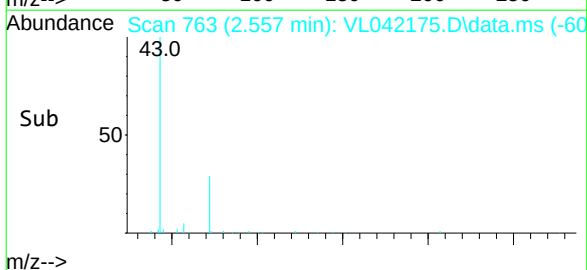
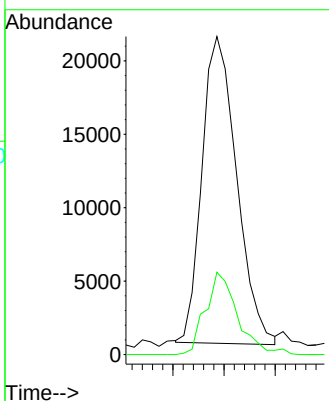
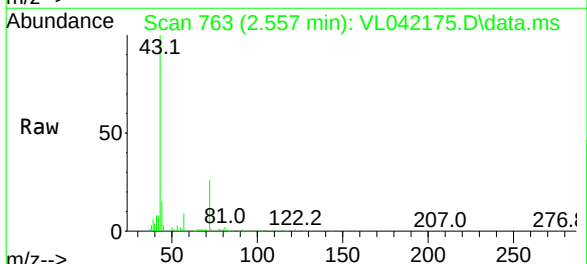
Manual Integrations  
APPROVED

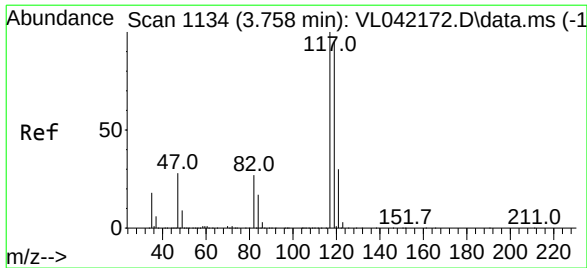
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#34  
2-Butanone  
Concen: 0.520 ppbv  
RT: 2.557 min Scan# 763  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

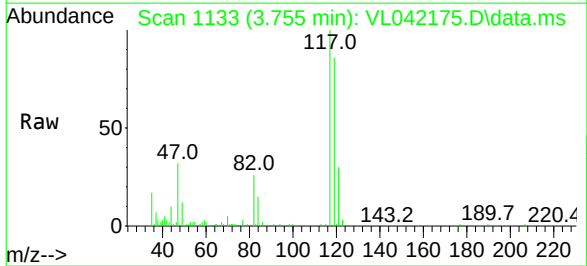
Tgt Ion: 43 Resp: 19739  
Ion Ratio Lower Upper  
43 100  
72 24.8 18.2 27.2





#35  
Carbon Tetrachloride  
Concen: 0.460 ppbv  
RT: 3.755 min Scan# 111  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

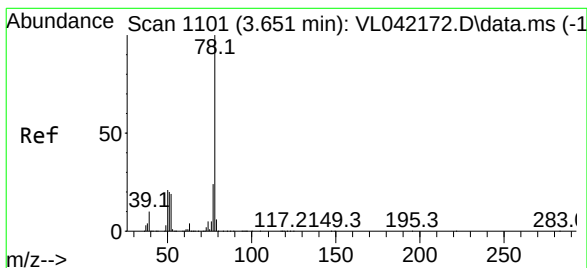
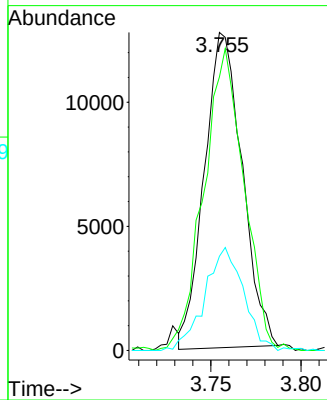
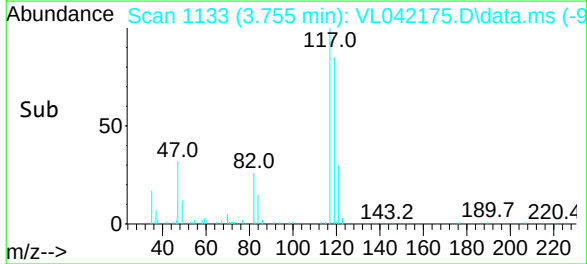
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5



Tgt Ion: 117 Resp: 18558  
Ion Ratio Lower Upper  
117 100  
119 86.4 76.2 114.2  
121 30.1 24.2 36.4

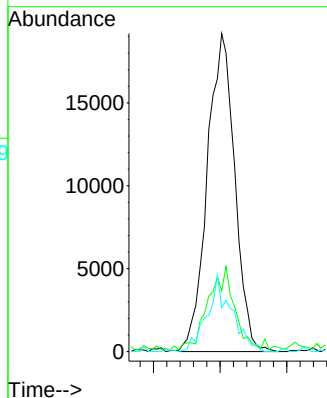
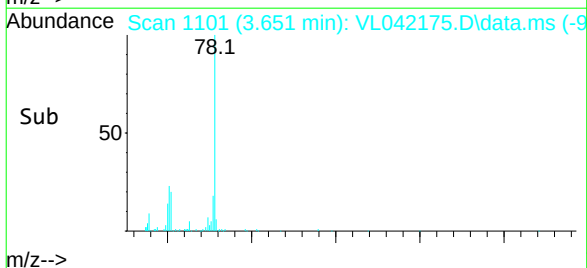
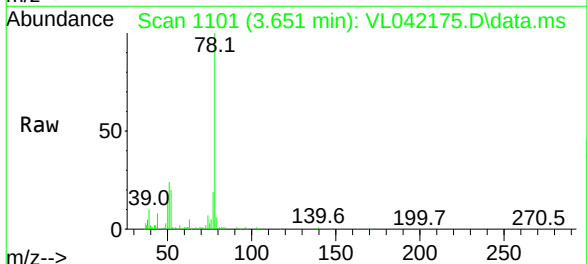
Manual Integrations  
APPROVED

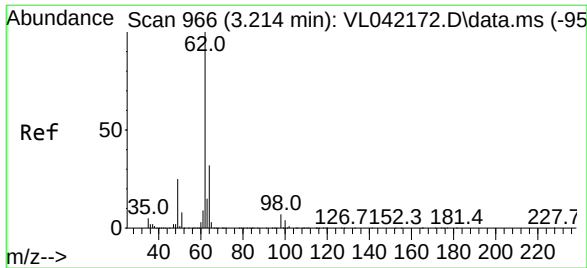
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025



#36  
Benzene  
Concen: 0.529 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 78 Resp: 27488  
Ion Ratio Lower Upper  
78 100  
77 18.5 19.1 28.7#  
50 13.9 16.6 24.8#





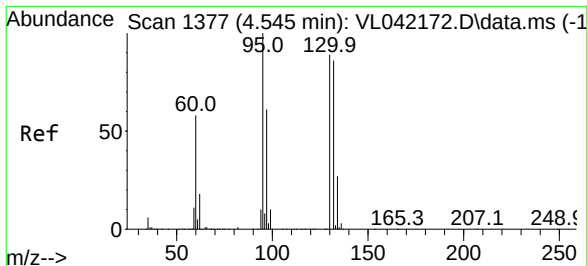
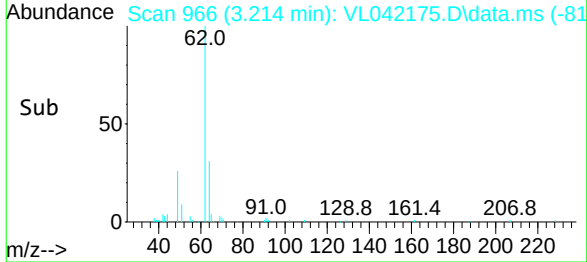
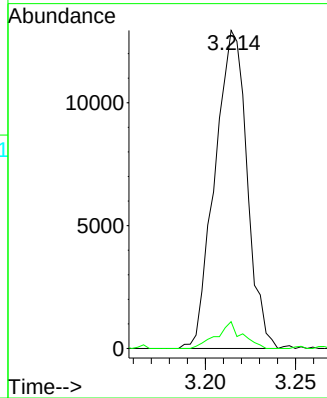
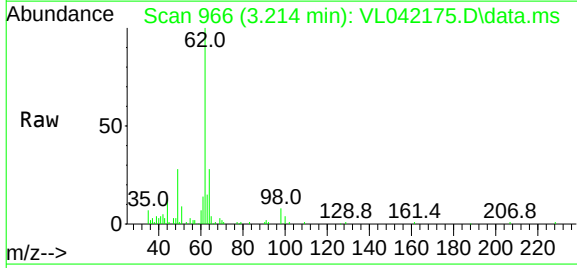
#37  
1,2-Dichloroethane  
Concen: 0.540 ppbv  
RT: 3.214 min Scan# 96  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 62 Resp: 16062  
Ion Ratio Lower Upper  
62 100  
98 7.0 5.4 8.2

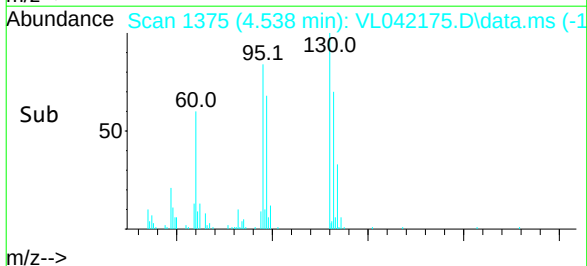
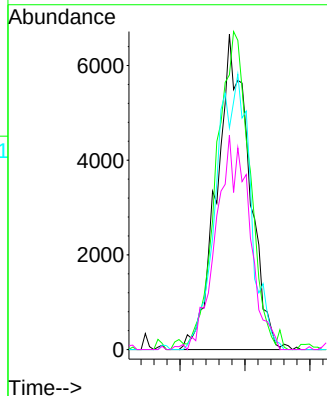
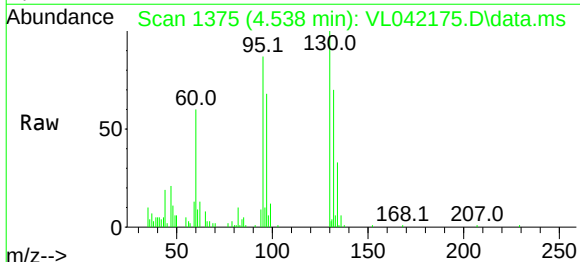
Manual Integrations  
APPROVED

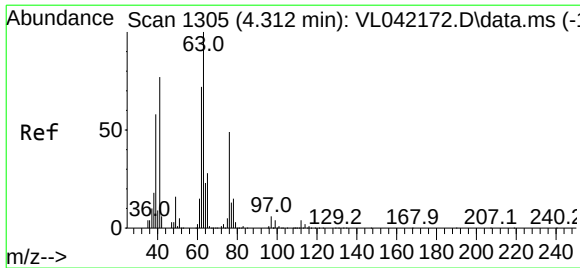
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#38  
Trichloroethene  
Concen: 0.529 ppbv m  
RT: 4.538 min Scan# 1375  
Delta R.T. -0.007 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

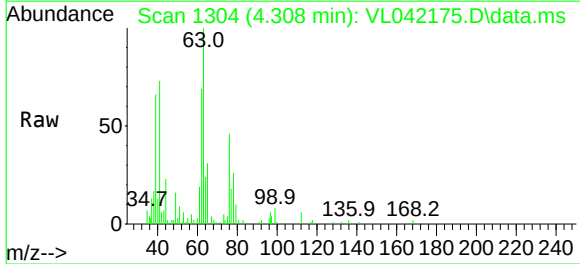
Tgt Ion:130 Resp: 11460  
Ion Ratio Lower Upper  
130 100  
95 87.1 89.8 134.8#  
132 70.3 77.4 116.2#  
97 68.0 55.1 82.7





#39  
1,2-Dichloropropane  
Concen: 0.535 ppbv  
RT: 4.308 min Scan# 1305  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

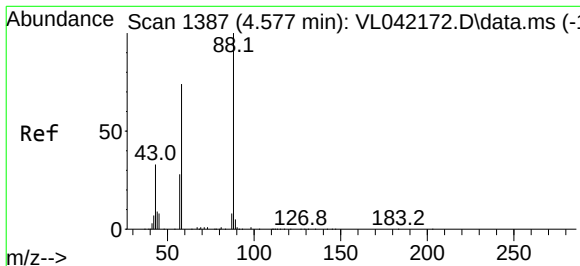
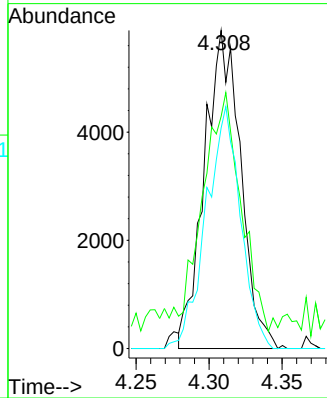
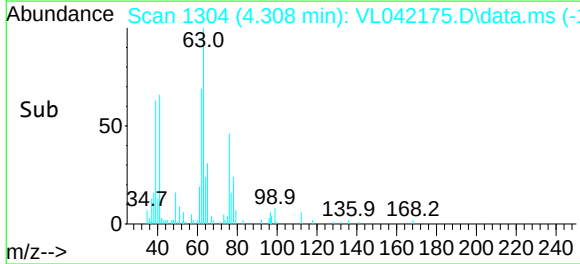
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



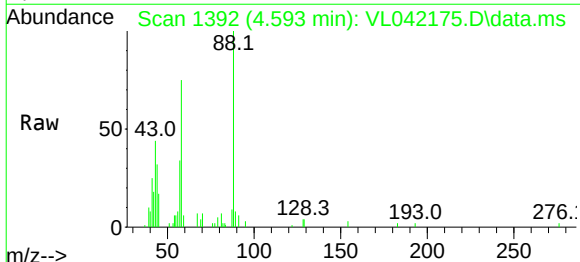
Tgt Ion: 63 Resp: 10123  
Ion Ratio Lower Upper  
63 100  
41 66.4 61.7 92.5  
62 69.3 57.6 86.4

Manual Integrations  
APPROVED

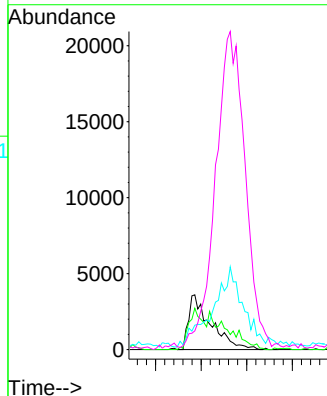
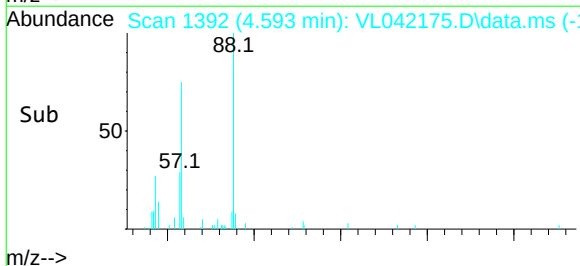
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

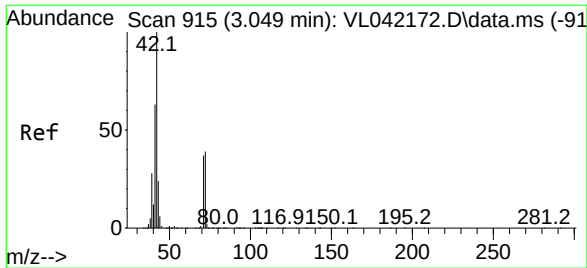


#40  
1,4-Dioxane  
Concen: 0.624 ppbv m  
RT: 4.593 min Scan# 1392  
Delta R.T. 0.016 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01



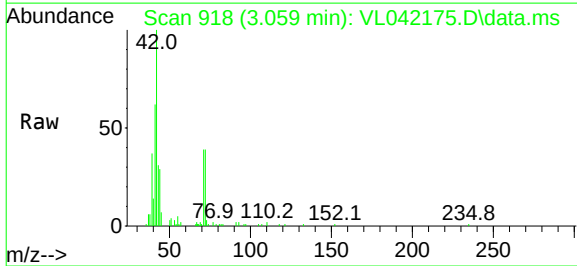
Tgt Ion: 88 Resp: 6121  
Ion Ratio Lower Upper  
88 100  
58 111.2 62.7 94.1#  
43 0.0 23.0 34.4#  
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 0.533 ppbv m  
RT: 3.059 min Scan# 915  
Delta R.T. 0.010 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

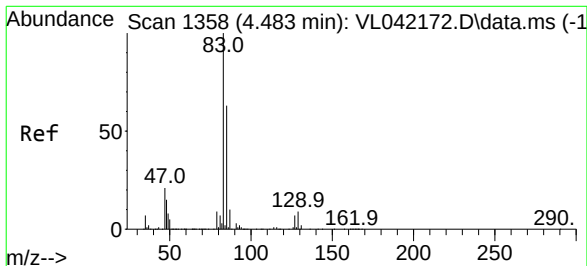
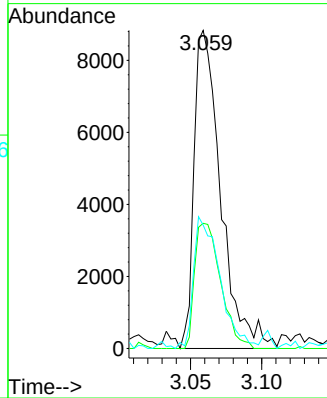
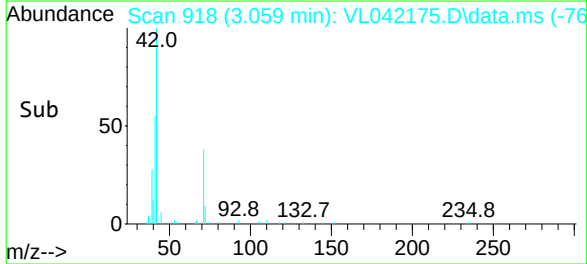
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



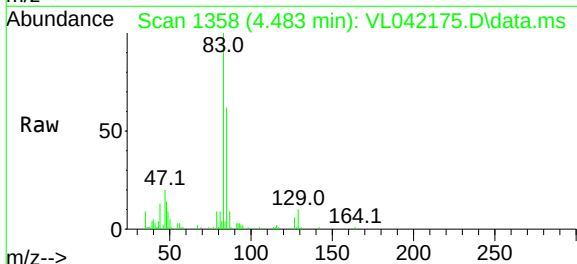
Tgt Ion: 42 Resp: 11509  
Ion Ratio Lower Upper  
42 100  
72 38.4 31.4 47.0  
71 40.7 30.2 45.4

Manual Integrations  
APPROVED

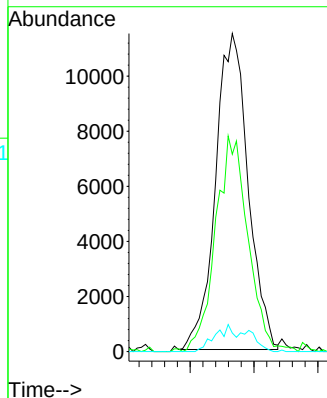
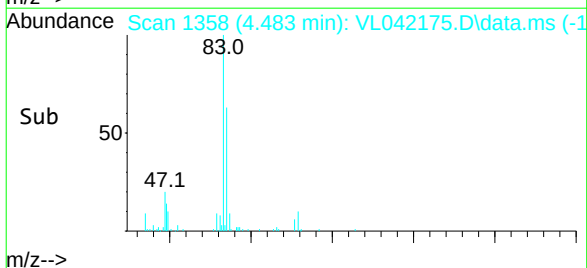
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

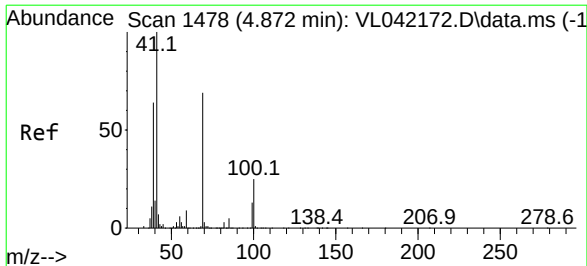


#42  
Bromodichloromethane  
Concen: 0.497 ppbv  
RT: 4.483 min Scan# 1358  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01



Tgt Ion: 83 Resp: 20374  
Ion Ratio Lower Upper  
83 100  
85 61.6 50.5 75.7  
127 5.9 5.9 8.9#





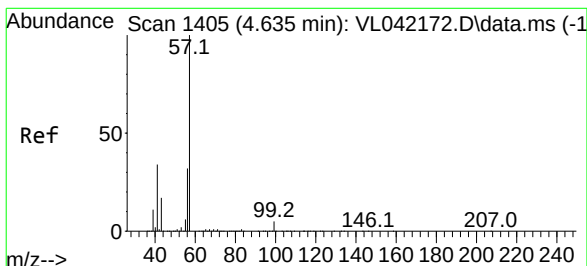
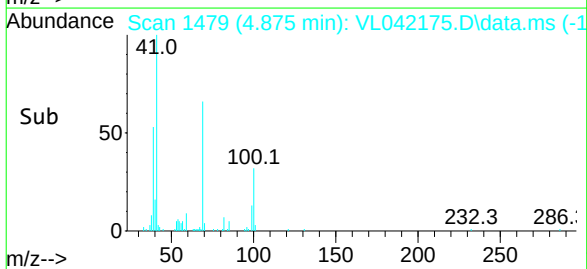
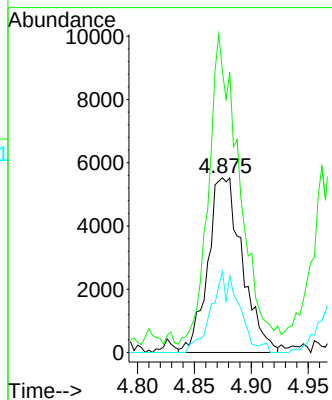
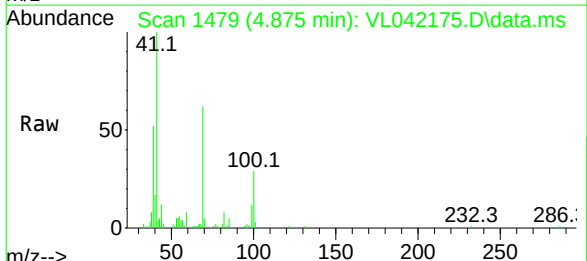
#43  
Methyl Methacrylate  
Concen: 0.528 ppbv  
RT: 4.875 min Scan# 1478  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 69  | 100   |       |       |       |
| 41  | 150.3 | 123.8 | 185.6 |       |
| 100 | 37.9  | 28.4  | 42.6  |       |

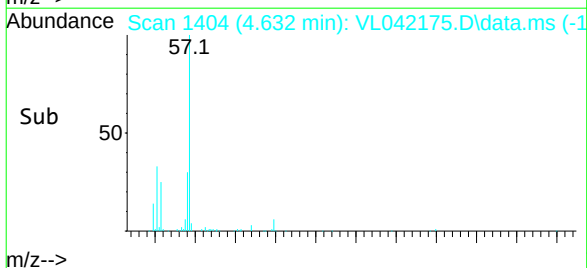
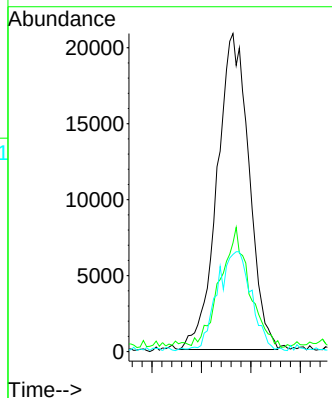
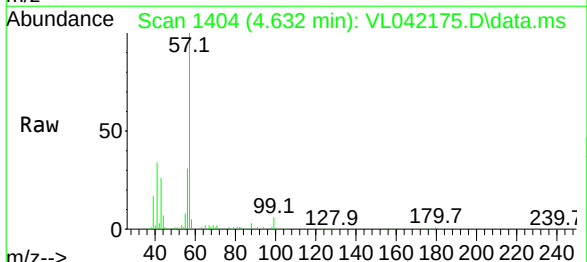
Manual Integrations  
APPROVED

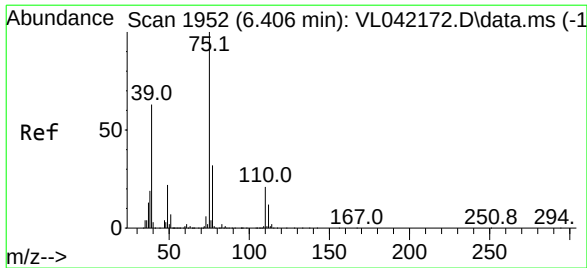
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#44  
2,2,4-Trimethylpentane  
Concen: 0.532 ppbv  
RT: 4.632 min Scan# 1404  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

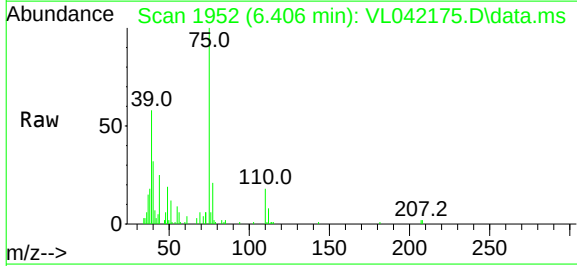
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 57  | 100  |       |       |       |
| 41  | 36.7 | 26.8  | 40.2  |       |
| 56  | 34.3 | 25.6  | 38.4  |       |





#45  
t-1,3-Dichloropropene  
Concen: 0.526 ppbv  
RT: 6.406 min Scan# 1952  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

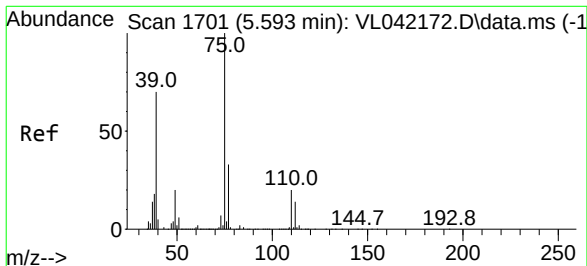
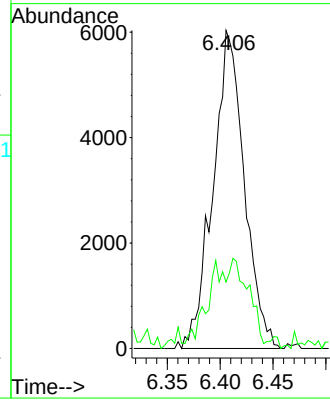
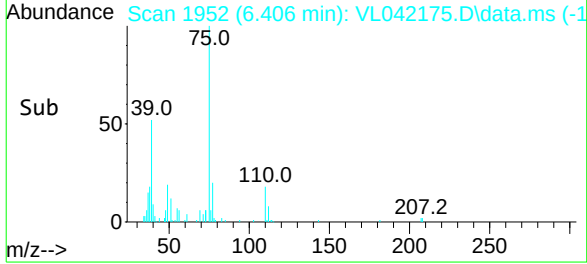
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5



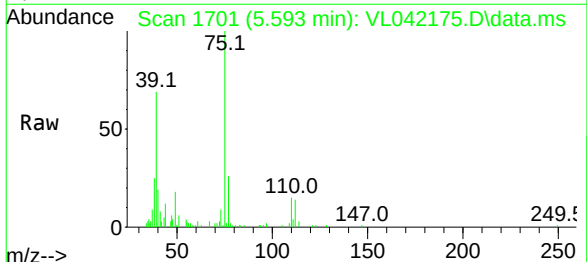
Tgt Ion: 75 Resp: 12404  
Ion Ratio Lower Upper  
75 100  
77 20.9 26.0 39.0#

Manual Integrations  
APPROVED

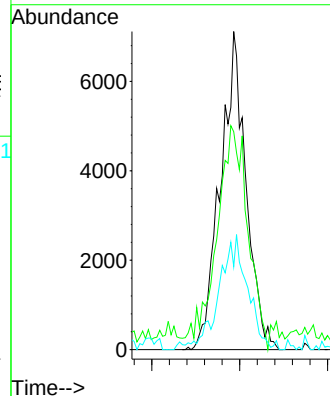
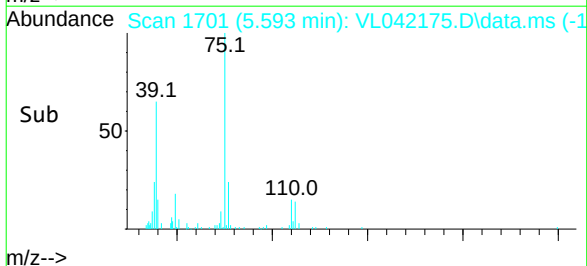
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

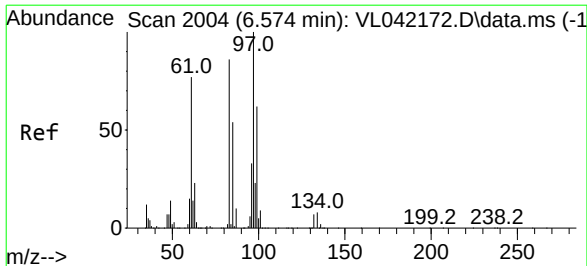


#46  
cis-1,3-Dichloropropene  
Concen: 0.497 ppbv m  
RT: 5.593 min Scan# 1701  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01



Tgt Ion: 75 Resp: 14374  
Ion Ratio Lower Upper  
75 100  
39 68.5 55.8 83.6  
77 26.1 26.0 39.0





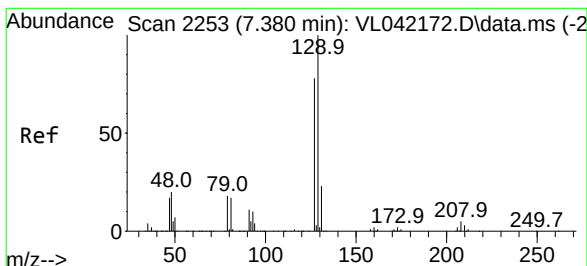
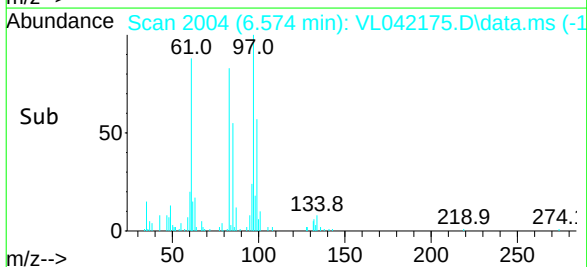
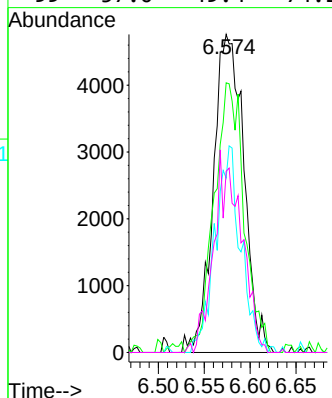
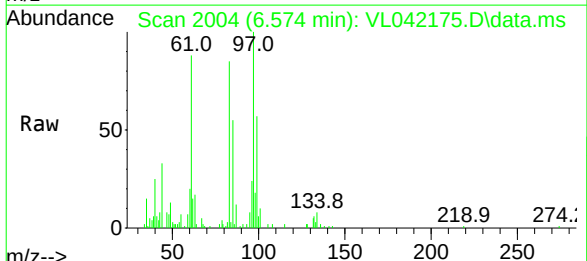
#47  
1,1,2-Trichloroethane  
Concen: 0.549 ppbv m  
RT: 6.574 min Scan# 2004  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 10972 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 84.8  | 69.2  | 103.8 |
| 85       | 54.9  | 43.1  | 64.7  |
| 99       | 57.0  | 49.4  | 74.2  |

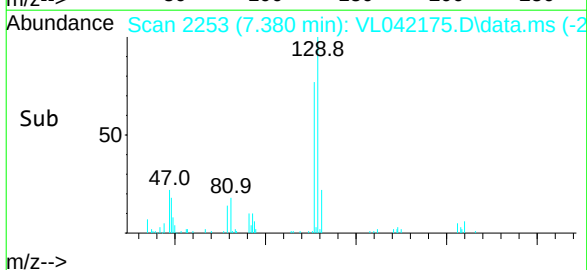
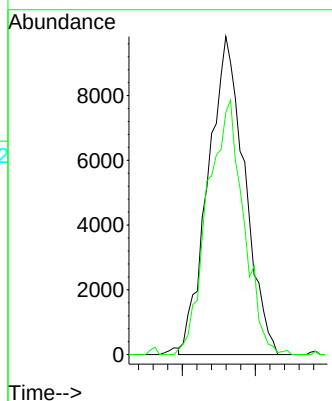
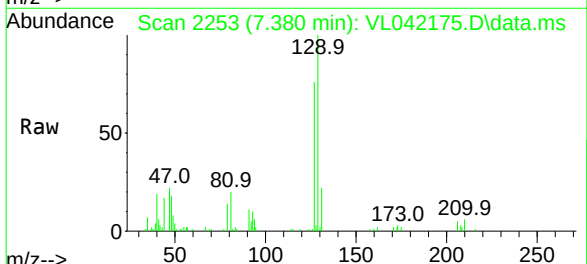
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

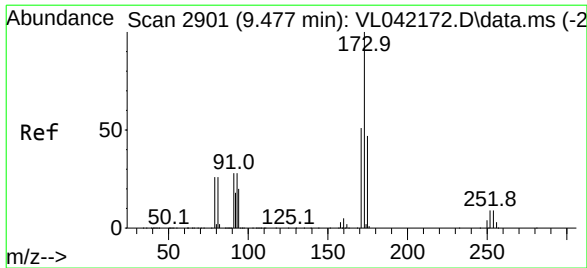


#48  
Dibromochloromethane  
Concen: 0.503 ppbv  
RT: 7.380 min Scan# 2253  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 17042 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 79.4  | 39.1  | 117.2 |







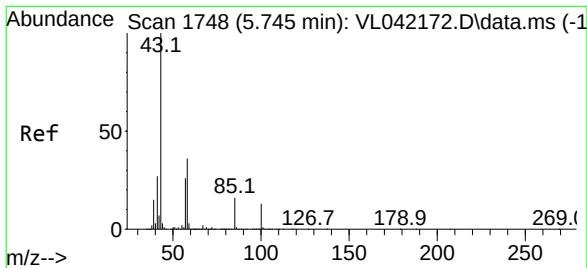
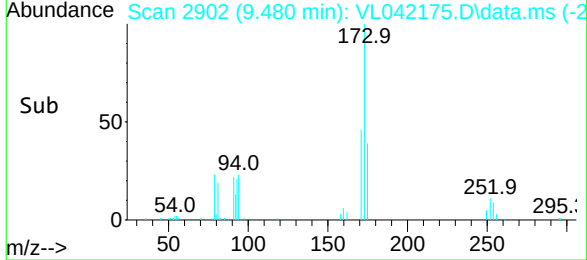
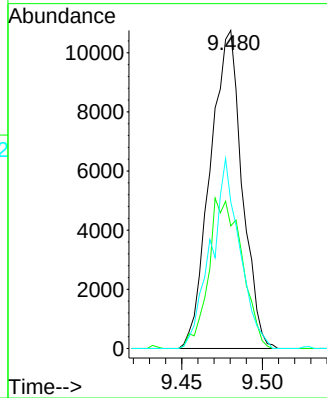
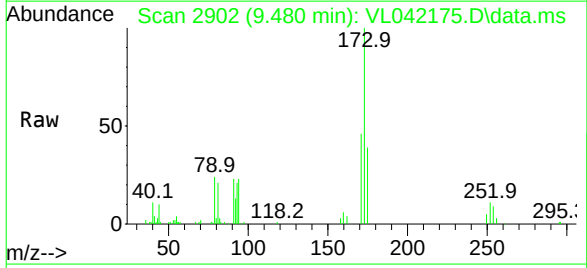
#49  
Bromoform  
Concen: 0.487 ppbv  
RT: 9.480 min Scan# 2901  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 173 Resp: 14828  
Ion Ratio Lower Upper  
173 100  
175 49.7 38.6 57.8  
171 53.8 41.8 62.6

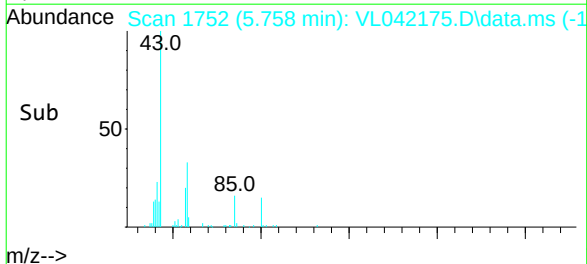
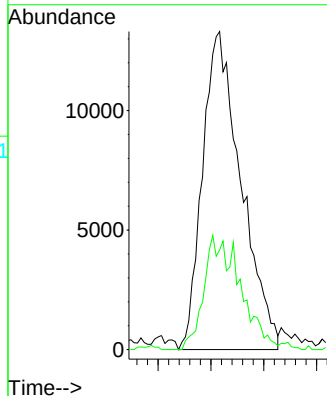
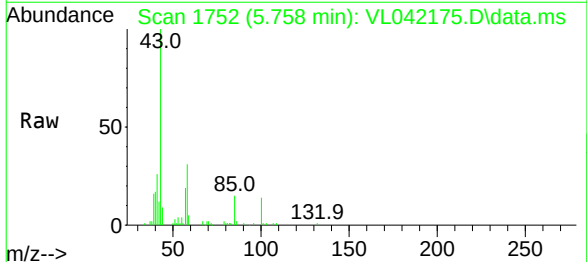
Manual Integrations  
APPROVED

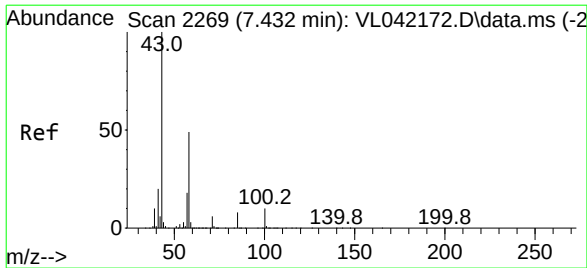
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025



#50  
4-Methyl-2-Pentanone  
Concen: 0.559 ppbv  
RT: 5.758 min Scan# 1752  
Delta R.T. 0.013 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

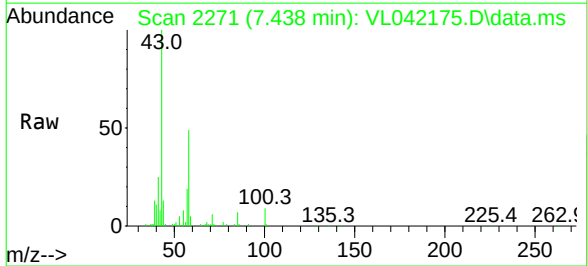
Tgt Ion: 43 Resp: 33674  
Ion Ratio Lower Upper  
43 100  
58 34.4 29.0 43.6





#51  
2-Hexanone  
Concen: 0.523 ppbv  
RT: 7.438 min Scan# 2269  
Delta R.T. 0.006 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

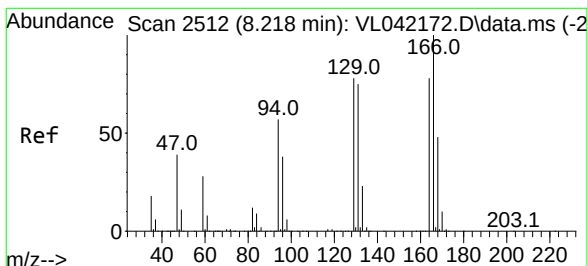
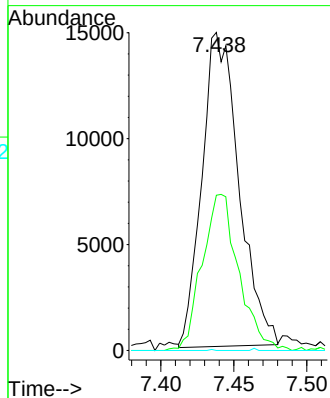
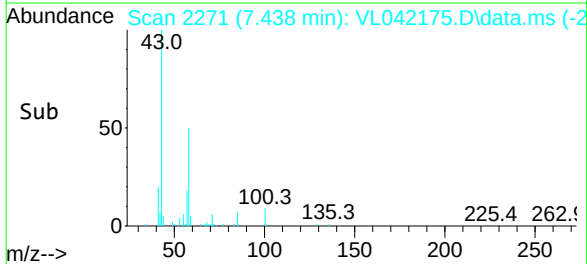
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



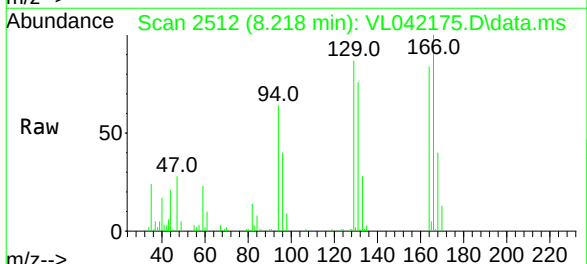
Tgt Ion: 43 Resp: 26154  
Ion Ratio Lower Upper  
43 100  
58 49.8 39.7 59.5  
98 0.0 0.1 0.1

Manual Integrations  
APPROVED

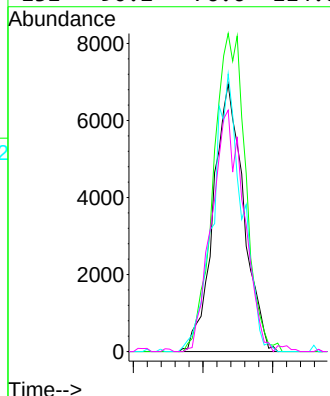
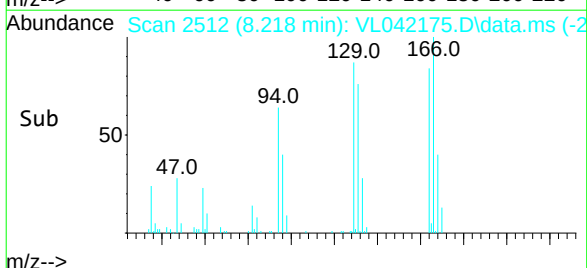
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

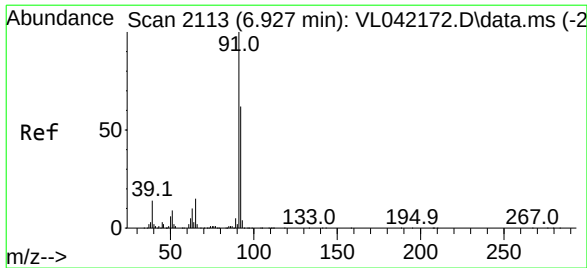


#52  
Tetrachloroethene  
Concen: 0.510 ppbv  
RT: 8.218 min Scan# 2512  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01



Tgt Ion:164 Resp: 10502  
Ion Ratio Lower Upper  
164 100  
166 118.9 102.5 153.7  
129 103.8 79.8 119.8  
131 90.2 76.6 114.8





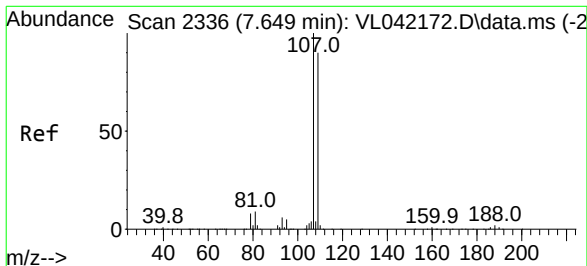
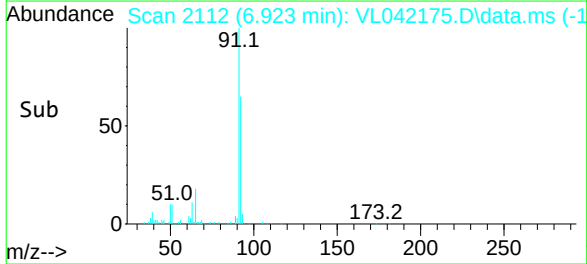
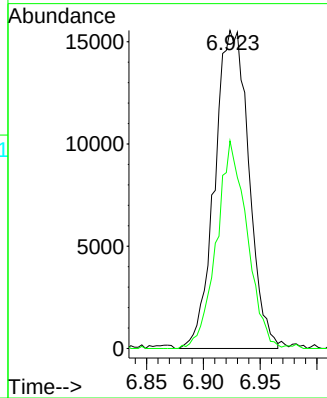
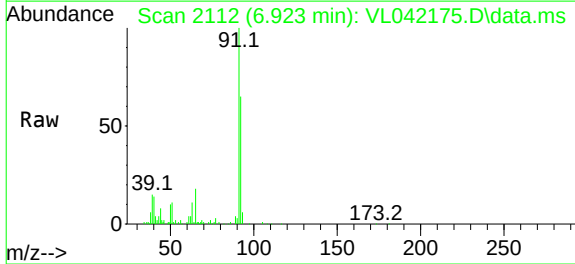
#53  
Toluene  
Concen: 0.527 ppbv  
RT: 6.923 min Scan# 2112  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 91 Resp: 32444  
Ion Ratio Lower Upper  
91 100  
92 58.9 48.4 72.6

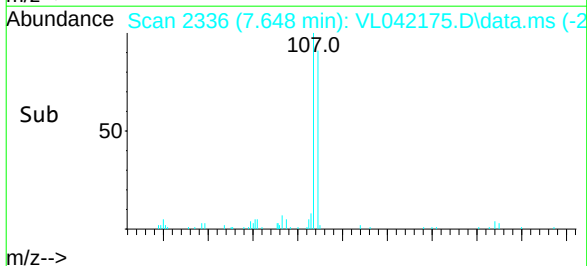
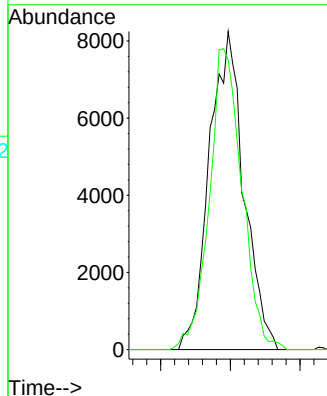
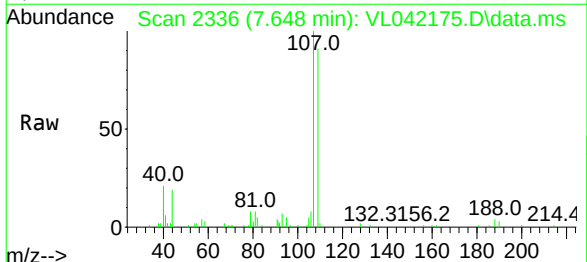
Manual Integrations  
APPROVED

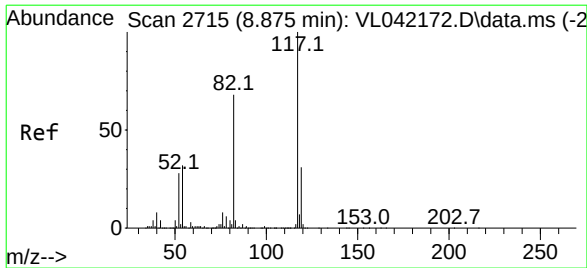
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#54  
1,2-Dibromoethane  
Concen: 0.510 ppbv  
RT: 7.648 min Scan# 2336  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

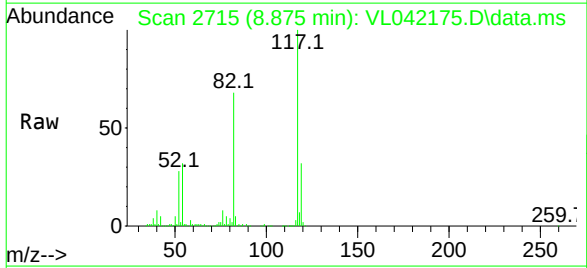
Tgt Ion:107 Resp: 14220  
Ion Ratio Lower Upper  
107 100  
109 89.1 72.2 108.4





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.875 min Scan# 2715  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

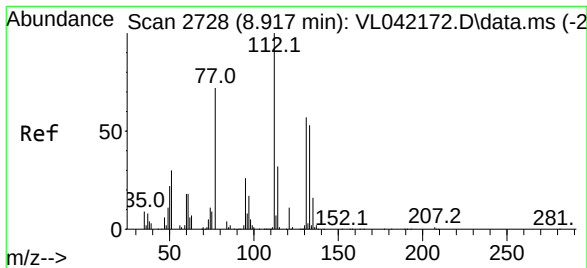
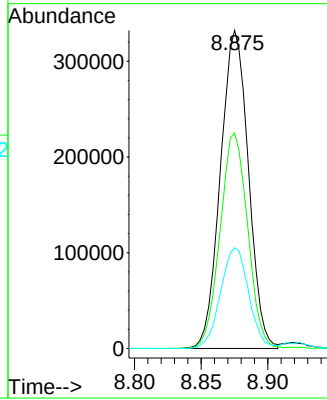
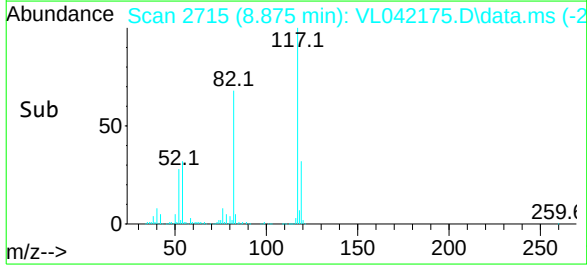
Instrument : MSVOA\_1  
ClientSampleId : VSTDIC0.5



Tgt Ion: 117 Resp: 485078  
Ion Ratio Lower Upper  
117 100  
82 67.0 55.8 83.6  
119 33.7 25.5 38.3

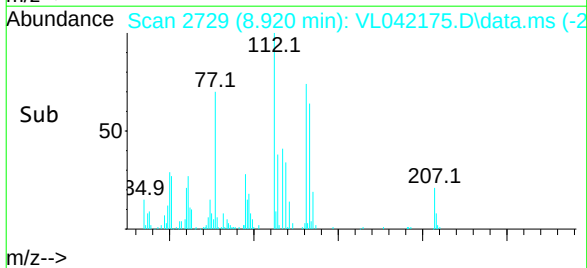
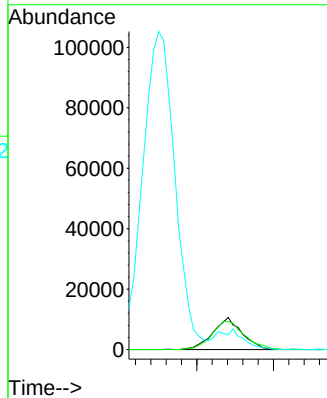
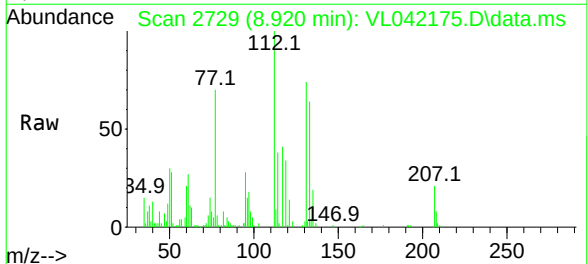
Manual Integrations  
APPROVED

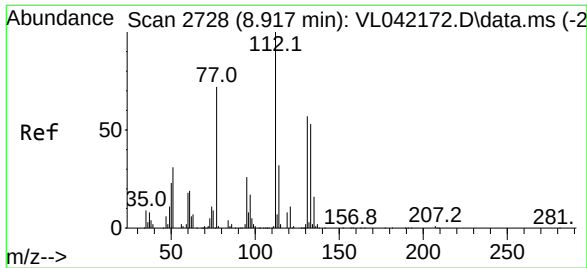
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.523 ppbv  
RT: 8.920 min Scan# 2729  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

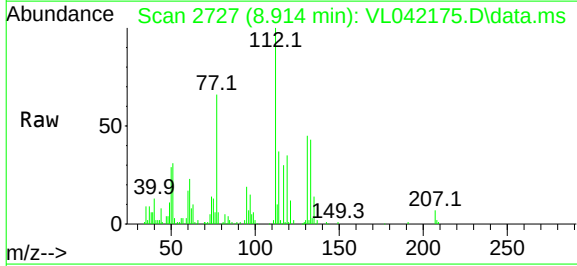
Tgt Ion: 131 Resp: 13959  
Ion Ratio Lower Upper  
131 100  
133 99.6 76.6 114.8  
119 1170.3 49.8 74.6#





#57  
Chlorobenzene  
Concen: 0.540 ppbv  
RT: 8.914 min Scan# 2728  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

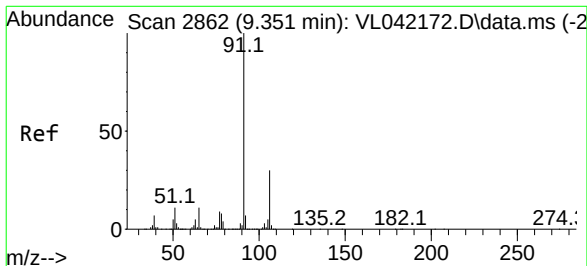
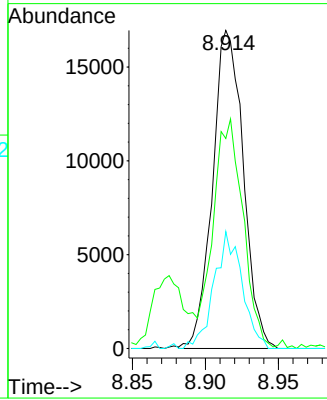
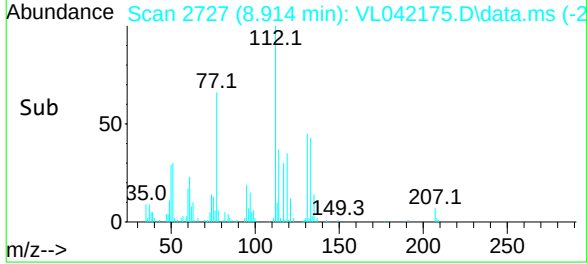
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



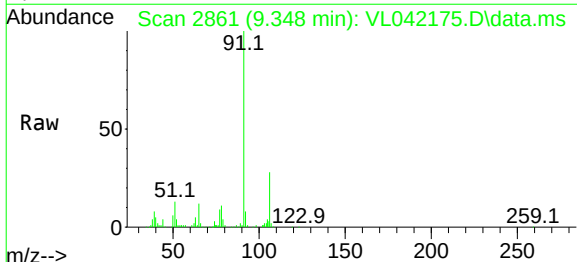
Tgt Ion: 112 Resp: 24826  
Ion Ratio Lower Upper  
112 100  
77 65.1 58.2 87.2  
114 36.8 29.1 35.5#

Manual Integrations  
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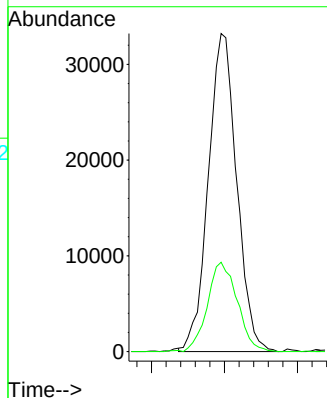
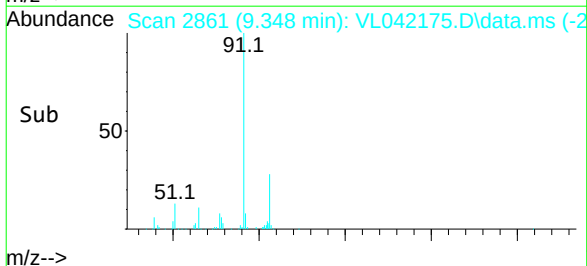
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

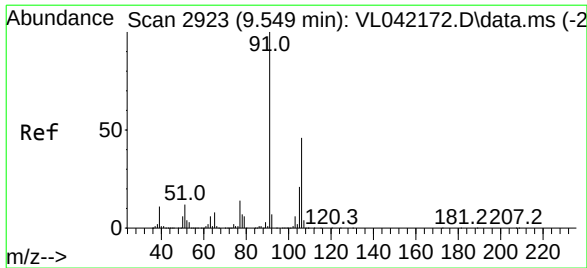


#58  
Ethyl Benzene  
Concen: 0.521 ppbv  
RT: 9.348 min Scan# 2861  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01



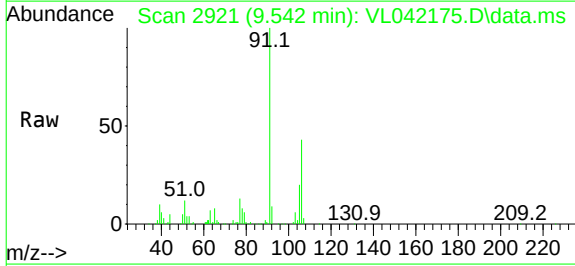
Tgt Ion: 91 Resp: 44862  
Ion Ratio Lower Upper  
91 100  
106 28.1 24.2 36.2





#59  
m/p-Xylene  
Concen: 1.060 ppbv m  
RT: 9.542 min Scan# 29  
Delta R.T. -0.007 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

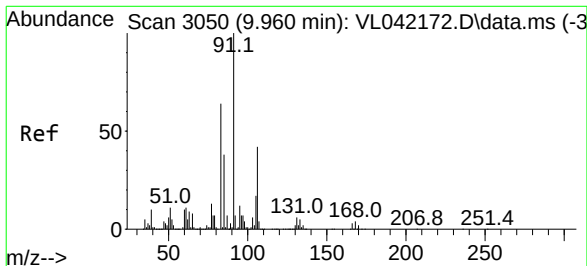
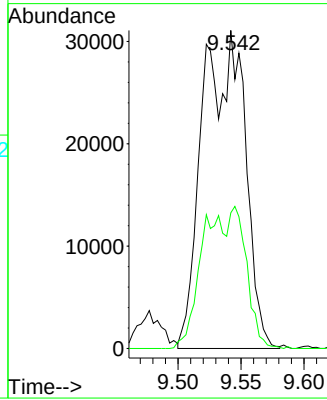
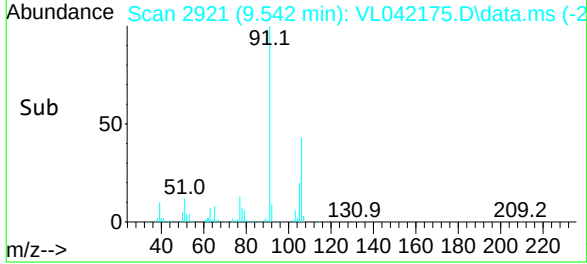
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



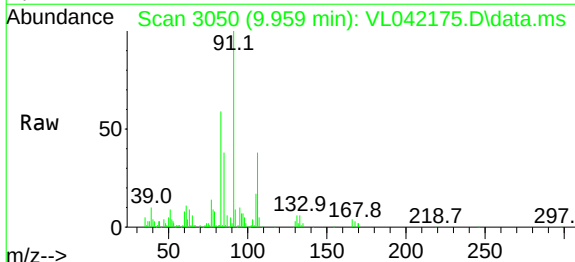
Tgt Ion: 91 Resp: 73028  
Ion Ratio Lower Upper  
91 100  
106 45.2 36.4 54.6

Manual Integrations  
APPROVED

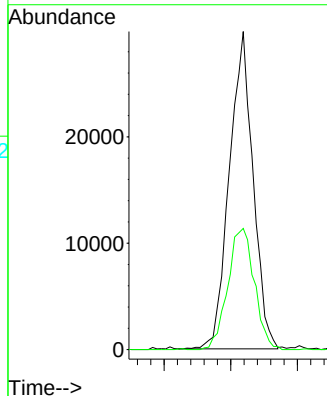
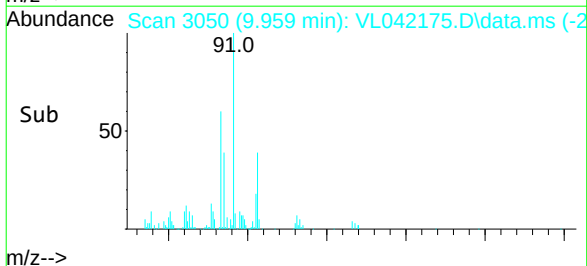
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

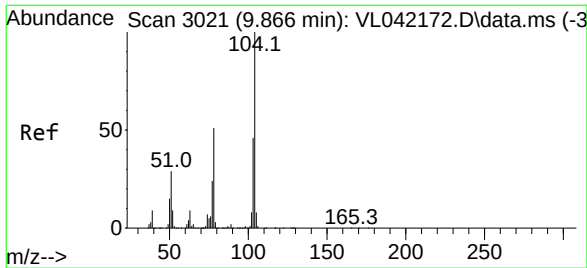


#60  
o-Xylene  
Concen: 0.535 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01



Tgt Ion: 91 Resp: 36879  
Ion Ratio Lower Upper  
91 100  
106 42.7 20.8 62.5





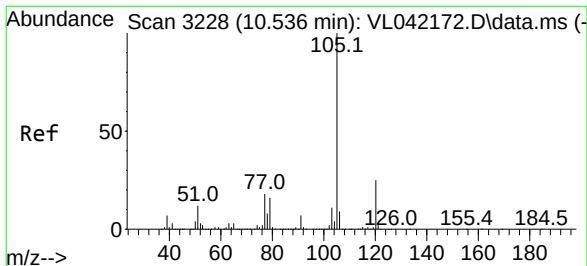
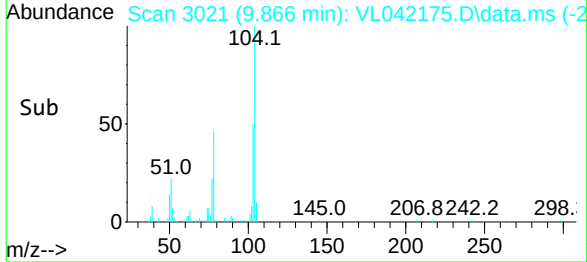
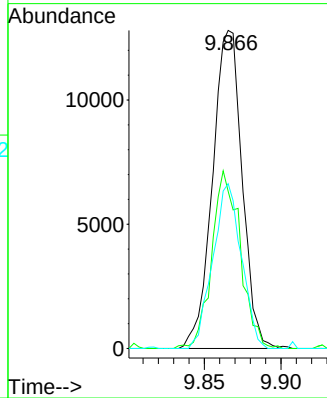
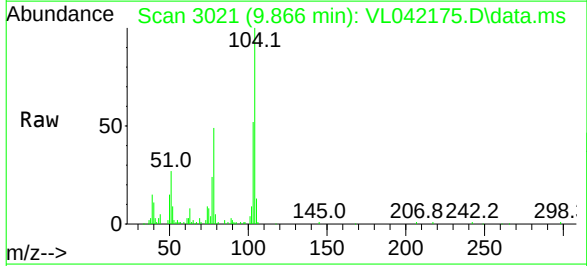
#61  
Styrene  
Concen: 0.504 ppbv  
RT: 9.866 min Scan# 3021  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 104   | Resp: | 17198 |
| Ion Ratio | Lower | Upper |       |
| 104       | 100   |       |       |
| 78        | 53.7  | 41.8  | 62.6  |
| 103       | 50.2  | 37.0  | 55.4  |

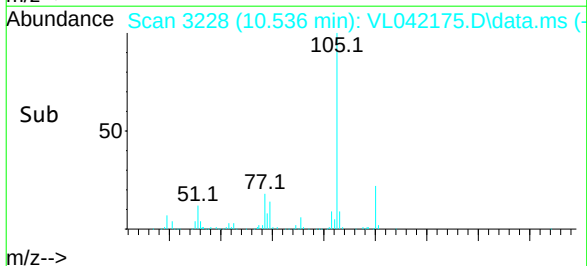
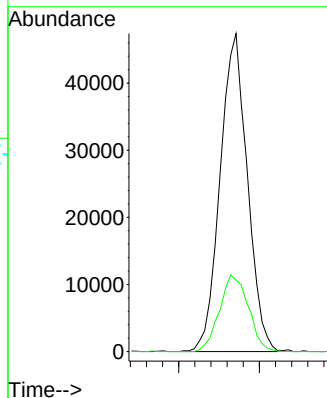
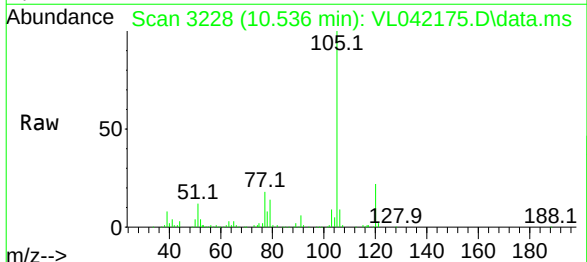
Manual Integrations  
APPROVED

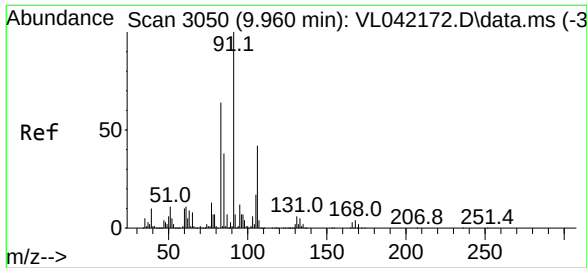
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#62  
Isopropylbenzene  
Concen: 0.538 ppbv  
RT: 10.536 min Scan# 3228  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 55531 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 25.5  | 19.9  | 29.9  |





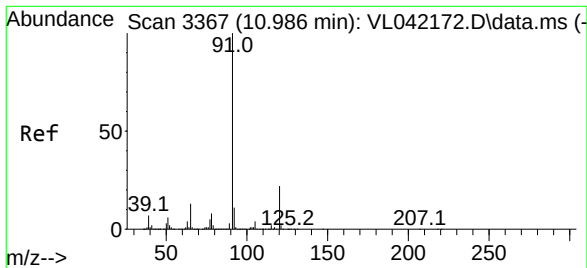
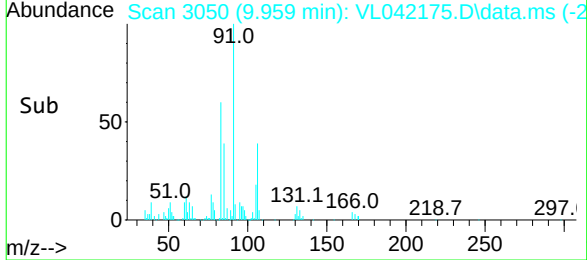
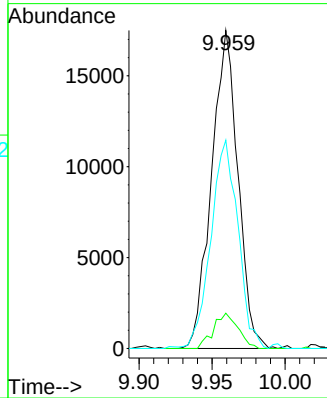
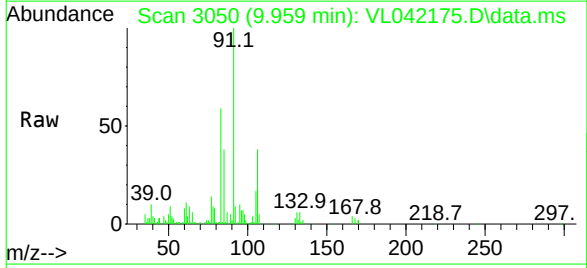
#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.525 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 21989 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 10.4  | 4.8   | 14.4  |
| 85       | 68.1  | 32.5  | 97.5  |

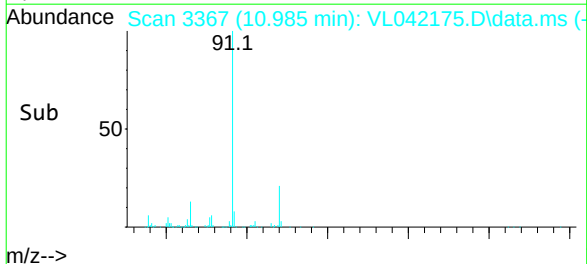
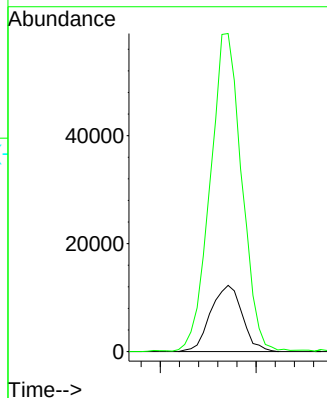
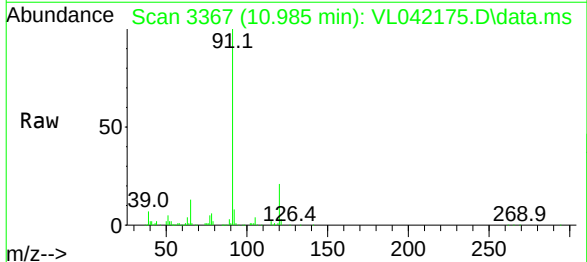
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

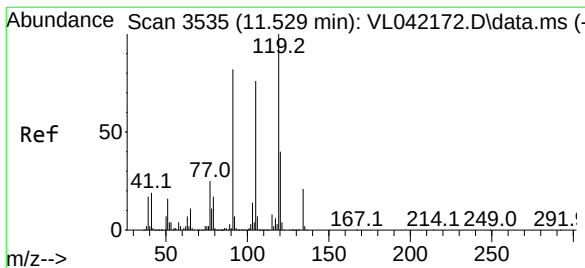


#64  
n-propylbenzene  
Concen: 0.528 ppbv  
RT: 10.985 min Scan# 3367  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 120   | Resp: | 14030 |
| Ion      | Ratio | Lower | Upper |
| 120      | 100   |       |       |
| 91       | 483.1 | 376.9 | 565.3 |

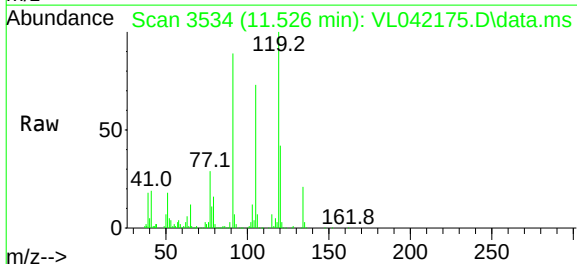






#65  
tert-Butylbenzene  
Concen: 0.557 ppbv  
RT: 11.526 min Scan# 35115  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

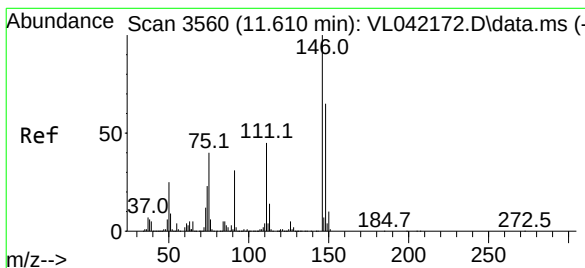
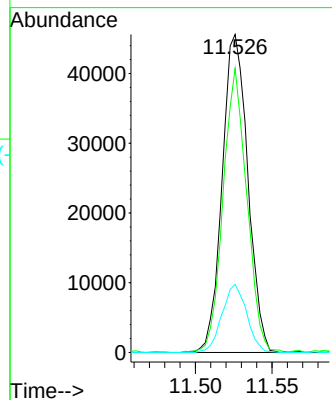
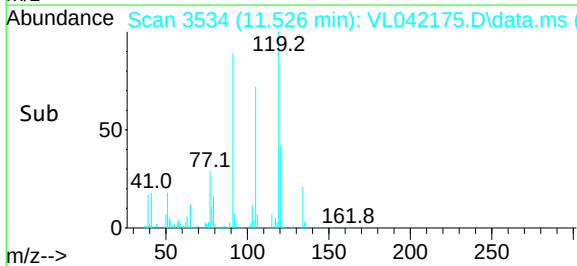
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 53115 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 82.9  | 66.0  | 99.0  |
| 134      | 20.6  | 16.7  | 25.1  |

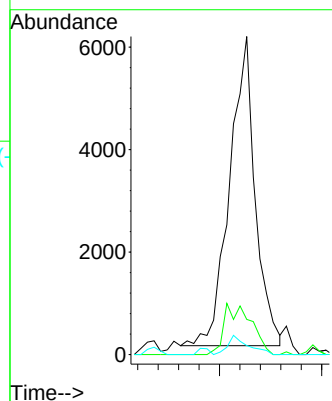
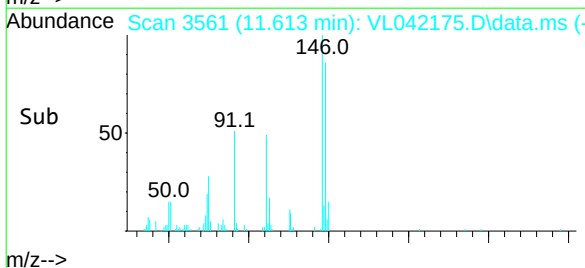
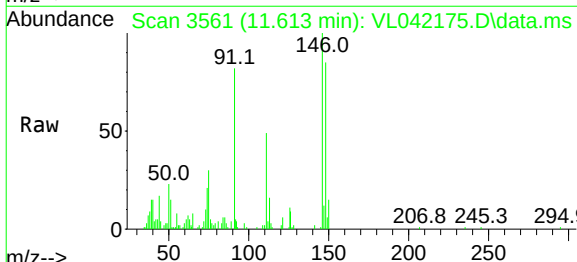
Manual Integrations  
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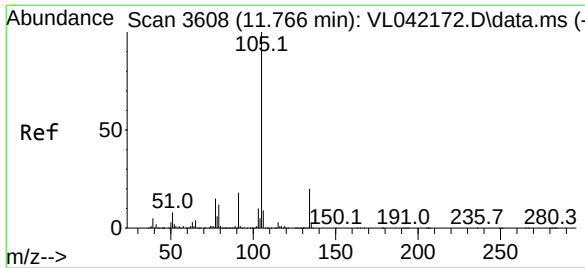
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#66  
Benzyl Chloride  
Concen: 0.520 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 5263  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 126      | 18.7  | 13.8  | 20.6  |
| 128      | 5.8   | 4.5   | 6.7   |





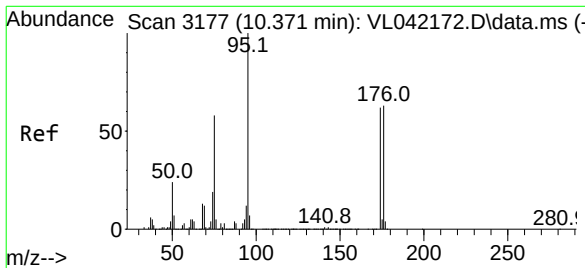
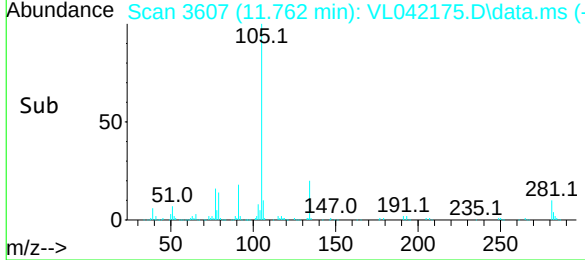
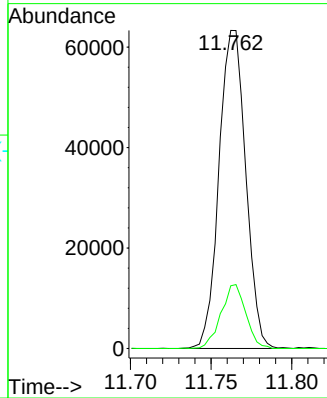
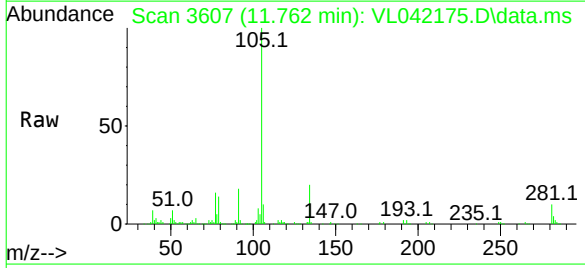
#67  
 sec-Butylbenzene  
 Concen: 0.550 ppbv  
 RT: 11.762 min Scan# 3607  
 Delta R.T. -0.003 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

Tgt Ion: 105 Resp: 72879  
 Ion Ratio Lower Upper  
 105 100  
 134 18.6 15.5 23.3

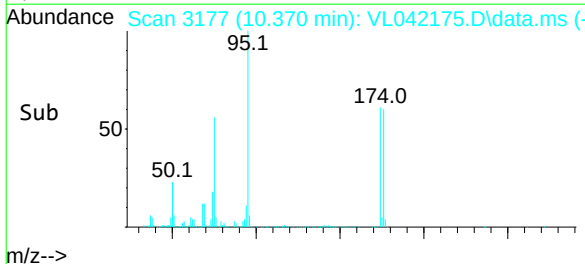
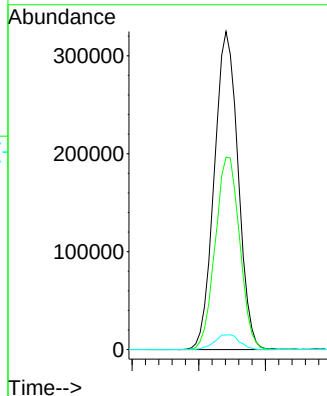
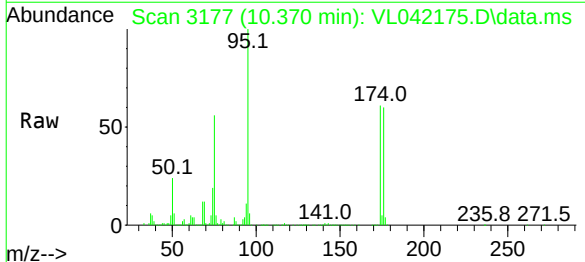
Manual Integrations  
 APPROVED

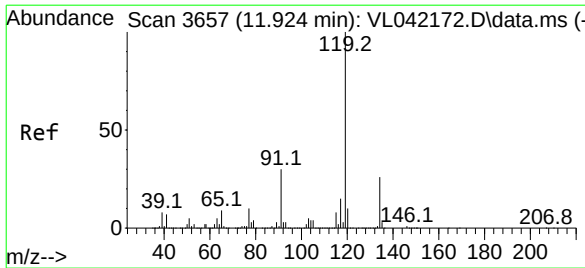
Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.130 ppbv  
 RT: 10.370 min Scan# 3177  
 Delta R.T. -0.000 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

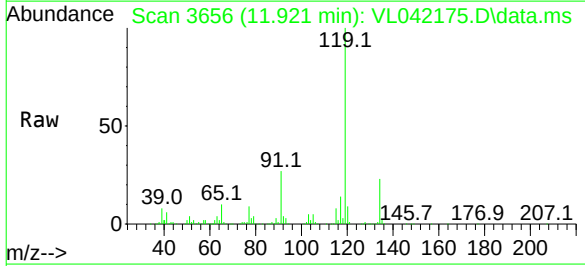
Tgt Ion: 95 Resp: 403513  
 Ion Ratio Lower Upper  
 95 100  
 174 62.3 50.6 76.0  
 175 4.9 3.8 5.6





#69  
p-Isopropyltoluene  
Concen: 0.542 ppbv  
RT: 11.921 min Scan# 3657  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

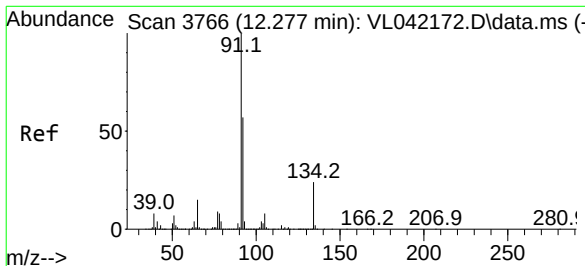
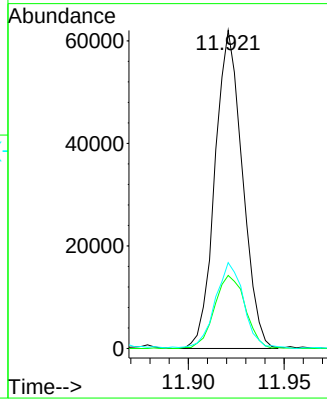
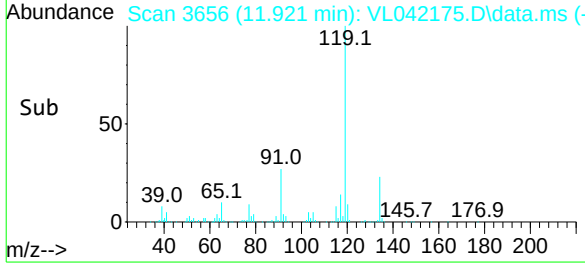
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



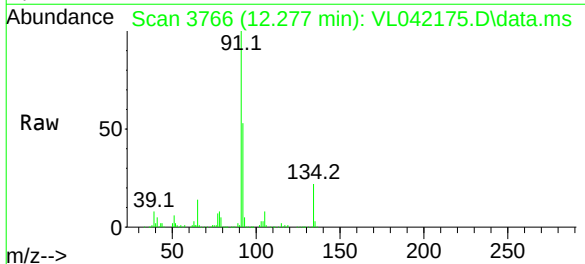
Tgt Ion: 119 Resp: 61933  
Ion Ratio Lower Upper  
119 100  
134 25.8 20.4 30.6  
91 29.4 23.7 35.5

Manual Integrations  
APPROVED

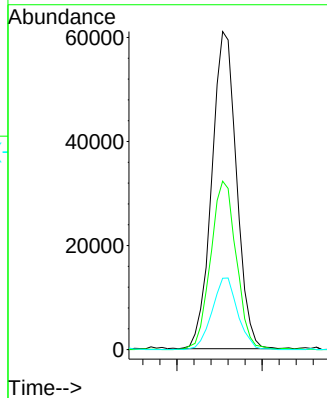
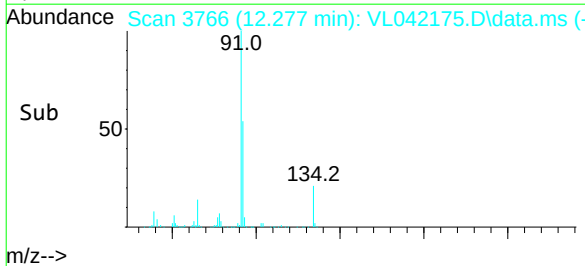
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

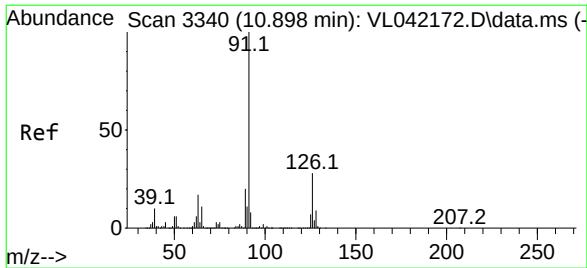


#70  
n-Butylbenzene  
Concen: 0.527 ppbv  
RT: 12.277 min Scan# 3766  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01



Tgt Ion: 91 Resp: 61507  
Ion Ratio Lower Upper  
91 100  
92 55.3 44.9 67.3  
134 23.4 19.2 28.8





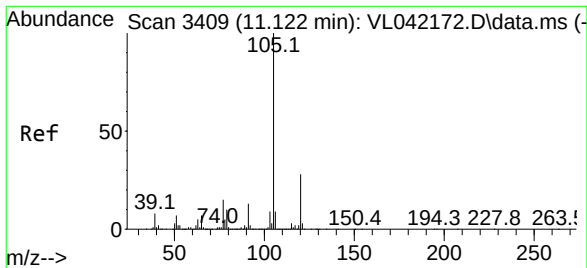
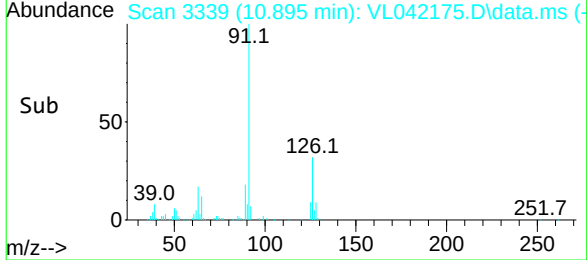
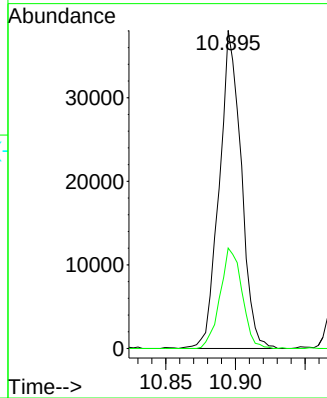
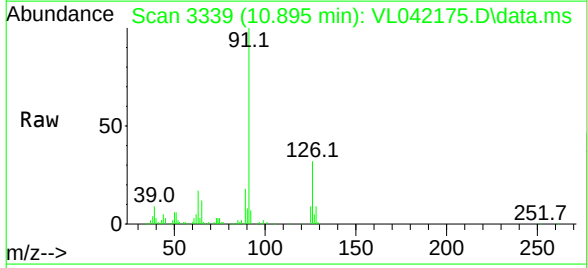
#71  
2-Chlorotoluene  
Concen: 0.520 ppbv  
RT: 10.895 min Scan# 3339  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 91 Resp: 41637  
Ion Ratio Lower Upper  
91 100  
126 31.7 11.6 46.4

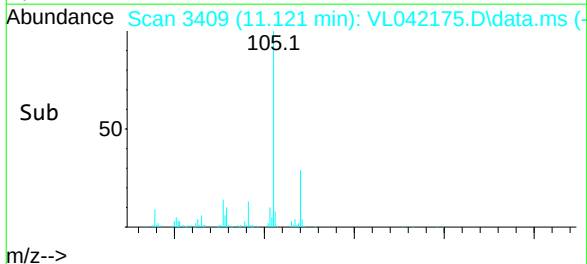
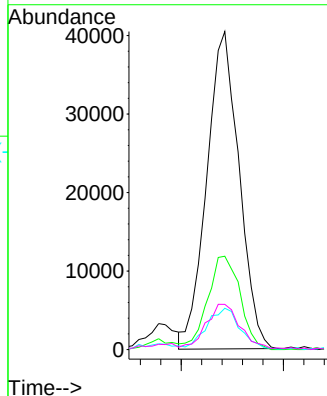
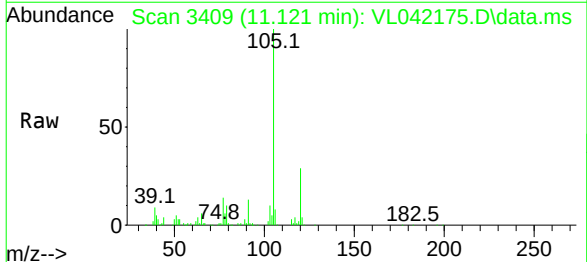
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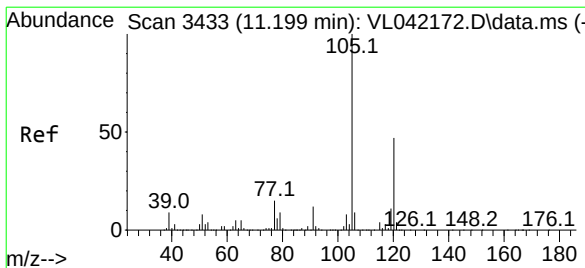
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#72  
4-Ethyltoluene  
Concen: 0.518 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 44473  
Ion Ratio Lower Upper  
105 100  
120 32.3 23.4 35.0  
91 14.9 10.3 15.5  
77 17.8 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.523 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 39190

Ion Ratio Lower Upper

105 100

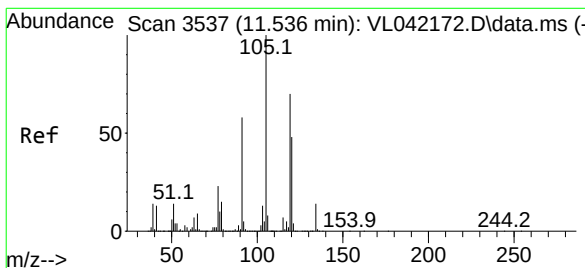
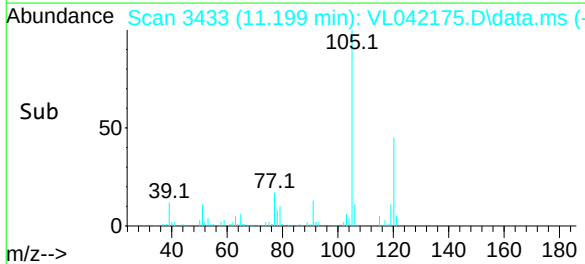
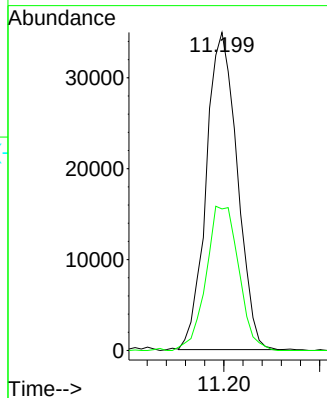
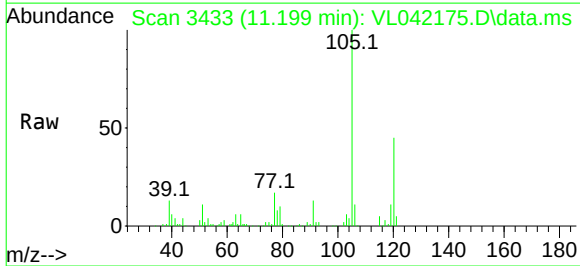
120 44.6 37.4 56.0

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Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.560 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 48370

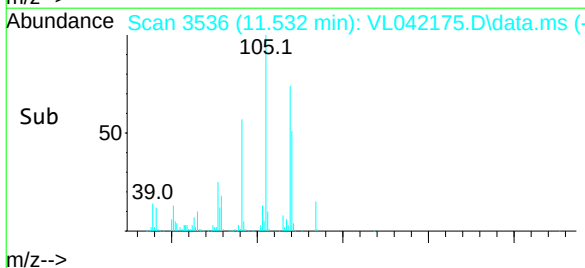
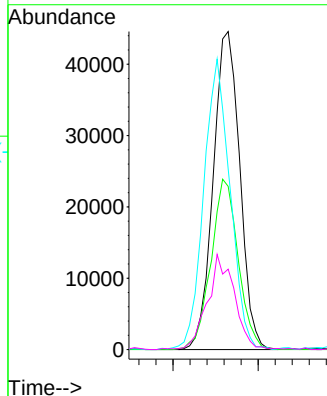
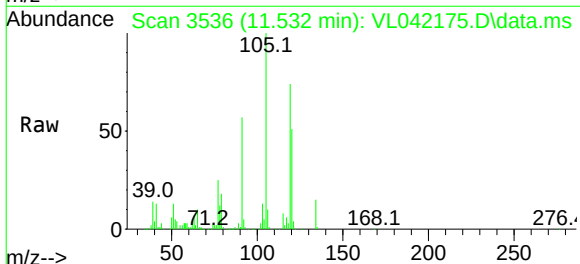
Ion Ratio Lower Upper

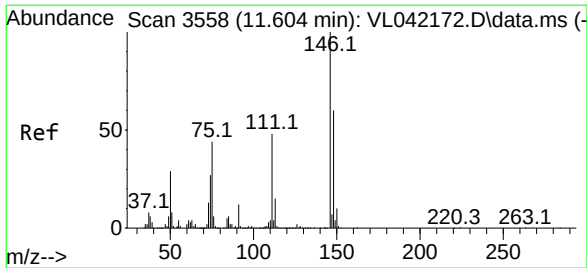
105 100

120 51.3 38.6 58.0

91 56.5 46.2 69.2

77 25.0 18.6 27.8





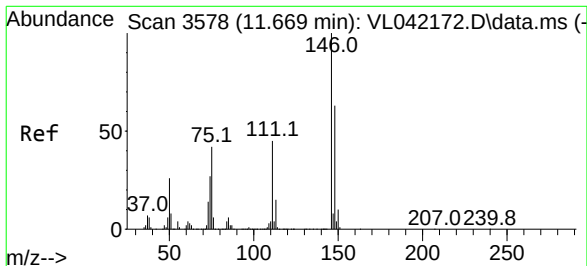
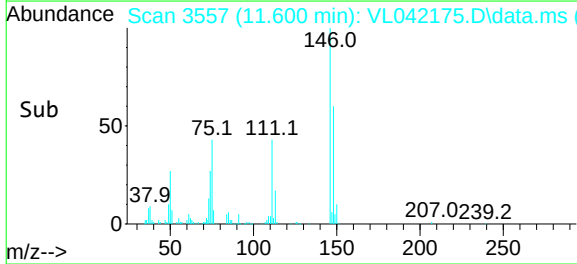
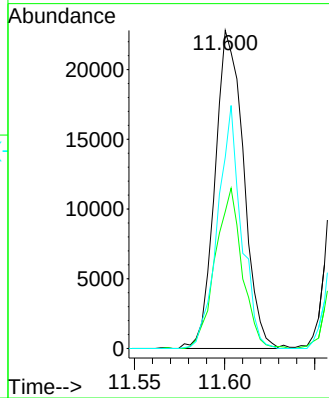
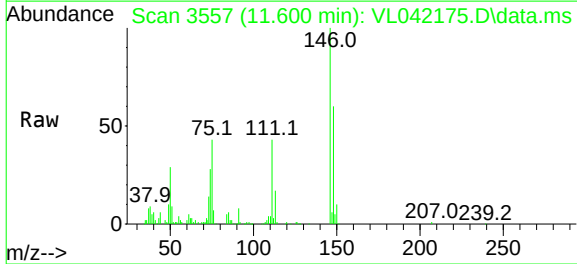
#75  
1,3-Dichlorobenzene  
Concen: 0.530 ppbv  
RT: 11.600 min Scan# 3558  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:146 Resp: 25122  
Ion Ratio Lower Upper  
146 100  
111 47.5 23.8 71.2  
148 63.7 31.9 95.9

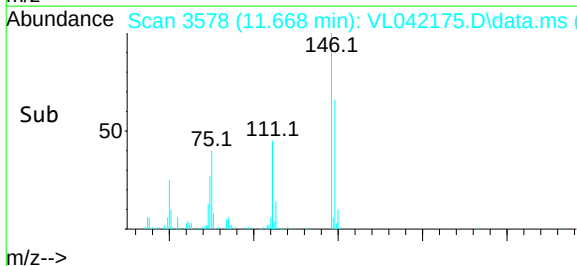
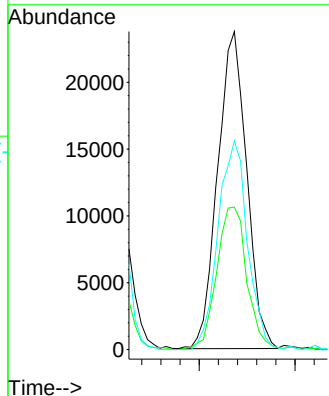
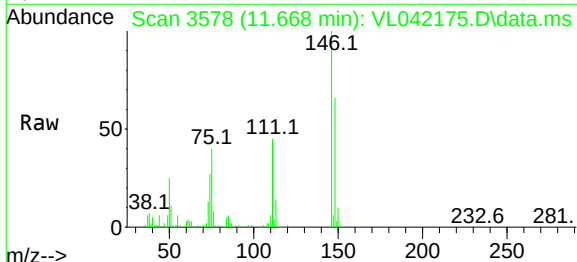
Manual Integrations  
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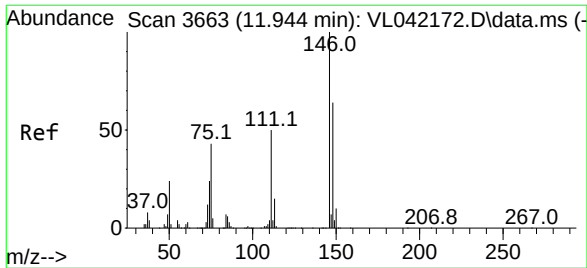
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#76  
1,4-Dichlorobenzene  
Concen: 0.530 ppbv  
RT: 11.668 min Scan# 3578  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion:146 Resp: 24991  
Ion Ratio Lower Upper  
146 100  
111 47.0 23.0 69.0  
148 67.5 31.9 95.7





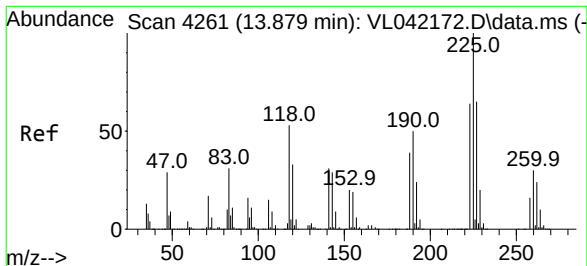
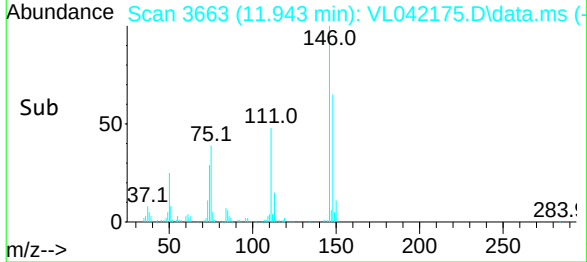
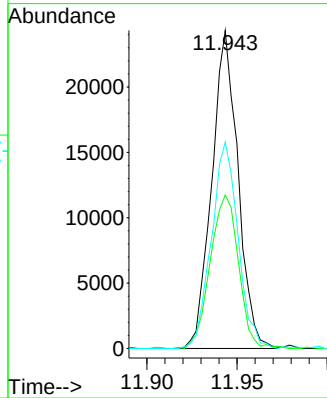
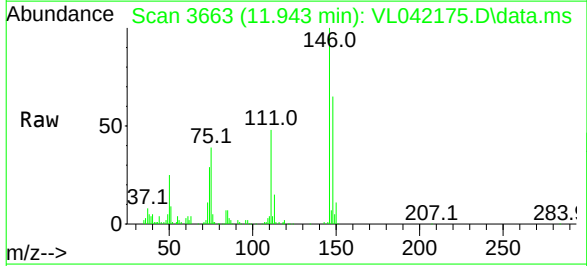
#77  
1,2-Dichlorobenzene  
Concen: 0.532 ppbv  
RT: 11.943 min Scan# 3663  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:146 Resp: 24548  
Ion Ratio Lower Upper  
146 100  
111 52.2 24.8 74.3  
148 66.6 31.6 94.8

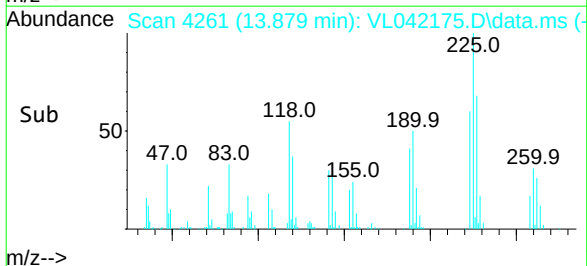
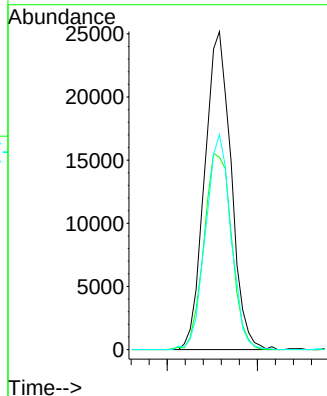
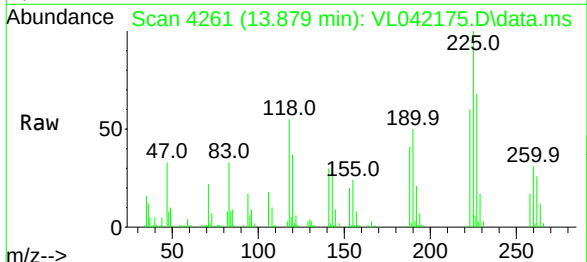
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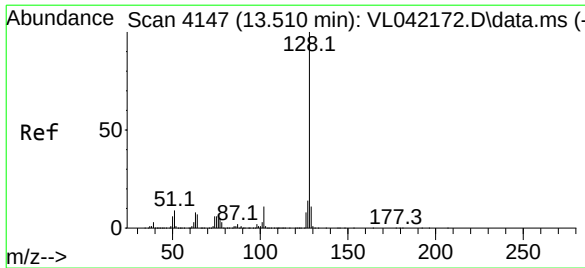
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.546 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion:225 Resp: 25636  
Ion Ratio Lower Upper  
225 100  
223 64.5 50.6 76.0  
227 64.8 51.2 76.8





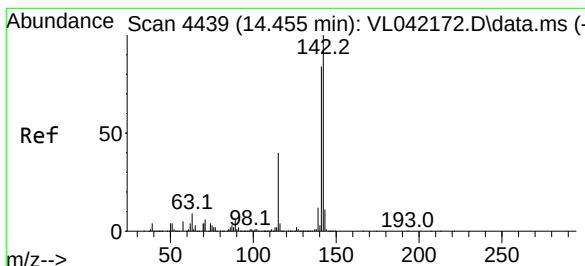
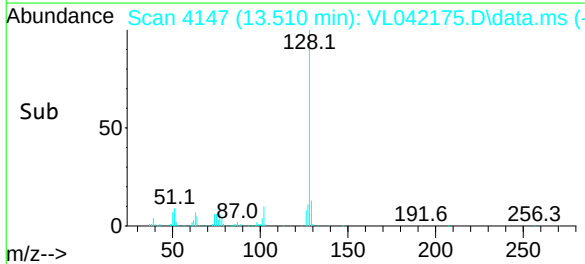
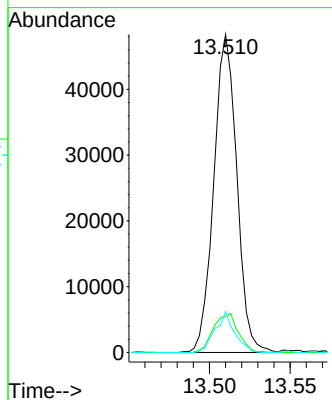
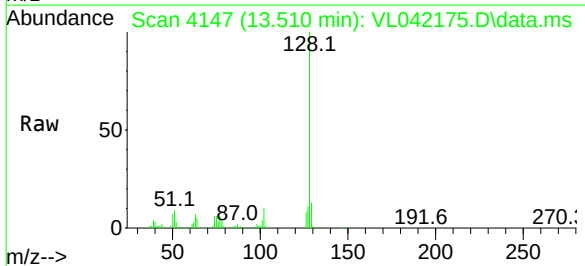
#79  
Naphthalene  
Concen: 0.508 ppbv  
RT: 13.510 min Scan# 4147  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 47990 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 11.4  | 10.8  | 16.2  |
| 129      | 12.8  | 9.0   | 13.4  |

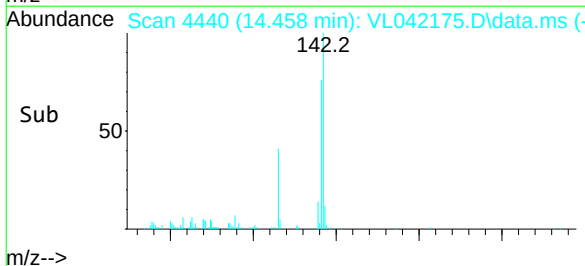
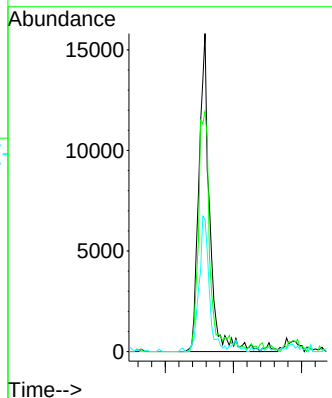
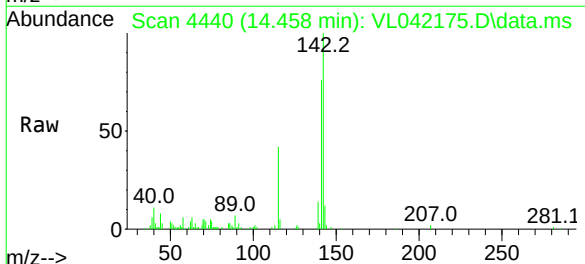
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

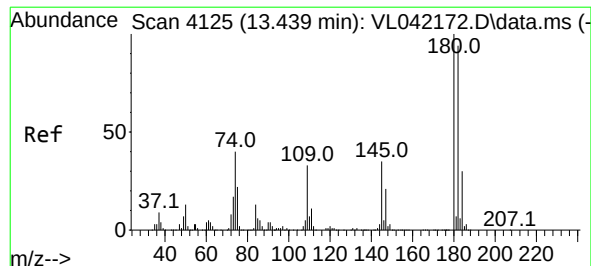


#80  
Naphthalene, 2-methyl-  
Concen: 0.380 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 17486 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 83.3  | 66.3  | 99.5  |
| 115      | 43.5  | 31.6  | 47.4  |







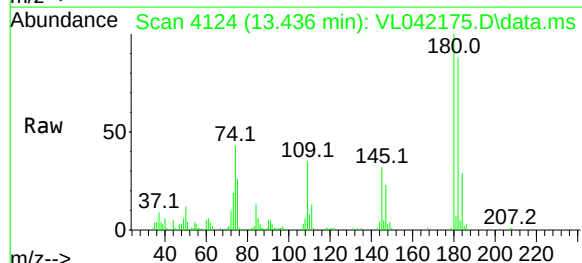
#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.457 ppbv  
 RT: 13.436 min Scan# 41  
 Delta R.T. -0.003 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

Instrument :

MSVOA\_L

ClientSampleId :

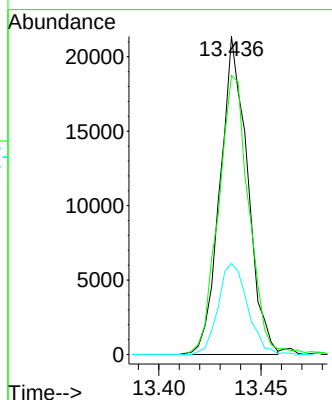
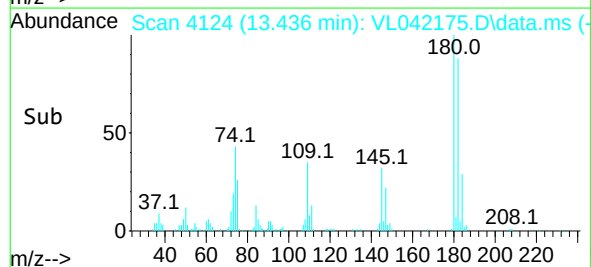
VSTDIC0.5



|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:180 | Resp: | 19924 |
| Ion | Ratio   | Lower | Upper |
| 180 | 100     |       |       |
| 182 | 97.9    | 75.1  | 112.7 |
| 184 | 31.1    | 24.4  | 36.6  |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



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  
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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              |        |       |          |          |            |          |
|                               |        |       |          |          |            | Qvalue   |
| 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

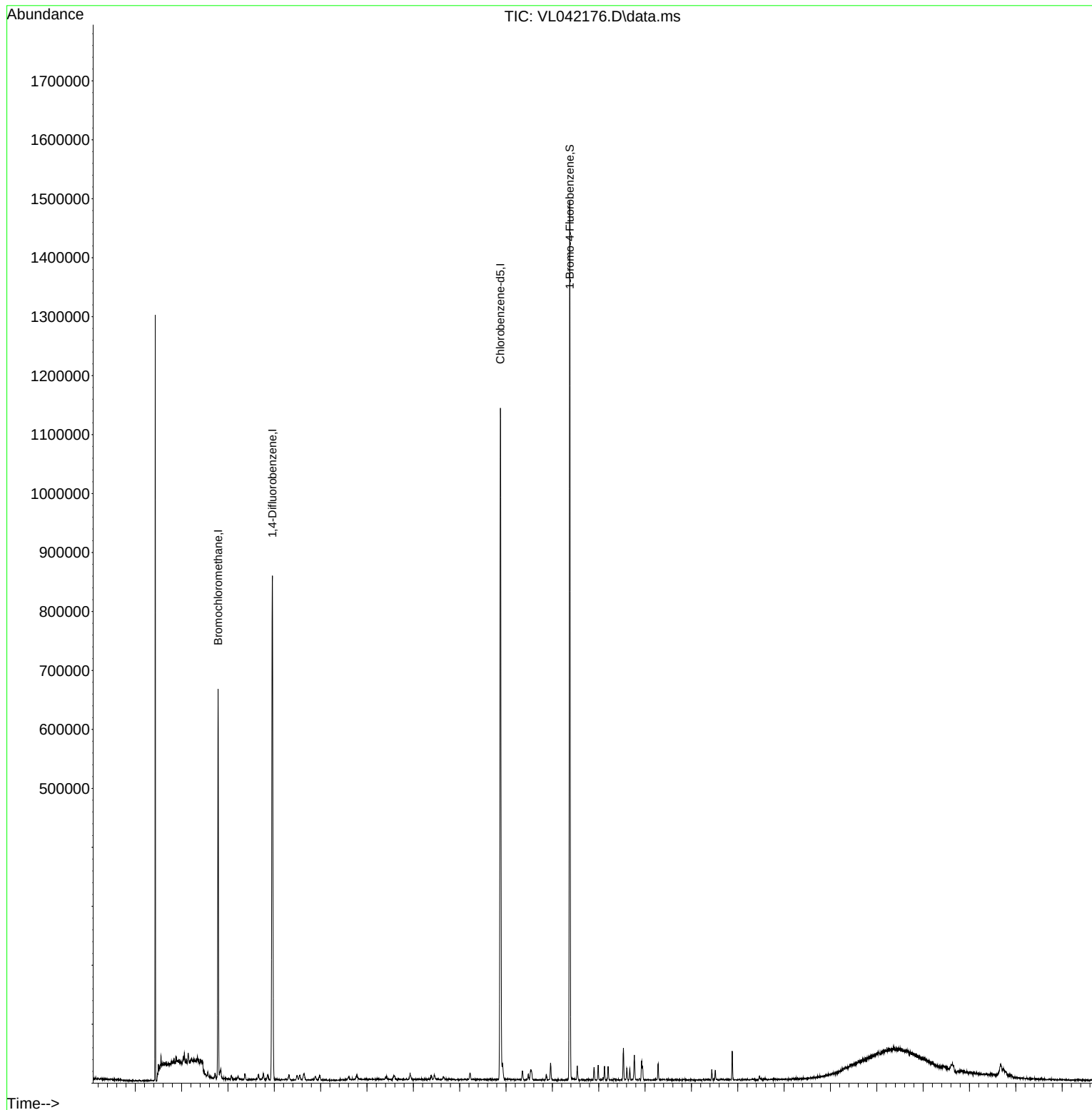
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042176.D  
Acq On : 27 Mar 2025 10:32  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

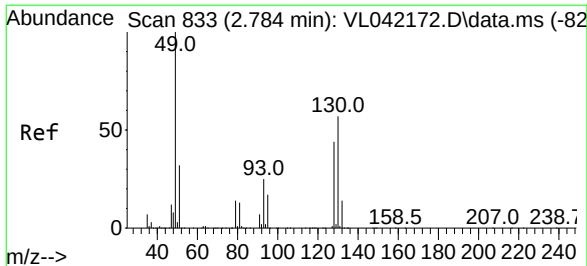
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

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  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration

Manual Integrations  
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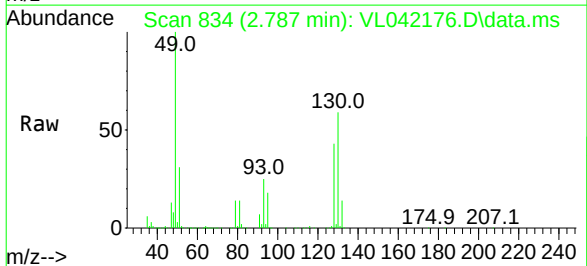
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 833  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

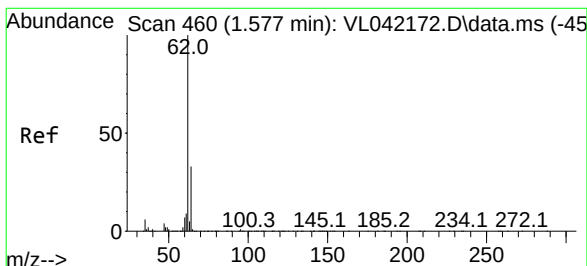
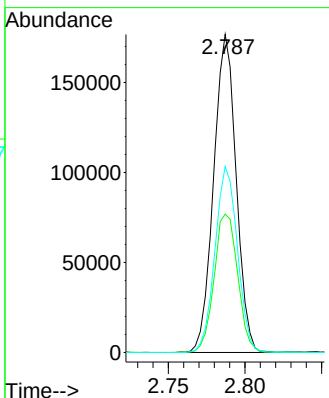
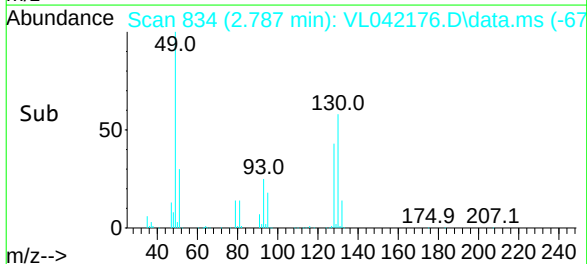
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



Tgt Ion: 49 Resp: 180740  
Ion Ratio Lower Upper  
49 100  
128 45.6 22.9 68.5  
130 58.5 28.8 86.4

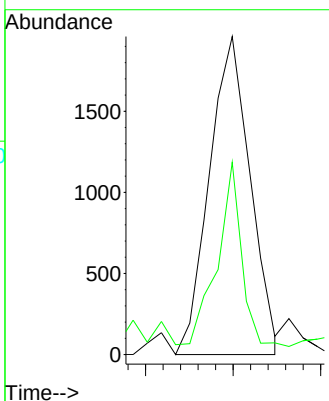
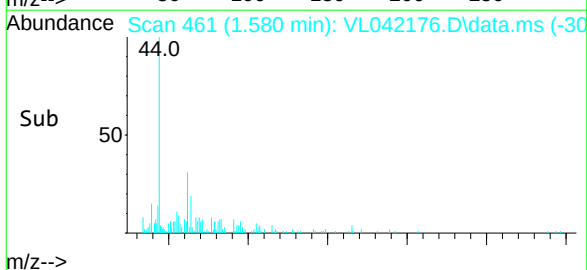
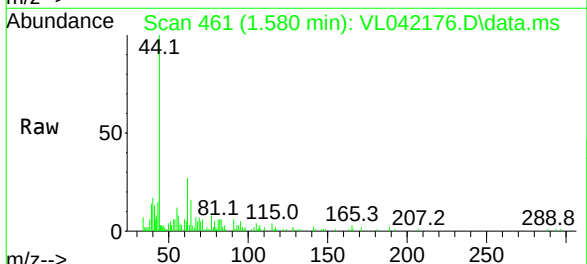
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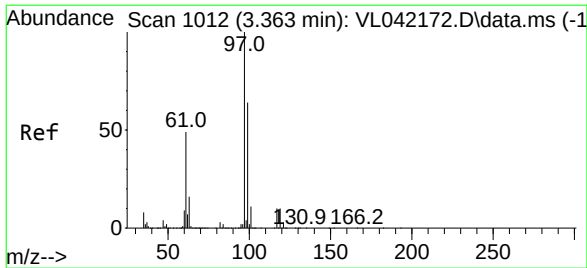
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#5  
Vinyl Chloride  
Concen: 0.115 ppbv  
RT: 1.580 min Scan# 461  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

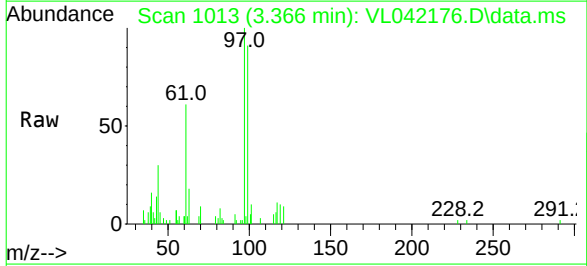
Tgt Ion: 62 Resp: 1274  
Ion Ratio Lower Upper  
62 100  
64 66.4 26.6 40.0#





#32  
 1,1,1-Trichloroethane  
 Concen: 0.106 ppbv m  
 RT: 3.366 min Scan# 1012  
 Delta R.T. 0.003 min  
 Lab File: VL042176.D  
 Acq: 27 Mar 2025 10:32

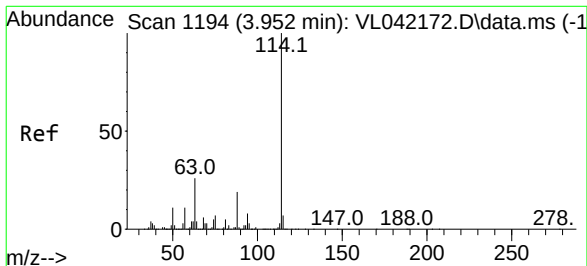
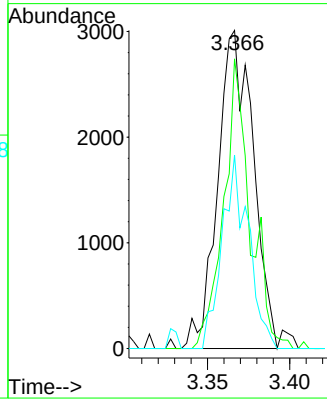
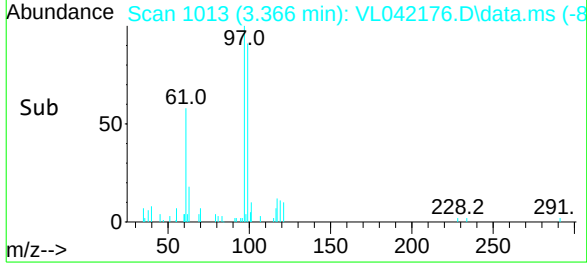
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.1



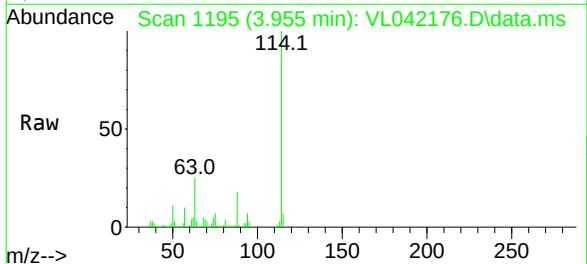
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 4509  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 68.6  | 51.5  | 77.3  |
| 61       | 45.4  | 38.7  | 58.1  |

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 APPROVED

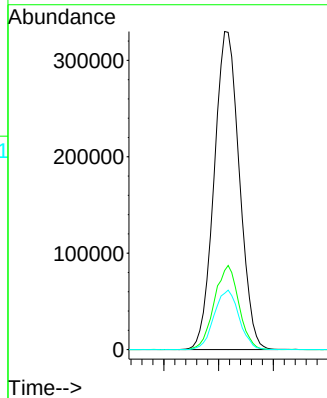
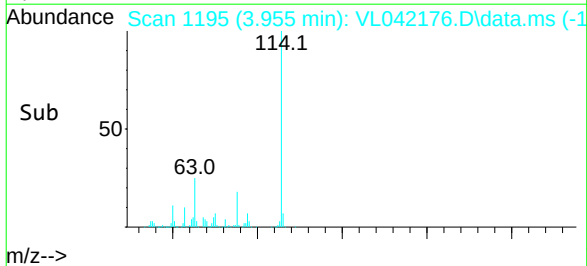
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

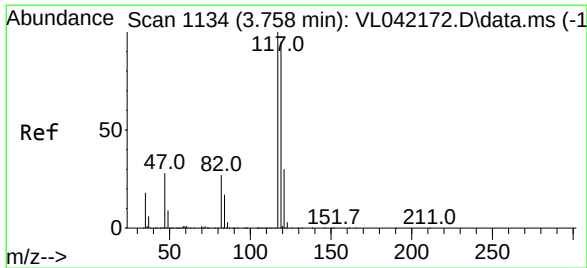


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.955 min Scan# 1195  
 Delta R.T. 0.003 min  
 Lab File: VL042176.D  
 Acq: 27 Mar 2025 10:32



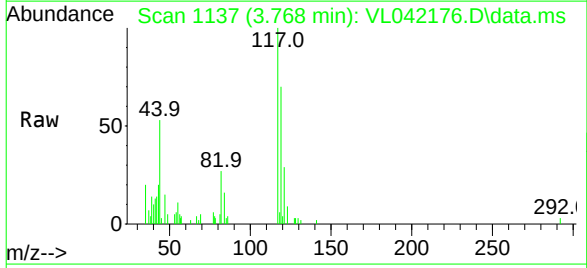
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 528028 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 25.8  | 20.7  | 31.1   |
| 88       | 18.5  | 15.0  | 22.4   |





#35  
Carbon Tetrachloride  
Concen: 0.102 ppbv m  
RT: 3.768 min Scan# 1134  
Delta R.T. 0.010 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

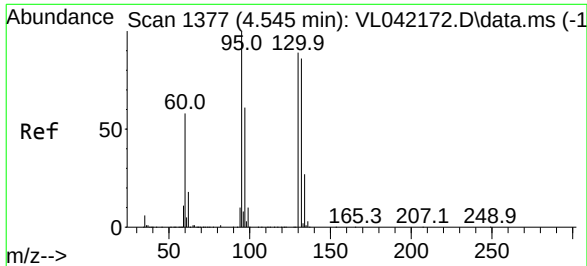
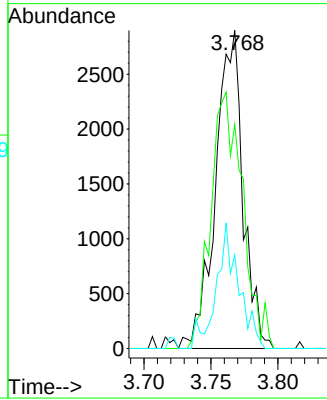
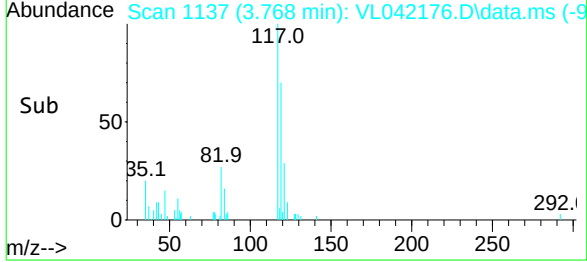
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC0.1



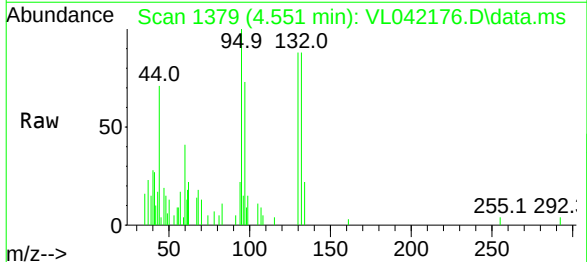
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 4131  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 70.5  | 76.2  | 114.2 |
| 121      | 29.4  | 24.2  | 36.4  |

Manual Integrations  
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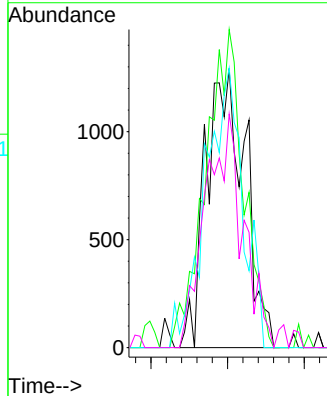
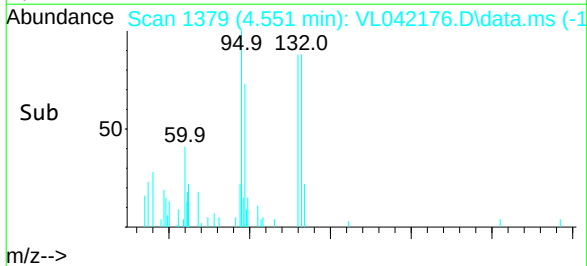
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

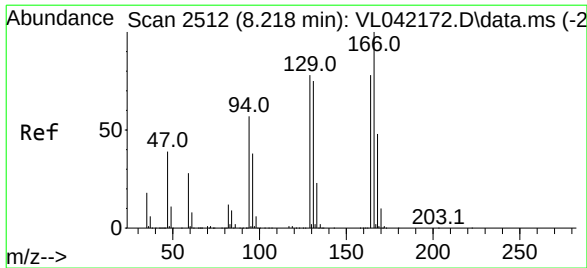


#38  
Trichloroethene  
Concen: 0.106 ppbv m  
RT: 4.551 min Scan# 1379  
Delta R.T. 0.006 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32



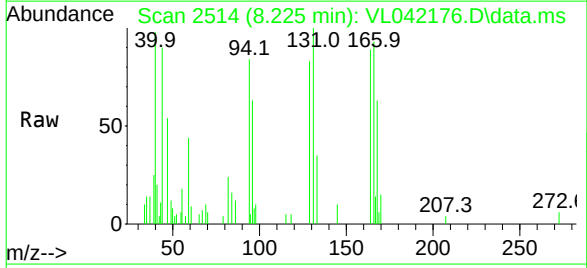
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 2306  |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 114.0 | 89.8  | 134.8 |
| 132      | 100.2 | 77.4  | 116.2 |
| 97       | 83.7  | 55.1  | 82.7  |





#52  
Tetrachloroethene  
Concen: 0.091 ppbv m  
RT: 8.225 min Scan# 2512  
Delta R.T. 0.006 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

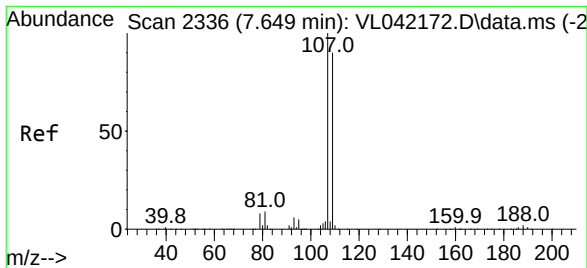
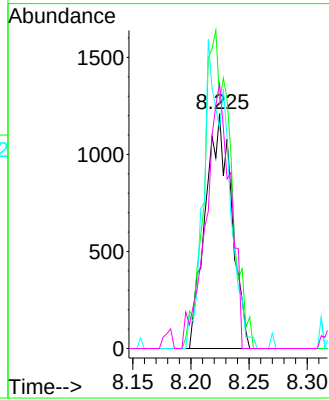
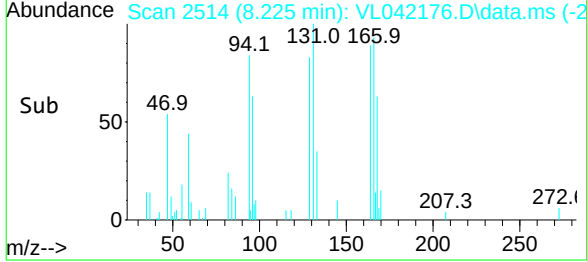
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1



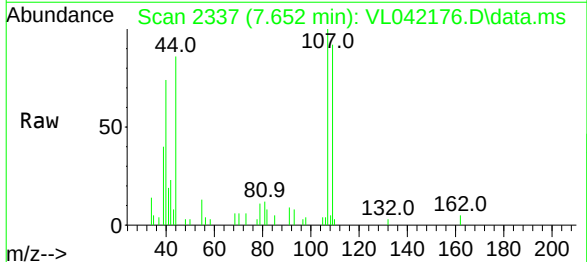
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 1895  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 166      | 105.1 | 102.5 | 153.7 |
| 129      | 93.7  | 79.8  | 119.8 |
| 131      | 112.8 | 76.6  | 114.8 |

Manual Integrations  
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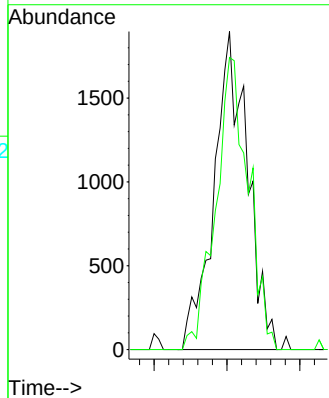
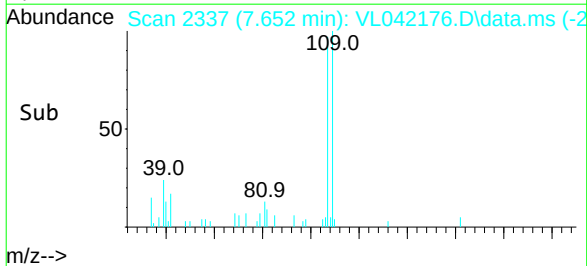
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

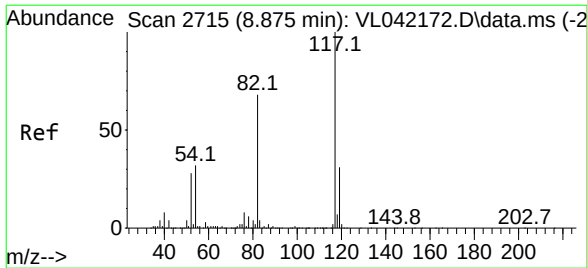


#54  
1,2-Dibromoethane  
Concen: 0.108 ppbv m  
RT: 7.652 min Scan# 2337  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 3033  |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 109      | 91.8  | 72.2  | 108.4 |





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2715

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA\_L

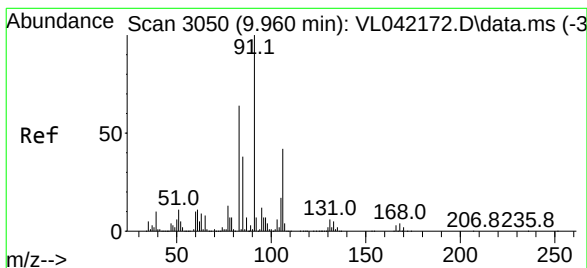
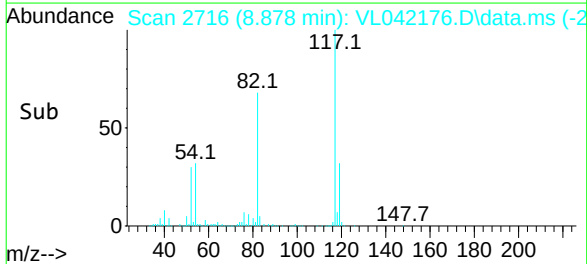
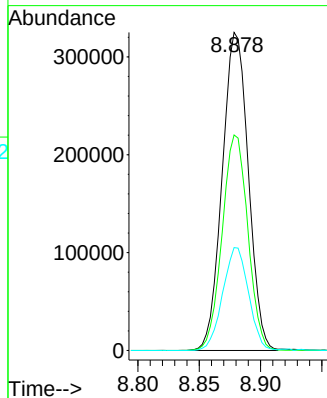
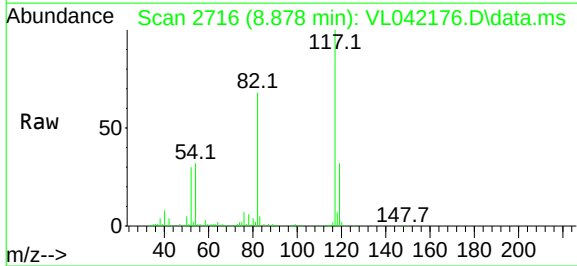
ClientSampleId :

VSTDIC0.1

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 481506 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 66.7  | 55.8  | 83.6   |
| 119      | 32.3  | 25.5  | 38.3   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#63

1,1,2,2-Tetrachloroethane

Concen: 0.093 ppbv m

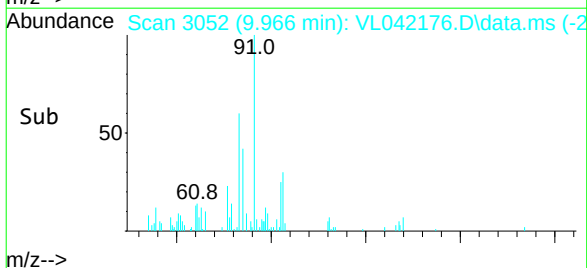
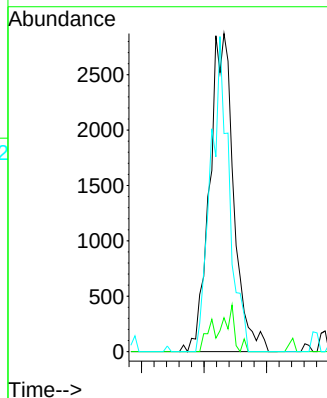
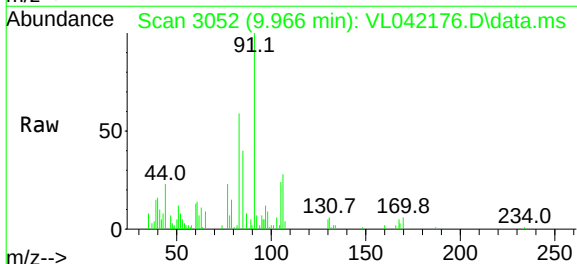
RT: 9.966 min Scan# 3052

Delta R.T. 0.006 min

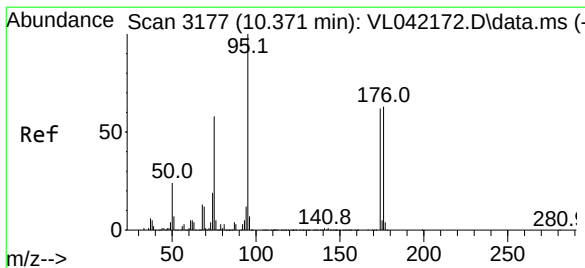
Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 3852  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 0.0   | 4.8   | 14.4# |
| 85       | 0.0   | 32.5  | 97.5# |

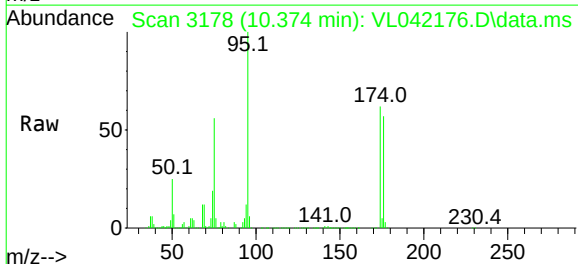






#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.067 ppbv  
RT: 10.374 min Scan# 3177  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

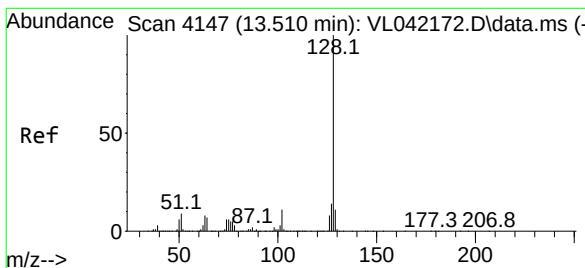
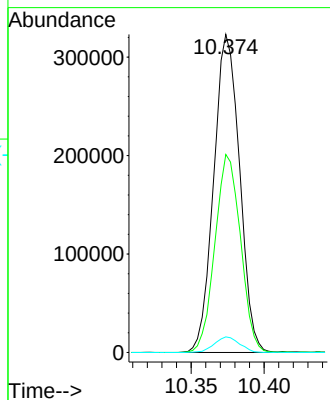
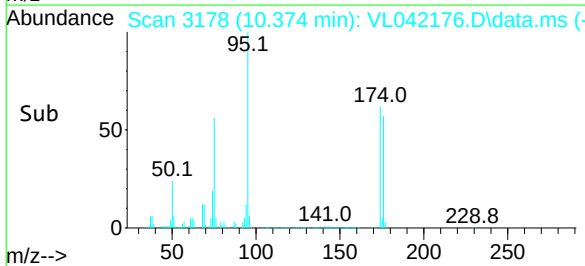
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



Tgt Ion: 95 Resp: 398069  
Ion Ratio Lower Upper  
95 100  
174 61.5 50.6 76.0  
175 4.8 3.8 5.6

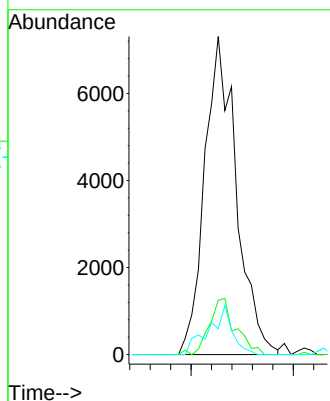
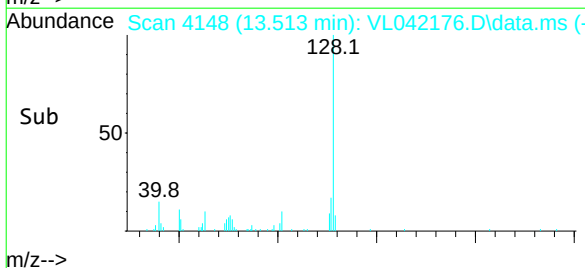
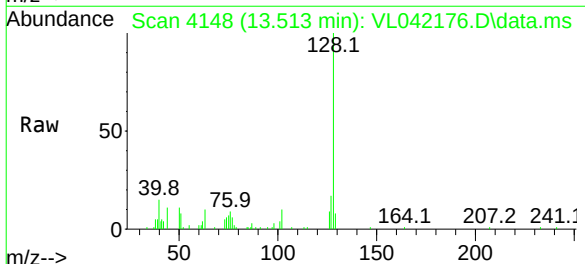
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#79  
Naphthalene  
Concen: 0.084 ppbv  
RT: 13.513 min Scan# 4148  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion:128 Resp: 7882  
Ion Ratio Lower Upper  
128 100  
127 17.1 10.8 16.2#  
129 8.1 9.0 13.4#



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

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 2  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration

Manual Integrations  
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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         | 2.787  | 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

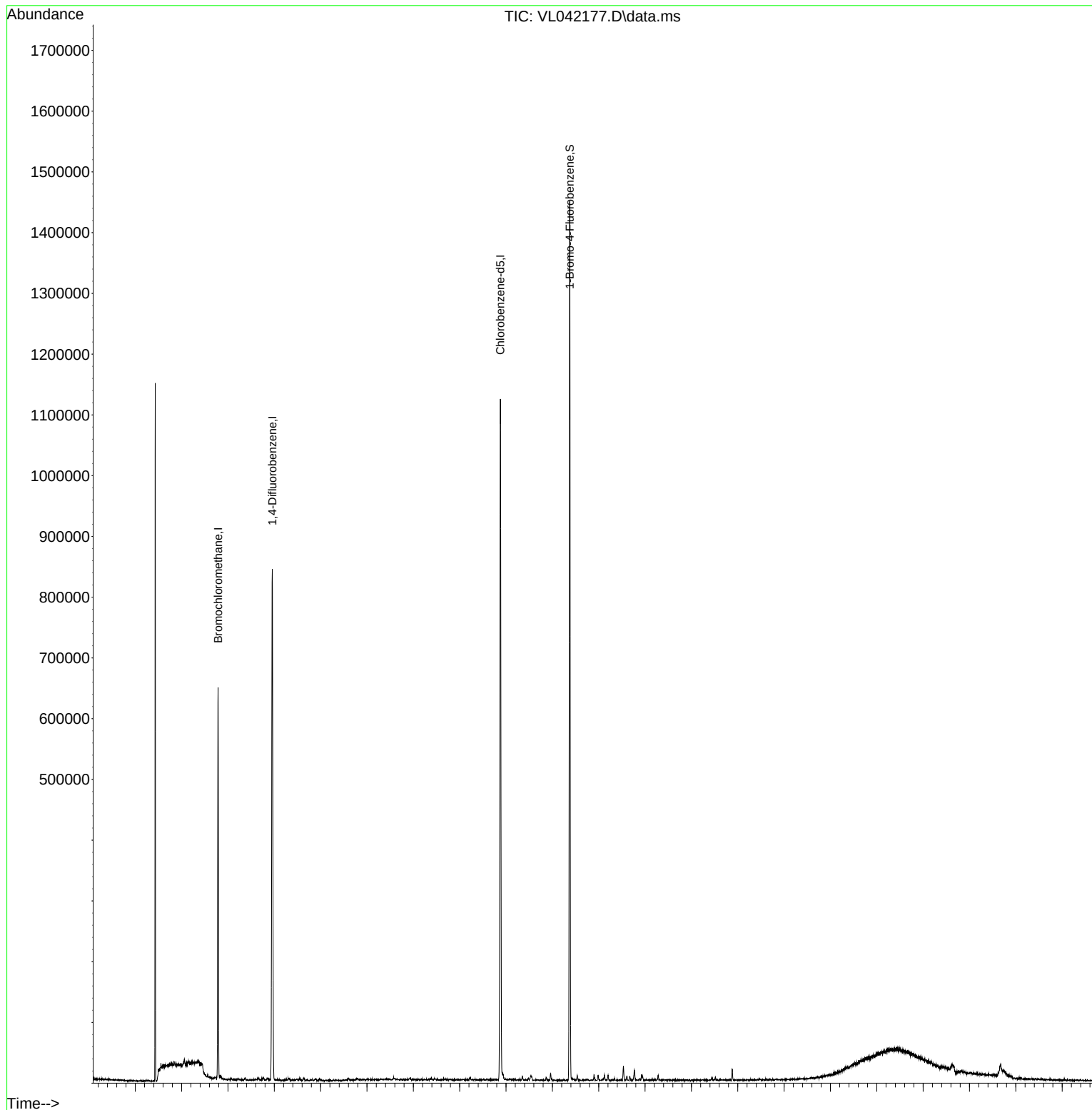
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Data File : VL042177.D  
Acq On : 27 Mar 2025 11:03  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

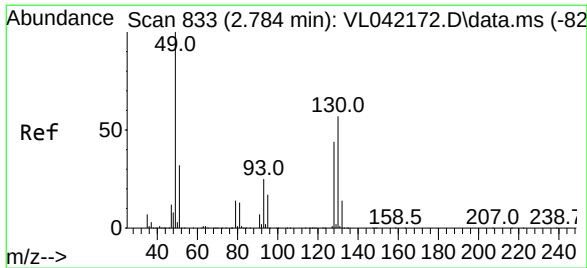
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

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

Manual Integrations  
APPROVED

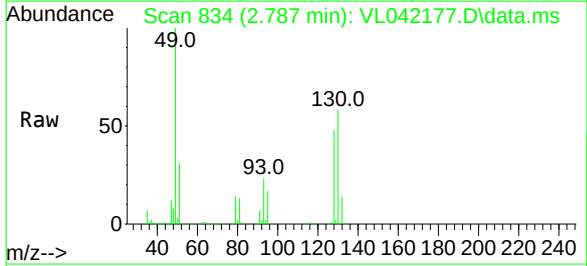
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025





#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.787 min Scan# 833  
 Delta R.T. 0.003 min  
 Lab File: VL042177.D  
 Acq: 27 Mar 2025 11:03

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

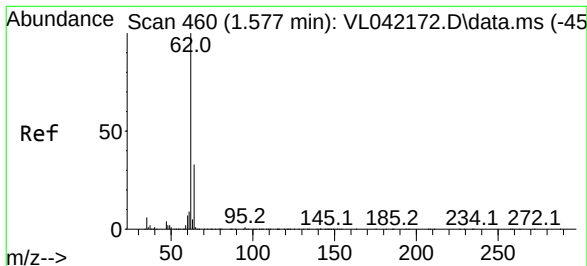
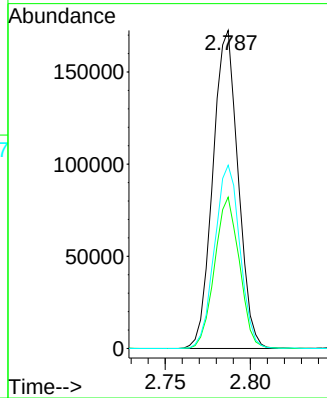
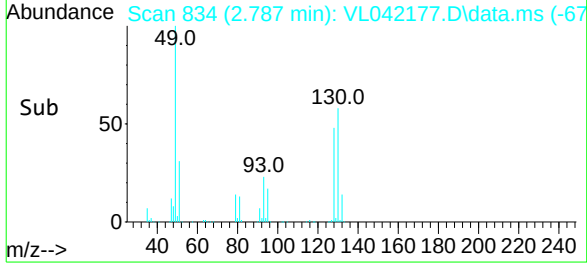


Tgt Ion: 49 Resp: 178058

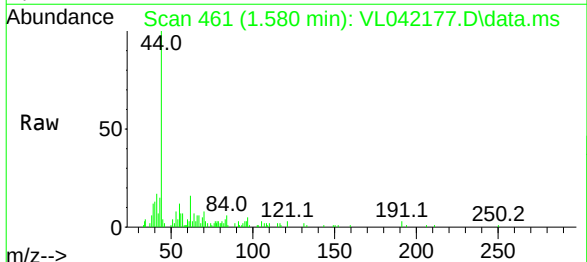
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 46.8  | 22.9  | 68.5  |
| 130 | 57.9  | 28.8  | 86.4  |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

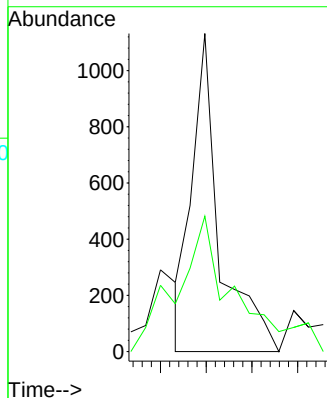
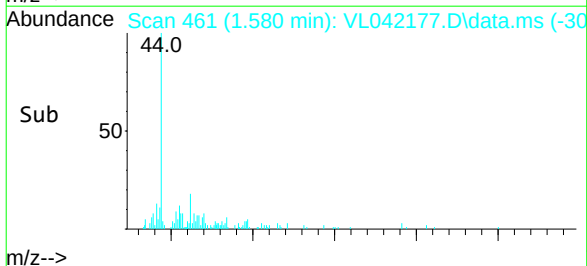


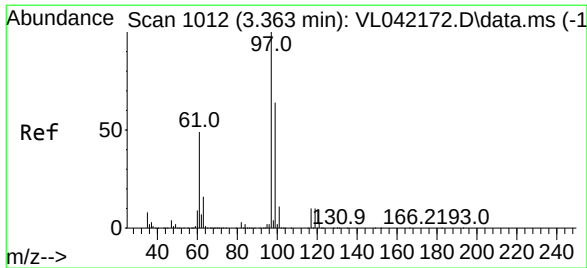
#5  
 Vinyl Chloride  
 Concen: 0.043 ppbv m  
 RT: 1.580 min Scan# 461  
 Delta R.T. 0.003 min  
 Lab File: VL042177.D  
 Acq: 27 Mar 2025 11:03



Tgt Ion: 62 Resp: 471

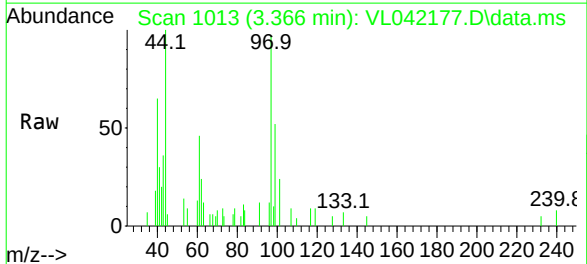
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 62  | 100   |       |       |
| 64  | 42.6  | 26.6  | 40.0# |





#32  
 1,1,1-Trichloroethane  
 Concen: 0.040 ppbv m  
 RT: 3.366 min Scan# 1012  
 Delta R.T. 0.003 min  
 Lab File: VL042177.D  
 Acq: 27 Mar 2025 11:03

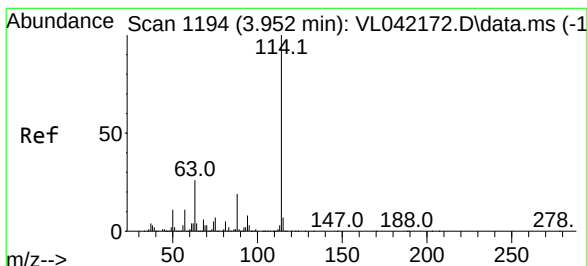
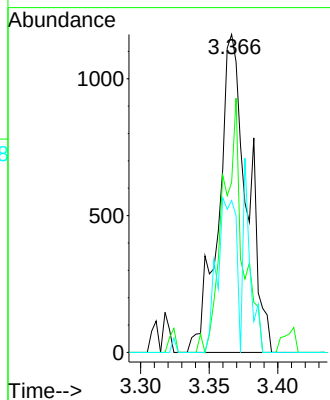
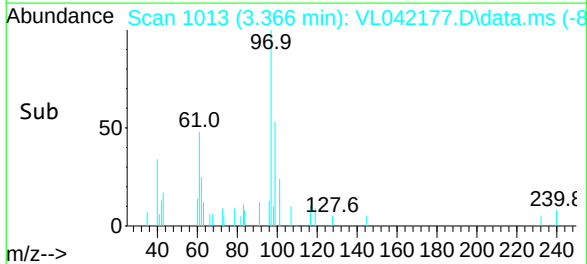
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03



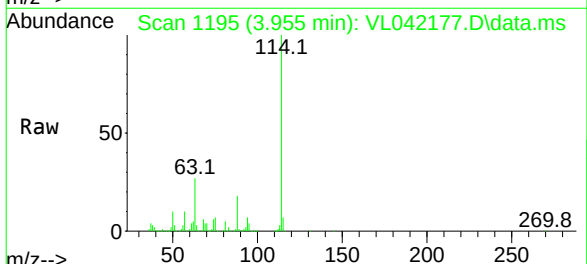
Tgt Ion: 97 Resp: 1683  
 Ion Ratio Lower Upper  
 97 100  
 99 3.8 51.5 77.3#  
 61 2.1 38.7 58.1#

Manual Integrations  
 APPROVED

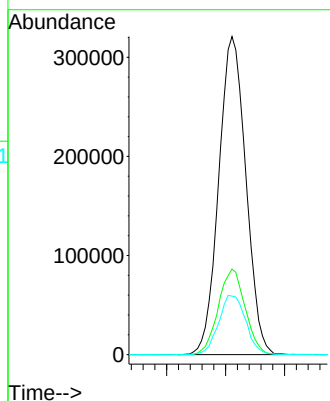
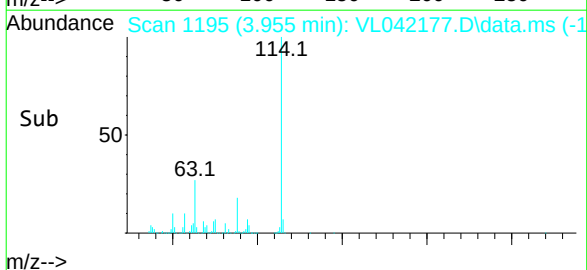
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

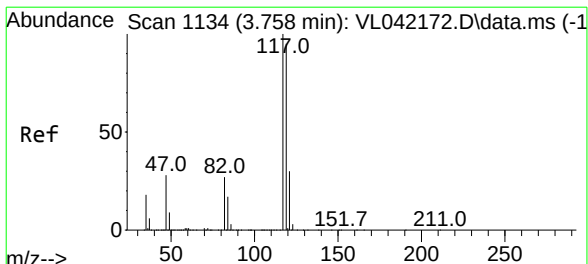


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.955 min Scan# 1195  
 Delta R.T. 0.003 min  
 Lab File: VL042177.D  
 Acq: 27 Mar 2025 11:03



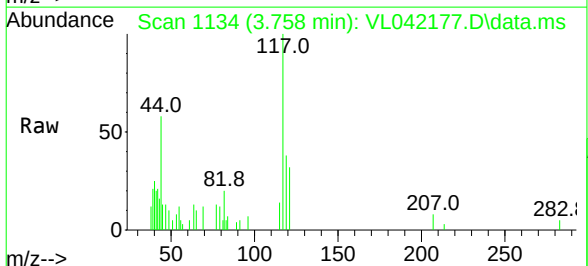
Tgt Ion:114 Resp: 512915  
 Ion Ratio Lower Upper  
 114 100  
 63 26.6 20.7 31.1  
 88 18.6 15.0 22.4





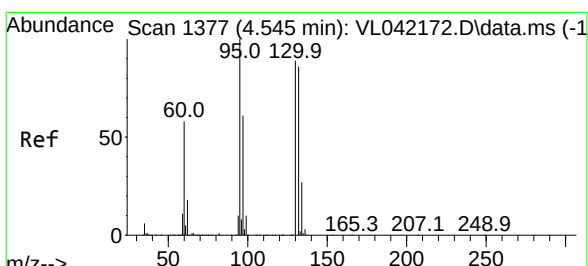
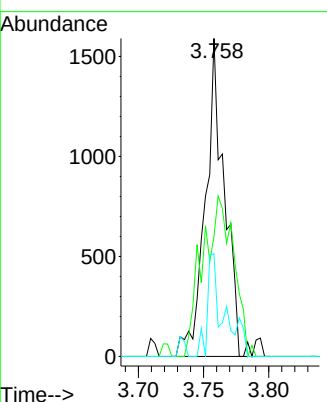
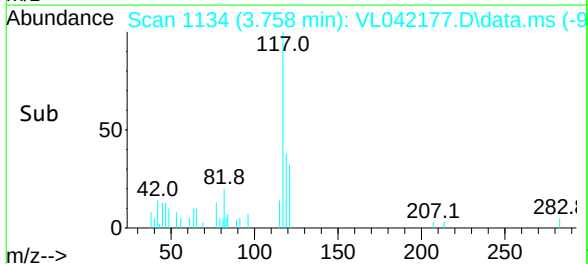
#35  
Carbon Tetrachloride  
Concen: 0.042 ppbv m  
RT: 3.758 min Scan# 1134  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

Instrument : MSVOA\_L  
ClientSampleId : VSTDIC0.03

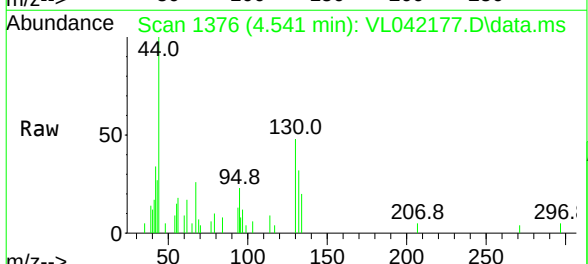


|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 1645   |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 37.7  | 76.2  | 114.2# |
| 121      | 32.3  | 24.2  | 36.4   |

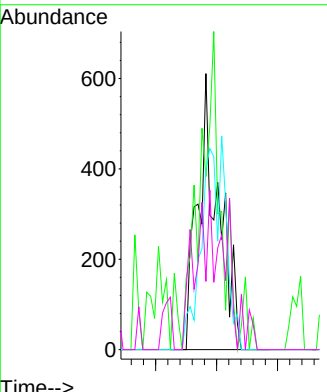
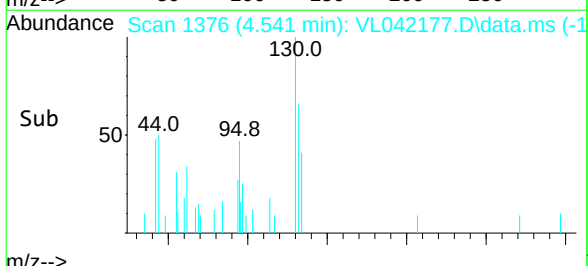
Manual Integrations  
**APPROVED**  
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

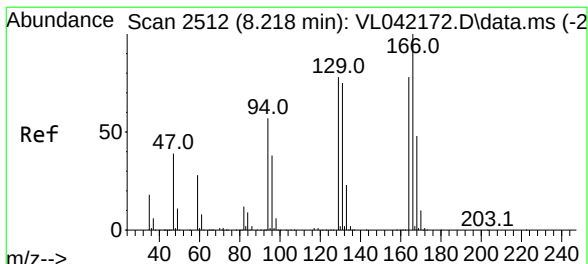


#38  
Trichloroethene  
Concen: 0.034 ppbv m  
RT: 4.541 min Scan# 1376  
Delta R.T. -0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03



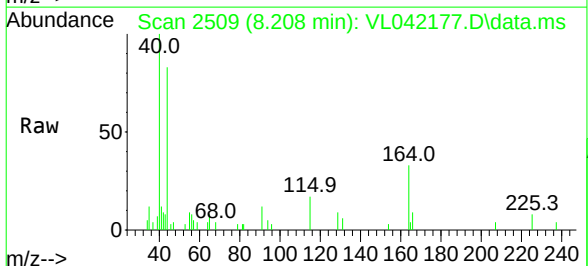
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 130   | Resp: | 712    |
| Ion      | Ratio | Lower | Upper  |
| 130      | 100   |       |        |
| 95       | 47.0  | 89.8  | 134.8# |
| 132      | 65.6  | 77.4  | 116.2# |
| 97       | 24.7  | 55.1  | 82.7#  |





#52  
 Tetrachloroethene  
 Concen: 0.044 ppbv m  
 RT: 8.208 min Scan# 2512  
 Delta R.T. -0.010 min  
 Lab File: VL042177.D  
 Acq: 27 Mar 2025 11:03

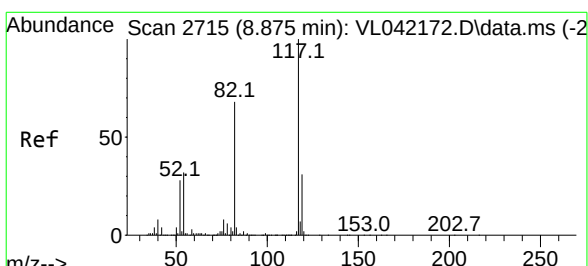
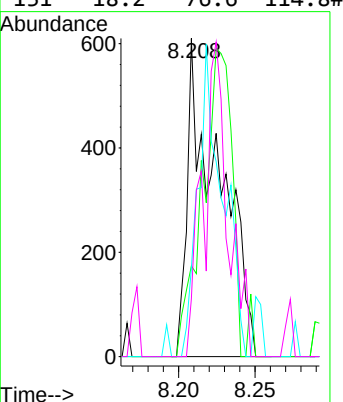
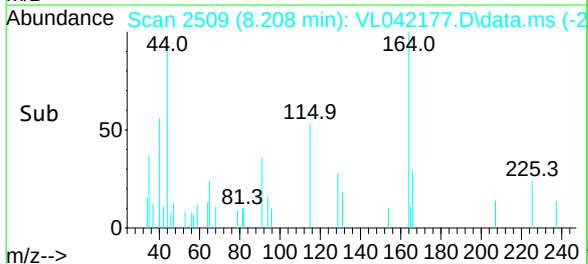
Instrument : MSVOA\_L  
 ClientSampleId : VSTDIC0.03



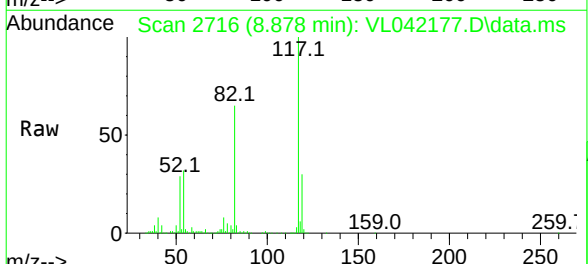
Tgt Ion: 164 Resp: 880

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 164 | 100   |       |        |
| 166 | 28.5  | 102.5 | 153.7# |
| 129 | 27.7  | 79.8  | 119.8# |
| 131 | 18.2  | 76.6  | 114.8# |

Manual Integrations  
**APPROVED**  
 Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

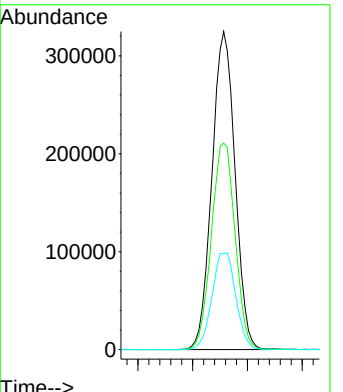
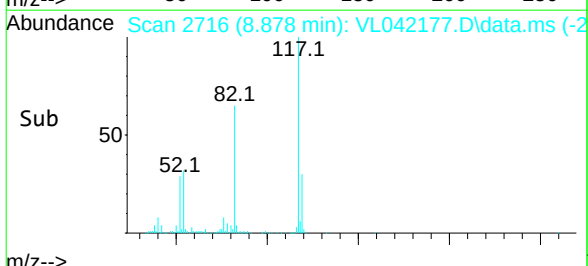


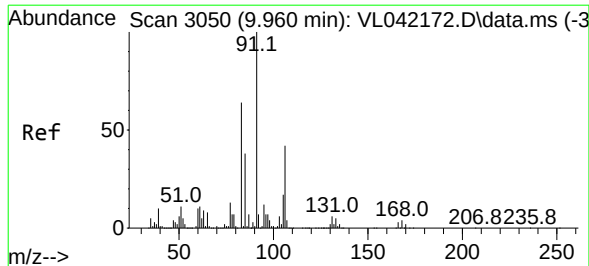
#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 8.878 min Scan# 2716  
 Delta R.T. 0.003 min  
 Lab File: VL042177.D  
 Acq: 27 Mar 2025 11:03



Tgt Ion: 117 Resp: 475617

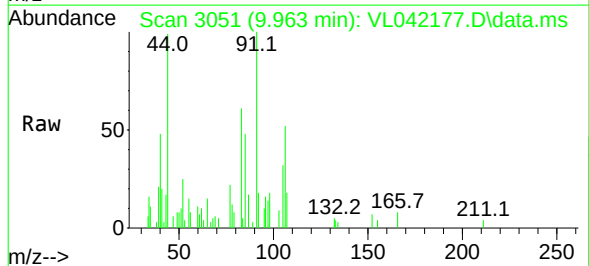
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 66.7  | 55.8  | 83.6  |
| 119 | 31.5  | 25.5  | 38.3  |





#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.034 ppbv m  
RT: 9.963 min Scan# 3050  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

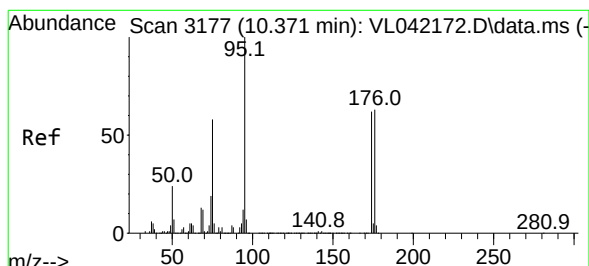
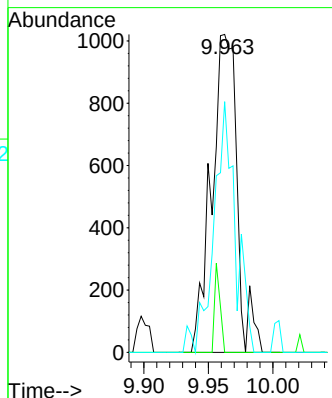
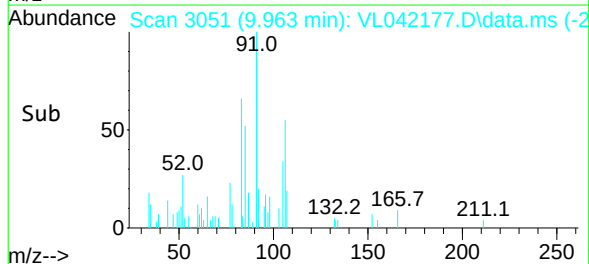
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03



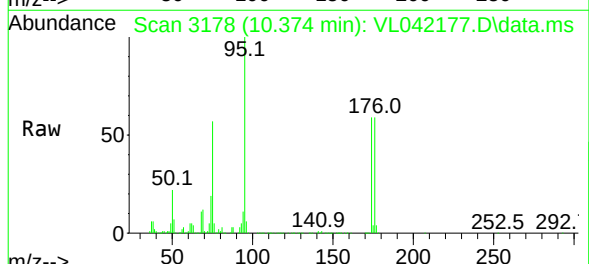
Tgt Ion: 83 Resp: 1407  
Ion Ratio Lower Upper  
83 100  
131 6.0 4.8 14.4  
85 67.2 32.5 97.5

Manual Integrations  
APPROVED

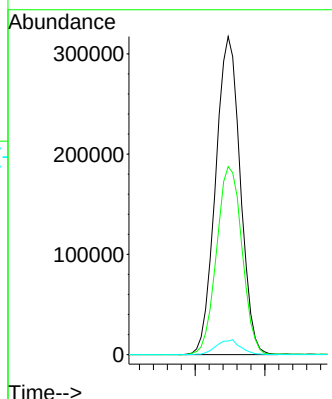
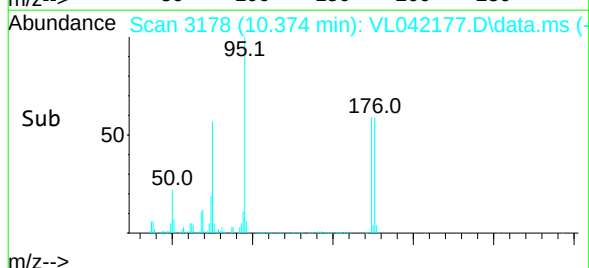
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.983 ppbv  
RT: 10.374 min Scan# 3178  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03



Tgt Ion: 95 Resp: 389935  
Ion Ratio Lower Upper  
95 100  
174 61.2 50.6 76.0  
175 4.6 3.8 5.6





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 : 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\_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   | 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

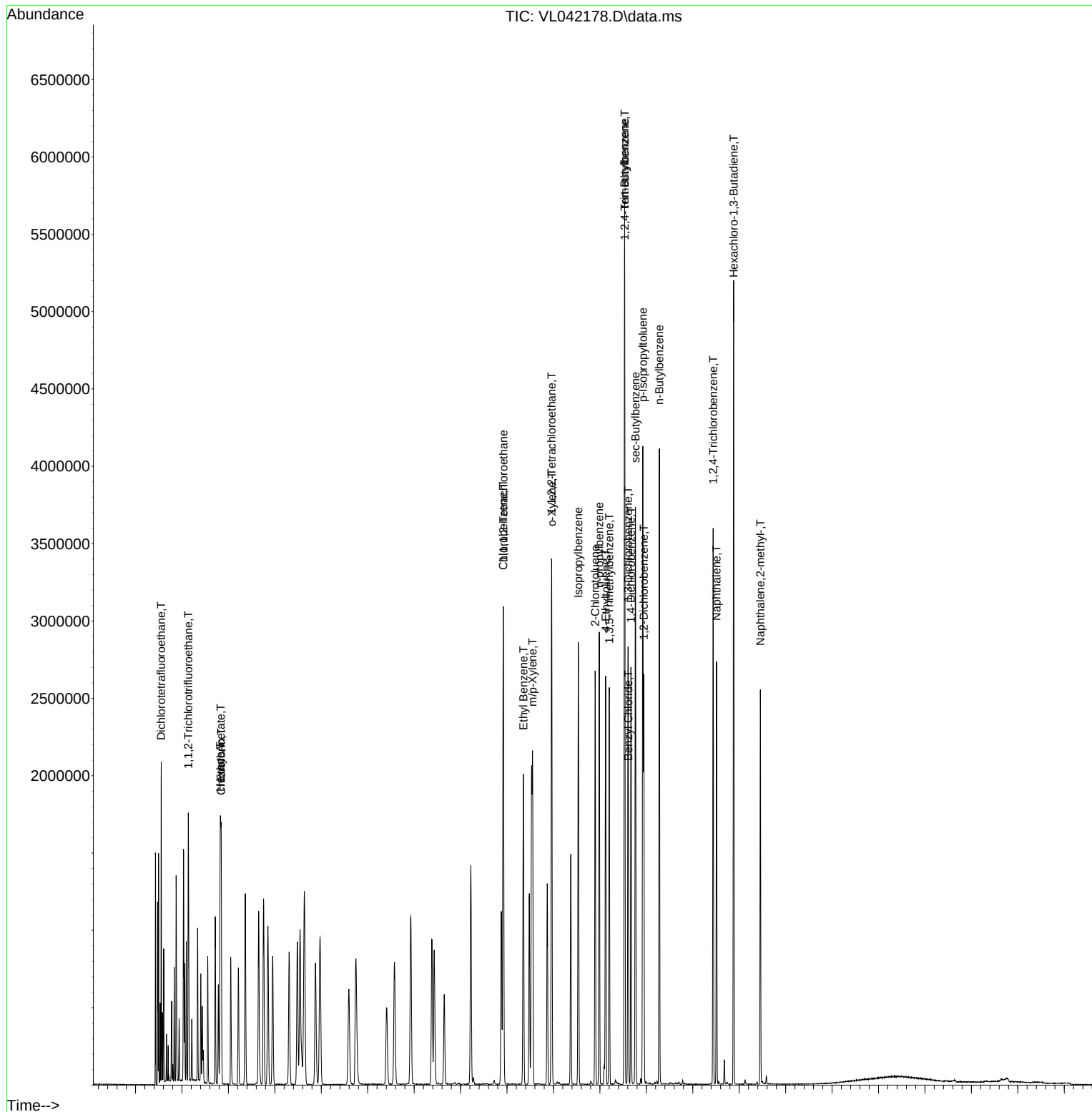
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042178.D  
Acq On : 27 Mar 2025 11:36  
Operator : SY/MD  
Sample : VSTDICC015  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

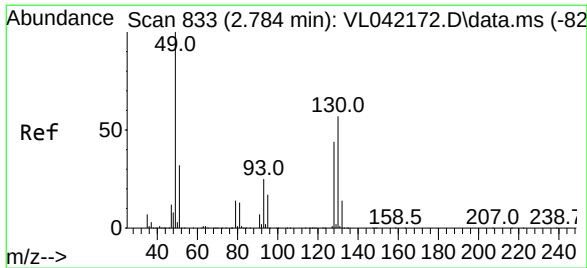
**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICC015

## Manual Integrations

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

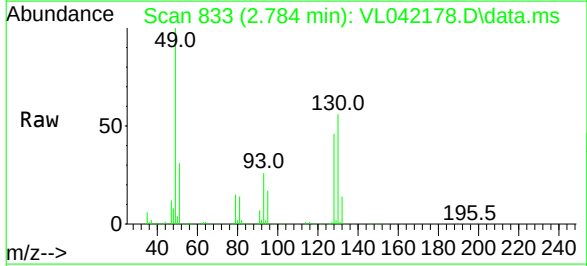
Quant Time: Mar 28 01:37:01 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 833  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

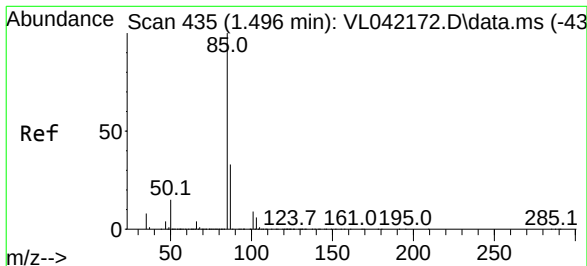
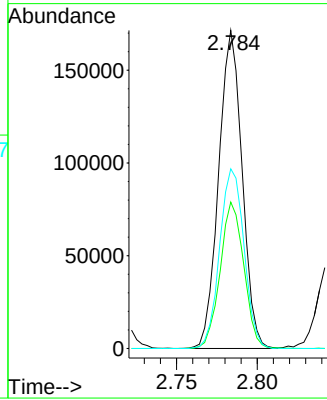
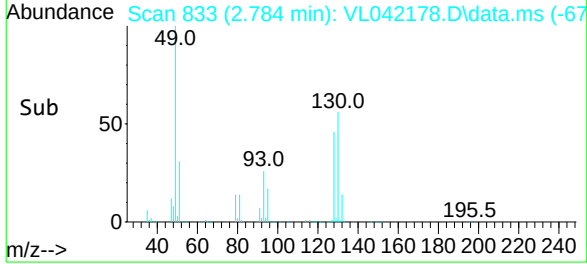
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



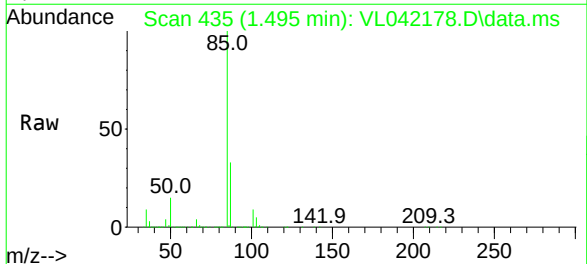
Tgt Ion: 49 Resp: 173372  
Ion Ratio Lower Upper  
49 100  
128 46.4 22.9 68.5  
130 58.7 28.8 86.4

Manual Integrations  
APPROVED

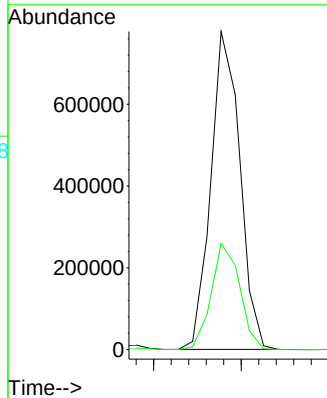
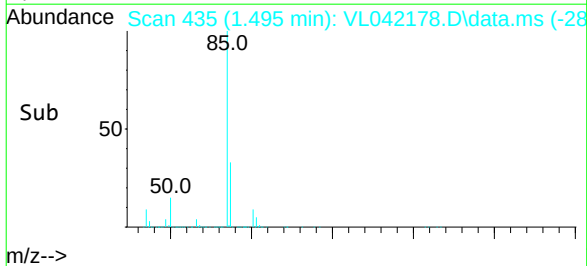
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

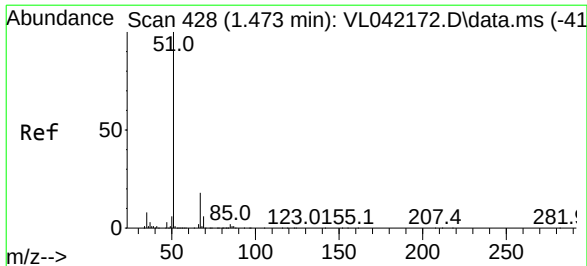


#2  
Dichlorodifluoromethane  
Concen: 14.023 ppbv  
RT: 1.495 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36



Tgt Ion: 85 Resp: 358962  
Ion Ratio Lower Upper  
85 100  
87 33.4 26.1 39.1





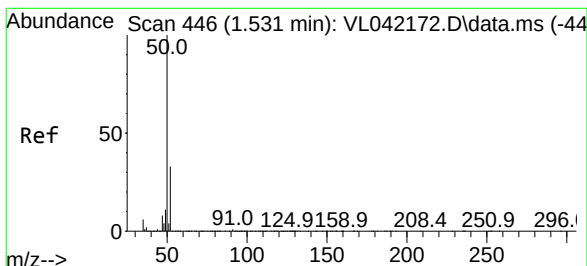
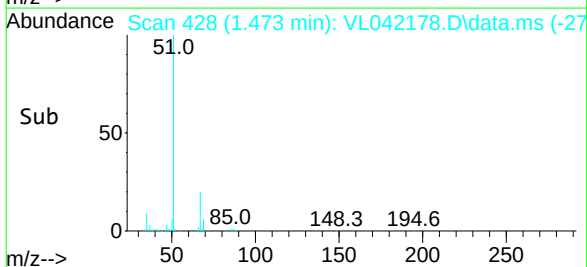
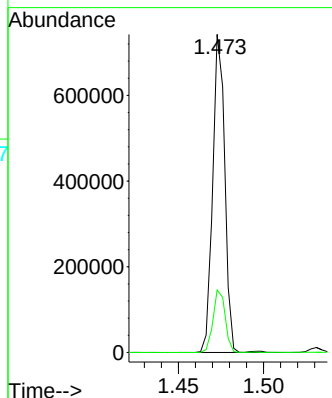
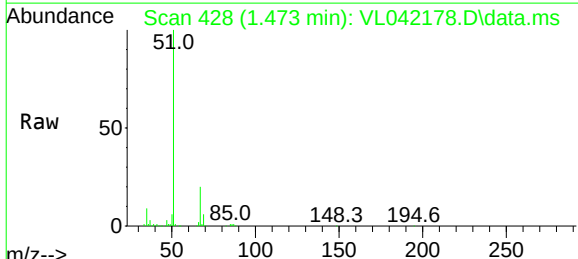
#3  
Chlorodifluoromethane  
Concen: 14.002 ppbv  
RT: 1.473 min Scan# 428  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 51 Resp: 366164  
Ion Ratio Lower Upper  
51 100  
67 19.8 15.0 22.6

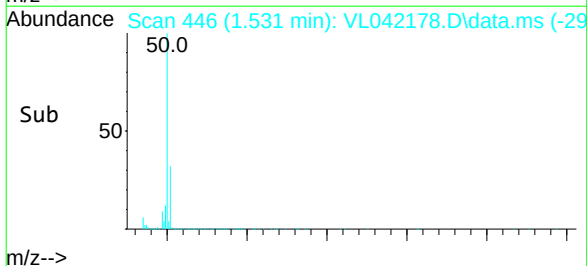
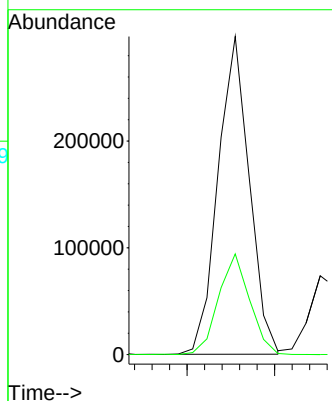
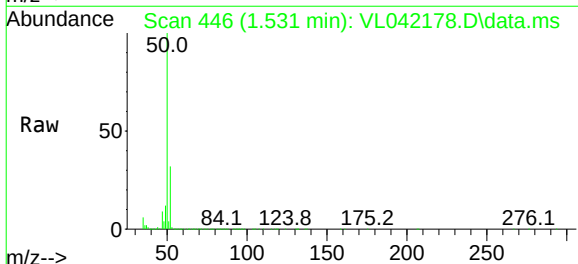
Manual Integrations  
APPROVED

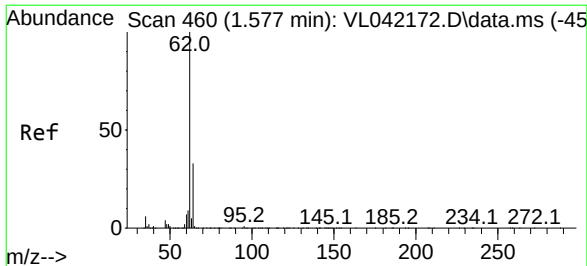
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#4  
Chloromethane  
Concen: 14.160 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 50 Resp: 148133  
Ion Ratio Lower Upper  
50 100  
52 31.6 26.1 39.1





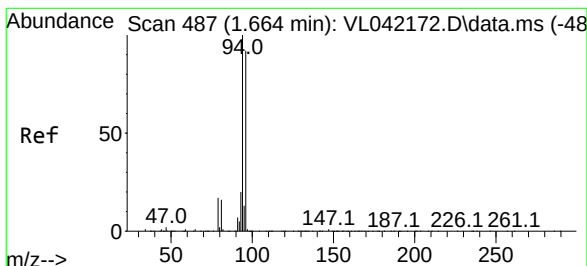
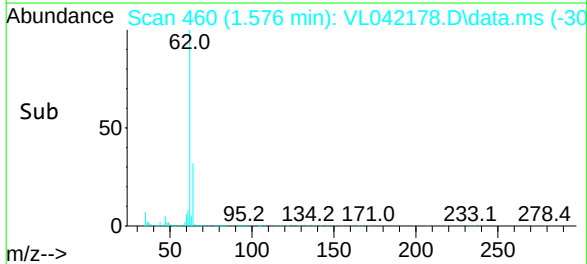
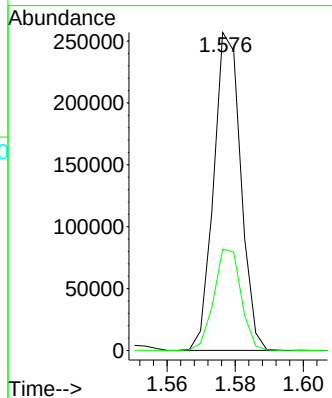
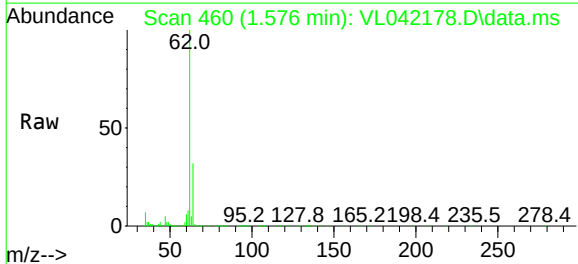
#5  
 Vinyl Chloride  
 Concen: 13.304 ppbv  
 RT: 1.576 min Scan# 460  
 Delta R.T. -0.000 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

Tgt Ion: 62 Resp: 141938  
 Ion Ratio Lower Upper  
 62 100  
 64 31.9 26.6 40.0

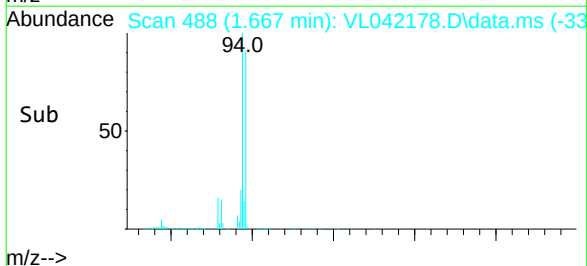
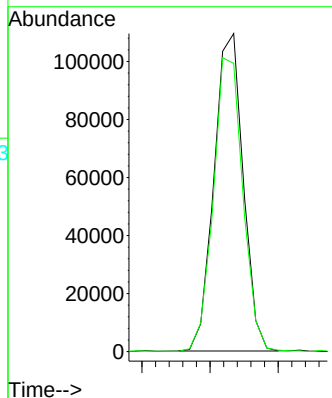
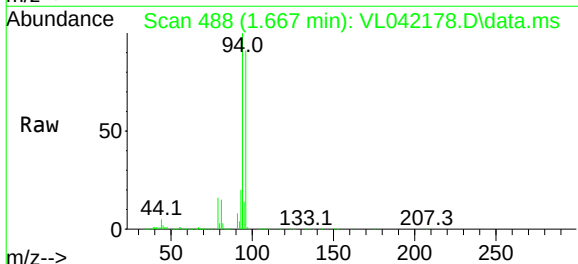
Manual Integrations  
 APPROVED

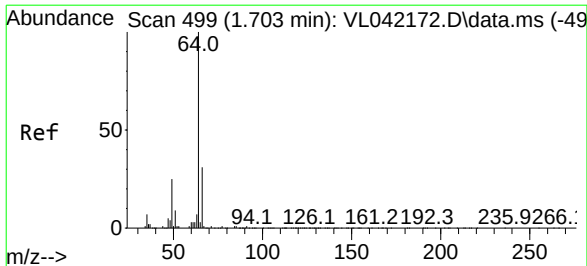
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#6  
 Bromomethane  
 Concen: 13.734 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. 0.003 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

Tgt Ion: 94 Resp: 65113  
 Ion Ratio Lower Upper  
 94 100  
 96 90.7 73.1 109.7





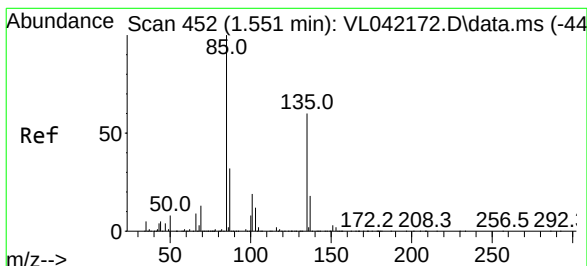
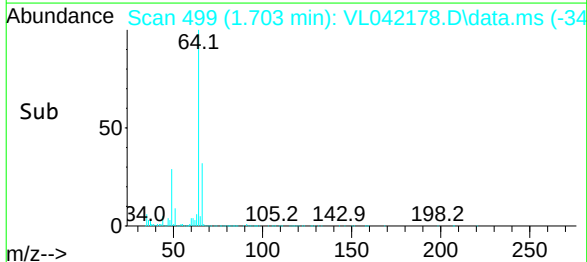
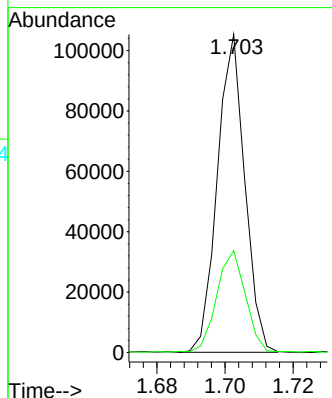
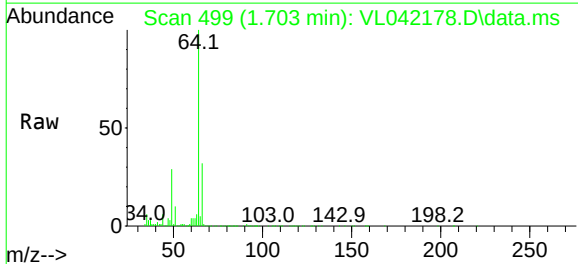
#7  
Chloroethane  
Concen: 14.007 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 64 Resp: 58820  
Ion Ratio Lower Upper  
64 100  
66 32.0 25.2 37.8

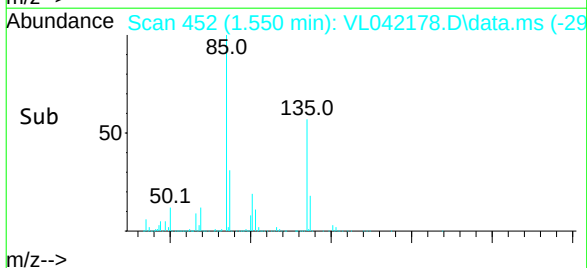
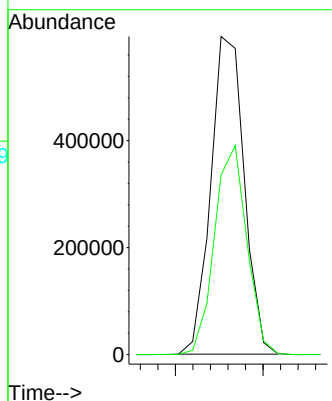
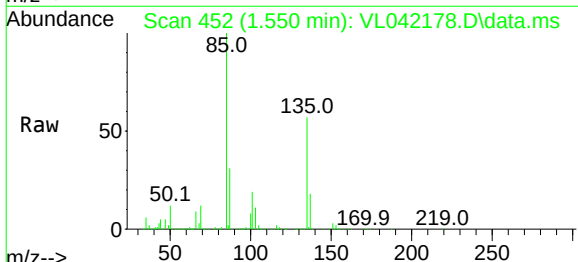
Manual Integrations  
APPROVED

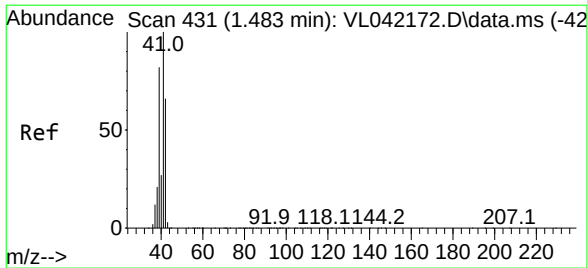
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#8  
Dichlorotetrafluoroethane  
Concen: 14.442 ppbv  
RT: 1.550 min Scan# 452  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

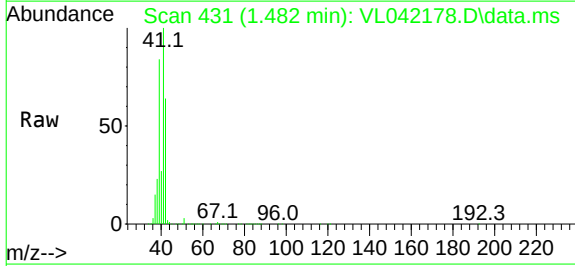
Tgt Ion: 85 Resp: 314834  
Ion Ratio Lower Upper  
85 100  
135 63.8 52.4 78.6





#9  
Propene  
Concen: 13.902 ppbv  
RT: 1.482 min Scan# 431  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

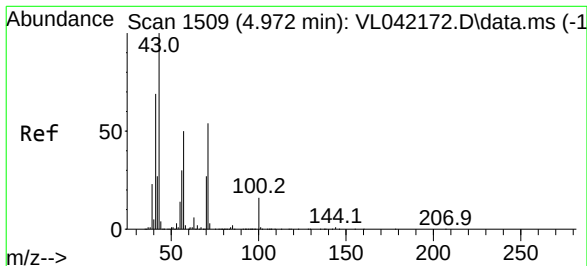
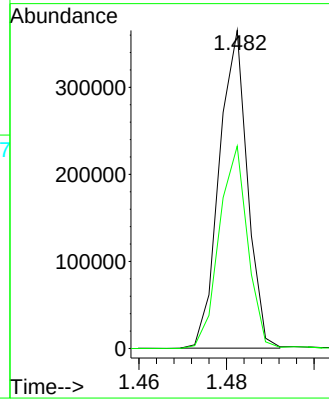
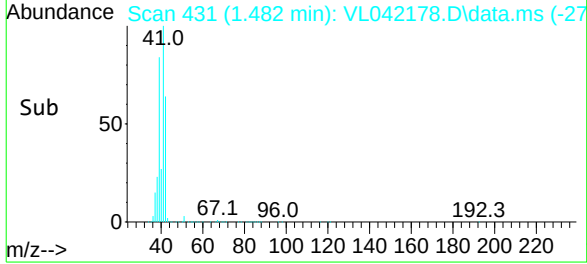
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



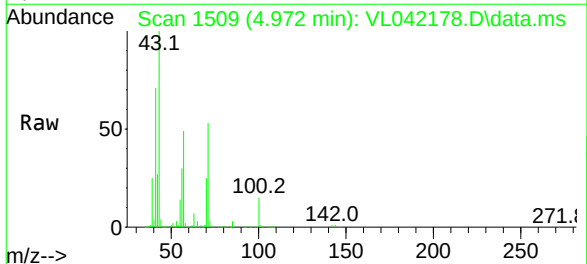
Tgt Ion: 41 Resp: 163799  
Ion Ratio Lower Upper  
41 100  
42 65.3 55.4 83.2

Manual Integrations  
APPROVED

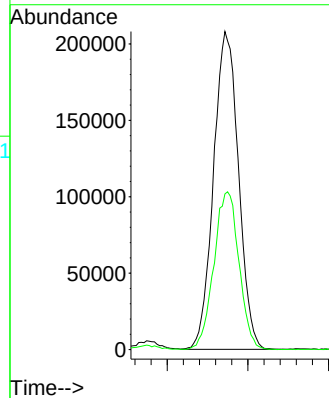
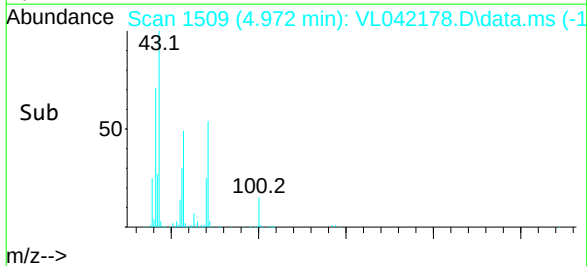
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



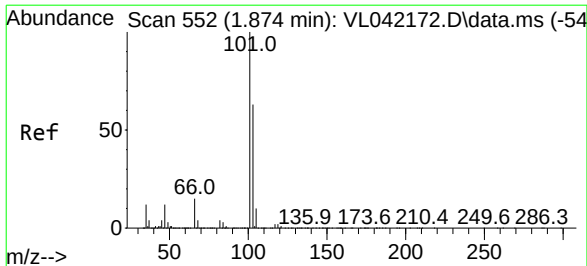
#10  
Heptane  
Concen: 14.019 ppbv  
RT: 4.972 min Scan# 1509  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36



Tgt Ion: 43 Resp: 446949  
Ion Ratio Lower Upper  
43 100  
57 49.9 39.4 59.2







#11  
Trichlorofluoromethane  
Concen: 14.050 ppbv  
RT: 1.874 min Scan# 552  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :

MSVOA\_L

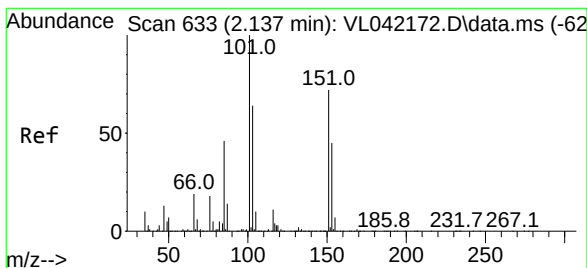
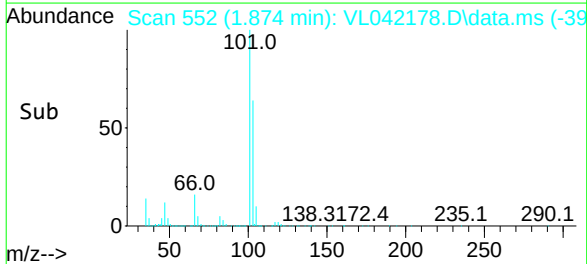
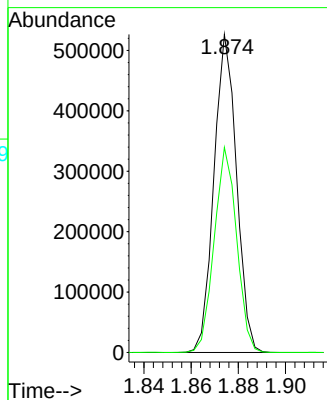
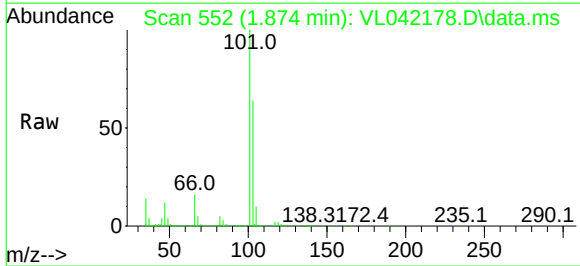
ClientSampleId :

VSTDIC015

Tgt Ion:101 Resp: 349967  
Ion Ratio Lower Upper  
101 100  
103 64.5 50.2 75.2

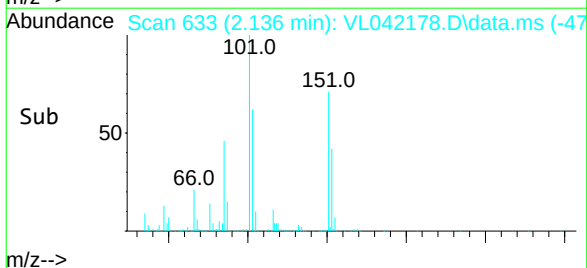
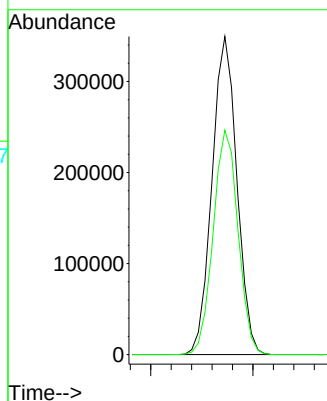
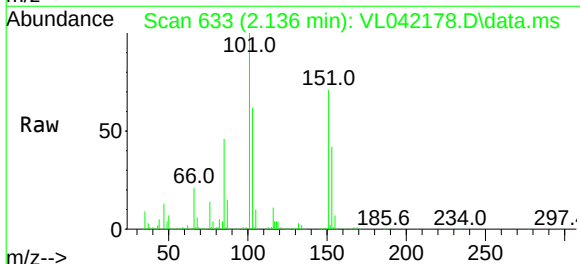
Manual Integrations  
APPROVED

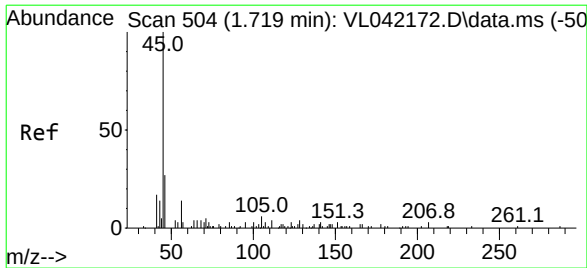
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 14.419 ppbv  
RT: 2.136 min Scan# 633  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion:101 Resp: 295217  
Ion Ratio Lower Upper  
101 100  
151 70.4 57.1 85.7





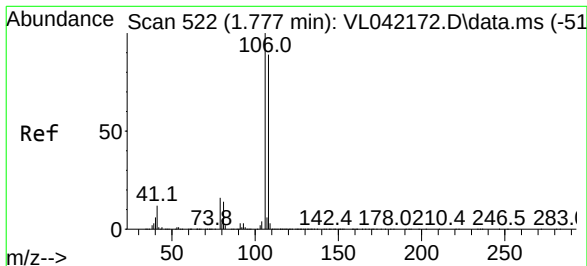
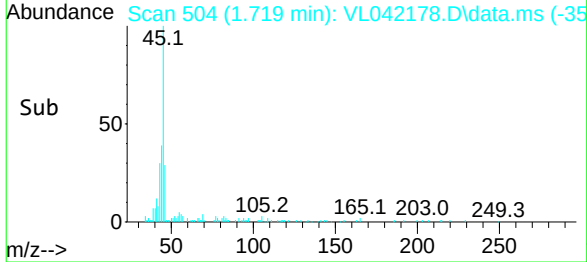
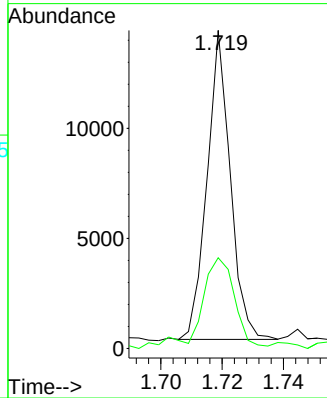
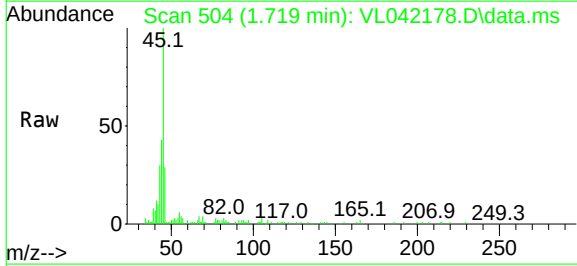
#13  
Ethanol  
Concen: 8.001 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 45 Resp: 7382  
Ion Ratio Lower Upper  
45 100  
46 44.6 20.2 80.8

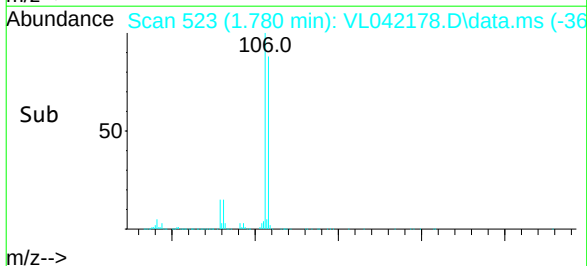
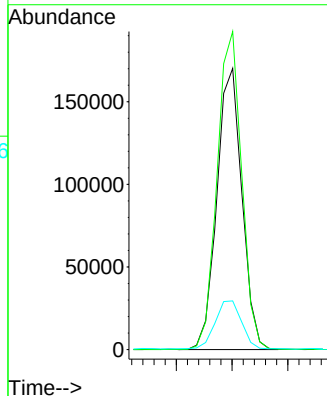
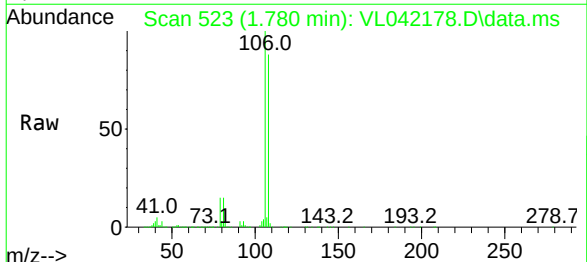
Manual Integrations  
APPROVED

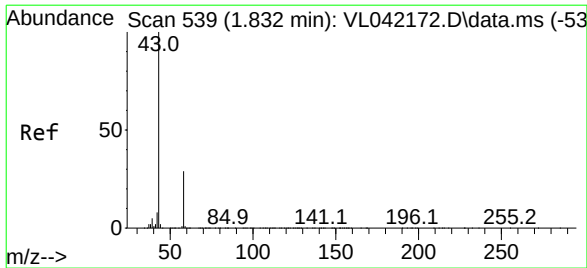
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#14  
Bromoethene  
Concen: 13.571 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion:108 Resp: 106436  
Ion Ratio Lower Upper  
108 100  
106 110.9 86.8 130.2  
79 18.8 15.0 22.6





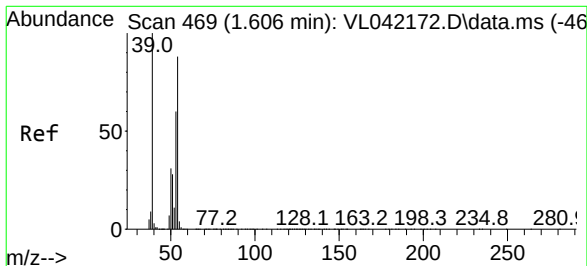
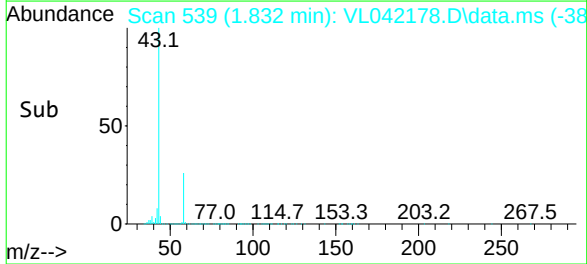
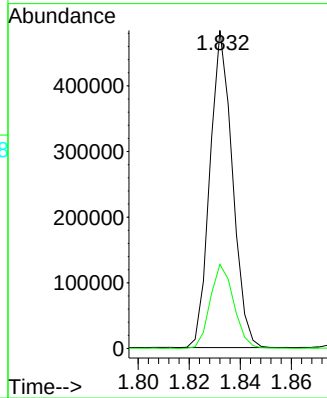
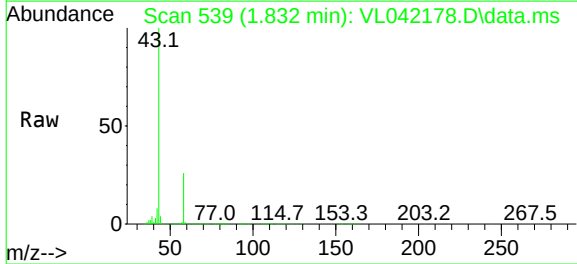
#15  
Acetone  
Concen: 12.218 ppbv  
RT: 1.832 min Scan# 539  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 43 Resp: 296254  
Ion Ratio Lower Upper  
43 100  
58 27.7 23.2 34.8

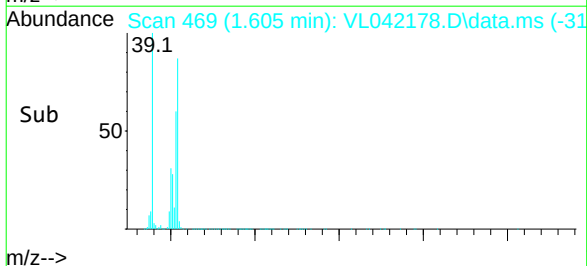
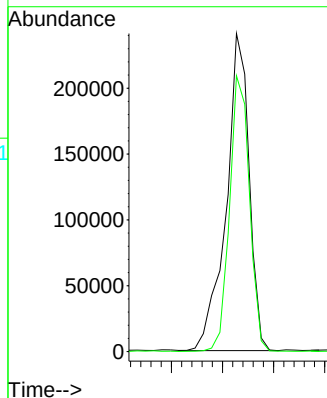
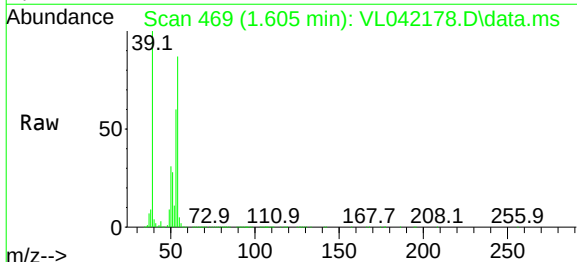
Manual Integrations  
APPROVED

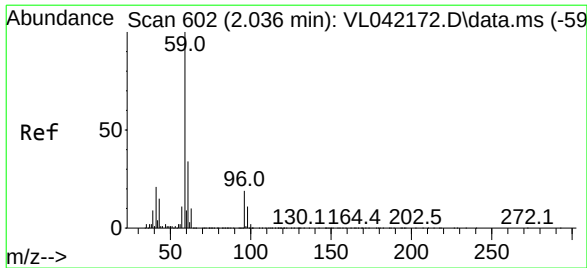
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#16  
1,3-Butadiene  
Concen: 13.766 ppbv  
RT: 1.605 min Scan# 469  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 39 Resp: 150122  
Ion Ratio Lower Upper  
39 100  
54 76.3 60.7 91.1





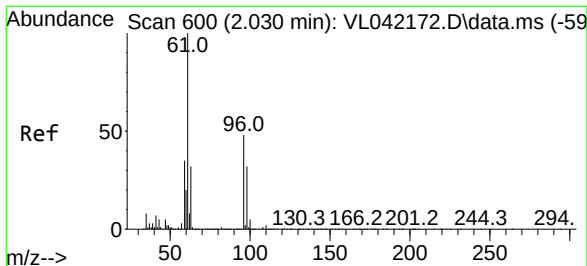
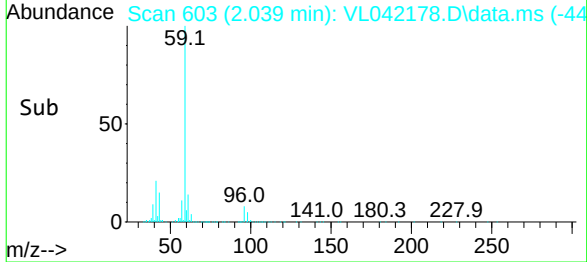
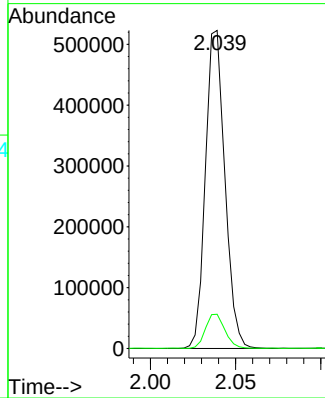
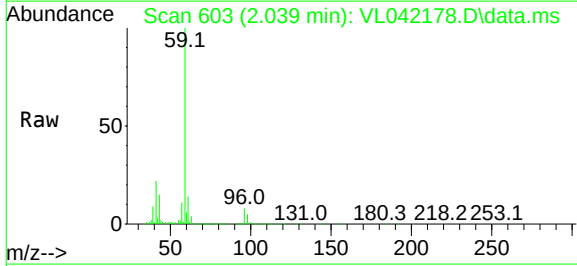
#17  
tert-Butyl alcohol  
Concen: 13.787 ppbv  
RT: 2.039 min Scan# 602  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 59 Resp: 416362  
Ion Ratio Lower Upper  
59 100  
57 10.8 8.9 13.3

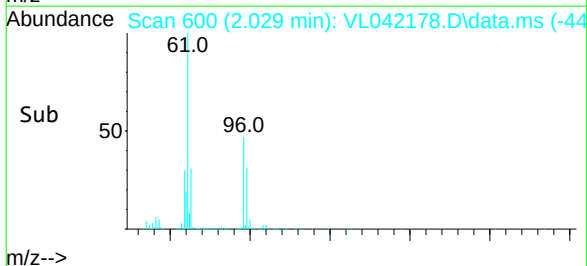
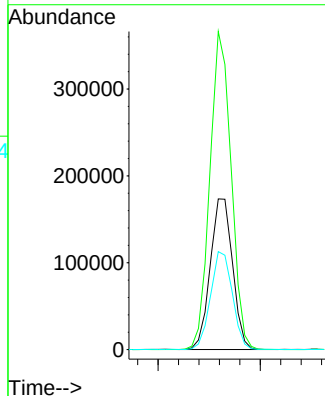
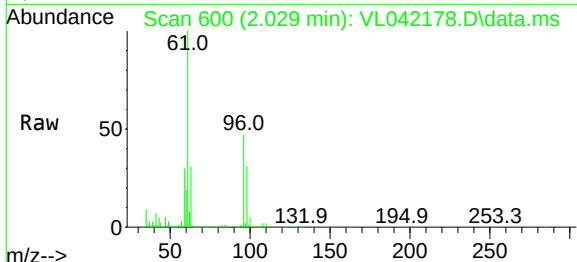
Manual Integrations  
APPROVED

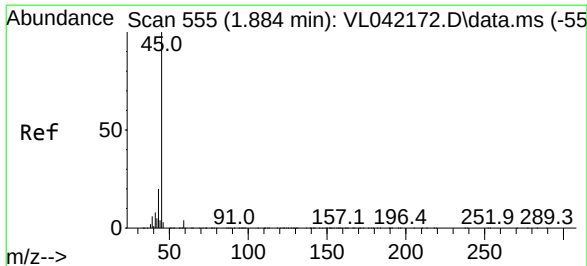
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#18  
1,1-Dichloroethene  
Concen: 13.762 ppbv  
RT: 2.029 min Scan# 600  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 96 Resp: 131720  
Ion Ratio Lower Upper  
96 100  
61 211.1 167.6 251.4  
98 64.9 53.5 80.3





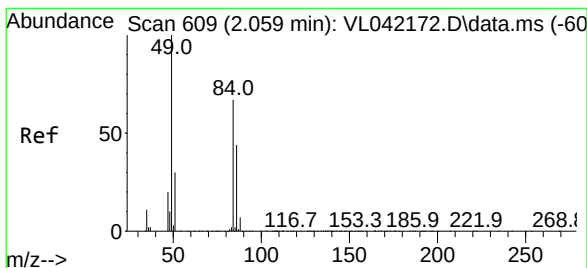
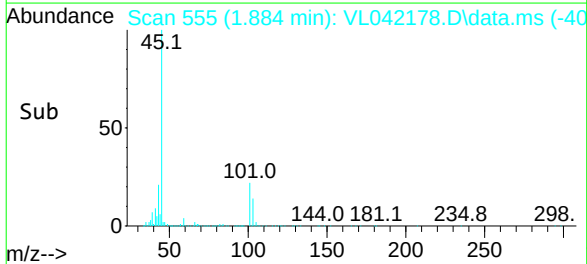
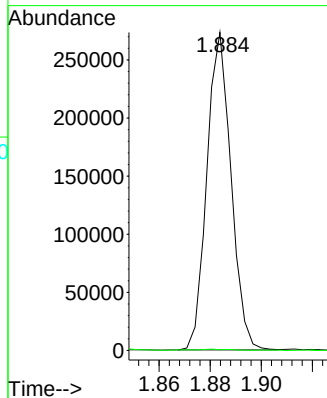
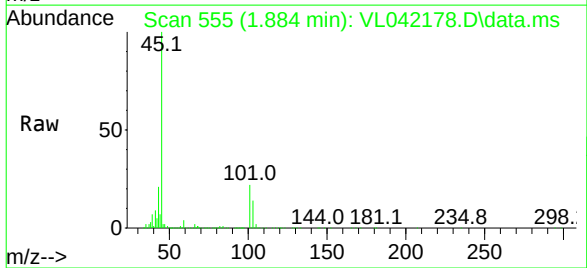
#19  
Isopropyl Alcohol  
Concen: 13.093 ppbv  
RT: 1.884 min Scan# 555  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 45 Resp: 179117  
Ion Ratio Lower Upper  
45 100  
58 46.4 36.9 55.3

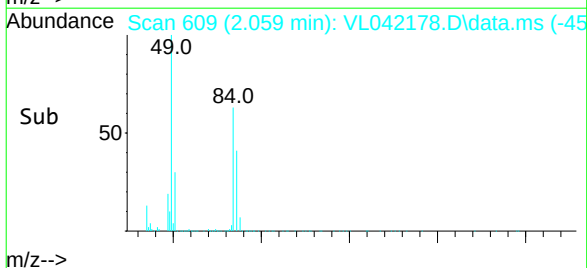
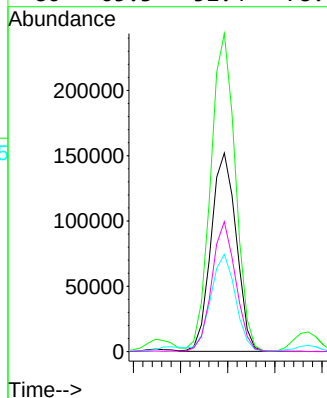
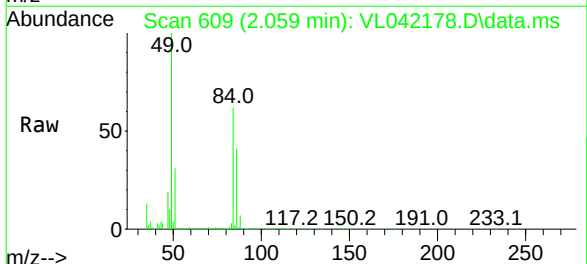
Manual Integrations  
APPROVED

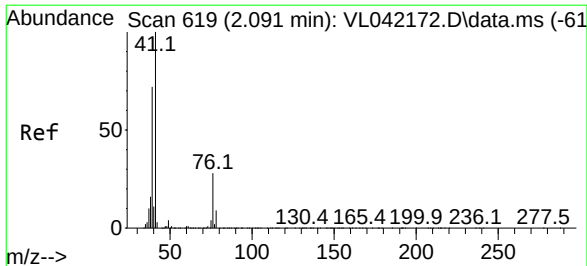
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#20  
Methylene Chloride  
Concen: 12.533 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 84 Resp: 113183  
Ion Ratio Lower Upper  
84 100  
49 159.7 120.2 180.4  
51 48.7 37.4 56.0  
86 65.3 52.4 78.6





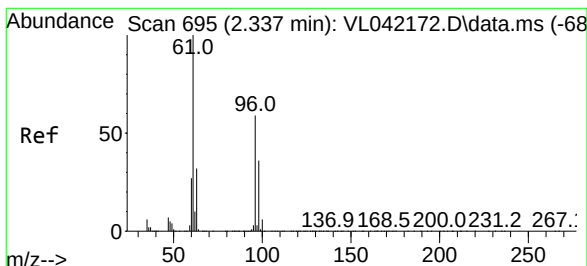
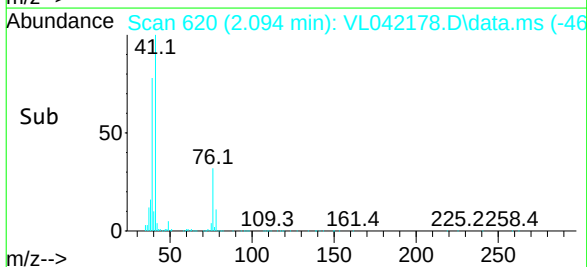
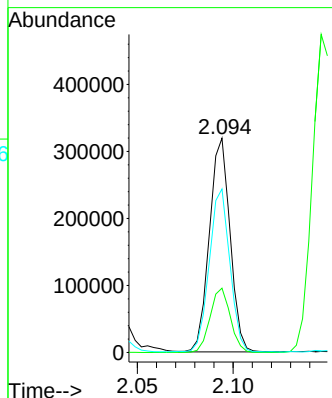
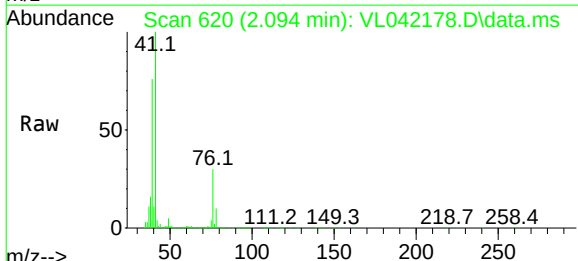
#21  
Allyl Chloride  
Concen: 14.002 ppbv  
RT: 2.094 min Scan# 621  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

|             |              |
|-------------|--------------|
| Tgt Ion: 41 | Resp: 239446 |
| Ion Ratio   | Lower Upper  |
| 41 100      |              |
| 76 29.5     | 24.1 36.1    |
| 39 76.1     | 61.1 91.7    |

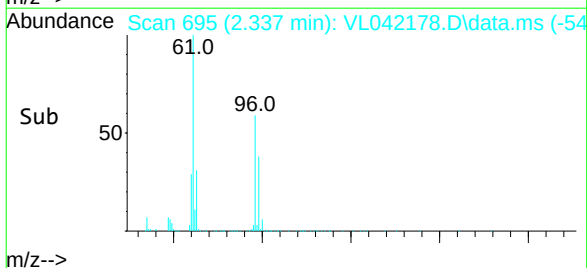
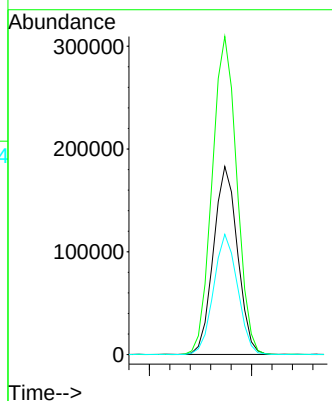
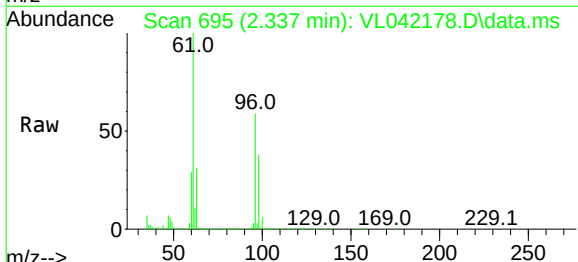
Manual Integrations  
APPROVED

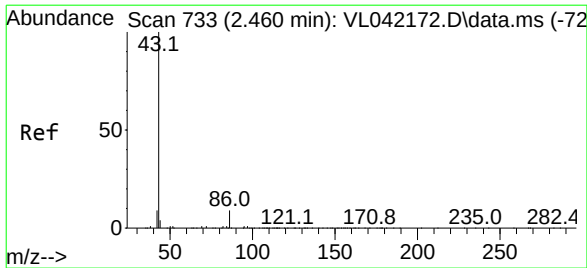
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#22  
trans-1,2-Dichloroethene  
Concen: 13.362 ppbv  
RT: 2.337 min Scan# 695  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

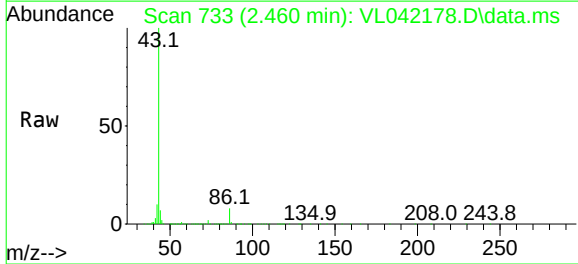
|             |              |
|-------------|--------------|
| Tgt Ion: 96 | Resp: 149455 |
| Ion Ratio   | Lower Upper  |
| 96 100      |              |
| 61 169.2    | 136.6 204.8  |
| 98 63.9     | 49.4 74.2    |





#23  
 Vinyl Acetate  
 Concen: 13.736 ppbv  
 RT: 2.460 min Scan# 733  
 Delta R.T. -0.000 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

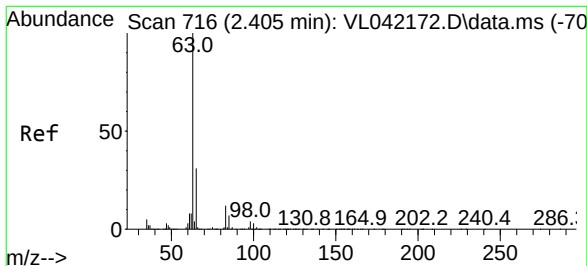
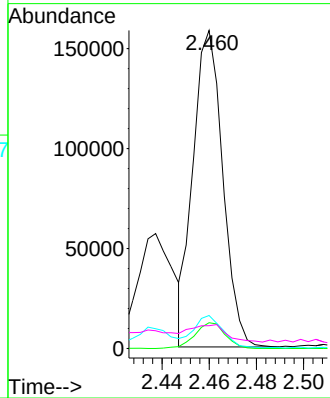
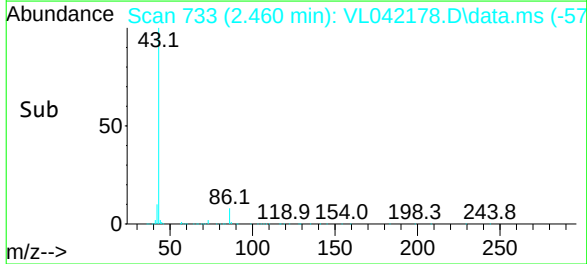
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015



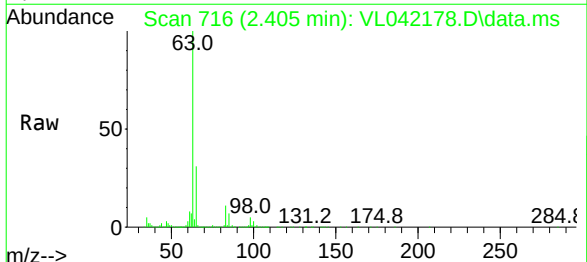
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 138419 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 86 8.1      | 5.5 8.3      |
| 42 10.1     | 8.6 13.0     |
| 44 5.0      | 6.2 9.4      |

Manual Integrations  
 APPROVED

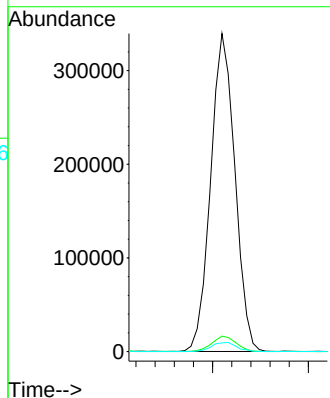
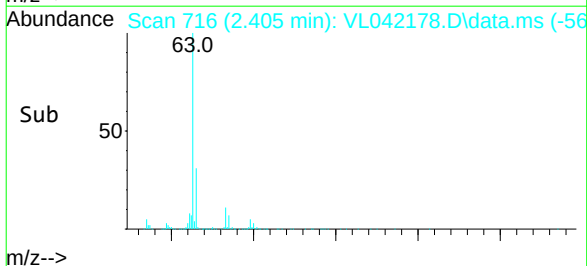
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

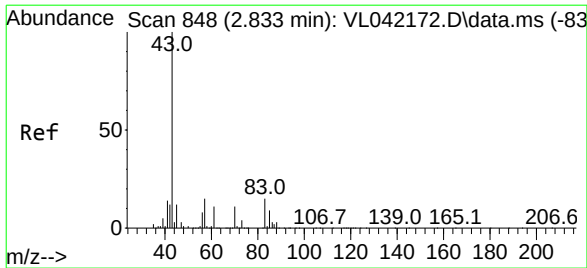


#24  
 1,1-Dichloroethane  
 Concen: 14.570 ppbv  
 RT: 2.405 min Scan# 716  
 Delta R.T. -0.000 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36



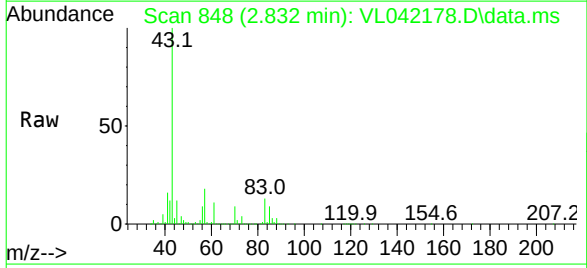
|             |              |
|-------------|--------------|
| Tgt Ion: 63 | Resp: 298760 |
| Ion Ratio   | Lower Upper  |
| 63 100      |              |
| 98 4.9      | 2.3 6.8      |
| 100 2.7     | 1.6 4.7      |





#25  
Ethyl Acetate  
Concen: 13.855 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

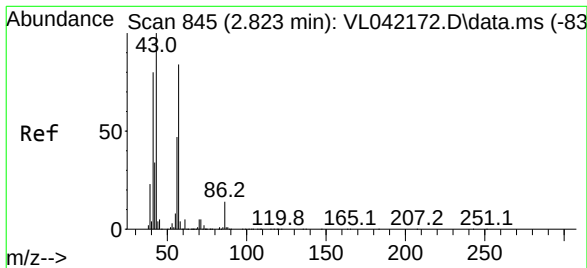
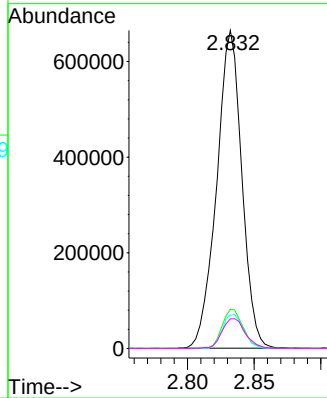
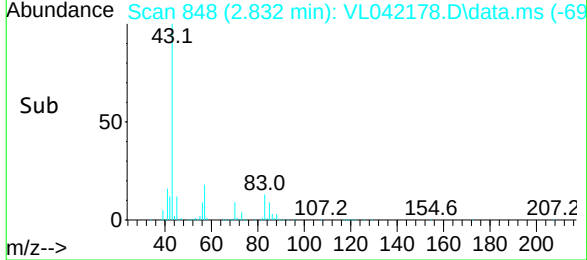
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



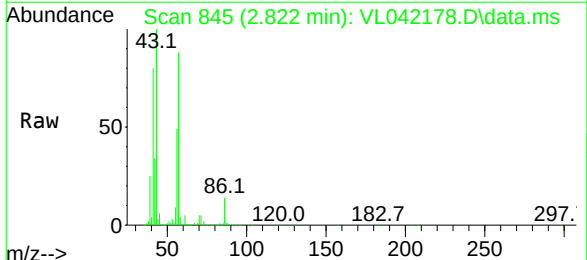
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 871882 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 45 10.3     | 8.2 12.2     |
| 61 9.0      | 7.3 10.9     |
| 70 8.8      | 7.2 10.8     |

Manual Integrations  
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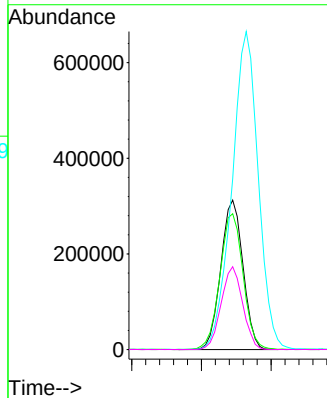
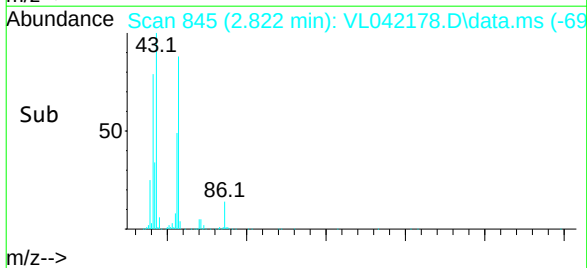
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



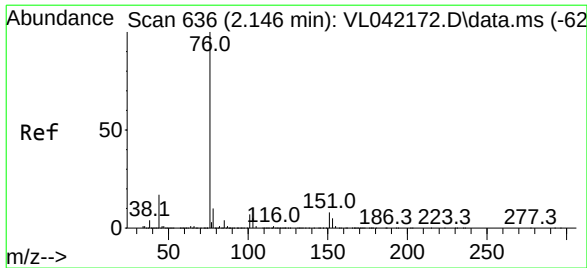
#26  
Hexane  
Concen: 14.178 ppbv  
RT: 2.822 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36



|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 344636 |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 96.1     | 76.6 114.8   |
| 43 254.0    | 207.8 311.8  |
| 56 53.9     | 43.6 65.4    |

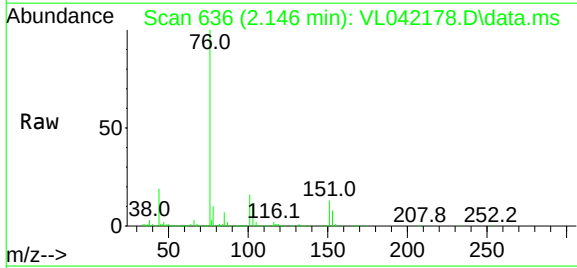






#27  
Carbon Disulfide  
Concen: 14.196 ppbv  
RT: 2.146 min Scan# 636  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

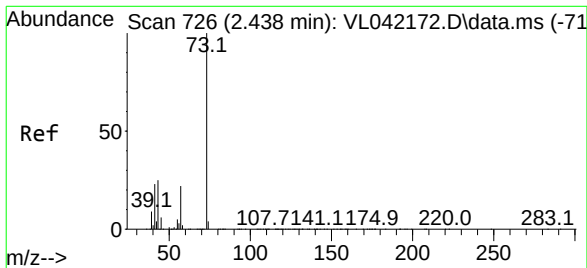
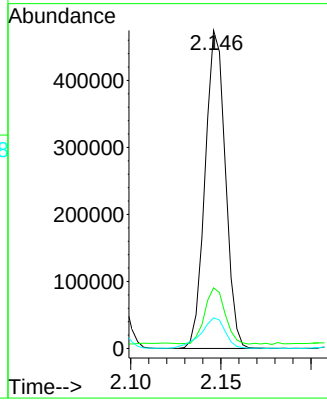
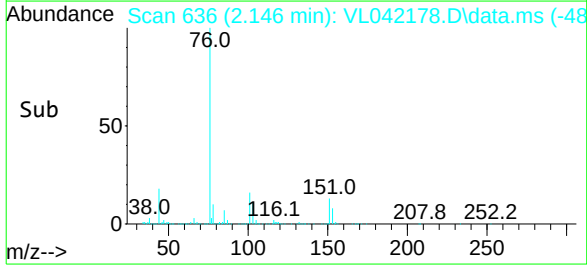
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC015



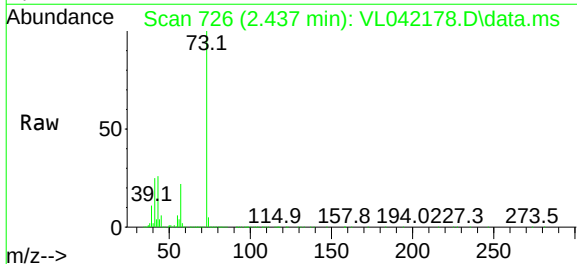
Tgt Ion: 76 Resp: 370022  
Ion Ratio Lower Upper  
76 100  
44 20.3 14.7 22.1  
78 11.7 9.3 13.9

Manual Integrations  
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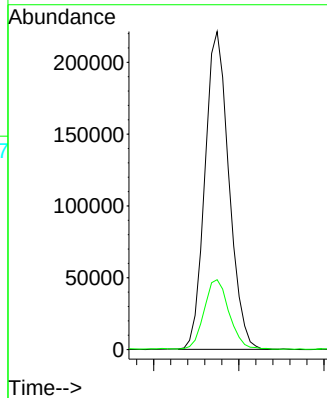
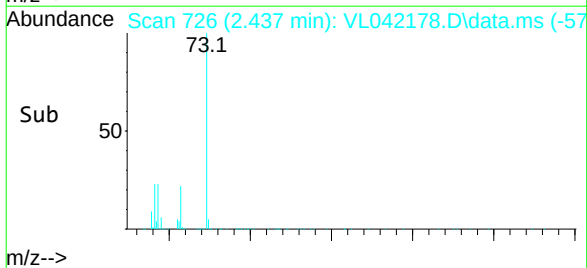
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

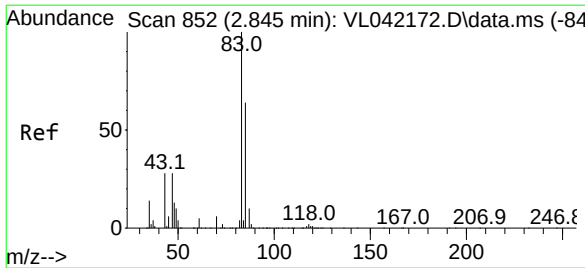


#28  
Methyl tert-Butyl Ether  
Concen: 14.303 ppbv  
RT: 2.437 min Scan# 726  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36



Tgt Ion: 73 Resp: 216463  
Ion Ratio Lower Upper  
73 100  
57 23.2 20.5 30.7





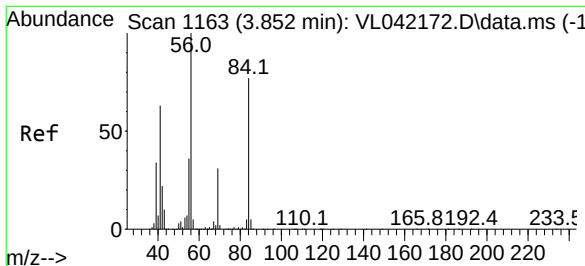
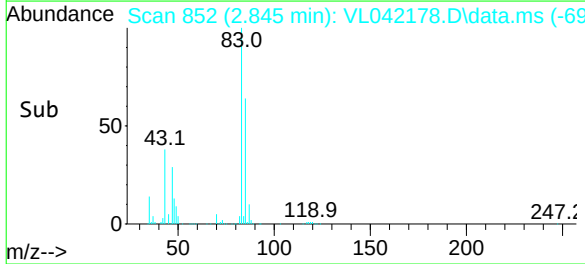
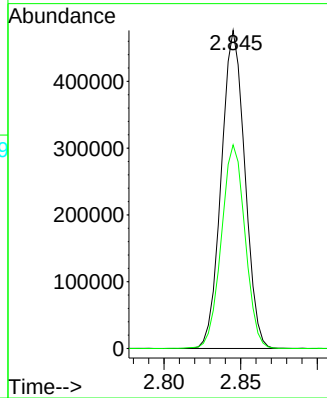
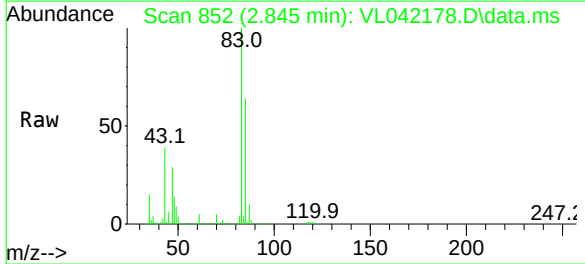
#29  
Chloroform  
Concen: 14.297 ppbv  
RT: 2.845 min Scan# 85  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 83 Resp: 508614  
Ion Ratio Lower Upper  
83 100  
85 64.0 51.4 77.2

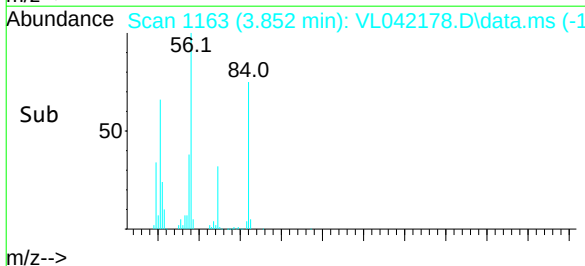
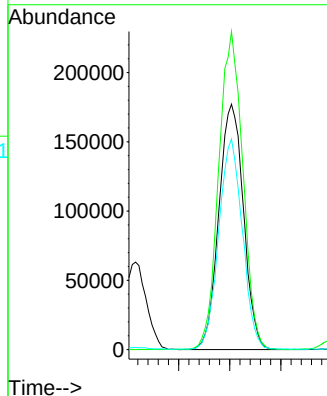
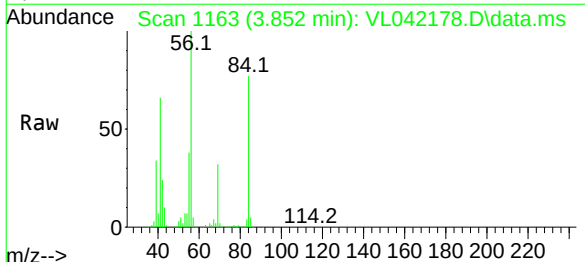
Manual Integrations  
APPROVED

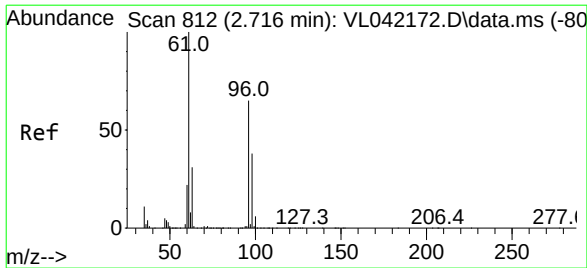
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#30  
Cyclohexane  
Concen: 14.040 ppbv  
RT: 3.852 min Scan# 1163  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 84 Resp: 296458  
Ion Ratio Lower Upper  
84 100  
56 126.7 102.8 154.2  
41 82.6 66.5 99.7





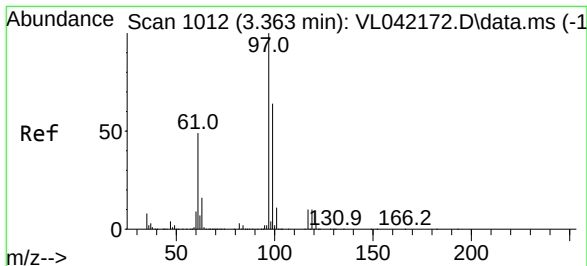
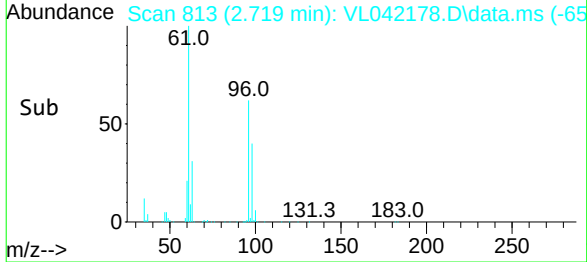
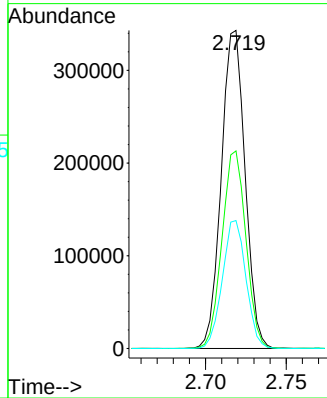
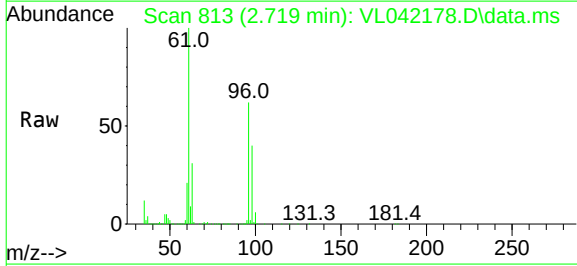
#31  
cis-1,2-Dichloroethene  
Concen: 14.262 ppbv  
RT: 2.719 min Scan# 812  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

| Tgt Ion: | 61    | Resp: | 351945 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 61       | 100   |       |        |
| 96       | 62.1  | 51.8  | 77.8   |
| 98       | 40.2  | 30.6  | 46.0   |

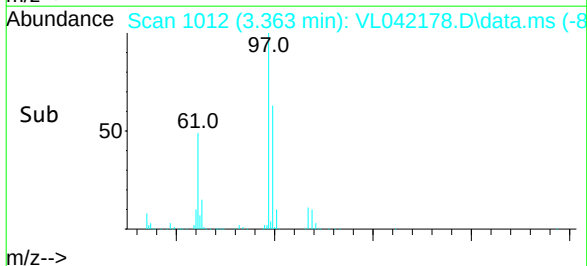
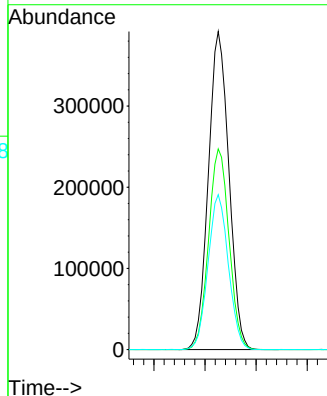
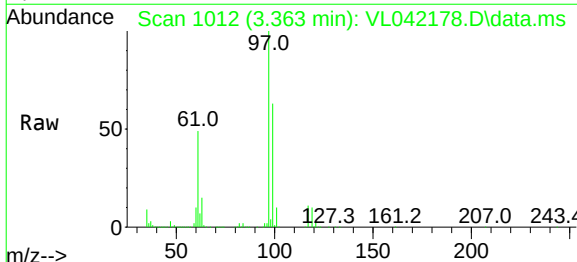
Manual Integrations  
APPROVED

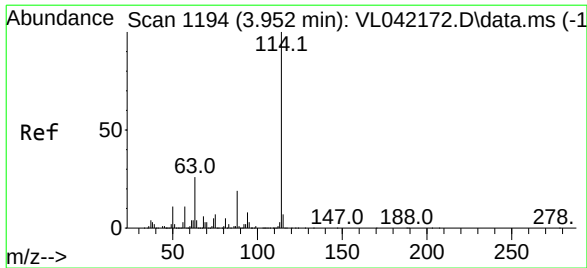
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#32  
1,1,1-Trichloroethane  
Concen: 13.448 ppbv  
RT: 3.363 min Scan# 1012  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

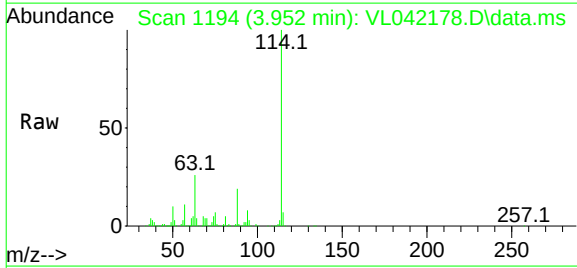
| Tgt Ion: | 97    | Resp: | 547329 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 62.8  | 51.5  | 77.3   |
| 61       | 48.4  | 38.7  | 58.1   |





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.952 min Scan# 1194  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

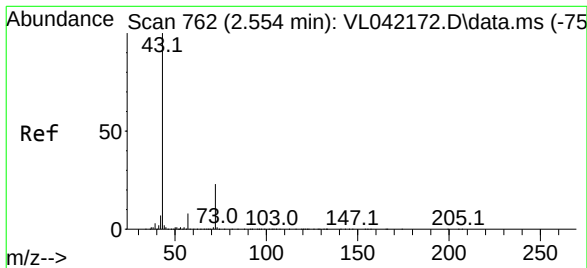
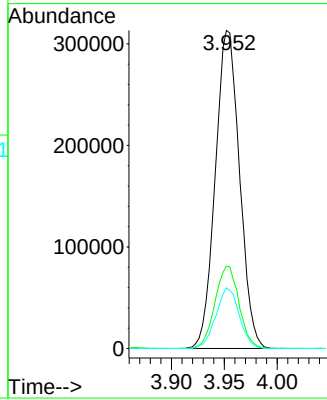
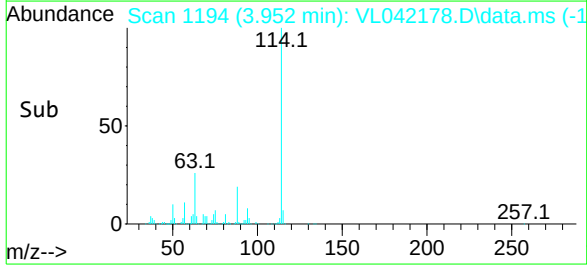
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



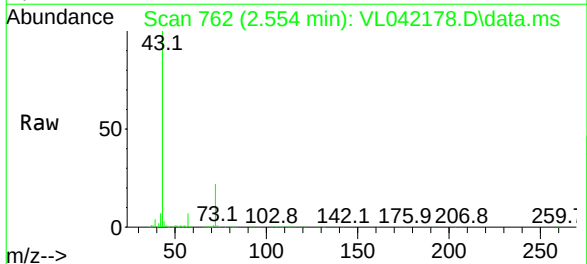
Tgt Ion: 114 Resp: 499360  
Ion Ratio Lower Upper  
114 100  
63 25.7 20.7 31.1  
88 18.4 15.0 22.4

Manual Integrations  
APPROVED

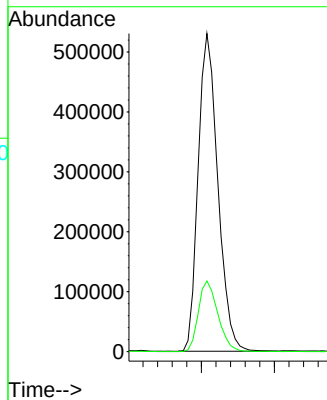
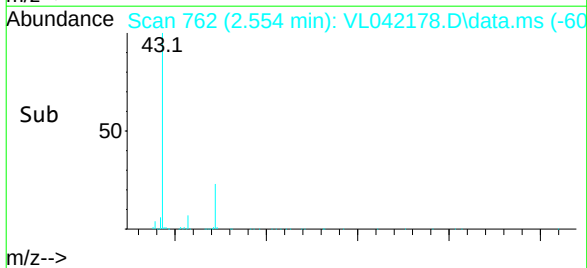
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

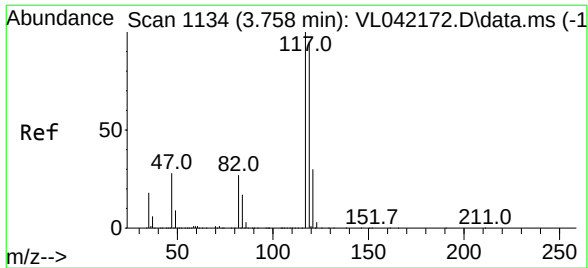


#34  
2-Butanone  
Concen: 13.726 ppbv  
RT: 2.554 min Scan# 762  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36



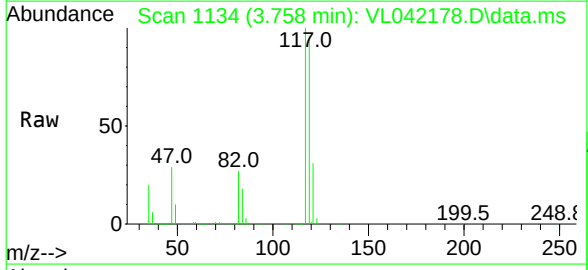
Tgt Ion: 43 Resp: 497020  
Ion Ratio Lower Upper  
43 100  
72 22.0 18.2 27.2





#35  
Carbon Tetrachloride  
Concen: 14.140 ppbv  
RT: 3.758 min Scan# 1134  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

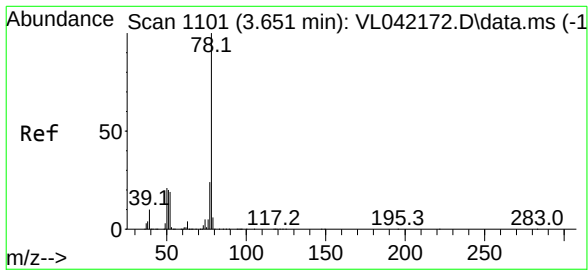
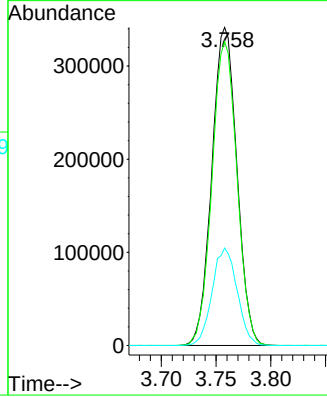
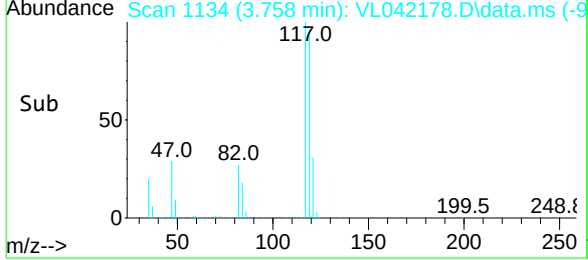
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



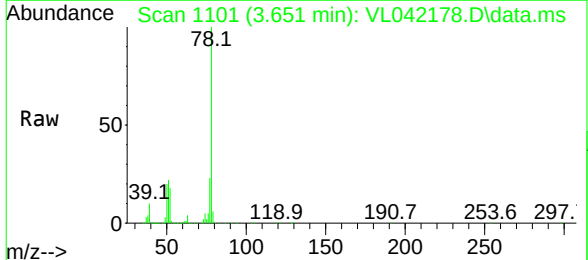
Tgt Ion: 117 Resp: 543385  
Ion Ratio Lower Upper  
117 100  
119 95.5 76.2 114.2  
121 30.6 24.2 36.4

Manual Integrations  
APPROVED

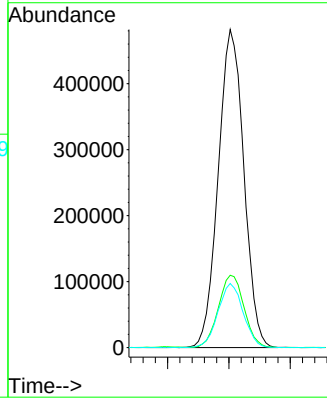
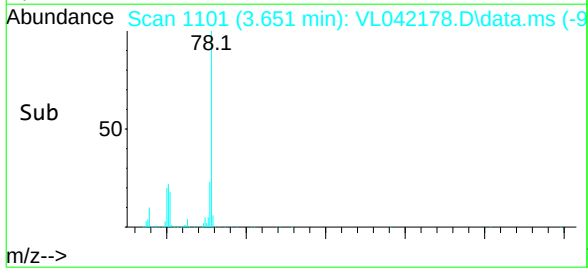
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

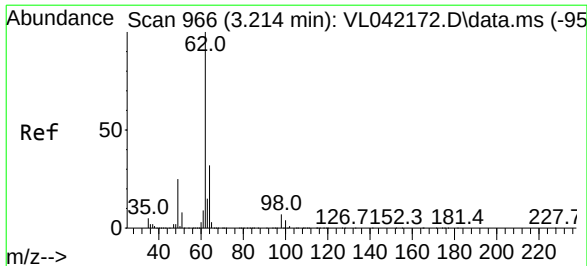


#36  
Benzene  
Concen: 14.131 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36



Tgt Ion: 78 Resp: 699549  
Ion Ratio Lower Upper  
78 100  
77 22.7 19.1 28.7  
50 20.1 16.6 24.8





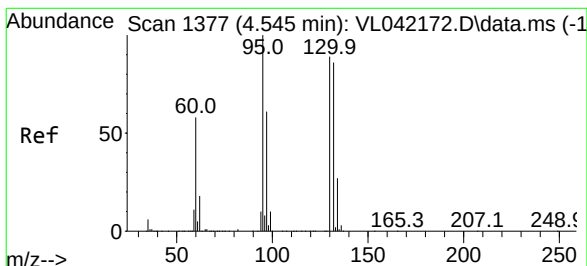
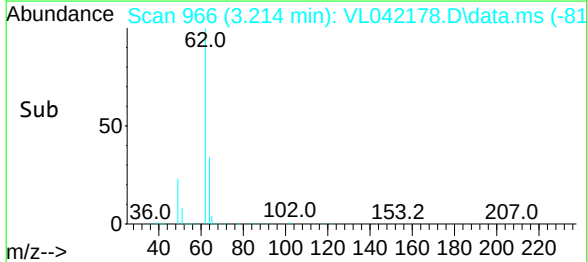
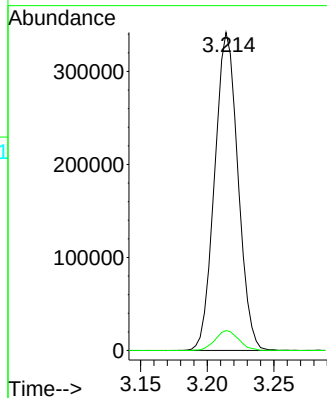
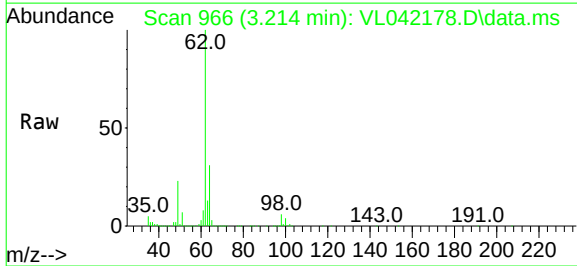
#37  
1,2-Dichloroethane  
Concen: 14.697 ppbv  
RT: 3.214 min Scan# 966  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 62 Resp: 416544  
Ion Ratio Lower Upper  
62 100  
98 6.4 5.4 8.2

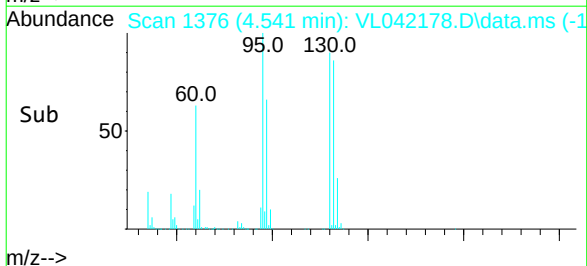
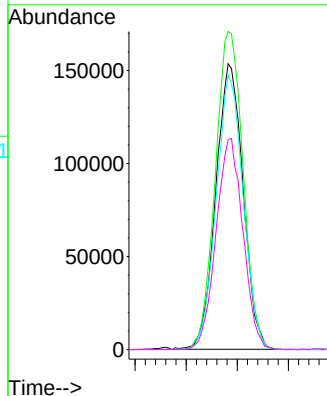
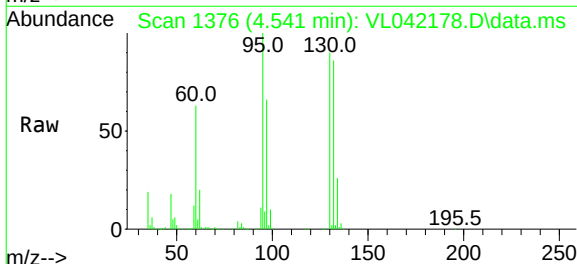
Manual Integrations  
APPROVED

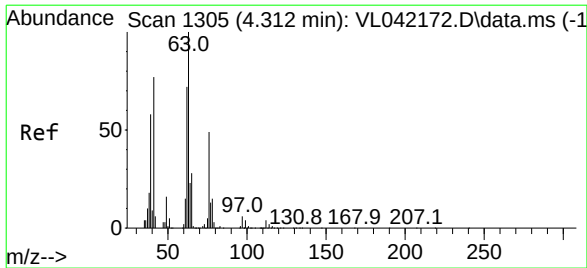
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#38  
Trichloroethene  
Concen: 13.715 ppbv  
RT: 4.541 min Scan# 1376  
Delta R.T. -0.004 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion:130 Resp: 283430  
Ion Ratio Lower Upper  
130 100  
95 111.3 89.8 134.8  
132 96.0 77.4 116.2  
97 73.5 55.1 82.7





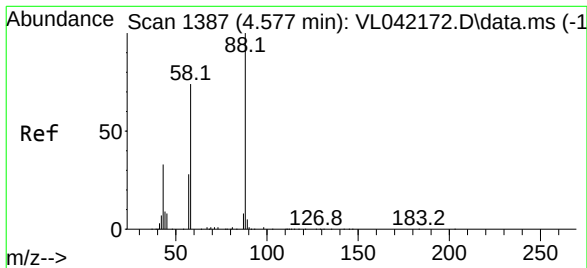
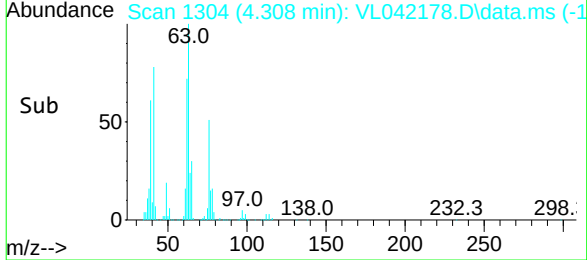
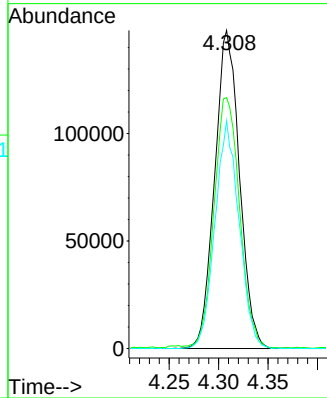
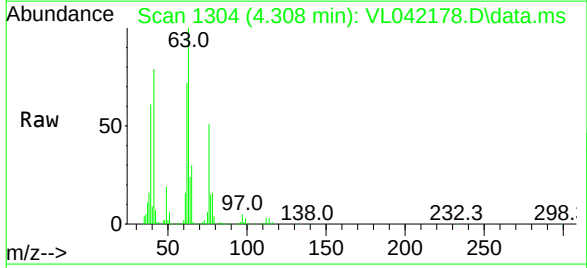
#39  
1,2-Dichloropropane  
Concen: 14.304 ppbv  
RT: 4.308 min Scan# 1304  
Delta R.T. -0.004 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 63 Resp: 257891  
Ion Ratio Lower Upper  
63 100  
41 78.7 61.7 92.5  
62 71.6 57.6 86.4

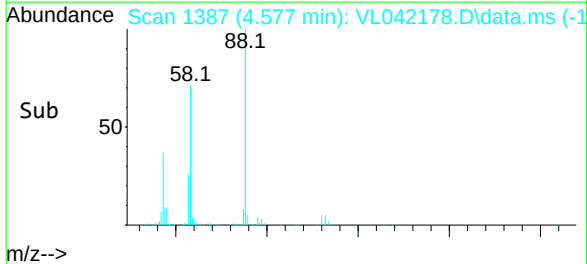
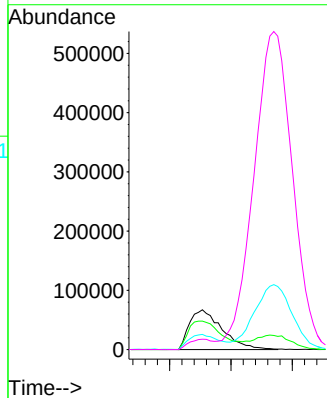
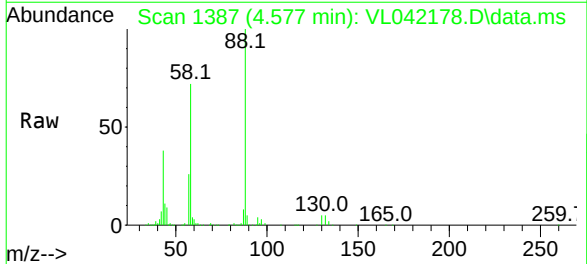
Manual Integrations  
APPROVED

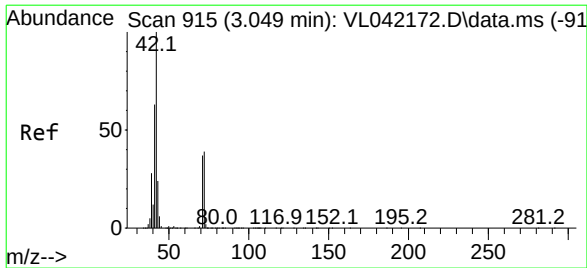
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#40  
1,4-Dioxane  
Concen: 13.354 ppbv  
RT: 4.577 min Scan# 1387  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 88 Resp: 124925  
Ion Ratio Lower Upper  
88 100  
58 69.6 62.7 94.1  
43 31.6 23.0 34.4  
57 0.0 0.0 0.0





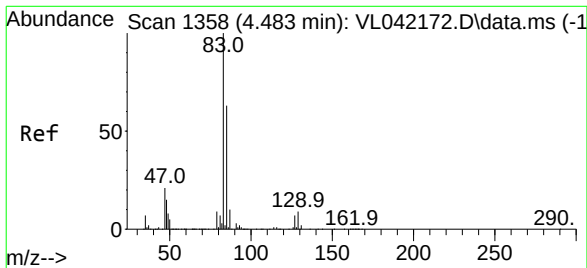
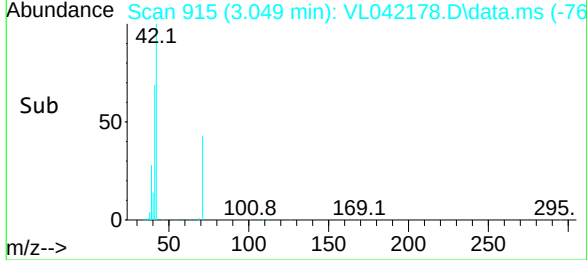
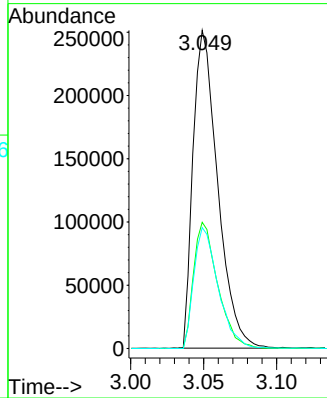
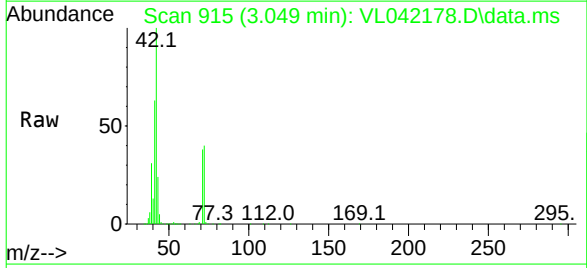
#41  
Tetrahydrofuran  
Concen: 14.301 ppbv  
RT: 3.049 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 42 Resp: 294634  
Ion Ratio Lower Upper  
42 100  
72 39.0 31.4 47.0  
71 37.9 30.2 45.4

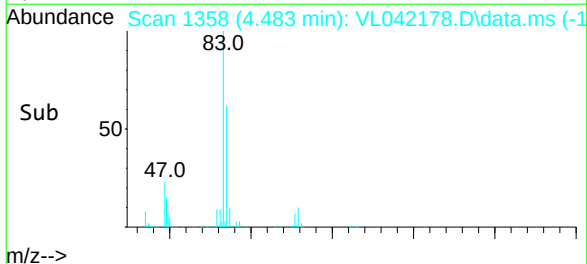
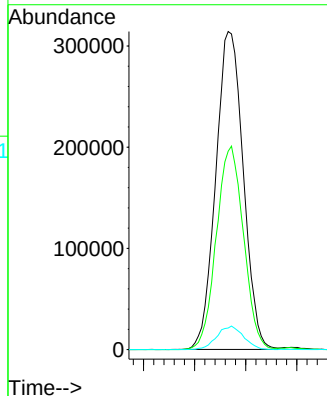
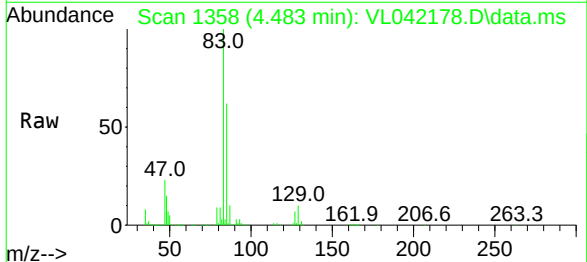
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

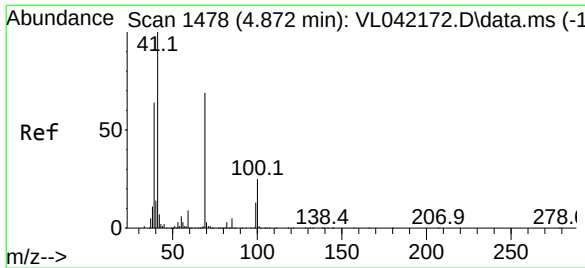


#42  
Bromodichloromethane  
Concen: 15.043 ppbv  
RT: 4.483 min Scan# 1358  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 83 Resp: 587772  
Ion Ratio Lower Upper  
83 100  
85 62.4 50.5 75.7  
127 6.8 5.9 8.9







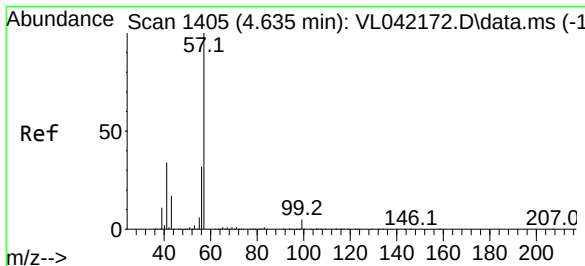
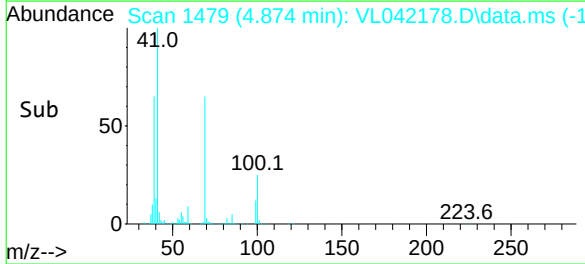
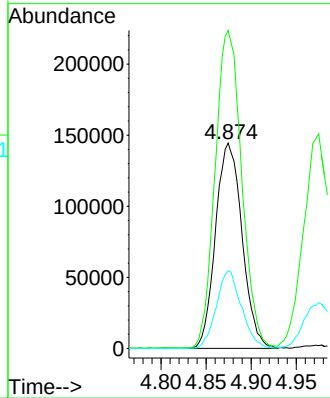
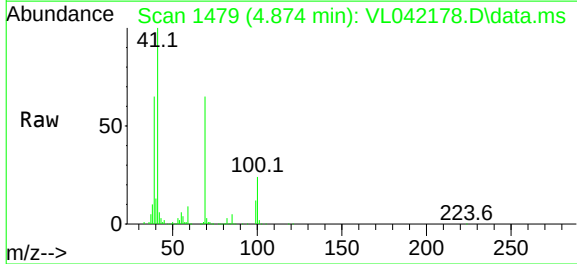
#43  
Methyl Methacrylate  
Concen: 14.130 ppbv  
RT: 4.874 min Scan# 1478  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 69 Resp: 295300  
Ion Ratio Lower Upper  
69 100  
41 155.4 123.8 185.6  
100 36.0 28.4 42.6

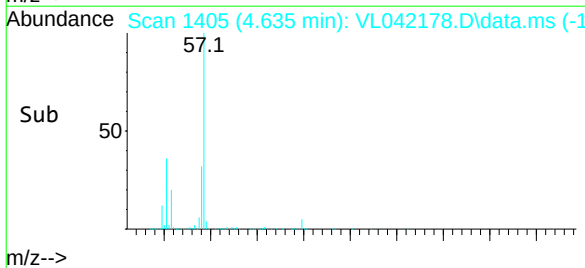
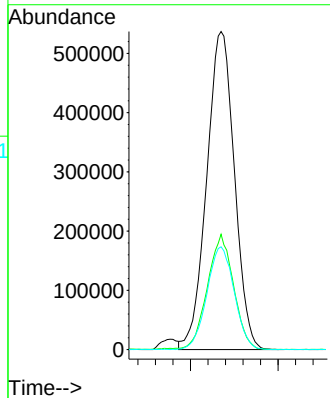
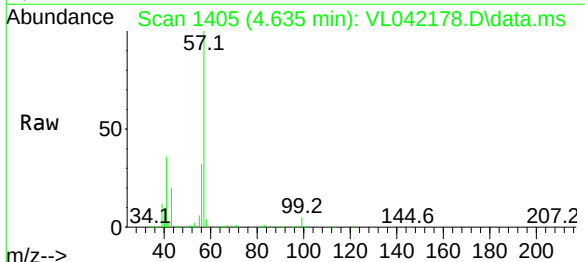
Manual Integrations  
APPROVED

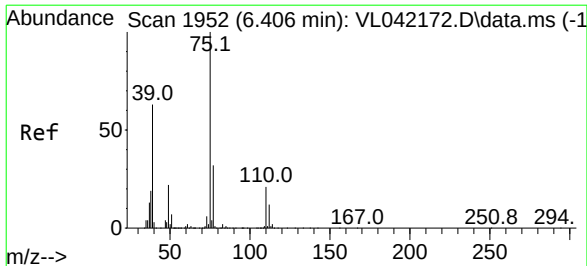
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#44  
2,2,4-Trimethylpentane  
Concen: 14.108 ppbv  
RT: 4.635 min Scan# 1405  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 57 Resp: 1180275  
Ion Ratio Lower Upper  
57 100  
41 34.2 26.8 40.2  
56 31.9 25.6 38.4





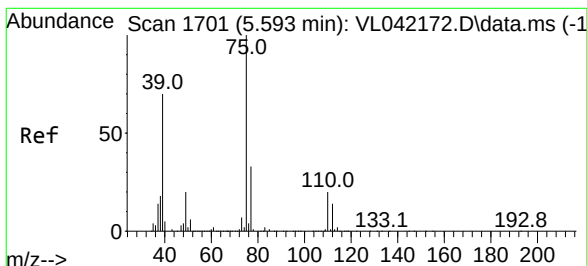
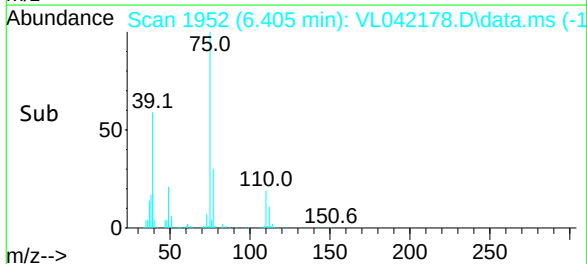
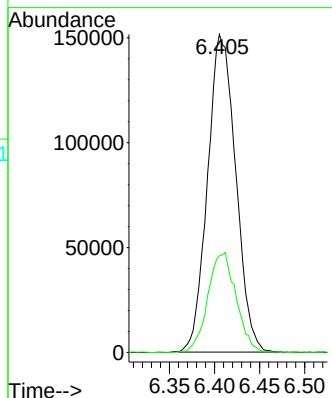
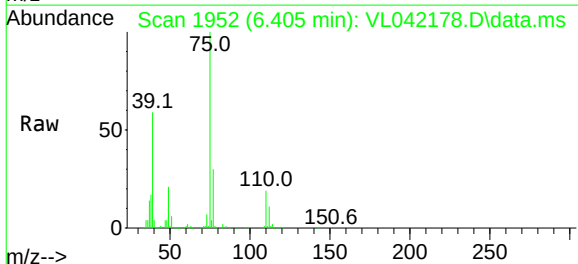
#45  
t-1,3-Dichloropropene  
Concen: 14.649 ppbv  
RT: 6.405 min Scan# 1952  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 75 Resp: 329360  
Ion Ratio Lower Upper  
75 100  
77 30.4 26.0 39.0

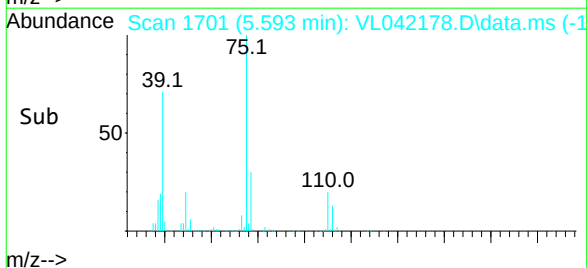
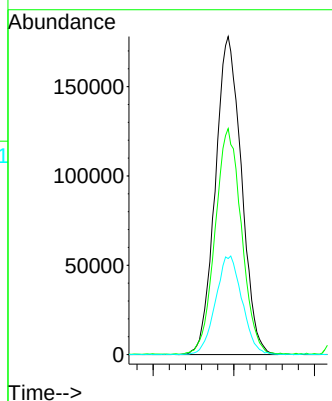
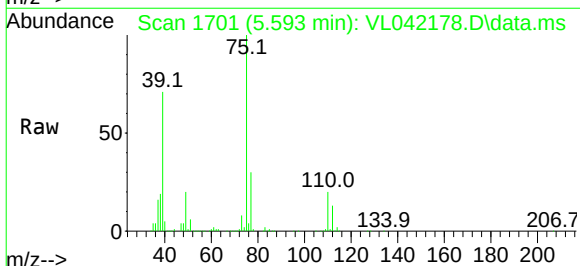
Manual Integrations  
APPROVED

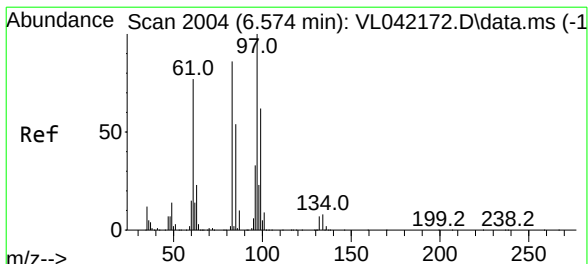
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#46  
cis-1,3-Dichloropropene  
Concen: 14.542 ppbv  
RT: 5.593 min Scan# 1701  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 75 Resp: 400813  
Ion Ratio Lower Upper  
75 100  
39 70.9 55.8 83.6  
77 30.2 26.0 39.0





#47  
1,1,2-Trichloroethane  
Concen: 14.331 ppbv  
RT: 6.577 min Scan# 20  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :

MSVOA\_L

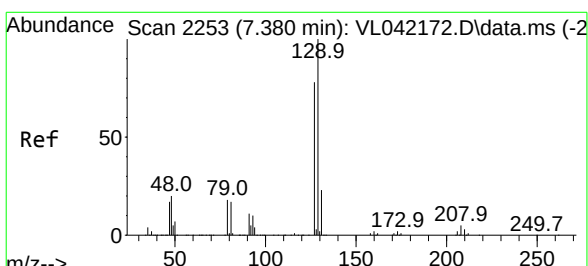
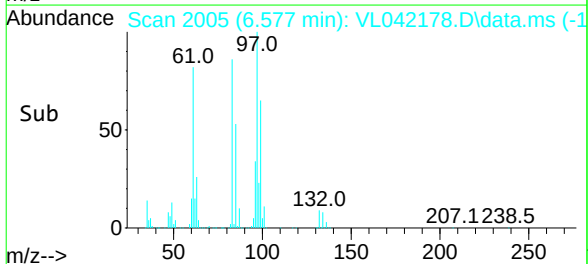
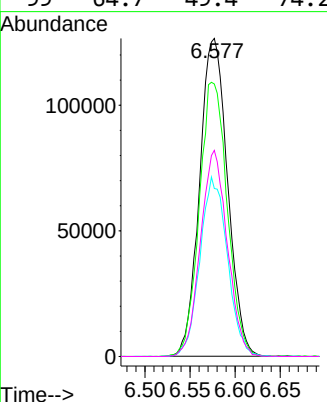
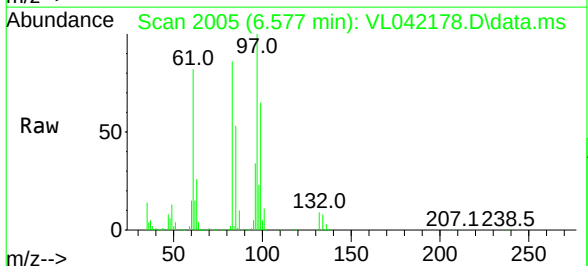
ClientSampleId :

VSTDIC015

| Tgt Ion: | 97    | Resp: | 273137 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 85.7  | 69.2  | 103.8  |
| 85       | 52.7  | 43.1  | 64.7   |
| 99       | 64.7  | 49.4  | 74.2   |

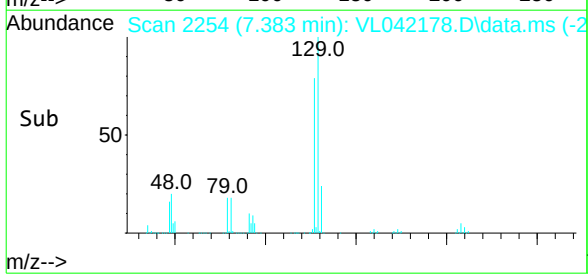
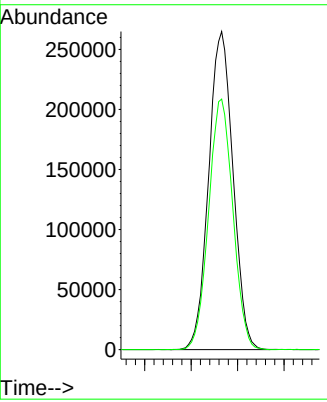
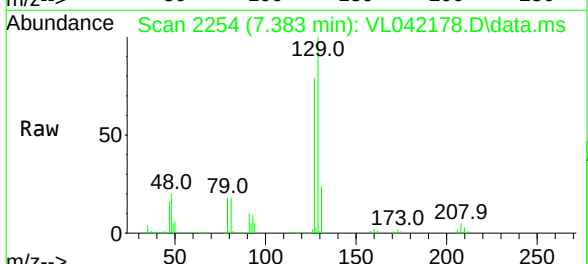
Manual Integrations  
APPROVED

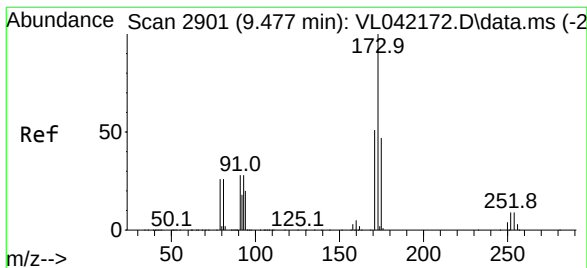
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#48  
Dibromochloromethane  
Concen: 14.936 ppbv  
RT: 7.383 min Scan# 2254  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

| Tgt Ion: | 129   | Resp: | 482431 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 78.4  | 39.1  | 117.2  |





#49

Bromoform

Concen: 14.730 ppbv

RT: 9.480 min Scan# 2901

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA\_L

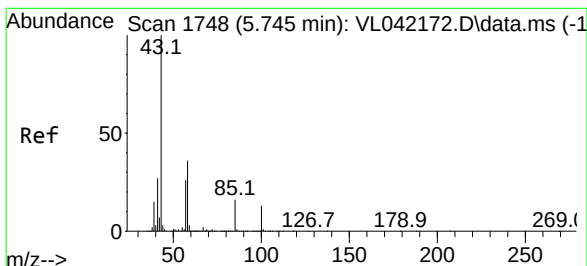
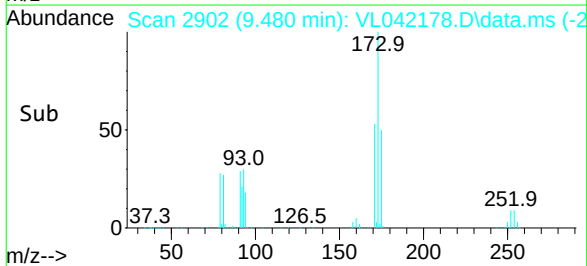
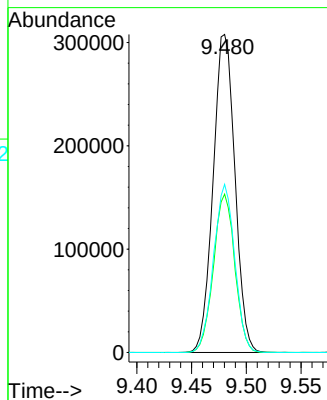
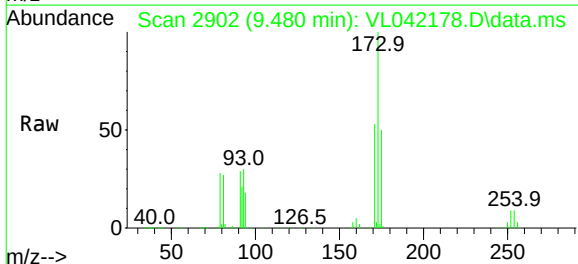
ClientSampleId :

VSTDICC015

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 173   | Resp: | 427143 |
| Ion      | Ratio | Lower | Upper  |
| 173      | 100   |       |        |
| 175      | 48.9  | 38.6  | 57.8   |
| 171      | 51.5  | 41.8  | 62.6   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#50

4-Methyl-2-Pentanone

Concen: 13.155 ppbv

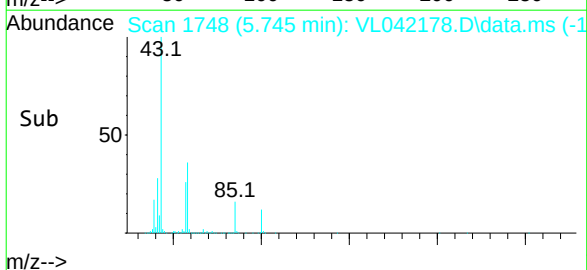
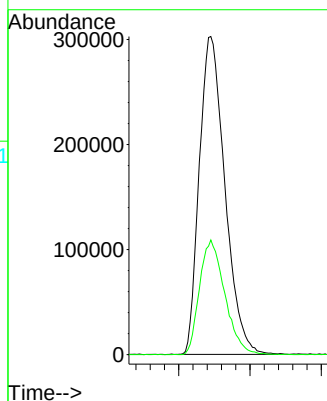
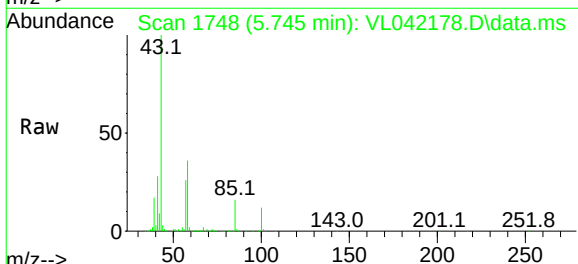
RT: 5.745 min Scan# 1748

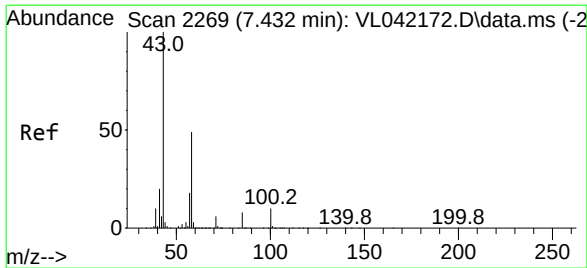
Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 755146 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 35.5  | 29.0  | 43.6   |





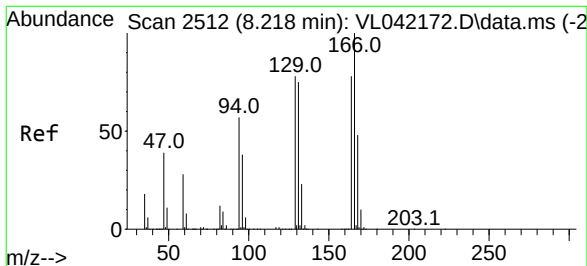
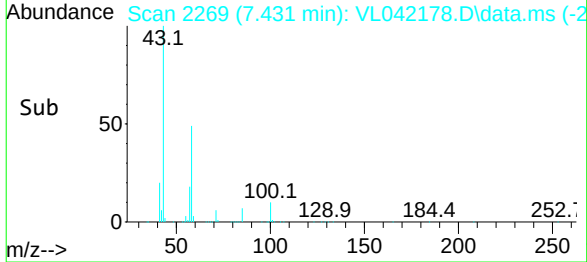
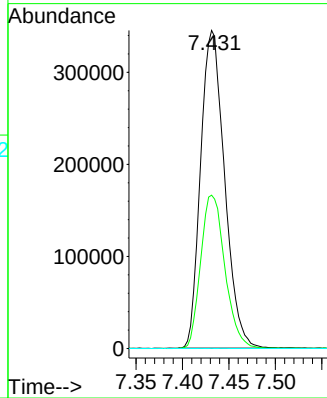
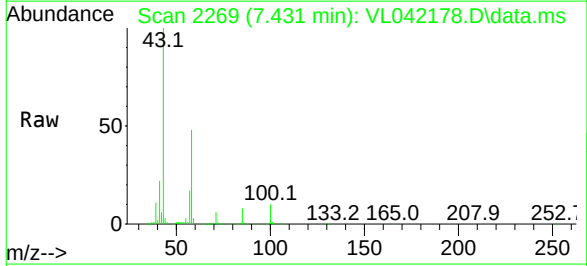
#51  
2-Hexanone  
Concen: 13.005 ppbv  
RT: 7.431 min Scan# 2269  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 43 Resp: 619419  
Ion Ratio Lower Upper  
43 100  
58 49.0 39.7 59.5  
98 0.0 0.1 0.1#

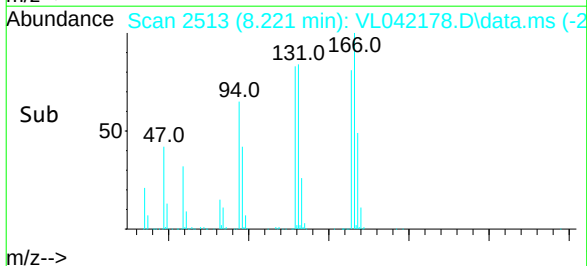
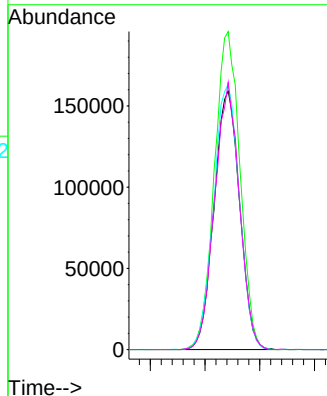
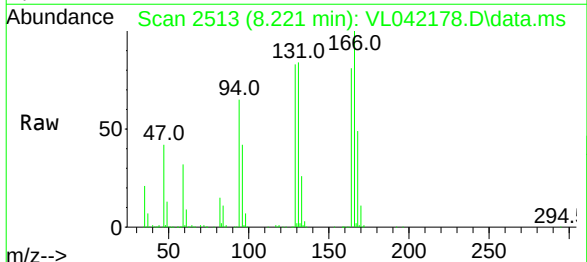
Manual Integrations  
APPROVED

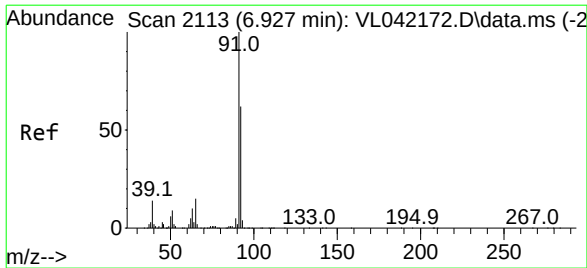
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#52  
Tetrachloroethene  
Concen: 13.159 ppbv  
RT: 8.221 min Scan# 2513  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion:164 Resp: 258356  
Ion Ratio Lower Upper  
164 100  
166 123.0 102.5 153.7  
129 102.5 79.8 119.8  
131 103.3 76.6 114.8





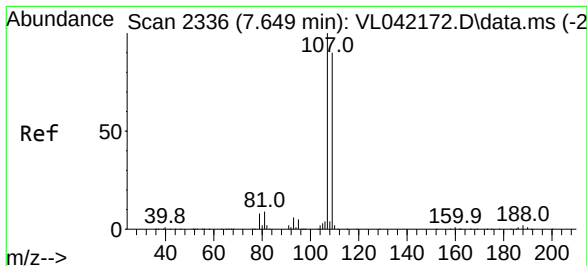
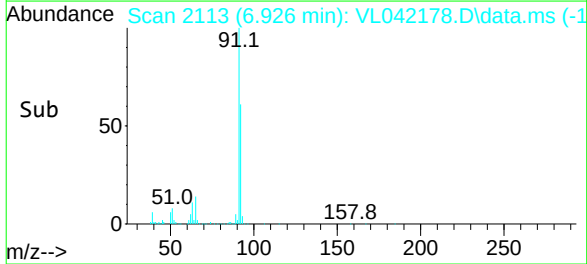
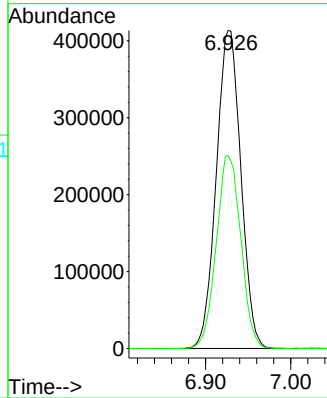
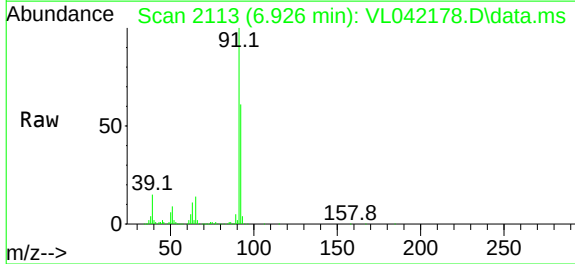
#53  
Toluene  
Concen: 14.137 ppbv  
RT: 6.926 min Scan# 2113  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 91 Resp: 829648  
Ion Ratio Lower Upper  
91 100  
92 60.6 48.4 72.6

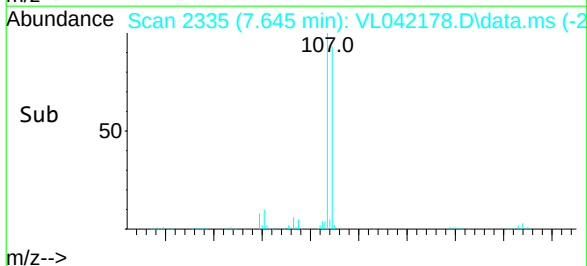
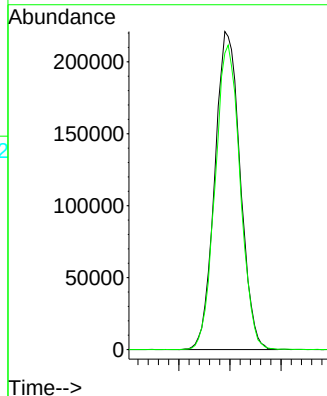
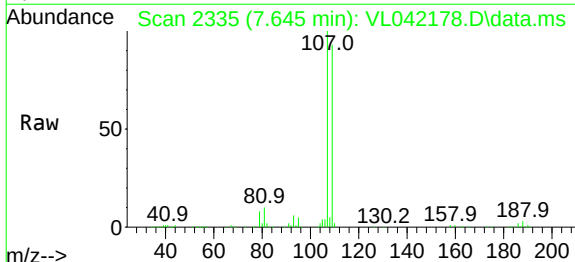
Manual Integrations  
APPROVED

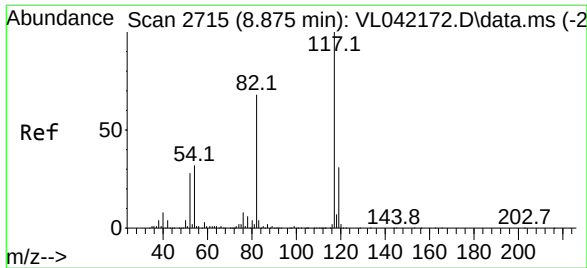
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#54  
1,2-Dibromoethane  
Concen: 14.359 ppbv  
RT: 7.645 min Scan# 2335  
Delta R.T. -0.004 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

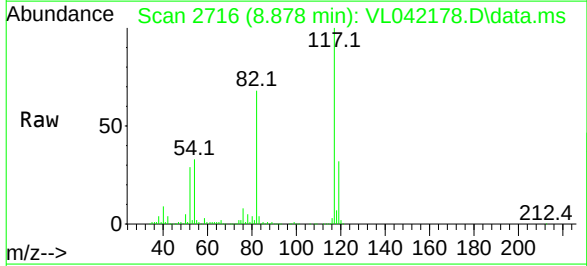
Tgt Ion:107 Resp: 381823  
Ion Ratio Lower Upper  
107 100  
109 93.2 72.2 108.4





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 2715  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

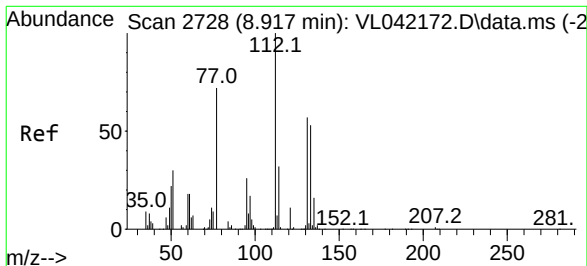
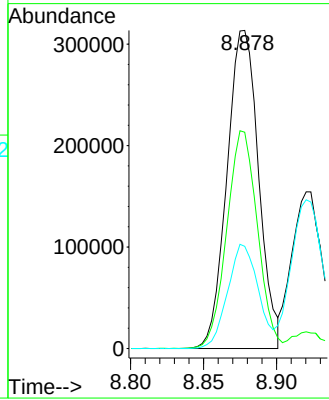
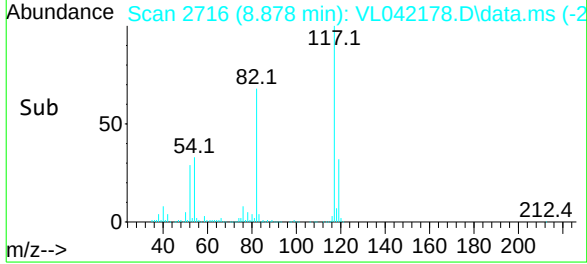
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



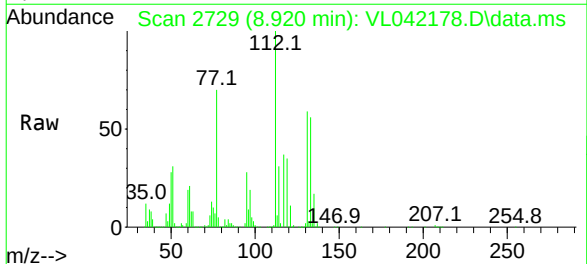
Tgt Ion:117 Resp: 473077  
Ion Ratio Lower Upper  
117 100  
82 71.4 55.8 83.6  
119 31.7 25.5 38.3

Manual Integrations  
APPROVED

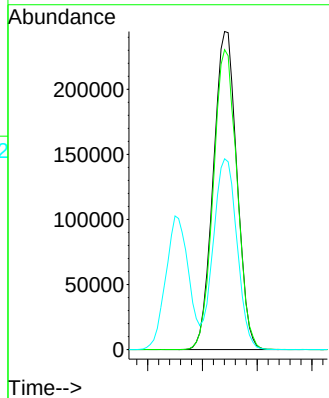
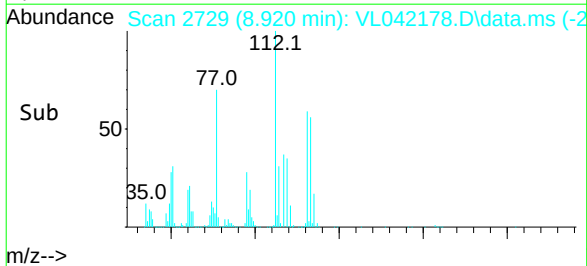
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

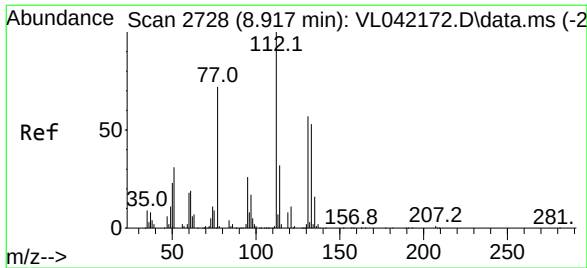


#56  
1,1,1,2-Tetrachloroethane  
Concen: 14.032 ppbv  
RT: 8.920 min Scan# 2729  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36



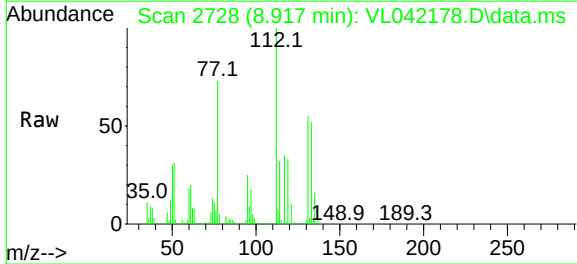
Tgt Ion:131 Resp: 365410  
Ion Ratio Lower Upper  
131 100  
133 94.5 76.6 114.8  
119 61.2 49.8 74.6





#57  
Chlorobenzene  
Concen: 13.777 ppbv  
RT: 8.917 min Scan# 2728  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

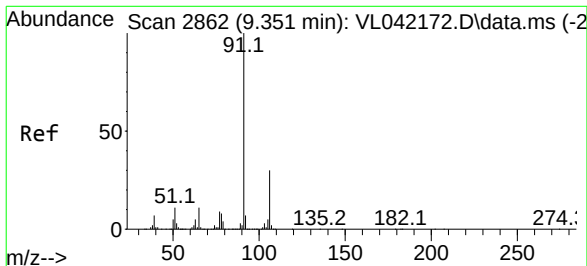
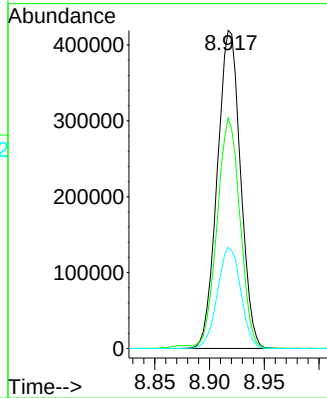
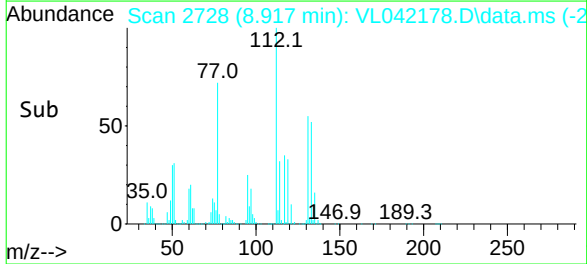
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



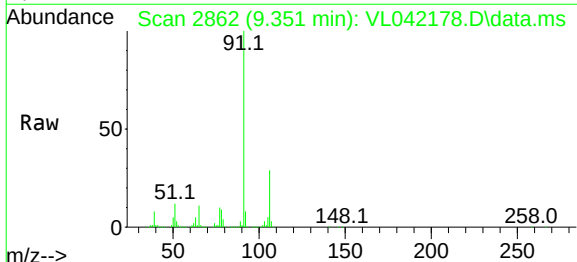
Tgt Ion: 112 Resp: 618201  
Ion Ratio Lower Upper  
112 100  
77 72.5 58.2 87.2  
114 31.8 29.1 35.5

Manual Integrations  
APPROVED

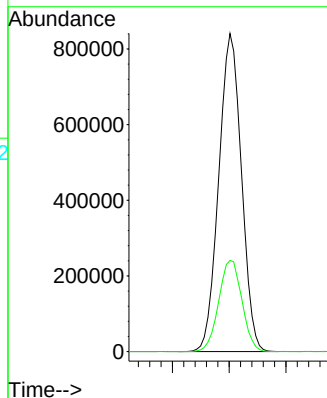
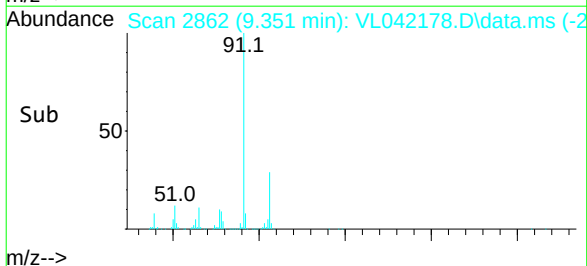
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



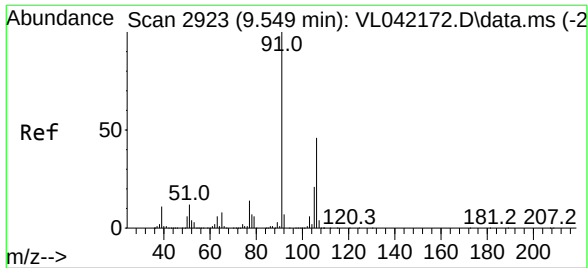
#58  
Ethyl Benzene  
Concen: 13.889 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36



Tgt Ion: 91 Resp: 1167096  
Ion Ratio Lower Upper  
91 100  
106 28.7 24.2 36.2







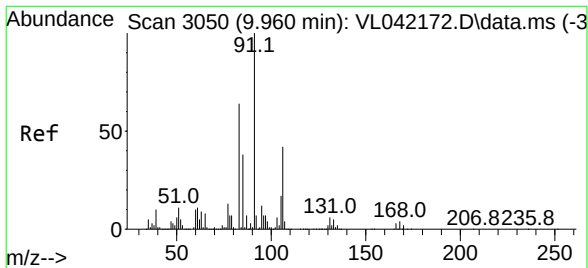
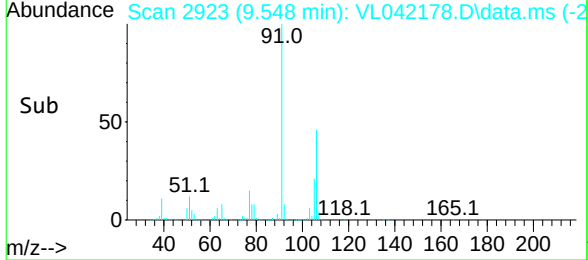
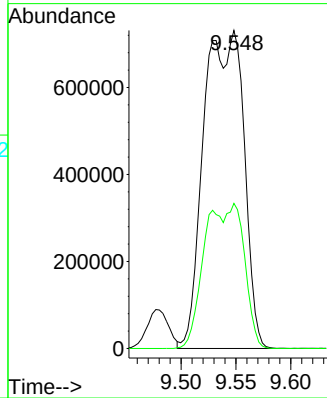
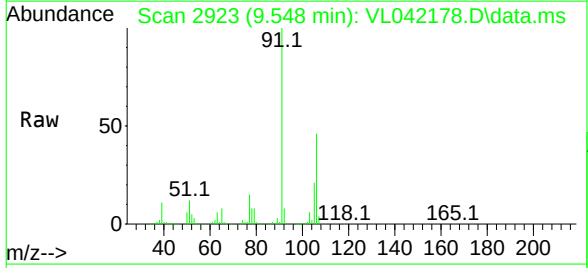
#59  
m/p-Xylene  
Concen: 27.651 ppbv m  
RT: 9.548 min Scan# 29  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 91 Resp: 1857561  
Ion Ratio Lower Upper  
91 100  
106 45.2 36.4 54.6

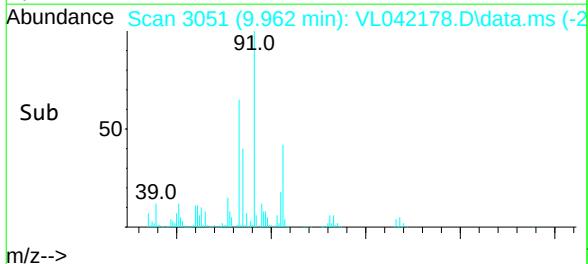
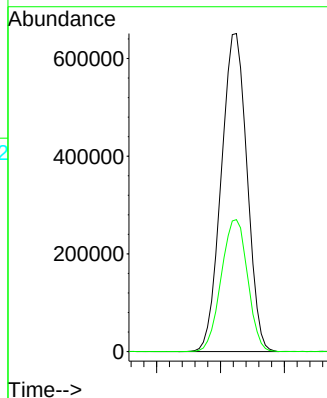
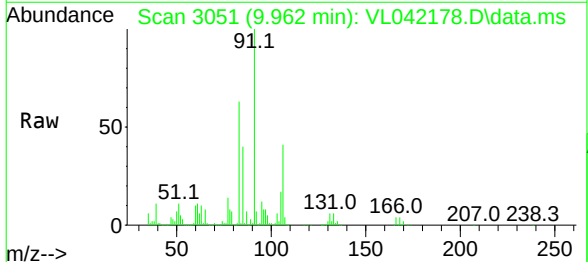
Manual Integrations  
APPROVED

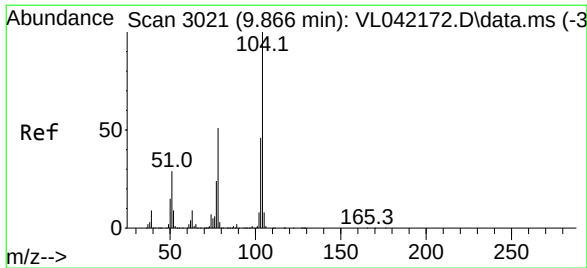
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#60  
o-Xylene  
Concen: 13.577 ppbv  
RT: 9.962 min Scan# 3051  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 913234  
Ion Ratio Lower Upper  
91 100  
106 42.4 20.8 62.5





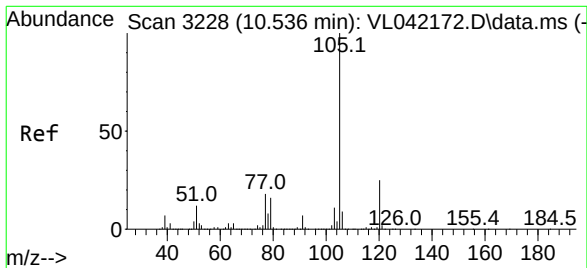
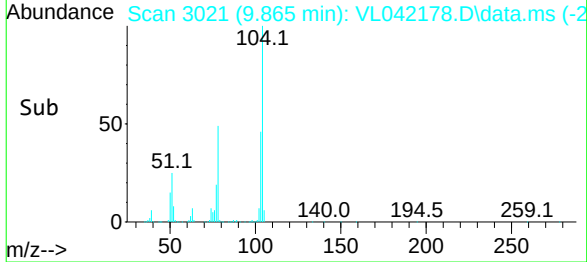
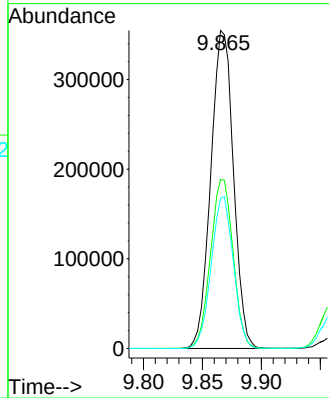
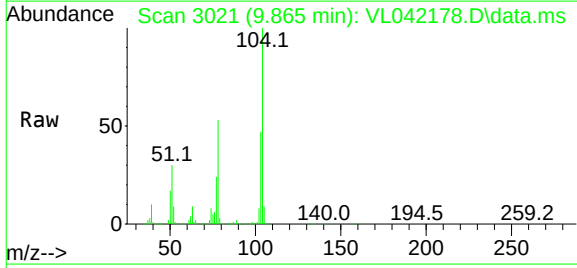
#61  
Styrene  
Concen: 14.250 ppbv  
RT: 9.865 min Scan# 3021  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 104   | Resp: | 474195 |
| Ion Ratio | Lower | Upper |        |
| 104       | 100   |       |        |
| 78        | 53.0  | 41.8  | 62.6   |
| 103       | 46.7  | 37.0  | 55.4   |

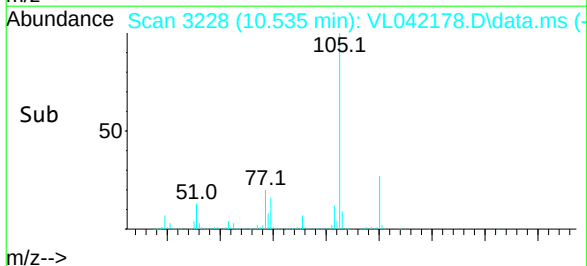
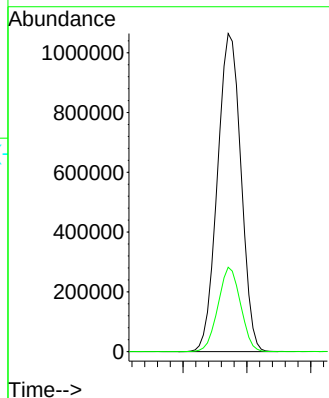
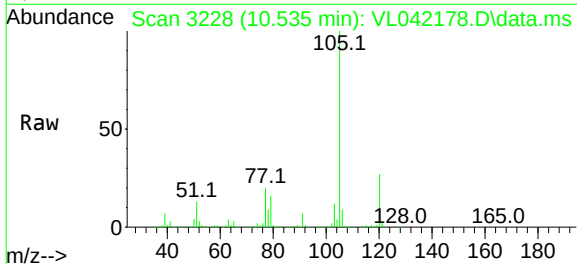
Manual Integrations  
APPROVED

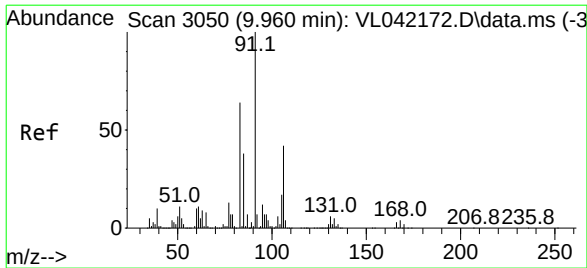
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#62  
Isopropylbenzene  
Concen: 13.544 ppbv  
RT: 10.535 min Scan# 3228  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

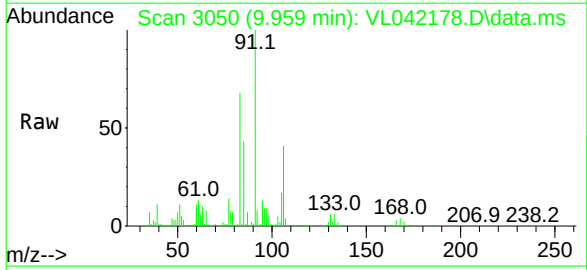
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 105   | Resp: | 1362416 |
| Ion Ratio | Lower | Upper |         |
| 105       | 100   |       |         |
| 120       | 25.3  | 19.9  | 29.9    |





#63  
1,1,2,2-Tetrachloroethane  
Concen: 13.491 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

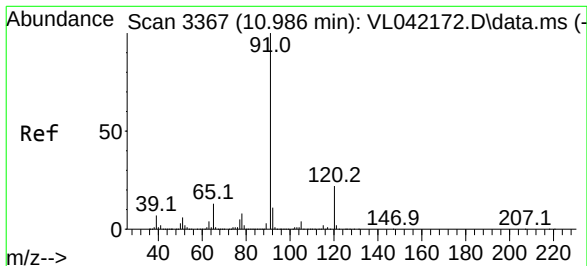
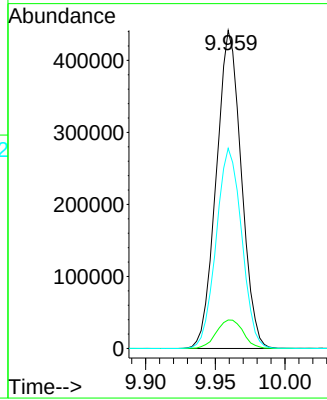
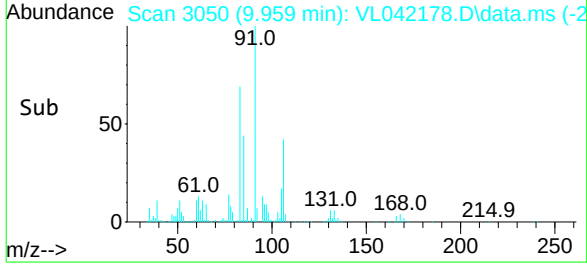
Instrument : MSVOA\_1  
ClientSampleId : VSTDIC015



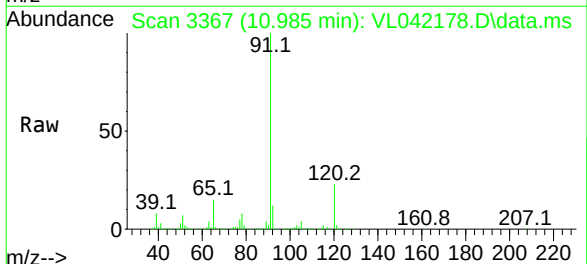
Tgt Ion: 83 Resp: 551386  
Ion Ratio Lower Upper  
83 100  
131 9.6 4.8 14.4  
85 64.2 32.5 97.5

Manual Integrations  
APPROVED

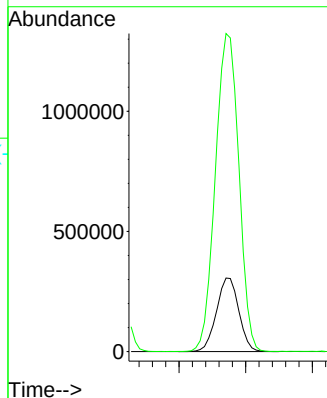
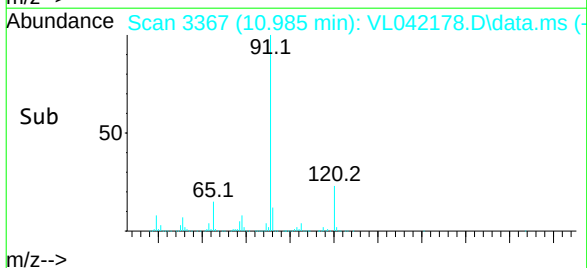
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

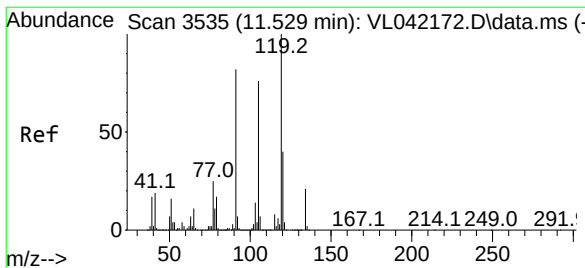


#64  
n-propylbenzene  
Concen: 13.753 ppbv  
RT: 10.985 min Scan# 3367  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36



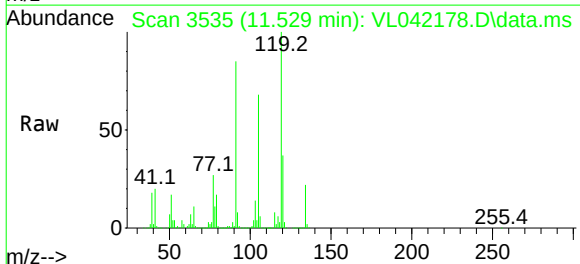
Tgt Ion:120 Resp: 356118  
Ion Ratio Lower Upper  
120 100  
91 455.4 376.9 565.3





#65  
tert-Butylbenzene  
Concen: 12.901 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

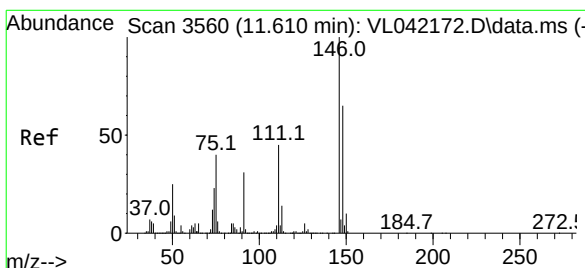
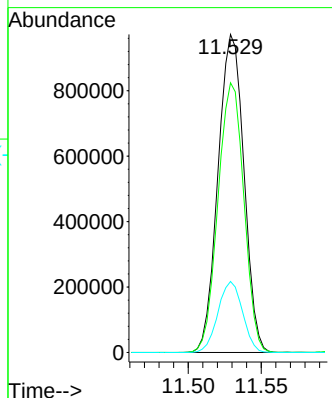
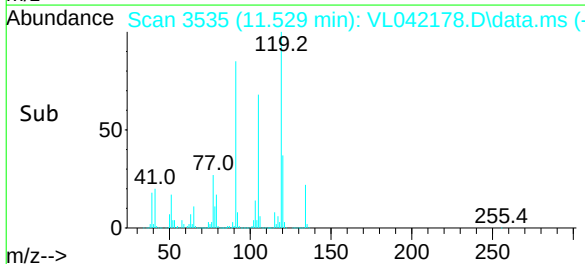
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion: 119 Resp: 1200149  
Ion Ratio Lower Upper  
119 100  
91 84.6 66.0 99.0  
134 21.2 16.7 25.1

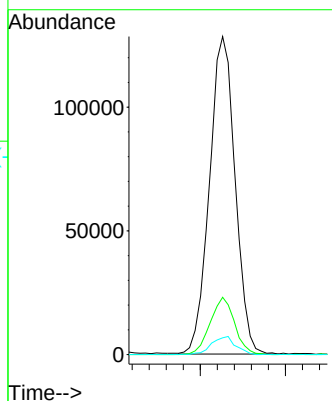
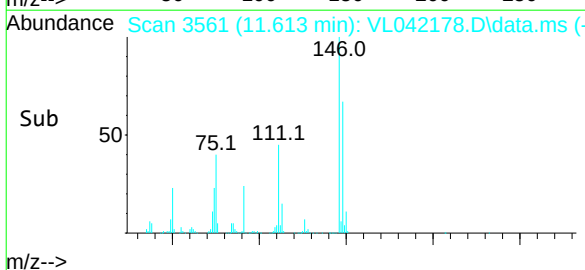
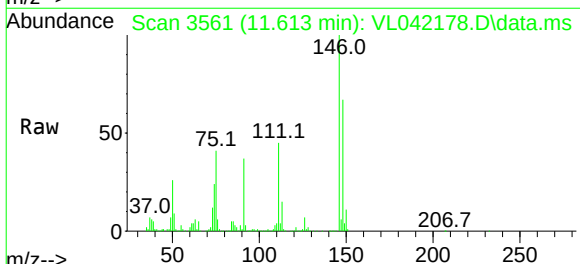
Manual Integrations  
APPROVED

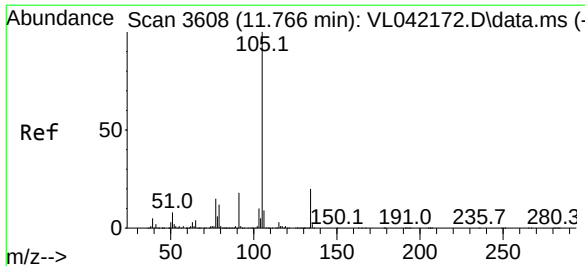
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#66  
Benzyl Chloride  
Concen: 13.615 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 134397  
Ion Ratio Lower Upper  
91 100  
126 17.3 13.8 20.6  
128 5.4 4.5 6.7





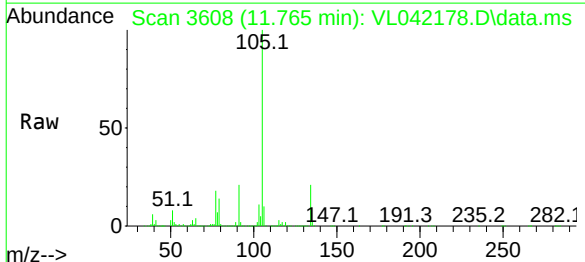
#67  
 sec-Butylbenzene  
 Concen: 12.711 ppbv  
 RT: 11.765 min Scan# 3608  
 Delta R.T. -0.000 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

Instrument :

MSVOA\_L

ClientSampleId :

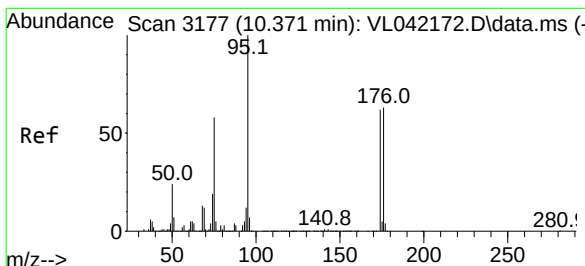
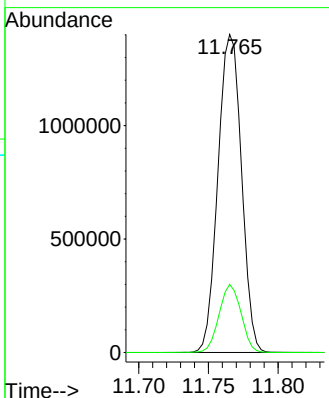
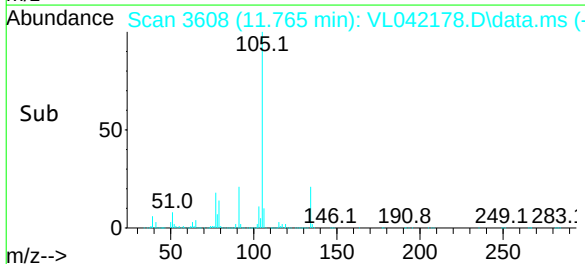
VSTDIC015



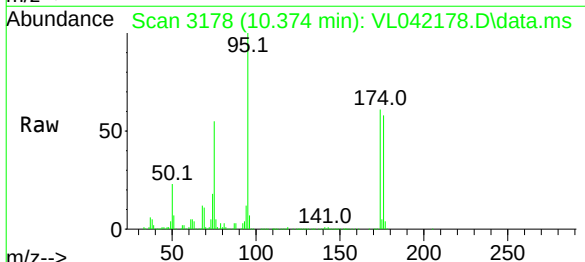
Tgt Ion: 105 Resp: 1643629  
 Ion Ratio Lower Upper  
 105 100  
 134 20.0 15.5 23.3

Manual Integrations  
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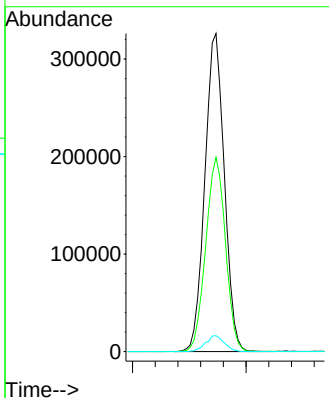
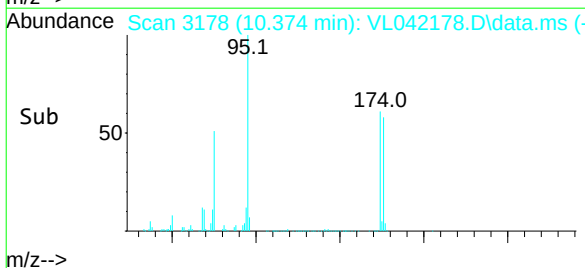
Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

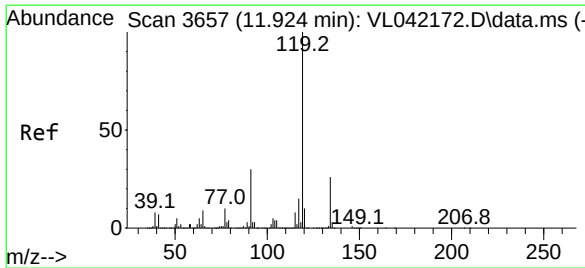


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.981 ppbv  
 RT: 10.374 min Scan# 3178  
 Delta R.T. 0.003 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36



Tgt Ion: 95 Resp: 387777  
 Ion Ratio Lower Upper  
 95 100  
 174 62.1 50.6 76.0  
 175 4.8 3.8 5.6





#69  
p-Isopropyltoluene  
Concen: 12.906 ppbv  
RT: 11.924 min Scan# 3657  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :

MSVOA\_L

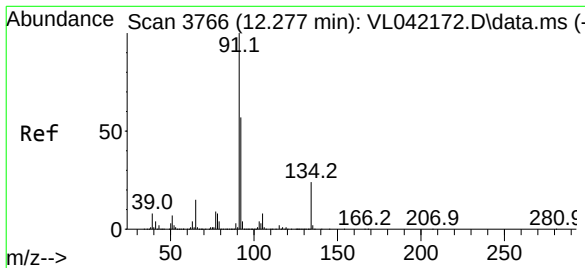
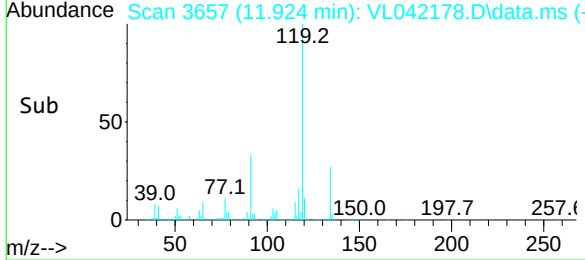
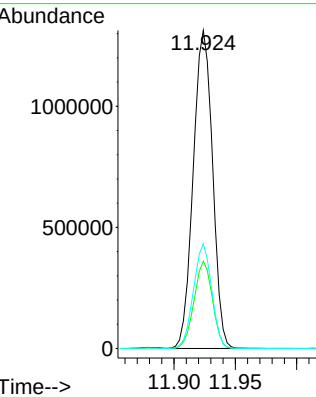
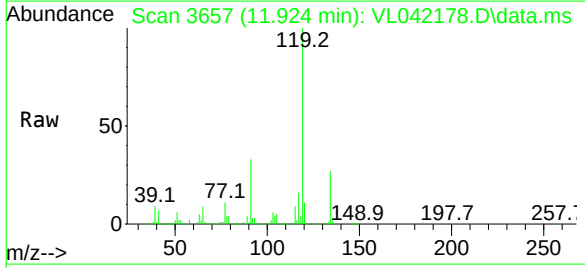
ClientSampleId :

VSTDIC015

Tgt Ion: 119 Resp: 1437016  
Ion Ratio Lower Upper  
119 100  
134 26.2 20.4 30.6  
91 31.2 23.7 35.5

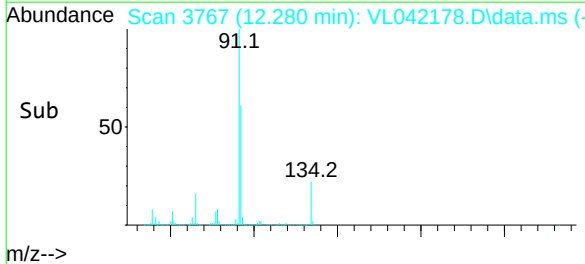
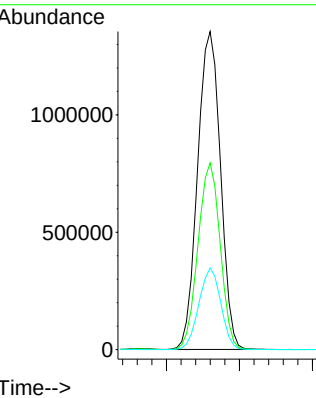
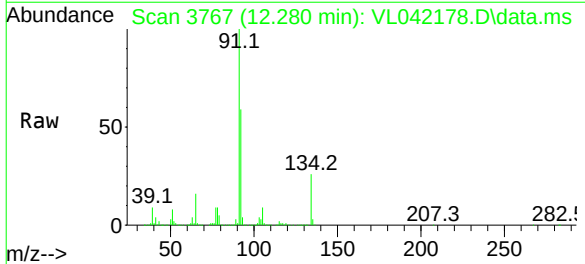
Manual Integrations  
APPROVED

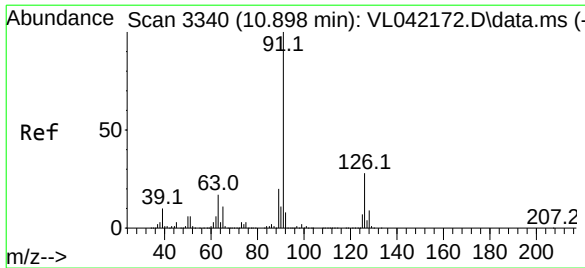
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#70  
n-Butylbenzene  
Concen: 12.975 ppbv  
RT: 12.280 min Scan# 3767  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 1477443  
Ion Ratio Lower Upper  
91 100  
92 57.0 44.9 67.3  
134 24.6 19.2 28.8





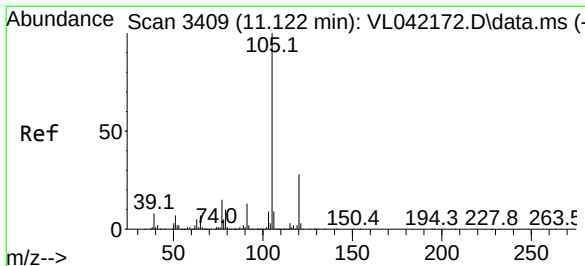
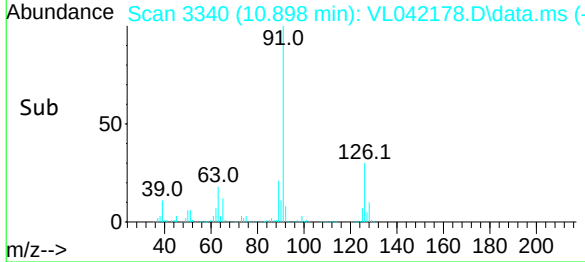
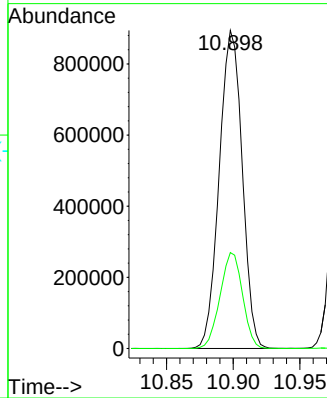
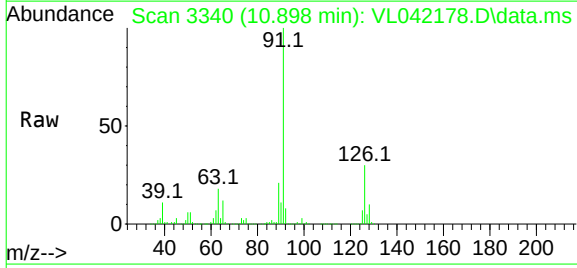
#71  
2-Chlorotoluene  
Concen: 13.724 ppbv  
RT: 10.898 min Scan# 3340  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 91 Resp: 1071432  
Ion Ratio Lower Upper  
91 100  
126 29.5 11.6 46.4

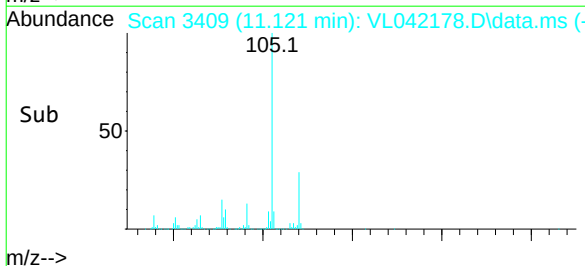
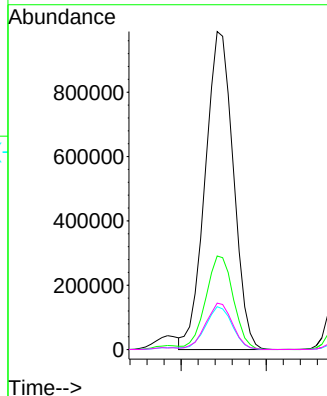
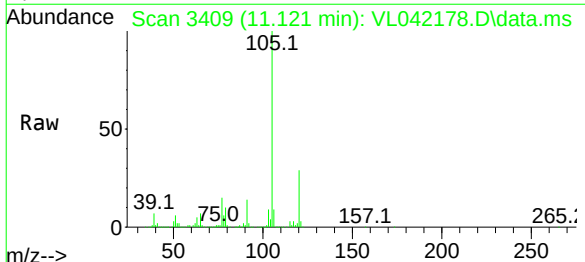
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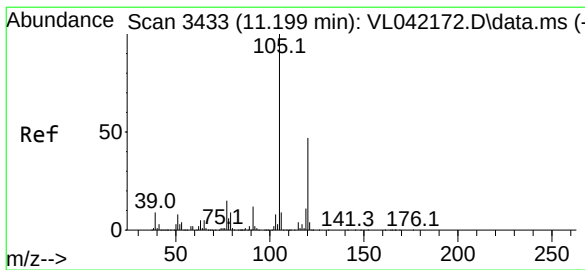
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#72  
4-Ethyltoluene  
Concen: 13.569 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1136415  
Ion Ratio Lower Upper  
105 100  
120 30.1 23.4 35.0  
91 13.5 10.3 15.5  
77 14.6 11.4 17.2





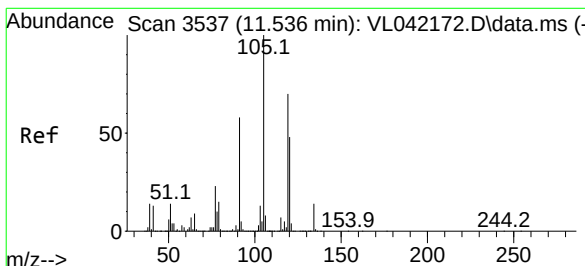
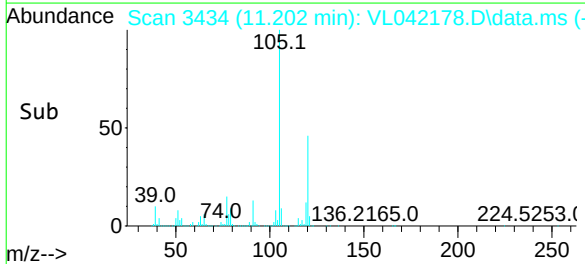
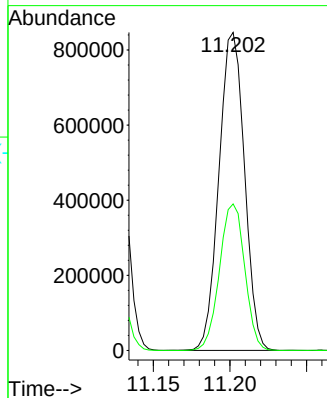
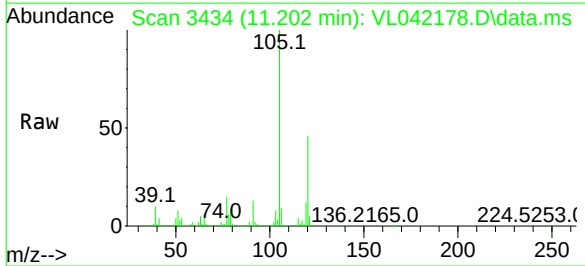
#73  
1,3,5-Trimethylbenzene  
Concen: 13.395 ppbv  
RT: 11.202 min Scan# 3433  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion:105 Resp: 979783  
Ion Ratio Lower Upper  
105 100  
120 46.1 37.4 56.0

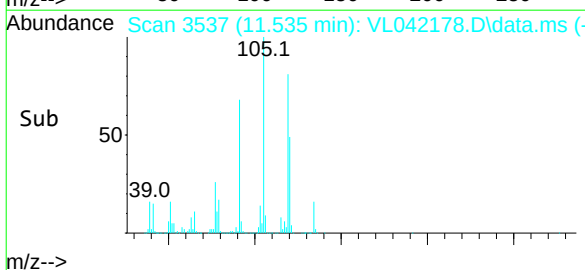
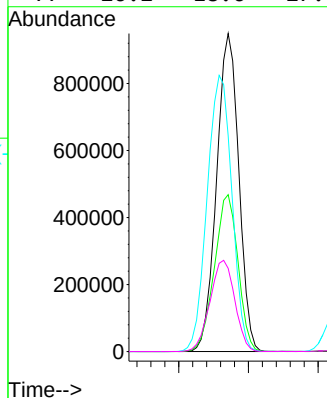
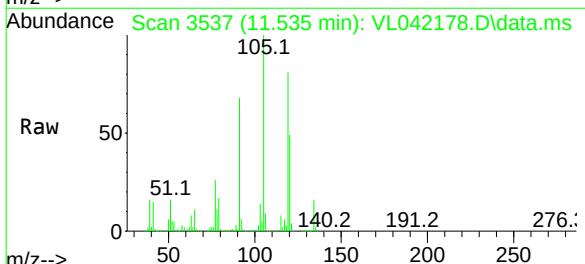
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

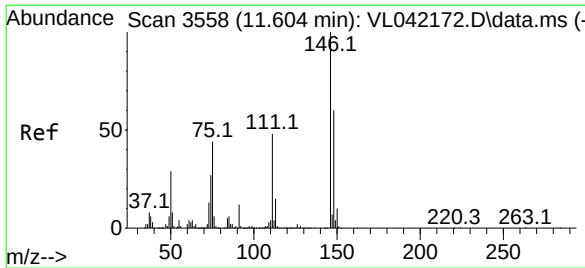


#74  
1,2,4-Trimethylbenzene  
Concen: 12.447 ppbv  
RT: 11.535 min Scan# 3537  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1048874  
Ion Ratio Lower Upper  
105 100  
120 49.3 38.6 58.0  
91 67.8 46.2 69.2  
77 26.2 18.6 27.8







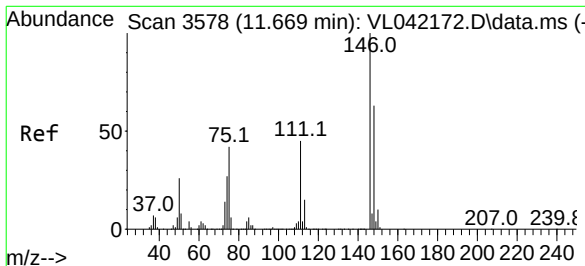
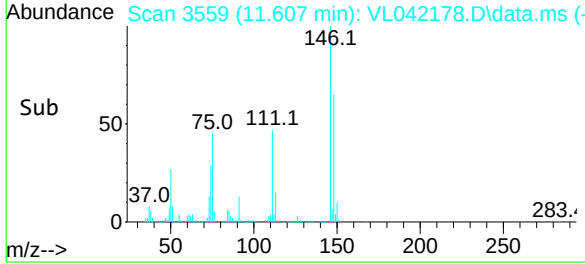
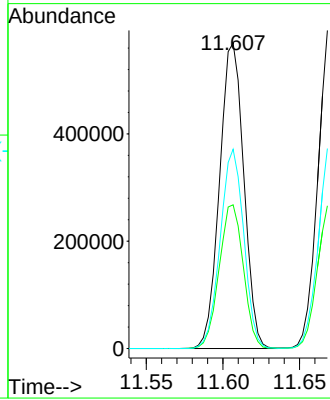
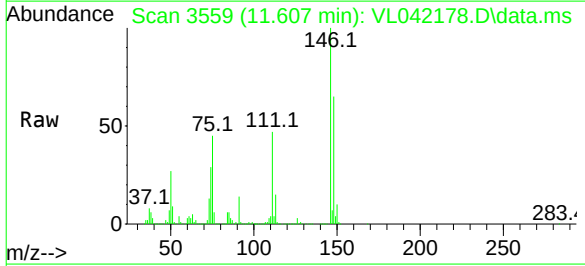
#75  
1,3-Dichlorobenzene  
Concen: 13.545 ppbv  
RT: 11.607 min Scan# 3558  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

Tgt Ion:146 Resp: 626015  
Ion Ratio Lower Upper  
146 100  
111 47.0 23.8 71.2  
148 63.5 31.9 95.9

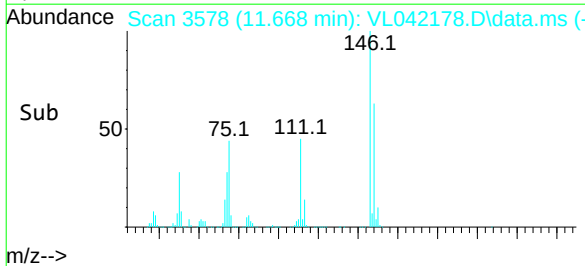
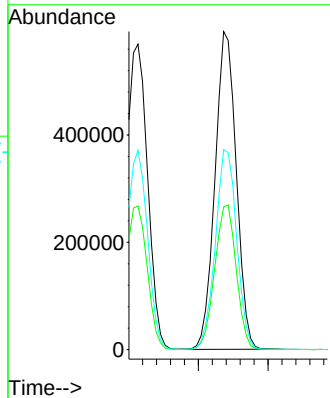
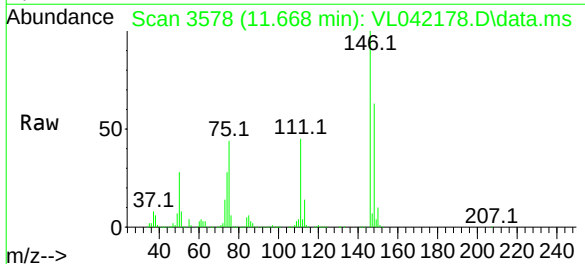
Manual Integrations  
APPROVED

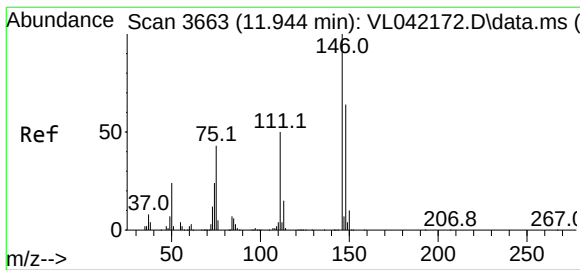
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#76  
1,4-Dichlorobenzene  
Concen: 13.668 ppbv  
RT: 11.668 min Scan# 3578  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

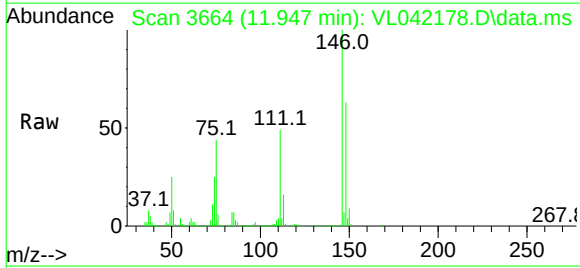
Tgt Ion:146 Resp: 628694  
Ion Ratio Lower Upper  
146 100  
111 46.1 23.0 69.0  
148 63.6 31.9 95.7





#77  
 1,2-Dichlorobenzene  
 Concen: 13.396 ppbv  
 RT: 11.947 min Scan# 3664  
 Delta R.T. 0.003 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

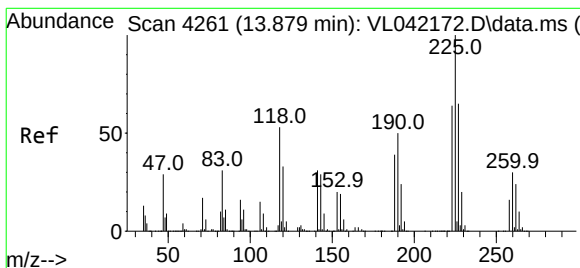
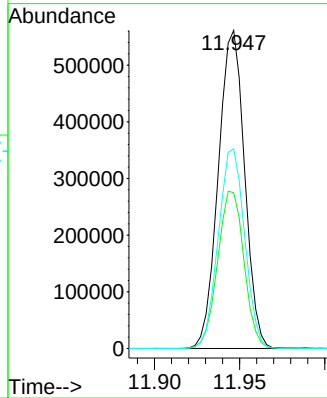
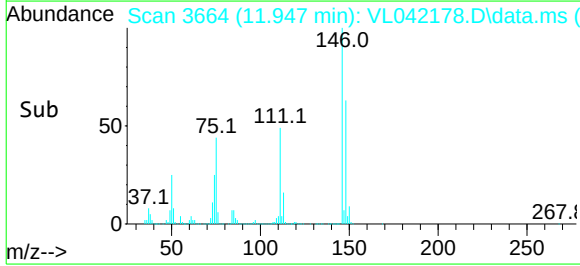
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



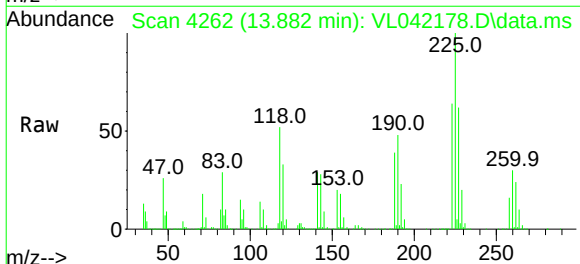
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 602844 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 49.7  | 24.8  | 74.3   |
| 148       | 63.3  | 31.6  | 94.8   |

Manual Integrations  
 APPROVED

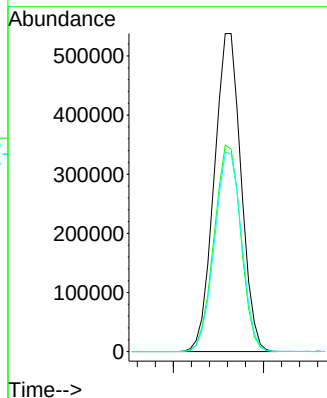
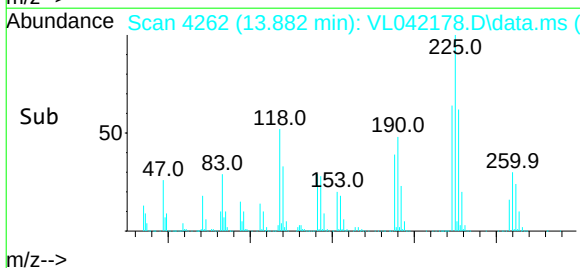
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

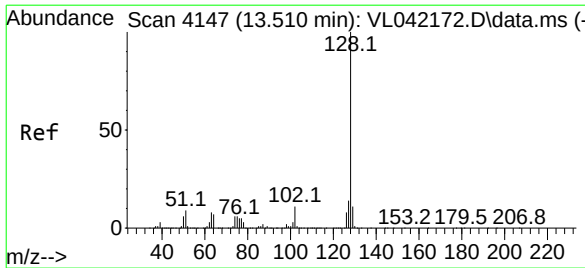


#78  
 Hexachloro-1,3-Butadiene  
 Concen: 12.147 ppbv  
 RT: 13.882 min Scan# 4262  
 Delta R.T. 0.003 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 556392 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 64.7  | 50.6  | 76.0   |
| 227       | 63.3  | 51.2  | 76.8   |





#79

Naphthalene

Concen: 13.653 ppbv

RT: 13.513 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA\_L

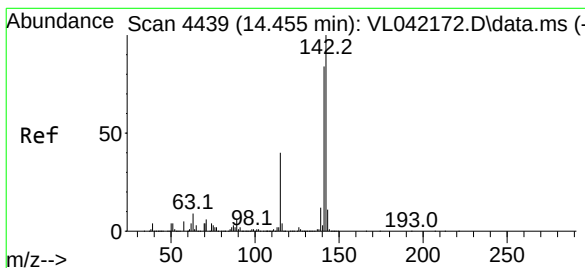
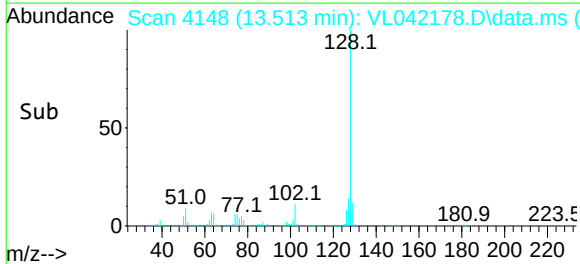
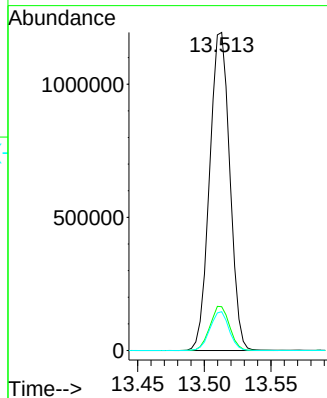
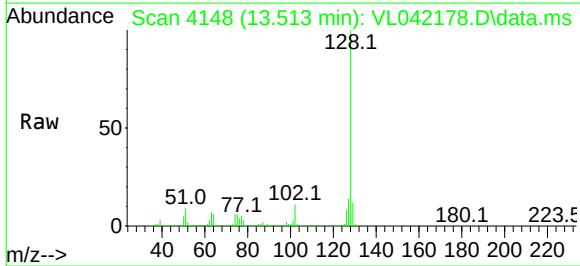
ClientSampleId :

VSTDICC015

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 128   | Resp: | 1258479 |
| Ion      | Ratio | Lower | Upper   |
| 128      | 100   |       |         |
| 127      | 13.8  | 10.8  | 16.2    |
| 129      | 12.2  | 9.0   | 13.4    |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene, 2-methyl-

Concen: 16.018 ppbv

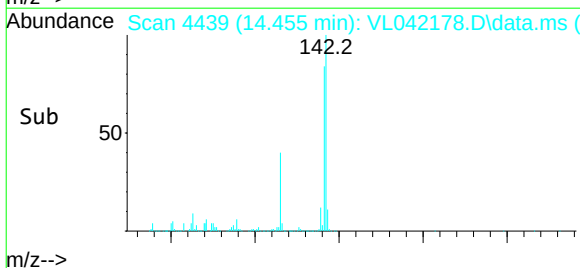
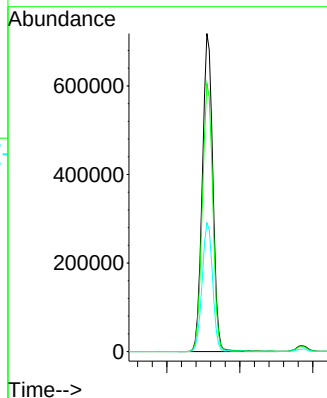
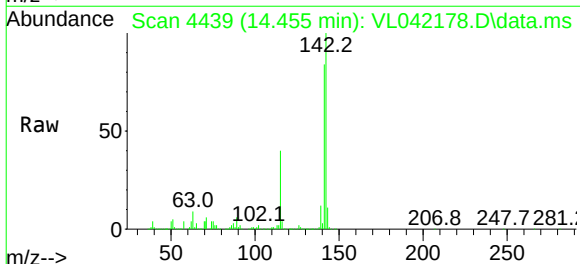
RT: 14.455 min Scan# 4439

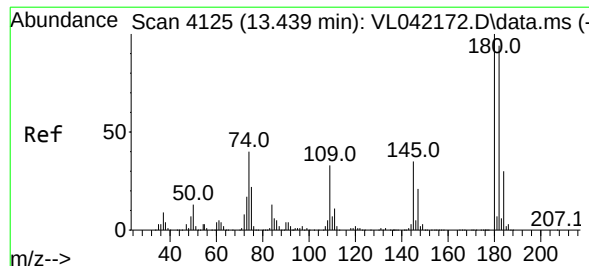
Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

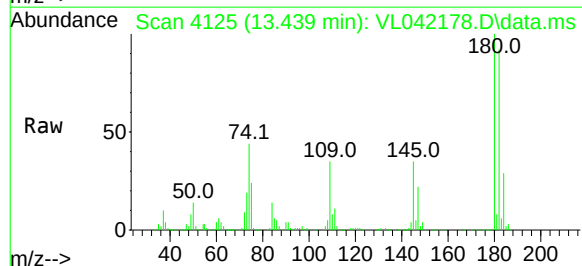
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 142   | Resp: | 718900 |
| Ion      | Ratio | Lower | Upper  |
| 142      | 100   |       |        |
| 141      | 84.3  | 66.3  | 99.5   |
| 115      | 40.6  | 31.6  | 47.4   |





#81  
1,2,4-Trichlorobenzene  
Concen: 14.075 ppbv  
RT: 13.439 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

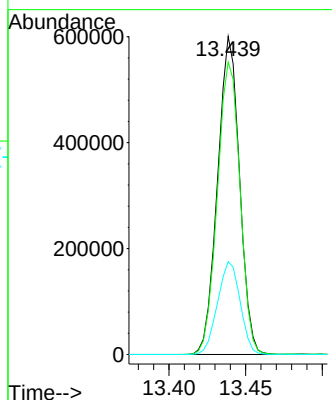
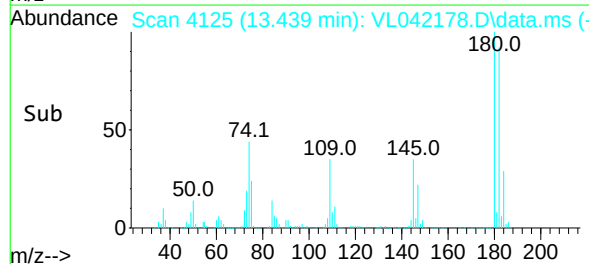
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion:180 Resp: 598416  
Ion Ratio Lower Upper  
180 100  
182 94.7 75.1 112.7  
184 30.1 24.4 36.6

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



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 2

QLast Update : Fri Mar 28 02:00:52 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   | 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

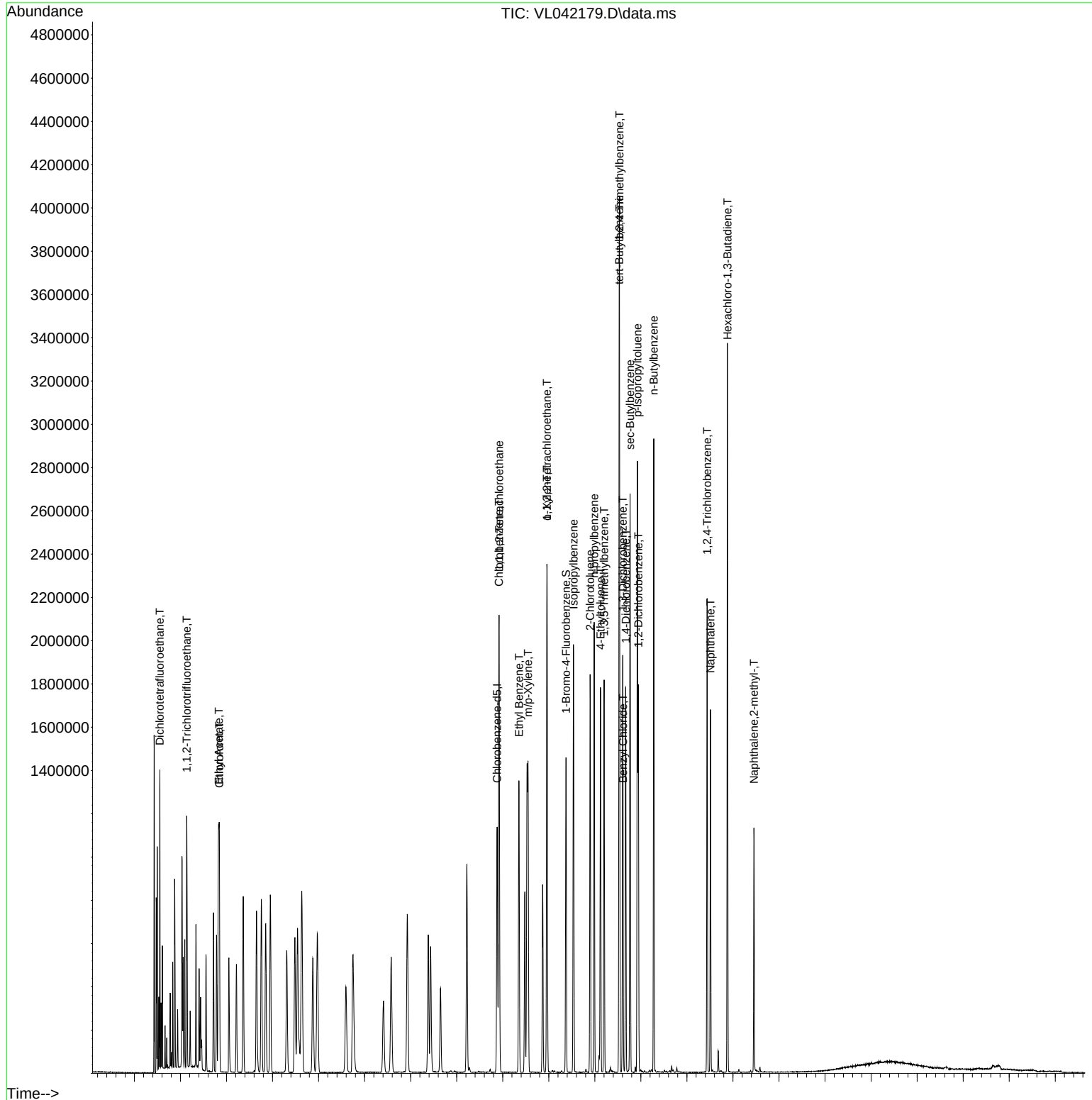
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Data File : VL042179.D  
Acq On : 27 Mar 2025 12:23  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

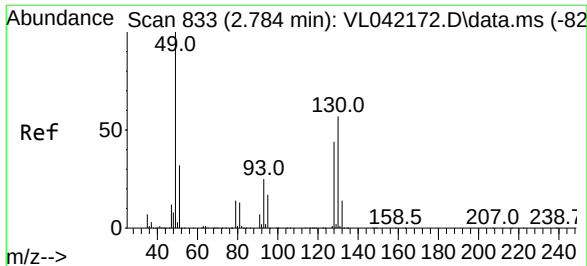
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

Quant Time: Mar 28 02:05:15 2025  
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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

Manual Integrations  
APPROVED

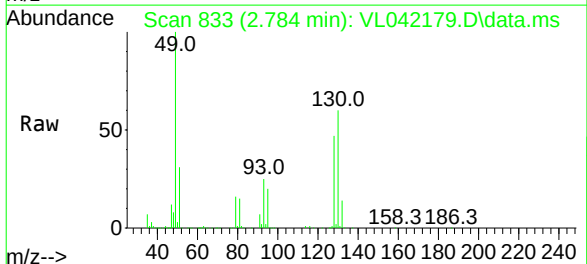
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 833  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

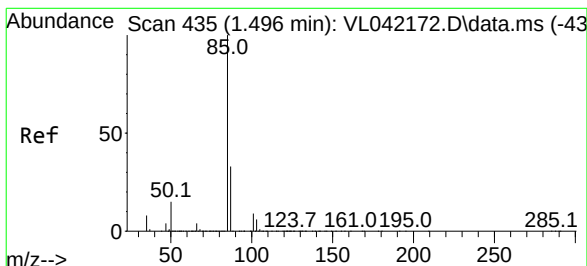
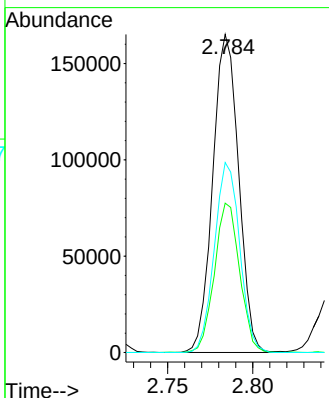
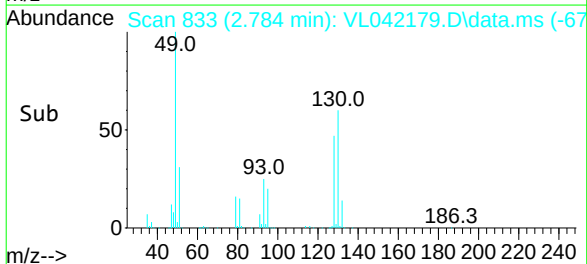
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725



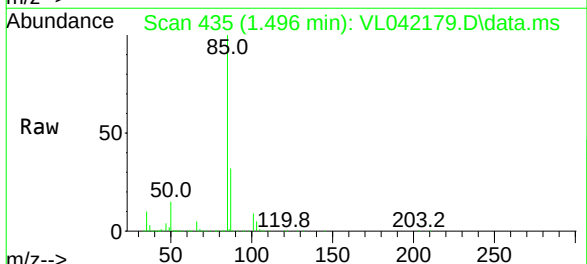
Tgt Ion: 49 Resp: 174356  
Ion Ratio Lower Upper  
49 100  
128 45.8 22.9 68.5  
130 58.4 28.8 86.4

Manual Integrations  
APPROVED

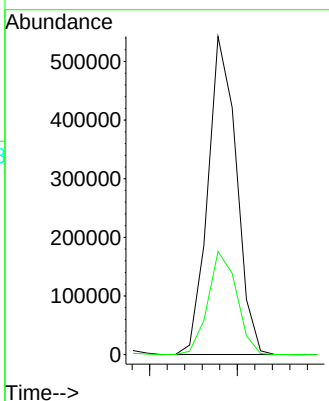
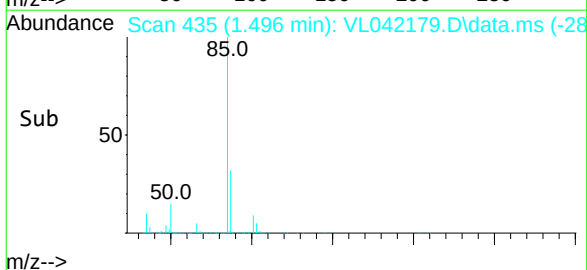
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



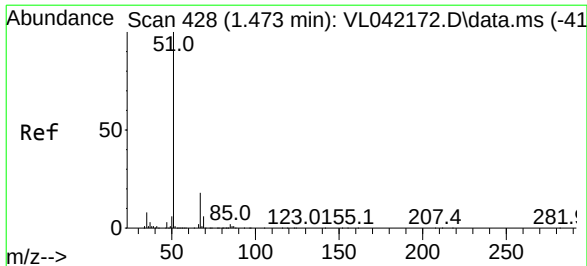
#2  
Dichlorodifluoromethane  
Concen: 9.545 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23



Tgt Ion: 85 Resp: 245714  
Ion Ratio Lower Upper  
85 100  
87 32.4 26.1 39.1







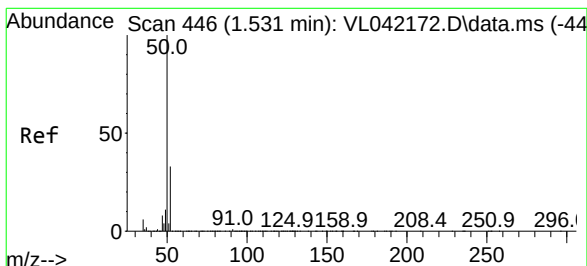
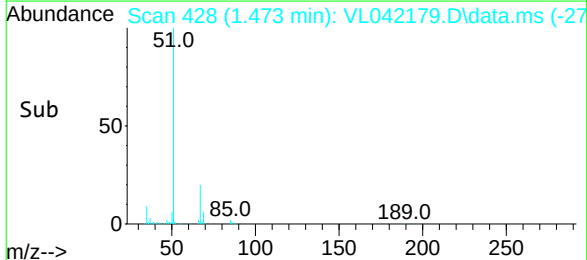
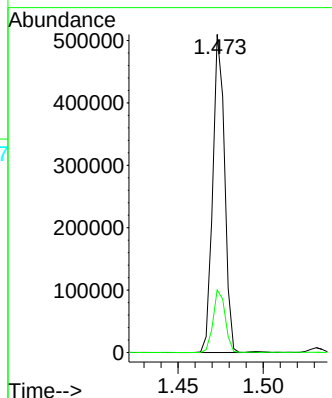
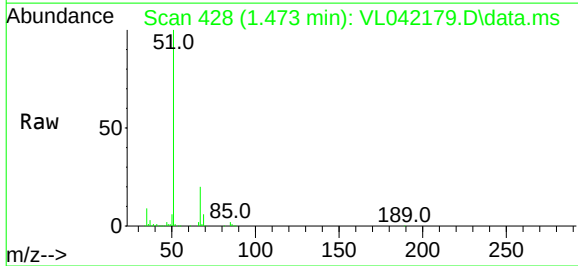
#3  
Chlorodifluoromethane  
Concen: 9.394 ppbv  
RT: 1.473 min Scan# 428  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725

Tgt Ion: 51 Resp: 247046  
Ion Ratio Lower Upper  
51 100  
67 20.1 15.0 22.6

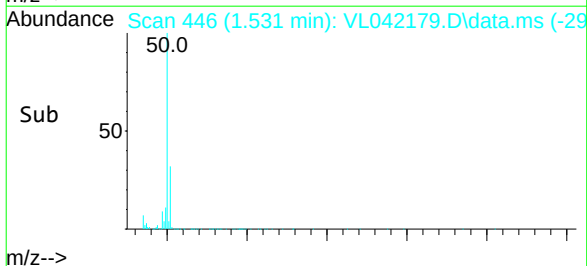
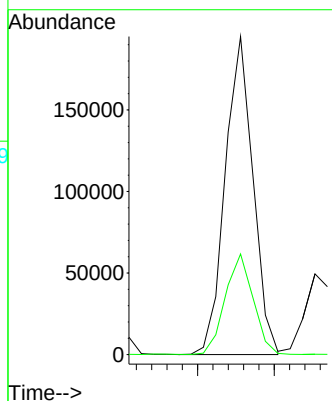
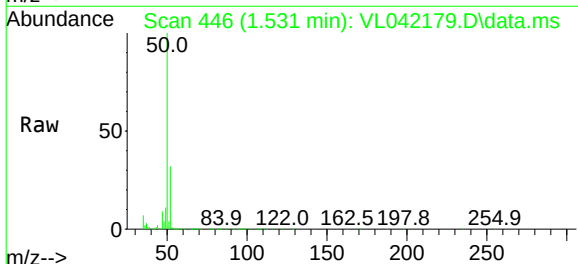
Manual Integrations  
APPROVED

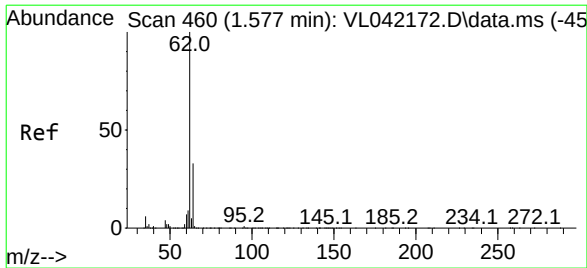
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#4  
Chloromethane  
Concen: 9.365 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 50 Resp: 98527  
Ion Ratio Lower Upper  
50 100  
52 31.6 26.1 39.1





#5  
 Vinyl Chloride  
 Concen: 8.573 ppbv  
 RT: 1.577 min Scan# 460  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Instrument :

MSVOA\_L

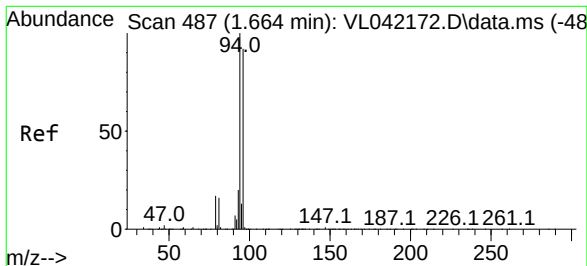
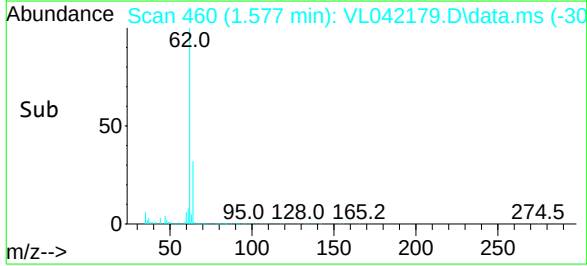
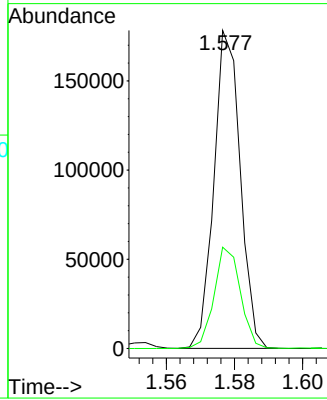
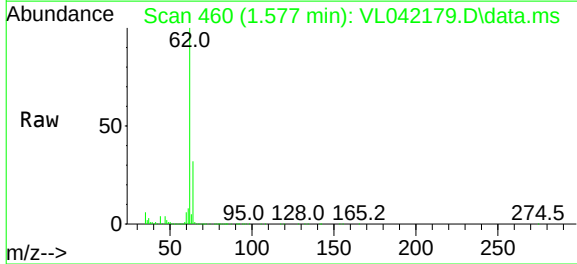
ClientSampleId :

ICVVL032725

Tgt Ion: 62 Resp: 95578  
 Ion Ratio Lower Upper  
 62 100  
 64 31.8 26.6 40.0

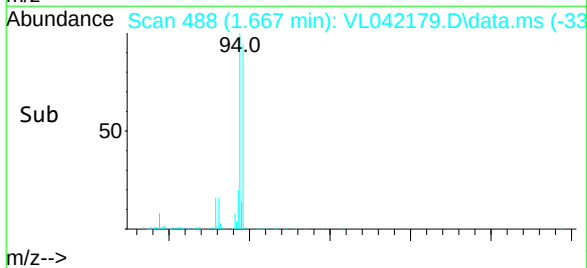
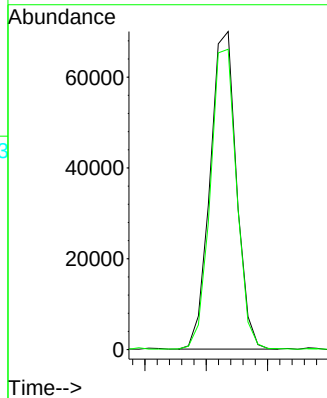
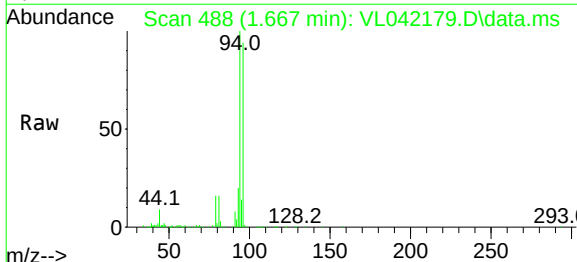
Manual Integrations  
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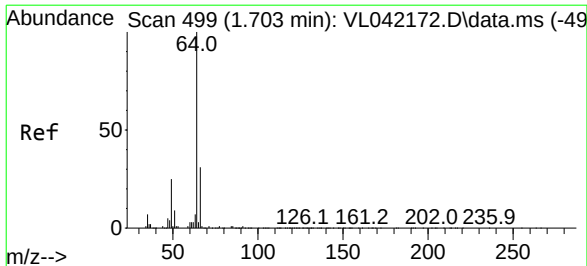
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#6  
 Bromomethane  
 Concen: 8.799 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. 0.003 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Tgt Ion: 94 Resp: 41950  
 Ion Ratio Lower Upper  
 94 100  
 96 94.4 73.1 109.7





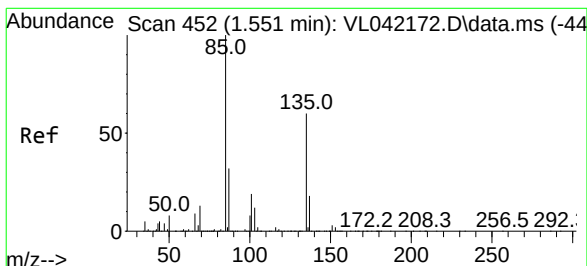
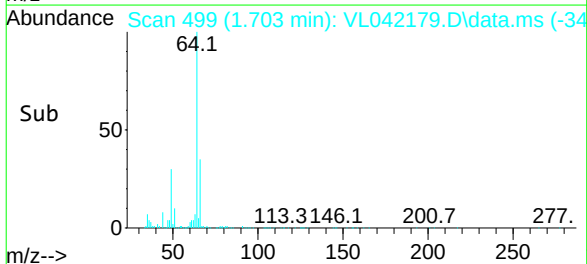
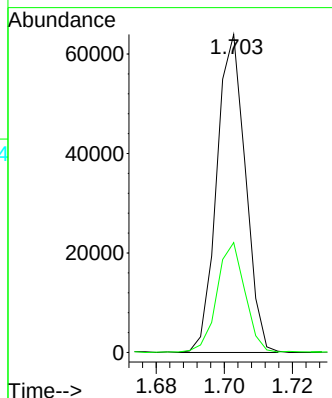
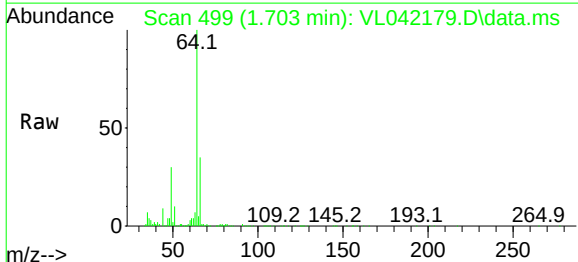
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Chloroethane  
Concen: 8.856 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725

Tgt Ion: 64 Resp: 37400  
Ion Ratio Lower Upper  
64 100  
66 34.5 25.2 37.8

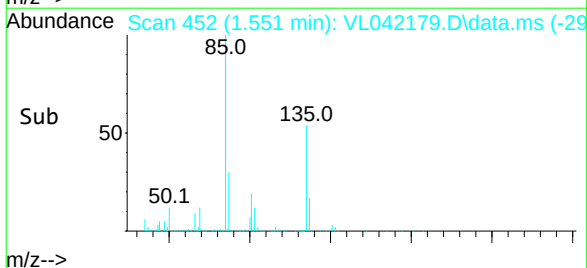
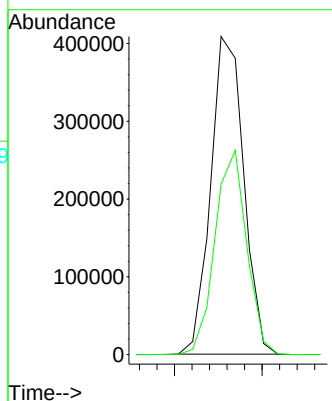
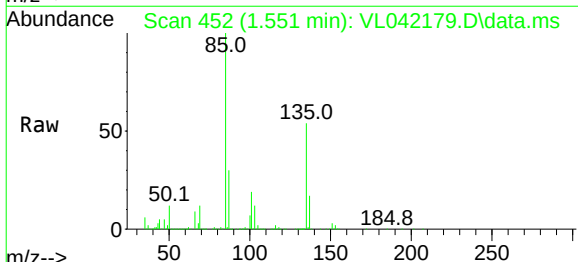
Manual Integrations  
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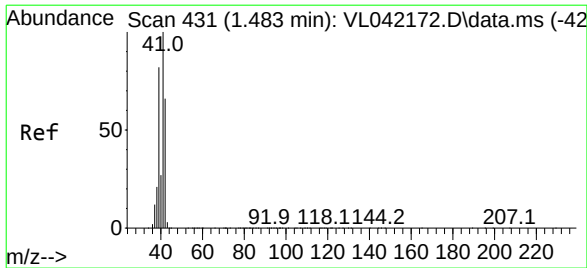
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#8  
Dichlorotetrafluoroethane  
Concen: 9.753 ppbv  
RT: 1.551 min Scan# 452  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

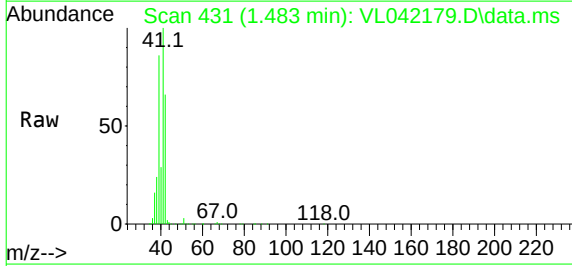
Tgt Ion: 85 Resp: 213819  
Ion Ratio Lower Upper  
85 100  
135 61.9 52.4 78.6





#9  
Propene  
Concen: 8.739 ppbv  
RT: 1.483 min Scan# 431  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

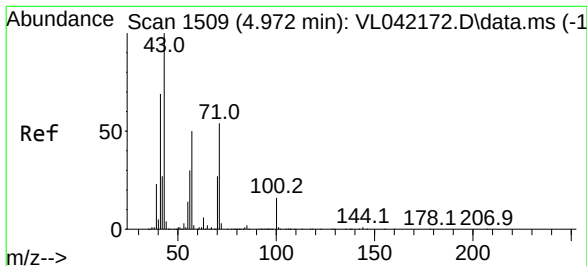
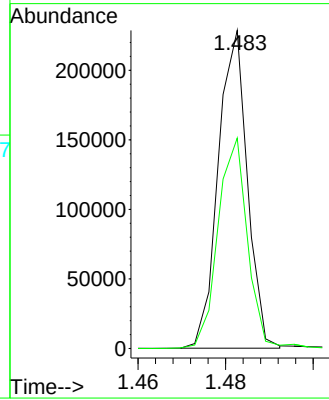
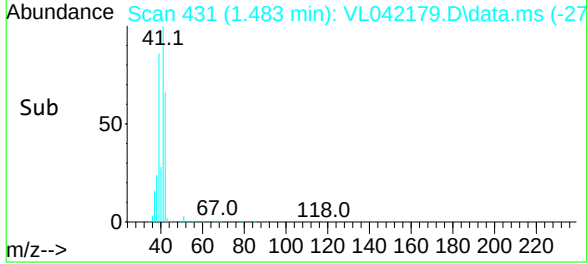
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725



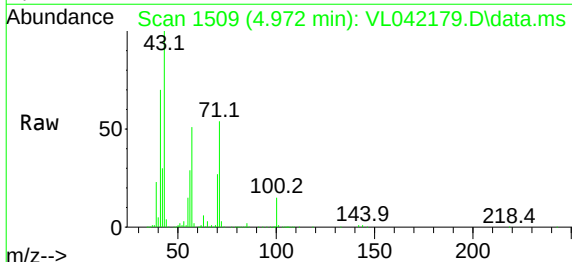
Tgt Ion: 41 Resp: 105338  
Ion Ratio Lower Upper  
41 100  
42 68.1 55.4 83.2

Manual Integrations  
APPROVED

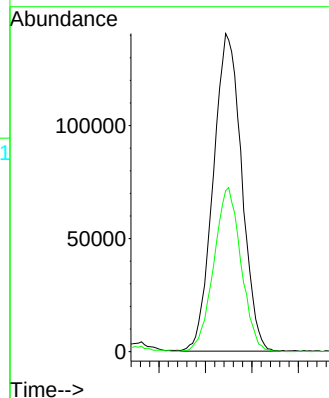
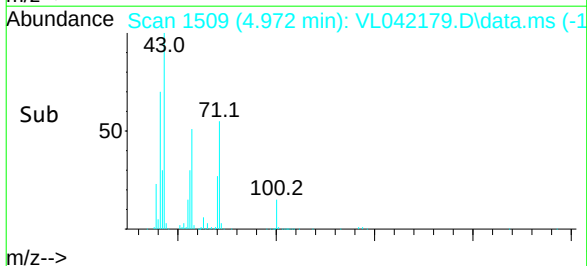
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

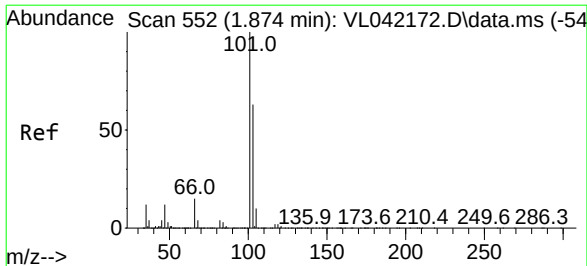


#10  
Heptane  
Concen: 9.318 ppbv  
RT: 4.972 min Scan# 1509  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23



Tgt Ion: 43 Resp: 298768  
Ion Ratio Lower Upper  
43 100  
57 49.5 39.4 59.2





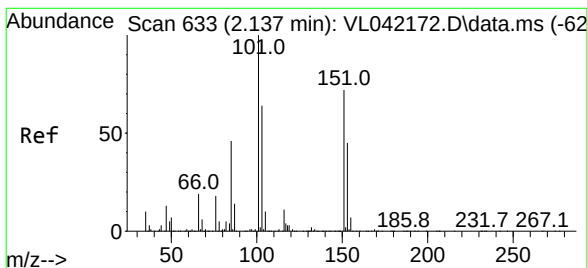
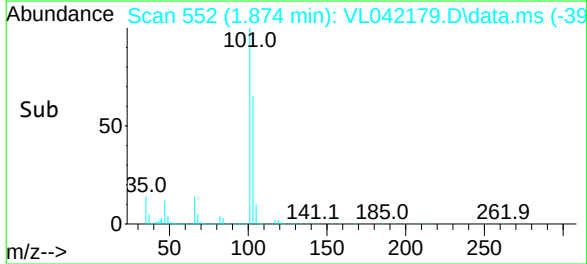
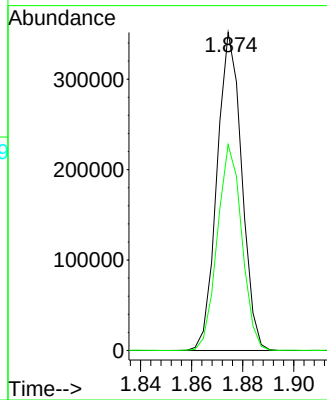
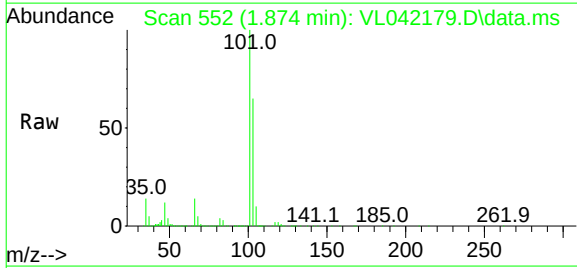
#11  
Trichlorofluoromethane  
Concen: 9.453 ppbv  
RT: 1.874 min Scan# 552  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725

Tgt Ion:101 Resp: 236793  
Ion Ratio Lower Upper  
101 100  
103 64.7 50.2 75.2

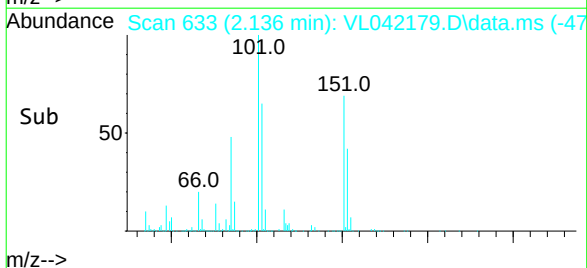
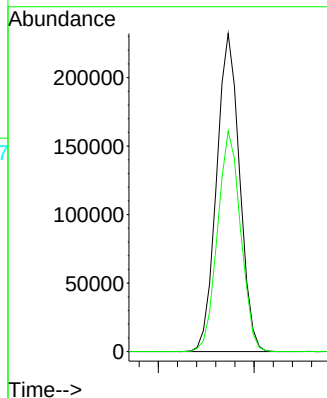
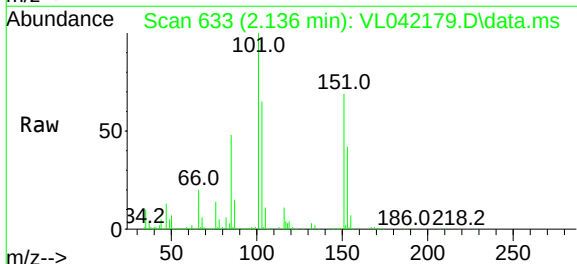
Manual Integrations  
APPROVED

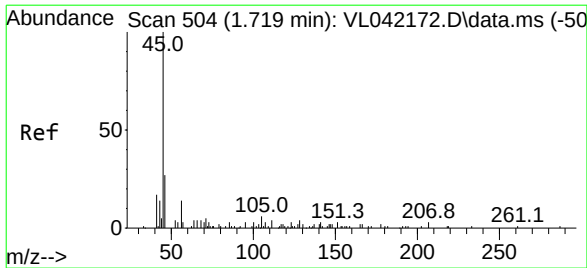
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.421 ppbv  
RT: 2.136 min Scan# 633  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion:101 Resp: 193965  
Ion Ratio Lower Upper  
101 100  
151 69.6 57.1 85.7





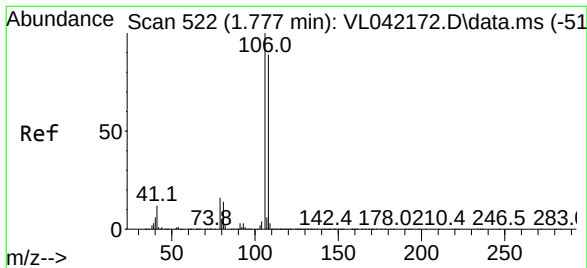
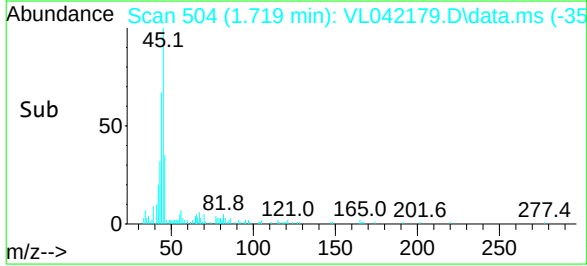
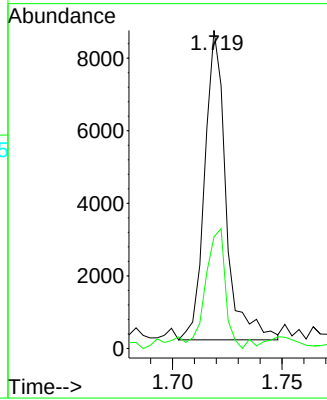
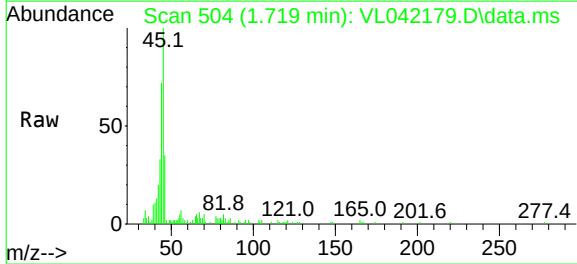
#13  
Ethanol  
Concen: 5.066 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

Tgt Ion: 45 Resp: 5773  
Ion Ratio Lower Upper  
45 100  
46 48.5 20.2 80.8

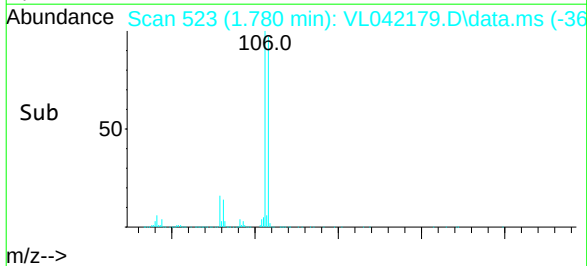
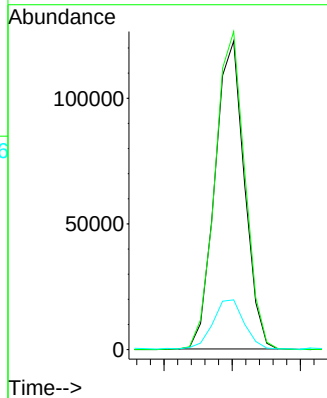
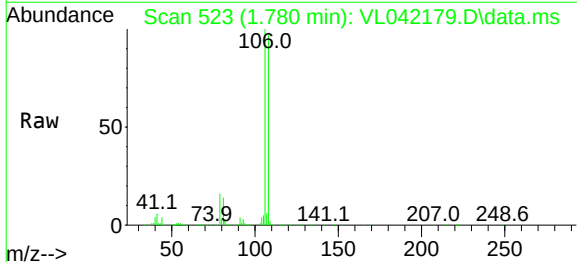
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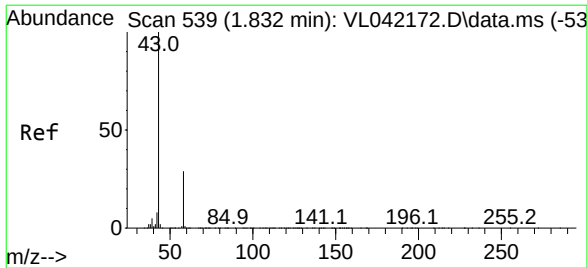
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#14  
Bromoethene  
Concen: 9.328 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion:108 Resp: 73572  
Ion Ratio Lower Upper  
108 100  
106 105.0 86.8 130.2  
79 18.8 15.0 22.6





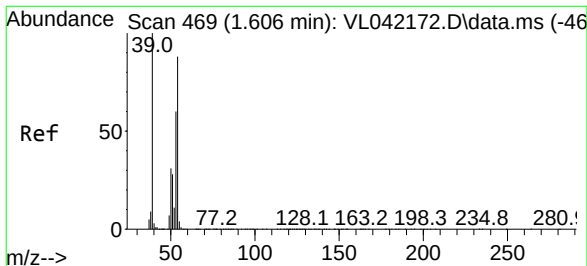
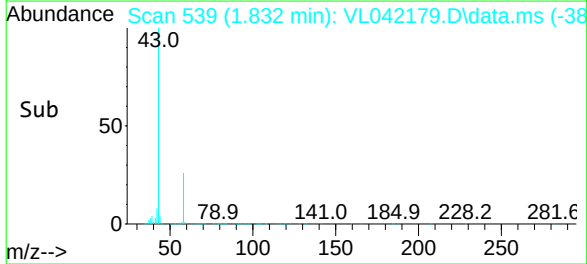
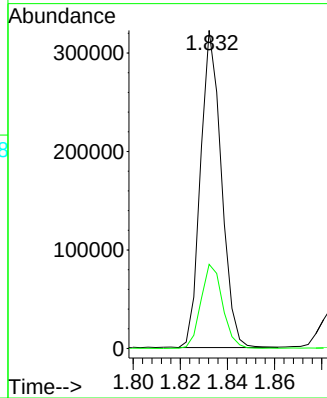
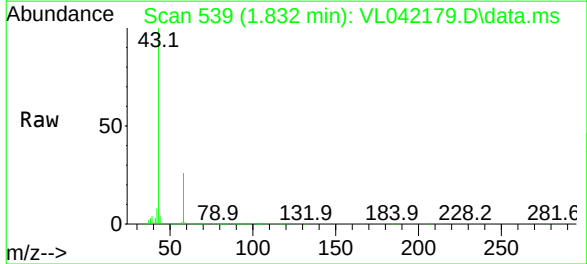
#15  
Acetone  
Concen: 8.132 ppbv  
RT: 1.832 min Scan# 539  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725

Tgt Ion: 43 Resp: 198300  
Ion Ratio Lower Upper  
43 100  
58 27.7 23.2 34.8

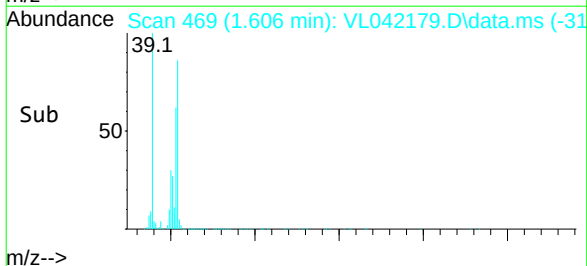
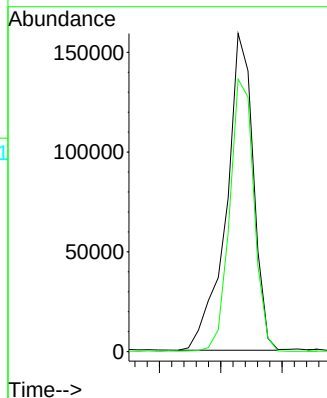
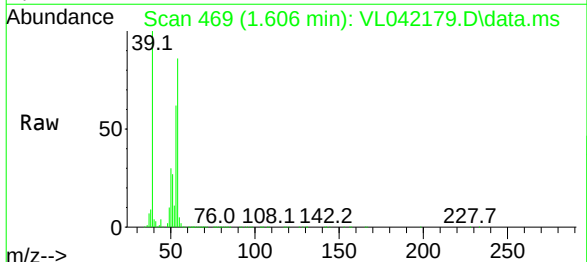
Manual Integrations  
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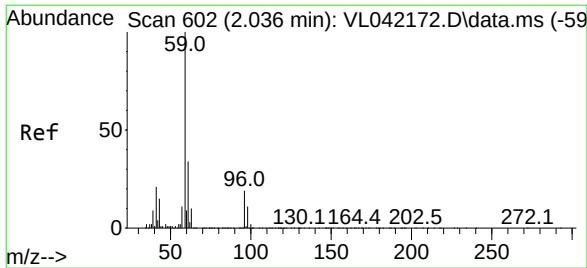
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#16  
1,3-Butadiene  
Concen: 8.216 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 39 Resp: 97840  
Ion Ratio Lower Upper  
39 100  
54 76.9 60.7 91.1





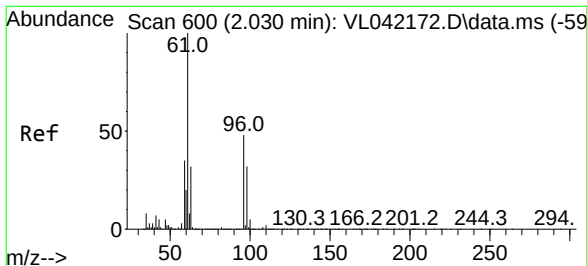
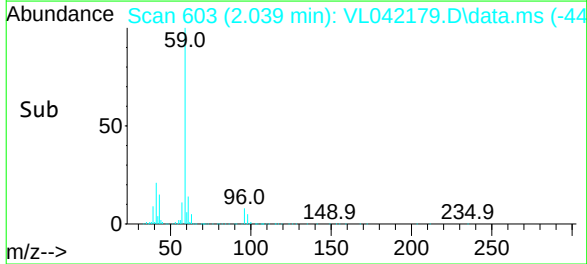
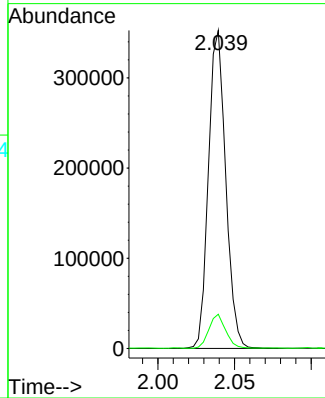
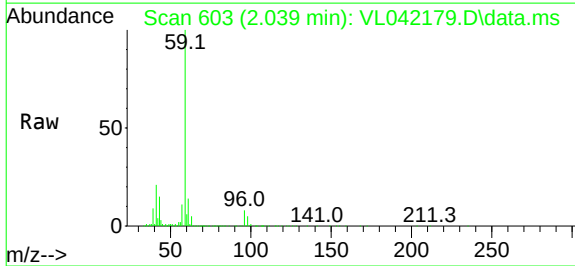
#17  
tert-Butyl alcohol  
Concen: 9.094 ppbv  
RT: 2.039 min Scan# 601  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

Tgt Ion: 59 Resp: 276195  
Ion Ratio Lower Upper  
59 100  
57 10.6 8.9 13.3

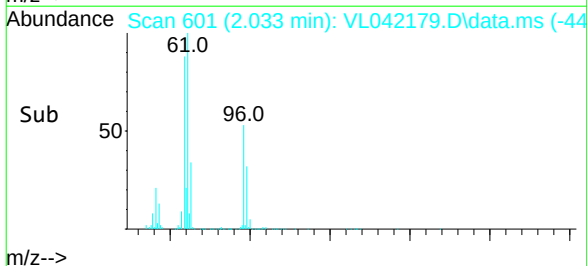
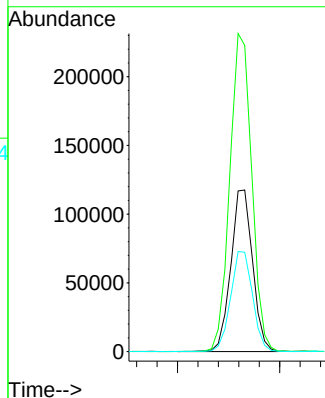
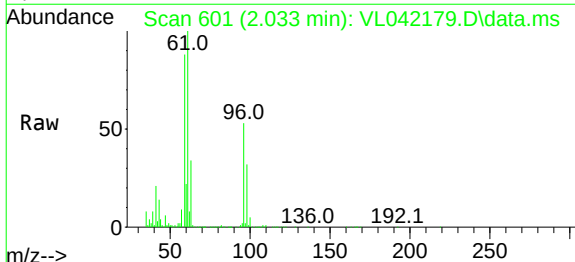
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

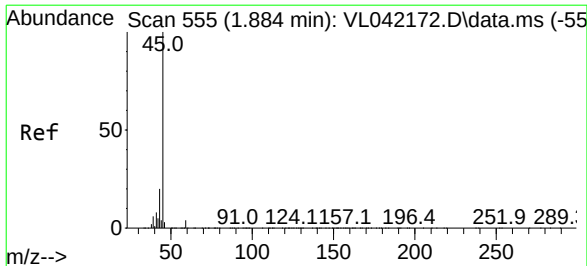


#18  
1,1-Dichloroethene  
Concen: 9.053 ppbv  
RT: 2.033 min Scan# 601  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 87137  
Ion Ratio Lower Upper  
96 100  
61 189.6 167.6 251.4  
98 61.5 53.5 80.3







#19  
Isopropyl Alcohol  
Concen: 8.923 ppbv  
RT: 1.884 min Scan# 555  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument :

MSVOA\_L

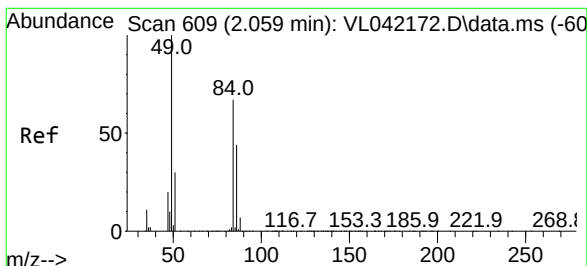
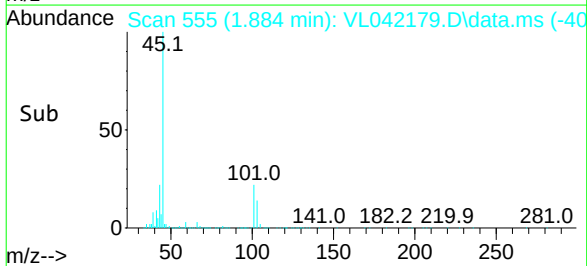
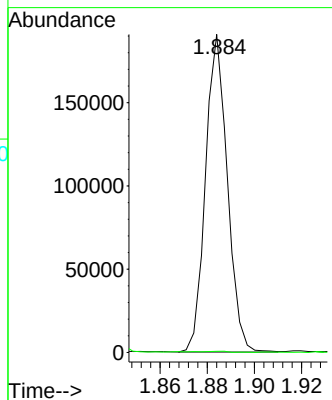
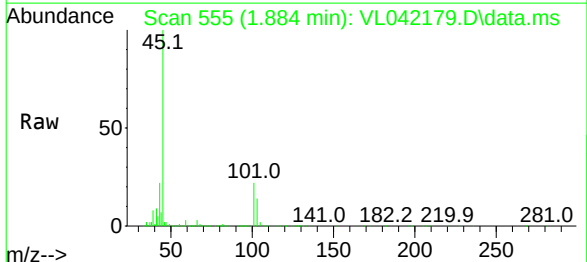
ClientSampleId :

ICVVL032725

Tgt Ion: 45 Resp: 122768  
Ion Ratio Lower Upper  
45 100  
58 44.9 36.9 55.3

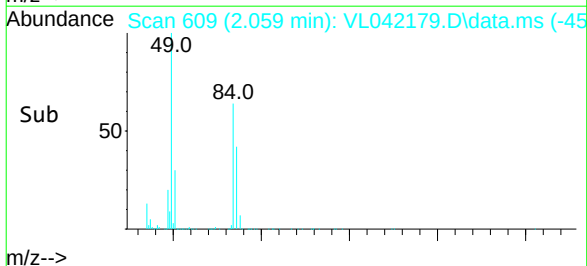
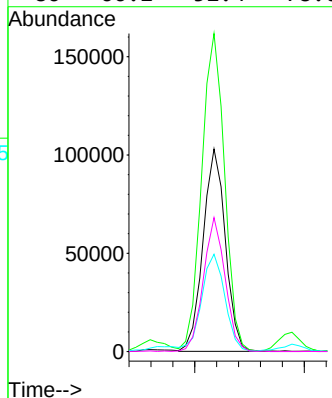
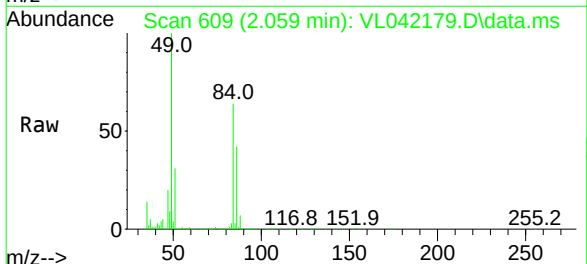
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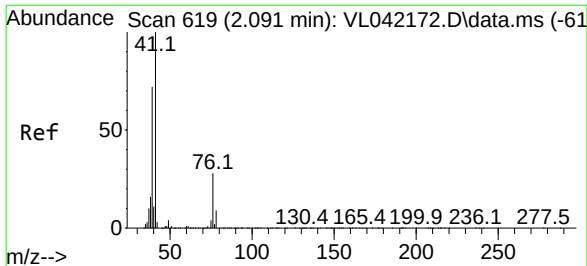
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#20  
Methylene Chloride  
Concen: 8.018 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 84 Resp: 72813  
Ion Ratio Lower Upper  
84 100  
49 155.8 120.2 180.4  
51 46.4 37.4 56.0  
86 66.2 52.4 78.6





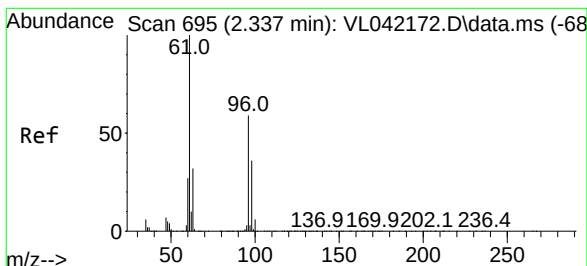
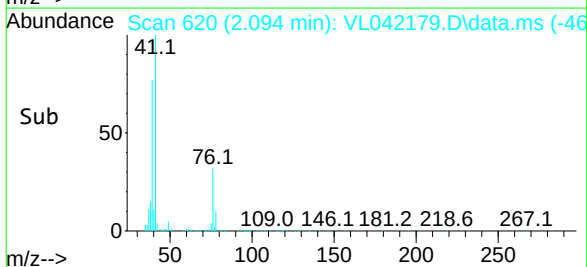
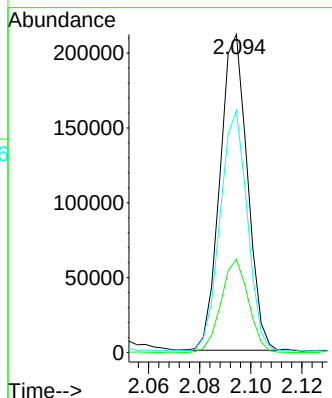
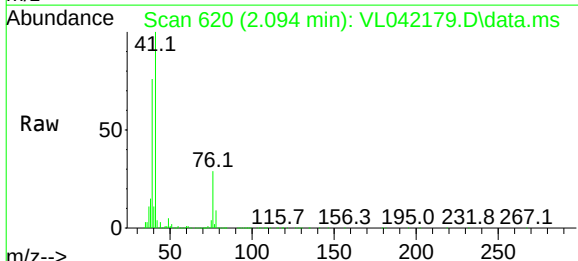
#21  
 Allyl Chloride  
 Concen: 9.154 ppbv  
 RT: 2.094 min Scan# 621  
 Delta R.T. 0.003 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL032725

Tgt Ion: 41 Resp: 157418  
 Ion Ratio Lower Upper  
 41 100  
 76 29.6 24.1 36.1  
 39 75.5 61.1 91.7

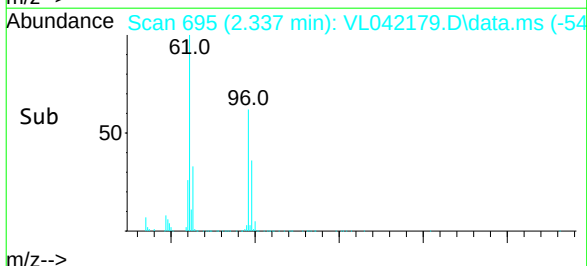
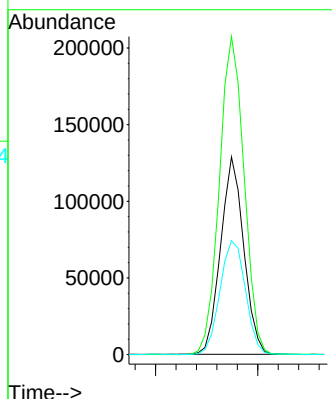
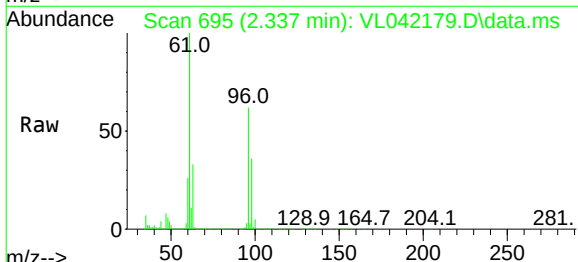
Manual Integrations  
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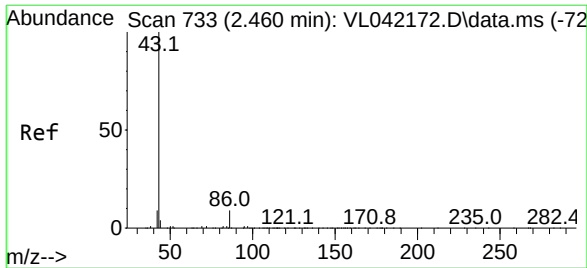
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.092 ppbv  
 RT: 2.337 min Scan# 695  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 101141  
 Ion Ratio Lower Upper  
 96 100  
 61 161.2 136.6 204.8  
 98 57.7 49.4 74.2





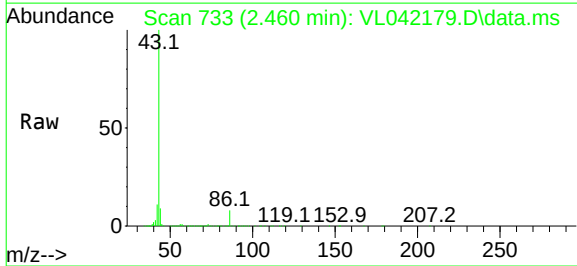
#23  
 Vinyl Acetate  
 Concen: 8.553 ppbv  
 RT: 2.460 min Scan# 733  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Instrument :

MSVOA\_L

ClientSampleId :

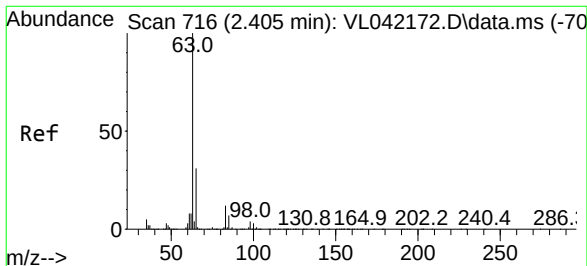
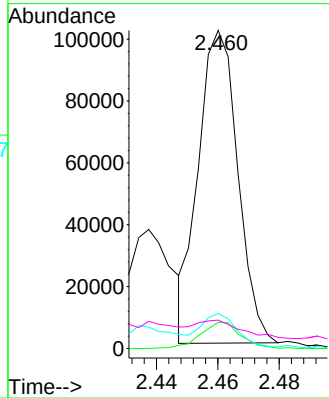
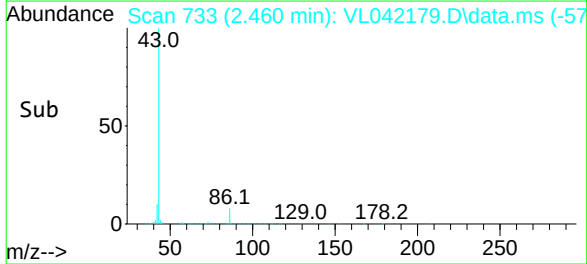
ICVVL032725



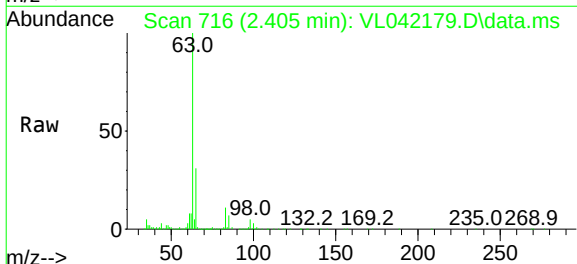
| Tgt Ion: | 43    | Resp: | 90260 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 8.3   | 5.5   | 8.3#  |
| 42       | 10.7  | 8.6   | 13.0# |
| 44       | 5.5   | 6.2   | 9.4#  |

Manual Integrations  
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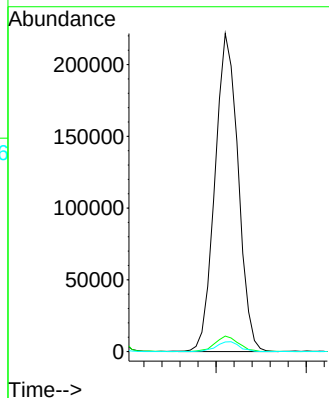
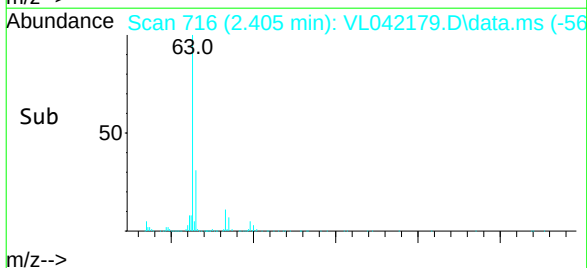
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

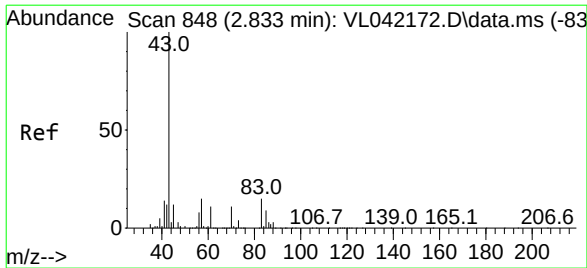


#24  
 1,1-Dichloroethane  
 Concen: 9.600 ppbv  
 RT: 2.405 min Scan# 716  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23



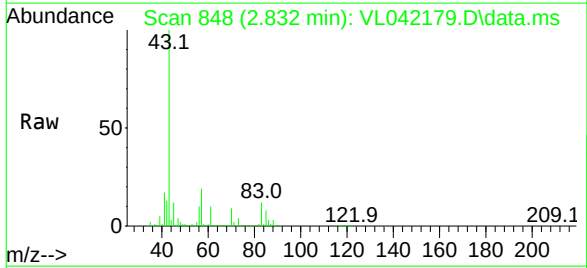
| Tgt Ion: | 63    | Resp: | 197968 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 4.8   | 2.3   | 6.8    |
| 100      | 3.0   | 1.6   | 4.7    |





#25  
Ethyl Acetate  
Concen: 9.364 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

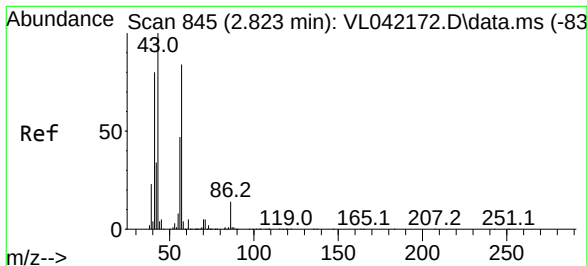
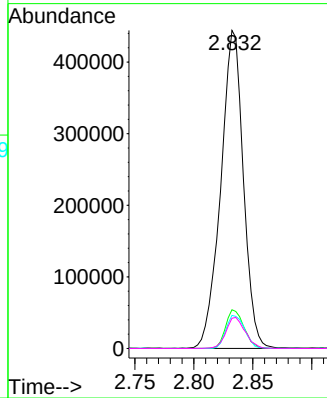
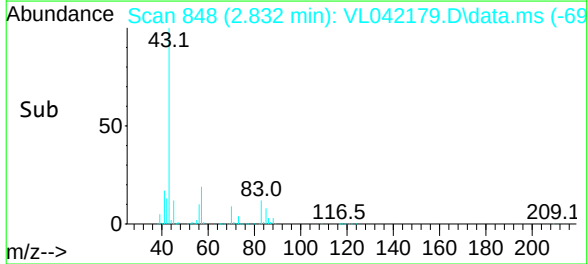
Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725



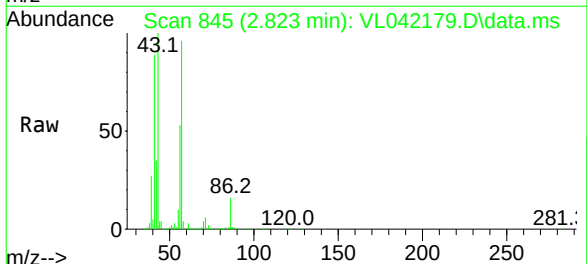
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 592585 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 45 9.9      | 8.2 12.2     |
| 61 8.7      | 7.3 10.9     |
| 70 8.4      | 7.2 10.8     |

Manual Integrations  
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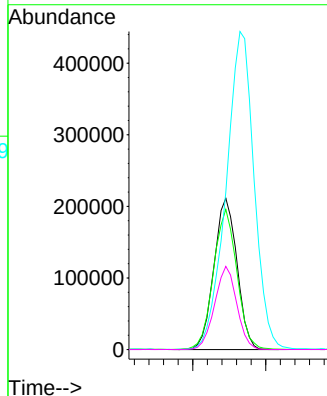
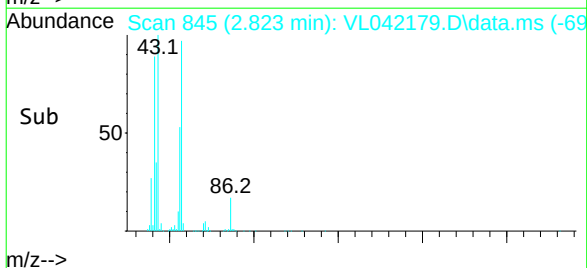
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

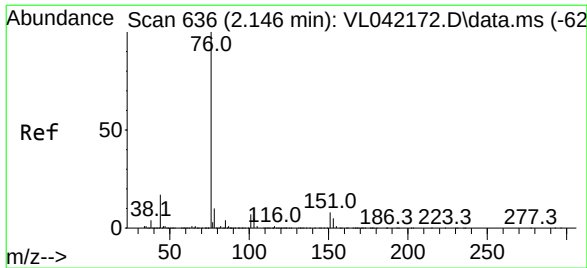


#26  
Hexane  
Concen: 9.455 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23



|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 231125 |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 95.2     | 76.6 114.8   |
| 43 256.8    | 207.8 311.8  |
| 56 53.0     | 43.6 65.4    |





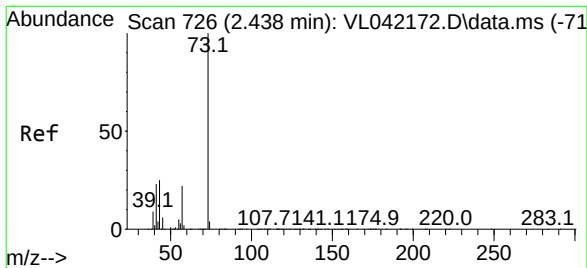
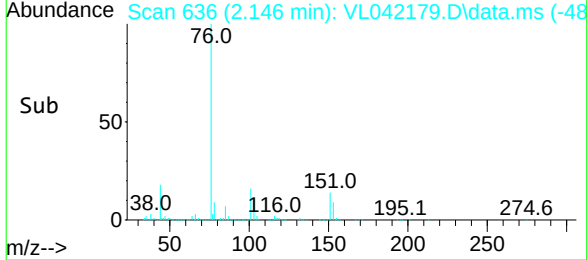
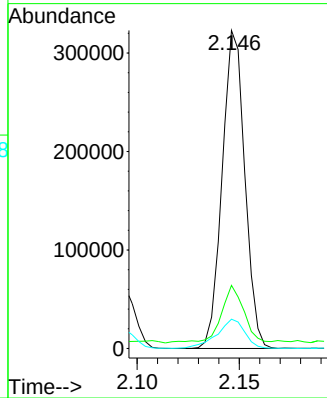
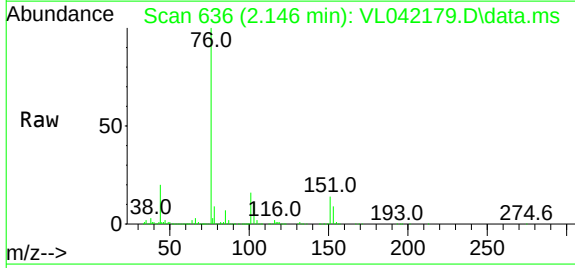
#27  
Carbon Disulfide  
Concen: 9.493 ppbv  
RT: 2.146 min Scan# 636  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725

Tgt Ion: 76 Resp: 248834  
Ion Ratio Lower Upper  
76 100  
44 20.1 14.7 22.1  
78 11.3 9.3 13.9

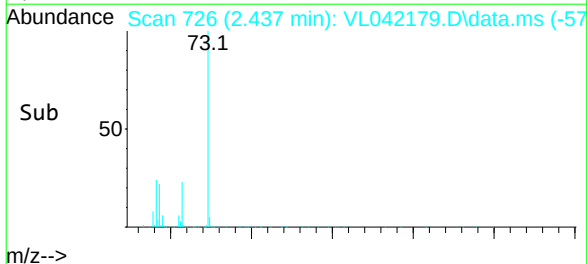
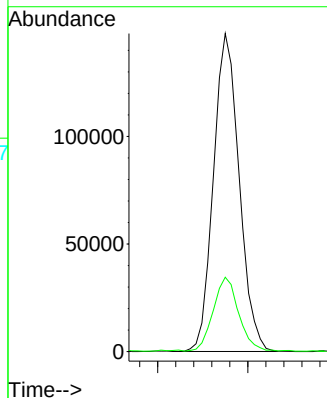
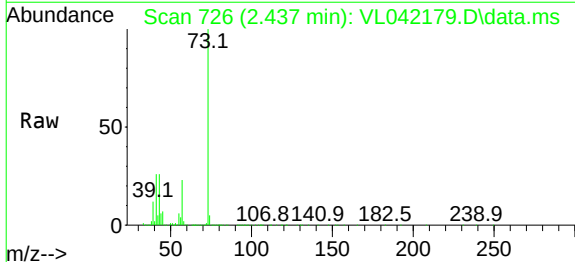
Manual Integrations  
APPROVED

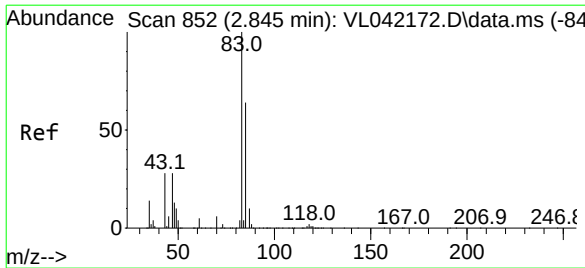
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#28  
Methyl tert-Butyl Ether  
Concen: 9.624 ppbv  
RT: 2.437 min Scan# 726  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

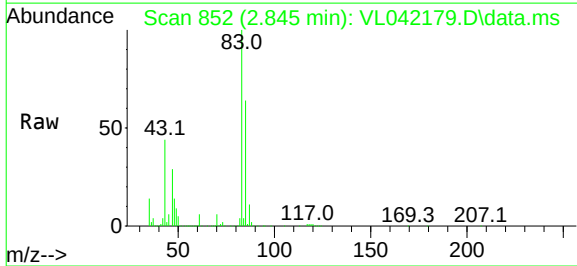
Tgt Ion: 73 Resp: 146470  
Ion Ratio Lower Upper  
73 100  
57 23.3 20.5 30.7





#29  
Chloroform  
Concen: 9.619 ppbv  
RT: 2.845 min Scan# 85  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

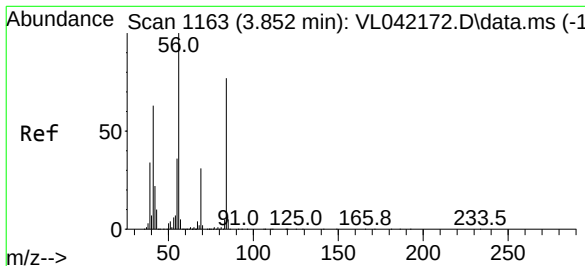
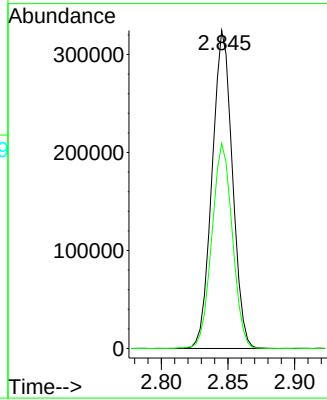
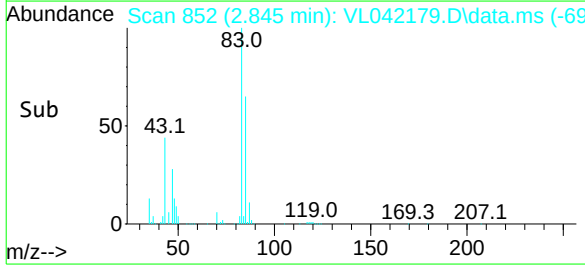
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725



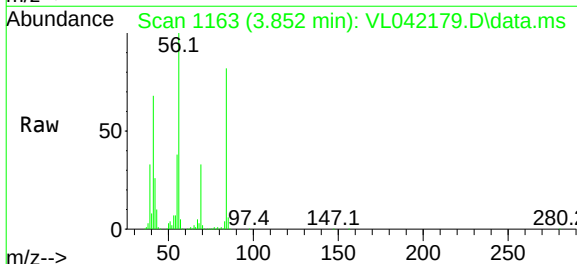
Tgt Ion: 83 Resp: 344106  
Ion Ratio Lower Upper  
83 100  
85 64.5 51.4 77.2

Manual Integrations  
APPROVED

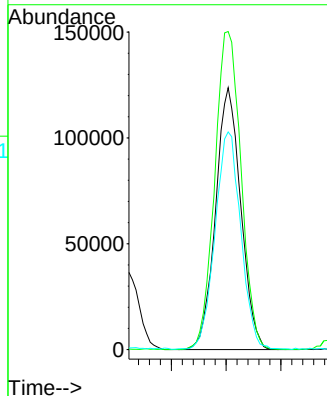
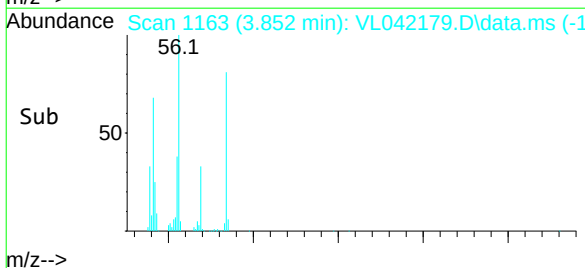
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

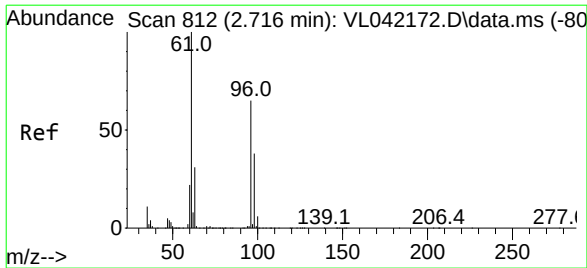


#30  
Cyclohexane  
Concen: 9.323 ppbv  
RT: 3.852 min Scan# 1163  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23



Tgt Ion: 84 Resp: 197897  
Ion Ratio Lower Upper  
84 100  
56 126.8 102.8 154.2  
41 84.6 66.5 99.7





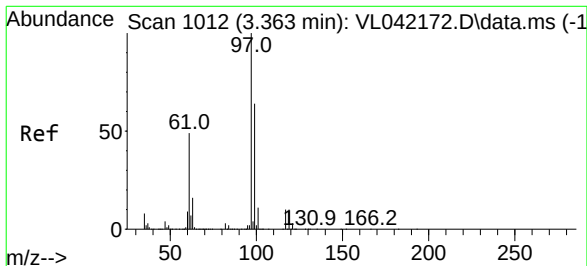
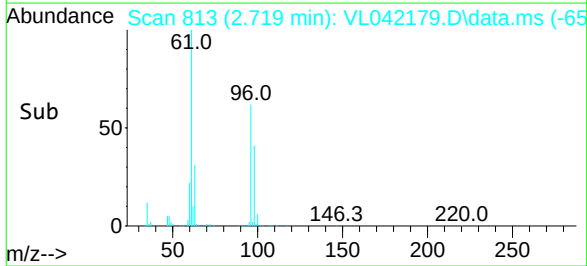
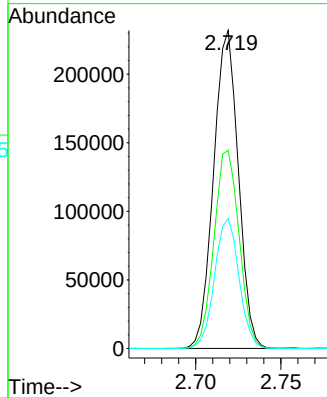
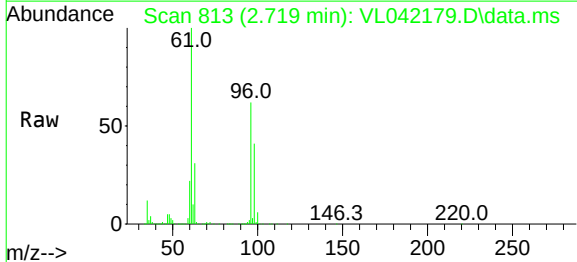
#31  
cis-1,2-Dichloroethene  
Concen: 9.449 ppbv  
RT: 2.719 min Scan# 812  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 61    | Resp: | 234487 |
| Ion      | Ratio | Lower | Upper  |
| 61       | 100   |       |        |
| 96       | 62.3  | 51.8  | 77.8   |
| 98       | 40.9  | 30.6  | 46.0   |

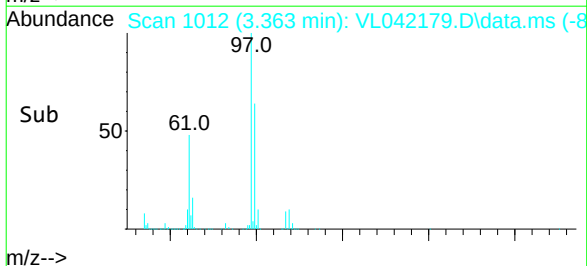
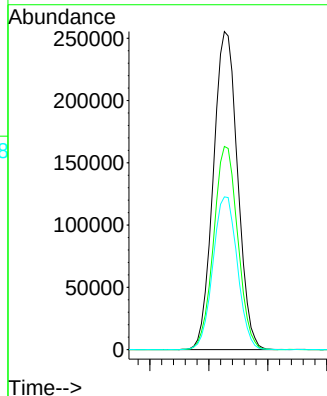
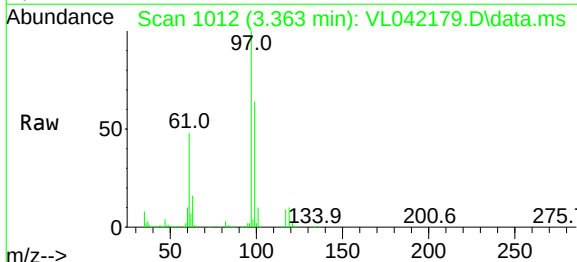
Manual Integrations  
APPROVED

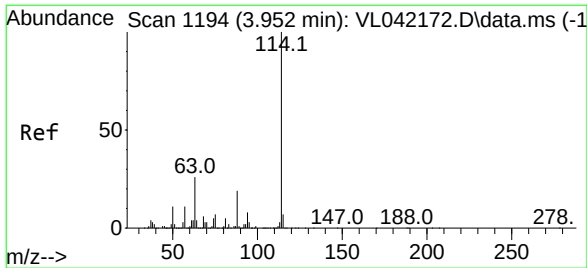
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#32  
1,1,1-Trichloroethane  
Concen: 8.921 ppbv  
RT: 3.363 min Scan# 1012  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

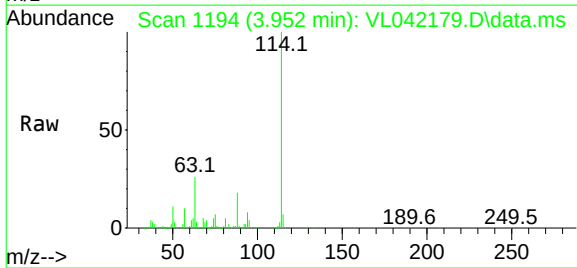
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 365364 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 63.4  | 51.5  | 77.3   |
| 61       | 48.4  | 38.7  | 58.1   |





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.952 min Scan# 1194  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

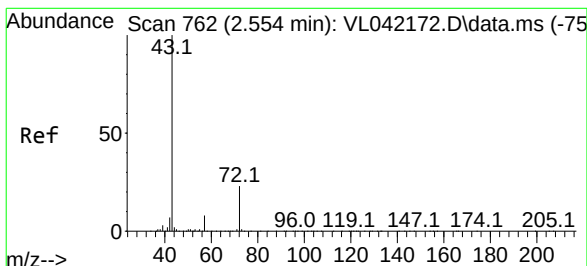
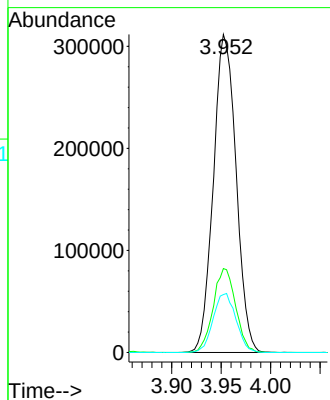
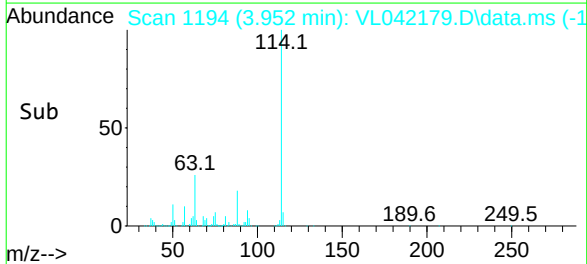
Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725



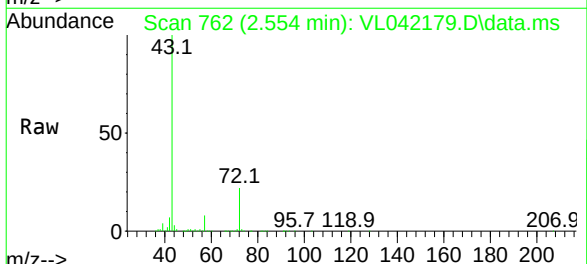
Tgt Ion: 114 Resp: 498105  
Ion Ratio Lower Upper  
114 100  
63 26.1 20.7 31.1  
88 18.7 15.0 22.4

Manual Integrations  
APPROVED

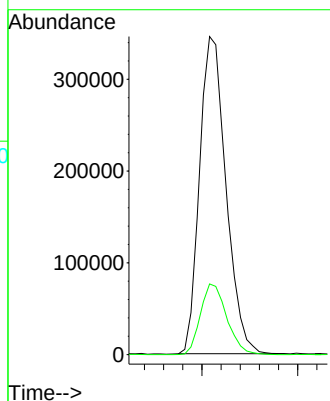
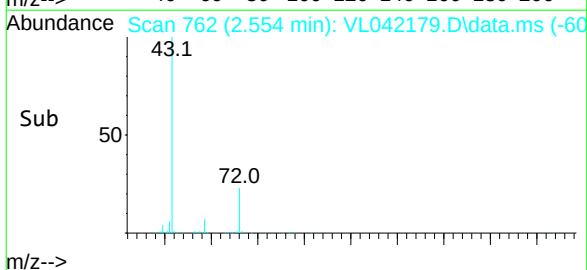
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



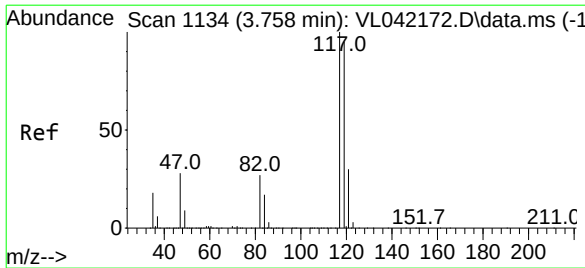
#34  
2-Butanone  
Concen: 9.171 ppbv  
RT: 2.554 min Scan# 762  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23



Tgt Ion: 43 Resp: 331236  
Ion Ratio Lower Upper  
43 100  
72 22.2 18.2 27.2

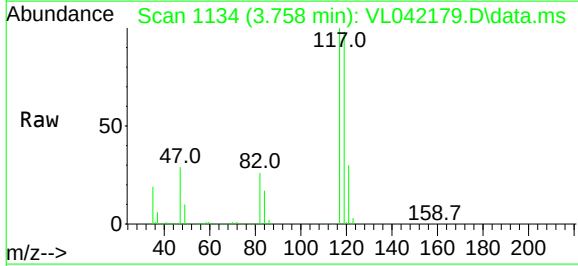






#35  
Carbon Tetrachloride  
Concen: 9.339 ppbv  
RT: 3.758 min Scan# 111  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

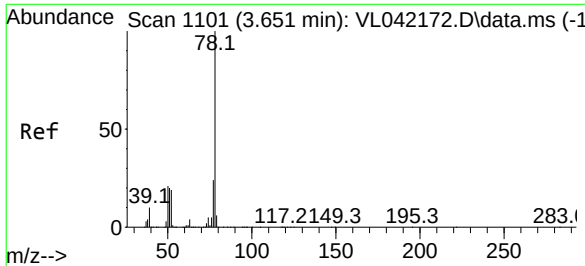
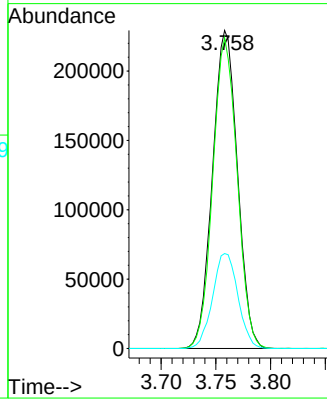
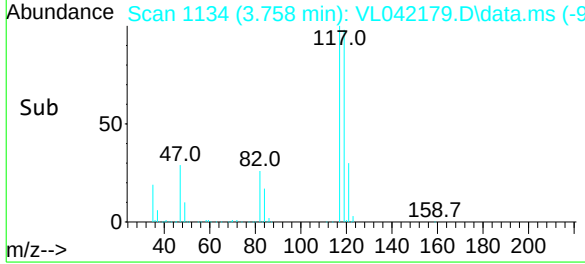
Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725



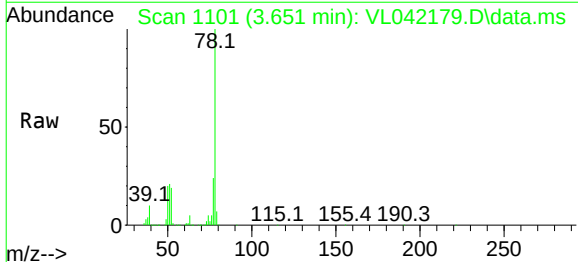
Tgt Ion: 117 Resp: 363392  
Ion Ratio Lower Upper  
117 100  
119 97.7 76.2 114.2  
121 29.9 24.2 36.4

Manual Integrations  
APPROVED

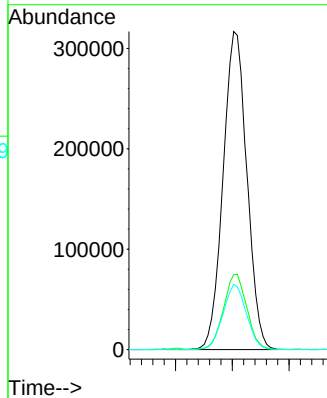
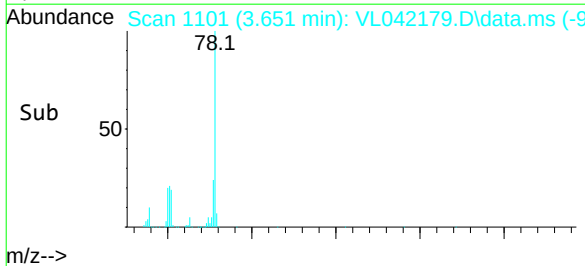
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

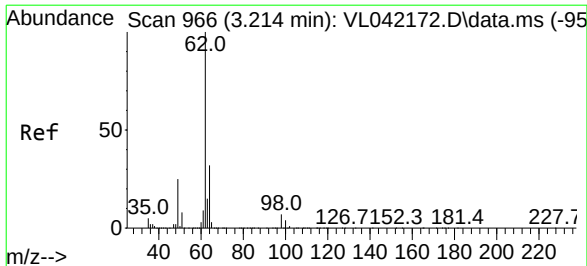


#36  
Benzene  
Concen: 9.341 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23



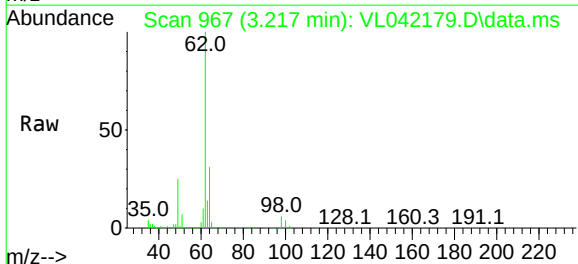
Tgt Ion: 78 Resp: 461261  
Ion Ratio Lower Upper  
78 100  
77 23.5 19.1 28.7  
50 20.4 16.6 24.8





#37  
1,2-Dichloroethane  
Concen: 9.676 ppbv  
RT: 3.217 min Scan# 96  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

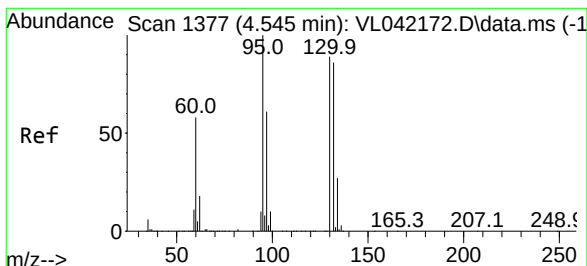
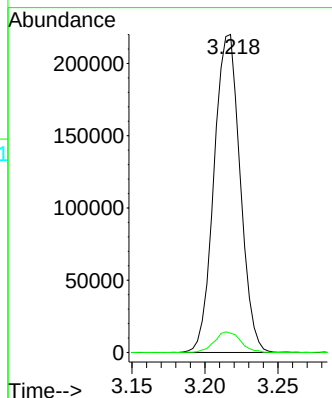
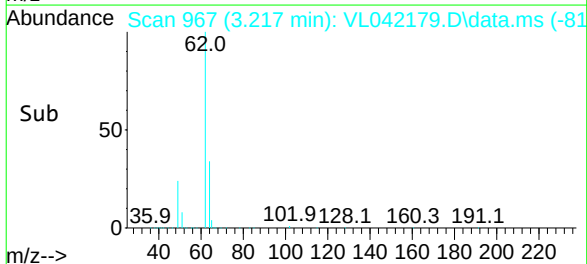
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725



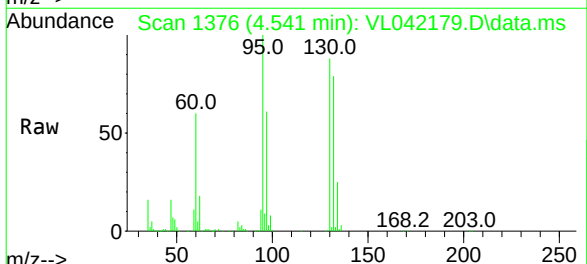
Tgt Ion: 62 Resp: 273559  
Ion Ratio Lower Upper  
62 100  
98 6.6 5.4 8.2

Manual Integrations  
APPROVED

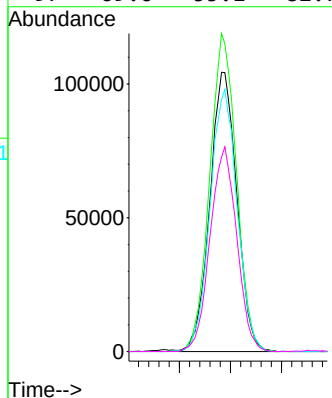
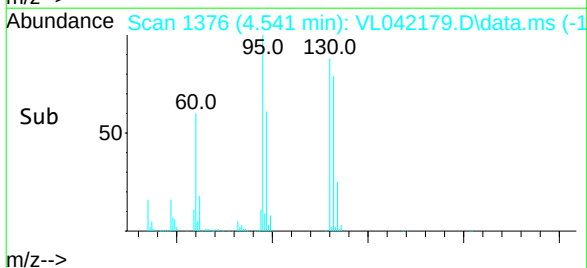
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

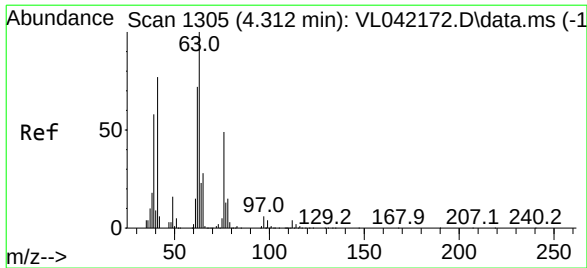


#38  
Trichloroethene  
Concen: 9.306 ppbv  
RT: 4.541 min Scan# 1376  
Delta R.T. -0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23



Tgt Ion:130 Resp: 191746  
Ion Ratio Lower Upper  
130 100  
95 113.9 89.8 134.8  
132 90.3 77.4 116.2  
97 69.6 55.1 82.7





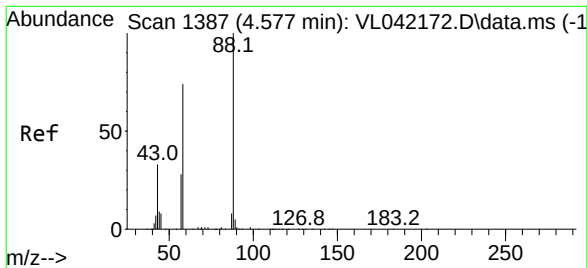
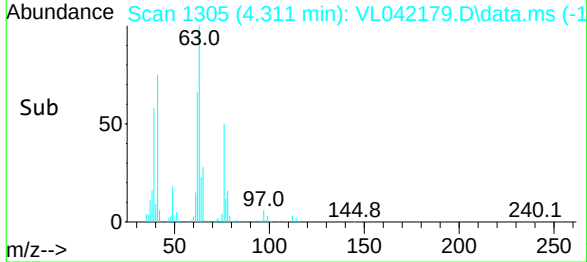
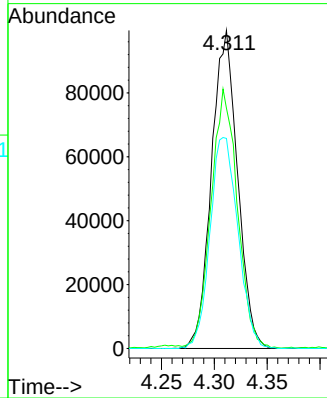
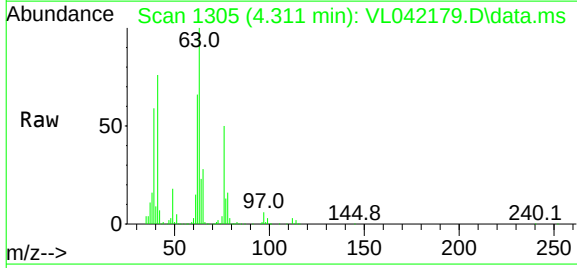
#39  
1,2-Dichloropropane  
Concen: 9.500 ppbv  
RT: 4.311 min Scan# 1305  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725

Tgt Ion: 63 Resp: 170839  
Ion Ratio Lower Upper  
63 100  
41 75.3 61.7 92.5  
62 66.0 57.6 86.4

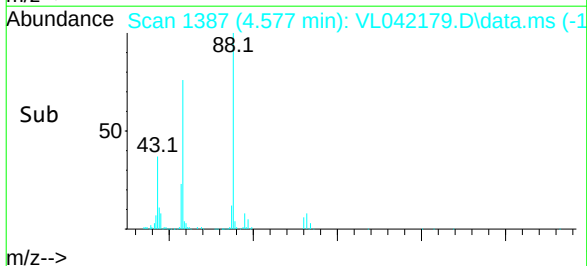
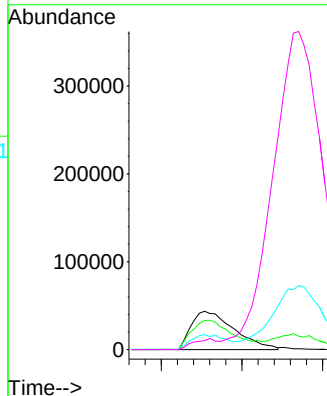
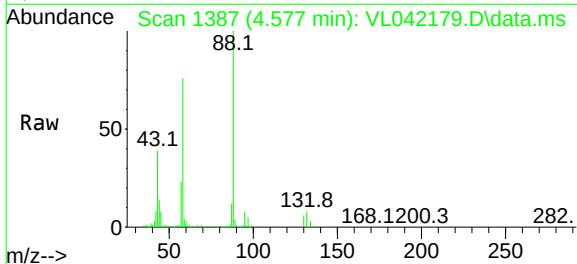
Manual Integrations  
APPROVED

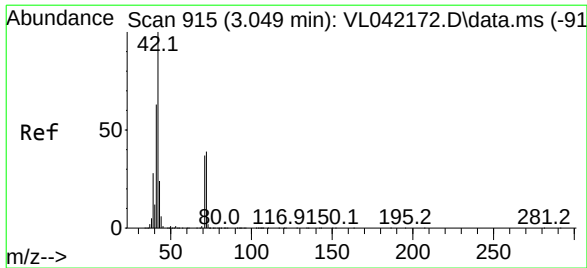
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#40  
1,4-Dioxane  
Concen: 8.443 ppbv  
RT: 4.577 min Scan# 1387  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

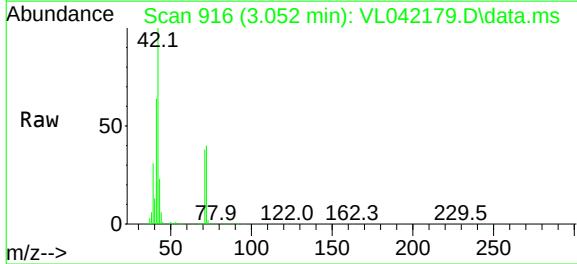
Tgt Ion: 88 Resp: 80592  
Ion Ratio Lower Upper  
88 100  
58 76.2 62.7 94.1  
43 31.4 23.0 34.4  
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 9.431 ppbv  
RT: 3.052 min Scan# 91  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

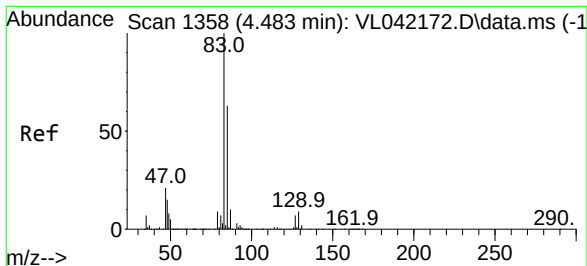
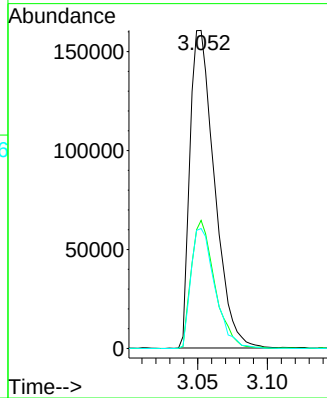
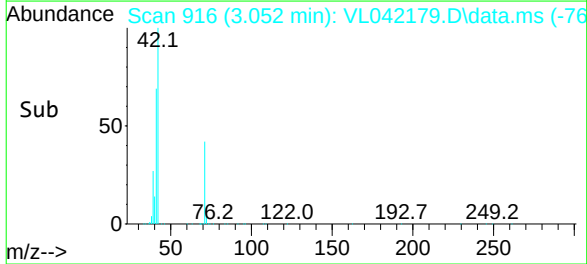
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725



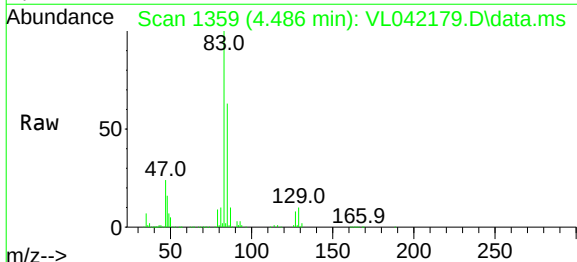
Tgt Ion: 42 Resp: 196163  
Ion Ratio Lower Upper  
42 100  
72 38.9 31.4 47.0  
71 37.2 30.2 45.4

Manual Integrations  
APPROVED

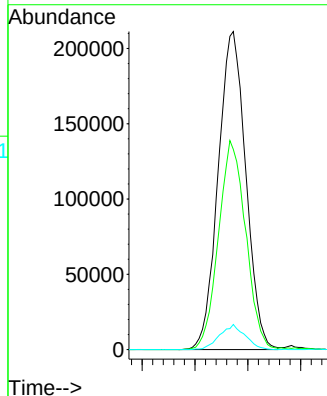
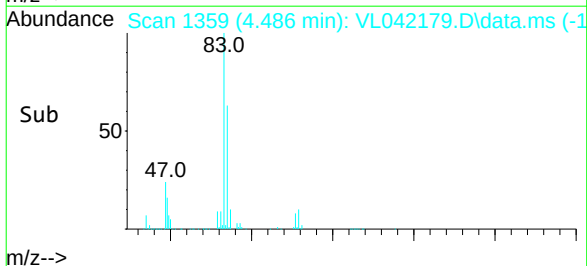
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

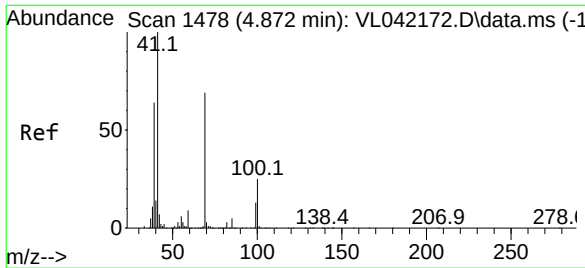


#42  
Bromodichloromethane  
Concen: 9.853 ppbv  
RT: 4.486 min Scan# 1359  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23



Tgt Ion: 83 Resp: 384006  
Ion Ratio Lower Upper  
83 100  
85 63.0 50.5 75.7  
127 7.9 5.9 8.9





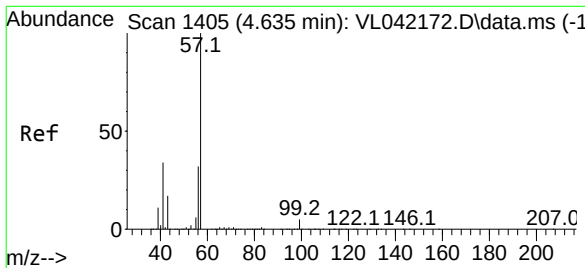
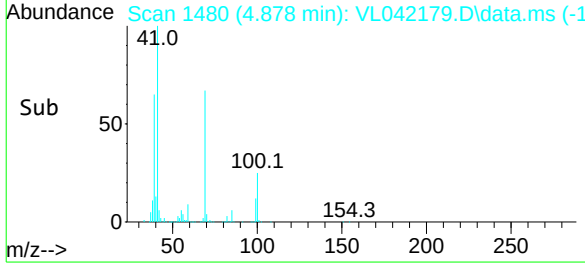
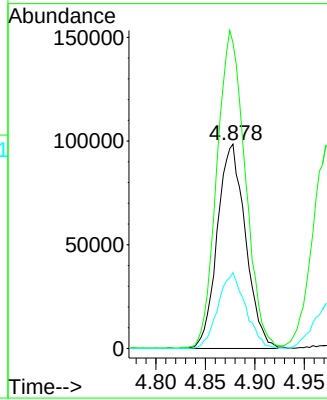
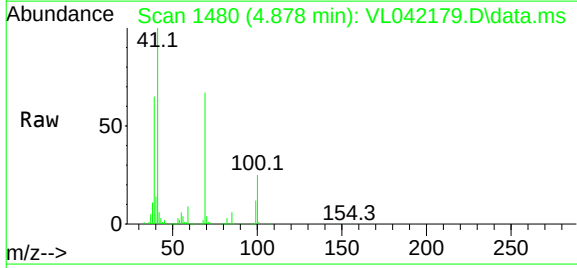
#43  
Methyl Methacrylate  
Concen: 9.344 ppbv  
RT: 4.878 min Scan# 1478  
Delta R.T. 0.006 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_1  
ClientSampleId : ICVVL032725

|             |              |
|-------------|--------------|
| Tgt Ion: 69 | Resp: 195339 |
| Ion Ratio   | Lower Upper  |
| 69 100      |              |
| 41 156.4    | 123.8 185.6  |
| 100 36.4    | 28.4 42.6    |

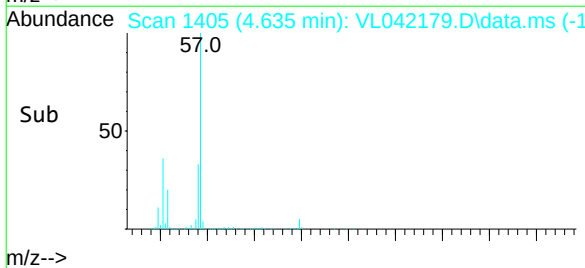
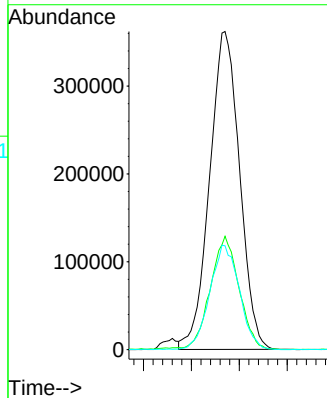
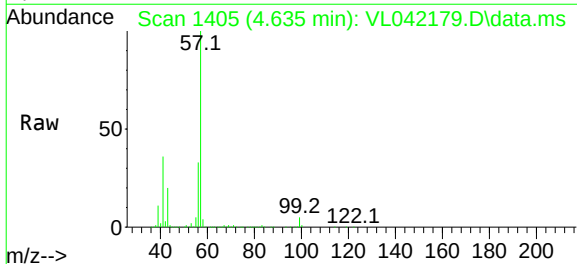
Manual Integrations  
APPROVED

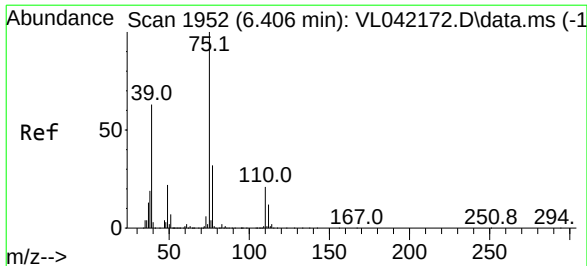
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#44  
2,2,4-Trimethylpentane  
Concen: 9.436 ppbv  
RT: 4.635 min Scan# 1405  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

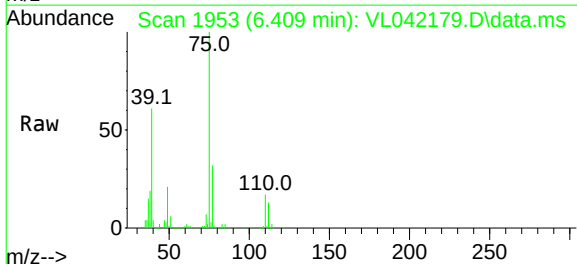
|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 787400 |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 34.3     | 26.8 40.2    |
| 56 32.5     | 25.6 38.4    |





#45  
t-1,3-Dichloropropene  
Concen: 9.467 ppbv  
RT: 6.409 min Scan# 1952  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

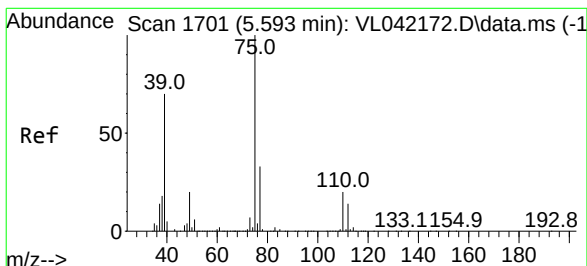
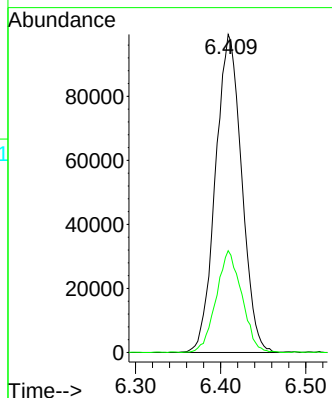
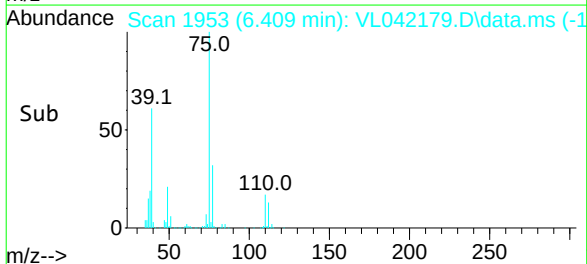
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725



Tgt Ion: 75 Resp: 212335  
Ion Ratio Lower Upper  
75 100  
77 32.0 26.0 39.0

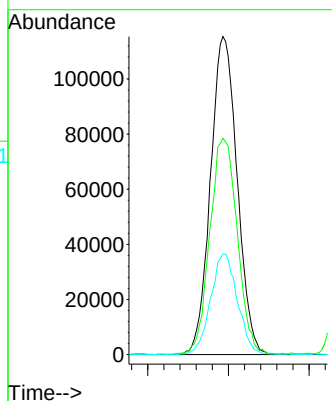
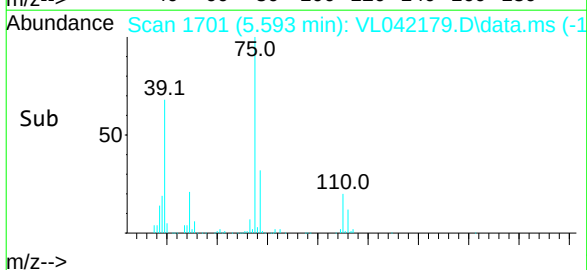
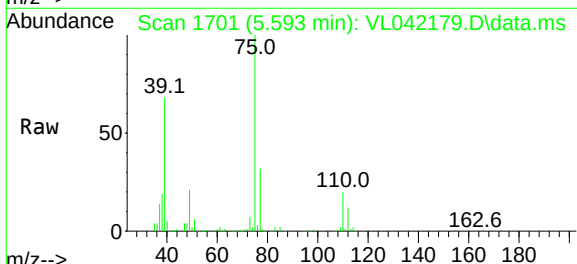
Manual Integrations  
APPROVED

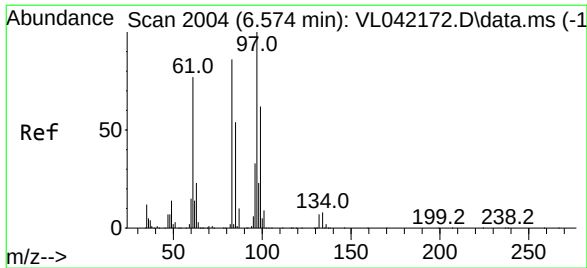
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#46  
cis-1,3-Dichloropropene  
Concen: 9.643 ppbv  
RT: 5.593 min Scan# 1701  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 75 Resp: 265101  
Ion Ratio Lower Upper  
75 100  
39 67.8 55.8 83.6  
77 31.6 26.0 39.0





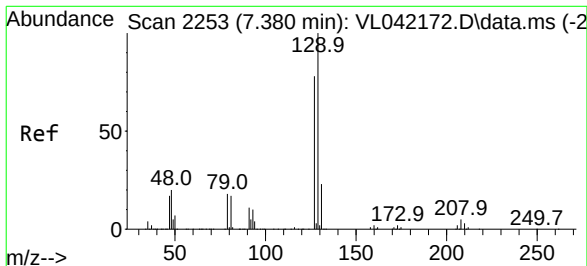
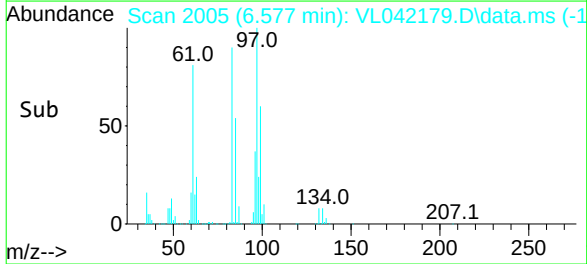
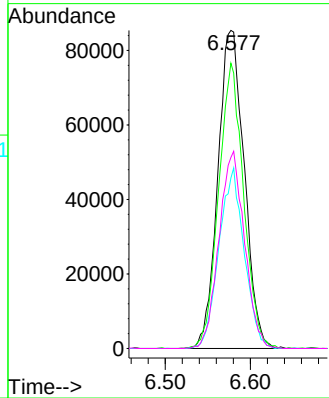
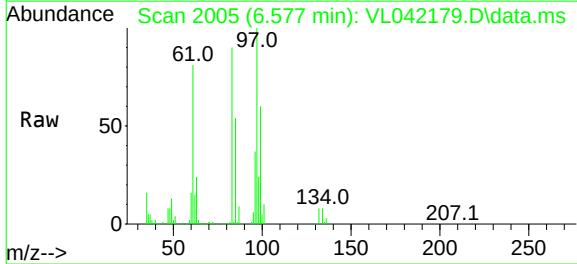
#47  
1,1,2-Trichloroethane  
Concen: 9.638 ppbv  
RT: 6.577 min Scan# 2004  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 183228 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 89.7  | 69.2  | 103.8  |
| 85       | 53.6  | 43.1  | 64.7   |
| 99       | 60.1  | 49.4  | 74.2   |

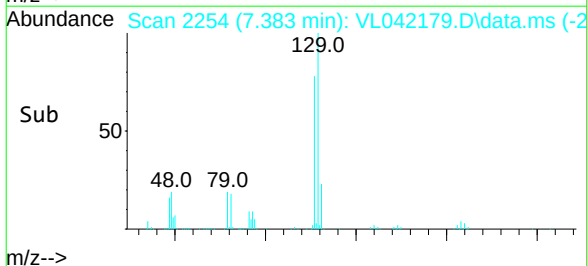
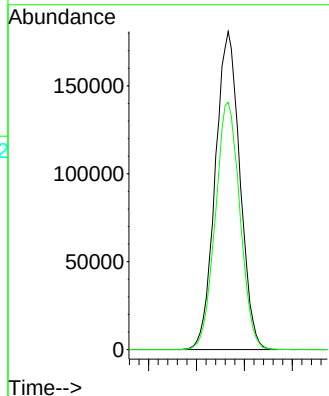
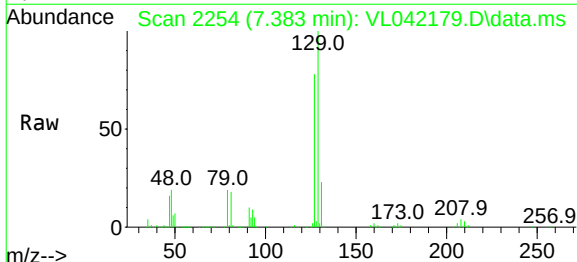
Manual Integrations  
APPROVED

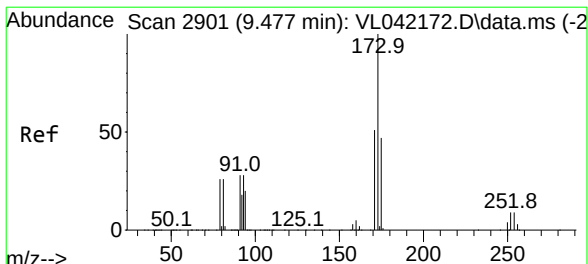
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#48  
Dibromochloromethane  
Concen: 10.018 ppbv  
RT: 7.383 min Scan# 2254  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 322766 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 77.7  | 39.1  | 117.2  |





#49  
Bromoform  
Concen: 9.858 ppbv  
RT: 9.480 min Scan# 2901  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument :

MSVOA\_L

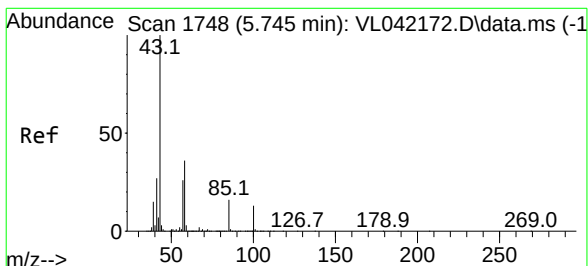
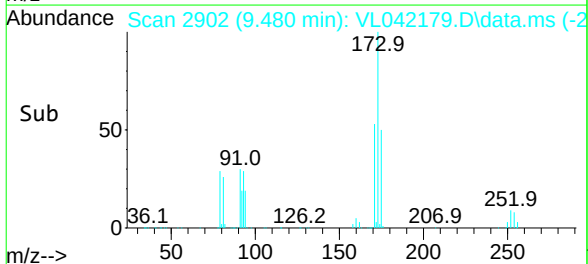
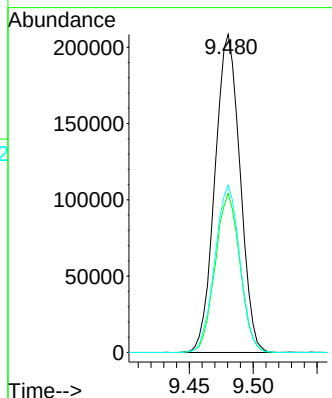
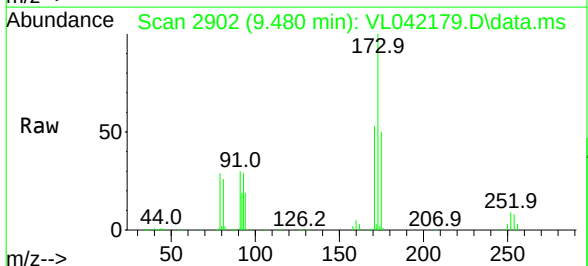
ClientSampleId :

ICVVL032725

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 173   | Resp: | 285149 |
| Ion Ratio | Lower | Upper |        |
| 173       | 100   |       |        |
| 175       | 49.2  | 38.6  | 57.8   |
| 171       | 52.4  | 41.8  | 62.6   |

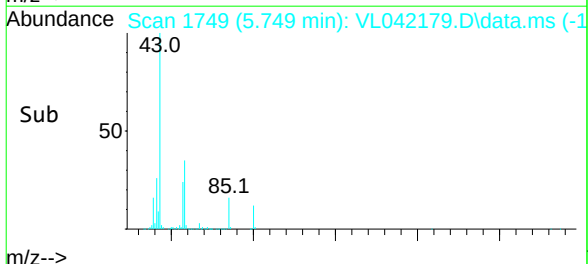
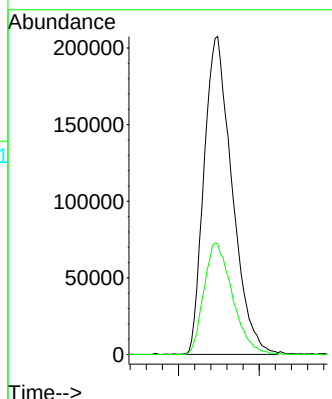
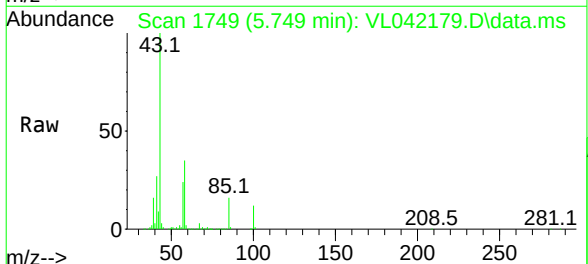
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

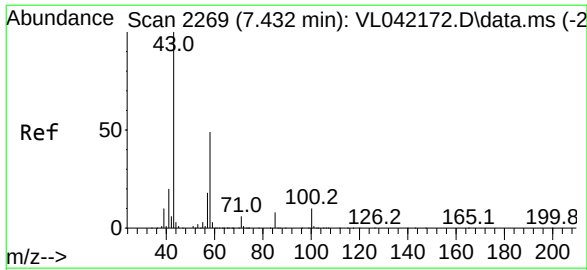


#50  
4-Methyl-2-Pentanone  
Concen: 8.749 ppbv  
RT: 5.749 min Scan# 1749  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 500791 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 58        | 35.8  | 29.0  | 43.6   |

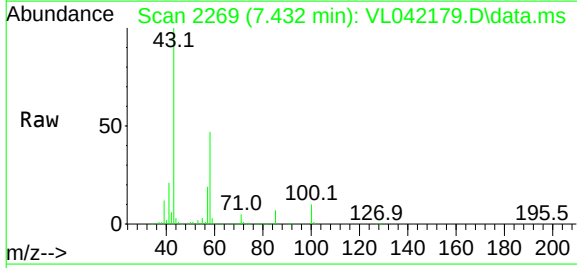






#51  
2-Hexanone  
Concen: 8.741 ppbv  
RT: 7.432 min Scan# 2269  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

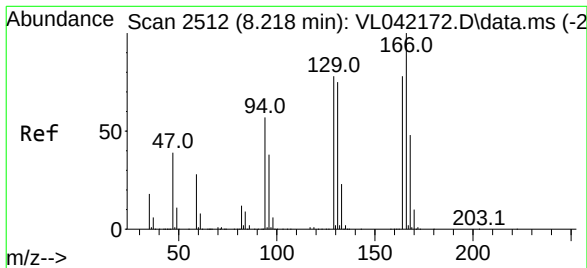
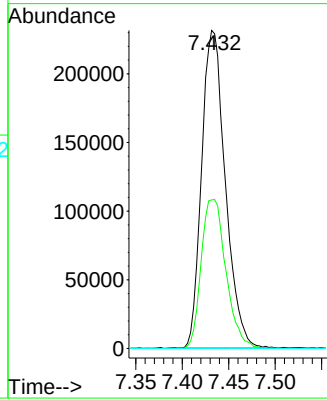
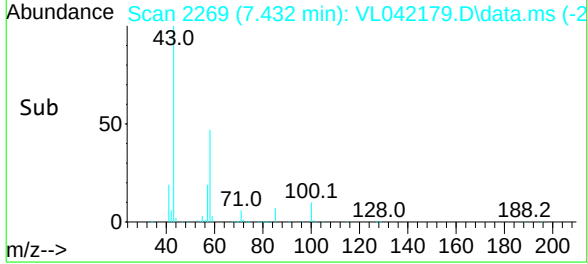
Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725



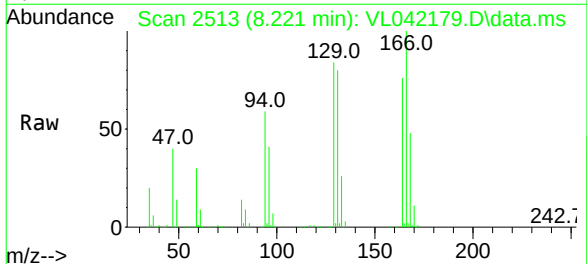
Tgt Ion: 43 Resp: 410889  
Ion Ratio Lower Upper  
43 100  
58 48.9 39.7 59.5  
98 0.0 0.1 0.1

Manual Integrations  
APPROVED

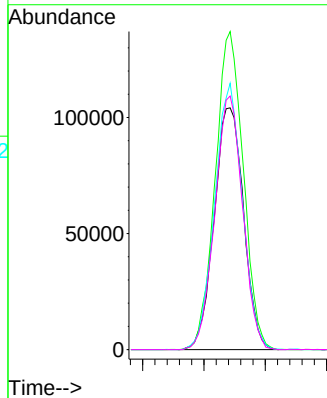
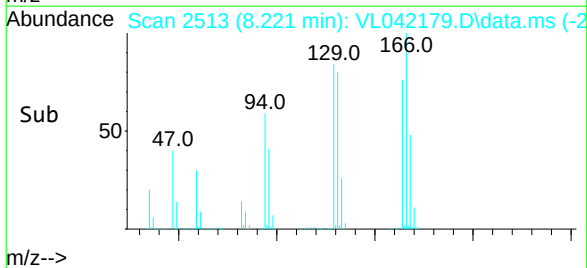
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

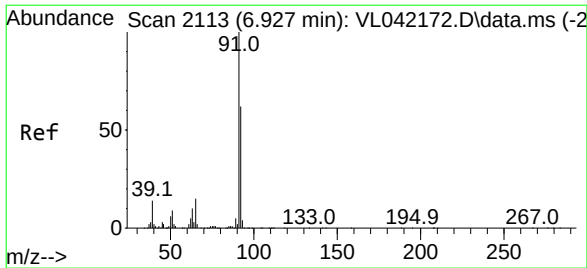


#52  
Tetrachloroethene  
Concen: 8.855 ppbv  
RT: 8.221 min Scan# 2513  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23



Tgt Ion:164 Resp: 173420  
Ion Ratio Lower Upper  
164 100  
166 131.6 102.5 153.7  
129 110.1 79.8 119.8  
131 104.9 76.6 114.8





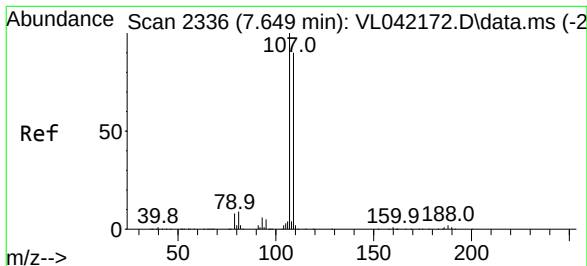
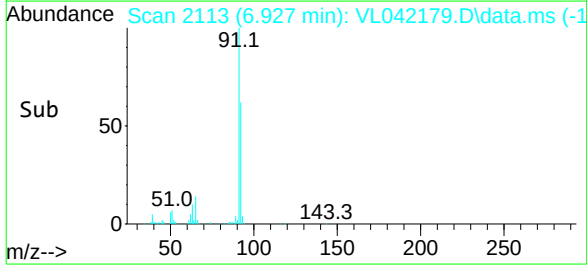
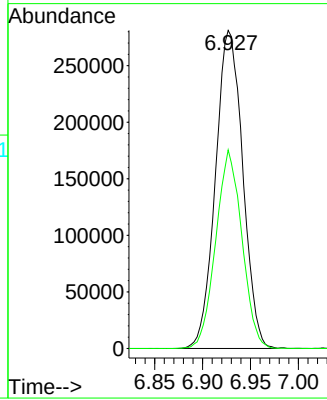
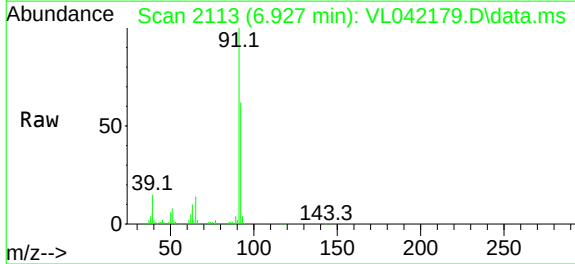
#53  
Toluene  
Concen: 9.514 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725

Tgt Ion: 91 Resp: 556897  
Ion Ratio Lower Upper  
91 100  
92 59.8 48.4 72.6

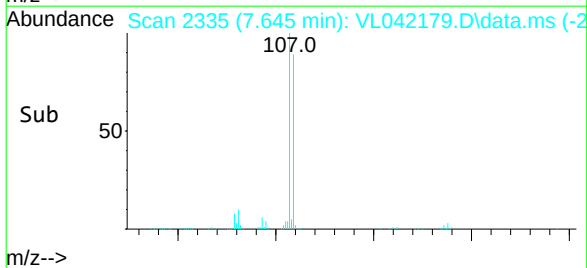
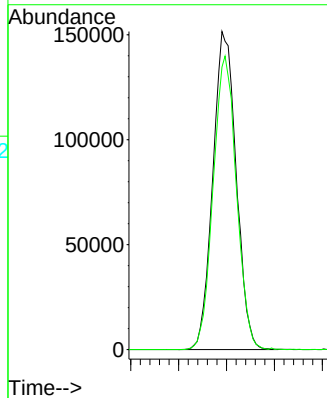
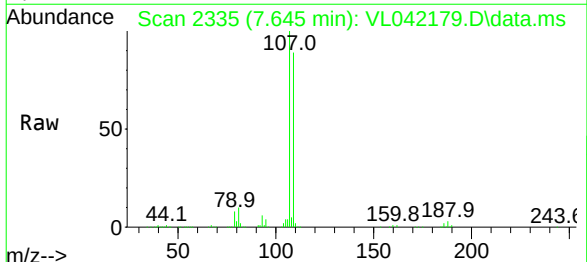
Manual Integrations  
APPROVED

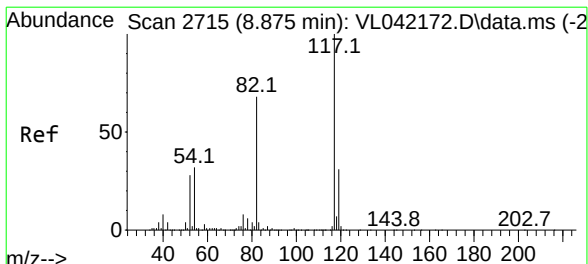
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#54  
1,2-Dibromoethane  
Concen: 9.695 ppbv  
RT: 7.645 min Scan# 2335  
Delta R.T. -0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

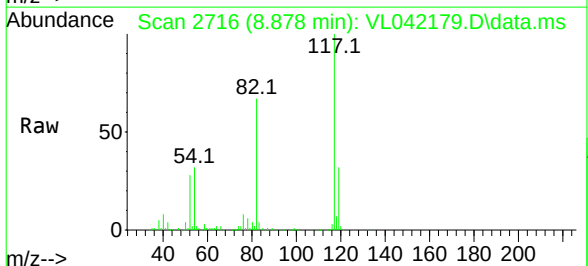
Tgt Ion:107 Resp: 256930  
Ion Ratio Lower Upper  
107 100  
109 88.9 72.2 108.4





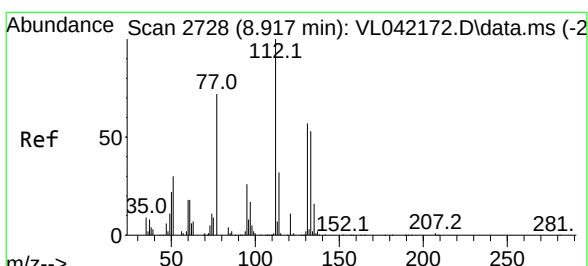
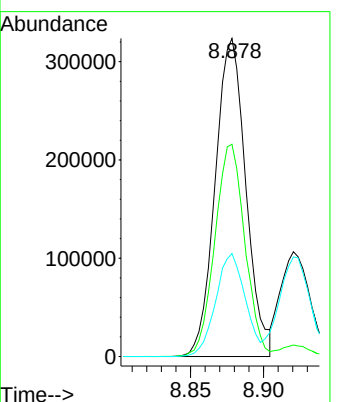
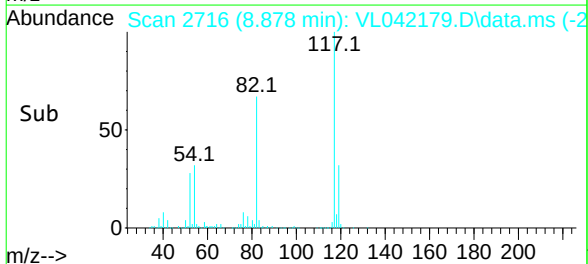
#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 8.878 min Scan# 2716  
 Delta R.T. 0.003 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_L  
 ClientSampleId : ICVVL032725

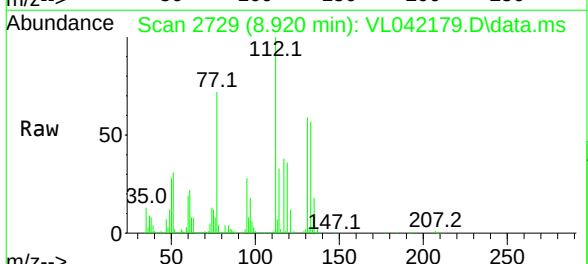


|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 473357 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 68.7  | 55.8  | 83.6   |
| 119      | 31.2  | 25.5  | 38.3   |

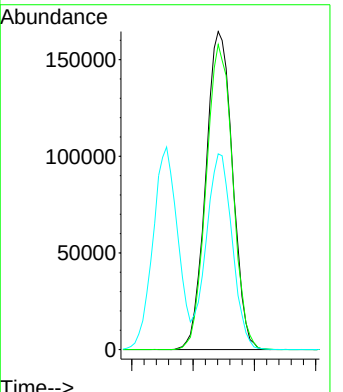
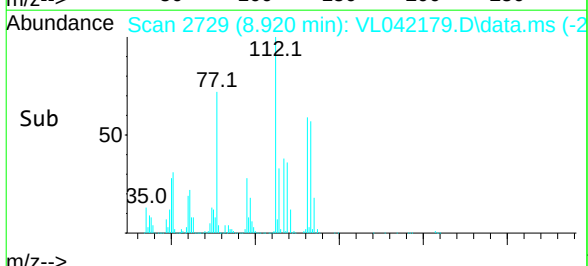
Manual Integrations  
**APPROVED**  
 Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

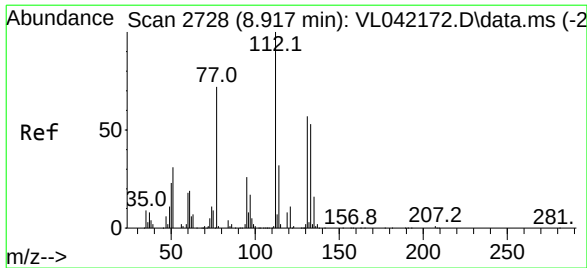


#56  
 1,1,1,2-Tetrachloroethane  
 Concen: 9.567 ppbv  
 RT: 8.920 min Scan# 2729  
 Delta R.T. 0.003 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 131   | Resp: | 249270 |
| Ion      | Ratio | Lower | Upper  |
| 131      | 100   |       |        |
| 133      | 95.0  | 76.6  | 114.8  |
| 119      | 61.3  | 49.8  | 74.6   |





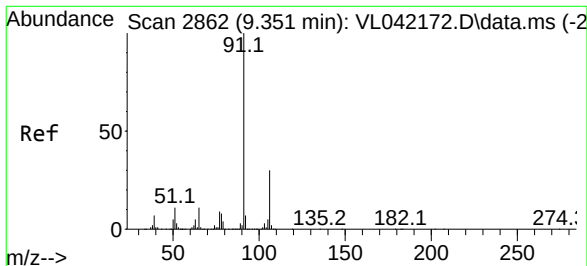
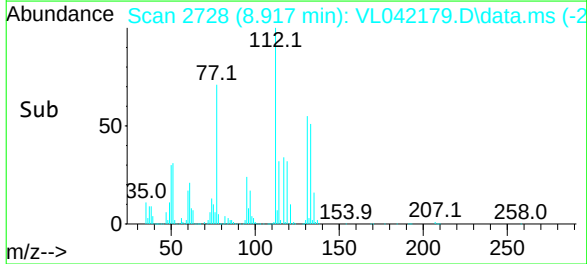
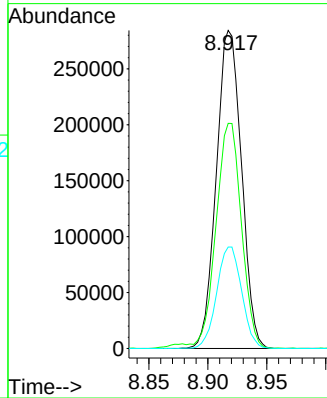
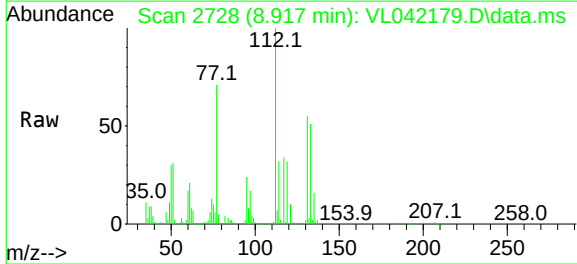
#57  
Chlorobenzene  
Concen: 9.411 ppbv  
RT: 8.917 min Scan# 2728  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725

Tgt Ion: 112 Resp: 422531  
Ion Ratio Lower Upper  
112 100  
77 70.6 58.2 87.2  
114 31.9 29.1 35.5

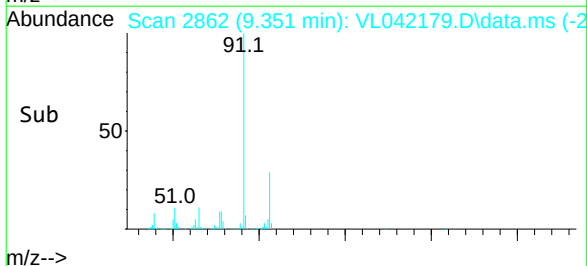
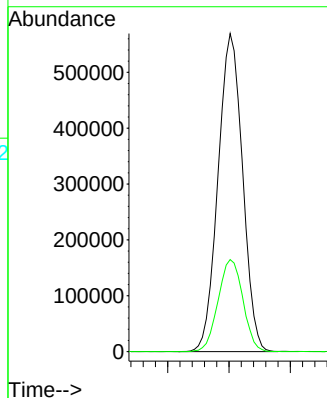
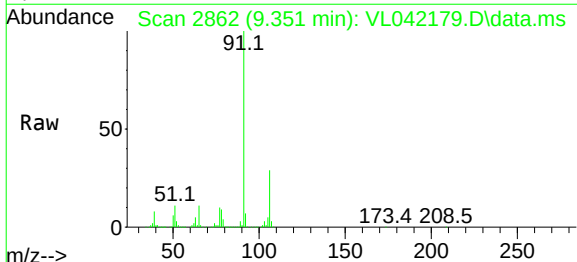
Manual Integrations  
APPROVED

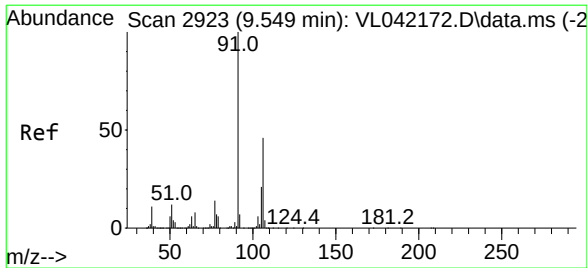
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#58  
Ethyl Benzene  
Concen: 9.412 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 791360  
Ion Ratio Lower Upper  
91 100  
106 28.9 24.2 36.2





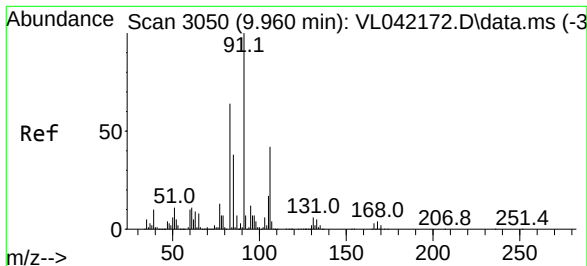
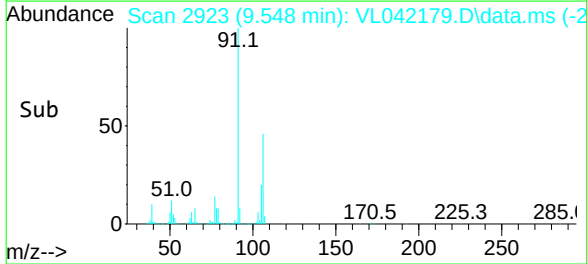
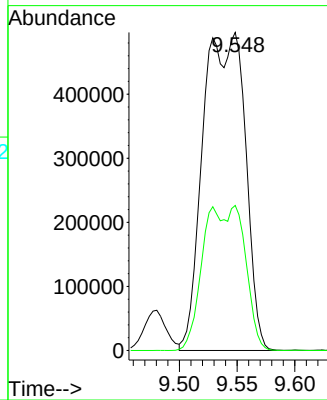
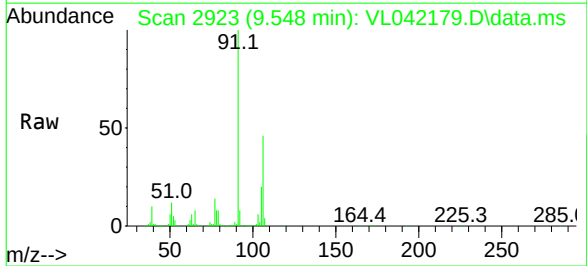
#59  
m/p-Xylene  
Concen: 18.772 ppbv m  
RT: 9.548 min Scan# 29  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

Tgt Ion: 91 Resp: 1260340  
Ion Ratio Lower Upper  
91 100  
106 45.3 36.4 54.6

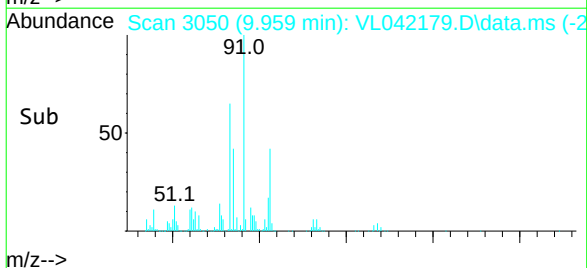
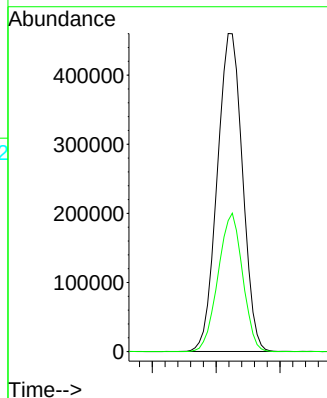
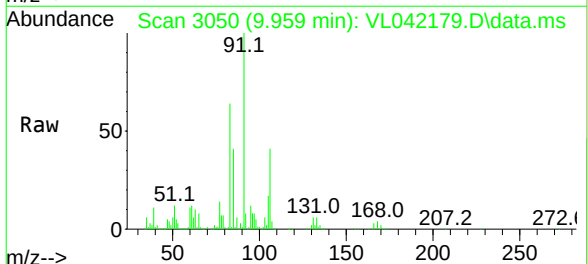
Manual Integrations  
APPROVED

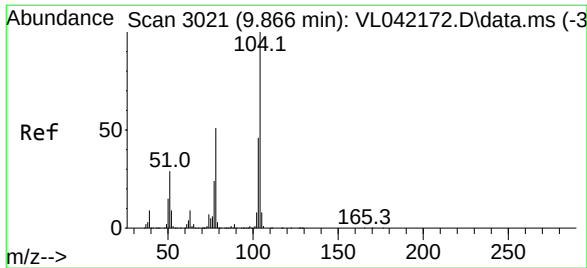
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#60  
o-Xylene  
Concen: 9.404 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 632918  
Ion Ratio Lower Upper  
91 100  
106 42.2 20.8 62.5





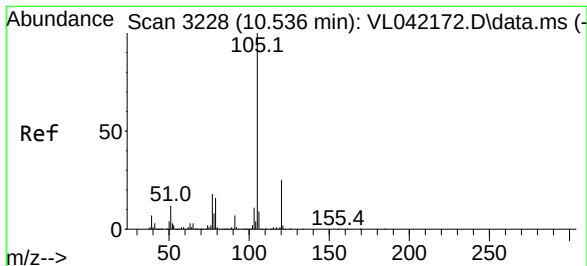
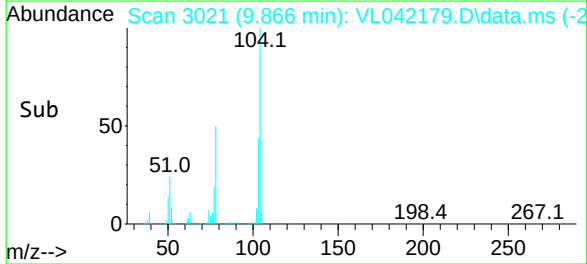
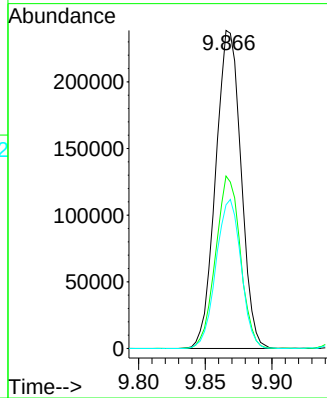
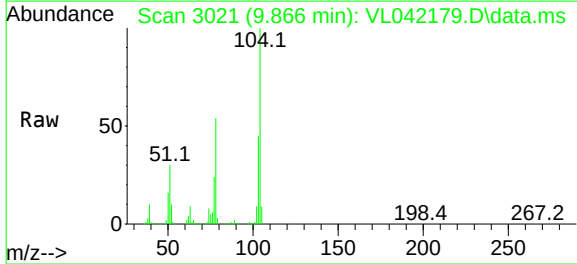
#61  
Styrene  
Concen: 9.488 ppbv  
RT: 9.866 min Scan# 3021  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725

Tgt Ion:104 Resp: 315910  
Ion Ratio Lower Upper  
104 100  
78 52.8 41.8 62.6  
103 46.3 37.0 55.4

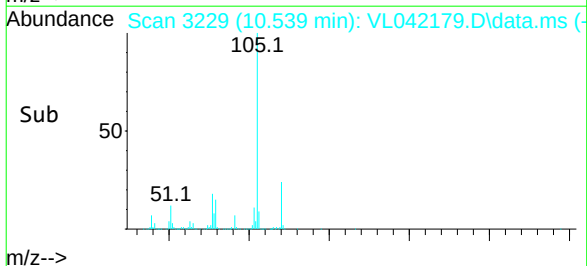
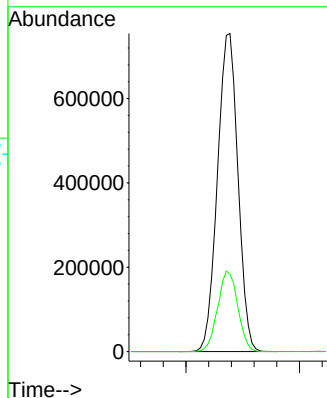
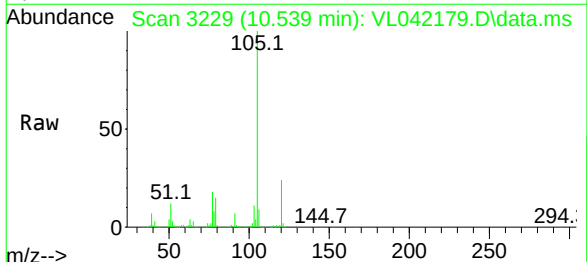
Manual Integrations  
APPROVED

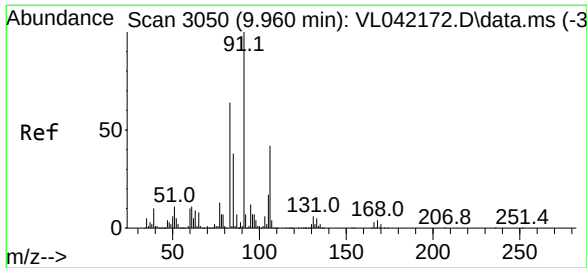
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#62  
Isopropylbenzene  
Concen: 9.388 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 944938  
Ion Ratio Lower Upper  
105 100  
120 24.9 19.9 29.9





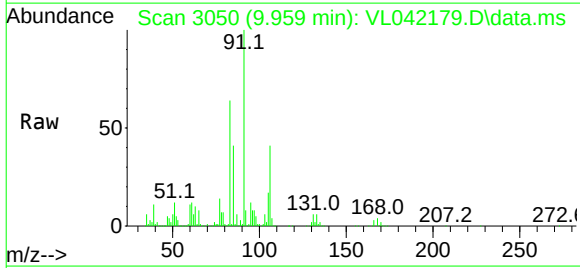
#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.357 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument :

MSVOA\_L

ClientSampleId :

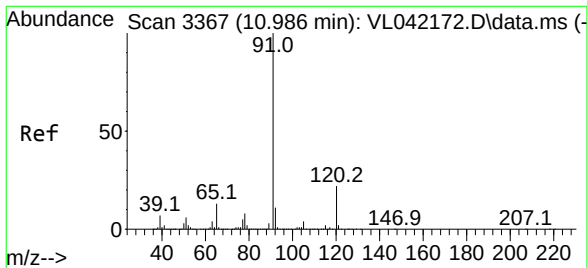
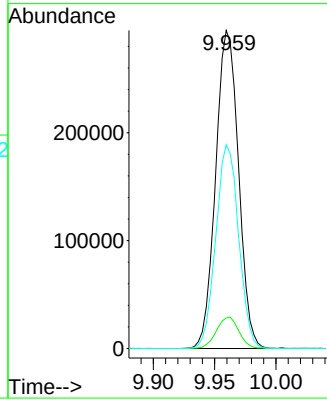
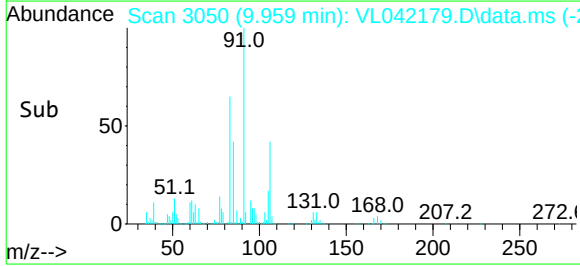
ICVVL032725



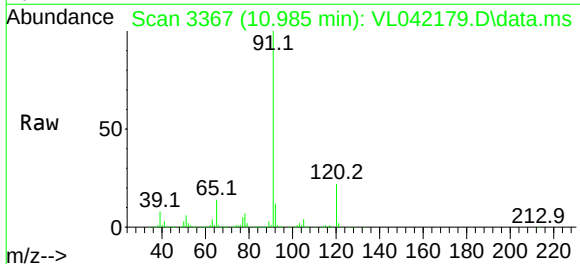
Tgt Ion: 83 Resp: 382635  
Ion Ratio Lower Upper  
83 100  
131 9.7 4.8 14.4  
85 63.9 32.5 97.5

Manual Integrations  
APPROVED

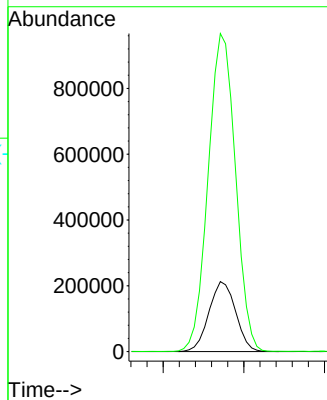
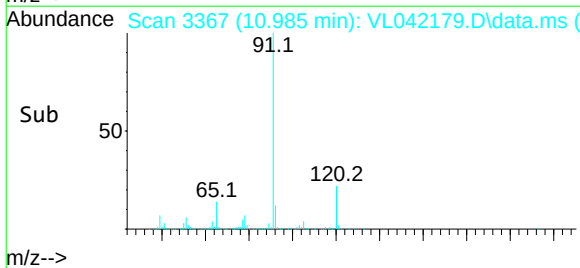
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

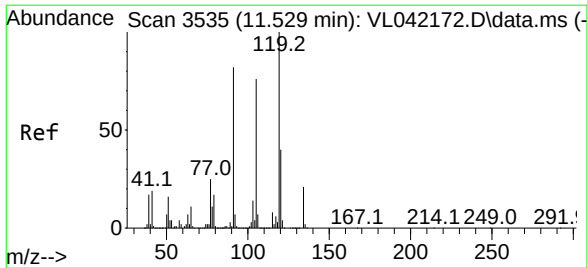


#64  
n-propylbenzene  
Concen: 9.439 ppbv  
RT: 10.985 min Scan# 3367  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23



Tgt Ion:120 Resp: 244547  
Ion Ratio Lower Upper  
120 100  
91 465.9 376.9 565.3





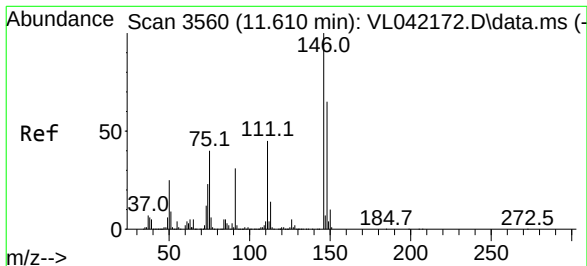
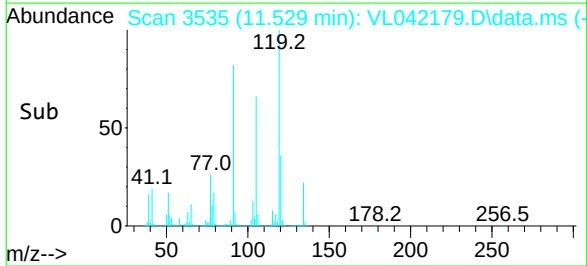
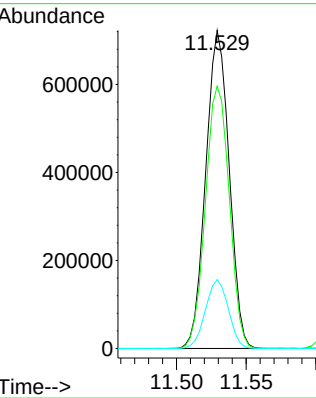
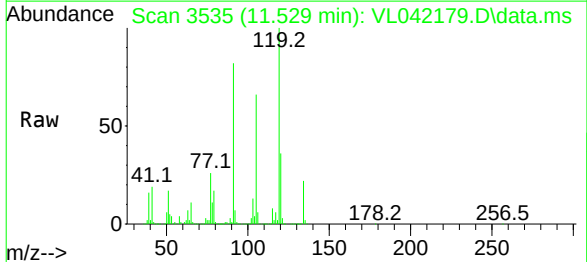
#65  
tert-Butylbenzene  
Concen: 9.065 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 119   | Resp: | 843828 |
| Ion      | Ratio | Lower | Upper  |
| 119      | 100   |       |        |
| 91       | 84.3  | 66.0  | 99.0   |
| 134      | 21.2  | 16.7  | 25.1   |

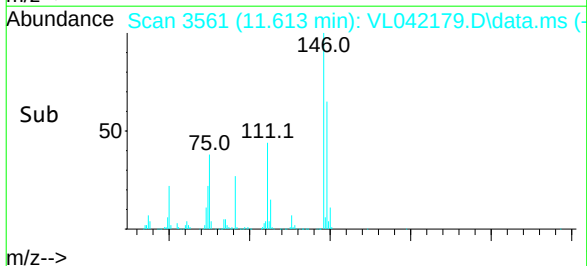
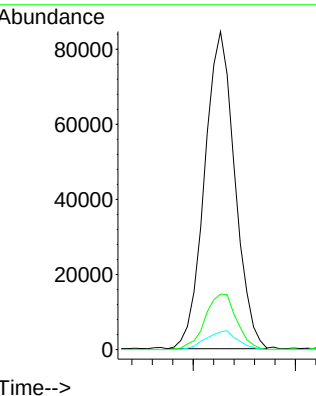
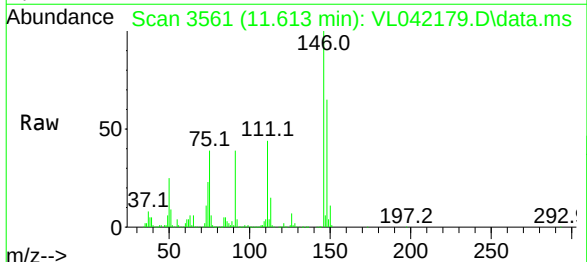
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

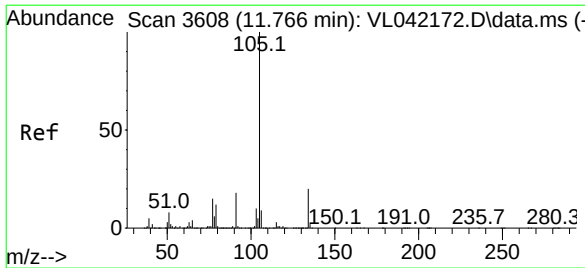


#66  
Benzyl Chloride  
Concen: 8.789 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 86804 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 126      | 18.5  | 13.8  | 20.6  |
| 128      | 6.2   | 4.5   | 6.7   |







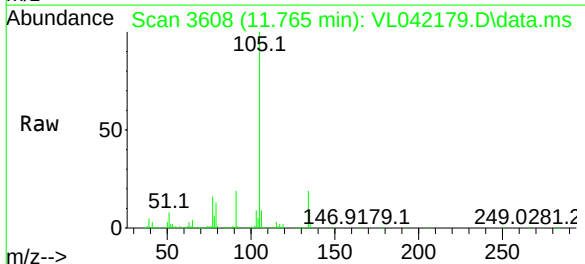
#67  
 sec-Butylbenzene  
 Concen: 9.063 ppbv  
 RT: 11.765 min Scan# 3608  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Instrument :

MSVOA\_L

ClientSampleId :

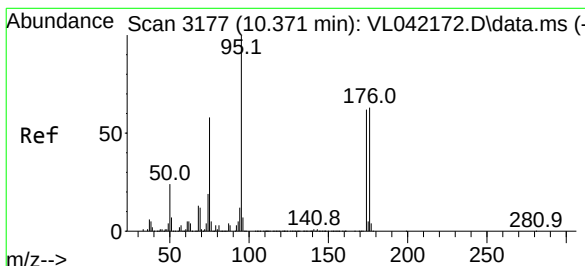
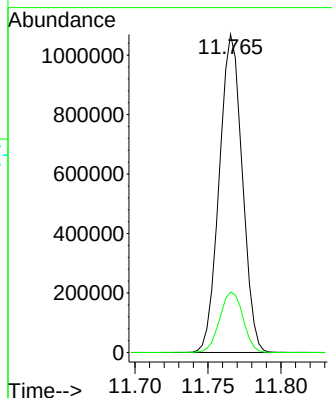
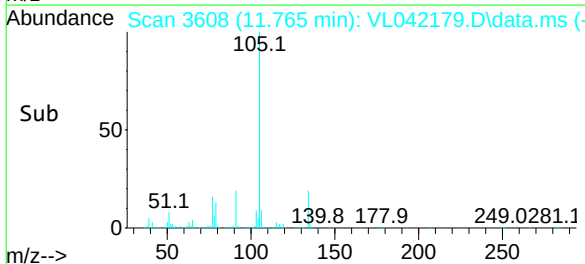
ICVVL032725



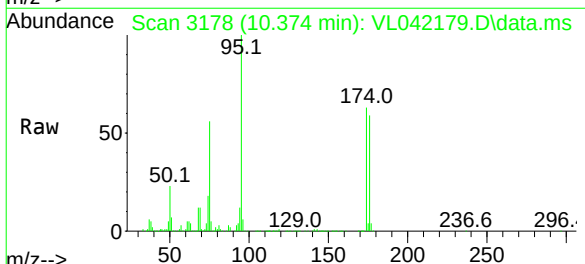
Tgt Ion: 105 Resp: 1172636  
 Ion Ratio Lower Upper  
 105 100  
 134 19.4 15.5 23.3

Manual Integrations  
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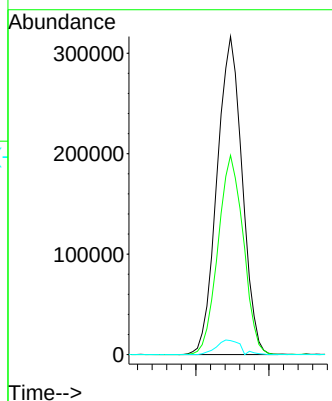
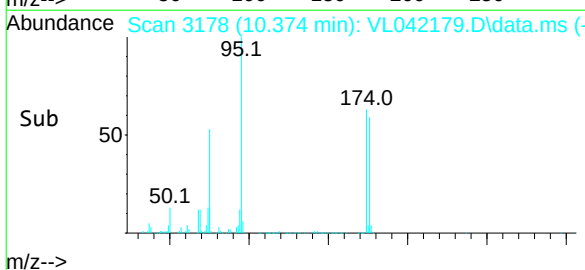
Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

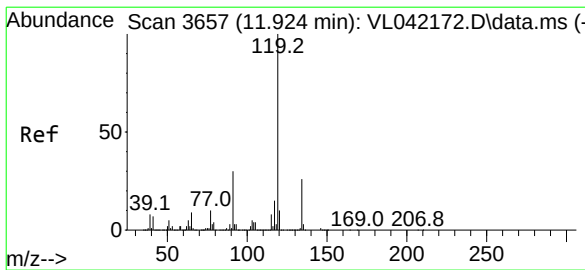


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.774 ppbv  
 RT: 10.374 min Scan# 3178  
 Delta R.T. 0.003 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23



Tgt Ion: 95 Resp: 379929  
 Ion Ratio Lower Upper  
 95 100  
 174 63.0 50.6 76.0  
 175 4.4 3.8 5.6





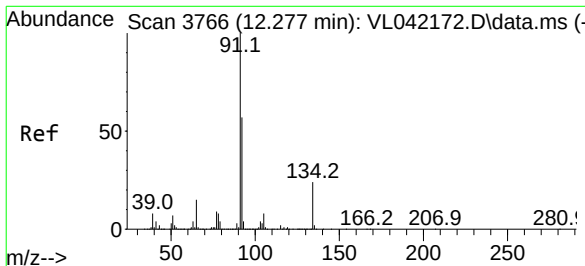
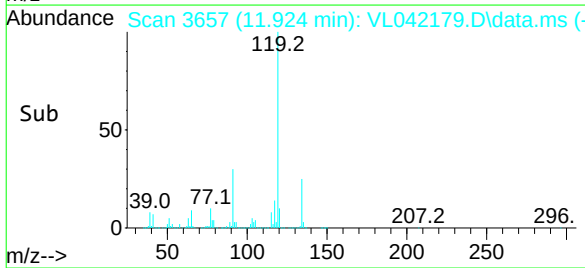
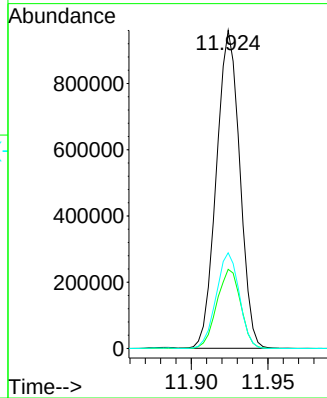
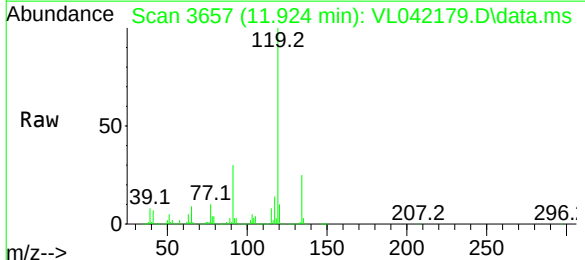
#69  
p-Isopropyltoluene  
Concen: 9.153 ppbv  
RT: 11.924 min Scan# 3657  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725

Tgt Ion: 119 Resp: 1019694  
Ion Ratio Lower Upper  
119 100  
134 25.3 20.4 30.6  
91 29.9 23.7 35.5

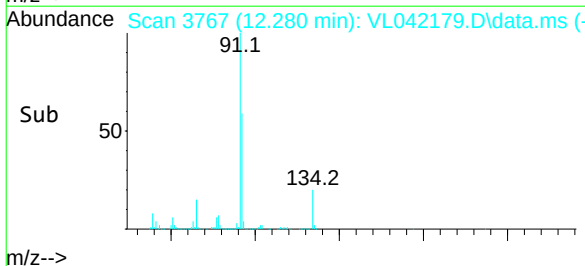
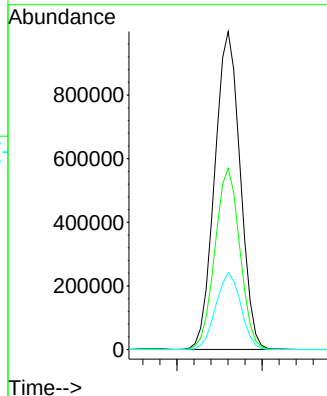
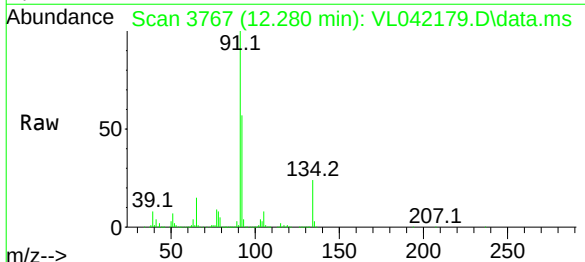
Manual Integrations  
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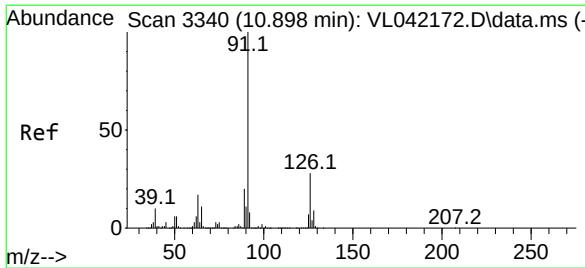
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#70  
n-Butylbenzene  
Concen: 9.115 ppbv  
RT: 12.280 min Scan# 3767  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 1038548  
Ion Ratio Lower Upper  
91 100  
92 56.0 44.9 67.3  
134 23.8 19.2 28.8





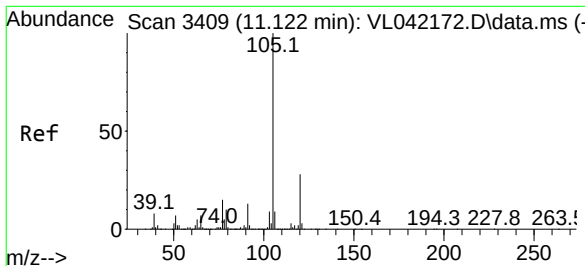
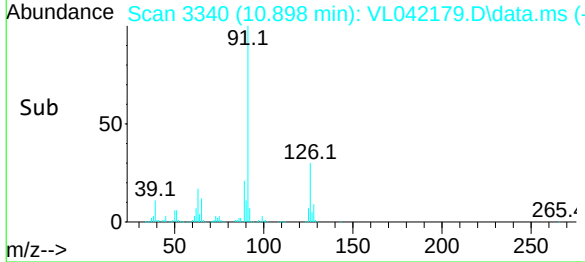
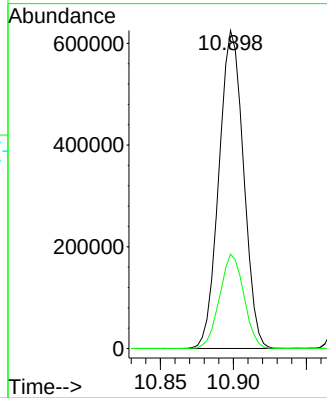
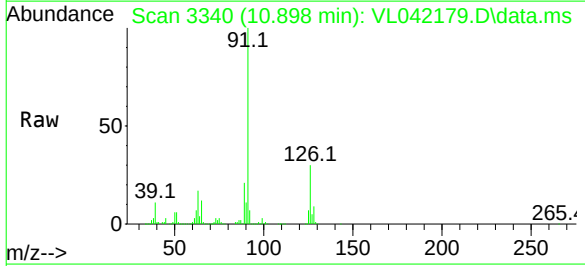
#71  
2-Chlorotoluene  
Concen: 9.382 ppbv  
RT: 10.898 min Scan# 3340  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725

Tgt Ion: 91 Resp: 732874  
Ion Ratio Lower Upper  
91 100  
126 29.2 11.6 46.4

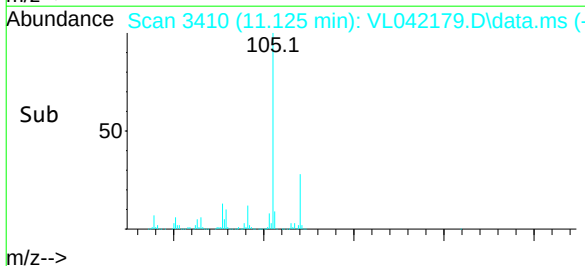
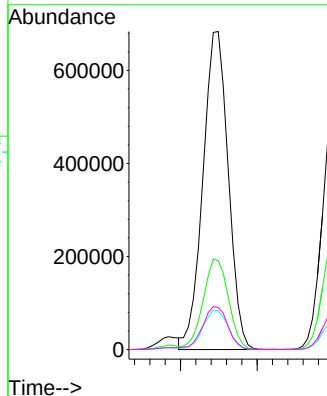
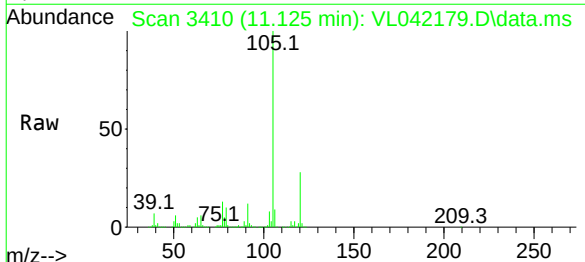
Manual Integrations  
APPROVED

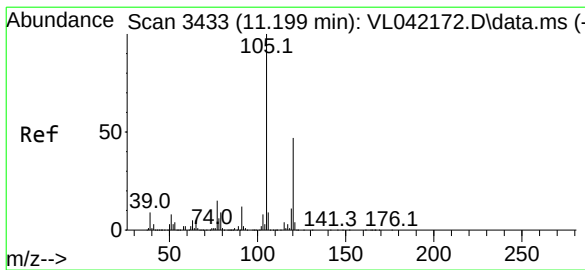
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#72  
4-Ethyltoluene  
Concen: 9.370 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 785185  
Ion Ratio Lower Upper  
105 100  
120 29.6 23.4 35.0  
91 12.9 10.3 15.5  
77 14.1 11.4 17.2





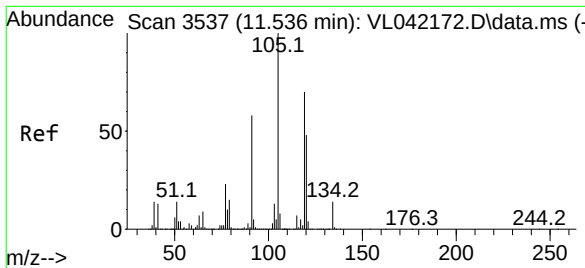
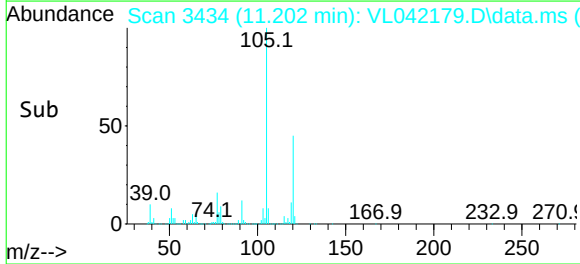
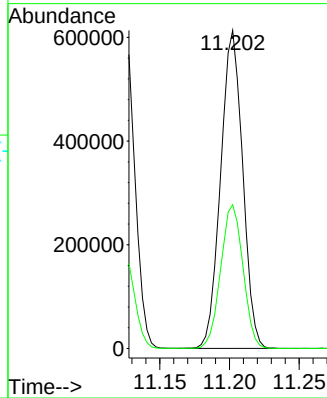
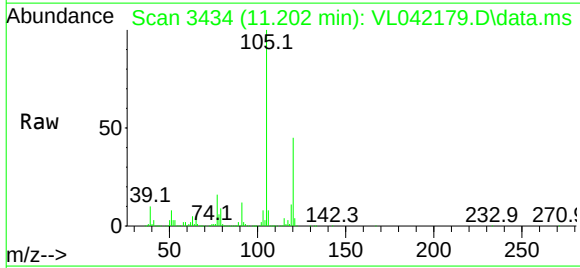
#73  
1,3,5-Trimethylbenzene  
Concen: 9.203 ppbv  
RT: 11.202 min Scan# 3433  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Instrument : MSVOA\_L  
ClientSampleId : ICVVL032725

Tgt Ion:105 Resp: 673541  
Ion Ratio Lower Upper  
105 100  
120 45.2 37.4 56.0

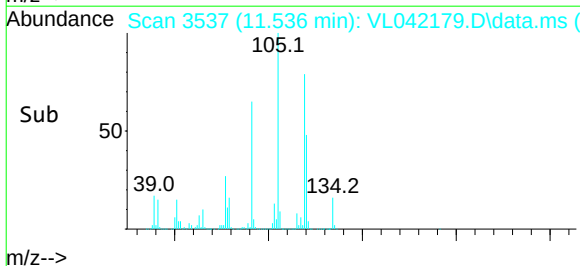
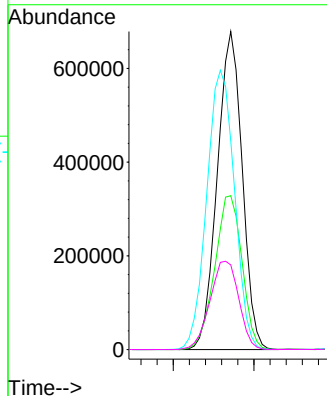
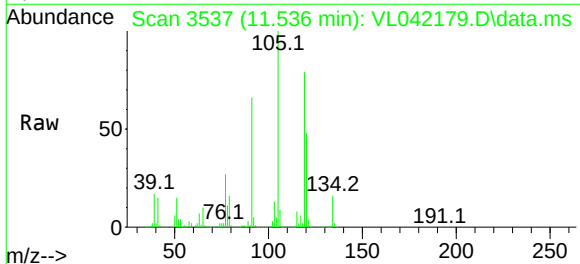
Manual Integrations  
APPROVED

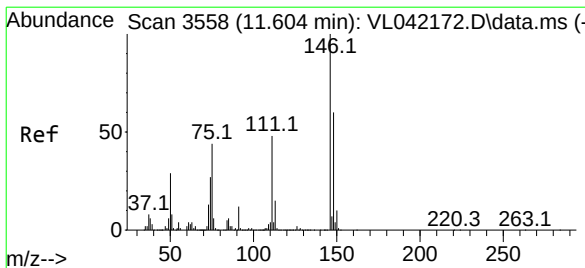
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#74  
1,2,4-Trimethylbenzene  
Concen: 8.648 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 729155  
Ion Ratio Lower Upper  
105 100  
120 48.4 38.6 58.0  
91 65.6 46.2 69.2  
77 26.6 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 9.224 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA\_L

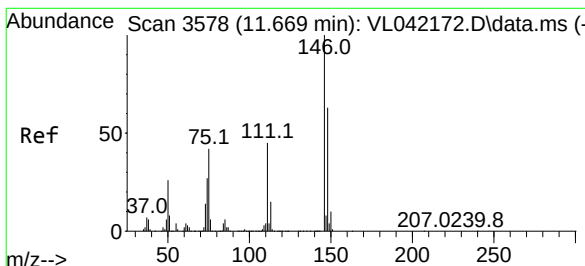
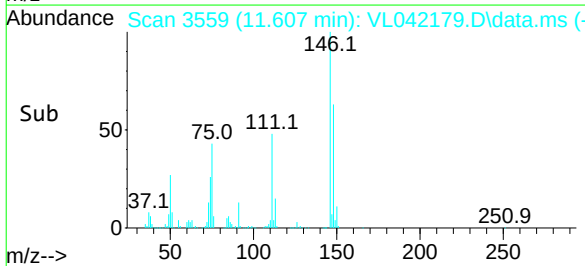
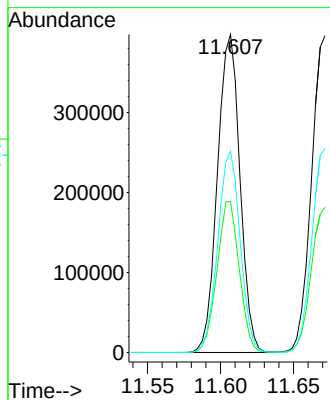
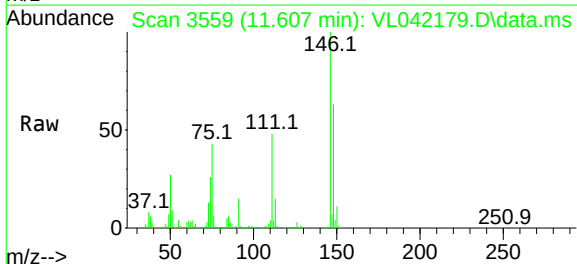
ClientSampleId :

ICVVL032725

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 426573 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 47.2  | 23.8  | 71.2   |
| 148       | 62.9  | 31.9  | 95.9   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 9.263 ppbv

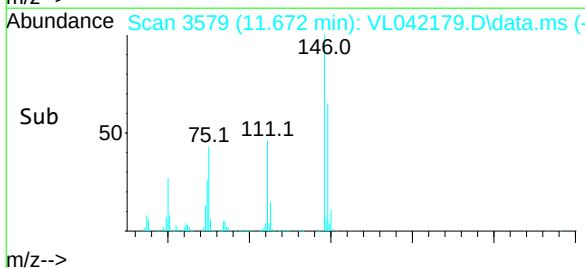
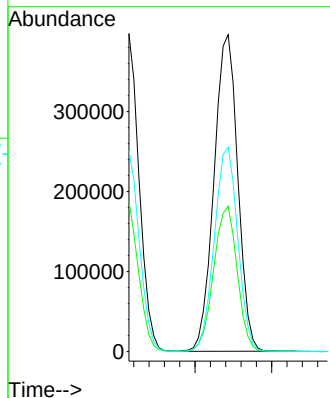
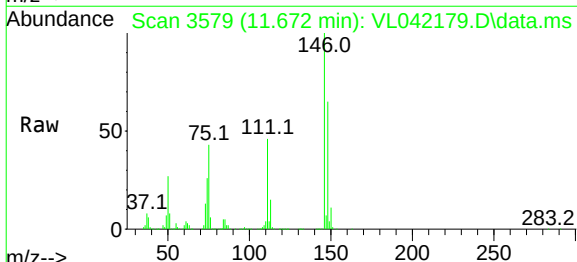
RT: 11.672 min Scan# 3579

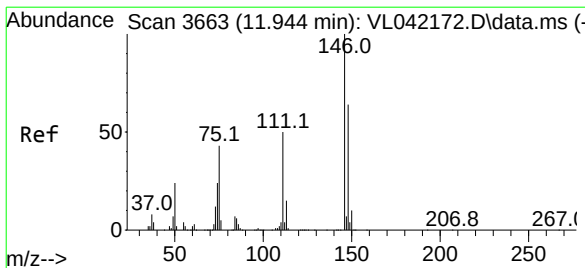
Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 426318 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 45.6  | 23.0  | 69.0   |
| 148       | 64.1  | 31.9  | 95.7   |





#77

1,2-Dichlorobenzene

Concen: 9.154 ppbv

RT: 11.947 min Scan# 3663

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA\_L

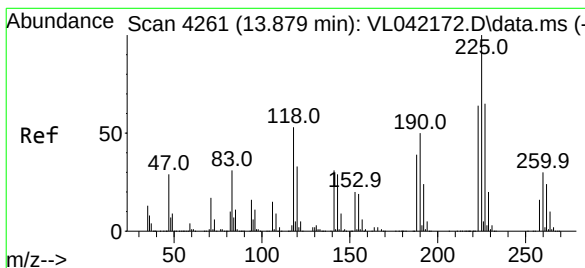
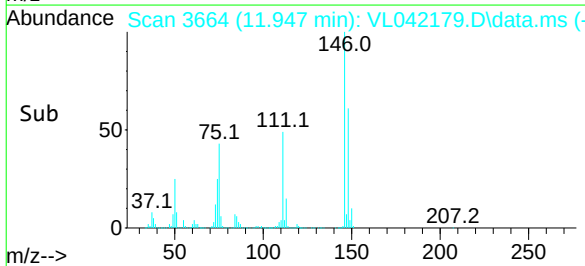
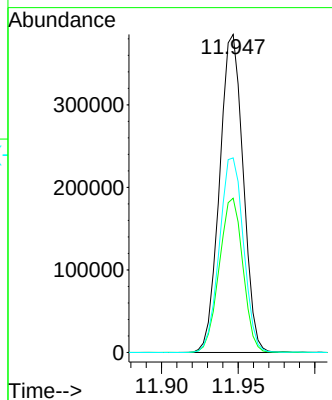
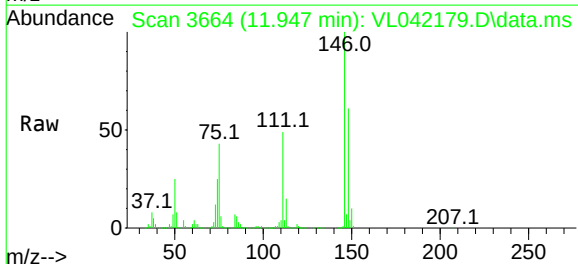
ClientSampleId :

ICVVL032725

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 412180 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 48.8  | 24.8  | 74.3   |
| 148       | 62.8  | 31.6  | 94.8   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 7.776 ppbv

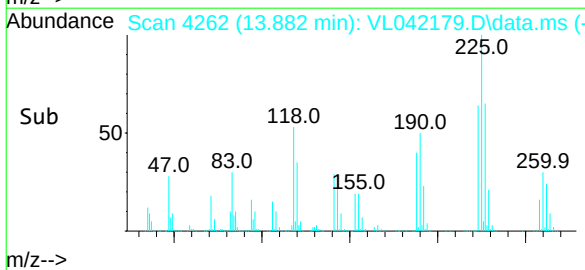
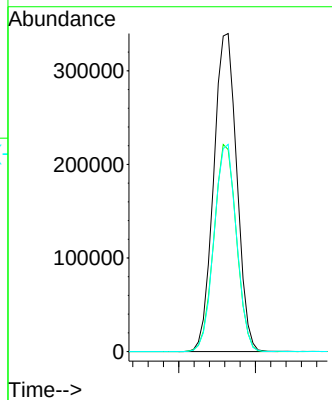
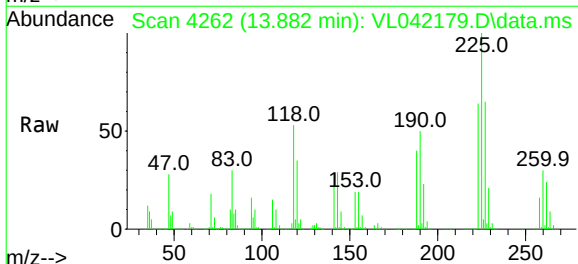
RT: 13.882 min Scan# 4262

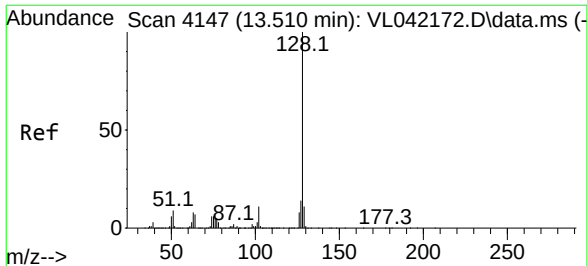
Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 356386 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 63.4  | 50.6  | 76.0   |
| 227       | 63.4  | 51.2  | 76.8   |





#79

Naphthalene

Concen: 8.385 ppbv

RT: 13.513 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA\_L

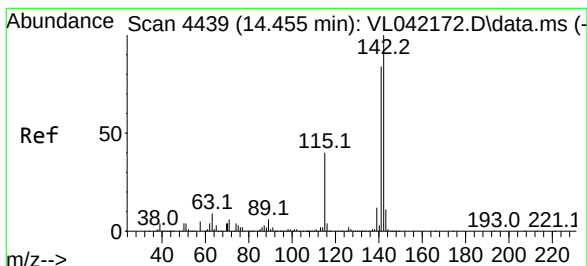
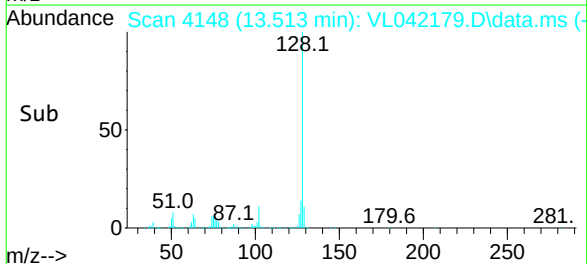
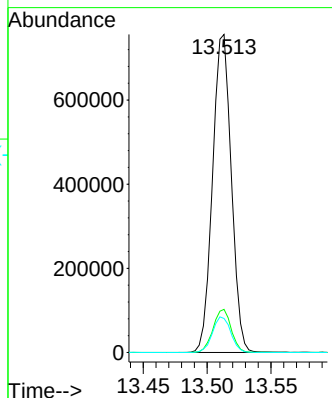
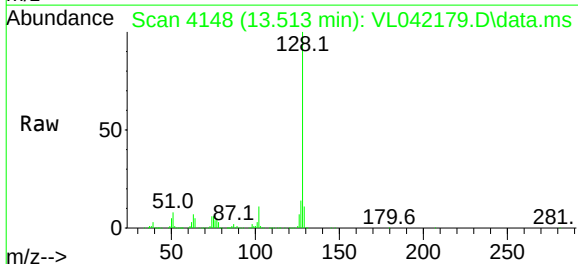
ClientSampleId :

ICVVL032725

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 773311 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 13.6  | 10.8  | 16.2   |
| 129       | 10.7  | 9.0   | 13.4   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene, 2-methyl-

Concen: 7.151 ppbv

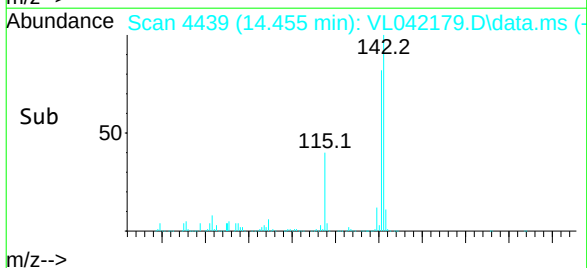
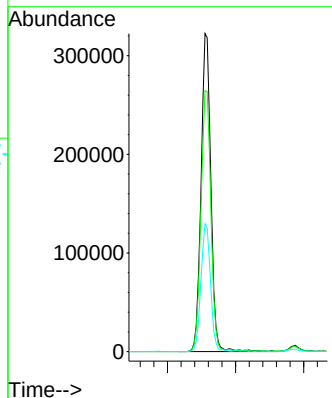
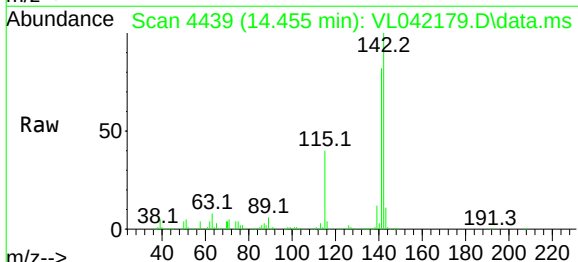
RT: 14.455 min Scan# 4439

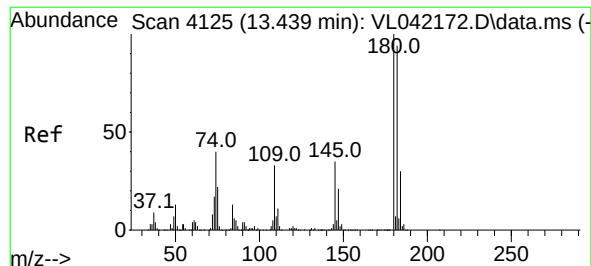
Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

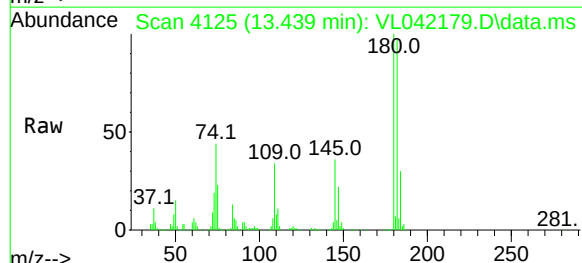
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 323443 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 83.5  | 66.3  | 99.5   |
| 115       | 39.8  | 31.6  | 47.4   |





#81  
1,2,4-Trichlorobenzene  
Concen: 8.553 ppbv  
RT: 13.439 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

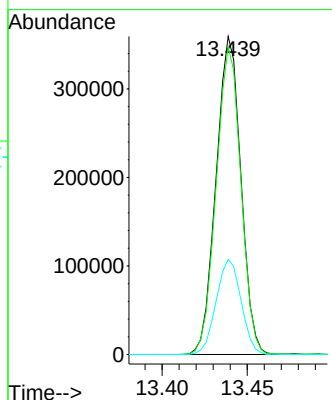
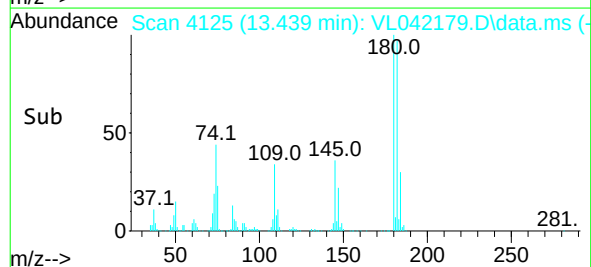
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725



Tgt Ion:180 Resp: 363863  
Ion Ratio Lower Upper  
180 100  
182 96.2 75.1 112.7  
184 30.1 24.4 36.6

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025





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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1669 SAS No.: Q1669 SDG No.: Q1669

Instrument ID: MSVOA\_L Calibration Date/Time: 03/31/2025 08:51

Lab File ID: VL042201.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

| COMPOUND                       | RRF   | RRF010 | MIN<br>RRF | %D     | MAX%D |
|--------------------------------|-------|--------|------------|--------|-------|
| Dichlorodifluoromethane        | 1.476 | 1.509  |            | 2.24   | 30    |
| Chloromethane                  | 0.603 | 0.570  |            | -5.47  | 30    |
| Vinyl Chloride                 | 0.639 | 0.550  |            | -13.93 | 30    |
| Bromomethane                   | 0.273 | 0.252  |            | -7.69  | 30    |
| Chloroethane                   | 0.242 | 0.221  |            | -8.68  | 30    |
| Tetrahydrofuran                | 0.418 | 0.371  |            | -11.24 | 30    |
| Trichlorofluoromethane         | 1.437 | 1.435  |            | -0.14  | 30    |
| 1,1,2-Trichlorotrifluoroethane | 1.181 | 1.132  |            | -4.15  | 30    |
| Dichlorotetrafluoroethane      | 1.257 | 1.261  |            | 0.32   | 30    |
| tert-Butyl alcohol             | 1.742 | 1.563  |            | -10.28 | 30    |
| Heptane                        | 1.839 | 1.622  |            | -11.8  | 30    |
| 1,1-Dichloroethene             | 0.552 | 0.513  |            | -7.07  | 30    |
| Acetone                        | 1.399 | 1.200  |            | -14.22 | 30    |
| Carbon Disulfide               | 1.503 | 1.425  |            | -5.19  | 30    |
| Methyl tert-Butyl Ether        | 0.873 | 1.103  |            | 26.35  | 30    |
| Methylene Chloride             | 0.521 | 0.420  |            | -19.39 | 30    |
| trans-1,2-Dichloroethene       | 0.638 | 0.569  |            | -10.81 | 30    |
| 1,1-Dichloroethane             | 1.183 | 1.151  |            | -2.7   | 30    |
| Cyclohexane                    | 1.217 | 1.115  |            | -8.38  | 30    |
| 2-Butanone                     | 0.725 | 0.655  |            | -9.65  | 30    |
| Carbon Tetrachloride           | 0.781 | 0.807  |            | 3.33   | 30    |
| cis-1,2-Dichloroethene         | 1.423 | 1.359  |            | -4.5   | 30    |
| Chloroform                     | 2.052 | 2.093  |            | 2      | 30    |
| 1,1,1-Trichloroethane          | 2.349 | 2.228  |            | -5.15  | 30    |
| 2,2,4-Trimethylpentane         | 1.675 | 1.532  |            | -8.54  | 30    |
| Benzene                        | 0.991 | 0.927  |            | -6.46  | 30    |
| 1,2-Dichloroethane             | 0.568 | 0.593  |            | 4.4    | 30    |
| Trichloroethene                | 0.414 | 0.391  |            | -5.56  | 30    |
| 1,2-Dichloropropane            | 0.361 | 0.333  |            | -7.76  | 30    |
| Bromodichloromethane           | 0.782 | 0.811  |            | 3.71   | 30    |
| 4-Methyl-2-Pentanone           | 1.149 | 0.949  |            | -17.41 | 30    |
| Toluene                        | 1.175 | 1.070  |            | -8.94  | 30    |
| t-1,3-Dichloropropene          | 0.450 | 0.413  |            | -8.22  | 30    |
| cis-1,3-Dichloropropene        | 0.552 | 0.505  |            | -8.51  | 30    |
| 1,1,2-Trichloroethane          | 0.382 | 0.366  |            | -4.19  | 30    |
| Dibromochloromethane           | 0.647 | 0.659  |            | 1.86   | 30    |
| 1,2-Dibromoethane              | 0.532 | 0.520  |            | -2.26  | 30    |
| Tetrachloroethene              | 0.393 | 0.337  |            | -14.25 | 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: WOOD06

Lab Code: CHEM Case No.: Q1669 SAS No.: Q1669 SDG No.: Q1669

Instrument ID: MSVOA\_L Calibration Date/Time: 03/31/2025 08:51

Lab File ID: VL042201.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

| COMPOUND                  | RRF     | RRF010  | MIN<br>RRF | %D     | MAX%D |
|---------------------------|---------|---------|------------|--------|-------|
| Chlorobenzene             | 0.949   | 0.917   |            | -3.37  | 30    |
| Ethyl Benzene             | 1.776   | 1.678   |            | -5.52  | 30    |
| m/p-Xylene                | 1.418   | 1.371   |            | -3.32  | 30    |
| o-Xylene                  | 1.422   | 1.355   |            | -4.71  | 30    |
| Styrene                   | 0.703   | 0.663   |            | -5.69  | 30    |
| Bromoform                 | 0.581   | 0.568   |            | -2.24  | 30    |
| 1,1,2,2-Tetrachloroethane | 0.864   | 0.822   |            | -4.86  | 30    |
| 2-Chlorotoluene           | 1.650   | 1.593   |            | -3.45  | 30    |
| 1,3,5-Trimethylbenzene    | 1.546   | 1.501   |            | -2.91  | 30    |
| 1,2,4-Trimethylbenzene    | 1.781   | 1.639   |            | -7.97  | 30    |
| 1,3-Dichlorobenzene       | 0.977   | 0.967   |            | -1.02  | 30    |
| 1,4-Dichlorobenzene       | 0.972   | 0.974   |            | 0.21   | 30    |
| 1,2-Dichlorobenzene       | 0.951   | 0.940   |            | -1.16  | 30    |
| 1,2,4-Trichlorobenzene    | 0.899   | 0.879   |            | -2.22  | 30    |
| Hexachloro-1,3-Butadiene  | 0.968   | 0.813   |            | -16.01 | 30    |
| 1,3-Butadiene             | 0.683   | 0.595   |            | -12.88 | 30    |
| Naphthalene               | 1.948   | 1.962   |            | 0.72   | 30    |
| 4-Ethyltoluene            | 1.770   | 1.731   |            | -2.2   | 30    |
| 1-Bromo-4-Fluorobenzene   | 0.821   | 0.837   |            | 1.95   | 30    |
| Hexane                    | 1.402   | 1.295   |            | -7.63  | 30    |
| Allyl Chloride            | 0.986   | 0.895   |            | -9.23  | 30    |
| 1,4-Dioxane               | 191.626 | 167.508 |            | -12.59 | 30    |
| Methyl Methacrylate       | 0.420   | 0.370   |            | -11.9  | 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\VL033125\  
 Data File : VL042201.D  
 Acq On : 31 Mar 2025 08:51  
 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 04/01/2025  
 Supervised By : Mahesh Dadoda 04/01/2025

Quant Time: Apr 01 01:49:21 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   | 2.800 | 49   | 161478   | 10.000 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 3.982 | 114  | 460403   | 10.000 | ppbv  | 0.03     |
| 55) Chlorobenzene-d5    | 8.904 | 117  | 424671   | 10.000 | ppbv  | 0.03     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 355372 10.190 ppbv 0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

#### Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.506 | 85  | 243672 | 10.220 | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 1.483 | 51  | 233931 | 9.604  | ppbv   | 96     |
| 4) Chloromethane              | 1.538 | 50  | 91967  | 9.439  | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.586 | 62  | 88747  | 8.595  | ppbv   | 96     |
| 6) Bromomethane               | 1.674 | 94  | 40765  | 9.232  | ppbv   | 98     |
| 7) Chloroethane               | 1.713 | 64  | 35638  | 9.112  | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 1.561 | 85  | 203570 | 10.026 | ppbv   | 96     |
| 9) Propene                    | 1.489 | 41  | 95128  | 8.521  | ppbv   | 97     |
| 10) Heptane                   | 5.011 | 43  | 261936 | 8.821  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.887 | 101 | 231721 | 9.988  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.150 | 101 | 182824 | 9.588  | ppbv   | 98     |
| 13) Ethanol                   | 1.729 | 45  | 4473   | 4.238  | ppbv   | 87     |
| 14) Bromoethene               | 1.790 | 108 | 66903  | 9.159  | ppbv   | 99     |
| 15) Acetone                   | 1.842 | 43  | 193773 | 8.580  | ppbv   | 96     |
| 16) 1,3-Butadiene             | 1.616 | 39  | 96046  | 8.709  | ppbv   | 97     |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 252420 | 8.974  | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.043 | 96  | 82868  | 9.296  | ppbv   | 100    |
| 19) Isopropyl Alcohol         | 1.894 | 45  | 115180 | 9.039  | ppbv   | 98     |
| 20) Methylene Chloride        | 2.072 | 84  | 67877  | 8.070  | ppbv   | 94     |
| 21) Allyl Chloride            | 2.108 | 41  | 144599 | 9.079  | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.353 | 96  | 91942  | 8.924  | ppbv   | 96     |
| 23) Vinyl Acetate             | 2.473 | 43  | 82938  | 8.485  | ppbv # | 96     |
| 24) 1,1-Dichloroethane        | 2.421 | 63  | 185830 | 9.730  | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.852 | 43  | 536366 | 9.151  | ppbv   | 99     |
| 26) Hexane                    | 2.842 | 57  | 209103 | 9.236  | ppbv   | 98     |
| 27) Carbon Disulfide          | 2.159 | 76  | 230171 | 9.481  | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether   | 2.454 | 73  | 178093 | 12.635 | ppbv   | 92     |
| 29) Chloroform                | 2.865 | 83  | 337970 | 10.200 | ppbv   | 99     |
| 30) Cyclohexane               | 3.878 | 84  | 180110 | 9.162  | ppbv   | 95     |
| 31) cis-1,2-Dichloroethene    | 2.735 | 61  | 219389 | 9.545  | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 3.386 | 97  | 359718 | 9.483  | ppbv   | 98     |
| 34) 2-Butanone                | 2.570 | 43  | 301334 | 9.026  | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.784 | 117 | 371691 | 10.335 | ppbv   | 98     |
| 36) Benzene                   | 3.677 | 78  | 426758 | 9.350  | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.234 | 62  | 273137 | 10.453 | ppbv   | 99     |
| 38) Trichloroethene           | 4.574 | 130 | 179999 | 9.452  | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.338 | 63  | 153124 | 9.212  | ppbv   | 94     |
| 40) 1,4-Dioxane               | 4.613 | 88  | 77121m | 8.741  | ppbv   |        |
| 41) Tetrahydrofuran           | 3.069 | 42  | 170829 | 8.886  | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.516 | 83  | 373399 | 10.365 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.907 | 69  | 170312 | 8.814  | ppbv   | 98     |
| 44) 2,2,4-Trimethylpentane    | 4.664 | 57  | 705253 | 9.143  | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 6.445 | 75  | 190040 | 9.167  | ppbv   | 96     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
 Data File : VL042201.D  
 Acq On : 31 Mar 2025 08:51  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Apr 01 01:49:21 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

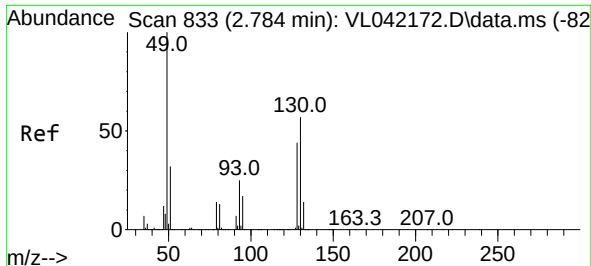
Reviewed By : Semsettin Yesilyurt 04/01/2025  
 Supervised By : Mahesh Dadoda 04/01/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.632  | 75   | 232713   | 9.158  | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 6.616  | 97   | 168373m  | 9.582  | ppbv   |          |
| 48) Dibromochloromethane      | 7.416  | 129  | 303330   | 10.186 | ppbv   | 100      |
| 49) Bromoform                 | 9.503  | 173  | 261484   | 9.780  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.791  | 43   | 437050   | 8.261  | ppbv   | 97       |
| 51) 2-Hexanone                | 7.464  | 43   | 351622   | 8.093  | ppbv # | 96       |
| 52) Tetrachloroethene         | 8.247  | 164  | 155203   | 8.574  | ppbv   | 96       |
| 53) Toluene                   | 6.962  | 91   | 492717   | 9.106  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.675  | 107  | 239347   | 9.771  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.947  | 131  | 236930   | 10.136 | ppbv   | 98       |
| 57) Chlorobenzene             | 8.943  | 112  | 389475   | 9.669  | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.374  | 91   | 712533   | 9.446  | ppbv   | 98       |
| 59) m/p-Xylene                | 9.571  | 91   | 1164678m | 19.336 | ppbv   |          |
| 60) o-Xylene                  | 9.986  | 91   | 575224   | 9.526  | ppbv   | 97       |
| 61) Styrene                   | 9.892  | 104  | 281518   | 9.424  | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.558 | 105  | 874894   | 9.689  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.982  | 83   | 349199   | 9.518  | ppbv   | 100      |
| 64) n-propylbenzene           | 11.008 | 120  | 228400   | 9.826  | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.549 | 119  | 795482   | 9.526  | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.633 | 91   | 72526    | 8.185  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.785 | 105  | 1123267  | 9.677  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 967912   | 9.684  | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.296 | 91   | 1006907  | 9.850  | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.918 | 91   | 676396   | 9.652  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.141 | 105  | 734909   | 9.775  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.222 | 105  | 637499   | 9.709  | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.555 | 105  | 696079   | 9.202  | ppbv   | 99       |
| 75) 1,3-Dichlorobenzene       | 11.623 | 146  | 410546   | 9.895  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.688 | 146  | 413478   | 10.014 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.963 | 146  | 399386   | 9.887  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 345217   | 8.395  | ppbv   | 99       |
| 79) Naphthalene               | 13.530 | 128  | 833346   | 10.072 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 427563   | 10.537 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 373226   | 9.779  | ppbv   | 99       |

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







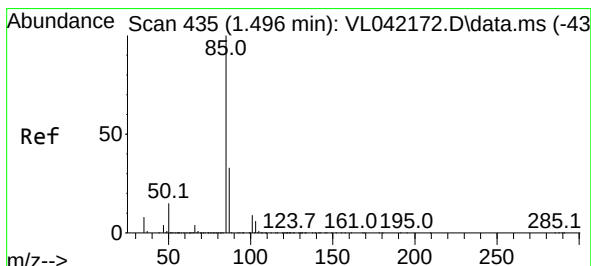
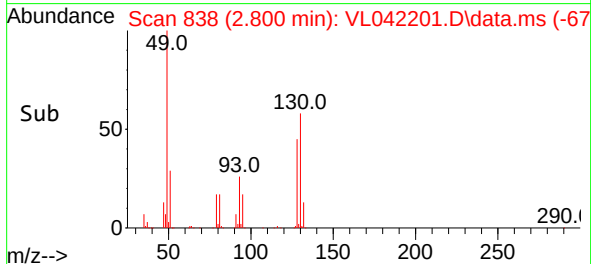
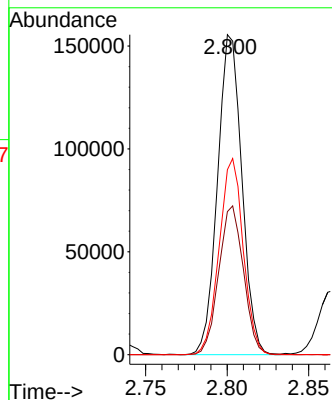
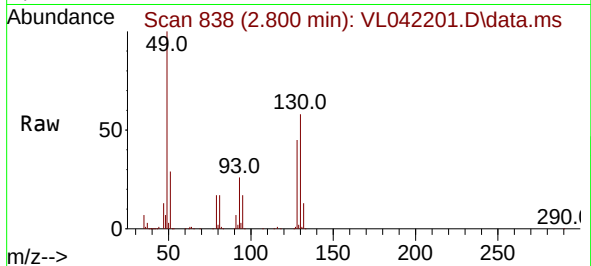
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.800 min Scan# 81  
Delta R.T. 0.016 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 49 Resp: 161478  
Ion Ratio Lower Upper  
49 100  
128 47.1 22.9 68.5  
130 60.6 28.8 86.4

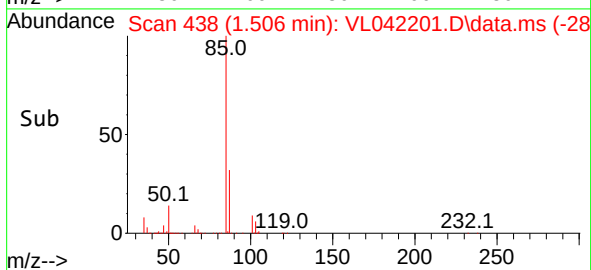
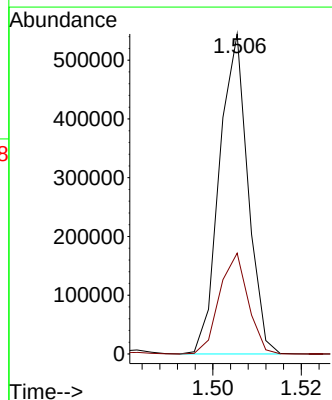
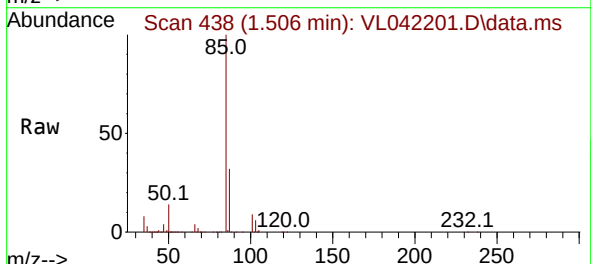
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

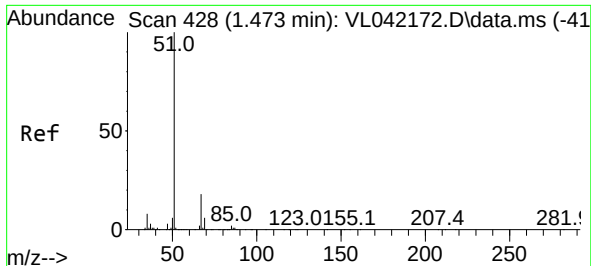


#2  
Dichlorodifluoromethane  
Concen: 10.220 ppbv  
RT: 1.506 min Scan# 438  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 85 Resp: 243672  
Ion Ratio Lower Upper  
85 100  
87 31.5 26.1 39.1







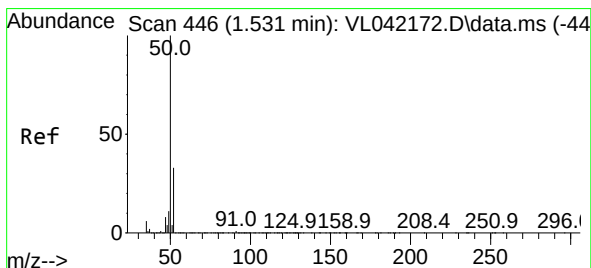
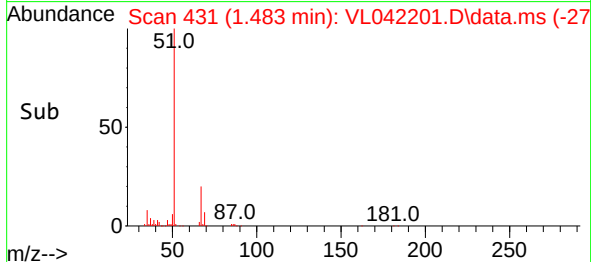
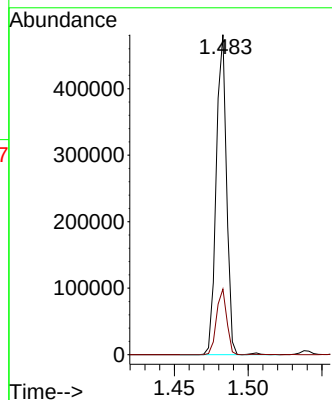
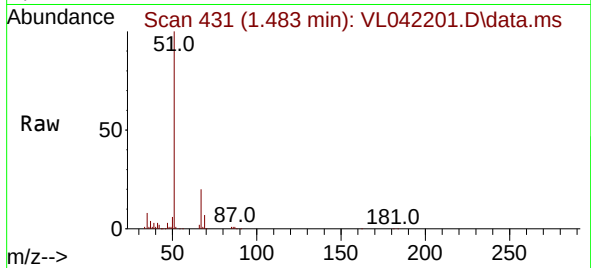
#3  
Chlorodifluoromethane  
Concen: 9.604 ppbv  
RT: 1.483 min Scan# 41  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 51 Resp: 23393  
Ion Ratio Lower Upper  
51 100  
67 20.4 15.0 22.6

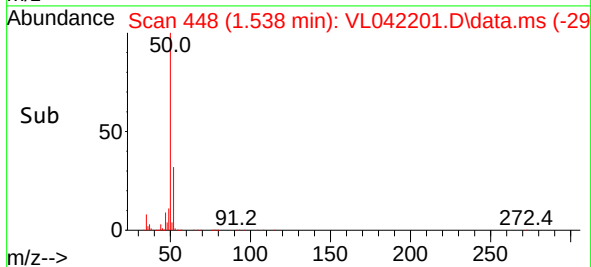
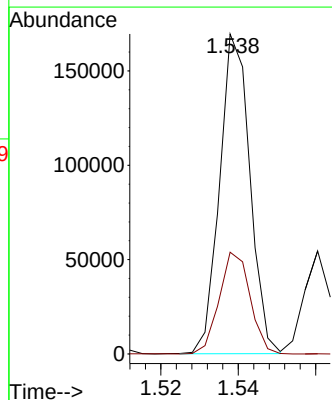
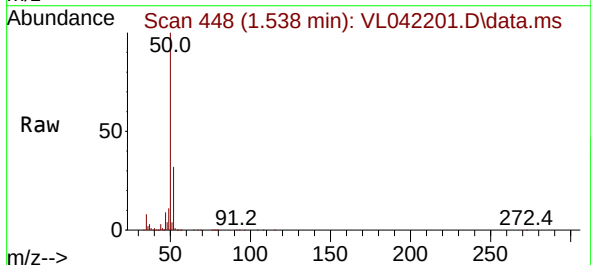
Manual Integrations  
APPROVED

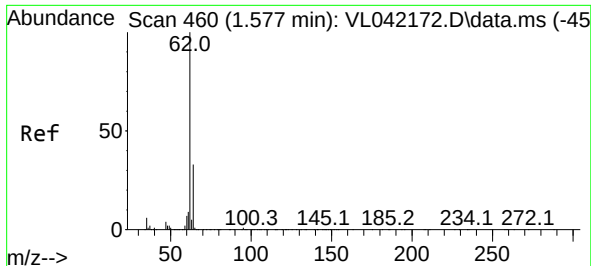
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#4  
Chloromethane  
Concen: 9.439 ppbv  
RT: 1.538 min Scan# 448  
Delta R.T. 0.006 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 50 Resp: 91967  
Ion Ratio Lower Upper  
50 100  
52 31.8 26.1 39.1





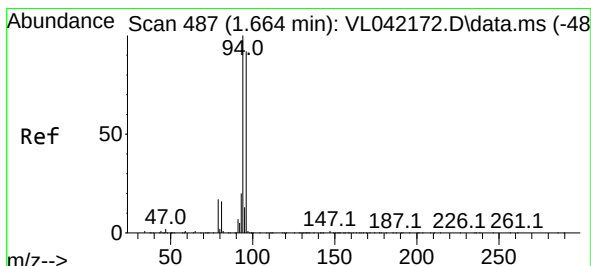
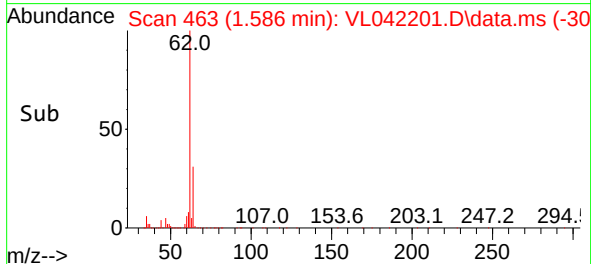
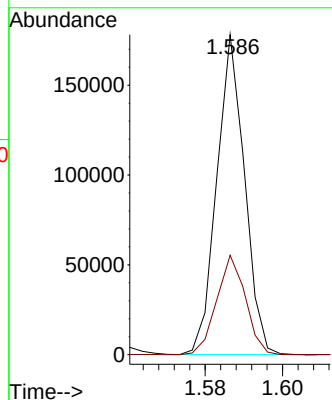
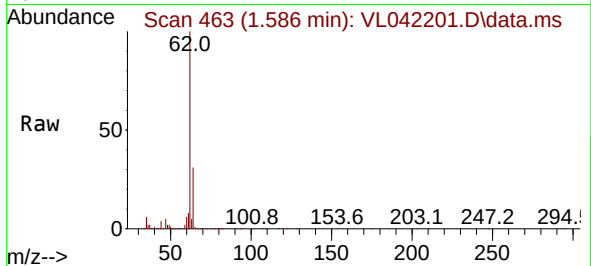
#5  
 Vinyl Chloride  
 Concen: 8.595 ppbv  
 RT: 1.586 min Scan# 40  
 Delta R.T. 0.010 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 62 Resp: 8874  
 Ion Ratio Lower Upper  
 62 100  
 64 31.1 26.6 40.0

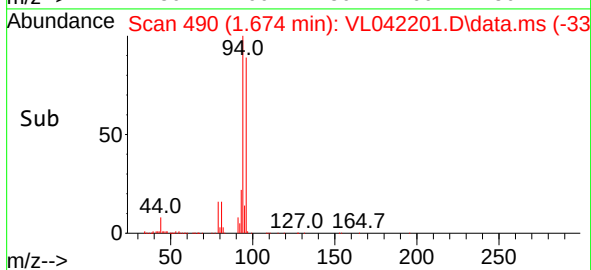
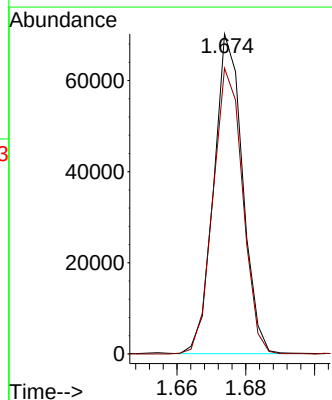
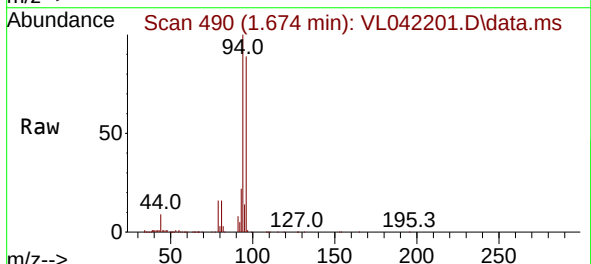
Manual Integrations  
 APPROVED

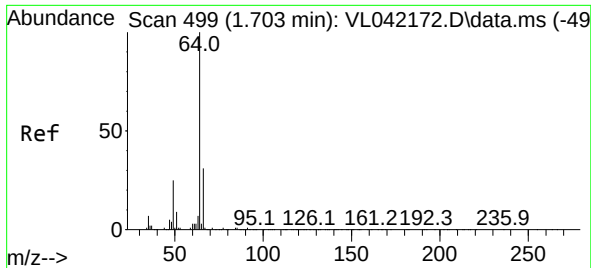
Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025



#6  
 Bromomethane  
 Concen: 9.232 ppbv  
 RT: 1.674 min Scan# 490  
 Delta R.T. 0.010 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51

Tgt Ion: 94 Resp: 40765  
 Ion Ratio Lower Upper  
 94 100  
 96 89.3 73.1 109.7





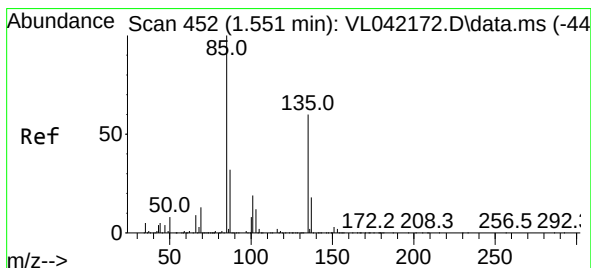
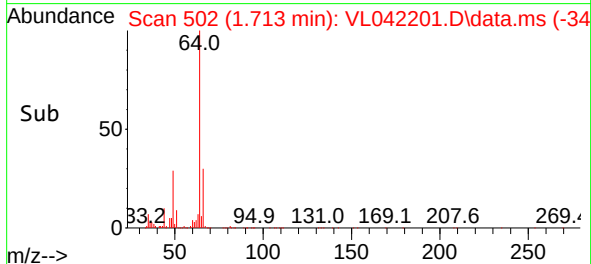
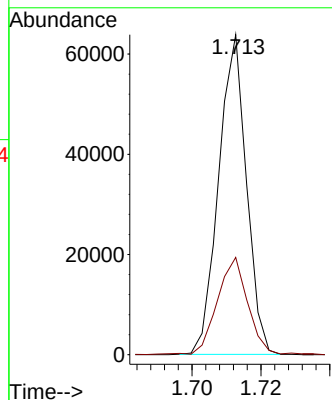
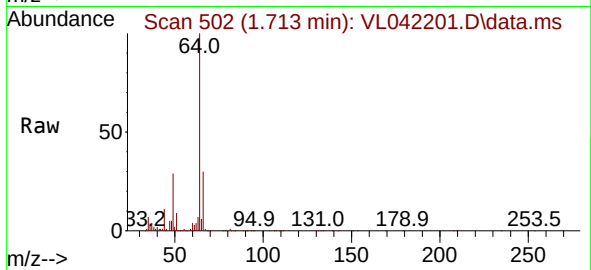
#7  
Chloroethane  
Concen: 9.112 ppbv  
RT: 1.713 min Scan# 502  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 64 Resp: 35638  
Ion Ratio Lower Upper  
64 100  
66 30.4 25.2 37.8

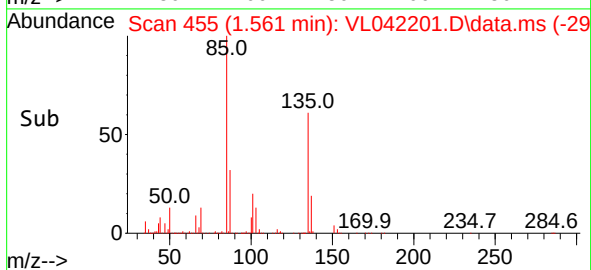
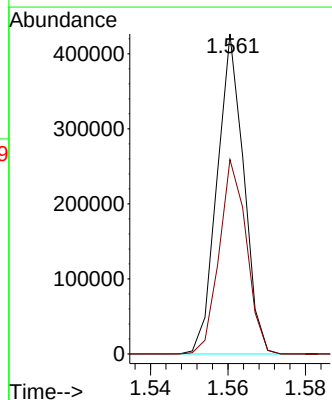
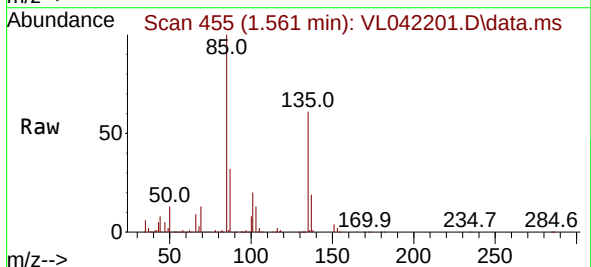
Manual Integrations  
APPROVED

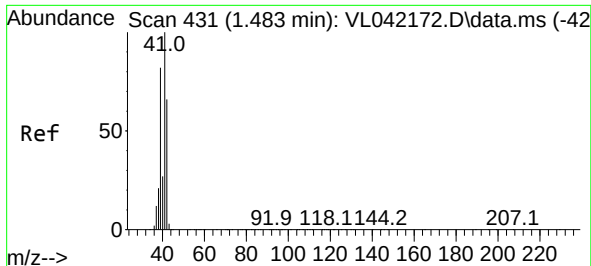
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#8  
Dichlorotetrafluoroethane  
Concen: 10.026 ppbv  
RT: 1.561 min Scan# 455  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

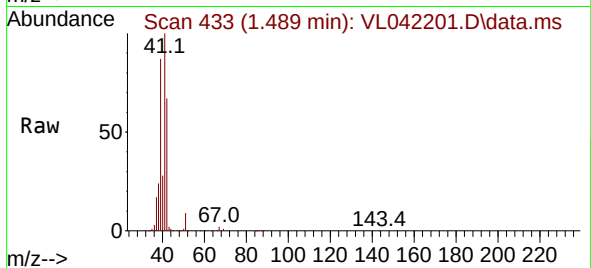
Tgt Ion: 85 Resp: 203570  
Ion Ratio Lower Upper  
85 100  
135 62.2 52.4 78.6





#9  
Propene  
Concen: 8.521 ppbv  
RT: 1.489 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

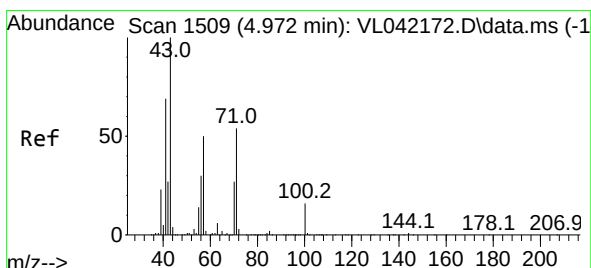
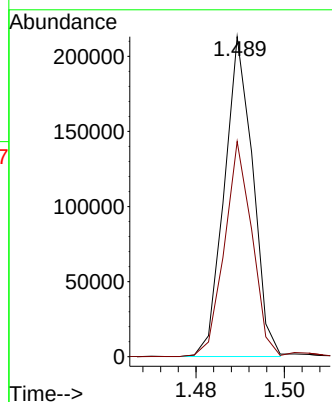
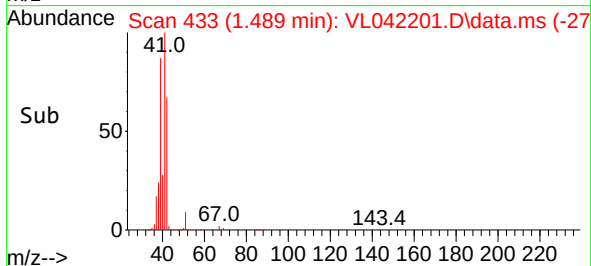
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



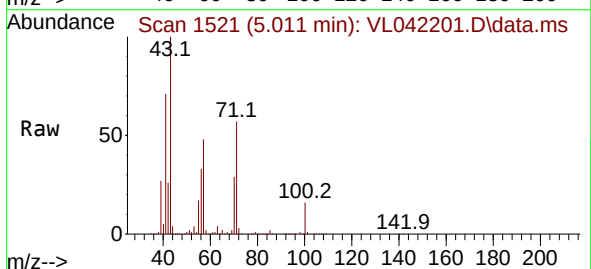
Tgt Ion: 41 Resp: 95128  
Ion Ratio Lower Upper  
41 100  
42 67.2 55.4 83.2

Manual Integrations  
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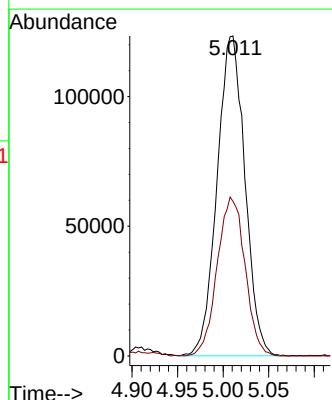
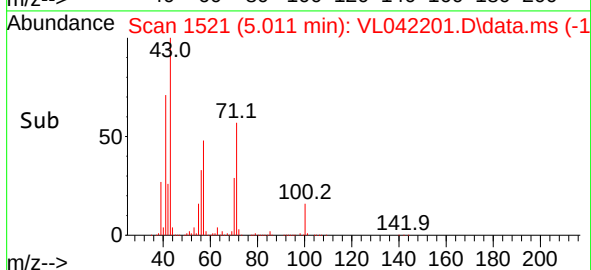
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

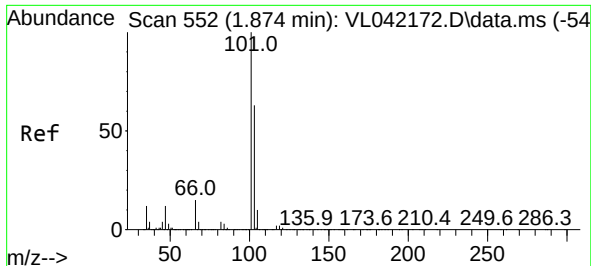


#10  
Heptane  
Concen: 8.821 ppbv  
RT: 5.011 min Scan# 1521  
Delta R.T. 0.039 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



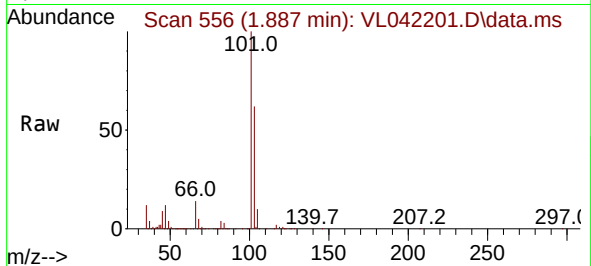
Tgt Ion: 43 Resp: 261936  
Ion Ratio Lower Upper  
43 100  
57 49.7 39.4 59.2





#11  
Trichlorofluoromethane  
Concen: 9.988 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. 0.013 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

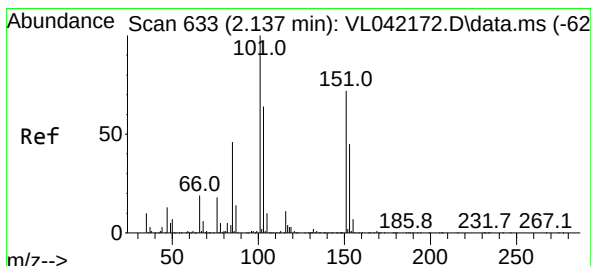
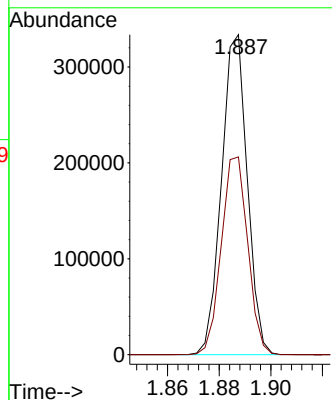
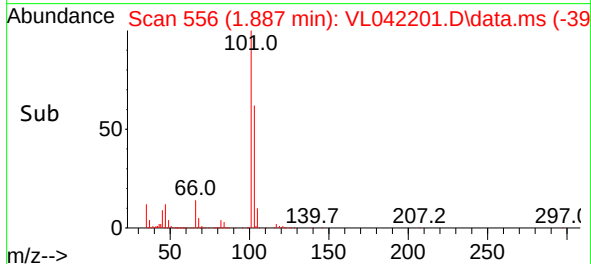
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



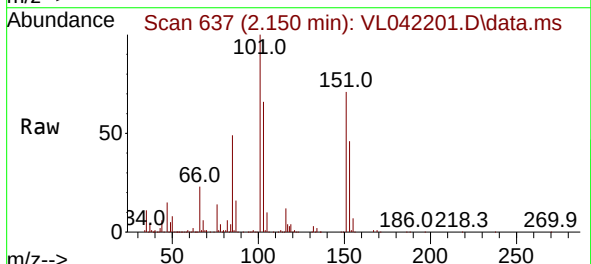
Tgt Ion:101 Resp: 23172  
Ion Ratio Lower Upper  
101 100  
103 61.8 50.2 75.2

Manual Integrations  
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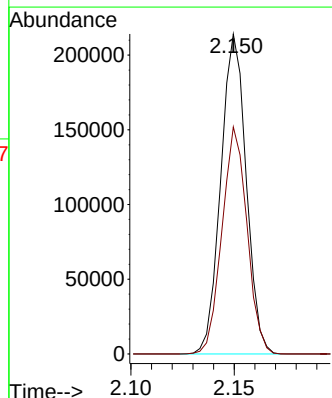
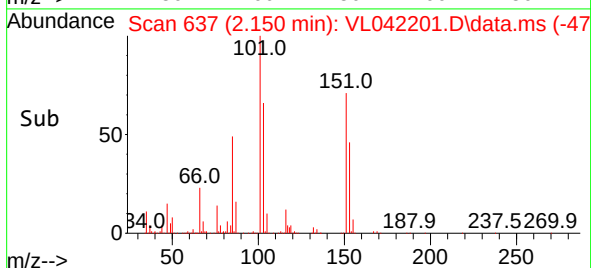
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

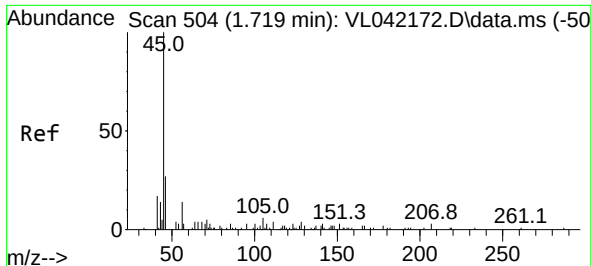


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.588 ppbv  
RT: 2.150 min Scan# 637  
Delta R.T. 0.013 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



Tgt Ion:101 Resp: 182824  
Ion Ratio Lower Upper  
101 100  
151 69.9 57.1 85.7





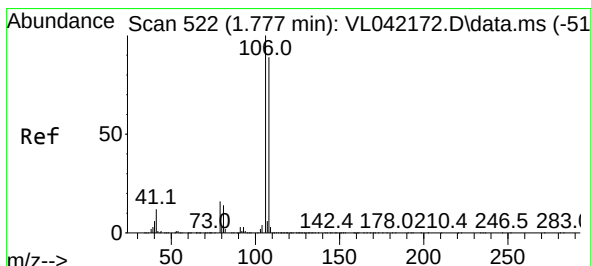
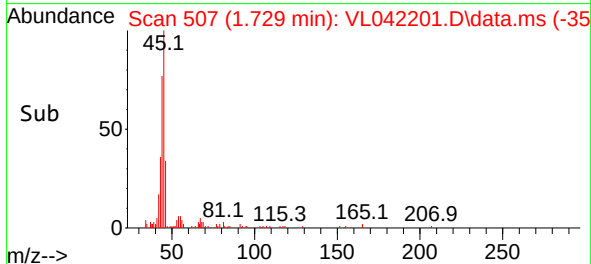
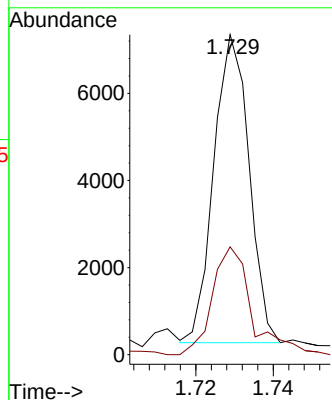
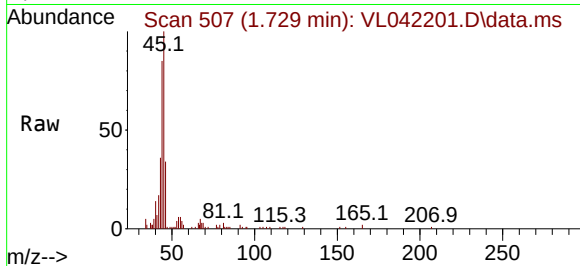
#13  
Ethanol  
Concen: 4.238 ppbv  
RT: 1.729 min Scan# 504  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 45 Resp: 447  
Ion Ratio Lower Upper  
45 100  
46 41.3 20.2 80.8

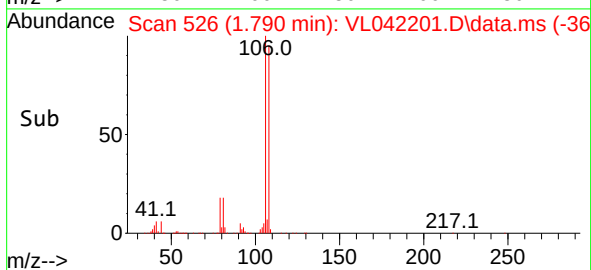
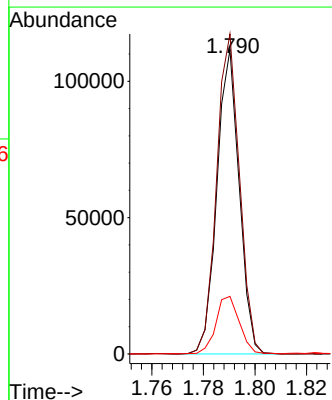
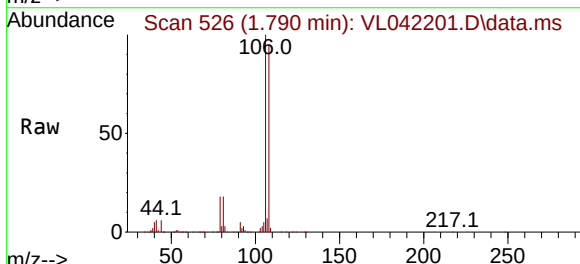
Manual Integrations  
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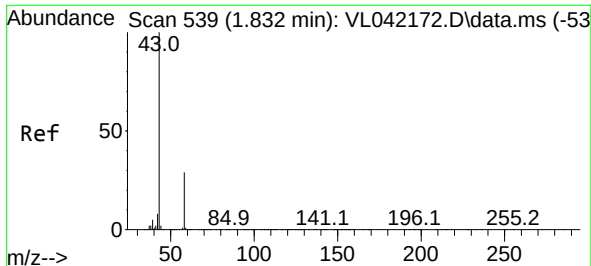
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#14  
Bromoethene  
Concen: 9.159 ppbv  
RT: 1.790 min Scan# 526  
Delta R.T. 0.013 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion:108 Resp: 66903  
Ion Ratio Lower Upper  
108 100  
106 107.5 86.8 130.2  
79 20.9 15.0 22.6





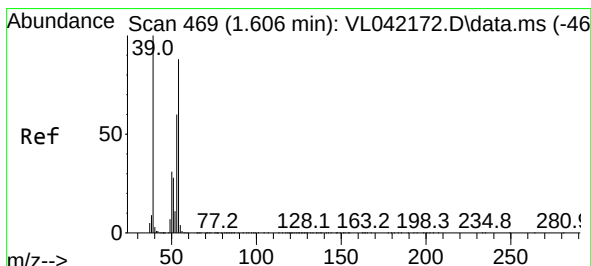
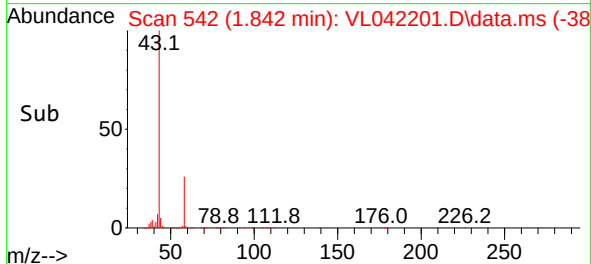
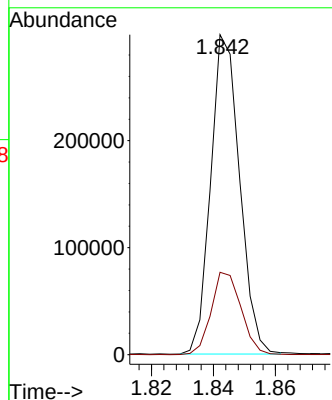
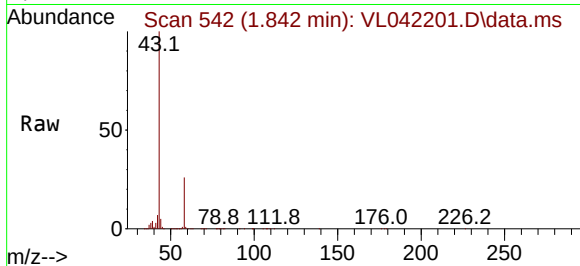
#15  
Acetone  
Concen: 8.580 ppbv  
RT: 1.842 min Scan# 54  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 19377  
Ion Ratio Lower Upper  
43 100  
58 26.7 23.2 34.8

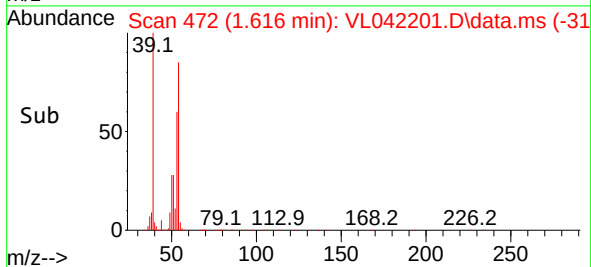
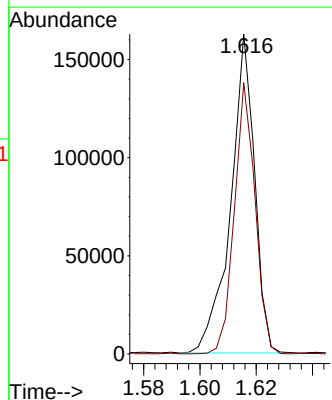
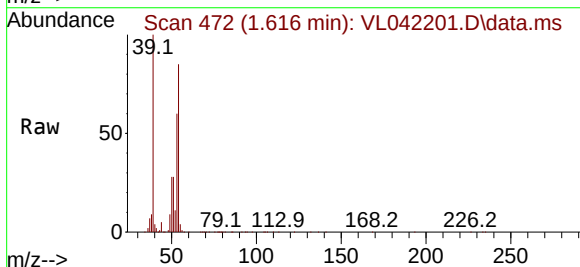
Manual Integrations  
APPROVED

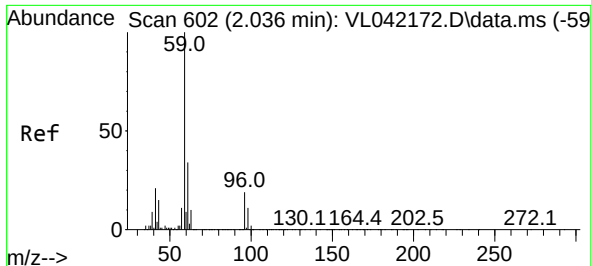
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#16  
1,3-Butadiene  
Concen: 8.709 ppbv  
RT: 1.616 min Scan# 472  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 39 Resp: 96046  
Ion Ratio Lower Upper  
39 100  
54 73.7 60.7 91.1





#17

tert-Butyl alcohol

Concen: 8.974 ppbv

RT: 2.049 min Scan# 60

Delta R.T. 0.013 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDC0010

Tgt Ion: 59 Resp: 252420

Ion Ratio Lower Upper

59 100

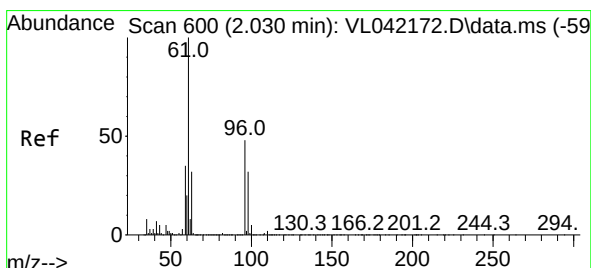
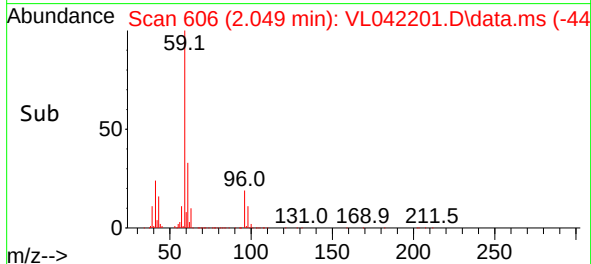
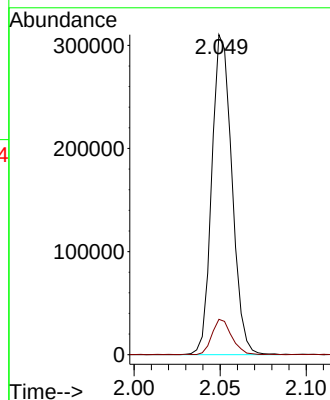
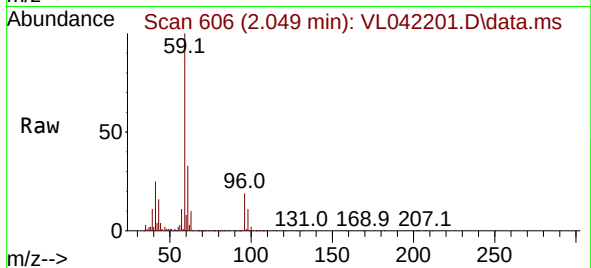
57 10.8 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025

Supervised By :Mahesh Dadoda 04/01/2025



#18

1,1-Dichloroethene

Concen: 9.296 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.013 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

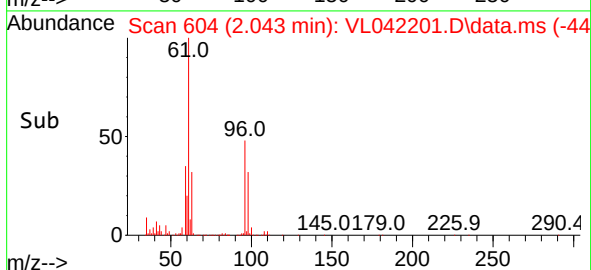
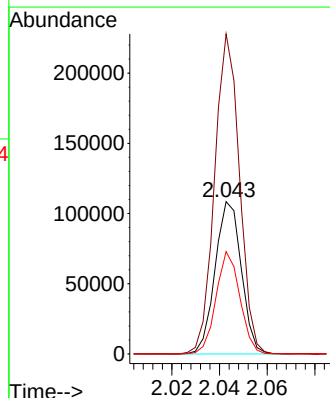
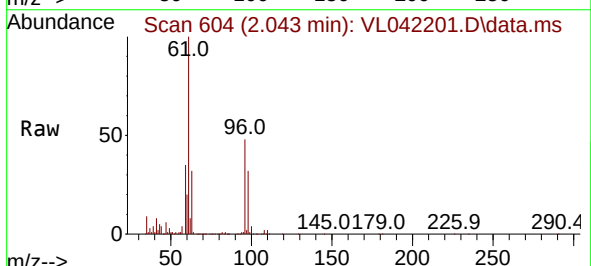
Tgt Ion: 96 Resp: 82868

Ion Ratio Lower Upper

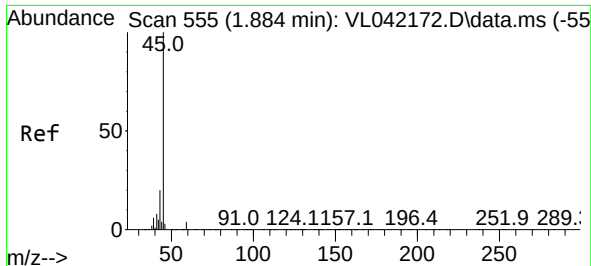
96 100

61 209.9 167.6 251.4

98 67.2 53.5 80.3







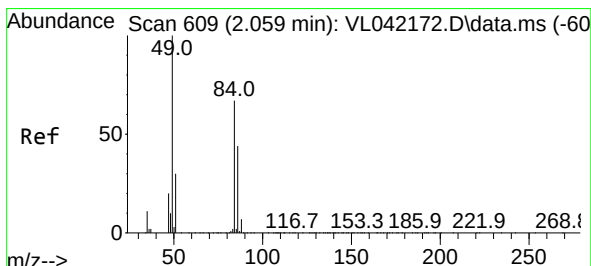
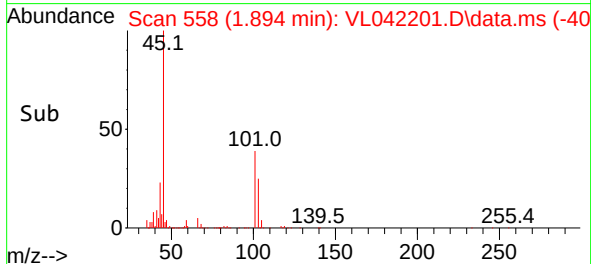
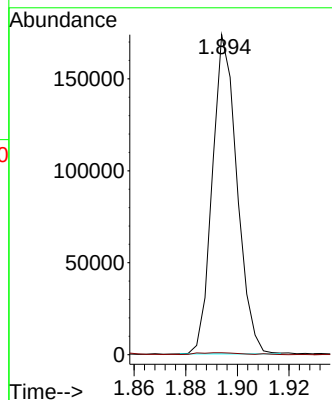
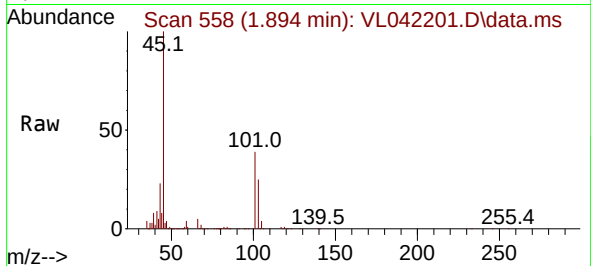
#19  
Isopropyl Alcohol  
Concen: 9.039 ppbv  
RT: 1.894 min Scan# 511  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 45 Resp: 115180  
Ion Ratio Lower Upper  
45 100  
58 45.0 36.9 55.3

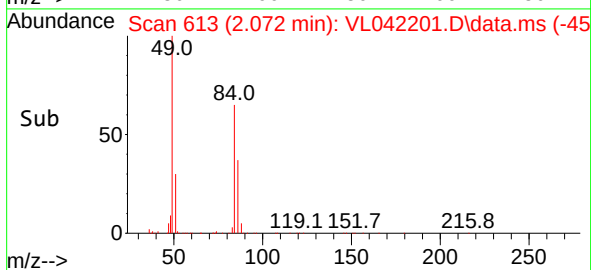
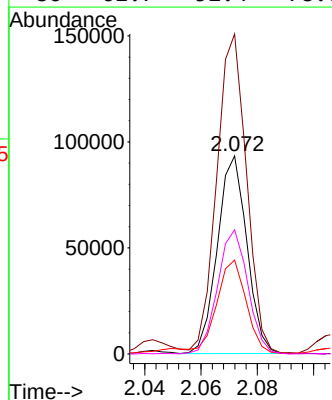
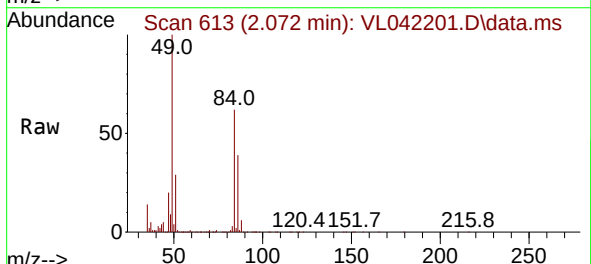
Manual Integrations  
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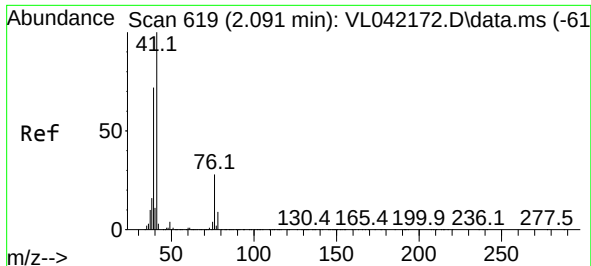
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#20  
Methylene Chloride  
Concen: 8.070 ppbv  
RT: 2.072 min Scan# 613  
Delta R.T. 0.013 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

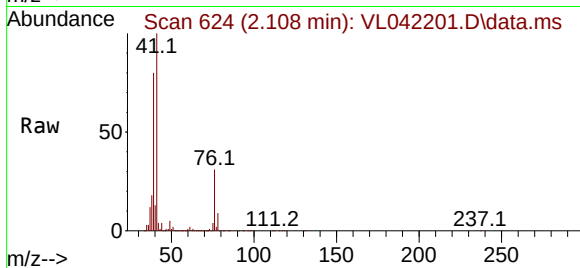
Tgt Ion: 84 Resp: 67877  
Ion Ratio Lower Upper  
84 100  
49 161.2 120.2 180.4  
51 47.1 37.4 56.0  
86 62.7 52.4 78.6





#21  
Allyl Chloride  
Concen: 9.079 ppbv  
RT: 2.108 min Scan# 61  
Delta R.T. 0.016 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

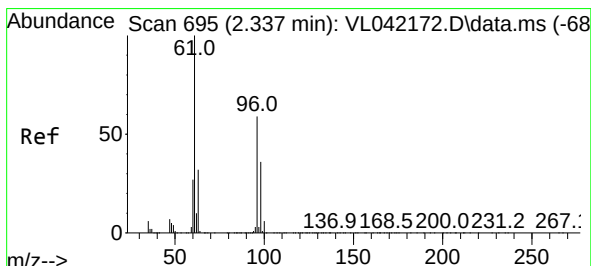
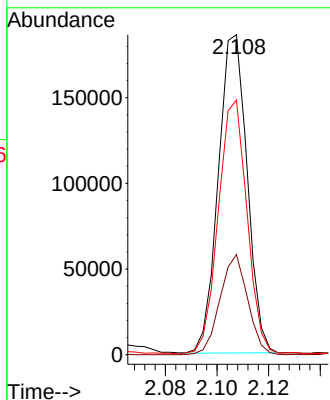
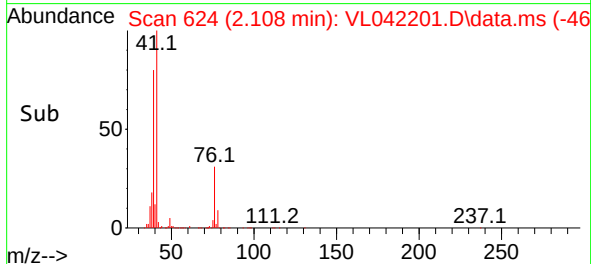
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



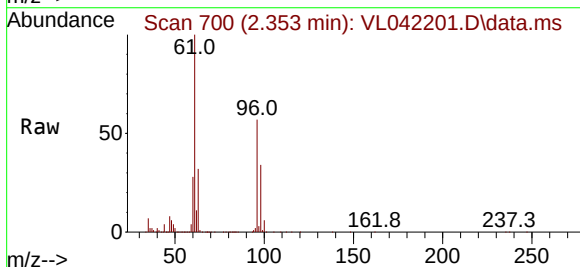
Tgt Ion: 41 Resp: 144599  
Ion Ratio Lower Upper  
41 100  
76 30.0 24.1 36.1  
39 79.1 61.1 91.7

Manual Integrations  
APPROVED

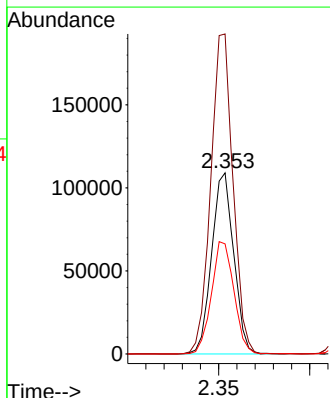
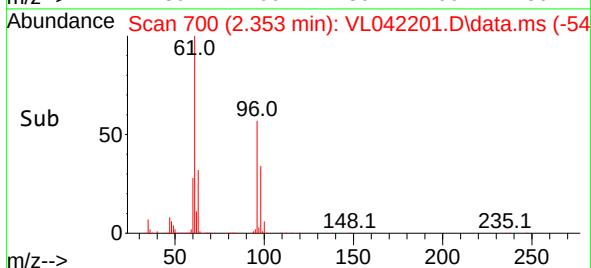
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

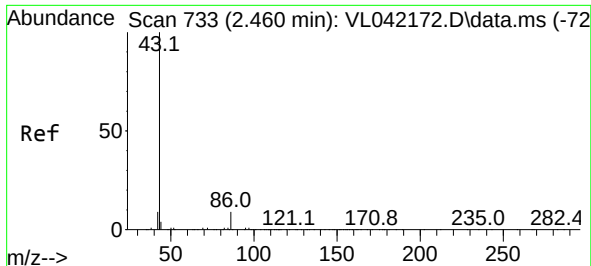


#22  
trans-1,2-Dichloroethene  
Concen: 8.924 ppbv  
RT: 2.353 min Scan# 700  
Delta R.T. 0.016 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



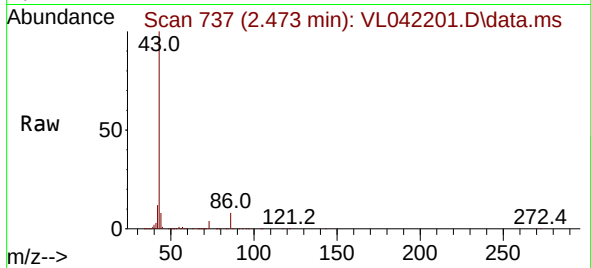
Tgt Ion: 96 Resp: 91942  
Ion Ratio Lower Upper  
96 100  
61 176.6 136.6 204.8  
98 60.8 49.4 74.2





#23  
 Vinyl Acetate  
 Concen: 8.485 ppbv  
 RT: 2.473 min Scan# 71  
 Delta R.T. 0.013 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51

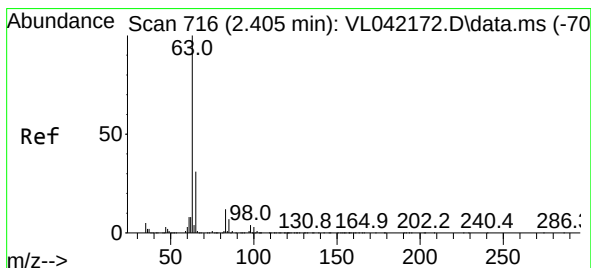
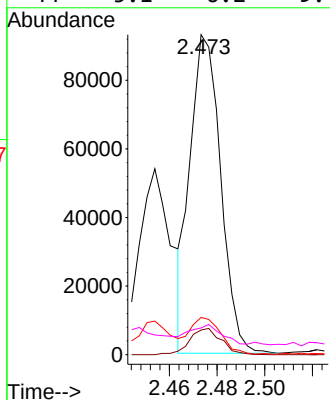
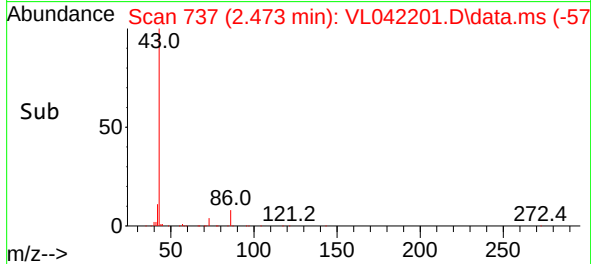
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



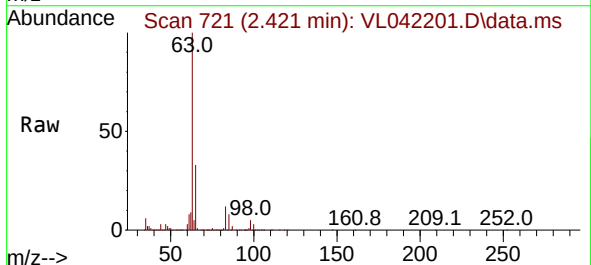
| Tgt Ion: | 43    | Resp: | 82938 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 7.8   | 5.5   | 8.3   |
| 42       | 11.5  | 8.6   | 13.0  |
| 44       | 5.1   | 6.2   | 9.4   |

Manual Integrations  
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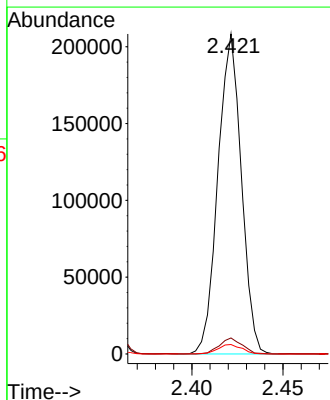
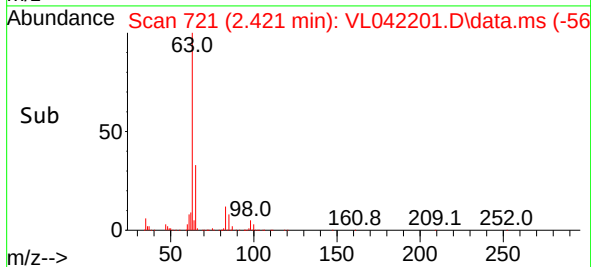
Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025

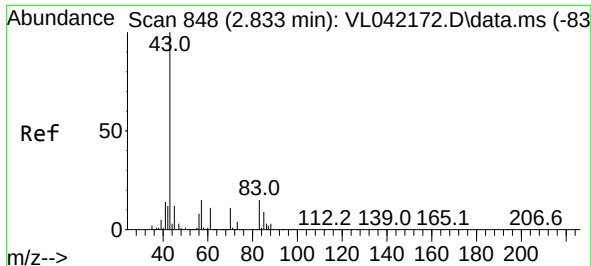


#24  
 1,1-Dichloroethane  
 Concen: 9.730 ppbv  
 RT: 2.421 min Scan# 721  
 Delta R.T. 0.016 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51



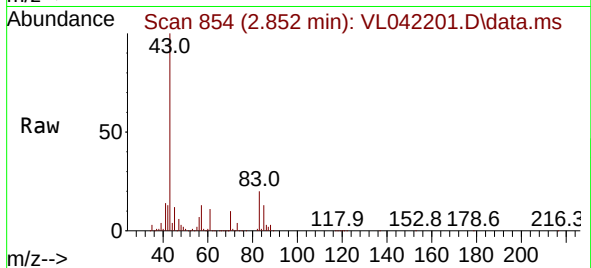
| Tgt Ion: | 63    | Resp: | 185830 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 5.0   | 2.3   | 6.8    |
| 100      | 2.9   | 1.6   | 4.7    |





#25  
Ethyl Acetate  
Concen: 9.151 ppbv  
RT: 2.852 min Scan# 80  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

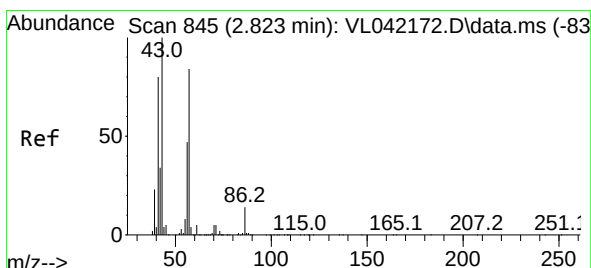
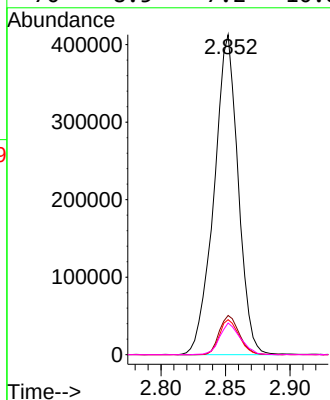
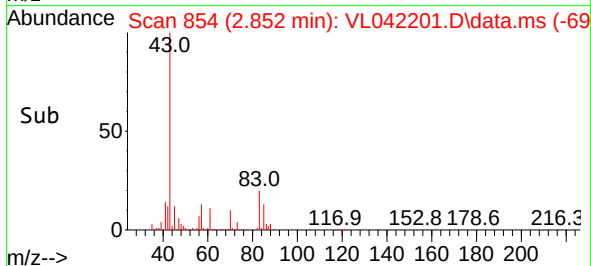
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



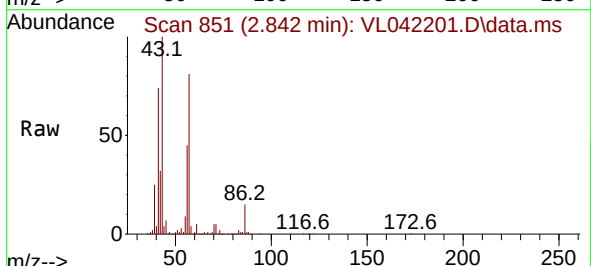
Tgt Ion: 43 Resp: 536360  
Ion Ratio Lower Upper  
43 100  
45 10.2 8.2 12.2  
61 9.0 7.3 10.9  
70 8.5 7.2 10.8

Manual Integrations  
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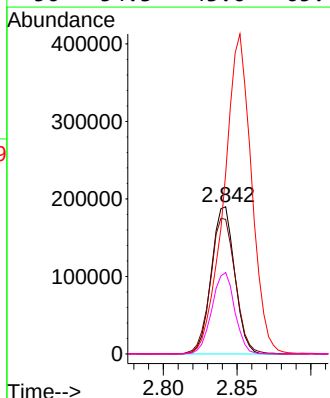
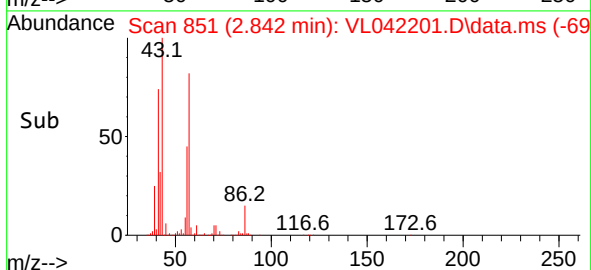
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

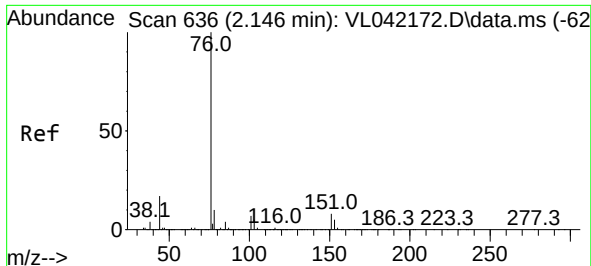


#26  
Hexane  
Concen: 9.236 ppbv  
RT: 2.842 min Scan# 851  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



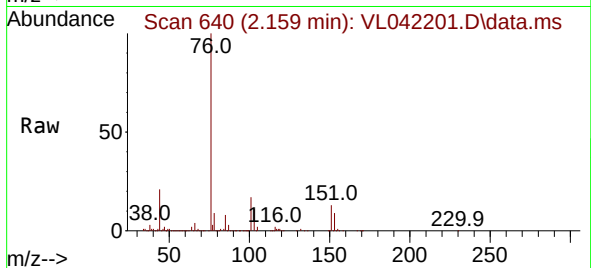
Tgt Ion: 57 Resp: 209103  
Ion Ratio Lower Upper  
57 100  
41 98.8 76.6 114.8  
43 257.3 207.8 311.8  
56 54.3 43.6 65.4





#27  
Carbon Disulfide  
Concen: 9.481 ppbv  
RT: 2.159 min Scan# 640  
Delta R.T. 0.013 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

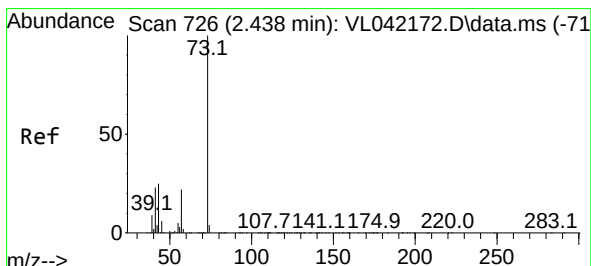
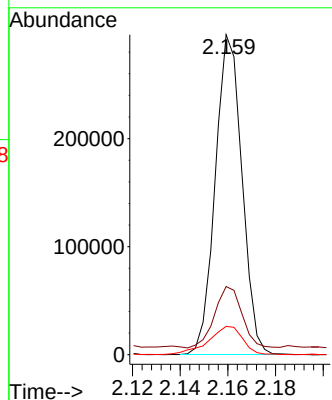
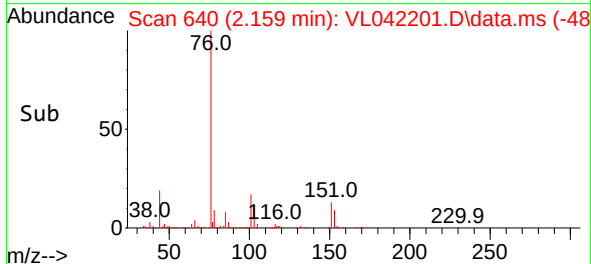
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



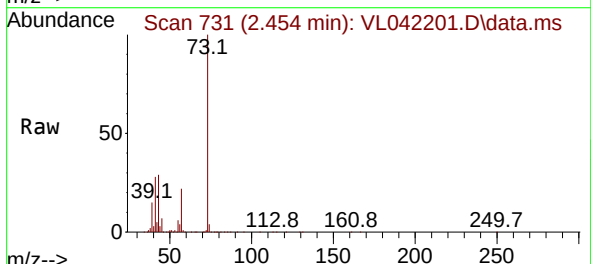
Tgt Ion: 76 Resp: 23017  
Ion Ratio Lower Upper  
76 100  
44 20.1 14.7 22.1  
78 11.4 9.3 13.9

Manual Integrations  
APPROVED

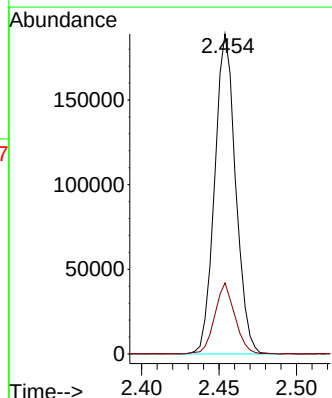
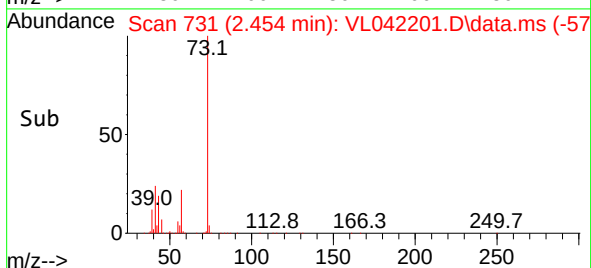
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

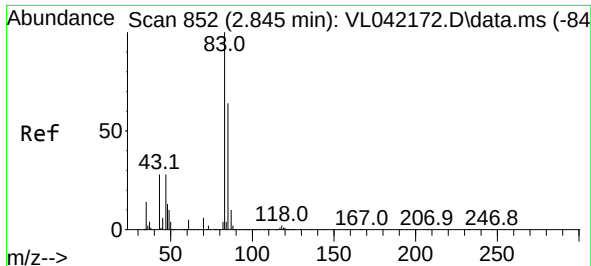


#28  
Methyl tert-Butyl Ether  
Concen: 12.635 ppbv  
RT: 2.454 min Scan# 731  
Delta R.T. 0.016 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



Tgt Ion: 73 Resp: 178093  
Ion Ratio Lower Upper  
73 100  
57 21.4 20.5 30.7





#29

Chloroform

Concen: 10.200 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDC0010

Tgt Ion: 83 Resp: 337970

Ion Ratio Lower Upper

83 100

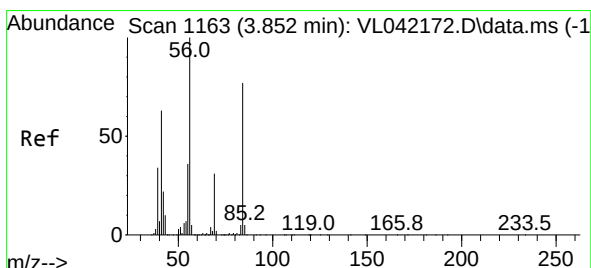
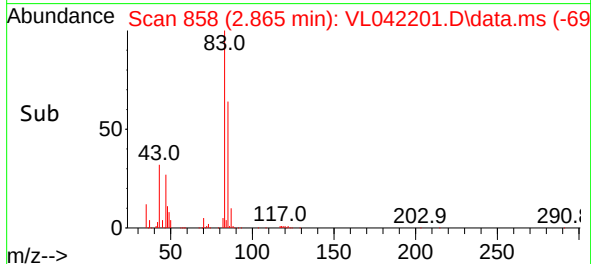
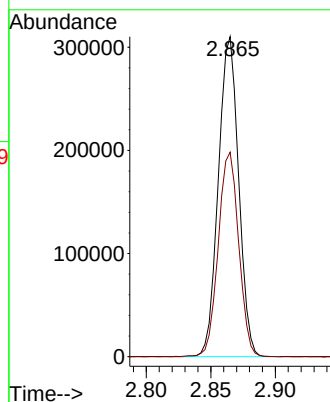
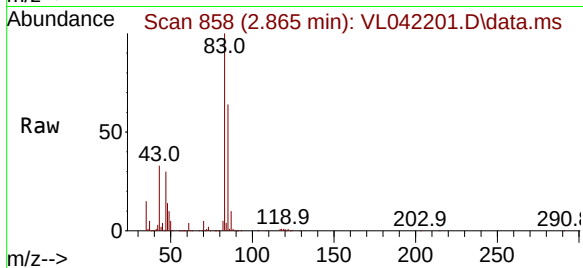
85 63.9 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025

Supervised By :Mahesh Dadoda 04/01/2025



#30

Cyclohexane

Concen: 9.162 ppbv

RT: 3.878 min Scan# 1171

Delta R.T. 0.026 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

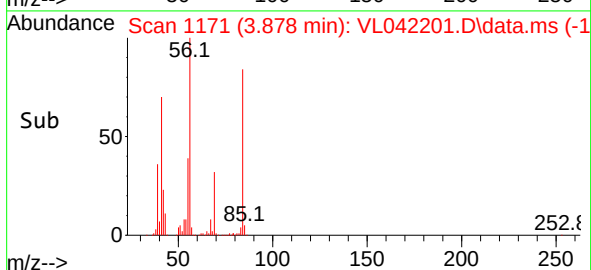
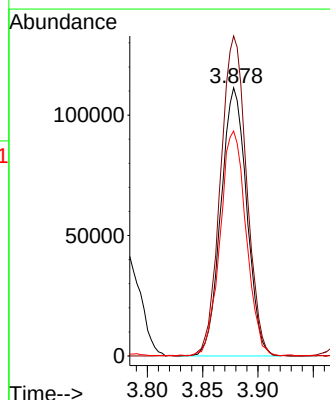
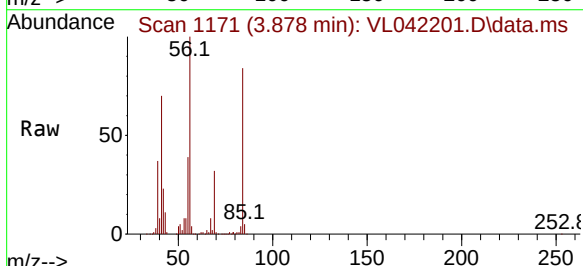
Tgt Ion: 84 Resp: 180110

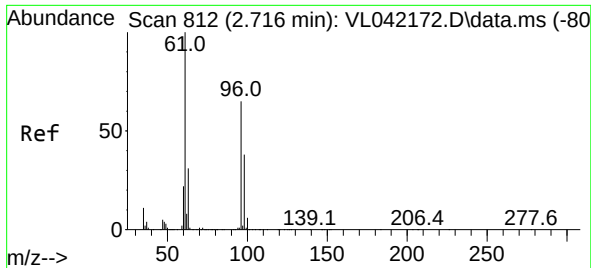
Ion Ratio Lower Upper

84 100

56 121.1 102.8 154.2

41 84.6 66.5 99.7





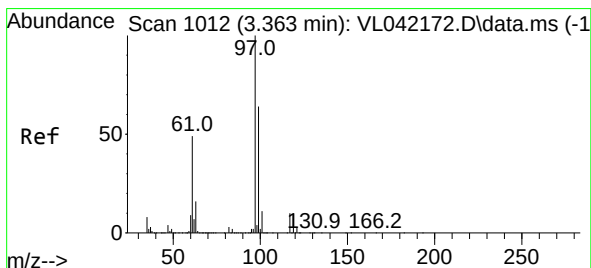
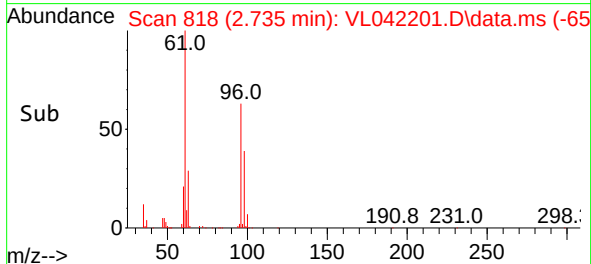
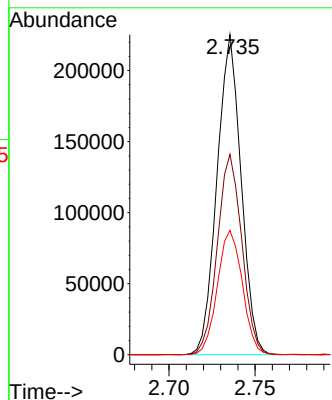
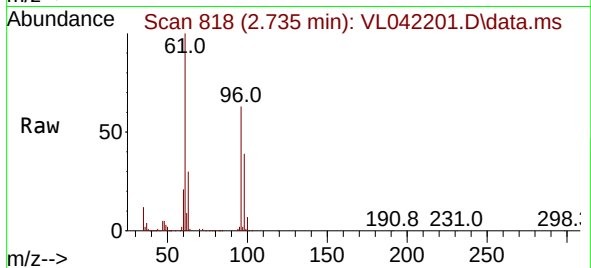
#31  
 cis-1,2-Dichloroethene  
 Concen: 9.545 ppbv  
 RT: 2.735 min Scan# 812  
 Delta R.T. 0.019 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 61 Resp: 219389  
 Ion Ratio Lower Upper  
 61 100  
 96 62.6 51.8 77.8  
 98 38.9 30.6 46.0

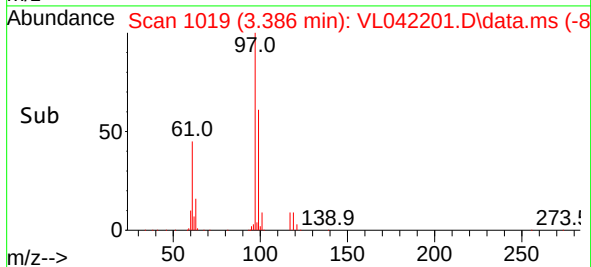
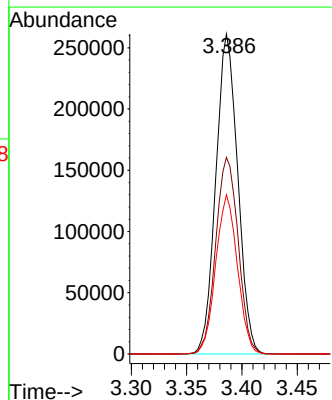
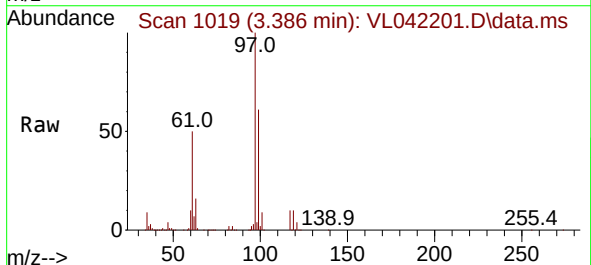
Manual Integrations  
 APPROVED

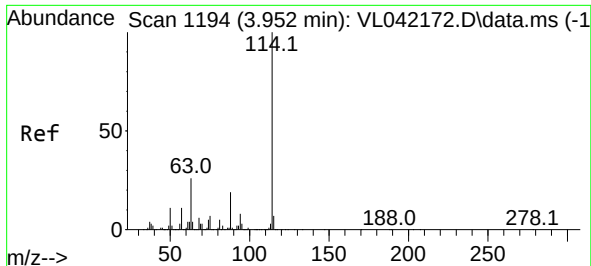
Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025



#32  
 1,1,1-Trichloroethane  
 Concen: 9.483 ppbv  
 RT: 3.386 min Scan# 1019  
 Delta R.T. 0.023 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51

Tgt Ion: 97 Resp: 359718  
 Ion Ratio Lower Upper  
 97 100  
 99 63.0 51.5 77.3  
 61 49.3 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.982 min Scan# 1194

Delta R.T. 0.029 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

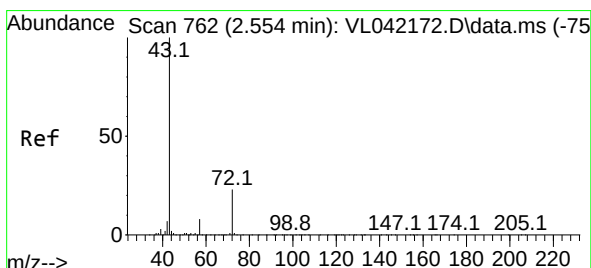
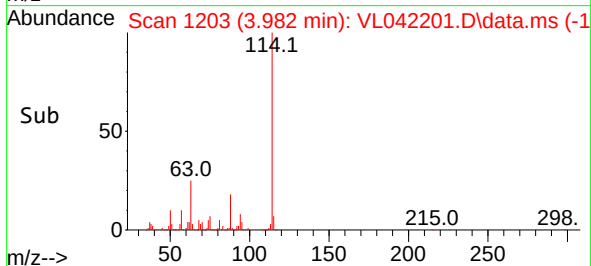
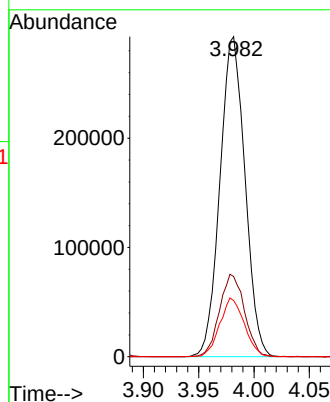
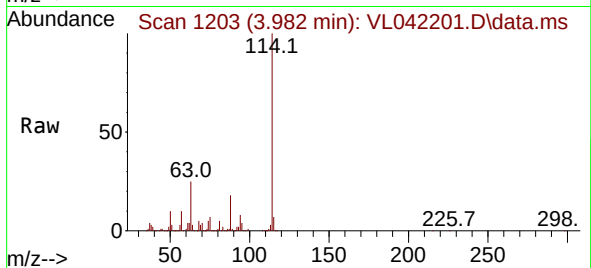
Tgt Ion:114 Resp: 46040

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 25.8  | 20.7  | 31.1  |
| 88  | 18.0  | 15.0  | 22.4  |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#34

2-Butanone

Concen: 9.026 ppbv

RT: 2.570 min Scan# 767

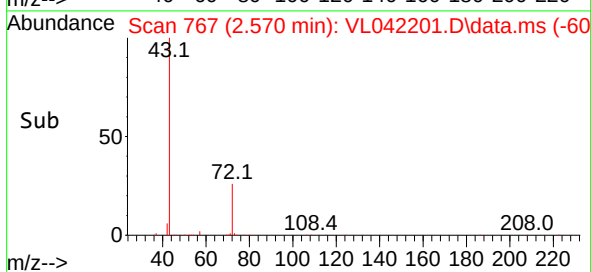
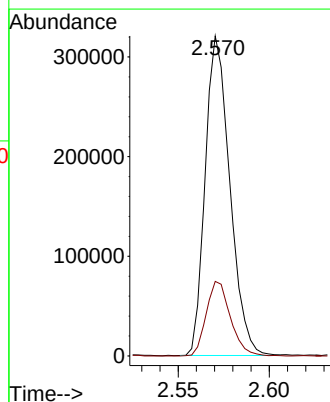
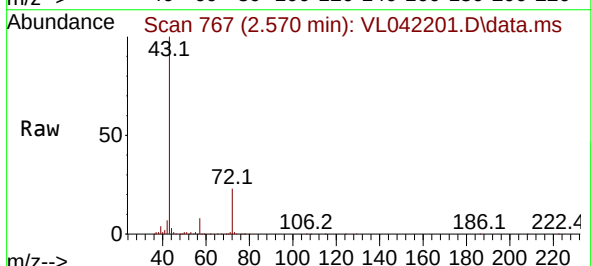
Delta R.T. 0.016 min

Lab File: VL042201.D

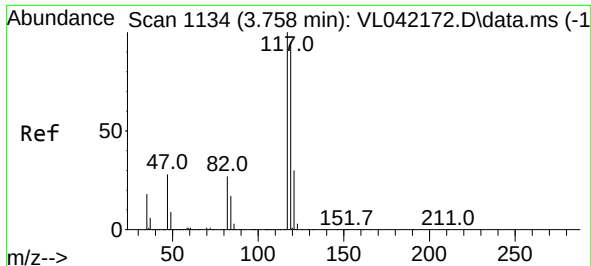
Acq: 31 Mar 2025 08:51

Tgt Ion: 43 Resp: 301334

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 23.0  | 18.2  | 27.2  |

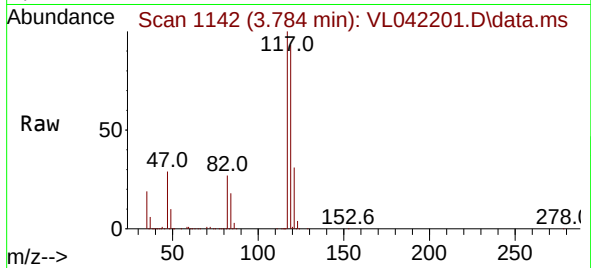






#35  
Carbon Tetrachloride  
Concen: 10.335 ppbv  
RT: 3.784 min Scan# 1134  
Delta R.T. 0.026 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

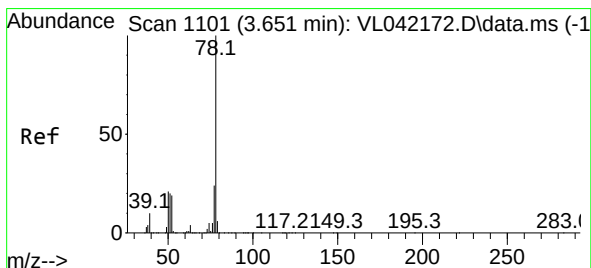
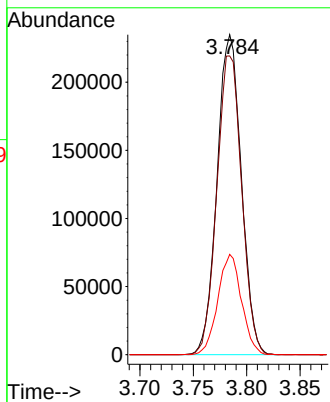
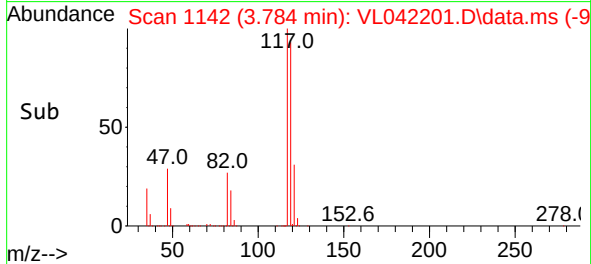
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



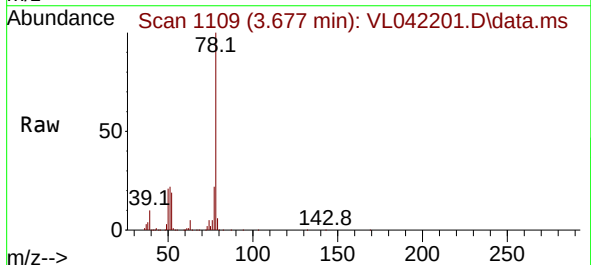
Tgt Ion:117 Resp: 37169  
Ion Ratio Lower Upper  
117 100  
119 93.4 76.2 114.2  
121 31.3 24.2 36.4

Manual Integrations  
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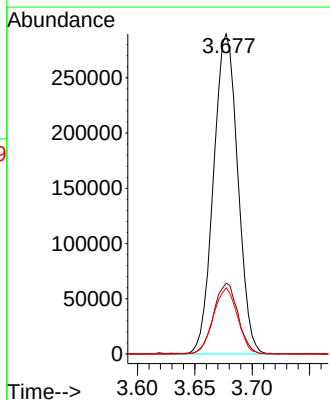
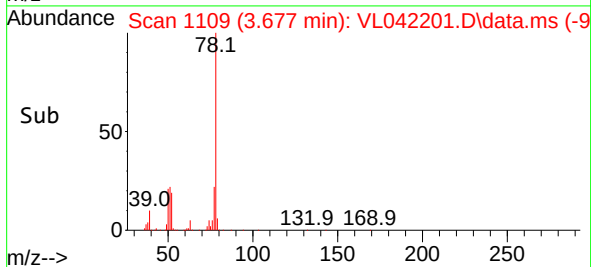
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

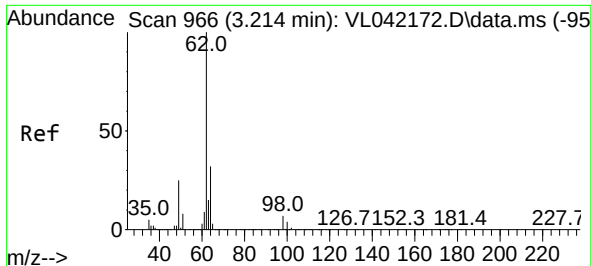


#36  
Benzene  
Concen: 9.350 ppbv  
RT: 3.677 min Scan# 1109  
Delta R.T. 0.026 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



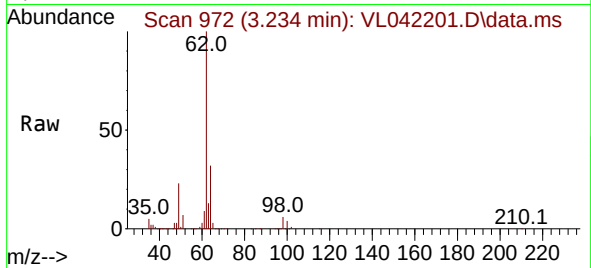
Tgt Ion: 78 Resp: 426758  
Ion Ratio Lower Upper  
78 100  
77 22.1 19.1 28.7  
50 20.6 16.6 24.8





#37  
1,2-Dichloroethane  
Concen: 10.453 ppbv  
RT: 3.234 min Scan# 91  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

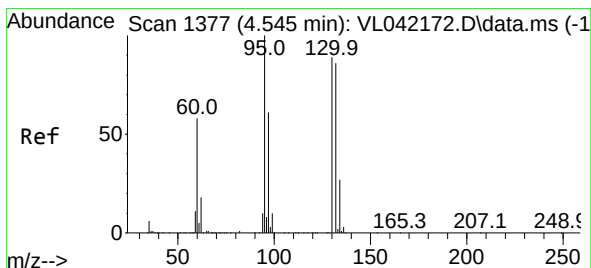
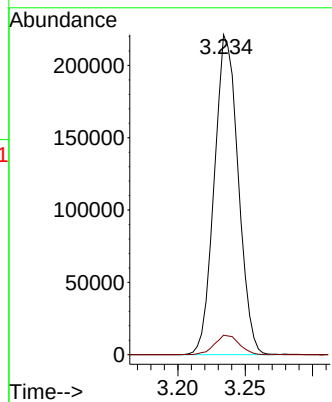
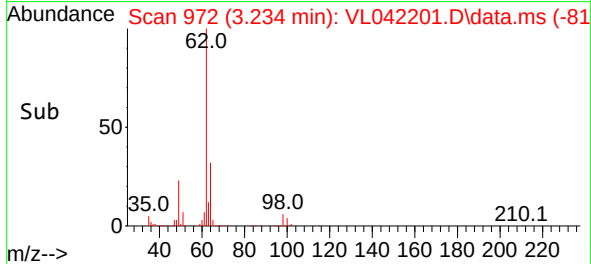
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 62 Resp: 27313  
Ion Ratio Lower Upper  
62 100  
98 6.3 5.4 8.2

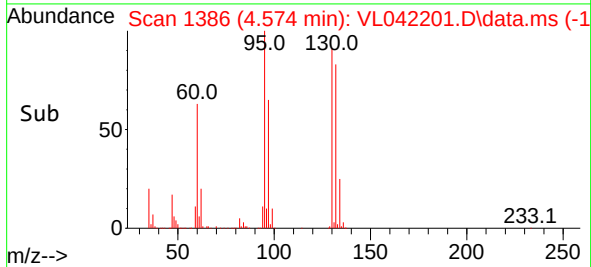
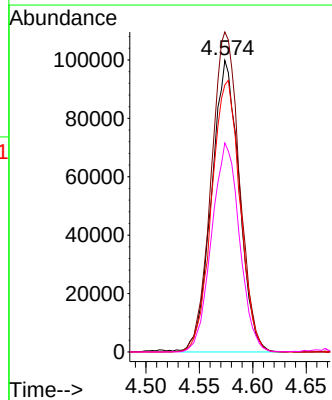
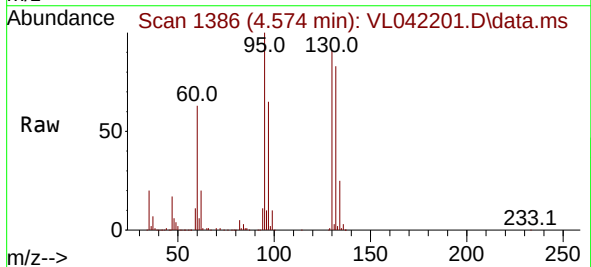
Manual Integrations  
APPROVED

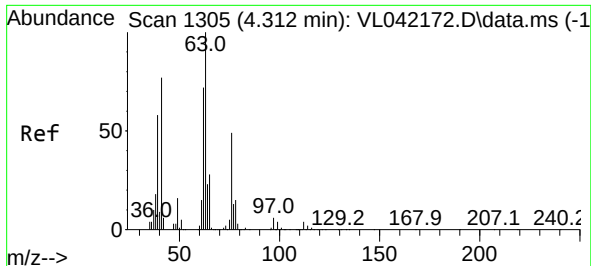
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#38  
Trichloroethene  
Concen: 9.452 ppbv  
RT: 4.574 min Scan# 1386  
Delta R.T. 0.029 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion:130 Resp: 179999  
Ion Ratio Lower Upper  
130 100  
95 109.7 89.8 134.8  
132 91.5 77.4 116.2  
97 71.6 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.212 ppbv

RT: 4.338 min Scan# 1313

Delta R.T. 0.026 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDC010

Tgt Ion: 63 Resp: 153124

Ion Ratio Lower Upper

63 100

41 86.5 61.7 92.5

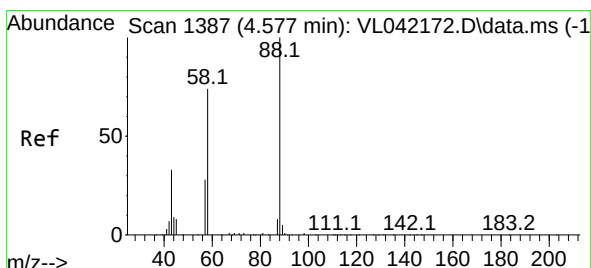
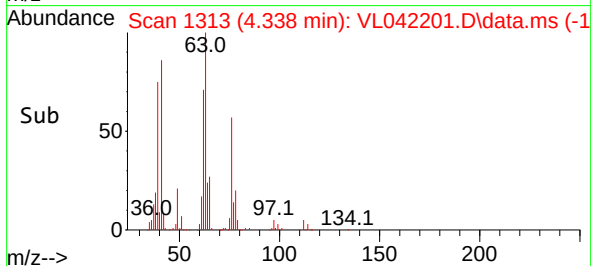
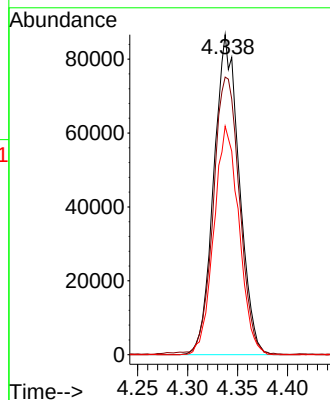
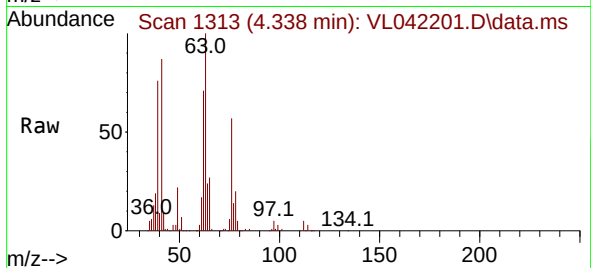
62 71.4 57.6 86.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025

Supervised By :Mahesh Dadoda 04/01/2025



#40

1,4-Dioxane

Concen: 8.741 ppbv m

RT: 4.613 min Scan# 1398

Delta R.T. 0.036 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Tgt Ion: 88 Resp: 77121

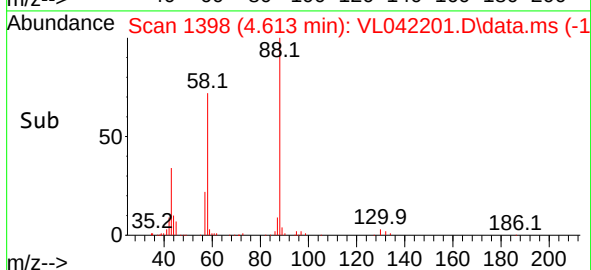
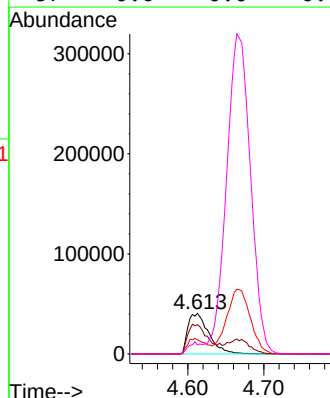
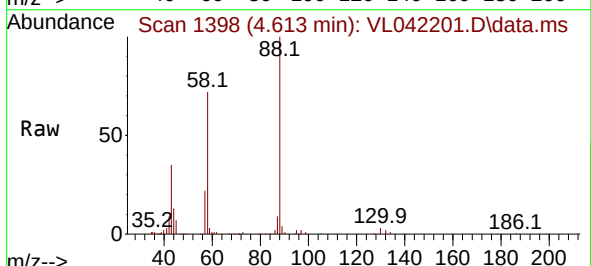
Ion Ratio Lower Upper

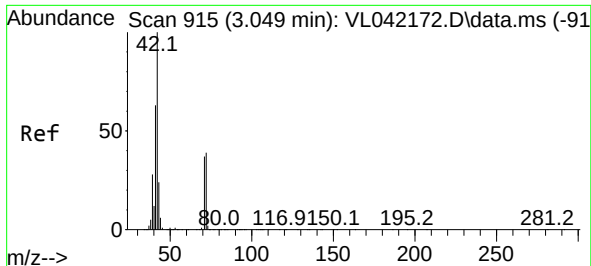
88 100

58 0.0 62.7 94.1#

43 34.1 23.0 34.4

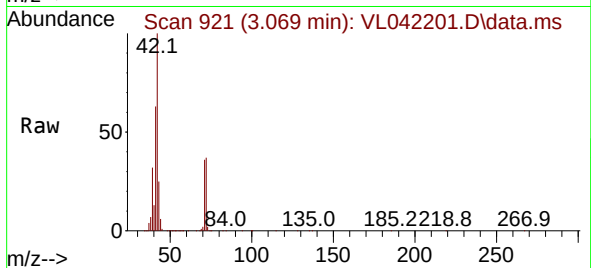
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 8.886 ppbv  
RT: 3.069 min Scan# 915  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

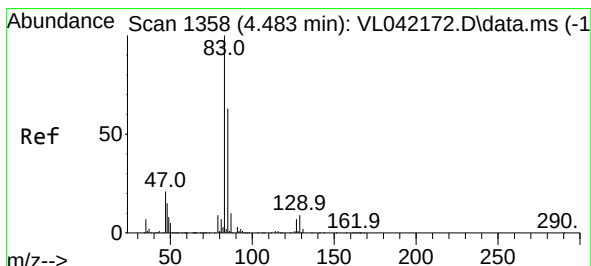
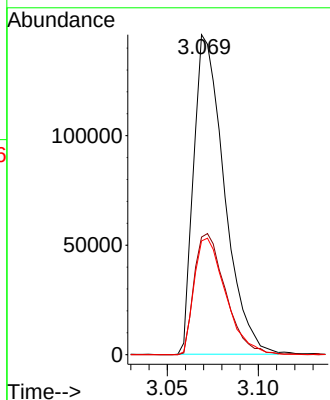
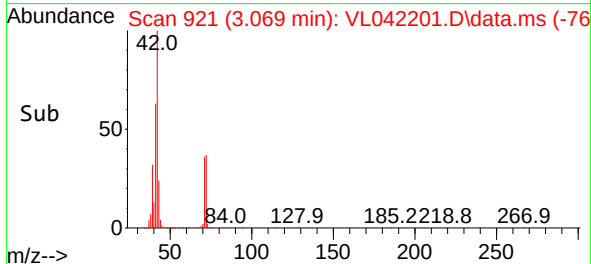
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



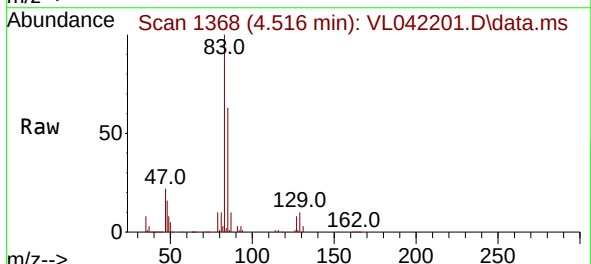
Tgt Ion: 42 Resp: 170829  
Ion Ratio Lower Upper  
42 100  
72 38.9 31.4 47.0  
71 37.7 30.2 45.4

Manual Integrations  
APPROVED

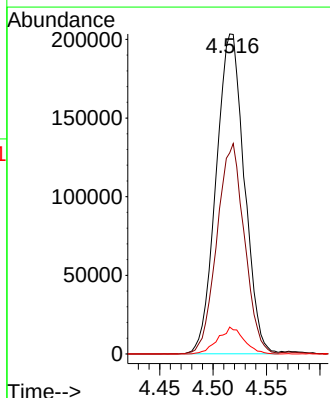
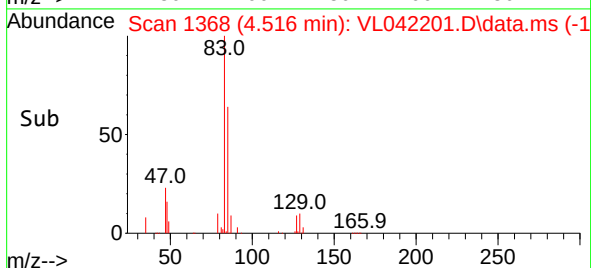
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

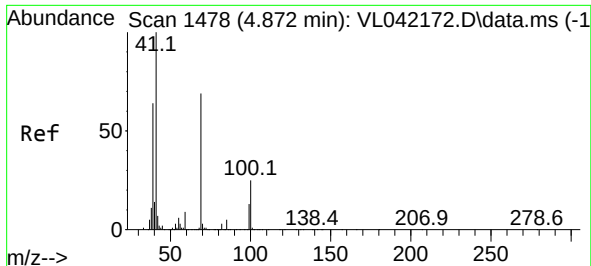


#42  
Bromodichloromethane  
Concen: 10.365 ppbv  
RT: 4.516 min Scan# 1368  
Delta R.T. 0.032 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



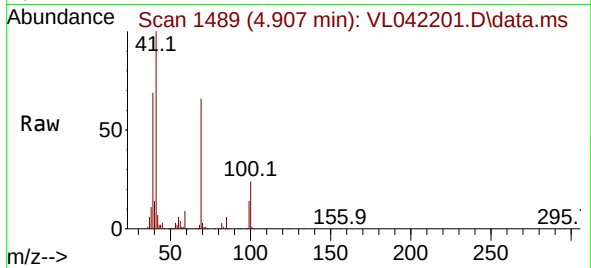
Tgt Ion: 83 Resp: 373399  
Ion Ratio Lower Upper  
83 100  
85 62.9 50.5 75.7  
127 8.4 5.9 8.9





#43  
Methyl Methacrylate  
Concen: 8.814 ppbv  
RT: 4.907 min Scan# 1414  
Delta R.T. 0.036 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

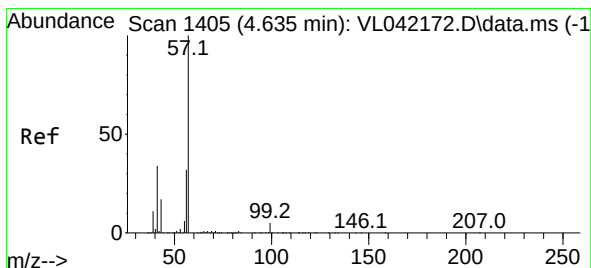
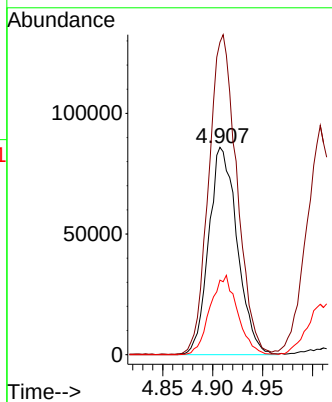
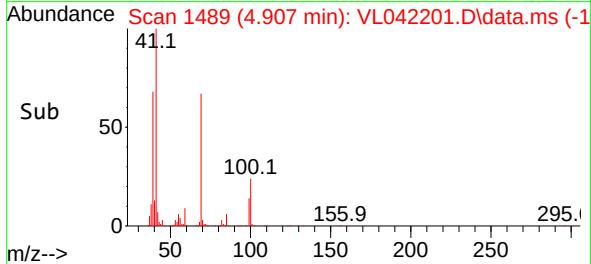
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



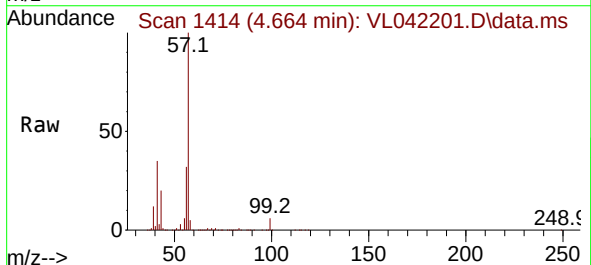
Tgt Ion: 69 Resp: 170312  
Ion Ratio Lower Upper  
69 100  
41 152.5 123.8 185.6  
100 37.0 28.4 42.6

Manual Integrations  
APPROVED

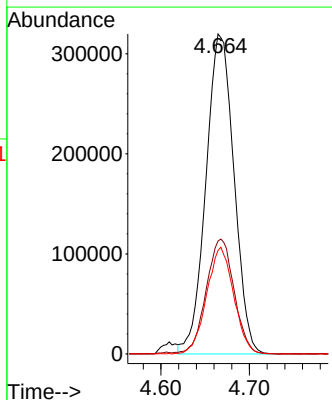
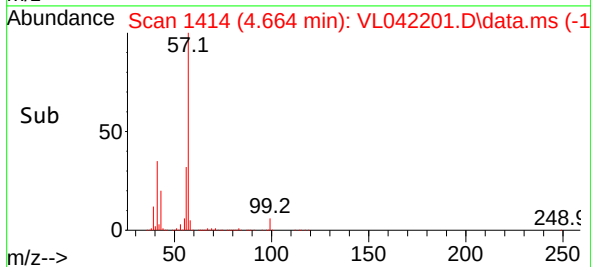
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

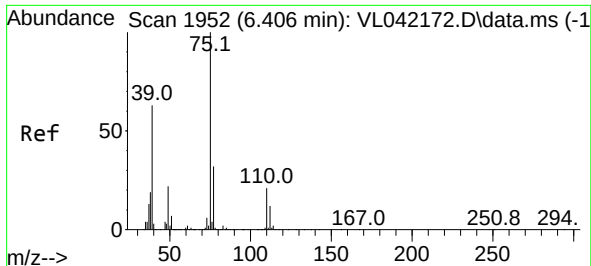


#44  
2,2,4-Trimethylpentane  
Concen: 9.143 ppbv  
RT: 4.664 min Scan# 1414  
Delta R.T. 0.029 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



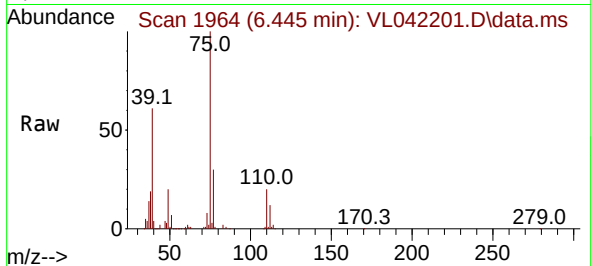
Tgt Ion: 57 Resp: 705253  
Ion Ratio Lower Upper  
57 100  
41 36.1 26.8 40.2  
56 32.2 25.6 38.4





#45  
 t-1,3-Dichloropropene  
 Concen: 9.167 ppbv  
 RT: 6.445 min Scan# 1952  
 Delta R.T. 0.039 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51

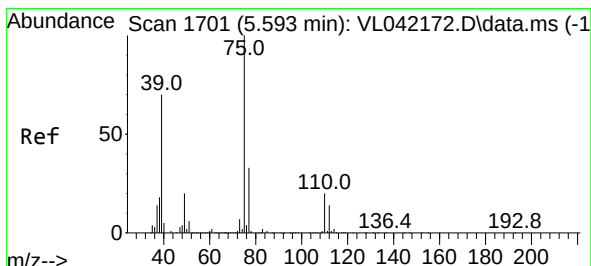
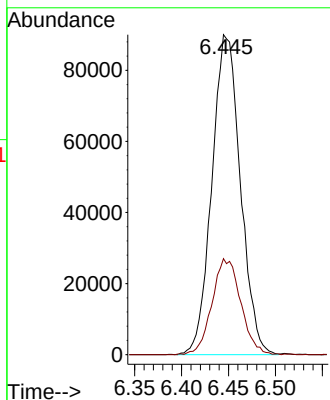
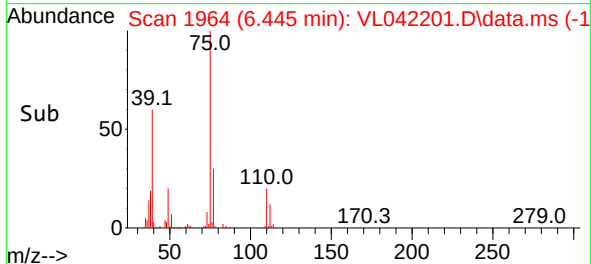
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



Tgt Ion: 75 Resp: 190040  
 Ion Ratio Lower Upper  
 75 100  
 77 30.0 26.0 39.0

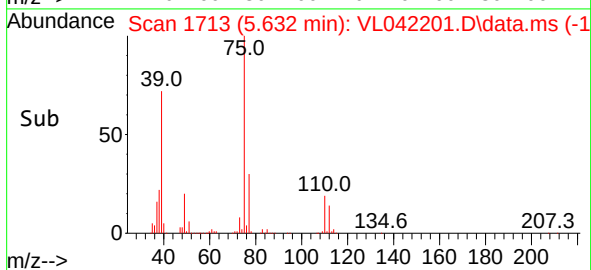
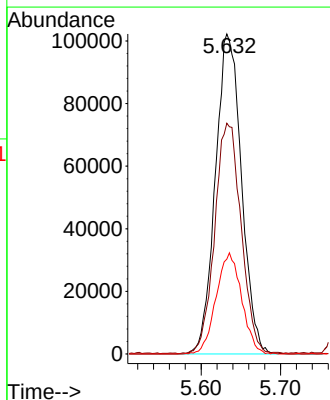
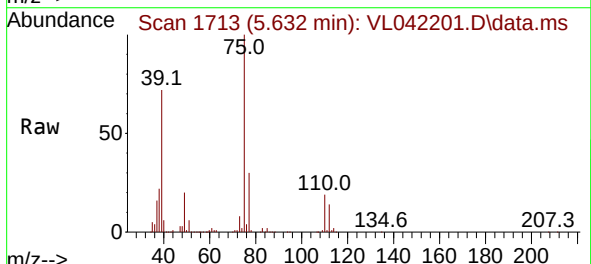
Manual Integrations  
 APPROVED

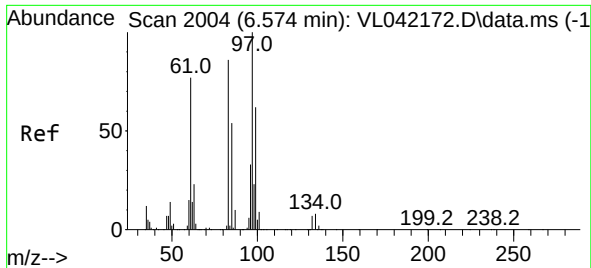
Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025



#46  
 cis-1,3-Dichloropropene  
 Concen: 9.158 ppbv  
 RT: 5.632 min Scan# 1713  
 Delta R.T. 0.039 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51

Tgt Ion: 75 Resp: 232713  
 Ion Ratio Lower Upper  
 75 100  
 39 72.0 55.8 83.6  
 77 29.7 26.0 39.0





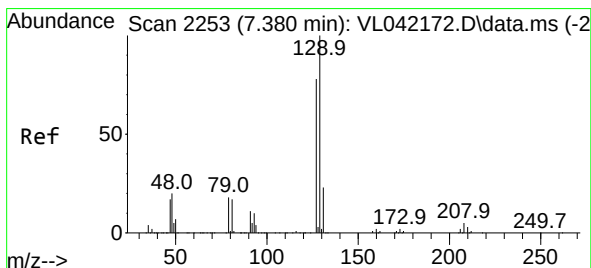
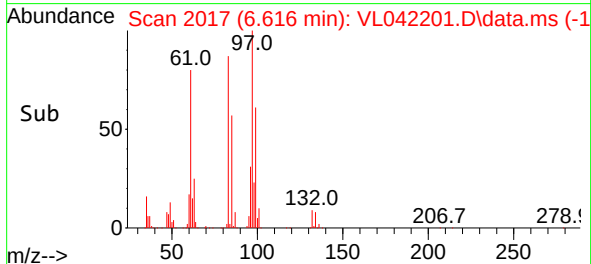
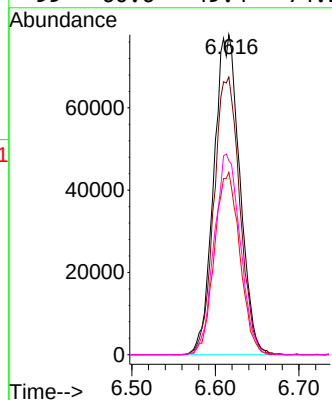
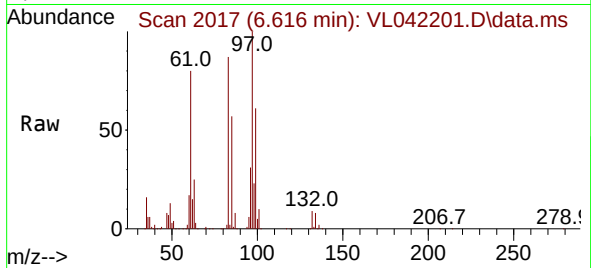
#47  
1,1,2-Trichloroethane  
Concen: 9.582 ppbv m  
RT: 6.616 min Scan# 2004  
Delta R.T. 0.042 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 97 Resp: 16837  
Ion Ratio Lower Upper  
97 100  
83 86.8 69.2 103.8  
85 57.0 43.1 64.7  
99 60.6 49.4 74.2

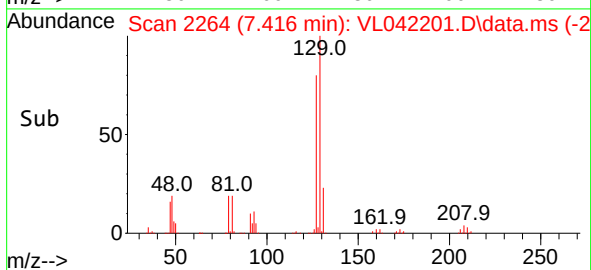
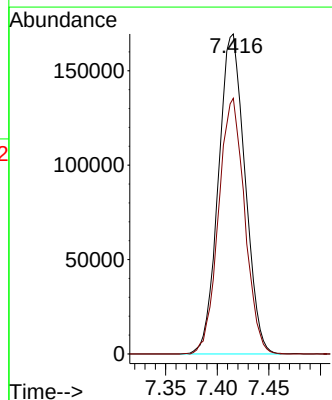
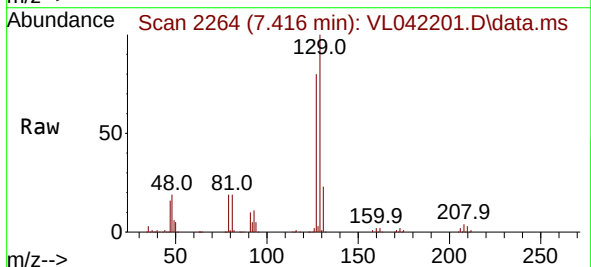
Manual Integrations  
APPROVED

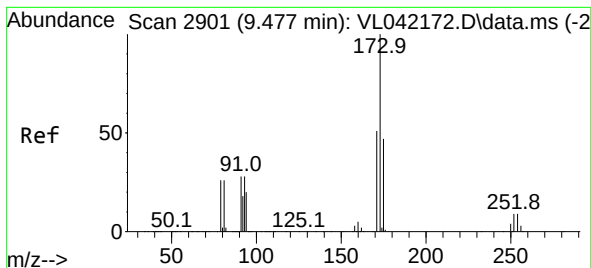
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#48  
Dibromochloromethane  
Concen: 10.186 ppbv  
RT: 7.416 min Scan# 2264  
Delta R.T. 0.036 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion:129 Resp: 303330  
Ion Ratio Lower Upper  
129 100  
127 78.5 39.1 117.2





#49

Bromoform

Concen: 9.780 ppbv

RT: 9.503 min Scan# 2901

Delta R.T. 0.026 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Instrument :

MSVOA\_L

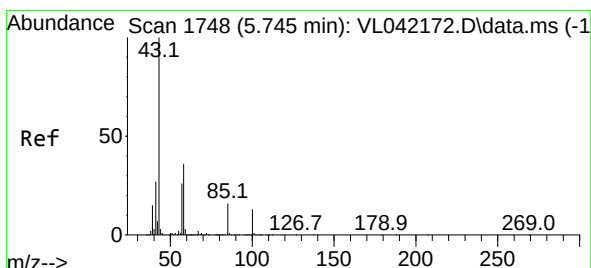
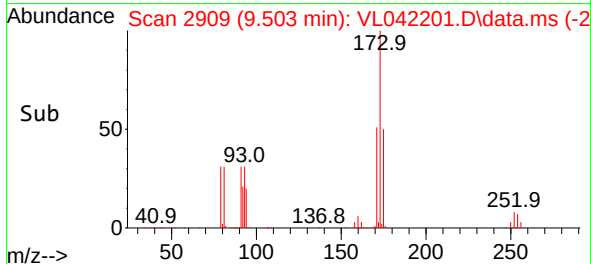
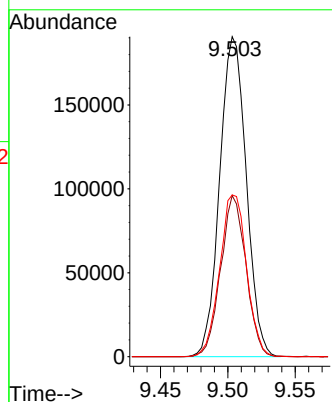
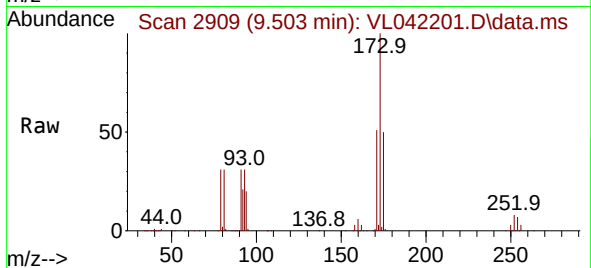
ClientSampleId :

VSTDCCC010

Tgt Ion:173 Resp: 261484  
Ion Ratio Lower Upper  
173 100  
175 47.9 38.6 57.8  
171 51.3 41.8 62.6

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#50

4-Methyl-2-Pentanone

Concen: 8.261 ppbv

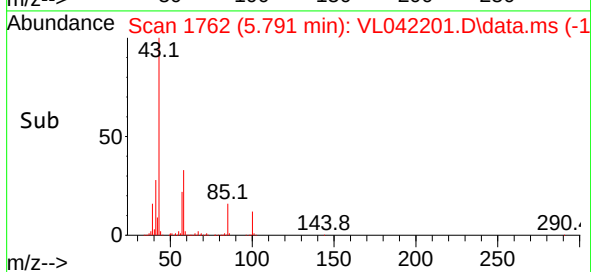
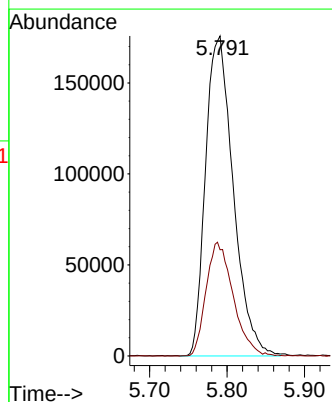
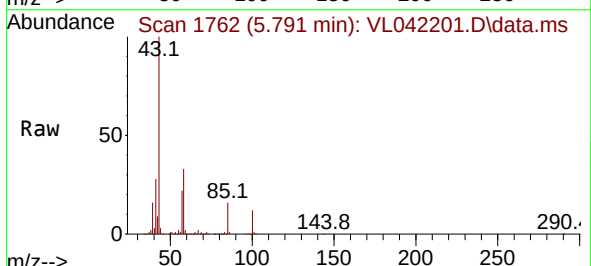
RT: 5.791 min Scan# 1762

Delta R.T. 0.045 min

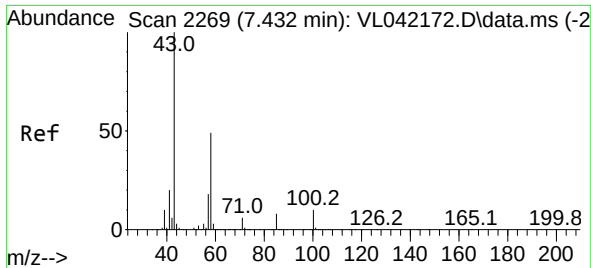
Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Tgt Ion: 43 Resp: 437050  
Ion Ratio Lower Upper  
43 100  
58 34.8 29.0 43.6

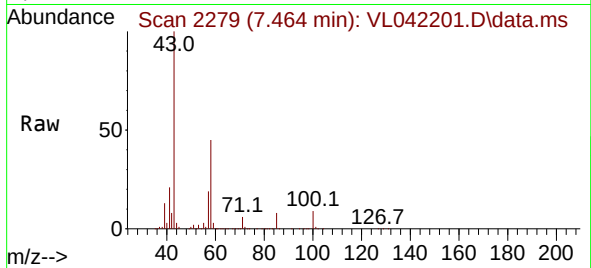






#51  
2-Hexanone  
Concen: 8.093 ppbv  
RT: 7.464 min Scan# 21  
Delta R.T. 0.032 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

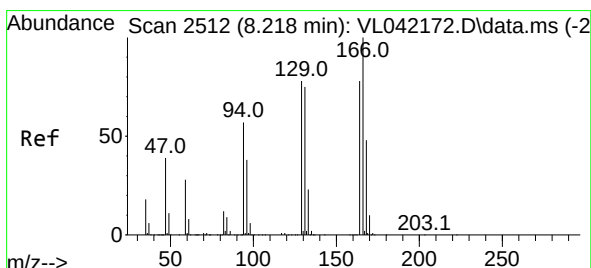
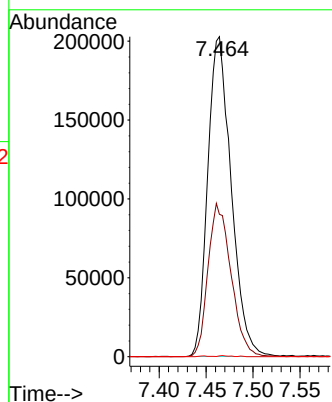
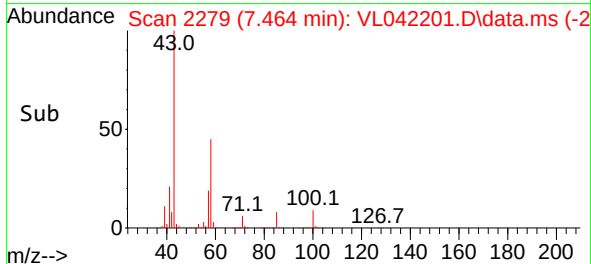
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 43 Resp: 35162  
Ion Ratio Lower Upper  
43 100  
58 47.0 39.7 59.5  
98 0.3 0.1 0.1

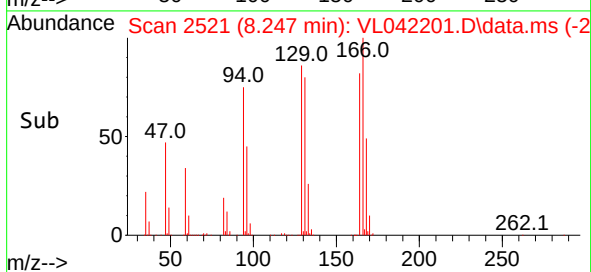
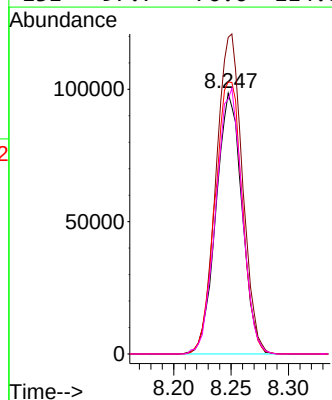
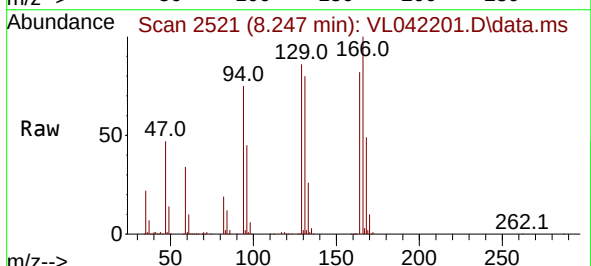
Manual Integrations  
APPROVED

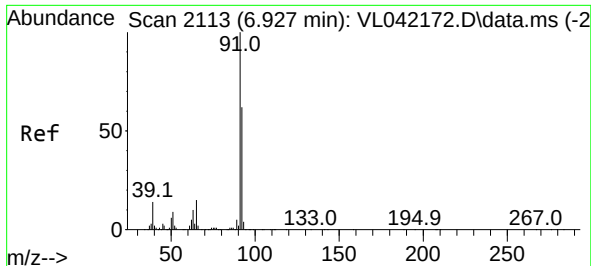
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#52  
Tetrachloroethene  
Concen: 8.574 ppbv  
RT: 8.247 min Scan# 2521  
Delta R.T. 0.029 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion:164 Resp: 155203  
Ion Ratio Lower Upper  
164 100  
166 121.4 102.5 153.7  
129 104.3 79.8 119.8  
131 97.7 76.6 114.8





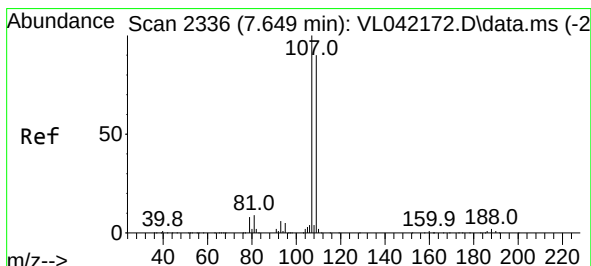
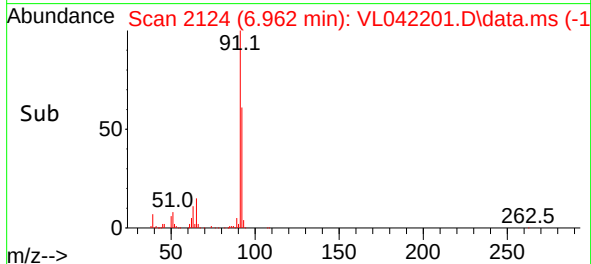
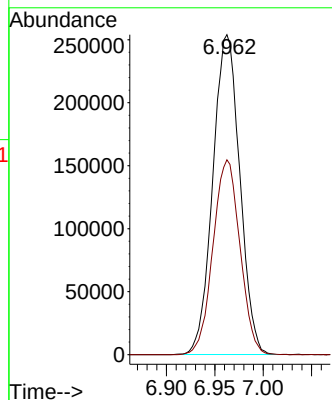
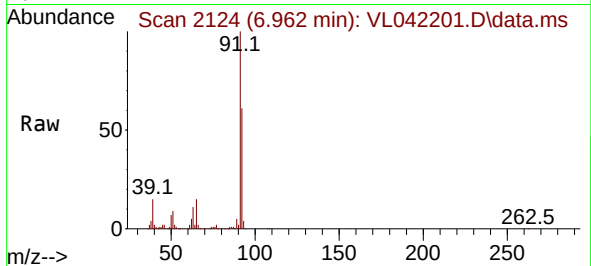
#53  
Toluene  
Concen: 9.106 ppbv  
RT: 6.962 min Scan# 2113  
Delta R.T. 0.036 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 49271  
Ion Ratio Lower Upper  
91 100  
92 60.9 48.4 72.6

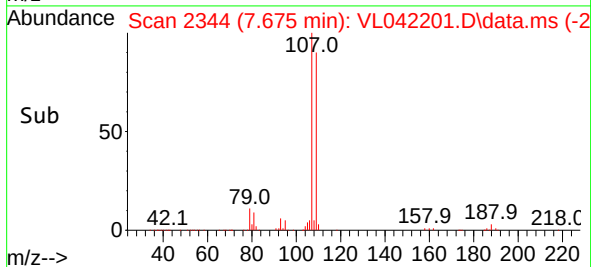
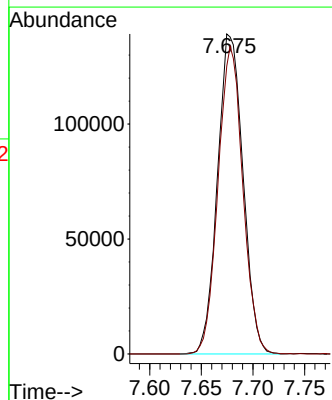
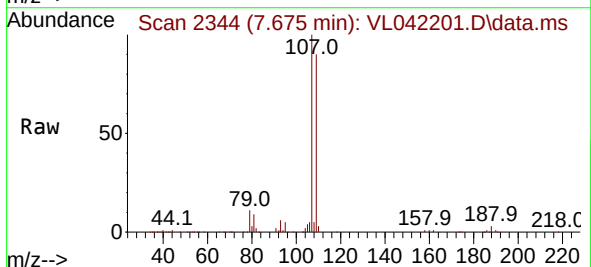
Manual Integrations  
APPROVED

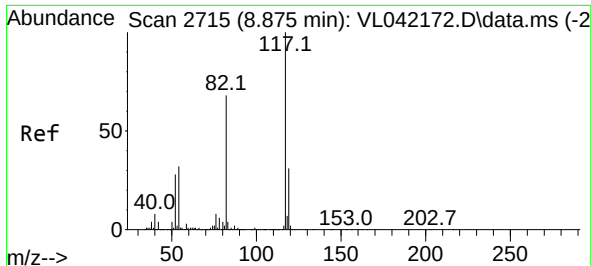
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#54  
1,2-Dibromoethane  
Concen: 9.771 ppbv  
RT: 7.675 min Scan# 2344  
Delta R.T. 0.026 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

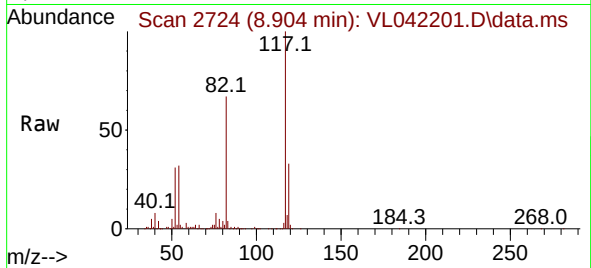
Tgt Ion:107 Resp: 239347  
Ion Ratio Lower Upper  
107 100  
109 90.0 72.2 108.4





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.904 min Scan# 2715  
Delta R.T. 0.029 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

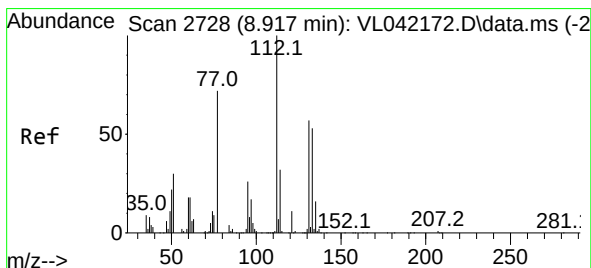
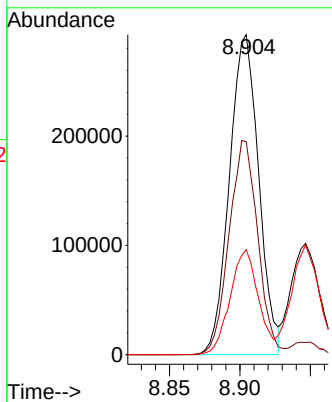
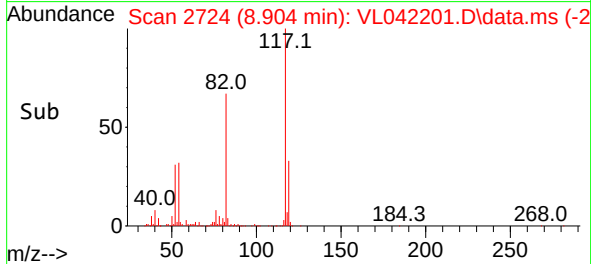
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



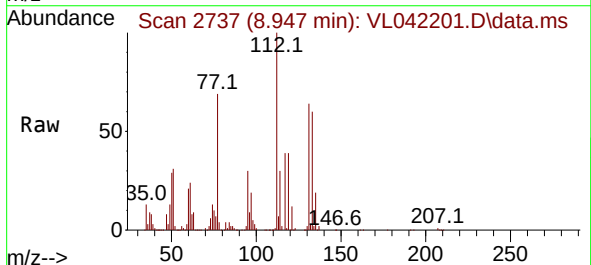
Tgt Ion:117 Resp: 42467  
Ion Ratio Lower Upper  
117 100  
82 69.3 55.8 83.6  
119 31.7 25.5 38.3

Manual Integrations  
APPROVED

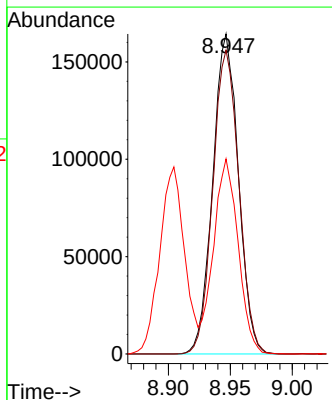
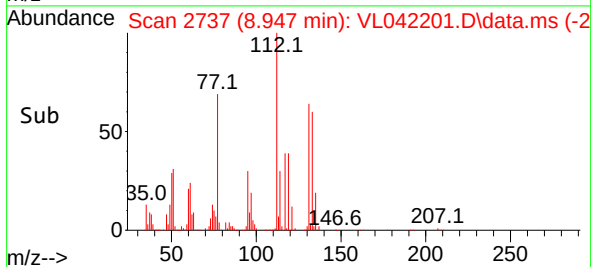
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

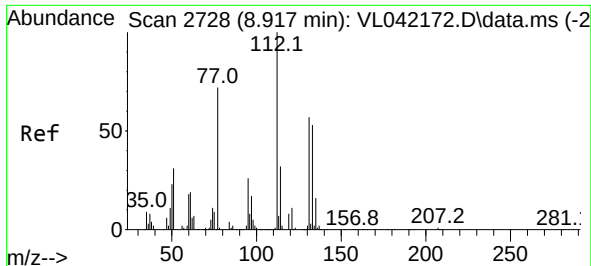


#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.136 ppbv  
RT: 8.947 min Scan# 2737  
Delta R.T. 0.029 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



Tgt Ion:131 Resp: 236930  
Ion Ratio Lower Upper  
131 100  
133 96.5 76.6 114.8  
119 60.1 49.8 74.6





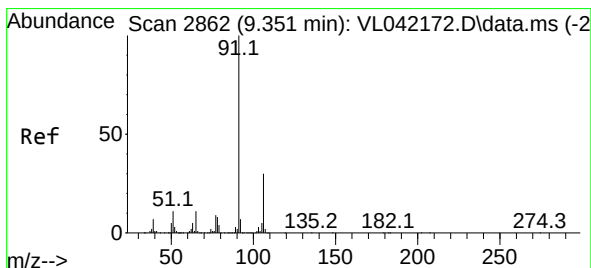
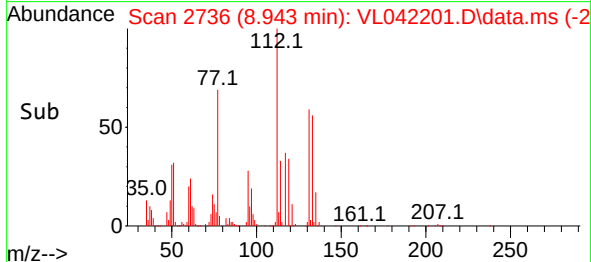
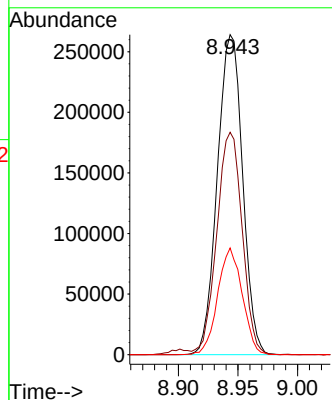
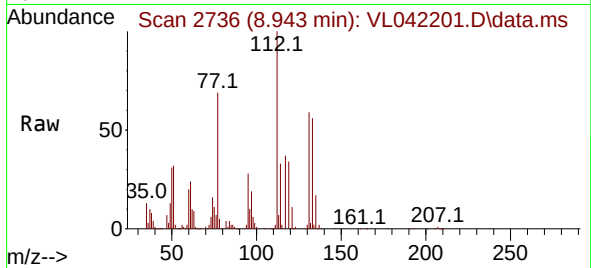
#57  
Chlorobenzene  
Concen: 9.669 ppbv  
RT: 8.943 min Scan# 21  
Delta R.T. 0.026 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:112 Resp: 38947  
Ion Ratio Lower Upper  
112 100  
77 69.5 58.2 87.2  
114 33.4 29.1 35.5

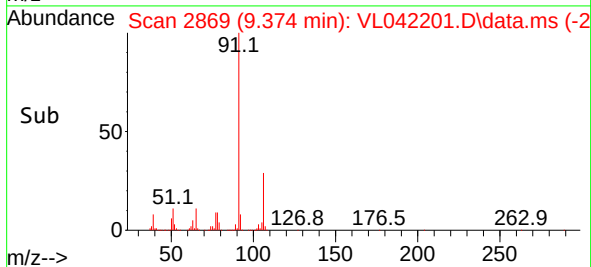
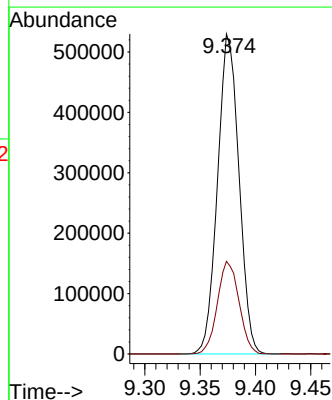
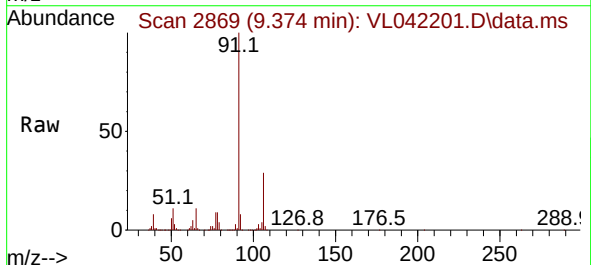
Manual Integrations  
APPROVED

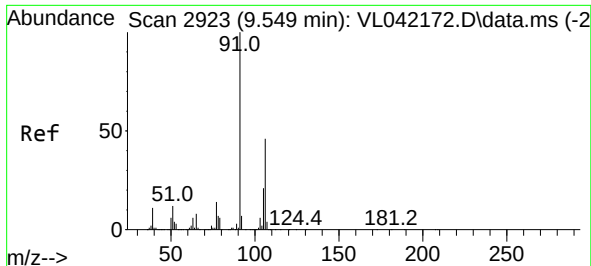
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#58  
Ethyl Benzene  
Concen: 9.446 ppbv  
RT: 9.374 min Scan# 2869  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 91 Resp: 712533  
Ion Ratio Lower Upper  
91 100  
106 29.0 24.2 36.2





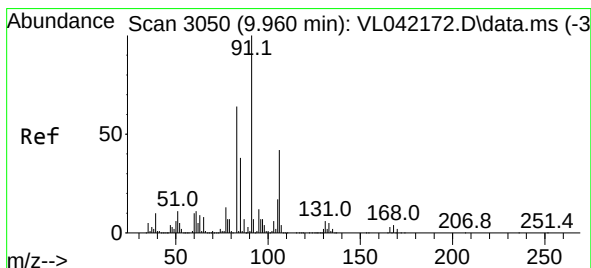
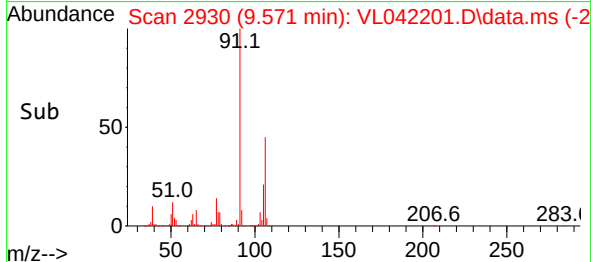
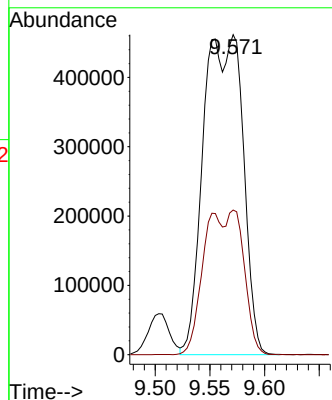
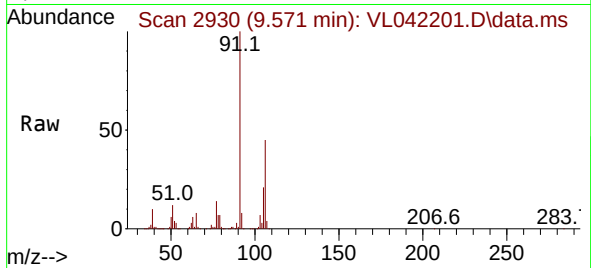
#59  
m/p-Xylene  
Concen: 19.336 ppbv m  
RT: 9.571 min Scan# 2923  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 1164678  
Ion Ratio Lower Upper  
91 100  
106 45.2 36.4 54.6

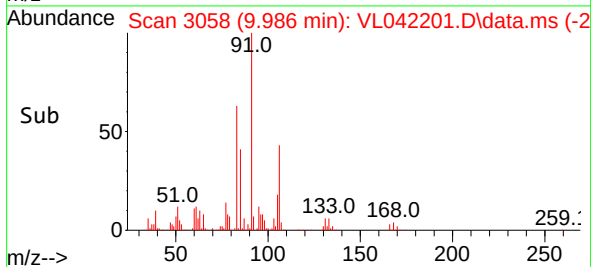
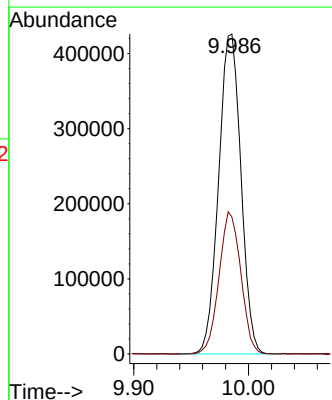
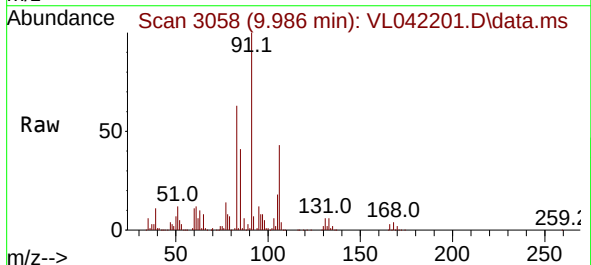
Manual Integrations  
APPROVED

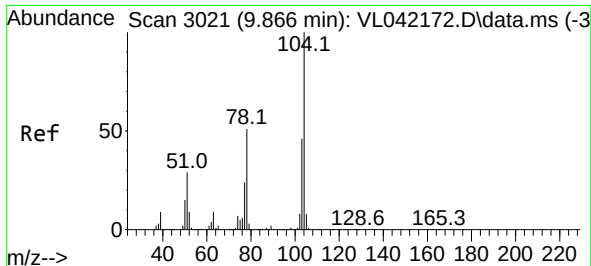
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#60  
o-Xylene  
Concen: 9.526 ppbv  
RT: 9.986 min Scan# 3058  
Delta R.T. 0.026 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 91 Resp: 575224  
Ion Ratio Lower Upper  
91 100  
106 43.3 20.8 62.5





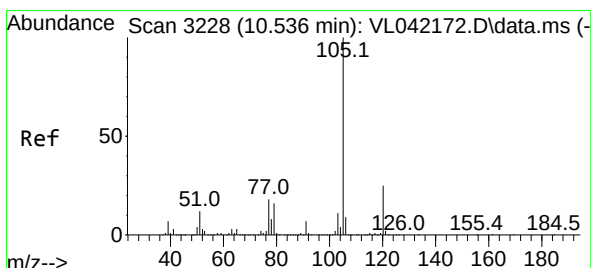
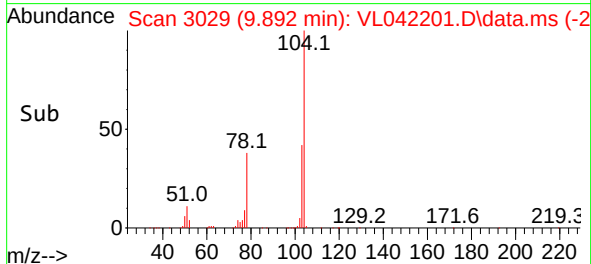
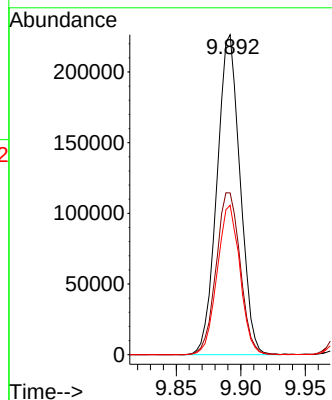
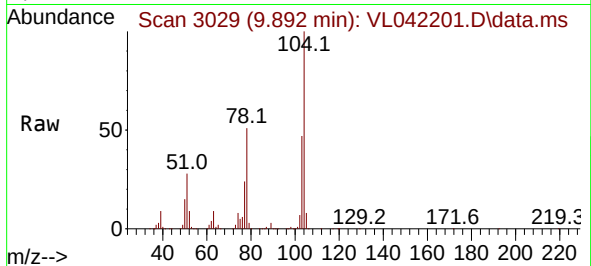
#61  
Styrene  
Concen: 9.424 ppbv  
RT: 9.892 min Scan# 3021  
Delta R.T. 0.026 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:104 Resp: 281518  
Ion Ratio Lower Upper  
104 100  
78 52.6 41.8 62.6  
103 46.2 37.0 55.4

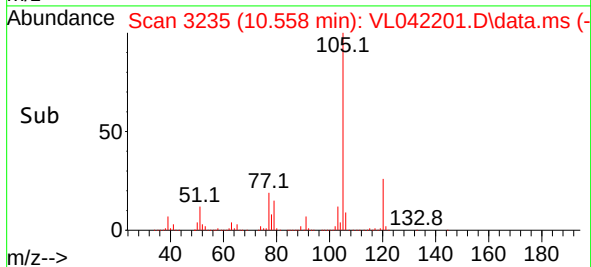
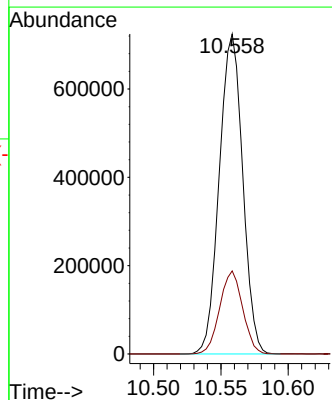
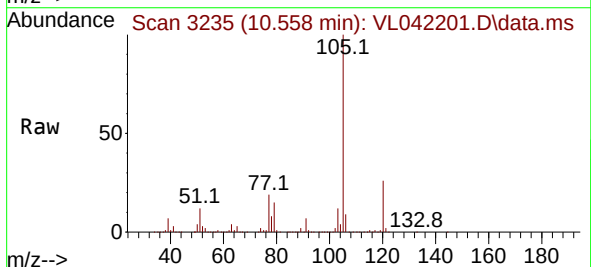
Manual Integrations  
APPROVED

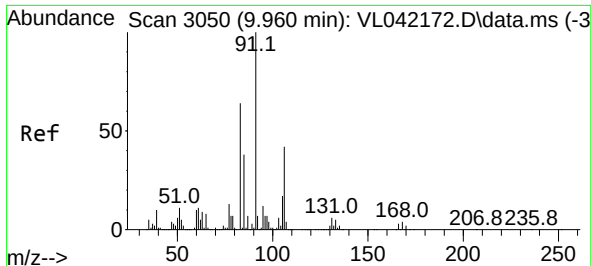
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#62  
Isopropylbenzene  
Concen: 9.689 ppbv  
RT: 10.558 min Scan# 3235  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

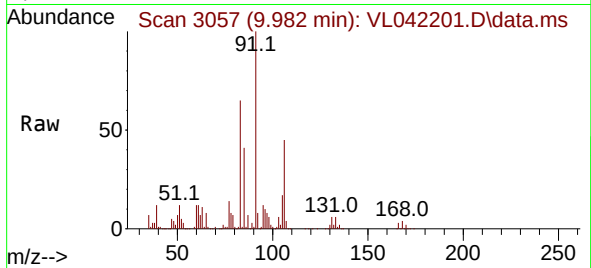
Tgt Ion:105 Resp: 874894  
Ion Ratio Lower Upper  
105 100  
120 25.4 19.9 29.9





#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.518 ppbv  
RT: 9.982 min Scan# 3050  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

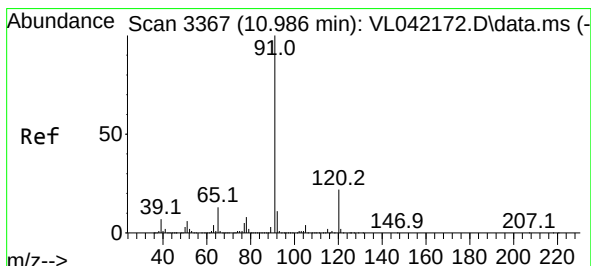
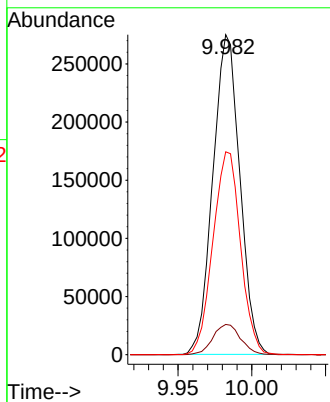
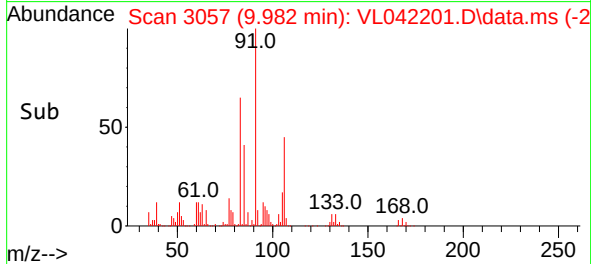
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



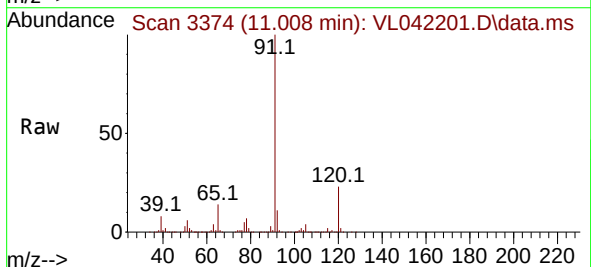
Tgt Ion: 83 Resp: 34919  
Ion Ratio Lower Upper  
83 100  
131 9.8 4.8 14.4  
85 64.9 32.5 97.5

Manual Integrations  
APPROVED

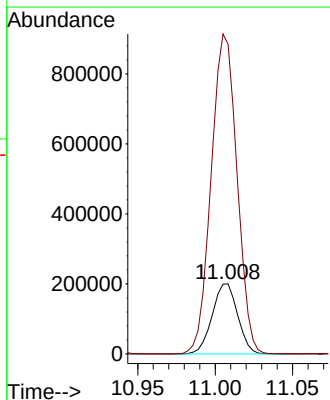
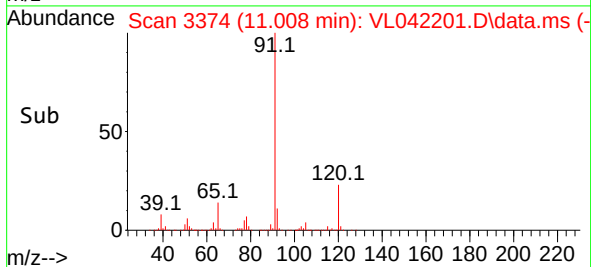
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

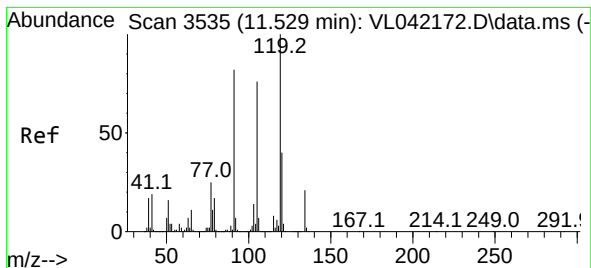


#64  
n-propylbenzene  
Concen: 9.826 ppbv  
RT: 11.008 min Scan# 3374  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



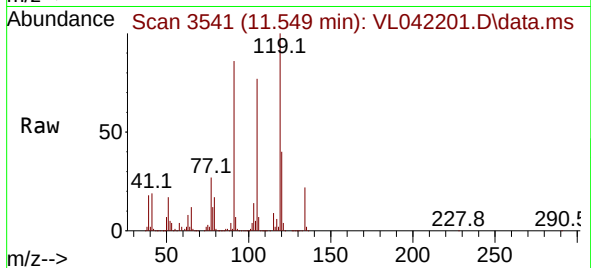
Tgt Ion:120 Resp: 228400  
Ion Ratio Lower Upper  
120 100  
91 463.7 376.9 565.3





#65  
tert-Butylbenzene  
Concen: 9.526 ppbv  
RT: 11.549 min Scan# 3541  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

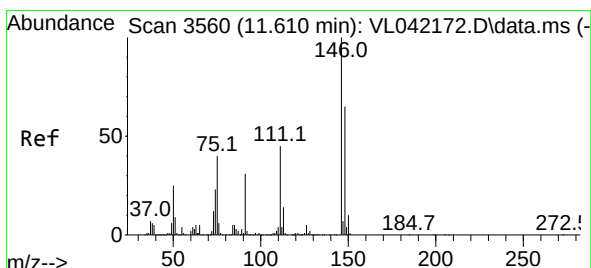
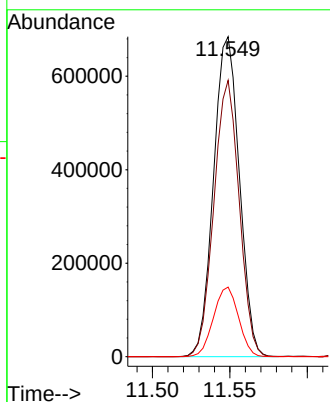
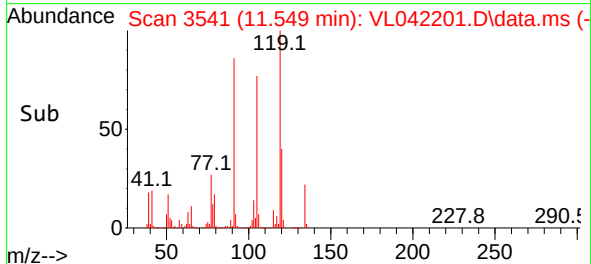
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



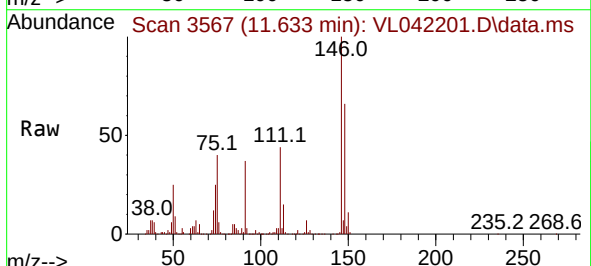
Tgt Ion: 119 Resp: 79548  
Ion Ratio Lower Upper  
119 100  
91 84.5 66.0 99.0  
134 21.1 16.7 25.1

Manual Integrations  
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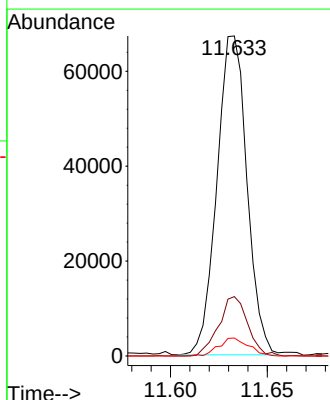
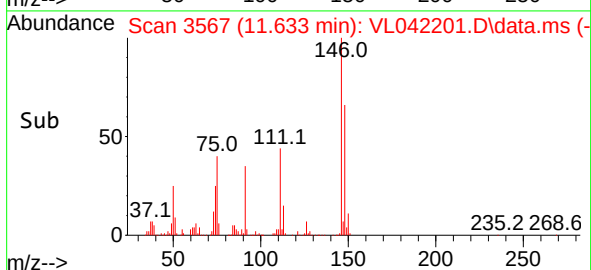
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



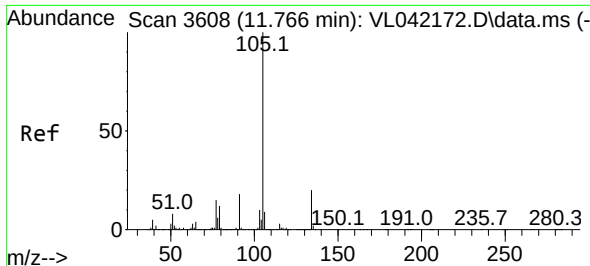
#66  
Benzyl Chloride  
Concen: 8.185 ppbv  
RT: 11.633 min Scan# 3567  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



Tgt Ion: 91 Resp: 72526  
Ion Ratio Lower Upper  
91 100  
126 18.0 13.8 20.6  
128 5.6 4.5 6.7

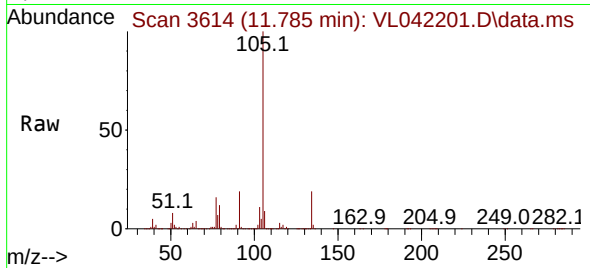






#67  
 sec-Butylbenzene  
 Concen: 9.677 ppbv  
 RT: 11.785 min Scan# 3184  
 Delta R.T. 0.019 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51

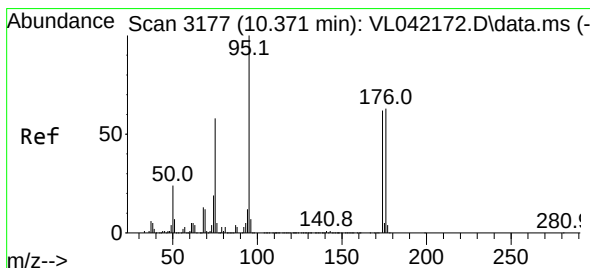
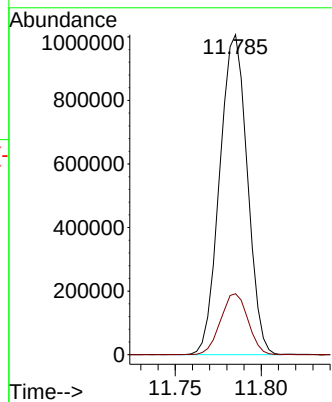
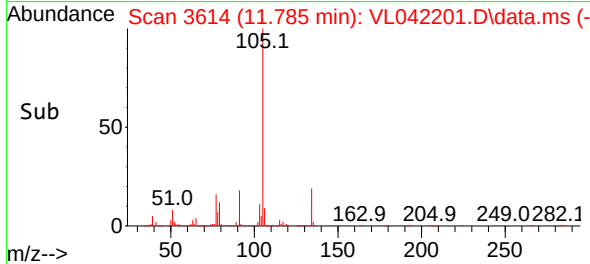
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



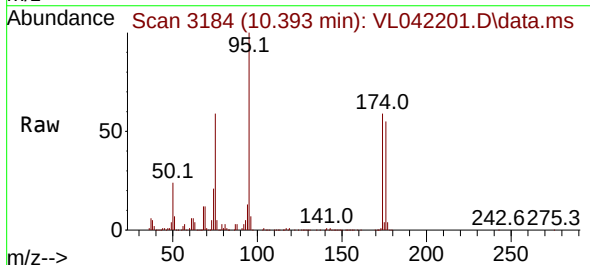
Tgt Ion: 105 Resp: 112326  
 Ion Ratio Lower Upper  
 105 100  
 134 19.0 15.5 23.3

Manual Integrations  
 APPROVED

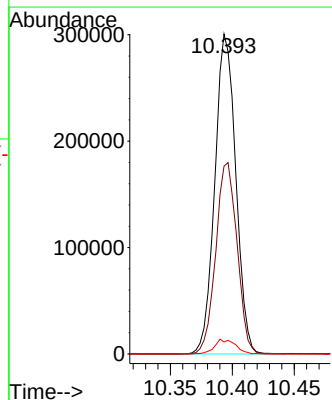
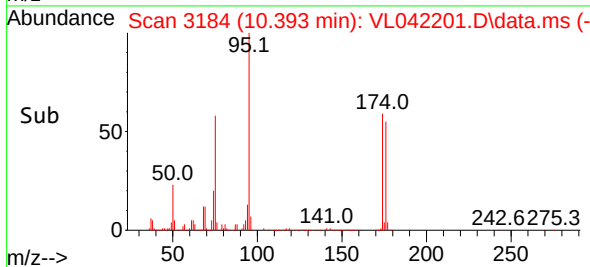
Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025

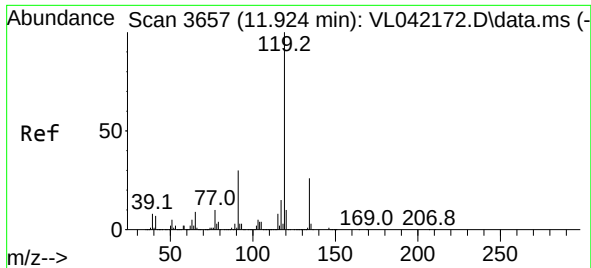


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.190 ppbv  
 RT: 10.393 min Scan# 3184  
 Delta R.T. 0.023 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51



Tgt Ion: 95 Resp: 355372  
 Ion Ratio Lower Upper  
 95 100  
 174 60.6 50.6 76.0  
 175 4.6 3.8 5.6





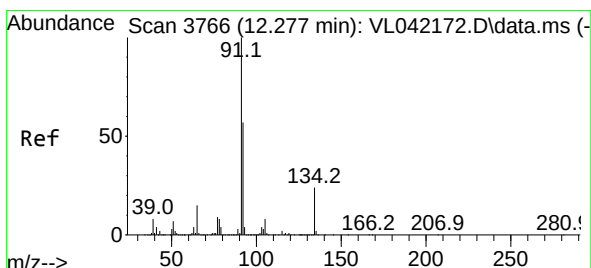
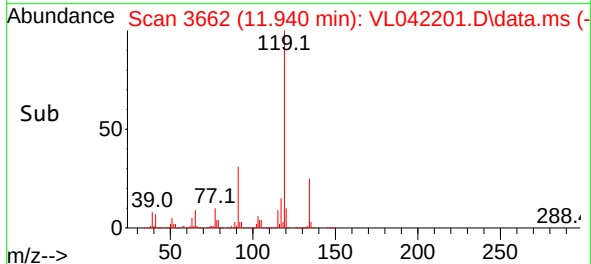
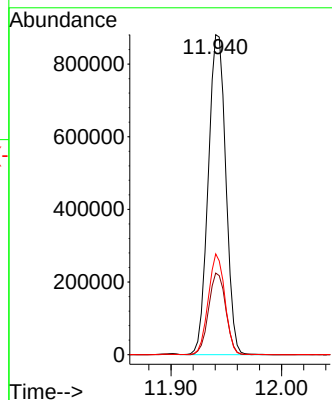
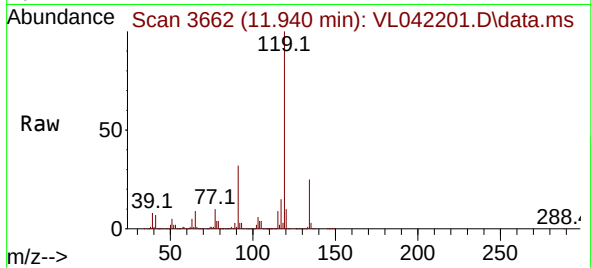
#69  
p-Isopropyltoluene  
Concen: 9.684 ppbv  
RT: 11.940 min Scan# 3662  
Delta R.T. 0.016 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:119 Resp: 967912  
Ion Ratio Lower Upper  
119 100  
134 25.1 20.4 30.6  
91 30.0 23.7 35.5

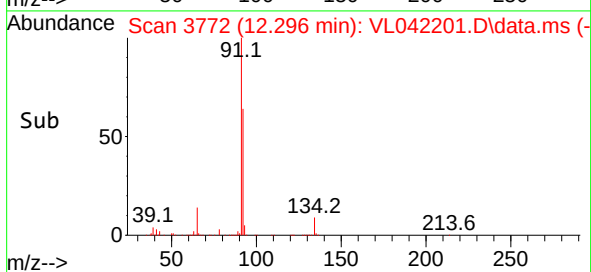
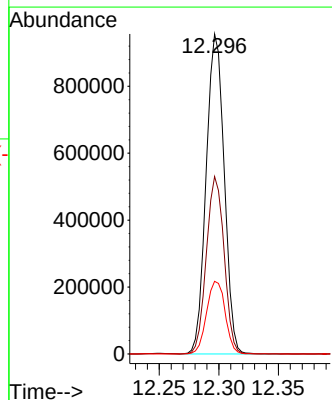
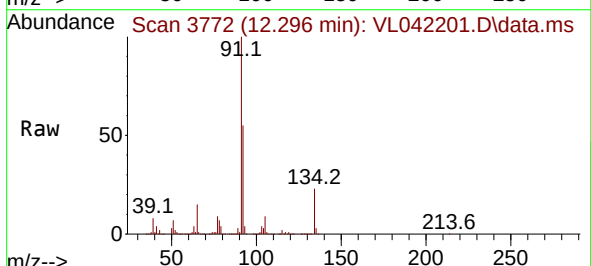
Manual Integrations  
APPROVED

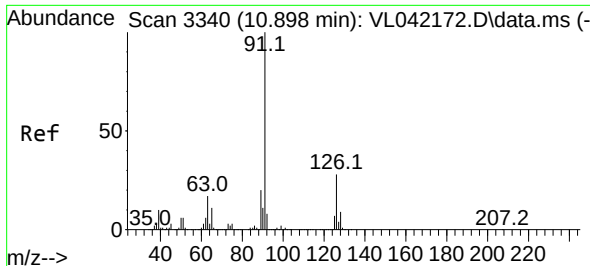
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#70  
n-Butylbenzene  
Concen: 9.850 ppbv  
RT: 12.296 min Scan# 3772  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

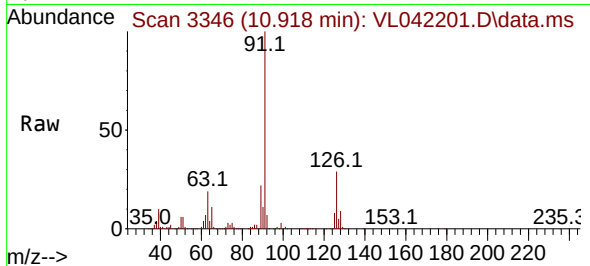
Tgt Ion: 91 Resp: 1006907  
Ion Ratio Lower Upper  
91 100  
92 54.8 44.9 67.3  
134 23.4 19.2 28.8





#71  
2-Chlorotoluene  
Concen: 9.652 ppbv  
RT: 10.918 min Scan# 31  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

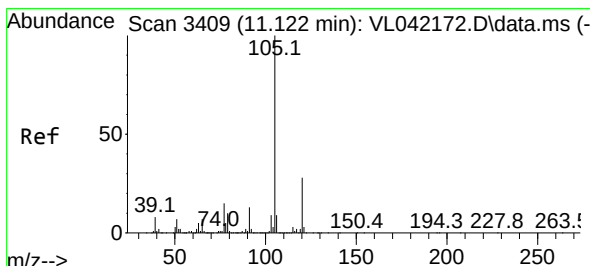
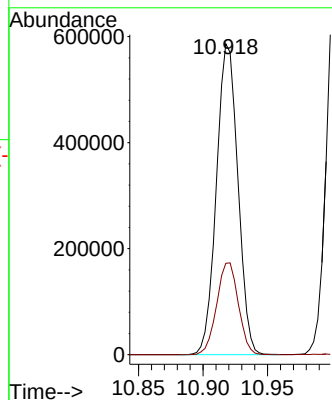
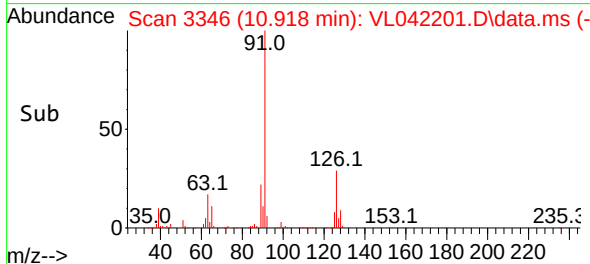
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



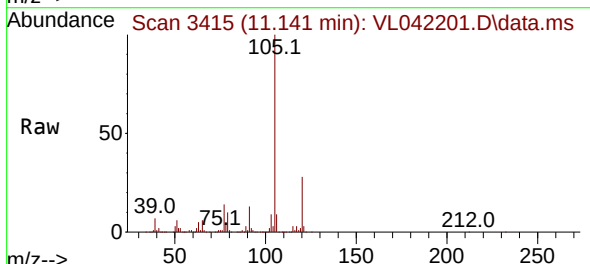
Tgt Ion: 91 Resp: 676390  
Ion Ratio Lower Upper  
91 100  
126 29.8 11.6 46.4

Manual Integrations  
APPROVED

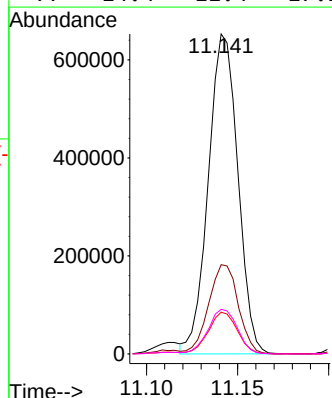
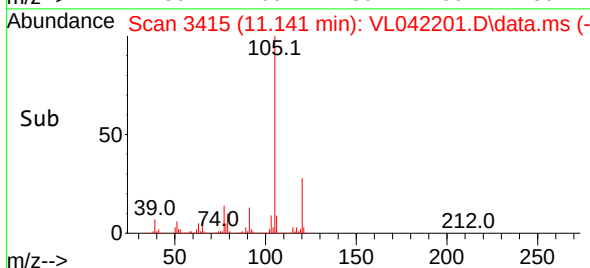
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

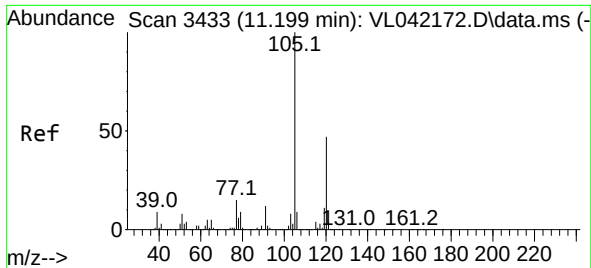


#72  
4-Ethyltoluene  
Concen: 9.775 ppbv  
RT: 11.141 min Scan# 3415  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



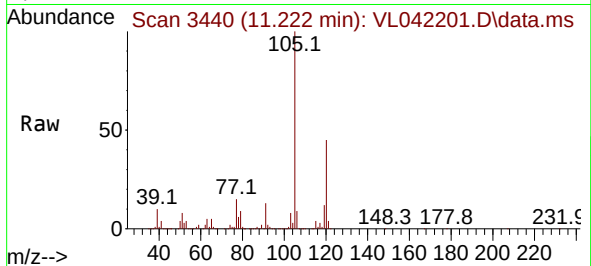
Tgt Ion:105 Resp: 734909  
Ion Ratio Lower Upper  
105 100  
120 29.2 23.4 35.0  
91 13.3 10.3 15.5  
77 14.4 11.4 17.2





#73  
1,3,5-Trimethylbenzene  
Concen: 9.709 ppbv  
RT: 11.222 min Scan# 3433  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

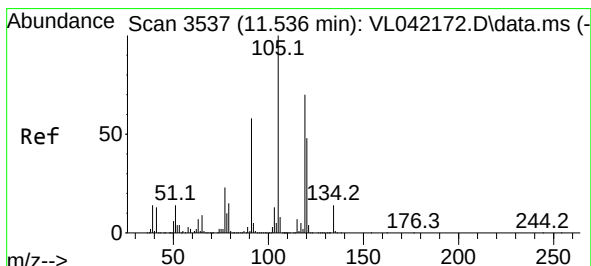
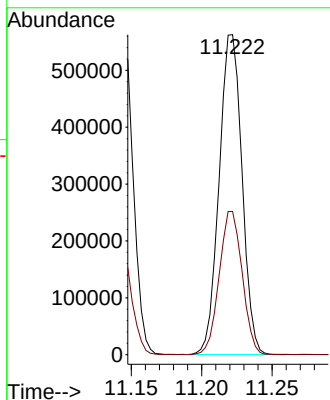
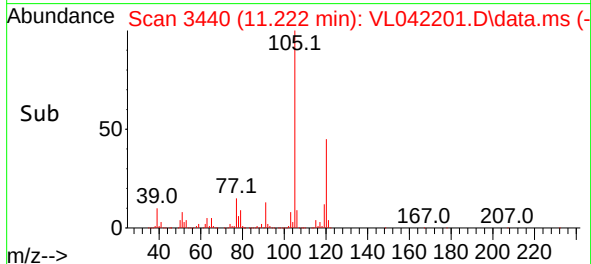
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



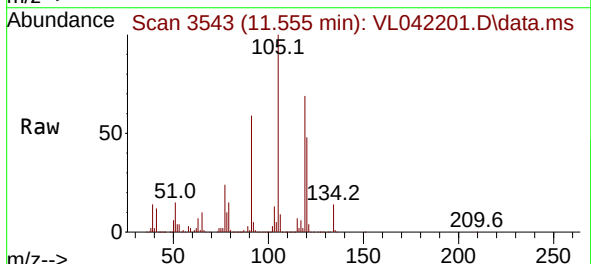
Tgt Ion:105 Resp: 637499  
Ion Ratio Lower Upper  
105 100  
120 44.7 37.4 56.0

Manual Integrations  
APPROVED

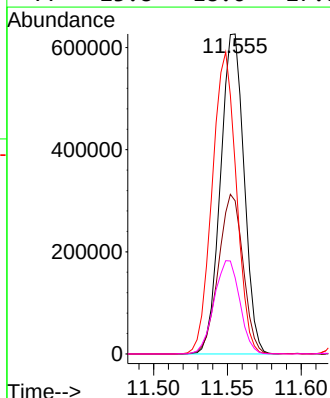
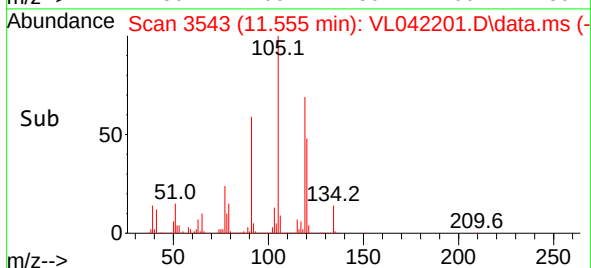
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

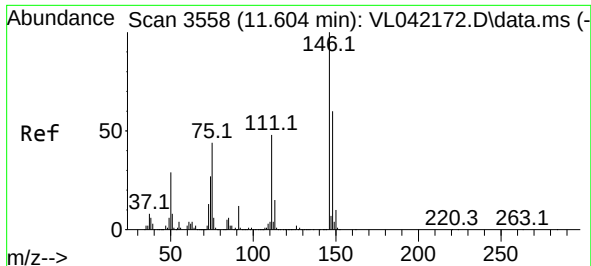


#74  
1,2,4-Trimethylbenzene  
Concen: 9.202 ppbv  
RT: 11.555 min Scan# 3543  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



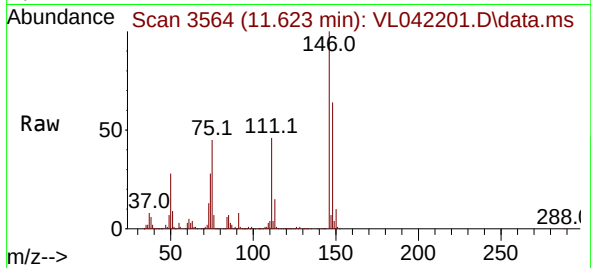
Tgt Ion:105 Resp: 696079  
Ion Ratio Lower Upper  
105 100  
120 47.8 38.6 58.0  
91 59.0 46.2 69.2  
77 23.8 18.6 27.8





#75  
1,3-Dichlorobenzene  
Concen: 9.895 ppbv  
RT: 11.623 min Scan# 3564  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

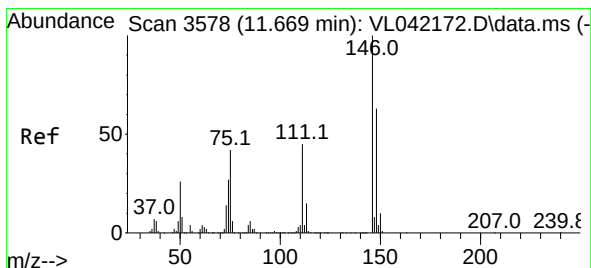
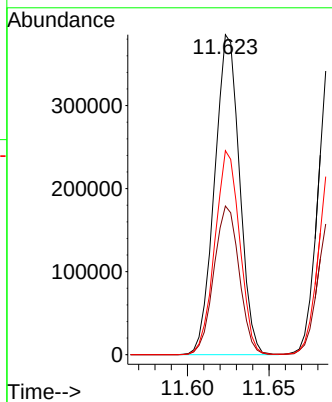
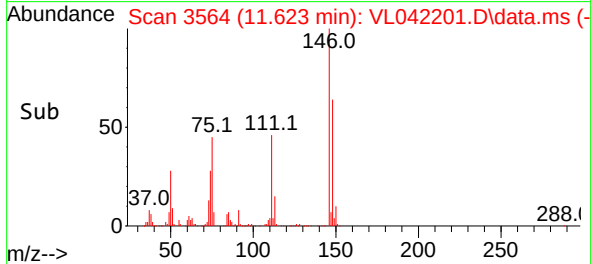
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



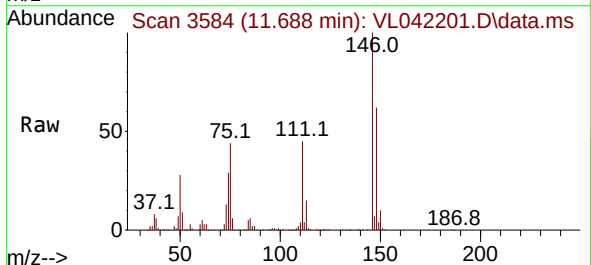
Tgt Ion:146 Resp: 410540  
Ion Ratio Lower Upper  
146 100  
111 47.1 23.8 71.2  
148 63.5 31.9 95.9

Manual Integrations  
APPROVED

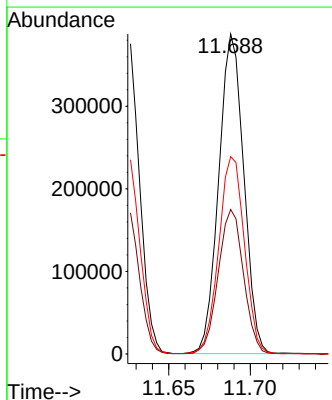
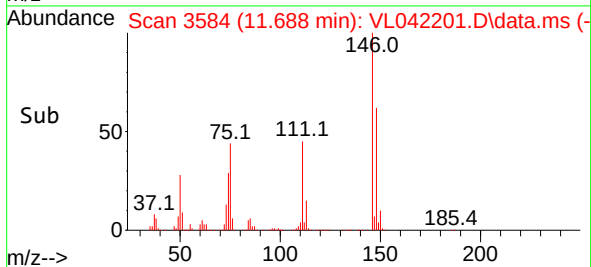
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

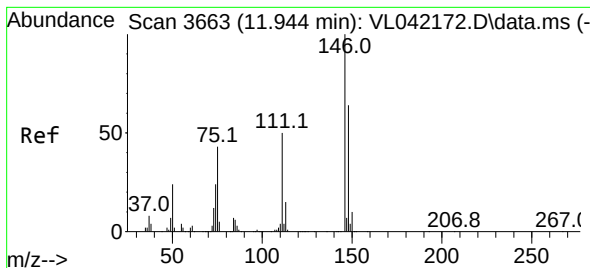


#76  
1,4-Dichlorobenzene  
Concen: 10.014 ppbv  
RT: 11.688 min Scan# 3584  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51



Tgt Ion:146 Resp: 413478  
Ion Ratio Lower Upper  
146 100  
111 45.8 23.0 69.0  
148 63.5 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 9.887 ppbv

RT: 11.963 min Scan# 3

Delta R.T. 0.019 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Instrument :

MSVOA\_L

ClientSampleId :

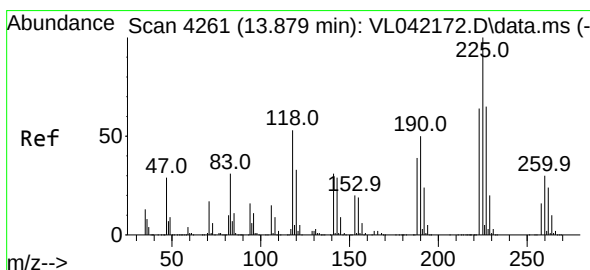
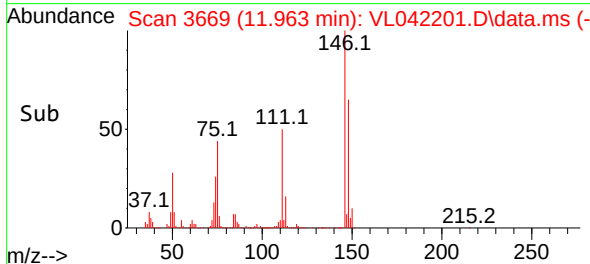
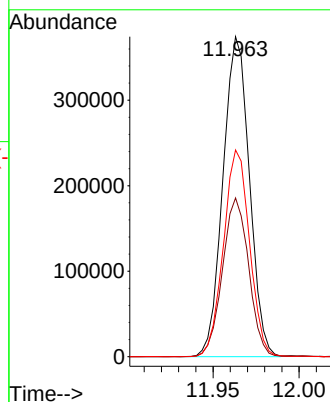
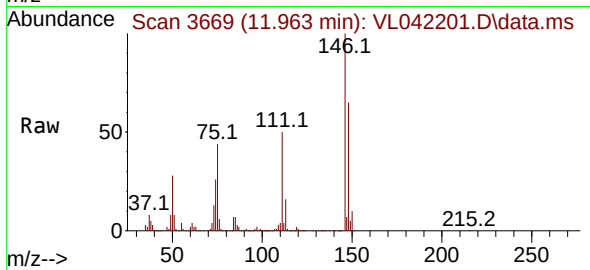
VSTDCCC010

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 399380 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 49.4  | 24.8  | 74.3   |
| 148       | 64.0  | 31.6  | 94.8   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.395 ppbv

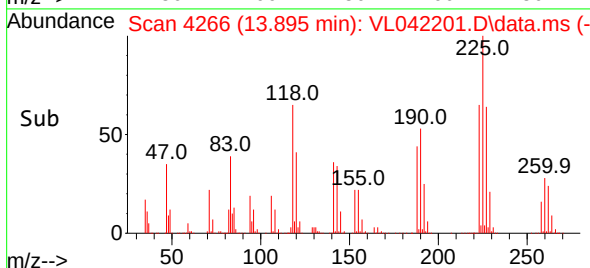
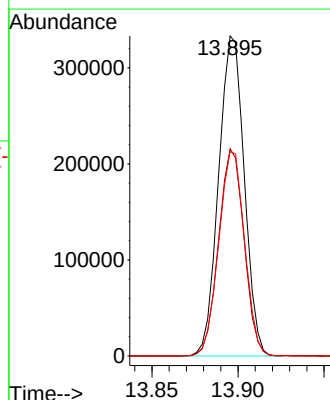
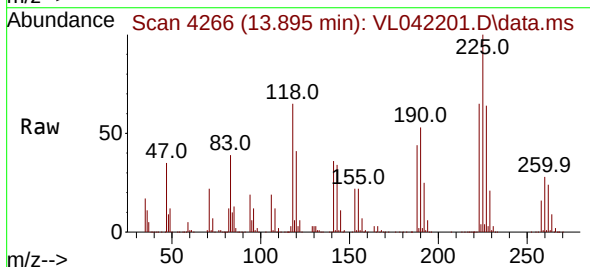
RT: 13.895 min Scan# 4266

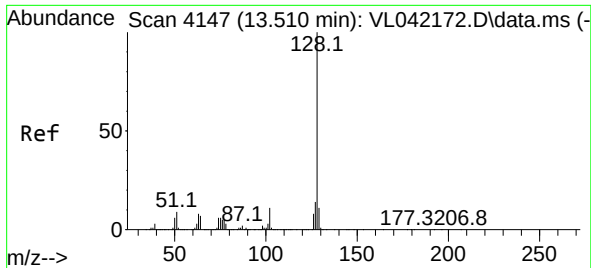
Delta R.T. 0.016 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 345217 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 64.1  | 50.6  | 76.0   |
| 227       | 64.4  | 51.2  | 76.8   |





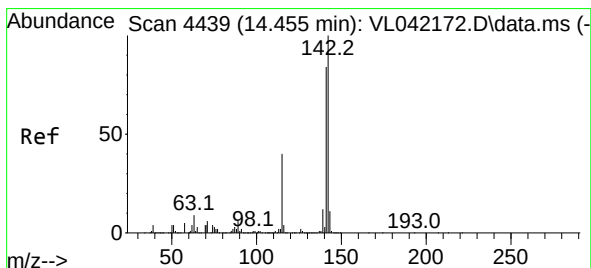
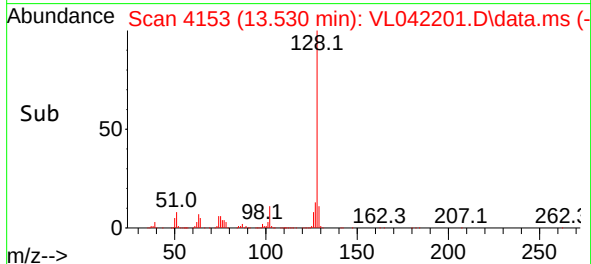
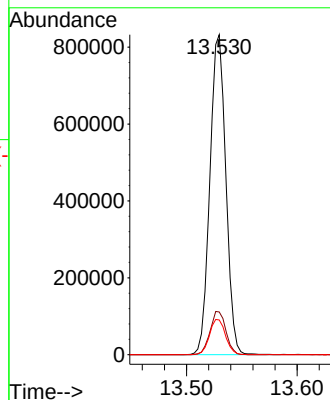
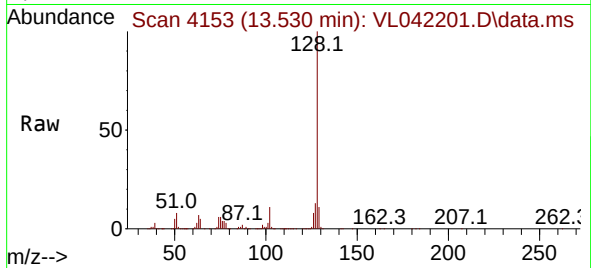
#79  
Naphthalene  
Concen: 10.072 ppbv  
RT: 13.530 min Scan# 4147  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:128 Resp: 833340  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.8 16.2  
129 10.9 9.0 13.4

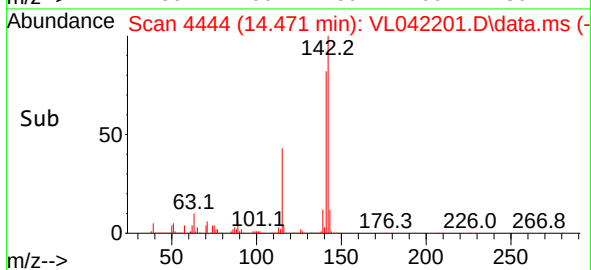
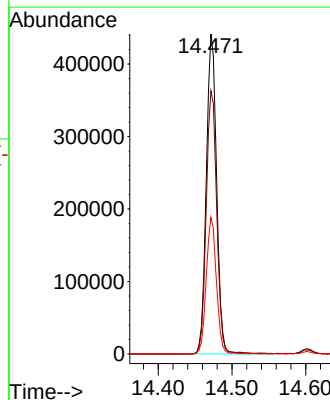
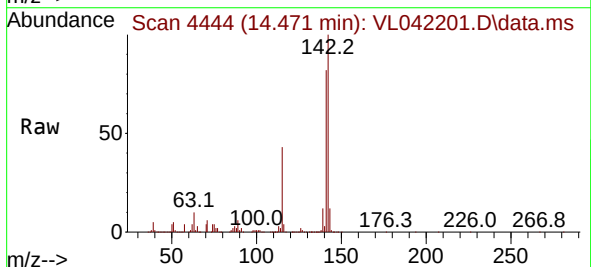
Manual Integrations  
APPROVED

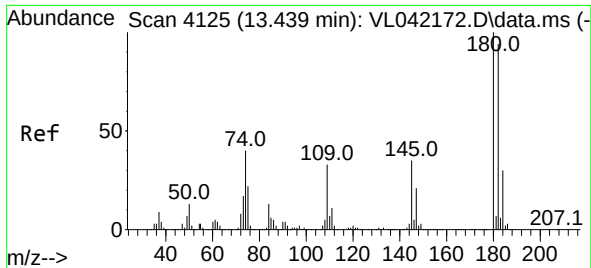
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#80  
Naphthalene,2-methyl-  
Concen: 10.537 ppbv  
RT: 14.471 min Scan# 4444  
Delta R.T. 0.016 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion:142 Resp: 427563  
Ion Ratio Lower Upper  
142 100  
141 84.2 66.3 99.5  
115 42.4 31.6 47.4





#81

1,2,4-Trichlorobenzene

Concen: 9.779 ppbv

RT: 13.455 min Scan# 41

Delta R.T. 0.016 min

Lab File: VL042201.D

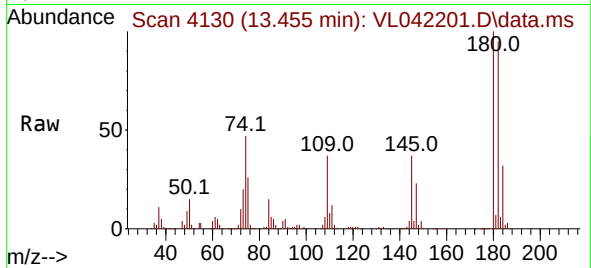
Acq: 31 Mar 2025 08:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010



Tgt Ion:180 Resp: 373220

Ion Ratio Lower Upper

180 100

182 95.8 75.1 112.7

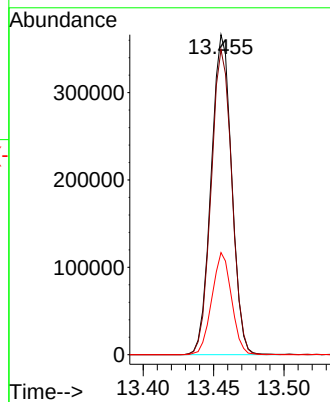
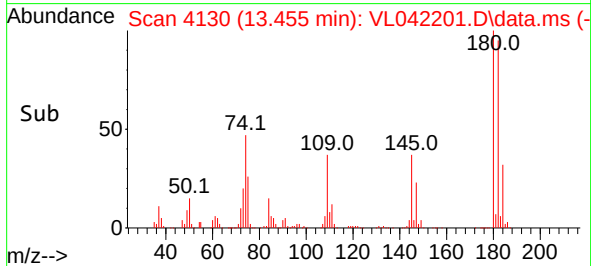
184 30.5 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025

Supervised By :Mahesh Dadoda 04/01/2025





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042201.D  
Acq On : 31 Mar 2025 08:51  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Apr 01 01:49:21 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   | 86    | 0.02     |
| 2 T  | Dichlorodifluoromethane     | 1.476 | 1.509  | -2.2  | 93    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.508 | 1.449  | 3.9   | 86    | 0.00     |
| 4    | Chloromethane               | 0.603 | 0.570  | 5.5   | 86    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.639 | 0.550  | 13.9  | 86    | 0.00     |
| 6 T  | Bromomethane                | 0.273 | 0.252  | 7.7   | 85    | 0.00     |
| 7    | Chloroethane                | 0.242 | 0.221  | 8.7   | 84    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.257 | 1.261  | -0.3  | 90    | 0.00     |
| 9 T  | Propene                     | 0.691 | 0.589  | 14.8  | 77    | 0.00     |
| 10 T | Heptane                     | 1.839 | 1.622  | 11.8  | 78    | 0.04     |
| 11 T | Trichlorofluoromethane      | 1.437 | 1.435  | 0.1   | 93    | 0.01     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.181 | 1.132  | 4.1   | 87    | 0.01     |
| 13   | Ethanol                     | 0.065 | 0.028# | 56.9# | 84    | 0.00     |
| 14 T | Bromoethene                 | 0.452 | 0.414  | 8.4   | 86    | 0.01     |
| 15 T | Acetone                     | 1.399 | 1.200  | 14.2  | 93    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.683 | 0.595  | 12.9  | 90    | 0.00     |
| 17   | tert-Butyl alcohol          | 1.742 | 1.563  | 10.3  | 83    | 0.01     |
| 18 T | 1,1-Dichloroethene          | 0.552 | 0.513  | 7.1   | 88    | 0.01     |
| 19 T | Isopropyl Alcohol           | 0.789 | 0.713  | 9.6   | 88    | 0.00     |
| 20 T | Methylene Chloride          | 0.521 | 0.420  | 19.4  | 83    | 0.01     |
| 21 T | Allyl Chloride              | 0.986 | 0.895  | 9.2   | 86    | 0.02     |
| 22 T | trans-1,2-Dichloroethene    | 0.638 | 0.569  | 10.8  | 83    | 0.02     |
| 23 T | Vinyl Acetate               | 0.605 | 0.514  | 15.0  | 89    | 0.01     |
| 24 T | 1,1-Dichloroethane          | 1.183 | 1.151  | 2.7   | 89    | 0.02     |
| 25 T | Ethyl Acetate               | 3.630 | 3.322  | 8.5   | 83    | 0.02     |
| 26 T | Hexane                      | 1.402 | 1.295  | 7.6   | 84    | 0.02     |
| 27 T | Carbon Disulfide            | 1.503 | 1.425  | 5.2   | 86    | 0.01     |
| 28 T | Methyl tert-Butyl Ether     | 0.873 | 1.103  | -26.3 | 115   | 0.02     |
| 29 T | Chloroform                  | 2.052 | 2.093  | -2.0  | 94    | 0.02     |
| 30 T | Cyclohexane                 | 1.217 | 1.115  | 8.4   | 83    | 0.03     |
| 31 T | cis-1,2-Dichloroethene      | 1.423 | 1.359  | 4.5   | 86    | 0.02     |
| 32 T | 1,1,1-Trichloroethane       | 2.349 | 2.228  | 5.2   | 93    | 0.02     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 84    | 0.03     |
| 34 T | 2-Butanone                  | 0.725 | 0.655  | 9.7   | 83    | 0.02     |
| 35 T | Carbon Tetrachloride        | 0.781 | 0.807  | -3.3  | 97    | 0.03     |
| 36 T | Benzene                     | 0.991 | 0.927  | 6.5   | 84    | 0.03     |
| 37 T | 1,2-Dichloroethane          | 0.568 | 0.593  | -4.4  | 93    | 0.02     |
| 38 T | Trichloroethene             | 0.414 | 0.391  | 5.6   | 88    | 0.03     |
| 39 T | 1,2-Dichloropropane         | 0.361 | 0.333  | 7.8   | 83    | 0.03     |
| 40 T | 1,4-Dioxane                 | 0.192 | 0.168  | 12.5  | 84    | 0.04     |
| 41 T | Tetrahydrofuran             | 0.418 | 0.371  | 11.2  | 79    | 0.02     |
| 42 T | Bromodichloromethane        | 0.782 | 0.811  | -3.7  | 89    | 0.03     |
| 43   | Methyl Methacrylate         | 0.420 | 0.370  | 11.9  | 78    | 0.04     |
| 44 T | 2,2,4-Trimethylpentane      | 1.675 | 1.532  | 8.5   | 80    | 0.03     |
| 45 T | t-1,3-Dichloropropene       | 0.450 | 0.413  | 8.2   | 79    | 0.04     |
| 46 T | cis-1,3-Dichloropropene     | 0.552 | 0.505  | 8.5   | 78    | 0.04     |
| 47 T | 1,1,2-Trichloroethane       | 0.382 | 0.366  | 4.2   | 85    | 0.04     |
| 48 T | Dibromochloromethane        | 0.647 | 0.659  | -1.9  | 88    | 0.04     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042201.D  
Acq On : 31 Mar 2025 08:51  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Apr 01 01:49:21 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 | 0.568 | 2.2  | 82    | 0.03     |
| 50 T | 4-Methyl-2-Pentanone      | 1.149 | 0.949 | 17.4 | 78    | 0.05     |
| 51 T | 2-Hexanone                | 0.944 | 0.764 | 19.1 | 76    | 0.03     |
| 52 T | Tetrachloroethene         | 0.393 | 0.337 | 14.2 | 83    | 0.03     |
| 53 T | Toluene                   | 1.175 | 1.070 | 8.9  | 80    | 0.04     |
| 54 T | 1,2-Dibromoethane         | 0.532 | 0.520 | 2.3  | 86    | 0.03     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0  | 82    | 0.03     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.550 | 0.558 | -1.5 | 89    | 0.03     |
| 57 T | Chlorobenzene             | 0.949 | 0.917 | 3.4  | 86    | 0.03     |
| 58 T | Ethyl Benzene             | 1.776 | 1.678 | 5.5  | 82    | 0.02     |
| 59 T | m/p-Xylene                | 1.418 | 1.371 | 3.3  | 85    | 0.02     |
| 60 T | o-Xylene                  | 1.422 | 1.355 | 4.7  | 83    | 0.03     |
| 61 T | Styrene                   | 0.703 | 0.663 | 5.7  | 79    | 0.03     |
| 62   | Isopropylbenzene          | 2.126 | 2.060 | 3.1  | 86    | 0.02     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.864 | 0.822 | 4.9  | 84    | 0.02     |
| 64   | n-propylbenzene           | 0.547 | 0.538 | 1.6  | 88    | 0.02     |
| 65   | tert-Butylbenzene         | 1.966 | 1.873 | 4.7  | 88    | 0.02     |
| 66 T | Benzyl Chloride           | 0.209 | 0.171 | 18.2 | 69    | 0.02     |
| 67   | sec-Butylbenzene          | 2.733 | 2.645 | 3.2  | 90    | 0.02     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.821 | 0.837 | -1.9 | 84    | 0.02     |
| 69   | p-Isopropyltoluene        | 2.354 | 2.279 | 3.2  | 90    | 0.02     |
| 70   | n-Butylbenzene            | 2.407 | 2.371 | 1.5  | 91    | 0.02     |
| 71   | 2-Chlorotoluene           | 1.650 | 1.593 | 3.5  | 85    | 0.02     |
| 72 T | 4-Ethyltoluene            | 1.770 | 1.731 | 2.2  | 87    | 0.02     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.546 | 1.501 | 2.9  | 88    | 0.02     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.781 | 1.639 | 8.0  | 89    | 0.02     |
| 75 T | 1,3-Dichlorobenzene       | 0.977 | 0.967 | 1.0  | 90    | 0.02     |
| 76 T | 1,4-Dichlorobenzene       | 0.972 | 0.974 | -0.2 | 90    | 0.02     |
| 77 T | 1,2-Dichlorobenzene       | 0.951 | 0.940 | 1.2  | 90    | 0.02     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.968 | 0.813 | 16.0 | 83    | 0.02     |
| 79 T | Naphthalene               | 1.948 | 1.962 | -0.7 | 89    | 0.02     |
| 80 T | Naphthalene,2-methyl-     | 0.955 | 1.007 | -5.4 | 83    | 0.02     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.899 | 0.879 | 2.2  | 84    | 0.02     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



# QC SAMPLE DATA

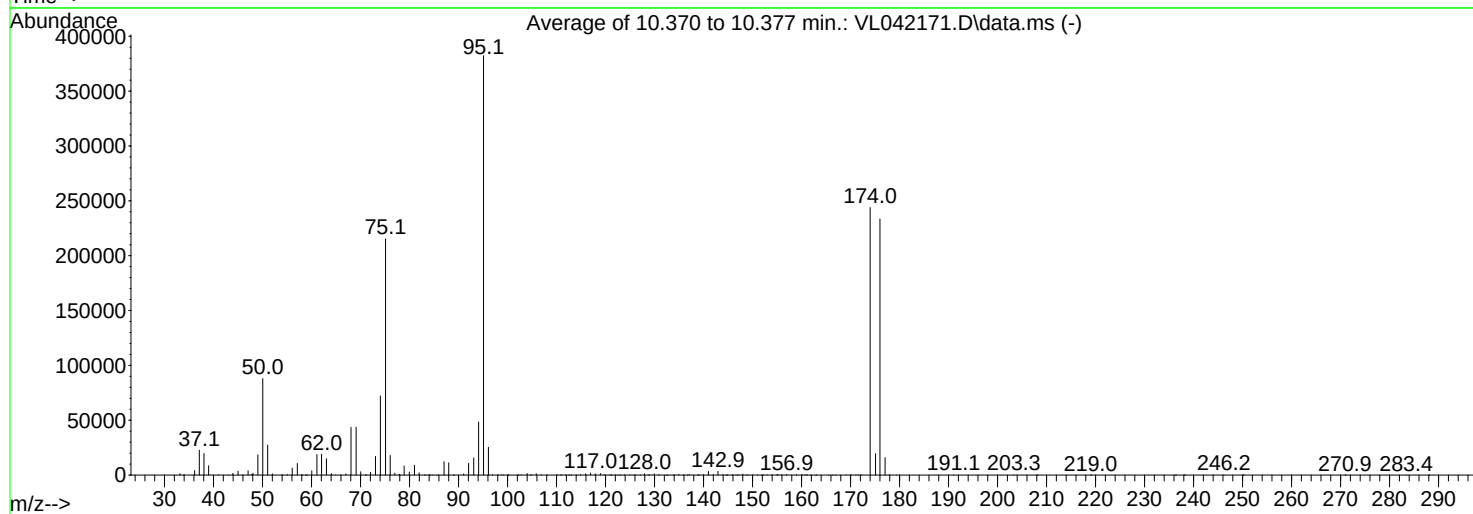
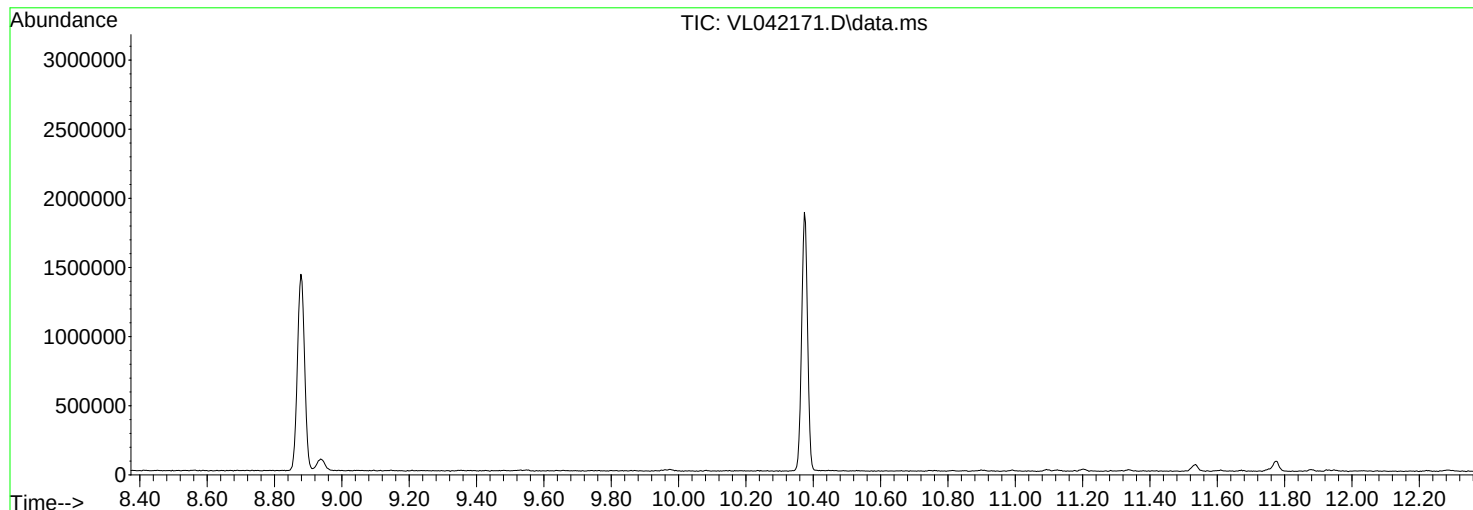
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19

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

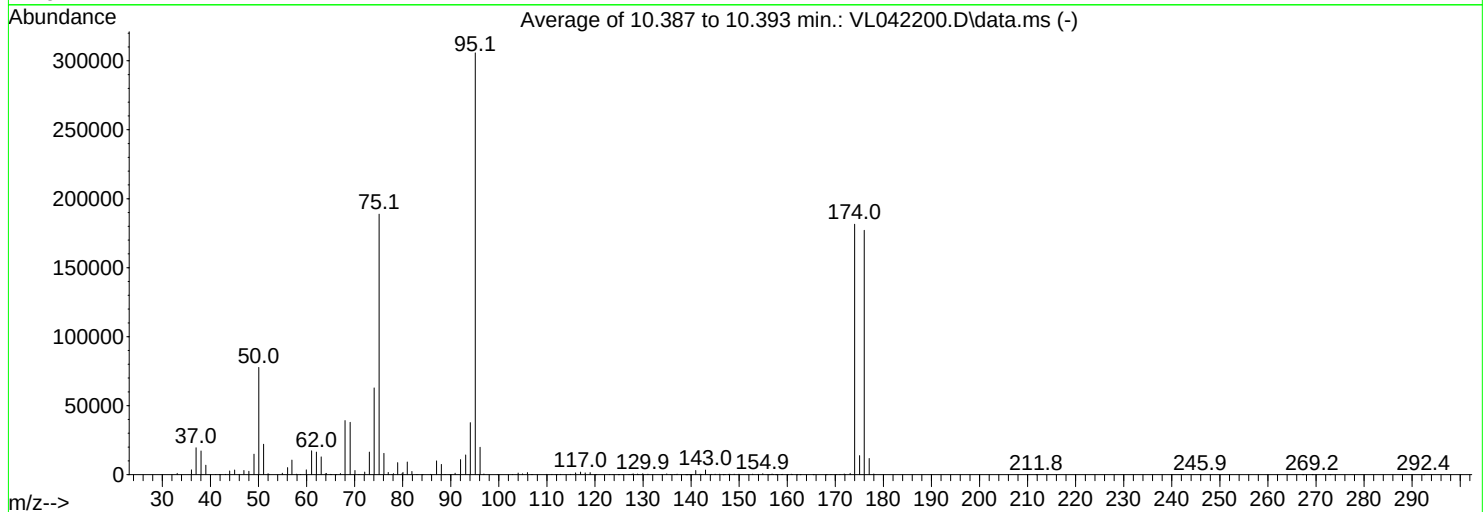
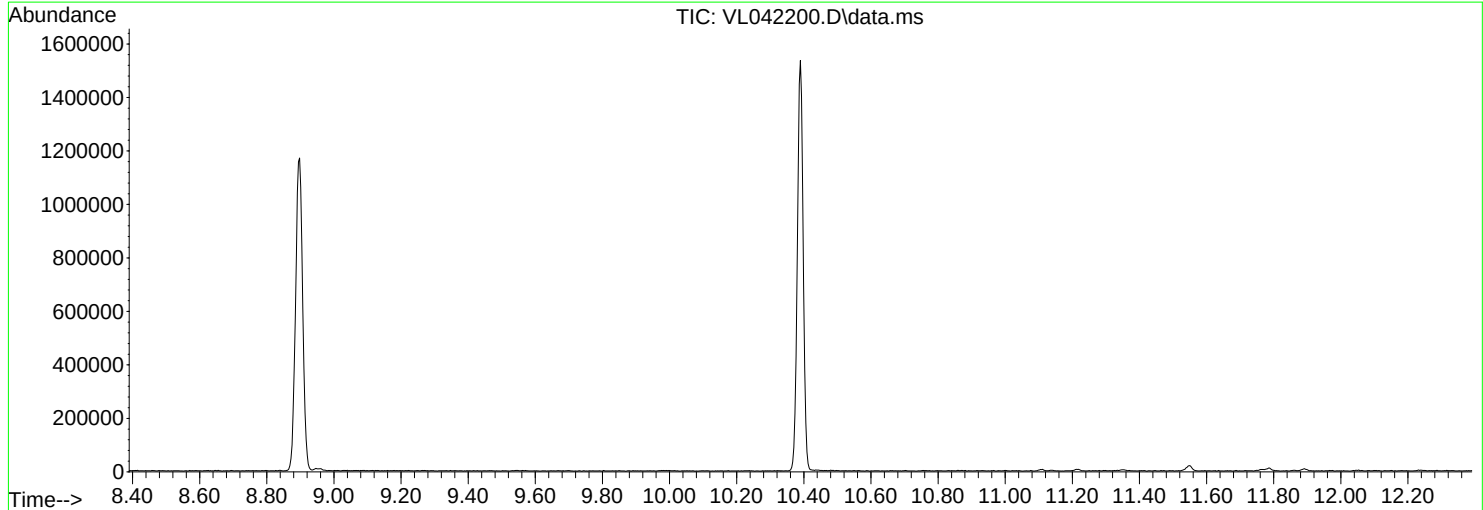
| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 8               | 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                |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042200.D  
Acq On : 31 Mar 2025 08:09  
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 3182, 3183, 3184; Background Corrected with Scan 3168

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 25.4  | 77685  | PASS      |
| 75     | 95      | 30     | 66     | 61.8  | 188843 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 305749 | PASS      |
| 96     | 95      | 5      | 9      | 6.5   | 19795  | PASS      |
| 173    | 174     | 0.00   | 2      | 0.5   | 913    | PASS      |
| 174    | 95      | 50     | 120    | 59.4  | 181483 | PASS      |
| 175    | 174     | 4      | 9      | 7.6   | 13787  | PASS      |
| 176    | 174     | 93     | 101    | 97.6  | 177067 | PASS      |
| 177    | 176     | 5      | 9      | 6.6   | 11740  | PASS      |

## Report of Analysis

|                    |                                                 |                 |       |
|--------------------|-------------------------------------------------|-----------------|-------|
| Client:            | Woodard & Curran                                | Date Collected: |       |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  |       |
| Client Sample ID:  | VL0327ABL01                                     | SDG No.:        | Q1669 |
| Lab Sample ID:     | VL0327ABL01                                     | 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 |
| VL042180.D        | 1         |           | 03/27/25 13:50 | VL032725      |

| 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:            | Woodard & Curran                                | Date Collected: |       |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  |       |
| Client Sample ID:  | VL0327ABL01                                     | SDG No.:        | Q1669 |
| Lab Sample ID:     | VL0327ABL01                                     | 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 |
| VL042180.D        | 1         |           | 03/27/25 13:50 | VL032725      |

| 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   | 9.90          |                |           | 70 (65) - 130 (135) | 99%        | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                           |               |                |           |                     |            |         |
| 74-97-5                   | Bromochloromethane        | 171000        |                | 2.787     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene       | 484000        |                | 3.959     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5          | 446000        |                | 8.881     |                     |            |         |

## Report of Analysis

|                    |                                                 |                 |       |
|--------------------|-------------------------------------------------|-----------------|-------|
| Client:            | Woodard & Curran                                | Date Collected: |       |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  |       |
| Client Sample ID:  | VL0327ABL01                                     | SDG No.:        | Q1669 |
| Lab Sample ID:     | VL0327ABL01                                     | 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 |
| VL042180.D        | 1         |           | 03/27/25 13:50 | VL032725      |

| 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\VL032725\  
Data File : VL042180.D  
Acq On : 27 Mar 2025 13:50  
Operator : SY/MD  
Sample : VL0327ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABL01

Quant Time: Mar 28 02:12:10 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

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 170921   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 483563   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 446480   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 364194   | 9.933    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.300% |

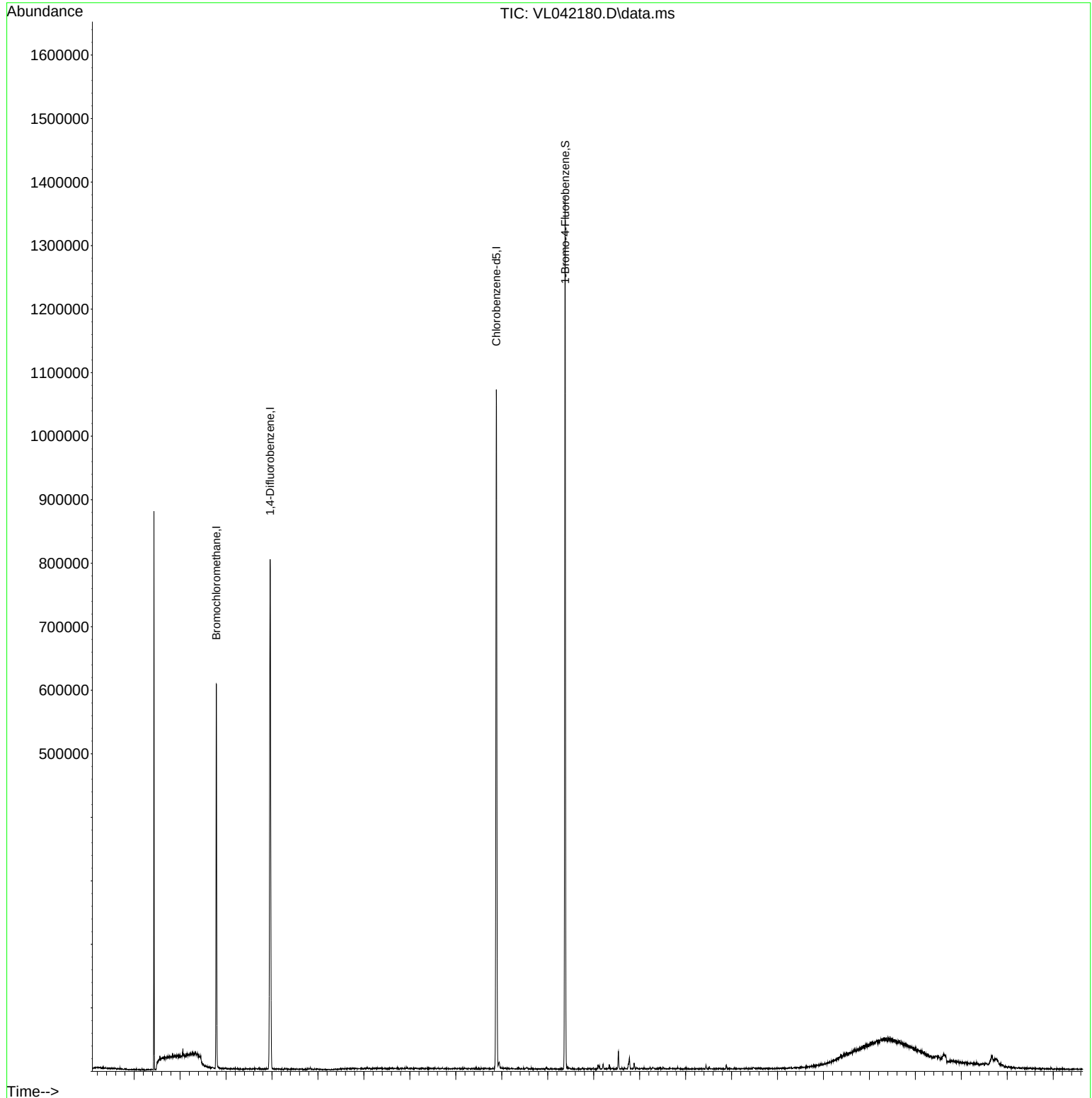
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

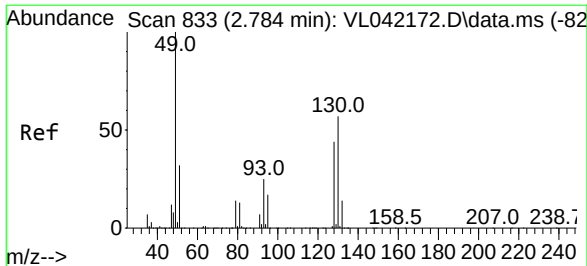
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042180.D  
Acq On : 27 Mar 2025 13:50  
Operator : SY/MD  
Sample : VL0327ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABL01

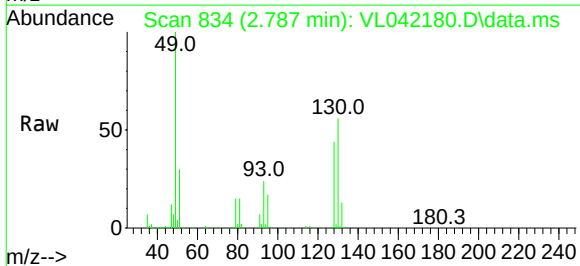
Quant Time: Mar 28 02:12:10 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration



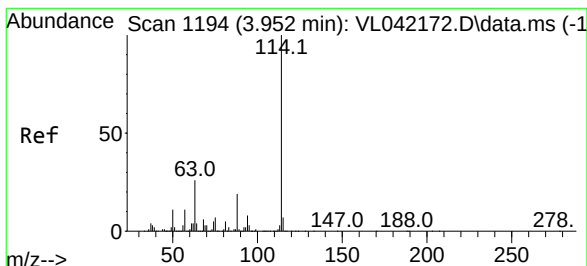
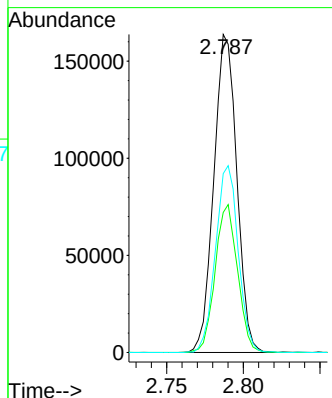
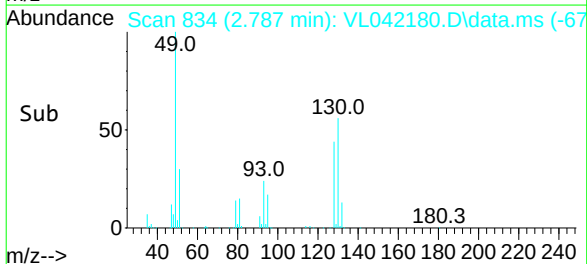


#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 833  
Delta R.T. 0.003 min  
Lab File: VL042180.D  
Acq: 27 Mar 2025 13:50

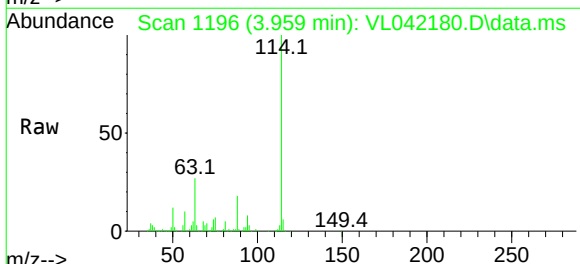
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABL01



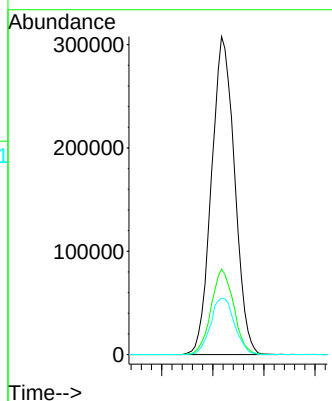
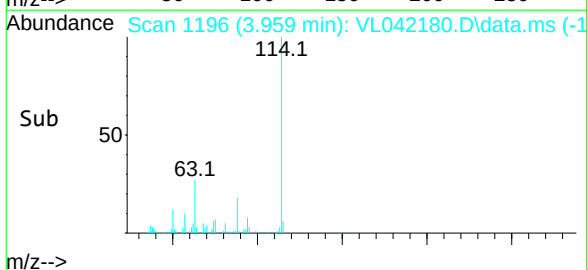
Tgt Ion: 49 Resp: 170921  
Ion Ratio Lower Upper  
49 100  
128 45.3 22.9 68.5  
130 58.1 28.8 86.4

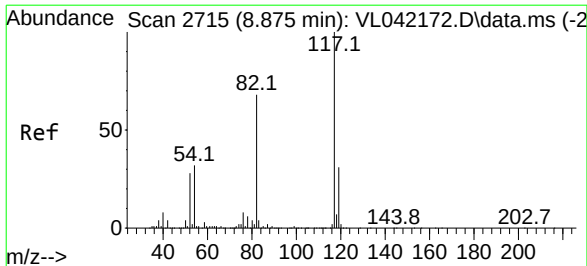


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. 0.006 min  
Lab File: VL042180.D  
Acq: 27 Mar 2025 13:50



Tgt Ion: 114 Resp: 483563  
Ion Ratio Lower Upper  
114 100  
63 26.3 20.7 31.1  
88 18.4 15.0 22.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.881 min Scan# 2715

Delta R.T. 0.006 min

Lab File: VL042180.D

Acq: 27 Mar 2025 13:50

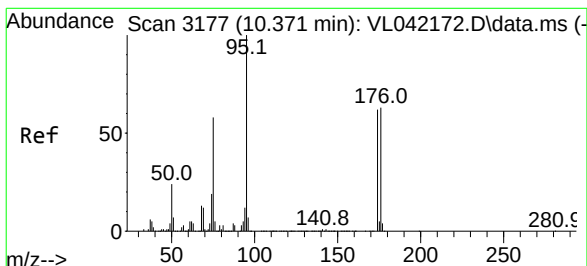
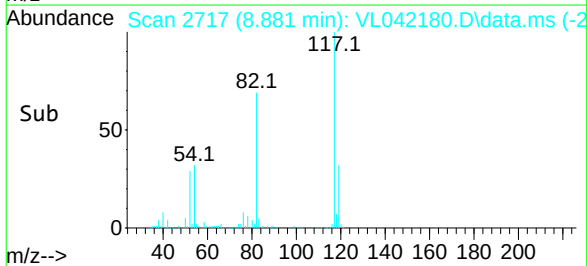
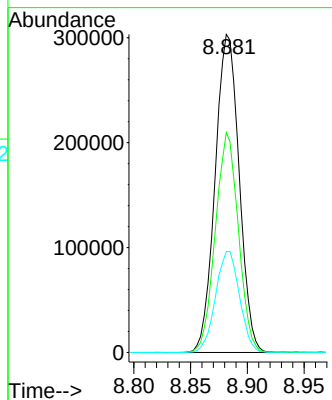
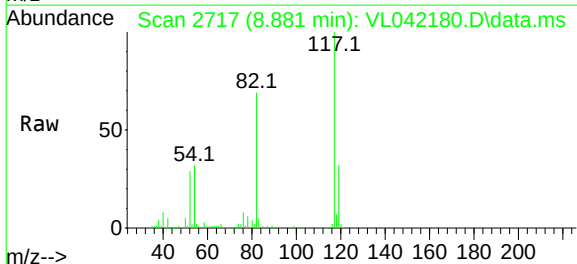
Instrument :

MSVOA\_L

ClientSampleId :

VL0327ABL01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 446480 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 66.3  | 55.8  | 83.6   |
| 119      | 31.9  | 25.5  | 38.3   |



#68

1-Bromo-4-Fluorobenzene

Concen: 9.933 ppbv

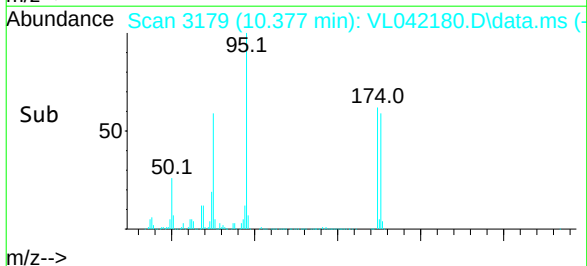
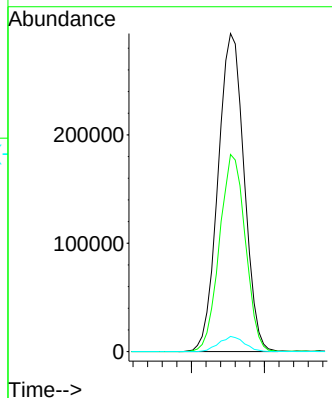
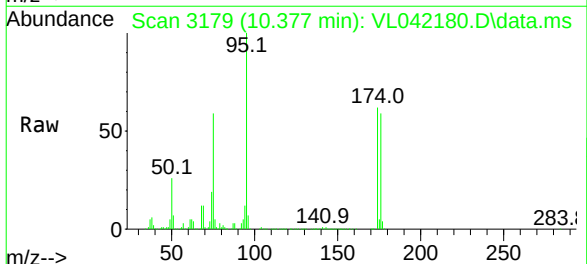
RT: 10.377 min Scan# 3179

Delta R.T. 0.006 min

Lab File: VL042180.D

Acq: 27 Mar 2025 13:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 364194 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 61.6  | 50.6  | 76.0   |
| 175      | 4.6   | 3.8   | 5.6    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042180.D  
Acq On : 27 Mar 2025 13:50  
Operator : SY/MD  
Sample : VL0327ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABL01

Integration Parameters: RTEINT.P  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 3 Min Area: 3 % of largest Peak  
Start Thrs: 0.001 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 0

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

Signal : TIC: VL042180.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.431       | 411           | 415         | 419          | rBV      | 878588         | 470375        | 27.65%          | 8.217%        |
| 2         | 2.787       | 826           | 834         | 844          | rBV      | 605351         | 642115        | 37.75%          | 11.217%       |
| 3         | 3.959       | 1183          | 1196        | 1210         | rBV      | 802770         | 1281175       | 75.32%          | 22.381%       |
| 4         | 8.881       | 2705          | 2717        | 2728         | rBV      | 1069430        | 1574344       | 92.55%          | 27.503%       |
| 5         | 10.377      | 3167          | 3179        | 3190         | rBV      | 1373870        | 1701049       | 100.00%         | 29.716%       |
| 6         | 11.539      | 3529          | 3538        | 3548         | rBV3     | 28031          | 32980         | 1.94%           | 0.576%        |
| 7         | 11.778      | 3607          | 3612        | 3620         | rVB4     | 19044          | 22274         | 1.31%           | 0.389%        |

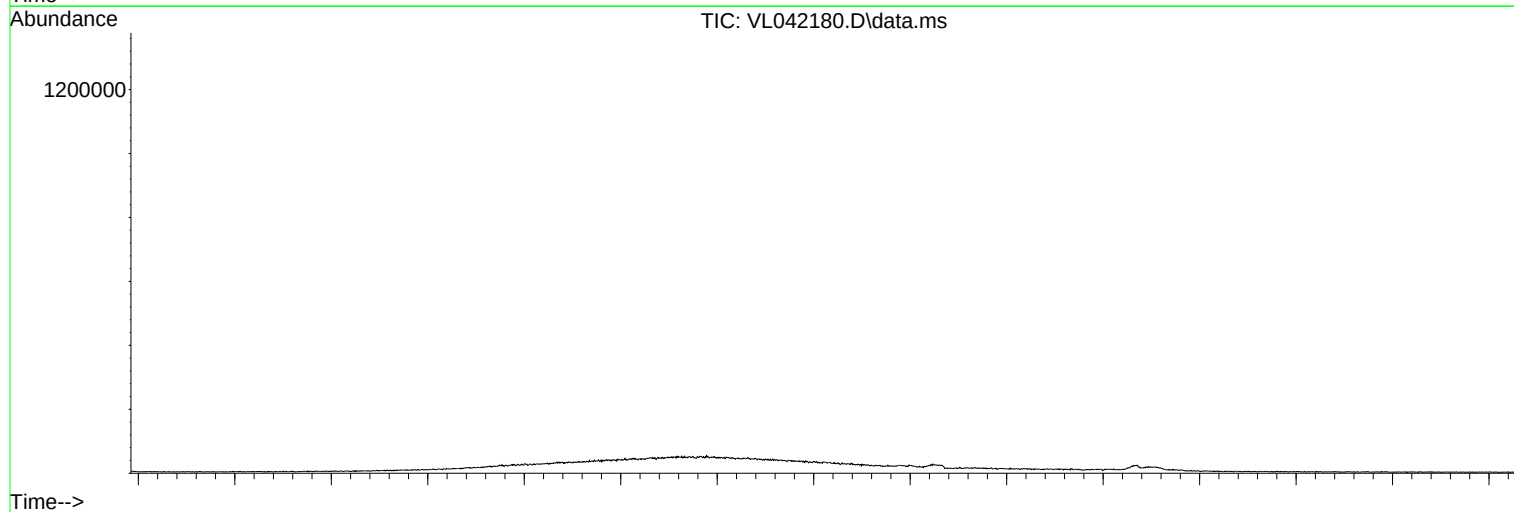
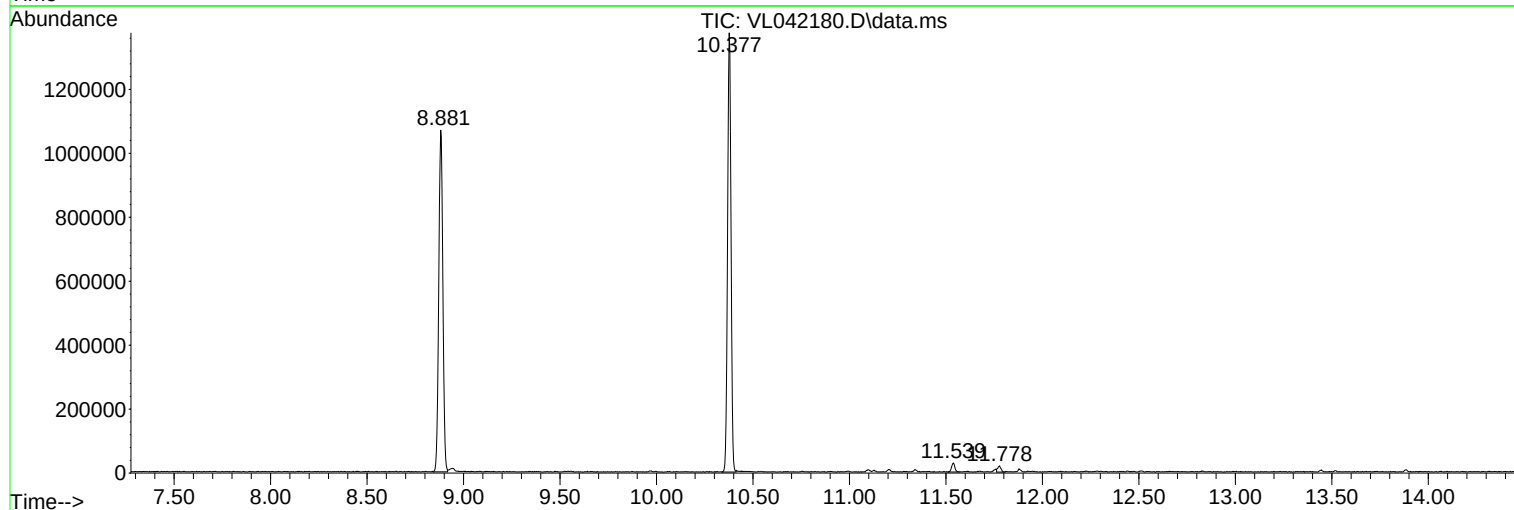
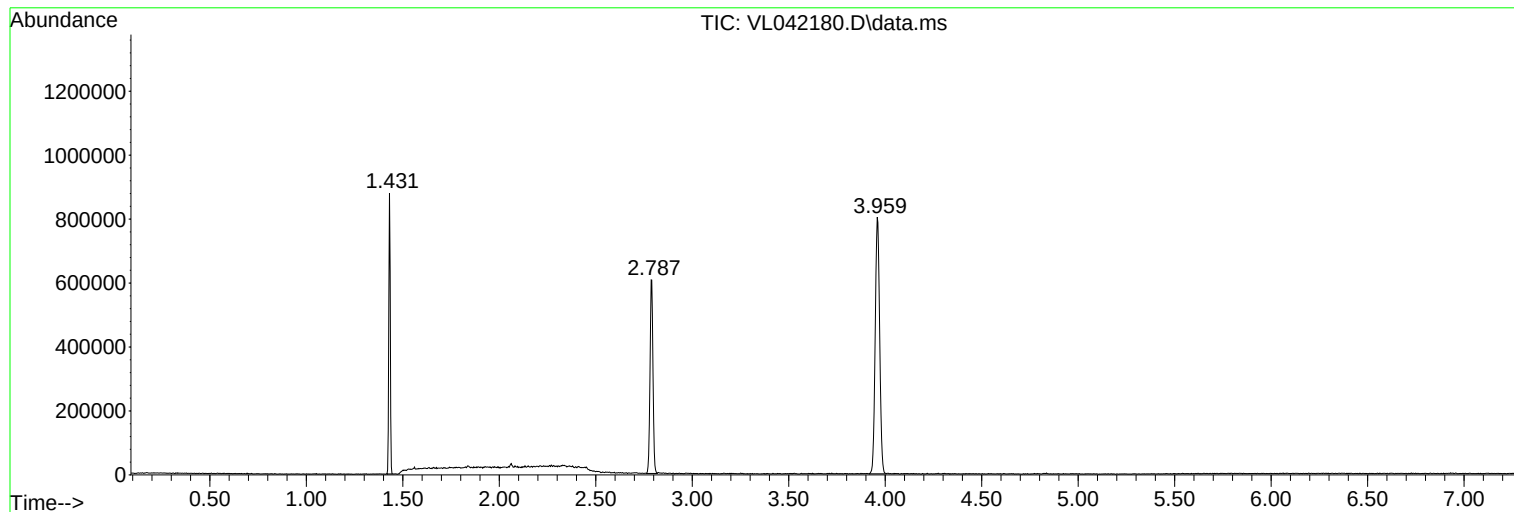
Sum of corrected areas: 5724312

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042180.D  
Acq On : 27 Mar 2025 13:50  
Operator : SY/MD  
Sample : VL0327ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABL01

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042180.D  
Acq On : 27 Mar 2025 13:50  
Operator : SY/MD  
Sample : VL0327ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABL01

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

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

No Library Search Compounds Detected

\*\*\*\*\*

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042180.D  
Acq On : 27 Mar 2025 13:50  
Operator : SY/MD  
Sample : VL0327ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABL01

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

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

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



## Report of Analysis

|                    |                                                 |                 |       |
|--------------------|-------------------------------------------------|-----------------|-------|
| Client:            | Woodard & Curran                                | Date Collected: |       |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  |       |
| Client Sample ID:  | VL0331ABL01                                     | SDG No.:        | Q1669 |
| Lab Sample ID:     | VL0331ABL01                                     | 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 |
| VL042202.D        | 1         |           | 03/31/25 09:34 | VL033125      |

| 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:            | Woodard & Curran                                | Date Collected: |       |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  |       |
| Client Sample ID:  | VL0331ABL01                                     | SDG No.:        | Q1669 |
| Lab Sample ID:     | VL0331ABL01                                     | 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 |
| VL042202.D        | 1         |           | 03/31/25 09:34 | VL033125      |

| 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 |

### SURROGATES

|          |                         |      |  |                     |     |         |
|----------|-------------------------|------|--|---------------------|-----|---------|
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 9.90 |  | 70 (65) - 130 (135) | 99% | SPK: 10 |
|----------|-------------------------|------|--|---------------------|-----|---------|

### INTERNAL STANDARDS

|           |                     |        |       |
|-----------|---------------------|--------|-------|
| 74-97-5   | Bromochloromethane  | 182000 | 2.8   |
| 540-36-3  | 1,4-Difluorobenzene | 518000 | 3.981 |
| 3114-55-4 | Chlorobenzene-d5    | 465000 | 8.901 |

## Report of Analysis

|                    |                                                 |                 |       |
|--------------------|-------------------------------------------------|-----------------|-------|
| Client:            | Woodard & Curran                                | Date Collected: |       |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  |       |
| Client Sample ID:  | VL0331ABL01                                     | SDG No.:        | Q1669 |
| Lab Sample ID:     | VL0331ABL01                                     | 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 |
| VL042202.D        | 1         |           | 03/31/25 09:34 | VL033125      |

| 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\VL033125\  
Data File : VL042202.D  
Acq On : 31 Mar 2025 09:34  
Operator : SY/MD  
Sample : VL0331ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABL01

Quant Time: Apr 01 01:35:30 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

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.800 | 49   | 181807   | 10.000 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 3.981 | 114  | 517775   | 10.000 | ppbv  | 0.03     |
| 55) Chlorobenzene-d5    | 8.901 | 117  | 464953   | 10.000 | ppbv  | 0.03     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.393 | 95    | 379890   | 9.949    | ppbv | 0.02    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.500% |

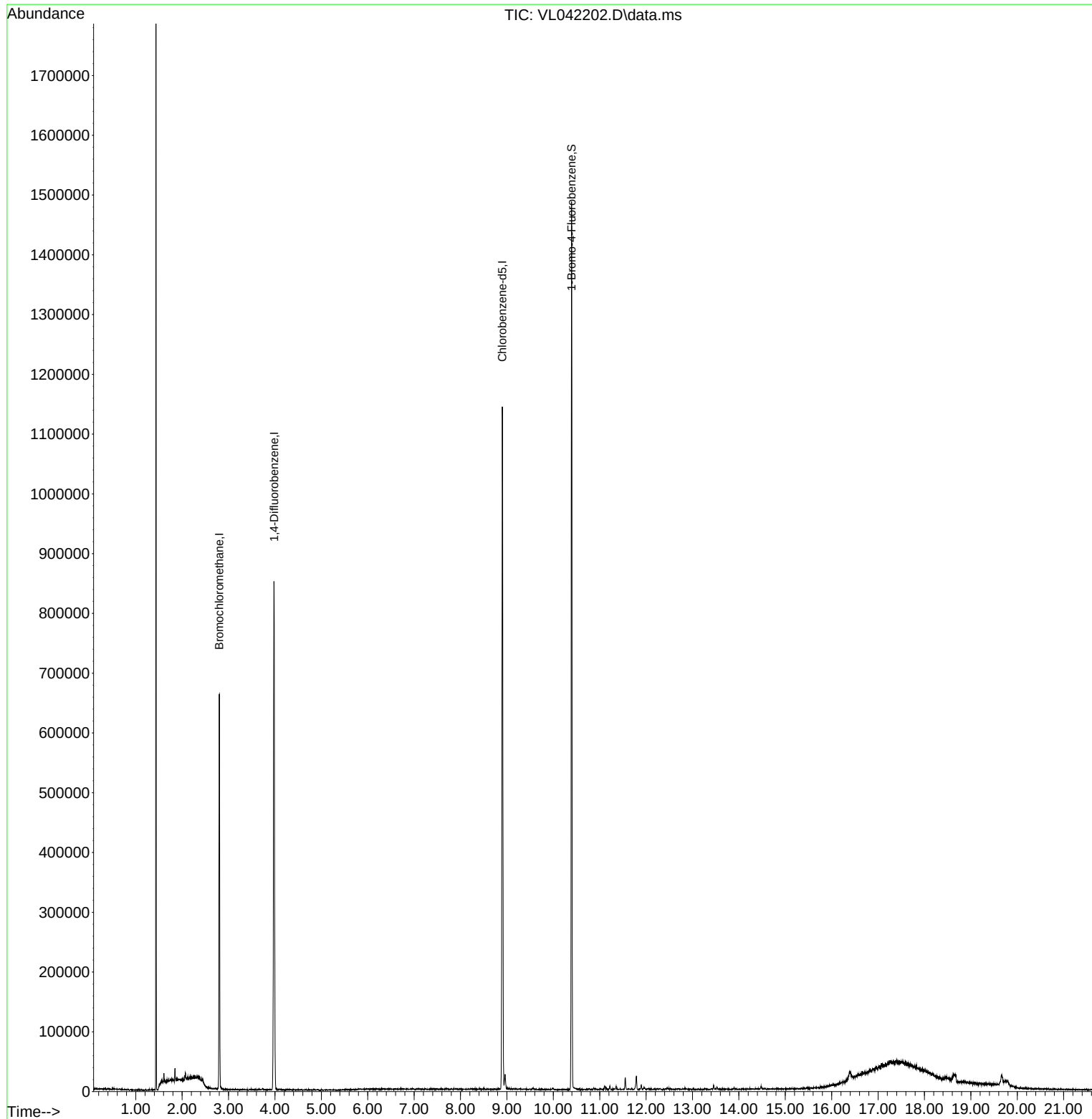
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

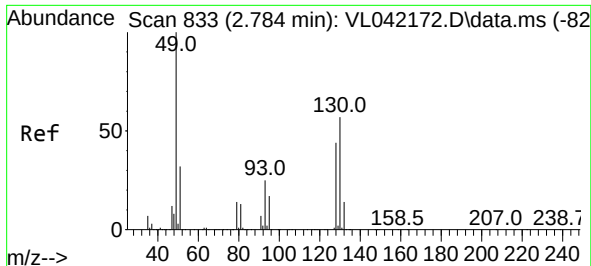
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042202.D  
Acq On : 31 Mar 2025 09:34  
Operator : SY/MD  
Sample : VL0331ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABL01

Quant Time: Apr 01 01:35:30 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

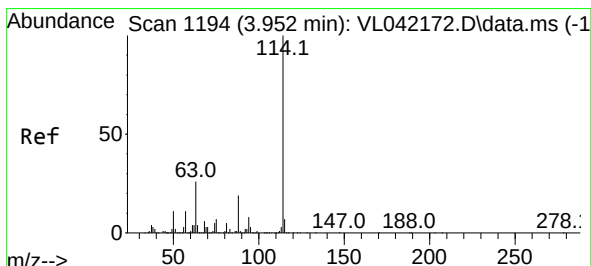
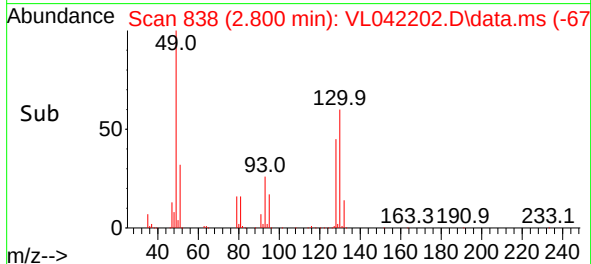
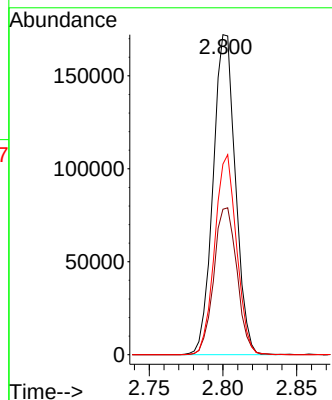
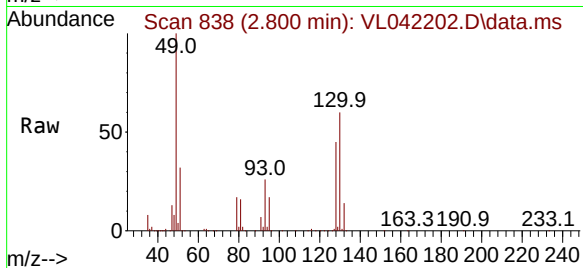




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.800 min Scan# 81  
Delta R.T. 0.016 min  
Lab File: VL042202.D  
Acq: 31 Mar 2025 09:34

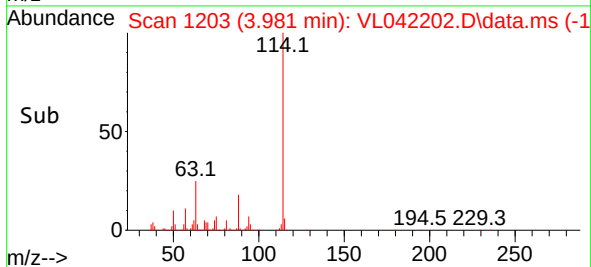
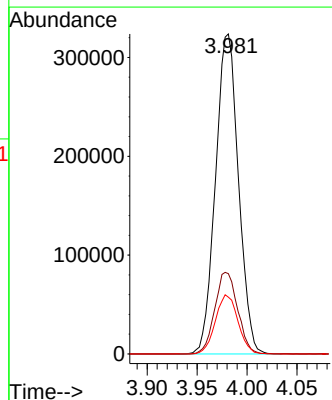
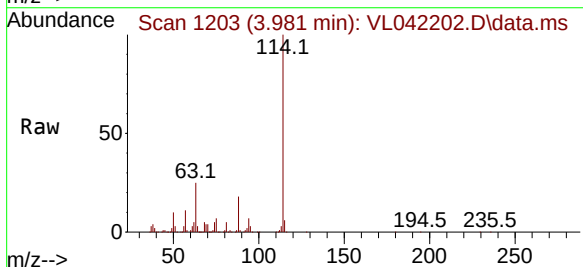
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABL01

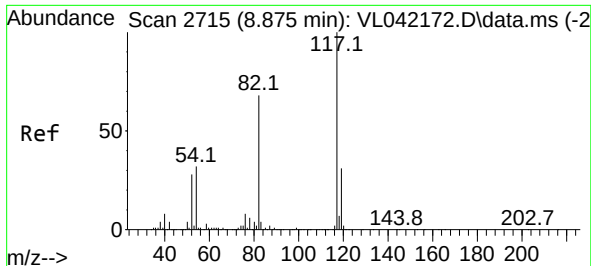
Tgt Ion: 49 Resp: 181807  
Ion Ratio Lower Upper  
49 100  
128 47.5 22.9 68.5  
130 61.0 28.8 86.4



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.981 min Scan# 1203  
Delta R.T. 0.029 min  
Lab File: VL042202.D  
Acq: 31 Mar 2025 09:34

Tgt Ion: 114 Resp: 517775  
Ion Ratio Lower Upper  
114 100  
63 25.4 20.7 31.1  
88 18.2 15.0 22.4

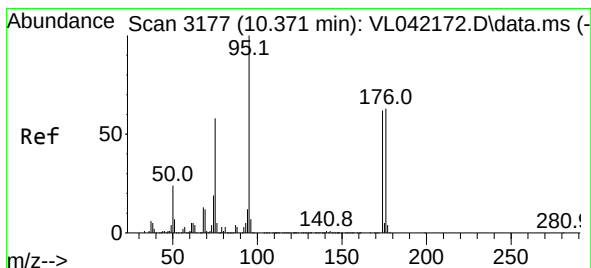
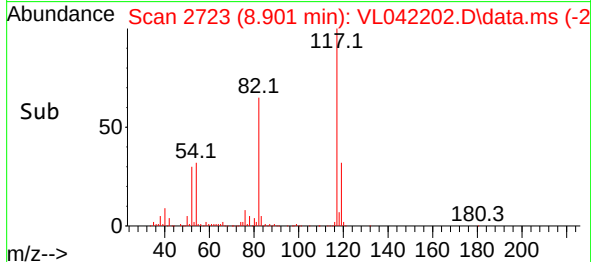
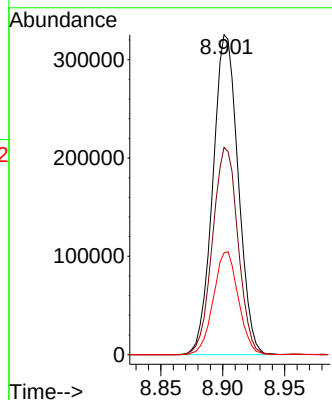
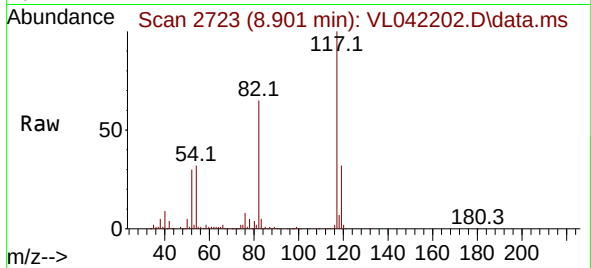




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.901 min Scan# 21  
Delta R.T. 0.026 min  
Lab File: VL042202.D  
Acq: 31 Mar 2025 09:34

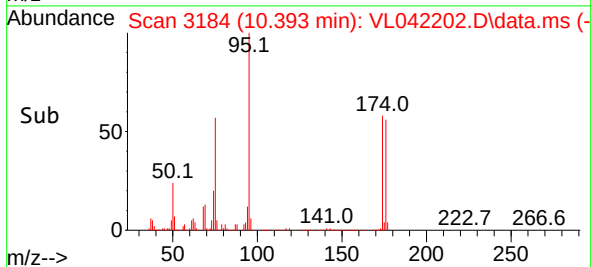
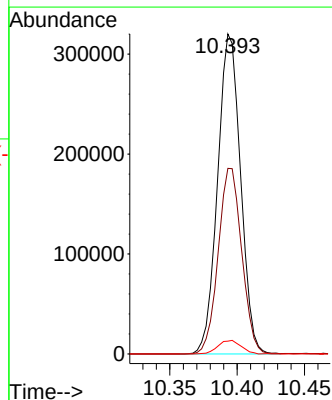
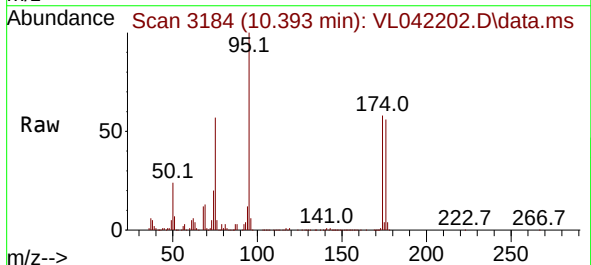
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABL01

Tgt Ion:117 Resp: 464953  
Ion Ratio Lower Upper  
117 100  
82 65.0 55.8 83.6  
119 31.7 25.5 38.3



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.949 ppbv  
RT: 10.393 min Scan# 3184  
Delta R.T. 0.022 min  
Lab File: VL042202.D  
Acq: 31 Mar 2025 09:34

Tgt Ion: 95 Resp: 379890  
Ion Ratio Lower Upper  
95 100  
174 59.4 50.6 76.0  
175 4.3 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042202.D  
Acq On : 31 Mar 2025 09:34  
Operator : SY/MD  
Sample : VL0331ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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

Signal : TIC: VL042202.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.437       | 412           | 417         | 421          | rBV      | 1922242        | 1209679       | 67.81%          | 17.755%       |
| 2         | 2.803       | 828           | 839         | 846          | rBV      | 660798         | 707520        | 39.66%          | 10.384%       |
| 3         | 3.978       | 1189          | 1202        | 1215         | rBV      | 850859         | 1370354       | 76.82%          | 20.113%       |
| 4         | 8.901       | 2709          | 2723        | 2734         | rBV      | 1142391        | 1647912       | 92.38%          | 24.186%       |
| 5         | 8.959       | 2734          | 2741        | 2753         | rVB4     | 24619          | 39323         | 2.20%           | 0.577%        |
| 6         | 10.393      | 3173          | 3184        | 3201         | rBV      | 1485970        | 1783824       | 100.00%         | 26.181%       |
| 7         | 11.552      | 3535          | 3542        | 3551         | rVB4     | 19390          | 23362         | 1.31%           | 0.343%        |
| 8         | 11.788      | 3604          | 3615        | 3622         | rVB3     | 22327          | 31391         | 1.76%           | 0.461%        |

Sum of corrected areas: 6813365

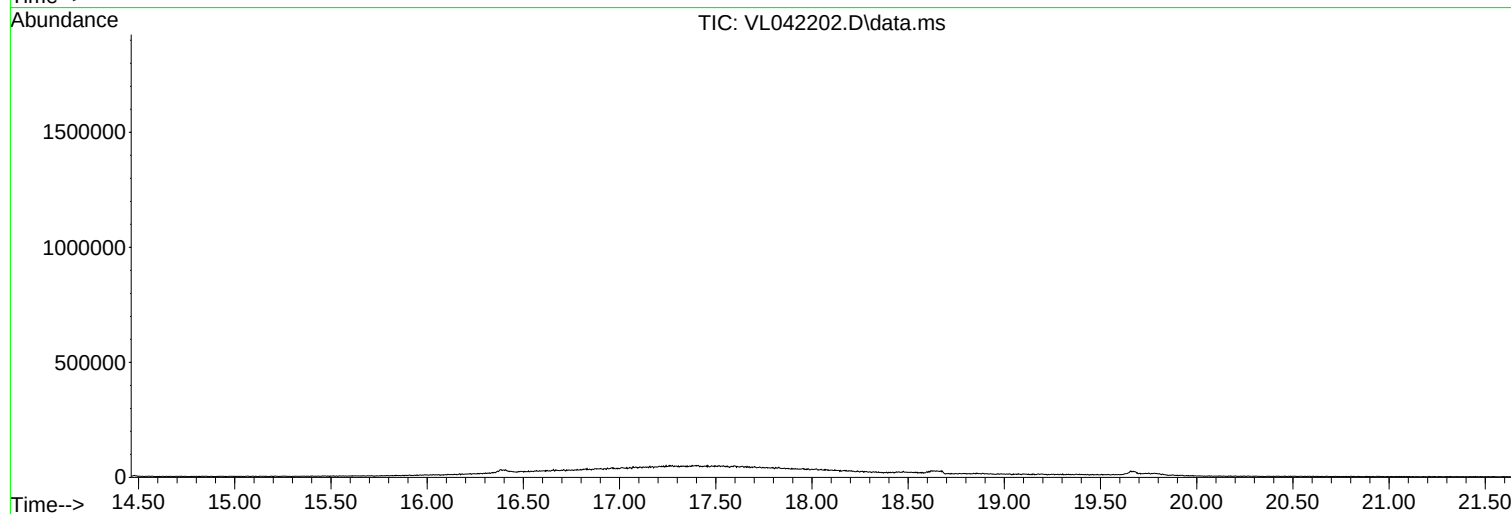
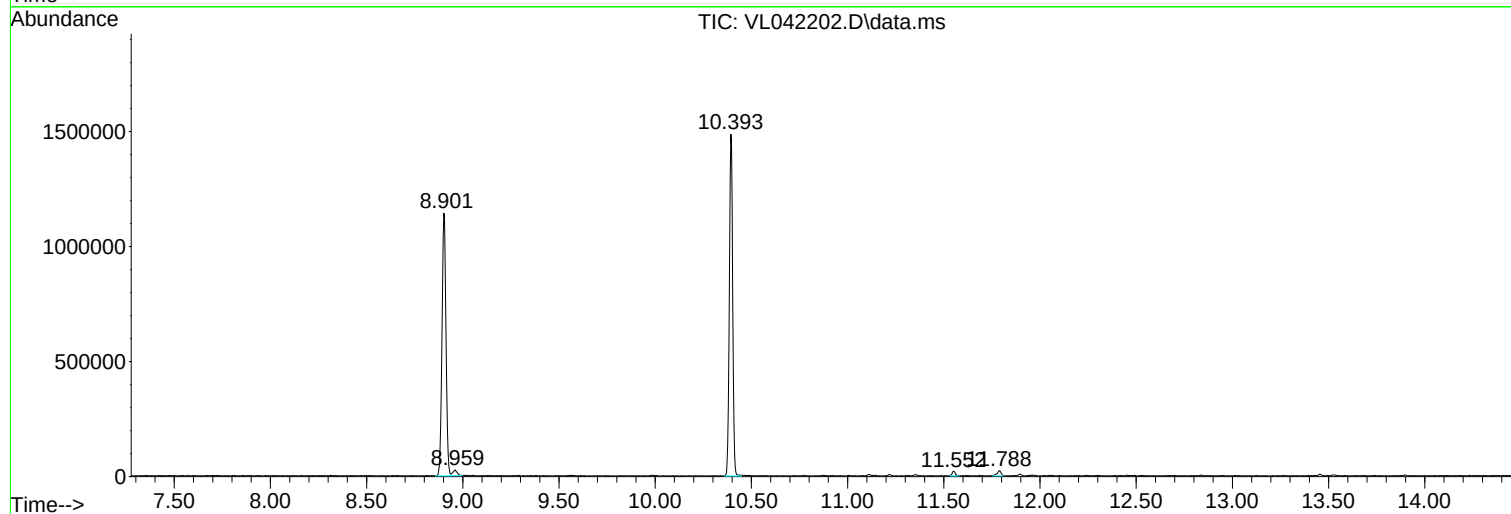
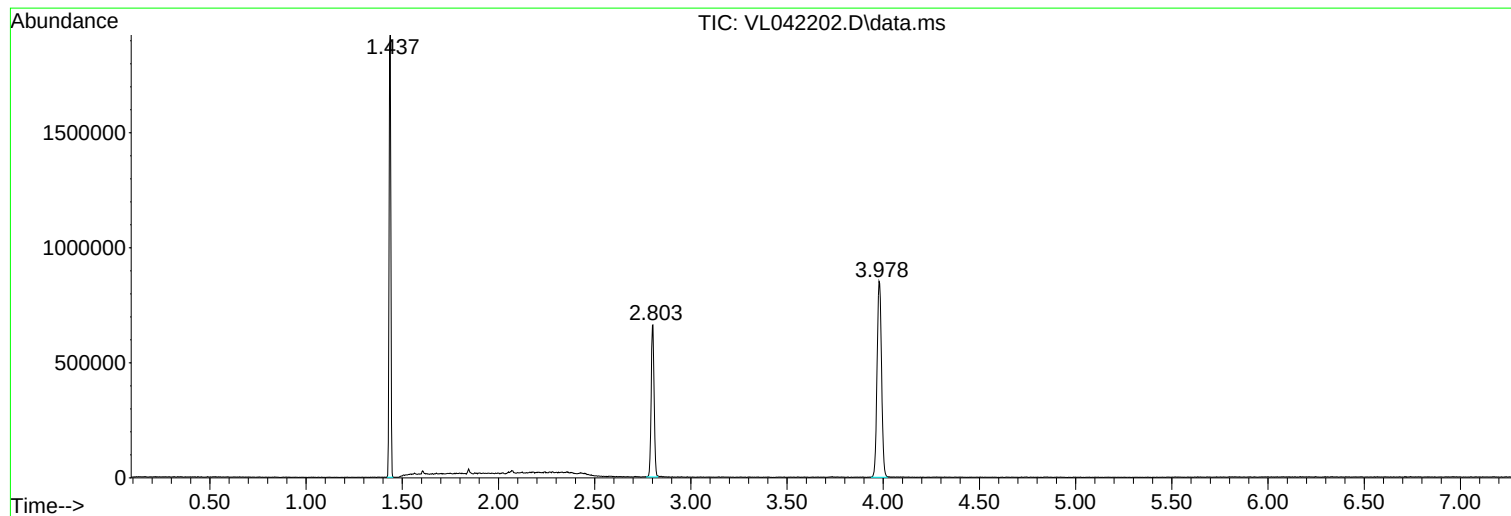


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042202.D  
Acq On : 31 Mar 2025 09:34  
Operator : SY/MD  
Sample : VL0331ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABL01

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

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042202.D  
Acq On : 31 Mar 2025 09:34  
Operator : SY/MD  
Sample : VL0331ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABL01

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

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

No Library Search Compounds Detected

\*\*\*\*\*

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
Data File : VL042202.D  
Acq On : 31 Mar 2025 09:34  
Operator : SY/MD  
Sample : VL0331ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABL01

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

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

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

## Report of Analysis

|                    |                                                 |                 |       |
|--------------------|-------------------------------------------------|-----------------|-------|
| Client:            | Woodard & Curran                                | Date Collected: |       |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  |       |
| Client Sample ID:  | VL0327ABS01                                     | SDG No.:        | Q1669 |
| Lab Sample ID:     | VL0327ABS01                                     | 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 |
| VL042181.D        | 1         |           | 03/27/25 14:39 | VL032725      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 9.90          | 49.0           |           | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 9.60          | 19.8           |           | 0.21  | 1.03       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 8.60          | 22.0           |           | 0.030 | 0.080      | ug/m3 |
| 74-83-9        | Bromomethane                   | 8.90          | 34.6           |           | 0.54  | 1.94       | ug/m3 |
| 75-00-3        | Chloroethane                   | 9.30          | 24.5           |           | 0.45  | 1.32       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 9.40          | 27.7           |           | 0.38  | 1.47       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 9.70          | 54.5           |           | 0.90  | 2.81       | ug/m3 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 9.10          | 69.8           |           | 1.23  | 3.83       | ug/m3 |
| 76-14-2        | Dichlorotetrafluoroethane      | 10.0          | 69.9           |           | 0.63  | 3.49       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 9.20          | 27.9           |           | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 9.50          | 38.9           |           | 0.45  | 2.05       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 9.10          | 36.1           |           | 0.56  | 1.98       | ug/m3 |
| 67-64-1        | Acetone                        | 8.40          | 19.9           |           | 0.57  | 1.19       | ug/m3 |
| 75-15-0        | Carbon Disulfide               | 9.20          | 28.6           |           | 0.50  | 1.56       | ug/m3 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 10.3          | 37.1           |           | 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       | 9.10          | 36.1           |           | 0.75  | 1.98       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 9.70          | 39.3           |           | 0.53  | 2.02       | ug/m3 |
| 110-82-7       | Cyclohexane                    | 9.60          | 33.0           |           | 0.76  | 1.72       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 9.20          | 27.1           |           | 0.35  | 1.47       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 9.60          | 60.4           |           | 0.060 | 0.19       | ug/m3 |
| 156-59-2       | cis-1,2-Dichloroethene         | 9.80          | 38.9           |           | 0.36  | 1.98       | ug/m3 |
| 67-66-3        | Chloroform                     | 9.90          | 48.4           |           | 0.39  | 2.44       | ug/m3 |
| 71-55-6        | 1,1,1-Trichloroethane          | 9.20          | 50.2           |           | 0.050 | 0.16       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 9.50          | 44.4           |           | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 9.50          | 30.4           |           | 0.29  | 1.60       | ug/m3 |
| 107-06-2       | 1,2-Dichloroethane             | 10.1          | 40.9           |           | 0.36  | 2.02       | ug/m3 |
| 79-01-6        | Trichloroethene                | 9.40          | 50.5           |           | 0.11  | 0.16       | ug/m3 |
| 78-87-5        | 1,2-Dichloropropane            | 9.40          | 43.4           |           | 0.51  | 2.31       | ug/m3 |
| 75-27-4        | Bromodichloromethane           | 10.0          | 67.0           |           | 0.54  | 3.35       | ug/m3 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 8.70          | 35.6           |           | 0.37  | 2.05       | ug/m3 |
| 108-88-3       | Toluene                        | 9.50          | 35.8           |           | 0.41  | 1.88       | ug/m3 |
| 10061-02-6     | t-1,3-Dichloropropene          | 9.40          | 42.7           |           | 0.27  | 2.27       | ug/m3 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 9.40          | 42.7           |           | 0.27  | 2.27       | ug/m3 |
| 79-00-5        | 1,1,2-Trichloroethane          | 9.50          | 51.8           |           | 0.38  | 2.73       | ug/m3 |

## Report of Analysis

|                    |                                                 |                 |       |
|--------------------|-------------------------------------------------|-----------------|-------|
| Client:            | Woodard & Curran                                | Date Collected: |       |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  |       |
| Client Sample ID:  | VL0327ABS01                                     | SDG No.:        | Q1669 |
| Lab Sample ID:     | VL0327ABS01                                     | 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 |
| VL042181.D        | 1         |           | 03/27/25 14:39 | VL032725      |

| CAS Number                | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|---------------------------|---------------|----------------|-----------|---------------------|------------|---------|
| 124-48-1                  | Dibromochloromethane      | 9.90          | 84.3           |           | 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         | 8.80          | 59.7           |           | 0.14                | 0.20       | ug/m3   |
| 108-90-7                  | Chlorobenzene             | 9.50          | 43.8           |           | 0.37                | 2.30       | ug/m3   |
| 100-41-4                  | Ethyl Benzene             | 9.60          | 41.7           |           | 0.52                | 2.17       | ug/m3   |
| 179601-23-1               | m/p-Xylene                | 19.0          | 82.5           |           | 0.91                | 4.34       | ug/m3   |
| 95-47-6                   | o-Xylene                  | 9.50          | 41.3           |           | 0.52                | 2.17       | ug/m3   |
| 100-42-5                  | Styrene                   | 9.60          | 40.9           |           | 0.47                | 2.13       | ug/m3   |
| 75-25-2                   | Bromoform                 | 10.0          | 103            |           | 0.62                | 5.17       | ug/m3   |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane | 9.50          | 65.2           |           | 0.070               | 0.21       | ug/m3   |
| 95-49-8                   | 2-Chlorotoluene           | 9.60          | 49.7           |           | 0.57                | 2.59       | ug/m3   |
| 108-67-8                  | 1,3,5-Trimethylbenzene    | 9.50          | 46.7           |           | 0.54                | 2.46       | ug/m3   |
| 95-63-6                   | 1,2,4-Trimethylbenzene    | 8.90          | 43.8           |           | 0.39                | 2.46       | ug/m3   |
| 541-73-1                  | 1,3-Dichlorobenzene       | 9.40          | 56.5           |           | 0.48                | 3.01       | ug/m3   |
| 106-46-7                  | 1,4-Dichlorobenzene       | 9.50          | 57.1           |           | 0.30                | 3.01       | ug/m3   |
| 95-50-1                   | 1,2-Dichlorobenzene       | 9.30          | 55.9           |           | 0.48                | 3.01       | ug/m3   |
| 120-82-1                  | 1,2,4-Trichlorobenzene    | 8.80          | 65.3           |           | 0.67                | 3.71       | ug/m3   |
| 87-68-3                   | Hexachloro-1,3-Butadiene  | 7.90          | 84.3           |           | 0.96                | 5.33       | ug/m3   |
| 106-99-0                  | 1,3-Butadiene             | 8.70          | 19.3           |           | 0.29                | 1.11       | ug/m3   |
| 91-20-3                   | Naphthalene               | 8.70          | 45.6           |           | 0.42                | 0.52       | ug/m3   |
| 622-96-8                  | 4-Ethyltoluene            | 9.60          | 47.2           |           | 0.59                | 2.46       | ug/m3   |
| 110-54-3                  | Hexane                    | 9.60          | 33.8           |           | 0.39                | 1.76       | ug/m3   |
| 107-05-1                  | Allyl Chloride            | 9.00          | 28.2           |           | 0.47                | 1.57       | ug/m3   |
| 123-91-1                  | 1,4-Dioxane               | 8.90          | 32.1           |           | 0.76                | 1.80       | ug/m3   |
| 80-62-6                   | Methyl Methacrylate       | 9.40          | 38.5           |           | 0.37                | 2.05       | ug/m3   |
| <b>SURROGATES</b>         |                           |               |                |           |                     |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene   | 9.90          |                |           | 70 (65) - 130 (135) | 99%        | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                           |               |                |           |                     |            |         |
| 74-97-5                   | Bromochloromethane        | 166000        |                | 2.787     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene       | 483000        |                | 3.955     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5          | 452000        |                | 8.881     |                     |            |         |

## Report of Analysis

|                    |                                                 |                 |       |
|--------------------|-------------------------------------------------|-----------------|-------|
| Client:            | Woodard & Curran                                | Date Collected: |       |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  |       |
| Client Sample ID:  | VL0327ABS01                                     | SDG No.:        | Q1669 |
| Lab Sample ID:     | VL0327ABS01                                     | 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 |
| VL042181.D        | 1         |           | 03/27/25 14:39 | VL032725      |

| 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\VL032725\  
 Data File : VL042181.D  
 Acq On : 27 Mar 2025 14:39  
 Operator : SY/MD  
 Sample : VL0327ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0327ABS01

Quant Time: Mar 28 02:12:34 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 02:00:52 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         | 2.787  | 49    | 166105   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.955  | 114   | 483209   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.881  | 117   | 452250   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 368941   | 9.934    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.300%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 243063   | 9.911    | ppbv   | 100      |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 241481   | 9.638    | ppbv   | 99       |
| 4) Chloromethane              | 1.531  | 50    | 96241    | 9.602    | ppbv   | 99       |
| 5) Vinyl Chloride             | 1.580  | 62    | 91865    | 8.649    | ppbv   | 94       |
| 6) Bromomethane               | 1.667  | 94    | 40361    | 8.886    | ppbv   | 92       |
| 7) Chloroethane               | 1.703  | 64    | 37307    | 9.273    | ppbv   | 100      |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 208981   | 10.006   | ppbv   | 94       |
| 9) Propene                    | 1.482  | 41    | 102862   | 8.957    | ppbv   | 99       |
| 10) Heptane                   | 4.978  | 43    | 290621   | 9.514    | ppbv   | 100      |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 232086   | 9.725    | ppbv   | 95       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 178792   | 9.115    | ppbv   | 99       |
| 13) Ethanol                   | 1.719  | 45    | 5124     | 4.720    | ppbv   | 93       |
| 14) Bromoethene               | 1.780  | 108   | 69775    | 9.286    | ppbv   | 98       |
| 15) Acetone                   | 1.835  | 43    | 195717   | 8.425    | ppbv   | 96       |
| 16) 1,3-Butadiene             | 1.609  | 39    | 98877    | 8.716    | ppbv   | 100      |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 266424   | 9.208    | ppbv   | 98       |
| 18) 1,1-Dichloroethene        | 2.033  | 96    | 83339    | 9.088    | ppbv   | 95       |
| 19) Isopropyl Alcohol         | 1.884  | 45    | 120986   | 9.230    | ppbv   | 97       |
| 20) Methylene Chloride        | 2.062  | 84    | 69930    | 8.083    | ppbv   | 96       |
| 21) Allyl Chloride            | 2.094  | 41    | 147810   | 9.022    | ppbv   | 99       |
| 22) trans-1,2-Dichloroethene  | 2.340  | 96    | 96616    | 9.116    | ppbv   | 99       |
| 23) Vinyl Acetate             | 2.463  | 43    | 94696    | 9.418    | ppbv   | 96       |
| 24) 1,1-Dichloroethane        | 2.408  | 63    | 189793   | 9.661    | ppbv   | 99       |
| 25) Ethyl Acetate             | 2.835  | 43    | 574442   | 9.528    | ppbv   | 99       |
| 26) Hexane                    | 2.826  | 57    | 224704   | 9.649    | ppbv   | 98       |
| 27) Carbon Disulfide          | 2.149  | 76    | 230410   | 9.226    | ppbv # | 94       |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 149961   | 10.342   | ppbv   | 95       |
| 29) Chloroform                | 2.848  | 83    | 336404   | 9.870    | ppbv   | 96       |
| 30) Cyclohexane               | 3.855  | 84    | 194220   | 9.604    | ppbv   | 98       |
| 31) cis-1,2-Dichloroethene    | 2.719  | 61    | 231151   | 9.777    | ppbv   | 97       |
| 32) 1,1,1-Trichloroethane     | 3.366  | 97    | 359860   | 9.223    | ppbv   | 99       |
| 34) 2-Butanone                | 2.557  | 43    | 320843   | 9.157    | ppbv   | 100      |
| 35) Carbon Tetrachloride      | 3.761  | 117   | 361037   | 9.565    | ppbv   | 99       |
| 36) Benzene                   | 3.658  | 78    | 452718   | 9.450    | ppbv   | 98       |
| 37) 1,2-Dichloroethane        | 3.217  | 62    | 277247   | 10.109   | ppbv   | 98       |
| 38) Trichloroethene           | 4.548  | 130   | 187209   | 9.366    | ppbv   | 98       |
| 39) 1,2-Dichloropropane       | 4.315  | 63    | 164374   | 9.422    | ppbv   | 95       |
| 40) 1,4-Dioxane               | 4.583  | 88    | 82012    | 8.857    | ppbv # | 92       |
| 41) Tetrahydrofuran           | 3.052  | 42    | 188907   | 9.362    | ppbv   | 99       |
| 42) Bromodichloromethane      | 4.489  | 83    | 377092   | 9.974    | ppbv   | 98       |
| 43) Methyl Methacrylate       | 4.881  | 69    | 190156   | 9.377    | ppbv   | 100      |
| 44) 2,2,4-Trimethylpentane    | 4.638  | 57    | 769803   | 9.509    | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 6.415  | 75    | 204004   | 9.376    | ppbv   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042181.D  
 Acq On : 27 Mar 2025 14:39  
 Operator : SY/MD  
 Sample : VL0327ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0327ABS01

Quant Time: Mar 28 02:12:34 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 02:00:52 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) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.599  | 75   | 251694   | 9.437  | ppbv  | 97       |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 175509   | 9.517  | ppbv  | 99       |
| 48) Dibromochloromethane      | 7.386  | 129  | 310158   | 9.923  | ppbv  | 99       |
| 49) Bromoform                 | 9.483  | 173  | 279382   | 9.957  | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 481919   | 8.679  | ppbv  | 98       |
| 51) 2-Hexanone                | 7.435  | 43   | 395520   | 8.674  | ppbv  | 99       |
| 52) Tetrachloroethene         | 8.224  | 164  | 167015   | 8.791  | ppbv  | 95       |
| 53) Toluene                   | 6.930  | 91   | 540612   | 9.520  | ppbv  | 99       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 246519   | 9.589  | ppbv  | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 240905   | 9.677  | ppbv  | 96       |
| 57) Chlorobenzene             | 8.920  | 112  | 407816   | 9.507  | ppbv  | 98       |
| 58) Ethyl Benzene             | 9.354  | 91   | 769818   | 9.583  | ppbv  | 97       |
| 59) m/p-Xylene                | 9.551  | 91   | 1220553m | 19.028 | ppbv  |          |
| 60) o-Xylene                  | 9.962  | 91   | 612011   | 9.518  | ppbv  | 98       |
| 61) Styrene                   | 9.869  | 104  | 306658   | 9.639  | ppbv  | 99       |
| 62) Isopropylbenzene          | 10.539 | 105  | 923163   | 9.600  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.962  | 83   | 370486   | 9.483  | ppbv  | 99       |
| 64) n-propylbenzene           | 10.989 | 120  | 239652   | 9.682  | ppbv  | 98       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 828438   | 9.315  | ppbv  | 98       |
| 66) Benzyl Chloride           | 11.616 | 91   | 81404    | 8.627  | ppbv  | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 1155378  | 9.347  | ppbv  | 99       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 1011573  | 9.503  | ppbv  | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 1022935  | 9.397  | ppbv  | 99       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 713648   | 9.562  | ppbv  | 98       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 766720   | 9.576  | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 660905   | 9.451  | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 718683   | 8.921  | ppbv  | 97       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 415378   | 9.401  | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 418670   | 9.521  | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 401634   | 9.336  | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 346566   | 7.914  | ppbv  | 100      |
| 79) Naphthalene               | 13.513 | 128  | 762976   | 8.659  | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 308264   | 7.134  | ppbv  | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 356193   | 8.764  | ppbv  | 99       |

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



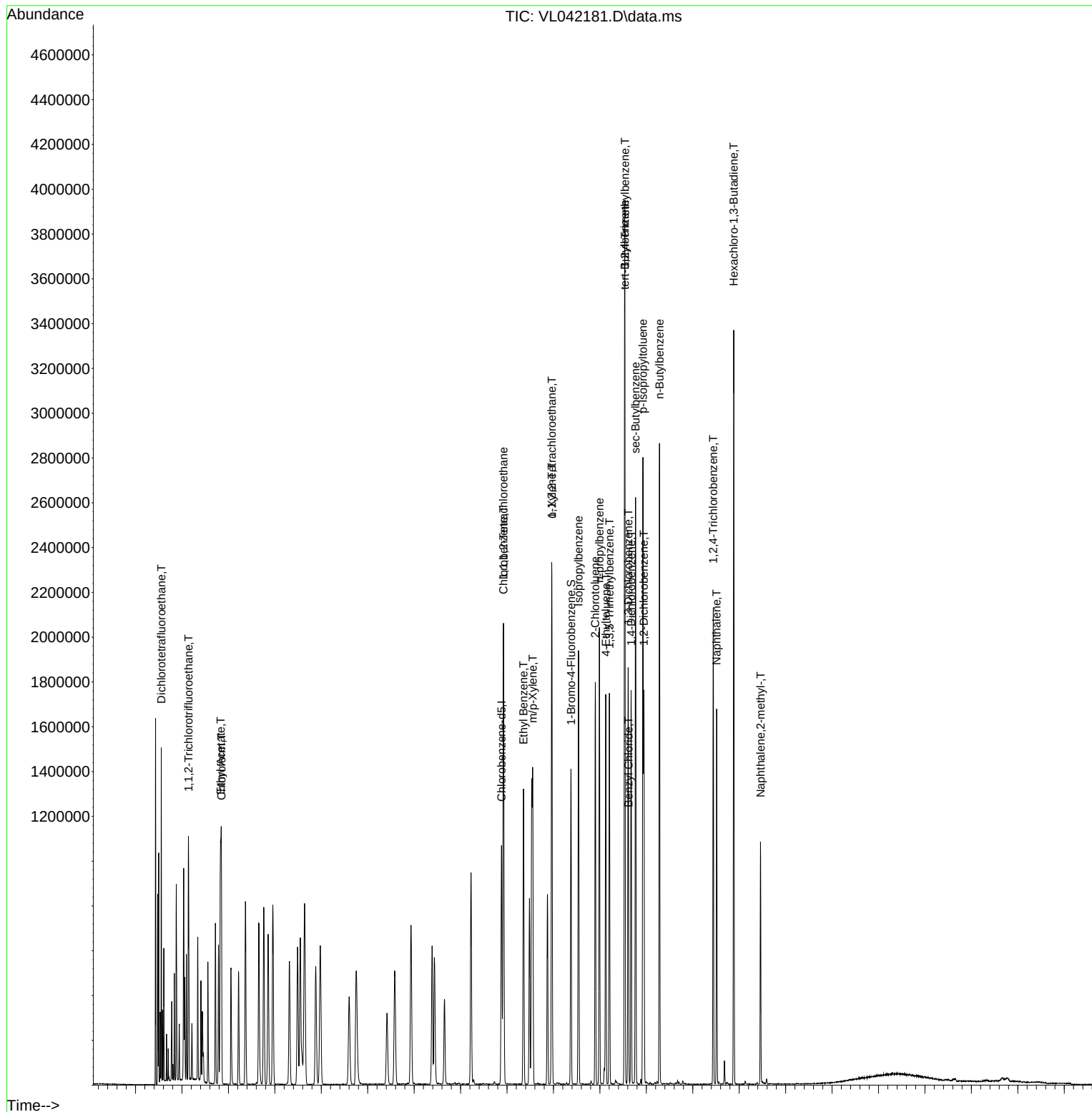
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Data File : VL042181.D  
Acq On : 27 Mar 2025 14:39  
Operator : SY/MD  
Sample : VL0327ABS01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

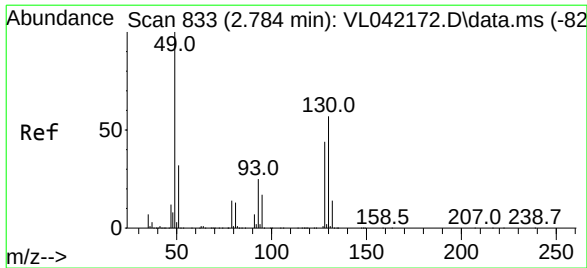
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MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Quant Time: Mar 28 02:12:34 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 02:00:52 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

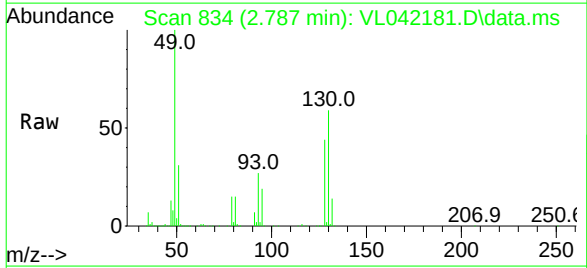
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 833  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

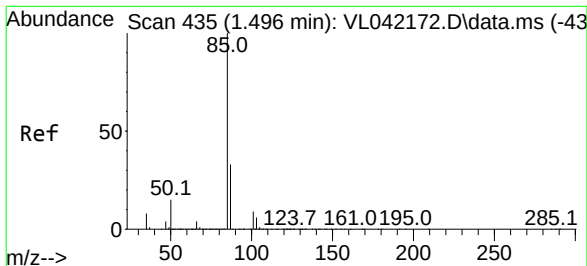
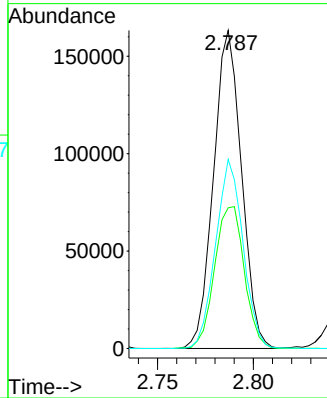
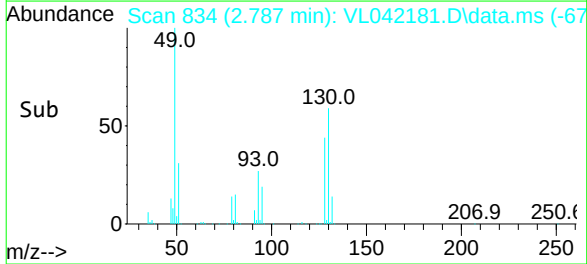
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



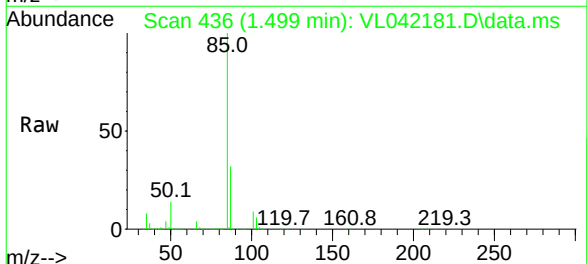
Tgt Ion: 49 Resp: 166105  
Ion Ratio Lower Upper  
49 100  
128 47.4 22.9 68.5  
130 58.3 28.8 86.4

Manual Integrations  
APPROVED

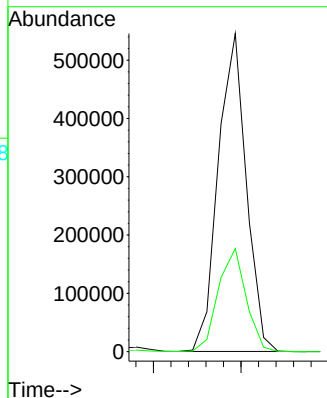
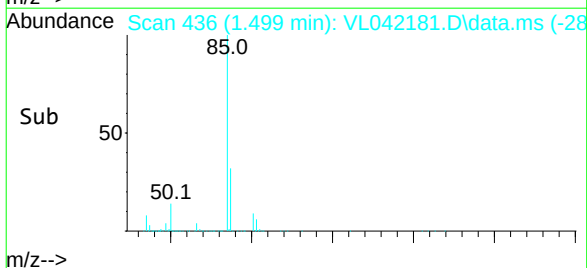
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

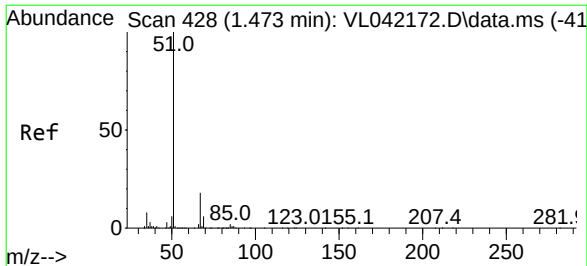


#2  
Dichlorodifluoromethane  
Concen: 9.911 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39



Tgt Ion: 85 Resp: 243063  
Ion Ratio Lower Upper  
85 100  
87 32.4 26.1 39.1





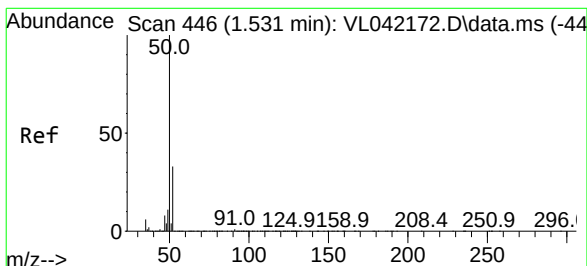
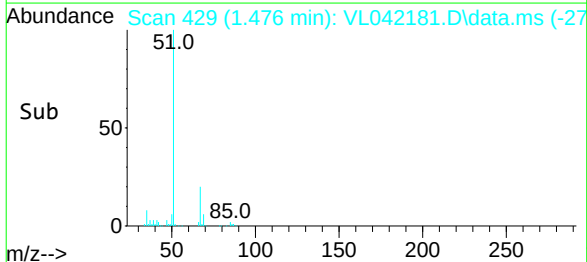
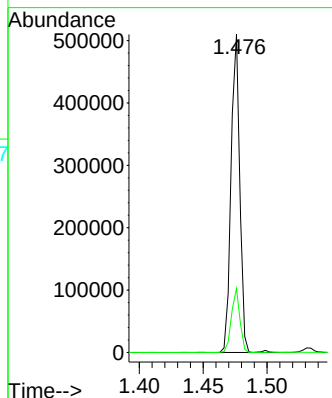
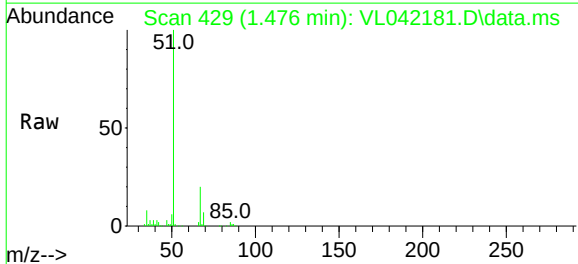
#3  
Chlorodifluoromethane  
Concen: 9.638 ppbv  
RT: 1.476 min Scan# 428  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion: 51 Resp: 241481  
Ion Ratio Lower Upper  
51 100  
67 19.4 15.0 22.6

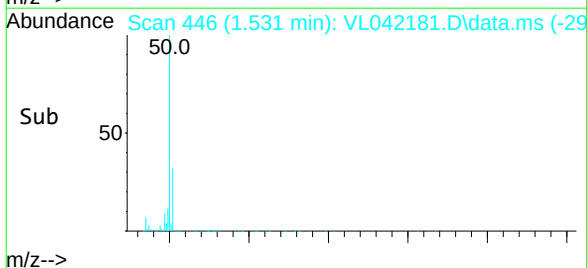
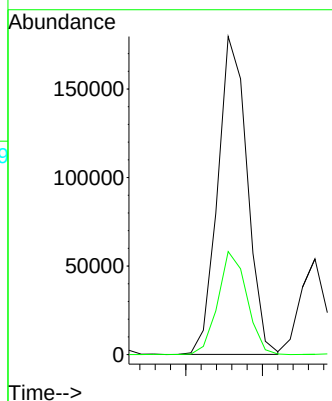
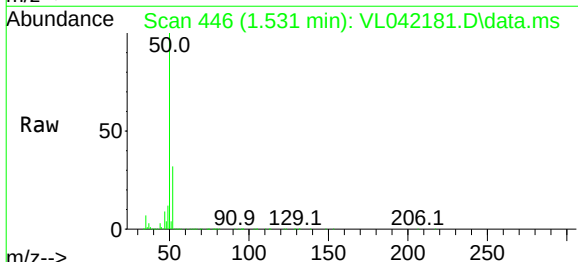
Manual Integrations  
APPROVED

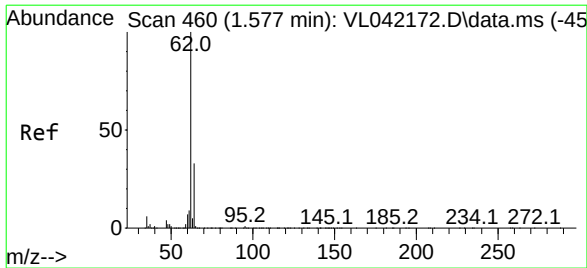
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#4  
Chloromethane  
Concen: 9.602 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 50 Resp: 96241  
Ion Ratio Lower Upper  
50 100  
52 32.2 26.1 39.1





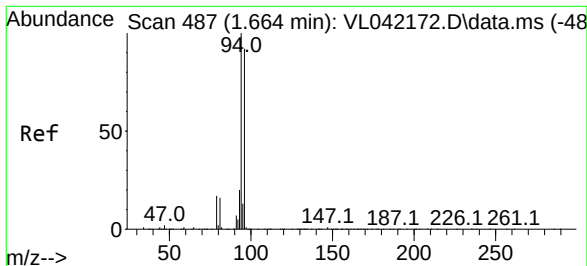
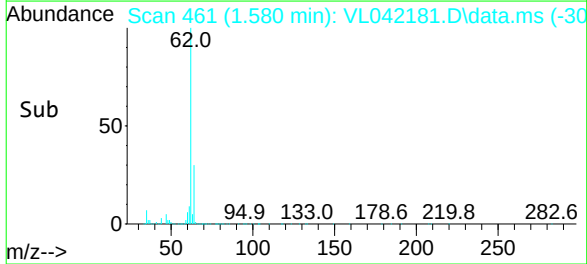
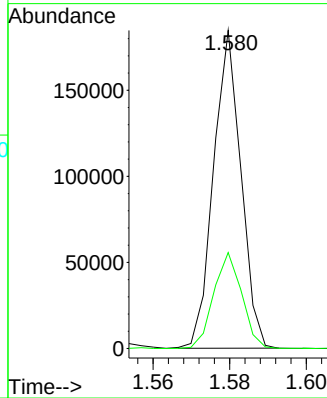
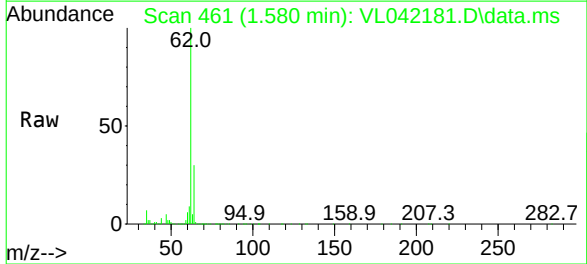
#5  
 Vinyl Chloride  
 Concen: 8.649 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0327ABS01

Tgt Ion: 62 Resp: 91865  
 Ion Ratio Lower Upper  
 62 100  
 64 30.2 26.6 40.0

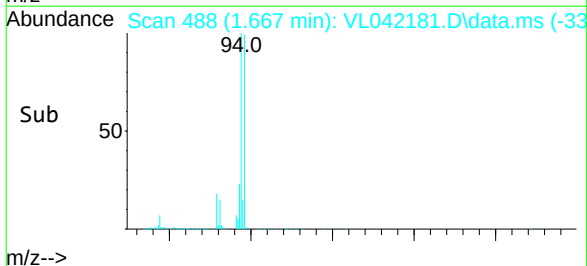
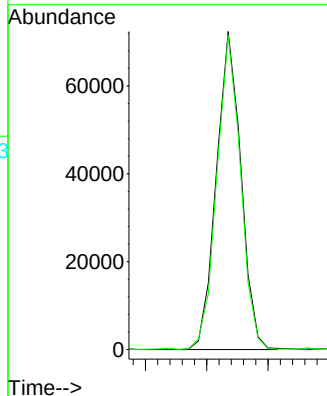
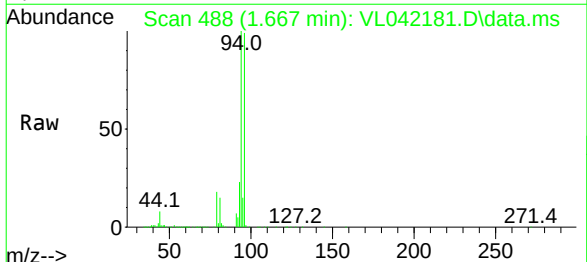
Manual Integrations  
 APPROVED

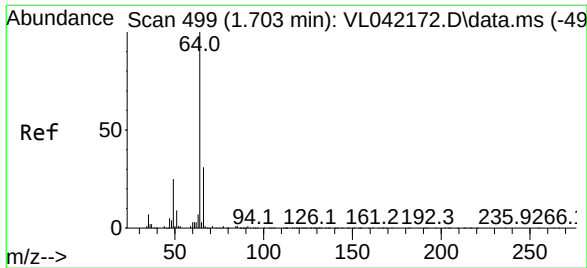
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#6  
 Bromomethane  
 Concen: 8.886 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Tgt Ion: 94 Resp: 40361  
 Ion Ratio Lower Upper  
 94 100  
 96 98.7 73.1 109.7





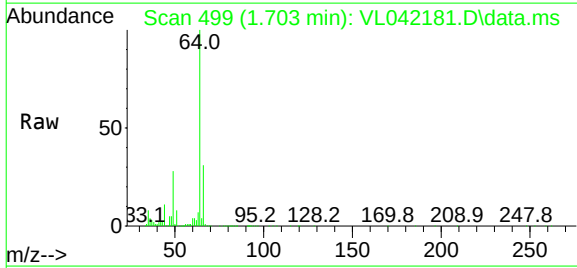
#7  
 Chloroethane  
 Concen: 9.273 ppbv  
 RT: 1.703 min Scan# 49  
 Delta R.T. -0.000 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_L

ClientSampleId :

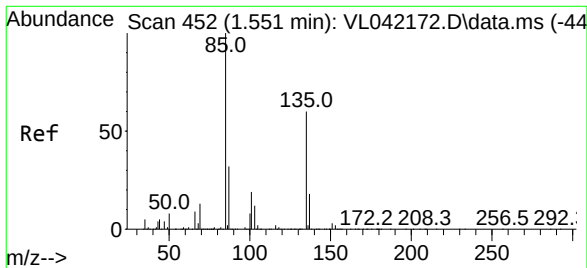
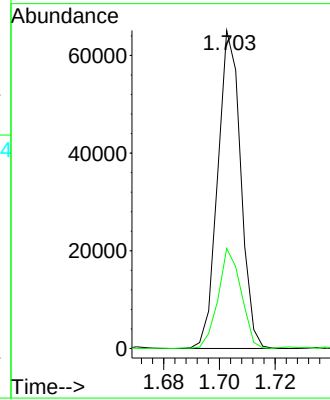
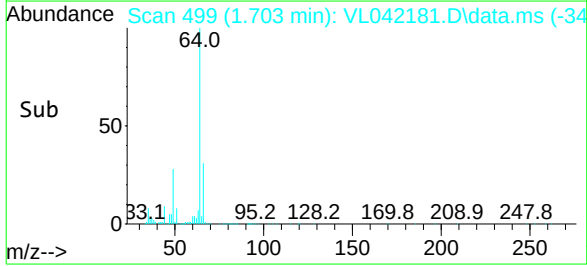
VL0327ABS01



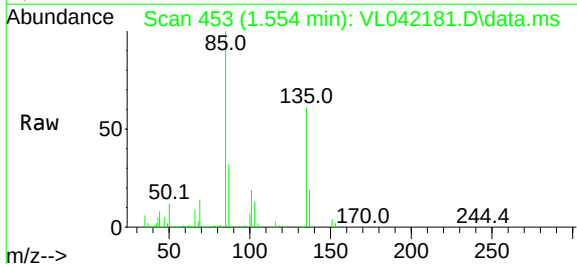
Tgt Ion: 64 Resp: 37307  
 Ion Ratio Lower Upper  
 64 100  
 66 31.5 25.2 37.8

Manual Integrations  
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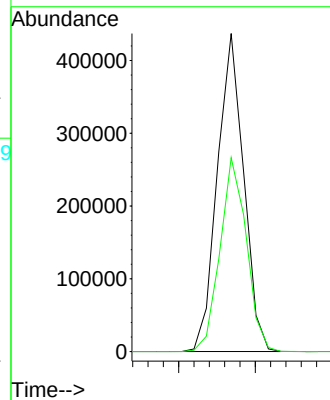
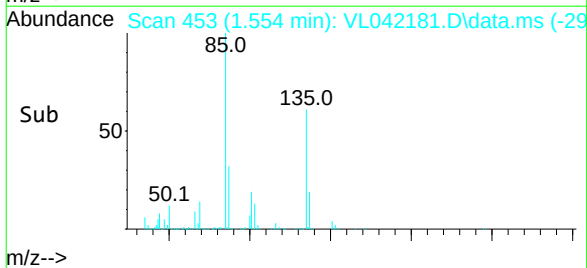
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

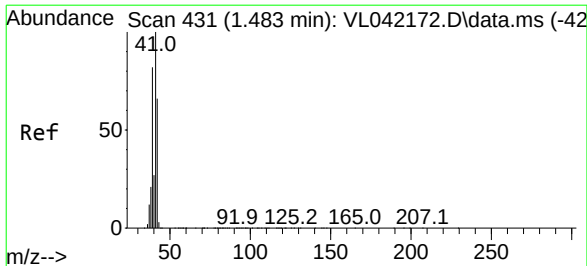


#8  
 Dichlorotetrafluoroethane  
 Concen: 10.006 ppbv  
 RT: 1.554 min Scan# 453  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39



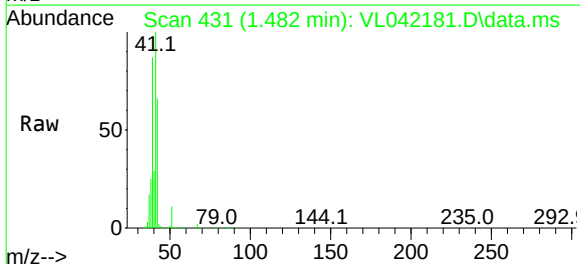
Tgt Ion: 85 Resp: 208981  
 Ion Ratio Lower Upper  
 85 100  
 135 61.1 52.4 78.6





#9  
 Propene  
 Concen: 8.957 ppbv  
 RT: 1.482 min Scan# 431  
 Delta R.T. -0.000 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

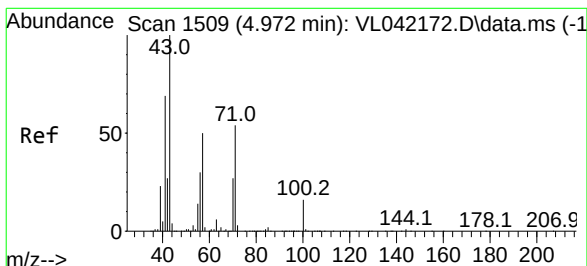
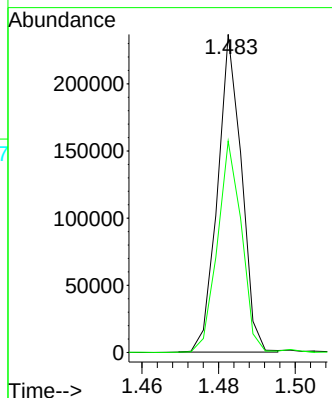
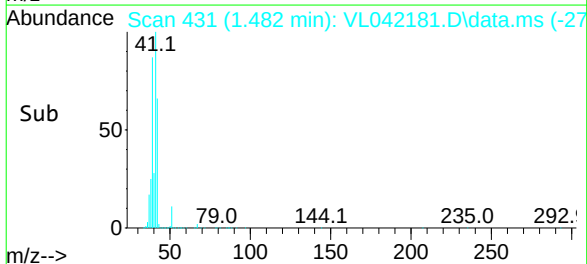
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0327ABS01



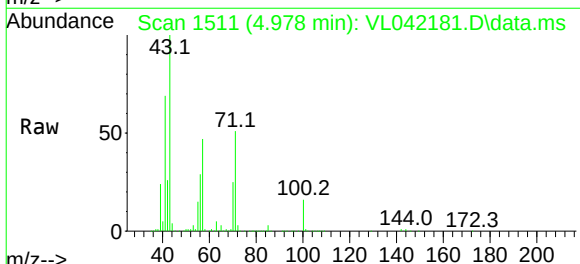
Tgt Ion: 41 Resp: 102862  
 Ion Ratio Lower Upper  
 41 100  
 42 68.5 55.4 83.2

Manual Integrations  
 APPROVED

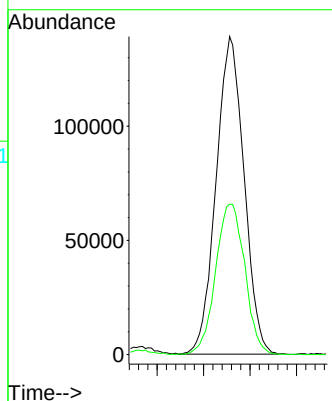
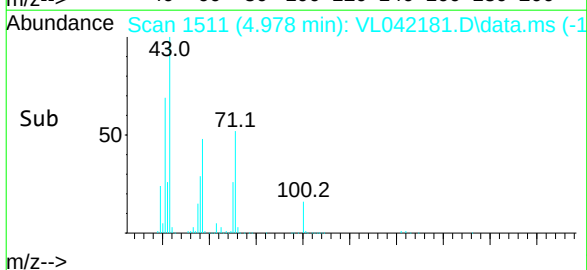
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

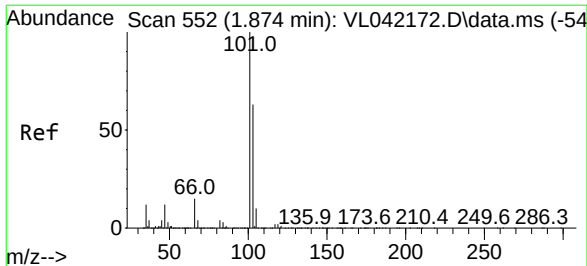


#10  
 Heptane  
 Concen: 9.514 ppbv  
 RT: 4.978 min Scan# 1511  
 Delta R.T. 0.006 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39



Tgt Ion: 43 Resp: 290621  
 Ion Ratio Lower Upper  
 43 100  
 57 49.6 39.4 59.2





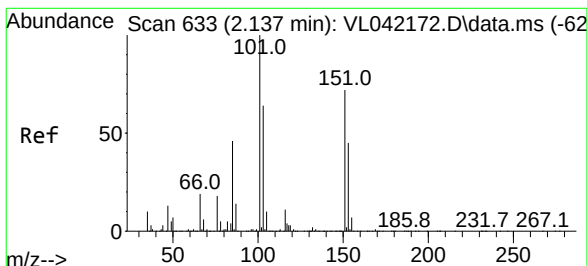
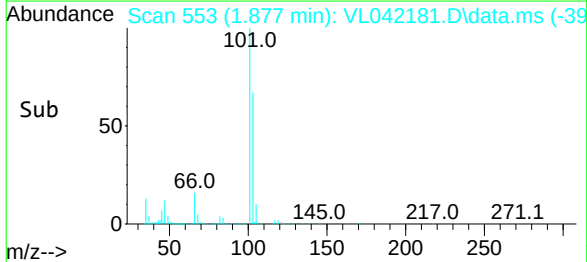
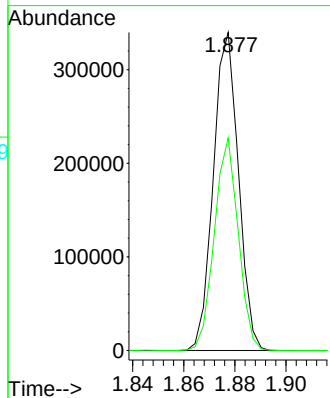
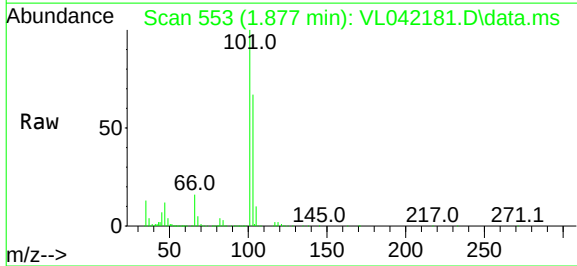
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Trichlorofluoromethane  
Concen: 9.725 ppbv  
RT: 1.877 min Scan# 552  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion:101 Resp: 232086  
Ion Ratio Lower Upper  
101 100  
103 66.8 50.2 75.2

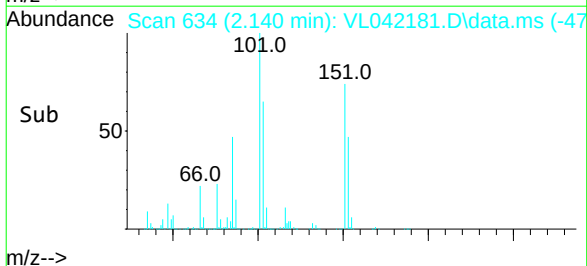
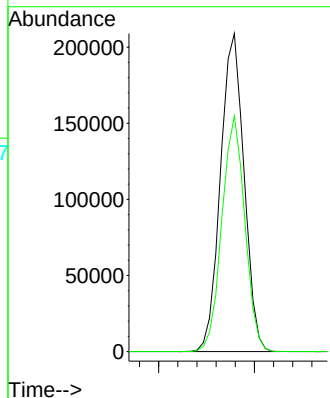
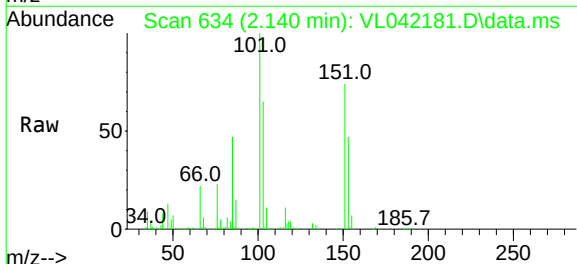
Manual Integrations  
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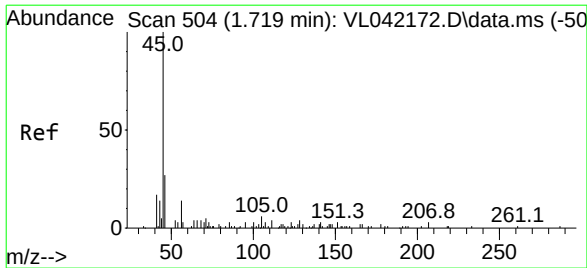
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.115 ppbv  
RT: 2.140 min Scan# 634  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion:101 Resp: 178792  
Ion Ratio Lower Upper  
101 100  
151 71.9 57.1 85.7





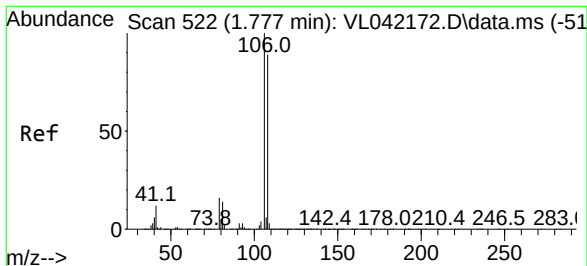
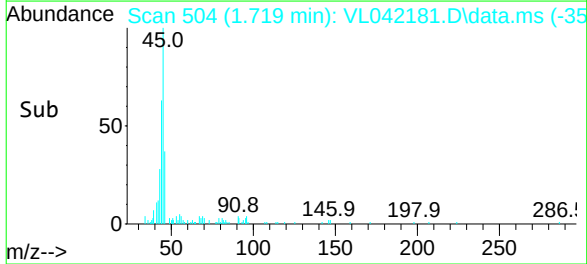
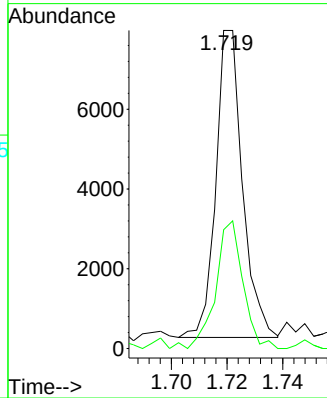
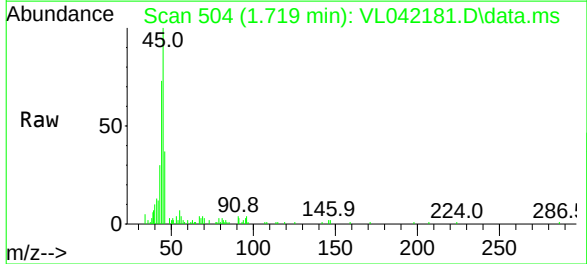
#13  
Ethanol  
Concen: 4.720 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion: 45 Resp: 5124  
Ion Ratio Lower Upper  
45 100  
46 45.5 20.2 80.8

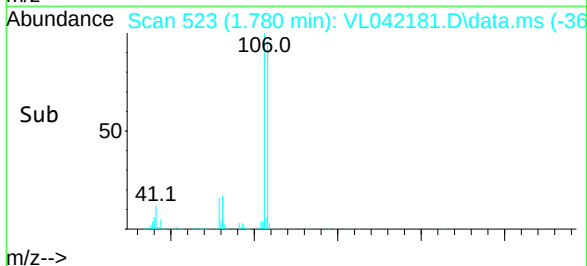
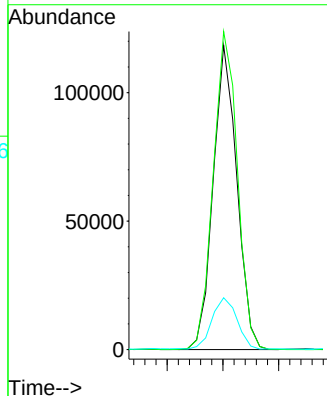
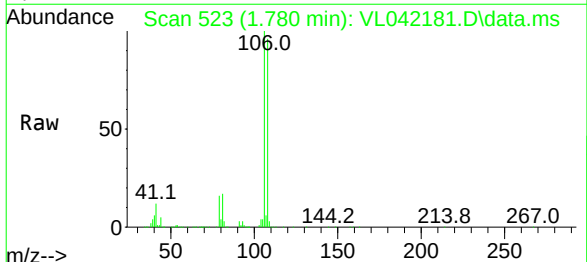
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

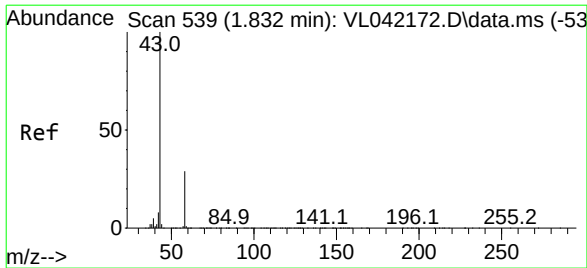


#14  
Bromoethene  
Concen: 9.286 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion:108 Resp: 69775  
Ion Ratio Lower Upper  
108 100  
106 106.9 86.8 130.2  
79 18.1 15.0 22.6







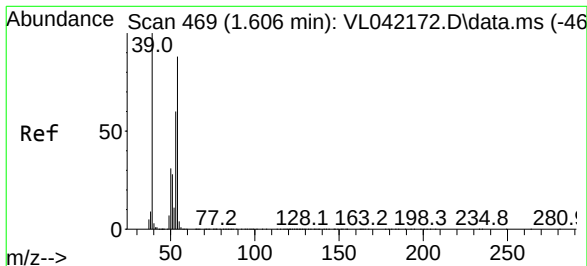
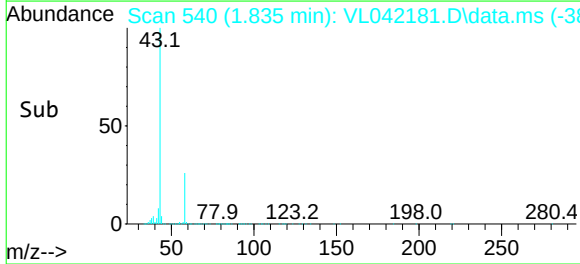
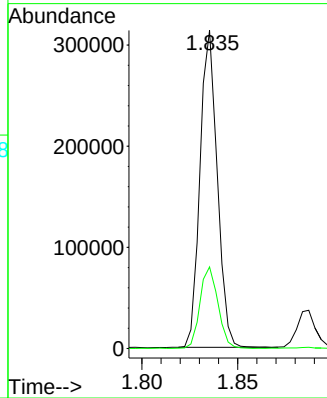
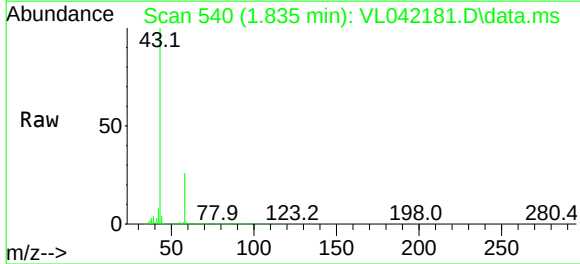
#15  
Acetone  
Concen: 8.425 ppbv  
RT: 1.835 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion: 43 Resp: 195717  
Ion Ratio Lower Upper  
43 100  
58 27.1 23.2 34.8

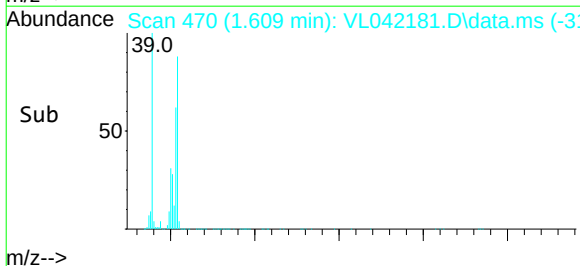
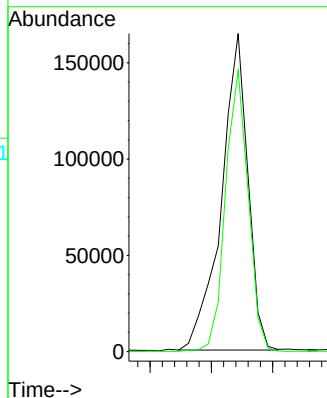
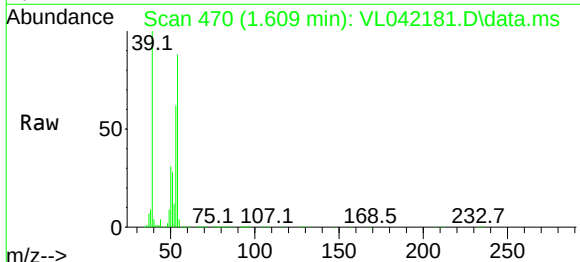
Manual Integrations  
APPROVED

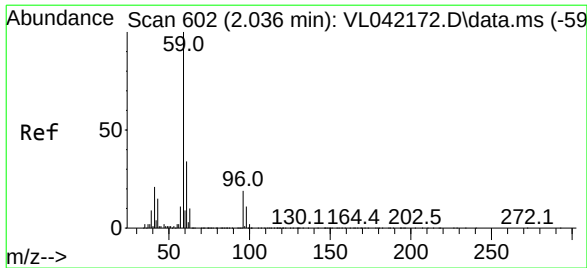
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#16  
1,3-Butadiene  
Concen: 8.716 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 39 Resp: 98877  
Ion Ratio Lower Upper  
39 100  
54 76.1 60.7 91.1





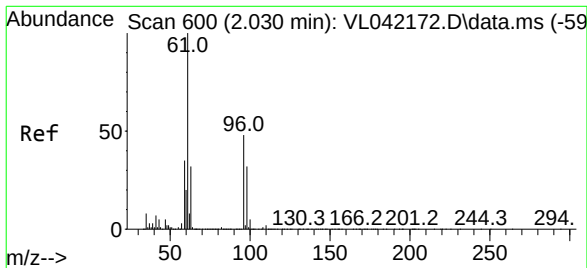
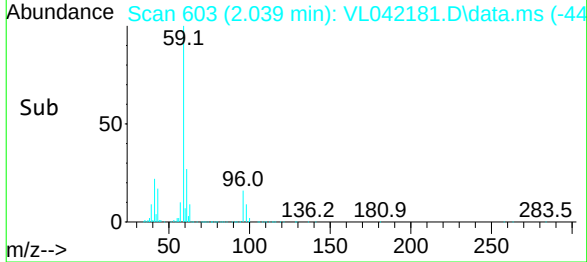
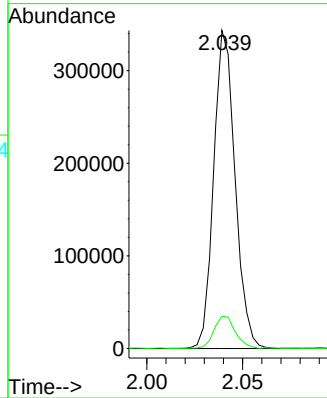
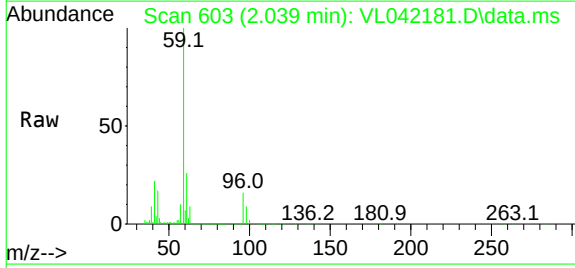
#17  
tert-Butyl alcohol  
Concen: 9.208 ppbv  
RT: 2.039 min Scan# 601  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion: 59 Resp: 266424  
Ion Ratio Lower Upper  
59 100  
57 10.3 8.9 13.3

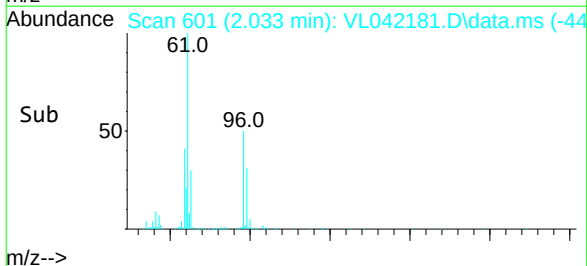
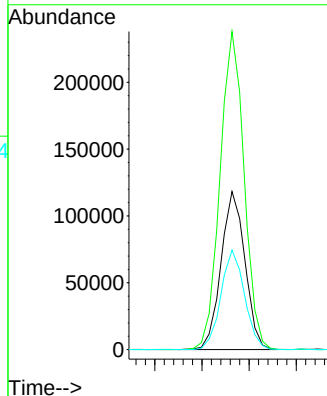
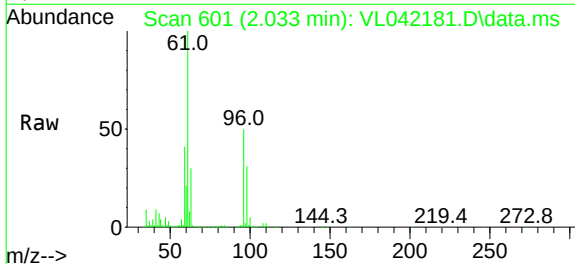
Manual Integrations  
APPROVED

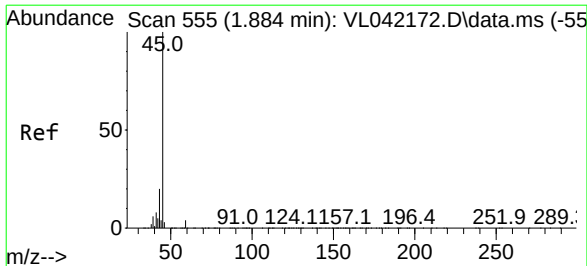
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#18  
1,1-Dichloroethene  
Concen: 9.088 ppbv  
RT: 2.033 min Scan# 601  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 96 Resp: 83339  
Ion Ratio Lower Upper  
96 100  
61 201.2 167.6 251.4  
98 62.9 53.5 80.3





#19  
Isopropyl Alcohol  
Concen: 9.230 ppbv  
RT: 1.884 min Scan# 555  
Delta R.T. -0.000 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_L

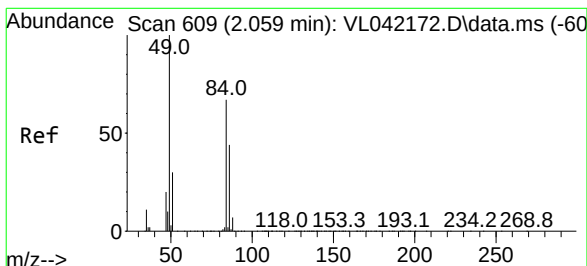
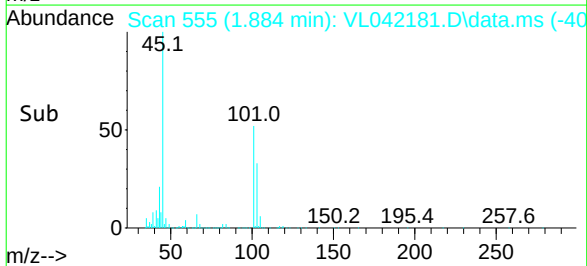
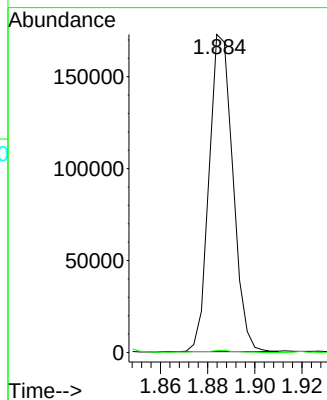
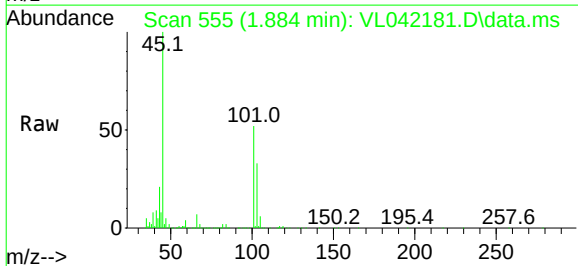
ClientSampleId :

VL0327ABS01

Tgt Ion: 45 Resp: 120986  
Ion Ratio Lower Upper  
45 100  
58 43.8 36.9 55.3

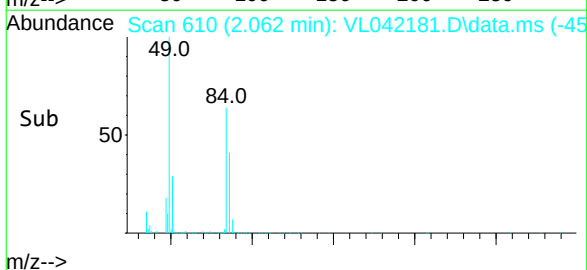
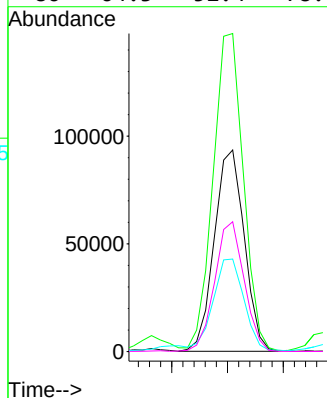
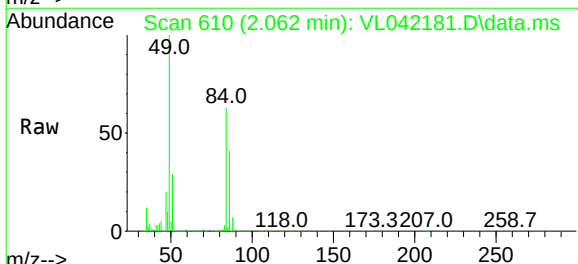
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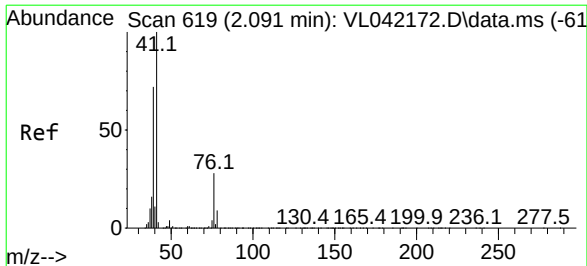
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#20  
Methylene Chloride  
Concen: 8.083 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 84 Resp: 69930  
Ion Ratio Lower Upper  
84 100  
49 157.4 120.2 180.4  
51 45.2 37.4 56.0  
86 64.3 52.4 78.6





#21  
 Allyl Chloride  
 Concen: 9.022 ppbv  
 RT: 2.094 min Scan# 621  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_L

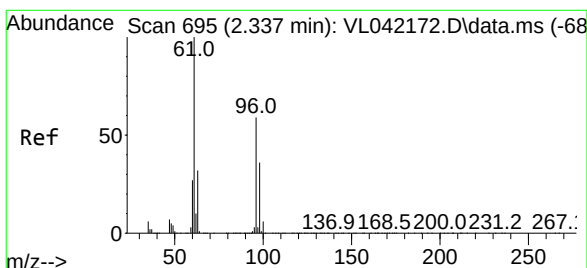
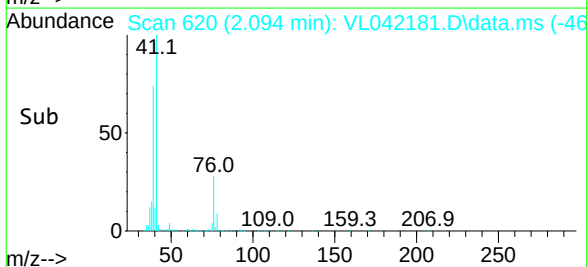
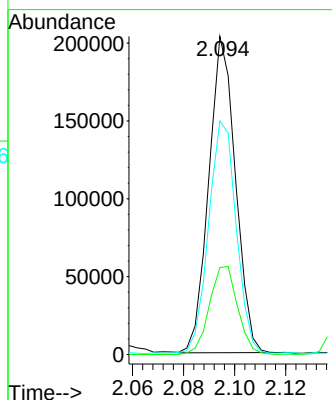
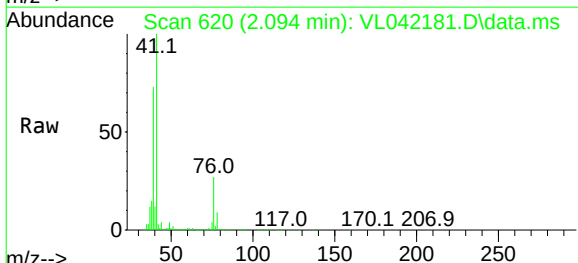
ClientSampleId :

VL0327ABS01

Tgt Ion: 41 Resp: 147816  
 Ion Ratio Lower Upper  
 41 100  
 76 29.4 24.1 36.1  
 39 76.2 61.1 91.7

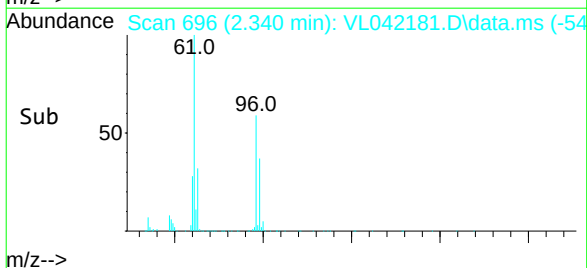
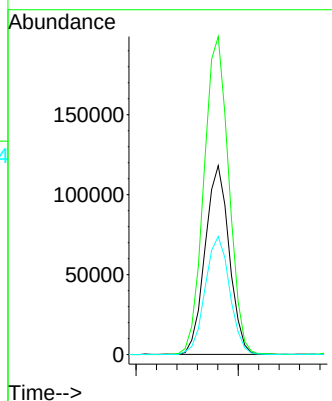
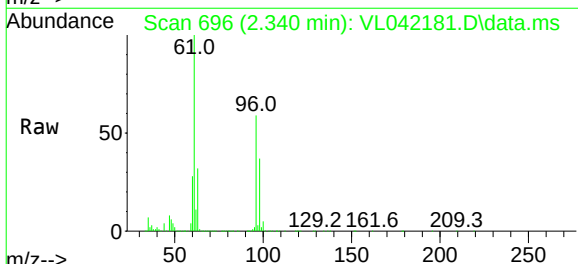
Manual Integrations  
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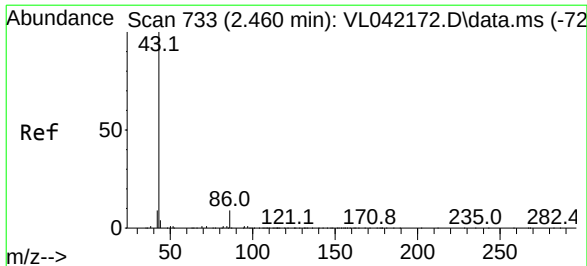
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.116 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Tgt Ion: 96 Resp: 96616  
 Ion Ratio Lower Upper  
 96 100  
 61 168.4 136.6 204.8  
 98 62.5 49.4 74.2





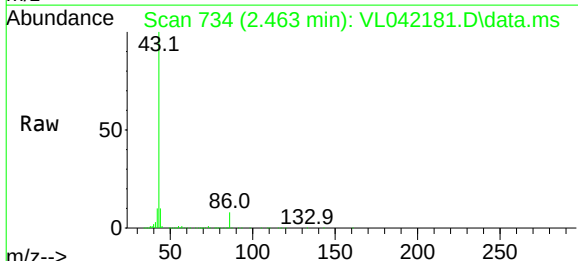
#23  
 Vinyl Acetate  
 Concen: 9.418 ppbv  
 RT: 2.463 min Scan# 733  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_L

ClientSampleId :

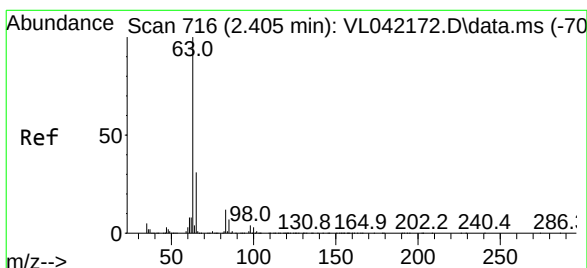
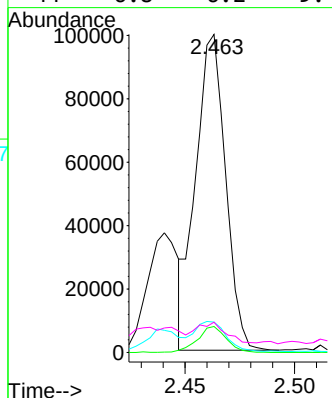
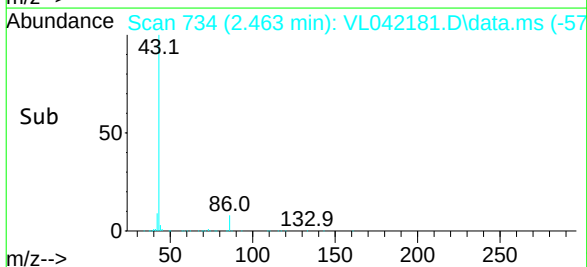
VL0327ABS01



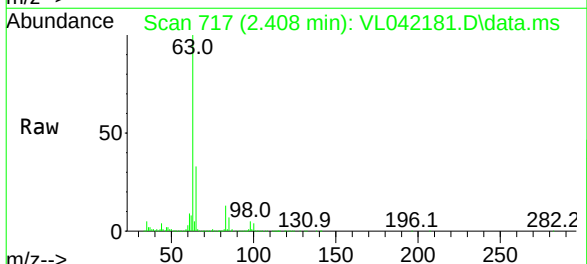
| Tgt Ion: | 43    | Resp: | 94696 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 8.2   | 5.5   | 8.3   |
| 42       | 9.2   | 8.6   | 13.0  |
| 44       | 6.8   | 6.2   | 9.4   |

Manual Integrations  
 APPROVED

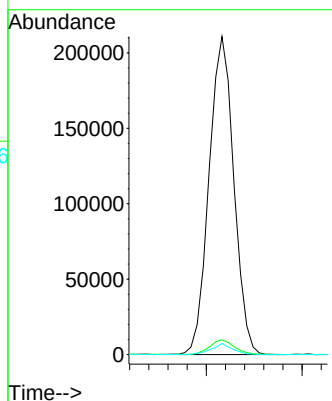
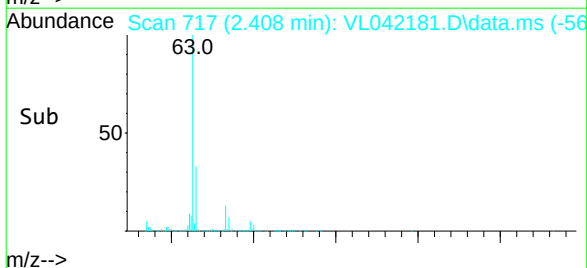
Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

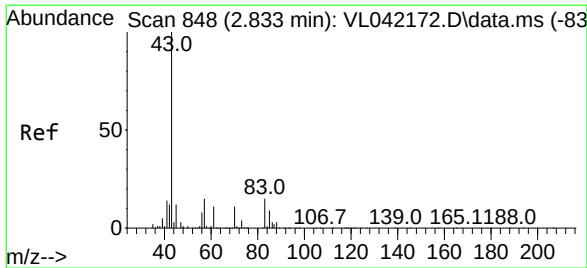


#24  
 1,1-Dichloroethane  
 Concen: 9.661 ppbv  
 RT: 2.408 min Scan# 717  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39



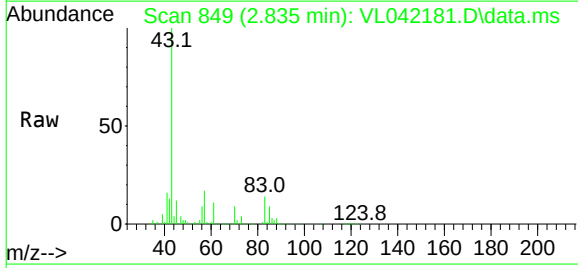
| Tgt Ion: | 63    | Resp: | 189793 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 4.5   | 2.3   | 6.8    |
| 100      | 3.5   | 1.6   | 4.7    |





#25  
Ethyl Acetate  
Concen: 9.528 ppbv  
RT: 2.835 min Scan# 84  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

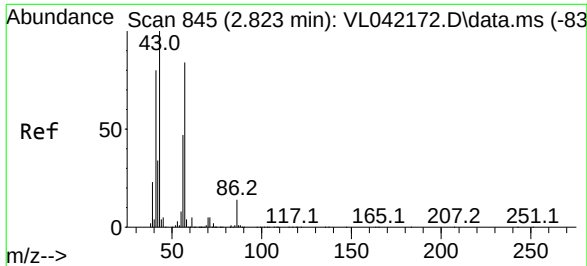
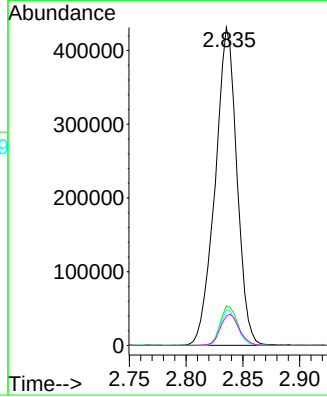
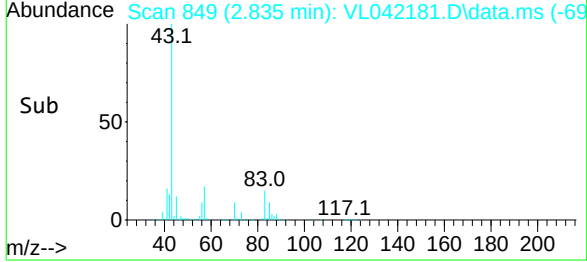
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



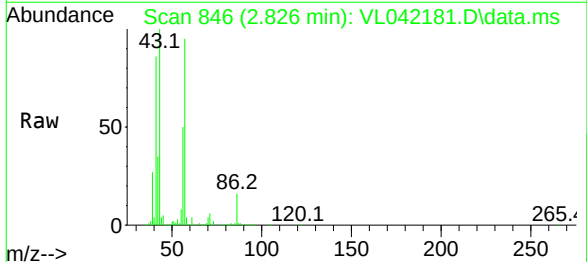
Tgt Ion: 43 Resp: 574442  
Ion Ratio Lower Upper  
43 100  
45 10.1 8.2 12.2  
61 9.0 7.3 10.9  
70 8.6 7.2 10.8

Manual Integrations  
APPROVED

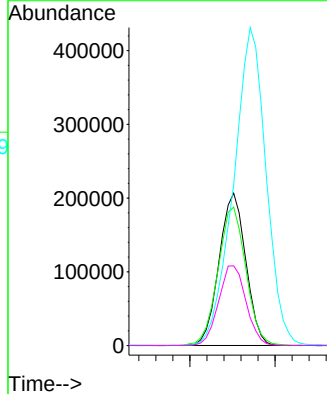
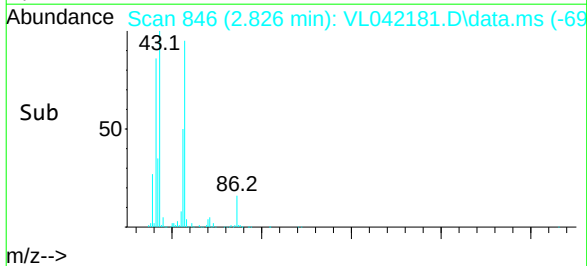
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

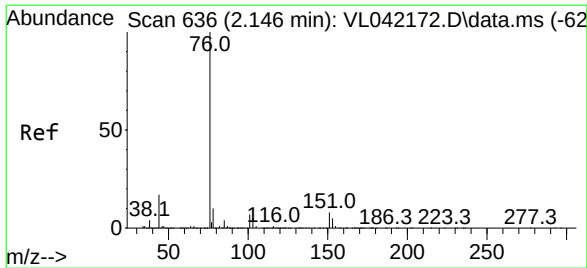


#26  
Hexane  
Concen: 9.649 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39



Tgt Ion: 57 Resp: 224704  
Ion Ratio Lower Upper  
57 100  
41 95.3 76.6 114.8  
43 255.9 207.8 311.8  
56 54.2 43.6 65.4





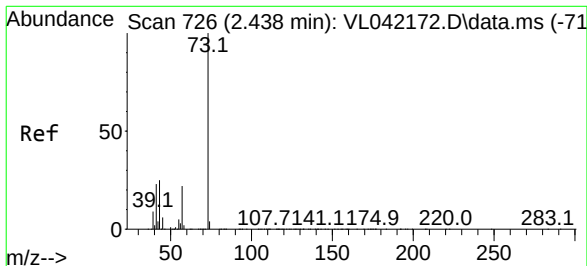
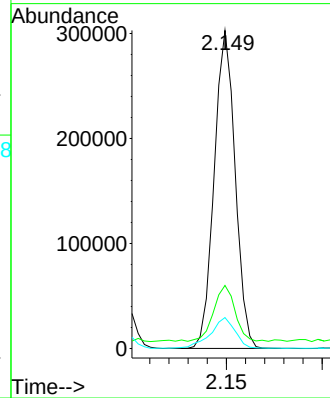
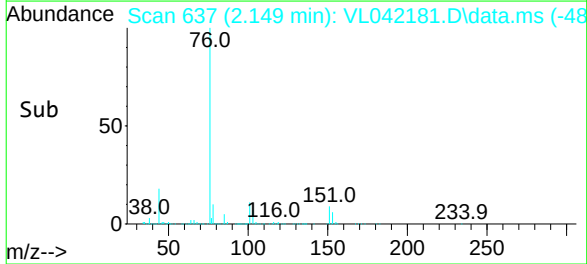
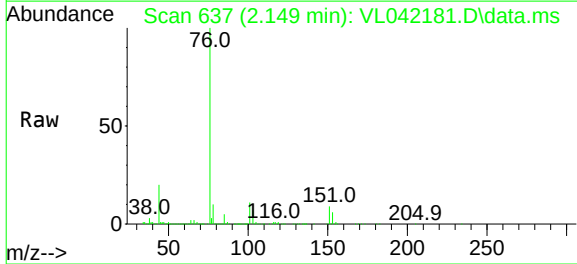
#27  
Carbon Disulfide  
Concen: 9.226 ppbv  
RT: 2.149 min Scan# 636  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion: 76 Resp: 230410  
Ion Ratio Lower Upper  
76 100  
44 22.5 14.7 22.1  
78 11.5 9.3 13.9

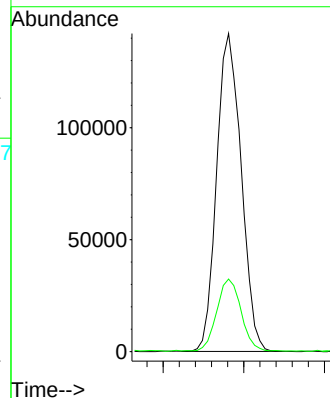
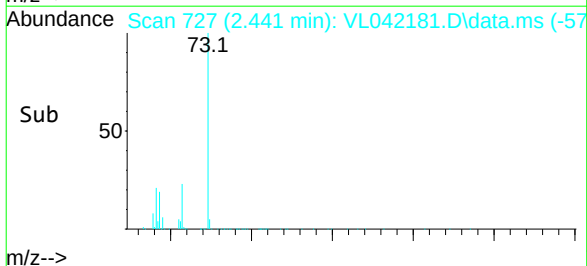
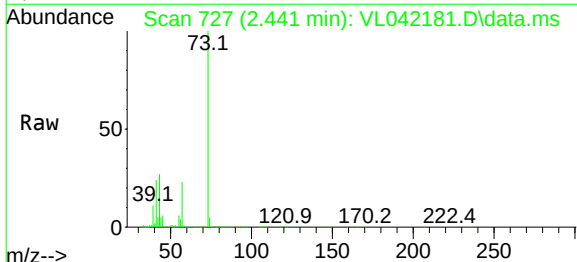
Manual Integrations  
APPROVED

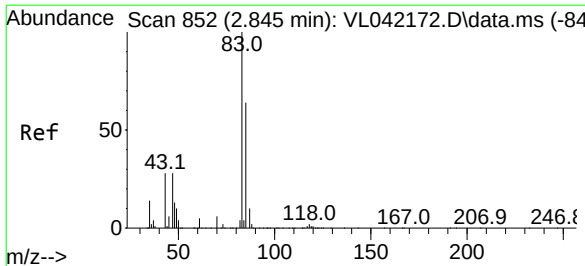
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#28  
Methyl tert-Butyl Ether  
Concen: 10.342 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

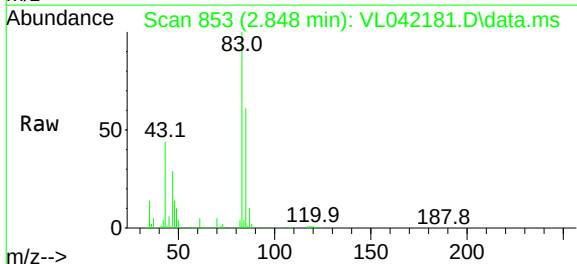
Tgt Ion: 73 Resp: 149961  
Ion Ratio Lower Upper  
73 100  
57 23.0 20.5 30.7





#29  
Chloroform  
Concen: 9.870 ppbv  
RT: 2.848 min Scan# 85  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

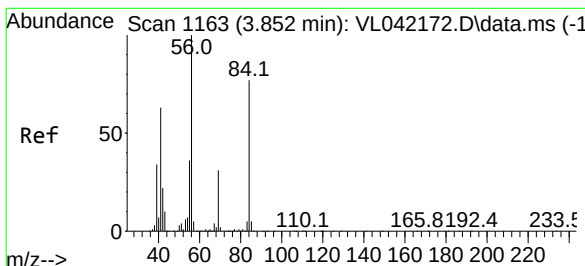
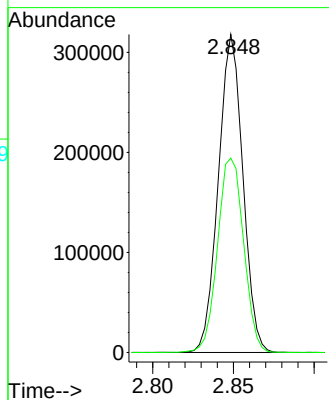
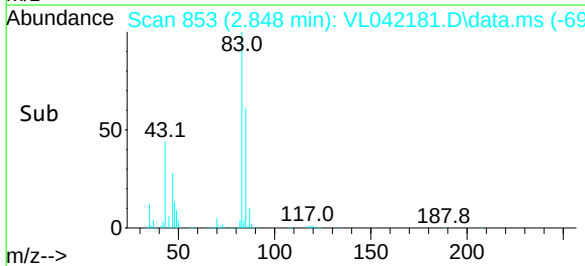
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



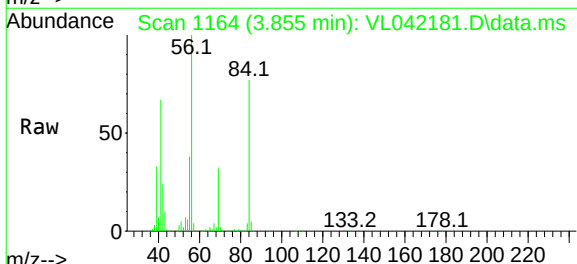
Tgt Ion: 83 Resp: 336404  
Ion Ratio Lower Upper  
83 100  
85 61.0 51.4 77.2

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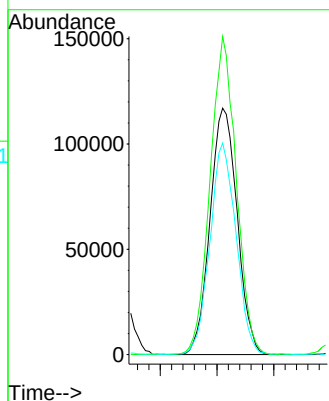
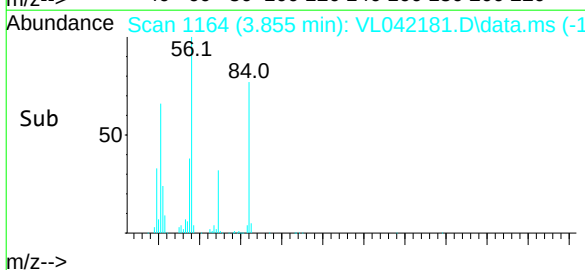
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



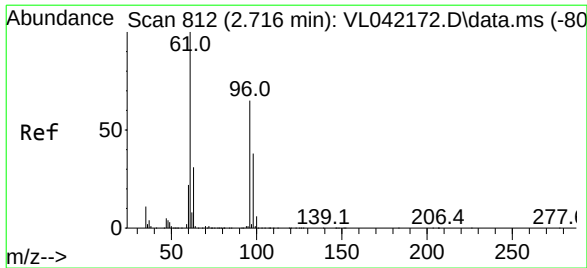
#30  
Cyclohexane  
Concen: 9.604 ppbv  
RT: 3.855 min Scan# 1164  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39



Tgt Ion: 84 Resp: 194220  
Ion Ratio Lower Upper  
84 100  
56 124.4 102.8 154.2  
41 82.7 66.5 99.7







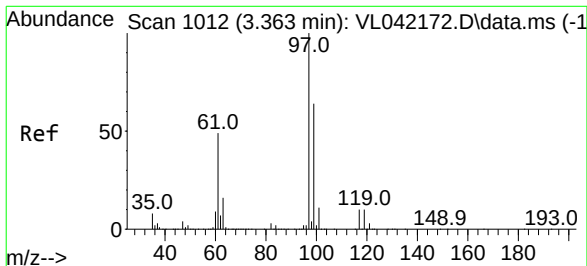
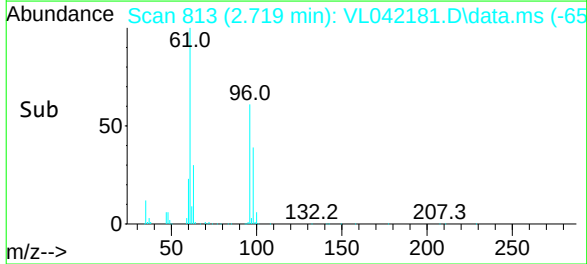
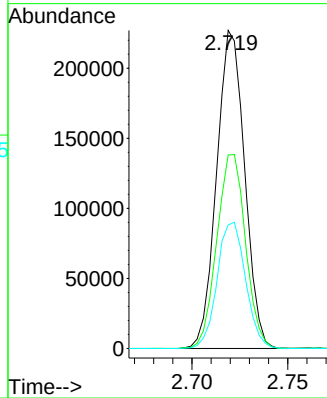
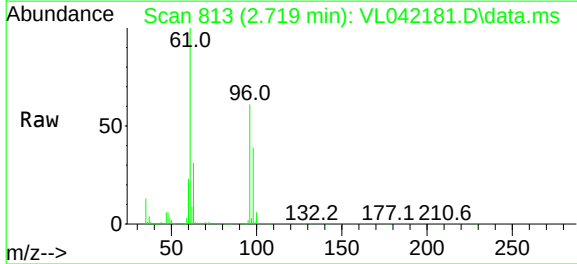
#31  
cis-1,2-Dichloroethene  
Concen: 9.777 ppbv  
RT: 2.719 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion: 61 Resp: 231151  
Ion Ratio Lower Upper  
61 100  
96 60.8 51.8 77.8  
98 38.8 30.6 46.0

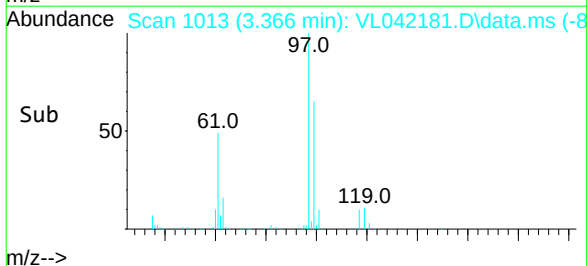
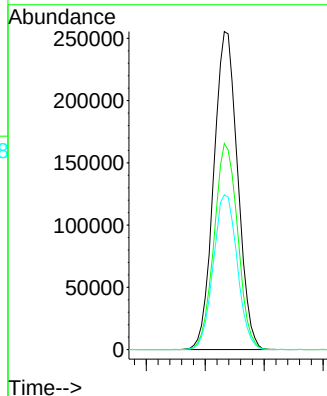
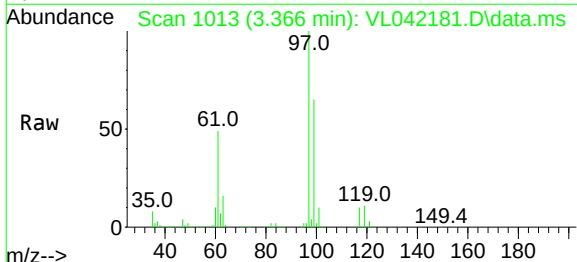
Manual Integrations  
APPROVED

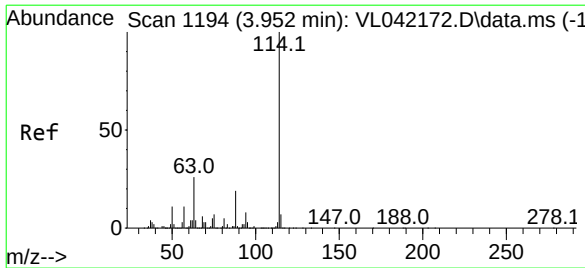
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#32  
1,1,1-Trichloroethane  
Concen: 9.223 ppbv  
RT: 3.366 min Scan# 1013  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

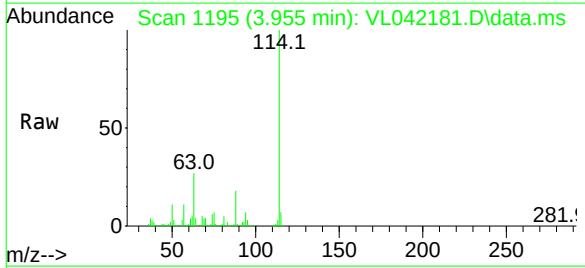
Tgt Ion: 97 Resp: 359860  
Ion Ratio Lower Upper  
97 100  
99 63.9 51.5 77.3  
61 48.9 38.7 58.1





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.955 min Scan# 1195  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

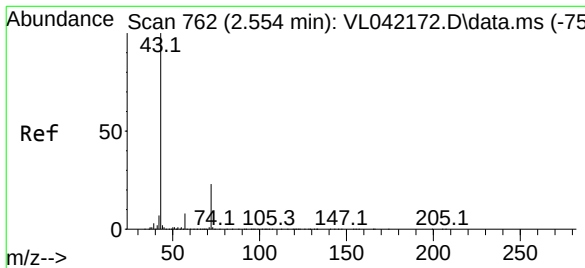
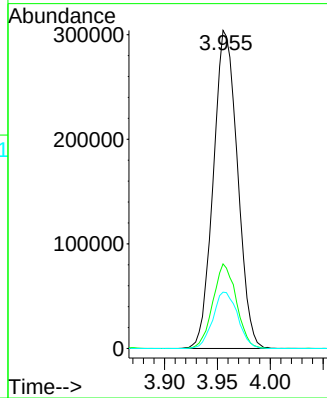
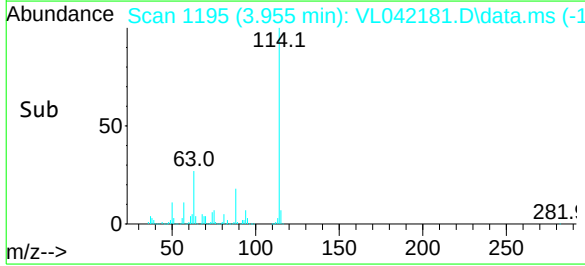
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



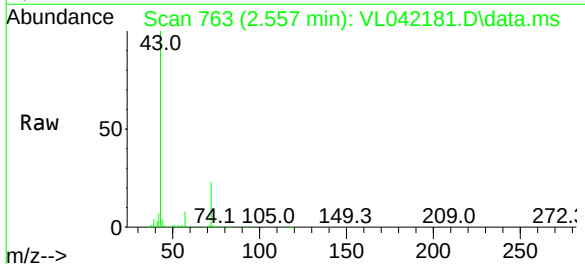
Tgt Ion: 114 Resp: 483209  
Ion Ratio Lower Upper  
114 100  
63 25.9 20.7 31.1  
88 18.1 15.0 22.4

Manual Integrations  
APPROVED

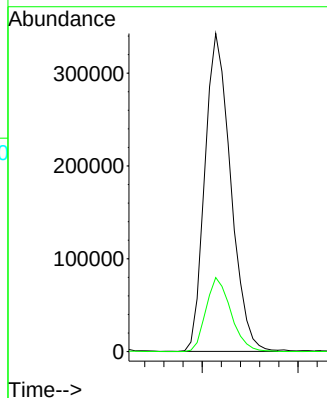
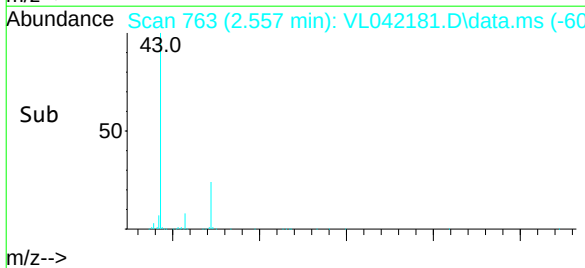
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

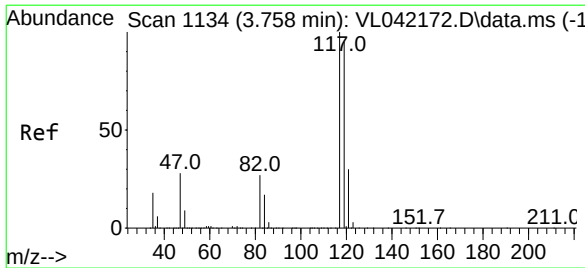


#34  
2-Butanone  
Concen: 9.157 ppbv  
RT: 2.557 min Scan# 763  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39



Tgt Ion: 43 Resp: 320843  
Ion Ratio Lower Upper  
43 100  
72 22.6 18.2 27.2





#35

Carbon Tetrachloride

Concen: 9.565 ppbv

RT: 3.761 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_L

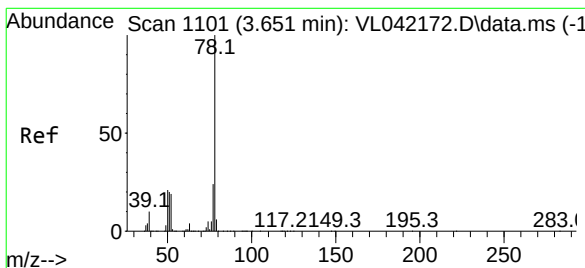
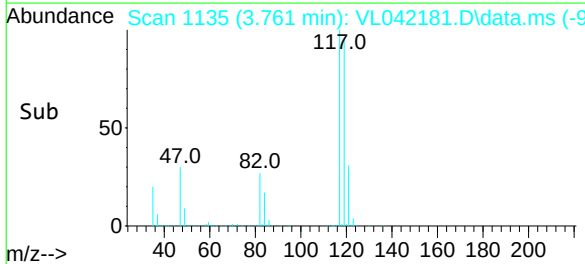
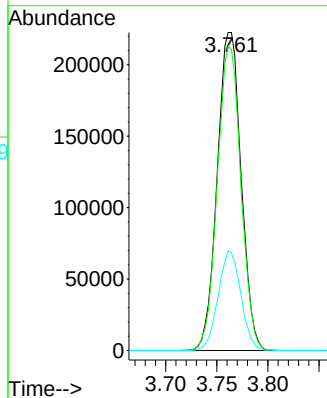
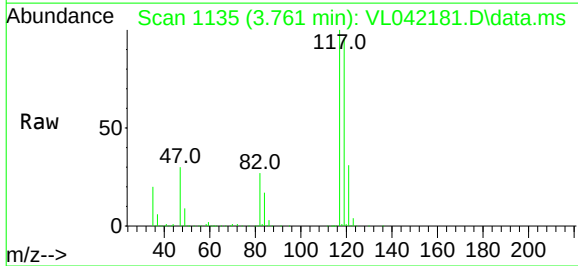
ClientSampleId :

VL0327ABS01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 361037 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 95.8  | 76.2  | 114.2  |
| 121      | 31.4  | 24.2  | 36.4   |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#36

Benzene

Concen: 9.450 ppbv

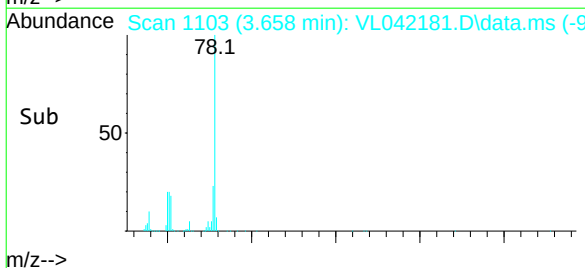
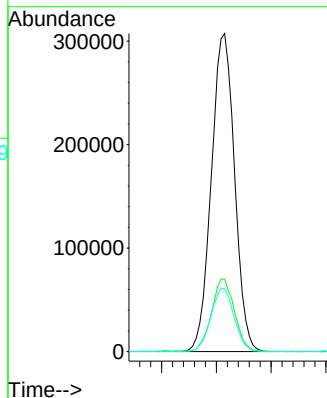
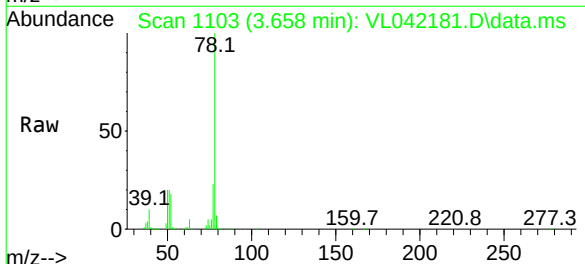
RT: 3.658 min Scan# 1103

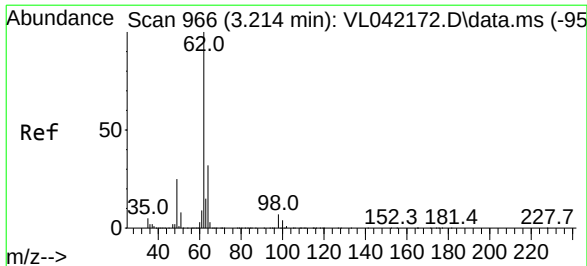
Delta R.T. 0.006 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

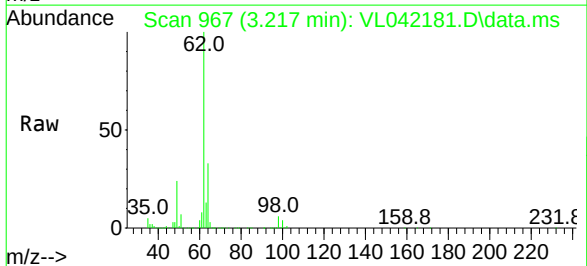
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 78    | Resp: | 452718 |
| Ion      | Ratio | Lower | Upper  |
| 78       | 100   |       |        |
| 77       | 22.7  | 19.1  | 28.7   |
| 50       | 19.7  | 16.6  | 24.8   |





#37  
1,2-Dichloroethane  
Concen: 10.109 ppbv  
RT: 3.217 min Scan# 966  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

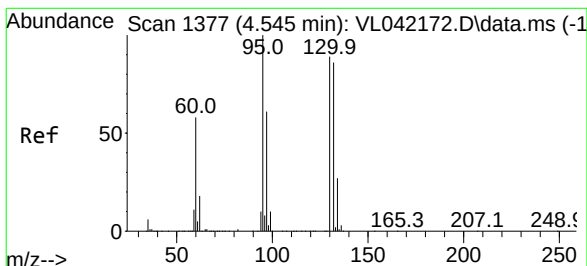
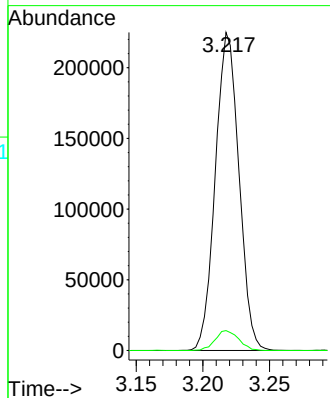
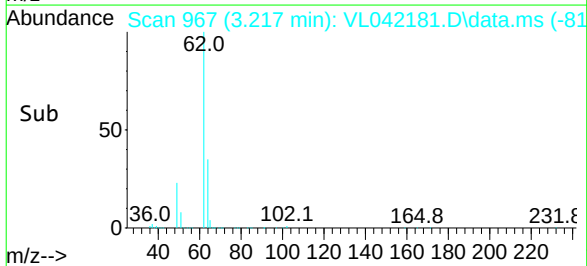
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



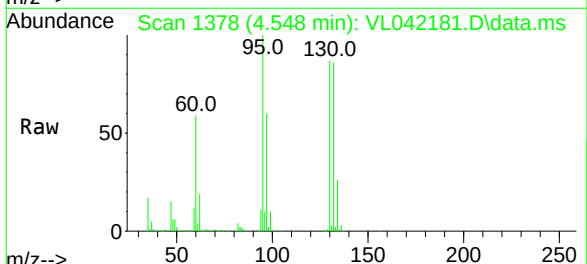
Tgt Ion: 62 Resp: 277247  
Ion Ratio Lower Upper  
62 100  
98 6.2 5.4 8.2

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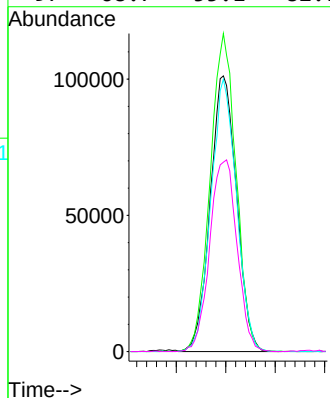
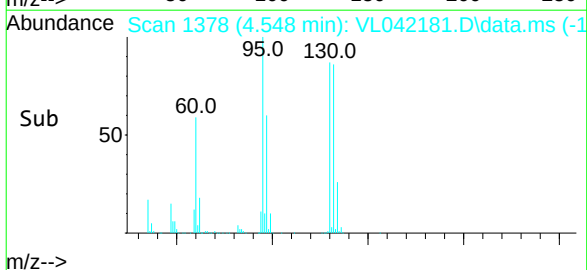
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

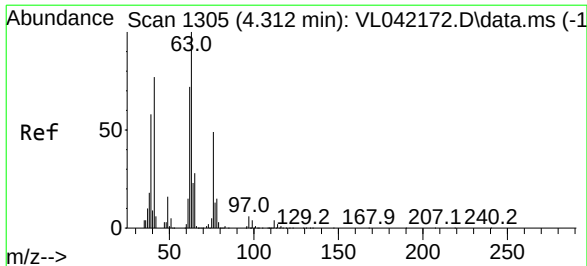


#38  
Trichloroethene  
Concen: 9.366 ppbv  
RT: 4.548 min Scan# 1378  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39



Tgt Ion:130 Resp: 187209  
Ion Ratio Lower Upper  
130 100  
95 115.3 89.8 134.8  
132 98.7 77.4 116.2  
97 68.7 55.1 82.7





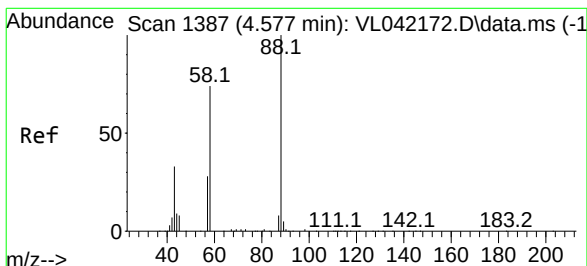
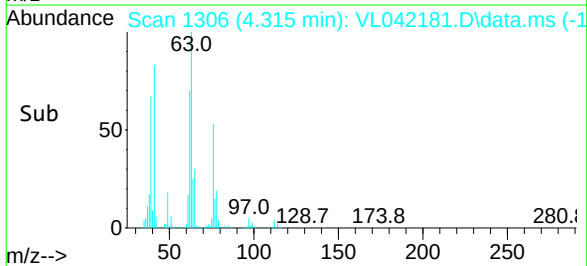
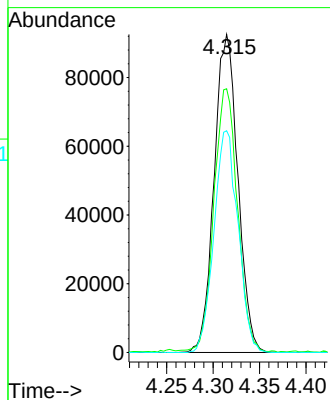
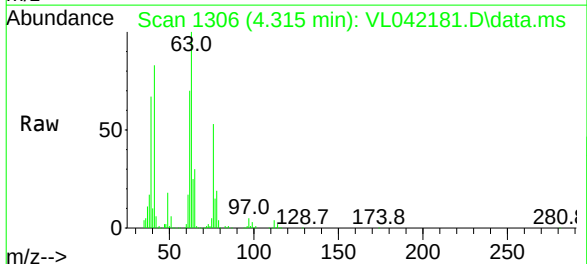
#39  
1,2-Dichloropropane  
Concen: 9.422 ppbv  
RT: 4.315 min Scan# 1305  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion: 63 Resp: 164374  
Ion Ratio Lower Upper  
63 100  
41 82.9 61.7 92.5  
62 69.7 57.6 86.4

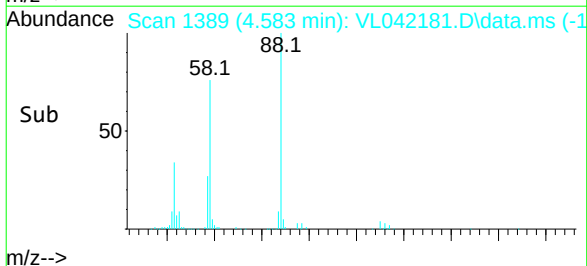
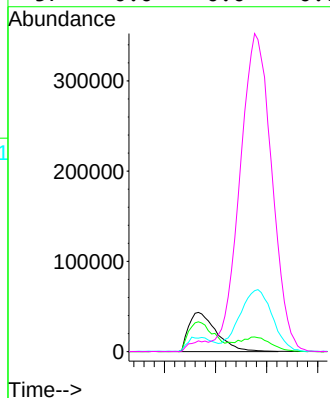
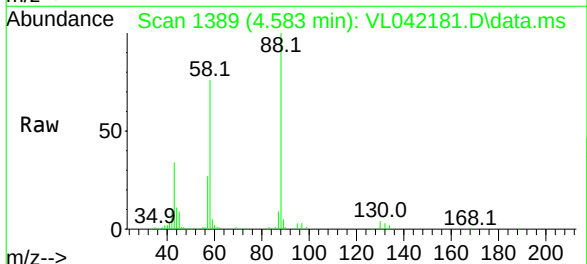
Manual Integrations  
APPROVED

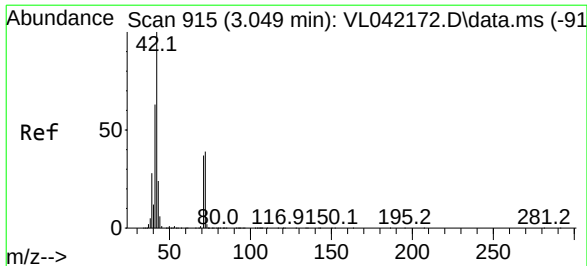
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#40  
1,4-Dioxane  
Concen: 8.857 ppbv  
RT: 4.583 min Scan# 1389  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

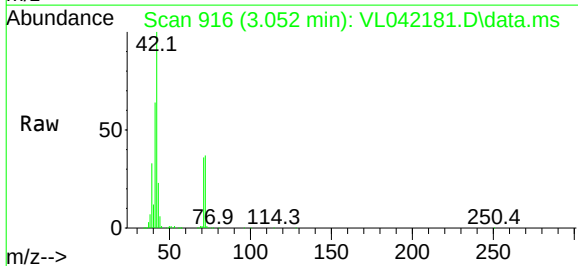
Tgt Ion: 88 Resp: 82012  
Ion Ratio Lower Upper  
88 100  
58 73.5 62.7 94.1  
43 35.8 23.0 34.4#  
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 9.362 ppbv  
RT: 3.052 min Scan# 915  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

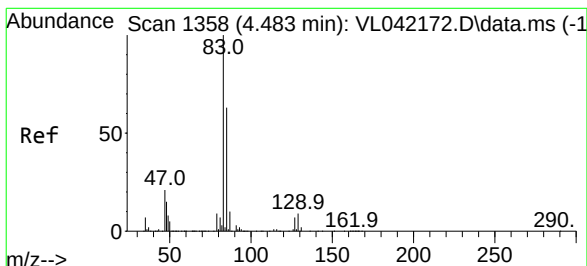
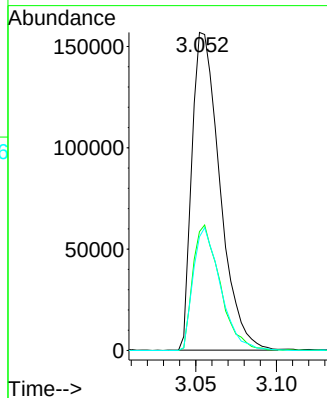
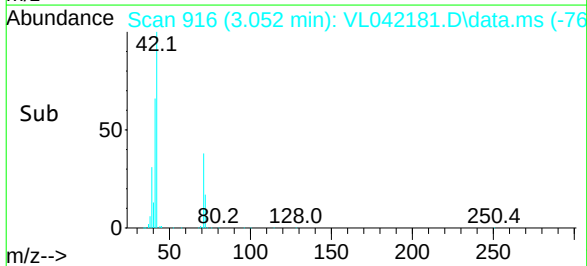
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



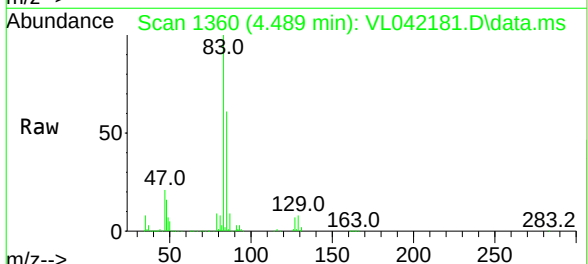
Tgt Ion: 42 Resp: 188907  
Ion Ratio Lower Upper  
42 100  
72 38.5 31.4 47.0  
71 37.8 30.2 45.4

Manual Integrations  
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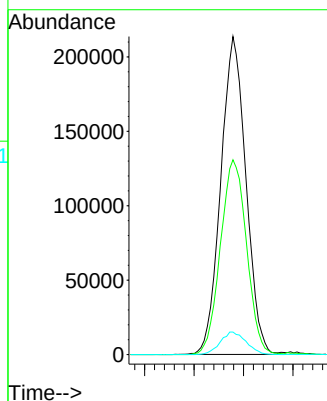
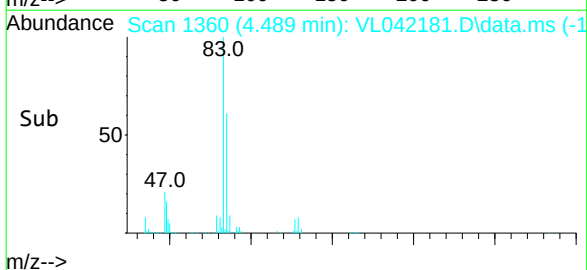
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

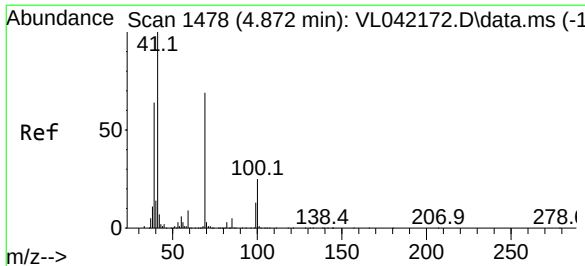


#42  
Bromodichloromethane  
Concen: 9.974 ppbv  
RT: 4.489 min Scan# 1360  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39



Tgt Ion: 83 Resp: 377092  
Ion Ratio Lower Upper  
83 100  
85 61.3 50.5 75.7  
127 7.1 5.9 8.9





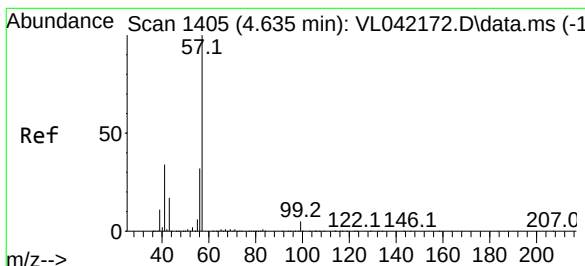
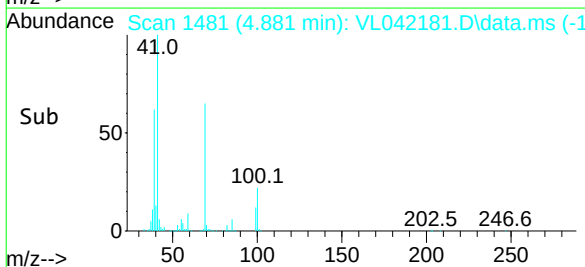
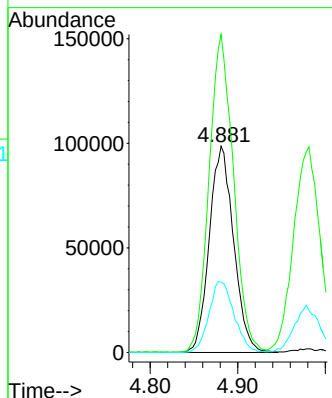
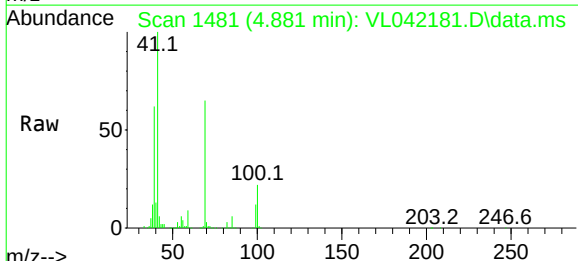
#43  
Methyl Methacrylate  
Concen: 9.377 ppbv  
RT: 4.881 min Scan# 1478  
Delta R.T. 0.009 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion: 69 Resp: 190156  
Ion Ratio Lower Upper  
69 100  
41 154.1 123.8 185.6  
100 35.7 28.4 42.6

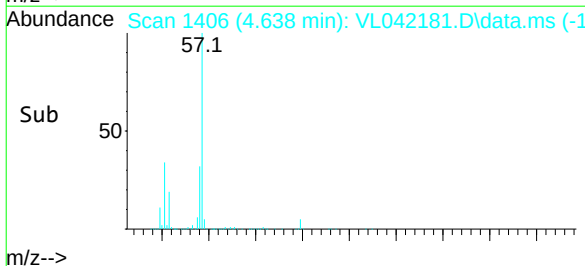
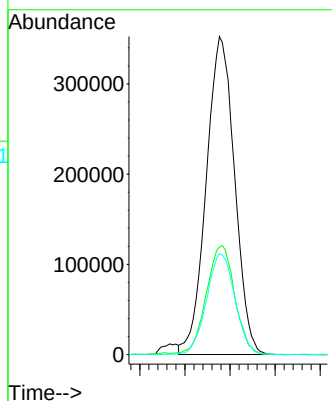
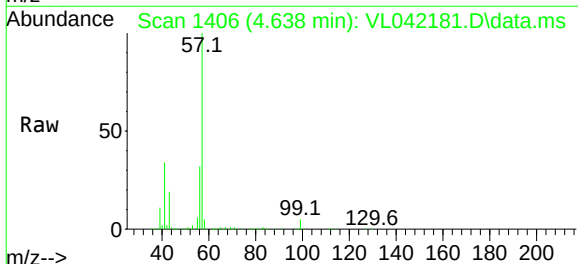
Manual Integrations  
APPROVED

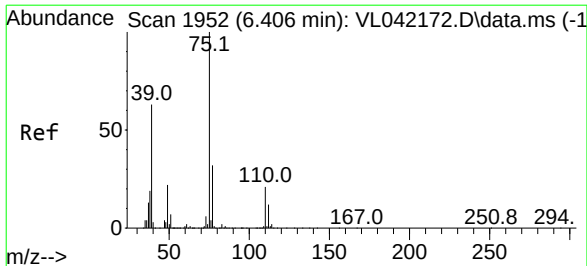
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#44  
2,2,4-Trimethylpentane  
Concen: 9.509 ppbv  
RT: 4.638 min Scan# 1406  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

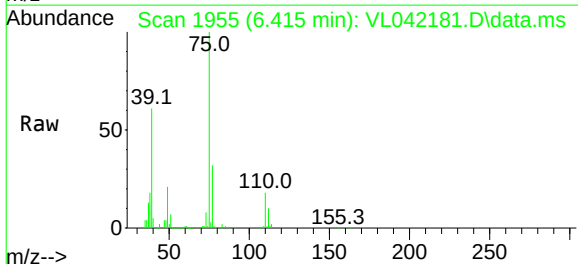
Tgt Ion: 57 Resp: 769803  
Ion Ratio Lower Upper  
57 100  
41 34.8 26.8 40.2  
56 31.8 25.6 38.4





#45  
t-1,3-Dichloropropene  
Concen: 9.376 ppbv  
RT: 6.415 min Scan# 1952  
Delta R.T. 0.009 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

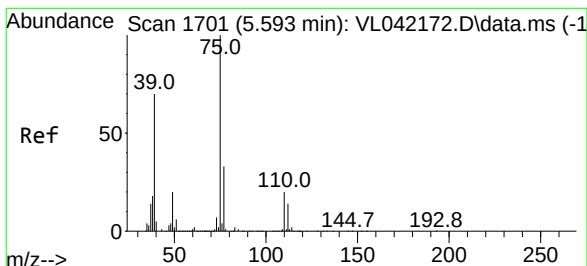
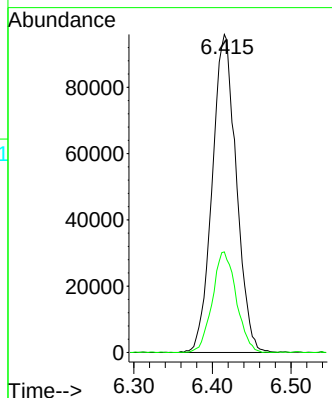
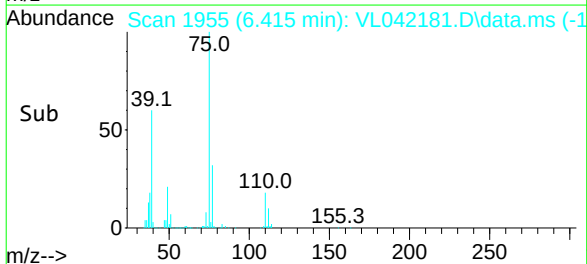
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



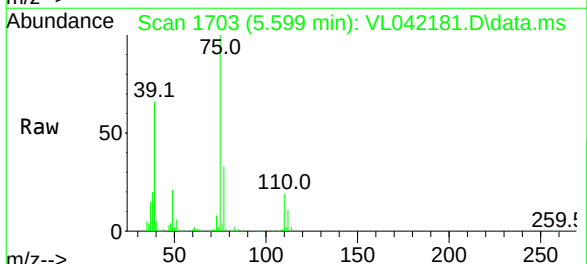
Tgt Ion: 75 Resp: 204004  
Ion Ratio Lower Upper  
75 100  
77 31.6 26.0 39.0

Manual Integrations  
APPROVED

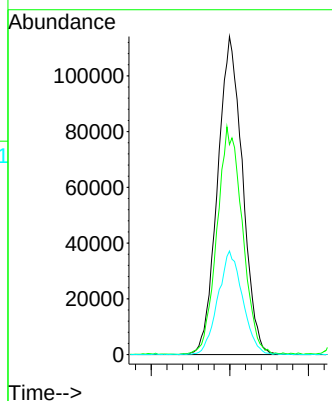
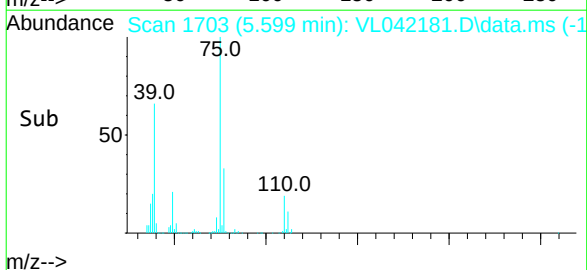
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



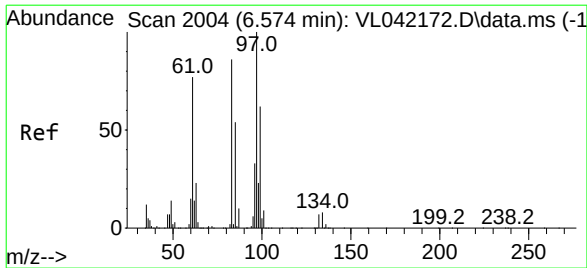
#46  
cis-1,3-Dichloropropene  
Concen: 9.437 ppbv  
RT: 5.599 min Scan# 1703  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39



Tgt Ion: 75 Resp: 251694  
Ion Ratio Lower Upper  
75 100  
39 66.0 55.8 83.6  
77 32.6 26.0 39.0

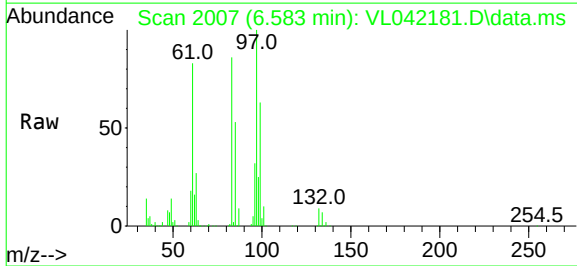






#47  
1,1,2-Trichloroethane  
Concen: 9.517 ppbv  
RT: 6.583 min Scan# 2007  
Delta R.T. 0.009 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

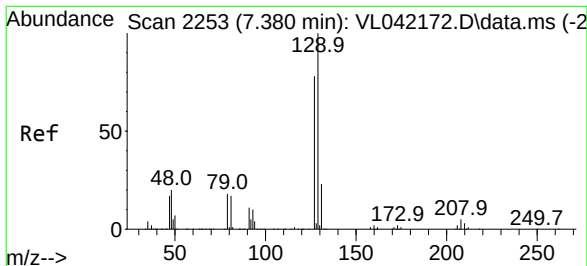
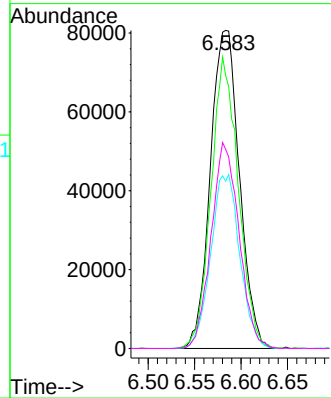
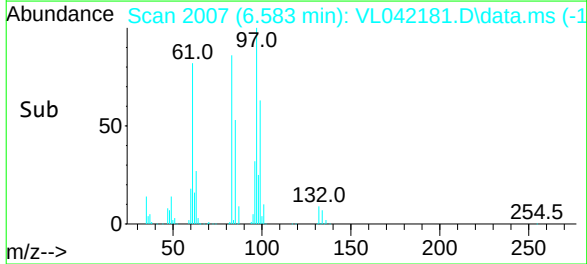
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



Tgt Ion: 97 Resp: 175509  
Ion Ratio Lower Upper  
97 100  
83 85.6 69.2 103.8  
85 52.6 43.1 64.7  
99 62.6 49.4 74.2

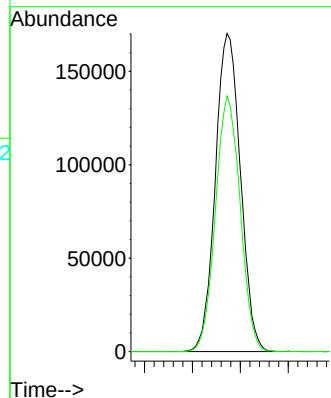
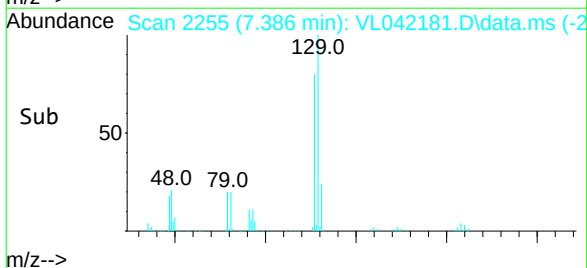
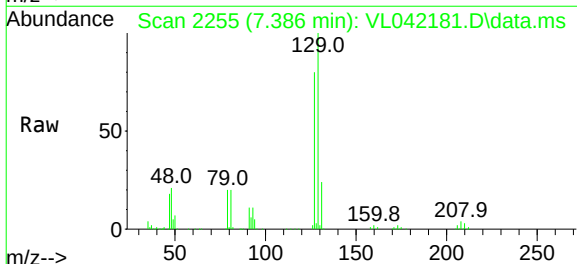
Manual Integrations  
APPROVED

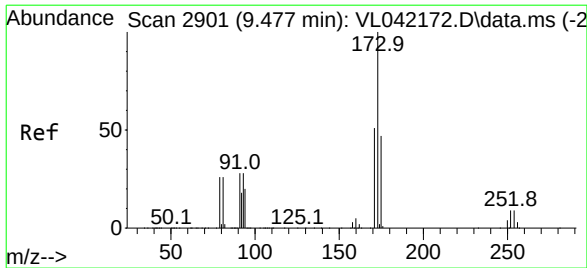
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#48  
Dibromochloromethane  
Concen: 9.923 ppbv  
RT: 7.386 min Scan# 2255  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion:129 Resp: 310158  
Ion Ratio Lower Upper  
129 100  
127 79.1 39.1 117.2





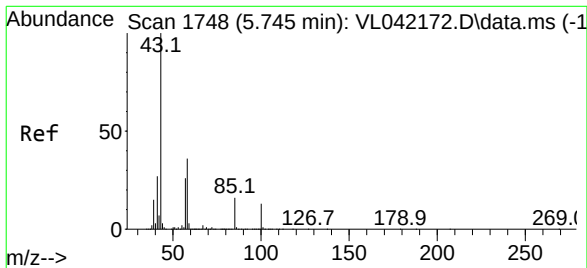
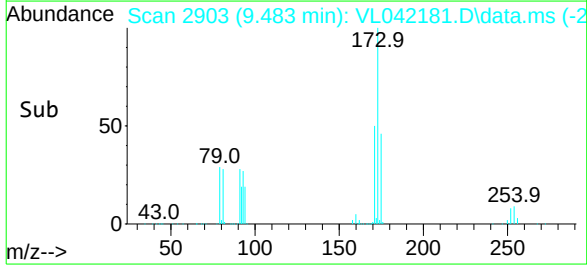
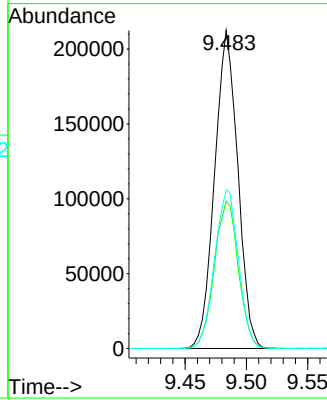
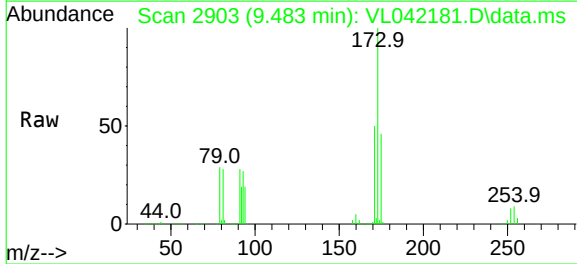
#49  
Bromoform  
Concen: 9.957 ppbv  
RT: 9.483 min Scan# 2901  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion: 173 Resp: 279382  
Ion Ratio Lower Upper  
173 100  
175 48.0 38.6 57.8  
171 51.4 41.8 62.6

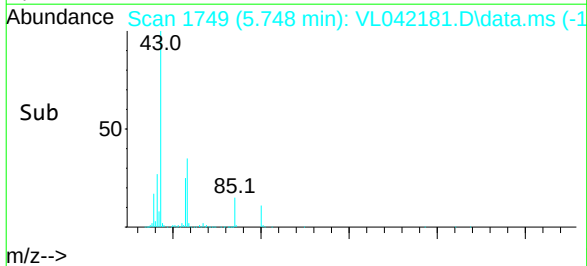
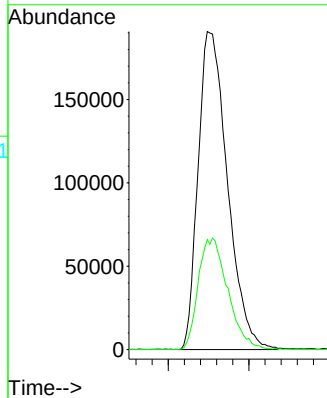
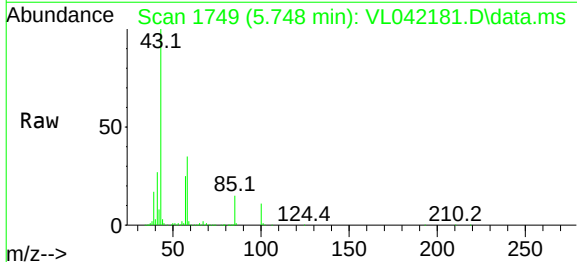
Manual Integrations  
APPROVED

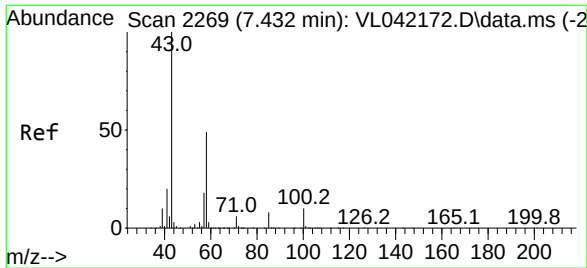
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#50  
4-Methyl-2-Pentanone  
Concen: 8.679 ppbv  
RT: 5.748 min Scan# 1749  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

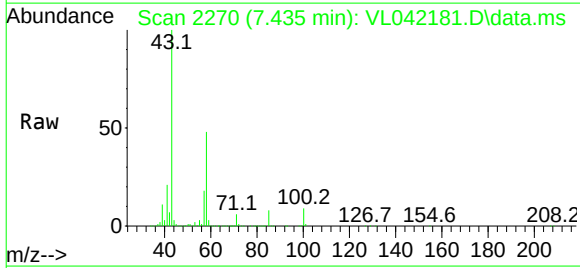
Tgt Ion: 43 Resp: 481919  
Ion Ratio Lower Upper  
43 100  
58 35.3 29.0 43.6





#51  
2-Hexanone  
Concen: 8.674 ppbv  
RT: 7.435 min Scan# 2269  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

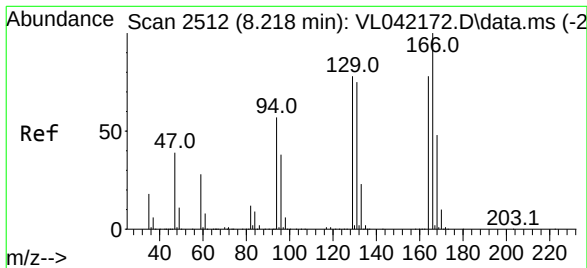
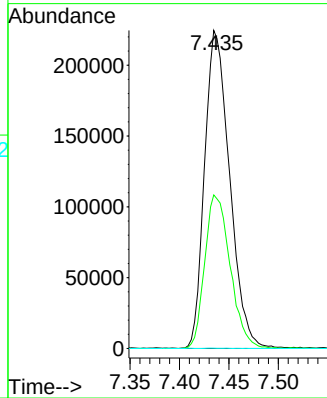
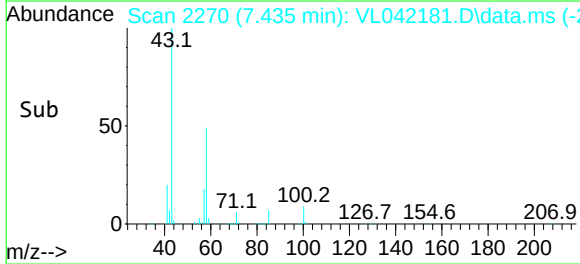
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



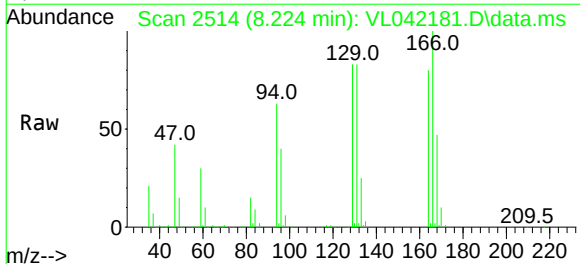
Tgt Ion: 43 Resp: 395520  
Ion Ratio Lower Upper  
43 100  
58 49.0 39.7 59.5  
98 0.1 0.1 0.1

Manual Integrations  
APPROVED

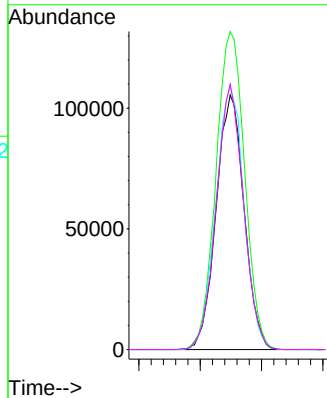
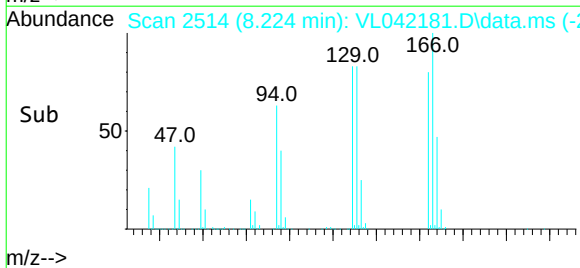
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

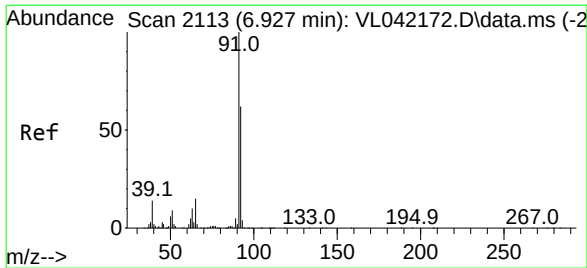


#52  
Tetrachloroethene  
Concen: 8.791 ppbv  
RT: 8.224 min Scan# 2514  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39



Tgt Ion:164 Resp: 167015  
Ion Ratio Lower Upper  
164 100  
166 124.8 102.5 153.7  
129 103.6 79.8 119.8  
131 104.0 76.6 114.8





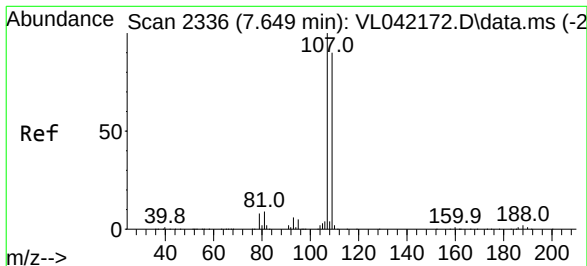
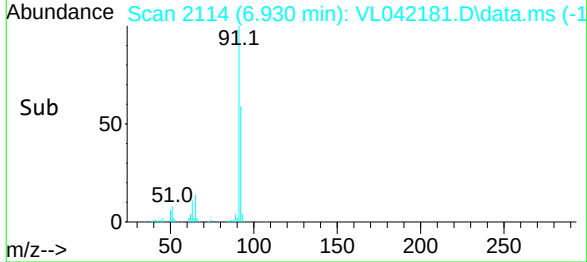
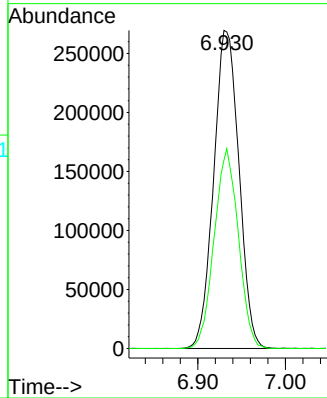
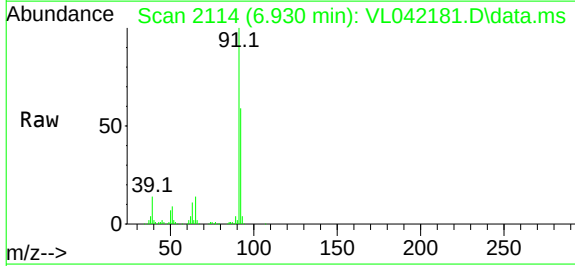
#53  
Toluene  
Concen: 9.520 ppbv  
RT: 6.930 min Scan# 2114  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion: 91 Resp: 540612  
Ion Ratio Lower Upper  
91 100  
92 60.0 48.4 72.6

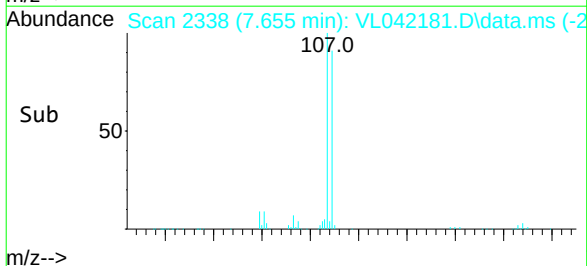
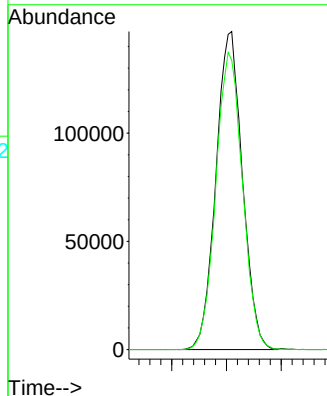
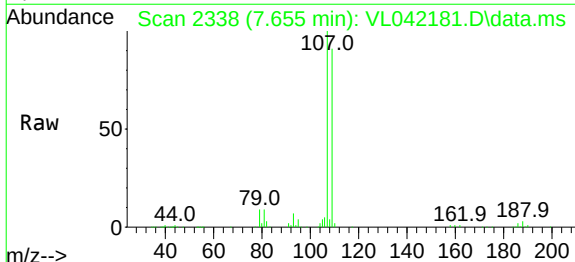
Manual Integrations  
APPROVED

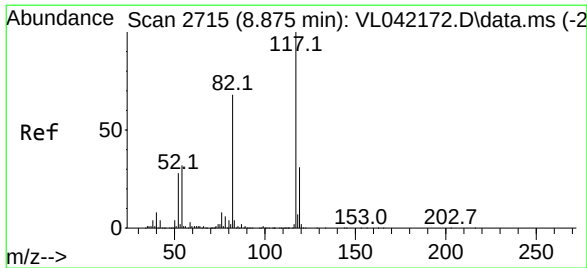
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#54  
1,2-Dibromoethane  
Concen: 9.589 ppbv  
RT: 7.655 min Scan# 2338  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion:107 Resp: 246519  
Ion Ratio Lower Upper  
107 100  
109 90.9 72.2 108.4





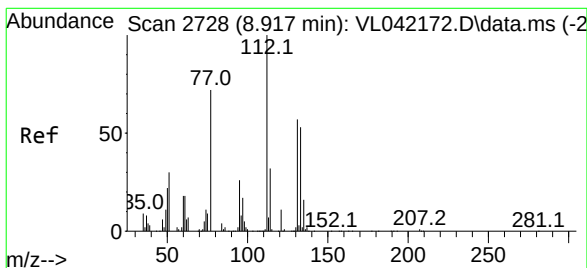
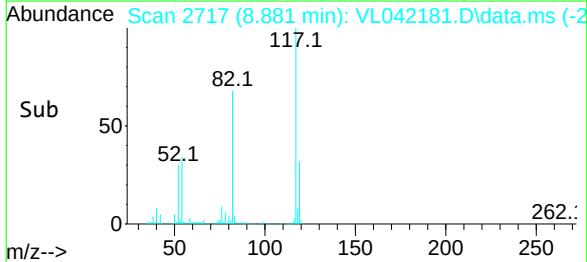
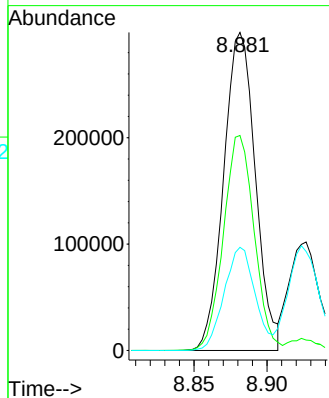
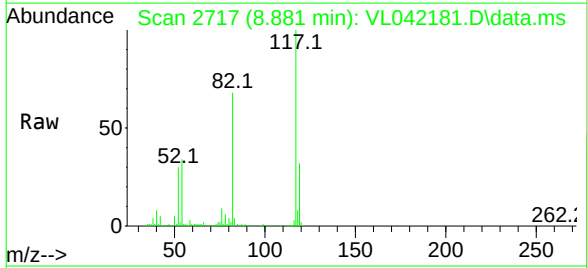
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.881 min Scan# 2715  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion:117 Resp: 452250  
Ion Ratio Lower Upper  
117 100  
82 68.9 55.8 83.6  
119 32.8 25.5 38.3

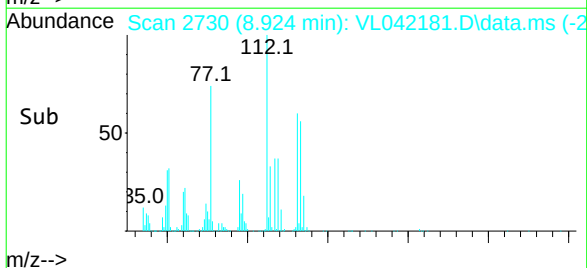
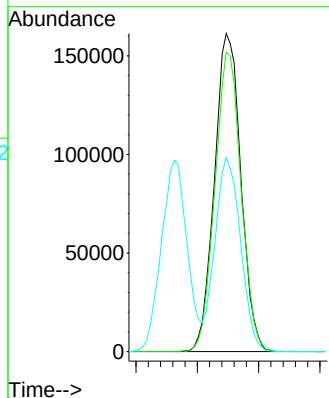
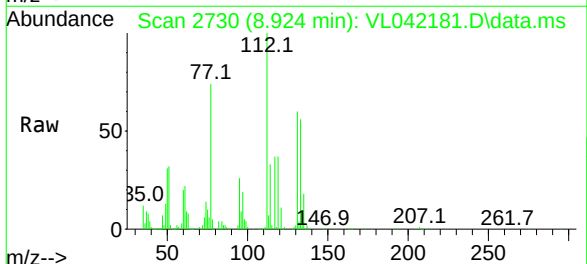
Manual Integrations  
APPROVED

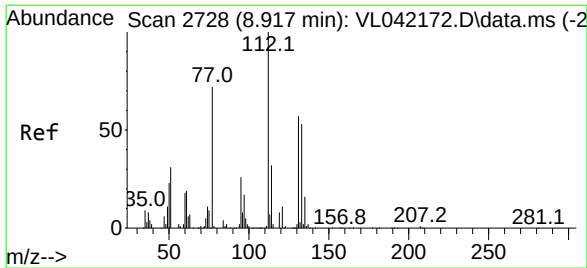
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.677 ppbv  
RT: 8.924 min Scan# 2730  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

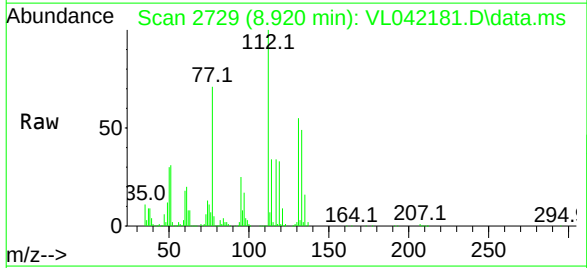
Tgt Ion:131 Resp: 240905  
Ion Ratio Lower Upper  
131 100  
133 93.5 76.6 114.8  
119 57.6 49.8 74.6





#57  
Chlorobenzene  
Concen: 9.507 ppbv  
RT: 8.920 min Scan# 2729  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

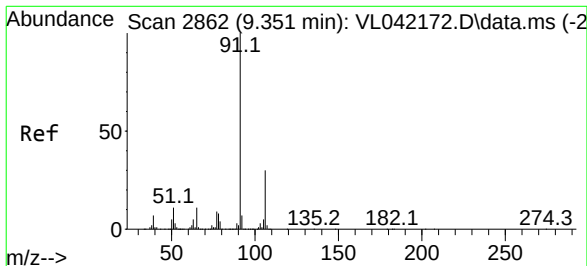
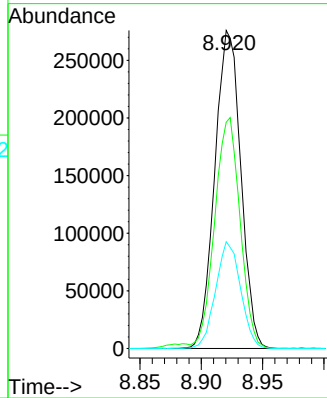
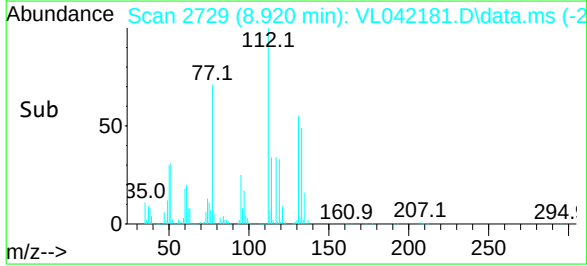
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



Tgt Ion: 112 Resp: 407816  
Ion Ratio Lower Upper  
112 100  
77 71.1 58.2 87.2  
114 33.6 29.1 35.5

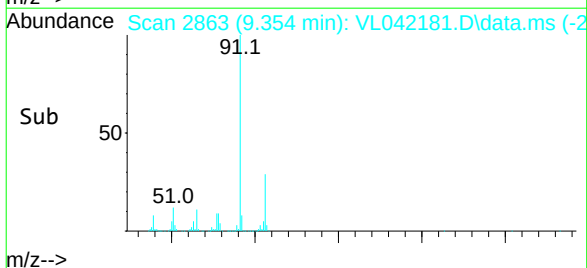
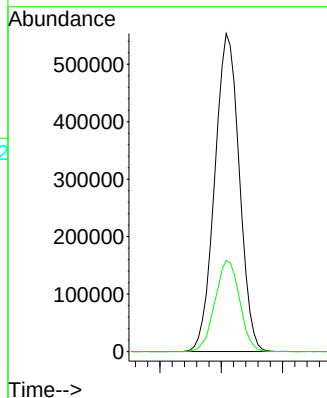
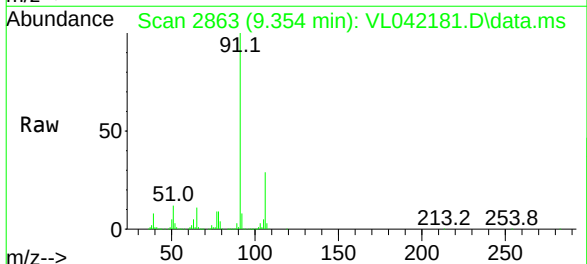
Manual Integrations  
APPROVED

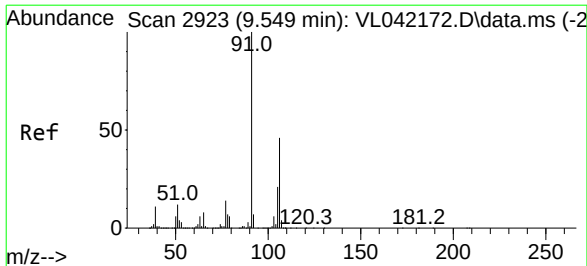
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025



#58  
Ethyl Benzene  
Concen: 9.583 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 91 Resp: 769818  
Ion Ratio Lower Upper  
91 100  
106 28.6 24.2 36.2





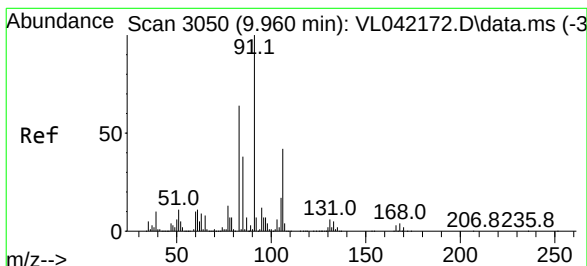
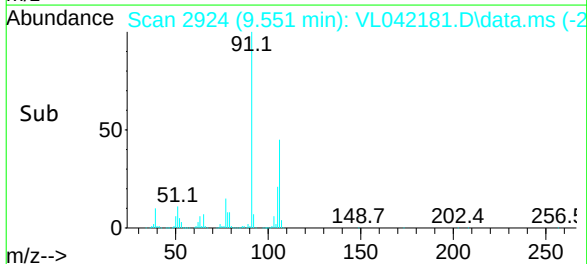
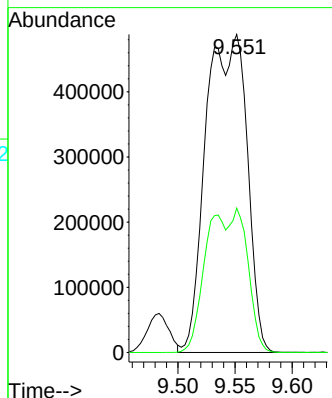
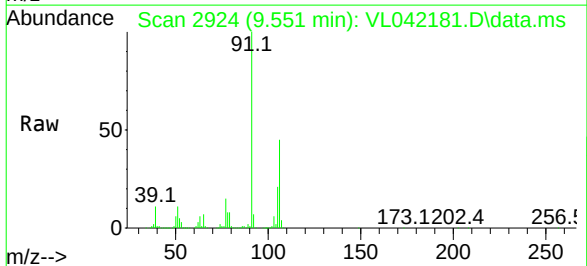
#59  
m/p-Xylene  
Concen: 19.028 ppbv m  
RT: 9.551 min Scan# 29  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion: 91 Resp: 1220553  
Ion Ratio Lower Upper  
91 100  
106 45.2 36.4 54.6

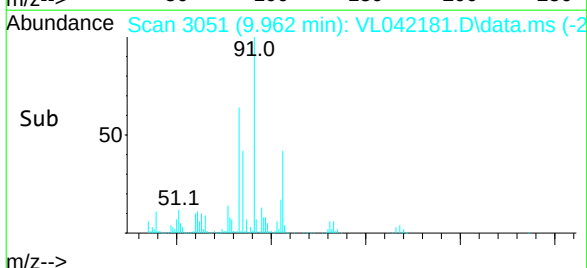
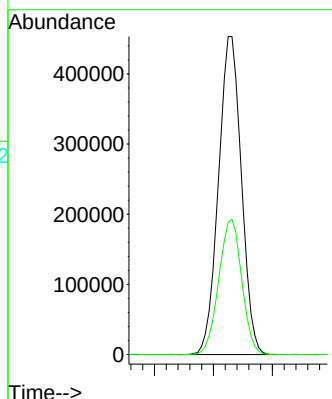
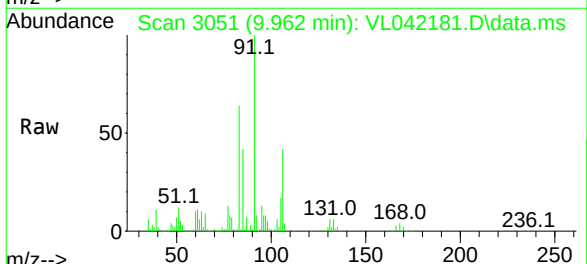
Manual Integrations  
APPROVED

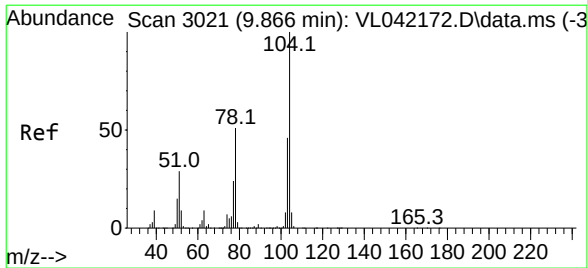
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#60  
o-Xylene  
Concen: 9.518 ppbv  
RT: 9.962 min Scan# 3051  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 91 Resp: 612011  
Ion Ratio Lower Upper  
91 100  
106 42.7 20.8 62.5





#61

Styrene

Concen: 9.639 ppbv

RT: 9.869 min Scan# 3021

Delta R.T. 0.003 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_L

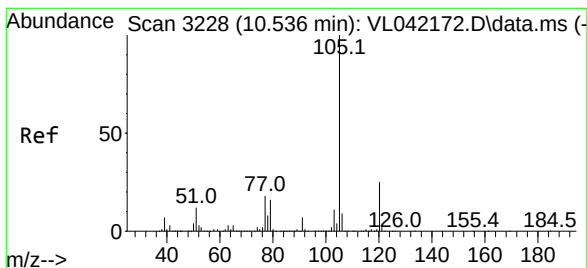
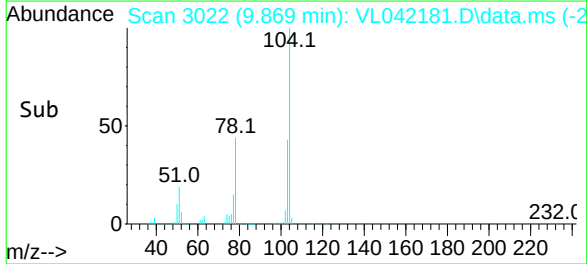
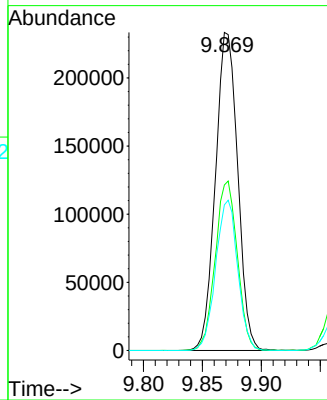
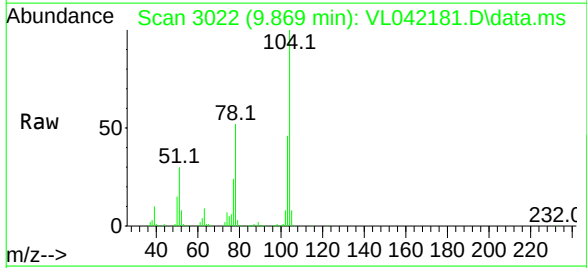
ClientSampleId :

VL0327ABS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 104   | Resp: | 306658 |
| Ion Ratio | Lower | Upper |        |
| 104       | 100   |       |        |
| 78        | 52.9  | 41.8  | 62.6   |
| 103       | 46.8  | 37.0  | 55.4   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#62

Isopropylbenzene

Concen: 9.600 ppbv

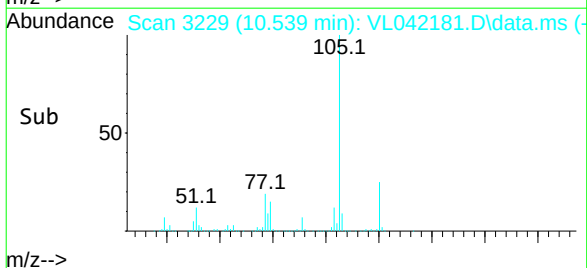
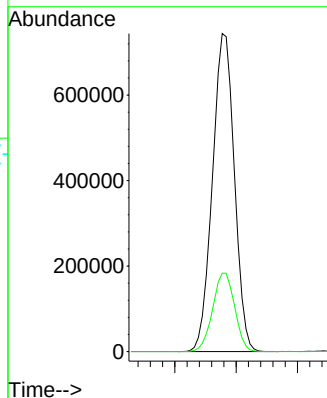
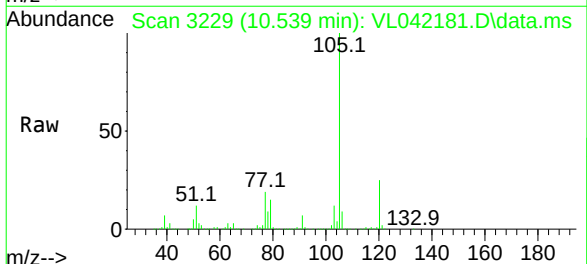
RT: 10.539 min Scan# 3229

Delta R.T. 0.003 min

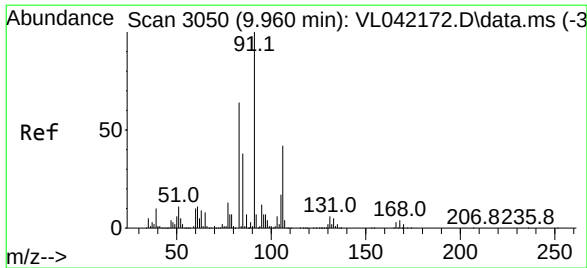
Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 923163 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 24.8  | 19.9  | 29.9   |

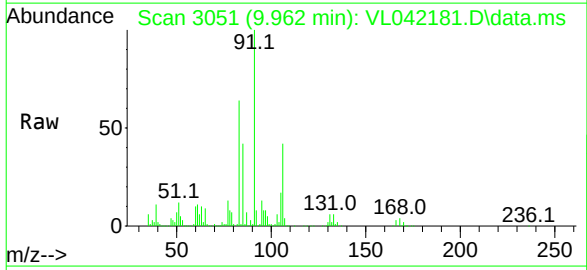






#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.483 ppbv  
RT: 9.962 min Scan# 3051  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

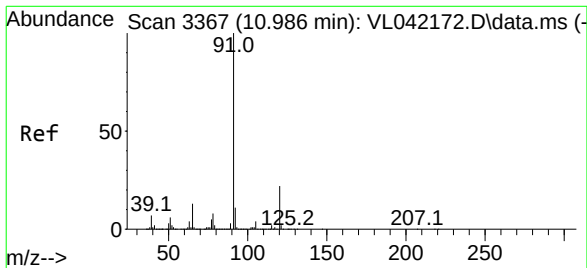
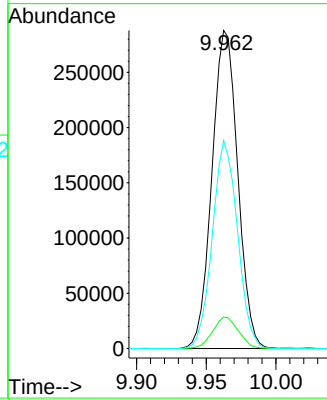
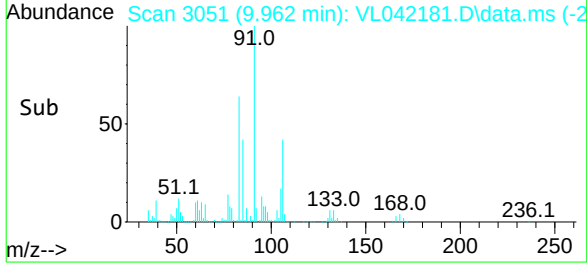
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



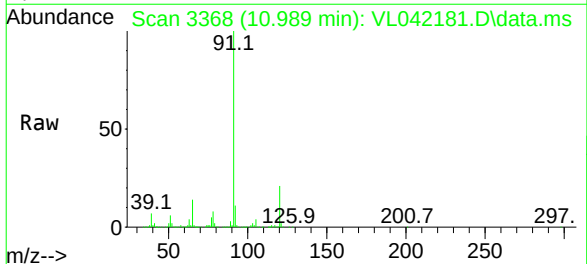
Tgt Ion: 83 Resp: 370486  
Ion Ratio Lower Upper  
83 100  
131 9.9 4.8 14.4  
85 63.9 32.5 97.5

Manual Integrations  
APPROVED

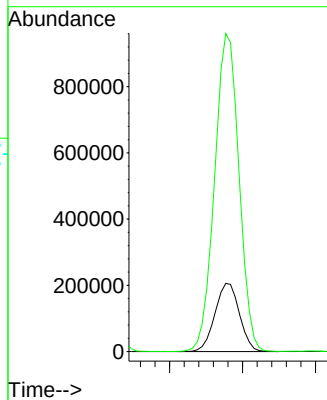
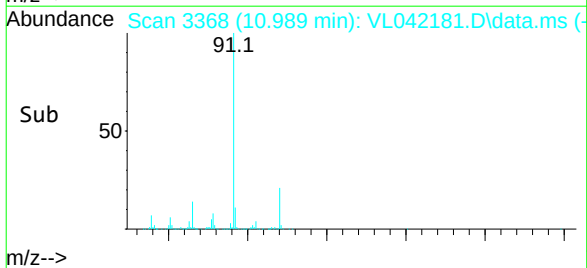
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

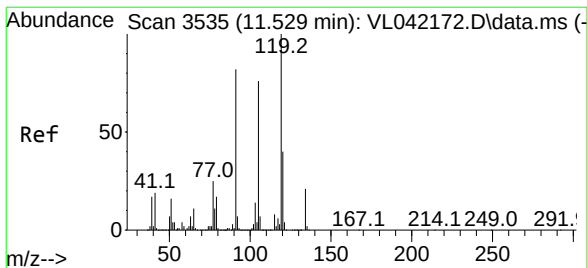


#64  
n-propylbenzene  
Concen: 9.682 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39



Tgt Ion:120 Resp: 239652  
Ion Ratio Lower Upper  
120 100  
91 465.1 376.9 565.3





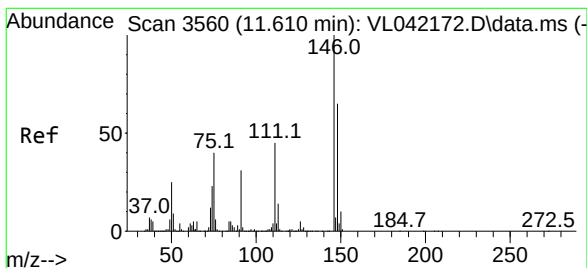
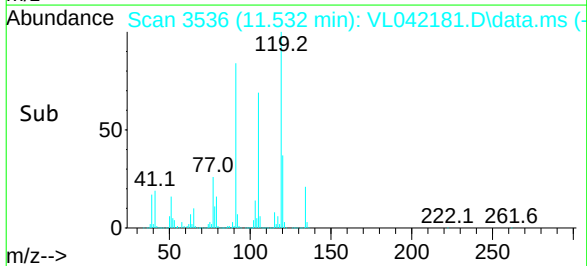
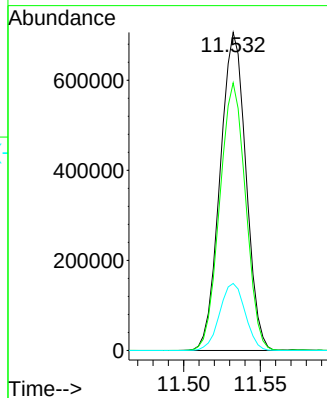
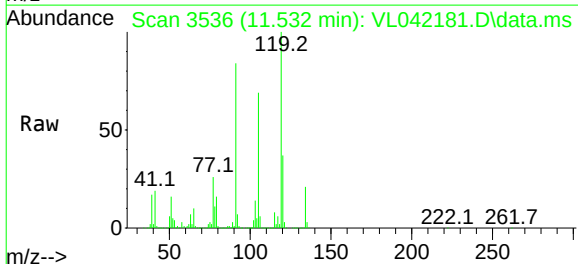
#65  
tert-Butylbenzene  
Concen: 9.315 ppbv  
RT: 11.532 min Scan# 3535  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 119   | Resp: | 828438 |
| Ion      | Ratio | Lower | Upper  |
| 119      | 100   |       |        |
| 91       | 84.2  | 66.0  | 99.0   |
| 134      | 20.8  | 16.7  | 25.1   |

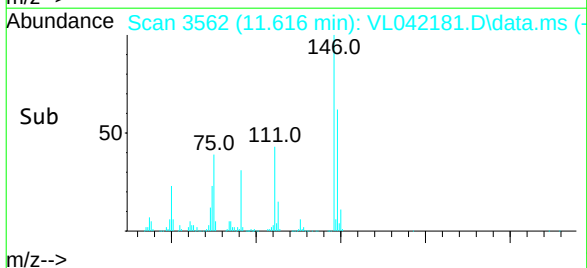
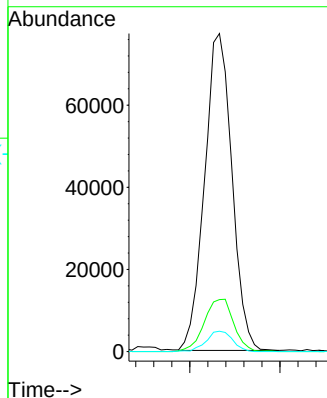
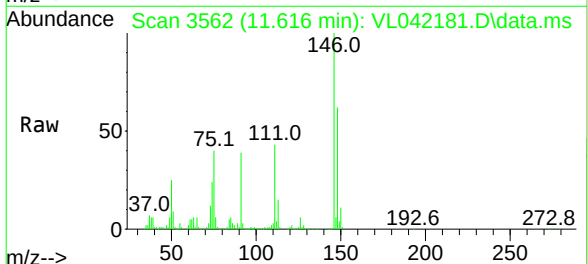
Manual Integrations  
APPROVED

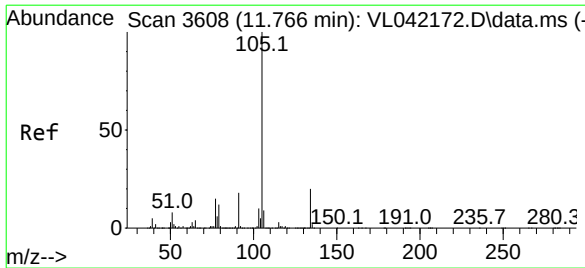
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#66  
Benzyl Chloride  
Concen: 8.627 ppbv  
RT: 11.616 min Scan# 3562  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

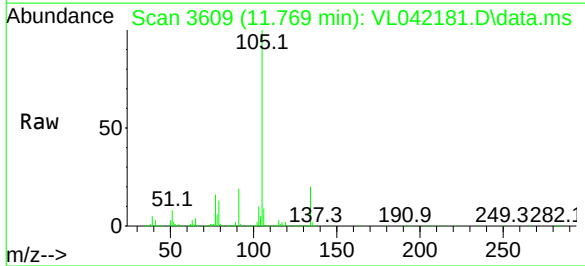
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 81404 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 126      | 17.8  | 13.8  | 20.6  |
| 128      | 6.2   | 4.5   | 6.7   |





#67  
sec-Butylbenzene  
Concen: 9.347 ppbv  
RT: 11.769 min Scan# 3608  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

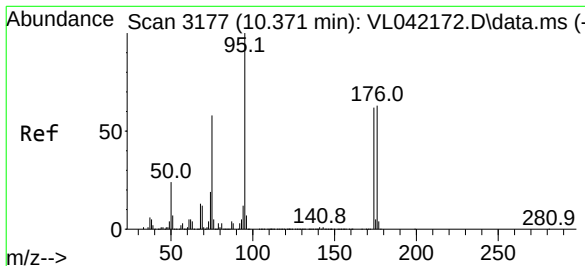
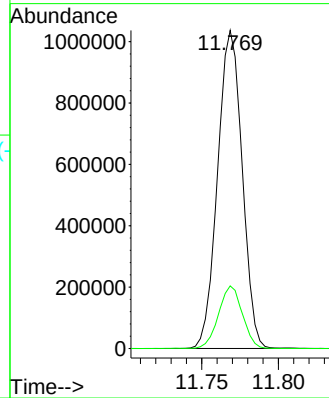
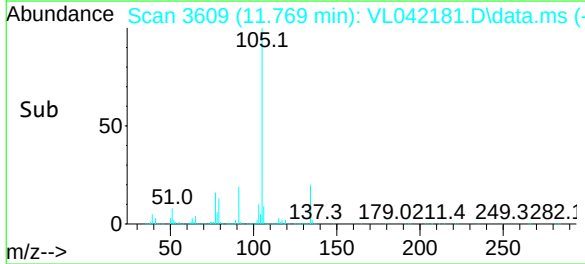
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



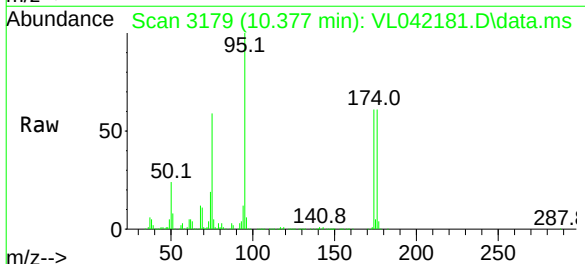
Tgt Ion: 105 Resp: 1155378  
Ion Ratio Lower Upper  
105 100  
134 19.1 15.5 23.3

Manual Integrations  
APPROVED

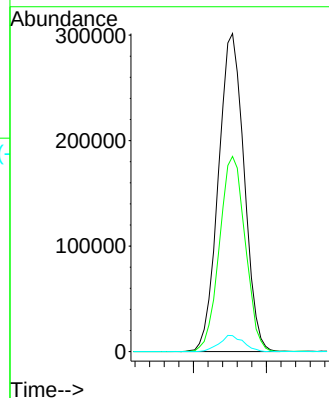
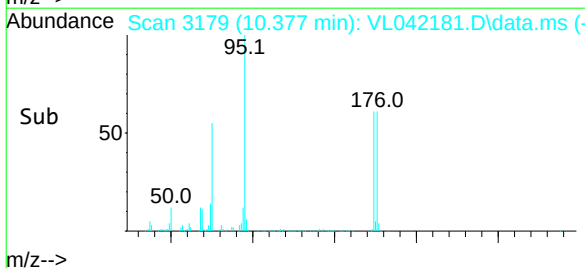
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

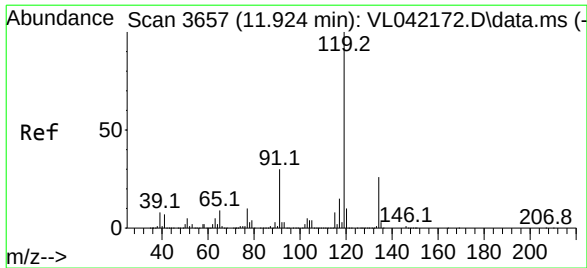


#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.934 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39



Tgt Ion: 95 Resp: 368941  
Ion Ratio Lower Upper  
95 100  
174 61.7 50.6 76.0  
175 4.8 3.8 5.6





#69

p-Isopropyltoluene

Concen: 9.503 ppbv

RT: 11.927 min Scan# 3657

Delta R.T. 0.003 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_L

ClientSampleId :

VL0327ABS01

Tgt Ion: 119 Resp: 1011573

Ion Ratio Lower Upper

119 100

134 25.5 20.4 30.6

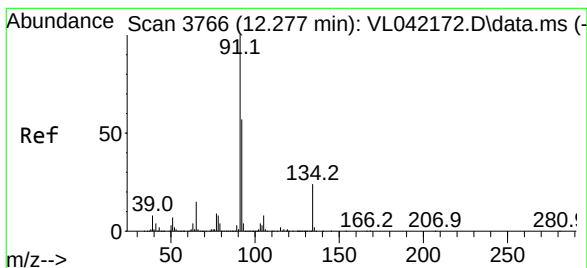
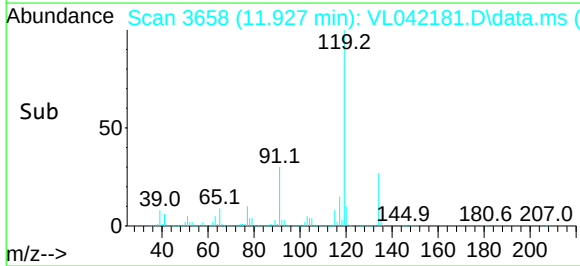
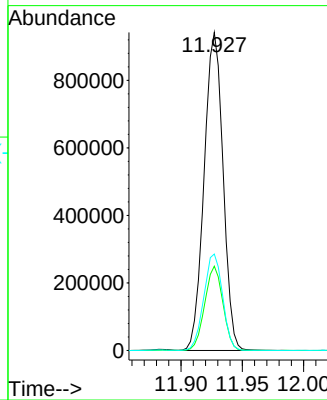
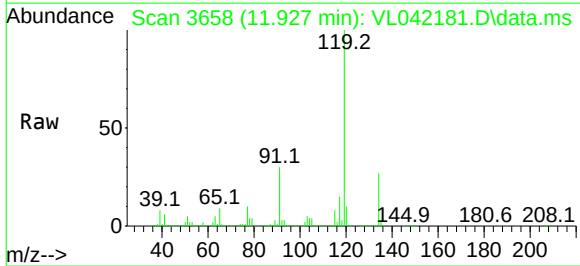
91 30.3 23.7 35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#70

n-Butylbenzene

Concen: 9.397 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. 0.006 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

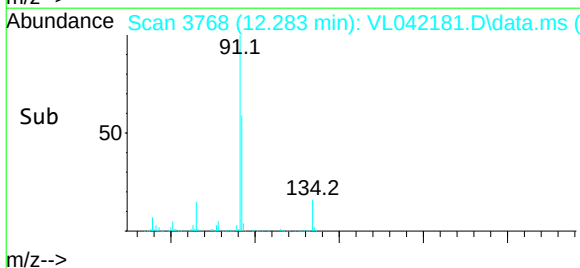
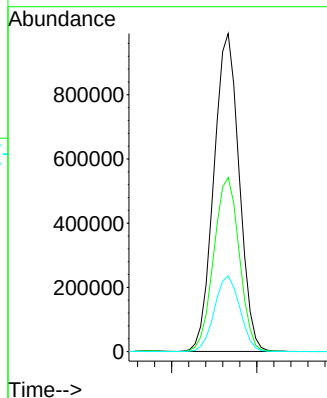
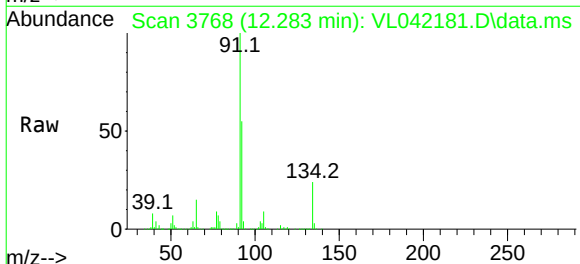
Tgt Ion: 91 Resp: 1022935

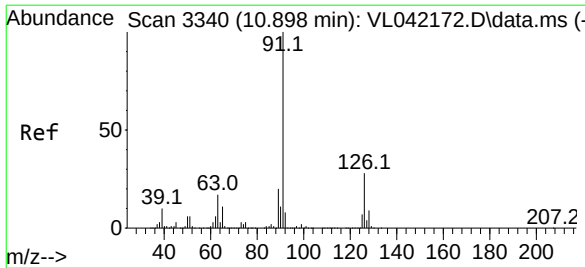
Ion Ratio Lower Upper

91 100

92 55.5 44.9 67.3

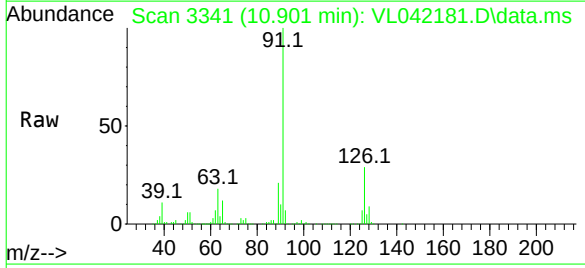
134 24.0 19.2 28.8





#71  
2-Chlorotoluene  
Concen: 9.562 ppbv  
RT: 10.901 min Scan# 3341  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

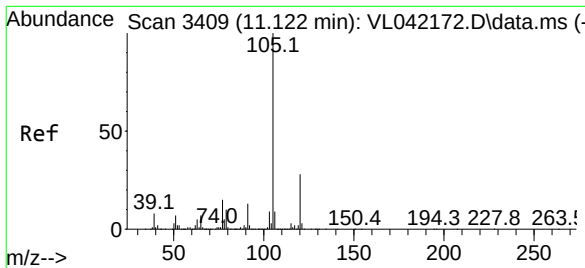
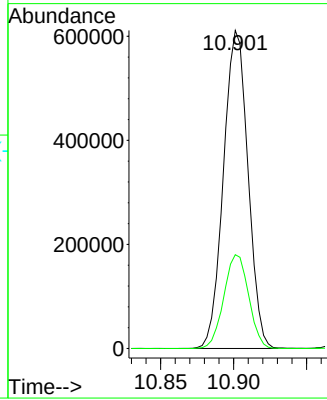
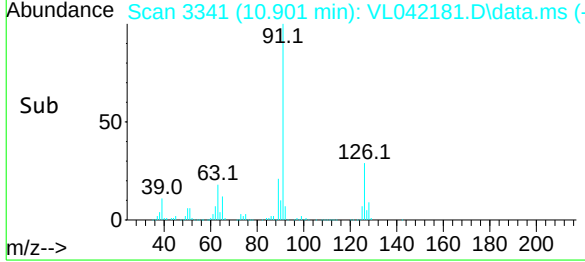
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



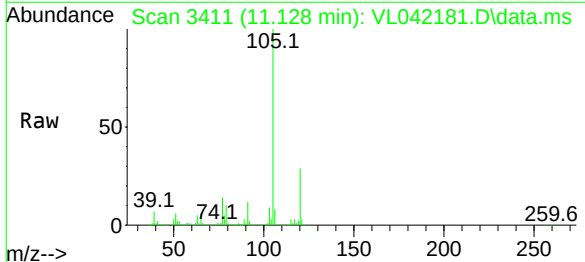
Tgt Ion: 91 Resp: 713648  
Ion Ratio Lower Upper  
91 100  
126 29.8 11.6 46.4

Manual Integrations  
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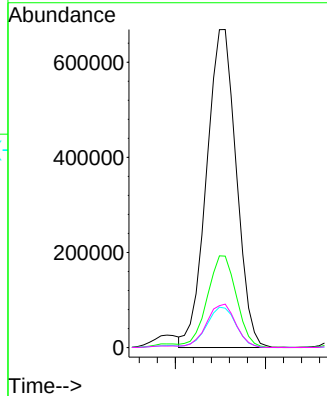
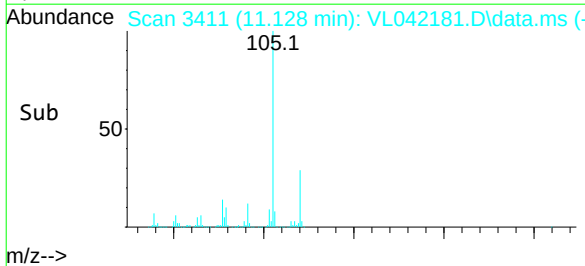
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

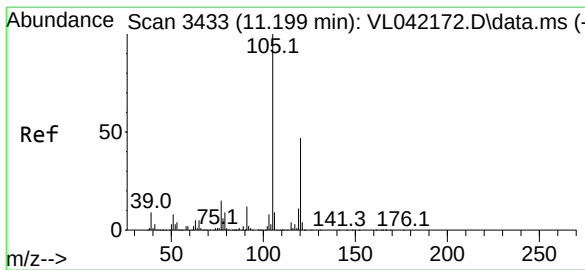


#72  
4-Ethyltoluene  
Concen: 9.576 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39



Tgt Ion:105 Resp: 766720  
Ion Ratio Lower Upper  
105 100  
120 29.4 23.4 35.0  
91 13.1 10.3 15.5  
77 14.0 11.4 17.2





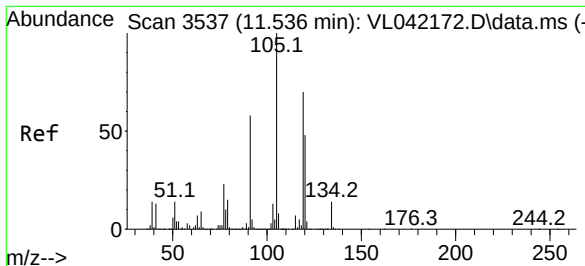
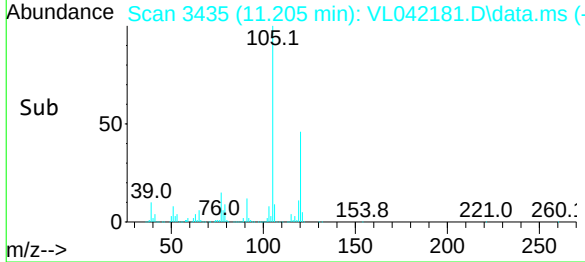
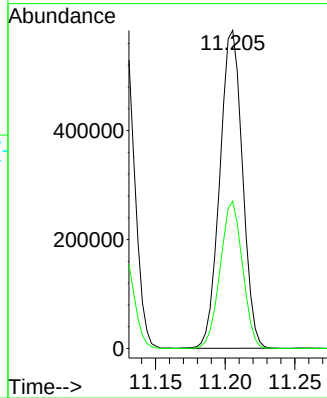
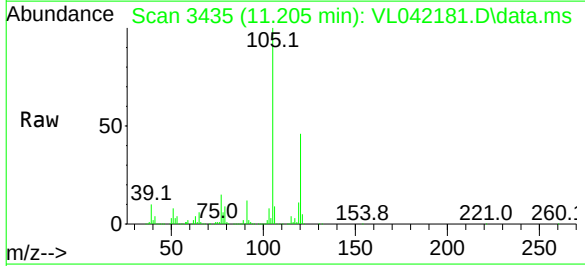
#73  
1,3,5-Trimethylbenzene  
Concen: 9.451 ppbv  
RT: 11.205 min Scan# 3433  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion:105 Resp: 660905  
Ion Ratio Lower Upper  
105 100  
120 46.3 37.4 56.0

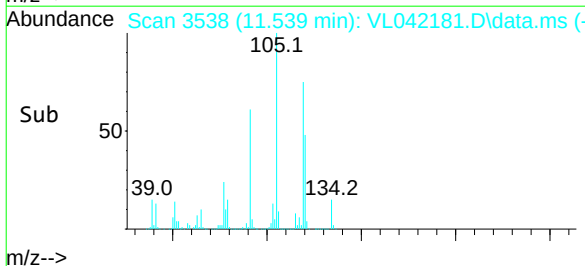
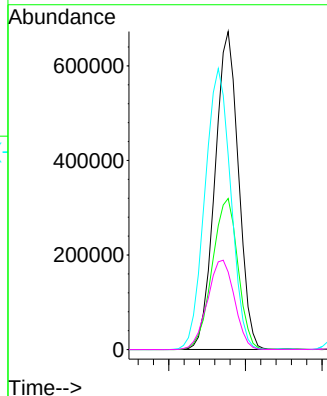
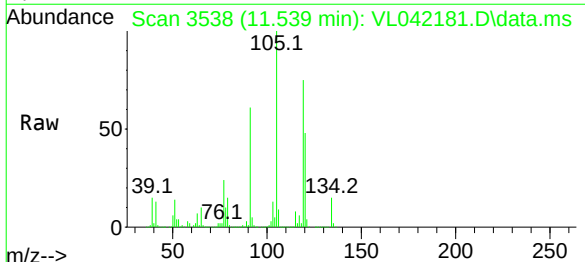
Manual Integrations  
APPROVED

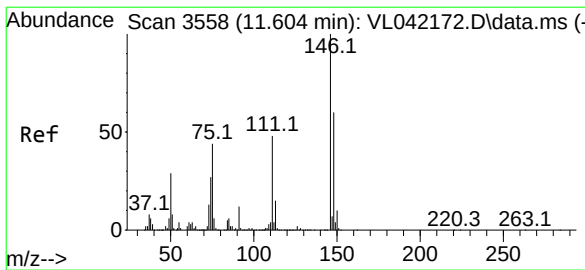
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#74  
1,2,4-Trimethylbenzene  
Concen: 8.921 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion:105 Resp: 718683  
Ion Ratio Lower Upper  
105 100  
120 47.5 38.6 58.0  
91 61.0 46.2 69.2  
77 24.3 18.6 27.8





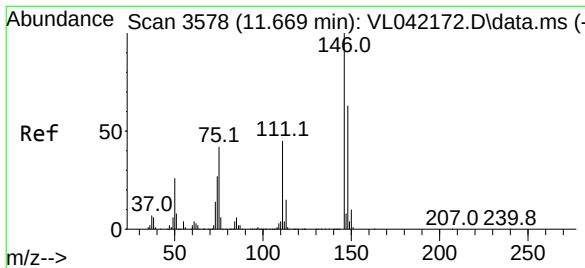
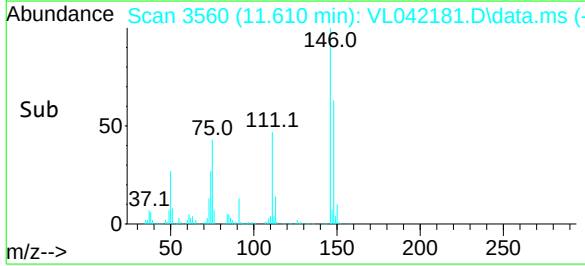
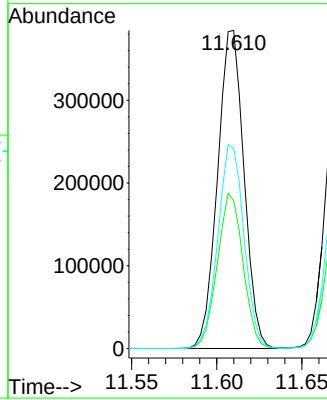
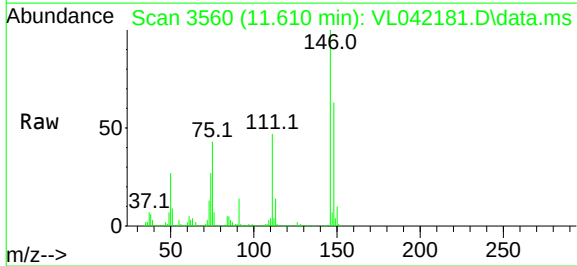
#75  
1,3-Dichlorobenzene  
Concen: 9.401 ppbv  
RT: 11.610 min Scan# 3558  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion:146 Resp: 415378  
Ion Ratio Lower Upper  
146 100  
111 47.4 23.8 71.2  
148 63.6 31.9 95.9

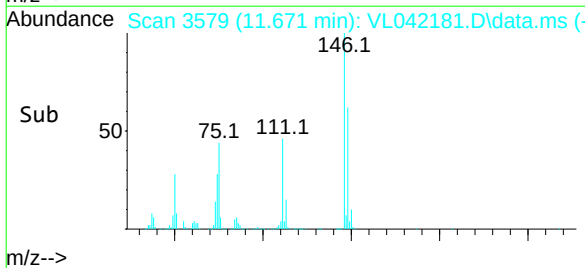
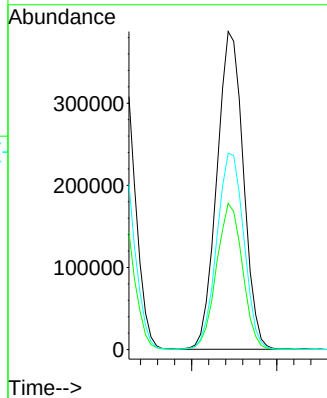
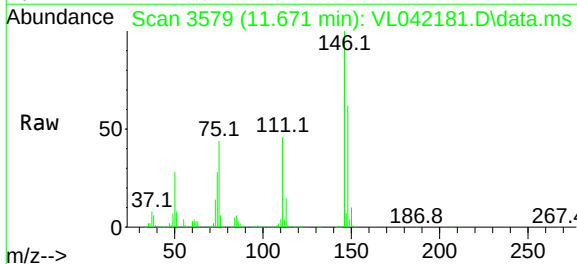
Manual Integrations  
APPROVED

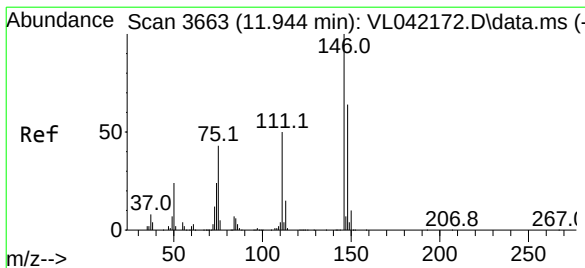
Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#76  
1,4-Dichlorobenzene  
Concen: 9.521 ppbv  
RT: 11.671 min Scan# 3579  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion:146 Resp: 418670  
Ion Ratio Lower Upper  
146 100  
111 45.4 23.0 69.0  
148 63.4 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 9.336 ppbv

RT: 11.947 min Scan# 3663

Delta R.T. 0.003 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_L

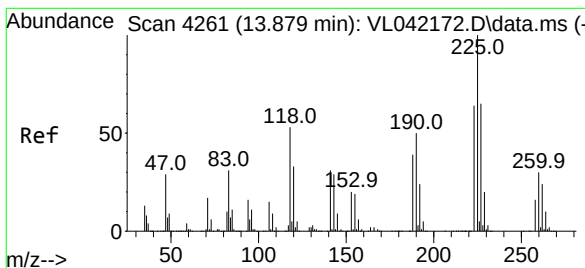
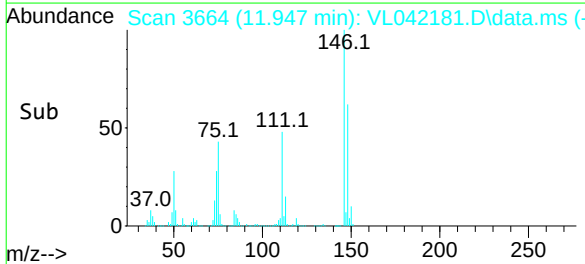
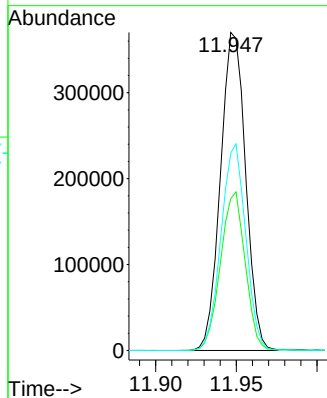
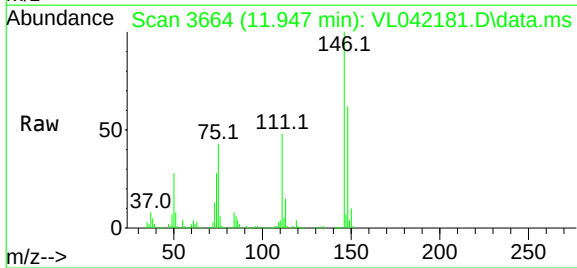
ClientSampleId :

VL0327ABS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 401634 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 49.0  | 24.8  | 74.3   |
| 148       | 64.0  | 31.6  | 94.8   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 7.914 ppbv

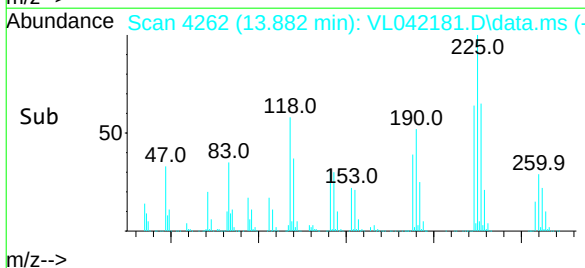
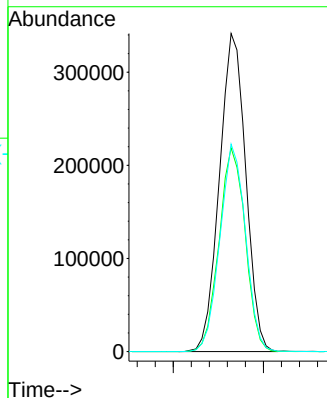
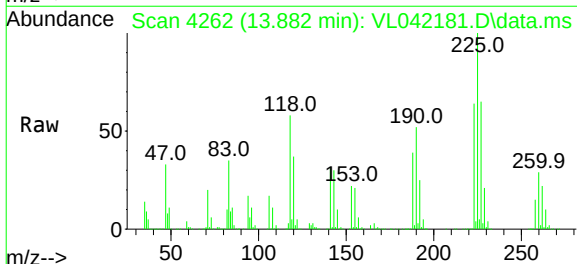
RT: 13.882 min Scan# 4262

Delta R.T. 0.003 min

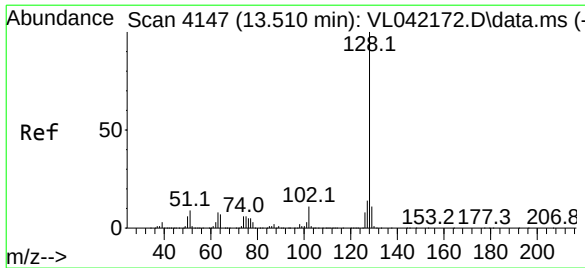
Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 346566 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 63.5  | 50.6  | 76.0   |
| 227       | 63.5  | 51.2  | 76.8   |

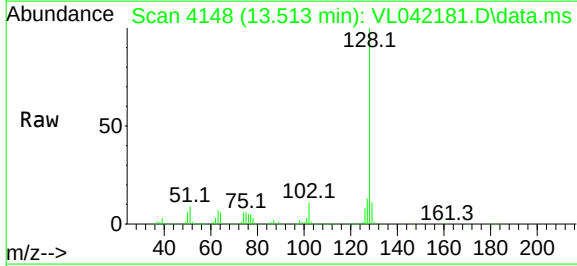






#79  
Naphthalene  
Concen: 8.659 ppbv  
RT: 13.513 min Scan# 4147  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

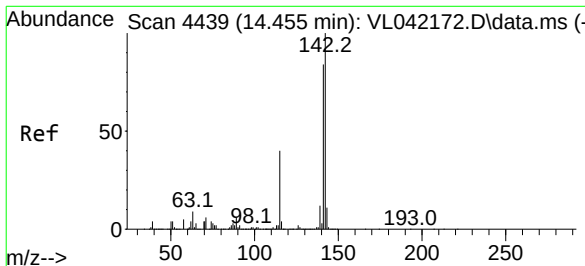
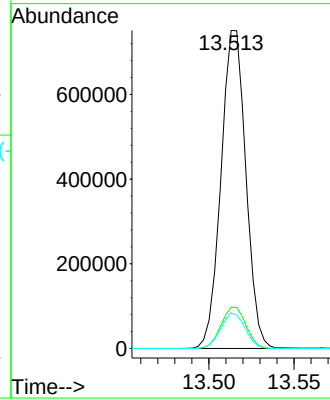
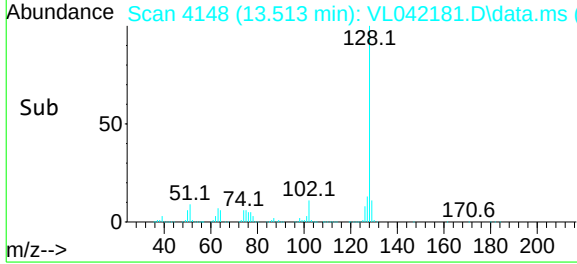
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01



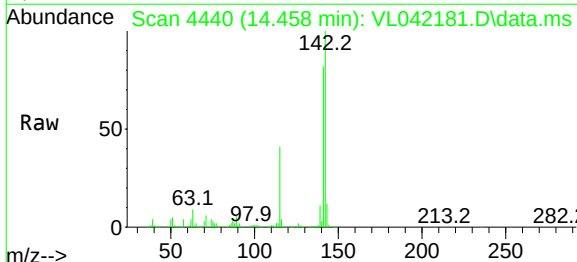
Tgt Ion: 128 Resp: 762976  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.8 16.2  
129 11.2 9.0 13.4

Manual Integrations  
APPROVED

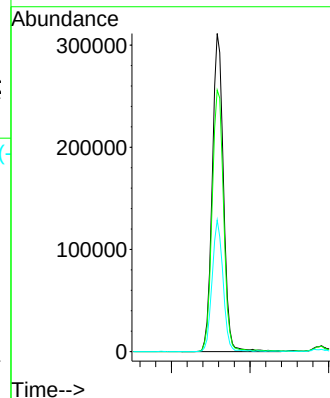
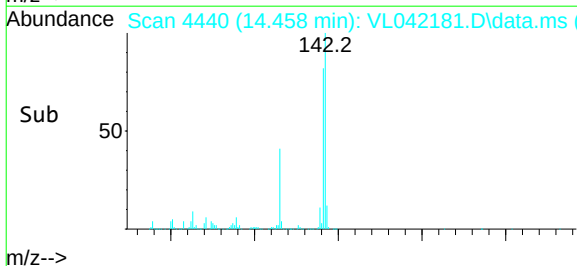
Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

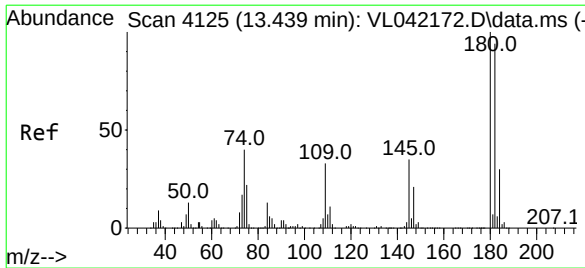


#80  
Naphthalene, 2-methyl-  
Concen: 7.134 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39



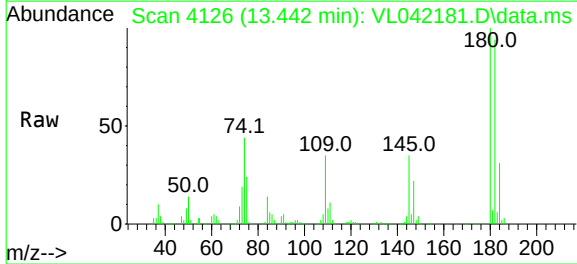
Tgt Ion: 142 Resp: 308264  
Ion Ratio Lower Upper  
142 100  
141 84.9 66.3 99.5  
115 40.7 31.6 47.4





#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.764 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

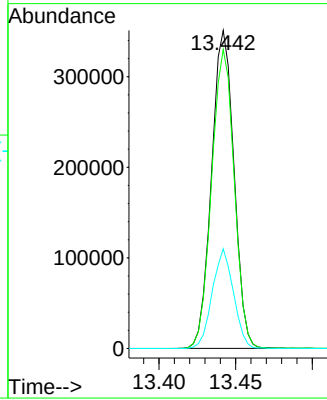
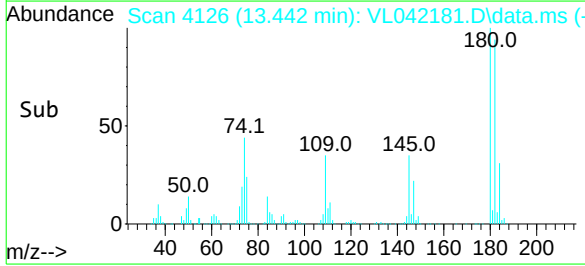
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0327ABS01



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 356193 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.1  | 75.1  | 112.7  |
| 184       | 29.8  | 24.4  | 36.6   |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025



## Report of Analysis

|                    |                                                 |                 |       |
|--------------------|-------------------------------------------------|-----------------|-------|
| Client:            | Woodard & Curran                                | Date Collected: |       |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  |       |
| Client Sample ID:  | VL0331ABS01                                     | SDG No.:        | Q1669 |
| Lab Sample ID:     | VL0331ABS01                                     | 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 |
| VL042203.D        | 1         |           | 03/31/25 10:17 | VL033125      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 10.4          | 51.4           |           | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 9.70          | 20.0           |           | 0.21  | 1.03       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 8.70          | 22.2           |           | 0.030 | 0.080      | ug/m3 |
| 74-83-9        | Bromomethane                   | 9.10          | 35.3           |           | 0.54  | 1.94       | ug/m3 |
| 75-00-3        | Chloroethane                   | 9.30          | 24.5           |           | 0.45  | 1.32       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 9.30          | 27.4           |           | 0.38  | 1.47       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 10.3          | 57.9           |           | 0.90  | 2.81       | ug/m3 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 9.70          | 74.3           |           | 1.23  | 3.83       | ug/m3 |
| 76-14-2        | Dichlorotetrafluoroethane      | 10.3          | 72.0           |           | 0.63  | 3.49       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 9.00          | 27.3           |           | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 9.20          | 37.7           |           | 0.45  | 2.05       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 9.20          | 36.5           |           | 0.56  | 1.98       | ug/m3 |
| 67-64-1        | Acetone                        | 8.90          | 21.1           |           | 0.57  | 1.19       | ug/m3 |
| 75-15-0        | Carbon Disulfide               | 9.30          | 29.0           |           | 0.50  | 1.56       | ug/m3 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 11.0          | 39.7           |           | 0.43  | 1.80       | ug/m3 |
| 75-09-2        | Methylene Chloride             | 8.40          | 29.2           |           | 0.66  | 1.74       | ug/m3 |
| 156-60-5       | trans-1,2-Dichloroethene       | 9.20          | 36.5           |           | 0.75  | 1.98       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 10.0          | 40.5           |           | 0.53  | 2.02       | ug/m3 |
| 110-82-7       | Cyclohexane                    | 9.40          | 32.4           |           | 0.76  | 1.72       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 9.50          | 28.0           |           | 0.35  | 1.47       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 10.6          | 66.7           |           | 0.060 | 0.19       | ug/m3 |
| 156-59-2       | cis-1,2-Dichloroethene         | 10.0          | 39.6           |           | 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          | 9.80          | 53.5           |           | 0.050 | 0.16       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 9.50          | 44.4           |           | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 9.80          | 31.3           |           | 0.29  | 1.60       | ug/m3 |
| 107-06-2       | 1,2-Dichloroethane             | 11.0          | 44.5           |           | 0.36  | 2.02       | ug/m3 |
| 79-01-6        | Trichloroethene                | 9.70          | 52.1           |           | 0.11  | 0.16       | ug/m3 |
| 78-87-5        | 1,2-Dichloropropane            | 9.70          | 44.8           |           | 0.51  | 2.31       | ug/m3 |
| 75-27-4        | Bromodichloromethane           | 10.8          | 72.3           |           | 0.54  | 3.35       | ug/m3 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 8.60          | 35.2           |           | 0.37  | 2.05       | ug/m3 |
| 108-88-3       | Toluene                        | 9.60          | 36.2           |           | 0.41  | 1.88       | ug/m3 |
| 10061-02-6     | t-1,3-Dichloropropene          | 9.10          | 41.3           |           | 0.27  | 2.27       | ug/m3 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 9.40          | 42.7           |           | 0.27  | 2.27       | ug/m3 |
| 79-00-5        | 1,1,2-Trichloroethane          | 10.2          | 55.6           |           | 0.38  | 2.73       | ug/m3 |

## Report of Analysis

|                    |                                                 |                 |       |
|--------------------|-------------------------------------------------|-----------------|-------|
| Client:            | Woodard & Curran                                | Date Collected: |       |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  |       |
| Client Sample ID:  | VL0331ABS01                                     | SDG No.:        | Q1669 |
| Lab Sample ID:     | VL0331ABS01                                     | 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 |
| VL042203.D        | 1         |           | 03/31/25 10:17 | VL033125      |

| CAS Number                | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|---------------------------|---------------|----------------|-----------|---------------------|------------|---------|
| 124-48-1                  | Dibromochloromethane      | 10.6          | 90.3           |           | 0.60                | 4.26       | ug/m3   |
| 106-93-4                  | 1,2-Dibromoethane         | 10.3          | 79.2           |           | 0.54                | 0.77       | ug/m3   |
| 127-18-4                  | Tetrachloroethene         | 9.00          | 61.0           |           | 0.14                | 0.20       | ug/m3   |
| 108-90-7                  | Chlorobenzene             | 10.4          | 47.9           |           | 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                | 20.6          | 89.5           |           | 0.91                | 4.34       | ug/m3   |
| 95-47-6                   | o-Xylene                  | 10.4          | 45.2           |           | 0.52                | 2.17       | ug/m3   |
| 100-42-5                  | Styrene                   | 10.1          | 43.0           |           | 0.47                | 2.13       | ug/m3   |
| 75-25-2                   | Bromoform                 | 10.3          | 107            |           | 0.62                | 5.17       | ug/m3   |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane | 10.4          | 71.4           |           | 0.070               | 0.21       | ug/m3   |
| 95-49-8                   | 2-Chlorotoluene           | 10.3          | 53.3           |           | 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    | 9.80          | 48.2           |           | 0.39                | 2.46       | ug/m3   |
| 541-73-1                  | 1,3-Dichlorobenzene       | 10.5          | 63.1           |           | 0.48                | 3.01       | ug/m3   |
| 106-46-7                  | 1,4-Dichlorobenzene       | 10.5          | 63.1           |           | 0.30                | 3.01       | ug/m3   |
| 95-50-1                   | 1,2-Dichlorobenzene       | 10.6          | 63.7           |           | 0.48                | 3.01       | ug/m3   |
| 120-82-1                  | 1,2,4-Trichlorobenzene    | 9.30          | 69.0           |           | 0.67                | 3.71       | ug/m3   |
| 87-68-3                   | Hexachloro-1,3-Butadiene  | 8.40          | 89.6           |           | 0.96                | 5.33       | ug/m3   |
| 106-99-0                  | 1,3-Butadiene             | 8.70          | 19.3           |           | 0.29                | 1.11       | ug/m3   |
| 91-20-3                   | Naphthalene               | 9.50          | 49.8           |           | 0.42                | 0.52       | ug/m3   |
| 622-96-8                  | 4-Ethyltoluene            | 10.5          | 51.6           |           | 0.59                | 2.46       | ug/m3   |
| 110-54-3                  | Hexane                    | 9.50          | 33.5           |           | 0.39                | 1.76       | ug/m3   |
| 107-05-1                  | Allyl Chloride            | 8.90          | 27.9           |           | 0.47                | 1.57       | ug/m3   |
| 123-91-1                  | 1,4-Dioxane               | 8.90          | 32.1           |           | 0.76                | 1.80       | ug/m3   |
| 80-62-6                   | Methyl Methacrylate       | 9.20          | 37.7           |           | 0.37                | 2.05       | ug/m3   |
| <b>SURROGATES</b>         |                           |               |                |           |                     |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene   | 10.3          |                |           | 70 (65) - 130 (135) | 103%       | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                           |               |                |           |                     |            |         |
| 74-97-5                   | Bromochloromethane        | 176000        |                | 2.803     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene       | 499000        |                | 3.981     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5          | 456000        |                | 8.904     |                     |            |         |

## Report of Analysis

|                    |                                                 |                 |       |
|--------------------|-------------------------------------------------|-----------------|-------|
| Client:            | Woodard & Curran                                | Date Collected: |       |
| Project:           | US EPA Riverside Industrial Park Superfund Site | Date Received:  |       |
| Client Sample ID:  | VL0331ABS01                                     | SDG No.:        | Q1669 |
| Lab Sample ID:     | VL0331ABS01                                     | 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 |
| VL042203.D        | 1         |           | 03/31/25 10:17 | VL033125      |

| 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\VL033125\  
 Data File : VL042203.D  
 Acq On : 31 Mar 2025 10:17  
 Operator : SY/MD  
 Sample : VL0331ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0331ABS01

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/01/2025  
 Supervised By : Mahesh Dadoda 04/01/2025

Quant Time: Apr 01 01:35:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 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   | 2.803 | 49   | 175685   | 10.000 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 3.981 | 114  | 498986   | 10.000 | ppbv  | 0.03     |
| 55) Chlorobenzene-d5    | 8.904 | 117  | 456400   | 10.000 | ppbv  | 0.03     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.396 95 385330 10.281 ppbv 0.03  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.800%

#### Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.505 | 85  | 270376 | 10.423 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.482 | 51  | 262345 | 9.900  | ppbv   | 95     |
| 4) Chloromethane              | 1.538 | 50  | 102731 | 9.691  | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.586 | 62  | 97910  | 8.716  | ppbv   | 95     |
| 6) Bromomethane               | 1.673 | 94  | 43862  | 9.130  | ppbv   | 98     |
| 7) Chloroethane               | 1.712 | 64  | 39774  | 9.347  | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 1.560 | 85  | 228198 | 10.330 | ppbv   | 94     |
| 9) Propene                    | 1.489 | 41  | 104679 | 8.618  | ppbv   | 98     |
| 10) Heptane                   | 5.007 | 43  | 298492 | 9.239  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.887 | 101 | 258953 | 10.260 | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluo... | 2.149 | 101 | 200210 | 9.650  | ppbv   | 96     |
| 13) Ethanol                   | 1.732 | 45  | 5239   | 4.563  | ppbv   | 91     |
| 14) Bromoethene               | 1.790 | 108 | 74401  | 9.361  | ppbv   | 98     |
| 15) Acetone                   | 1.845 | 43  | 218378 | 8.888  | ppbv   | 95     |
| 16) 1,3-Butadiene             | 1.615 | 39  | 104247 | 8.688  | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 276592 | 9.038  | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.042 | 96  | 89252  | 9.202  | ppbv   | 99     |
| 19) Isopropyl Alcohol         | 1.894 | 45  | 127449 | 9.193  | ppbv   | 99     |
| 20) Methylene Chloride        | 2.072 | 84  | 76788  | 8.391  | ppbv   | 97     |
| 21) Allyl Chloride            | 2.107 | 41  | 154876 | 8.938  | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.353 | 96  | 102643 | 9.157  | ppbv   | 96     |
| 23) Vinyl Acetate             | 2.476 | 43  | 89760  | 8.441  | ppbv # | 95     |
| 24) 1,1-Dichloroethane        | 2.421 | 63  | 208334 | 10.026 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.852 | 43  | 609975 | 9.565  | ppbv   | 99     |
| 26) Hexane                    | 2.842 | 57  | 234267 | 9.511  | ppbv   | 99     |
| 27) Carbon Disulfide          | 2.159 | 76  | 245905 | 9.310  | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 2.454 | 73  | 169404 | 11.046 | ppbv   | 94     |
| 29) Chloroform                | 2.865 | 83  | 382690 | 10.616 | ppbv   | 100    |
| 30) Cyclohexane               | 3.881 | 84  | 200894 | 9.393  | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene    | 2.735 | 61  | 249599 | 9.981  | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 3.386 | 97  | 402506 | 9.753  | ppbv   | 99     |
| 34) 2-Butanone                | 2.570 | 43  | 343896 | 9.504  | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.784 | 117 | 412312 | 10.578 | ppbv   | 99     |
| 36) Benzene                   | 3.677 | 78  | 482499 | 9.754  | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 3.237 | 62  | 310502 | 10.964 | ppbv   | 98     |
| 38) Trichloroethene           | 4.577 | 130 | 201215 | 9.749  | ppbv   | 95     |
| 39) 1,2-Dichloropropane       | 4.340 | 63  | 174119 | 9.665  | ppbv   | 92     |
| 40) 1,4-Dioxane               | 4.616 | 88  | 84833  | 8.872  | ppbv # | 91     |
| 41) Tetrahydrofuran           | 3.072 | 42  | 194140 | 9.318  | ppbv   | 99     |
| 42) Bromodichloromethane      | 4.515 | 83  | 422881 | 10.831 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 4.913 | 69  | 191894 | 9.163  | ppbv   | 100    |
| 44) 2,2,4-Trimethylpentane    | 4.667 | 57  | 792762 | 9.483  | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 6.447 | 75  | 203792 | 9.071  | ppbv   | 94     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
 Data File : VL042203.D  
 Acq On : 31 Mar 2025 10:17  
 Operator : SY/MD  
 Sample : VL0331ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0331ABS01

Quant Time: Apr 01 01:35:57 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 02:00:52 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/01/2025  
 Supervised By : Mahesh Dadoda 04/01/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.632  | 75   | 258084   | 9.371  | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.616  | 97   | 194204   | 10.197 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.415  | 129  | 342254   | 10.604 | ppbv   | 99       |
| 49) Bromoform                 | 9.506  | 173  | 298349   | 10.296 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.787  | 43   | 493320   | 8.603  | ppbv   | 98       |
| 51) 2-Hexanone                | 7.464  | 43   | 405558   | 8.613  | ppbv   | 97       |
| 52) Tetrachloroethene         | 8.250  | 164  | 176804   | 9.012  | ppbv   | 95       |
| 53) Toluene                   | 6.965  | 91   | 560307   | 9.555  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.681  | 107  | 273381   | 10.298 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.946  | 131  | 266468   | 10.607 | ppbv   | 98       |
| 57) Chlorobenzene             | 8.946  | 112  | 448854   | 10.368 | ppbv # | 95       |
| 58) Ethyl Benzene             | 9.377  | 91   | 815513   | 10.059 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.574  | 91   | 1331237m | 20.565 | ppbv   |          |
| 60) o-Xylene                  | 9.985  | 91   | 673552   | 10.379 | ppbv   | 99       |
| 61) Styrene                   | 9.891  | 104  | 322981   | 10.060 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.558 | 105  | 1021273  | 10.524 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.985  | 83   | 411620   | 10.440 | ppbv   | 100      |
| 64) n-propylbenzene           | 11.008 | 120  | 264706   | 10.596 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.548 | 119  | 913025   | 10.173 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.633 | 91   | 78394    | 8.232  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.785 | 105  | 1292454  | 10.360 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.943 | 119  | 1113087  | 10.362 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.296 | 91   | 1144962  | 10.422 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.921 | 91   | 775424   | 10.295 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.144 | 105  | 848380   | 10.500 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.222 | 105  | 736772   | 10.441 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.555 | 105  | 800063   | 9.841  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.626 | 146  | 470306   | 10.548 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.688 | 146  | 467631   | 10.538 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.963 | 146  | 460911   | 10.617 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.898 | 225  | 371995   | 8.418  | ppbv   | 100      |
| 79) Naphthalene               | 13.529 | 128  | 840768   | 9.455  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 328839   | 7.541  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 381981   | 9.313  | ppbv   | 99       |

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

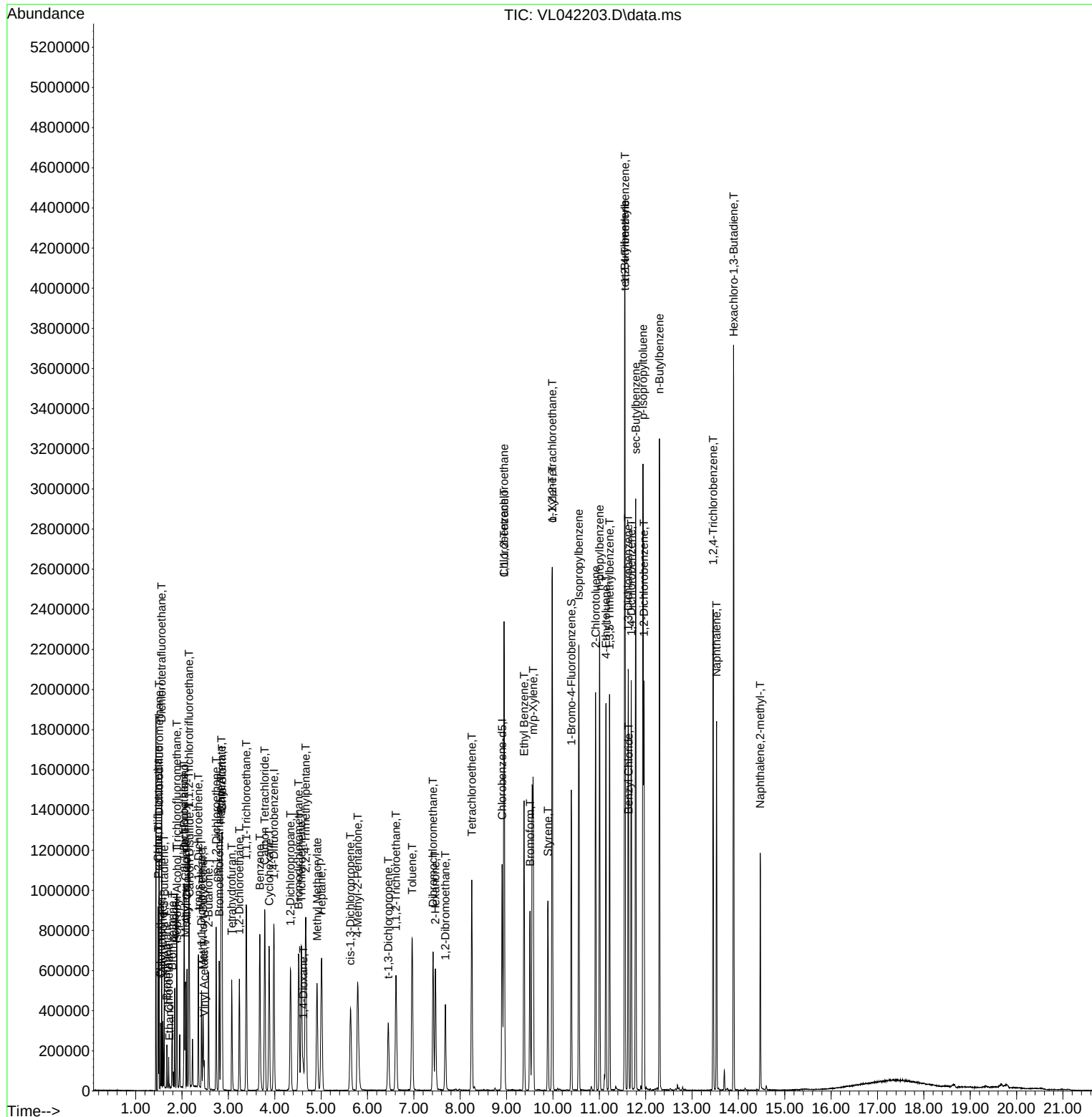
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 Acq On : 31 Mar 2025 10:17  
 Operator : SY/MD  
 Sample : VL0331ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0331ABS01

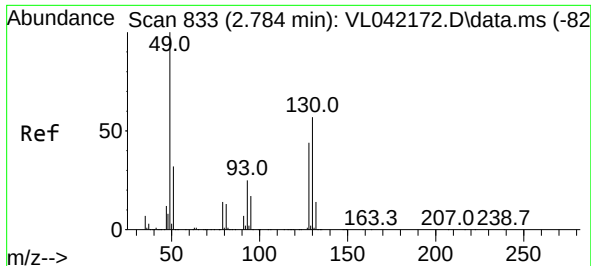
### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025

Quant Time: Apr 01 01:35:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
 QLast Update : Fri Mar 28 02:00:52 2025  
 Response via : Initial Calibration

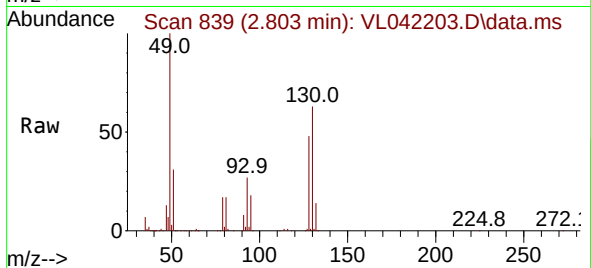






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.803 min Scan# 81  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

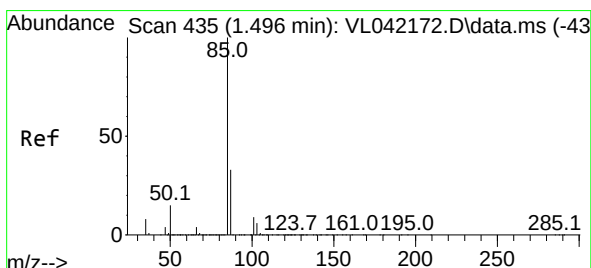
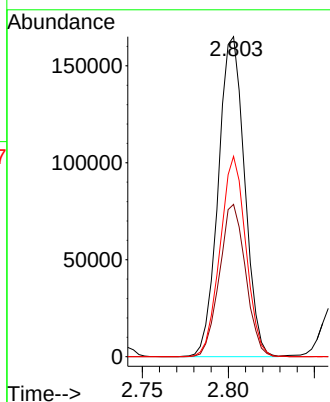
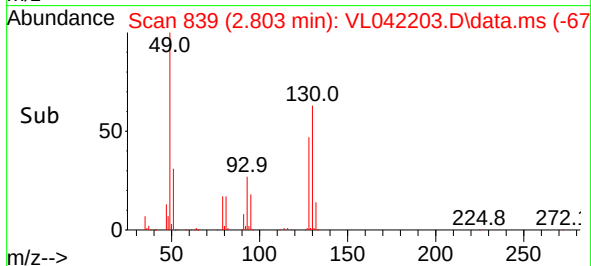
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



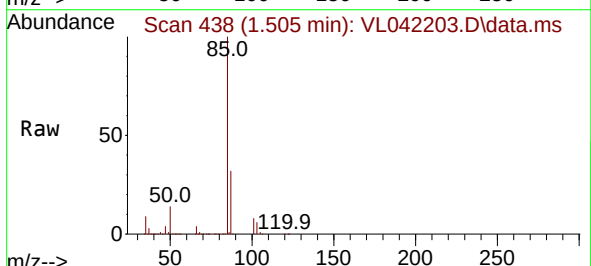
Tgt Ion: 49 Resp: 17568  
Ion Ratio Lower Upper  
49 100  
128 47.2 22.9 68.5  
130 61.2 28.8 86.4

Manual Integrations  
APPROVED

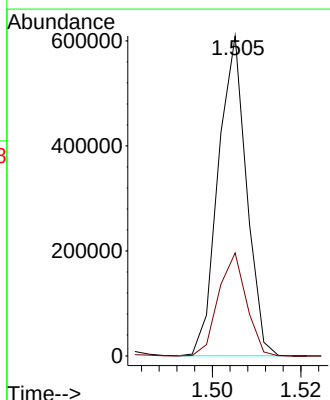
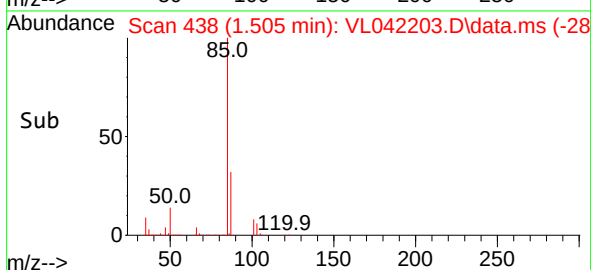
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

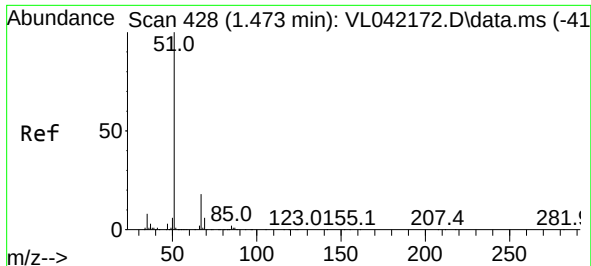


#2  
Dichlorodifluoromethane  
Concen: 10.423 ppbv  
RT: 1.505 min Scan# 438  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



Tgt Ion: 85 Resp: 270376  
Ion Ratio Lower Upper  
85 100  
87 32.2 26.1 39.1





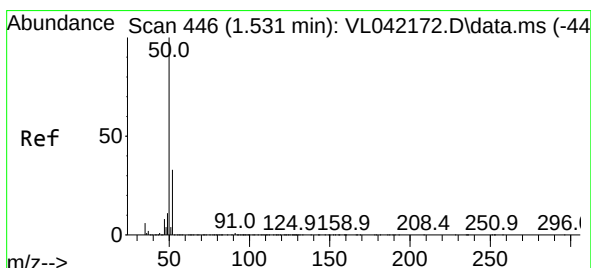
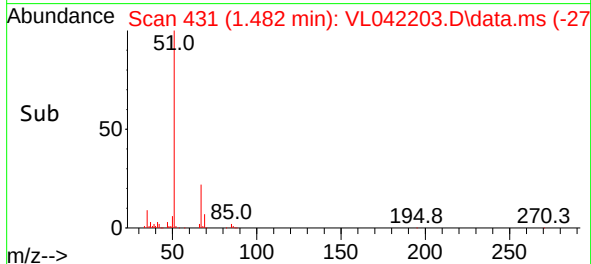
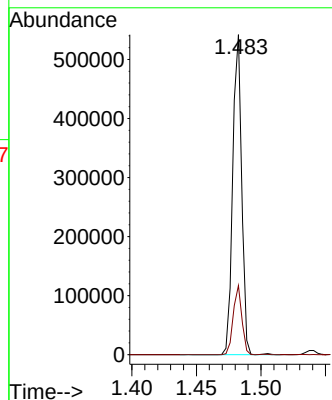
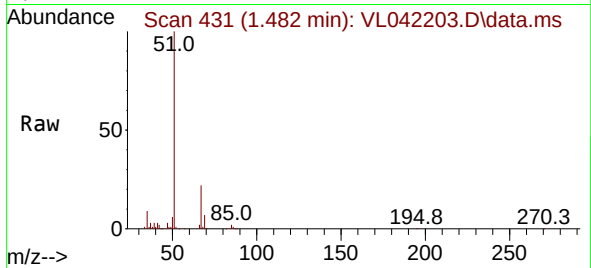
#3  
Chlorodifluoromethane  
Concen: 9.900 ppbv  
RT: 1.482 min Scan# 41  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

Tgt Ion: 51 Resp: 262349  
Ion Ratio Lower Upper  
51 100  
67 21.0 15.0 22.6

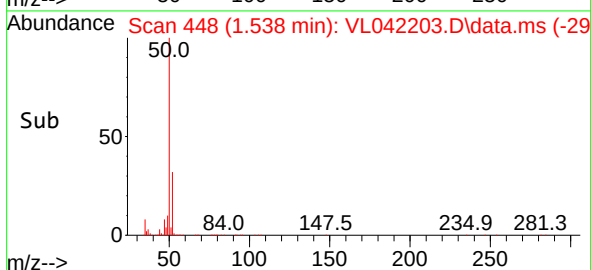
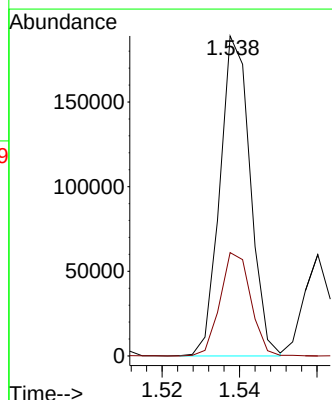
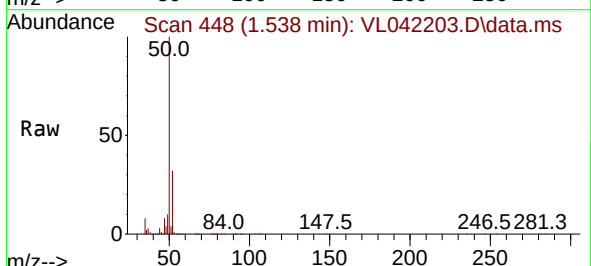
Manual Integrations  
APPROVED

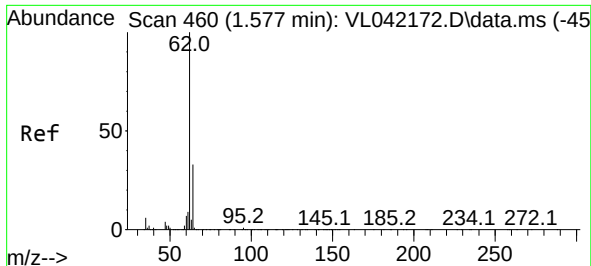
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#4  
Chloromethane  
Concen: 9.691 ppbv  
RT: 1.538 min Scan# 448  
Delta R.T. 0.006 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 50 Resp: 102731  
Ion Ratio Lower Upper  
50 100  
52 32.3 26.1 39.1





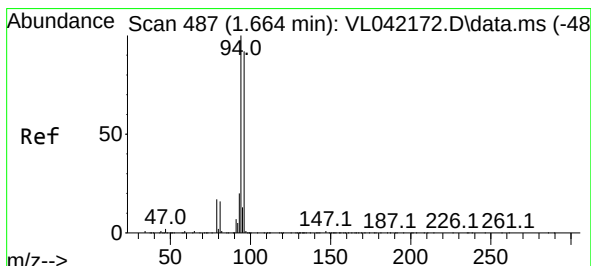
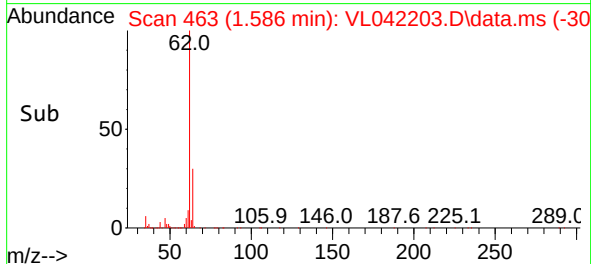
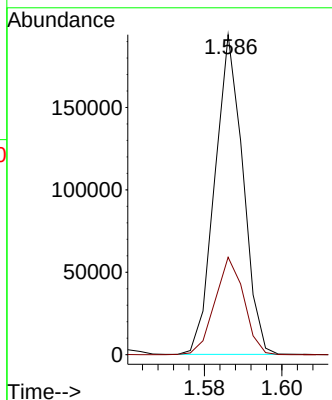
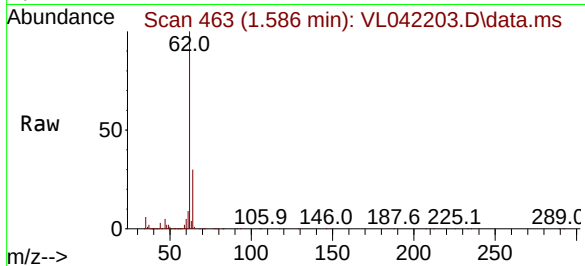
#5  
 Vinyl Chloride  
 Concen: 8.716 ppbv  
 RT: 1.586 min Scan# 40  
 Delta R.T. 0.009 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0331ABS01

Tgt Ion: 62 Resp: 97910  
 Ion Ratio Lower Upper  
 62 100  
 64 30.5 26.6 40.0

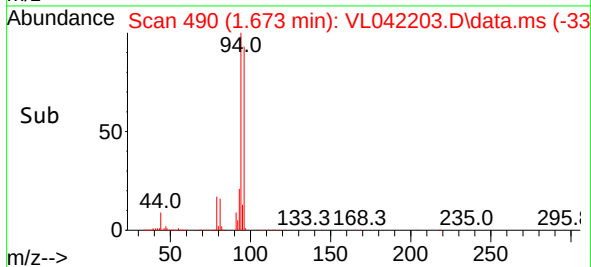
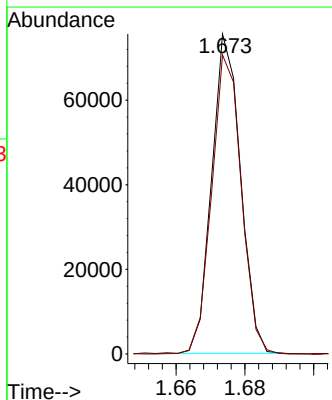
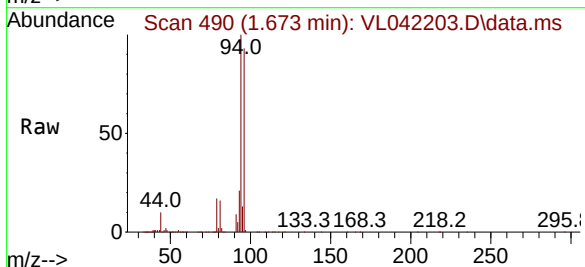
Manual Integrations  
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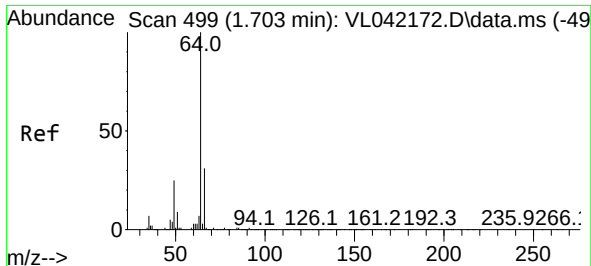
Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025



#6  
 Bromomethane  
 Concen: 9.130 ppbv  
 RT: 1.673 min Scan# 490  
 Delta R.T. 0.009 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

Tgt Ion: 94 Resp: 43862  
 Ion Ratio Lower Upper  
 94 100  
 96 93.5 73.1 109.7





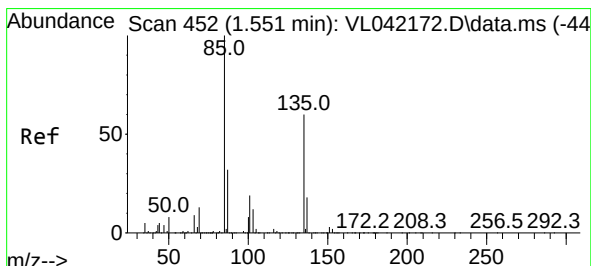
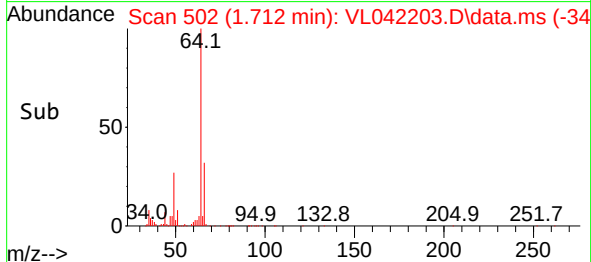
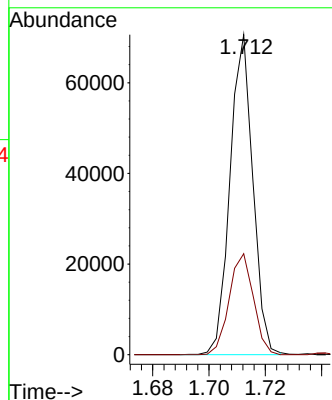
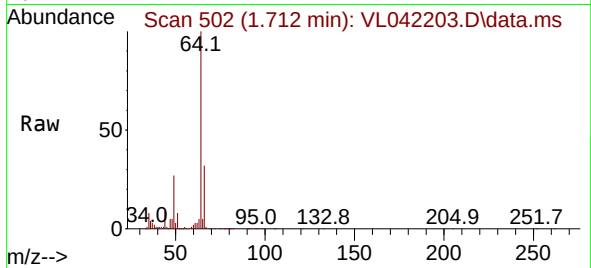
#7  
Chloroethane  
Concen: 9.347 ppbv  
RT: 1.712 min Scan# 502  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

Tgt Ion: 64 Resp: 39774  
Ion Ratio Lower Upper  
64 100  
66 31.6 25.2 37.8

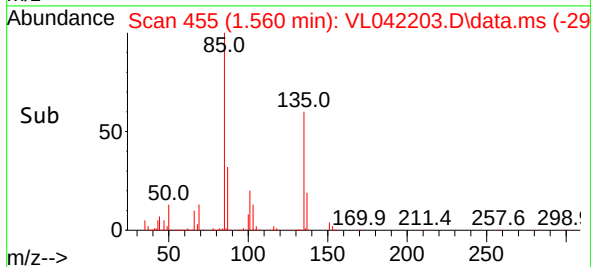
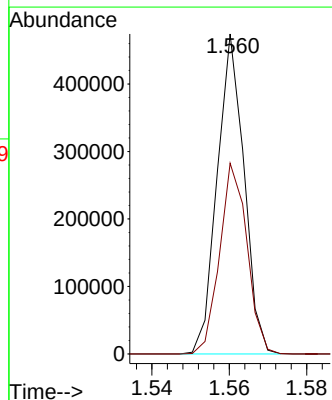
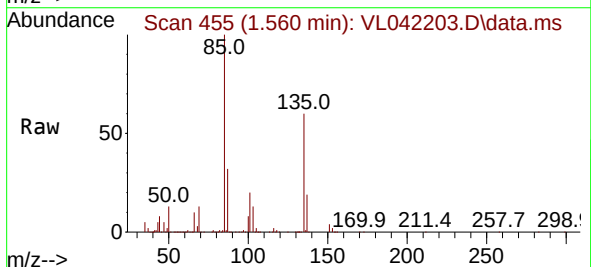
Manual Integrations  
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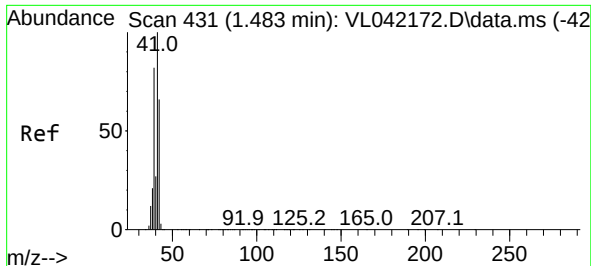
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#8  
Dichlorotetrafluoroethane  
Concen: 10.330 ppbv  
RT: 1.560 min Scan# 455  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

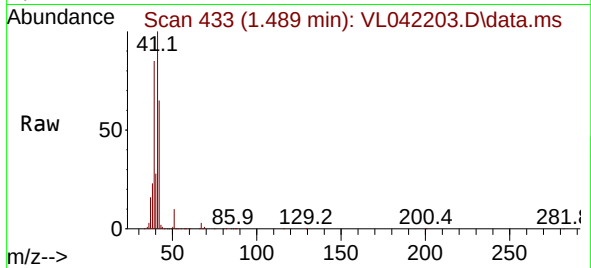
Tgt Ion: 85 Resp: 228198  
Ion Ratio Lower Upper  
85 100  
135 60.9 52.4 78.6





#9  
Propene  
Concen: 8.618 ppbv  
RT: 1.489 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

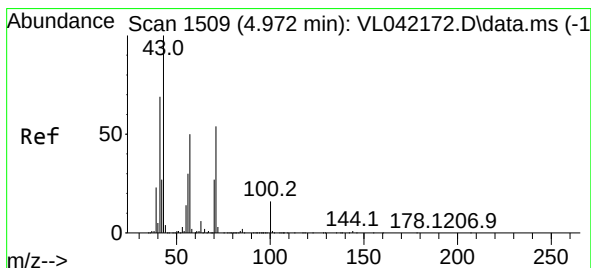
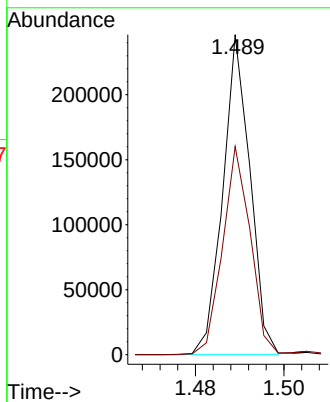
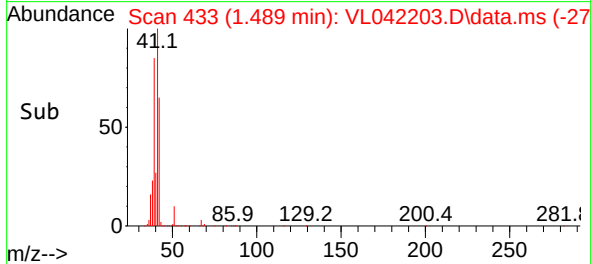
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



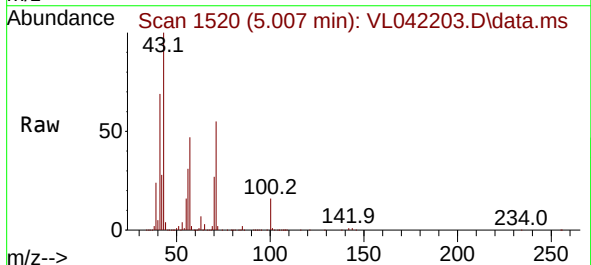
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Ion Ratio Lower Upper  
41 100  
42 67.9 55.4 83.2

Manual Integrations  
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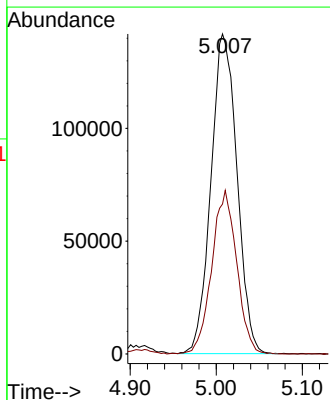
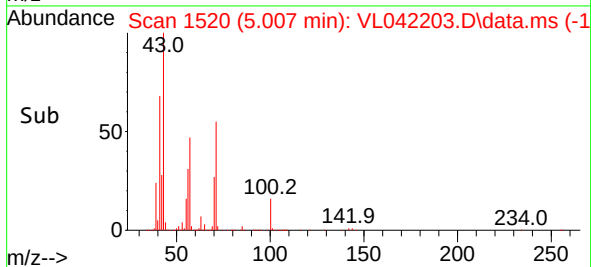
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

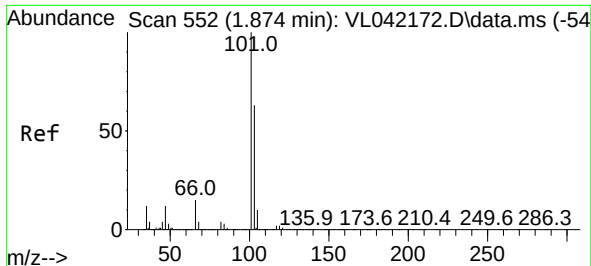


#10  
Heptane  
Concen: 9.239 ppbv  
RT: 5.007 min Scan# 1520  
Delta R.T. 0.035 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



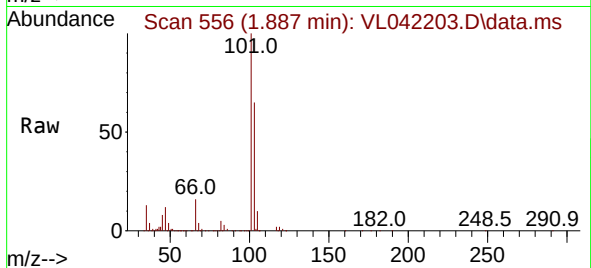
Tgt Ion: 43 Resp: 298492  
Ion Ratio Lower Upper  
43 100  
57 48.9 39.4 59.2





#11  
Trichlorofluoromethane  
Concen: 10.260 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

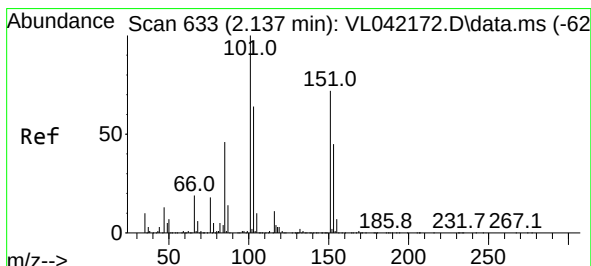
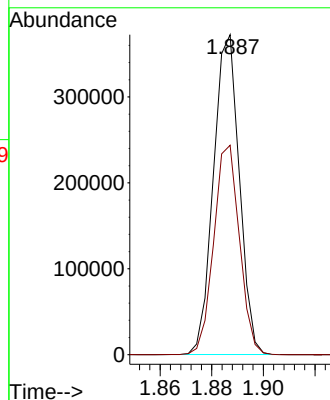
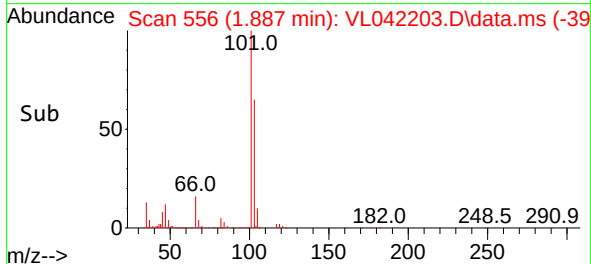
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



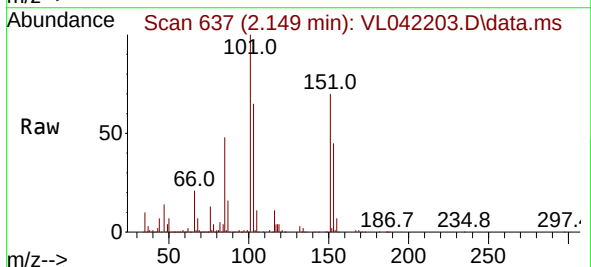
Tgt Ion:101 Resp: 25895  
Ion Ratio Lower Upper  
101 100  
103 65.5 50.2 75.2

Manual Integrations  
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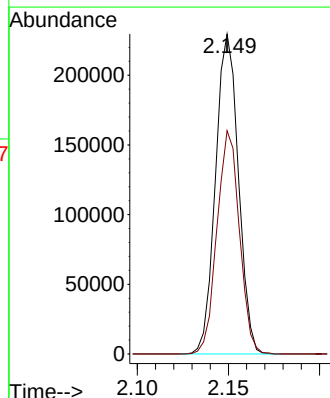
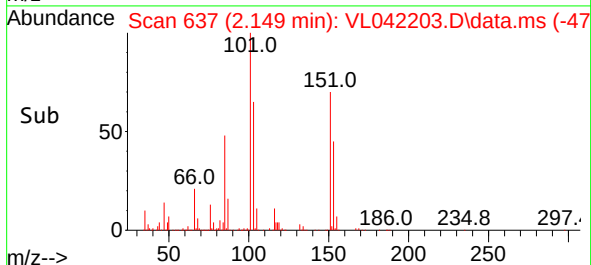
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

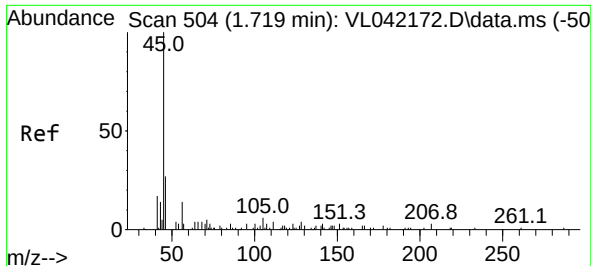


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.650 ppbv  
RT: 2.149 min Scan# 637  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



Tgt Ion:101 Resp: 200210  
Ion Ratio Lower Upper  
101 100  
151 68.5 57.1 85.7





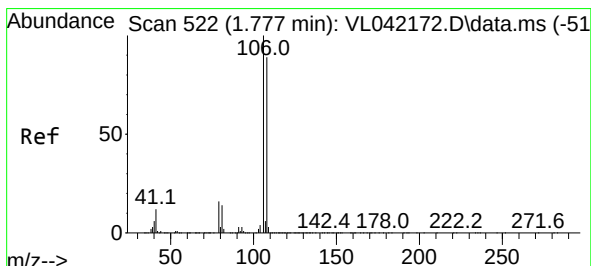
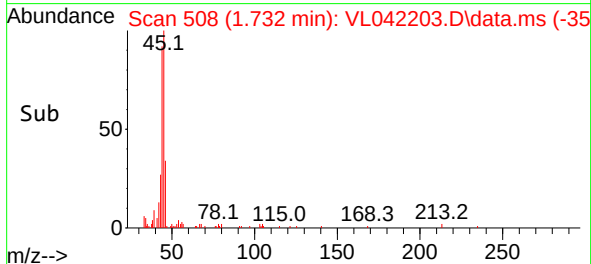
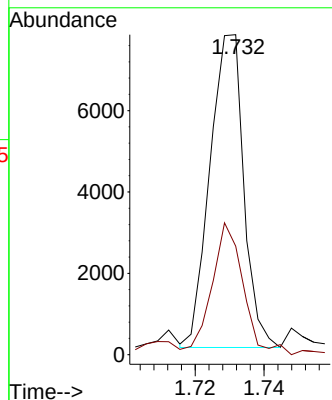
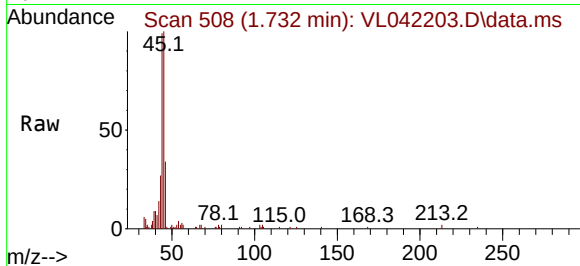
#13  
Ethanol  
Concen: 4.563 ppbv  
RT: 1.732 min Scan# 504  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

Tgt Ion: 45 Resp: 5239  
Ion Ratio Lower Upper  
45 100  
46 44.4 20.2 80.8

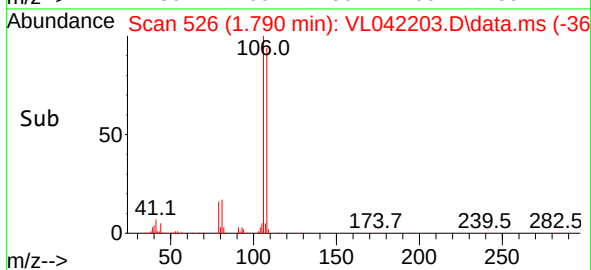
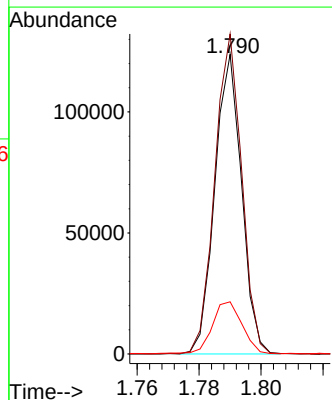
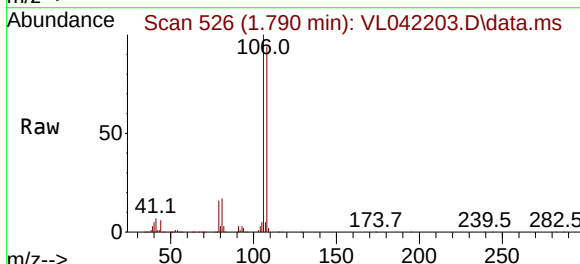
Manual Integrations  
APPROVED

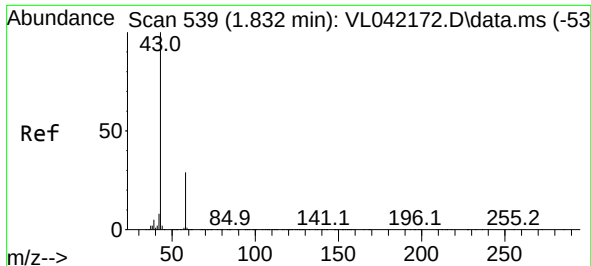
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#14  
Bromoethene  
Concen: 9.361 ppbv  
RT: 1.790 min Scan# 526  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion:108 Resp: 74401  
Ion Ratio Lower Upper  
108 100  
106 107.1 86.8 130.2  
79 20.2 15.0 22.6





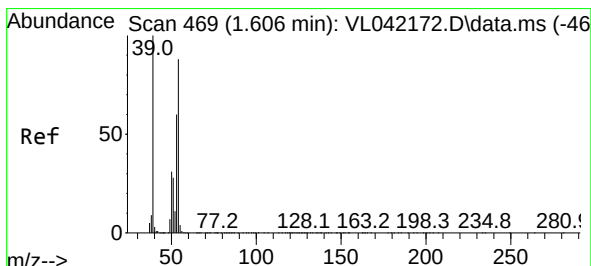
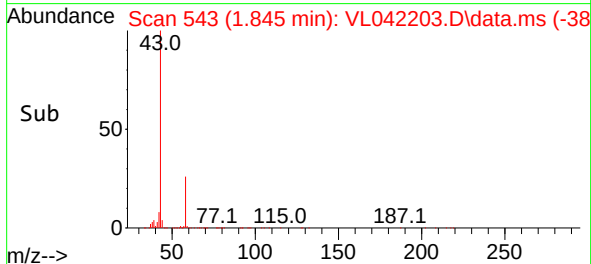
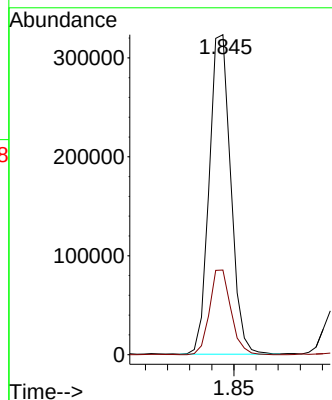
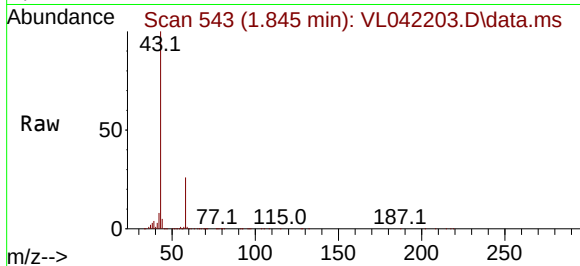
#15  
Acetone  
Concen: 8.888 ppbv  
RT: 1.845 min Scan# 54  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

Tgt Ion: 43 Resp: 218378  
Ion Ratio Lower Upper  
43 100  
58 26.4 23.2 34.8

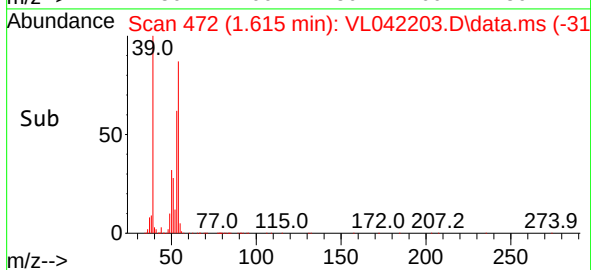
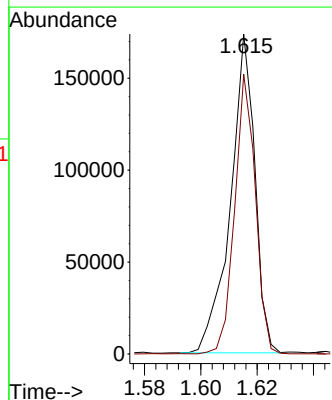
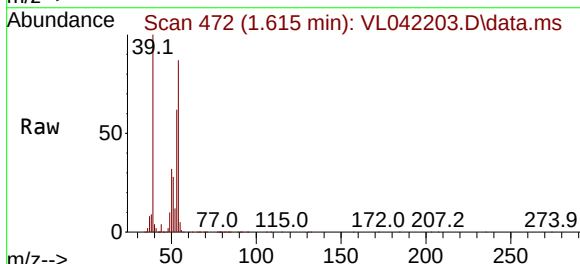
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

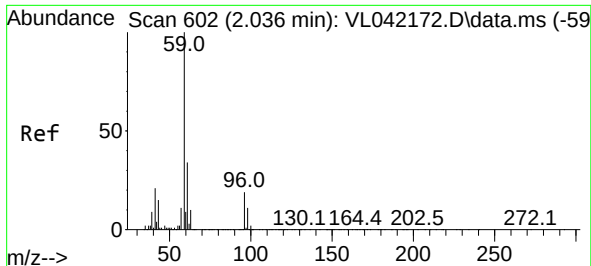


#16  
1,3-Butadiene  
Concen: 8.688 ppbv  
RT: 1.615 min Scan# 472  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 39 Resp: 104247  
Ion Ratio Lower Upper  
39 100  
54 74.6 60.7 91.1







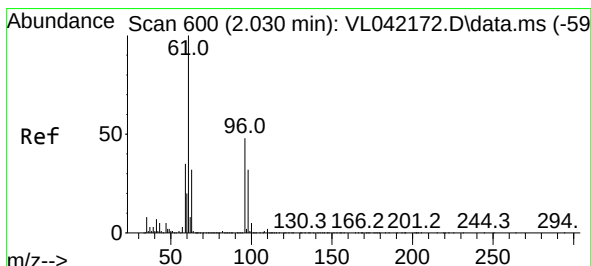
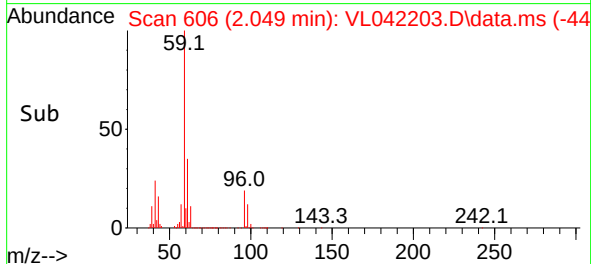
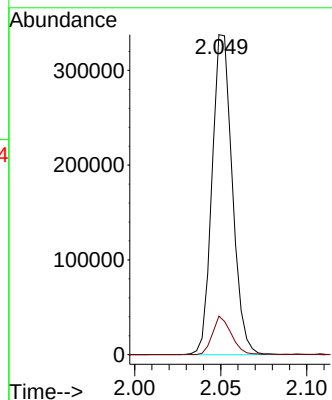
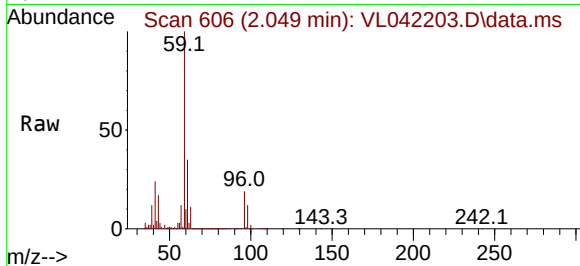
#17  
tert-Butyl alcohol  
Concen: 9.038 ppbv  
RT: 2.049 min Scan# 604  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

Tgt Ion: 59 Resp: 276592  
Ion Ratio Lower Upper  
59 100  
57 11.4 8.9 13.3

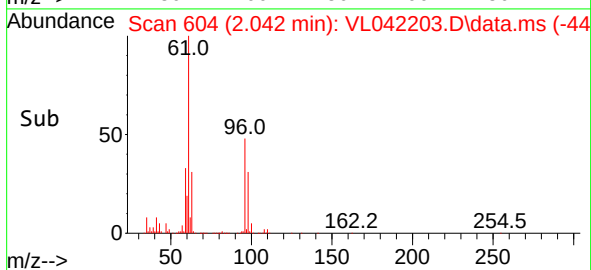
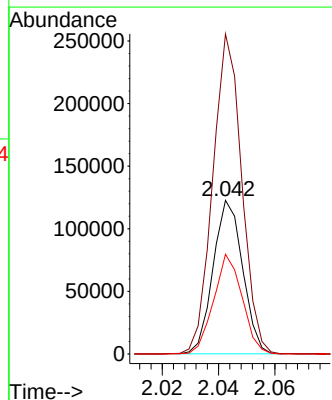
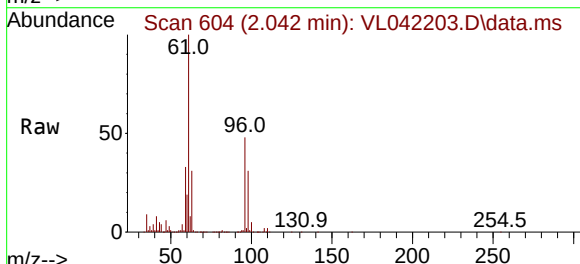
Manual Integrations  
APPROVED

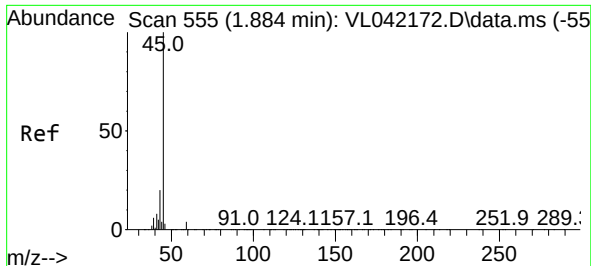
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#18  
1,1-Dichloroethene  
Concen: 9.202 ppbv  
RT: 2.042 min Scan# 604  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 96 Resp: 89252  
Ion Ratio Lower Upper  
96 100  
61 208.4 167.6 251.4  
98 65.0 53.5 80.3





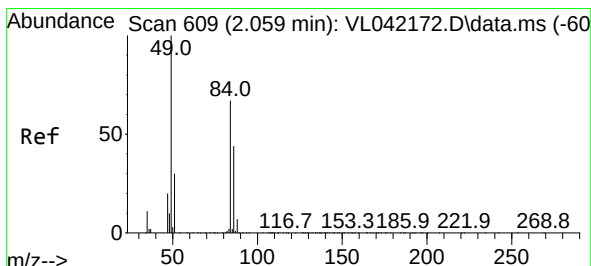
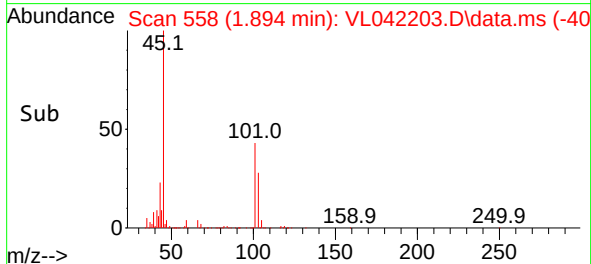
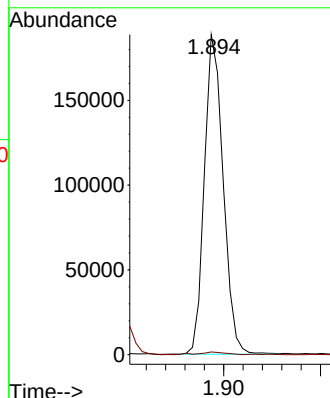
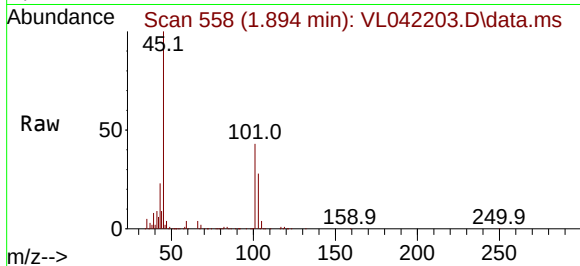
#19  
Isopropyl Alcohol  
Concen: 9.193 ppbv  
RT: 1.894 min Scan# 51  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

Tgt Ion: 45 Resp: 127449  
Ion Ratio Lower Upper  
45 100  
58 45.3 36.9 55.3

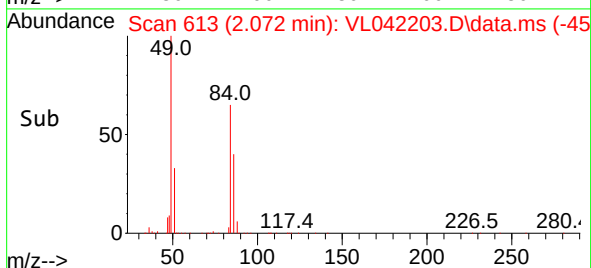
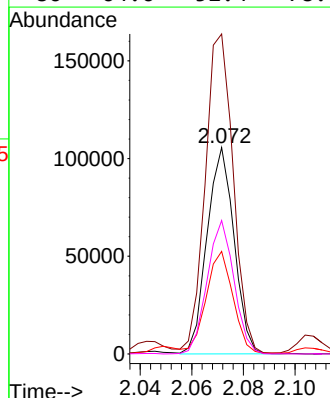
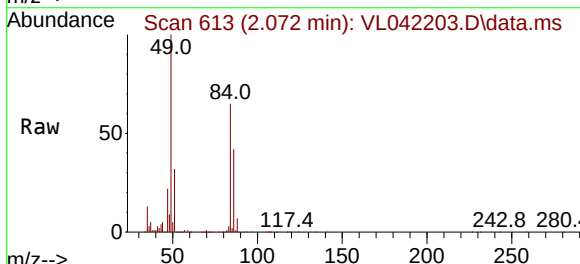
Manual Integrations  
APPROVED

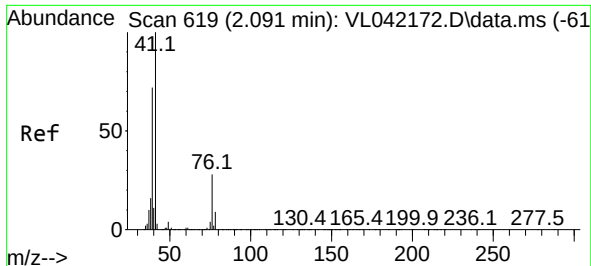
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#20  
Methylene Chloride  
Concen: 8.391 ppbv  
RT: 2.072 min Scan# 613  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

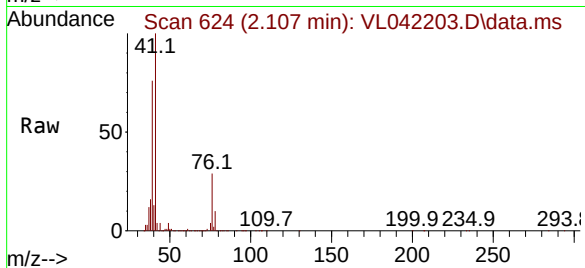
Tgt Ion: 84 Resp: 76788  
Ion Ratio Lower Upper  
84 100  
49 154.6 120.2 180.4  
51 49.3 37.4 56.0  
86 64.6 52.4 78.6





#21  
 Allyl Chloride  
 Concen: 8.938 ppbv  
 RT: 2.107 min Scan# 61  
 Delta R.T. 0.016 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

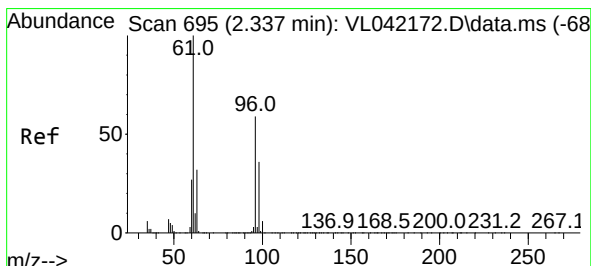
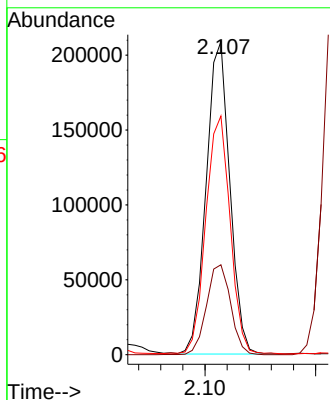
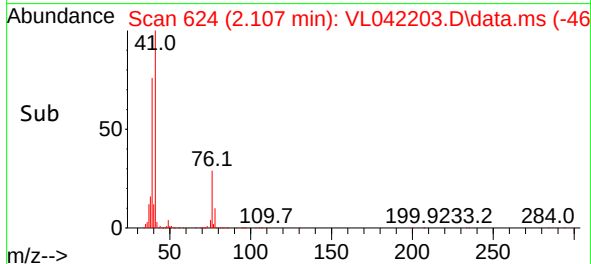
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0331ABS01



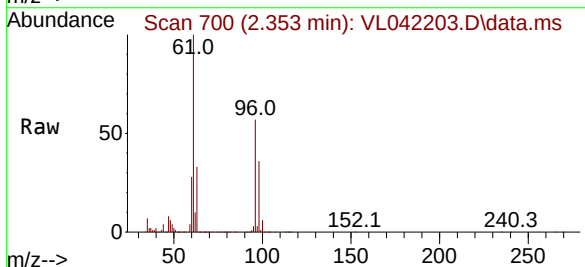
Tgt Ion: 41 Resp: 154870  
 Ion Ratio Lower Upper  
 41 100  
 76 29.3 24.1 36.1  
 39 78.1 61.1 91.7

Manual Integrations  
 APPROVED

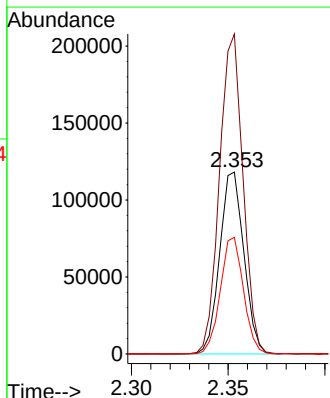
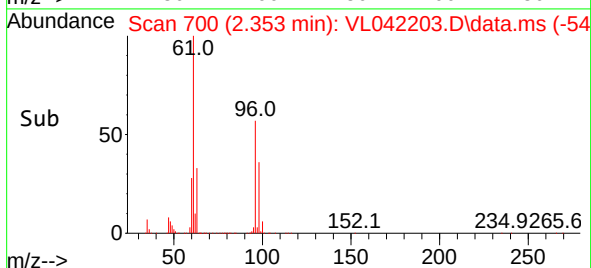
Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025

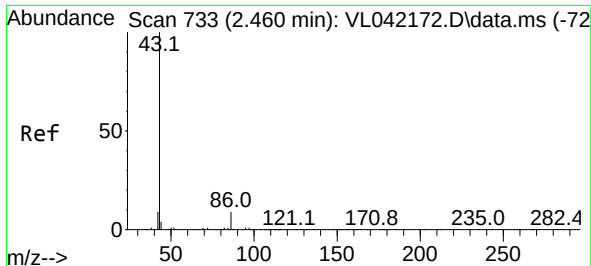


#22  
 trans-1,2-Dichloroethene  
 Concen: 9.157 ppbv  
 RT: 2.353 min Scan# 700  
 Delta R.T. 0.016 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17



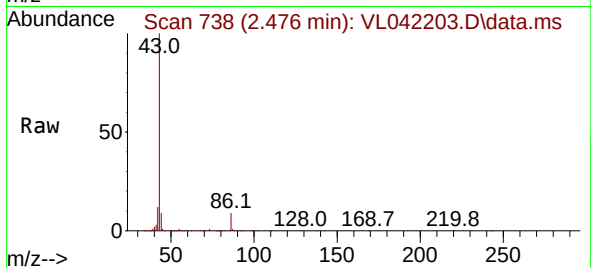
Tgt Ion: 96 Resp: 102643  
 Ion Ratio Lower Upper  
 96 100  
 61 175.8 136.6 204.8  
 98 64.1 49.4 74.2





#23  
 Vinyl Acetate  
 Concen: 8.441 ppbv  
 RT: 2.476 min Scan# 71  
 Delta R.T. 0.016 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

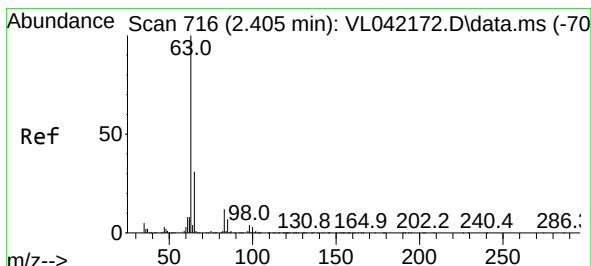
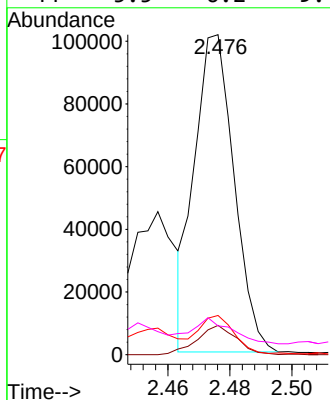
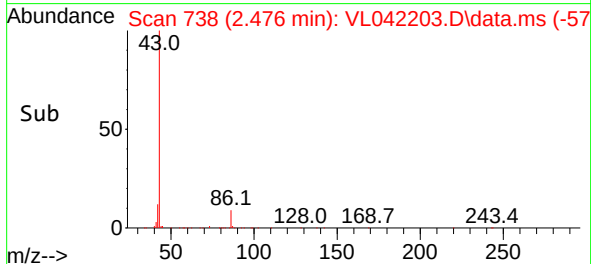
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0331ABS01



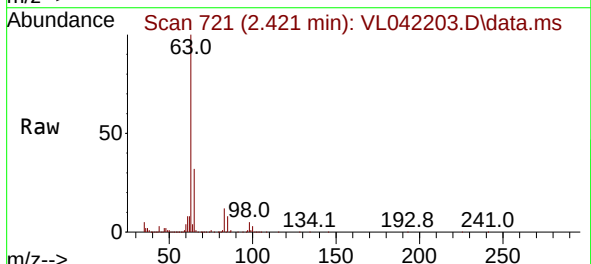
Tgt Ion: 43 Resp: 89760  
 Ion Ratio Lower Upper  
 43 100  
 86 9.2 5.5 8.3  
 42 11.8 8.6 13.0  
 44 5.5 6.2 9.4#

Manual Integrations  
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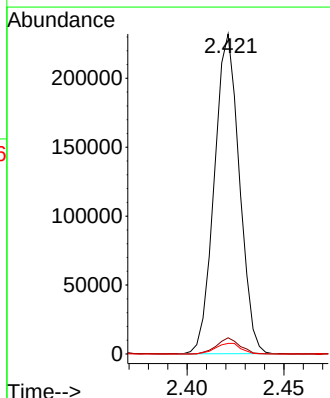
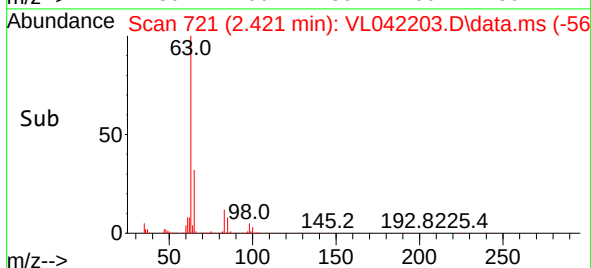
Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025

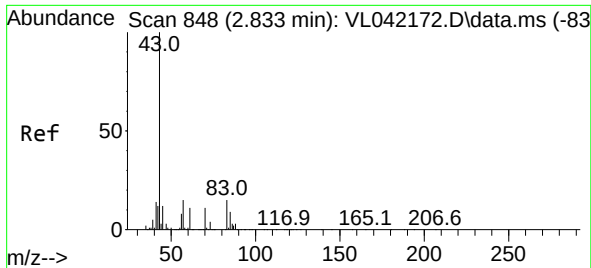


#24  
 1,1-Dichloroethane  
 Concen: 10.026 ppbv  
 RT: 2.421 min Scan# 721  
 Delta R.T. 0.016 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17



Tgt Ion: 63 Resp: 208334  
 Ion Ratio Lower Upper  
 63 100  
 98 5.0 2.3 6.8  
 100 3.3 1.6 4.7





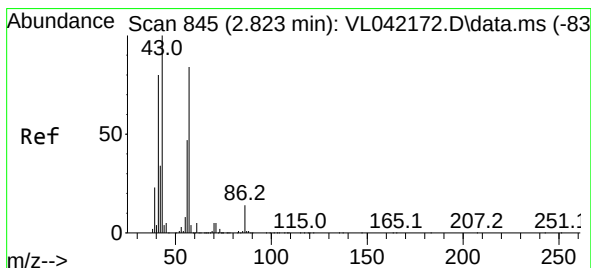
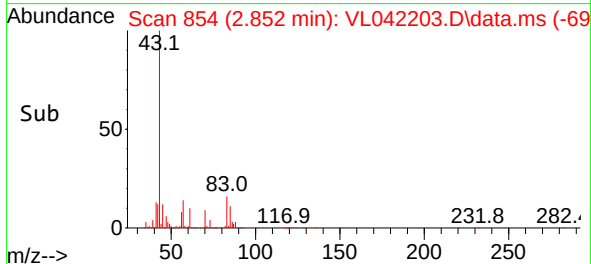
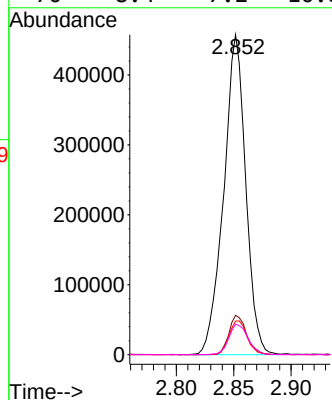
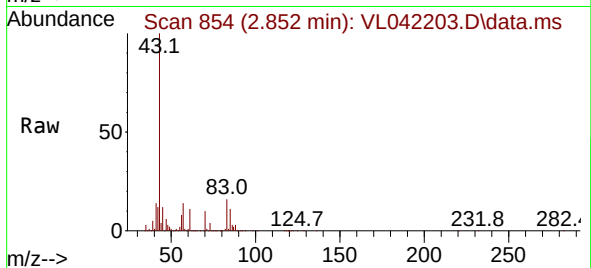
#25  
Ethyl Acetate  
Concen: 9.565 ppbv  
RT: 2.852 min Scan# 80  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

Tgt Ion: 43 Resp: 60997  
Ion Ratio Lower Upper  
43 100  
45 9.9 8.2 12.2  
61 8.8 7.3 10.9  
70 8.4 7.2 10.8

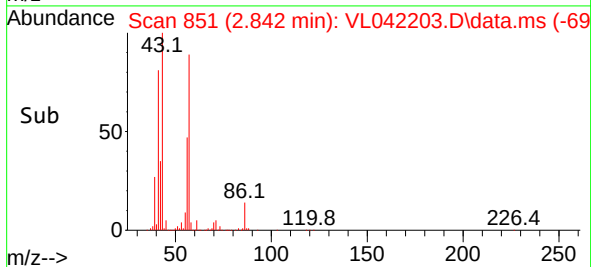
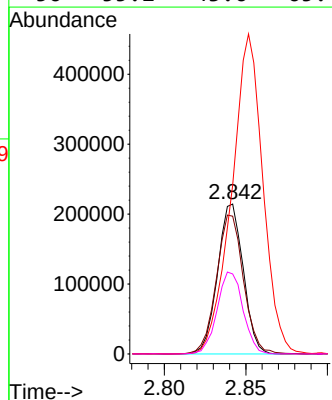
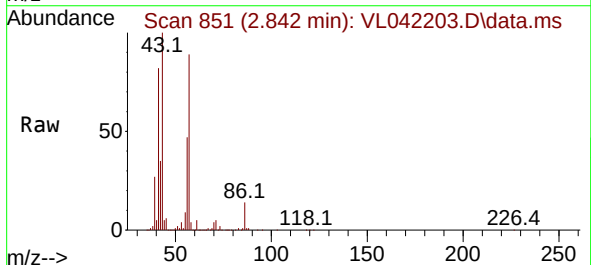
Manual Integrations  
APPROVED

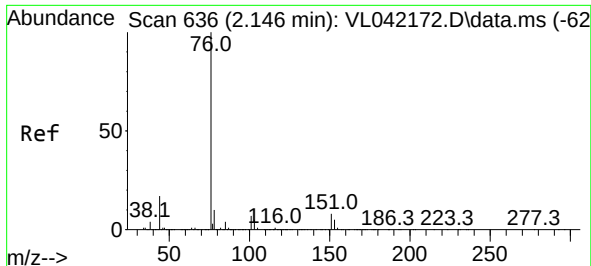
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#26  
Hexane  
Concen: 9.511 ppbv  
RT: 2.842 min Scan# 851  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

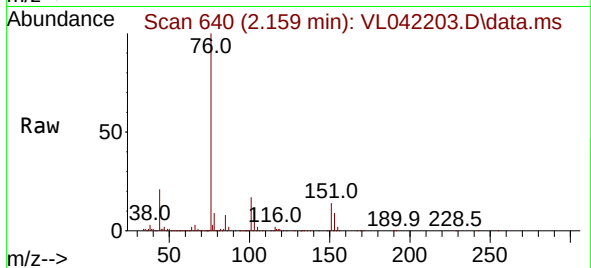
Tgt Ion: 57 Resp: 234267  
Ion Ratio Lower Upper  
57 100  
41 97.6 76.6 114.8  
43 261.1 207.8 311.8  
56 55.2 43.6 65.4





#27  
Carbon Disulfide  
Concen: 9.310 ppbv  
RT: 2.159 min Scan# 640  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

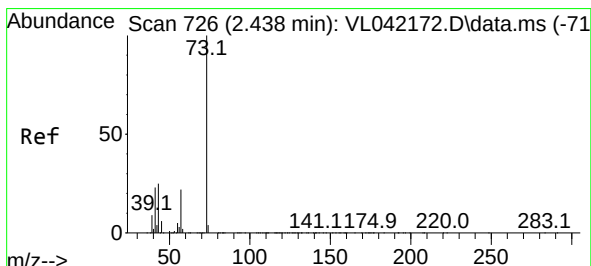
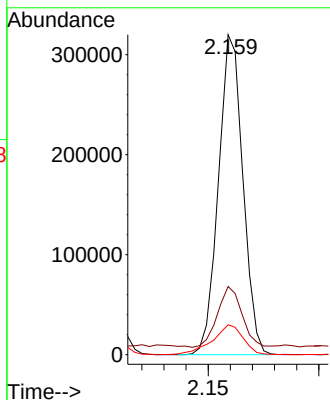
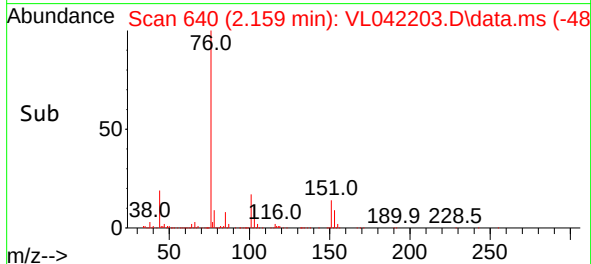
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



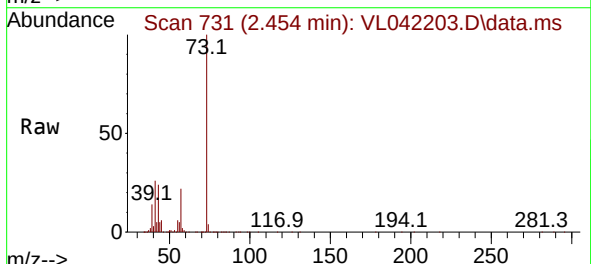
Tgt Ion: 76 Resp: 245908  
Ion Ratio Lower Upper  
76 100  
44 19.4 14.7 22.1  
78 11.7 9.3 13.9

Manual Integrations  
APPROVED

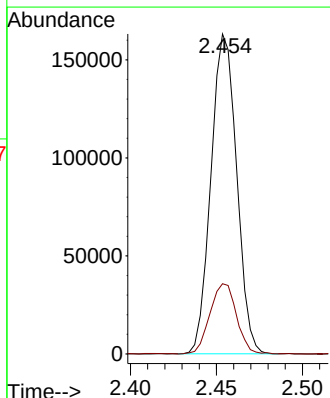
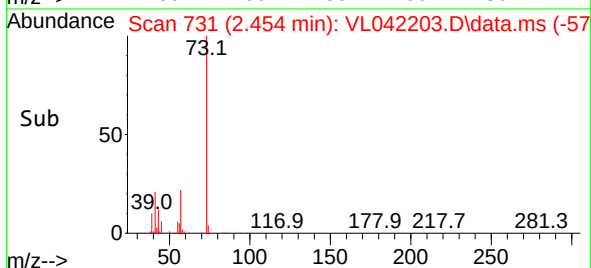
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

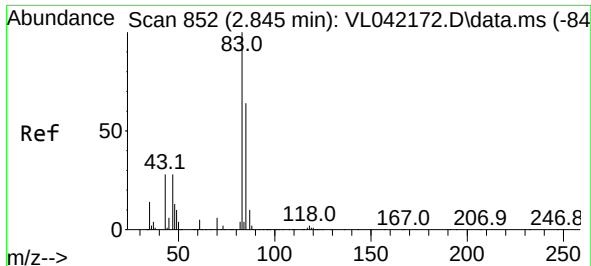


#28  
Methyl tert-Butyl Ether  
Concen: 11.046 ppbv  
RT: 2.454 min Scan# 731  
Delta R.T. 0.016 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



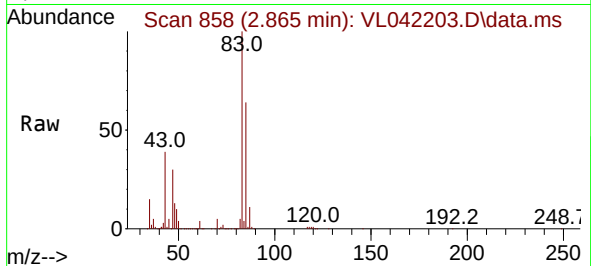
Tgt Ion: 73 Resp: 169404  
Ion Ratio Lower Upper  
73 100  
57 22.8 20.5 30.7





#29  
Chloroform  
Concen: 10.616 ppbv  
RT: 2.865 min Scan# 858  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

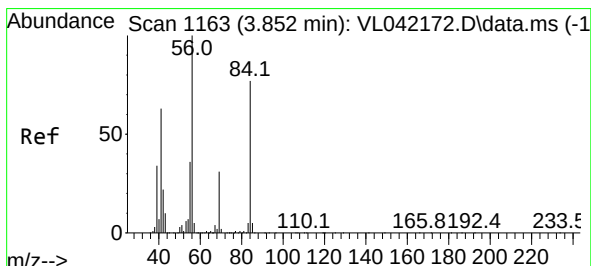
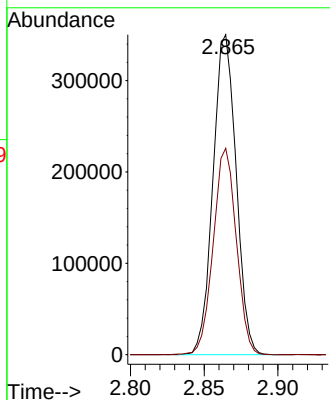
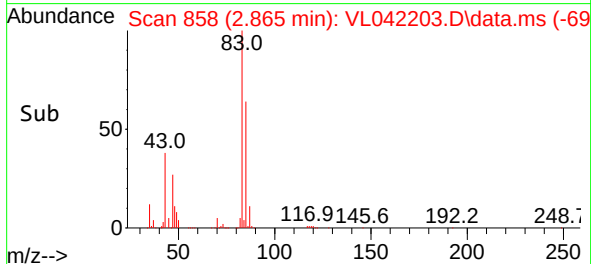
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



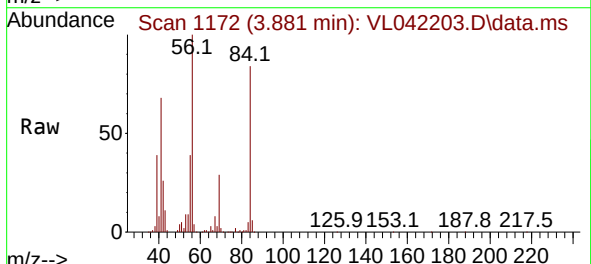
Tgt Ion: 83 Resp: 382690  
Ion Ratio Lower Upper  
83 100  
85 64.5 51.4 77.2

Manual Integrations  
APPROVED

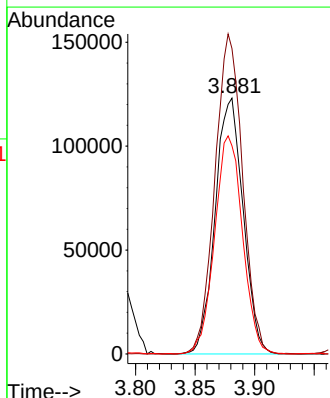
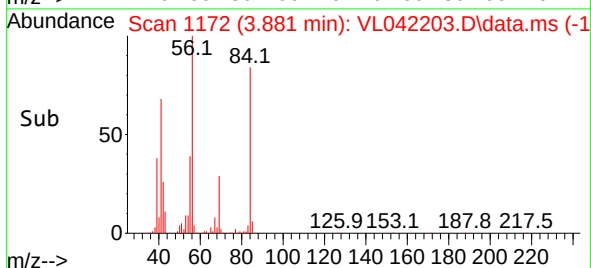
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

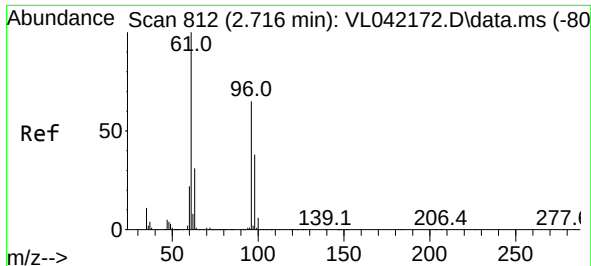


#30  
Cyclohexane  
Concen: 9.393 ppbv  
RT: 3.881 min Scan# 1172  
Delta R.T. 0.029 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



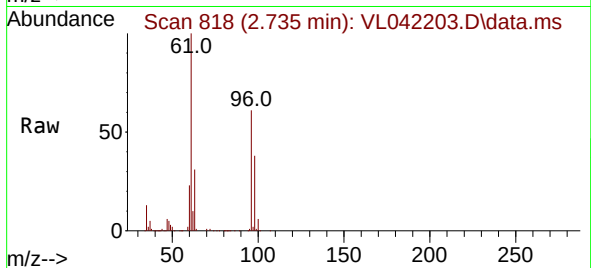
Tgt Ion: 84 Resp: 200894  
Ion Ratio Lower Upper  
84 100  
56 123.7 102.8 154.2  
41 85.2 66.5 99.7





#31  
cis-1,2-Dichloroethene  
Concen: 9.981 ppbv  
RT: 2.735 min Scan# 81  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

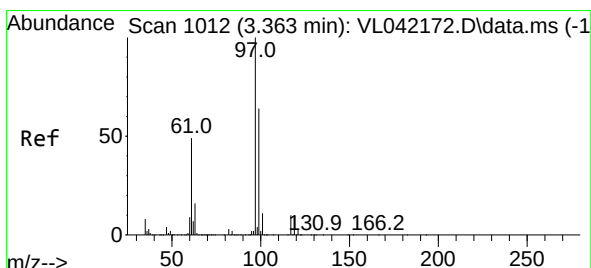
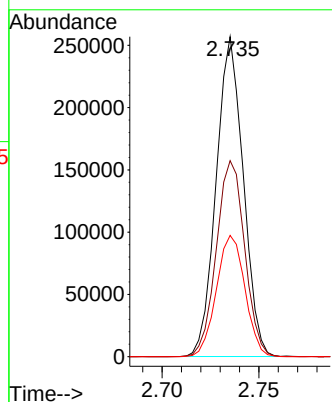
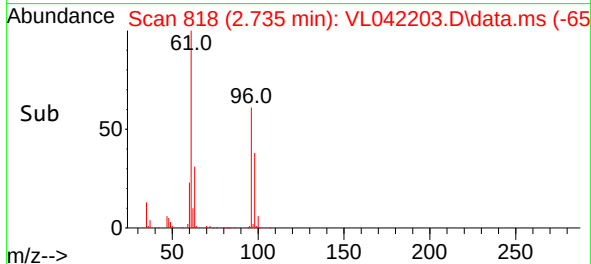
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



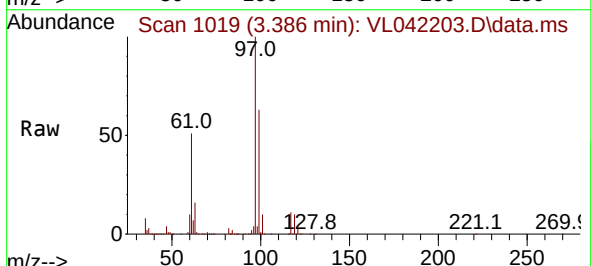
Tgt Ion: 61 Resp: 24959  
Ion Ratio Lower Upper  
61 100  
96 61.3 51.8 77.8  
98 38.0 30.6 46.0

Manual Integrations  
APPROVED

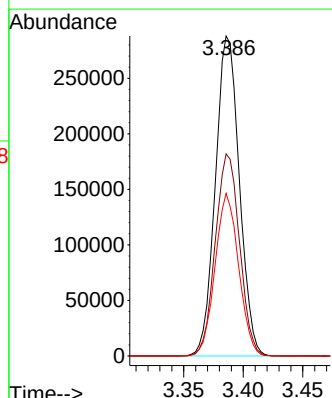
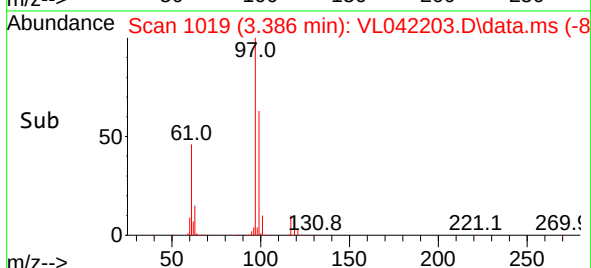
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



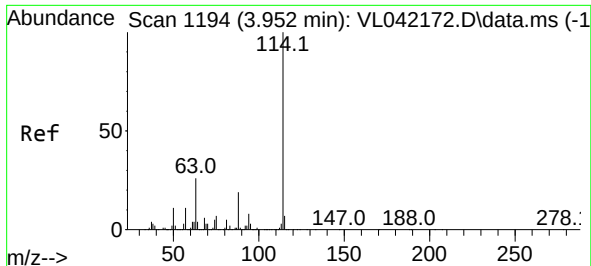
#32  
1,1,1-Trichloroethane  
Concen: 9.753 ppbv  
RT: 3.386 min Scan# 1019  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



Tgt Ion: 97 Resp: 402506  
Ion Ratio Lower Upper  
97 100  
99 63.8 51.5 77.3  
61 50.0 38.7 58.1

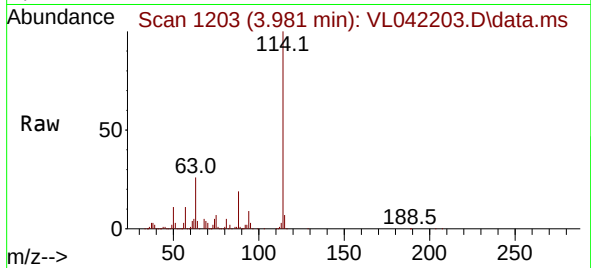






#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.981 min Scan# 1194  
Delta R.T. 0.029 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

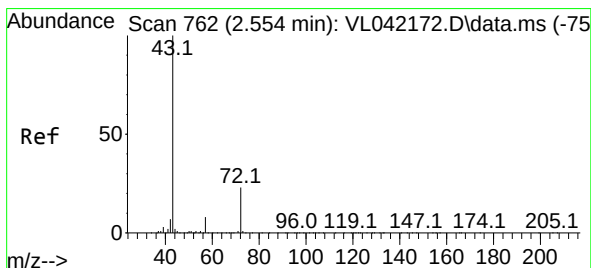
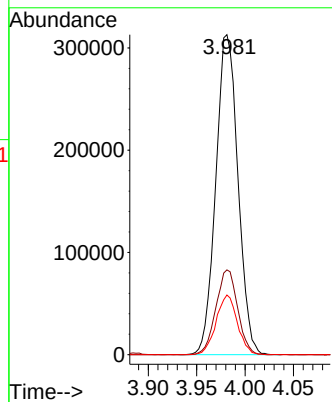
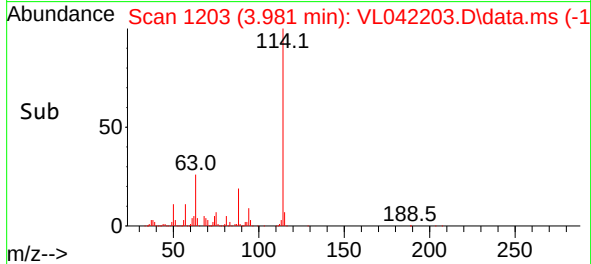
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



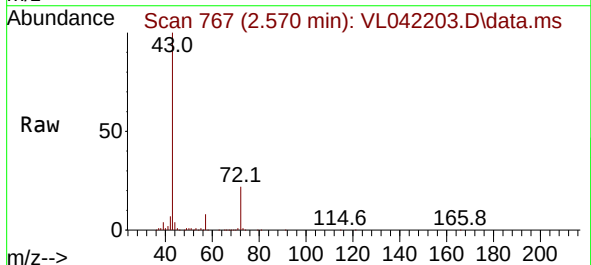
Tgt Ion:114 Resp: 498980  
Ion Ratio Lower Upper  
114 100  
63 26.0 20.7 31.1  
88 17.9 15.0 22.4

Manual Integrations  
APPROVED

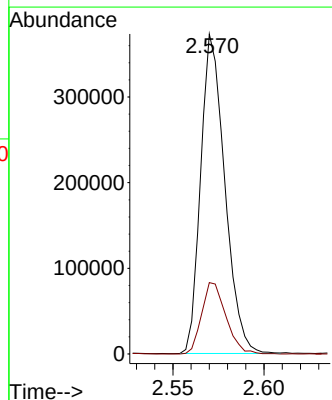
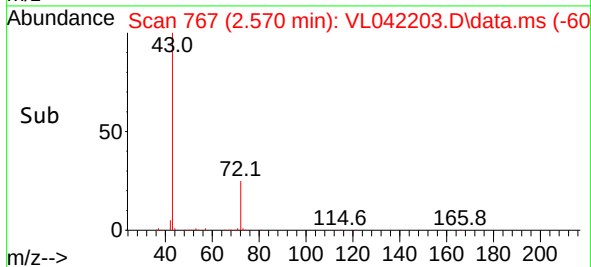
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

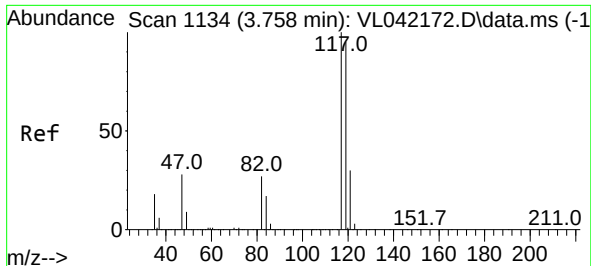


#34  
2-Butanone  
Concen: 9.504 ppbv  
RT: 2.570 min Scan# 767  
Delta R.T. 0.016 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



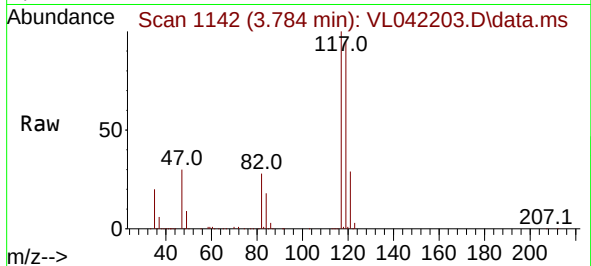
Tgt Ion: 43 Resp: 343896  
Ion Ratio Lower Upper  
43 100  
72 22.6 18.2 27.2





#35  
Carbon Tetrachloride  
Concen: 10.578 ppbv  
RT: 3.784 min Scan# 1134  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

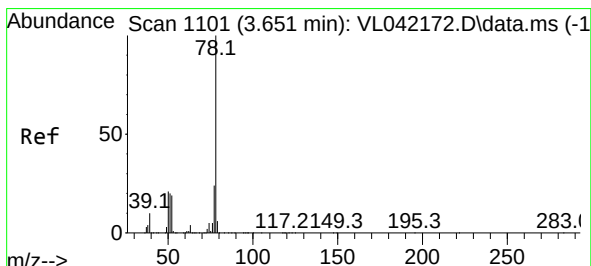
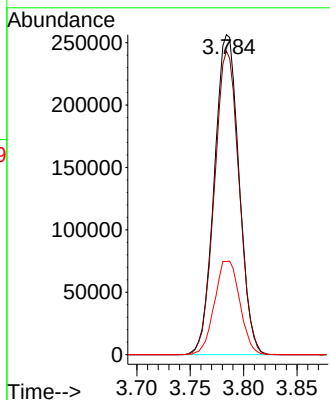
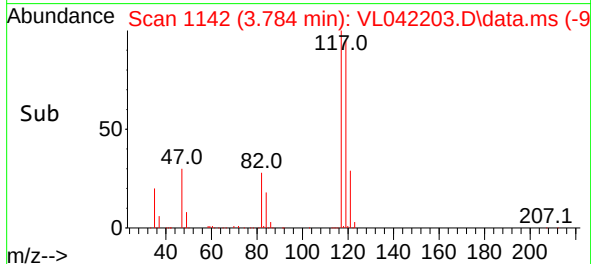
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



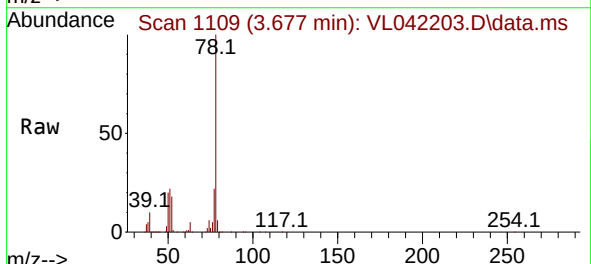
Tgt Ion:117 Resp: 41231  
Ion Ratio Lower Upper  
117 100  
119 94.9 76.2 114.2  
121 29.1 24.2 36.4

Manual Integrations  
APPROVED

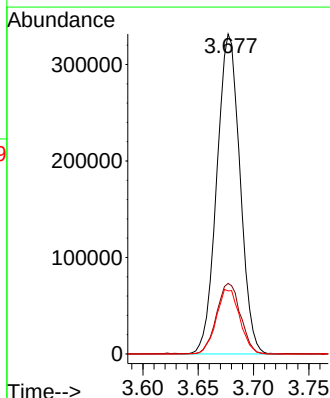
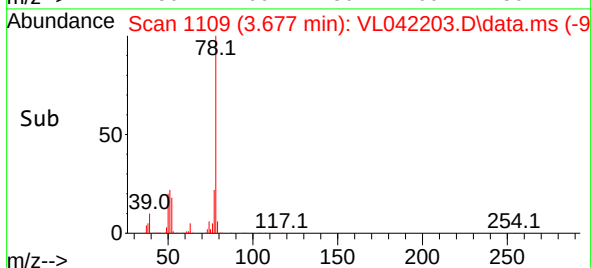
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

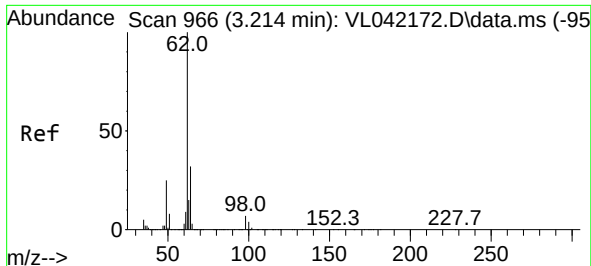


#36  
Benzene  
Concen: 9.754 ppbv  
RT: 3.677 min Scan# 1109  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



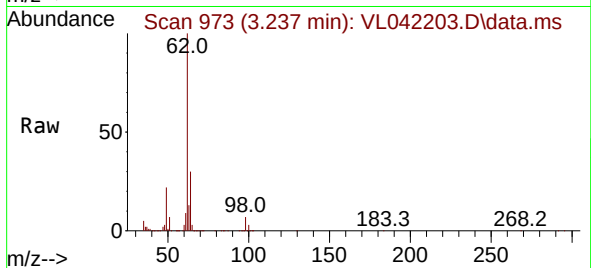
Tgt Ion: 78 Resp: 482499  
Ion Ratio Lower Upper  
78 100  
77 22.0 19.1 28.7  
50 19.7 16.6 24.8





#37  
1,2-Dichloroethane  
Concen: 10.964 ppbv  
RT: 3.237 min Scan# 91  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

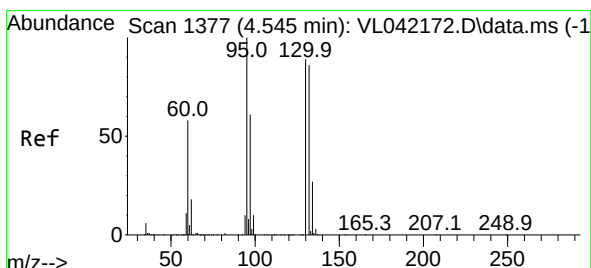
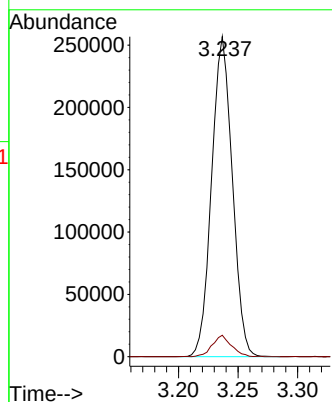
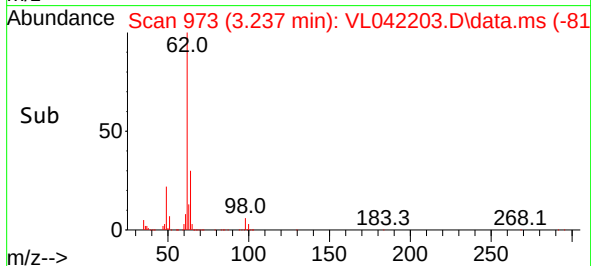
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



Tgt Ion: 62 Resp: 31050  
Ion Ratio Lower Upper  
62 100  
98 6.3 5.4 8.2

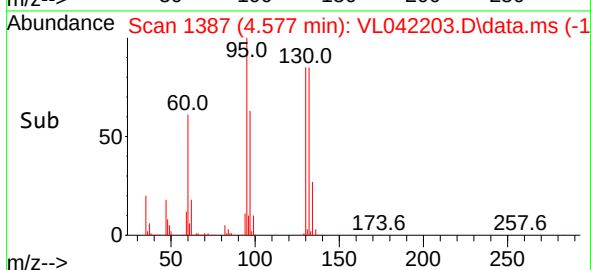
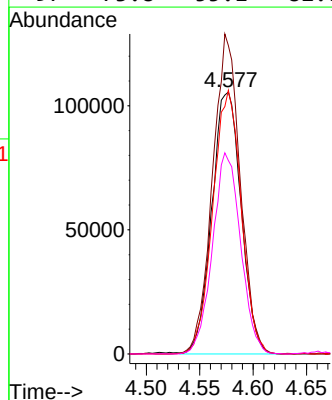
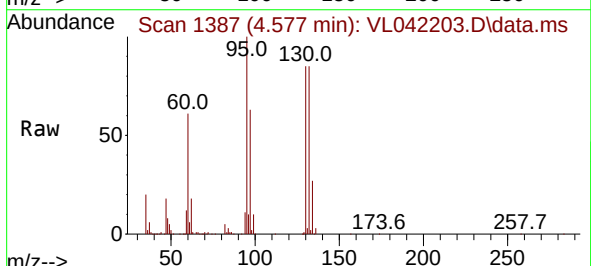
Manual Integrations  
APPROVED

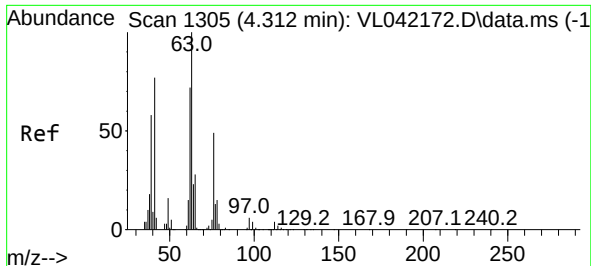
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#38  
Trichloroethene  
Concen: 9.749 ppbv  
RT: 4.577 min Scan# 1387  
Delta R.T. 0.032 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion:130 Resp: 201215  
Ion Ratio Lower Upper  
130 100  
95 117.8 89.8 134.8  
132 100.6 77.4 116.2  
97 73.8 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.665 ppbv

RT: 4.340 min Scan# 1314

Delta R.T. 0.029 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VL0331ABS01

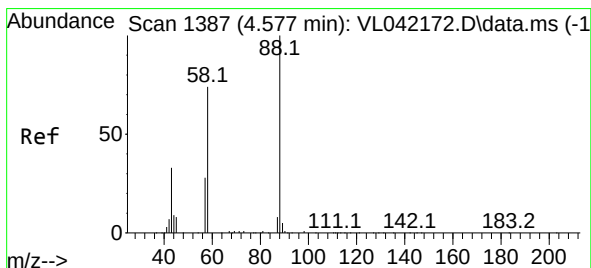
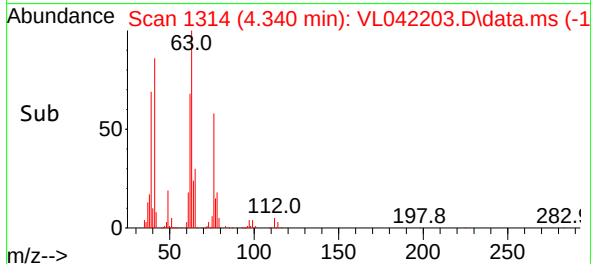
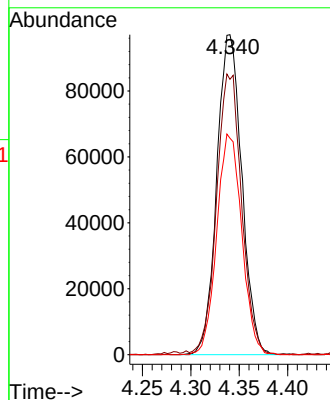
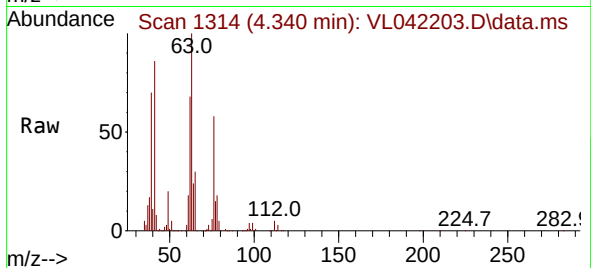
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 174119 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 41       | 85.8  | 61.7  | 92.5   |
| 62       | 67.7  | 57.6  | 86.4   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025

Supervised By :Mahesh Dadoda 04/01/2025



#40

1,4-Dioxane

Concen: 8.872 ppbv

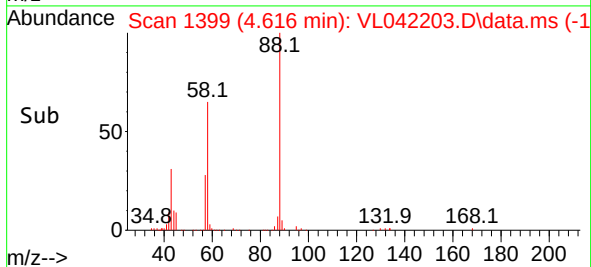
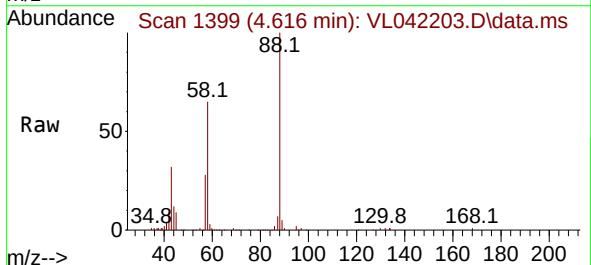
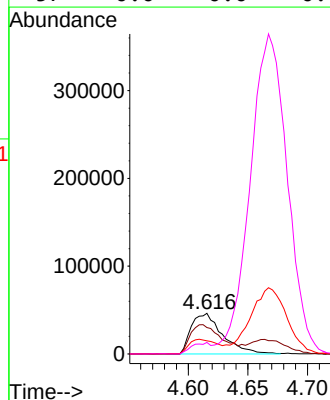
RT: 4.616 min Scan# 1399

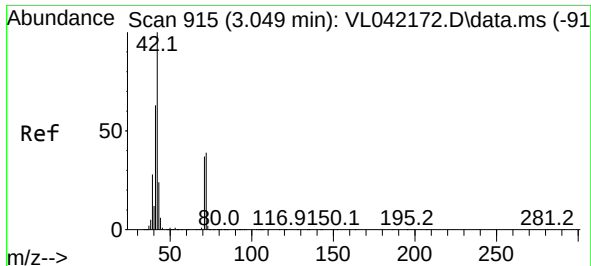
Delta R.T. 0.039 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

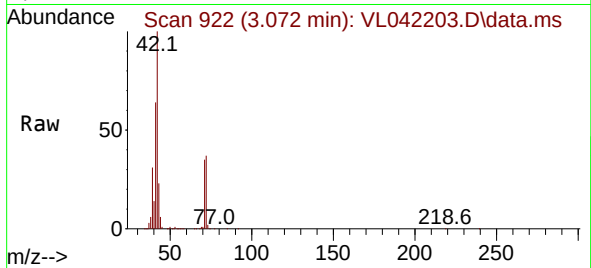
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 84833 |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 71.2  | 62.7  | 94.1  |
| 43       | 34.3  | 23.0  | 34.4  |
| 57       | 0.0   | 0.0   | 0.0   |





#41  
Tetrahydrofuran  
Concen: 9.318 ppbv  
RT: 3.072 min Scan# 915  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

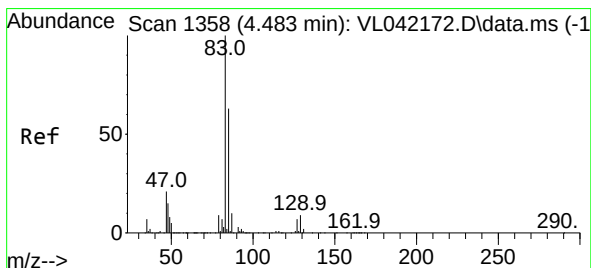
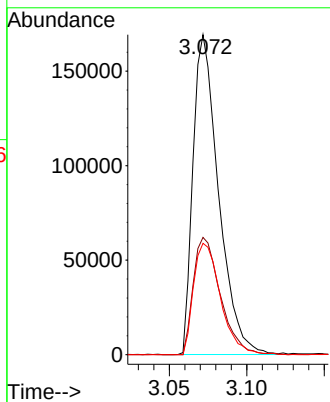
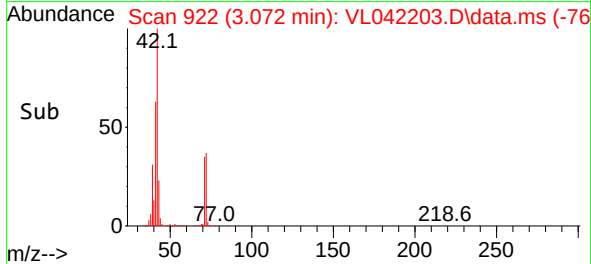
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



Tgt Ion: 42 Resp: 194140  
Ion Ratio Lower Upper  
42 100  
72 38.9 31.4 47.0  
71 36.9 30.2 45.4

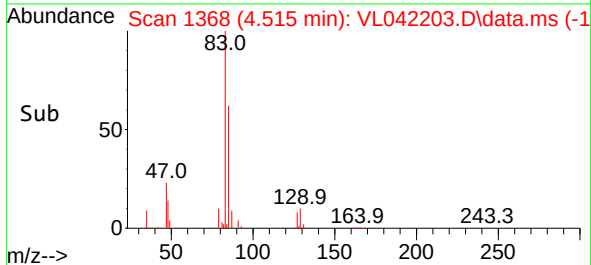
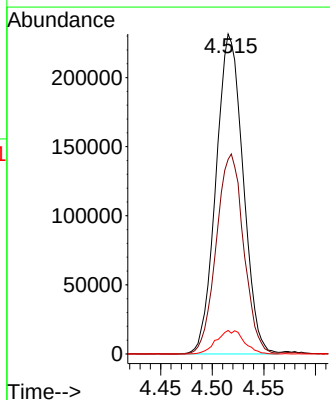
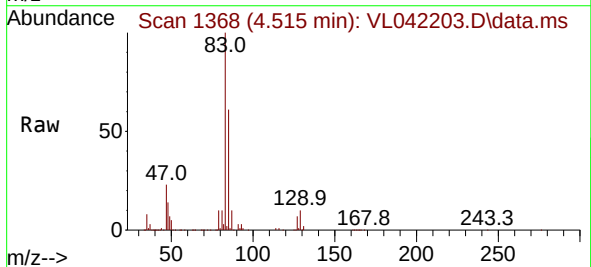
Manual Integrations  
APPROVED

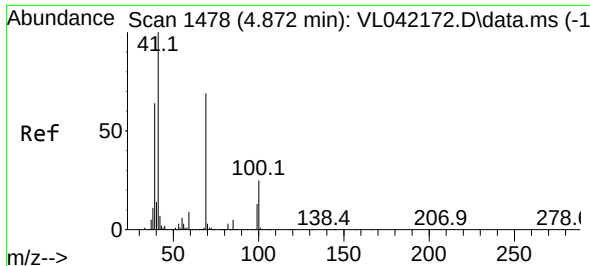
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#42  
Bromodichloromethane  
Concen: 10.831 ppbv  
RT: 4.515 min Scan# 1368  
Delta R.T. 0.032 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

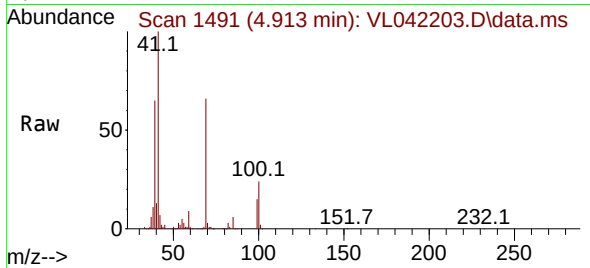
Tgt Ion: 83 Resp: 422881  
Ion Ratio Lower Upper  
83 100  
85 60.8 50.5 75.7  
127 7.4 5.9 8.9





#43  
Methyl Methacrylate  
Concen: 9.163 ppbv  
RT: 4.913 min Scan# 1415  
Delta R.T. 0.042 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

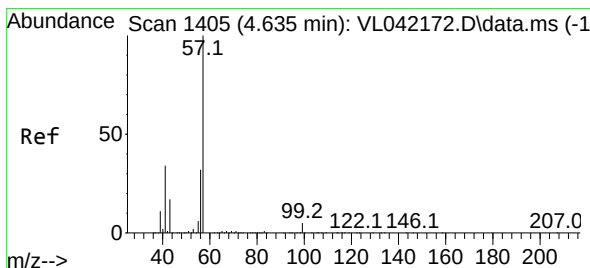
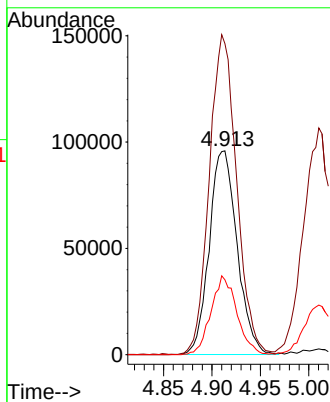
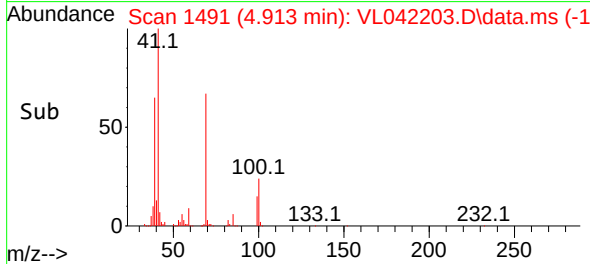
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



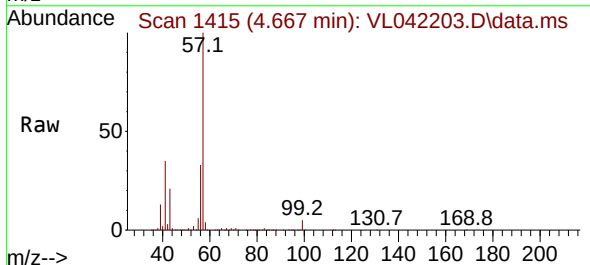
Tgt Ion: 69 Resp: 191894  
Ion Ratio Lower Upper  
69 100  
41 154.2 123.8 185.6  
100 36.0 28.4 42.6

Manual Integrations  
APPROVED

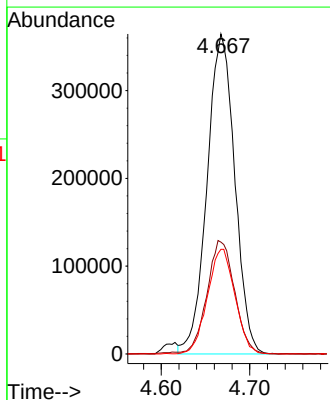
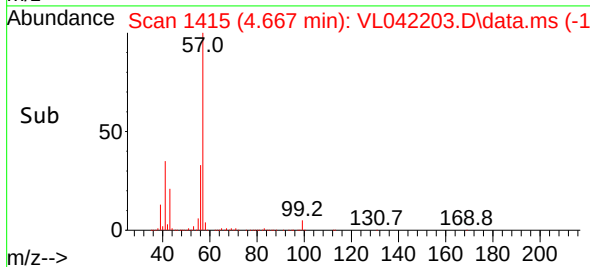
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

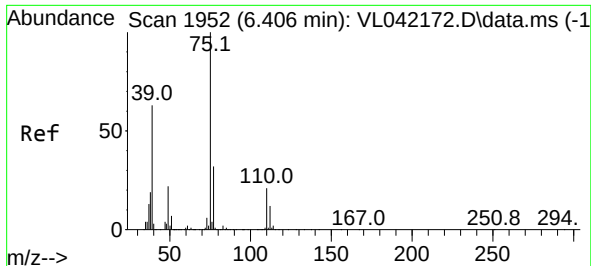


#44  
2,2,4-Trimethylpentane  
Concen: 9.483 ppbv  
RT: 4.667 min Scan# 1415  
Delta R.T. 0.032 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



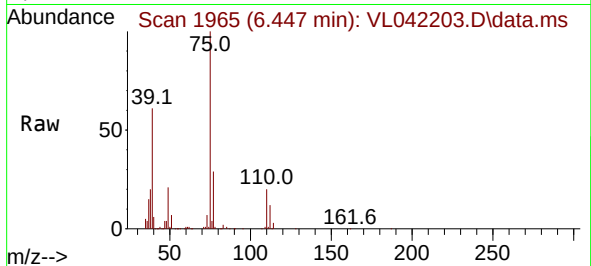
Tgt Ion: 57 Resp: 792762  
Ion Ratio Lower Upper  
57 100  
41 35.5 26.8 40.2  
56 32.6 25.6 38.4





#45  
 t-1,3-Dichloropropene  
 Concen: 9.071 ppbv  
 RT: 6.447 min Scan# 1952  
 Delta R.T. 0.042 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

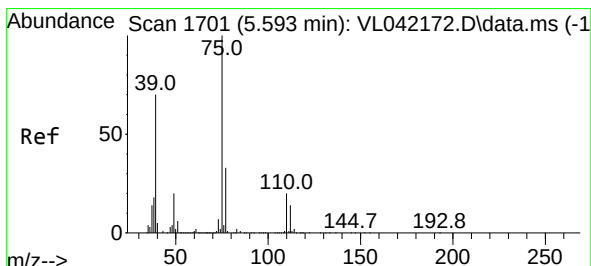
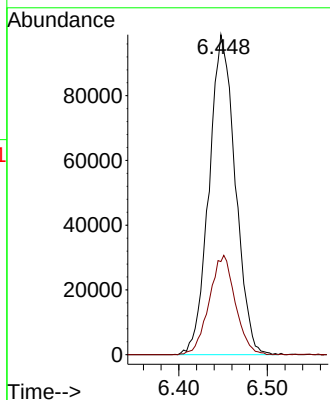
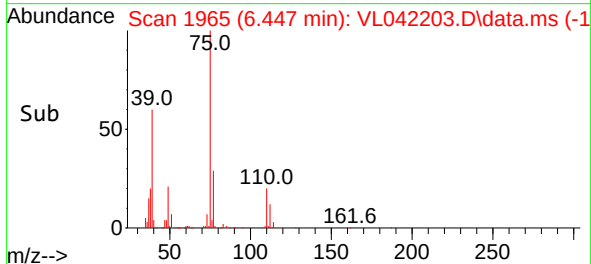
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0331ABS01



Tgt Ion: 75 Resp: 203792  
 Ion Ratio Lower Upper  
 75 100  
 77 29.1 26.0 39.0

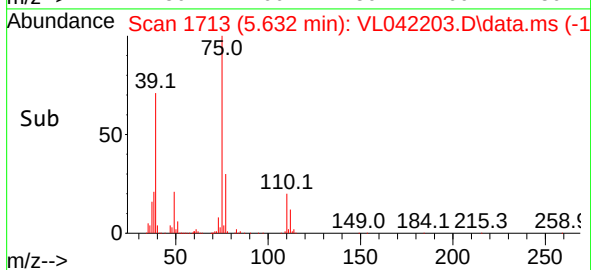
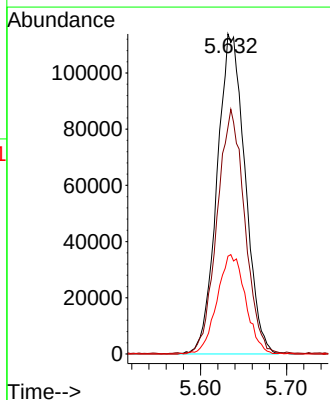
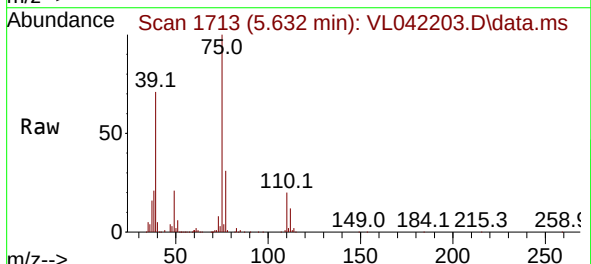
Manual Integrations  
 APPROVED

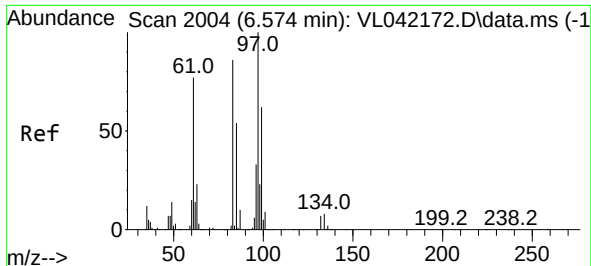
Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025



#46  
 cis-1,3-Dichloropropene  
 Concen: 9.371 ppbv  
 RT: 5.632 min Scan# 1713  
 Delta R.T. 0.039 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

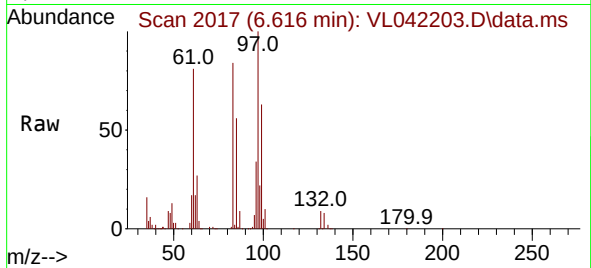
Tgt Ion: 75 Resp: 258084  
 Ion Ratio Lower Upper  
 75 100  
 39 70.4 55.8 83.6  
 77 30.5 26.0 39.0





#47  
1,1,2-Trichloroethane  
Concen: 10.197 ppbv  
RT: 6.616 min Scan# 2004  
Delta R.T. 0.042 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

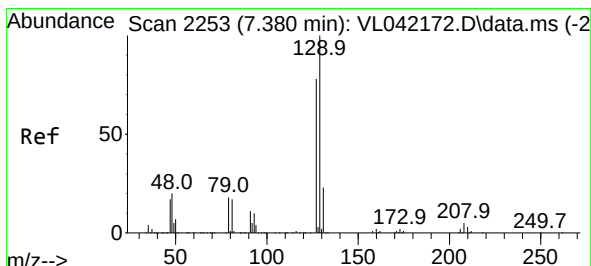
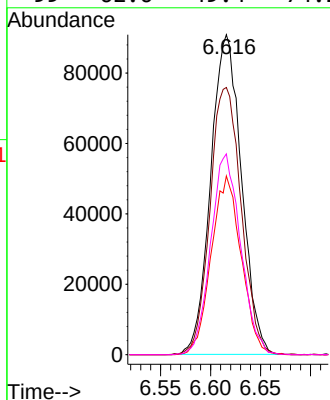
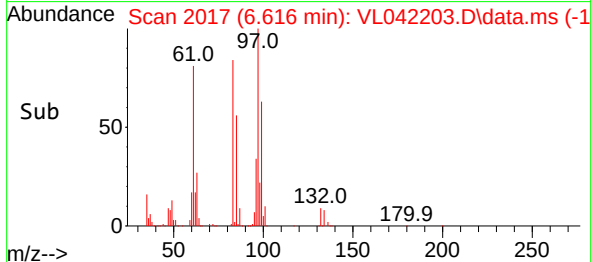
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 83.4  | 69.2  | 103.8 |
| 85      | 55.8  | 43.1  | 64.7  |
| 99      | 62.6  | 49.4  | 74.2  |

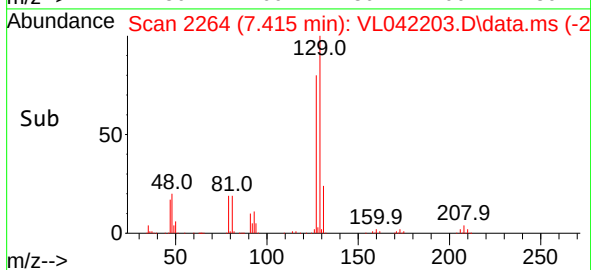
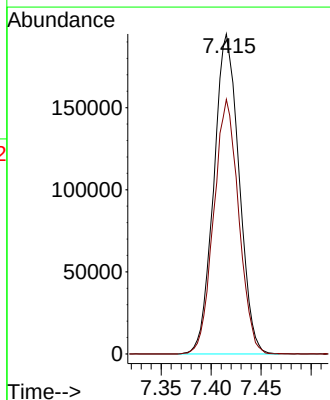
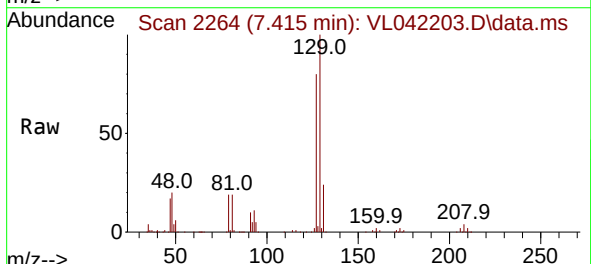
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

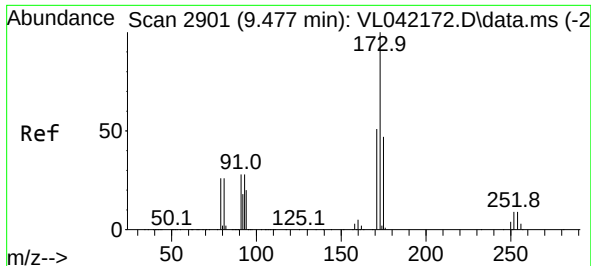


#48  
Dibromochloromethane  
Concen: 10.604 ppbv  
RT: 7.415 min Scan# 2264  
Delta R.T. 0.035 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 78.7  | 39.1  | 117.2 |

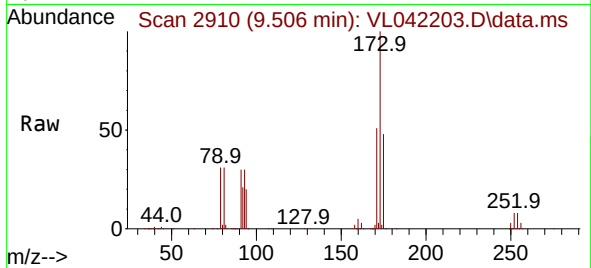






#49  
Bromoform  
Concen: 10.296 ppbv  
RT: 9.506 min Scan# 2901  
Delta R.T. 0.029 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

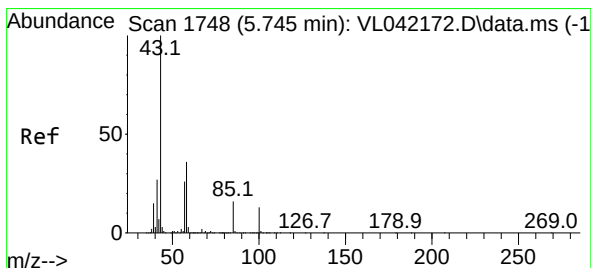
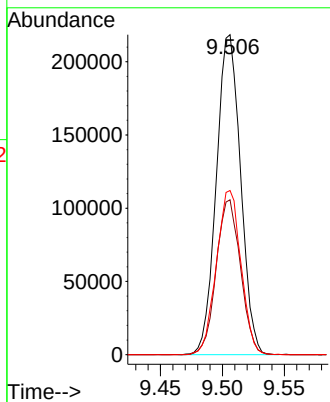
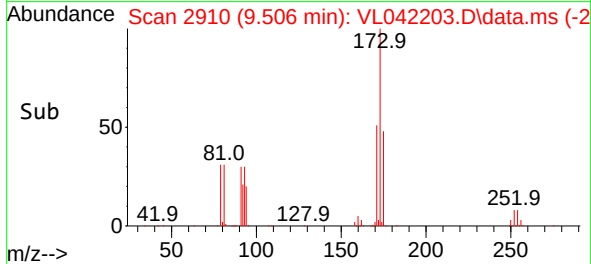
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



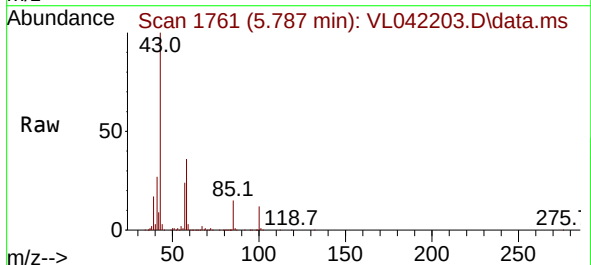
Tgt Ion:173 Resp: 298349  
Ion Ratio Lower Upper  
173 100  
175 48.6 38.6 57.8  
171 52.0 41.8 62.6

Manual Integrations  
APPROVED

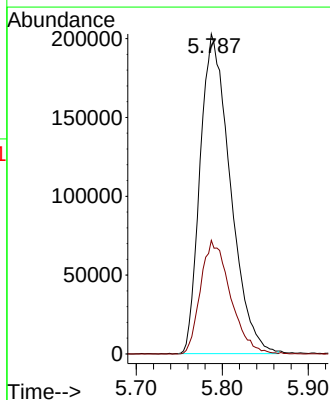
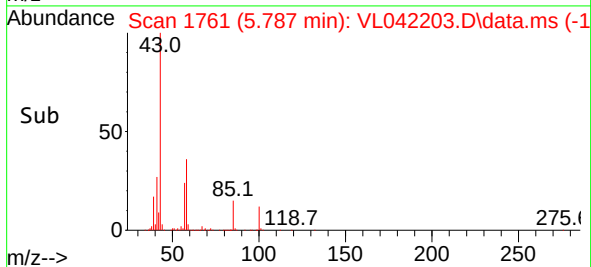
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

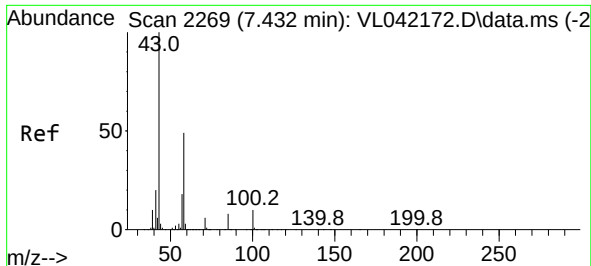


#50  
4-Methyl-2-Pentanone  
Concen: 8.603 ppbv  
RT: 5.787 min Scan# 1761  
Delta R.T. 0.042 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



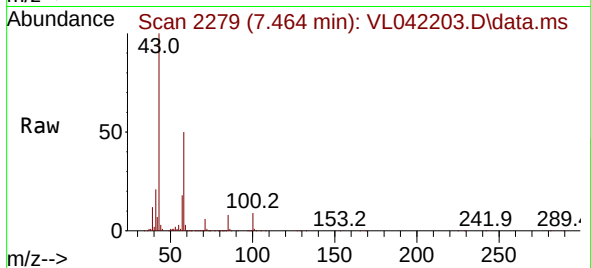
Tgt Ion: 43 Resp: 493320  
Ion Ratio Lower Upper  
43 100  
58 35.2 29.0 43.6





#51  
2-Hexanone  
Concen: 8.613 ppbv  
RT: 7.464 min Scan# 21  
Delta R.T. 0.032 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

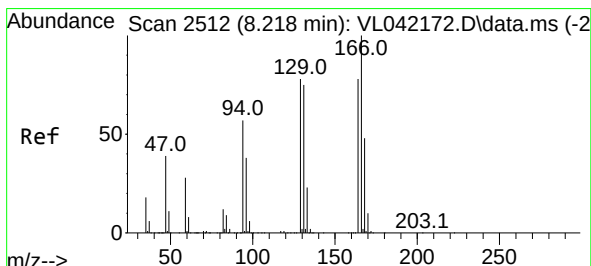
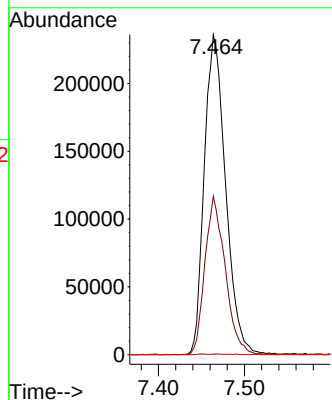
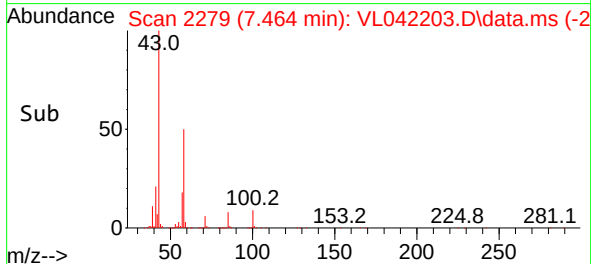
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



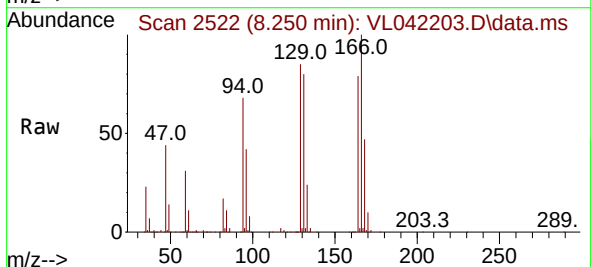
Tgt Ion: 43 Resp: 405558  
Ion Ratio Lower Upper  
43 100  
58 47.4 39.7 59.5  
98 0.1 0.1 0.1

Manual Integrations  
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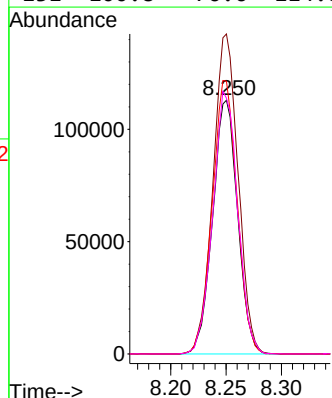
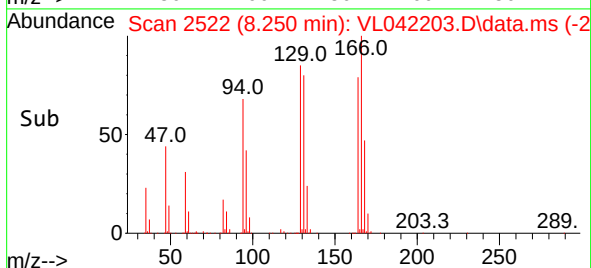
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

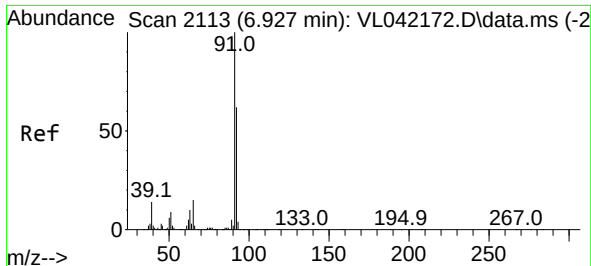


#52  
Tetrachloroethene  
Concen: 9.012 ppbv  
RT: 8.250 min Scan# 2522  
Delta R.T. 0.032 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



Tgt Ion:164 Resp: 176804  
Ion Ratio Lower Upper  
164 100  
166 126.1 102.5 153.7  
129 107.5 79.8 119.8  
131 100.8 76.6 114.8





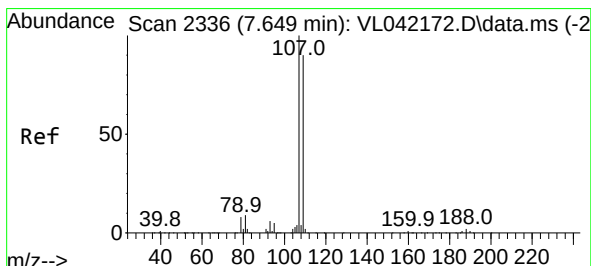
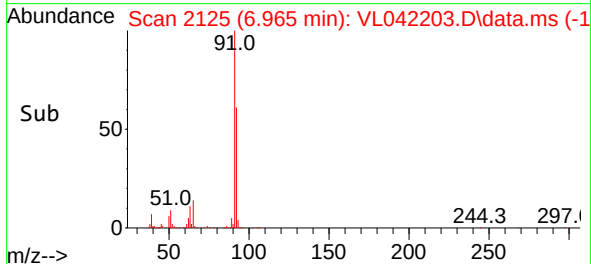
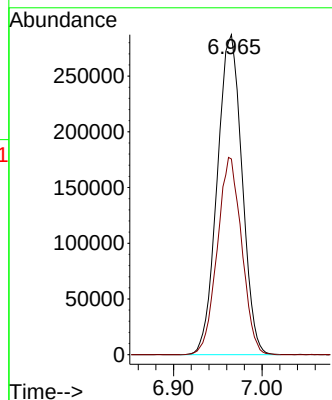
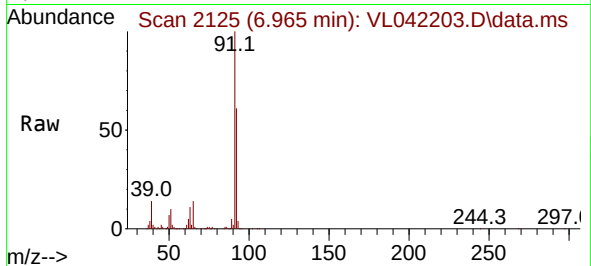
#53  
Toluene  
Concen: 9.555 ppbv  
RT: 6.965 min Scan# 2113  
Delta R.T. 0.039 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

Tgt Ion: 91 Resp: 56030  
Ion Ratio Lower Upper  
91 100  
92 60.5 48.4 72.6

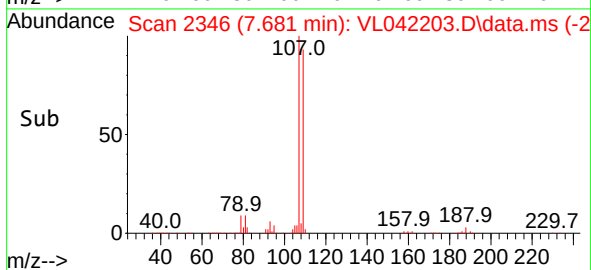
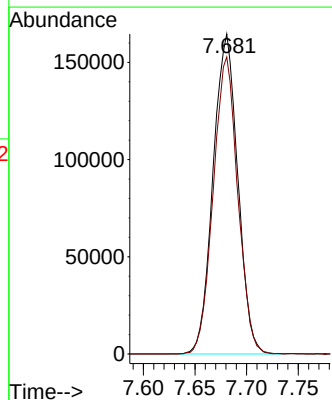
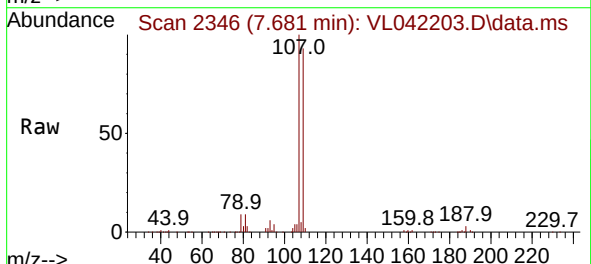
Manual Integrations  
APPROVED

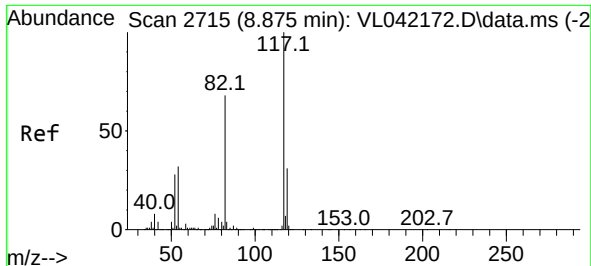
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#54  
1,2-Dibromoethane  
Concen: 10.298 ppbv  
RT: 7.681 min Scan# 2346  
Delta R.T. 0.032 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion:107 Resp: 273381  
Ion Ratio Lower Upper  
107 100  
109 92.7 72.2 108.4





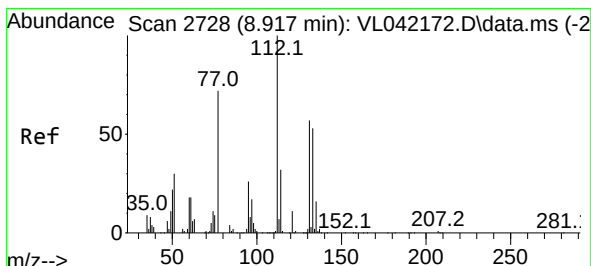
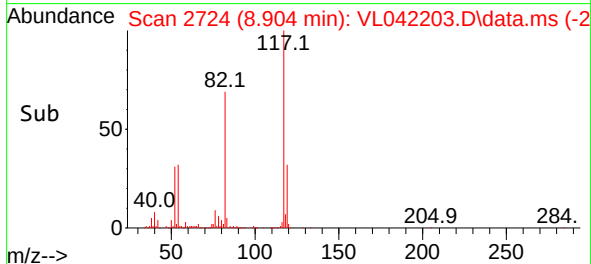
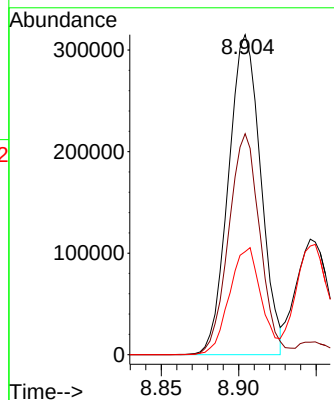
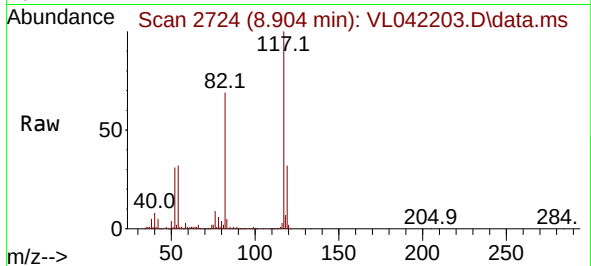
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.904 min Scan# 2715  
Delta R.T. 0.029 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

Tgt Ion:117 Resp: 456400  
Ion Ratio Lower Upper  
117 100  
82 70.9 55.8 83.6  
119 34.4 25.5 38.3

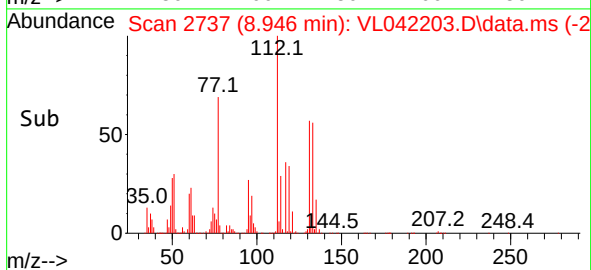
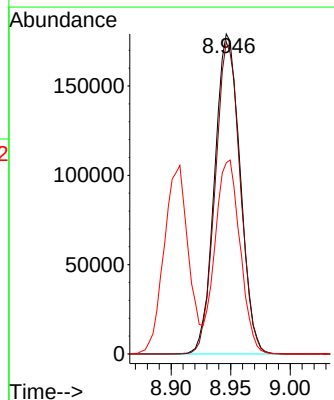
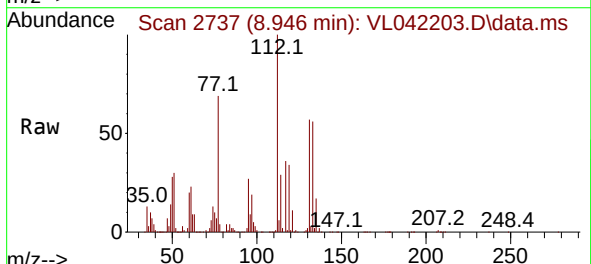
Manual Integrations  
APPROVED

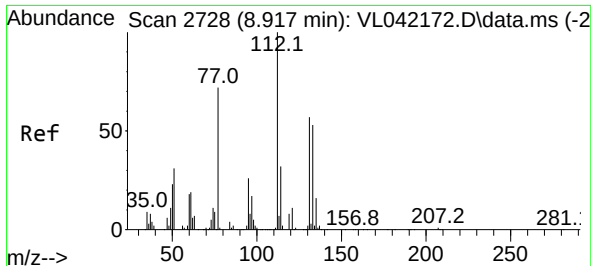
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.607 ppbv  
RT: 8.946 min Scan# 2737  
Delta R.T. 0.029 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

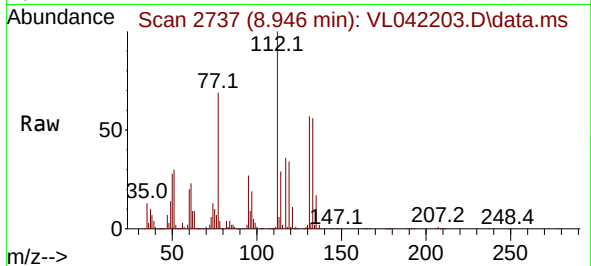
Tgt Ion:131 Resp: 266468  
Ion Ratio Lower Upper  
131 100  
133 95.6 76.6 114.8  
119 57.5 49.8 74.6





#57  
Chlorobenzene  
Concen: 10.368 ppbv  
RT: 8.946 min Scan# 21  
Delta R.T. 0.029 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

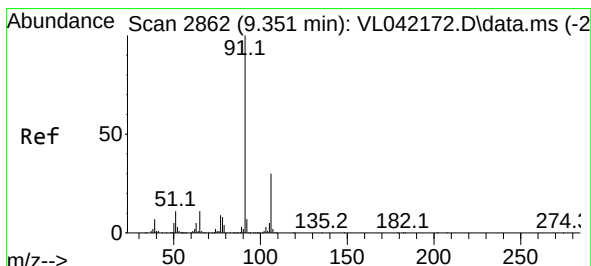
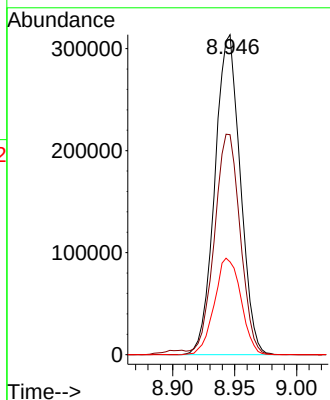
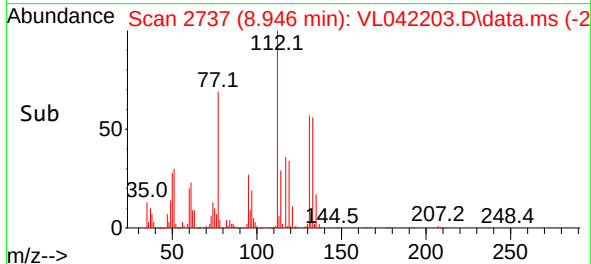
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



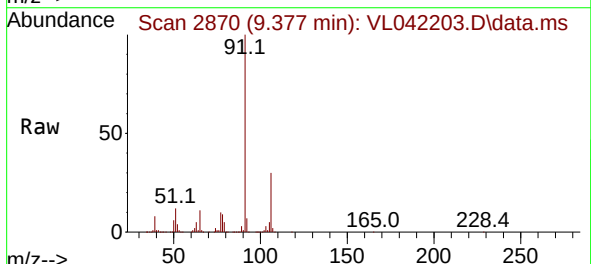
Tgt Ion:112 Resp: 448854  
Ion Ratio Lower Upper  
112 100  
77 68.7 58.2 87.2  
114 29.0 29.1 35.5

Manual Integrations  
APPROVED

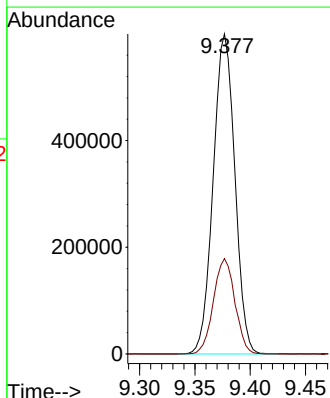
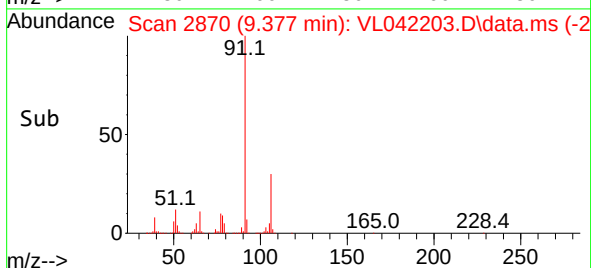
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

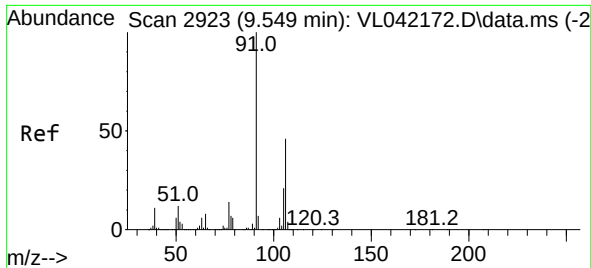


#58  
Ethyl Benzene  
Concen: 10.059 ppbv  
RT: 9.377 min Scan# 2870  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



Tgt Ion: 91 Resp: 815513  
Ion Ratio Lower Upper  
91 100  
106 29.8 24.2 36.2





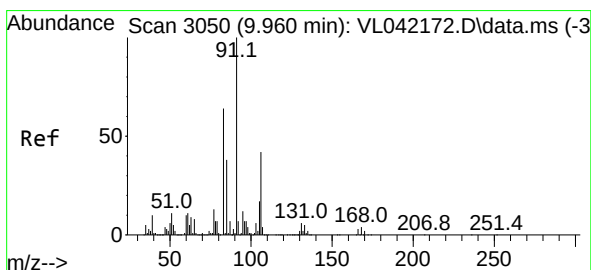
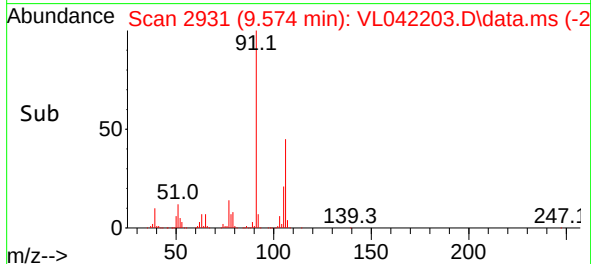
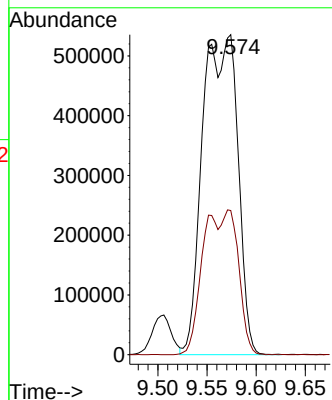
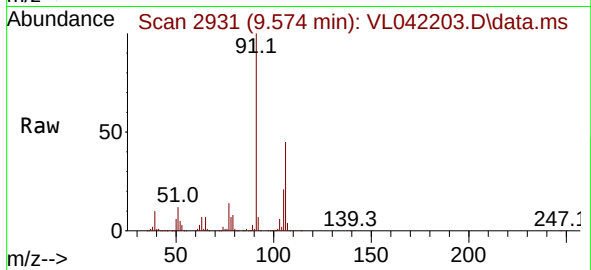
#59  
m/p-Xylene  
Concen: 20.565 ppbv m  
RT: 9.574 min Scan# 2923  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

Tgt Ion: 91 Resp: 133123  
Ion Ratio Lower Upper  
91 100  
106 45.5 36.4 54.6

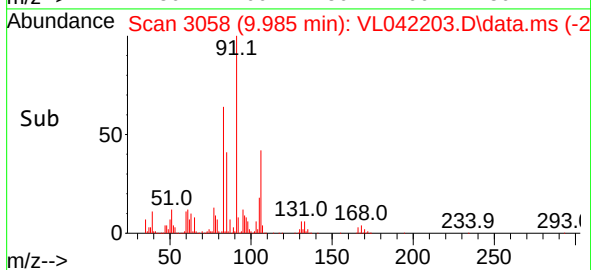
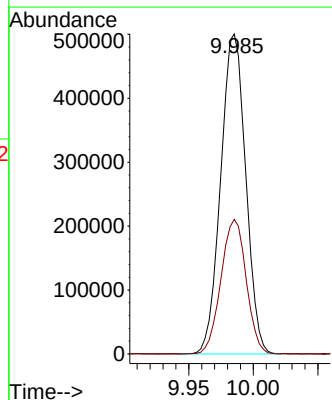
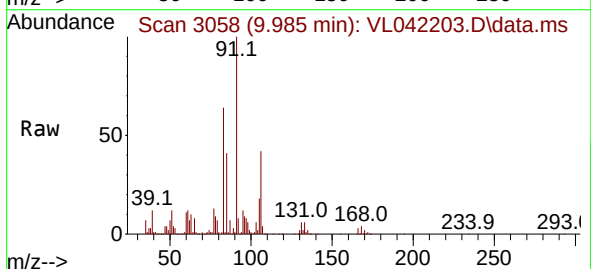
Manual Integrations  
APPROVED

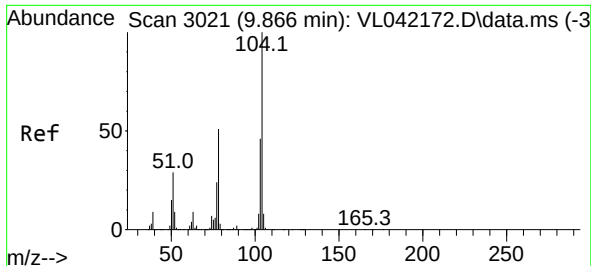
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#60  
o-Xylene  
Concen: 10.379 ppbv  
RT: 9.985 min Scan# 3058  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 91 Resp: 673552  
Ion Ratio Lower Upper  
91 100  
106 42.4 20.8 62.5





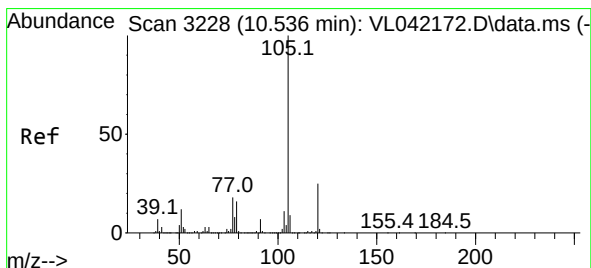
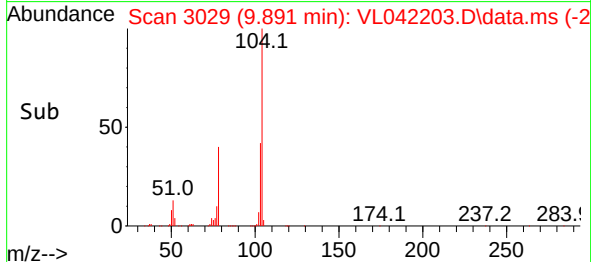
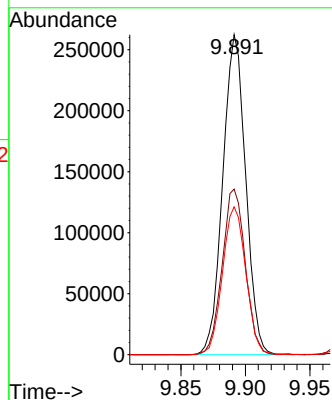
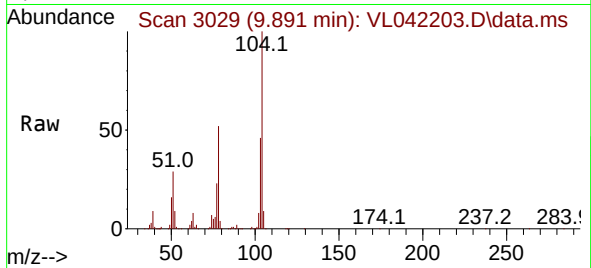
#61  
Styrene  
Concen: 10.060 ppbv  
RT: 9.891 min Scan# 3021  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

Tgt Ion:104 Resp: 32298  
Ion Ratio Lower Upper  
104 100  
78 52.3 41.8 62.6  
103 47.2 37.0 55.4

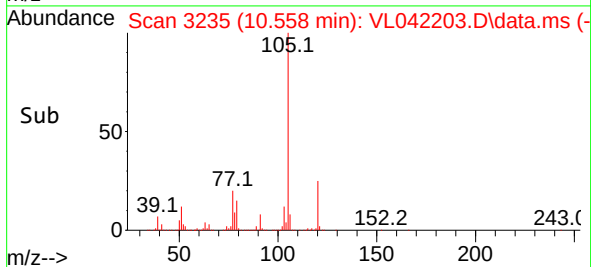
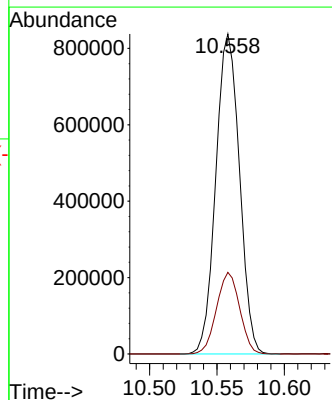
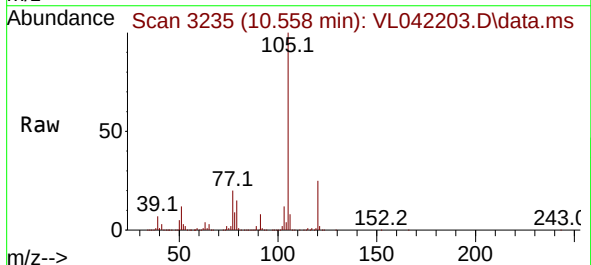
Manual Integrations  
APPROVED

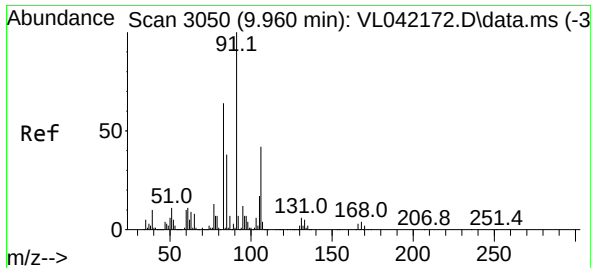
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#62  
Isopropylbenzene  
Concen: 10.524 ppbv  
RT: 10.558 min Scan# 3235  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

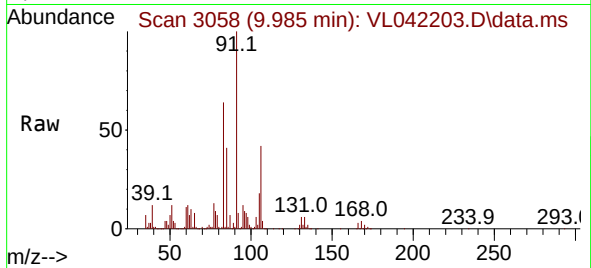
Tgt Ion:105 Resp: 1021273  
Ion Ratio Lower Upper  
105 100  
120 25.0 19.9 29.9





#63  
1,1,2,2-Tetrachloroethane  
Concen: 10.440 ppbv  
RT: 9.985 min Scan# 3050  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

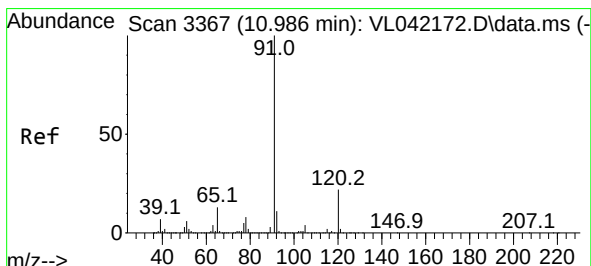
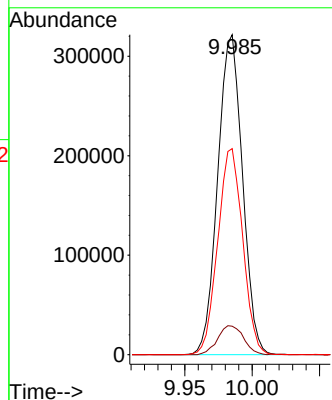
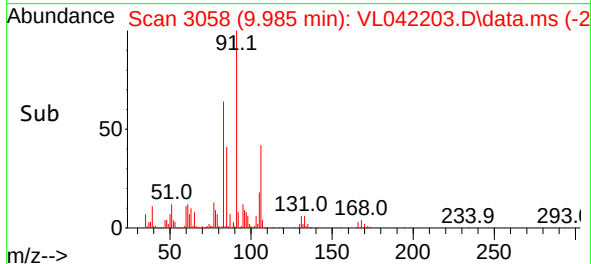
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



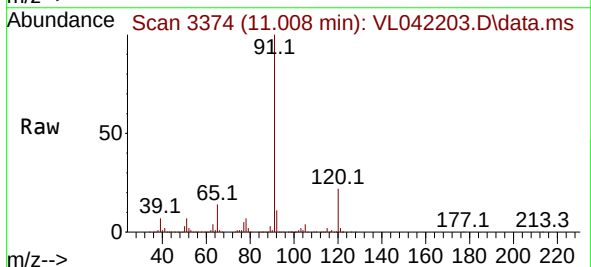
Tgt Ion: 83 Resp: 411620  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.4  
85 64.9 32.5 97.5

Manual Integrations  
APPROVED

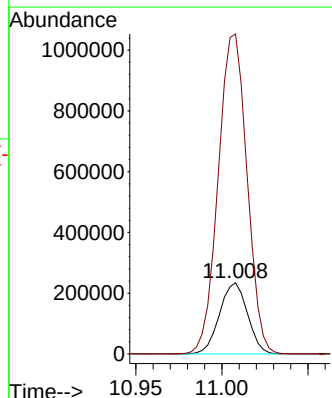
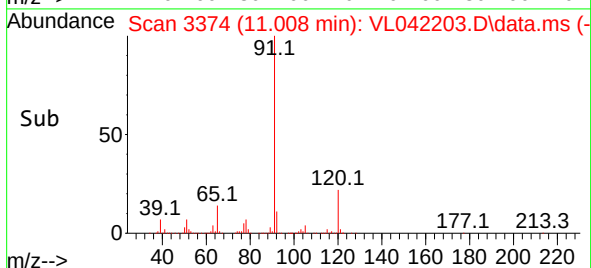
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



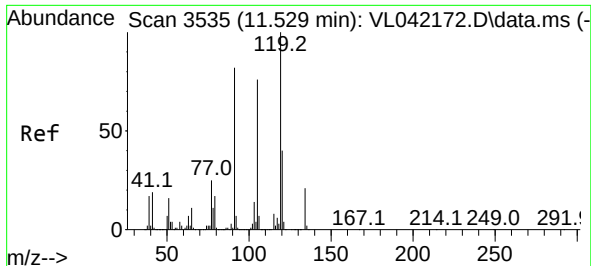
#64  
n-propylbenzene  
Concen: 10.596 ppbv  
RT: 11.008 min Scan# 3374  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



Tgt Ion:120 Resp: 264706  
Ion Ratio Lower Upper  
120 100  
91 463.0 376.9 565.3

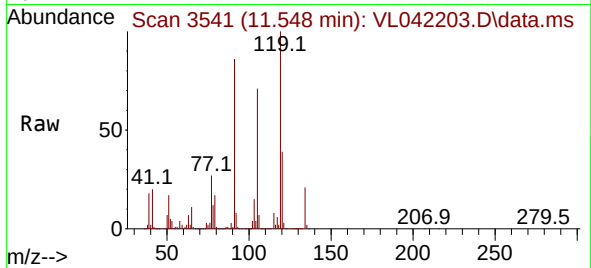






#65  
tert-Butylbenzene  
Concen: 10.173 ppbv  
RT: 11.548 min Scan# 3541  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

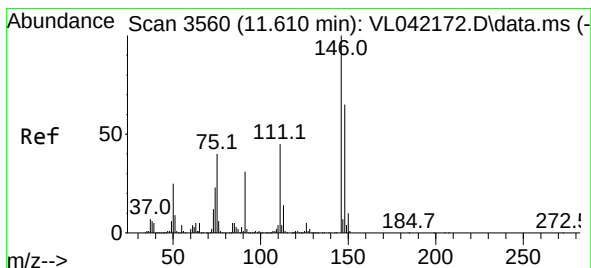
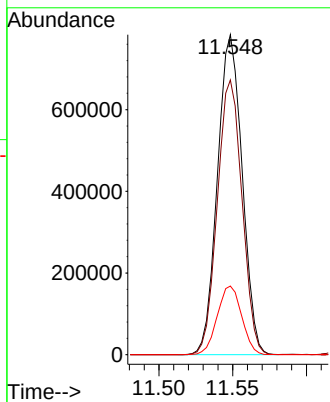
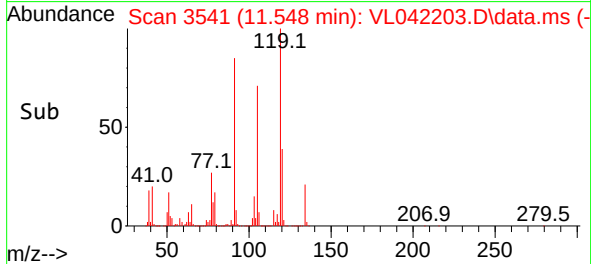
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



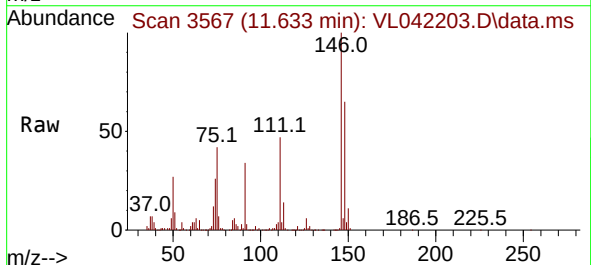
Tgt Ion: 119 Resp: 91302  
Ion Ratio Lower Upper  
119 100  
91 85.8 66.0 99.0  
134 21.2 16.7 25.1

Manual Integrations  
APPROVED

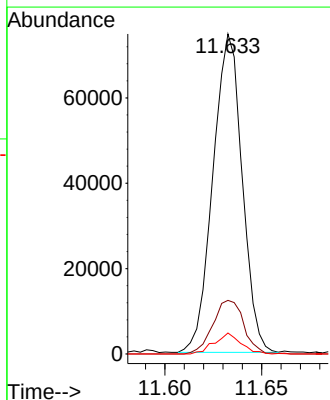
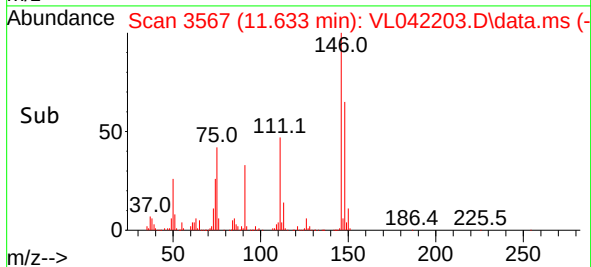
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

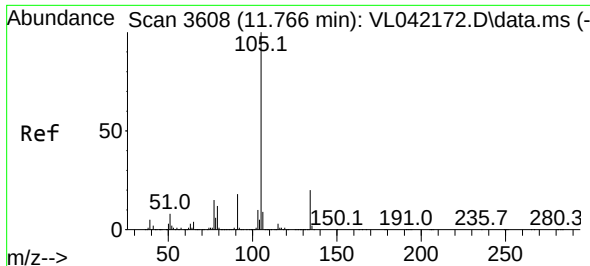


#66  
Benzyl Chloride  
Concen: 8.232 ppbv  
RT: 11.633 min Scan# 3567  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



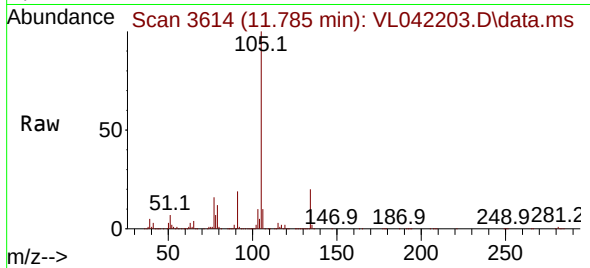
Tgt Ion: 91 Resp: 78394  
Ion Ratio Lower Upper  
91 100  
126 17.8 13.8 20.6  
128 6.0 4.5 6.7





#67  
 sec-Butylbenzene  
 Concen: 10.360 ppbv  
 RT: 11.785 min Scan# 3185  
 Delta R.T. 0.019 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

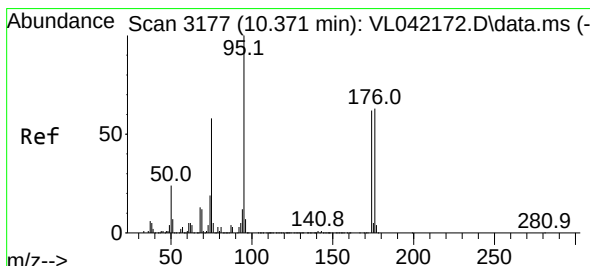
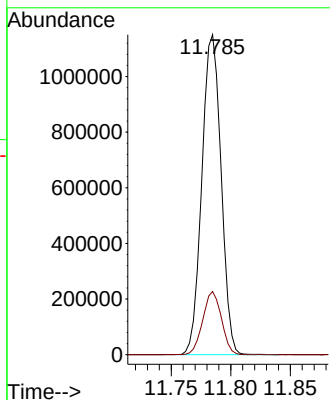
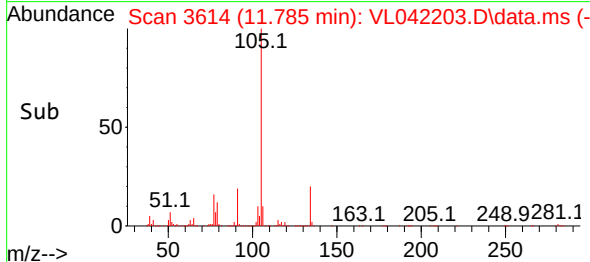
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0331ABS01



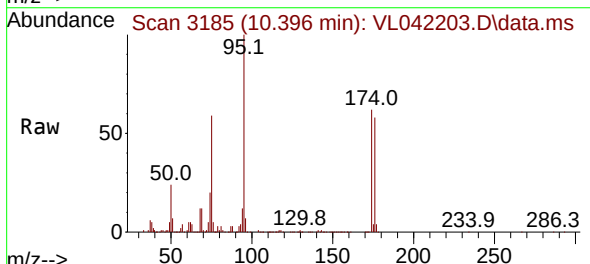
Tgt Ion: 105 Resp: 129245  
 Ion Ratio Lower Upper  
 105 100  
 134 19.3 15.5 23.3

Manual Integrations  
 APPROVED

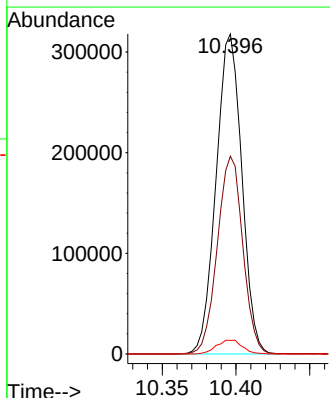
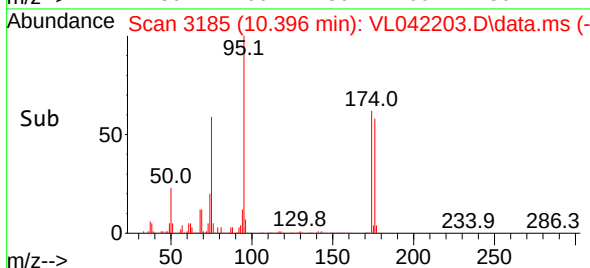
Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025

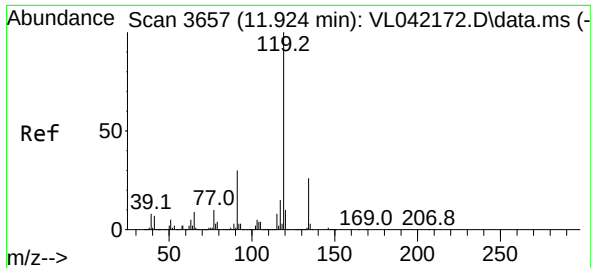


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.281 ppbv  
 RT: 10.396 min Scan# 3185  
 Delta R.T. 0.026 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17



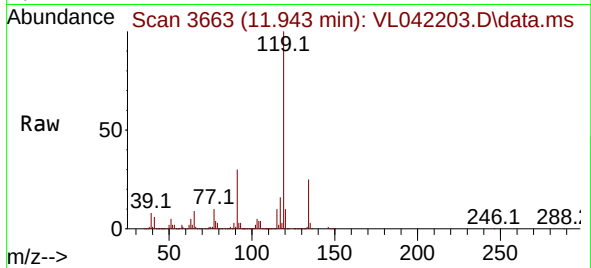
Tgt Ion: 95 Resp: 385330  
 Ion Ratio Lower Upper  
 95 100  
 174 61.2 50.6 76.0  
 175 4.4 3.8 5.6





#69  
p-Isopropyltoluene  
Concen: 10.362 ppbv  
RT: 11.943 min Scan# 30  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

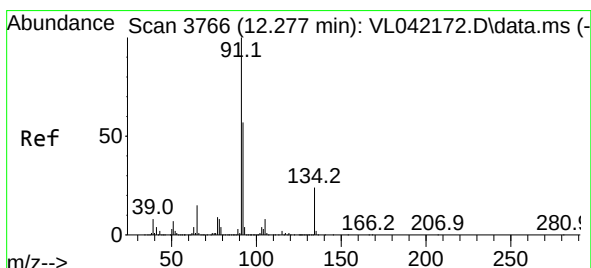
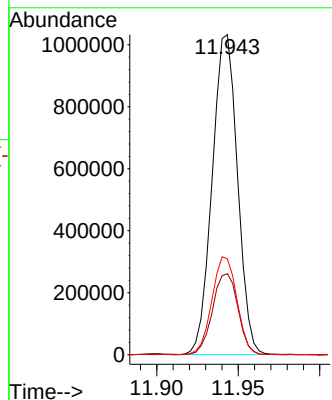
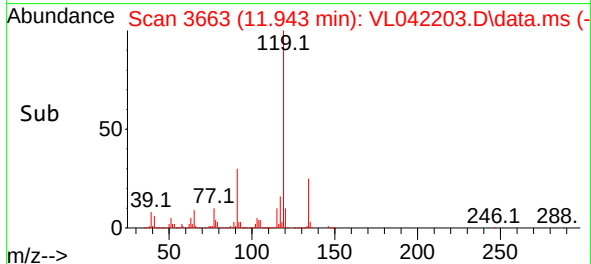
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



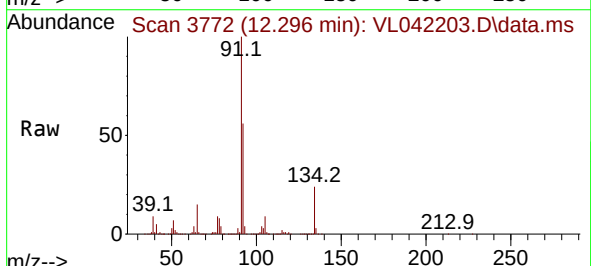
Tgt Ion: 119 Resp: 111308  
Ion Ratio Lower Upper  
119 100  
134 25.6 20.4 30.6  
91 30.4 23.7 35.5

Manual Integrations  
APPROVED

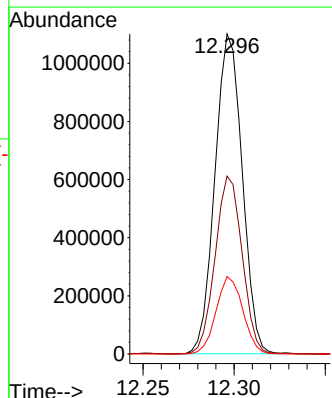
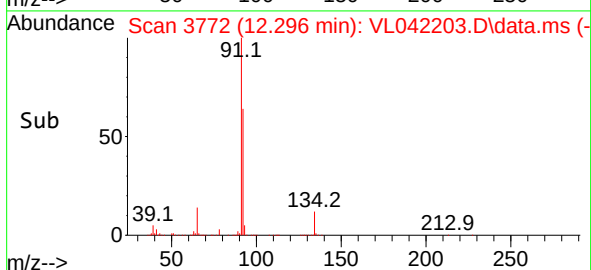
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

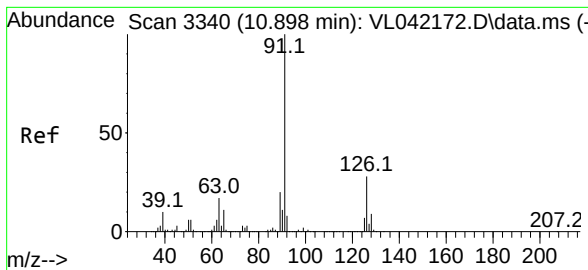


#70  
n-Butylbenzene  
Concen: 10.422 ppbv  
RT: 12.296 min Scan# 3772  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



Tgt Ion: 91 Resp: 1144962  
Ion Ratio Lower Upper  
91 100  
92 55.3 44.9 67.3  
134 23.7 19.2 28.8





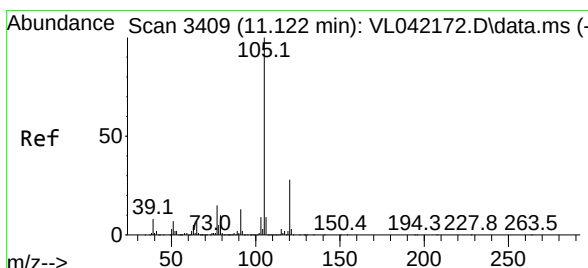
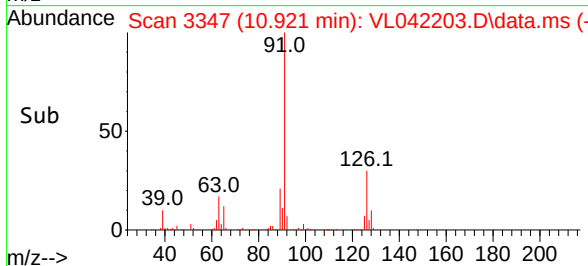
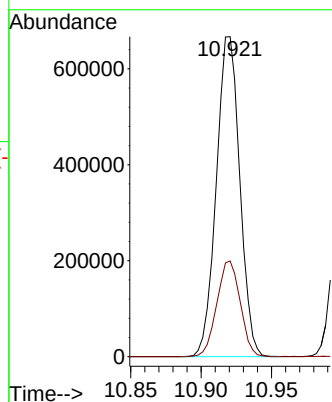
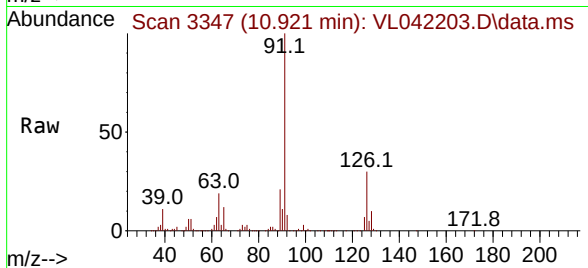
#71  
2-Chlorotoluene  
Concen: 10.295 ppbv  
RT: 10.921 min Scan# 31  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

Tgt Ion: 91 Resp: 775424  
Ion Ratio Lower Upper  
91 100  
126 29.7 11.6 46.4

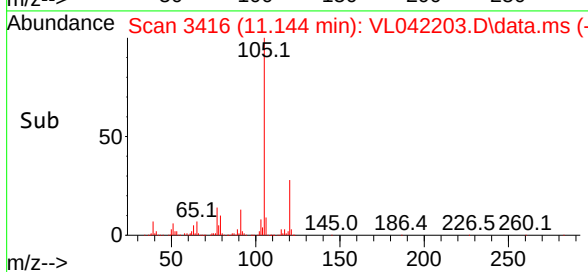
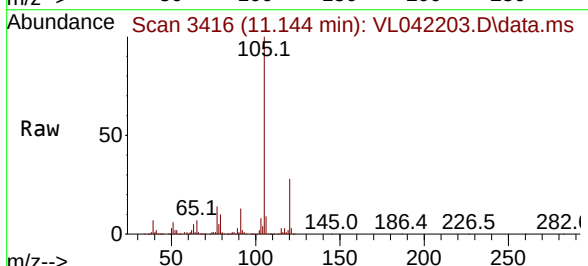
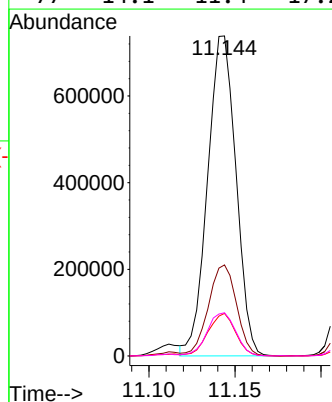
Manual Integrations  
APPROVED

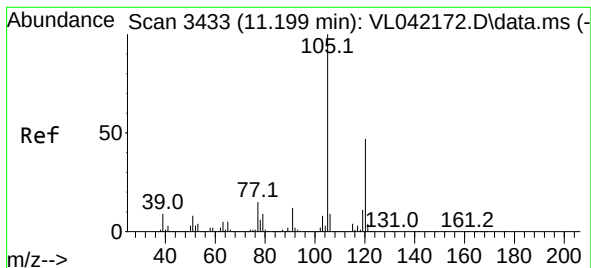
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#72  
4-Ethyltoluene  
Concen: 10.500 ppbv  
RT: 11.144 min Scan# 3416  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion:105 Resp: 848380  
Ion Ratio Lower Upper  
105 100  
120 29.2 23.4 35.0  
91 13.4 10.3 15.5  
77 14.1 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 10.441 ppbv

RT: 11.222 min Scan# 3433

Delta R.T. 0.022 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VL0331ABS01

Tgt Ion:105 Resp: 736772

Ion Ratio Lower Upper

105 100

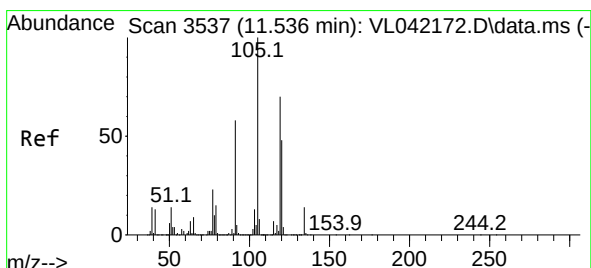
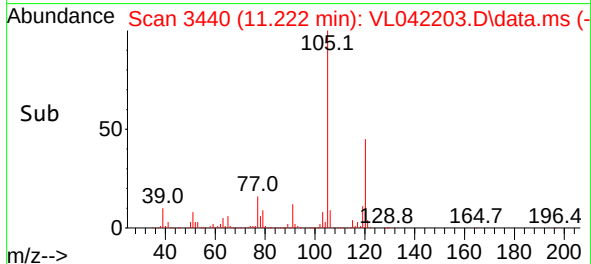
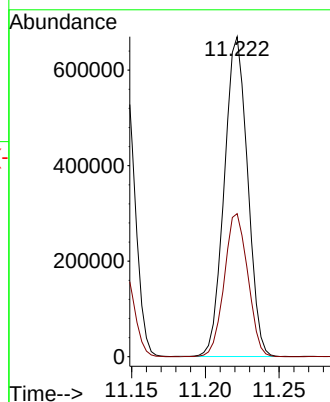
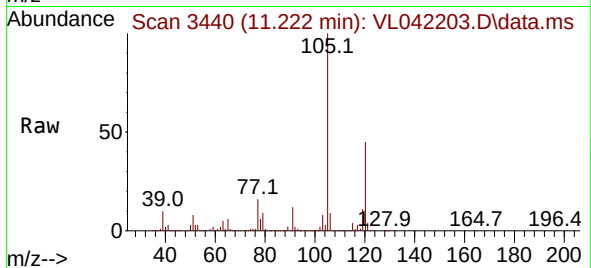
120 44.7 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025

Supervised By :Mahesh Dadoda 04/01/2025



#74

1,2,4-Trimethylbenzene

Concen: 9.841 ppbv

RT: 11.555 min Scan# 3543

Delta R.T. 0.019 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

Tgt Ion:105 Resp: 800063

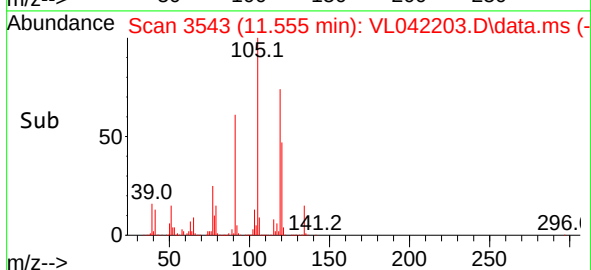
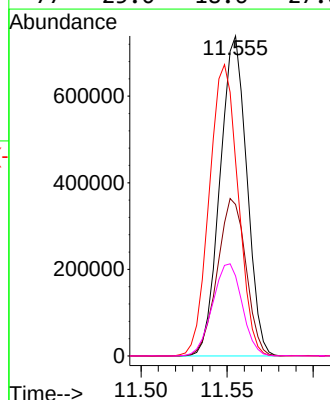
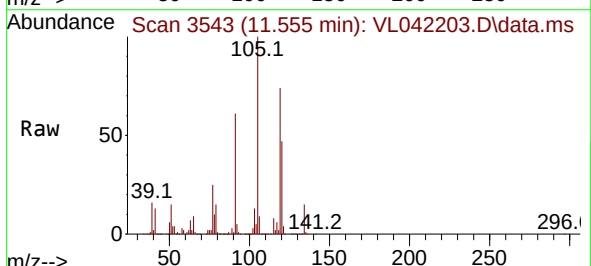
Ion Ratio Lower Upper

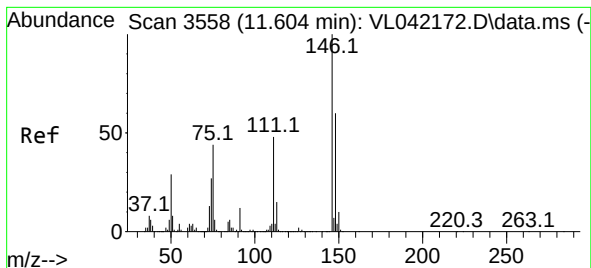
105 100

120 47.3 38.6 58.0

91 60.8 46.2 69.2

77 25.0 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 10.548 ppbv

RT: 11.626 min Scan# 3558

Delta R.T. 0.022 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

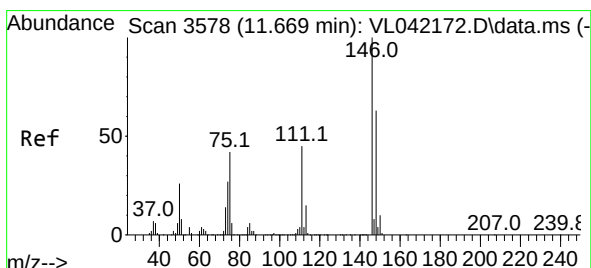
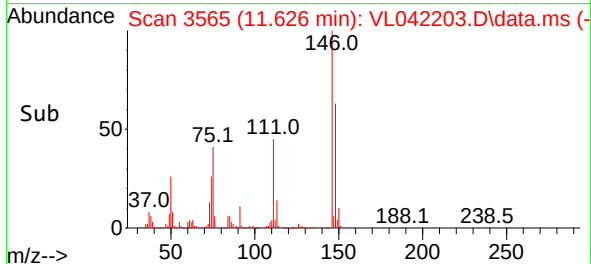
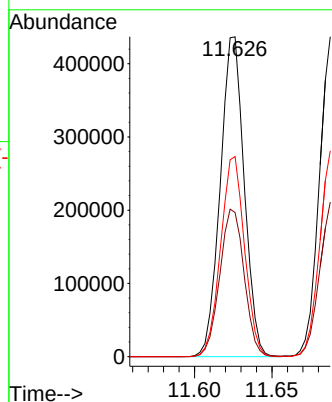
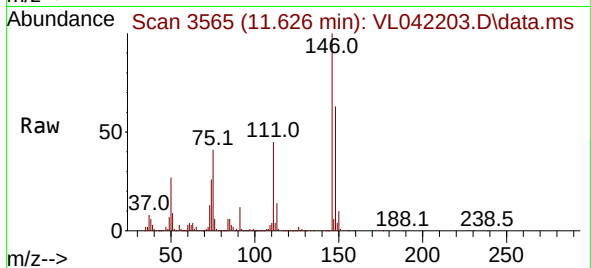
VL0331ABS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 470300 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 46.9  | 23.8  | 71.2   |
| 148       | 62.4  | 31.9  | 95.9   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



#76

1,4-Dichlorobenzene

Concen: 10.538 ppbv

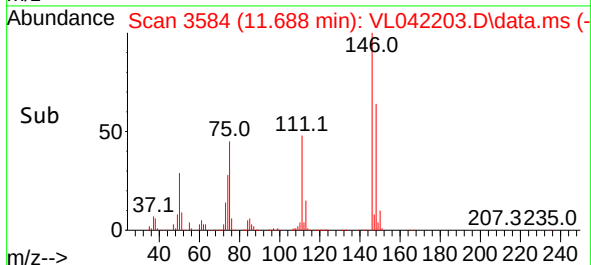
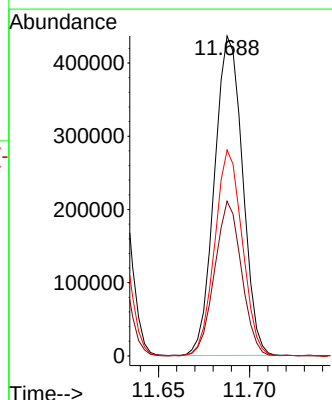
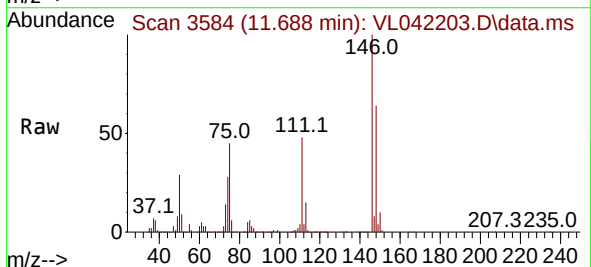
RT: 11.688 min Scan# 3584

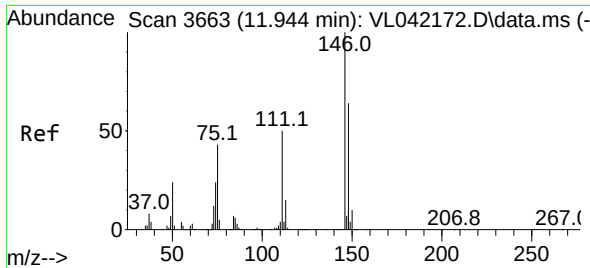
Delta R.T. 0.019 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

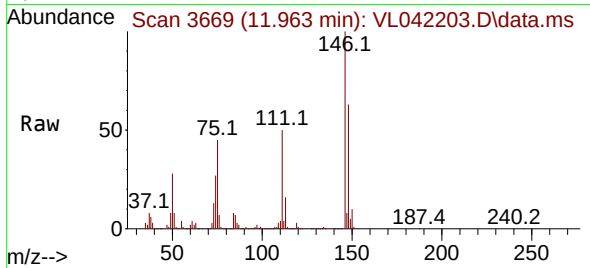
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 467631 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 46.6  | 23.0  | 69.0   |
| 148       | 63.4  | 31.9  | 95.7   |





#77  
1,2-Dichlorobenzene  
Concen: 10.617 ppbv  
RT: 11.963 min Scan# 3669  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

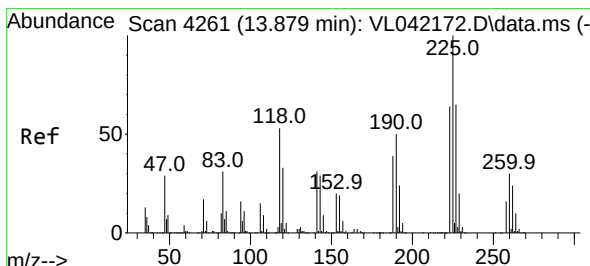
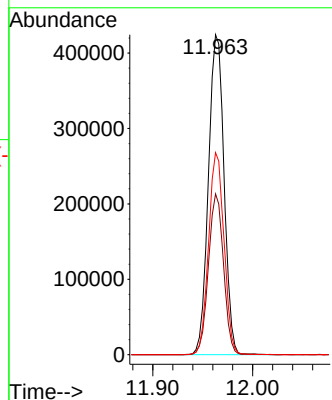
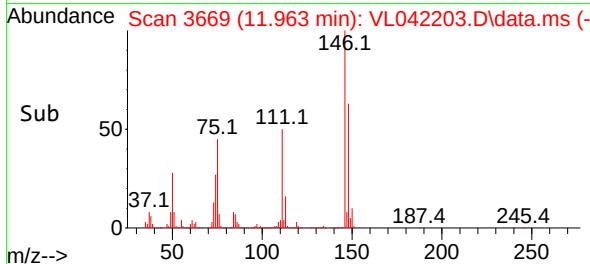
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



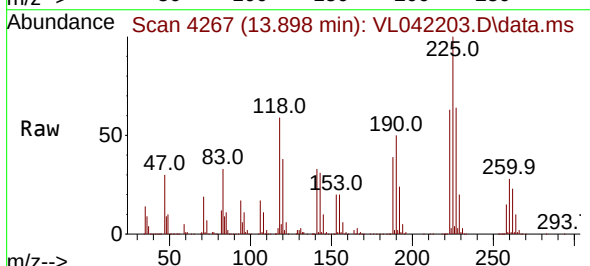
Tgt Ion:146 Resp: 460911  
Ion Ratio Lower Upper  
146 100  
111 48.6 24.8 74.3  
148 62.4 31.6 94.8

Manual Integrations  
APPROVED

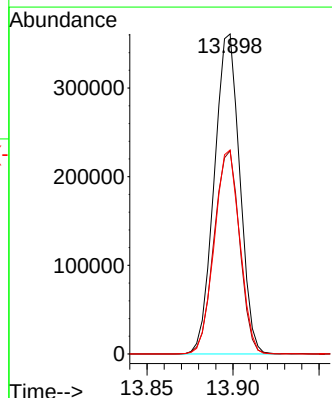
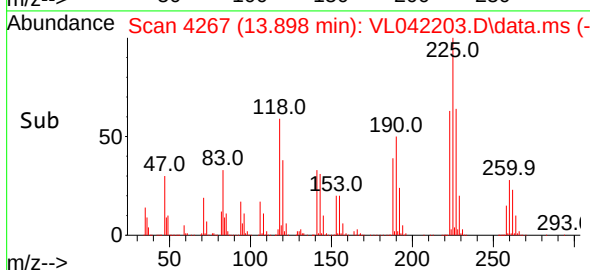
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025

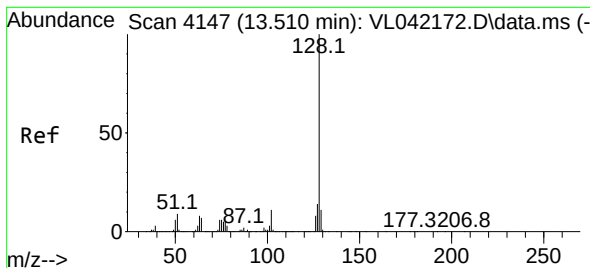


#78  
Hexachloro-1,3-Butadiene  
Concen: 8.418 ppbv  
RT: 13.898 min Scan# 4267  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



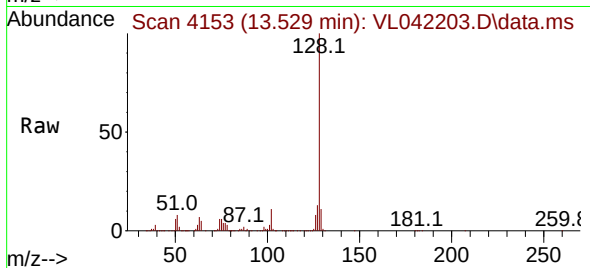
Tgt Ion:225 Resp: 371995  
Ion Ratio Lower Upper  
225 100  
223 63.6 50.6 76.0  
227 63.7 51.2 76.8





#79  
Naphthalene  
Concen: 9.455 ppbv  
RT: 13.529 min Scan# 4147  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

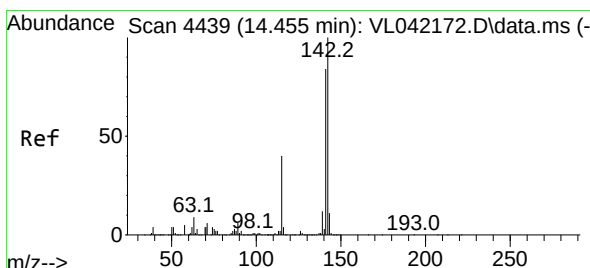
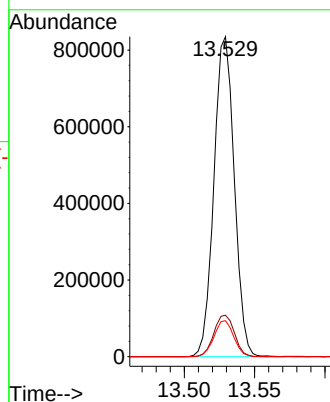
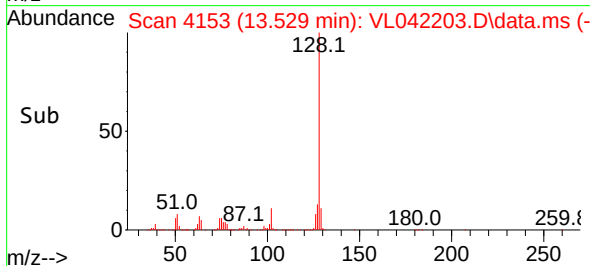
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01



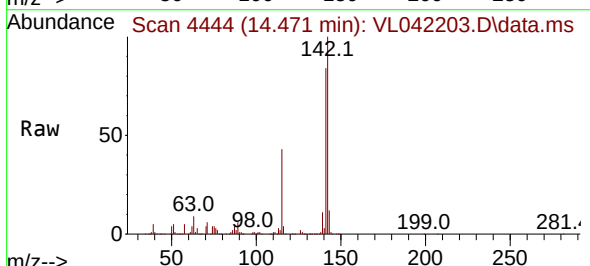
Tgt Ion:128 Resp: 840768  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.8 16.2  
129 11.2 9.0 13.4

Manual Integrations  
APPROVED

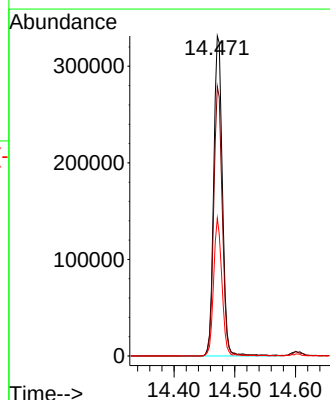
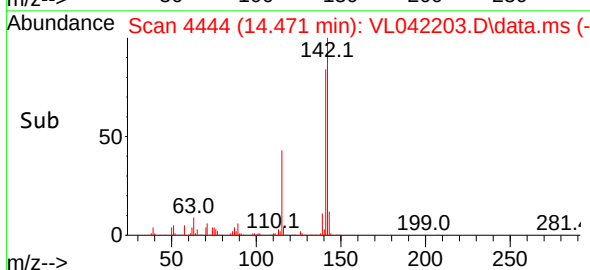
Reviewed By :Semsettin Yesilyurt 04/01/2025  
Supervised By :Mahesh Dadoda 04/01/2025



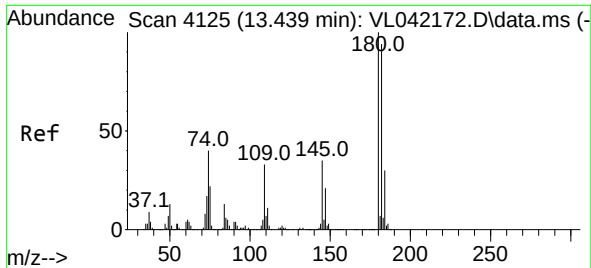
#80  
Naphthalene,2-methyl-  
Concen: 7.541 ppbv  
RT: 14.471 min Scan# 4444  
Delta R.T. 0.016 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17



Tgt Ion:142 Resp: 328839  
Ion Ratio Lower Upper  
142 100  
141 83.3 66.3 99.5  
115 41.4 31.6 47.4

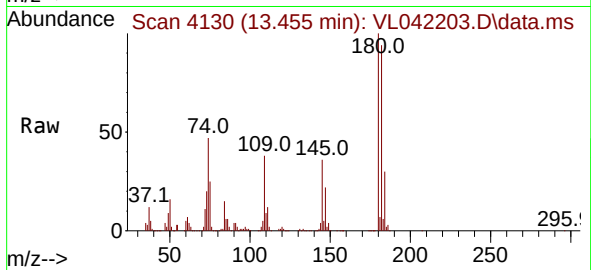






#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.313 ppbv  
 RT: 13.455 min Scan# 41  
 Delta R.T. 0.016 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

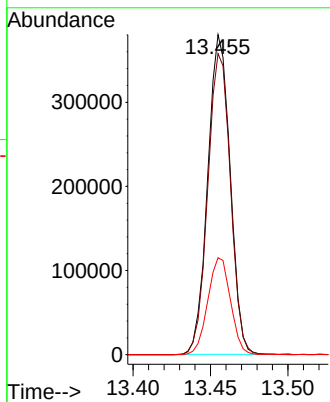
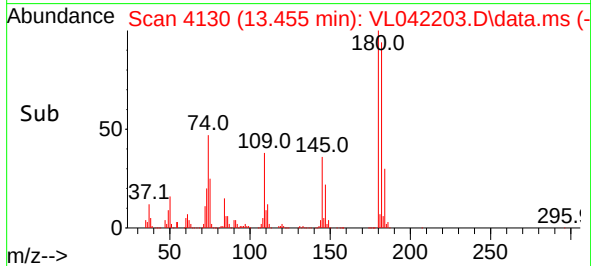
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0331ABS01



Tgt Ion:180 Resp: 38198  
 Ion Ratio Lower Upper  
 180 100  
 182 95.6 75.1 112.7  
 184 30.8 24.4 36.6

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025  
 Supervised By :Mahesh Dadoda 04/01/2025



## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL032725 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter                | Review By | Review On                | Supervised By | Supervised On       | Reason                      |
|-------------|------------|--------------------------|-----------|--------------------------|---------------|---------------------|-----------------------------|
| VSTDICCC010 | VL042172.D | m/p-Xylene               | SAM       | 3/31/2025<br>11:24:55 AM | MMDadoda      | 4/3/2025 8:05:09 AM | Peak Integrated by Software |
| VSTDICCC002 | VL042173.D | 1,4-Dioxane              | SAM       | 3/31/2025<br>11:25:00 AM | MMDadoda      | 4/3/2025 8:05:13 AM | Peak Integrated by Software |
| VSTDICCC002 | VL042173.D | Ethanol                  | SAM       | 3/31/2025<br>11:25:00 AM | MMDadoda      | 4/3/2025 8:05:13 AM | Peak Integrated by Software |
| VSTDICCC002 | VL042173.D | m/p-Xylene               | SAM       | 3/31/2025<br>11:25:00 AM | MMDadoda      | 4/3/2025 8:05:13 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042174.D | 1,4-Dioxane              | SAM       | 3/31/2025<br>11:26:28 AM | MMDadoda      | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042174.D | 4-Methyl-2-Pentanone     | SAM       | 3/31/2025<br>11:26:28 AM | MMDadoda      | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042174.D | Ethanol                  | SAM       | 3/31/2025<br>11:26:28 AM | MMDadoda      | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042174.D | m/p-Xylene               | SAM       | 3/31/2025<br>11:26:28 AM | MMDadoda      | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042174.D | Methyl Methacrylate      | SAM       | 3/31/2025<br>11:26:28 AM | MMDadoda      | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042174.D | Propene                  | SAM       | 3/31/2025<br>11:26:28 AM | MMDadoda      | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042174.D | t-1,3-Dichloropropene    | SAM       | 3/31/2025<br>11:26:28 AM | MMDadoda      | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042174.D | trans-1,2-Dichloroethene | SAM       | 3/31/2025<br>11:26:28 AM | MMDadoda      | 4/3/2025 8:05:22 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042174.D | Vinyl Acetate            | SAM       | 3/31/2025<br>11:26:28 AM | MMDadoda      | 4/3/2025 8:05:22 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL032725 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID  | File ID    | Parameter                 | Review By | Review On                | Supervised By | Supervised On       | Reason                      |
|------------|------------|---------------------------|-----------|--------------------------|---------------|---------------------|-----------------------------|
| VSTDICC0.5 | VL042175.D | 1,1,2-Trichloroethane     | SAM       | 3/31/2025<br>11:26:33 AM | MMDadoda      | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | 1,4-Dioxane               | SAM       | 3/31/2025<br>11:26:33 AM | MMDadoda      | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | cis-1,3-Dichloropropene   | SAM       | 3/31/2025<br>11:26:33 AM | MMDadoda      | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | Cyclohexane               | SAM       | 3/31/2025<br>11:26:33 AM | MMDadoda      | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | m/p-Xylene                | SAM       | 3/31/2025<br>11:26:33 AM | MMDadoda      | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | Methyl Methacrylate       | SAM       | 3/31/2025<br>11:26:33 AM | MMDadoda      | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | Propene                   | SAM       | 3/31/2025<br>11:26:33 AM | MMDadoda      | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | Tetrahydrofuran           | SAM       | 3/31/2025<br>11:26:33 AM | MMDadoda      | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042175.D | Trichloroethene           | SAM       | 3/31/2025<br>11:26:33 AM | MMDadoda      | 4/3/2025 8:05:37 AM | Peak Integrated by Software |
| VSTDICC0.1 | VL042176.D | 1,1,1-Trichloroethane     | SAM       | 3/31/2025<br>11:25:04 AM | MMDadoda      | 4/3/2025 8:05:45 AM | Peak Integrated by Software |
| VSTDICC0.1 | VL042176.D | 1,1,2,2-Tetrachloroethane | SAM       | 3/31/2025<br>11:25:04 AM | MMDadoda      | 4/3/2025 8:05:45 AM | Peak Integrated by Software |
| VSTDICC0.1 | VL042176.D | 1,2-Dibromoethane         | SAM       | 3/31/2025<br>11:25:04 AM | MMDadoda      | 4/3/2025 8:05:45 AM | Peak Integrated by Software |
| VSTDICC0.1 | VL042176.D | Carbon Tetrachloride      | SAM       | 3/31/2025<br>11:25:04 AM | MMDadoda      | 4/3/2025 8:05:45 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL032725 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter                 | Review By | Review On                | Supervised By | Supervised On       | Reason                      |
|-------------|------------|---------------------------|-----------|--------------------------|---------------|---------------------|-----------------------------|
| VSTDICC0.1  | VL042176.D | Trichloroethene           | SAM       | 3/31/2025<br>11:25:04 AM | MMDadoda      | 4/3/2025 8:05:45 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL042177.D | 1,1,1-Trichloroethane     | SAM       | 3/31/2025<br>11:26:39 AM | MMDadoda      | 4/3/2025 8:05:59 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL042177.D | 1,1,2,2-Tetrachloroethane | SAM       | 3/31/2025<br>11:26:39 AM | MMDadoda      | 4/3/2025 8:05:59 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL042177.D | Carbon Tetrachloride      | SAM       | 3/31/2025<br>11:26:39 AM | MMDadoda      | 4/3/2025 8:05:59 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL042177.D | Tetrachloroethene         | SAM       | 3/31/2025<br>11:26:39 AM | MMDadoda      | 4/3/2025 8:05:59 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL042177.D | Trichloroethene           | SAM       | 3/31/2025<br>11:26:39 AM | MMDadoda      | 4/3/2025 8:05:59 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL042177.D | Vinyl Chloride            | SAM       | 3/31/2025<br>11:26:39 AM | MMDadoda      | 4/3/2025 8:05:59 AM | Peak Integrated by Software |
| VSTDICC015  | VL042178.D | m/p-Xylene                | SAM       | 3/31/2025<br>11:25:14 AM | MMDadoda      | 4/3/2025 8:06:09 AM | Peak Integrated by Software |
| VSTDICV010  | VL042179.D | m/p-Xylene                | SAM       | 3/31/2025<br>11:28:50 AM | MMDadoda      | 4/3/2025 8:06:14 AM | Peak Integrated by Software |
| VL0327ABS01 | VL042181.D | m/p-Xylene                | SAM       | 3/31/2025<br>11:25:09 AM | MMDadoda      | 4/3/2025 8:06:19 AM | Peak Integrated by Software |
| Q1669-01    | VL042185.D | 2,2,4-Trimethylpentane    | SAM       | 3/31/2025<br>11:26:49 AM | MMDadoda      | 4/3/2025 8:06:44 AM | Peak Integrated by Software |
| Q1669-01    | VL042185.D | 4-Methyl-2-Pentanone      | SAM       | 3/31/2025<br>11:26:49 AM | MMDadoda      | 4/3/2025 8:06:44 AM | Peak Integrated by Software |
| Q1669-01    | VL042185.D | Chlorodifluoromethane     | SAM       | 3/31/2025<br>11:26:49 AM | MMDadoda      | 4/3/2025 8:06:44 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL032725 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID | File ID    | Parameter              | Review By | Review On                | Supervised By | Supervised On       | Reason                      |
|-----------|------------|------------------------|-----------|--------------------------|---------------|---------------------|-----------------------------|
| Q1669-01  | VL042185.D | Cyclohexane            | SAM       | 3/31/2025<br>11:26:49 AM | MMDadoda      | 4/3/2025 8:06:44 AM | Peak Integrated by Software |
| Q1669-01  | VL042185.D | Heptane                | SAM       | 3/31/2025<br>11:26:49 AM | MMDadoda      | 4/3/2025 8:06:44 AM | Peak Integrated by Software |
| Q1669-01  | VL042185.D | m/p-Xylene             | SAM       | 3/31/2025<br>11:26:49 AM | MMDadoda      | 4/3/2025 8:06:44 AM | Peak Integrated by Software |
| Q1669-02  | VL042186.D | 2,2,4-Trimethylpentane | SAM       | 3/31/2025<br>11:26:59 AM | MMDadoda      | 4/3/2025 8:06:49 AM | Peak Integrated by Software |
| Q1669-02  | VL042186.D | Carbon Tetrachloride   | SAM       | 3/31/2025<br>11:26:59 AM | MMDadoda      | 4/3/2025 8:06:49 AM | Peak Integrated by Software |
| Q1669-02  | VL042186.D | Chlorodifluoromethane  | SAM       | 3/31/2025<br>11:26:59 AM | MMDadoda      | 4/3/2025 8:06:49 AM | Peak Integrated by Software |
| Q1669-02  | VL042186.D | Cyclohexane            | SAM       | 3/31/2025<br>11:26:59 AM | MMDadoda      | 4/3/2025 8:06:49 AM | Peak Integrated by Software |
| Q1669-02  | VL042186.D | Heptane                | SAM       | 3/31/2025<br>11:26:59 AM | MMDadoda      | 4/3/2025 8:06:49 AM | Peak Integrated by Software |
| Q1669-02  | VL042186.D | Propene                | SAM       | 3/31/2025<br>11:26:59 AM | MMDadoda      | 4/3/2025 8:06:49 AM | Peak Integrated by Software |
| Q1669-02  | VL042186.D | Styrene                | SAM       | 3/31/2025<br>11:26:59 AM | MMDadoda      | 4/3/2025 8:06:49 AM | Peak Integrated by Software |
| Q1669-02  | VL042186.D | Trichloroethene        | SAM       | 3/31/2025<br>11:26:59 AM | MMDadoda      | 4/3/2025 8:06:49 AM | Peak Integrated by Software |
| Q1669-03  | VL042187.D | 2,2,4-Trimethylpentane | SAM       | 3/31/2025<br>11:25:41 AM | MMDadoda      | 4/3/2025 8:06:54 AM | Peak Integrated by Software |
| Q1669-03  | VL042187.D | 4-Methyl-2-Pentanone   | SAM       | 3/31/2025<br>11:25:41 AM | MMDadoda      | 4/3/2025 8:06:54 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL032725 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter             | Review By | Review On                | Supervised By | Supervised On       | Reason                      |
|-------------|------------|-----------------------|-----------|--------------------------|---------------|---------------------|-----------------------------|
| Q1669-03    | VL042187.D | Carbon Tetrachloride  | SAM       | 3/31/2025<br>11:25:41 AM | MMDadoda      | 4/3/2025 8:06:54 AM | Peak Integrated by Software |
| Q1669-03    | VL042187.D | Cyclohexane           | SAM       | 3/31/2025<br>11:25:41 AM | MMDadoda      | 4/3/2025 8:06:54 AM | Peak Integrated by Software |
| Q1669-03    | VL042187.D | Heptane               | SAM       | 3/31/2025<br>11:25:41 AM | MMDadoda      | 4/3/2025 8:06:54 AM | Peak Integrated by Software |
| Q1669-03    | VL042187.D | n-propylbenzene       | SAM       | 3/31/2025<br>11:25:41 AM | MMDadoda      | 4/3/2025 8:06:54 AM | Peak Integrated by Software |
| Q1669-04    | VL042188.D | Carbon Tetrachloride  | SAM       | 3/31/2025<br>11:25:57 AM | MMDadoda      | 4/3/2025 8:07:00 AM | Peak Integrated by Software |
| Q1669-04    | VL042188.D | Chlorodifluoromethane | SAM       | 3/31/2025<br>11:25:57 AM | MMDadoda      | 4/3/2025 8:07:00 AM | Peak Integrated by Software |
| Q1669-04    | VL042188.D | m/p-Xylene            | SAM       | 3/31/2025<br>11:25:57 AM | MMDadoda      | 4/3/2025 8:07:00 AM | Peak Integrated by Software |
| Q1669-04    | VL042188.D | Propene               | SAM       | 3/31/2025<br>11:25:57 AM | MMDadoda      | 4/3/2025 8:07:00 AM | Peak Integrated by Software |
| Q1669-09    | VL042189.D | Carbon Tetrachloride  | SAM       | 3/31/2025<br>11:25:37 AM | MMDadoda      | 4/3/2025 8:07:08 AM | Peak Integrated by Software |
| Q1669-09    | VL042189.D | m/p-Xylene            | SAM       | 3/31/2025<br>11:25:37 AM | MMDadoda      | 4/3/2025 8:07:08 AM | Peak Integrated by Software |
| Q1669-09    | VL042189.D | Propene               | SAM       | 3/31/2025<br>11:25:37 AM | MMDadoda      | 4/3/2025 8:07:08 AM | Peak Integrated by Software |
| Q1669-09DUP | VL042190.D | Benzene               | SAM       | 3/31/2025<br>11:27:04 AM | MMDadoda      | 4/3/2025 8:07:18 AM | Peak Integrated by Software |
| Q1669-09DUP | VL042190.D | Carbon Tetrachloride  | SAM       | 3/31/2025<br>11:27:04 AM | MMDadoda      | 4/3/2025 8:07:18 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL032725 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter              | Review By | Review On                | Supervised By | Supervised On       | Reason                      |
|-------------|------------|------------------------|-----------|--------------------------|---------------|---------------------|-----------------------------|
| Q1669-09DUP | VL042190.D | m/p-Xylene             | SAM       | 3/31/2025<br>11:27:04 AM | MMDadoda      | 4/3/2025 8:07:18 AM | Peak Integrated by Software |
| Q1669-09DUP | VL042190.D | Toluene                | SAM       | 3/31/2025<br>11:27:04 AM | MMDadoda      | 4/3/2025 8:07:18 AM | Peak Integrated by Software |
| Q1669-07DL  | VL042192.D | 4-Methyl-2-Pentanone   | SAM       | 3/31/2025<br>11:27:27 AM | MMDadoda      | 4/3/2025 8:07:28 AM | Peak Integrated by Software |
| Q1669-07DL  | VL042192.D | m/p-Xylene             | SAM       | 3/31/2025<br>11:27:27 AM | MMDadoda      | 4/3/2025 8:07:28 AM | Peak Integrated by Software |
| Q1669-01DL  | VL042195.D | m/p-Xylene             | SAM       | 3/31/2025<br>11:27:14 AM | MMDadoda      | 4/3/2025 8:07:50 AM | Peak Integrated by Software |
| Q1669-01DL  | VL042195.D | Propene                | SAM       | 3/31/2025<br>11:27:14 AM | MMDadoda      | 4/3/2025 8:07:50 AM | Peak Integrated by Software |
| Q1669-01DUP | VL042196.D | 2,2,4-Trimethylpentane | SAM       | 3/31/2025<br>11:25:32 AM | MMDadoda      | 4/3/2025 8:07:55 AM | Peak Integrated by Software |
| Q1669-01DUP | VL042196.D | 4-Methyl-2-Pentanone   | SAM       | 3/31/2025<br>11:25:32 AM | MMDadoda      | 4/3/2025 8:07:55 AM | Peak Integrated by Software |
| Q1669-01DUP | VL042196.D | Cyclohexane            | SAM       | 3/31/2025<br>11:25:32 AM | MMDadoda      | 4/3/2025 8:07:55 AM | Peak Integrated by Software |
| Q1669-01DUP | VL042196.D | Heptane                | SAM       | 3/31/2025<br>11:25:32 AM | MMDadoda      | 4/3/2025 8:07:55 AM | Peak Integrated by Software |
| Q1669-05    | VL042197.D | Carbon Tetrachloride   | SAM       | 3/31/2025<br>11:26:03 AM | MMDadoda      | 4/3/2025 8:08:00 AM | Peak Integrated by Software |
| Q1669-05    | VL042197.D | Chlorodifluoromethane  | SAM       | 3/31/2025<br>11:26:03 AM | MMDadoda      | 4/3/2025 8:08:00 AM | Peak Integrated by Software |
| Q1669-05    | VL042197.D | Cyclohexane            | SAM       | 3/31/2025<br>11:26:03 AM | MMDadoda      | 4/3/2025 8:08:00 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL032725 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID | File ID    | Parameter              | Review By | Review On                | Supervised By | Supervised On       | Reason                      |
|-----------|------------|------------------------|-----------|--------------------------|---------------|---------------------|-----------------------------|
| Q1669-05  | VL042197.D | Propene                | SAM       | 3/31/2025<br>11:26:03 AM | MMDadoda      | 4/3/2025 8:08:00 AM | Peak Integrated by Software |
| Q1669-05  | VL042197.D | Tetrachloroethene      | SAM       | 3/31/2025<br>11:26:03 AM | MMDadoda      | 4/3/2025 8:08:00 AM | Peak Integrated by Software |
| Q1669-05  | VL042197.D | Tetrahydrofuran        | SAM       | 3/31/2025<br>11:26:03 AM | MMDadoda      | 4/3/2025 8:08:00 AM | Peak Integrated by Software |
| Q1669-07  | VL042198.D | 2,2,4-Trimethylpentane | SAM       | 3/31/2025<br>11:25:25 AM | MMDadoda      | 4/3/2025 8:08:04 AM | Peak Integrated by Software |
| Q1669-07  | VL042198.D | Carbon Tetrachloride   | SAM       | 3/31/2025<br>11:25:25 AM | MMDadoda      | 4/3/2025 8:08:04 AM | Peak Integrated by Software |
| Q1669-07  | VL042198.D | Cyclohexane            | SAM       | 3/31/2025<br>11:25:25 AM | MMDadoda      | 4/3/2025 8:08:04 AM | Peak Integrated by Software |
| Q1669-07  | VL042198.D | Heptane                | SAM       | 3/31/2025<br>11:25:25 AM | MMDadoda      | 4/3/2025 8:08:04 AM | Peak Integrated by Software |
| Q1669-07  | VL042198.D | n-propylbenzene        | SAM       | 3/31/2025<br>11:25:25 AM | MMDadoda      | 4/3/2025 8:08:04 AM | Peak Integrated by Software |
| Q1669-07  | VL042198.D | Trichloroethene        | SAM       | 3/31/2025<br>11:25:25 AM | MMDadoda      | 4/3/2025 8:08:04 AM | Peak Integrated by Software |
| Q1669-08  | VL042199.D | Carbon Tetrachloride   | SAM       | 3/31/2025<br>11:25:20 AM | MMDadoda      | 4/3/2025 8:08:09 AM | Peak Integrated by Software |
| Q1669-08  | VL042199.D | Chlorobenzene          | SAM       | 3/31/2025<br>11:25:20 AM | MMDadoda      | 4/3/2025 8:08:09 AM | Peak Integrated by Software |
| Q1669-08  | VL042199.D | Chlorodifluoromethane  | SAM       | 3/31/2025<br>11:25:20 AM | MMDadoda      | 4/3/2025 8:08:09 AM | Peak Integrated by Software |
| Q1669-08  | VL042199.D | Heptane                | SAM       | 3/31/2025<br>11:25:20 AM | MMDadoda      | 4/3/2025 8:08:09 AM | Peak Integrated by Software |



## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL032725 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID | File ID    | Parameter  | Review By | Review On                | Supervised By | Supervised On          | Reason                      |
|-----------|------------|------------|-----------|--------------------------|---------------|------------------------|-----------------------------|
| Q1669-08  | VL042199.D | m/p-Xylene | SAM       | 3/31/2025<br>11:25:20 AM | MMDadoda      | 4/3/2025 8:08:09<br>AM | Peak Integrated by Software |
| Q1669-08  | VL042199.D | Propene    | SAM       | 3/31/2025<br>11:25:20 AM | MMDadoda      | 4/3/2025 8:08:09<br>AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL033125 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter             | Review By | Review On           | Supervised By | Supervised On       | Reason                      |
|-------------|------------|-----------------------|-----------|---------------------|---------------|---------------------|-----------------------------|
| VSTDCCC010  | VL042201.D | 1,1,2-Trichloroethane | SAM       | 4/1/2025 7:30:55 AM | MMDadoda      | 4/1/2025 1:19:08 PM | Peak Integrated by Software |
| VSTDCCC010  | VL042201.D | 1,4-Dioxane           | SAM       | 4/1/2025 7:30:55 AM | MMDadoda      | 4/1/2025 1:19:08 PM | Peak Integrated by Software |
| VSTDCCC010  | VL042201.D | m/p-Xylene            | SAM       | 4/1/2025 7:30:55 AM | MMDadoda      | 4/1/2025 1:19:08 PM | Peak Integrated by Software |
| VL0331ABS01 | VL042203.D | m/p-Xylene            | SAM       | 4/1/2025 7:31:07 AM | MMDadoda      | 4/1/2025 1:19:10 PM | Peak Integrated by Software |
| Q1669-06    | VL042204.D | 4-Methyl-2-Pentanone  | SAM       | 4/1/2025 7:47:12 AM | MMDadoda      | 4/1/2025 1:19:11 PM | Peak Integrated by Software |
| Q1669-06    | VL042204.D | Trichloroethene       | SAM       | 4/1/2025 7:47:12 AM | MMDadoda      | 4/1/2025 1:19:11 PM | Peak Integrated by Software |
| Q1669-06DL  | VL042205.D | 4-Methyl-2-Pentanone  | SAM       | 4/1/2025 7:47:17 AM | MMDadoda      | 4/1/2025 1:19:13 PM | Peak Integrated by Software |
| Q1669-06DL  | VL042205.D | Heptane               | SAM       | 4/1/2025 7:47:17 AM | MMDadoda      | 4/1/2025 1:19:13 PM | Peak Integrated by Software |
| Q1669-06DL  | VL042205.D | Tetrahydrofuran       | SAM       | 4/1/2025 7:47:17 AM | MMDadoda      | 4/1/2025 1:19:13 PM | Peak Integrated by Software |
| Q1669-06DUP | VL042206.D | 4-Methyl-2-Pentanone  | SAM       | 4/1/2025 7:31:12 AM | MMDadoda      | 4/1/2025 1:19:14 PM | Peak Integrated by Software |
| Q1669-06DUP | VL042206.D | Naphthalene,2-methyl- | SAM       | 4/1/2025 7:31:12 AM | MMDadoda      | 4/1/2025 1:19:14 PM | Peak Integrated by Software |
| Q1669-06DUP | VL042206.D | Tetrachloroethene     | SAM       | 4/1/2025 7:31:12 AM | MMDadoda      | 4/1/2025 1:19:14 PM | Peak Integrated by Software |



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

## Manual Integration Report

Sequence:

VL033125

Instrument

MSVOA\_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised  
By

Supervised On

Reason

Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL032725**

| Review By                | Mahesh 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             |                      |                   |                     |                      |               |

| 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/QCBatch ID # VL033125**

|                          |                     |                      |                     |                      |               |
|--------------------------|---------------------|----------------------|---------------------|----------------------|---------------|
| Review By                | Semsettin Yesilyurt | Review On            | 4/1/2025 8:03:30 AM |                      |               |
| Supervise By             | Amit Patel          | Supervise On         | 4/1/2025 1:18:11 PM |                      |               |
| SubDirectory             | VL033125            | 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             |                     |                      |                     |                      |               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status   |
|-----|-------------|----------------|-------------------|----------|----------|
| 1   | BFB         | VL042200.D     | 31 Mar 2025 08:09 | SY/MD    | Ok       |
| 2   | VSTDCCC010  | VL042201.D     | 31 Mar 2025 08:51 | SY/MD    | Ok,M     |
| 3   | VL0331ABL01 | VL042202.D     | 31 Mar 2025 09:34 | SY/MD    | Ok       |
| 4   | VL0331ABS01 | VL042203.D     | 31 Mar 2025 10:17 | SY/MD    | Ok,M     |
| 5   | Q1669-06    | VL042204.D     | 31 Mar 2025 11:06 | SY/MD    | Dilution |
| 6   | Q1669-06DL  | VL042205.D     | 31 Mar 2025 11:52 | SY/MD    | Ok,M     |
| 7   | Q1669-06DUP | VL042206.D     | 31 Mar 2025 12:26 | SY/MD    | Ok,M     |
| 8   | Q1649-01    | VL042207.D     | 31 Mar 2025 13:05 | SY/MD    | Ok,M     |
| 9   | Q1649-02    | VL042208.D     | 31 Mar 2025 13:36 | SY/MD    | Ok,M     |
| 10  | VIBLK       | VL042209.D     | 31 Mar 2025 14:07 | SY/MD    | Ok       |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL032725**

|                          |                      |                      |                     |
|--------------------------|----------------------|----------------------|---------------------|
| Review By                | Mahesh 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           | ClientID           | Data File Name | Date-Time         | Comment               | Operator | Status   |
|-----|--------------------|--------------------|----------------|-------------------|-----------------------|----------|----------|
| 1   | BFB                | BFB                | VL042171.D     | 27 Mar 2025 07:44 |                       | SY/MD    | Ok       |
| 2   | VSTDICCC010        | VSTDICCC010        | VL042172.D     | 27 Mar 2025 08:26 |                       | SY/MD    | Ok,M     |
| 3   | VSTDICC002         | VSTDICC002         | VL042173.D     | 27 Mar 2025 08:59 |                       | SY/MD    | Ok,M     |
| 4   | VSTDICC001         | VSTDICC001         | VL042174.D     | 27 Mar 2025 09:30 |                       | SY/MD    | Ok,M     |
| 5   | VSTDICC0.5         | VSTDICC0.5         | VL042175.D     | 27 Mar 2025 10:01 |                       | SY/MD    | Ok,M     |
| 6   | VSTDICC0.1         | VSTDICC0.1         | VL042176.D     | 27 Mar 2025 10:32 |                       | SY/MD    | Ok,M     |
| 7   | VSTDICC0.03        | VSTDICC0.03        | VL042177.D     | 27 Mar 2025 11:03 |                       | SY/MD    | Ok,M     |
| 8   | VSTDICC015         | VSTDICC015         | VL042178.D     | 27 Mar 2025 11:36 |                       | SY/MD    | Ok,M     |
| 9   | VSTDICV010         | ICVVL032725        | VL042179.D     | 27 Mar 2025 12:23 |                       | SY/MD    | Ok,M     |
| 10  | VL0327ABL01        | VL0327ABL01        | VL042180.D     | 27 Mar 2025 13:50 |                       | SY/MD    | Ok       |
| 11  | VL0327ABS01        | VL0327ABS01        | VL042181.D     | 27 Mar 2025 14:39 |                       | SY/MD    | Ok,M     |
| 12  | QC032625 CAN 10448 | QC032625 CAN 10448 | VL042182.D     | 27 Mar 2025 16:41 |                       | SY/MD    | Ok       |
| 13  | Q1649-01           | SV1                | VL042183.D     | 27 Mar 2025 17:13 | rerun 4X,not required | SY/MD    | Not Ok   |
| 14  | Q1649-02           | SV2                | VL042184.D     | 27 Mar 2025 17:45 | rerun 4X,not required | SY/MD    | Not Ok   |
| 15  | Q1669-01           | IA-B9-3-3262025    | VL042185.D     | 27 Mar 2025 18:22 | Need 5x               | SY/MD    | Dilution |
| 16  | Q1669-02           | IA-B9-2-3262025    | VL042186.D     | 27 Mar 2025 18:59 |                       | SY/MD    | Ok,M     |
| 17  | Q1669-03           | IA-B9-1-3262025    | VL042187.D     | 27 Mar 2025 19:36 |                       | SY/MD    | Ok,M     |
| 18  | Q1669-04           | AA-1-3262025       | VL042188.D     | 27 Mar 2025 20:12 |                       | SY/MD    | Ok,M     |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL032725**

|                          |                     |                      |                     |                      |               |
|--------------------------|---------------------|----------------------|---------------------|----------------------|---------------|
| Review By                | Mahesh 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             |                     |                      |                     |                      |               |

|    |             |                    |            |                   |                   |       |          |
|----|-------------|--------------------|------------|-------------------|-------------------|-------|----------|
| 19 | Q1669-09    | AA-2-3262025       | VL042189.D | 27 Mar 2025 20:48 |                   | SY/MD | Ok,M     |
| 20 | Q1669-09DUP | AA-2-3262025DUP    | VL042190.D | 27 Mar 2025 21:24 |                   | SY/MD | Ok,M     |
| 21 | Q1669-05    | SSSG-B16-3-3262025 | VL042191.D | 27 Mar 2025 21:57 | Need straight run | SY/MD | Not Ok   |
| 22 | Q1669-07DL  | SSSG-B16-1-3262025 | VL042192.D | 27 Mar 2025 22:29 |                   | SY/MD | Ok,M     |
| 23 | Q1669-08    | SSSG-B16-2-3262025 | VL042193.D | 27 Mar 2025 23:01 | Need straight run | SY/MD | Not Ok   |
| 24 | VIBLK       | VIBLK              | VL042194.D | 27 Mar 2025 23:34 |                   | SY/MD | Ok       |
| 25 | Q1669-01DL  | IA-B9-3-3262025DL  | VL042195.D | 28 Mar 2025 00:06 |                   | SY/MD | Ok,M     |
| 26 | Q1669-01DUP | IA-B9-3-3262025DUP | VL042196.D | 28 Mar 2025 00:44 |                   | SY/MD | Ok,M     |
| 27 | Q1669-05    | SSSG-B16-3-3262025 | VL042197.D | 28 Mar 2025 01:20 |                   | SY/MD | Ok,M     |
| 28 | Q1669-07    | SSSG-B16-1-3262025 | VL042198.D | 28 Mar 2025 01:57 | Need 10X          | SY/MD | Dilution |
| 29 | Q1669-08    | SSSG-B16-2-3262025 | 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 # VL033125**

|              |                     |                      |                     |
|--------------|---------------------|----------------------|---------------------|
| Review By    | Semsettin Yesilyurt | Review On            | 4/1/2025 8:03:30 AM |
| Supervise By | Amit Patel          | Supervise On         | 4/1/2025 1:18:11 PM |
| SubDirectory | VL033125            | 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             |                      |

| Sr# | Sampled     | ClientID           | Data File Name | Date-Time         | Comment | Operator | Status   |
|-----|-------------|--------------------|----------------|-------------------|---------|----------|----------|
| 1   | BFB         | BFB                | VL042200.D     | 31 Mar 2025 08:09 |         | SY/MD    | Ok       |
| 2   | VSTDCCC010  | VSTDCCC010         | VL042201.D     | 31 Mar 2025 08:51 |         | SY/MD    | Ok,M     |
| 3   | VL0331ABL01 | VL0331ABL01        | VL042202.D     | 31 Mar 2025 09:34 |         | SY/MD    | Ok       |
| 4   | VL0331ABS01 | VL0331ABS01        | VL042203.D     | 31 Mar 2025 10:17 |         | SY/MD    | Ok,M     |
| 5   | Q1669-06    | SSSG-DUP-1-3262025 | VL042204.D     | 31 Mar 2025 11:06 | Need 4X | SY/MD    | Dilution |
| 6   | Q1669-06DL  | SSSG-DUP-1-3262025 | VL042205.D     | 31 Mar 2025 11:52 |         | SY/MD    | Ok,M     |
| 7   | Q1669-06DUP | SSSG-DUP-1-3262025 | VL042206.D     | 31 Mar 2025 12:26 |         | SY/MD    | Ok,M     |
| 8   | Q1649-01    | SV1                | VL042207.D     | 31 Mar 2025 13:05 |         | SY/MD    | Ok,M     |
| 9   | Q1649-02    | SV2                | VL042208.D     | 31 Mar 2025 13:36 |         | SY/MD    | Ok,M     |
| 10  | VIBLK       | VIBLK              | VL042209.D     | 31 Mar 2025 14:07 |         | SY/MD    | Ok       |

M : Manual Integration

## Prep Standard - Chemical Standard Summary

**Order ID :** Q1669

**Test :** TO-15

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** vI032725,VL033125,

**Standard ID :**

AP2589,AP2593,AP2594,AP2595,AP2596,

**Chemical ID :**

A1117,A1135,A1136,A1137,

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
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15  
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17  
18  
19

## Air STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                             | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 47               | Internal Standard/Surrogate Mix-80 ppbv | <a href="#">AP2589</a> | 03/21/2025       | 04/21/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| 04/03/2025       |                                         |                        |                  |                        |                     |                |                  |                      |

**FROM** 2.40000psi of A1135 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 2396             | TO-15 15 PPBV CAL MIX | <a href="#">AP2593</a> | 03/21/2025       | 04/21/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| 04/03/2025       |                       |                        |                  |                        |                     |                |                  |                      |

**FROM** 1455.00000SCCM of A1117 + 45.00000SCCM of A1136 = Final Quantity: 30.000 psi

## Air STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 2396             | TO-15 15 PPBV CAL MIX | <a href="#">AP2594</a> | 03/21/2025       | 04/21/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| 04/03/2025       |                       |                        |                  |                        |                     |                |                  |                      |

**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> |
|------------------|-----------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 2397             | TO-15 -2 PPBV CAL.MIX | <a href="#">AP2595</a> | 03/25/2025       | 04/21/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| 04/03/2025       |                       |                        |                  |                        |                     |                |                  |                      |

**FROM** 26.00000psi of A1117 + 4.00000psi of AP2593 = 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="#">AP2596</a> | 03/25/2025       | 04/21/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| <b>FROM</b> 29.00000psi of A1117 + 1.00000psi of AP2593 = 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

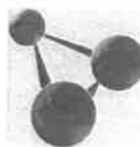
QA Signature: 

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            |  |
|                                |         |                    |  |
|                                |         |                    |  |

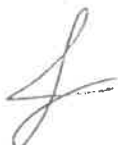
**NOTES:** Blend Tolerance: +/- 20 %  
Analytical Tolerance: +/- 10 %  
Traceability: NIST by weight set. NIST Traceability No MT001810.  
Internal Standards by analysis  
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.  
Required wait time between analyses of >7 days.  
Caution: Do not use below 150 PSIG.

**Analyst Name:** Joseph A. Ernst

**QA Signature:** 

**Signature:**

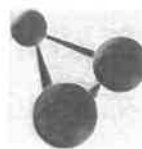
**Date:** 07/16/2024



\*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            |  |
|                                |         |                    |  |
|                                |         |                    |  |

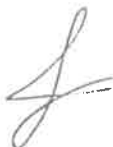
**NOTES:** Blend Tolerance: +/- 20 %  
Analytical Tolerance: +/- 10 %  
Traceability: NIST by weight set. NIST Traceability No MT001810.  
Internal Standards by analysis  
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.  
Required wait time between analyses of >7 days.  
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 : Q1669**

| Date       | Bottle ID | Lab Sample Number | InComing Vacuum | Canister ID | Can Size | Reg ID | Reg Size | Batch Code | Certification ID                                                                                                     |
|------------|-----------|-------------------|-----------------|-------------|----------|--------|----------|------------|----------------------------------------------------------------------------------------------------------------------|
| 03/28/2025 | B2502051  | Q1669-05          | -3.5            | 10607       | 6 L      | 10633  |          | C2502001   | <b>VL041974.D</b><br>Seq :VL020325<br>TUNE : VL041957.D<br>ICAL : VL041894.D<br>CCAL : VL041958.D<br>MB : VL041960.D |
| 03/28/2025 | B2502051  | Q1669-06          | -1.8            | 10606       | 6 L      | 10695  |          | C2503001   | <b>VL042143.D</b><br>Seq :VL031425<br>TUNE : VL042140.D<br>ICAL : VL042046.D<br>CCAL : VL042141.D<br>MB : VL042142.D |
| 03/28/2025 | B2502051  | Q1669-07          | -8.0            | 10445       | 6 L      | 10769  |          | C2503001   | <b>VL042143.D</b><br>Seq :VL031425<br>TUNE : VL042140.D<br>ICAL : VL042046.D<br>CCAL : VL042141.D<br>MB : VL042142.D |
| 03/28/2025 | B2502051  | Q1669-03          | -6.3            | 10320       | 6 L      | 10635  |          | C2503001   | <b>VL042143.D</b><br>Seq :VL031425<br>TUNE : VL042140.D<br>ICAL : VL042046.D<br>CCAL : VL042141.D<br>MB : VL042142.D |
| 03/28/2025 | B2502051  | Q1669-01          | -7.5            | 10311       | 6 L      | 10506  |          | C2502003   | <b>VL042078.D</b><br>Seq :VL030325<br>TUNE : VL042074.D<br>ICAL : VL042046.D<br>CCAL : VL042075.D<br>MB : VL042076.D |
| 03/28/2025 | B2502051  | Q1669-09          | -6.3            | 10285       | 6 L      | 10567  |          | C2502003   | <b>VL042078.D</b><br>Seq :VL030325<br>TUNE : VL042074.D<br>ICAL : VL042046.D<br>CCAL : VL042075.D<br>MB : VL042076.D |

## Process Report

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

**Order ID : Q1669**

| Date       | Bottle ID | Lab Sample Number | InComing Vacuum | Canister ID | Can Size | Reg ID | Reg Size | Batch Code | Certification ID                                                                                                     |
|------------|-----------|-------------------|-----------------|-------------|----------|--------|----------|------------|----------------------------------------------------------------------------------------------------------------------|
| 03/28/2025 | B2502051  | Q1669-02          | -5.9            | 10283       | 6 L      | 10520  |          | C2502003   | <b>VL042078.D</b><br>Seq :VL030325<br>TUNE : VL042074.D<br>ICAL : VL042046.D<br>CCAL : VL042075.D<br>MB : VL042076.D |
| 03/28/2025 | B2502051  | Q1669-08          | -7.1            | 10282       | 6 L      | 10773  |          | C2501004   | <b>VL041966.D</b><br>Seq :VL020325<br>TUNE : VL041957.D<br>ICAL : VL041894.D<br>CCAL : VL041958.D<br>MB : VL041960.D |
| 03/28/2025 | B2502051  | Q1669-04          | -4.7            | 10267       | 6 L      | 10537  |          | C2503001   | <b>VL042143.D</b><br>Seq :VL031425<br>TUNE : VL042140.D<br>ICAL : VL042046.D<br>CCAL : VL042141.D<br>MB : VL042142.D |



## Canister Cleaning

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

**Canister Batch :** C2503001

**Type of Canister :** 6 L

**Cleaning Date :** 03/10/2025

**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       |
|----------|--------------------------------------|-------------------------------------|------------------|----------------------|---------------------------------|-------------------------|----------------|------------|
| 10445    | -30                                  | 03/11/2025                          | 03/14/2025       | -30                  | 03/12/2025                      | Q1669-07                | 10267          | VL042143.D |
| 10267    | -30                                  | 03/11/2025                          | 03/14/2025       | -30                  | 03/12/2025                      | Q1669-04                | 10267          | VL042143.D |
| 10492    | -30                                  | 03/11/2025                          | 03/14/2025       | -30                  | 03/12/2025                      | Q1665-10                | 10267          | VL042143.D |
| 10606    | -30                                  | 03/11/2025                          | 03/14/2025       | -30                  | 03/12/2025                      | Q1669-06                | 10267          | VL042143.D |
| 10280    | -30                                  | 03/11/2025                          | 03/14/2025       | -30                  | 03/12/2025                      |                         | 10267          | VL042143.D |
| 10597    | -30                                  | 03/11/2025                          | 03/14/2025       | -30                  | 03/12/2025                      |                         | 10267          | VL042143.D |
| 10320    | -30                                  | 03/11/2025                          | 03/14/2025       | -30                  | 03/12/2025                      | Q1669-03                | 10267          | VL042143.D |
| 10060    | -30                                  | 03/11/2025                          | 03/14/2025       | -30                  | 03/12/2025                      | Q1668-03                | 10267          | VL042143.D |





## Canister Cleaning

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

**Canister Batch :** C2502003

**Type of Canister :** 6 L

**Cleaning Date :** 02/27/2025

**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       |
|----------|--------------------------------------|-------------------------------------|------------------|----------------------|---------------------------------|-------------------------|----------------|------------|
| 10311    | -30                                  | 02/28/2025                          | 03/03/2025       | -30                  | 03/03/2025                      | Q1669-01                | 10331          | VL042078.D |
| 10315    | -30                                  | 02/28/2025                          | 03/03/2025       | -30                  | 03/03/2025                      | Q1665-13                | 10331          | VL042078.D |
| 10275    | -30                                  | 02/28/2025                          | 03/03/2025       | -30                  | 03/03/2025                      | Q1665-14                | 10331          | VL042078.D |
| 10285    | -30                                  | 02/28/2025                          | 03/03/2025       | -30                  | 03/03/2025                      | Q1669-09                | 10331          | VL042078.D |
| 10331    | -30                                  | 02/28/2025                          | 03/03/2025       | -30                  | 03/03/2025                      | Q1665-19                | 10331          | VL042078.D |
| 10283    | -30                                  | 02/28/2025                          | 03/03/2025       | -30                  | 03/03/2025                      | Q1669-02                | 10331          | VL042078.D |
| 10294    | -30                                  | 02/28/2025                          | 03/03/2025       | -30                  | 03/03/2025                      | Q1665-17                | 10331          | VL042078.D |

**Canister Batch :** C2502001

**Type of Canister :** 6 L

**Cleaning Date :** 02/03/2025

**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       |
|----------|--------------------------------------|-------------------------------------|------------------|----------------------|---------------------------------|-------------------------|----------------|------------|
| 10323    | -30                                  | 02/04/2025                          | 02/04/2025       | -30                  | 02/05/2025                      | Q1665-01                | 10599          | VL041974.D |
| 10607    | -30                                  | 02/04/2025                          | 02/04/2025       | -30                  | 02/05/2025                      | Q1669-05                | 10599          | VL041974.D |
| 10599    | -30                                  | 02/04/2025                          | 02/04/2025       | -30                  | 02/05/2025                      | Q1665-09                | 10599          | VL041974.D |
| 10053    | -30                                  | 02/04/2025                          | 02/04/2025       | -30                  | 02/05/2025                      | Q1665-08                | 10599          | VL041974.D |
| 10598    | -30                                  | 02/04/2025                          | 02/04/2025       | -30                  | 02/05/2025                      | Q1665-11                | 10599          | VL041974.D |
| 10154    | -30                                  | 02/04/2025                          | 02/04/2025       | -30                  | 02/05/2025                      | Q1665-03                | 10599          | VL041974.D |
| 10297    | -30                                  | 02/04/2025                          | 02/04/2025       | -30                  | 02/05/2025                      | Q1665-18                | 10599          | VL041974.D |
| 10608    | -30                                  | 02/04/2025                          | 02/04/2025       | -30                  | 02/05/2025                      | Q1665-16                | 10599          | VL041974.D |



## Canister Cleaning

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

**Canister Batch :** C2501004

**Type of Canister :** 6 L

**Cleaning Date :** 01/28/2025

**Analyst :** SAM

**Oven Temperature :** 125.0 c

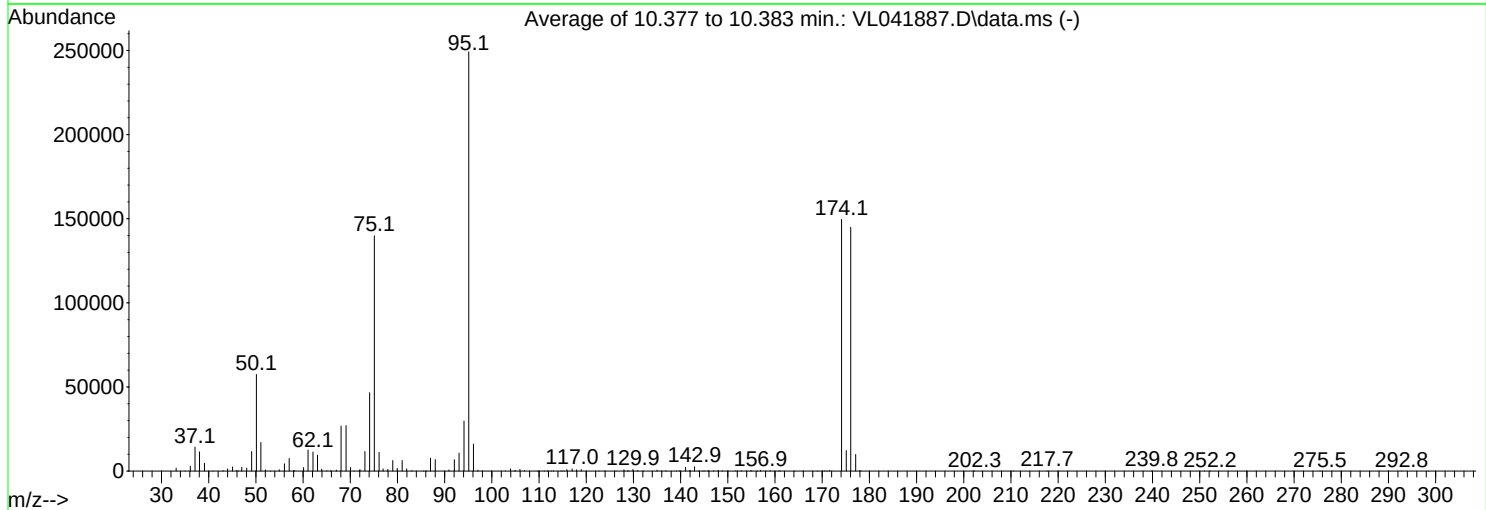
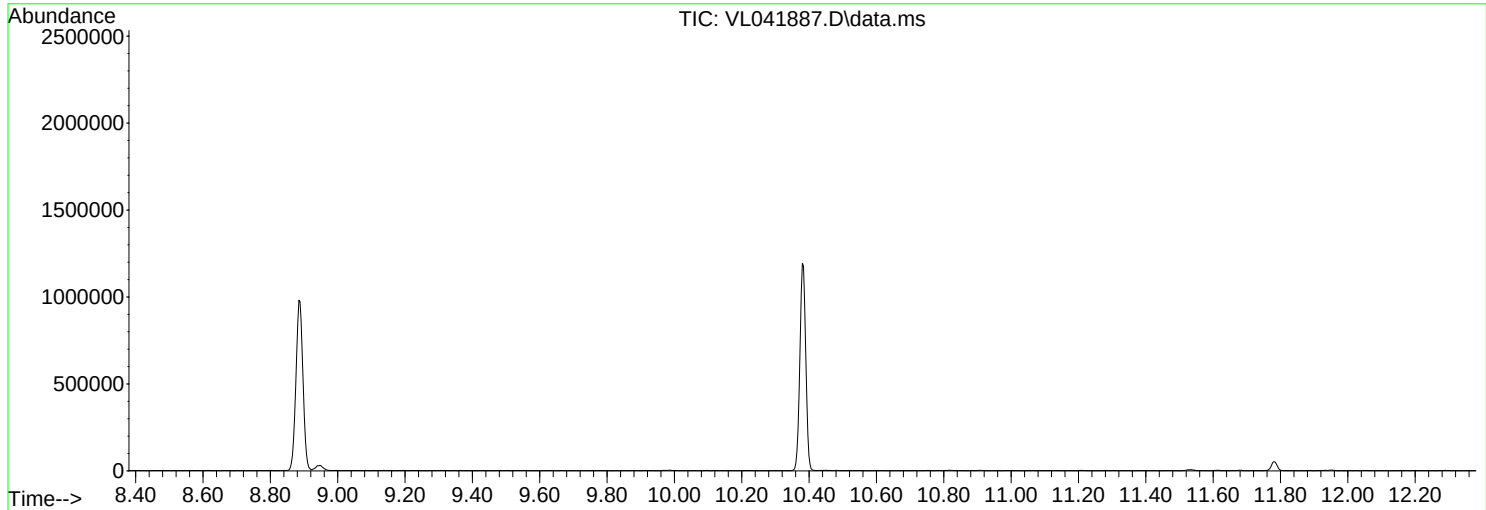
| Canister | Vaccum<br>After<br>Cleaning<br>("Hg) | Vaccum<br>After<br>Cleaning<br>Date | Analysis<br>Date | VAC<br>24Hr<br>("Hg) | Vaccum<br>After<br>24hr<br>Date | New<br>Sample<br>Number | QC<br>Canister | File       |
|----------|--------------------------------------|-------------------------------------|------------------|----------------------|---------------------------------|-------------------------|----------------|------------|
| 10596    | -30                                  | 01/29/2025                          | 02/03/2025       | -30                  | 01/30/2025                      |                         | 10439          | VL041966.D |
| 10321    | -30                                  | 01/29/2025                          | 02/03/2025       | -30                  | 01/30/2025                      | Q1533-02                | 10439          | VL041966.D |
| 10296    | -30                                  | 01/29/2025                          | 02/03/2025       | -30                  | 01/30/2025                      | Q1533-01                | 10439          | VL041966.D |
| 10439    | -30                                  | 01/29/2025                          | 02/03/2025       | -30                  | 01/30/2025                      | Q1649-02                | 10439          | VL041966.D |
| 10282    | -30                                  | 01/29/2025                          | 02/03/2025       | -30                  | 01/30/2025                      | Q1669-08                | 10439          | VL041966.D |
| 10588    | -30                                  | 01/29/2025                          | 02/03/2025       | -30                  | 01/30/2025                      | Q1668-01                | 10439          | VL041966.D |
| 10333    | -30                                  | 01/29/2025                          | 02/03/2025       | -30                  | 01/30/2025                      |                         | 10439          | VL041966.D |
| 10602    | -30                                  | 01/29/2025                          | 02/03/2025       | -30                  | 01/30/2025                      |                         | 10439          | VL041966.D |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
Data File : VL041887.D  
Acq On : 14 Jan 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\VL011425AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3179, 3180, 3181; 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              | 23.0         | 57448      | PASS                |
| 75             | 95              | 30              | 66              | 56.1         | 139893     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 249280     | PASS                |
| 96             | 95              | 5               | 9               | 6.5          | 16102      | PASS                |
| 173            | 174             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 174            | 95              | 50              | 120             | 60.0         | 149632     | PASS                |
| 175            | 174             | 4               | 9               | 8.2          | 12223      | PASS                |
| 176            | 174             | 93              | 101             | 96.8         | 144917     | PASS                |
| 177            | 176             | 5               | 9               | 6.8          | 9838       | PASS                |

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

Method File : VL011425AIR.M

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

Last Update : Tue Jan 14 23:15:42 2025

Response Via : Initial Calibration

## Calibration Files

0.03=VL041894.D 0.1 =VL041893.D 0.5 =VL041892.D 1 =VL041891.D 2 =VL041890.D 10 =VL041889.D 15 =VL041895.D

| Compound                  | 0.03           | 0.1   | 0.5   | 1     | 2     | 10    | 15    | Avg    | %RSD  |
|---------------------------|----------------|-------|-------|-------|-------|-------|-------|--------|-------|
| -----                     |                |       |       |       |       |       |       |        |       |
| 1) I Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |        |       |
| 2) T Dichlorodifluo...    |                |       | 1.450 | 1.406 | 1.359 | 1.300 | 1.295 | 1.362  | 4.93  |
| 3) Chlorodifluoro...      |                |       | 1.448 | 1.547 | 1.466 | 1.330 | 1.343 | 1.427  | 6.34  |
| 4) Chloromethane          |                |       | 0.546 | 0.499 | 0.525 | 0.492 | 0.499 | 0.512  | 4.41  |
| 5) T Vinyl Chloride       | 0.504          | 0.578 | 0.561 | 0.531 | 0.502 | 0.466 | 0.491 | 0.519  | 7.62  |
| 6) T Bromomethane         |                |       | 0.253 | 0.274 | 0.248 | 0.229 | 0.233 | 0.247  | 7.30  |
| 7) Chloroethane           |                |       | 0.210 | 0.205 | 0.209 | 0.193 | 0.194 | 0.202  | 4.08  |
| 8) T Dichlorotetra...     |                |       | 1.282 | 1.198 | 1.225 | 1.095 | 1.151 | 1.190  | 5.99  |
| 9) T Propene              |                |       | 0.642 | 0.577 | 0.605 | 0.568 | 0.548 | 0.588  | 6.21  |
| 10) T Heptane             |                |       | 1.536 | 1.616 | 1.635 | 1.530 | 1.538 | 1.571  | 3.19  |
| 11) T Trichlorofluor...   |                |       | 1.488 | 1.417 | 1.435 | 1.335 | 1.410 | 1.417  | 3.87  |
| 12) T 1,1,2-Trichlor...   |                |       | 1.098 | 1.137 | 1.166 | 1.057 | 1.095 | 1.110  | 3.78  |
| 13) Ethanol               |                |       | 0.065 | 0.043 | 0.051 | 0.027 | 0.029 | 0.043# | 36.98 |
| 14) T Bromoethene         |                |       | 0.420 | 0.445 | 0.403 | 0.371 | 0.393 | 0.407  | 6.93  |
| 15) T Acetone             |                |       | 1.405 | 1.301 | 1.256 | 0.991 | 1.051 | 1.201  | 14.50 |
| 16) T 1,3-Butadiene       |                |       | 0.552 | 0.589 | 0.545 | 0.494 | 0.515 | 0.539  | 6.74  |
| 17) tert-Butyl alc...     |                |       | 1.527 | 1.559 | 1.503 | 1.399 | 1.404 | 1.478  | 4.91  |
| 18) T 1,1-Dichloroet...   |                |       | 0.520 | 0.517 | 0.514 | 0.458 | 0.492 | 0.501  | 5.18  |
| 19) T Isopropyl Alcohol   |                |       | 0.864 | 0.731 | 0.714 | 0.621 | 0.631 | 0.712  | 13.77 |
| 20) T Methylene Chlo...   |                |       | 0.586 | 0.503 | 0.478 | 0.390 | 0.416 | 0.475  | 16.27 |
| 21) T Allyl Chloride      |                |       | 0.897 | 0.823 | 0.847 | 0.792 | 0.799 | 0.832  | 5.06  |
| 22) T trans-1,2-Dich...   |                |       | 0.549 | 0.583 | 0.595 | 0.540 | 0.556 | 0.565  | 4.13  |
| 23) T Vinyl Acetate       |                |       | 0.873 | 0.475 | 0.543 | 0.538 | 0.549 | 0.595  | 26.54 |
| 24) T 1,1-Dichloroet...   |                |       | 1.165 | 1.099 | 1.100 | 1.016 | 1.083 | 1.093  | 4.84  |
| 25) T Ethyl Acetate       |                |       | 3.219 | 3.352 | 3.399 | 3.094 | 3.131 | 3.239  | 4.13  |
| 26) T Hexane              |                |       | 1.265 | 1.249 | 1.388 | 1.261 | 1.242 | 1.281  | 4.71  |
| 27) T Carbon Disulfide    |                |       | 1.210 | 1.256 | 1.304 | 1.258 | 1.311 | 1.268  | 3.22  |
| 28) T Methyl tert-Bu...   |                |       | 1.043 | 1.187 | 1.007 | 0.774 | 0.885 | 0.979  | 16.08 |
| 29) T Chloroform          |                |       | 2.101 | 2.060 | 2.105 | 1.911 | 1.947 | 2.025  | 4.45  |
| 30) T Cyclohexane         |                |       | 1.037 | 1.193 | 1.145 | 1.082 | 1.098 | 1.111  | 5.41  |
| 31) T cis-1,2-Dichlo...   |                |       | 1.406 | 1.397 | 1.390 | 1.272 | 1.279 | 1.349  | 4.98  |
| 32) T 1,1,1-Trichlor...   | 1.937          | 1.841 | 1.942 | 2.010 | 1.956 | 1.905 | 1.973 | 1.938  | 2.76  |
| -----                     |                |       |       |       |       |       |       |        |       |
| 33) I 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |       |
| 34) T 2-Butanone          |                |       | 0.649 | 0.646 | 0.679 | 0.602 | 0.605 | 0.636  | 5.13  |
| 35) T Carbon Tetrach...   | 0.605          | 0.608 | 0.584 | 0.616 | 0.657 | 0.649 | 0.677 | 0.628  | 5.32  |
| 36) T Benzene             |                |       | 0.926 | 0.949 | 0.949 | 0.882 | 0.879 | 0.917  | 3.78  |
| 37) T 1,2-Dichloroet...   |                |       | 0.539 | 0.516 | 0.517 | 0.493 | 0.510 | 0.515  | 3.23  |
| 38) T Trichloroethene     | 0.286          | 0.427 | 0.381 | 0.374 | 0.373 | 0.354 | 0.353 | 0.364  | 11.62 |
| 39) T 1,2-Dichloropr...   |                |       | 0.349 | 0.321 | 0.329 | 0.305 | 0.304 | 0.322  | 5.81  |

|                                                  |   |                   |       |       |       |       |       |       |       |       |       |
|--------------------------------------------------|---|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ |   |                   |       |       |       |       |       |       |       |       |       |
| Method File : VL011425AIR.M                      |   |                   |       |       |       |       |       |       |       |       |       |
| 40)                                              | T | 1,4-Dioxane       |       |       | 0.187 | 0.162 | 0.161 | 0.147 | 0.155 | 0.162 | 9.21  |
| 41)                                              | T | Tetrahydrofuran   |       |       | 0.333 | 0.344 | 0.358 | 0.348 | 0.346 | 0.346 | 2.53  |
| 42)                                              | T | Bromodichlorom... |       |       | 0.700 | 0.659 | 0.703 | 0.684 | 0.707 | 0.691 | 2.84  |
| 43)                                              |   | Methyl Methacr... |       |       | 0.340 | 0.336 | 0.349 | 0.338 | 0.341 | 0.341 | 1.41  |
| 44)                                              | T | 2,2,4-Trimethy... |       |       | 1.450 | 1.501 | 1.566 | 1.457 | 1.444 | 1.484 | 3.45  |
| 45)                                              | T | t-1,3-Dichloro... |       |       | 0.300 | 0.292 | 0.319 | 0.338 | 0.346 | 0.319 | 7.38  |
| 46)                                              | T | cis-1,3-Dichlo... |       |       | 0.371 | 0.391 | 0.439 | 0.446 | 0.447 | 0.419 | 8.43  |
| 47)                                              | T | 1,1,2-Trichlor... |       |       | 0.340 | 0.345 | 0.350 | 0.333 | 0.336 | 0.341 | 2.06  |
| 48)                                              | T | Dibromochlorom... |       |       | 0.490 | 0.489 | 0.541 | 0.545 | 0.566 | 0.526 | 6.64  |
| 49)                                              | T | Bromoform         |       |       | 0.379 | 0.394 | 0.439 | 0.460 | 0.488 | 0.432 | 10.53 |
| 50)                                              | T | 4-Methyl-2-Pen... |       |       | 0.892 | 0.870 | 0.899 | 0.833 | 0.846 | 0.868 | 3.29  |
| 51)                                              | T | 2-Hexanone        |       |       | 0.622 | 0.640 | 0.739 | 0.652 | 0.683 | 0.667 | 6.91  |
| 52)                                              | T | Tetrachloroethene | 0.320 | 0.348 | 0.317 | 0.329 | 0.330 | 0.292 | 0.291 | 0.318 | 6.46  |
| 53)                                              | T | Toluene           |       |       | 0.934 | 0.996 | 1.048 | 1.011 | 1.008 | 0.999 | 4.14  |
| 54)                                              | T | 1,2-Dibromoethane |       | 0.440 | 0.488 | 0.468 | 0.494 | 0.454 | 0.470 | 0.469 | 4.32  |
| -----ISTD-----                                   |   |                   |       |       |       |       |       |       |       |       |       |
| 55)                                              | I | Chlorobenzene-d5  |       |       |       |       |       |       |       |       |       |
| 56)                                              |   | 1,1,1,2-Tetrac... |       |       | 0.502 | 0.514 | 0.510 | 0.481 | 0.488 | 0.499 | 2.86  |
| 57)                                              | T | Chlorobenzene     |       |       | 0.986 | 0.968 | 0.977 | 0.848 | 0.832 | 0.922 | 8.18  |
| 58)                                              | T | Ethyl Benzene     |       |       | 1.507 | 1.563 | 1.653 | 1.551 | 1.541 | 1.563 | 3.49  |
| 59)                                              | T | m/p-Xylene        |       |       | 1.186 | 1.265 | 1.355 | 1.223 | 1.234 | 1.253 | 5.10  |
| 60)                                              | T | o-Xylene          |       |       | 1.179 | 1.241 | 1.348 | 1.224 | 1.224 | 1.243 | 5.06  |
| 61)                                              | T | Styrene           |       |       | 0.516 | 0.515 | 0.576 | 0.587 | 0.595 | 0.558 | 7.02  |
| 62)                                              |   | Isopropylbenzene  |       |       | 1.927 | 1.925 | 2.066 | 1.854 | 1.848 | 1.924 | 4.56  |
| 63)                                              | T | 1,1,2,2-Tetrac... | 0.756 |       | 0.816 | 0.845 | 0.858 | 0.751 | 0.741 | 0.795 | 6.52  |
| 64)                                              |   | n-propylbenzene   |       |       | 0.481 | 0.495 | 0.521 | 0.469 | 0.464 | 0.486 | 4.78  |
| 65)                                              |   | tert-Butylbenzene |       |       | 1.746 | 1.782 | 1.919 | 1.675 | 1.645 | 1.753 | 6.12  |
| 66)                                              | T | Benzyl Chloride   |       |       | 0.102 | 0.093 | 0.113 | 0.115 | 0.119 | 0.109 | 9.71  |
| 67)                                              |   | sec-Butylbenzene  |       |       | 2.389 | 2.457 | 2.681 | 2.299 | 2.246 | 2.414 | 7.04  |
| 68)                                              | S | 1-Bromo-4-Fluo... | 0.783 | 0.785 | 0.784 | 0.792 | 0.795 | 0.782 | 0.792 | 0.788 | 0.65  |
| 69)                                              |   | p-Isopropyltol... |       |       | 1.852 | 2.013 | 2.256 | 1.927 | 1.892 | 1.988 | 8.11  |
| 70)                                              |   | n-Butylbenzene    |       |       | 1.867 | 2.048 | 2.206 | 1.898 | 1.840 | 1.972 | 7.80  |
| 71)                                              |   | 2-Chlorotoluene   |       |       | 1.394 | 1.410 | 1.537 | 1.389 | 1.385 | 1.423 | 4.54  |
| 72)                                              | T | 4-Ethyltoluene    |       |       | 1.442 | 1.447 | 1.610 | 1.466 | 1.472 | 1.487 | 4.67  |
| 73)                                              | T | 1,3,5-Trimethy... |       |       | 1.222 | 1.360 | 1.448 | 1.263 | 1.275 | 1.313 | 6.88  |
| 74)                                              | T | 1,2,4-Trimethy... |       |       | 1.359 | 1.456 | 1.607 | 1.346 | 1.344 | 1.422 | 7.97  |
| 75)                                              | T | 1,3-Dichlorobe... |       |       | 0.881 | 0.884 | 0.903 | 0.776 | 0.771 | 0.843 | 7.61  |
| 76)                                              | T | 1,4-Dichlorobe... |       |       | 0.830 | 0.859 | 0.889 | 0.769 | 0.777 | 0.825 | 6.29  |
| 77)                                              | T | 1,2-Dichlorobe... |       |       | 0.863 | 0.902 | 0.909 | 0.757 | 0.745 | 0.835 | 9.43  |
| 78)                                              | T | Hexachloro-1,3... |       |       | 0.747 | 0.742 | 0.772 | 0.586 | 0.582 | 0.686 | 13.66 |
| 79)                                              | T | Naphthalene       |       | 0.978 | 1.479 | 1.682 | 1.941 | 1.255 | 1.259 | 1.432 | 24.01 |
| 80)                                              | T | Naphthalene,2-... |       |       | 0.572 | 0.724 | 1.151 | 0.463 | 0.485 | 0.679 | 41.70 |
| 81)                                              | T | 1,2,4-Trichlor... |       |       | 0.745 | 0.738 | 0.819 | 0.598 | 0.596 | 0.699 | 14.10 |

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041889.D  
 Acq On : 14 Jan 2025 12:55  
 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 01/15/2025  
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.797 | 49   | 152325   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.975 | 114  | 449256   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.894 | 117  | 400269   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95    | 313194   | 9.934    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.300% |

#### Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 197959 | 9.541  | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 202651 | 9.323  | ppbv   | 100    |
| 4) Chloromethane              | 1.538 | 50  | 74977  | 9.608  | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.583 | 62  | 71006  | 8.984  | ppbv   | 100    |
| 6) Bromomethane               | 1.674 | 94  | 34817  | 9.243  | ppbv   | 100    |
| 7) Chloroethane               | 1.709 | 64  | 29349  | 9.544  | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 166754 | 9.196  | ppbv   | 100    |
| 9) Propene                    | 1.486 | 41  | 86544  | 9.665  | ppbv   | 100    |
| 10) Heptane                   | 5.001 | 43  | 233062 | 9.738  | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.884 | 101 | 203374 | 9.423  | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 160993 | 9.517  | ppbv   | 100    |
| 13) Ethanol                   | 1.725 | 45  | 4155   | 6.335  | ppbv   | 98     |
| 14) Bromoethene               | 1.787 | 108 | 56447  | 9.114  | ppbv   | 100    |
| 15) Acetone                   | 1.842 | 43  | 151022 | 8.255  | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.612 | 39  | 75244  | 9.163  | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.046 | 59  | 213109 | 9.464  | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.039 | 96  | 69825  | 9.158  | ppbv   | 100    |
| 19) Isopropyl Alcohol         | 1.890 | 45  | 94532  | 8.714  | ppbv   | 100    |
| 20) Methylene Chloride        | 2.068 | 84  | 59427  | 8.219  | ppbv   | 100    |
| 21) Allyl Chloride            | 2.101 | 41  | 120681 | 9.526  | ppbv   | 100    |
| 22) trans-1,2-Dichloroethene  | 2.347 | 96  | 82326  | 9.568  | ppbv   | 100    |
| 23) Vinyl Acetate             | 2.470 | 43  | 81885  | 10.281 | ppbv   | 100    |
| 24) 1,1-Dichloroethane        | 2.418 | 63  | 154838 | 9.303  | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.845 | 43  | 471257 | 9.552  | ppbv   | 100    |
| 26) Hexane                    | 2.835 | 57  | 192009 | 9.841  | ppbv   | 100    |
| 27) Carbon Disulfide          | 2.156 | 76  | 191567 | 9.921  | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 2.450 | 73  | 117898 | 7.905  | ppbv   | 100    |
| 29) Chloroform                | 2.858 | 83  | 291118 | 9.438  | ppbv   | 100    |
| 30) Cyclohexane               | 3.868 | 84  | 164788 | 9.737  | ppbv   | 100    |
| 31) cis-1,2-Dichloroethene    | 2.729 | 61  | 193774 | 9.432  | ppbv   | 100    |
| 32) 1,1,1-Trichloroethane     | 3.379 | 97  | 290126 | 9.830  | ppbv   | 100    |
| 34) 2-Butanone                | 2.567 | 43  | 270263 | 9.459  | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.777 | 117 | 291448 | 10.309 | ppbv   | 100    |
| 36) Benzene                   | 3.671 | 78  | 396344 | 9.619  | ppbv   | 100    |
| 37) 1,2-Dichloroethane        | 3.230 | 62  | 221352 | 9.565  | ppbv   | 100    |
| 38) Trichloroethene           | 4.564 | 130 | 159253 | 9.736  | ppbv   | 100    |
| 39) 1,2-Dichloropropane       | 4.331 | 63  | 137090 | 9.484  | ppbv   | 100    |
| 40) 1,4-Dioxane               | 4.606 | 88  | 66200  | 9.075  | ppbv # | 94     |
| 41) Tetrahydrofuran           | 3.065 | 42  | 156141 | 10.023 | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.509 | 83  | 307176 | 9.900  | ppbv   | 100    |
| 43) Methyl Methacrylate       | 4.897 | 69  | 152001 | 9.930  | ppbv   | 100    |
| 44) 2,2,4-Trimethylpentane    | 4.658 | 57  | 654395 | 9.819  | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 6.435 | 75  | 151920 | 10.603 | ppbv   | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041889.D  
 Acq On : 14 Jan 2025 12:55  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Jan 14 21:20:11 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Tue Jan 14 16:31:18 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
 Supervised By : Mahesh Dadoda 01/15/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.622  | 75   | 200330   | 10.649 | ppbv   | 100      |
| 47) 1,1,2-Trichloroethane     | 6.600  | 97   | 149634   | 9.766  | ppbv   | 100      |
| 48) Dibromochloromethane      | 7.402  | 129  | 245066   | 10.368 | ppbv   | 100      |
| 49) Bromoform                 | 9.496  | 173  | 206751   | 10.649 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.778  | 43   | 374267   | 9.615  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.454  | 43   | 292941   | 9.775  | ppbv # | 100      |
| 52) Tetrachloroethene         | 8.241  | 164  | 131334   | 9.193  | ppbv   | 100      |
| 53) Toluene                   | 6.952  | 91   | 454085   | 10.116 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.668  | 107  | 203859   | 9.679  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.940  | 131  | 192449   | 9.637  | ppbv   | 99       |
| 57) Chlorobenzene             | 8.937  | 112  | 339570   | 9.197  | ppbv   | 100      |
| 58) Ethyl Benzene             | 9.367  | 91   | 620719   | 9.923  | ppbv   | 100      |
| 59) m/p-Xylene                | 9.564  | 91   | 979297m  | 19.504 | ppbv   |          |
| 60) o-Xylene                  | 9.979  | 91   | 490108   | 9.848  | ppbv   | 100      |
| 61) Styrene                   | 9.885  | 104  | 234901   | 10.522 | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.552 | 105  | 742261   | 9.638  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.976  | 83   | 300600   | 9.596  | ppbv   | 100      |
| 64) n-propylbenzene           | 11.002 | 120  | 187706   | 9.646  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.542 | 119  | 670259   | 9.550  | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.626 | 91   | 46008    | 10.591 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 11.778 | 105  | 920046   | 9.521  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.937 | 119  | 771465   | 9.694  | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.293 | 91   | 759785   | 9.627  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.914 | 91   | 556170   | 9.763  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.137 | 105  | 586667   | 9.855  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.215 | 105  | 505443   | 9.614  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.549 | 105  | 538665   | 9.461  | ppbv   | 100      |
| 75) 1,3-Dichlorobenzene       | 11.620 | 146  | 310421   | 9.201  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.684 | 146  | 307758   | 9.324  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.960 | 146  | 303196   | 9.068  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 234457   | 8.543  | ppbv   | 100      |
| 79) Naphthalene               | 13.526 | 128  | 502354   | 8.764  | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 185336   | 6.819  | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.452 | 180  | 239317   | 8.553  | ppbv   | 100      |

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



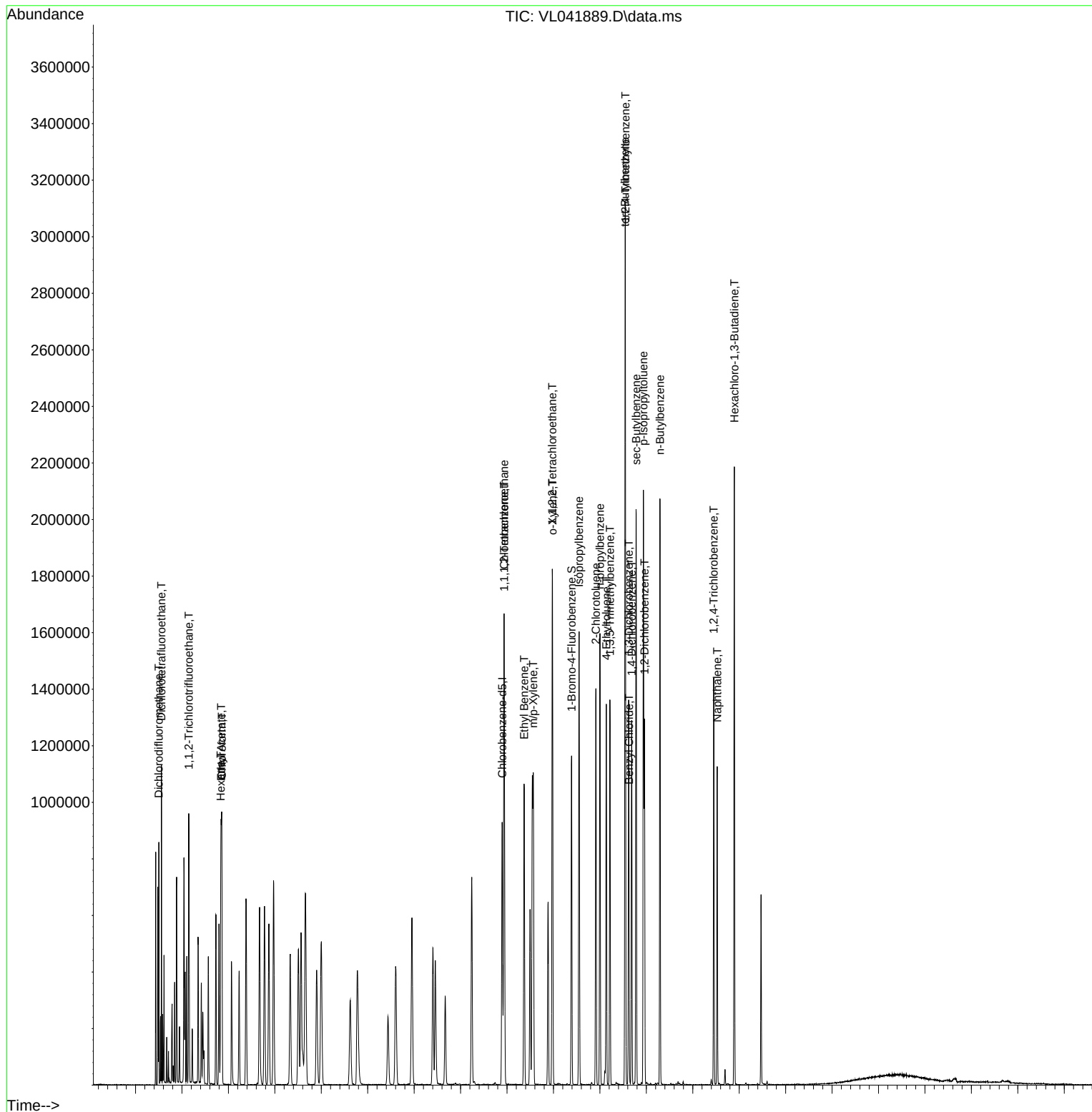
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
Data File : VL041889.D  
Acq On : 14 Jan 2025 12:55  
Operator : SY/MD  
Sample : VSTDICCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Quant Time: Jan 14 21:20:11 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Tue Jan 14 16:31:18 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025  
Supervised By :Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041890.D  
 Acq On : 14 Jan 2025 13:28  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Jan 14 21:20:29 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Tue Jan 14 16:31:18 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
 Supervised By : Mahesh Dadoda 01/15/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.797 | 49   | 150761   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.971 | 114  | 452131   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.894 | 117  | 394865   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95    | 313784   | 10.089   | ppbv       | 0.00 |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | = 100.900% |      |

|                               |       |     |        |        |        |     |
|-------------------------------|-------|-----|--------|--------|--------|-----|
| Target Compounds              |       |     |        | Qvalue |        |     |
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 40991  | 1.996  | ppbv   | 98  |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 44207  | 2.055  | ppbv   | 99  |
| 4) Chloromethane              | 1.538 | 50  | 15833  | 2.050  | ppbv   | 93  |
| 5) Vinyl Chloride             | 1.583 | 62  | 15137  | 1.935  | ppbv   | 99  |
| 6) Bromomethane               | 1.673 | 94  | 7486   | 2.008  | ppbv   | 91  |
| 7) Chloroethane               | 1.709 | 64  | 6303   | 2.071  | ppbv # | 84  |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 36941  | 2.058  | ppbv   | 99  |
| 9) Propene                    | 1.486 | 41  | 18248  | 2.059  | ppbv   | 95  |
| 10) Heptane                   | 5.001 | 43  | 49302  | 2.081  | ppbv   | 97  |
| 11) Trichlorofluoromethane    | 1.884 | 101 | 43266  | 2.025  | ppbv   | 97  |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 35162  | 2.100  | ppbv   | 97  |
| 13) Ethanol                   | 1.725 | 45  | 1534   | 2.363  | ppbv   | 84  |
| 14) Bromoethene               | 1.787 | 108 | 12163  | 1.984  | ppbv # | 95  |
| 15) Acetone                   | 1.842 | 43  | 37867  | 2.091  | ppbv   | 99  |
| 16) 1,3-Butadiene             | 1.612 | 39  | 16446  | 2.024  | ppbv   | 100 |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 45305  | 2.033  | ppbv   | 99  |
| 18) 1,1-Dichloroethene        | 2.039 | 96  | 15508  | 2.055  | ppbv   | 97  |
| 19) Isopropyl Alcohol         | 1.894 | 45  | 21530  | 2.005  | ppbv   | 94  |
| 20) Methylene Chloride        | 2.068 | 84  | 14399  | 2.012  | ppbv   | 95  |
| 21) Allyl Chloride            | 2.104 | 41  | 25533  | 2.036  | ppbv   | 97  |
| 22) trans-1,2-Dichloroethene  | 2.350 | 96  | 17951  | 2.108  | ppbv   | 83  |
| 23) Vinyl Acetate             | 2.470 | 43  | 16358  | 2.075  | ppbv   | 99  |
| 24) 1,1-Dichloroethane        | 2.418 | 63  | 33175  | 2.014  | ppbv   | 99  |
| 25) Ethyl Acetate             | 2.848 | 43  | 102475 | 2.099  | ppbv   | 99  |
| 26) Hexane                    | 2.835 | 57  | 41844  | 2.167  | ppbv   | 99  |
| 27) Carbon Disulfide          | 2.156 | 76  | 39306  | 2.057  | ppbv # | 70  |
| 28) Methyl tert-Butyl Ether   | 2.454 | 73  | 30355  | 2.056  | ppbv   | 96  |
| 29) Chloroform                | 2.858 | 83  | 63457  | 2.079  | ppbv   | 94  |
| 30) Cyclohexane               | 3.874 | 84  | 34518  | 2.061  | ppbv   | 97  |
| 31) cis-1,2-Dichloroethene    | 2.729 | 61  | 41921  | 2.062  | ppbv   | 89  |
| 32) 1,1,1-Trichloroethane     | 3.382 | 97  | 58965  | 2.019  | ppbv   | 98  |
| 34) 2-Butanone                | 2.570 | 43  | 61381  | 2.135  | ppbv   | 99  |
| 35) Carbon Tetrachloride      | 3.777 | 117 | 59430  | 2.089  | ppbv   | 95  |
| 36) Benzene                   | 3.670 | 78  | 85859  | 2.070  | ppbv   | 96  |
| 37) 1,2-Dichloroethane        | 3.230 | 62  | 46786  | 2.009  | ppbv   | 100 |
| 38) Trichloroethene           | 4.564 | 130 | 33773  | 2.052  | ppbv   | 98  |
| 39) 1,2-Dichloropropane       | 4.334 | 63  | 29723  | 2.043  | ppbv   | 96  |
| 40) 1,4-Dioxane               | 4.619 | 88  | 14566m | 1.984  | ppbv   |     |
| 41) Tetrahydrofuran           | 3.072 | 42  | 32358  | 2.064  | ppbv   | 96  |
| 42) Bromodichloromethane      | 4.509 | 83  | 63611  | 2.037  | ppbv   | 99  |
| 43) Methyl Methacrylate       | 4.900 | 69  | 31519  | 2.046  | ppbv   | 99  |
| 44) 2,2,4-Trimethylpentane    | 4.658 | 57  | 141602 | 2.111  | ppbv   | 100 |
| 45) t-1,3-Dichloropropene     | 6.435 | 75  | 28818  | 1.999  | ppbv   | 97  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041890.D  
 Acq On : 14 Jan 2025 13:28  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Jan 14 21:20:29 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Tue Jan 14 16:31:18 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
 Supervised By : Mahesh Dadoda 01/15/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.625  | 75   | 39668    | 2.095 | ppbv   | 94       |
| 47) 1,1,2-Trichloroethane     | 6.600  | 97   | 31694m   | 2.055 | ppbv   |          |
| 48) Dibromochloromethane      | 7.406  | 129  | 48894    | 2.055 | ppbv   | 99       |
| 49) Bromoform                 | 9.496  | 173  | 39710    | 2.032 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.784  | 43   | 81330    | 2.076 | ppbv   | 98       |
| 51) 2-Hexanone                | 7.457  | 43   | 66831    | 2.216 | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.241  | 164  | 29814    | 2.074 | ppbv   | 94       |
| 53) Toluene                   | 6.952  | 91   | 94741    | 2.097 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.671  | 107  | 44636    | 2.106 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.940  | 131  | 40249    | 2.043 | ppbv   | 93       |
| 57) Chlorobenzene             | 8.933  | 112  | 77180    | 2.119 | ppbv   | 94       |
| 58) Ethyl Benzene             | 9.367  | 91   | 130554   | 2.116 | ppbv   | 98       |
| 59) m/p-Xylene                | 9.561  | 91   | 214076m  | 4.322 | ppbv   |          |
| 60) o-Xylene                  | 9.975  | 91   | 106458   | 2.168 | ppbv   | 99       |
| 61) Styrene                   | 9.885  | 104  | 45490    | 2.065 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.552 | 105  | 163135   | 2.147 | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 9.975  | 83   | 67775    | 2.193 | ppbv   | 99       |
| 64) n-propylbenzene           | 11.001 | 120  | 41184    | 2.145 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.542 | 119  | 151534   | 2.189 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.626 | 91   | 8925     | 2.083 | ppbv   | 97       |
| 67) sec-Butylbenzene          | 11.778 | 105  | 211759   | 2.221 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.937 | 119  | 178172   | 2.270 | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.293 | 91   | 174217   | 2.238 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.914 | 91   | 121418   | 2.161 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.137 | 105  | 127115   | 2.164 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.215 | 105  | 114342   | 2.205 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.548 | 105  | 126939   | 2.260 | ppbv # | 89       |
| 75) 1,3-Dichlorobenzene       | 11.616 | 146  | 71332    | 2.143 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.684 | 146  | 70219    | 2.156 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.960 | 146  | 71818    | 2.177 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.892 | 225  | 60984    | 2.253 | ppbv   | 99       |
| 79) Naphthalene               | 13.526 | 128  | 153268   | 2.710 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 90910    | 3.391 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.452 | 180  | 64653    | 2.342 | ppbv   | 98       |

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

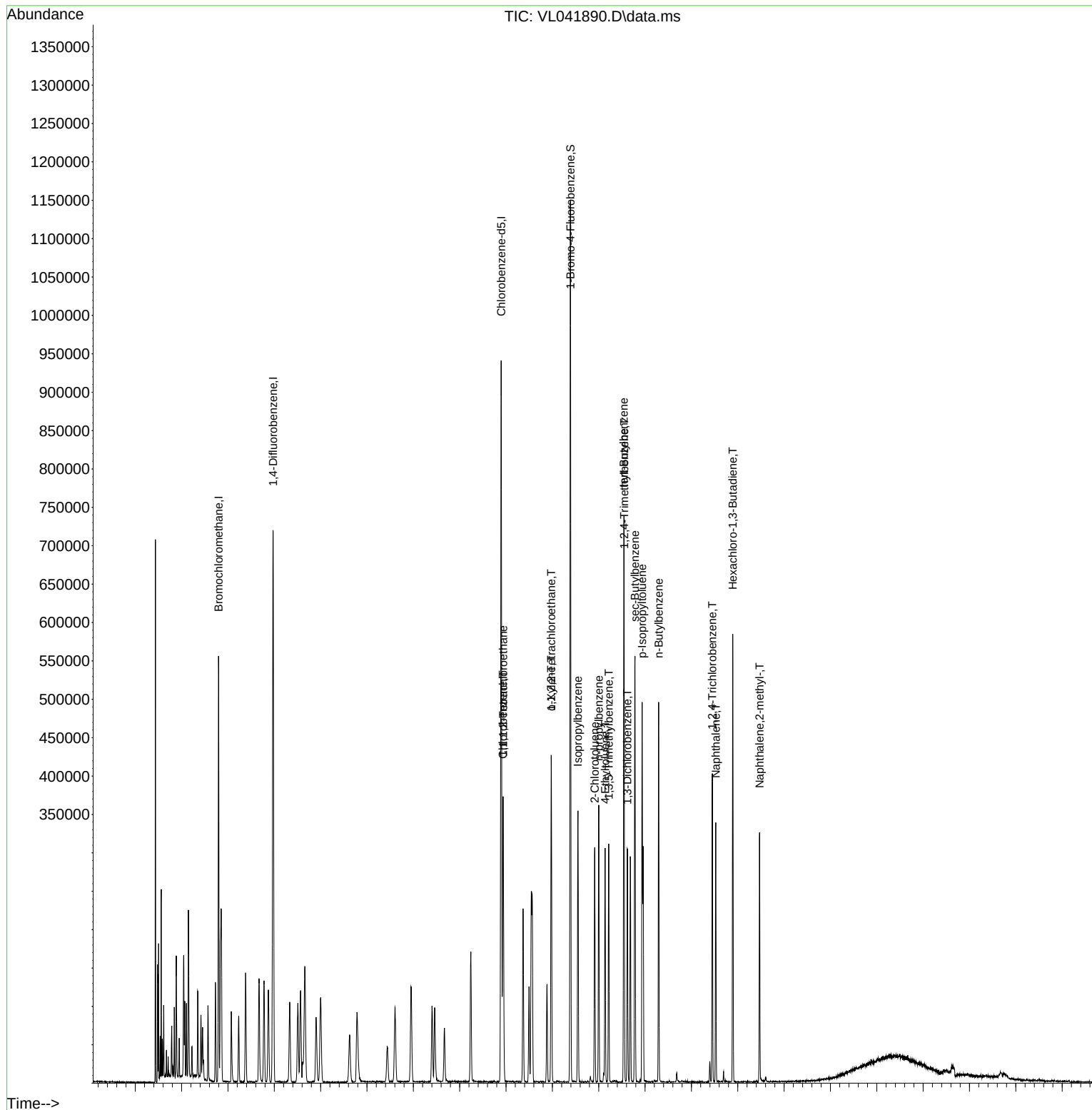
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
Data File : VL041890.D  
Acq On : 14 Jan 2025 13:28  
Operator : SY/MD  
Sample : VSTDICC002  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Quant Time: Jan 14 21:20:29 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Tue Jan 14 16:31:18 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025  
Supervised By :Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041891.D  
 Acq On : 14 Jan 2025 13:59  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Jan 14 21:20:45 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Tue Jan 14 16:31:18 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
 Supervised By : Mahesh Dadoda 01/15/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Bromochloromethane         | 2.797  | 49    | 151226   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.972  | 114   | 453418   | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5          | 8.895  | 117   | 393836   | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.387 | 95    | 312013   | 10.058   | ppbv       | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | = 100.600% |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 21262    | 1.032    | ppbv       | 95       |
| 3) Chlorodifluoromethane      | 1.479  | 51    | 23396    | 1.084    | ppbv       | 100      |
| 4) Chloromethane              | 1.534  | 50    | 7546     | 0.974    | ppbv       | 94       |
| 5) Vinyl Chloride             | 1.583  | 62    | 8031     | 1.023    | ppbv       | 97       |
| 6) Bromomethane               | 1.674  | 94    | 4139     | 1.107    | ppbv #     | 81       |
| 7) Chloroethane               | 1.709  | 64    | 3093     | 1.013    | ppbv       | 92       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 18122    | 1.007    | ppbv       | 100      |
| 9) Propene                    | 1.486  | 41    | 8719     | 0.981    | ppbv       | 93       |
| 10) Heptane                   | 5.001  | 43    | 24438    | 1.029    | ppbv       | 96       |
| 11) Trichlorofluoromethane    | 1.884  | 101   | 21425    | 1.000    | ppbv       | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 17187    | 1.023    | ppbv       | 95       |
| 13) Ethanol                   | 1.725  | 45    | 650      | 0.998    | ppbv #     | 29       |
| 14) Bromoethene               | 1.787  | 108   | 6736     | 1.096    | ppbv #     | 88       |
| 15) Acetone                   | 1.842  | 43    | 19681    | 1.084    | ppbv       | 95       |
| 16) 1,3-Butadiene             | 1.612  | 39    | 8901     | 1.092    | ppbv       | 98       |
| 17) tert-Butyl alcohol        | 2.049  | 59    | 23571    | 1.054    | ppbv       | 95       |
| 18) 1,1-Dichloroethene        | 2.039  | 96    | 7819m    | 1.033    | ppbv       |          |
| 19) Isopropyl Alcohol         | 1.894  | 45    | 11054    | 1.026    | ppbv #     | 32       |
| 20) Methylene Chloride        | 2.065  | 84    | 7608     | 1.060    | ppbv #     | 89       |
| 21) Allyl Chloride            | 2.101  | 41    | 12451    | 0.990    | ppbv       | 98       |
| 22) trans-1,2-Dichloroethene  | 2.347  | 96    | 8819     | 1.032    | ppbv       | 96       |
| 23) Vinyl Acetate             | 2.470  | 43    | 7181     | 0.908    | ppbv #     | 93       |
| 24) 1,1-Dichloroethane        | 2.415  | 63    | 16623    | 1.006    | ppbv       | 97       |
| 25) Ethyl Acetate             | 2.845  | 43    | 50690    | 1.035    | ppbv       | 98       |
| 26) Hexane                    | 2.836  | 57    | 18893    | 0.975    | ppbv       | 86       |
| 27) Carbon Disulfide          | 2.156  | 76    | 18993    | 0.991    | ppbv #     | 23       |
| 28) Methyl tert-Butyl Ether   | 2.450  | 73    | 17955    | 1.213    | ppbv       | 98       |
| 29) Chloroform                | 2.858  | 83    | 31155    | 1.017    | ppbv       | 97       |
| 30) Cyclohexane               | 3.871  | 84    | 18048    | 1.074    | ppbv       | 96       |
| 31) cis-1,2-Dichloroethene    | 2.729  | 61    | 21124    | 1.036    | ppbv       | 99       |
| 32) 1,1,1-Trichloroethane     | 3.383  | 97    | 30396    | 1.037    | ppbv       | 98       |
| 34) 2-Butanone                | 2.570  | 43    | 29280    | 1.015    | ppbv       | 99       |
| 35) Carbon Tetrachloride      | 3.774  | 117   | 27946    | 0.979    | ppbv       | 96       |
| 36) Benzene                   | 3.671  | 78    | 43023    | 1.035    | ppbv       | 93       |
| 37) 1,2-Dichloroethane        | 3.230  | 62    | 23402    | 1.002    | ppbv       | 98       |
| 38) Trichloroethene           | 4.564  | 130   | 16954m   | 1.027    | ppbv       |          |
| 39) 1,2-Dichloropropane       | 4.331  | 63    | 14570    | 0.999    | ppbv       | 98       |
| 40) 1,4-Dioxane               | 4.613  | 88    | 7345m    | 0.998    | ppbv       |          |
| 41) Tetrahydrofuran           | 3.075  | 42    | 15580m   | 0.991    | ppbv       |          |
| 42) Bromodichloromethane      | 4.509  | 83    | 29893m   | 0.955    | ppbv       |          |
| 43) Methyl Methacrylate       | 4.901  | 69    | 15222    | 0.985    | ppbv       | 95       |
| 44) 2,2,4-Trimethylpentane    | 4.661  | 57    | 68050    | 1.012    | ppbv       | 98       |
| 45) t-1,3-Dichloropropene     | 6.438  | 75    | 13220    | 0.914    | ppbv       | 92       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041891.D  
 Acq On : 14 Jan 2025 13:59  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
 Supervised By : Mahesh Dadoda 01/15/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.626  | 75   | 17749    | 0.935 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 6.603  | 97   | 15658m   | 1.013 | ppbv   |          |
| 48) Dibromochloromethane      | 7.402  | 129  | 22169    | 0.929 | ppbv   | 100      |
| 49) Bromoform                 | 9.497  | 173  | 17876    | 0.912 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.787  | 43   | 39436m   | 1.004 | ppbv   |          |
| 51) 2-Hexanone                | 7.464  | 43   | 28999    | 0.959 | ppbv # | 95       |
| 52) Tetrachloroethene         | 8.244  | 164  | 14903    | 1.034 | ppbv # | 80       |
| 53) Toluene                   | 6.956  | 91   | 45140m   | 0.996 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.668  | 107  | 21202    | 0.997 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.937  | 131  | 20255    | 1.031 | ppbv   | 94       |
| 57) Chlorobenzene             | 8.933  | 112  | 38141    | 1.050 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.367  | 91   | 61537    | 1.000 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.561  | 91   | 99618m   | 2.016 | ppbv   |          |
| 60) o-Xylene                  | 9.972  | 91   | 48888    | 0.998 | ppbv   | 98       |
| 61) Styrene                   | 9.882  | 104  | 20285    | 0.923 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.549 | 105  | 75801    | 1.000 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83   | 33289    | 1.080 | ppbv   | 97       |
| 64) n-propylbenzene           | 11.002 | 120  | 19511    | 1.019 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.539 | 119  | 70183    | 1.016 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.626 | 91   | 3681m    | 0.861 | ppbv   |          |
| 67) sec-Butylbenzene          | 11.778 | 105  | 96749    | 1.018 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 11.937 | 119  | 79283    | 1.013 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.290 | 91   | 80664    | 1.039 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.911 | 91   | 55540    | 0.991 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.134 | 105  | 56973    | 0.973 | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene    | 11.215 | 105  | 53550    | 1.035 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.545 | 105  | 57352    | 1.024 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 11.617 | 146  | 34810    | 1.049 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.681 | 146  | 33822    | 1.041 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 11.960 | 146  | 35516    | 1.080 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.892 | 225  | 29210    | 1.082 | ppbv   | 99       |
| 79) Naphthalene               | 13.523 | 128  | 66232    | 1.174 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.468 | 142  | 28506    | 1.066 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.452 | 180  | 29053    | 1.055 | ppbv   | 99       |

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

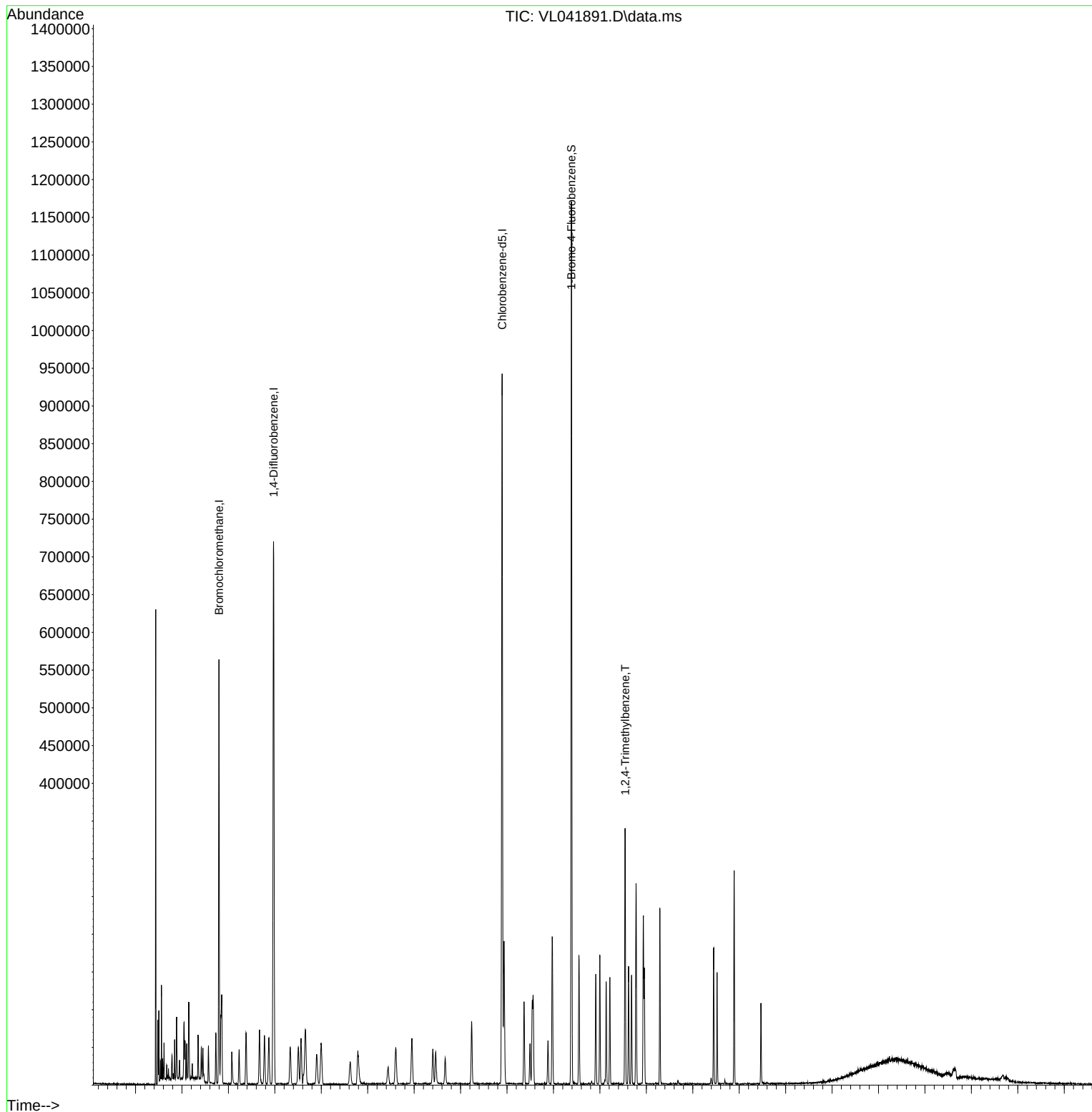
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Data File : VL041891.D  
Acq On : 14 Jan 2025 13:59  
Operator : SY/MD  
Sample : VSTDICC001  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Quant Time: Jan 14 21:20:45 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Jan 14 16:31:18 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
Supervised By : Mahesh Dadoda 01/15/2025





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041892.D  
 Acq On : 14 Jan 2025 14:30  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Jan 14 21:21:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
 Supervised By : Mahesh Dadoda 01/15/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 146186   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.968 | 114  | 430874   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.891 | 117  | 379402   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95    | 297462   | 9.954    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.500% |

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 10599  | 0.532 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 10582  | 0.507 | ppbv   | 98     |
| 4) Chloromethane              | 1.534 | 50  | 3990   | 0.533 | ppbv   | 98     |
| 5) Vinyl Chloride             | 1.580 | 62  | 4097   | 0.540 | ppbv   | 94     |
| 6) Bromomethane               | 1.670 | 94  | 1852   | 0.512 | ppbv # | 78     |
| 7) Chloroethane               | 1.706 | 64  | 1532   | 0.519 | ppbv # | 77     |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 9372   | 0.539 | ppbv   | 95     |
| 9) Propene                    | 1.486 | 41  | 4690   | 0.546 | ppbv   | 85     |
| 10) Heptane                   | 4.988 | 43  | 11230  | 0.489 | ppbv   | 95     |
| 11) Trichlorofluoromethane    | 1.881 | 101 | 10873  | 0.525 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 8027   | 0.494 | ppbv   | 90     |
| 13) Ethanol                   | 1.725 | 45  | 478m   | 0.759 | ppbv   |        |
| 14) Bromoethene               | 1.784 | 108 | 3071   | 0.517 | ppbv # | 94     |
| 15) Acetone                   | 1.839 | 43  | 10273  | 0.585 | ppbv   | 99     |
| 16) 1,3-Butadiene             | 1.612 | 39  | 4038   | 0.512 | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 2.046 | 59  | 11158  | 0.516 | ppbv # | 94     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 3803   | 0.520 | ppbv   | 95     |
| 19) Isopropyl Alcohol         | 1.891 | 45  | 6317   | 0.607 | ppbv # | 32     |
| 20) Methylene Chloride        | 2.065 | 84  | 4286   | 0.618 | ppbv   | 93     |
| 21) Allyl Chloride            | 2.101 | 41  | 6553   | 0.539 | ppbv   | 96     |
| 22) trans-1,2-Dichloroethene  | 2.347 | 96  | 4015   | 0.486 | ppbv   | 89     |
| 23) Vinyl Acetate             | 2.467 | 43  | 6381m  | 0.835 | ppbv   |        |
| 24) 1,1-Dichloroethane        | 2.415 | 63  | 8512   | 0.533 | ppbv   | 97     |
| 25) Ethyl Acetate             | 2.845 | 43  | 23529  | 0.497 | ppbv   | 97     |
| 26) Hexane                    | 2.829 | 57  | 9246m  | 0.494 | ppbv   |        |
| 27) Carbon Disulfide          | 2.153 | 76  | 8847   | 0.477 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 2.447 | 73  | 7621   | 0.532 | ppbv   | 97     |
| 29) Chloroform                | 2.855 | 83  | 15360  | 0.519 | ppbv   | 92     |
| 30) Cyclohexane               | 3.871 | 84  | 7579   | 0.467 | ppbv   | 92     |
| 31) cis-1,2-Dichloroethene    | 2.726 | 61  | 10275  | 0.521 | ppbv # | 89     |
| 32) 1,1,1-Trichloroethane     | 3.379 | 97  | 14198  | 0.501 | ppbv   | 98     |
| 34) 2-Butanone                | 2.567 | 43  | 13981  | 0.510 | ppbv   | 94     |
| 35) Carbon Tetrachloride      | 3.774 | 117 | 12590  | 0.464 | ppbv   | 89     |
| 36) Benzene                   | 3.667 | 78  | 19954  | 0.505 | ppbv   | 95     |
| 37) 1,2-Dichloroethane        | 3.227 | 62  | 11613  | 0.523 | ppbv   | 97     |
| 38) Trichloroethene           | 4.561 | 130 | 8199   | 0.523 | ppbv # | 89     |
| 39) 1,2-Dichloropropane       | 4.324 | 63  | 7526m  | 0.543 | ppbv   |        |
| 40) 1,4-Dioxane               | 4.616 | 88  | 4031m  | 0.576 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.072 | 42  | 7183   | 0.481 | ppbv   | 94     |
| 42) Bromodichloromethane      | 4.499 | 83  | 15081m | 0.507 | ppbv   |        |
| 43) Methyl Methacrylate       | 4.891 | 69  | 7332m  | 0.499 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.645 | 57  | 31243  | 0.489 | ppbv   | 95     |
| 45) t-1,3-Dichloropropene     | 6.428 | 75  | 6465m  | 0.470 | ppbv   |        |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041892.D  
 Acq On : 14 Jan 2025 14:30  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Jan 14 21:21:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
 Supervised By : Mahesh Dadoda 01/15/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.609  | 75   | 7986m    | 0.443 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.597  | 97   | 7324     | 0.498 | ppbv # | 84       |
| 48) Dibromochloromethane      | 7.393  | 129  | 10548m   | 0.465 | ppbv   |          |
| 49) Bromoform                 | 9.493  | 173  | 8162     | 0.438 | ppbv   | 97       |
| 50) 4-Methyl-2-Pentanone      | 5.794  | 43   | 19221m   | 0.515 | ppbv   |          |
| 51) 2-Hexanone                | 7.454  | 43   | 13390    | 0.466 | ppbv # | 97       |
| 52) Tetrachloroethene         | 8.238  | 164  | 6821m    | 0.498 | ppbv   |          |
| 53) Toluene                   | 6.946  | 91   | 20118    | 0.467 | ppbv   | 96       |
| 54) 1,2-Dibromoethane         | 7.665  | 107  | 10511    | 0.520 | ppbv   | 89       |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 9524     | 0.503 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.930  | 112  | 18701    | 0.534 | ppbv # | 90       |
| 58) Ethyl Benzene             | 9.364  | 91   | 28584    | 0.482 | ppbv # | 88       |
| 59) m/p-Xylene                | 9.558  | 91   | 45003m   | 0.946 | ppbv   |          |
| 60) o-Xylene                  | 9.972  | 91   | 22370    | 0.474 | ppbv   | 97       |
| 61) Styrene                   | 9.879  | 104  | 9788     | 0.463 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.545 | 105  | 36561    | 0.501 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.969  | 83   | 15485    | 0.521 | ppbv   | 98       |
| 64) n-propylbenzene           | 10.995 | 120  | 9128     | 0.495 | ppbv   | 93       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 33122    | 0.498 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.620 | 91   | 1935     | 0.470 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.775 | 105  | 45326    | 0.495 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.931 | 119  | 35136    | 0.466 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.287 | 91   | 35409    | 0.473 | ppbv   | 96       |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 26436    | 0.490 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 27363    | 0.485 | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 23183    | 0.465 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene    | 11.545 | 105  | 25777    | 0.478 | ppbv   | 89       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 16708    | 0.522 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 15738    | 0.503 | ppbv   | 96       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 16364    | 0.516 | ppbv   | 93       |
| 78) Hexachloro-1,3-Butadiene  | 13.892 | 225  | 14162    | 0.544 | ppbv   | 96       |
| 79) Naphthalene               | 13.520 | 128  | 28052    | 0.516 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.468 | 142  | 10859    | 0.422 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 14136    | 0.533 | ppbv   | 95       |

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

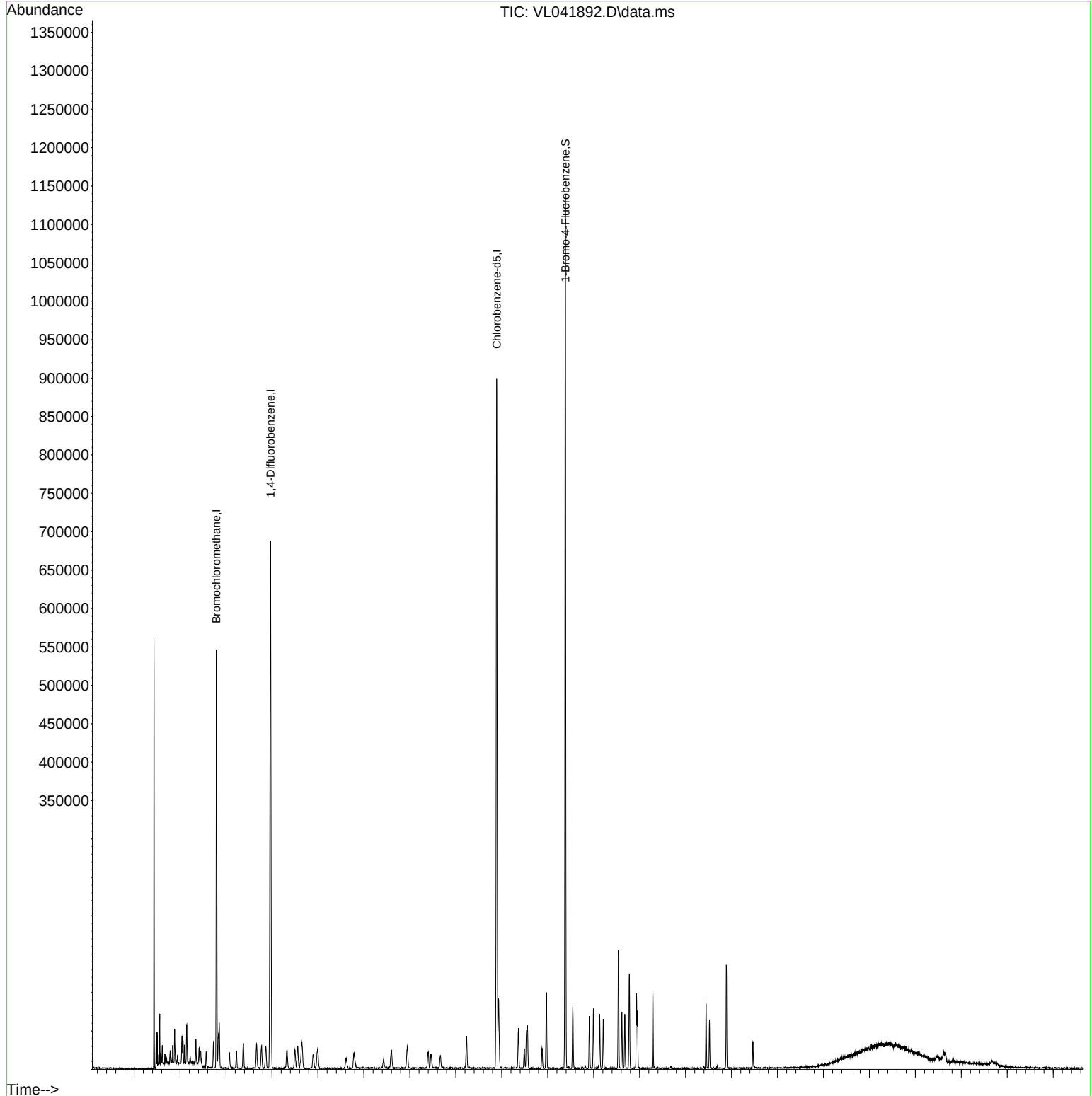
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Data File : VL041892.D  
Acq On : 14 Jan 2025 14:30  
Operator : SY/MD  
Sample : VSTDICC0.5  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Quant Time: Jan 14 21:21:01 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Jan 14 16:31:18 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
Supervised By : Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041893.D  
 Acq On : 14 Jan 2025 15:01  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Quant Time: Jan 14 22:42:51 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Tue Jan 14 16:31:18 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
 Supervised By : Mahesh Dadoda 01/15/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.793  | 49    | 143362   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.968  | 114   | 425675   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.891  | 117   | 372545   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.387 | 95    | 292283   | 9.961    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.600%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.583  | 62    | 828      | 0.111    | ppbv   | 96       |
| 32) 1,1,1-Trichloroethane     | 3.383  | 97    | 2640m    | 0.095    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.768  | 117   | 2587m    | 0.097    | ppbv   |          |
| 38) Trichloroethene           | 4.557  | 130   | 1816m    | 0.117    | ppbv   |          |
| 52) Tetrachloroethene         | 8.234  | 164   | 1480m    | 0.109    | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.668  | 107   | 1872m    | 0.094    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.976  | 83    | 2816     | 0.097    | ppbv   | 95       |
| 79) Naphthalene               | 13.520 | 128   | 3643     | 0.068    | ppbv # | 96       |

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

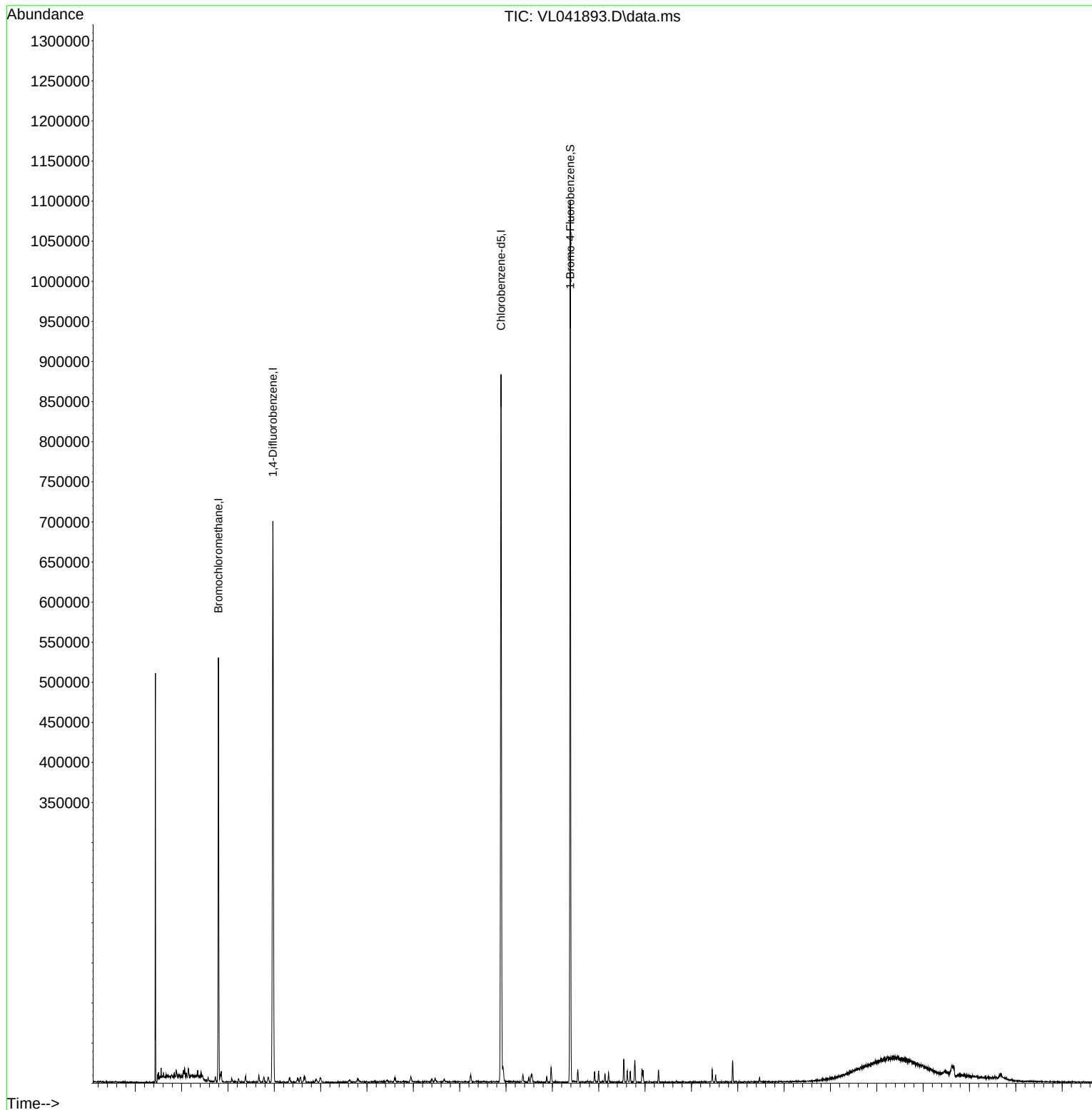
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Data File : VL041893.D  
Acq On : 14 Jan 2025 15:01  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Quant Time: Jan 14 22:42:51 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Jan 14 16:31:18 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
Supervised By : Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
Data File : VL041894.D  
Acq On : 14 Jan 2025 15:32  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Quant Time: Jan 14 21:21:32 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
QLast Update : Tue Jan 14 16:31:18 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025  
Supervised By :Mahesh Dadoda 01/15/2025

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.793  | 49    | 141659   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.972  | 114   | 424686   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.891  | 117   | 367402   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95    | 287792   | 9.945    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 99.500%  |
| Target Compounds            |        |       |          |          |        |          |
| 5) Vinyl Chloride           | 1.586  | 62    | 214m     | 0.029    | ppbv   | Qvalue   |
| 32) 1,1,1-Trichloroethane   | 3.379  | 97    | 823      | 0.030    | ppbv   | 85       |
| 35) Carbon Tetrachloride    | 3.774  | 117   | 771      | 0.029    | ppbv # | 56       |
| 38) Trichloroethene         | 4.557  | 130   | 364m     | 0.024    | ppbv   |          |
| 52) Tetrachloroethene       | 8.250  | 164   | 408m     | 0.030    | ppbv   |          |

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

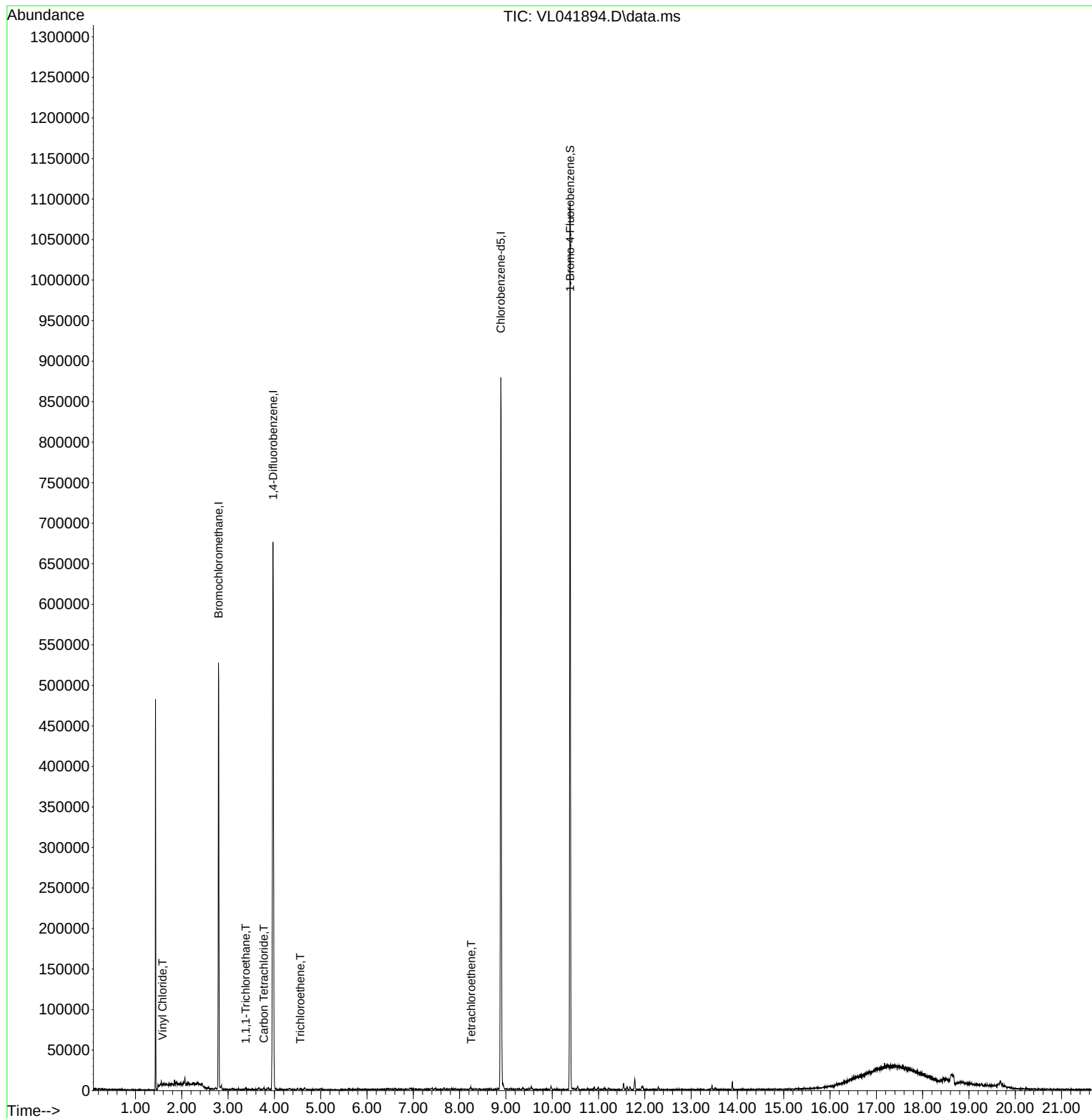
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
Data File : VL041894.D  
Acq On : 14 Jan 2025 15:32  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Quant Time: Jan 14 21:21:32 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Jan 14 16:31:18 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
Supervised By : Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041895.D  
 Acq On : 14 Jan 2025 16:05  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Quant Time: Jan 14 21:21:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Manual Integrations  
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Reviewed By : Semsettin Yesilyurt 01/15/2025  
 Supervised By : Mahesh Dadoda 01/15/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Bromochloromethane         | 2.793  | 49    | 141652   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.968  | 114   | 419859   | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5          | 8.895  | 117   | 383799   | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.387 | 95    | 304042   | 10.058   | ppbv       | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | = 100.600% |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 275248   | 14.266   | ppbv       | 100      |
| 3) Chlorodifluoromethane      | 1.479  | 51    | 285437   | 14.121   | ppbv       | 98       |
| 4) Chloromethane              | 1.534  | 50    | 106071   | 14.617   | ppbv       | 98       |
| 5) Vinyl Chloride             | 1.583  | 62    | 104404   | 14.204   | ppbv       | 98       |
| 6) Bromomethane               | 1.670  | 94    | 49415    | 14.106   | ppbv       | 91       |
| 7) Chloroethane               | 1.709  | 64    | 41130    | 14.383   | ppbv       | 100      |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 244666   | 14.510   | ppbv       | 100      |
| 9) Propene                    | 1.486  | 41    | 116343   | 13.972   | ppbv       | 99       |
| 10) Heptane                   | 4.998  | 43    | 326897   | 14.688   | ppbv       | 98       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 299656   | 14.930   | ppbv       | 97       |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 232607   | 14.787   | ppbv       | 100      |
| 13) Ethanol                   | 1.725  | 45    | 6109     | 10.016   | ppbv       | 83       |
| 14) Bromoethene               | 1.784  | 108   | 83586    | 14.513   | ppbv       | 98       |
| 15) Acetone                   | 1.839  | 43    | 223353   | 13.128   | ppbv       | 99       |
| 16) 1,3-Butadiene             | 1.612  | 39    | 109420   | 14.329   | ppbv       | 99       |
| 17) tert-Butyl alcohol        | 2.046  | 59    | 298424   | 14.252   | ppbv       | 99       |
| 18) 1,1-Dichloroethene        | 2.039  | 96    | 104645   | 14.759   | ppbv       | 92       |
| 19) Isopropyl Alcohol         | 1.890  | 45    | 134050   | 13.288   | ppbv       | 98       |
| 20) Methylene Chloride        | 2.065  | 84    | 88425    | 13.151   | ppbv       | 98       |
| 21) Allyl Chloride            | 2.101  | 41    | 169875   | 14.419   | ppbv       | 96       |
| 22) trans-1,2-Dichloroethene  | 2.347  | 96    | 118169   | 14.768   | ppbv       | 97       |
| 23) Vinyl Acetate             | 2.470  | 43    | 116632   | 15.747   | ppbv       | 98       |
| 24) 1,1-Dichloroethane        | 2.415  | 63    | 230015   | 14.862   | ppbv       | 99       |
| 25) Ethyl Acetate             | 2.842  | 43    | 665170   | 14.499   | ppbv       | 100      |
| 26) Hexane                    | 2.836  | 57    | 263948   | 14.547   | ppbv       | 97       |
| 27) Carbon Disulfide          | 2.156  | 76    | 278476   | 15.509   | ppbv       | 99       |
| 28) Methyl tert-Butyl Ether   | 2.447  | 73    | 187986   | 13.555   | ppbv       | 98       |
| 29) Chloroform                | 2.858  | 83    | 413733   | 14.424   | ppbv       | 98       |
| 30) Cyclohexane               | 3.868  | 84    | 233398   | 14.830   | ppbv       | 99       |
| 31) cis-1,2-Dichloroethene    | 2.729  | 61    | 271739   | 14.223   | ppbv       | 94       |
| 32) 1,1,1-Trichloroethane     | 3.379  | 97    | 419117   | 15.271   | ppbv       | 99       |
| 34) 2-Butanone                | 2.564  | 43    | 380813   | 14.262   | ppbv       | 99       |
| 35) Carbon Tetrachloride      | 3.774  | 117   | 426619   | 16.146   | ppbv       | 97       |
| 36) Benzene                   | 3.667  | 78    | 553665   | 14.378   | ppbv       | 100      |
| 37) 1,2-Dichloroethane        | 3.227  | 62    | 321362   | 14.859   | ppbv       | 99       |
| 38) Trichloroethene           | 4.564  | 130   | 222328   | 14.543   | ppbv       | 98       |
| 39) 1,2-Dichloropropane       | 4.328  | 63    | 191532   | 14.179   | ppbv       | 98       |
| 40) 1,4-Dioxane               | 4.596  | 88    | 97521    | 14.305   | ppbv #     | 93       |
| 41) Tetrahydrofuran           | 3.062  | 42    | 217707   | 14.953   | ppbv       | 99       |
| 42) Bromodichloromethane      | 4.502  | 83    | 445130   | 15.351   | ppbv       | 95       |
| 43) Methyl Methacrylate       | 4.894  | 69    | 214564   | 14.999   | ppbv       | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.655  | 57    | 909437   | 14.601   | ppbv       | 100      |
| 45) t-1,3-Dichloropropene     | 6.435  | 75    | 218001   | 16.281   | ppbv       | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041895.D  
 Acq On : 14 Jan 2025 16:05  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Quant Time: Jan 14 21:21:42 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Tue Jan 14 16:31:18 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
 Supervised By : Mahesh Dadoda 01/15/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.619  | 75   | 281492   | 16.011 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.597  | 97   | 211658   | 14.782 | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.402  | 129  | 356392   | 16.134 | ppbv   | 100      |
| 49) Bromoform                 | 9.493  | 173  | 307617   | 16.953 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.774  | 43   | 533053   | 14.653 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.451  | 43   | 430297   | 15.363 | ppbv # | 97       |
| 52) Tetrachloroethene         | 8.237  | 164  | 183208   | 13.721 | ppbv   | 96       |
| 53) Toluene                   | 6.949  | 91   | 634515   | 15.126 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.665  | 107  | 295967   | 15.036 | ppbv   | 93       |
| 56) 1,1,1,2-Tetrachloroethane | 8.937  | 131  | 280809   | 14.665 | ppbv   | 98       |
| 57) Chlorobenzene             | 8.933  | 112  | 479092   | 13.533 | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.367  | 91   | 887072   | 14.789 | ppbv   | 100      |
| 59) m/p-Xylene                | 9.565  | 91   | 1420585m | 29.506 | ppbv   |          |
| 60) o-Xylene                  | 9.976  | 91   | 704577   | 14.765 | ppbv   | 100      |
| 61) Styrene                   | 9.882  | 104  | 342490   | 15.999 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.548 | 105  | 1063809  | 14.406 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.976  | 83   | 426347   | 14.194 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.998 | 120  | 266972   | 14.308 | ppbv   | 100      |
| 65) tert-Butylbenzene         | 11.542 | 119  | 947297   | 14.077 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.626 | 91   | 68623    | 16.475 | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.778 | 105  | 1292858  | 13.952 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.937 | 119  | 1089109  | 14.273 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.290 | 91   | 1059002  | 13.994 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.911 | 91   | 797555   | 14.601 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.134 | 105  | 847451   | 14.846 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.215 | 105  | 733759   | 14.556 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.549 | 105  | 773569   | 14.170 | ppbv   | 92       |
| 75) 1,3-Dichlorobenzene       | 11.620 | 146  | 443828   | 13.720 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.681 | 146  | 447164   | 14.129 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.956 | 146  | 429118   | 13.385 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.892 | 225  | 335016   | 12.731 | ppbv   | 100      |
| 79) Naphthalene               | 13.523 | 128  | 724573   | 13.183 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.468 | 142  | 278955   | 10.704 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.452 | 180  | 342977   | 12.784 | ppbv   | 98       |

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



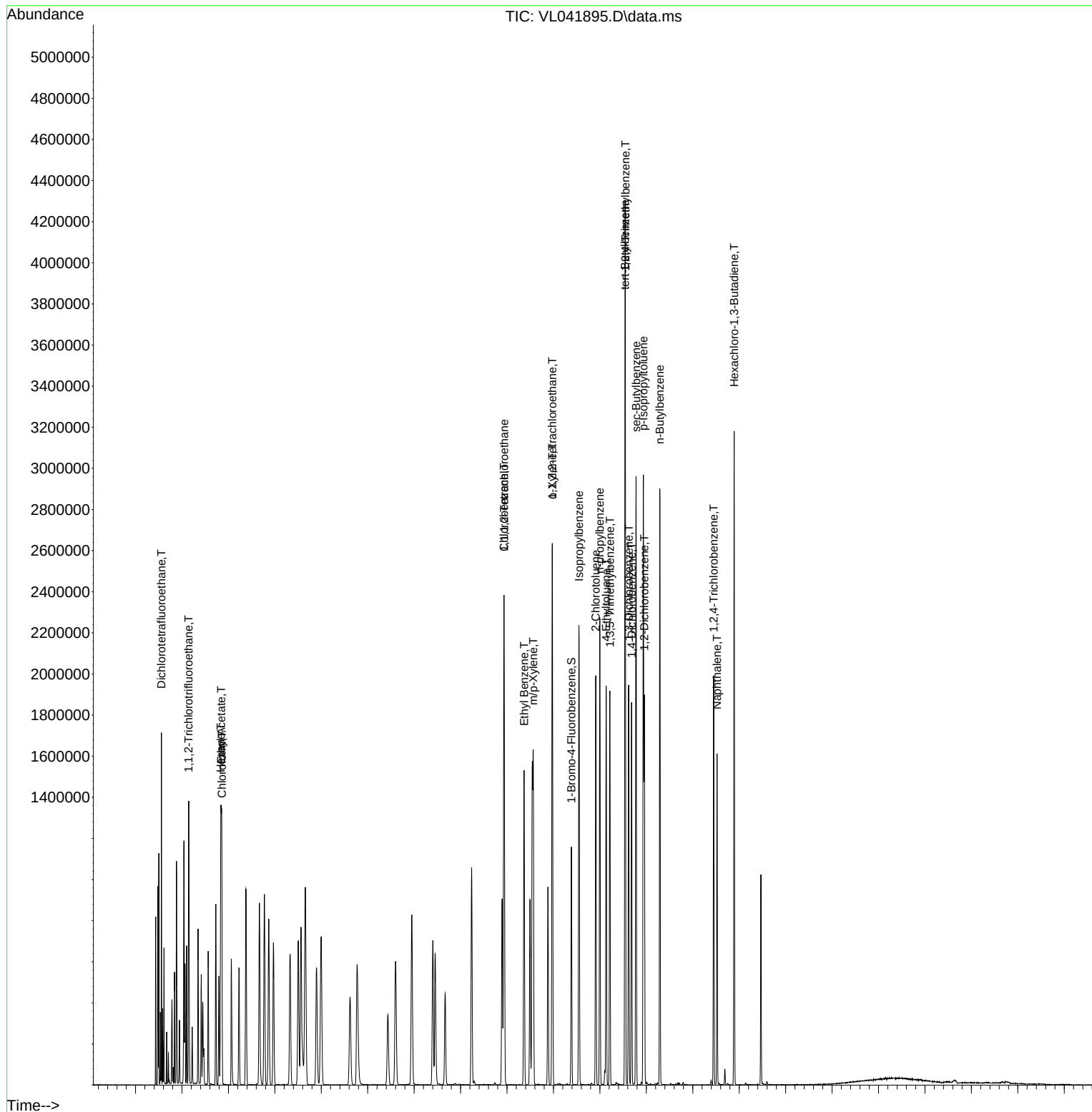
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Data File : VL041895.D  
Acq On : 14 Jan 2025 16:05  
Operator : SY/MD  
Sample : VSTDIC015  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025  
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:42 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Tue Jan 14 16:31:18 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041896.D  
 Acq On : 14 Jan 2025 17:33  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL011425

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
 Supervised By : Mahesh Dadoda 01/15/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.793 | 49   | 141664   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.968 | 114  | 417936   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.891 | 117  | 373391   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 298000 10.133 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

#### Target Compounds

|                                 |       |     |        |        |        | Qvalue |
|---------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane      | 1.502 | 85  | 190925 | 9.894  | ppbv   | 97     |
| 3) Chlorodifluoromethane        | 1.479 | 51  | 200455 | 9.916  | ppbv   | 100    |
| 4) Chloromethane                | 1.534 | 50  | 71767  | 9.889  | ppbv   | 95     |
| 5) Vinyl Chloride               | 1.583 | 62  | 71974  | 9.791  | ppbv   | 94     |
| 6) Bromomethane                 | 1.670 | 94  | 33594  | 9.589  | ppbv   | 96     |
| 7) Chloroethane                 | 1.706 | 64  | 29553  | 10.333 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane    | 1.557 | 85  | 163783 | 9.712  | ppbv   | 99     |
| 9) Propene                      | 1.486 | 41  | 82320  | 9.886  | ppbv   | 99     |
| 10) Heptane                     | 4.998 | 43  | 225230 | 10.119 | ppbv   | 99     |
| 11) Trichlorofluoromethane      | 1.881 | 101 | 198523 | 9.890  | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluoro... | 2.143 | 101 | 159862 | 10.162 | ppbv   | 100    |
| 13) Ethanol                     | 1.725 | 45  | 3780   | 6.197  | ppbv   | 97     |
| 14) Bromoethene                 | 1.784 | 108 | 57260  | 9.941  | ppbv   | 98     |
| 15) Acetone                     | 1.839 | 43  | 150112 | 8.822  | ppbv   | 98     |
| 16) 1,3-Butadiene               | 1.612 | 39  | 73640  | 9.643  | ppbv   | 100    |
| 17) tert-Butyl alcohol          | 2.046 | 59  | 204358 | 9.758  | ppbv   | 98     |
| 18) 1,1-Dichloroethene          | 2.039 | 96  | 71011  | 10.015 | ppbv   | 96     |
| 19) Isopropyl Alcohol           | 1.890 | 45  | 93592  | 9.277  | ppbv   | 97     |
| 20) Methylene Chloride          | 2.065 | 84  | 60115  | 8.940  | ppbv   | 97     |
| 21) Allyl Chloride              | 2.101 | 41  | 118907 | 10.092 | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene    | 2.347 | 96  | 77379  | 9.669  | ppbv   | 96     |
| 23) Vinyl Acetate               | 2.470 | 43  | 80428  | 9.536  | ppbv # | 95     |
| 24) 1,1-Dichloroethane          | 2.415 | 63  | 155440 | 10.042 | ppbv   | 98     |
| 25) Ethyl Acetate               | 2.842 | 43  | 458484 | 9.993  | ppbv   | 100    |
| 26) Hexane                      | 2.832 | 57  | 184436 | 10.164 | ppbv   | 99     |
| 27) Carbon Disulfide            | 2.156 | 76  | 186668 | 10.395 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether     | 2.447 | 73  | 112489 | 8.110  | ppbv   | 99     |
| 29) Chloroform                  | 2.855 | 83  | 282467 | 9.847  | ppbv   | 99     |
| 30) Cyclohexane                 | 3.865 | 84  | 159296 | 10.120 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene      | 2.729 | 61  | 187012 | 9.787  | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane       | 3.376 | 97  | 284661 | 10.371 | ppbv   | 99     |
| 34) 2-Butanone                  | 2.564 | 43  | 261536 | 9.840  | ppbv   | 99     |
| 35) Carbon Tetrachloride        | 3.771 | 117 | 285391 | 10.871 | ppbv   | 96     |
| 36) Benzene                     | 3.667 | 78  | 374271 | 9.764  | ppbv   | 99     |
| 37) 1,2-Dichloroethane          | 3.227 | 62  | 214545 | 9.966  | ppbv   | 100    |
| 38) Trichloroethene             | 4.564 | 130 | 153255 | 10.075 | ppbv   | 95     |
| 39) 1,2-Dichloropropane         | 4.324 | 63  | 130483 | 9.704  | ppbv   | 97     |
| 40) 1,4-Dioxane                 | 4.599 | 88  | 63736  | 9.386  | ppbv # | 99     |
| 41) Tetrahydrofuran             | 3.062 | 42  | 148132 | 10.255 | ppbv   | 98     |
| 42) Bromodichloromethane        | 4.506 | 83  | 299656 | 10.381 | ppbv   | 96     |
| 43) Methyl Methacrylate         | 4.894 | 69  | 145663 | 10.229 | ppbv   | 100    |
| 44) 2,2,4-Trimethylpentane      | 4.654 | 57  | 619804 | 9.997  | ppbv   | 100    |
| 45) t-1,3-Dichloropropene       | 6.428 | 75  | 145145 | 10.889 | ppbv   | 98     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041896.D  
 Acq On : 14 Jan 2025 17:33  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL011425

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025  
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.616  | 75   | 186898   | 10.680 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.596  | 97   | 140891   | 9.886  | ppbv   | 97       |
| 48) Dibromochloromethane      | 7.399  | 129  | 238244   | 10.835 | ppbv   | 100      |
| 49) Bromoform                 | 9.493  | 173  | 201141   | 11.136 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.771  | 43   | 363675   | 10.023 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.451  | 43   | 284058   | 10.189 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.237  | 164  | 127806   | 9.616  | ppbv   | 98       |
| 53) Toluene                   | 6.949  | 91   | 427033   | 10.227 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.665  | 107  | 199339   | 10.175 | ppbv   | 95       |
| 56) 1,1,1,2-Tetrachloroethane | 8.937  | 131  | 188209   | 10.103 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.933  | 112  | 329025   | 9.553  | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.364  | 91   | 601857   | 10.314 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.561  | 91   | 964838m  | 20.628 | ppbv   |          |
| 60) o-Xylene                  | 9.972  | 91   | 480442   | 10.348 | ppbv   | 100      |
| 61) Styrene                   | 9.878  | 104  | 229797   | 11.034 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.548 | 105  | 728189   | 10.136 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83   | 290998   | 9.809  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.998 | 120  | 182397   | 10.048 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.539 | 119  | 657521   | 10.043 | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.623 | 91   | 42509    | 10.490 | ppbv # | 97       |
| 67) sec-Butylbenzene          | 11.778 | 105  | 901260   | 9.997  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.934 | 119  | 745566   | 10.043 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.290 | 91   | 733637   | 9.965  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.911 | 91   | 543858   | 10.234 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.134 | 105  | 568921   | 10.245 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 493388   | 10.061 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.545 | 105  | 528225   | 9.946  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 11.617 | 146  | 304133   | 9.664  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.681 | 146  | 297765   | 9.670  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.956 | 146  | 298039   | 9.555  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.889 | 225  | 228592   | 8.929  | ppbv   | 99       |
| 79) Naphthalene               | 13.523 | 128  | 497063   | 9.295  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.468 | 142  | 187571   | 7.398  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.448 | 180  | 236181   | 9.049  | ppbv   | 99       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041896.D  
 Acq On : 14 Jan 2025 17:33  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL011425

Quant Time: Jan 15 03:23:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Jan 14 23:15:42 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     | 1.362 | 1.348  | 1.0   | 96    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.427 | 1.415  | 0.8   | 99    | 0.00     |
| 4    | Chloromethane               | 0.512 | 0.507  | 1.0   | 96    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.519 | 0.508  | 2.1   | 101   | 0.00     |
| 6 T  | Bromomethane                | 0.247 | 0.237  | 4.0   | 96    | 0.00     |
| 7    | Chloroethane                | 0.202 | 0.209  | -3.5  | 101   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.190 | 1.156  | 2.9   | 98    | 0.00     |
| 9 T  | Propene                     | 0.588 | 0.581  | 1.2   | 95    | 0.00     |
| 10 T | Heptane                     | 1.571 | 1.590  | -1.2  | 97    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.417 | 1.401  | 1.1   | 98    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.110 | 1.128  | -1.6  | 99    | 0.00     |
| 13   | Ethanol                     | 0.043 | 0.027# | 37.2# | 91    | 0.00     |
| 14 T | Bromoethene                 | 0.407 | 0.404  | 0.7   | 101   | 0.00     |
| 15 T | Acetone                     | 1.201 | 1.060  | 11.7  | 99    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.539 | 0.520  | 3.5   | 98    | 0.00     |
| 17   | tert-Butyl alcohol          | 1.478 | 1.443  | 2.4   | 96    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.501 | 0.501  | 0.0   | 102   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.712 | 0.661  | 7.2   | 99    | 0.00     |
| 20 T | Methylene Chloride          | 0.475 | 0.424  | 10.7  | 101   | 0.00     |
| 21 T | Allyl Chloride              | 0.832 | 0.839  | -0.8  | 99    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.565 | 0.546  | 3.4   | 94    | 0.00     |
| 23 T | Vinyl Acetate               | 0.595 | 0.568  | 4.5   | 98    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.093 | 1.097  | -0.4  | 100   | 0.00     |
| 25 T | Ethyl Acetate               | 3.239 | 3.236  | 0.1   | 97    | 0.00     |
| 26 T | Hexane                      | 1.281 | 1.302  | -1.6  | 96    | 0.00     |
| 27 T | Carbon Disulfide            | 1.268 | 1.318  | -3.9  | 97    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.979 | 0.794  | 18.9  | 95    | 0.00     |
| 29 T | Chloroform                  | 2.025 | 1.994  | 1.5   | 97    | 0.00     |
| 30 T | Cyclohexane                 | 1.111 | 1.124  | -1.2  | 97    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.349 | 1.320  | 2.1   | 97    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.938 | 2.009  | -3.7  | 98    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 93    | 0.00     |
| 34 T | 2-Butanone                  | 0.636 | 0.626  | 1.6   | 97    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.628 | 0.683  | -8.8  | 98    | 0.00     |
| 36 T | Benzene                     | 0.917 | 0.896  | 2.3   | 94    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.515 | 0.513  | 0.4   | 97    | 0.00     |
| 38 T | Trichloroethene             | 0.364 | 0.367  | -0.8  | 96    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.322 | 0.312  | 3.1   | 95    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.162 | 0.153  | 5.6   | 96    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.346 | 0.354  | -2.3  | 95    | 0.00     |
| 42 T | Bromodichloromethane        | 0.691 | 0.717  | -3.8  | 98    | 0.00     |
| 43   | Methyl Methacrylate         | 0.341 | 0.349  | -2.3  | 96    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.484 | 1.483  | 0.1   | 95    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.319 | 0.347  | -8.8  | 96    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.419 | 0.447  | -6.7  | 93    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.341 | 0.337  | 1.2   | 94    | 0.00     |
| 48 T | Dibromochloromethane        | 0.526 | 0.570  | -8.4  | 97    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041896.D  
 Acq On : 14 Jan 2025 17:33  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL011425

Quant Time: Jan 15 03:23:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Jan 14 23:15:42 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                 | 0.432 | 0.481 | -11.3 | 97    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.868 | 0.870 | -0.2  | 97    | 0.00     |
| 51 T | 2-Hexanone                | 0.667 | 0.680 | -1.9  | 97    | 0.00     |
| 52 T | Tetrachloroethene         | 0.318 | 0.306 | 3.8   | 97    | 0.00     |
| 53 T | Toluene                   | 0.999 | 1.022 | -2.3  | 94    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.469 | 0.477 | -1.7  | 98    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.499 | 0.504 | -1.0  | 98    | 0.00     |
| 57 T | Chlorobenzene             | 0.922 | 0.881 | 4.4   | 97    | 0.00     |
| 58 T | Ethyl Benzene             | 1.563 | 1.612 | -3.1  | 97    | 0.00     |
| 59 T | m/p-Xylene                | 1.253 | 1.292 | -3.1  | 99    | 0.00     |
| 60 T | o-Xylene                  | 1.243 | 1.287 | -3.5  | 98    | 0.00     |
| 61 T | Styrene                   | 0.558 | 0.615 | -10.2 | 98    | 0.00     |
| 62   | Isopropylbenzene          | 1.924 | 1.950 | -1.4  | 98    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.795 | 0.779 | 2.0   | 97    | 0.00     |
| 64   | n-propylbenzene           | 0.486 | 0.488 | -0.4  | 97    | 0.00     |
| 65   | tert-Butylbenzene         | 1.753 | 1.761 | -0.5  | 98    | 0.00     |
| 66 T | Benzyl Chloride           | 0.109 | 0.114 | -4.6  | 92    | 0.00     |
| 67   | sec-Butylbenzene          | 2.414 | 2.414 | 0.0   | 98    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.788 | 0.798 | -1.3  | 95    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.988 | 1.997 | -0.5  | 97    | 0.00     |
| 70   | n-Butylbenzene            | 1.972 | 1.965 | 0.4   | 97    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.423 | 1.457 | -2.4  | 98    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.487 | 1.524 | -2.5  | 97    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.313 | 1.321 | -0.6  | 98    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.422 | 1.415 | 0.5   | 98    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.843 | 0.815 | 3.3   | 98    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.825 | 0.797 | 3.4   | 97    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.835 | 0.798 | 4.4   | 98    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.686 | 0.612 | 10.8  | 97    | 0.00     |
| 79 T | Naphthalene               | 1.432 | 1.331 | 7.1   | 99    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.679 | 0.502 | 26.1  | 101   | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.699 | 0.633 | 9.4   | 99    | 0.00     |

(#) = Out of Range

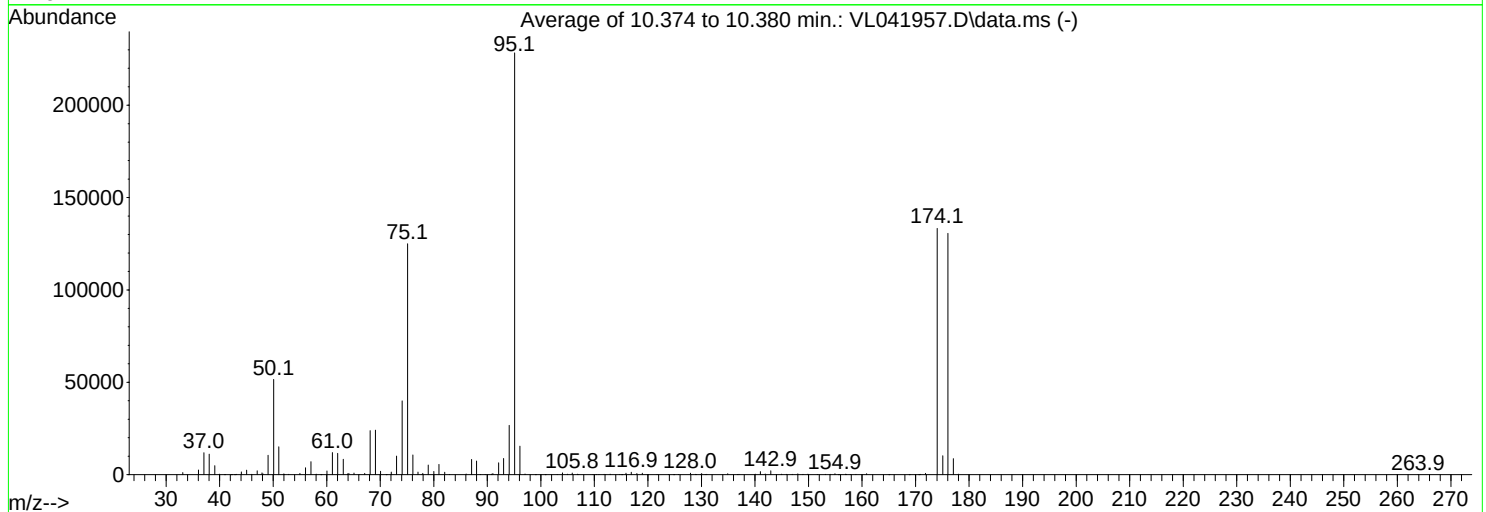
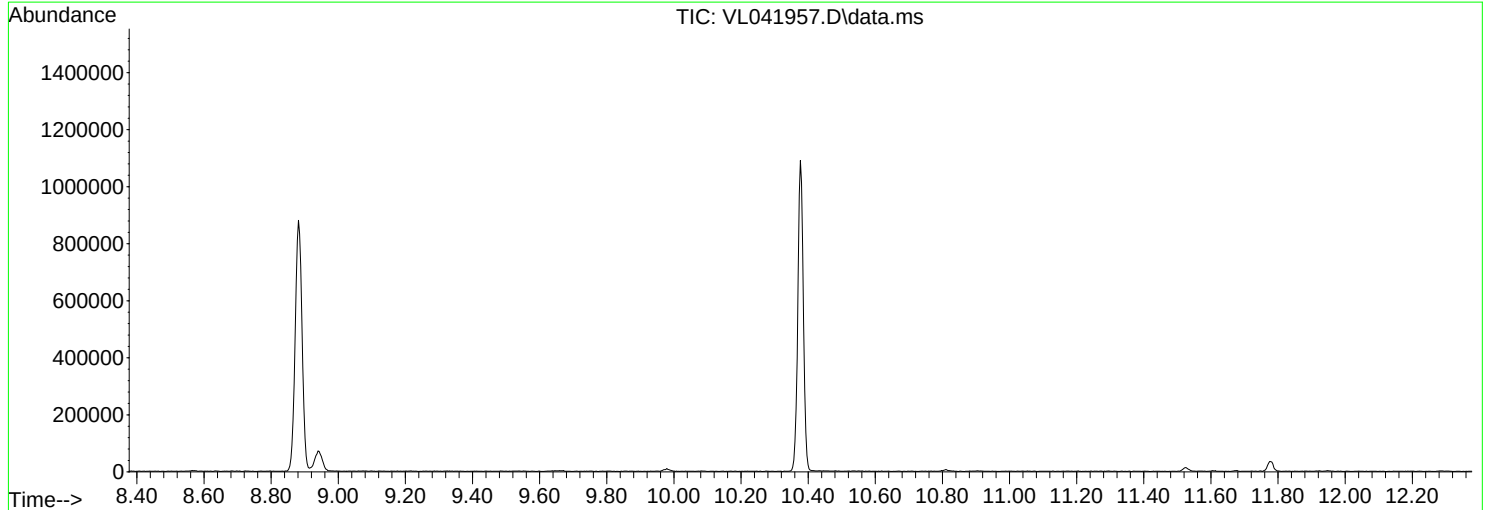
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
Data File : VL041957.D  
Acq On : 03 Feb 2025 09:47  
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\VL011425AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 22.6  | 51539  | PASS      |
| 75     | 95      | 30     | 66     | 54.7  | 125019 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 228352 | PASS      |
| 96     | 95      | 5      | 9      | 6.8   | 15439  | PASS      |
| 173    | 174     | 0.00   | 2      | 0.0   | 0      | PASS      |
| 174    | 95      | 50     | 120    | 58.4  | 133352 | PASS      |
| 175    | 174     | 4      | 9      | 7.7   | 10244  | PASS      |
| 176    | 174     | 93     | 101    | 98.0  | 130661 | PASS      |
| 177    | 176     | 5      | 9      | 6.6   | 8641   | PASS      |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
 Data File : VL041958.D  
 Acq On : 03 Feb 2025 10:48  
 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 02/04/2025  
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:30:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.791  | 49    | 157470   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 429487   | 10.000   | ppbv   | -0.01    |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 371333   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.381 | 95    | 289698   | 9.905    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.100%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 218366   | 10.181   | ppbv   | 100      |
| 3) Chlorodifluoromethane      | 1.477  | 51    | 231387   | 10.298   | ppbv   | 99       |
| 4) Chloromethane              | 1.535  | 50    | 86482    | 10.721   | ppbv   | 97       |
| 5) Vinyl Chloride             | 1.580  | 62    | 83248    | 10.188   | ppbv   | 98       |
| 6) Bromomethane               | 1.667  | 94    | 38248    | 9.822    | ppbv   | 99       |
| 7) Chloroethane               | 1.706  | 64    | 34164    | 10.747   | ppbv   | 99       |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 186350   | 9.941    | ppbv   | 99       |
| 9) Propene                    | 1.483  | 41    | 95902    | 10.361   | ppbv   | 98       |
| 10) Heptane                   | 4.985  | 43    | 266975   | 10.790   | ppbv   | 97       |
| 11) Trichlorofluoromethane    | 1.878  | 101   | 212261   | 9.513    | ppbv   | 97       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 162930   | 9.317    | ppbv   | 99       |
| 13) Ethanol                   | 1.722  | 45    | 4416     | 6.513    | ppbv   | 99       |
| 14) Bromoethene               | 1.784  | 108   | 60620    | 9.468    | ppbv   | 100      |
| 15) Acetone                   | 1.836  | 43    | 176459   | 9.330    | ppbv   | 99       |
| 16) 1,3-Butadiene             | 1.609  | 39    | 86792    | 10.224   | ppbv   | 99       |
| 17) tert-Butyl alcohol        | 2.043  | 59    | 206522   | 8.872    | ppbv   | 99       |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 74437    | 9.444    | ppbv   | 93       |
| 19) Isopropyl Alcohol         | 1.888  | 45    | 101008   | 9.007    | ppbv   | 94       |
| 20) Methylene Chloride        | 2.062  | 84    | 62977    | 8.426    | ppbv   | 95       |
| 21) Allyl Chloride            | 2.098  | 41    | 126741   | 9.677    | ppbv   | 98       |
| 22) trans-1,2-Dichloroethene  | 2.344  | 96    | 86281    | 9.700    | ppbv   | 97       |
| 23) Vinyl Acetate             | 2.467  | 43    | 84390    | 9.001    | ppbv # | 98       |
| 24) 1,1-Dichloroethane        | 2.412  | 63    | 171515   | 9.969    | ppbv   | 100      |
| 25) Ethyl Acetate             | 2.839  | 43    | 552271   | 10.829   | ppbv   | 100      |
| 26) Hexane                    | 2.829  | 57    | 216097   | 10.713   | ppbv   | 95       |
| 27) Carbon Disulfide          | 2.153  | 76    | 200432   | 10.041   | ppbv   | 99       |
| 28) Methyl tert-Butyl Ether   | 2.444  | 73    | 149839   | 9.719    | ppbv   | 100      |
| 29) Chloroform                | 2.852  | 83    | 333879   | 10.471   | ppbv   | 100      |
| 30) Cyclohexane               | 3.862  | 84    | 183180   | 10.470   | ppbv   | 98       |
| 31) cis-1,2-Dichloroethene    | 2.723  | 61    | 208686   | 9.825    | ppbv   | 95       |
| 32) 1,1,1-Trichloroethane     | 3.370  | 97    | 318650   | 10.444   | ppbv   | 99       |
| 34) 2-Butanone                | 2.561  | 43    | 312946   | 11.458   | ppbv   | 99       |
| 35) Carbon Tetrachloride      | 3.765  | 117   | 320703   | 11.888   | ppbv   | 99       |
| 36) Benzene                   | 3.661  | 78    | 444350   | 11.280   | ppbv   | 97       |
| 37) 1,2-Dichloroethane        | 3.221  | 62    | 241263   | 10.905   | ppbv   | 99       |
| 38) Trichloroethene           | 4.551  | 130   | 175365   | 11.218   | ppbv   | 90       |
| 39) 1,2-Dichloropropane       | 4.322  | 63    | 155514   | 11.255   | ppbv   | 98       |
| 40) 1,4-Dioxane               | 4.590  | 88    | 74675    | 10.701   | ppbv # | 97       |
| 41) Tetrahydrofuran           | 3.059  | 42    | 174208   | 11.736   | ppbv   | 98       |
| 42) Bromodichloromethane      | 4.496  | 83    | 344670   | 11.620   | ppbv   | 96       |
| 43) Methyl Methacrylate       | 4.888  | 69    | 156216   | 10.675   | ppbv   | 95       |
| 44) 2,2,4-Trimethylpentane    | 4.645  | 57    | 751181   | 11.790   | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 6.425  | 75    | 148089   | 10.811   | ppbv   | 98       |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
 Data File : VL041958.D  
 Acq On : 03 Feb 2025 10:48  
 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 02/04/2025  
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:30:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.610  | 75   | 202762   | 11.274 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 167097   | 11.410 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.393  | 129  | 269437   | 11.924 | ppbv   | 99       |
| 49) Bromoform                 | 9.487  | 173  | 225054   | 12.125 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.762  | 43   | 428753   | 11.499 | ppbv   | 98       |
| 51) 2-Hexanone                | 7.445  | 43   | 336693   | 11.752 | ppbv # | 96       |
| 52) Tetrachloroethene         | 8.231  | 164  | 139466   | 10.211 | ppbv   | 95       |
| 53) Toluene                   | 6.940  | 91   | 483814   | 11.275 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.659  | 107  | 229203   | 11.384 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.931  | 131  | 220185   | 11.885 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.927  | 112  | 386374   | 11.280 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.358  | 91   | 669174   | 11.531 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.555  | 91   | 1106231m | 23.782 | ppbv   |          |
| 60) o-Xylene                  | 9.969  | 91   | 555194   | 12.025 | ppbv   | 98       |
| 61) Styrene                   | 9.876  | 104  | 246355   | 11.895 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.542 | 105  | 834260   | 11.677 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 362310   | 12.280 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.992 | 120  | 215585   | 11.942 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 746398   | 11.464 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.620 | 91   | 44973    | 11.160 | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 1044912  | 11.655 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.931 | 119  | 867909   | 11.756 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.284 | 91   | 848499   | 11.589 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 615388   | 11.644 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 658660   | 11.926 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 566361   | 11.613 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 616177   | 11.666 | ppbv   | 90       |
| 75) 1,3-Dichlorobenzene       | 11.614 | 146  | 357966   | 11.437 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 352145   | 11.500 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 355386   | 11.457 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 247691   | 9.729  | ppbv   | 99       |
| 79) Naphthalene               | 13.517 | 128  | 553420   | 10.407 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.465 | 142  | 173813   | 6.894  | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.446 | 180  | 251038   | 9.671  | ppbv   | 98       |

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

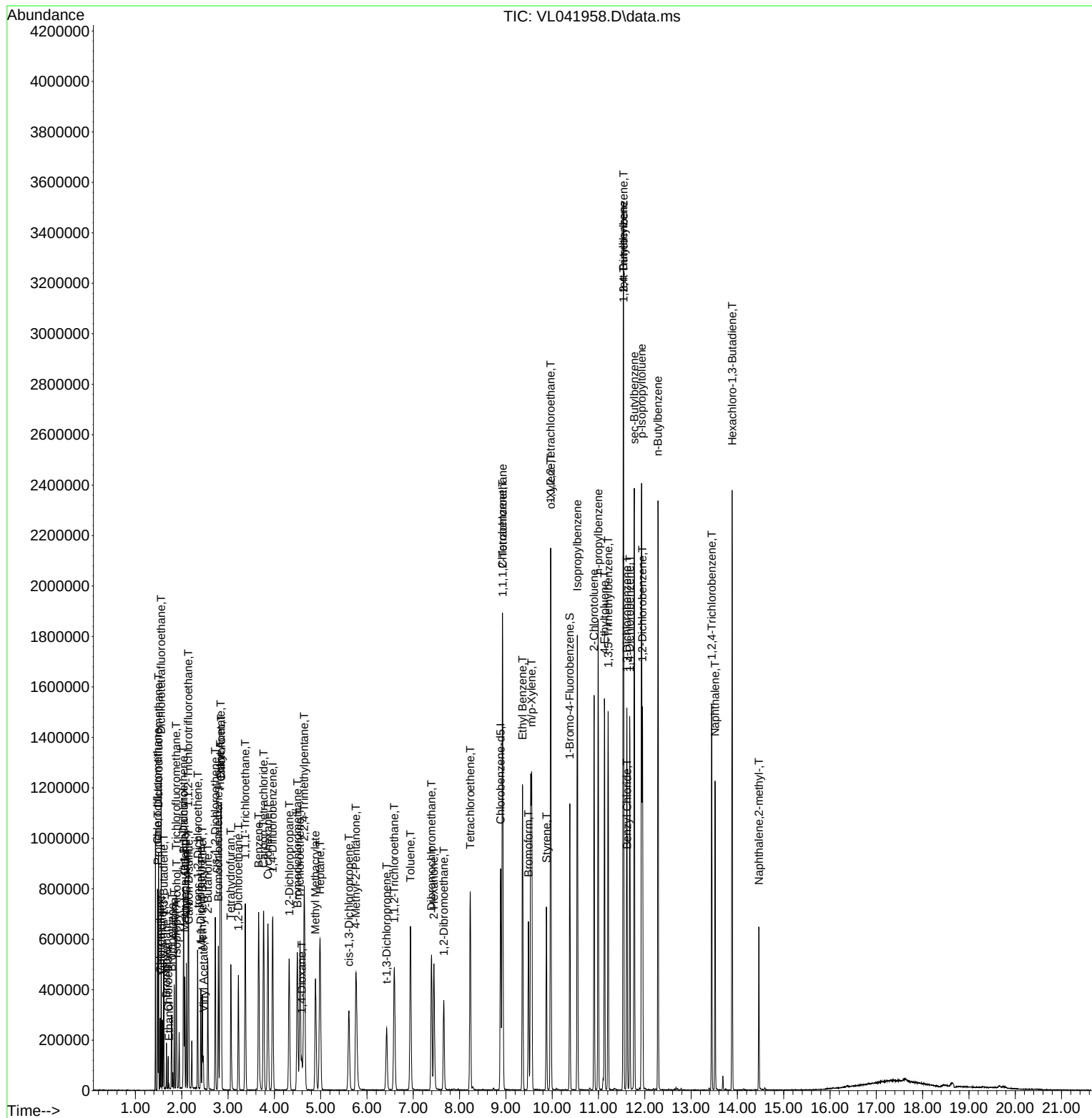
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
Data File : VL041958.D  
Acq On : 03 Feb 2025 10:48  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025  
Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:30:31 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Tue Jan 14 23:15:42 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
Data File : VL041958.D  
Acq On : 03 Feb 2025 10:48  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Feb 04 02:30:31 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Jan 14 23:15:42 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   | 103   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.362 | 1.387  | -1.8  | 110   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.427 | 1.469  | -2.9  | 114   | 0.00     |
| 4    | Chloromethane               | 0.512 | 0.549  | -7.2  | 115   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.519 | 0.529  | -1.9  | 117   | 0.00     |
| 6 T  | Bromomethane                | 0.247 | 0.243  | 1.6   | 110   | 0.00     |
| 7    | Chloroethane                | 0.202 | 0.217  | -7.4  | 116   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.190 | 1.183  | 0.6   | 112   | 0.00     |
| 9 T  | Propene                     | 0.588 | 0.609  | -3.6  | 111   | 0.00     |
| 10 T | Heptane                     | 1.571 | 1.695  | -7.9  | 115   | -0.02    |
| 11 T | Trichlorofluoromethane      | 1.417 | 1.348  | 4.9   | 104   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.110 | 1.035  | 6.8   | 101   | 0.00     |
| 13   | Ethanol                     | 0.043 | 0.028# | 34.9# | 106   | 0.00     |
| 14 T | Bromoethene                 | 0.407 | 0.385  | 5.4   | 107   | 0.00     |
| 15 T | Acetone                     | 1.201 | 1.121  | 6.7   | 117   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.539 | 0.551  | -2.2  | 115   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.478 | 1.312  | 11.2  | 97    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.501 | 0.473  | 5.6   | 107   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.712 | 0.641  | 10.0  | 107   | 0.00     |
| 20 T | Methylene Chloride          | 0.475 | 0.400  | 15.8  | 106   | 0.00     |
| 21 T | Allyl Chloride              | 0.832 | 0.805  | 3.2   | 105   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.565 | 0.548  | 3.0   | 105   | 0.00     |
| 23 T | Vinyl Acetate               | 0.595 | 0.536  | 9.9   | 103   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.093 | 1.089  | 0.4   | 111   | 0.00     |
| 25 T | Ethyl Acetate               | 3.239 | 3.507  | -8.3  | 117   | 0.00     |
| 26 T | Hexane                      | 1.281 | 1.372  | -7.1  | 113   | 0.00     |
| 27 T | Carbon Disulfide            | 1.268 | 1.273  | -0.4  | 105   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.979 | 0.952  | 2.8   | 127   | 0.00     |
| 29 T | Chloroform                  | 2.025 | 2.120  | -4.7  | 115   | 0.00     |
| 30 T | Cyclohexane                 | 1.111 | 1.163  | -4.7  | 111   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.349 | 1.325  | 1.8   | 108   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.938 | 2.024  | -4.4  | 110   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 96    | -0.01    |
| 34 T | 2-Butanone                  | 0.636 | 0.729  | -14.6 | 116   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.628 | 0.747  | -18.9 | 110   | -0.01    |
| 36 T | Benzene                     | 0.917 | 1.035  | -12.9 | 112   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.515 | 0.562  | -9.1  | 109   | 0.00     |
| 38 T | Trichloroethene             | 0.364 | 0.408  | -12.1 | 110   | -0.01    |
| 39 T | 1,2-Dichloropropane         | 0.322 | 0.362  | -12.4 | 113   | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.162 | 0.174  | -7.4  | 113   | -0.02    |
| 41 T | Tetrahydrofuran             | 0.346 | 0.406  | -17.3 | 112   | 0.00     |
| 42 T | Bromodichloromethane        | 0.691 | 0.803  | -16.2 | 112   | -0.01    |
| 43   | Methyl Methacrylate         | 0.341 | 0.364  | -6.7  | 103   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.484 | 1.749  | -17.9 | 115   | -0.01    |
| 45 T | t-1,3-Dichloropropene       | 0.319 | 0.345  | -8.2  | 97    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.419 | 0.472  | -12.6 | 101   | -0.01    |
| 47 T | 1,1,2-Trichloroethane       | 0.341 | 0.389  | -14.1 | 112   | 0.00     |
| 48 T | Dibromochloromethane        | 0.526 | 0.627  | -19.2 | 110   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
 Data File : VL041958.D  
 Acq On : 03 Feb 2025 10:48  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Feb 04 02:30:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Jan 14 23:15:42 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                 | 0.432 | 0.524 | -21.3 | 109   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.868 | 0.998 | -15.0 | 115   | -0.02    |
| 51 T | 2-Hexanone                | 0.667 | 0.784 | -17.5 | 115   | 0.00     |
| 52 T | Tetrachloroethene         | 0.318 | 0.325 | -2.2  | 106   | 0.00     |
| 53 T | Toluene                   | 0.999 | 1.126 | -12.7 | 107   | -0.01    |
| 54 T | 1,2-Dibromoethane         | 0.469 | 0.534 | -13.9 | 112   | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.499 | 0.593 | -18.8 | 114   | 0.00     |
| 57 T | Chlorobenzene             | 0.922 | 1.041 | -12.9 | 114   | 0.00     |
| 58 T | Ethyl Benzene             | 1.563 | 1.802 | -15.3 | 108   | 0.00     |
| 59 T | m/p-Xylene                | 1.253 | 1.490 | -18.9 | 113   | 0.00     |
| 60 T | o-Xylene                  | 1.243 | 1.495 | -20.3 | 113   | 0.00     |
| 61 T | Styrene                   | 0.558 | 0.663 | -18.8 | 105   | 0.00     |
| 62   | Isopropylbenzene          | 1.924 | 2.247 | -16.8 | 112   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.795 | 0.976 | -22.8 | 121   | 0.00     |
| 64   | n-propylbenzene           | 0.486 | 0.581 | -19.5 | 115   | 0.00     |
| 65   | tert-Butylbenzene         | 1.753 | 2.010 | -14.7 | 111   | 0.00     |
| 66 T | Benzyl Chloride           | 0.109 | 0.121 | -11.0 | 98    | 0.00     |
| 67   | sec-Butylbenzene          | 2.414 | 2.814 | -16.6 | 114   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.788 | 0.780 | 1.0   | 92    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.988 | 2.337 | -17.6 | 113   | 0.00     |
| 70   | n-Butylbenzene            | 1.972 | 2.285 | -15.9 | 112   | 0.00     |
| 71   | 2-Chlorotoluene           | 1.423 | 1.657 | -16.4 | 111   | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.487 | 1.774 | -19.3 | 112   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.313 | 1.525 | -16.1 | 112   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.422 | 1.659 | -16.7 | 114   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.843 | 0.964 | -14.4 | 115   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.825 | 0.948 | -14.9 | 114   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.835 | 0.957 | -14.6 | 117   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.686 | 0.667 | 2.8   | 106   | 0.00     |
| 79 T | Naphthalene               | 1.432 | 1.490 | -4.1  | 110   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.679 | 0.468 | 31.1# | 94    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.699 | 0.676 | 3.3   | 105   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
Data File : VL041960.D  
Acq On : 03 Feb 2025 12:05  
Operator : SY/MD  
Sample : VL0203ABL02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0203ABL02

Quant Time: Feb 04 02:33:07 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Jan 14 23:15:42 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 151198   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 407814   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 347345   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 262058   | 9.579    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 95.800% |

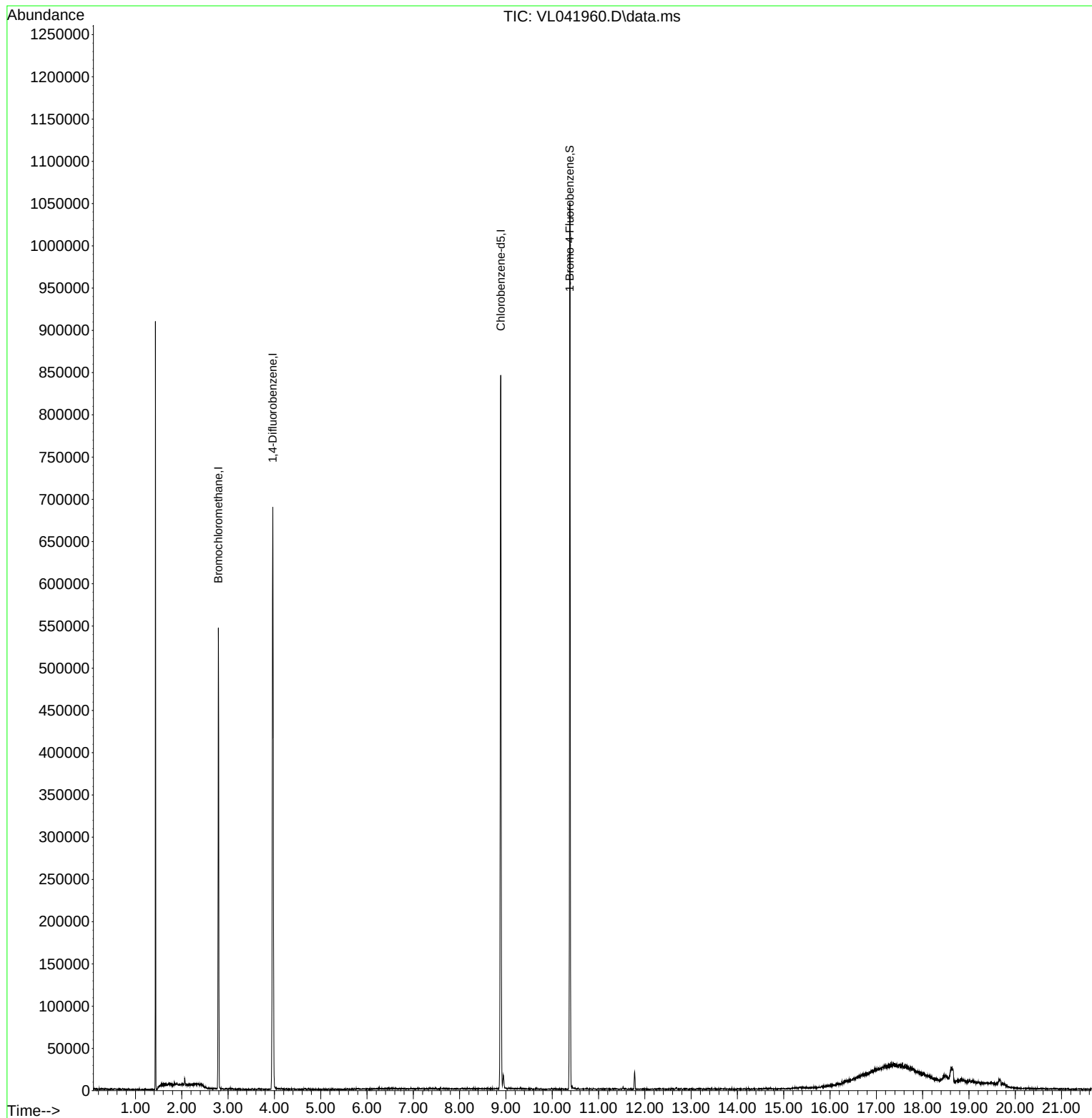
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
Data File : VL041960.D  
Acq On : 03 Feb 2025 12:05  
Operator : SY/MD  
Sample : VL0203ABL02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0203ABL02

Quant Time: Feb 04 02:33:07 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Jan 14 23:15:42 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
 Data File : VL041961.D  
 Acq On : 03 Feb 2025 12:57  
 Operator : SY/MD  
 Sample : VL0203ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0203ABS01

Quant Time: Feb 04 02:34:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2025  
 Supervised By : Mahesh Dadoda 02/04/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.790  | 49    | 152847   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.965  | 114   | 418895   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.882  | 117   | 367437   | 10.000   | ppbv   | -0.01    |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.380 | 95    | 287209   | 9.924    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 203280   | 9.764    | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 225433   | 10.336   | ppbv   | 99       |
| 4) Chloromethane              | 1.535  | 50    | 81880    | 10.457   | ppbv   | 94       |
| 5) Vinyl Chloride             | 1.583  | 62    | 77713    | 9.799    | ppbv   | 98       |
| 6) Bromomethane               | 1.670  | 94    | 36640    | 9.694    | ppbv   | 88       |
| 7) Chloroethane               | 1.706  | 64    | 31280    | 10.137   | ppbv   | 94       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 179670   | 9.875    | ppbv   | 98       |
| 9) Propene                    | 1.486  | 41    | 91411    | 10.174   | ppbv   | 99       |
| 10) Heptane                   | 4.985  | 43    | 161638   | 6.731    | ppbv   | 99       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 201683   | 9.312    | ppbv   | 96       |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 164938   | 9.717    | ppbv   | 98       |
| 13) Ethanol                   | 1.722  | 45    | 4592     | 6.978    | ppbv   | 91       |
| 14) Bromoethene               | 1.784  | 108   | 57833    | 9.306    | ppbv   | 99       |
| 15) Acetone                   | 1.839  | 43    | 165826   | 9.033    | ppbv   | 98       |
| 16) 1,3-Butadiene             | 1.609  | 39    | 83163    | 10.093   | ppbv   | 98       |
| 17) tert-Butyl alcohol        | 2.043  | 59    | 198776   | 8.797    | ppbv   | 98       |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 70323    | 9.192    | ppbv   | 97       |
| 19) Isopropyl Alcohol         | 1.891  | 45    | 99004    | 9.096    | ppbv   | 95       |
| 20) Methylene Chloride        | 2.065  | 84    | 62278    | 8.584    | ppbv   | 99       |
| 21) Allyl Chloride            | 2.098  | 41    | 122853   | 9.664    | ppbv   | 98       |
| 22) trans-1,2-Dichloroethene  | 2.344  | 96    | 85089    | 9.855    | ppbv   | 98       |
| 23) Vinyl Acetate             | 2.467  | 43    | 86919    | 9.552    | ppbv # | 96       |
| 24) 1,1-Dichloroethane        | 2.412  | 63    | 166034   | 9.942    | ppbv   | 99       |
| 25) Ethyl Acetate             | 2.842  | 43    | 536156   | 10.831   | ppbv   | 100      |
| 26) Hexane                    | 2.832  | 57    | 210051   | 10.728   | ppbv   | 95       |
| 27) Carbon Disulfide          | 2.153  | 76    | 198444   | 10.242   | ppbv   | 99       |
| 28) Methyl tert-Butyl Ether   | 2.444  | 73    | 110198   | 7.364    | ppbv   | 99       |
| 29) Chloroform                | 2.855  | 83    | 325966   | 10.532   | ppbv   | 96       |
| 30) Cyclohexane               | 3.865  | 84    | 173840   | 10.236   | ppbv   | 98       |
| 31) cis-1,2-Dichloroethene    | 2.726  | 61    | 204611   | 9.925    | ppbv   | 95       |
| 32) 1,1,1-Trichloroethane     | 3.376  | 97    | 305623   | 10.320   | ppbv   | 99       |
| 34) 2-Butanone                | 2.564  | 43    | 302190   | 11.344   | ppbv   | 99       |
| 35) Carbon Tetrachloride      | 3.768  | 117   | 309917   | 11.778   | ppbv   | 97       |
| 36) Benzene                   | 3.664  | 78    | 426241   | 11.094   | ppbv   | 99       |
| 37) 1,2-Dichloroethane        | 3.224  | 62    | 235620   | 10.920   | ppbv   | 99       |
| 38) Trichloroethene           | 4.554  | 130   | 167629   | 10.995   | ppbv   | 97       |
| 39) 1,2-Dichloropropane       | 4.318  | 63    | 151232   | 11.221   | ppbv   | 97       |
| 40) 1,4-Dioxane               | 4.590  | 88    | 74021    | 10.876   | ppbv # | 100      |
| 41) Tetrahydrofuran           | 3.062  | 42    | 169798   | 11.728   | ppbv   | 98       |
| 42) Bromodichloromethane      | 4.496  | 83    | 335595   | 11.600   | ppbv   | 98       |
| 43) Methyl Methacrylate       | 4.884  | 69    | 102724   | 7.197    | ppbv   | 96       |
| 44) 2,2,4-Trimethylpentane    | 4.648  | 57    | 725196   | 11.670   | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 6.422  | 75    | 145441   | 10.886   | ppbv   | 94       |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
 Data File : VL041961.D  
 Acq On : 03 Feb 2025 12:57  
 Operator : SY/MD  
 Sample : VL0203ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0203ABS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025  
 Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:34:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.609  | 75   | 122518   | 6.985  | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 167038   | 11.694 | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.390  | 129  | 260120   | 11.803 | ppbv   | 100      |
| 49) Bromoform                 | 9.487  | 173  | 217089   | 11.991 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.765  | 43   | 267280   | 7.350  | ppbv   | 98       |
| 51) 2-Hexanone                | 7.445  | 43   | 328817   | 11.767 | ppbv # | 96       |
| 52) Tetrachloroethene         | 8.225  | 164  | 136143   | 10.220 | ppbv   | 97       |
| 53) Toluene                   | 6.936  | 91   | 469033   | 11.207 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 222983   | 11.356 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 214758   | 11.715 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.924  | 112  | 382465   | 11.284 | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.357  | 91   | 646825   | 11.264 | ppbv   | 98       |
| 59) m/p-Xylene                | 9.555  | 91   | 1068374m | 23.212 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 537558   | 11.766 | ppbv   | 98       |
| 61) Styrene                   | 9.872  | 104  | 239767   | 11.699 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.542 | 105  | 802003   | 11.345 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 357905   | 12.260 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.992 | 120  | 208748   | 11.686 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 731901   | 11.360 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.620 | 91   | 41013    | 10.285 | ppbv   | 97       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 1015579  | 11.448 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.931 | 119  | 836492   | 11.451 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.290 | 91   | 824000   | 11.374 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 592446   | 11.329 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 634050   | 11.602 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 551677   | 11.432 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 602744   | 11.533 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 11.613 | 146  | 348392   | 11.249 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 344428   | 11.367 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 350456   | 11.418 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.892 | 225  | 239328   | 9.500  | ppbv   | 99       |
| 79) Naphthalene               | 13.523 | 128  | 539332   | 10.249 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.468 | 142  | 172189   | 6.902  | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.452 | 180  | 244059   | 9.502  | ppbv   | 99       |

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
Data File : VL041966.D  
Acq On : 03 Feb 2025 16:02  
Operator : SY/MD  
Sample : QC012825 CAN 10439  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC012825 CAN 10439

Quant Time: Feb 04 02:38:09 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Jan 14 23:15:42 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.793 | 49   | 146182   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.968 | 114  | 402503   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.891 | 117  | 341049   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95    | 256800   | 9.560    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 95.600% |

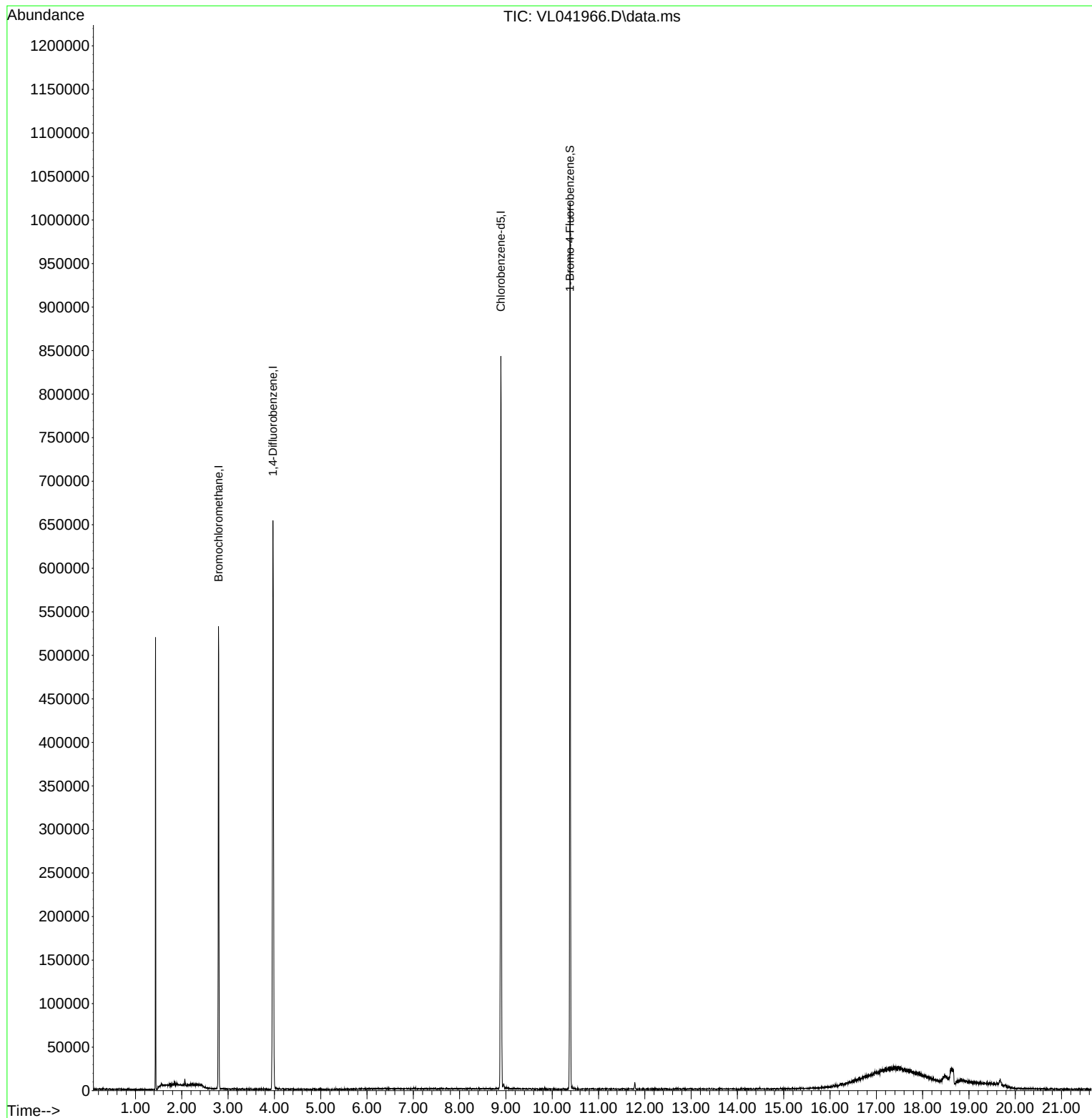
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
Data File : VL041966.D  
Acq On : 03 Feb 2025 16:02  
Operator : SY/MD  
Sample : QC012825 CAN 10439  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC012825 CAN 10439

Quant Time: Feb 04 02:38:09 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Jan 14 23:15:42 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
Data File : VL041974.D  
Acq On : 04 Feb 2025 08:03  
Operator : SY/MD  
Sample : QC020325 CAN 10599  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC020325 CAN 10599

Quant Time: Feb 04 08:27:00 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Jan 14 23:15:42 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.797 | 49   | 148524   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.975 | 114  | 371804   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.898 | 117  | 315945   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95    | 232316   | 9.336    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 93.400% |

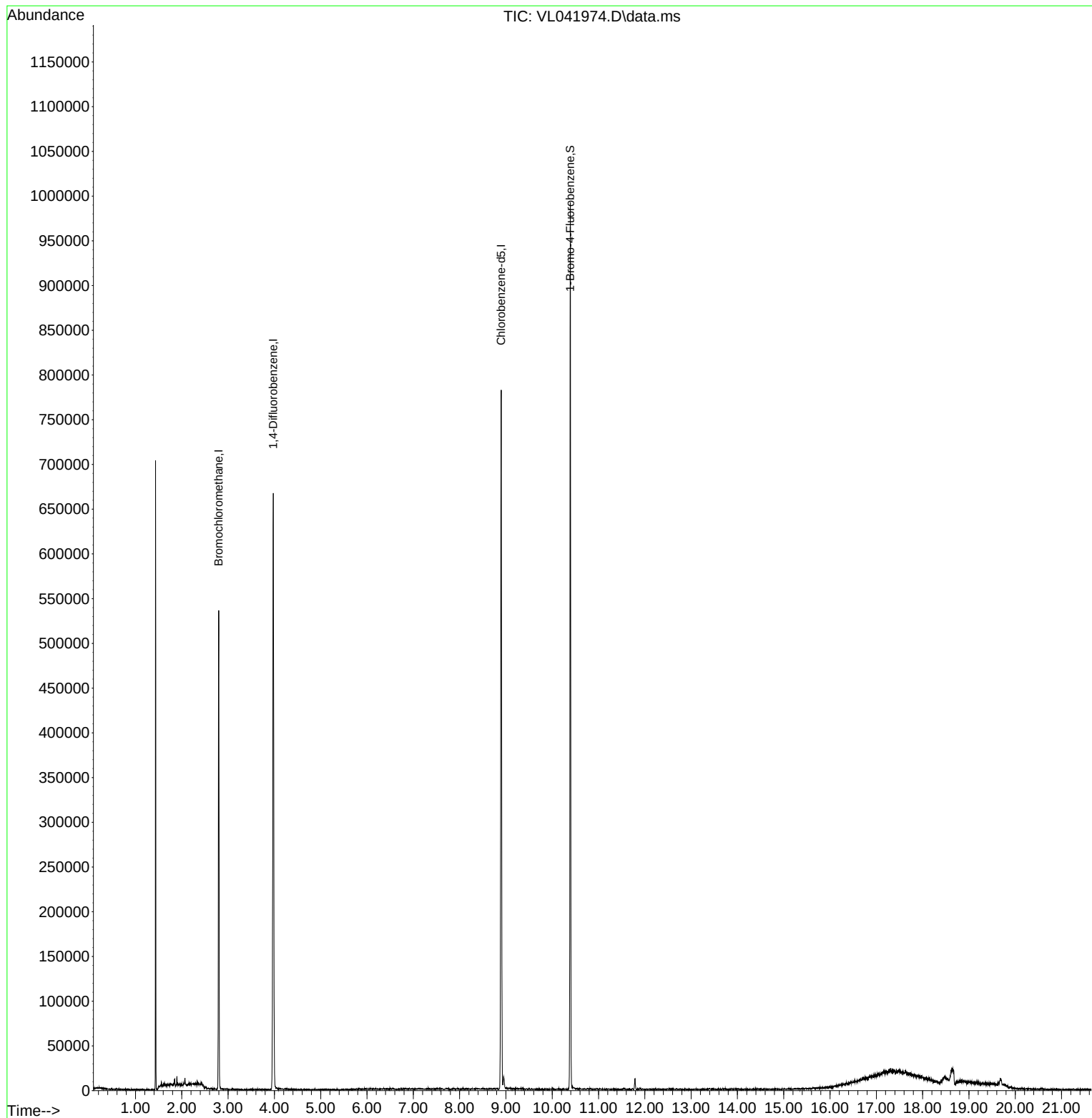
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL020325\  
Data File : VL041974.D  
Acq On : 04 Feb 2025 08:03  
Operator : SY/MD  
Sample : QC020325 CAN 10599  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC020325 CAN 10599

Quant Time: Feb 04 08:27:00 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Jan 14 23:15:42 2025  
Response via : Initial Calibration

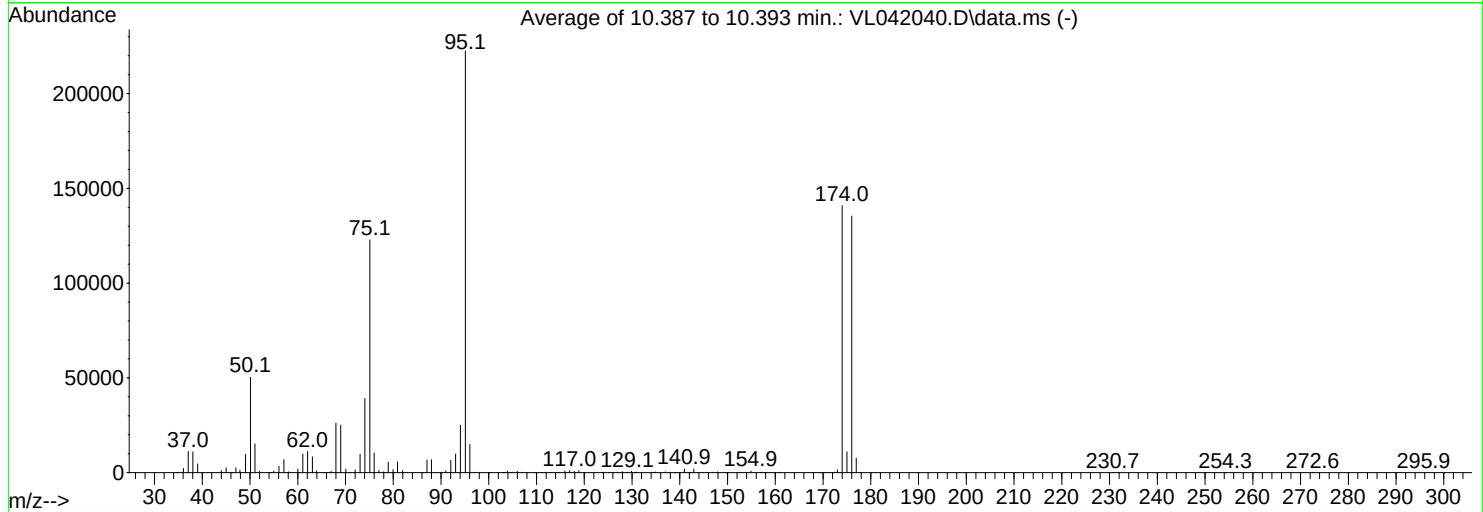
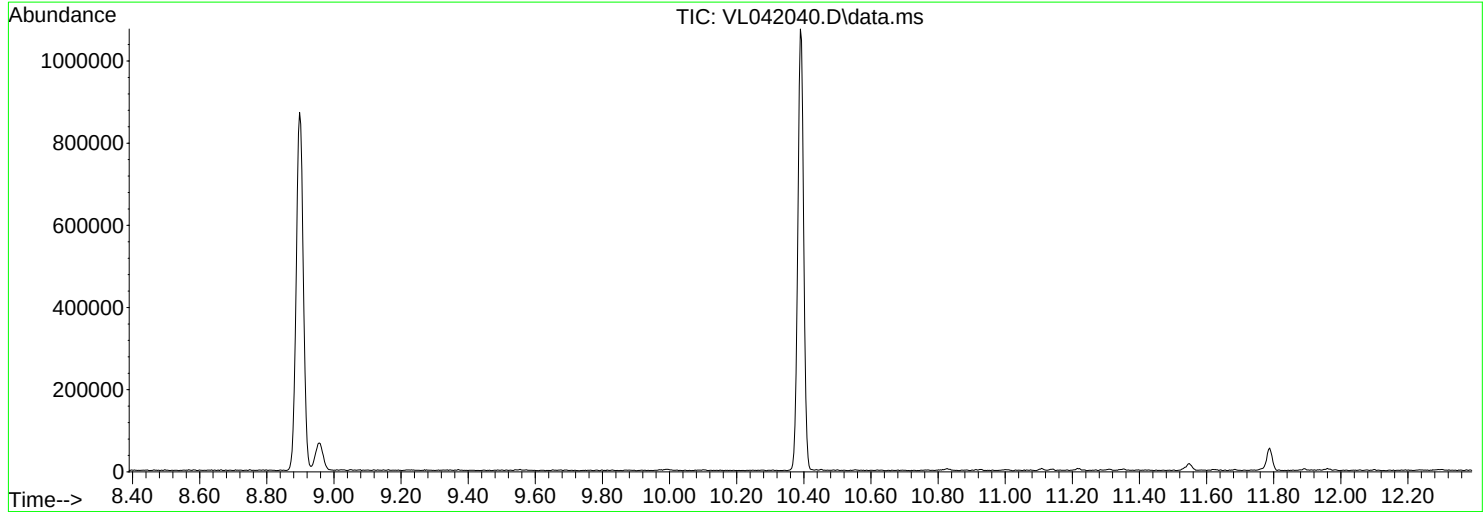


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
Data File : VL042040.D  
Acq On : 25 Feb 2025 07:56  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 22.6  | 50320  | PASS      |
| 75     | 95      | 30     | 66     | 55.2  | 122859 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 222571 | PASS      |
| 96     | 95      | 5      | 9      | 6.7   | 14875  | PASS      |
| 173    | 174     | 0.00   | 2      | 1.1   | 1534   | PASS      |
| 174    | 95      | 50     | 120    | 63.3  | 140957 | PASS      |
| 175    | 174     | 4      | 9      | 7.8   | 11014  | PASS      |
| 176    | 174     | 93     | 101    | 96.1  | 135437 | PASS      |
| 177    | 176     | 5      | 9      | 5.7   | 7676   | PASS      |

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

Method File : VL022525AIR.M

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

Last Update : Wed Feb 26 01:08:36 2025

Response Via : Initial Calibration

## Calibration Files

0.03=VL042046.D 0.1 =VL042045.D 0.5 =VL042044.D 1 =VL042043.D 2 =VL042042.D 10 =VL042041.D 15 =VL042047.D

| Compound                  | 0.03           | 0.1   | 0.5   | 1     | 2     | 10    | 15    | Avg    | %RSD  |
|---------------------------|----------------|-------|-------|-------|-------|-------|-------|--------|-------|
| -----                     |                |       |       |       |       |       |       |        |       |
| 1) I Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |        |       |
| 2) T Dichlorodifluo...    |                |       | 1.109 | 1.084 | 1.091 | 0.943 | 0.973 | 1.040  | 7.31  |
| 3) Chlorodifluoro...      |                |       | 1.493 | 1.566 | 1.535 | 1.311 | 1.362 | 1.453  | 7.67  |
| 4) Chloromethane          |                |       | 0.438 | 0.398 | 0.399 | 0.344 | 0.344 | 0.385  | 10.53 |
| 5) T Vinyl Chloride       | 0.447          | 0.336 | 0.376 | 0.346 | 0.361 | 0.337 | 0.343 | 0.364  | 10.89 |
| 6) T Bromomethane         |                |       | 0.170 | 0.184 | 0.186 | 0.160 | 0.165 | 0.173  | 6.63  |
| 7) Chloroethane           |                |       | 0.151 | 0.158 | 0.156 | 0.135 | 0.140 | 0.148  | 6.83  |
| 8) T Dichlorotetra...     |                |       | 0.892 | 0.910 | 0.901 | 0.779 | 0.791 | 0.855  | 7.47  |
| 9) T Propene              |                |       | 0.614 | 0.630 | 0.636 | 0.522 | 0.558 | 0.592  | 8.47  |
| 10) T Heptane             |                |       | 1.971 | 1.946 | 1.960 | 1.662 | 1.679 | 1.844  | 8.59  |
| 11) T Trichlorofluor...   |                |       | 1.056 | 1.122 | 1.119 | 0.944 | 0.968 | 1.042  | 7.98  |
| 12) T 1,1,2-Trichlor...   |                |       | 0.919 | 0.902 | 0.865 | 0.697 | 0.773 | 0.831  | 11.28 |
| 13) Ethanol               |                |       | 0.053 | 0.057 | 0.040 | 0.020 | 0.018 | 0.038# | 48.50 |
| 14) T Bromoethene         |                |       | 0.325 | 0.304 | 0.299 | 0.264 | 0.275 | 0.293  | 8.41  |
| 15) T Acetone             |                |       | 1.084 | 0.960 | 0.933 | 0.714 | 0.723 | 0.883  | 18.17 |
| 16) T 1,3-Butadiene       |                |       | 0.476 | 0.435 | 0.418 | 0.358 | 0.367 | 0.411  | 11.96 |
| 17) tert-Butyl alc...     |                |       | 1.184 | 1.185 | 1.201 | 0.950 | 1.004 | 1.105  | 10.71 |
| 18) T 1,1-Dichloroet...   |                |       | 0.398 | 0.437 | 0.386 | 0.320 | 0.338 | 0.376  | 12.57 |
| 19) T Isopropyl Alcohol   |                |       | 0.561 | 0.571 | 0.557 | 0.419 | 0.429 | 0.507  | 15.06 |
| 20) T Methylene Chlo...   |                |       | 0.429 | 0.374 | 0.329 | 0.261 | 0.278 | 0.334  | 20.72 |
| 21) T Allyl Chloride      |                |       | 0.707 | 0.717 | 0.639 | 0.538 | 0.590 | 0.638  | 11.94 |
| 22) T trans-1,2-Dich...   |                |       | 0.481 | 0.506 | 0.450 | 0.358 | 0.395 | 0.438  | 13.90 |
| 23) T Vinyl Acetate       |                |       | 0.689 | 0.614 | 0.695 | 0.520 | 0.586 | 0.621  | 11.82 |
| 24) T 1,1-Dichloroet...   |                |       | 0.927 | 0.856 | 0.863 | 0.669 | 0.758 | 0.815  | 12.42 |
| 25) T Ethyl Acetate       |                |       | 3.833 | 3.674 | 3.776 | 3.174 | 3.217 | 3.535  | 8.91  |
| 26) T Hexane              |                |       | 1.596 | 1.462 | 1.519 | 1.282 | 1.287 | 1.429  | 9.83  |
| 27) T Carbon Disulfide    |                |       | 1.042 | 0.972 | 1.032 | 0.856 | 0.942 | 0.969  | 7.78  |
| 28) T Methyl tert-Bu...   |                |       | 0.650 | 0.844 | 0.838 | 0.522 | 0.705 | 0.711  | 19.02 |
| 29) T Chloroform          |                |       | 2.165 | 2.044 | 1.971 | 1.722 | 1.716 | 1.923  | 10.36 |
| 30) T Cyclohexane         |                |       | 1.154 | 1.239 | 1.255 | 1.076 | 1.076 | 1.160  | 7.39  |
| 31) T cis-1,2-Dichlo...   |                |       | 1.421 | 1.401 | 1.450 | 1.237 | 1.255 | 1.353  | 7.33  |
| 32) T 1,1,1-Trichlor...   | 1.921          | 1.875 | 1.883 | 1.916 | 1.944 | 1.771 | 1.751 | 1.866  | 4.05  |
| -----                     |                |       |       |       |       |       |       |        |       |
| 33) I 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |       |
| 34) T 2-Butanone          |                |       | 0.833 | 0.799 | 0.812 | 0.692 | 0.759 | 0.779  | 7.15  |
| 35) T Carbon Tetrach...   | 0.664          | 0.705 | 0.675 | 0.723 | 0.725 | 0.655 | 0.681 | 0.690  | 4.09  |
| 36) T Benzene             |                |       | 1.079 | 1.084 | 1.104 | 0.969 | 0.999 | 1.047  | 5.66  |
| 37) T 1,2-Dichloroet...   |                |       | 0.624 | 0.604 | 0.598 | 0.520 | 0.556 | 0.580  | 7.20  |
| 38) T Trichloroethene     | 0.447          | 0.462 | 0.433 | 0.447 | 0.447 | 0.378 | 0.379 | 0.427  | 8.06  |
| 39) T 1,2-Dichloropr...   |                |       | 0.421 | 0.415 | 0.414 | 0.357 | 0.379 | 0.397  | 7.02  |

|                                                  |   |                   |       |       |       |       |       |       |       |       |       |
|--------------------------------------------------|---|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ |   |                   |       |       |       |       |       |       |       |       |       |
| Method File : VL022525AIR.M                      |   |                   |       |       |       |       |       |       |       |       |       |
| 40)                                              | T | 1,4-Dioxane       |       |       | 0.192 | 0.196 | 0.181 | 0.164 | 0.173 | 0.181 | 7.31  |
| 41)                                              | T | Tetrahydrofuran   |       |       | 0.469 | 0.492 | 0.473 | 0.418 | 0.450 | 0.460 | 6.04  |
| 42)                                              | T | Bromodichlorom... |       |       | 0.806 | 0.791 | 0.810 | 0.739 | 0.765 | 0.782 | 3.81  |
| 43)                                              |   | Methyl Methacr... |       |       | 0.400 | 0.418 | 0.426 | 0.392 | 0.409 | 0.409 | 3.35  |
| 44)                                              | T | 2,2,4-Trimethy... |       |       | 1.928 | 1.935 | 1.955 | 1.670 | 1.750 | 1.848 | 6.99  |
| 45)                                              | T | t-1,3-Dichloro... |       |       | 0.414 | 0.392 | 0.418 | 0.393 | 0.414 | 0.406 | 3.12  |
| 46)                                              | T | cis-1,3-Dichlo... |       |       | 0.514 | 0.523 | 0.548 | 0.516 | 0.526 | 0.526 | 2.59  |
| 47)                                              | T | 1,1,2-Trichlor... |       |       | 0.426 | 0.429 | 0.426 | 0.361 | 0.375 | 0.403 | 8.12  |
| 48)                                              | T | Dibromochlorom... |       |       | 0.618 | 0.667 | 0.667 | 0.594 | 0.613 | 0.632 | 5.25  |
| 49)                                              | T | Bromoform         |       |       | 0.553 | 0.551 | 0.588 | 0.525 | 0.526 | 0.549 | 4.68  |
| 50)                                              | T | 4-Methyl-2-Pen... |       |       | 0.996 | 0.974 | 0.975 | 1.014 | 1.079 | 1.008 | 4.27  |
| 51)                                              | T | 2-Hexanone        |       |       | 0.577 | 0.570 | 0.608 | 0.834 | 0.879 | 0.693 | 21.69 |
| 52)                                              | T | Tetrachloroethene | 0.322 | 0.374 | 0.380 | 0.383 | 0.385 | 0.327 | 0.337 | 0.358 | 7.88  |
| 53)                                              | T | Toluene           |       |       | 1.150 | 1.210 | 1.284 | 1.088 | 1.118 | 1.170 | 6.67  |
| 54)                                              | T | 1,2-Dibromoethane |       | 0.563 | 0.556 | 0.553 | 0.586 | 0.500 | 0.514 | 0.545 | 5.87  |
| -----ISTD-----                                   |   |                   |       |       |       |       |       |       |       |       |       |
| 55)                                              | I | Chlorobenzene-d5  |       |       |       |       |       |       |       |       |       |
| 56)                                              |   | 1,1,1,2-Tetrac... |       |       | 0.607 | 0.596 | 0.595 | 0.505 | 0.524 | 0.565 | 8.37  |
| 57)                                              | T | Chlorobenzene     |       |       | 1.102 | 1.113 | 1.121 | 0.910 | 0.938 | 1.037 | 10.02 |
| 58)                                              | T | Ethyl Benzene     |       |       | 1.886 | 1.906 | 1.974 | 1.694 | 1.749 | 1.842 | 6.31  |
| 59)                                              | T | m/p-Xylene        |       |       | 1.488 | 1.550 | 1.580 | 1.330 | 1.380 | 1.466 | 7.35  |
| 60)                                              | T | o-Xylene          |       |       | 1.572 | 1.550 | 1.577 | 1.317 | 1.351 | 1.473 | 8.68  |
| 61)                                              | T | Styrene           |       |       | 0.659 | 0.719 | 0.738 | 0.658 | 0.690 | 0.693 | 5.18  |
| 62)                                              |   | Isopropylbenzene  |       |       | 2.299 | 2.339 | 2.399 | 1.969 | 2.026 | 2.207 | 8.84  |
| 63)                                              | T | 1,1,2,2-Tetrac... | 0.999 | 0.975 | 1.026 | 1.041 | 1.031 | 0.848 | 0.872 | 0.970 | 8.13  |
| 64)                                              |   | n-propylbenzene   |       |       | 0.596 | 0.607 | 0.632 | 0.524 | 0.535 | 0.579 | 8.11  |
| 65)                                              |   | tert-Butylbenzene |       |       | 2.080 | 2.251 | 2.222 | 1.733 | 1.753 | 2.008 | 12.47 |
| 66)                                              | T | Benzyl Chloride   |       |       | 0.141 | 0.159 | 0.163 | 0.153 | 0.150 | 0.153 | 5.40  |
| 67)                                              |   | sec-Butylbenzene  |       |       | 2.973 | 3.229 | 3.182 | 2.482 | 2.494 | 2.872 | 12.65 |
| 68)                                              | S | 1-Bromo-4-Fluo... | 0.773 | 0.760 | 0.768 | 0.777 | 0.765 | 0.764 | 0.779 | 0.769 | 0.92  |
| 69)                                              |   | p-Isopropyltol... |       |       | 2.240 | 2.533 | 2.575 | 2.021 | 2.056 | 2.285 | 11.38 |
| 70)                                              |   | n-Butylbenzene    |       |       | 2.332 | 2.567 | 2.572 | 2.070 | 2.120 | 2.332 | 10.20 |
| 71)                                              |   | 2-Chlorotoluene   |       |       | 1.758 | 1.829 | 1.853 | 1.514 | 1.551 | 1.701 | 9.30  |
| 72)                                              | T | 4-Ethyltoluene    |       |       | 1.775 | 1.944 | 1.985 | 1.621 | 1.670 | 1.799 | 8.99  |
| 73)                                              | T | 1,3,5-Trimethy... |       |       | 1.592 | 1.732 | 1.696 | 1.381 | 1.400 | 1.560 | 10.47 |
| 74)                                              | T | 1,2,4-Trimethy... |       |       | 1.855 | 1.982 | 1.990 | 1.471 | 1.488 | 1.757 | 14.76 |
| 75)                                              | T | 1,3-Dichlorobe... |       |       | 1.112 | 1.110 | 1.083 | 0.869 | 0.882 | 1.011 | 12.30 |
| 76)                                              | T | 1,4-Dichlorobe... |       |       | 1.120 | 1.061 | 1.092 | 0.861 | 0.886 | 1.004 | 12.07 |
| 77)                                              | T | 1,2-Dichlorobe... |       |       | 1.059 | 1.097 | 1.063 | 0.836 | 0.852 | 0.981 | 12.88 |
| 78)                                              | T | Hexachloro-1,3... |       |       | 0.840 | 0.832 | 0.844 | 0.637 | 0.666 | 0.764 | 13.53 |
| 79)                                              | T | Naphthalene       |       | 0.841 | 0.978 | 1.237 | 1.352 | 1.371 | 1.450 | 1.205 | 20.15 |
| 80)                                              | T | Naphthalene,2-... |       |       | 0.090 | 0.142 | 0.240 | 0.562 | 0.615 | 0.330 | 73.74 |
| 81)                                              | T | 1,2,4-Trichlor... |       |       | 0.589 | 0.687 | 0.765 | 0.644 | 0.673 | 0.671 | 9.58  |

(#) = Out of Range



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042041.D  
 Acq On : 25 Feb 2025 08:56  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 03/06/2025  
 Supervised By : Semsettin Yesilyurt 03/06/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.800  | 49    | 161135   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.978  | 114   | 422655   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.901  | 117   | 374249   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.393 | 95    | 285943   | 9.263    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 92.600%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 152005   | 5.480    | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.479  | 51    | 211185   | 6.887    | ppbv   | 96       |
| 4) Chloromethane              | 1.538  | 50    | 55364    | 5.136    | ppbv   | 98       |
| 5) Vinyl Chloride             | 1.586  | 62    | 54228    | 4.207    | ppbv   | 98       |
| 6) Bromomethane               | 1.674  | 94    | 25846    | 5.173    | ppbv   | 90       |
| 7) Chloroethane               | 1.709  | 64    | 21717    | 5.169    | ppbv   | 96       |
| 8) Dichlorotetrafluoroethane  | 1.560  | 85    | 125595   | 5.147    | ppbv   | 94       |
| 9) Propene                    | 1.489  | 41    | 84038    | 6.357    | ppbv   | 97       |
| 10) Heptane                   | 5.007  | 43    | 267860   | 7.296    | ppbv   | 97       |
| 11) Trichlorofluoromethane    | 1.884  | 101   | 152112   | 5.449    | ppbv   | 96       |
| 12) 1,1,2-Trichlorotrifluo... | 2.146  | 101   | 112374   | 5.162    | ppbv   | 93       |
| 13) Ethanol                   | 1.729  | 45    | 3178     | 2.131    | ppbv   | 85       |
| 14) Bromoethene               | 1.787  | 108   | 42461    | 5.223    | ppbv   | 99       |
| 15) Acetone                   | 1.842  | 43    | 115085   | 4.327    | ppbv   | 95       |
| 16) 1,3-Butadiene             | 1.615  | 39    | 57707    | 4.574    | ppbv   | 100      |
| 17) tert-Butyl alcohol        | 2.049  | 59    | 153073   | 4.651    | ppbv   | 100      |
| 18) 1,1-Dichloroethene        | 2.043  | 96    | 51534    | 4.954    | ppbv   | 95       |
| 19) Isopropyl Alcohol         | 1.894  | 45    | 67445    | 4.522    | ppbv   | 98       |
| 20) Methylene Chloride        | 2.069  | 84    | 41998    | 4.195    | ppbv   | 94       |
| 21) Allyl Chloride            | 2.104  | 41    | 86723    | 4.504    | ppbv   | 99       |
| 22) trans-1,2-Dichloroethene  | 2.350  | 96    | 57617    | 5.104    | ppbv   | 96       |
| 23) Vinyl Acetate             | 2.473  | 43    | 83866    | 5.823    | ppbv   | 98       |
| 24) 1,1-Dichloroethane        | 2.418  | 63    | 107817   | 4.704    | ppbv   | 100      |
| 25) Ethyl Acetate             | 2.852  | 43    | 511505   | 7.007    | ppbv   | 99       |
| 26) Hexane                    | 2.839  | 57    | 206577   | 7.052    | ppbv   | 98       |
| 27) Carbon Disulfide          | 2.159  | 76    | 137978   | 5.008    | ppbv   | 97       |
| 28) Methyl tert-Butyl Ether   | 2.450  | 73    | 84091    | 4.696    | ppbv   | 98       |
| 29) Chloroform                | 2.862  | 83    | 277411   | 6.538    | ppbv   | 96       |
| 30) Cyclohexane               | 3.875  | 84    | 173351   | 7.295    | ppbv   | 98       |
| 31) cis-1,2-Dichloroethene    | 2.732  | 61    | 199354   | 6.886    | ppbv   | 98       |
| 32) 1,1,1-Trichloroethane     | 3.383  | 97    | 285335   | 6.064    | ppbv   | 98       |
| 34) 2-Butanone                | 2.570  | 43    | 292449   | 8.043    | ppbv   | 100      |
| 35) Carbon Tetrachloride      | 3.781  | 117   | 276677   | 6.741    | ppbv   | 97       |
| 36) Benzene                   | 3.674  | 78    | 409501   | 7.999    | ppbv   | 98       |
| 37) 1,2-Dichloroethane        | 3.234  | 62    | 219829   | 7.543    | ppbv   | 100      |
| 38) Trichloroethene           | 4.570  | 130   | 159933   | 7.689    | ppbv   | 93       |
| 39) 1,2-Dichloropropane       | 4.337  | 63    | 151036   | 8.047    | ppbv   | 99       |
| 40) 1,4-Dioxane               | 4.609  | 88    | 69399    | 7.105    | ppbv # | 76       |
| 41) Tetrahydrofuran           | 3.072  | 42    | 176830   | 8.509    | ppbv   | 95       |
| 42) Bromodichloromethane      | 4.512  | 83    | 312250   | 7.908    | ppbv   | 97       |
| 43) Methyl Methacrylate       | 4.907  | 69    | 165494   | 7.091    | ppbv   | 97       |
| 44) 2,2,4-Trimethylpentane    | 4.661  | 57    | 705920   | 8.122    | ppbv   | 97       |
| 45) t-1,3-Dichloropropene     | 6.444  | 75    | 166207   | 7.544    | ppbv   | 91       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042041.D  
 Acq On : 25 Feb 2025 08:56  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025  
 Supervised By :Semsettin Yesilyurt 03/06/2025

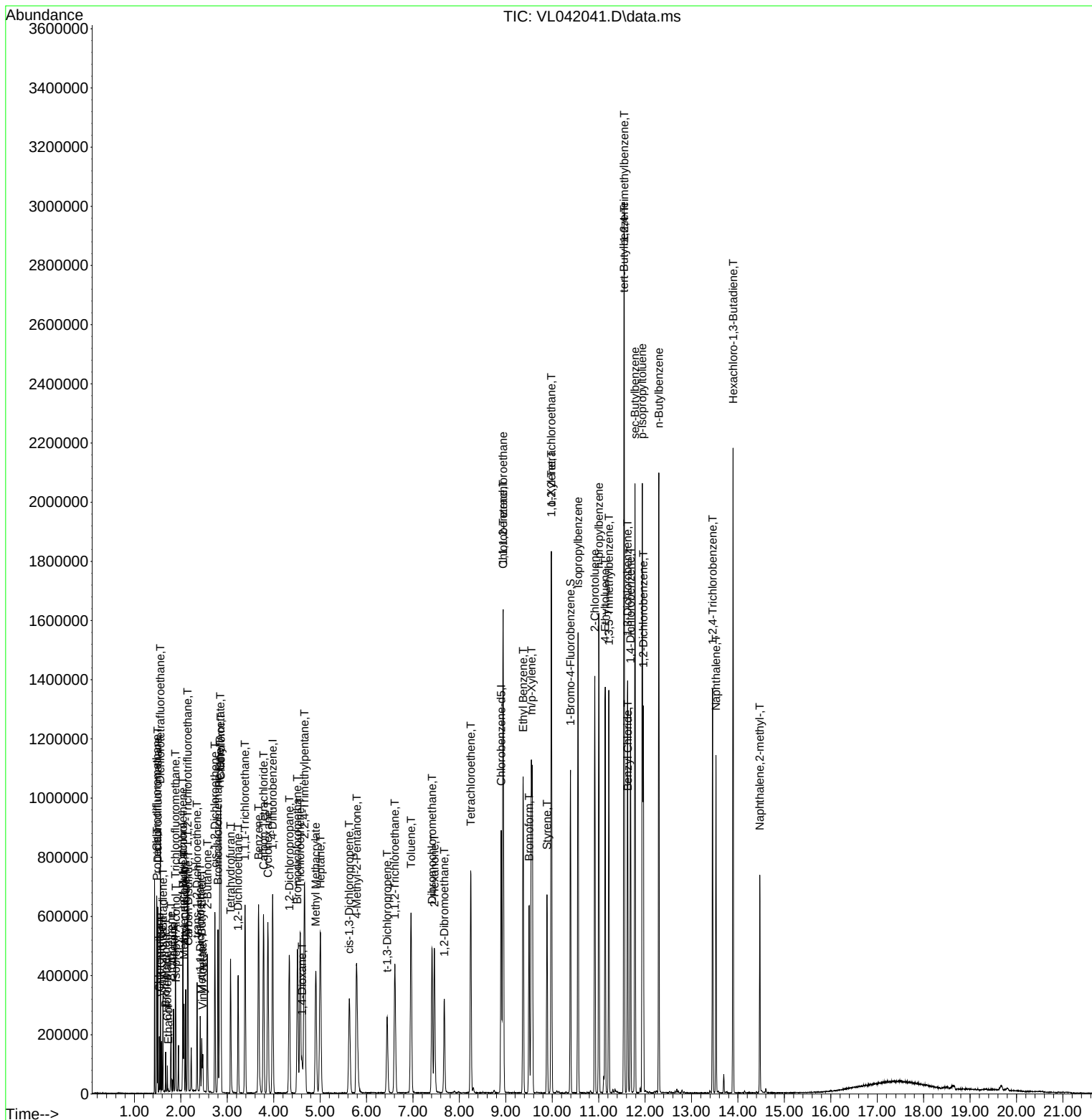
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.629  | 75   | 218294   | 7.809  | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 6.610  | 97   | 152556   | 7.723  | ppbv   | 97       |
| 48) Dibromochloromethane      | 7.412  | 129  | 251213   | 7.593  | ppbv   | 99       |
| 49) Bromoform                 | 9.503  | 173  | 222057   | 8.183  | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.787  | 43   | 428434   | 7.666  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.464  | 43   | 352331   | 7.709  | ppbv # | 96       |
| 52) Tetrachloroethene         | 8.244  | 164  | 138263   | 7.743  | ppbv   | 94       |
| 53) Toluene                   | 6.959  | 91   | 460041   | 7.541  | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 7.678  | 107  | 211395   | 7.772  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.943  | 131  | 188811   | 7.049  | ppbv   | 97       |
| 57) Chlorobenzene             | 8.940  | 112  | 340525   | 7.735  | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.374  | 91   | 633939   | 7.739  | ppbv   | 98       |
| 59) m/p-Xylene                | 9.552  | 91   | 995259m  | 15.427 | ppbv   |          |
| 60) o-Xylene                  | 9.982  | 91   | 493069   | 7.557  | ppbv   | 97       |
| 61) Styrene                   | 9.888  | 104  | 246161   | 7.912  | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.555 | 105  | 736884   | 7.522  | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.979  | 83   | 317313   | 7.538  | ppbv   | 100      |
| 64) n-propylbenzene           | 11.005 | 120  | 196044   | 8.145  | ppbv   | 90       |
| 65) tert-Butylbenzene         | 11.545 | 119  | 648698   | 7.596  | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.630 | 91   | 57345    | 6.699  | ppbv # | 97       |
| 67) sec-Butylbenzene          | 11.782 | 105  | 928863   | 7.744  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 756264   | 7.702  | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.296 | 91   | 774646   | 8.009  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.918 | 91   | 566619   | 7.681  | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.141 | 105  | 606538   | 7.934  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.219 | 105  | 516875   | 7.838  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.552 | 105  | 550412   | 7.777  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 11.623 | 146  | 325160   | 8.535  | ppbv   | 97       |
| 76) 1,4-Dichlorobenzene       | 11.685 | 146  | 322404   | 8.678  | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 11.963 | 146  | 312942   | 8.593  | ppbv   | 96       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 238217   | 7.907  | ppbv   | 100      |
| 79) Naphthalene               | 13.526 | 128  | 513192   | 7.372  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 210405   | 6.676  | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 241031   | 8.517  | ppbv   | 99       |

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

## Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025  
Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Tue Feb 18 00:13:37 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042042.D  
 Acq On : 25 Feb 2025 09:29  
 Operator : SY/MD  
 Sample : VSTDIC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.800  | 49    | 160999   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.981  | 114   | 427051   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.901  | 117   | 377910   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.393 | 95    | 289049   | 9.273    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 92.700%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.505  | 85    | 35122    | 1.267    | ppbv   | 95       |
| 3) Chlorodifluoromethane      | 1.483  | 51    | 49423    | 1.613    | ppbv   | 94       |
| 4) Chloromethane              | 1.538  | 50    | 12833    | 1.192    | ppbv # | 87       |
| 5) Vinyl Chloride             | 1.586  | 62    | 11611    | 0.902    | ppbv   | 97       |
| 6) Bromomethane               | 1.674  | 94    | 5996     | 1.201    | ppbv   | 97       |
| 7) Chloroethane               | 1.712  | 64    | 5014     | 1.195    | ppbv   | 90       |
| 8) Dichlorotetrafluoroethane  | 1.560  | 85    | 29028    | 1.191    | ppbv   | 99       |
| 9) Propene                    | 1.489  | 41    | 20484    | 1.551    | ppbv   | 95       |
| 10) Heptane                   | 5.004  | 43    | 63098    | 1.720    | ppbv   | 94       |
| 11) Trichlorofluoromethane    | 1.884  | 101   | 36041    | 1.292    | ppbv   | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.149  | 101   | 27846    | 1.280    | ppbv   | 90       |
| 13) Ethanol                   | 1.729  | 45    | 1291     | 0.866    | ppbv   | 91       |
| 14) Bromoethene               | 1.790  | 108   | 9642     | 1.187    | ppbv   | 93       |
| 15) Acetone                   | 1.842  | 43    | 30058    | 1.131    | ppbv   | 100      |
| 16) 1,3-Butadiene             | 1.615  | 39    | 13471    | 1.069    | ppbv   | 100      |
| 17) tert-Butyl alcohol        | 2.052  | 59    | 38684    | 1.176    | ppbv   | 96       |
| 18) 1,1-Dichloroethene        | 2.043  | 96    | 12417    | 1.195    | ppbv   | 93       |
| 19) Isopropyl Alcohol         | 1.894  | 45    | 17927    | 1.203    | ppbv   | 96       |
| 20) Methylene Chloride        | 2.072  | 84    | 10587    | 1.058    | ppbv # | 80       |
| 21) Allyl Chloride            | 2.107  | 41    | 20564    | 1.069    | ppbv   | 96       |
| 22) trans-1,2-Dichloroethene  | 2.350  | 96    | 14475    | 1.283    | ppbv   | 81       |
| 23) Vinyl Acetate             | 2.473  | 43    | 22394    | 1.556    | ppbv # | 94       |
| 24) 1,1-Dichloroethane        | 2.421  | 63    | 27804    | 1.214    | ppbv   | 99       |
| 25) Ethyl Acetate             | 2.852  | 43    | 121593   | 1.667    | ppbv   | 100      |
| 26) Hexane                    | 2.839  | 57    | 48912    | 1.671    | ppbv   | 98       |
| 27) Carbon Disulfide          | 2.159  | 76    | 33222    | 1.207    | ppbv # | 57       |
| 28) Methyl tert-Butyl Ether   | 2.457  | 73    | 26968    | 1.507    | ppbv   | 100      |
| 29) Chloroform                | 2.865  | 83    | 63463    | 1.497    | ppbv   | 92       |
| 30) Cyclohexane               | 3.878  | 84    | 40420    | 1.702    | ppbv   | 98       |
| 31) cis-1,2-Dichloroethene    | 2.732  | 61    | 46690    | 1.614    | ppbv   | 96       |
| 32) 1,1,1-Trichloroethane     | 3.386  | 97    | 62586    | 1.331    | ppbv   | 97       |
| 34) 2-Butanone                | 2.573  | 43    | 69370    | 1.888    | ppbv   | 96       |
| 35) Carbon Tetrachloride      | 3.784  | 117   | 61895    | 1.493    | ppbv   | 97       |
| 36) Benzene                   | 3.677  | 78    | 94277    | 1.822    | ppbv   | 98       |
| 37) 1,2-Dichloroethane        | 3.237  | 62    | 51050    | 1.734    | ppbv   | 99       |
| 38) Trichloroethene           | 4.574  | 130   | 38184    | 1.817    | ppbv   | 99       |
| 39) 1,2-Dichloropropane       | 4.341  | 63    | 35396    | 1.866    | ppbv   | 95       |
| 40) 1,4-Dioxane               | 4.622  | 88    | 15442    | 1.565    | ppbv # | 28       |
| 41) Tetrahydrofuran           | 3.075  | 42    | 40365    | 1.922    | ppbv   | 96       |
| 42) Bromodichloromethane      | 4.512  | 83    | 69154    | 1.733    | ppbv   | 94       |
| 43) Methyl Methacrylate       | 4.910  | 69    | 36393    | 1.543    | ppbv   | 94       |
| 44) 2,2,4-Trimethylpentane    | 4.664  | 57    | 166945   | 1.901    | ppbv   | 97       |
| 45) t-1,3-Dichloropropene     | 6.448  | 75    | 35707    | 1.604    | ppbv   | 93       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042042.D  
 Acq On : 25 Feb 2025 09:29  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.632  | 75   | 46835    | 1.658 | ppbv   | 93       |
| 47) 1,1,2-Trichloroethane     | 6.613  | 97   | 36368    | 1.822 | ppbv   | 93       |
| 48) Dibromochloromethane      | 7.412  | 129  | 56931    | 1.703 | ppbv   | 99       |
| 49) Bromoform                 | 9.503  | 173  | 50259    | 1.833 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.797  | 43   | 83246    | 1.474 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.470  | 43   | 51926    | 1.124 | ppbv # | 94       |
| 52) Tetrachloroethene         | 8.244  | 164  | 32874    | 1.822 | ppbv   | 95       |
| 53) Toluene                   | 6.962  | 91   | 109646   | 1.779 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.678  | 107  | 50010    | 1.820 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.946  | 131  | 44947    | 1.662 | ppbv   | 98       |
| 57) Chlorobenzene             | 8.943  | 112  | 84749    | 1.906 | ppbv   | 95       |
| 58) Ethyl Benzene             | 9.374  | 91   | 149185   | 1.804 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.568  | 91   | 238800m  | 3.666 | ppbv   |          |
| 60) o-Xylene                  | 9.982  | 91   | 119170   | 1.809 | ppbv   | 97       |
| 61) Styrene                   | 9.888  | 104  | 55798    | 1.776 | ppbv   | 96       |
| 62) Isopropylbenzene          | 10.555 | 105  | 181311   | 1.833 | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 9.982  | 83   | 77911    | 1.833 | ppbv   | 96       |
| 64) n-propylbenzene           | 11.005 | 120  | 47764    | 1.965 | ppbv   | 92       |
| 65) tert-Butylbenzene         | 11.545 | 119  | 167973   | 1.948 | ppbv   | 96       |
| 66) Benzyl Chloride           | 11.630 | 91   | 12304    | 1.423 | ppbv # | 98       |
| 67) sec-Butylbenzene          | 11.782 | 105  | 240504   | 1.986 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 194660   | 1.963 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.296 | 91   | 194416   | 1.991 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.917 | 91   | 140068   | 1.880 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.141 | 105  | 150038   | 1.944 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.218 | 105  | 128202   | 1.925 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.549 | 105  | 150380   | 2.104 | ppbv # | 88       |
| 75) 1,3-Dichlorobenzene       | 11.623 | 146  | 81884    | 2.129 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.688 | 146  | 82560    | 2.201 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 11.963 | 146  | 80367    | 2.186 | ppbv   | 96       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 63815    | 2.098 | ppbv   | 99       |
| 79) Naphthalene               | 13.526 | 128  | 102197   | 1.454 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.475 | 142  | 18104    | 0.569 | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 57798    | 2.023 | ppbv   | 98       |

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042043.D  
 Acq On : 25 Feb 2025 10:00  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.800  | 49    | 161096   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.978  | 114   | 423363   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.898  | 117   | 369917   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.390 | 95    | 287450   | 9.420    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 94.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 17457    | 0.629    | ppbv   | 95       |
| 3) Chlorodifluoromethane      | 1.479  | 51    | 25229    | 0.823    | ppbv   | 98       |
| 4) Chloromethane              | 1.538  | 50    | 6417     | 0.595    | ppbv # | 75       |
| 5) Vinyl Chloride             | 1.586  | 62    | 5567     | 0.432    | ppbv   | 96       |
| 6) Bromomethane               | 1.674  | 94    | 2966     | 0.594    | ppbv   | 100      |
| 7) Chloroethane               | 1.709  | 64    | 2542     | 0.605    | ppbv   | 96       |
| 8) Dichlorotetrafluoroethane  | 1.560  | 85    | 14655    | 0.601    | ppbv   | 90       |
| 9) Propene                    | 1.486  | 41    | 10156    | 0.768    | ppbv   | 96       |
| 10) Heptane                   | 4.998  | 43    | 31354m   | 0.854    | ppbv   |          |
| 11) Trichlorofluoromethane    | 1.884  | 101   | 18079    | 0.648    | ppbv   | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.149  | 101   | 14527    | 0.667    | ppbv   | 92       |
| 13) Ethanol                   | 1.725  | 45    | 915m     | 0.614    | ppbv   |          |
| 14) Bromoethene               | 1.787  | 108   | 4905     | 0.604    | ppbv # | 95       |
| 15) Acetone                   | 1.845  | 43    | 15468    | 0.582    | ppbv   | 98       |
| 16) 1,3-Butadiene             | 1.615  | 39    | 7010     | 0.556    | ppbv   | 99       |
| 17) tert-Butyl alcohol        | 2.052  | 59    | 19092    | 0.580    | ppbv   | 97       |
| 18) 1,1-Dichloroethene        | 2.043  | 96    | 7042     | 0.677    | ppbv   | 94       |
| 19) Isopropyl Alcohol         | 1.894  | 45    | 9191     | 0.616    | ppbv # | 32       |
| 20) Methylene Chloride        | 2.068  | 84    | 6026     | 0.602    | ppbv   | 95       |
| 21) Allyl Chloride            | 2.104  | 41    | 11550    | 0.600    | ppbv   | 95       |
| 22) trans-1,2-Dichloroethene  | 2.347  | 96    | 8145m    | 0.722    | ppbv   |          |
| 23) Vinyl Acetate             | 2.473  | 43    | 9893     | 0.687    | ppbv # | 91       |
| 24) 1,1-Dichloroethane        | 2.418  | 63    | 13783    | 0.601    | ppbv   | 98       |
| 25) Ethyl Acetate             | 2.852  | 43    | 59183    | 0.811    | ppbv   | 99       |
| 26) Hexane                    | 2.836  | 57    | 23549    | 0.804    | ppbv   | 96       |
| 27) Carbon Disulfide          | 2.159  | 76    | 15659    | 0.568    | ppbv # | 46       |
| 28) Methyl tert-Butyl Ether   | 2.454  | 73    | 13593    | 0.759    | ppbv   | 95       |
| 29) Chloroform                | 2.861  | 83    | 32925    | 0.776    | ppbv   | 94       |
| 30) Cyclohexane               | 3.874  | 84    | 19953    | 0.840    | ppbv   | 97       |
| 31) cis-1,2-Dichloroethene    | 2.732  | 61    | 22565    | 0.780    | ppbv   | 97       |
| 32) 1,1,1-Trichloroethane     | 3.386  | 97    | 30870    | 0.656    | ppbv   | 96       |
| 34) 2-Butanone                | 2.570  | 43    | 33820    | 0.929    | ppbv   | 99       |
| 35) Carbon Tetrachloride      | 3.777  | 117   | 30618    | 0.745    | ppbv   | 90       |
| 36) Benzene                   | 3.674  | 78    | 45892    | 0.895    | ppbv   | 96       |
| 37) 1,2-Dichloroethane        | 3.234  | 62    | 25585    | 0.876    | ppbv   | 99       |
| 38) Trichloroethene           | 4.570  | 130   | 18921    | 0.908    | ppbv   | 91       |
| 39) 1,2-Dichloropropane       | 4.334  | 63    | 17557    | 0.934    | ppbv   | 94       |
| 40) 1,4-Dioxane               | 4.619  | 88    | 8319m    | 0.850    | ppbv   |          |
| 41) Tetrahydrofuran           | 3.075  | 42    | 20823    | 1.000    | ppbv   | 96       |
| 42) Bromodichloromethane      | 4.515  | 83    | 33481    | 0.847    | ppbv   | 97       |
| 43) Methyl Methacrylate       | 4.907  | 69    | 17679    | 0.756    | ppbv   | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.661  | 57    | 81921    | 0.941    | ppbv   | 98       |
| 45) t-1,3-Dichloropropene     | 6.444  | 75    | 16578m   | 0.751    | ppbv   |          |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042043.D  
 Acq On : 25 Feb 2025 10:00  
 Operator : SY/MD  
 Sample : VSTDIC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.632  | 75   | 22127m   | 0.790 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.616  | 97   | 18160m   | 0.918 | ppbv   |          |
| 48) Dibromochloromethane      | 7.412  | 129  | 28239    | 0.852 | ppbv   | 97       |
| 49) Bromoform                 | 9.500  | 173  | 23310    | 0.858 | ppbv   | 94       |
| 50) 4-Methyl-2-Pentanone      | 5.791  | 43   | 41249m   | 0.737 | ppbv   |          |
| 51) 2-Hexanone                | 7.470  | 43   | 24117    | 0.527 | ppbv # | 97       |
| 52) Tetrachloroethene         | 8.241  | 164  | 16217    | 0.907 | ppbv   | 89       |
| 53) Toluene                   | 6.959  | 91   | 51231    | 0.838 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.674  | 107  | 23427    | 0.860 | ppbv   | 94       |
| 56) 1,1,1,2-Tetrachloroethane | 8.943  | 131  | 22060    | 0.833 | ppbv   | 97       |
| 57) Chlorobenzene             | 8.937  | 112  | 41173    | 0.946 | ppbv   | 96       |
| 58) Ethyl Benzene             | 9.370  | 91   | 70507    | 0.871 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.568  | 91   | 114691m  | 1.799 | ppbv   |          |
| 60) o-Xylene                  | 9.979  | 91   | 57322    | 0.889 | ppbv   | 99       |
| 61) Styrene                   | 9.885  | 104  | 26596    | 0.865 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.555 | 105  | 86533    | 0.894 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.979  | 83   | 38520    | 0.926 | ppbv   | 98       |
| 64) n-propylbenzene           | 11.002 | 120  | 22456    | 0.944 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.545 | 119  | 83284    | 0.987 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.626 | 91   | 5880m    | 0.695 | ppbv   |          |
| 67) sec-Butylbenzene          | 11.782 | 105  | 119435   | 1.007 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 93710    | 0.966 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.293 | 91   | 94969    | 0.993 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.914 | 91   | 67655    | 0.928 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.137 | 105  | 71906    | 0.952 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.215 | 105  | 64087    | 0.983 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.549 | 105  | 73323    | 1.048 | ppbv   | 100      |
| 75) 1,3-Dichlorobenzene       | 11.620 | 146  | 41063    | 1.091 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.685 | 146  | 39235    | 1.068 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.960 | 146  | 40574    | 1.127 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 30764    | 1.033 | ppbv   | 99       |
| 79) Naphthalene               | 13.526 | 128  | 45743    | 0.665 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 5244     | 0.168 | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 13.452 | 180  | 25404    | 0.908 | ppbv   | 95       |

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042044.D  
 Acq On : 25 Feb 2025 10:31  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.797  | 49    | 159644   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.975  | 114   | 421340   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.898  | 117   | 365954   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.390 | 95    | 281042   | 9.310    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 93.100%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 8852     | 0.322    | ppbv   | 98       |
| 3) Chlorodifluoromethane      | 1.479  | 51    | 11921    | 0.392    | ppbv   | 94       |
| 4) Chloromethane              | 1.537  | 50    | 3497     | 0.327    | ppbv # | 88       |
| 5) Vinyl Chloride             | 1.583  | 62    | 3005     | 0.235    | ppbv   | 98       |
| 6) Bromomethane               | 1.673  | 94    | 1359     | 0.275    | ppbv   | 92       |
| 7) Chloroethane               | 1.709  | 64    | 1205     | 0.290    | ppbv   | 89       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 7123     | 0.295    | ppbv   | 99       |
| 9) Propene                    | 1.486  | 41    | 4904     | 0.374    | ppbv   | 94       |
| 10) Heptane                   | 5.004  | 43    | 15731    | 0.432    | ppbv   | 98       |
| 11) Trichlorofluoromethane    | 1.884  | 101   | 8429     | 0.305    | ppbv   | 92       |
| 12) 1,1,2-Trichlorotrifluo... | 2.146  | 101   | 7336     | 0.340    | ppbv   | 98       |
| 13) Ethanol                   | 1.725  | 45    | 426      | 0.288    | ppbv   | 75       |
| 14) Bromoethene               | 1.787  | 108   | 2598     | 0.323    | ppbv # | 89       |
| 15) Acetone                   | 1.842  | 43    | 8655     | 0.328    | ppbv   | 96       |
| 16) 1,3-Butadiene             | 1.615  | 39    | 3803     | 0.304    | ppbv   | 97       |
| 17) tert-Butyl alcohol        | 2.049  | 59    | 9447     | 0.290    | ppbv # | 90       |
| 18) 1,1-Dichloroethene        | 2.039  | 96    | 3173     | 0.308    | ppbv   | 94       |
| 19) Isopropyl Alcohol         | 1.894  | 45    | 4481     | 0.303    | ppbv # | 32       |
| 20) Methylene Chloride        | 2.068  | 84    | 3423     | 0.345    | ppbv   | 97       |
| 21) Allyl Chloride            | 2.104  | 41    | 5640     | 0.296    | ppbv   | 100      |
| 22) trans-1,2-Dichloroethene  | 2.347  | 96    | 3838m    | 0.343    | ppbv   |          |
| 23) Vinyl Acetate             | 2.473  | 43    | 5499     | 0.385    | ppbv # | 86       |
| 24) 1,1-Dichloroethane        | 2.418  | 63    | 7396     | 0.326    | ppbv # | 88       |
| 25) Ethyl Acetate             | 2.848  | 43    | 30593    | 0.423    | ppbv   | 98       |
| 26) Hexane                    | 2.832  | 57    | 12739    | 0.439    | ppbv   | 98       |
| 27) Carbon Disulfide          | 2.159  | 76    | 8316     | 0.305    | ppbv # | 15       |
| 28) Methyl tert-Butyl Ether   | 2.450  | 73    | 5185     | 0.292    | ppbv # | 80       |
| 29) Chloroform                | 2.858  | 83    | 17278    | 0.411    | ppbv   | 93       |
| 30) Cyclohexane               | 3.874  | 84    | 9209     | 0.391    | ppbv   | 88       |
| 31) cis-1,2-Dichloroethene    | 2.729  | 61    | 11344    | 0.395    | ppbv   | 97       |
| 32) 1,1,1-Trichloroethane     | 3.382  | 97    | 15027    | 0.322    | ppbv   | 93       |
| 34) 2-Butanone                | 2.570  | 43    | 17555    | 0.484    | ppbv   | 99       |
| 35) Carbon Tetrachloride      | 3.780  | 117   | 14223    | 0.348    | ppbv   | 90       |
| 36) Benzene                   | 3.670  | 78    | 22728    | 0.445    | ppbv   | 95       |
| 37) 1,2-Dichloroethane        | 3.230  | 62    | 13141    | 0.452    | ppbv   | 100      |
| 38) Trichloroethene           | 4.570  | 130   | 9115     | 0.440    | ppbv # | 87       |
| 39) 1,2-Dichloropropane       | 4.331  | 63    | 8877m    | 0.474    | ppbv   |          |
| 40) 1,4-Dioxane               | 4.622  | 88    | 4046m    | 0.416    | ppbv   |          |
| 41) Tetrahydrofuran           | 3.078  | 42    | 9880     | 0.477    | ppbv   | 98       |
| 42) Bromodichloromethane      | 4.505  | 83    | 16973    | 0.431    | ppbv # | 96       |
| 43) Methyl Methacrylate       | 4.904  | 69    | 8428     | 0.362    | ppbv   | 93       |
| 44) 2,2,4-Trimethylpentane    | 4.661  | 57    | 40623    | 0.469    | ppbv   | 98       |
| 45) t-1,3-Dichloropropene     | 6.441  | 75    | 8720m    | 0.397    | ppbv   |          |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042044.D  
 Acq On : 25 Feb 2025 10:31  
 Operator : SY/MD  
 Sample : VSTDIC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025  
 Supervised By :Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.629  | 75   | 10834m   | 0.389 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.609  | 97   | 8982m    | 0.456 | ppbv   |          |
| 48) Dibromochloromethane      | 7.406  | 129  | 13014m   | 0.395 | ppbv   |          |
| 49) Bromoform                 | 9.496  | 173  | 11640    | 0.430 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.794  | 43   | 20992m   | 0.377 | ppbv   |          |
| 51) 2-Hexanone                | 7.470  | 43   | 12149m   | 0.267 | ppbv   |          |
| 52) Tetrachloroethene         | 8.241  | 164  | 8012     | 0.450 | ppbv   | 95       |
| 53) Toluene                   | 6.956  | 91   | 24224    | 0.398 | ppbv   | 96       |
| 54) 1,2-Dibromoethane         | 7.674  | 107  | 11718m   | 0.432 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 8.940  | 131  | 11100    | 0.424 | ppbv # | 61       |
| 57) Chlorobenzene             | 8.936  | 112  | 20167    | 0.468 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.370  | 91   | 34506    | 0.431 | ppbv   | 90       |
| 59) m/p-Xylene                | 9.568  | 91   | 54449m   | 0.863 | ppbv   |          |
| 60) o-Xylene                  | 9.979  | 91   | 28757    | 0.451 | ppbv   | 95       |
| 61) Styrene                   | 9.885  | 104  | 12051    | 0.396 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.552 | 105  | 42074    | 0.439 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.975  | 83   | 18774    | 0.456 | ppbv   | 96       |
| 64) n-propylbenzene           | 11.001 | 120  | 10900    | 0.463 | ppbv   | 100      |
| 65) tert-Butylbenzene         | 11.542 | 119  | 38066    | 0.456 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.626 | 91   | 2589     | 0.309 | ppbv # | 96       |
| 67) sec-Butylbenzene          | 11.778 | 105  | 54394    | 0.464 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 11.937 | 119  | 40978    | 0.427 | ppbv   | 95       |
| 70) n-Butylbenzene            | 12.293 | 91   | 42673    | 0.451 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.914 | 91   | 32161    | 0.446 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.137 | 105  | 32477    | 0.434 | ppbv # | 95       |
| 73) 1,3,5-Trimethylbenzene    | 11.215 | 105  | 29130    | 0.452 | ppbv   | 91       |
| 74) 1,2,4-Trimethylbenzene    | 11.548 | 105  | 33950    | 0.491 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.616 | 146  | 20339    | 0.546 | ppbv   | 96       |
| 76) 1,4-Dichlorobenzene       | 11.684 | 146  | 20492    | 0.564 | ppbv   | 93       |
| 77) 1,2-Dichlorobenzene       | 11.959 | 146  | 19373    | 0.544 | ppbv   | 96       |
| 78) Hexachloro-1,3-Butadiene  | 13.892 | 225  | 15367    | 0.522 | ppbv   | 99       |
| 79) Naphthalene               | 13.523 | 128  | 17897    | 0.263 | ppbv # | 95       |
| 80) Naphthalene,2-methyl-     | 14.478 | 142  | 1646     | 0.053 | ppbv # | 81       |
| 81) 1,2,4-Trichlorobenzene    | 13.452 | 180  | 10771    | 0.389 | ppbv   | 94       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042045.D  
 Acq On : 25 Feb 2025 11:03  
 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 02/26/2025  
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.803  | 49    | 161406   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.981  | 114   | 414875   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.904  | 117   | 363831   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.393 | 95    | 276484   | 9.213    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 92.100%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.586  | 62    | 543      | 0.042    | ppbv # | 88       |
| 32) 1,1,1-Trichloroethane     | 3.386  | 97    | 3026     | 0.064    | ppbv # | 86       |
| 35) Carbon Tetrachloride      | 3.787  | 117   | 2923m    | 0.073    | ppbv   |          |
| 38) Trichloroethene           | 4.577  | 130   | 1915m    | 0.094    | ppbv   |          |
| 52) Tetrachloroethene         | 8.254  | 164   | 1552m    | 0.089    | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.678  | 107   | 2335m    | 0.087    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.982  | 83    | 3549m    | 0.087    | ppbv   |          |
| 79) Naphthalene               | 13.529 | 128   | 3058     | 0.045    | ppbv # | 91       |
| -----                         |        |       |          |          |        |          |

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

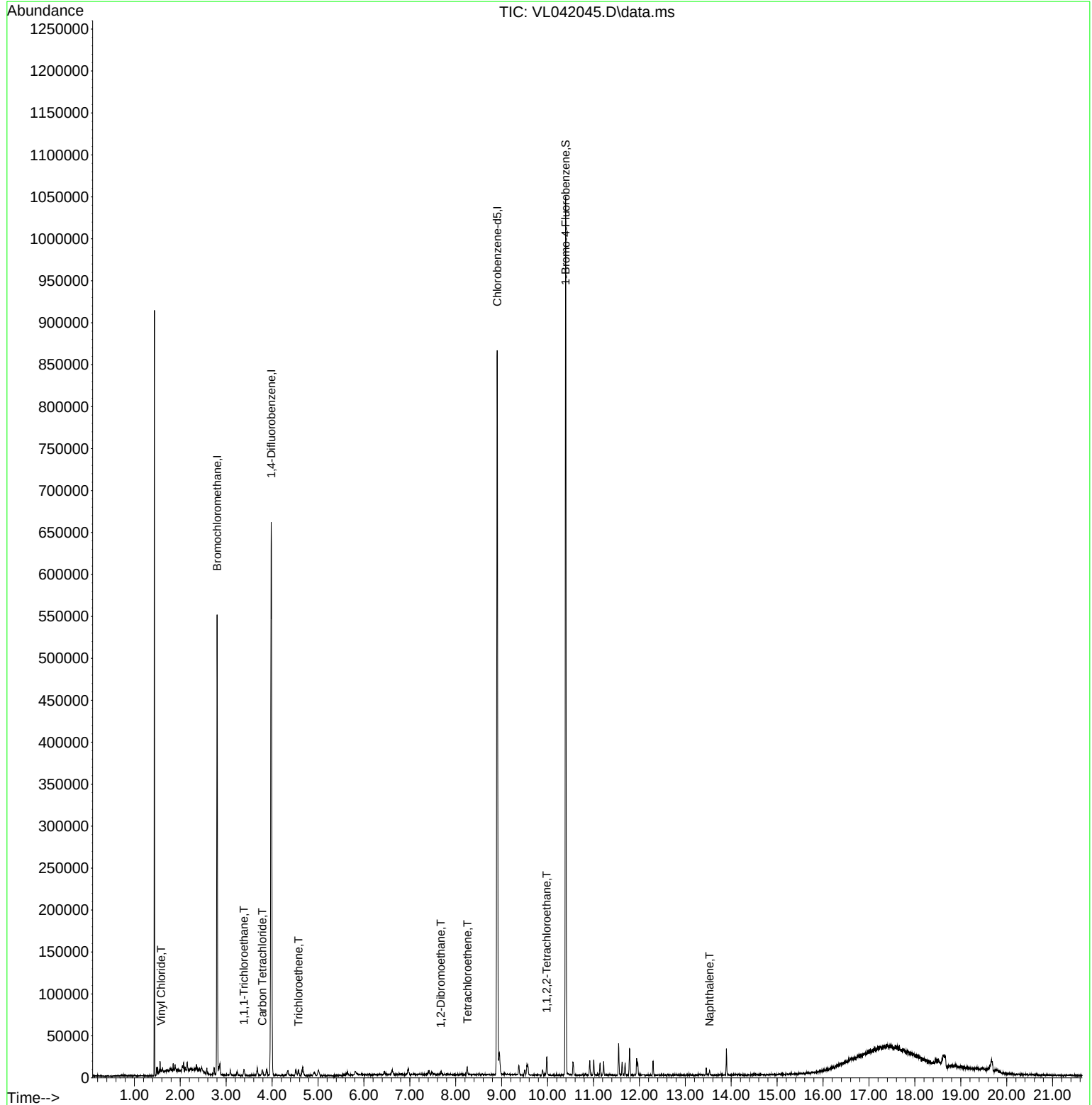
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
Data File : VL042045.D  
Acq On : 25 Feb 2025 11:03  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Feb 25 10:31:48 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042046.D  
 Acq On : 25 Feb 2025 11:34  
 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 02/26/2025  
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.797  | 49    | 160156   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.975  | 114   | 410900   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.898  | 117   | 353154   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.390 | 95    | 272906   | 9.368    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 93.700%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.586  | 62    | 215      | 0.017    | ppbv   | 89       |
| 32) 1,1,1-Trichloroethane     | 3.379  | 97    | 923m     | 0.020    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.784  | 117   | 818m     | 0.021    | ppbv   |          |
| 38) Trichloroethene           | 4.577  | 130   | 551m     | 0.027    | ppbv   |          |
| 52) Tetrachloroethene         | 8.237  | 164   | 397m     | 0.023    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.979  | 83    | 1058m    | 0.027    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

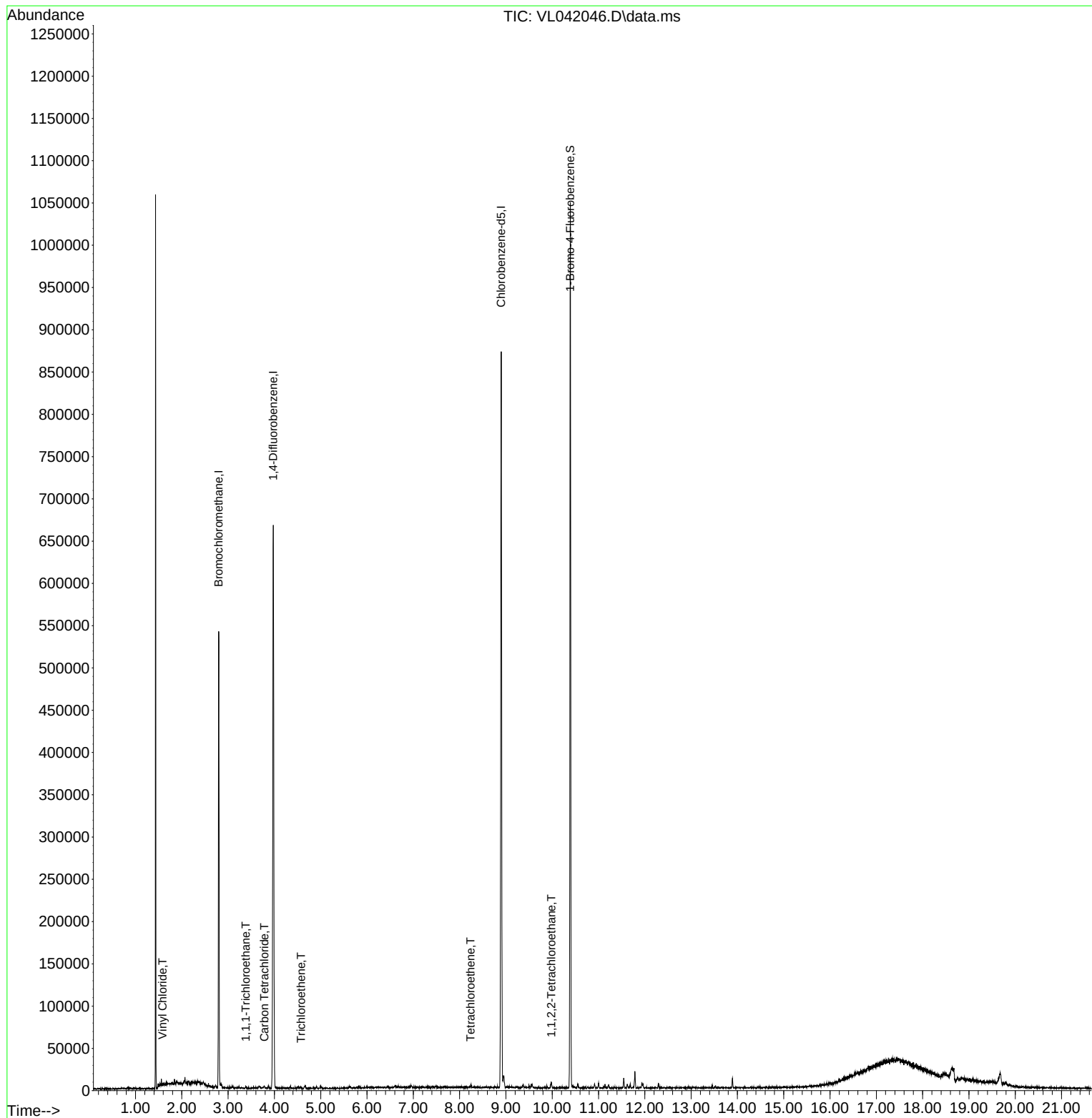
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
Data File : VL042046.D  
Acq On : 25 Feb 2025 11:34  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Quant Time: Feb 25 12:34:19 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Feb 25 10:31:48 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
Supervised By : Mahesh Dadoda 02/26/2025





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042047.D  
 Acq On : 25 Feb 2025 12:07  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.800  | 49    | 159015   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.978  | 114   | 401919   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.904  | 117   | 351637   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.393 | 95    | 273846   | 9.441    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 94.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 231978   | 8.474    | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.479  | 51    | 324821   | 10.733   | ppbv   | 100      |
| 4) Chloromethane              | 1.537  | 50    | 82097    | 7.718    | ppbv   | 98       |
| 5) Vinyl Chloride             | 1.586  | 62    | 81863    | 6.436    | ppbv   | 99       |
| 6) Bromomethane               | 1.673  | 94    | 39366    | 7.983    | ppbv   | 97       |
| 7) Chloroethane               | 1.709  | 64    | 33329    | 8.039    | ppbv   | 92       |
| 8) Dichlorotetrafluoroethane  | 1.560  | 85    | 188716   | 7.837    | ppbv   | 98       |
| 9) Propene                    | 1.489  | 41    | 133086   | 10.201   | ppbv   | 97       |
| 10) Heptane                   | 5.004  | 43    | 400418   | 11.052   | ppbv   | 99       |
| 11) Trichlorofluoromethane    | 1.884  | 101   | 230938   | 8.383    | ppbv   | 95       |
| 12) 1,1,2-Trichlorotrifluo... | 2.149  | 101   | 184306   | 8.579    | ppbv   | 99       |
| 13) Ethanol                   | 1.725  | 45    | 4281     | 2.909    | ppbv   | 100      |
| 14) Bromoethene               | 1.787  | 108   | 65496    | 8.164    | ppbv   | 99       |
| 15) Acetone                   | 1.842  | 43    | 172538   | 6.574    | ppbv   | 98       |
| 16) 1,3-Butadiene             | 1.615  | 39    | 87490    | 7.027    | ppbv   | 100      |
| 17) tert-Butyl alcohol        | 2.049  | 59    | 239569   | 7.377    | ppbv   | 98       |
| 18) 1,1-Dichloroethene        | 2.042  | 96    | 80535    | 7.845    | ppbv   | 98       |
| 19) Isopropyl Alcohol         | 1.894  | 45    | 102365   | 6.955    | ppbv   | 99       |
| 20) Methylene Chloride        | 2.068  | 84    | 66282    | 6.709    | ppbv   | 98       |
| 21) Allyl Chloride            | 2.104  | 41    | 140726   | 7.406    | ppbv   | 99       |
| 22) trans-1,2-Dichloroethene  | 2.350  | 96    | 94321    | 8.466    | ppbv   | 95       |
| 23) Vinyl Acetate             | 2.473  | 43    | 139727   | 9.831    | ppbv   | 99       |
| 24) 1,1-Dichloroethane        | 2.418  | 63    | 180882   | 7.997    | ppbv   | 99       |
| 25) Ethyl Acetate             | 2.848  | 43    | 767353   | 10.652   | ppbv   | 99       |
| 26) Hexane                    | 2.839  | 57    | 306864   | 10.615   | ppbv   | 99       |
| 27) Carbon Disulfide          | 2.159  | 76    | 224609   | 8.261    | ppbv   | 98       |
| 28) Methyl tert-Butyl Ether   | 2.453  | 73    | 168058   | 9.510    | ppbv   | 98       |
| 29) Chloroform                | 2.861  | 83    | 409240   | 9.774    | ppbv   | 100      |
| 30) Cyclohexane               | 3.874  | 84    | 256687   | 10.946   | ppbv   | 98       |
| 31) cis-1,2-Dichloroethene    | 2.732  | 61    | 299324   | 10.476   | ppbv   | 96       |
| 32) 1,1,1-Trichloroethane     | 3.386  | 97    | 417615   | 8.994    | ppbv   | 98       |
| 34) 2-Butanone                | 2.570  | 43    | 457602   | 13.234   | ppbv   | 98       |
| 35) Carbon Tetrachloride      | 3.780  | 117   | 410730   | 10.524   | ppbv   | 96       |
| 36) Benzene                   | 3.674  | 78    | 602107   | 12.367   | ppbv   | 97       |
| 37) 1,2-Dichloroethane        | 3.233  | 62    | 335275   | 12.097   | ppbv   | 99       |
| 38) Trichloroethene           | 4.573  | 130   | 228298   | 11.542   | ppbv   | 98       |
| 39) 1,2-Dichloropropane       | 4.337  | 63    | 228418   | 12.797   | ppbv   | 98       |
| 40) 1,4-Dioxane               | 4.609  | 88    | 104519   | 11.253   | ppbv # | 96       |
| 41) Tetrahydrofuran           | 3.068  | 42    | 271202   | 13.724   | ppbv   | 100      |
| 42) Bromodichloromethane      | 4.512  | 83    | 461272   | 12.285   | ppbv   | 96       |
| 43) Methyl Methacrylate       | 4.907  | 69    | 246468   | 11.105   | ppbv   | 97       |
| 44) 2,2,4-Trimethylpentane    | 4.667  | 57    | 1054880  | 12.763   | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 6.444  | 75    | 249612   | 11.914   | ppbv   | 95       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042047.D  
 Acq On : 25 Feb 2025 12:07  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.635  | 75   | 317266   | 11.935 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.609  | 97   | 226021   | 12.032 | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.412  | 129  | 369666   | 11.750 | ppbv   | 99       |
| 49) Bromoform                 | 9.503  | 173  | 317322   | 12.297 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.787  | 43   | 650307   | 12.237 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.461  | 43   | 530165   | 12.198 | ppbv # | 100      |
| 52) Tetrachloroethene         | 8.247  | 164  | 203233   | 11.968 | ppbv   | 94       |
| 53) Toluene                   | 6.959  | 91   | 673822   | 11.615 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.677  | 107  | 309982   | 11.985 | ppbv   | 95       |
| 56) 1,1,1,2-Tetrachloroethane | 8.946  | 131  | 276326   | 10.979 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.943  | 112  | 494606   | 11.957 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.373  | 91   | 922265   | 11.984 | ppbv   | 100      |
| 59) m/p-Xylene                | 9.571  | 91   | 1456036m | 24.020 | ppbv   |          |
| 60) o-Xylene                  | 9.982  | 91   | 712735   | 11.626 | ppbv   | 99       |
| 61) Styrene                   | 9.888  | 104  | 363855   | 12.446 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.558 | 105  | 1068777  | 11.612 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.982  | 83   | 459839   | 11.626 | ppbv   | 100      |
| 64) n-propylbenzene           | 11.005 | 120  | 282364   | 12.486 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.548 | 119  | 924810   | 11.526 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.633 | 91   | 78975    | 9.819  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.785 | 105  | 1315730  | 11.674 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 1084253  | 11.752 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.296 | 91   | 1118373  | 12.306 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.917 | 91   | 818204   | 11.804 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.141 | 105  | 880883   | 12.264 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.218 | 105  | 738619   | 11.921 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.552 | 105  | 784701   | 11.801 | ppbv   | 91       |
| 75) 1,3-Dichlorobenzene       | 11.623 | 146  | 465436   | 13.003 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.688 | 146  | 467249   | 13.386 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.963 | 146  | 449222   | 13.129 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 351085   | 12.403 | ppbv   | 100      |
| 79) Naphthalene               | 13.526 | 128  | 764990   | 11.696 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 324431   | 10.956 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 354990   | 13.351 | ppbv   | 99       |

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

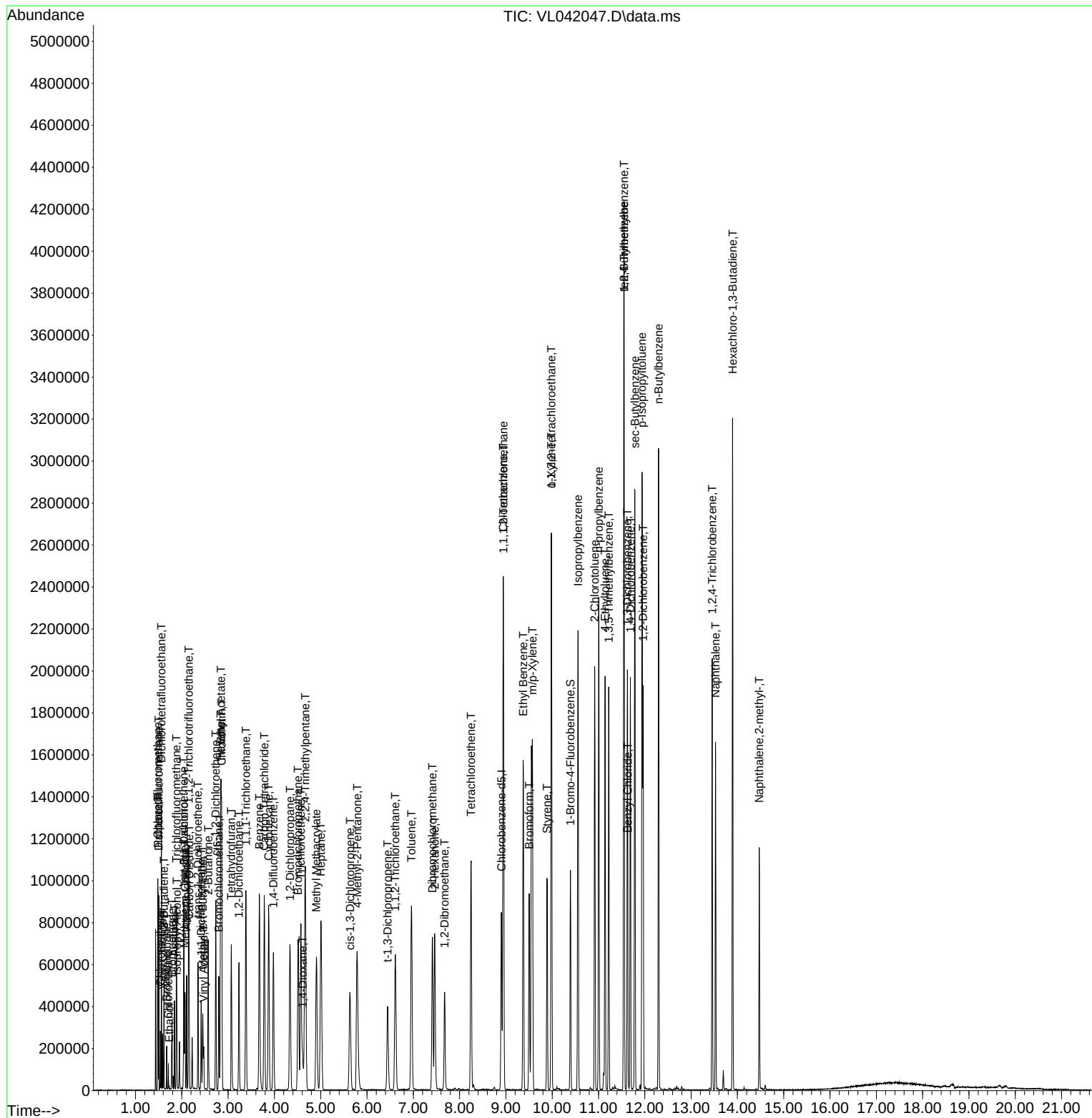
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
Data File : VL042047.D  
Acq On : 25 Feb 2025 12:07  
Operator : SY/MD  
Sample : VSTDIC015  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Quant Time: Feb 25 12:35:10 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Feb 25 10:31:48 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
Supervised By : Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042048.D  
 Acq On : 25 Feb 2025 13:15  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL022525

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.800 | 49   | 158881   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.981 | 114  | 406520   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.904 | 117  | 350262   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 274527 10.188 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.505 | 85  | 158709 | 9.606 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 219646 | 9.512 | ppbv   | 100    |
| 4) Chloromethane              | 1.537 | 50  | 54628  | 8.941 | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.586 | 62  | 52672  | 9.114 | ppbv   | 98     |
| 6) Bromomethane               | 1.673 | 94  | 25374  | 9.221 | ppbv   | 100    |
| 7) Chloroethane               | 1.709 | 64  | 22174  | 9.443 | ppbv # | 87     |
| 8) Dichlorotetrafluoroethane  | 1.560 | 85  | 127046 | 9.354 | ppbv   | 100    |
| 9) Propene                    | 1.489 | 41  | 90844  | 9.657 | ppbv   | 96     |
| 10) Heptane                   | 5.010 | 43  | 269133 | 9.188 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.884 | 101 | 156871 | 9.476 | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 2.149 | 101 | 115089 | 8.715 | ppbv   | 99     |
| 13) Ethanol                   | 1.728 | 45  | 2630   | 4.404 | ppbv   | 98     |
| 14) Bromoethene               | 1.790 | 108 | 43546  | 9.338 | ppbv   | 98     |
| 15) Acetone                   | 1.842 | 43  | 118697 | 8.460 | ppbv   | 97     |
| 16) 1,3-Butadiene             | 1.615 | 39  | 61603  | 9.434 | ppbv   | 98     |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 154116 | 8.779 | ppbv   | 98     |
| 18) 1,1-Dichloroethene        | 2.042 | 96  | 51973  | 8.711 | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 1.894 | 45  | 69546  | 8.629 | ppbv   | 96     |
| 20) Methylene Chloride        | 2.072 | 84  | 42028  | 7.919 | ppbv   | 96     |
| 21) Allyl Chloride            | 2.104 | 41  | 90745  | 8.951 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.350 | 96  | 59140  | 8.502 | ppbv   | 98     |
| 23) Vinyl Acetate             | 2.476 | 43  | 93605  | 9.488 | ppbv # | 98     |
| 24) 1,1-Dichloroethane        | 2.421 | 63  | 112869 | 8.721 | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.852 | 43  | 533113 | 9.492 | ppbv   | 99     |
| 26) Hexane                    | 2.839 | 57  | 208955 | 9.203 | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.159 | 76  | 138176 | 8.978 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 2.453 | 73  | 94554  | 8.365 | ppbv   | 100    |
| 29) Chloroform                | 2.865 | 83  | 281191 | 9.202 | ppbv   | 97     |
| 30) Cyclohexane               | 3.878 | 84  | 168830 | 9.161 | ppbv   | 94     |
| 31) cis-1,2-Dichloroethene    | 2.735 | 61  | 199564 | 9.285 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 3.386 | 97  | 278512 | 9.396 | ppbv   | 98     |
| 34) 2-Butanone                | 2.570 | 43  | 308064 | 9.727 | ppbv   | 97     |
| 35) Carbon Tetrachloride      | 3.784 | 117 | 276599 | 9.867 | ppbv   | 98     |
| 36) Benzene                   | 3.677 | 78  | 399804 | 9.395 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.233 | 62  | 223946 | 9.491 | ppbv   | 99     |
| 38) Trichloroethene           | 4.573 | 130 | 156488 | 9.005 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.340 | 63  | 152063 | 9.414 | ppbv   | 97     |
| 40) 1,4-Dioxane               | 4.616 | 88  | 65010  | 8.817 | ppbv # | 98     |
| 41) Tetrahydrofuran           | 3.072 | 42  | 181453 | 9.696 | ppbv   | 99     |
| 42) Bromodichloromethane      | 4.512 | 83  | 305385 | 9.606 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 4.910 | 69  | 160954 | 9.685 | ppbv   | 95     |
| 44) 2,2,4-Trimethylpentane    | 4.667 | 57  | 712051 | 9.480 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.447 | 75  | 159680 | 9.671 | ppbv   | 90     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042048.D  
 Acq On : 25 Feb 2025 13:15  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.635  | 75   | 206836   | 9.680  | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 6.613  | 97   | 148220   | 9.039  | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.412  | 129  | 241593   | 9.407  | ppbv   | 100      |
| 49) Bromoform                 | 9.503  | 173  | 210370   | 9.432  | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.790  | 43   | 431123   | 10.526 | ppbv   | 98       |
| 51) 2-Hexanone                | 7.464  | 43   | 354515   | 12.576 | ppbv # | 100      |
| 52) Tetrachloroethene         | 8.247  | 164  | 134062   | 9.202  | ppbv   | 97       |
| 53) Toluene                   | 6.962  | 91   | 448495   | 9.430  | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.677  | 107  | 206335   | 9.307  | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.946  | 131  | 182800   | 9.234  | ppbv   | 99       |
| 57) Chlorobenzene             | 8.943  | 112  | 334696   | 9.216  | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.377  | 91   | 613622   | 9.513  | ppbv   | 99       |
| 59) m/p-Xylene                | 9.571  | 91   | 977425m  | 19.041 | ppbv   |          |
| 60) o-Xylene                  | 9.985  | 91   | 481683   | 9.334  | ppbv   | 100      |
| 61) Styrene                   | 9.891  | 104  | 241617   | 9.959  | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.558 | 105  | 729350   | 9.437  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.982  | 83   | 312794   | 9.204  | ppbv   | 99       |
| 64) n-propylbenzene           | 11.008 | 120  | 192704   | 9.506  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.548 | 119  | 632202   | 8.988  | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.633 | 91   | 52645    | 9.808  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.785 | 105  | 914405   | 9.090  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 753761   | 9.418  | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.296 | 91   | 781034   | 9.560  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.917 | 91   | 559993   | 9.399  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.144 | 105  | 602156   | 9.557  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.222 | 105  | 505451   | 9.248  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.555 | 105  | 547176   | 8.891  | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.623 | 146  | 324491   | 9.161  | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.688 | 146  | 322712   | 9.176  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.963 | 146  | 312159   | 9.081  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 228480   | 8.543  | ppbv   | 99       |
| 79) Naphthalene               | 13.529 | 128  | 513148   | 12.160 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.474 | 142  | 198077   | 17.152 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 234354   | 9.965  | ppbv   | 97       |

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042048.D  
 Acq On : 25 Feb 2025 13:15  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Feb 26 01:08:36 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   | 99    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.040 | 0.999  | 3.9   | 104   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.453 | 1.382  | 4.9   | 104   | 0.00     |
| 4    | Chloromethane               | 0.385 | 0.344  | 10.6  | 99    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.364 | 0.332  | 8.8   | 97    | 0.00     |
| 6 T  | Bromomethane                | 0.173 | 0.160  | 7.5   | 98    | 0.00     |
| 7    | Chloroethane                | 0.148 | 0.140  | 5.4   | 102   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 0.855 | 0.800  | 6.4   | 101   | 0.00     |
| 9 T  | Propene                     | 0.592 | 0.572  | 3.4   | 108   | 0.00     |
| 10 T | Heptane                     | 1.844 | 1.694  | 8.1   | 100   | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.042 | 0.987  | 5.3   | 103   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 0.831 | 0.724  | 12.9  | 102   | 0.00     |
| 13   | Ethanol                     | 0.038 | 0.017# | 55.3# | 83    | 0.00     |
| 14 T | Bromoethene                 | 0.293 | 0.274  | 6.5   | 103   | 0.00     |
| 15 T | Acetone                     | 0.883 | 0.747  | 15.4  | 103   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.411 | 0.388  | 5.6   | 107   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.105 | 0.970  | 12.2  | 101   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.376 | 0.327  | 13.0  | 101   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.507 | 0.438  | 13.6  | 103   | 0.00     |
| 20 T | Methylene Chloride          | 0.334 | 0.265  | 20.7  | 100   | 0.00     |
| 21 T | Allyl Chloride              | 0.638 | 0.571  | 10.5  | 105   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.438 | 0.372  | 15.1  | 103   | 0.00     |
| 23 T | Vinyl Acetate               | 0.621 | 0.589  | 5.2   | 112   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 0.815 | 0.710  | 12.9  | 105   | 0.00     |
| 25 T | Ethyl Acetate               | 3.535 | 3.355  | 5.1   | 104   | 0.00     |
| 26 T | Hexane                      | 1.429 | 1.315  | 8.0   | 101   | 0.00     |
| 27 T | Carbon Disulfide            | 0.969 | 0.870  | 10.2  | 100   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.711 | 0.595  | 16.3  | 112   | 0.00     |
| 29 T | Chloroform                  | 1.923 | 1.770  | 8.0   | 101   | 0.00     |
| 30 T | Cyclohexane                 | 1.160 | 1.063  | 8.4   | 97    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.353 | 1.256  | 7.2   | 100   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.866 | 1.753  | 6.1   | 98    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 96    | 0.00     |
| 34 T | 2-Butanone                  | 0.779 | 0.758  | 2.7   | 105   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.690 | 0.680  | 1.4   | 100   | 0.00     |
| 36 T | Benzene                     | 1.047 | 0.983  | 6.1   | 98    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.580 | 0.551  | 5.0   | 102   | 0.00     |
| 38 T | Trichloroethene             | 0.427 | 0.385  | 9.8   | 98    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.397 | 0.374  | 5.8   | 101   | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.181 | 0.160  | 11.6  | 94    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.460 | 0.446  | 3.0   | 103   | 0.00     |
| 42 T | Bromodichloromethane        | 0.782 | 0.751  | 4.0   | 98    | 0.00     |
| 43   | Methyl Methacrylate         | 0.409 | 0.396  | 3.2   | 97    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.848 | 1.752  | 5.2   | 101   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.406 | 0.393  | 3.2   | 96    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.526 | 0.509  | 3.2   | 95    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.403 | 0.365  | 9.4   | 97    | 0.00     |
| 48 T | Dibromochloromethane        | 0.632 | 0.594  | 6.0   | 96    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
Data File : VL042048.D  
Acq On : 25 Feb 2025 13:15  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL022525

Quant Time: Feb 26 01:31:59 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 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                 | 0.549 | 0.517 | 5.8    | 95    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 1.008 | 1.061 | -5.3   | 101   | 0.00     |
| 51 T | 2-Hexanone                | 0.693 | 0.872 | -25.8  | 101   | 0.00     |
| 52 T | Tetrachloroethene         | 0.358 | 0.330 | 7.8    | 97    | 0.00     |
| 53 T | Toluene                   | 1.170 | 1.103 | 5.7    | 97    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.545 | 0.508 | 6.8    | 98    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.565 | 0.522 | 7.6    | 97    | 0.00     |
| 57 T | Chlorobenzene             | 1.037 | 0.956 | 7.8    | 98    | 0.00     |
| 58 T | Ethyl Benzene             | 1.842 | 1.752 | 4.9    | 97    | 0.00     |
| 59 T | m/p-Xylene                | 1.466 | 1.395 | 4.8    | 98    | 0.02     |
| 60 T | o-Xylene                  | 1.473 | 1.375 | 6.7    | 98    | 0.00     |
| 61 T | Styrene                   | 0.693 | 0.690 | 0.4    | 98    | 0.00     |
| 62   | Isopropylbenzene          | 2.207 | 2.082 | 5.7    | 99    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.970 | 0.893 | 7.9    | 99    | 0.00     |
| 64   | n-propylbenzene           | 0.579 | 0.550 | 5.0    | 98    | 0.00     |
| 65   | tert-Butylbenzene         | 2.008 | 1.805 | 10.1   | 97    | 0.00     |
| 66 T | Benzyl Chloride           | 0.153 | 0.150 | 2.0    | 92    | 0.00     |
| 67   | sec-Butylbenzene          | 2.872 | 2.611 | 9.1    | 98    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.769 | 0.784 | -2.0   | 96    | 0.00     |
| 69   | p-Isopropyltoluene        | 2.285 | 2.152 | 5.8    | 100   | 0.00     |
| 70   | n-Butylbenzene            | 2.332 | 2.230 | 4.4    | 101   | 0.00     |
| 71   | 2-Chlorotoluene           | 1.701 | 1.599 | 6.0    | 99    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.799 | 1.719 | 4.4    | 99    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.560 | 1.443 | 7.5    | 98    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.757 | 1.562 | 11.1   | 99    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 1.011 | 0.926 | 8.4    | 100   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 1.004 | 0.921 | 8.3    | 100   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.981 | 0.891 | 9.2    | 100   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.764 | 0.652 | 14.7   | 96    | 0.00     |
| 79 T | Naphthalene               | 1.205 | 1.465 | -21.6  | 100   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.330 | 0.566 | -71.5# | 94    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.671 | 0.669 | 0.3    | 97    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

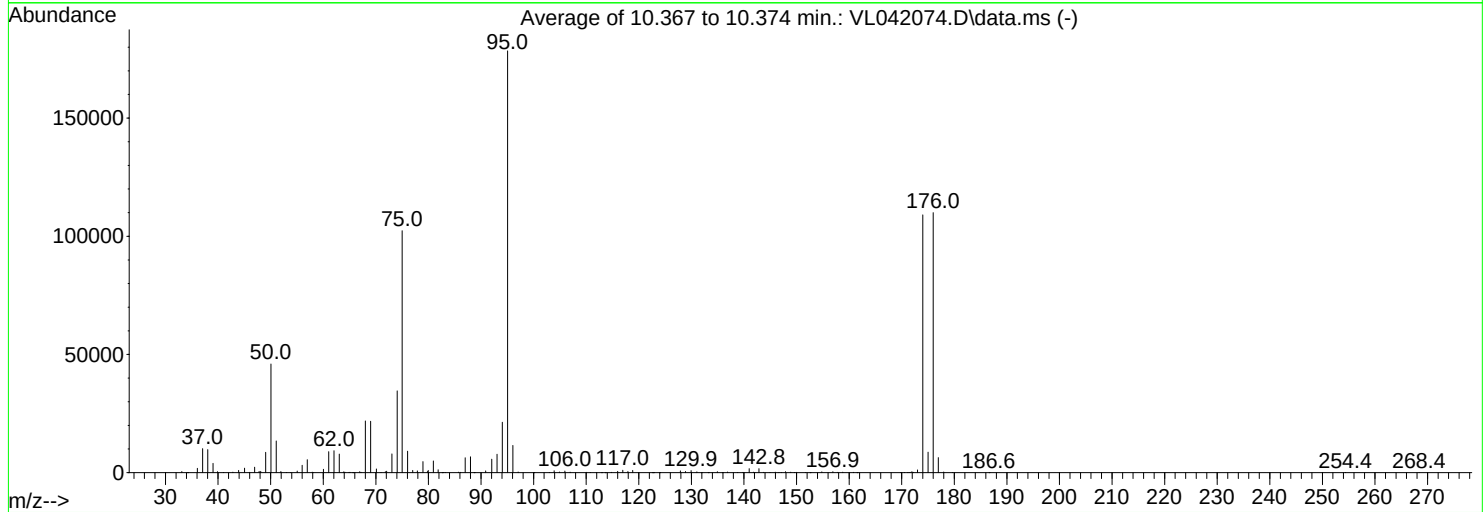
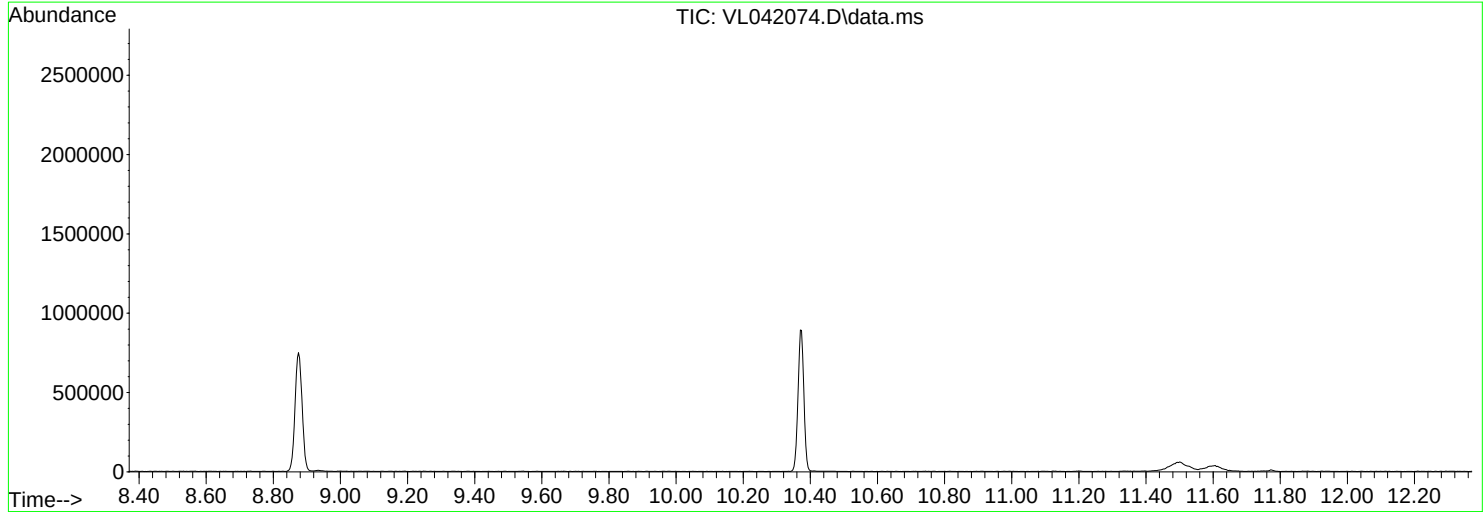


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
Data File : VL042074.D  
Acq On : 03 Mar 2025 11:45  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3176, 3177, 3178; 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     | 25.8  | 45971  | PASS      |
| 75     | 95      | 30     | 66     | 57.4  | 102347 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 178453 | PASS      |
| 96     | 95      | 5      | 9      | 6.5   | 11542  | PASS      |
| 173    | 174     | 0.00   | 2      | 1.0   | 1135   | PASS      |
| 174    | 95      | 50     | 120    | 61.1  | 109091 | PASS      |
| 175    | 174     | 4      | 9      | 7.9   | 8641   | PASS      |
| 176    | 174     | 93     | 101    | 100.9 | 110029 | PASS      |
| 177    | 176     | 5      | 9      | 5.8   | 6386   | PASS      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
 Data File : VL042075.D  
 Acq On : 03 Mar 2025 12:15  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Mar 04 00:16:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/04/2025  
 Supervised By : Mahesh Dadoda 03/05/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 173325   | 10.000 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 409365   | 10.000 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 8.875 | 117  | 350236   | 10.000 | ppbv  | -0.03    |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 273654 10.156 ppbv -0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.600%

#### Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.495 | 85  | 176895 | 9.815  | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 1.473 | 51  | 229308 | 9.103  | ppbv   | 100    |
| 4) Chloromethane              | 1.531 | 50  | 61184  | 9.180  | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.576 | 62  | 60317  | 9.567  | ppbv   | 100    |
| 6) Bromomethane               | 1.664 | 94  | 30156  | 10.045 | ppbv   | 92     |
| 7) Chloroethane               | 1.703 | 64  | 24074  | 9.398  | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 1.550 | 85  | 144041 | 9.722  | ppbv   | 99     |
| 9) Propene                    | 1.482 | 41  | 95116  | 9.268  | ppbv   | 99     |
| 10) Heptane                   | 4.972 | 43  | 285343 | 8.930  | ppbv   | 96     |
| 11) Trichlorofluoromethane    | 1.874 | 101 | 187492 | 10.382 | ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 142259 | 9.875  | ppbv   | 98     |
| 13) Ethanol                   | 1.719 | 45  | 3376   | 5.182  | ppbv   | 95     |
| 14) Bromoethene               | 1.780 | 108 | 48570  | 9.548  | ppbv   | 100    |
| 15) Acetone                   | 1.832 | 43  | 133956 | 8.752  | ppbv   | 99     |
| 16) 1,3-Butadiene             | 1.605 | 39  | 64990  | 9.124  | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 2.036 | 59  | 174843 | 9.130  | ppbv   | 97     |
| 18) 1,1-Dichloroethene        | 2.029 | 96  | 62817  | 9.651  | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 79667  | 9.061  | ppbv   | 100    |
| 20) Methylene Chloride        | 2.059 | 84  | 53086  | 9.169  | ppbv   | 97     |
| 21) Allyl Chloride            | 2.091 | 41  | 107750 | 9.743  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.337 | 96  | 72547  | 9.561  | ppbv   | 93     |
| 23) Vinyl Acetate             | 2.460 | 43  | 89888  | 8.352  | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 136644 | 9.678  | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.832 | 43  | 563012 | 9.189  | ppbv   | 99     |
| 26) Hexane                    | 2.822 | 57  | 216702 | 8.749  | ppbv   | 94     |
| 27) Carbon Disulfide          | 2.146 | 76  | 166324 | 9.906  | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 2.437 | 73  | 102443 | 8.307  | ppbv   | 99     |
| 29) Chloroform                | 2.845 | 83  | 294142 | 8.824  | ppbv   | 100    |
| 30) Cyclohexane               | 3.852 | 84  | 170364 | 8.474  | ppbv   | 91     |
| 31) cis-1,2-Dichloroethene    | 2.716 | 61  | 209328 | 8.928  | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane     | 3.363 | 97  | 275584 | 8.522  | ppbv   | 94     |
| 34) 2-Butanone                | 2.554 | 43  | 324639 | 10.179 | ppbv   | 96     |
| 35) Carbon Tetrachloride      | 3.755 | 117 | 281106 | 9.958  | ppbv   | 93     |
| 36) Benzene                   | 3.651 | 78  | 410714 | 9.584  | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.214 | 62  | 235420 | 9.908  | ppbv   | 98     |
| 38) Trichloroethene           | 4.541 | 130 | 154616 | 8.836  | ppbv   | 99     |
| 39) 1,2-Dichloropropane       | 4.308 | 63  | 159010 | 9.776  | ppbv   | 95     |
| 40) 1,4-Dioxane               | 4.577 | 88  | 69401  | 9.347  | ppbv # | 99     |
| 41) Tetrahydrofuran           | 3.052 | 42  | 189509 | 10.057 | ppbv   | 97     |
| 42) Bromodichloromethane      | 4.483 | 83  | 315387 | 9.852  | ppbv   | 97     |
| 43) Methyl Methacrylate       | 4.871 | 69  | 160485 | 9.589  | ppbv   | 92     |
| 44) 2,2,4-Trimethylpentane    | 4.635 | 57  | 731737 | 9.675  | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 6.409 | 75  | 150198 | 9.033  | ppbv   | 89     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
 Data File : VL042075.D  
 Acq On : 03 Mar 2025 12:15  
 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 03/04/2025  
 Supervised By : Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:16:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.590  | 75   | 201389   | 9.360  | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 6.574  | 97   | 155548   | 9.419  | ppbv   | 94       |
| 48) Dibromochloromethane      | 7.380  | 129  | 244551   | 9.456  | ppbv   | 99       |
| 49) Bromoform                 | 9.477  | 173  | 215068   | 9.576  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.742  | 43   | 451104   | 10.937 | ppbv   | 97       |
| 51) 2-Hexanone                | 7.428  | 43   | 364047   | 12.824 | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.218  | 164  | 135049   | 9.205  | ppbv   | 96       |
| 53) Toluene                   | 6.926  | 91   | 448652   | 9.368  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 207672   | 9.302  | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.917  | 131  | 186364   | 9.414  | ppbv   | 99       |
| 57) Chlorobenzene             | 8.917  | 112  | 344415   | 9.485  | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.351  | 91   | 617808   | 9.578  | ppbv   | 99       |
| 59) m/p-Xylene                | 9.545  | 91   | 999203m  | 19.467 | ppbv   |          |
| 60) o-Xylene                  | 9.959  | 91   | 499183   | 9.674  | ppbv   | 99       |
| 61) Styrene                   | 9.865  | 104  | 239891   | 9.888  | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.535 | 105  | 742029   | 9.602  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.956  | 83   | 327826   | 9.647  | ppbv   | 99       |
| 64) n-propylbenzene           | 10.985 | 120  | 194972   | 9.618  | ppbv   | 95       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 655219   | 9.316  | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.613 | 91   | 44259    | 8.247  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 956463   | 9.509  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 773774   | 9.669  | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.280 | 91   | 803607   | 9.837  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 568423   | 9.541  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 607815   | 9.647  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 516320   | 9.447  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.532 | 105  | 569704   | 9.257  | ppbv # | 91       |
| 75) 1,3-Dichlorobenzene       | 11.603 | 146  | 332997   | 9.402  | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 334533   | 9.513  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.943 | 146  | 328836   | 9.567  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 235840   | 8.819  | ppbv   | 98       |
| 79) Naphthalene               | 13.510 | 128  | 519908   | 12.321 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 193268   | 16.737 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 237980   | 10.120 | ppbv   | 98       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
Data File : VL042075.D  
Acq On : 03 Mar 2025 12:15  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Mar 04 00:16:36 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 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   | 108   | -0.02    |
| 2 T  | Dichlorodifluoromethane     | 1.040 | 1.021  | 1.8   | 116   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.453 | 1.323  | 8.9   | 109   | 0.00     |
| 4    | Chloromethane               | 0.385 | 0.353  | 8.3   | 111   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.364 | 0.348  | 4.4   | 111   | 0.00     |
| 6 T  | Bromomethane                | 0.173 | 0.174  | -0.6  | 117   | 0.00     |
| 7    | Chloroethane                | 0.148 | 0.139  | 6.1   | 111   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 0.855 | 0.831  | 2.8   | 115   | 0.00     |
| 9 T  | Propene                     | 0.592 | 0.549  | 7.3   | 113   | 0.00     |
| 10 T | Heptane                     | 1.844 | 1.646  | 10.7  | 107   | -0.04    |
| 11 T | Trichlorofluoromethane      | 1.042 | 1.082  | -3.8  | 123   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 0.831 | 0.821  | 1.2   | 127   | 0.00     |
| 13   | Ethanol                     | 0.038 | 0.019# | 50.0# | 106   | 0.00     |
| 14 T | Bromoethene                 | 0.293 | 0.280  | 4.4   | 114   | 0.00     |
| 15 T | Acetone                     | 0.883 | 0.773  | 12.5  | 116   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.411 | 0.375  | 8.8   | 113   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.105 | 1.009  | 8.7   | 114   | -0.01    |
| 18 T | 1,1-Dichloroethene          | 0.376 | 0.362  | 3.7   | 122   | -0.01    |
| 19 T | Isopropyl Alcohol           | 0.507 | 0.460  | 9.3   | 118   | 0.00     |
| 20 T | Methylene Chloride          | 0.334 | 0.306  | 8.4   | 126   | 0.00     |
| 21 T | Allyl Chloride              | 0.638 | 0.622  | 2.5   | 124   | -0.01    |
| 22 T | trans-1,2-Dichloroethene    | 0.438 | 0.419  | 4.3   | 126   | -0.01    |
| 23 T | Vinyl Acetate               | 0.621 | 0.519  | 16.4  | 107   | -0.01    |
| 24 T | 1,1-Dichloroethane          | 0.815 | 0.788  | 3.3   | 127   | -0.01    |
| 25 T | Ethyl Acetate               | 3.535 | 3.248  | 8.1   | 110   | -0.02    |
| 26 T | Hexane                      | 1.429 | 1.250  | 12.5  | 105   | -0.02    |
| 27 T | Carbon Disulfide            | 0.969 | 0.960  | 0.9   | 121   | -0.01    |
| 28 T | Methyl tert-Butyl Ether     | 0.711 | 0.591  | 16.9  | 122   | -0.01    |
| 29 T | Chloroform                  | 1.923 | 1.697  | 11.8  | 106   | -0.02    |
| 30 T | Cyclohexane                 | 1.160 | 0.983  | 15.3  | 98    | -0.02    |
| 31 T | cis-1,2-Dichloroethene      | 1.353 | 1.208  | 10.7  | 105   | -0.02    |
| 32 T | 1,1,1-Trichloroethane       | 1.866 | 1.590  | 14.8  | 97    | -0.02    |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 97    | -0.03    |
| 34 T | 2-Butanone                  | 0.779 | 0.793  | -1.8  | 111   | -0.02    |
| 35 T | Carbon Tetrachloride        | 0.690 | 0.687  | 0.4   | 102   | -0.03    |
| 36 T | Benzene                     | 1.047 | 1.003  | 4.2   | 100   | -0.02    |
| 37 T | 1,2-Dichloroethane          | 0.580 | 0.575  | 0.9   | 107   | -0.02    |
| 38 T | Trichloroethene             | 0.427 | 0.378  | 11.5  | 97    | -0.03    |
| 39 T | 1,2-Dichloropropane         | 0.397 | 0.388  | 2.3   | 105   | -0.03    |
| 40 T | 1,4-Dioxane                 | 0.181 | 0.170  | 6.1   | 100   | -0.03    |
| 41 T | Tetrahydrofuran             | 0.460 | 0.463  | -0.7  | 107   | -0.02    |
| 42 T | Bromodichloromethane        | 0.782 | 0.770  | 1.5   | 101   | -0.03    |
| 43   | Methyl Methacrylate         | 0.409 | 0.392  | 4.2   | 97    | -0.04    |
| 44 T | 2,2,4-Trimethylpentane      | 1.848 | 1.787  | 3.3   | 104   | -0.03    |
| 45 T | t-1,3-Dichloropropene       | 0.406 | 0.367  | 9.6   | 90    | -0.04    |
| 46 T | cis-1,3-Dichloropropene     | 0.526 | 0.492  | 6.5   | 92    | -0.04    |
| 47 T | 1,1,2-Trichloroethane       | 0.403 | 0.380  | 5.7   | 102   | -0.04    |
| 48 T | Dibromochloromethane        | 0.632 | 0.597  | 5.5   | 97    | -0.03    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
 Data File : VL042075.D  
 Acq On : 03 Mar 2025 12:15  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Mar 04 00:16:36 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Feb 26 01:08:36 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                 | 0.549 | 0.525 | 4.4    | 97    | -0.03    |
| 50 T | 4-Methyl-2-Pentanone      | 1.008 | 1.102 | -9.3   | 105   | -0.05    |
| 51 T | 2-Hexanone                | 0.693 | 0.889 | -28.3  | 103   | -0.04    |
| 52 T | Tetrachloroethene         | 0.358 | 0.330 | 7.8    | 98    | -0.03    |
| 53 T | Toluene                   | 1.170 | 1.096 | 6.3    | 98    | -0.03    |
| 54 T | 1,2-Dibromoethane         | 0.545 | 0.507 | 7.0    | 98    | -0.03    |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 94    | -0.03    |
| 56   | 1,1,1,2-Tetrachloroethane | 0.565 | 0.532 | 5.8    | 99    | -0.03    |
| 57 T | Chlorobenzene             | 1.037 | 0.983 | 5.2    | 101   | -0.02    |
| 58 T | Ethyl Benzene             | 1.842 | 1.764 | 4.2    | 97    | -0.02    |
| 59 T | m/p-Xylene                | 1.466 | 1.426 | 2.7    | 100   | 0.00     |
| 60 T | o-Xylene                  | 1.473 | 1.425 | 3.3    | 101   | -0.02    |
| 61 T | Styrene                   | 0.693 | 0.685 | 1.2    | 97    | -0.02    |
| 62   | Isopropylbenzene          | 2.207 | 2.119 | 4.0    | 101   | -0.02    |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.970 | 0.936 | 3.5    | 103   | -0.02    |
| 64   | n-propylbenzene           | 0.579 | 0.557 | 3.8    | 99    | -0.02    |
| 65   | tert-Butylbenzene         | 2.008 | 1.871 | 6.8    | 101   | -0.02    |
| 66 T | Benzyl Chloride           | 0.153 | 0.126 | 17.6   | 77    | -0.02    |
| 67   | sec-Butylbenzene          | 2.872 | 2.731 | 4.9    | 103   | -0.02    |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.769 | 0.781 | -1.6   | 96    | -0.02    |
| 69   | p-Isopropyltoluene        | 2.285 | 2.209 | 3.3    | 102   | -0.02    |
| 70   | n-Butylbenzene            | 2.332 | 2.294 | 1.6    | 104   | -0.02    |
| 71   | 2-Chlorotoluene           | 1.701 | 1.623 | 4.6    | 100   | -0.02    |
| 72 T | 4-Ethyltoluene            | 1.799 | 1.735 | 3.6    | 100   | -0.02    |
| 73 T | 1,3,5-Trimethylbenzene    | 1.560 | 1.474 | 5.5    | 100   | -0.02    |
| 74 T | 1,2,4-Trimethylbenzene    | 1.757 | 1.627 | 7.4    | 104   | -0.02    |
| 75 T | 1,3-Dichlorobenzene       | 1.011 | 0.951 | 5.9    | 102   | -0.02    |
| 76 T | 1,4-Dichlorobenzene       | 1.004 | 0.955 | 4.9    | 104   | -0.02    |
| 77 T | 1,2-Dichlorobenzene       | 0.981 | 0.939 | 4.3    | 105   | -0.02    |
| 78 T | Hexachloro-1,3-Butadiene  | 0.764 | 0.673 | 11.9   | 99    | -0.02    |
| 79 T | Naphthalene               | 1.205 | 1.484 | -23.2  | 101   | -0.02    |
| 80 T | Naphthalene,2-methyl-     | 0.330 | 0.552 | -67.3# | 92    | -0.02    |
| 81 T | 1,2,4-Trichlorobenzene    | 0.671 | 0.679 | -1.2   | 99    | -0.02    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
Data File : VL042076.D  
Acq On : 03 Mar 2025 14:49  
Operator : SY/MD  
Sample : VL0303ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0303ABL01

Quant Time: Mar 04 00:17:34 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 156551   | 10.000 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 349743   | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 302717   | 10.000 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 224142   | 9.624    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 96.200% |

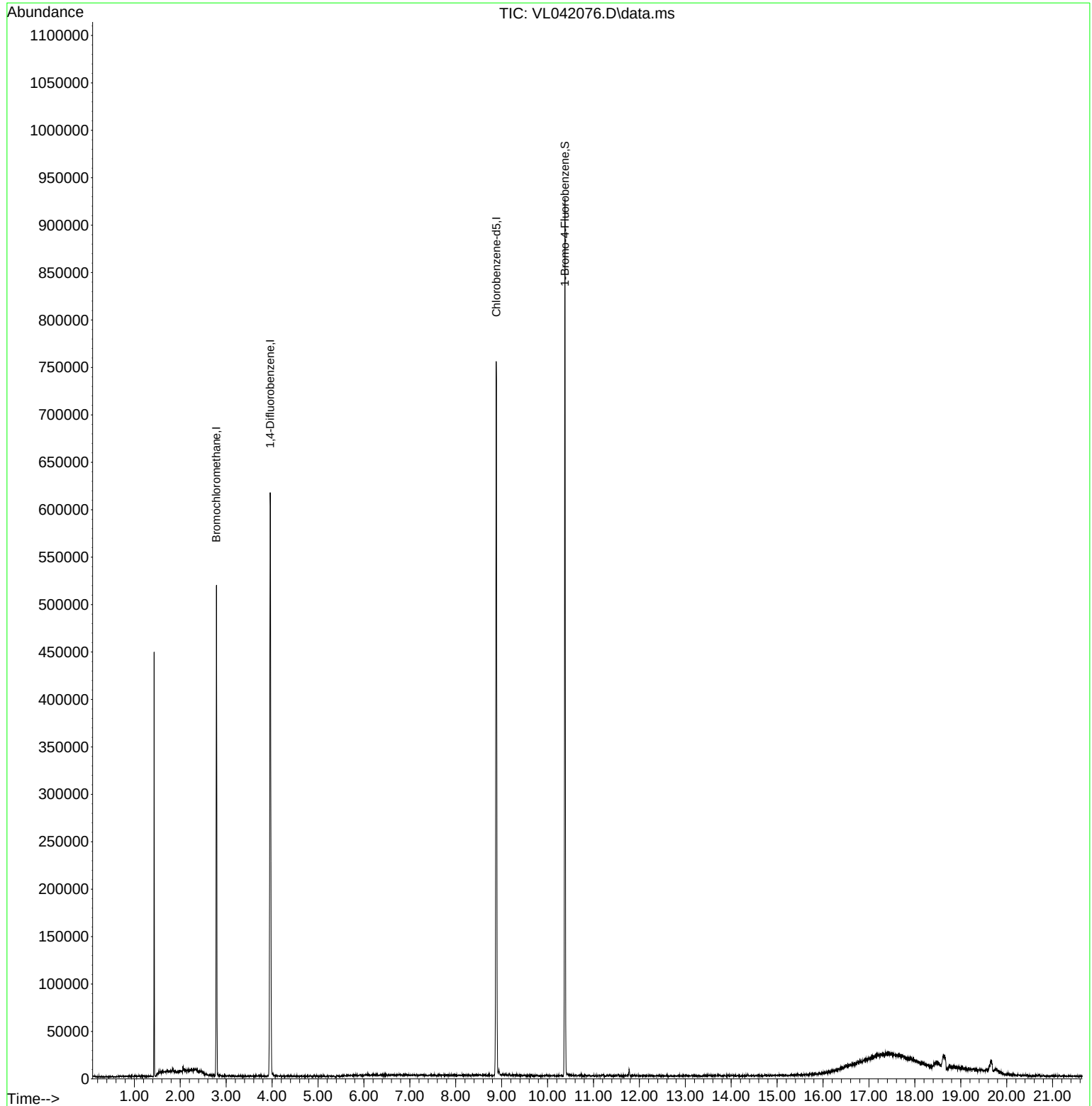
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
Data File : VL042076.D  
Acq On : 03 Mar 2025 14:49  
Operator : SY/MD  
Sample : VL0303ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0303ABL01

Quant Time: Mar 04 00:17:34 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
 Data File : VL042077.D  
 Acq On : 03 Mar 2025 15:19  
 Operator : SY/MD  
 Sample : VL0303ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0303ABS01

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025  
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:17:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 157956   | 10.000 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 356972   | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 309763   | 10.000 | ppbv  | -0.02    |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 242622 10.181 ppbv -0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.800%

#### Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 174930 | 10.650 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 222297 | 9.683  | ppbv   | 100    |
| 4) Chloromethane              | 1.531 | 50  | 62156  | 10.233 | ppbv   | 97     |
| 5) Vinyl Chloride             | 1.580 | 62  | 59385  | 10.336 | ppbv   | 100    |
| 6) Bromomethane               | 1.667 | 94  | 28458  | 10.402 | ppbv   | 97     |
| 7) Chloroethane               | 1.703 | 64  | 24205  | 10.368 | ppbv   | 93     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 142918 | 10.584 | ppbv   | 98     |
| 9) Propene                    | 1.483 | 41  | 90270  | 9.652  | ppbv   | 98     |
| 10) Heptane                   | 4.978 | 43  | 279114 | 9.585  | ppbv   | 97     |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 191850 | 11.657 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 147601 | 11.243 | ppbv   | 95     |
| 13) Ethanol                   | 1.722 | 45  | 3648   | 6.145  | ppbv   | 97     |
| 14) Bromoethene               | 1.780 | 108 | 48227  | 10.403 | ppbv   | 100    |
| 15) Acetone                   | 1.835 | 43  | 137515 | 9.858  | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.609 | 39  | 64593  | 9.950  | ppbv   | 97     |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 167124 | 9.576  | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 61659  | 10.394 | ppbv   | 91     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 78936  | 9.851  | ppbv   | 98     |
| 20) Methylene Chloride        | 2.062 | 84  | 52065  | 9.868  | ppbv   | 96     |
| 21) Allyl Chloride            | 2.098 | 41  | 105683 | 10.486 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 70753  | 10.232 | ppbv   | 93     |
| 23) Vinyl Acetate             | 2.463 | 43  | 74937  | 7.640  | ppbv   | 98     |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 137183 | 10.661 | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.836 | 43  | 548497 | 9.824  | ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 207965 | 9.213  | ppbv   | 92     |
| 27) Carbon Disulfide          | 2.149 | 76  | 168252 | 10.996 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 94112  | 8.374  | ppbv   | 100    |
| 29) Chloroform                | 2.849 | 83  | 286765 | 9.439  | ppbv   | 97     |
| 30) Cyclohexane               | 3.858 | 84  | 163145 | 8.905  | ppbv   | 91     |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 199200 | 9.322  | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 3.370 | 97  | 269140 | 9.133  | ppbv   | 95     |
| 34) 2-Butanone                | 2.557 | 43  | 313084 | 11.258 | ppbv   | 95     |
| 35) Carbon Tetrachloride      | 3.765 | 117 | 268731 | 10.917 | ppbv   | 96     |
| 36) Benzene                   | 3.658 | 78  | 390842 | 10.459 | ppbv   | 96     |
| 37) 1,2-Dichloroethane        | 3.218 | 62  | 227067 | 10.959 | ppbv   | 98     |
| 38) Trichloroethene           | 4.551 | 130 | 148971 | 9.762  | ppbv   | 94     |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 151311 | 10.668 | ppbv   | 96     |
| 40) 1,4-Dioxane               | 4.587 | 88  | 67241  | 10.385 | ppbv # | 91     |
| 41) Tetrahydrofuran           | 3.056 | 42  | 183578 | 11.172 | ppbv   | 93     |
| 42) Bromodichloromethane      | 4.490 | 83  | 302583 | 10.839 | ppbv   | 100    |
| 43) Methyl Methacrylate       | 4.881 | 69  | 150871 | 10.338 | ppbv   | 91     |
| 44) 2,2,4-Trimethylpentane    | 4.638 | 57  | 718377 | 10.892 | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 139814 | 9.643  | ppbv   | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
 Data File : VL042077.D  
 Acq On : 03 Mar 2025 15:19  
 Operator : SY/MD  
 Sample : VL0303ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0303ABS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025  
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:17:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 189075   | 10.077 | ppbv   | 95       |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 146747   | 10.191 | ppbv   | 97       |
| 48) Dibromochloromethane      | 7.390  | 129  | 229765   | 10.188 | ppbv   | 99       |
| 49) Bromoform                 | 9.487  | 173  | 205188   | 10.477 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 434273   | 12.074 | ppbv   | 95       |
| 51) 2-Hexanone                | 7.438  | 43   | 347904   | 14.054 | ppbv # | 96       |
| 52) Tetrachloroethene         | 8.225  | 164  | 128803   | 10.068 | ppbv   | 97       |
| 53) Toluene                   | 6.933  | 91   | 428586   | 10.262 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 199250   | 10.235 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 181131   | 10.346 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.924  | 112  | 328409   | 10.225 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.357  | 91   | 596825   | 10.462 | ppbv   | 100      |
| 59) m/p-Xylene                | 9.552  | 91   | 977538m  | 21.533 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 488769   | 10.710 | ppbv   | 100      |
| 61) Styrene                   | 9.872  | 104  | 226533   | 10.558 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.542 | 105  | 733758   | 10.735 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 327069   | 10.882 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.992 | 120  | 192573   | 10.741 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 643195   | 10.340 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.617 | 91   | 39375    | 8.295  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 940060   | 10.567 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 759761   | 10.734 | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.283 | 91   | 795433   | 11.010 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 553780   | 10.510 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 592316   | 10.629 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 508702   | 10.524 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 557804   | 10.248 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 328061   | 10.473 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 328671   | 10.568 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 324906   | 10.688 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 232449   | 9.827  | ppbv   | 99       |
| 79) Naphthalene               | 13.517 | 128  | 503470   | 13.490 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 184155   | 18.031 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 227832   | 10.954 | ppbv   | 98       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
Data File : VL042078.D  
Acq On : 03 Mar 2025 15:52  
Operator : SY/MD  
Sample : QC022725 CAN 10331  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC022725 CAN 10331

Quant Time: Mar 04 00:18:48 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 158432   | 10.000 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 3.955 | 114  | 355709   | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 304769   | 10.000 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 223606   | 9.537    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 95.400% |

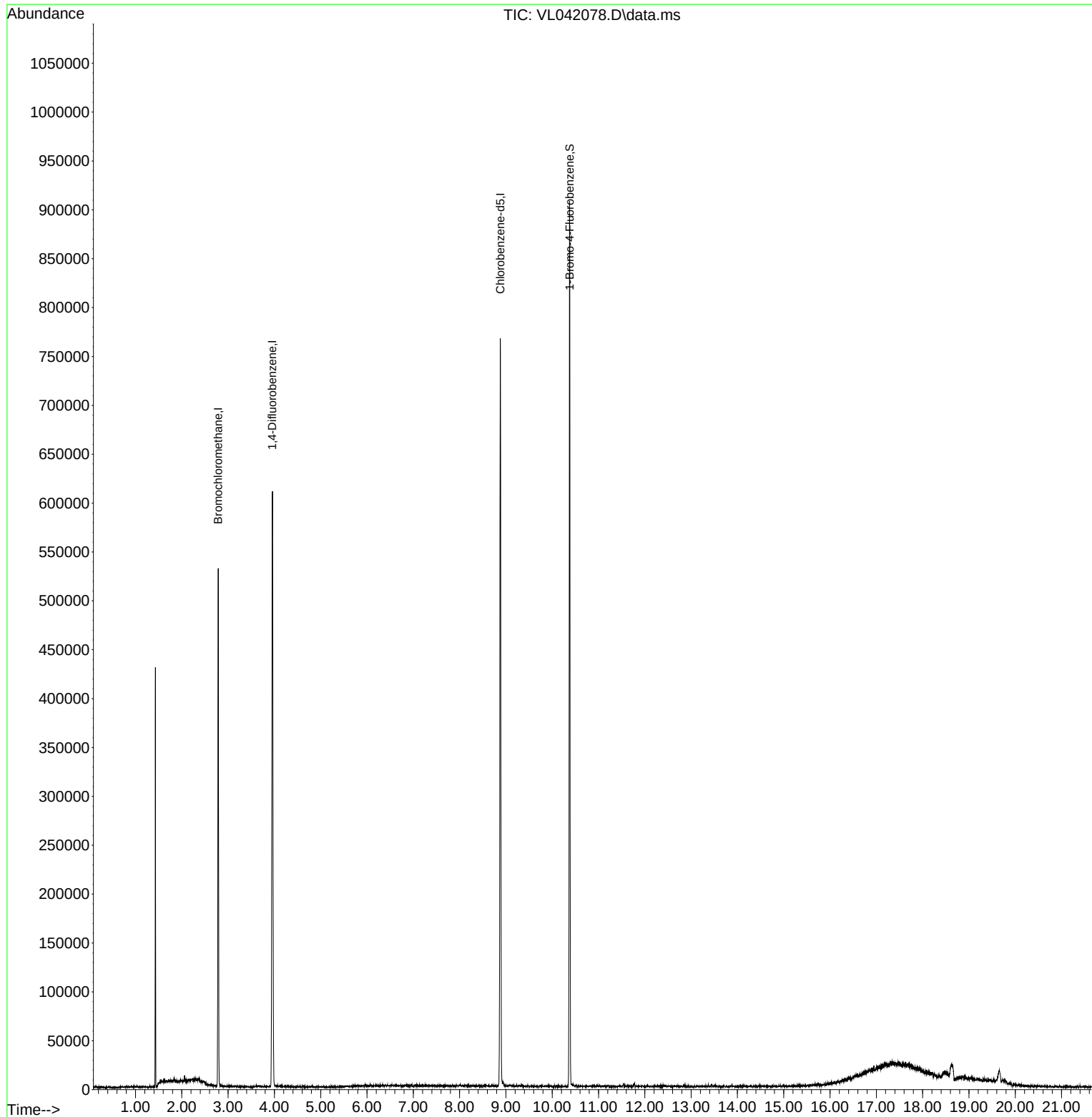
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
Data File : VL042078.D  
Acq On : 03 Mar 2025 15:52  
Operator : SY/MD  
Sample : QC022725 CAN 10331  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC022725 CAN 10331

Quant Time: Mar 04 00:18:48 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration

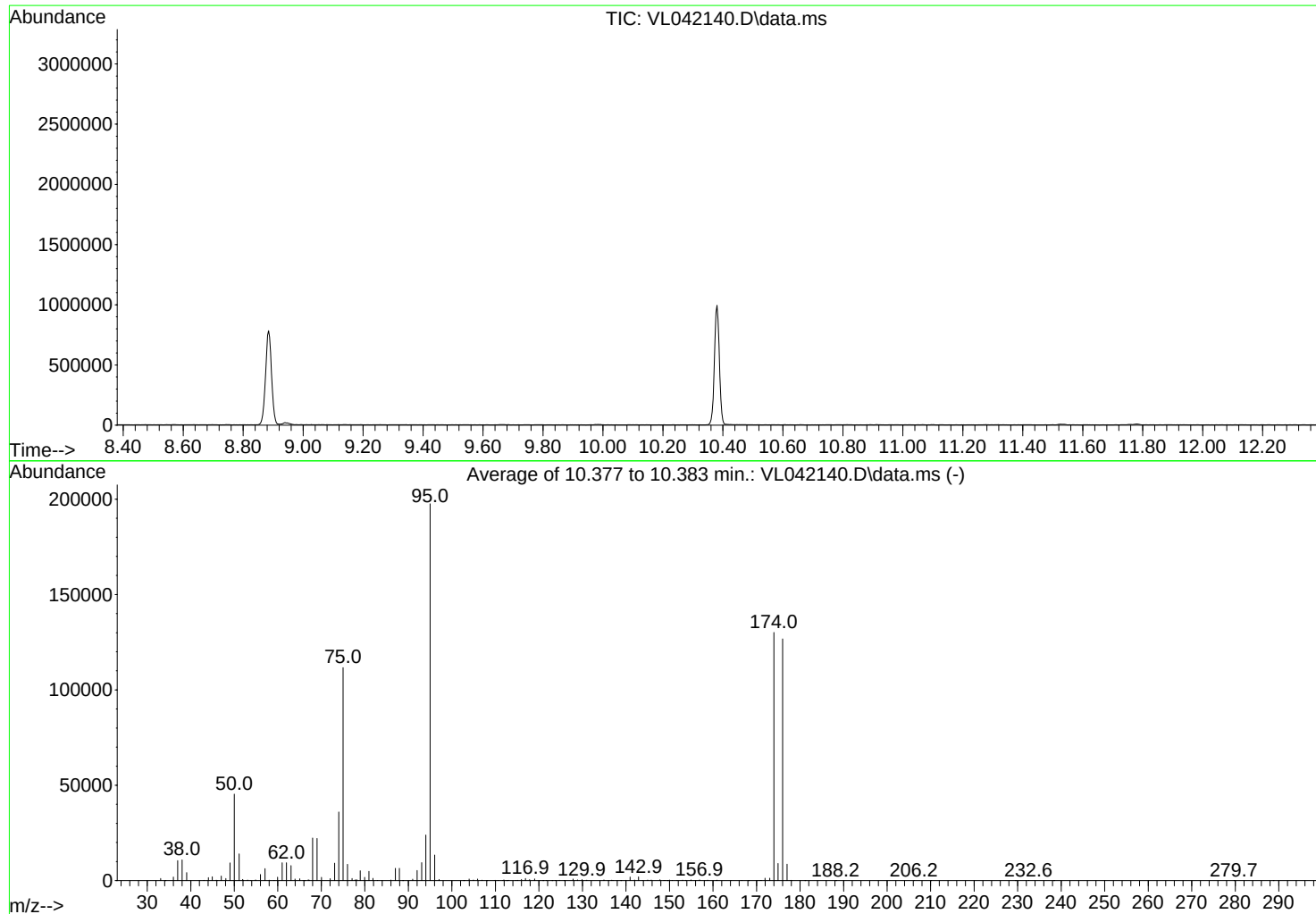


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL031425\  
Data File : VL042140.D  
Acq On : 14 Mar 2025 07:56  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 22.9  | 45333  | PASS      |
| 75     | 95      | 30     | 66     | 56.5  | 111685 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 197589 | PASS      |
| 96     | 95      | 5      | 9      | 6.8   | 13388  | PASS      |
| 173    | 174     | 0.00   | 2      | 1.0   | 1315   | PASS      |
| 174    | 95      | 50     | 120    | 65.9  | 130120 | PASS      |
| 175    | 174     | 4      | 9      | 6.9   | 8967   | PASS      |
| 176    | 174     | 93     | 101    | 97.4  | 126715 | PASS      |
| 177    | 176     | 5      | 9      | 6.8   | 8618   | PASS      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL031425\  
 Data File : VL042141.D  
 Acq On : 14 Mar 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: Mar 14 23:16:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/17/2025  
 Supervised By : Mahesh Dadoda 03/17/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 175939   | 10.000 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 420429   | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 358414   | 10.000 | ppbv  | -0.02    |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 293332 10.638 ppbv -0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.400%

#### Target Compounds

|                                 |       |     |        |        |        | Qvalue |
|---------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane      | 1.499 | 85  | 191974 | 10.493 | ppbv   | 100    |
| 3) Chlorodifluoromethane        | 1.476 | 51  | 228149 | 8.922  | ppbv   | 100    |
| 4) Chloromethane                | 1.532 | 50  | 72618  | 10.733 | ppbv   | 97     |
| 5) Vinyl Chloride               | 1.580 | 62  | 70955  | 11.087 | ppbv   | 96     |
| 6) Bromomethane                 | 1.667 | 94  | 34387  | 11.284 | ppbv   | 97     |
| 7) Chloroethane                 | 1.703 | 64  | 27399  | 10.537 | ppbv   | 94     |
| 8) Dichlorotetrafluoroethane    | 1.554 | 85  | 161623 | 10.746 | ppbv   | 98     |
| 9) Propene                      | 1.483 | 41  | 95933  | 9.209  | ppbv   | 98     |
| 10) Heptane                     | 4.979 | 43  | 269945 | 8.323  | ppbv   | 98     |
| 11) Trichlorofluoromethane      | 1.875 | 101 | 202929 | 11.070 | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluoro... | 2.137 | 101 | 150319 | 10.280 | ppbv   | 96     |
| 13) Ethanol                     | 1.719 | 45  | 5940   | 8.982  | ppbv   | 91     |
| 14) Bromoethene                 | 1.781 | 108 | 55223  | 10.694 | ppbv   | 99     |
| 15) Acetone                     | 1.836 | 43  | 157921 | 10.164 | ppbv   | 98     |
| 16) 1,3-Butadiene               | 1.609 | 39  | 76015  | 10.513 | ppbv   | 99     |
| 17) tert-Butyl alcohol          | 2.040 | 59  | 177586 | 9.136  | ppbv   | 100    |
| 18) 1,1-Dichloroethene          | 2.033 | 96  | 64716  | 9.795  | ppbv   | 92     |
| 19) Isopropyl Alcohol           | 1.884 | 45  | 90039  | 10.088 | ppbv   | 96     |
| 20) Methylene Chloride          | 2.059 | 84  | 64336  | 10.947 | ppbv   | 97     |
| 21) Allyl Chloride              | 2.095 | 41  | 113949 | 10.150 | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene    | 2.341 | 96  | 80485  | 10.449 | ppbv   | 90     |
| 23) Vinyl Acetate               | 2.460 | 43  | 94433  | 8.644  | ppbv   | 99     |
| 24) 1,1-Dichloroethane          | 2.409 | 63  | 154561 | 10.784 | ppbv   | 99     |
| 25) Ethyl Acetate               | 2.836 | 43  | 552236 | 8.880  | ppbv   | 99     |
| 26) Hexane                      | 2.823 | 57  | 224625 | 8.934  | ppbv   | 98     |
| 27) Carbon Disulfide            | 2.150 | 76  | 186073 | 10.918 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether     | 2.438 | 73  | 106326 | 8.494  | ppbv   | 99     |
| 29) Chloroform                  | 2.849 | 83  | 296552 | 8.764  | ppbv   | 99     |
| 30) Cyclohexane                 | 3.855 | 84  | 163459 | 8.010  | ppbv   | 95     |
| 31) cis-1,2-Dichloroethene      | 2.719 | 61  | 193004 | 8.109  | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane       | 3.367 | 97  | 268630 | 8.184  | ppbv   | 95     |
| 34) 2-Butanone                  | 2.558 | 43  | 305355 | 9.323  | ppbv   | 96     |
| 35) Carbon Tetrachloride        | 3.762 | 117 | 279849 | 9.653  | ppbv   | 99     |
| 36) Benzene                     | 3.655 | 78  | 399974 | 9.088  | ppbv   | 95     |
| 37) 1,2-Dichloroethane          | 3.218 | 62  | 217321 | 8.906  | ppbv   | 100    |
| 38) Trichloroethene             | 4.548 | 130 | 152158 | 8.466  | ppbv   | 96     |
| 39) 1,2-Dichloropropane         | 4.315 | 63  | 150906 | 9.033  | ppbv   | 96     |
| 40) 1,4-Dioxane                 | 4.580 | 88  | 67340  | 8.830  | ppbv # | 99     |
| 41) Tetrahydrofuran             | 3.056 | 42  | 174452 | 9.014  | ppbv   | 98     |
| 42) Bromodichloromethane        | 4.487 | 83  | 307764 | 9.361  | ppbv   | 93     |
| 43) Methyl Methacrylate         | 4.881 | 69  | 145265 | 8.451  | ppbv   | 96     |
| 44) 2,2,4-Trimethylpentane      | 4.635 | 57  | 717940 | 9.243  | ppbv   | 98     |
| 45) t-1,3-Dichloropropene       | 6.412 | 75  | 135149 | 7.914  | ppbv   | 95     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL031425\  
 Data File : VL042141.D  
 Acq On : 14 Mar 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 03/17/2025  
 Supervised By : Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:16:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

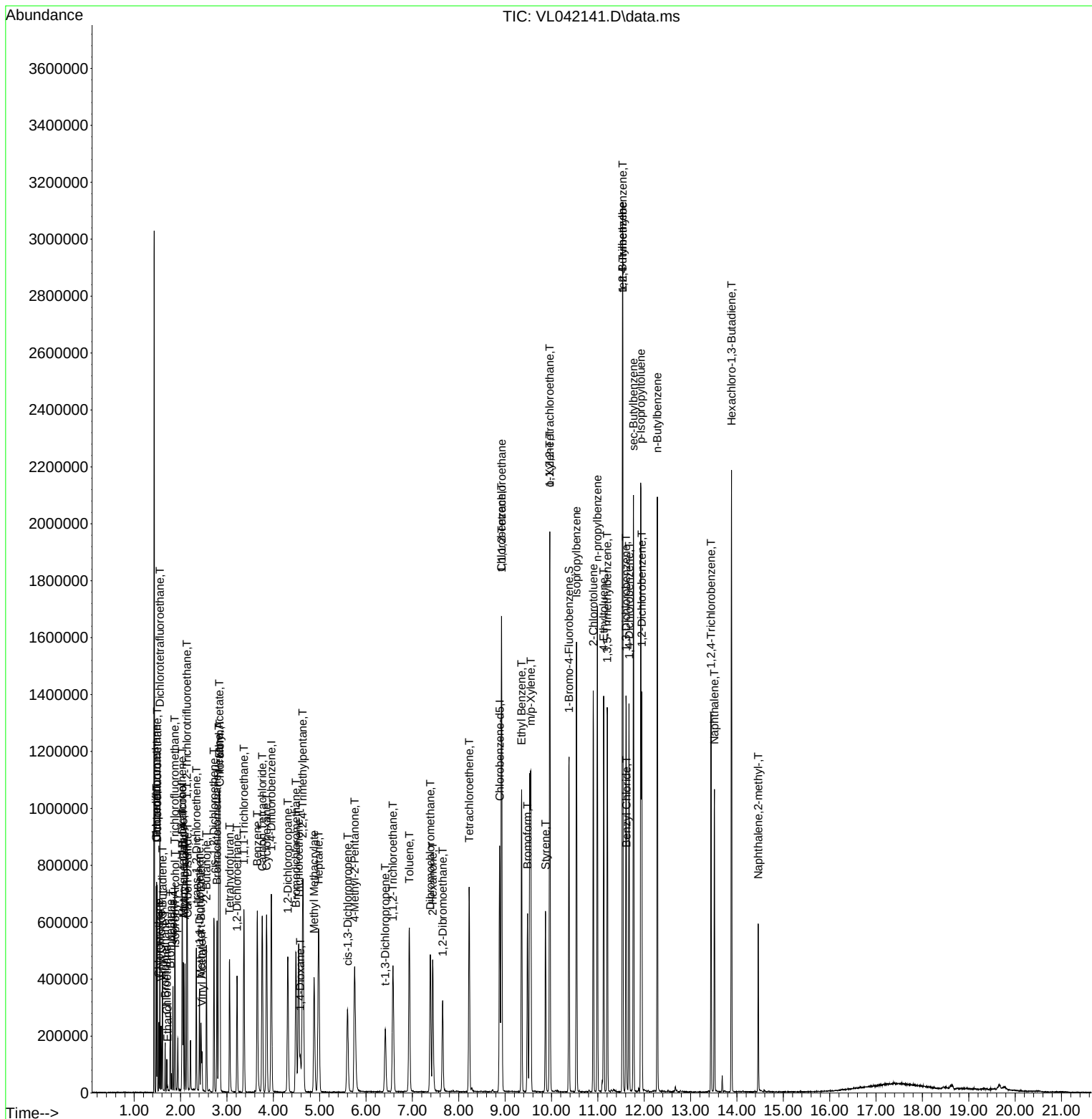
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.603  | 75   | 183303   | 8.295  | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.581  | 97   | 154904   | 9.134  | ppbv   | 96       |
| 48) Dibromochloromethane      | 7.387  | 129  | 239456   | 9.015  | ppbv   | 98       |
| 49) Bromoform                 | 9.484  | 173  | 213827   | 9.270  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.755  | 43   | 408504   | 9.644  | ppbv   | 96       |
| 51) 2-Hexanone                | 7.438  | 43   | 316988   | 10.872 | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.225  | 164  | 129959   | 8.625  | ppbv   | 98       |
| 53) Toluene                   | 6.933  | 91   | 423735   | 8.614  | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 201881   | 8.805  | ppbv   | 90       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 192287   | 9.492  | ppbv   | 100      |
| 57) Chlorobenzene             | 8.921  | 112  | 344848   | 9.280  | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.354  | 91   | 572580   | 8.675  | ppbv   | 100      |
| 59) m/p-Xylene                | 9.552  | 91   | 960961m  | 18.294 | ppbv   |          |
| 60) o-Xylene                  | 9.963  | 91   | 485048   | 9.185  | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 211885   | 8.535  | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.539 | 105  | 718498   | 9.085  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 341487   | 9.820  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.989 | 120  | 196285   | 9.462  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 11.533 | 119  | 655886   | 9.113  | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.617 | 91   | 45818    | 8.342  | ppbv   | 97       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 924266   | 8.979  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.928 | 119  | 753153   | 9.197  | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.280 | 91   | 771737   | 9.232  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.902 | 91   | 537863   | 8.822  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 585082   | 9.074  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.203 | 105  | 494157   | 8.836  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 560827   | 8.905  | ppbv   | 92       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 336601   | 9.287  | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 327927   | 9.113  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 330229   | 9.389  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.883 | 225  | 230108   | 8.408  | ppbv   | 99       |
| 79) Naphthalene               | 13.514 | 128  | 481899   | 11.160 | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.459 | 142  | 151227   | 12.797 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 219258   | 9.111  | ppbv   | 99       |

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



## Manual Integrations APPROVED

Quant Time: Mar 14 23:16:35 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL02252SAIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL031425\  
 Data File : VL042141.D  
 Acq On : 14 Mar 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: Mar 14 23:16:35 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Feb 26 01:08:36 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   | 109   | -0.02    |
| 2 T  | Dichlorodifluoromethane     | 1.040 | 1.091  | -4.9  | 126   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.453 | 1.297  | 10.7  | 108   | 0.00     |
| 4    | Chloromethane               | 0.385 | 0.413  | -7.3  | 131   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.364 | 0.403  | -10.7 | 131   | 0.00     |
| 6 T  | Bromomethane                | 0.173 | 0.195  | -12.7 | 133   | 0.00     |
| 7    | Chloroethane                | 0.148 | 0.156  | -5.4  | 126   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 0.855 | 0.919  | -7.5  | 129   | 0.00     |
| 9 T  | Propene                     | 0.592 | 0.545  | 7.9   | 114   | 0.00     |
| 10 T | Heptane                     | 1.844 | 1.534  | 16.8  | 101   | -0.03    |
| 11 T | Trichlorofluoromethane      | 1.042 | 1.153  | -10.7 | 133   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 0.831 | 0.854  | -2.8  | 134   | 0.00     |
| 13   | Ethanol                     | 0.038 | 0.034# | 10.5  | 187#  | 0.00     |
| 14 T | Bromoethene                 | 0.293 | 0.314  | -7.2  | 130   | 0.00     |
| 15 T | Acetone                     | 0.883 | 0.898  | -1.7  | 137   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.411 | 0.432  | -5.1  | 132   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.105 | 1.009  | 8.7   | 116   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.376 | 0.368  | 2.1   | 126   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.507 | 0.512  | -1.0  | 133   | 0.00     |
| 20 T | Methylene Chloride          | 0.334 | 0.366  | -9.6  | 153#  | 0.00     |
| 21 T | Allyl Chloride              | 0.638 | 0.648  | -1.6  | 131   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.438 | 0.457  | -4.3  | 140   | 0.00     |
| 23 T | Vinyl Acetate               | 0.621 | 0.537  | 13.5  | 113   | -0.01    |
| 24 T | 1,1-Dichloroethane          | 0.815 | 0.878  | -7.7  | 143   | 0.00     |
| 25 T | Ethyl Acetate               | 3.535 | 3.139  | 11.2  | 108   | -0.02    |
| 26 T | Hexane                      | 1.429 | 1.277  | 10.6  | 109   | -0.02    |
| 27 T | Carbon Disulfide            | 0.969 | 1.058  | -9.2  | 135   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.711 | 0.604  | 15.0  | 126   | -0.01    |
| 29 T | Chloroform                  | 1.923 | 1.686  | 12.3  | 107   | -0.01    |
| 30 T | Cyclohexane                 | 1.160 | 0.929  | 19.9  | 94    | -0.02    |
| 31 T | cis-1,2-Dichloroethene      | 1.353 | 1.097  | 18.9  | 97    | -0.01    |
| 32 T | 1,1,1-Trichloroethane       | 1.866 | 1.527  | 18.2  | 94    | -0.02    |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 99    | -0.02    |
| 34 T | 2-Butanone                  | 0.779 | 0.726  | 6.8   | 104   | -0.01    |
| 35 T | Carbon Tetrachloride        | 0.690 | 0.666  | 3.5   | 101   | -0.02    |
| 36 T | Benzene                     | 1.047 | 0.951  | 9.2   | 98    | -0.02    |
| 37 T | 1,2-Dichloroethane          | 0.580 | 0.517  | 10.9  | 99    | -0.02    |
| 38 T | Trichloroethene             | 0.427 | 0.362  | 15.2  | 95    | -0.02    |
| 39 T | 1,2-Dichloropropane         | 0.397 | 0.359  | 9.6   | 100   | -0.02    |
| 40 T | 1,4-Dioxane                 | 0.181 | 0.160  | 11.6  | 97    | -0.03    |
| 41 T | Tetrahydrofuran             | 0.460 | 0.415  | 9.8   | 99    | -0.02    |
| 42 T | Bromodichloromethane        | 0.782 | 0.732  | 6.4   | 99    | -0.03    |
| 43   | Methyl Methacrylate         | 0.409 | 0.346  | 15.4  | 88    | -0.03    |
| 44 T | 2,2,4-Trimethylpentane      | 1.848 | 1.708  | 7.6   | 102   | -0.03    |
| 45 T | t-1,3-Dichloropropene       | 0.406 | 0.321  | 20.9  | 81    | -0.03    |
| 46 T | cis-1,3-Dichloropropene     | 0.526 | 0.436  | 17.1  | 84    | -0.03    |
| 47 T | 1,1,2-Trichloroethane       | 0.403 | 0.368  | 8.7   | 102   | -0.03    |
| 48 T | Dibromochloromethane        | 0.632 | 0.570  | 9.8   | 95    | -0.03    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL031425\  
 Data File : VL042141.D  
 Acq On : 14 Mar 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: Mar 14 23:16:35 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Feb 26 01:08:36 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                 | 0.549 | 0.509 | 7.3   | 96    | -0.02    |
| 50 T | 4-Methyl-2-Pentanone      | 1.008 | 0.972 | 3.6   | 95    | -0.03    |
| 51 T | 2-Hexanone                | 0.693 | 0.754 | -8.8  | 90    | -0.03    |
| 52 T | Tetrachloroethene         | 0.358 | 0.309 | 13.7  | 94    | -0.02    |
| 53 T | Toluene                   | 1.170 | 1.008 | 13.8  | 92    | -0.03    |
| 54 T | 1,2-Dibromoethane         | 0.545 | 0.480 | 11.9  | 95    | -0.03    |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 96    | -0.02    |
| 56   | 1,1,1,2-Tetrachloroethane | 0.565 | 0.536 | 5.1   | 102   | -0.02    |
| 57 T | Chlorobenzene             | 1.037 | 0.962 | 7.2   | 101   | -0.02    |
| 58 T | Ethyl Benzene             | 1.842 | 1.598 | 13.2  | 90    | -0.02    |
| 59 T | m/p-Xylene                | 1.466 | 1.341 | 8.5   | 97    | 0.00     |
| 60 T | o-Xylene                  | 1.473 | 1.353 | 8.1   | 98    | -0.02    |
| 61 T | Styrene                   | 0.693 | 0.591 | 14.7  | 86    | -0.02    |
| 62   | Isopropylbenzene          | 2.207 | 2.005 | 9.2   | 98    | -0.02    |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.970 | 0.953 | 1.8   | 108   | -0.02    |
| 64   | n-propylbenzene           | 0.579 | 0.548 | 5.4   | 100   | -0.02    |
| 65   | tert-Butylbenzene         | 2.008 | 1.830 | 8.9   | 101   | -0.01    |
| 66 T | Benzyl Chloride           | 0.153 | 0.128 | 16.3  | 80    | -0.01    |
| 67   | sec-Butylbenzene          | 2.872 | 2.579 | 10.2  | 100   | -0.01    |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.769 | 0.818 | -6.4  | 103   | -0.02    |
| 69   | p-Isopropyltoluene        | 2.285 | 2.101 | 8.1   | 100   | -0.01    |
| 70   | n-Butylbenzene            | 2.332 | 2.153 | 7.7   | 100   | -0.02    |
| 71   | 2-Chlorotoluene           | 1.701 | 1.501 | 11.8  | 95    | -0.02    |
| 72 T | 4-Ethyltoluene            | 1.799 | 1.632 | 9.3   | 96    | -0.02    |
| 73 T | 1,3,5-Trimethylbenzene    | 1.560 | 1.379 | 11.6  | 96    | -0.02    |
| 74 T | 1,2,4-Trimethylbenzene    | 1.757 | 1.565 | 10.9  | 102   | -0.02    |
| 75 T | 1,3-Dichlorobenzene       | 1.011 | 0.939 | 7.1   | 104   | -0.02    |
| 76 T | 1,4-Dichlorobenzene       | 1.004 | 0.915 | 8.9   | 102   | -0.01    |
| 77 T | 1,2-Dichlorobenzene       | 0.981 | 0.921 | 6.1   | 106   | -0.02    |
| 78 T | Hexachloro-1,3-Butadiene  | 0.764 | 0.642 | 16.0  | 97    | -0.01    |
| 79 T | Naphthalene               | 1.205 | 1.345 | -11.6 | 94    | -0.01    |
| 80 T | Naphthalene,2-methyl-     | 0.330 | 0.422 | -27.9 | 72    | -0.01    |
| 81 T | 1,2,4-Trichlorobenzene    | 0.671 | 0.612 | 8.8   | 91    | -0.02    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL031425\  
Data File : VL042142.D  
Acq On : 14 Mar 2025 09:23  
Operator : SY/MD  
Sample : VL0314ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0314ABL01

Quant Time: Mar 14 23:17:29 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 167826   | 10.000 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 3.958 | 114  | 392046   | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 329113   | 10.000 | ppbv  | -0.02    |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 250856   | 9.907    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.100% |

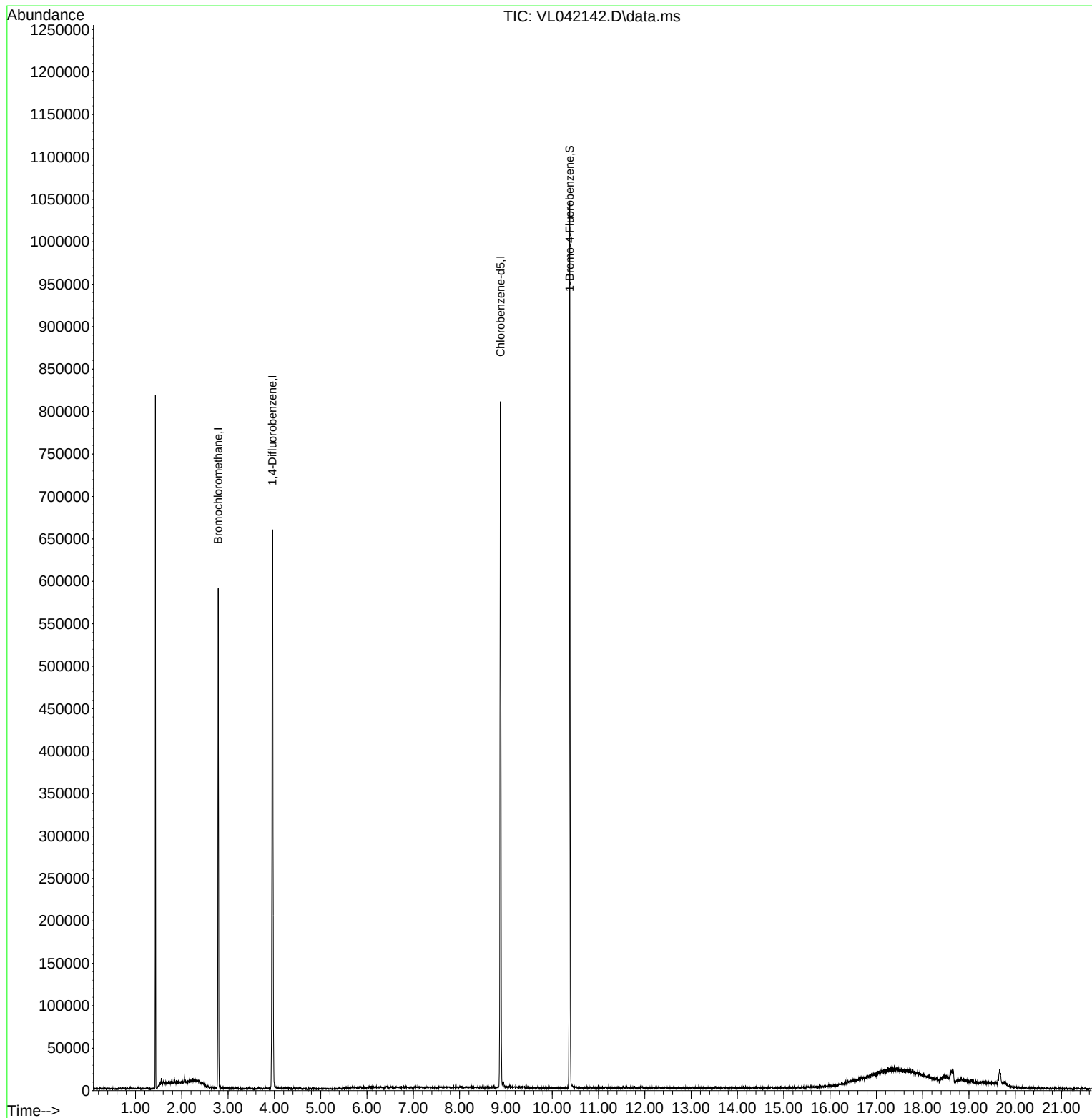
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL031425\  
Data File : VL042142.D  
Acq On : 14 Mar 2025 09:23  
Operator : SY/MD  
Sample : VL0314ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0314ABL01

Quant Time: Mar 14 23:17:29 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL031425\  
Data File : VL042143.D  
Acq On : 14 Mar 2025 10:09  
Operator : SY/MD  
Sample : QC031025 CAN 10267  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC031025 CAN 10267

Quant Time: Mar 14 23:17:49 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 165110   | 10.000 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 3.958 | 114  | 377773   | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 315162   | 10.000 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 245153   | 10.111   | ppbv | -0.02    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.100% |

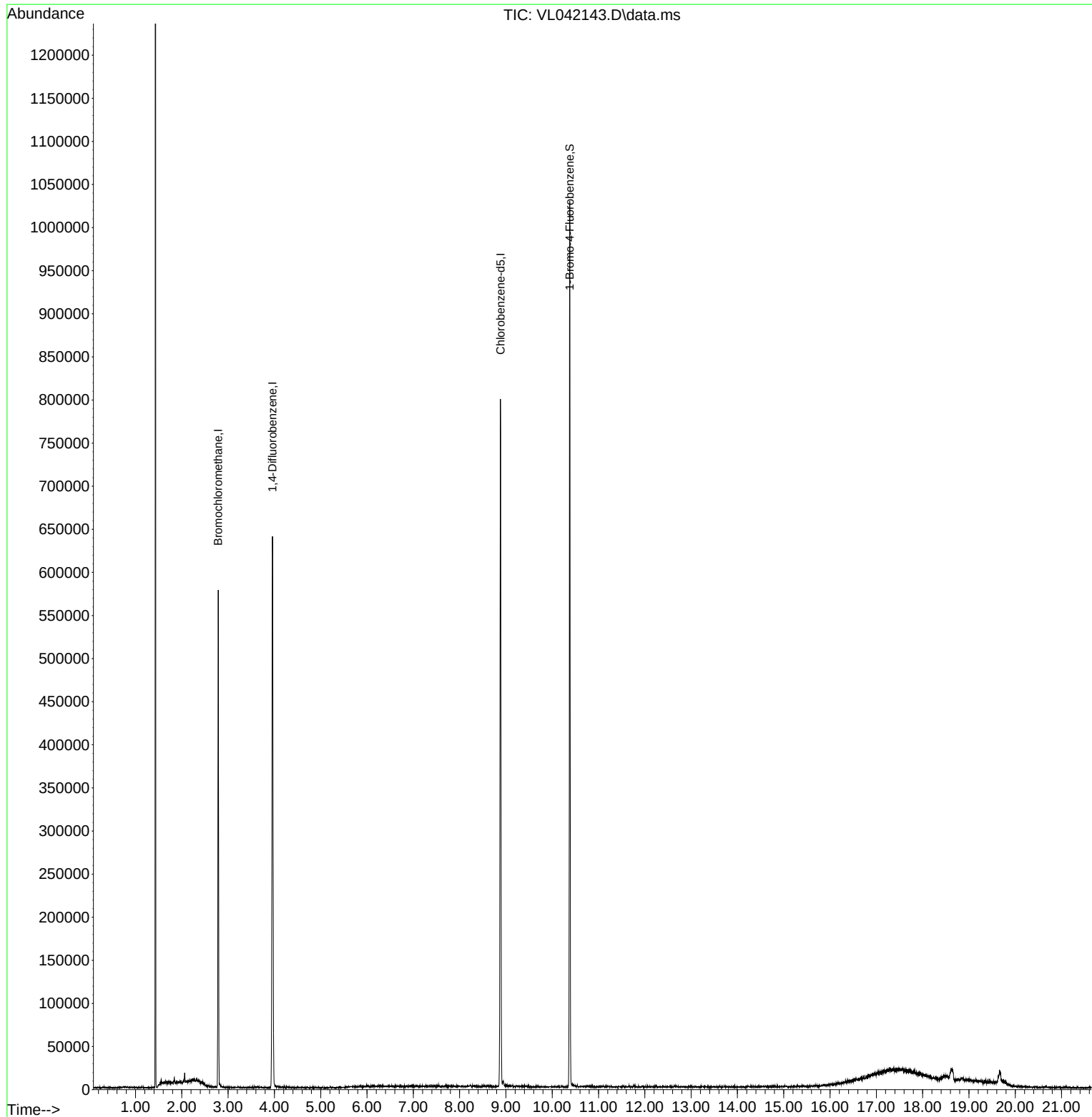
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL031425\  
Data File : VL042143.D  
Acq On : 14 Mar 2025 10:09  
Operator : SY/MD  
Sample : QC031025 CAN 10267  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC031025 CAN 10267

Quant Time: Mar 14 23:17:49 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL031425\  
 Data File : VL042146.D  
 Acq On : 14 Mar 2025 12:27  
 Operator : SY/MD  
 Sample : VL0314ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0314ABS01

Quant Time: Mar 14 23:18:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/17/2025  
 Supervised By : Mahesh Dadoda 03/17/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 163026   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 381842   | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 325786   | 10.000 | ppbv  | -0.02    |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 276407 11.028 ppbv -0.01  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 110.300%

#### Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 183411 | 10.819 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 224569 | 9.478  | ppbv   | 99     |
| 4) Chloromethane              | 1.534 | 50  | 72105  | 11.502 | ppbv   | 95     |
| 5) Vinyl Chloride             | 1.580 | 62  | 69189  | 11.667 | ppbv   | 98     |
| 6) Bromomethane               | 1.667 | 94  | 31681  | 11.220 | ppbv   | 96     |
| 7) Chloroethane               | 1.706 | 64  | 27615  | 11.461 | ppbv   | 92     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 159489 | 11.444 | ppbv   | 99     |
| 9) Propene                    | 1.486 | 41  | 85053  | 8.811  | ppbv   | 99     |
| 10) Heptane                   | 4.985 | 43  | 257569 | 8.570  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 201423 | 11.858 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 144035 | 10.630 | ppbv   | 97     |
| 13) Ethanol                   | 1.722 | 45  | 5622   | 9.175  | ppbv   | 97     |
| 14) Bromoethene               | 1.784 | 108 | 55222  | 11.541 | ppbv   | 97     |
| 15) Acetone                   | 1.835 | 43  | 154842 | 10.755 | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 74468  | 11.115 | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 2.042 | 59  | 168993 | 9.382  | ppbv   | 96     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 64700  | 10.568 | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 85819  | 10.377 | ppbv # | 35     |
| 20) Methylene Chloride        | 2.062 | 84  | 64018  | 11.756 | ppbv   | 96     |
| 21) Allyl Chloride            | 2.098 | 41  | 110336 | 10.607 | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 72399  | 10.144 | ppbv   | 99     |
| 23) Vinyl Acetate             | 2.463 | 43  | 87289  | 8.623  | ppbv # | 94     |
| 24) 1,1-Dichloroethane        | 2.411 | 63  | 140322 | 10.566 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.839 | 43  | 528086 | 9.164  | ppbv   | 100    |
| 26) Hexane                    | 2.826 | 57  | 215050 | 9.231  | ppbv   | 98     |
| 27) Carbon Disulfide          | 2.153 | 76  | 170348 | 10.787 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 91925  | 7.925  | ppbv   | 98     |
| 29) Chloroform                | 2.852 | 83  | 284422 | 9.071  | ppbv   | 98     |
| 30) Cyclohexane               | 3.861 | 84  | 155818 | 8.240  | ppbv   | 94     |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 180243 | 8.173  | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 3.369 | 97  | 256963 | 8.448  | ppbv   | 95     |
| 34) 2-Butanone                | 2.560 | 43  | 289331 | 9.726  | ppbv   | 95     |
| 35) Carbon Tetrachloride      | 3.764 | 117 | 267662 | 10.165 | ppbv   | 97     |
| 36) Benzene                   | 3.661 | 78  | 376328 | 9.415  | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 3.221 | 62  | 209658 | 9.460  | ppbv   | 99     |
| 38) Trichloroethene           | 4.554 | 130 | 143571 | 8.796  | ppbv   | 94     |
| 39) 1,2-Dichloropropane       | 4.318 | 63  | 142402 | 9.386  | ppbv   | 97     |
| 40) 1,4-Dioxane               | 4.590 | 88  | 65583  | 9.469  | ppbv # | 98     |
| 41) Tetrahydrofuran           | 3.059 | 42  | 161433 | 9.184  | ppbv   | 97     |
| 42) Bromodichloromethane      | 4.493 | 83  | 289116 | 9.682  | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.884 | 69  | 133935 | 8.580  | ppbv   | 95     |
| 44) 2,2,4-Trimethylpentane    | 4.645 | 57  | 687261 | 9.742  | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 6.418 | 75  | 122213 | 7.880  | ppbv   | 97     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL031425\  
 Data File : VL042146.D  
 Acq On : 14 Mar 2025 12:27  
 Operator : SY/MD  
 Sample : VL0314ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0314ABS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/17/2025  
 Supervised By :Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:18:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 173008   | 8.620  | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 148902   | 9.667  | ppbv   | 96       |
| 48) Dibromochloromethane      | 7.393  | 129  | 230834   | 9.569  | ppbv   | 98       |
| 49) Bromoform                 | 9.487  | 173  | 207997   | 9.928  | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.761  | 43   | 388572   | 10.100 | ppbv   | 95       |
| 51) 2-Hexanone                | 7.444  | 43   | 302871   | 11.438 | ppbv # | 97       |
| 52) Tetrachloroethene         | 8.228  | 164  | 123920   | 9.056  | ppbv   | 98       |
| 53) Toluene                   | 6.940  | 91   | 392631   | 8.789  | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 196312   | 9.427  | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 188895   | 10.258 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.924  | 112  | 335300   | 9.927  | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.357  | 91   | 553145   | 9.220  | ppbv   | 99       |
| 59) m/p-Xylene                | 9.555  | 91   | 938027m  | 19.646 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 472738   | 9.849  | ppbv   | 99       |
| 61) Styrene                   | 9.875  | 104  | 200572   | 8.888  | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.542 | 105  | 698706   | 9.720  | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 335051   | 10.599 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.992 | 120  | 189167   | 10.032 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 645167   | 9.861  | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.620 | 91   | 46836    | 9.382  | ppbv   | 97       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 930077   | 9.940  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.930 | 119  | 755360   | 10.147 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 760425   | 10.007 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.904 | 91   | 519669   | 9.378  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 580446   | 9.904  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 489177   | 9.623  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 558174   | 9.751  | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 329807   | 10.011 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 327949   | 10.026 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 329758   | 10.314 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 227664   | 9.152  | ppbv   | 99       |
| 79) Naphthalene               | 13.516 | 128  | 477761   | 12.172 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.461 | 142  | 148881   | 13.860 | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 217204   | 9.930  | ppbv   | 100      |

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



Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL011425**

| Review By                | Mahesh Dadoda            | Review On         | 1/15/2025 12:59:33 PM |                      |               |
|--------------------------|--------------------------|-------------------|-----------------------|----------------------|---------------|
| Supervise By             | Semsettin Yesilyurt      | Supervise On      | 1/15/2025 1:00:29 PM  |                      |               |
| SubDirectory             | VL011425                 | HP Acquire Method | TO15AIR.M             | HP Processing Method | VL011425AIR.M |
| STD. NAME                | STD REF.#                |                   |                       |                      |               |
| Tune/Reschk              | AP2569                   |                   |                       |                      |               |
| Initial Calibration Stds | AP2571,AP2572,AP2573     |                   |                       |                      |               |
| CCC                      | AP2571                   |                   |                       |                      |               |
| Internal Standard/PEM    | AP2569                   |                   |                       |                      |               |
| ICV/I.BLK                | AP2574,MDL,AP2572,AP2573 |                   |                       |                      |               |
| Surrogate Standard       |                          |                   |                       |                      |               |
| MS/MSD Standard          |                          |                   |                       |                      |               |
| LCS Standard             |                          |                   |                       |                      |               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | BFB         | VL041887.D     | 14 Jan 2025 07:50 | SY/MD    | Ok     |
| 2   | VSTDIC0.5   | VL041888.D     | 14 Jan 2025 11:40 | SY/MD    | Not Ok |
| 3   | VSTDICCC010 | VL041889.D     | 14 Jan 2025 12:55 | SY/MD    | Ok,M   |
| 4   | VSTDIC002   | VL041890.D     | 14 Jan 2025 13:28 | SY/MD    | Ok,M   |
| 5   | VSTDIC001   | VL041891.D     | 14 Jan 2025 13:59 | SY/MD    | Ok,M   |
| 6   | VSTDIC0.5   | VL041892.D     | 14 Jan 2025 14:30 | SY/MD    | Ok,M   |
| 7   | VSTDIC0.1   | VL041893.D     | 14 Jan 2025 15:01 | SY/MD    | Ok,M   |
| 8   | VSTDIC0.03  | VL041894.D     | 14 Jan 2025 15:32 | SY/MD    | Ok,M   |
| 9   | VSTDIC015   | VL041895.D     | 14 Jan 2025 16:05 | SY/MD    | Ok,M   |
| 10  | VSTDICV010  | VL041896.D     | 14 Jan 2025 17:33 | SY/MD    | Ok,M   |
| 11  | VL0114ABL01 | VL041897.D     | 14 Jan 2025 18:34 | SY/MD    | Ok     |
| 12  | VL0114ABL02 | VL041898.D     | 14 Jan 2025 19:05 | SY/MD    | Ok     |
| 13  | VL0114ABS01 | VL041899.D     | 14 Jan 2025 19:36 | SY/MD    | Ok,M   |
| 14  | VIBLK       | VL041900.D     | 14 Jan 2025 20:07 | SY/MD    | Ok     |
| 15  | Q1073-04    | VL041901.D     | 14 Jan 2025 20:40 | SY/MD    | Ok,M   |
| 16  | Q1073-04DUP | VL041902.D     | 14 Jan 2025 21:14 | SY/MD    | Ok,M   |
| 17  | Q1073-05    | VL041903.D     | 14 Jan 2025 21:47 | SY/MD    | Ok,M   |
| 18  | Q1073-06    | VL041904.D     | 14 Jan 2025 22:21 | SY/MD    | Ok,M   |
| 19  | Q1073-01    | VL041905.D     | 14 Jan 2025 22:51 | SY/MD    | Ok,M   |
| 20  | Q1073-02    | VL041906.D     | 14 Jan 2025 23:22 | SY/MD    | Ok,M   |
| 21  | Q1073-03    | VL041907.D     | 14 Jan 2025 23:52 | SY/MD    | Ok,M   |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL011425**

| Review By                | Maresh Dadoda       | Review On                | 1/15/2025 12:59:33 PM |                      |               |
|--------------------------|---------------------|--------------------------|-----------------------|----------------------|---------------|
| Supervise By             | Semsettin Yesilyurt | Supervise On             | 1/15/2025 1:00:29 PM  |                      |               |
| SubDirectory             | VL011425            | HP Acquire Method        | TO15AIR.M             | HP Processing Method | VL011425AIR.M |
| STD. NAME                |                     | STD REF.#                |                       |                      |               |
| Tune/Reschk              |                     | AP2569                   |                       |                      |               |
| Initial Calibration Stds |                     | AP2571,AP2572,AP2573     |                       |                      |               |
| CCC                      |                     | AP2571                   |                       |                      |               |
| Internal Standard/PEM    |                     | AP2569                   |                       |                      |               |
| ICV/I.BLK                |                     | AP2574,MDL,AP2572,AP2573 |                       |                      |               |
| Surrogate Standard       |                     |                          |                       |                      |               |
| MS/MSD Standard          |                     |                          |                       |                      |               |
| LCS Standard             |                     |                          |                       |                      |               |

|    |            |            |                   |       |        |
|----|------------|------------|-------------------|-------|--------|
| 22 | VIBLK      | VL041908.D | 15 Jan 2025 00:22 | SY/MD | Ok     |
| 23 | MDL 0.4    | VL041909.D | 15 Jan 2025 00:52 | SY/MD | Ok,M   |
| 24 | MDL 0.4    | VL041910.D | 15 Jan 2025 01:23 | SY/MD | Ok,M   |
| 25 | MDL 0.1    | VL041911.D | 15 Jan 2025 01:53 | SY/MD | Ok,M   |
| 26 | MDL 0.1    | VL041912.D | 15 Jan 2025 02:23 | SY/MD | Ok,M   |
| 27 | MDL 0.03   | VL041913.D | 15 Jan 2025 02:53 | SY/MD | Ok,M   |
| 28 | MDL 0.03   | VL041914.D | 15 Jan 2025 03:23 | SY/MD | Ok,M   |
| 29 | VSTDCCC010 | VL041915.D | 15 Jan 2025 08:37 | SY/MD | Not Ok |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL020325**

|                          |                     |                      |                     |                      |               |
|--------------------------|---------------------|----------------------|---------------------|----------------------|---------------|
| Review By                | Semsettin Yesilyurt | Review On            | 2/4/2025 9:24:56 AM |                      |               |
| Supervise By             | Maresh Dadoda       | Supervise On         | 2/4/2025 3:44:53 PM |                      |               |
| SubDirectory             | VL020325            | HP Acquire Method    | TO15AIR.M           | HP Processing Method | VL011425AIR.M |
| STD. NAME                |                     | STD REF.#            |                     |                      |               |
| Tune/Reschk              |                     | AP2569               |                     |                      |               |
| Initial Calibration Stds |                     | AP2571,AP2572,AP2573 |                     |                      |               |
| CCC                      |                     | AP2571               |                     |                      |               |
| Internal Standard/PEM    |                     | AP2569               |                     |                      |               |
| ICV/I.BLK                |                     | AP2574               |                     |                      |               |
| Surrogate Standard       |                     |                      |                     |                      |               |
| MS/MSD Standard          |                     |                      |                     |                      |               |
| LCS Standard             |                     |                      |                     |                      |               |

| Sr# | SampleId           | Data File Name | Date-Time         | Operator | Status |
|-----|--------------------|----------------|-------------------|----------|--------|
| 1   | BFB                | VL041957.D     | 03 Feb 2025 09:47 | SY/MD    | Ok     |
| 2   | VSTDCCC010         | VL041958.D     | 03 Feb 2025 10:48 | SY/MD    | Ok,M   |
| 3   | VL0203ABL01        | VL041959.D     | 03 Feb 2025 11:34 | SY/MD    | Ok     |
| 4   | VL0203ABL02        | VL041960.D     | 03 Feb 2025 12:05 | SY/MD    | Ok     |
| 5   | VL0203ABS01        | VL041961.D     | 03 Feb 2025 12:57 | SY/MD    | Ok,M   |
| 6   | Q1222-01           | VL041962.D     | 03 Feb 2025 13:57 | SY/MD    | Ok,M   |
| 7   | Q1222-01DL         | VL041963.D     | 03 Feb 2025 14:28 | SY/MD    | Not Ok |
| 8   | Q1256-01           | VL041964.D     | 03 Feb 2025 14:59 | SY/MD    | Ok,M   |
| 9   | Q1256-01DL         | VL041965.D     | 03 Feb 2025 15:30 | SY/MD    | Not Ok |
| 10  | QC012825 CAN 10439 | VL041966.D     | 03 Feb 2025 16:02 | SY/MD    | Ok     |
| 11  | Q1222-02           | VL041967.D     | 03 Feb 2025 16:35 | SY/MD    | Ok,M   |
| 12  | Q1222-02DUP        | VL041968.D     | 03 Feb 2025 17:08 | SY/MD    | Ok,M   |
| 13  | Q1222-03           | VL041969.D     | 03 Feb 2025 17:41 | SY/MD    | Ok,M   |
| 14  | Q1256-02           | VL041970.D     | 03 Feb 2025 18:15 | SY/MD    | Ok,M   |
| 15  | Q1168-14 0.03      | VL041971.D     | 03 Feb 2025 21:01 | SY/MD    | Not Ok |
| 16  | Q1168-13 0.03      | VL041972.D     | 03 Feb 2025 21:32 | SY/MD    | Ok,M   |
| 17  | Q1168-14 0.03      | VL041973.D     | 03 Feb 2025 22:13 | SY/MD    | Ok,M   |
| 18  | QC020325 CAN 10599 | VL041974.D     | 04 Feb 2025 08:03 | SY/MD    | Ok     |
| 19  | VSTDCCC010         | VL041975.D     | 04 Feb 2025 08:34 | SY/MD    | Ok,M   |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL022525**

| Review By                | Semsettin Yesilyurt  | Review On         | 2/26/2025 8:27:25 AM |                      |               |
|--------------------------|----------------------|-------------------|----------------------|----------------------|---------------|
| Supervise By             | Mahesh Dadoda        | Supervise On      | 2/26/2025 1:45:21 PM |                      |               |
| SubDirectory             | VL022525             | HP Acquire Method | TO15AIR.M            | HP Processing Method | VL022525AIR.M |
| STD. NAME                |                      | STD REF.#         |                      |                      |               |
| Tune/Reschk              | AP2576               |                   |                      |                      |               |
| Initial Calibration Stds | AP2582,AP2584,AP2585 |                   |                      |                      |               |
| CCC                      | AP2582               |                   |                      |                      |               |
| Internal Standard/PEM    | AP2576               |                   |                      |                      |               |
| ICV/I.BLK                | AP2586               |                   |                      |                      |               |
| Surrogate Standard       |                      |                   |                      |                      |               |
| MS/MSD Standard          |                      |                   |                      |                      |               |
| LCS Standard             |                      |                   |                      |                      |               |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status |
|-----|--------------|----------------|-------------------|----------|--------|
| 1   | BFB          | VL042040.D     | 25 Feb 2025 07:56 | SY/MD    | Ok     |
| 2   | VSTDICCC010  | VL042041.D     | 25 Feb 2025 08:56 | SY/MD    | Ok,M   |
| 3   | VSTDICCC002  | VL042042.D     | 25 Feb 2025 09:29 | SY/MD    | Ok,M   |
| 4   | VSTDICCC001  | VL042043.D     | 25 Feb 2025 10:00 | SY/MD    | Ok,M   |
| 5   | VSTDICCC0.5  | VL042044.D     | 25 Feb 2025 10:31 | SY/MD    | Ok,M   |
| 6   | VSTDICCC0.1  | VL042045.D     | 25 Feb 2025 11:03 | SY/MD    | Ok,M   |
| 7   | VSTDICCC0.03 | VL042046.D     | 25 Feb 2025 11:34 | SY/MD    | Ok,M   |
| 8   | VSTDICCC015  | VL042047.D     | 25 Feb 2025 12:07 | SY/MD    | Ok,M   |
| 9   | VSTDICV010   | VL042048.D     | 25 Feb 2025 13:15 | SY/MD    | Ok,M   |

M : Manual Integration

Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL030325**

| Review By                | Semsettin Yesilyurt | Review On            | 3/4/2025 4:05:35 PM  |                      |               |
|--------------------------|---------------------|----------------------|----------------------|----------------------|---------------|
| Supervise By             | Maresh Dadoda       | Supervise On         | 3/5/2025 12:17:04 PM |                      |               |
| SubDirectory             | VL030325            | HP Acquire Method    | TO15AIR.M            | HP Processing Method | VL022525AIR.M |
| STD. NAME                |                     | STD REF.#            |                      |                      |               |
| Tune/Reschk              |                     | AP2587               |                      |                      |               |
| Initial Calibration Stds |                     | AP2582,AP2584,AP2585 |                      |                      |               |
| CCC                      |                     | AP2582               |                      |                      |               |
| Internal Standard/PEM    |                     | AP2587               |                      |                      |               |
| ICV/I.BLK                |                     | AP2586               |                      |                      |               |
| Surrogate Standard       |                     |                      |                      |                      |               |
| MS/MSD Standard          |                     |                      |                      |                      |               |
| LCS Standard             |                     |                      |                      |                      |               |

| Sr# | SampleId           | Data File Name | Date-Time         | Operator | Status |
|-----|--------------------|----------------|-------------------|----------|--------|
| 1   | BFB                | VL042074.D     | 03 Mar 2025 11:45 | SY/MD    | Ok     |
| 2   | VSTDCCC010         | VL042075.D     | 03 Mar 2025 12:15 | SY/MD    | Ok,M   |
| 3   | VL0303ABL01        | VL042076.D     | 03 Mar 2025 14:49 | SY/MD    | Ok     |
| 4   | VL0303ABS01        | VL042077.D     | 03 Mar 2025 15:19 | SY/MD    | Ok,M   |
| 5   | QC022725 CAN 10331 | VL042078.D     | 03 Mar 2025 15:52 | SY/MD    | Ok     |
| 6   | Q1430-03           | VL042079.D     | 03 Mar 2025 16:23 | SY/MD    | Ok,M   |
| 7   | Q1430-03DL         | VL042080.D     | 03 Mar 2025 16:53 | SY/MD    | Not Ok |
| 8   | Q1430-02           | VL042081.D     | 03 Mar 2025 17:24 | SY/MD    | Ok,M   |
| 9   | Q1430-02DL         | VL042082.D     | 03 Mar 2025 17:55 | SY/MD    | Not Ok |
| 10  | Q1430-04           | VL042083.D     | 03 Mar 2025 18:26 | SY/MD    | Ok,M   |
| 11  | Q1430-04DL         | VL042084.D     | 03 Mar 2025 18:57 | SY/MD    | Not Ok |
| 12  | Q1430-01           | VL042085.D     | 03 Mar 2025 19:28 | SY/MD    | Ok,M   |
| 13  | Q1430-01DL         | VL042086.D     | 03 Mar 2025 19:59 | SY/MD    | Not Ok |
| 14  | Q1430-01DUP        | VL042087.D     | 03 Mar 2025 20:29 | SY/MD    | Ok,M   |
| 15  | VIBLK              | VL042088.D     | 03 Mar 2025 21:00 | SY/MD    | Ok     |
| 16  | QC022625 CAN 10682 | VL042089.D     | 03 Mar 2025 21:31 | SY/MD    | Not Ok |
| 17  | QC022625 CAN 10746 | VL042090.D     | 03 Mar 2025 22:02 | SY/MD    | Ok     |
| 18  | VL0303ABS02        | VL042091.D     | 03 Mar 2025 22:33 | SY/MD    | Not Ok |
| 19  | QC022625 CAN 10682 | VL042092.D     | 04 Mar 2025 08:07 | SY/MD    | Ok     |
| 20  | VSTDCCC010         | VL042093.D     | 04 Mar 2025 09:04 | SY/MD    | Ok,M   |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL031425**

| Review By                | Semsettin Yesilyurt | Review On            | 3/17/2025 8:36:35 AM |                      |               |
|--------------------------|---------------------|----------------------|----------------------|----------------------|---------------|
| Supervise By             | Maresh Dadoda       | Supervise On         | 3/17/2025 1:46:41 PM |                      |               |
| SubDirectory             | VL031425            | HP Acquire Method    | TO15AIR.M            | HP Processing Method | VL022525AIR.M |
| STD. NAME                |                     | STD REF.#            |                      |                      |               |
| Tune/Reschk              |                     | AP2588               |                      |                      |               |
| Initial Calibration Stds |                     | AP2582,AP2584,AP2585 |                      |                      |               |
| CCC                      |                     | AP2582               |                      |                      |               |
| Internal Standard/PEM    |                     | AP2588               |                      |                      |               |
| ICV/I.BLK                |                     | AP2586               |                      |                      |               |
| Surrogate Standard       |                     |                      |                      |                      |               |
| MS/MSD Standard          |                     |                      |                      |                      |               |
| LCS Standard             |                     |                      |                      |                      |               |

| Sr# | Sampled            | Data File Name | Date-Time         | Operator | Status |
|-----|--------------------|----------------|-------------------|----------|--------|
| 1   | BFB                | VL042140.D     | 14 Mar 2025 07:56 | SY/MD    | Ok     |
| 2   | VSTCCCC010         | VL042141.D     | 14 Mar 2025 08:39 | SY/MD    | Ok,M   |
| 3   | VL0314ABL01        | VL042142.D     | 14 Mar 2025 09:23 | SY/MD    | Ok     |
| 4   | QC031025 CAN 10267 | VL042143.D     | 14 Mar 2025 10:09 | SY/MD    | Ok     |
| 5   | QC031225 CAN 10300 | VL042144.D     | 14 Mar 2025 10:40 | SY/MD    | Not Ok |
| 6   | QC031325 CAN 10266 | VL042145.D     | 14 Mar 2025 11:11 | SY/MD    | Ok     |
| 7   | VL0314ABS01        | VL042146.D     | 14 Mar 2025 12:27 | SY/MD    | Ok,M   |
| 8   | QC031225 CAN 10300 | VL042147.D     | 14 Mar 2025 15:56 | SY/MD    | Ok     |
| 9   | QC031225 CAN 10300 | VL042148.D     | 14 Mar 2025 16:29 | SY/MD    | Not Ok |

M : Manual Integration



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

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 26 06:05:16 2022  
 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   | 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

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 26 06:05:16 2022  
 QLast Update : Fri Mar 28 01:31:23 2025  
 Response via : Initial Calibration

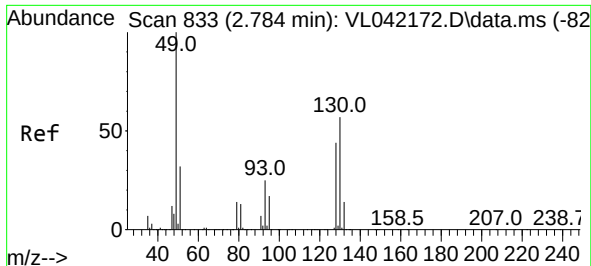
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 300021   | 9.973  | ppbv   | 100      |
| 47) 1,1,2-Trichloroethane     | 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   | 595445   | 8.071  | ppbv # | 9        |
| 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

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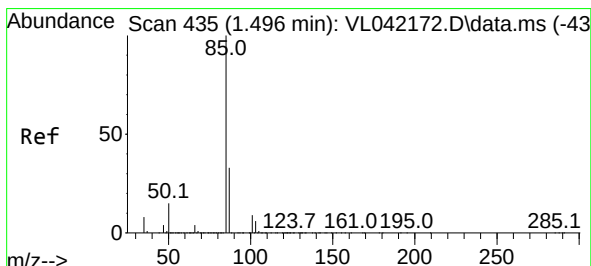
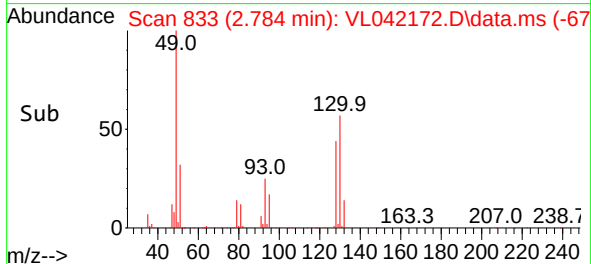
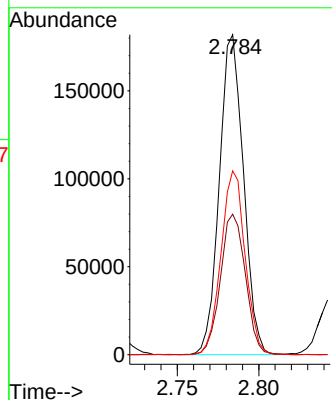
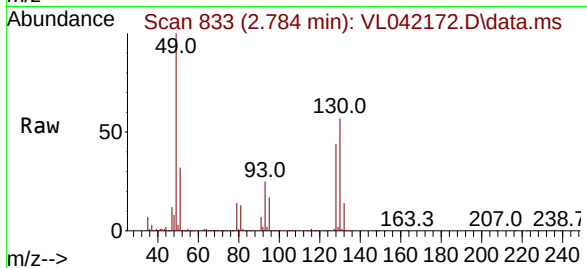




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 833  
Delta R.T. -0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

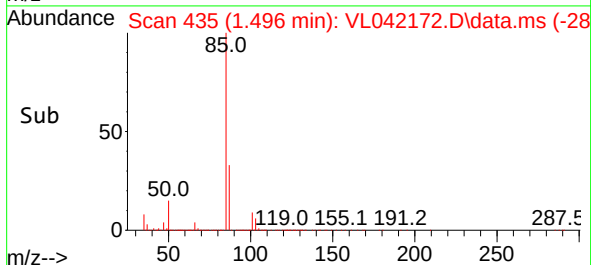
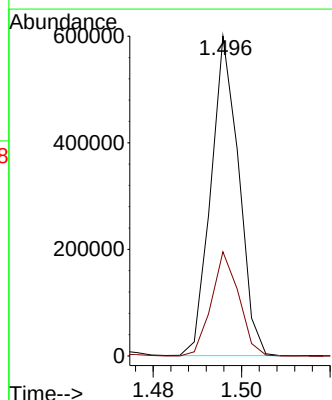
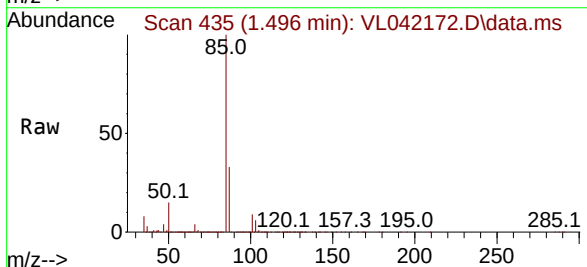
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

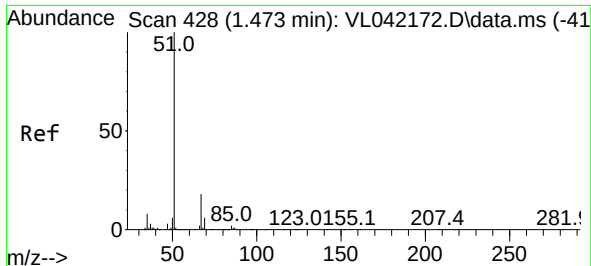
Tgt Ion: 49 Resp: 187002  
Ion Ratio Lower Upper  
49 100  
128 45.7 22.9 68.5  
130 57.6 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 9.507 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 85 Resp: 262496  
Ion Ratio Lower Upper  
85 100  
87 32.6 26.1 39.1

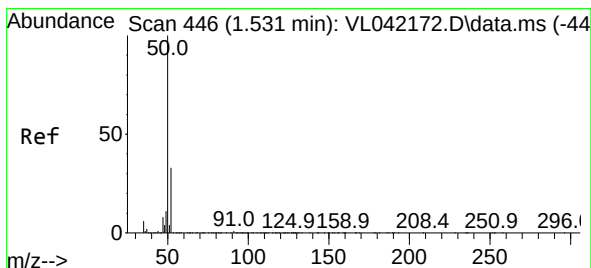
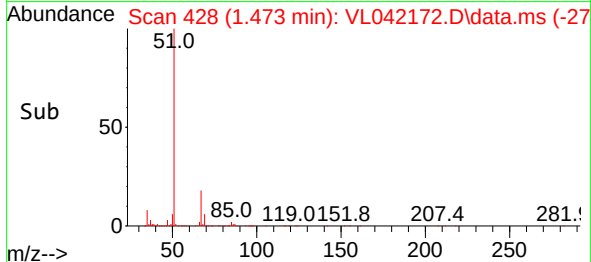
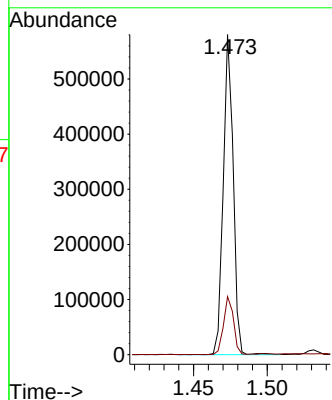
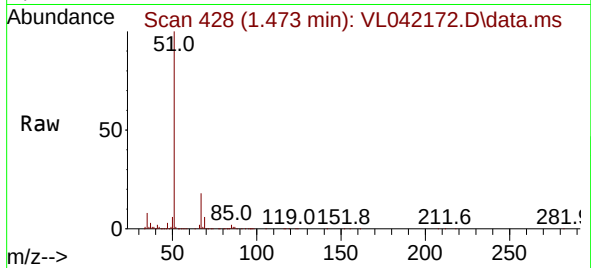




#3  
Chlorodifluoromethane  
Concen: 9.662 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

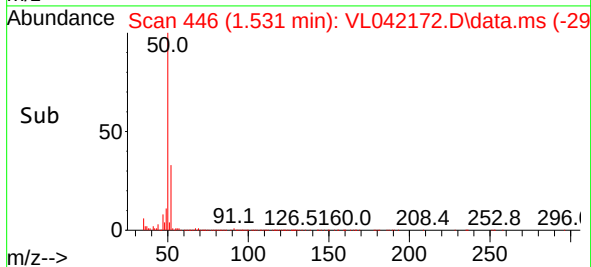
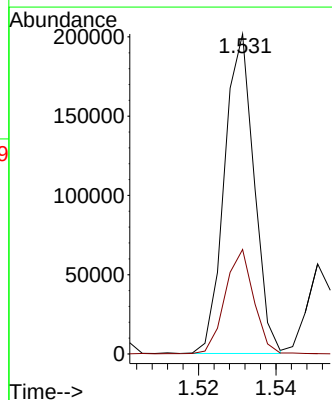
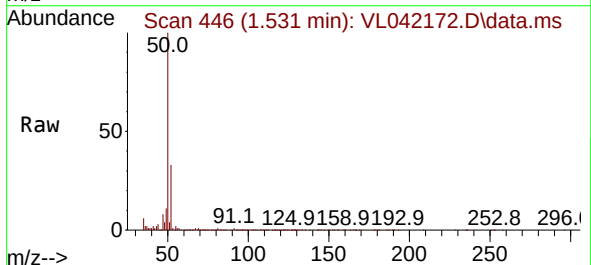
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

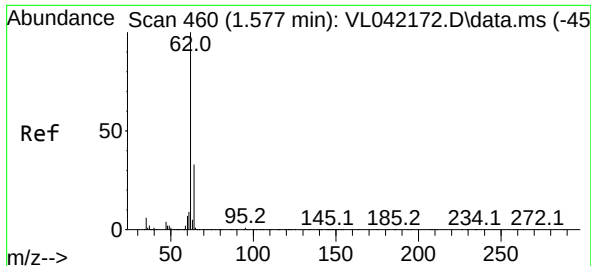
Tgt Ion: 51 Resp: 272522  
Ion Ratio Lower Upper  
51 100  
67 18.8 15.0 22.6



#4  
Chloromethane  
Concen: 9.491 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 50 Resp: 107099  
Ion Ratio Lower Upper  
50 100  
52 32.6 26.1 39.1

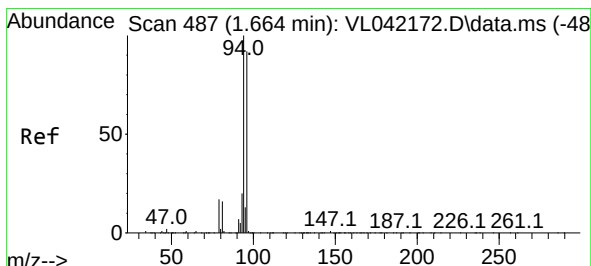
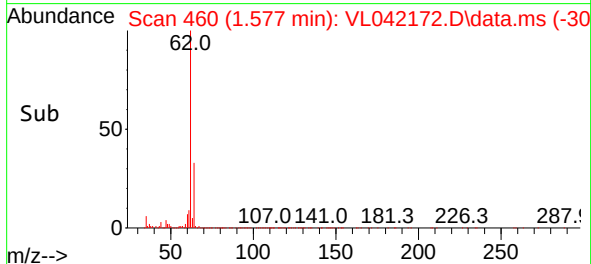
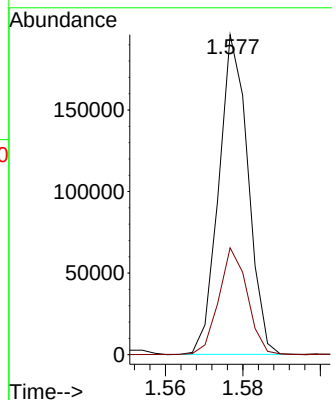
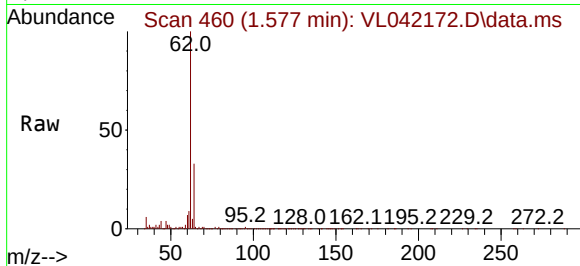




#5  
 Vinyl Chloride  
 Concen: 8.925 ppbv  
 RT: 1.577 min Scan# 460  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

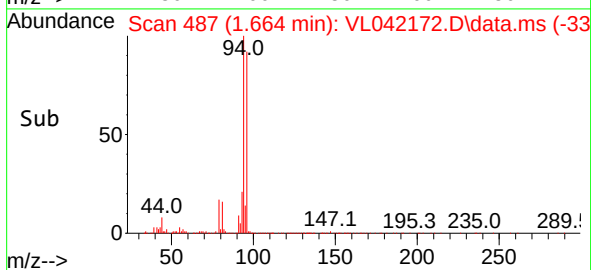
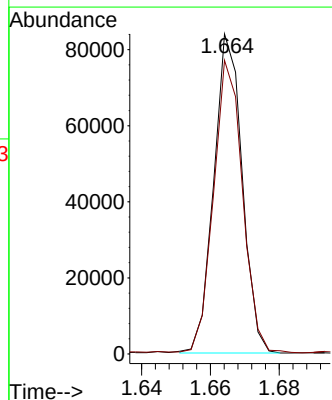
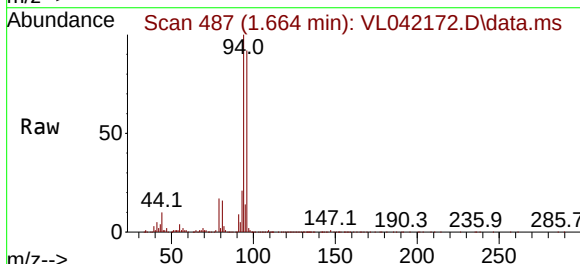
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

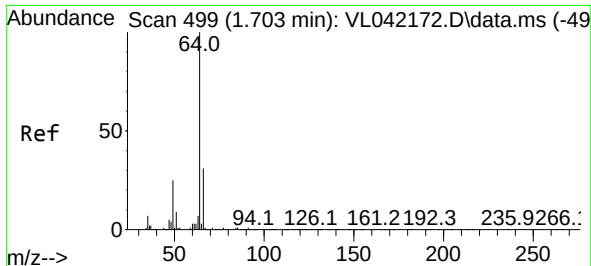
Tgt Ion: 62 Resp: 102699  
 Ion Ratio Lower Upper  
 62 100  
 64 33.3 26.6 40.0



#6  
 Bromomethane  
 Concen: 9.377 ppbv  
 RT: 1.664 min Scan# 487  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

Tgt Ion: 94 Resp: 47950  
 Ion Ratio Lower Upper  
 94 100  
 96 91.4 73.1 109.7

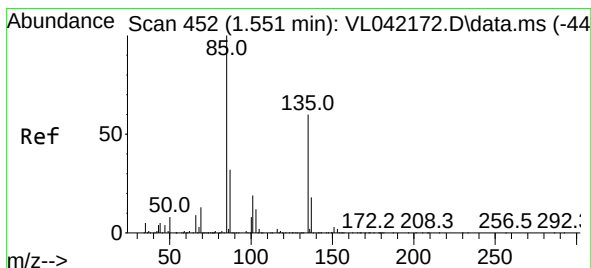
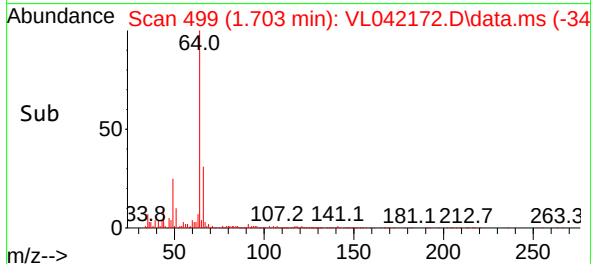
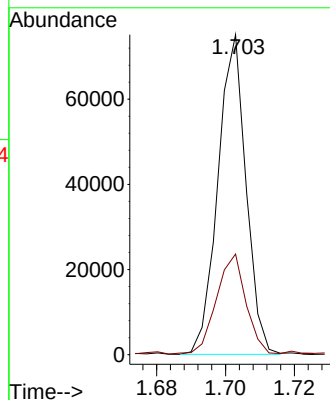
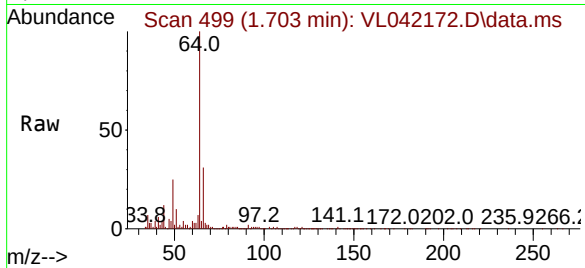




#7  
Chloroethane  
Concen: 9.387 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

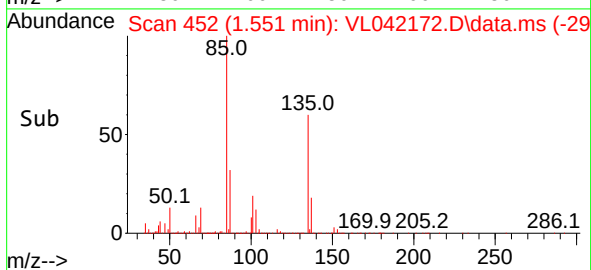
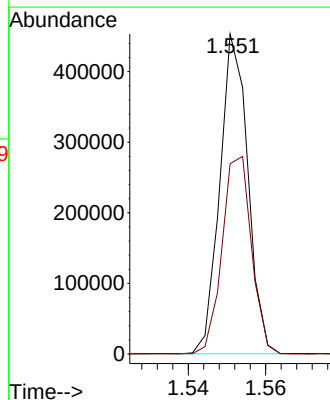
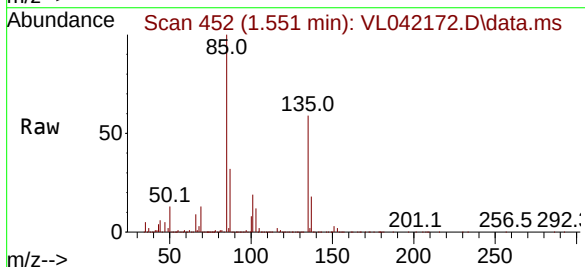
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

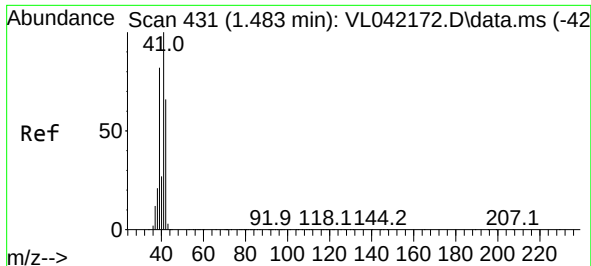
Tgt Ion: 64 Resp: 42516  
Ion Ratio Lower Upper  
64 100  
66 31.5 25.2 37.8



#8  
Dichlorotetrafluoroethane  
Concen: 9.656 ppbv  
RT: 1.551 min Scan# 452  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 85 Resp: 227041  
Ion Ratio Lower Upper  
85 100  
135 65.5 52.4 78.6





#9

Propene

Concen: 9.709 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA\_1

ClientSampleId :

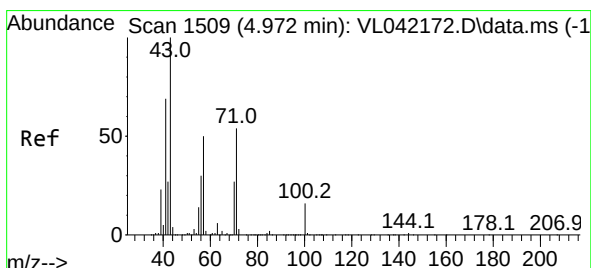
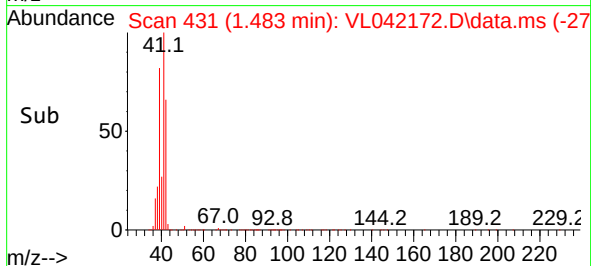
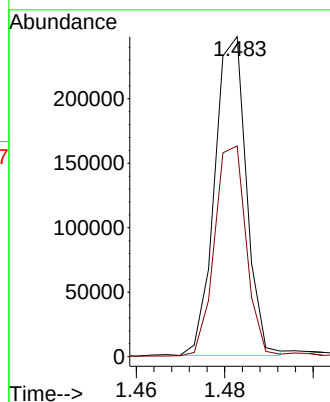
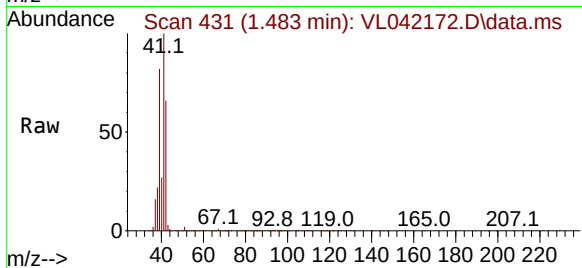
VSTDICCC010

Tgt Ion: 41 Resp: 123386

Ion Ratio Lower Upper

41 100

42 69.3 55.4 83.2



#10

Heptane

Concen: 9.744 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VL042172.D

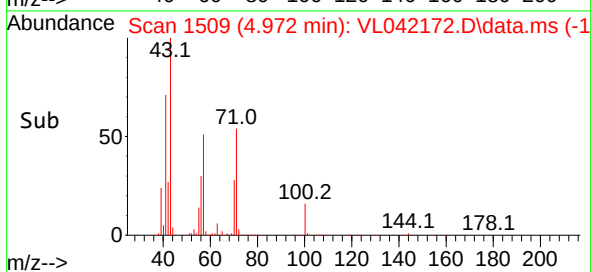
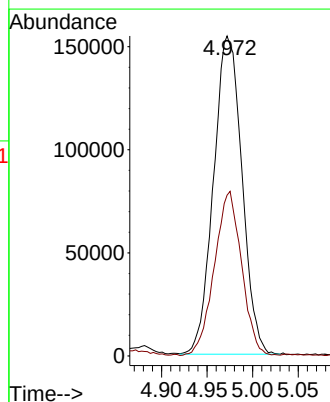
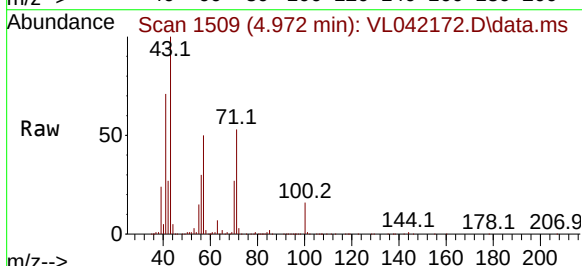
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 335086

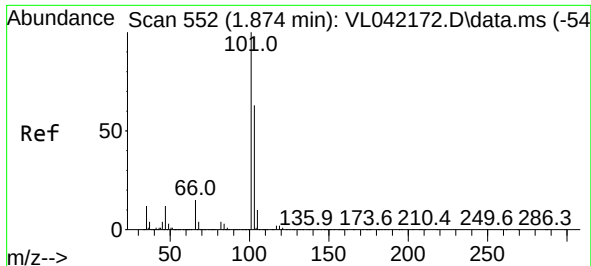
Ion Ratio Lower Upper

43 100

57 49.3 39.4 59.2



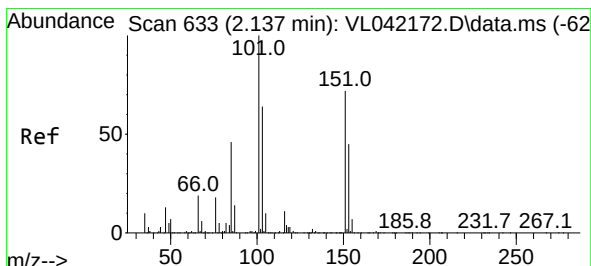
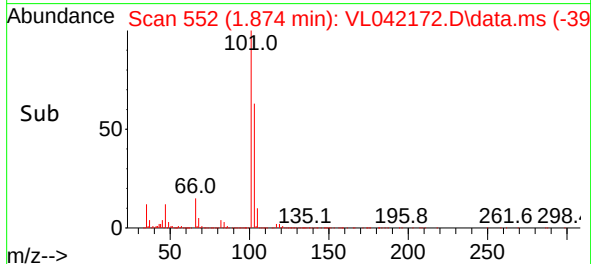
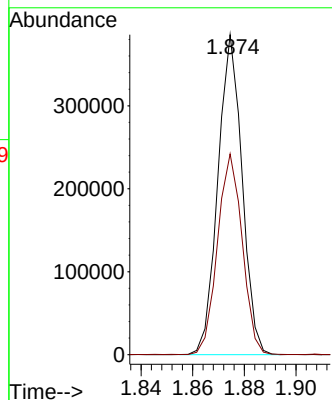
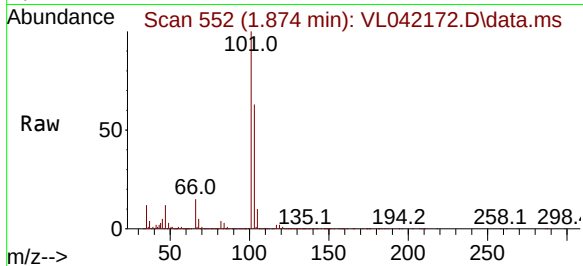




#11  
Trichlorofluoromethane  
Concen: 9.318 ppbv  
RT: 1.874 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

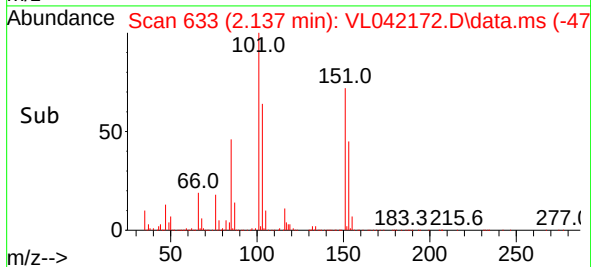
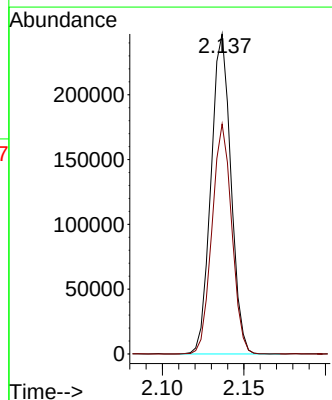
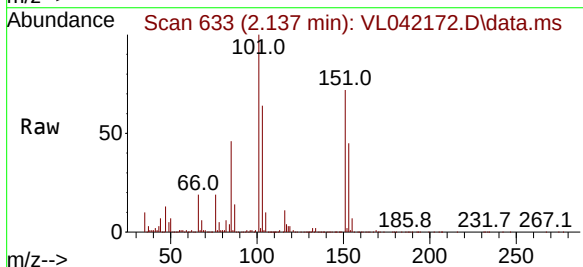
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

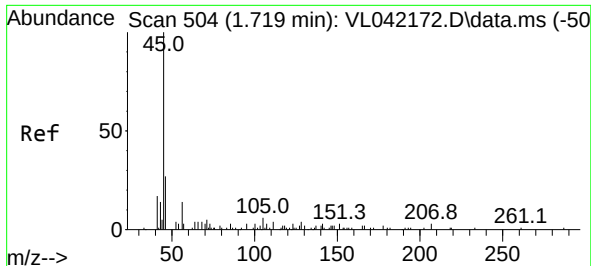
Tgt Ion:101 Resp: 250349  
Ion Ratio Lower Upper  
101 100  
103 62.7 50.2 75.2



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.481 ppbv  
RT: 2.137 min Scan# 633  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion:101 Resp: 209365  
Ion Ratio Lower Upper  
101 100  
151 71.4 57.1 85.7

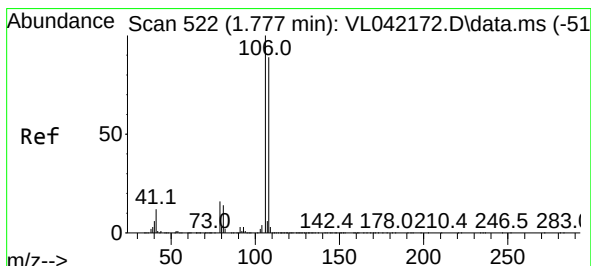
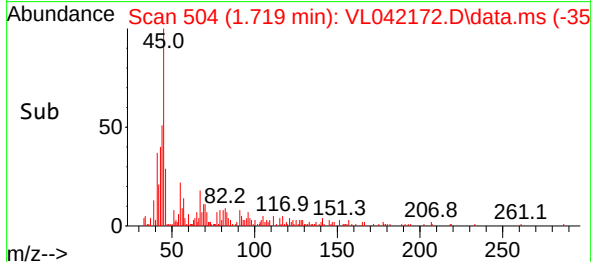
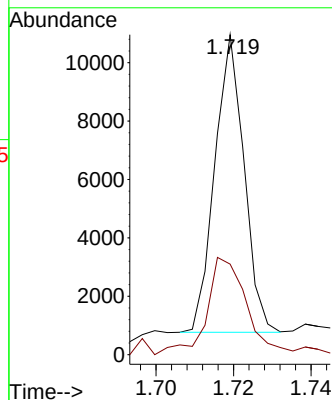
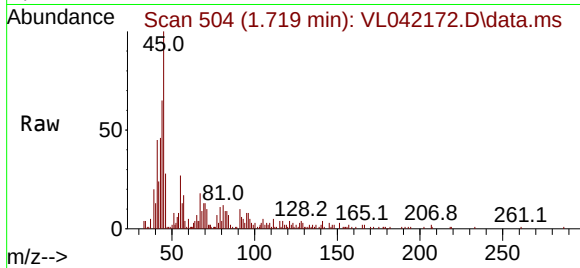




#13  
Ethanol  
Concen: 5.364 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

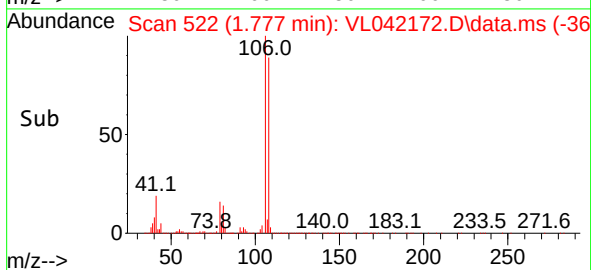
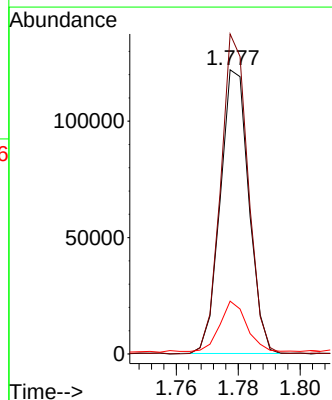
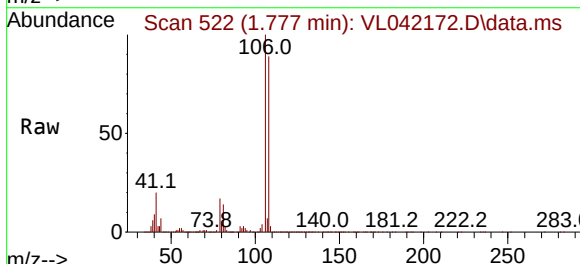
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

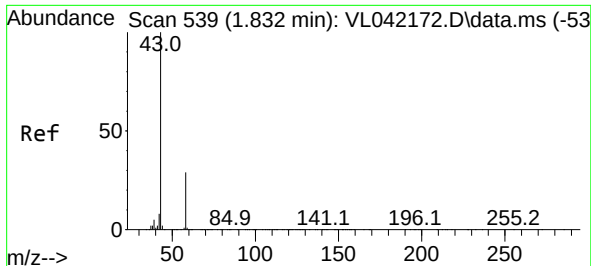
Tgt Ion: 45 Resp: 5338  
Ion Ratio Lower Upper  
45 100  
46 50.5 20.2 80.8



#14  
Bromoethene  
Concen: 9.220 ppbv  
RT: 1.777 min Scan# 522  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 108 Resp: 77999  
Ion Ratio Lower Upper  
108 100  
106 108.5 86.8 130.2  
79 18.8 15.0 22.6

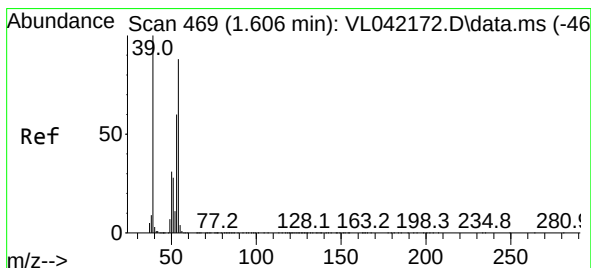
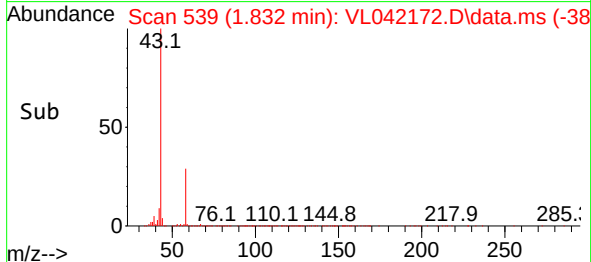
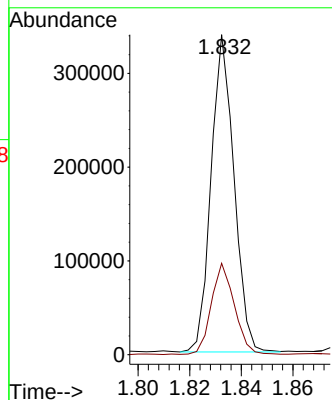
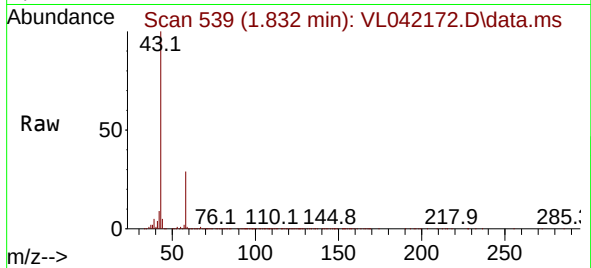




#15  
Acetone  
Concen: 7.955 ppbv  
RT: 1.832 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

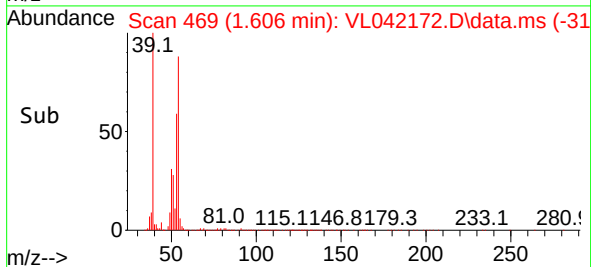
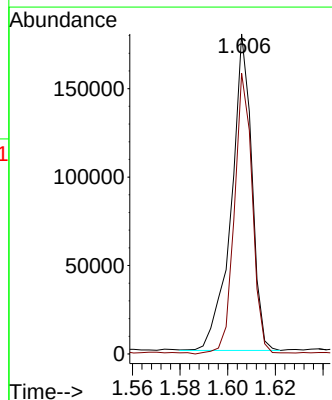
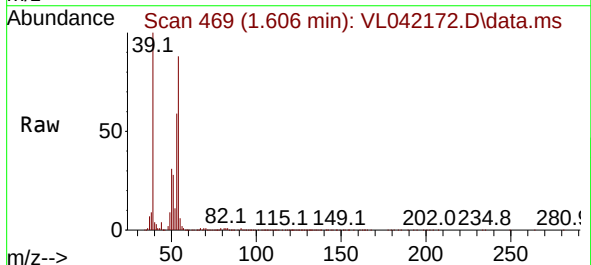
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

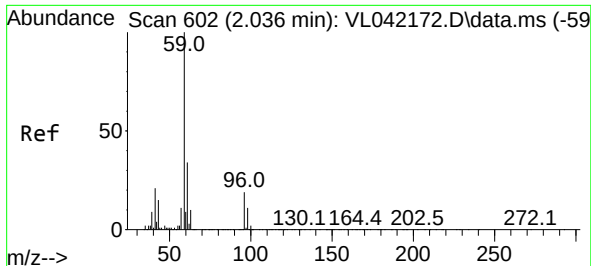
Tgt Ion: 43 Resp: 208061  
Ion Ratio Lower Upper  
43 100  
58 29.0 23.2 34.8



#16  
1,3-Butadiene  
Concen: 9.105 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 39 Resp: 107104  
Ion Ratio Lower Upper  
39 100  
54 75.9 60.7 91.1

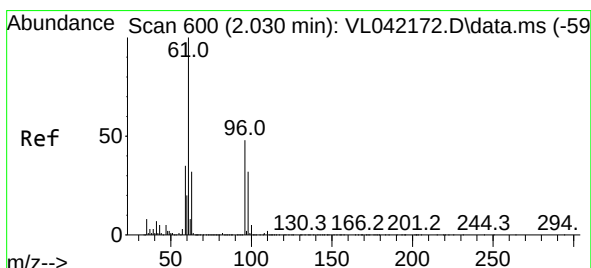
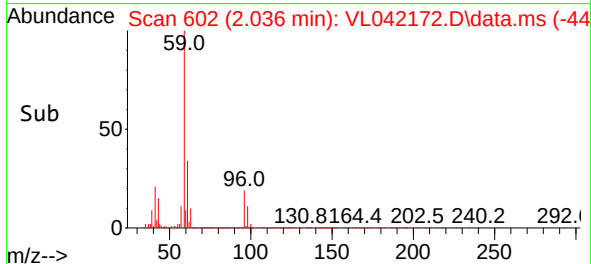
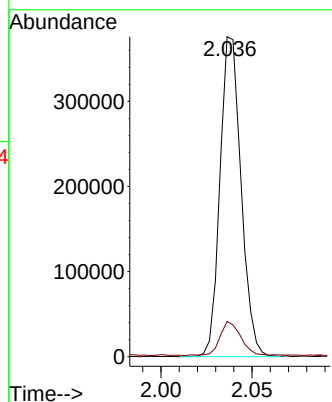
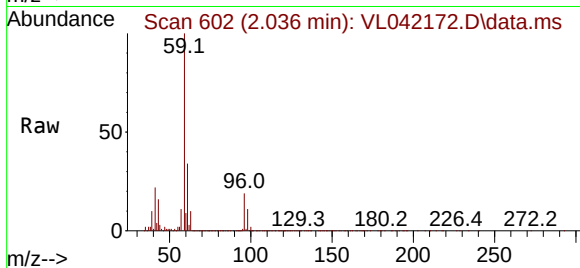




#17  
 tert-Butyl alcohol  
 Concen: 9.290 ppbv  
 RT: 2.036 min Scan# 602  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

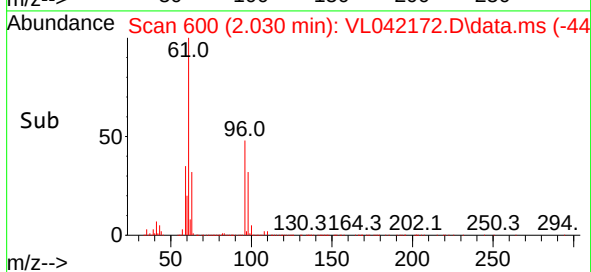
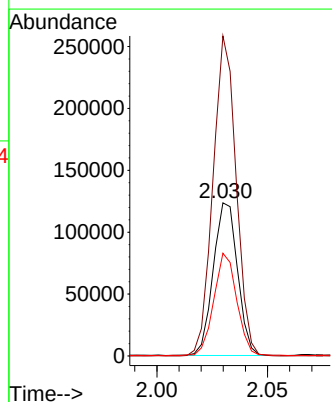
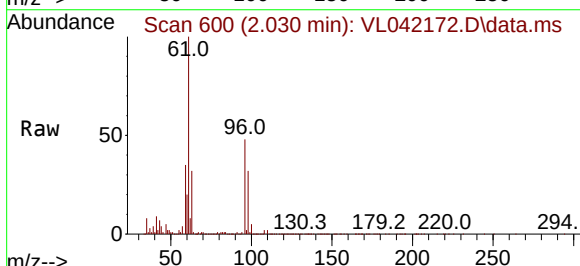
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

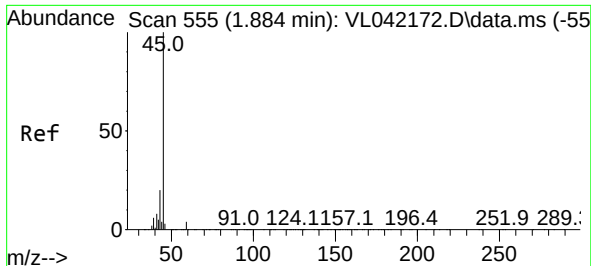
Tgt Ion: 59 Resp: 302616  
 Ion Ratio Lower Upper  
 59 100  
 57 11.1 8.9 13.3



#18  
 1,1-Dichloroethene  
 Concen: 9.128 ppbv  
 RT: 2.030 min Scan# 600  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 94236  
 Ion Ratio Lower Upper  
 96 100  
 61 209.5 167.6 251.4  
 98 66.9 53.5 80.3

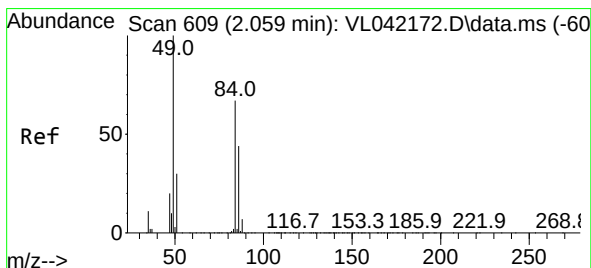
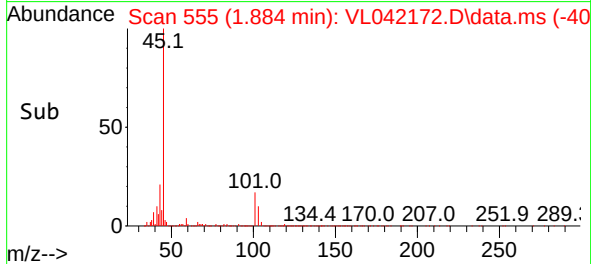
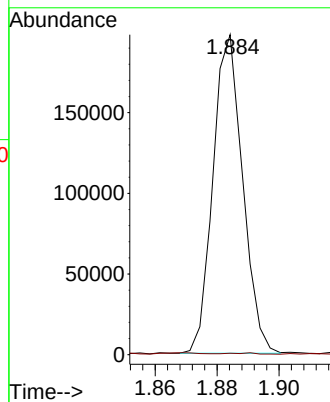
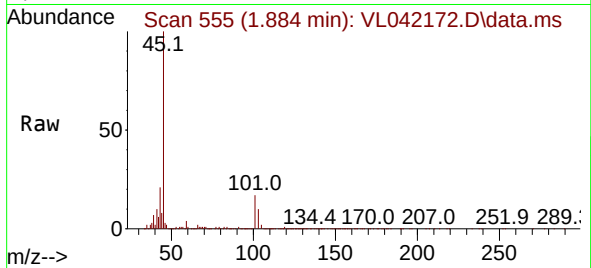




#19  
Isopropyl Alcohol  
Concen: 8.902 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

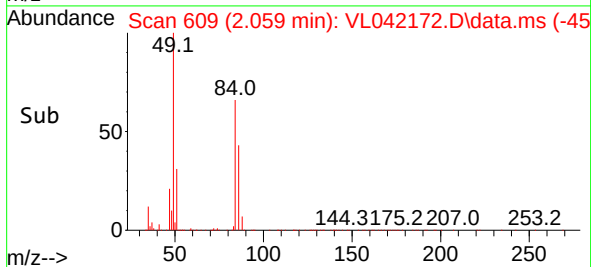
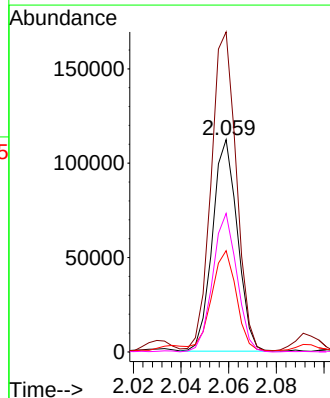
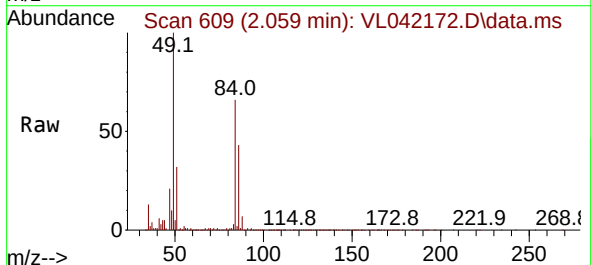
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

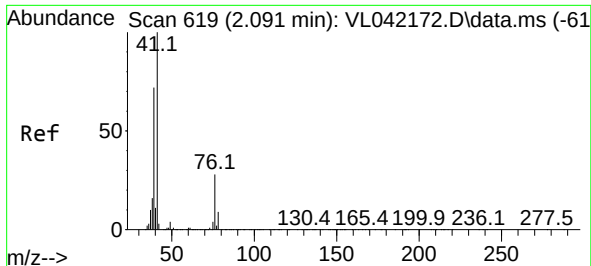
Tgt Ion: 45 Resp: 131359  
Ion Ratio Lower Upper  
45 100  
58 46.1 36.9 55.3



#20  
Methylene Chloride  
Concen: 8.401 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 81828  
Ion Ratio Lower Upper  
84 100  
49 150.3 120.2 180.4  
51 46.7 37.4 56.0  
86 65.5 52.4 78.6

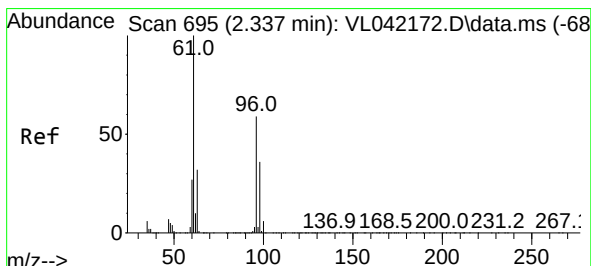
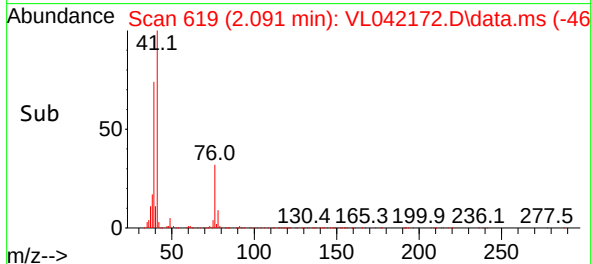
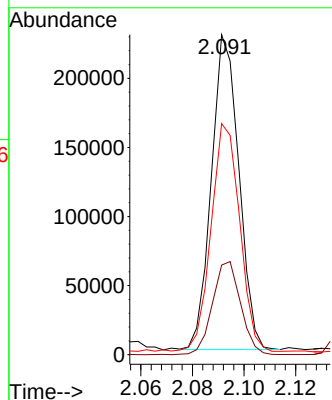
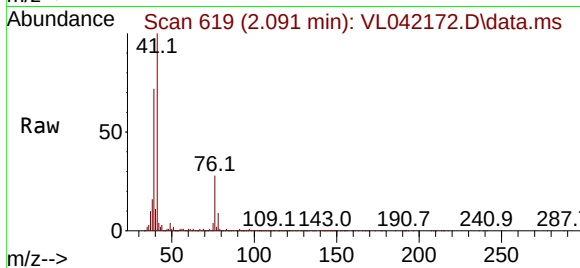




#21  
 Allyl Chloride  
 Concen: 9.141 ppbv  
 RT: 2.091 min Scan# 619  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

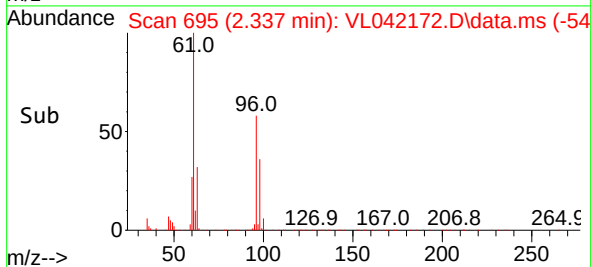
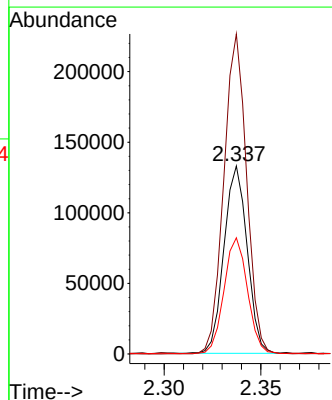
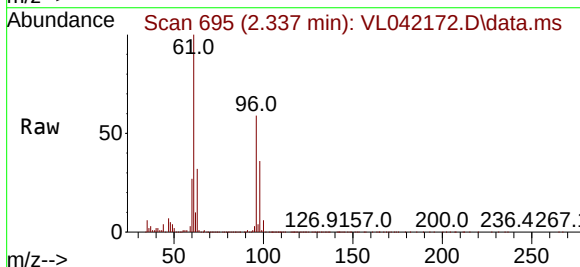
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

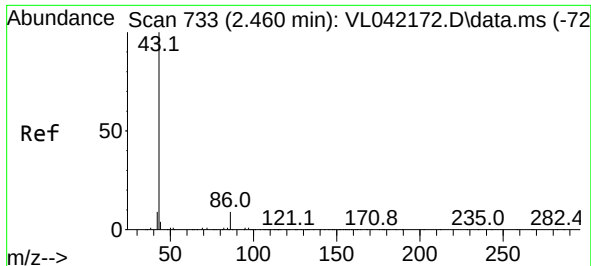
Tgt Ion: 41 Resp: 168602  
 Ion Ratio Lower Upper  
 41 100  
 76 30.1 24.1 36.1  
 39 76.4 61.1 91.7



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.149 ppbv  
 RT: 2.337 min Scan# 695  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 110371  
 Ion Ratio Lower Upper  
 96 100  
 61 170.7 136.6 204.8  
 98 61.8 49.4 74.2

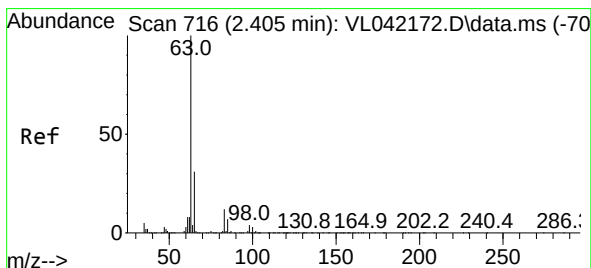
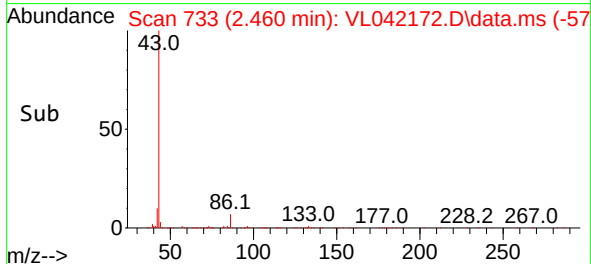
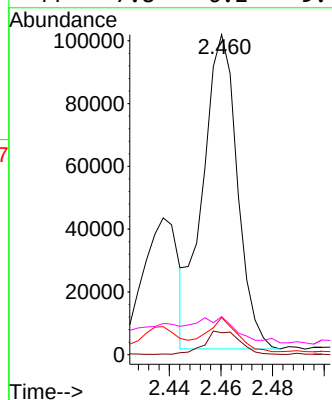
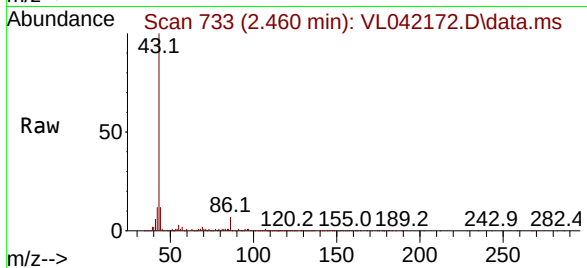




#23  
 Vinyl Acetate  
 Concen: 8.563 ppbv  
 RT: 2.460 min Scan# 716  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

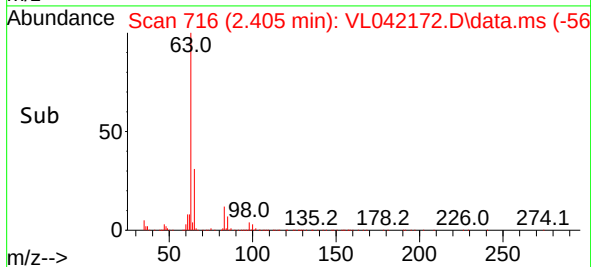
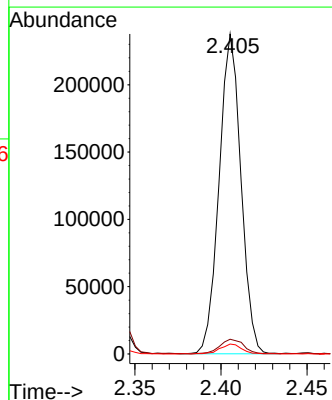
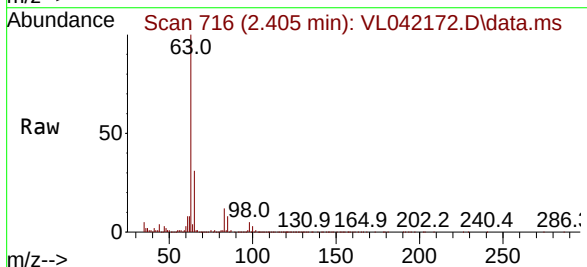
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

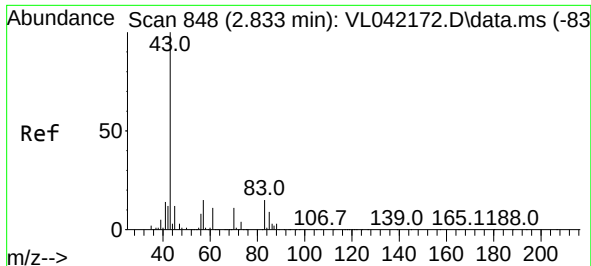
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 93080 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 86 6.9      | 5.5 8.3     |
| 42 10.8     | 8.6 13.0    |
| 44 7.8      | 6.2 9.4     |



#24  
 1,1-Dichloroethane  
 Concen: 9.484 ppbv  
 RT: 2.405 min Scan# 716  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

|             |              |
|-------------|--------------|
| Tgt Ion: 63 | Resp: 209753 |
| Ion Ratio   | Lower Upper  |
| 63 100      |              |
| 98 4.5      | 2.3 6.8      |
| 100 3.1     | 1.6 4.7      |

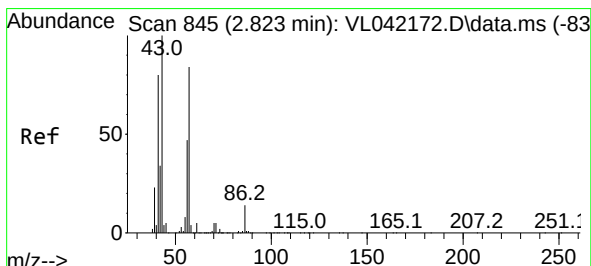
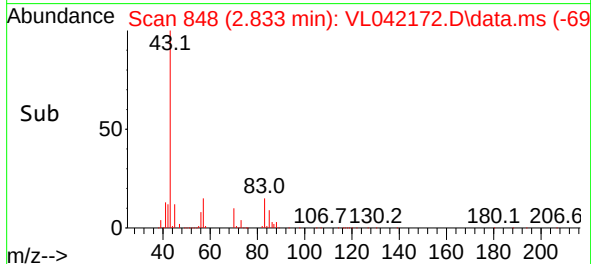
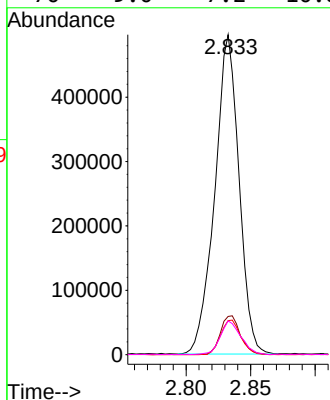
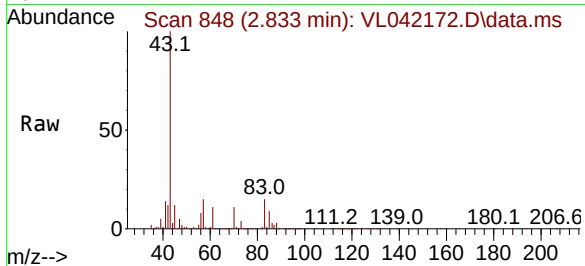




#25  
Ethyl Acetate  
Concen: 9.524 ppbv  
RT: 2.833 min Scan# 848  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

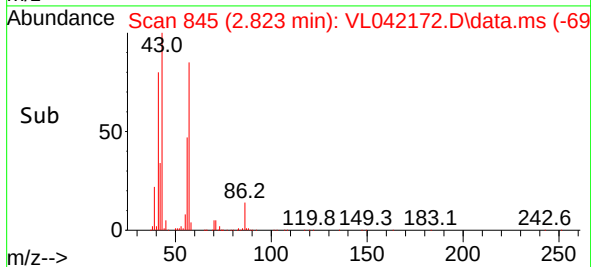
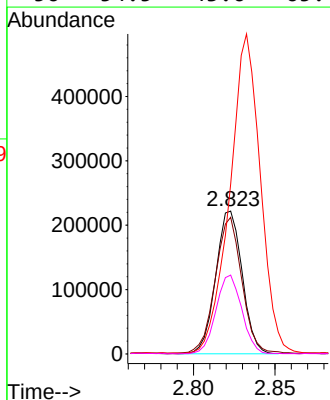
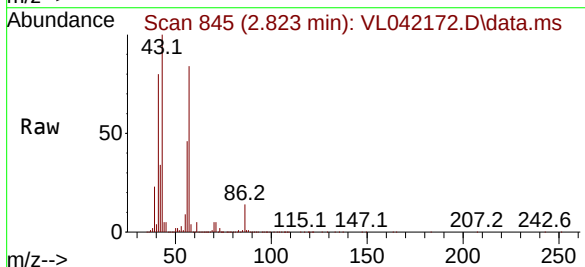
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 646501 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 10.2  | 8.2   | 12.2   |
| 61       | 9.1   | 7.3   | 10.9   |
| 70       | 9.0   | 7.2   | 10.8   |

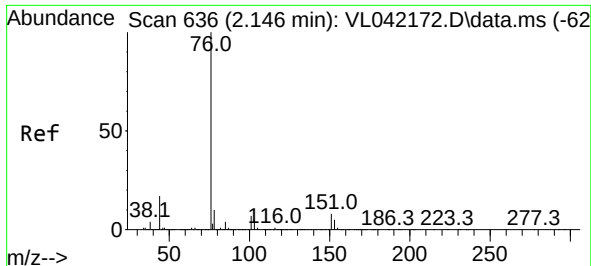


#26  
Hexane  
Concen: 9.510 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 249331 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 95.7  | 76.6  | 114.8  |
| 43       | 259.8 | 207.8 | 311.8  |
| 56       | 54.5  | 43.6  | 65.4   |



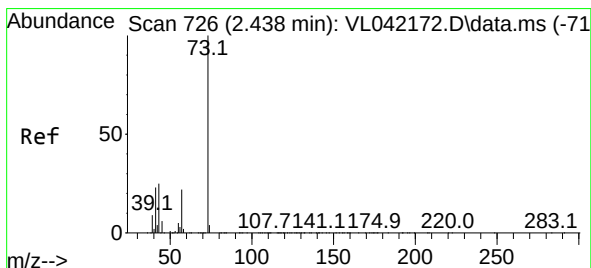
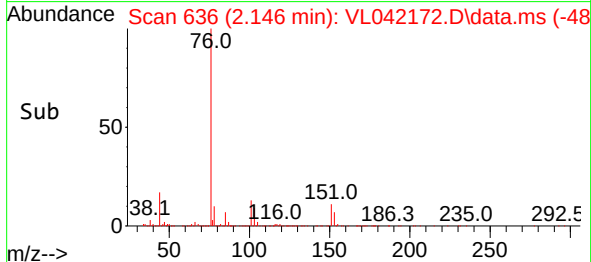
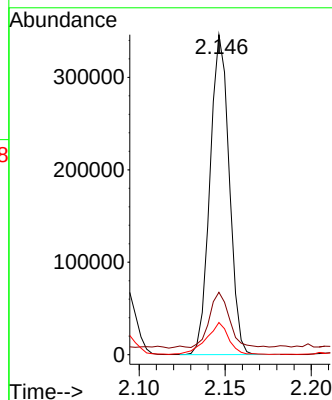
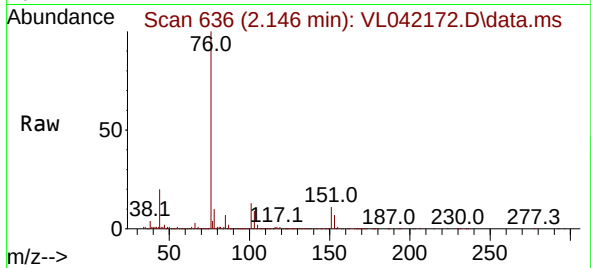




#27  
Carbon Disulfide  
Concen: 9.550 ppbv  
RT: 2.146 min Scan# 636  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

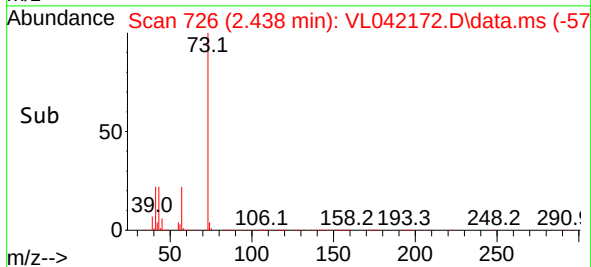
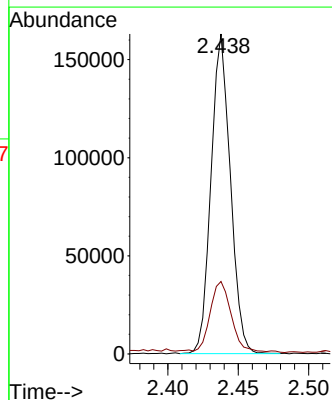
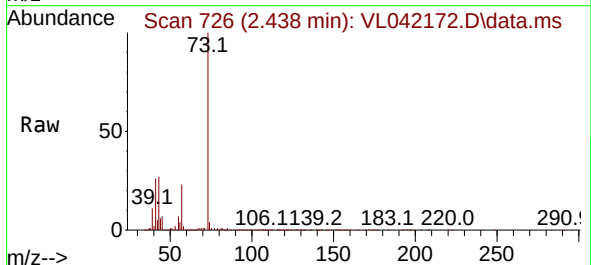
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

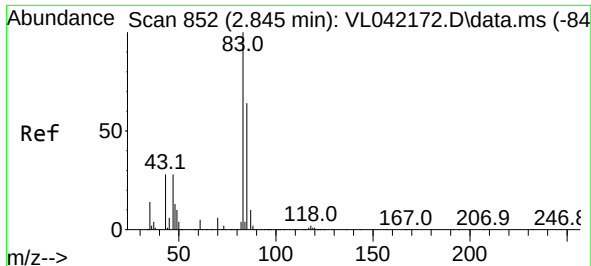
Tgt Ion: 76 Resp: 268507  
Ion Ratio Lower Upper  
76 100  
44 18.4 14.7 22.1  
78 11.6 9.3 13.9



#28  
Methyl tert-Butyl Ether  
Concen: 9.520 ppbv  
RT: 2.438 min Scan# 726  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 73 Resp: 155398  
Ion Ratio Lower Upper  
73 100  
57 25.6 20.5 30.7

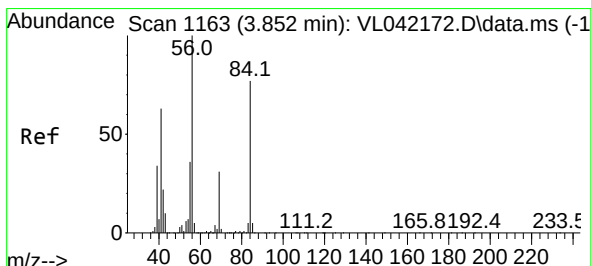
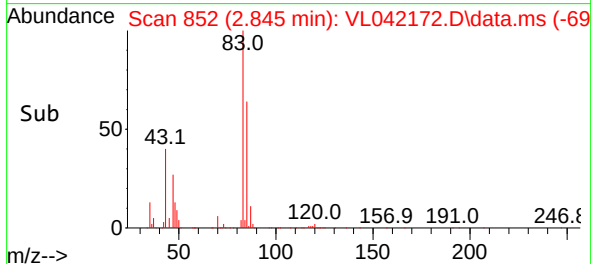
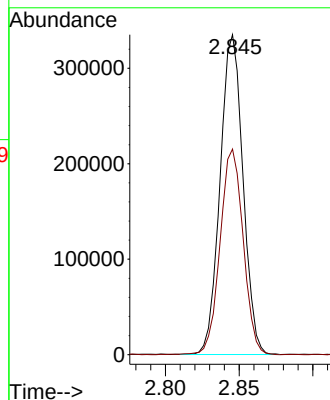
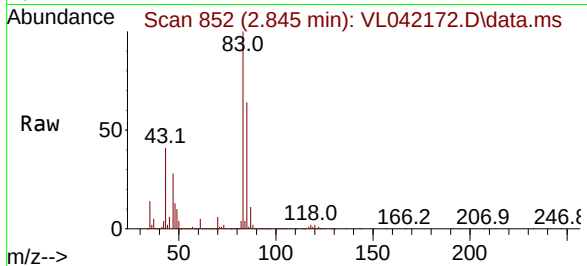




#29  
Chloroform  
Concen: 9.415 ppbv  
RT: 2.845 min Scan# 852  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

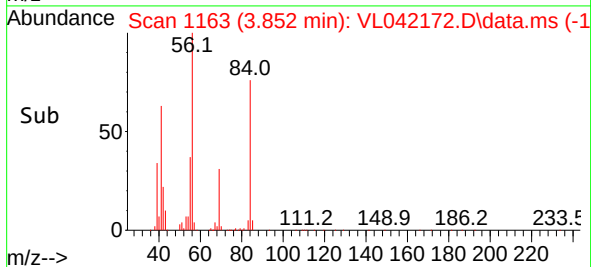
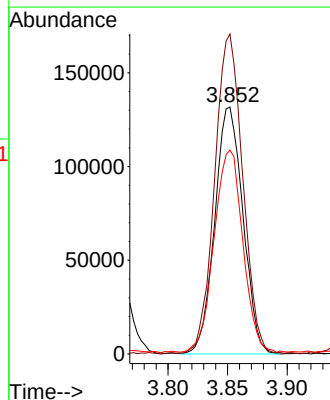
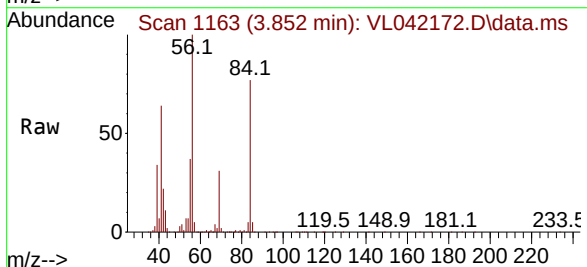
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

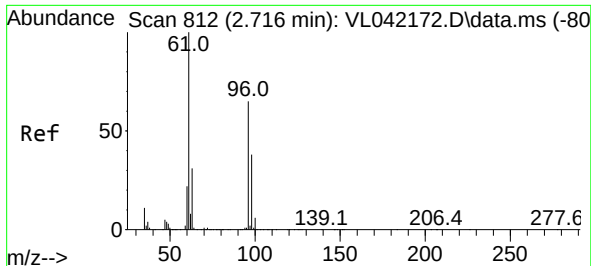
Tgt Ion: 83 Resp: 361264  
Ion Ratio Lower Upper  
83 100  
85 64.3 51.4 77.2



#30  
Cyclohexane  
Concen: 9.537 ppbv  
RT: 3.852 min Scan# 1163  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 217215  
Ion Ratio Lower Upper  
84 100  
56 128.5 102.8 154.2  
41 83.1 66.5 99.7

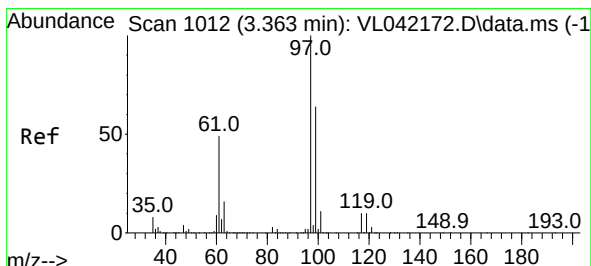
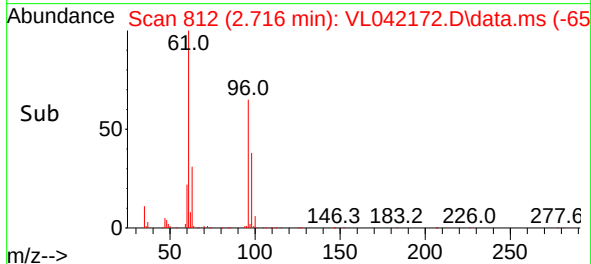
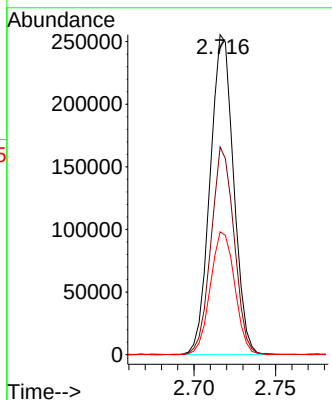
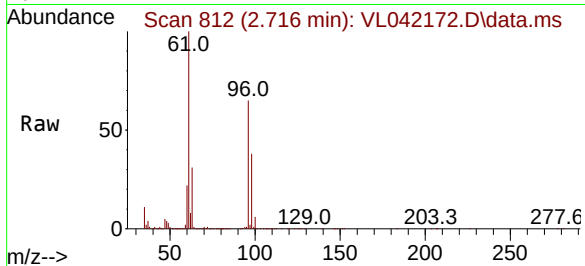




#31  
 cis-1,2-Dichloroethene  
 Concen: 9.634 ppbv  
 RT: 2.716 min Scan# 812  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

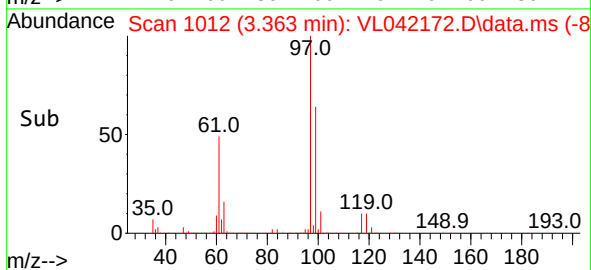
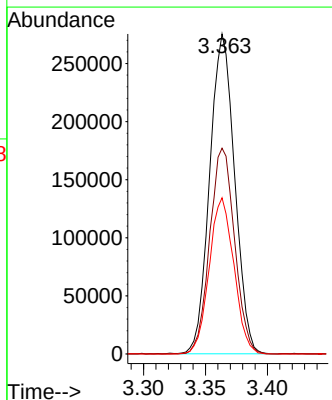
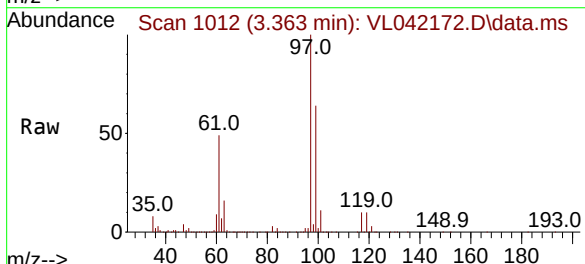
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

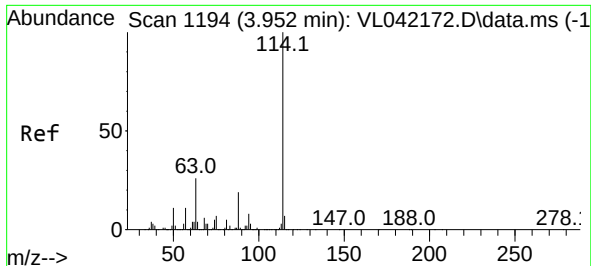
Tgt Ion: 61 Resp: 256425  
 Ion Ratio Lower Upper  
 61 100  
 96 64.8 51.8 77.8  
 98 38.3 30.6 46.0



#32  
 1,1,1-Trichloroethane  
 Concen: 8.784 ppbv  
 RT: 3.363 min Scan# 1012  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

Tgt Ion: 97 Resp: 385628  
 Ion Ratio Lower Upper  
 97 100  
 99 64.4 51.5 77.3  
 61 48.4 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICCC010

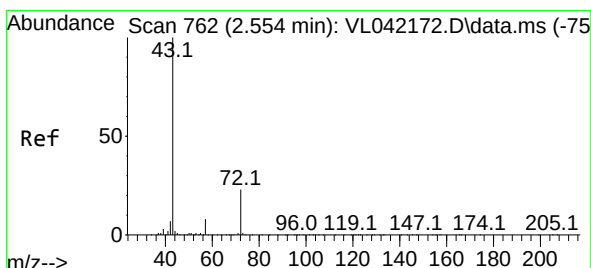
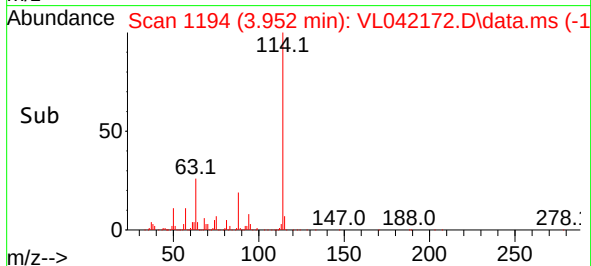
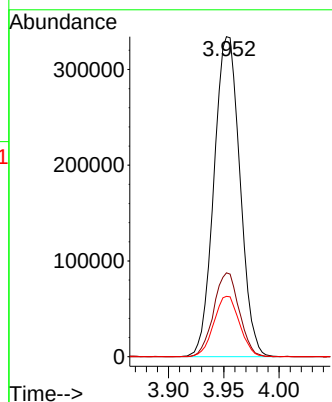
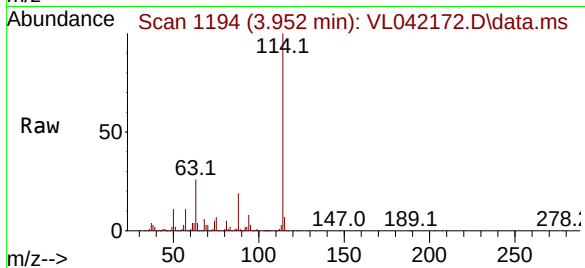
Tgt Ion:114 Resp: 545068

Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

88 18.7 15.0 22.4



#34

2-Butanone

Concen: 9.203 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.000 min

Lab File: VL042172.D

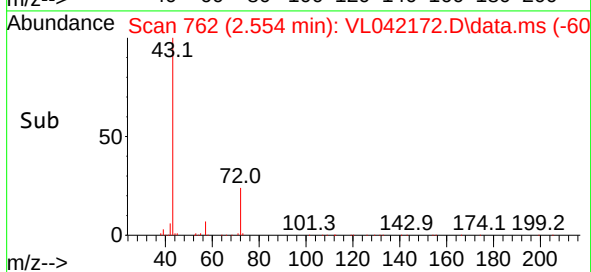
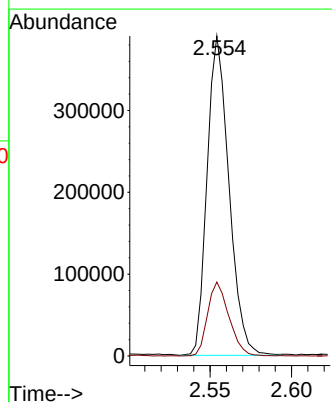
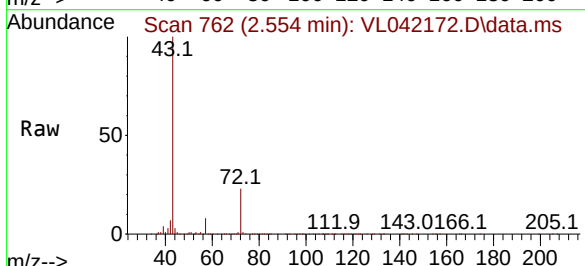
Acq: 27 Mar 2025 08:26

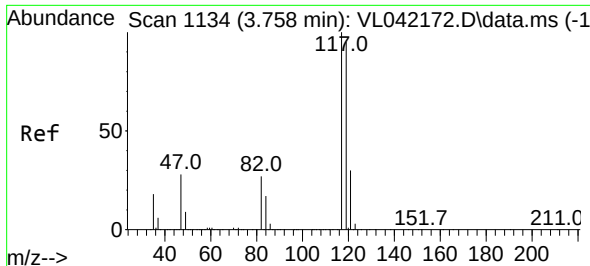
Tgt Ion: 43 Resp: 363735

Ion Ratio Lower Upper

43 100

72 22.7 18.2 27.2

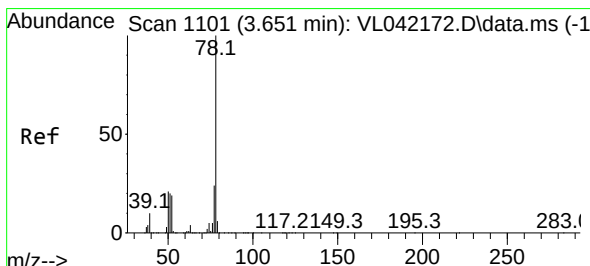
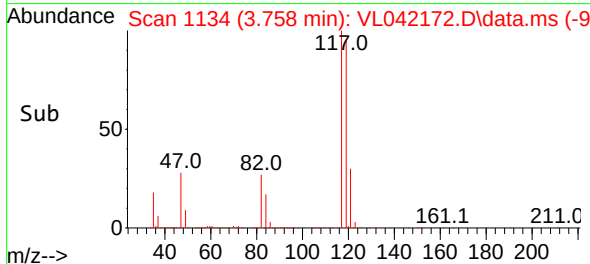
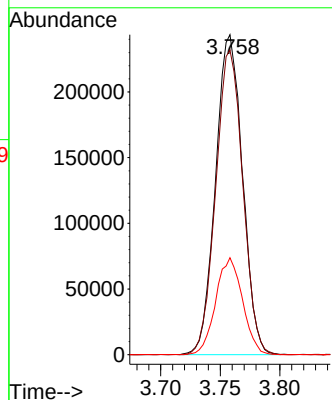
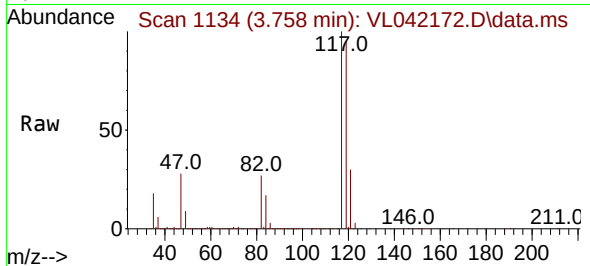




#35  
Carbon Tetrachloride  
Concen: 9.129 ppbv  
RT: 3.758 min Scan# 1134  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

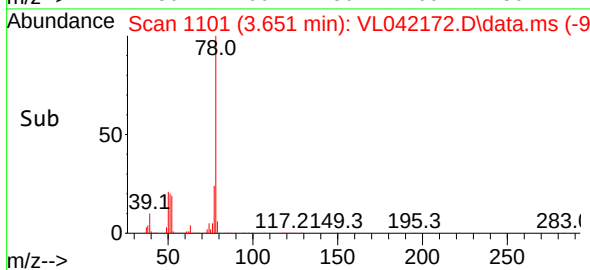
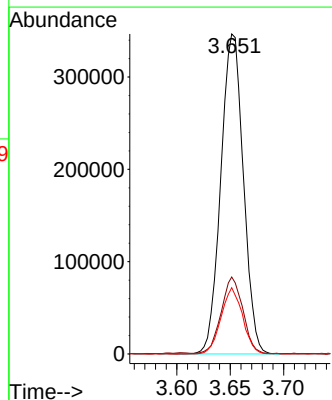
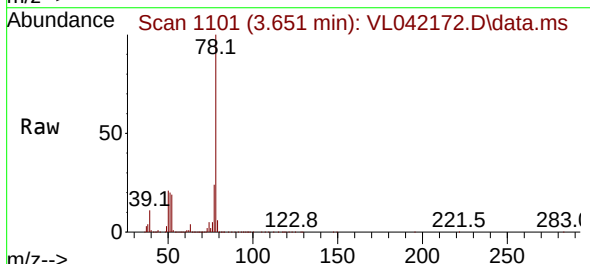
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

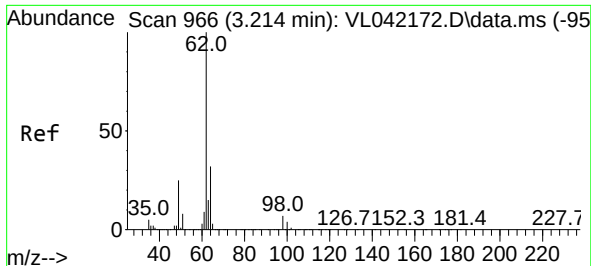
Tgt Ion:117 Resp: 382925  
Ion Ratio Lower Upper  
117 100  
119 95.2 76.2 114.2  
121 30.3 24.2 36.4



#36  
Benzene  
Concen: 9.417 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 78 Resp: 508860  
Ion Ratio Lower Upper  
78 100  
77 23.9 19.1 28.7  
50 20.7 16.6 24.8

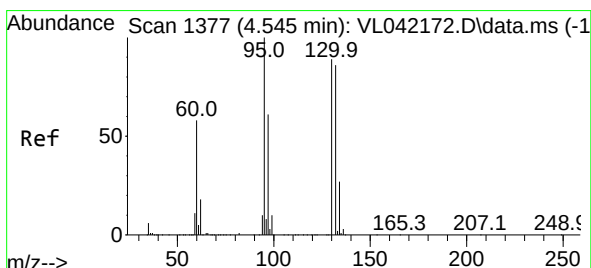
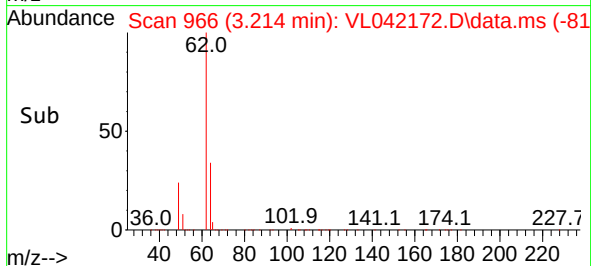
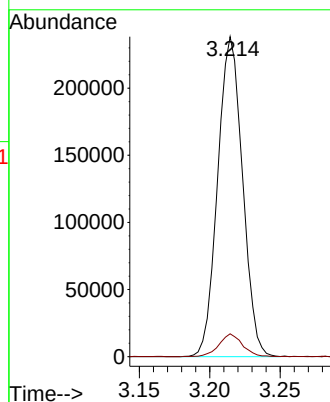
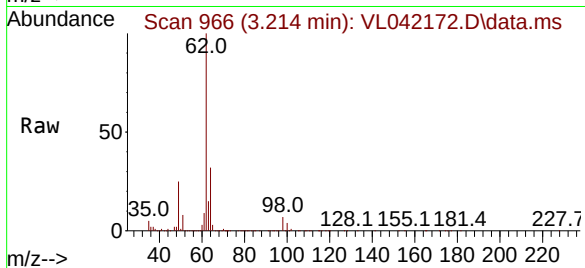




#37  
1,2-Dichloroethane  
Concen: 9.469 ppbv  
RT: 3.214 min Scan# 966  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

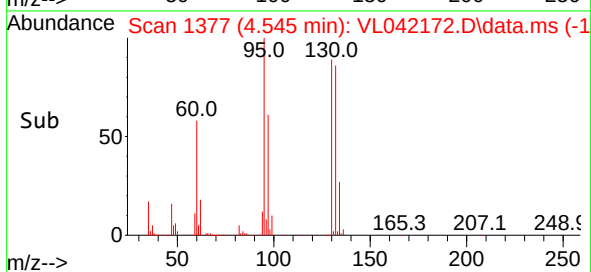
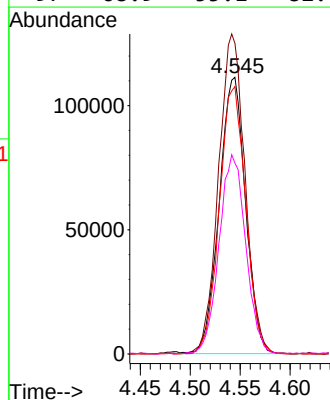
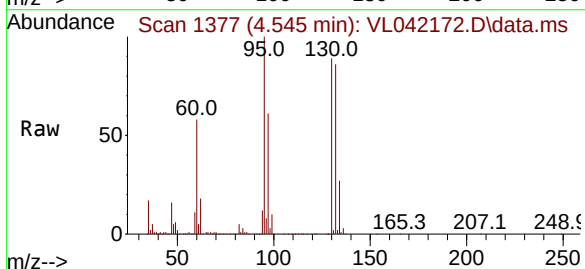
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

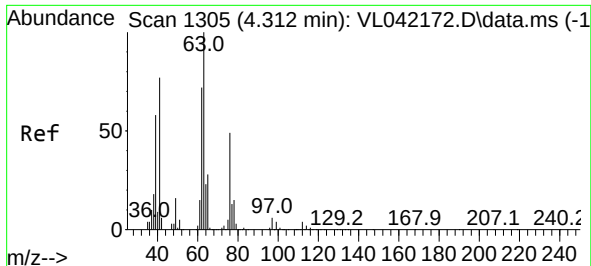
Tgt Ion: 62 Resp: 292937  
Ion Ratio Lower Upper  
62 100  
98 6.8 5.4 8.2



#38  
Trichloroethene  
Concen: 9.045 ppbv  
RT: 4.545 min Scan# 1377  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion:130 Resp: 204027  
Ion Ratio Lower Upper  
130 100  
95 112.3 89.8 134.8  
132 96.8 77.4 116.2  
97 68.9 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.321 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICCC010

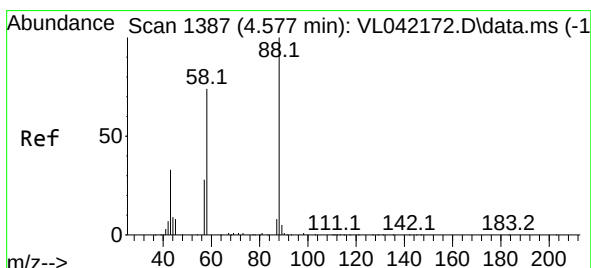
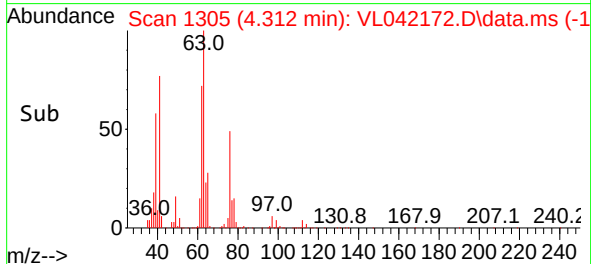
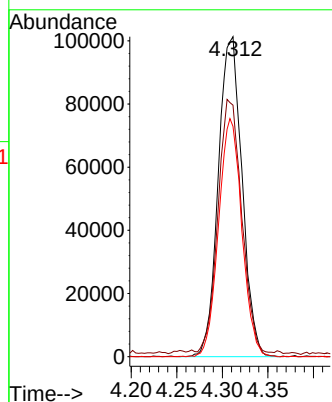
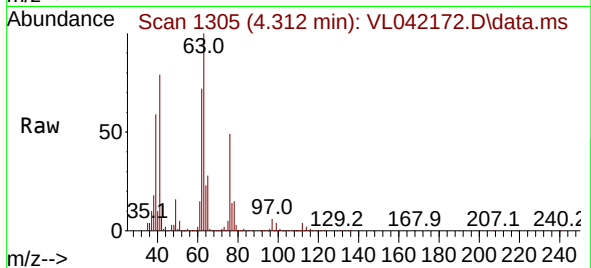
Tgt Ion: 63 Resp: 183439

Ion Ratio Lower Upper

63 100

41 77.1 61.7 92.5

62 72.0 57.6 86.4



#40

1,4-Dioxane

Concen: 9.042 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Tgt Ion: 88 Resp: 92327

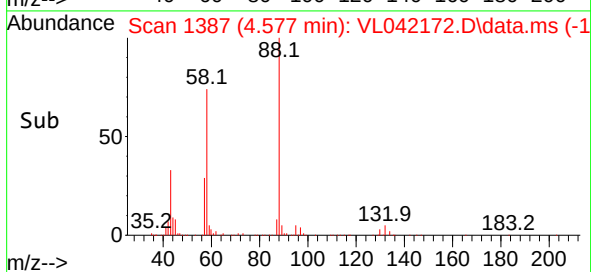
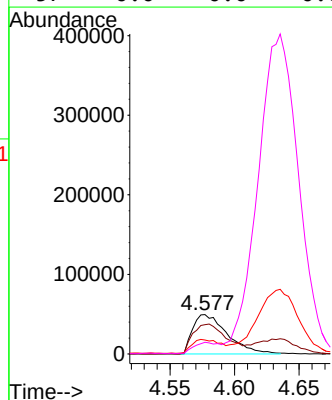
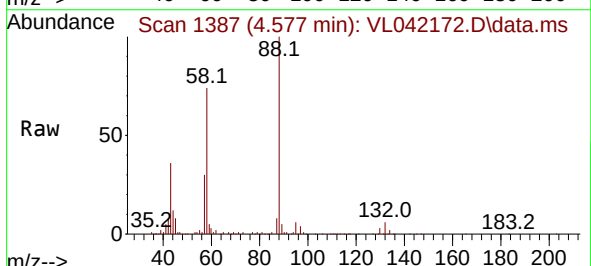
Ion Ratio Lower Upper

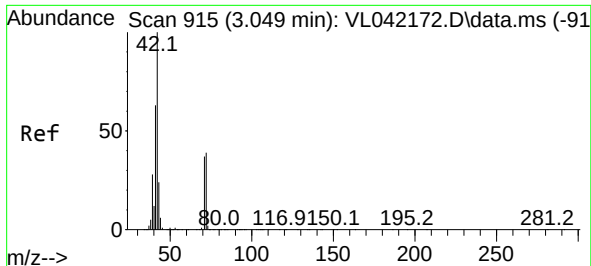
88 100

58 78.4 62.7 94.1

43 28.7 23.0 34.4

57 0.0 0.0 0.0

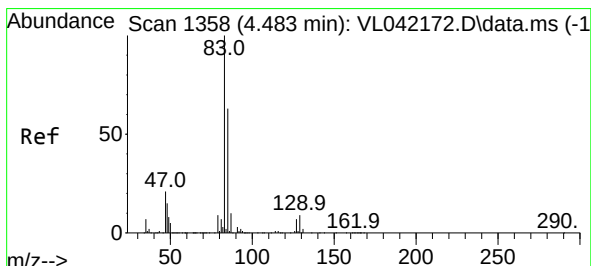
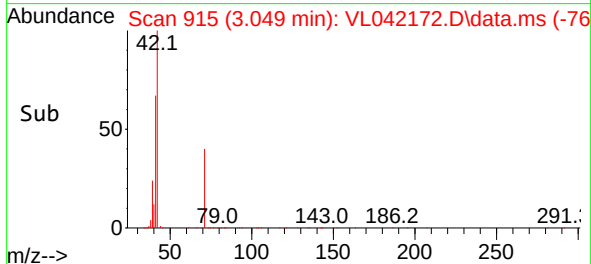
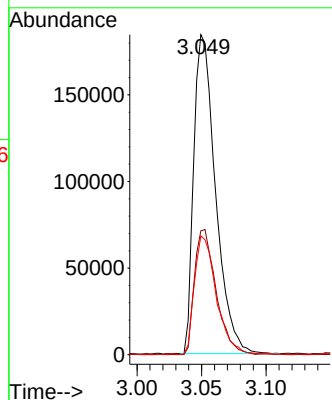
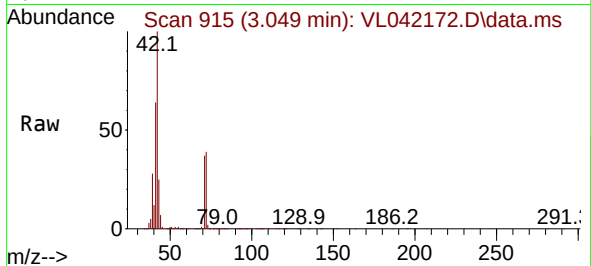




#41  
Tetrahydrofuran  
Concen: 9.643 ppbv  
RT: 3.049 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

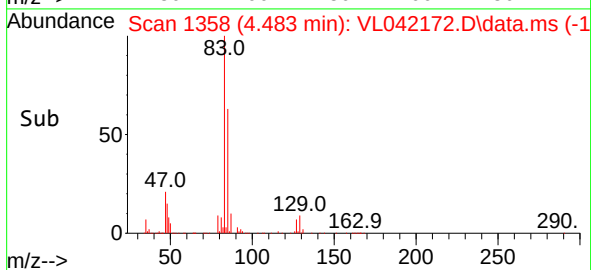
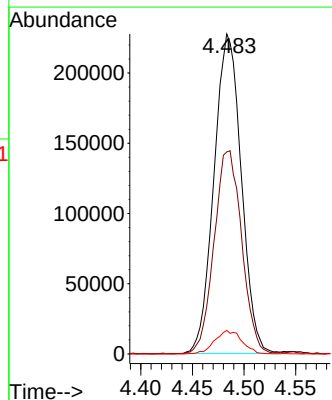
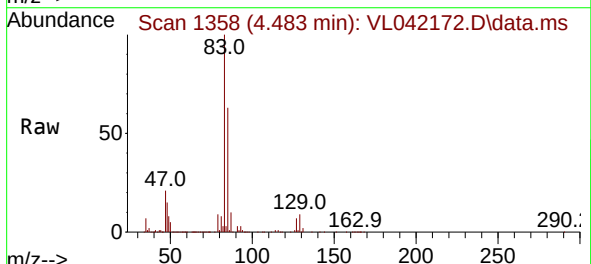
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 42 Resp: 216851  
Ion Ratio Lower Upper  
42 100  
72 39.2 31.4 47.0  
71 37.8 30.2 45.4

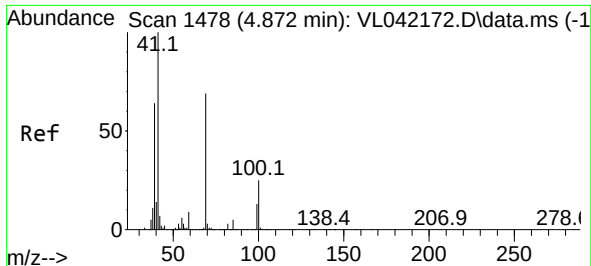


#42  
Bromodichloromethane  
Concen: 9.822 ppbv  
RT: 4.483 min Scan# 1358  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 83 Resp: 418887  
Ion Ratio Lower Upper  
83 100  
85 63.1 50.5 75.7  
127 7.4 5.9 8.9



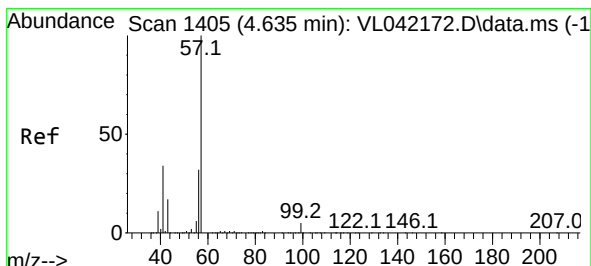
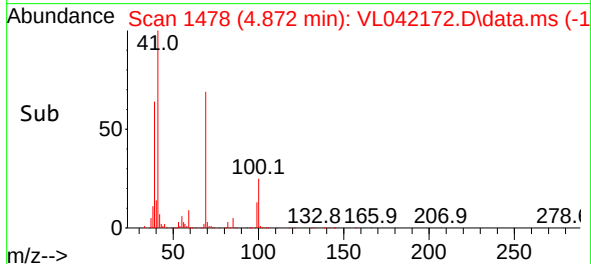
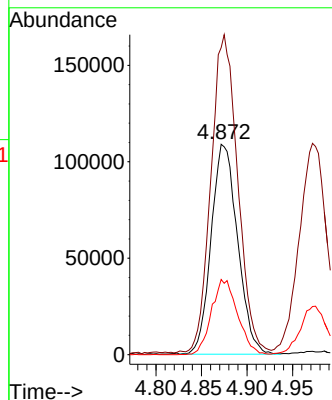
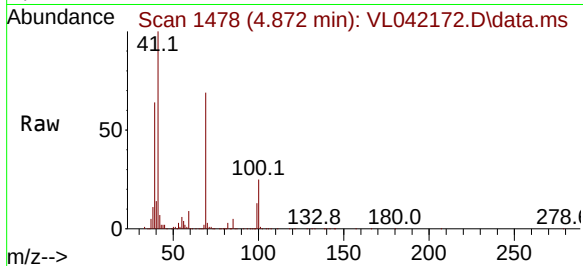




#43  
Methyl Methacrylate  
Concen: 9.618 ppbv  
RT: 4.872 min Scan# 1478  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

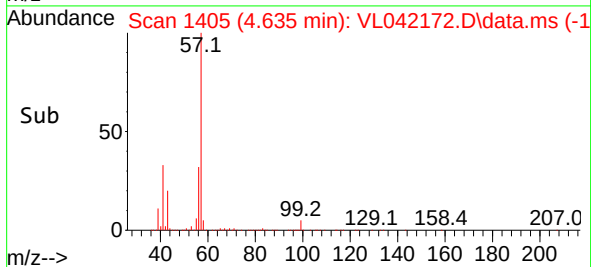
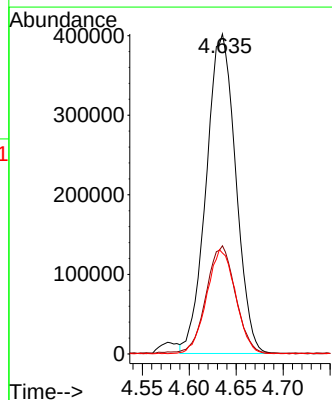
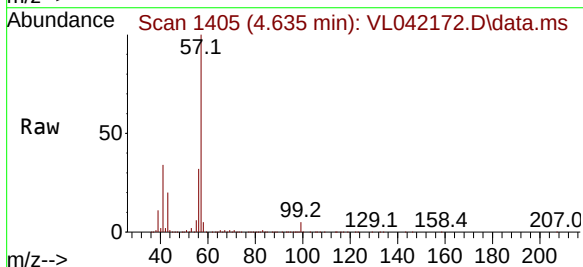
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

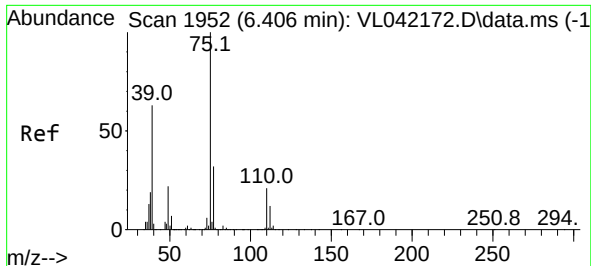
Tgt Ion: 69 Resp: 219399  
Ion Ratio Lower Upper  
69 100  
41 154.7 123.8 185.6  
100 35.5 28.4 42.6



#44  
2,2,4-Trimethylpentane  
Concen: 9.600 ppbv  
RT: 4.635 min Scan# 1405  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 57 Resp: 876649  
Ion Ratio Lower Upper  
57 100  
41 33.5 26.8 40.2  
56 32.0 25.6 38.4

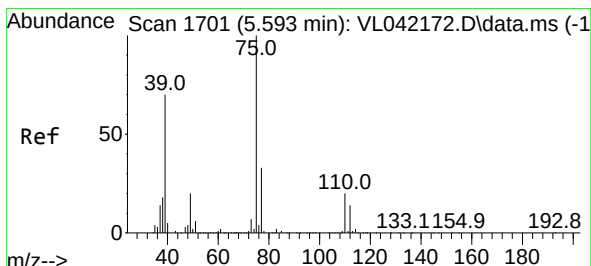
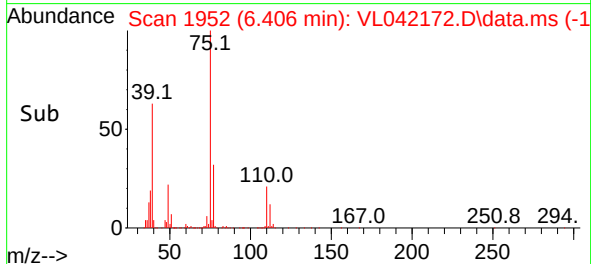
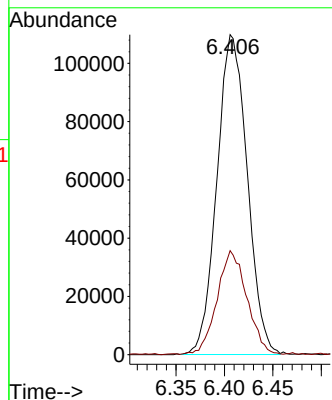
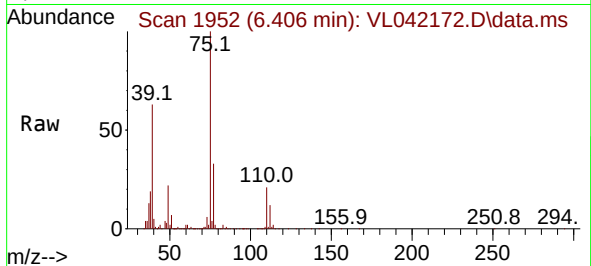




#45  
t-1,3-Dichloropropene  
Concen: 9.746 ppbv  
RT: 6.406 min Scan# 1952  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

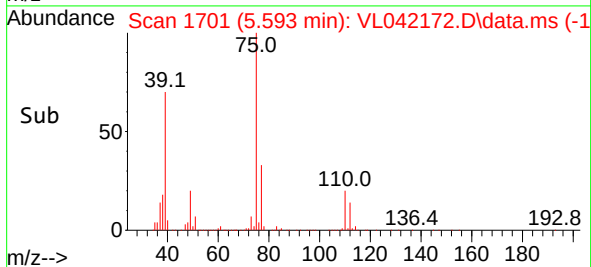
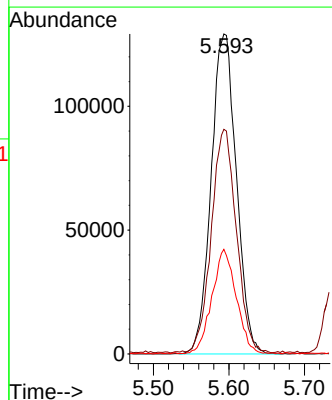
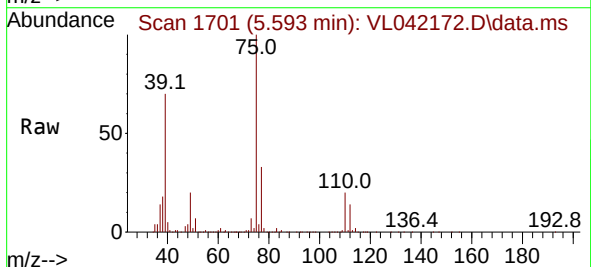
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

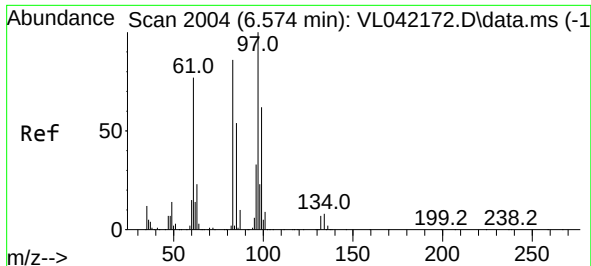
Tgt Ion: 75 Resp: 239180  
Ion Ratio Lower Upper  
75 100  
77 32.5 26.0 39.0



#46  
cis-1,3-Dichloropropene  
Concen: 9.973 ppbv  
RT: 5.593 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 75 Resp: 300021  
Ion Ratio Lower Upper  
75 100  
39 69.7 55.8 83.6  
77 32.5 26.0 39.0

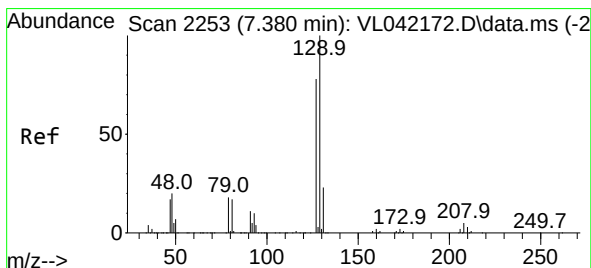
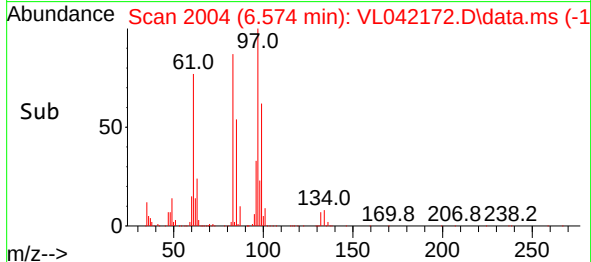
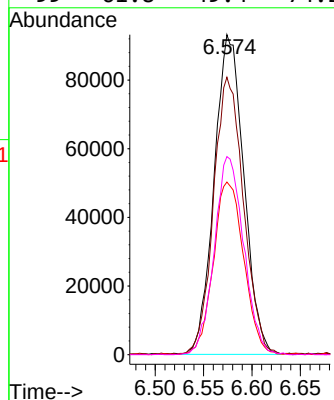
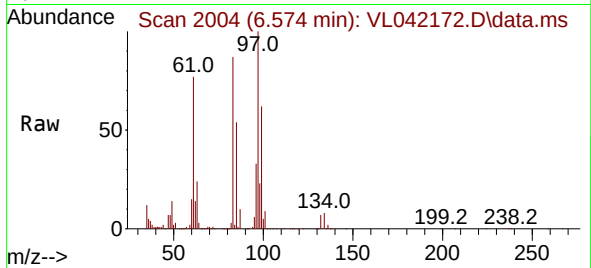




#47  
1,1,2-Trichloroethane  
Concen: 9.526 ppbv  
RT: 6.574 min Scan# 2004  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

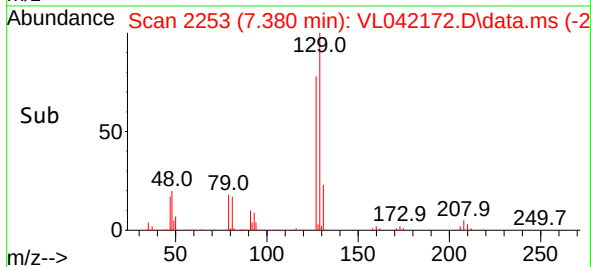
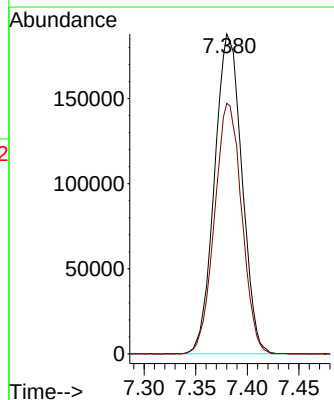
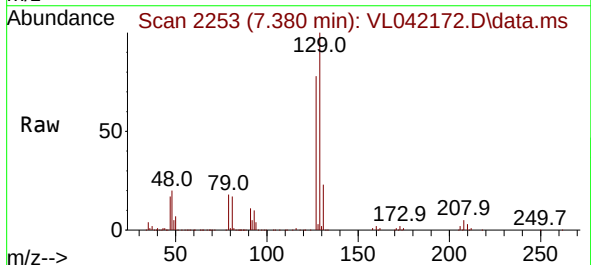
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

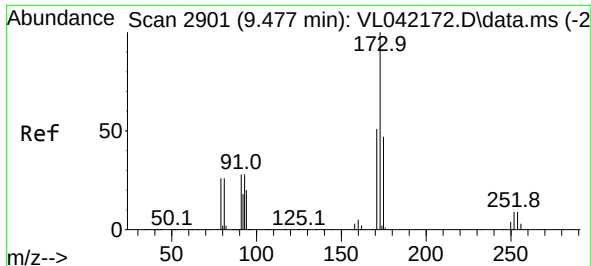
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 198176 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 86.5  | 69.2  | 103.8  |
| 85       | 53.9  | 43.1  | 64.7   |
| 99       | 61.8  | 49.4  | 74.2   |



#48  
Dibromochloromethane  
Concen: 9.828 ppbv  
RT: 7.380 min Scan# 2253  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 346499 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 78.1  | 39.1  | 117.2  |

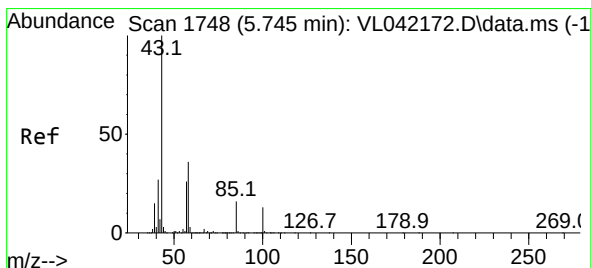
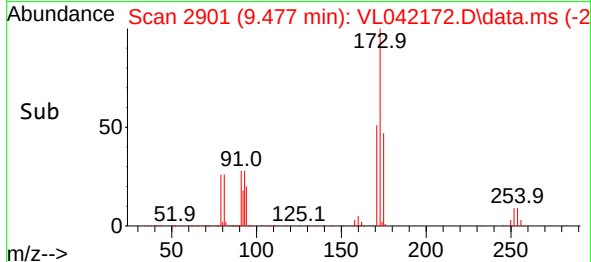
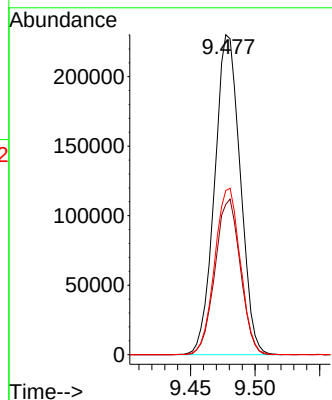
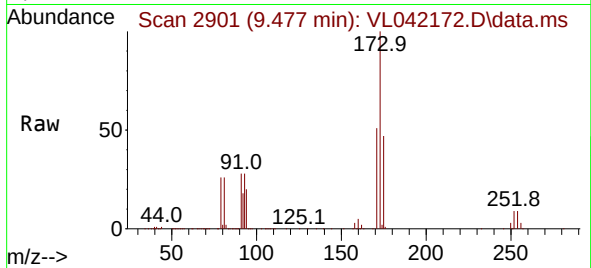




#49  
Bromoform  
Concen: 10.021 ppbv  
RT: 9.477 min Scan# 2901  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

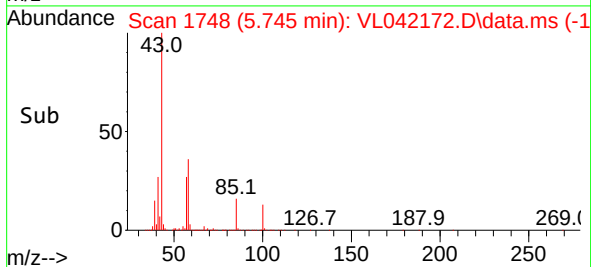
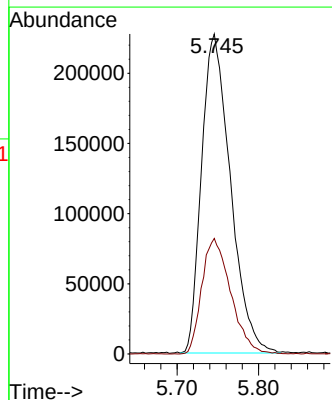
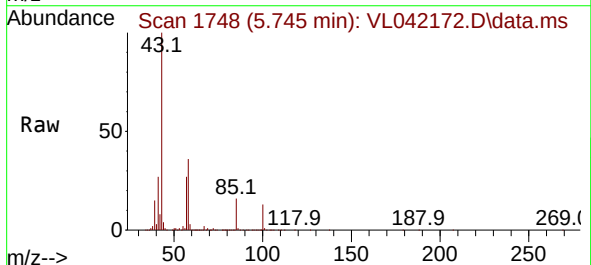
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

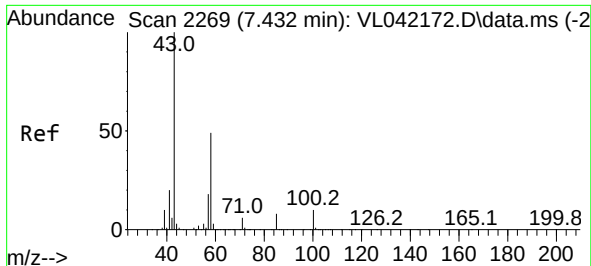
Tgt Ion:173 Resp: 317189  
Ion Ratio Lower Upper  
173 100  
175 48.2 38.6 57.8  
171 52.2 41.8 62.6



#50  
4-Methyl-2-Pentanone  
Concen: 8.934 ppbv  
RT: 5.745 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 559800  
Ion Ratio Lower Upper  
43 100  
58 36.3 29.0 43.6

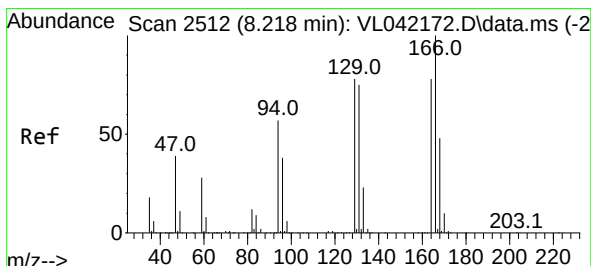
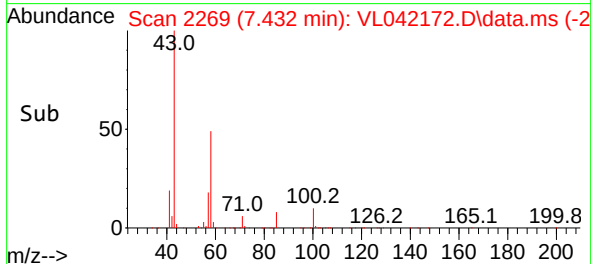
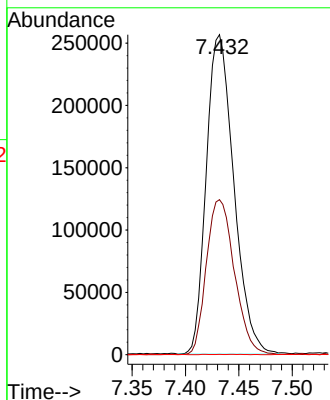
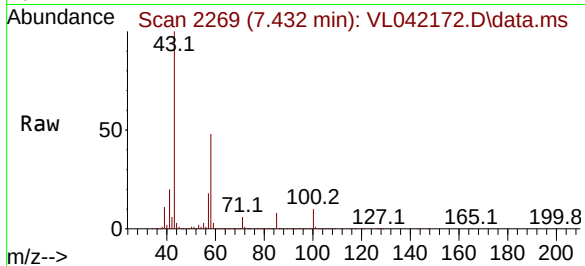




#51  
2-Hexanone  
Concen: 8.848 ppbv  
RT: 7.432 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

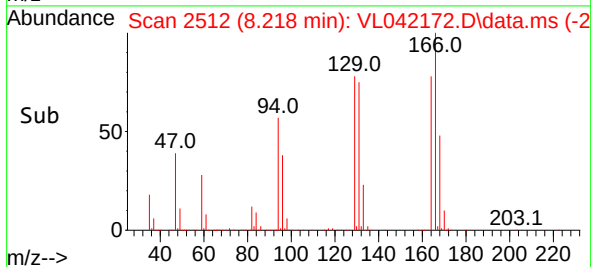
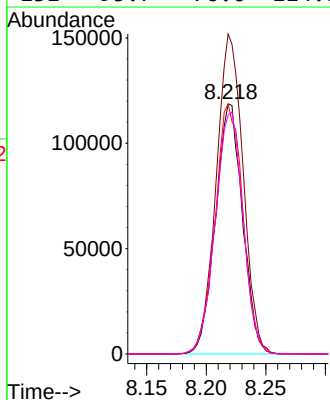
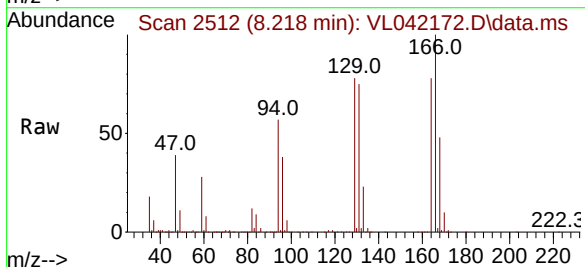
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

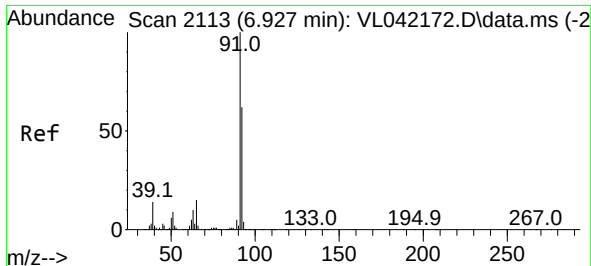
Tgt Ion: 43 Resp: 460013  
Ion Ratio Lower Upper  
43 100  
58 49.6 39.7 59.5  
98 0.1 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 8.722 ppbv  
RT: 8.218 min Scan# 2512  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 164 Resp: 186912  
Ion Ratio Lower Upper  
164 100  
166 128.1 102.5 153.7  
129 99.8 79.8 119.8  
131 95.7 76.6 114.8

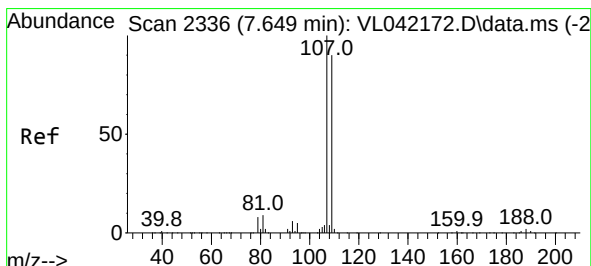
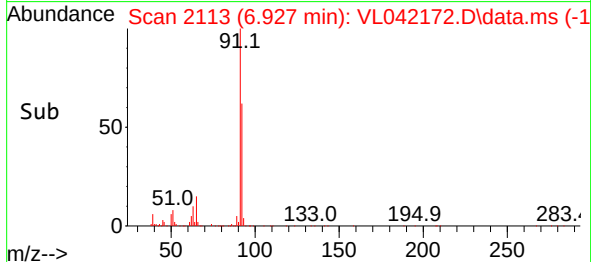
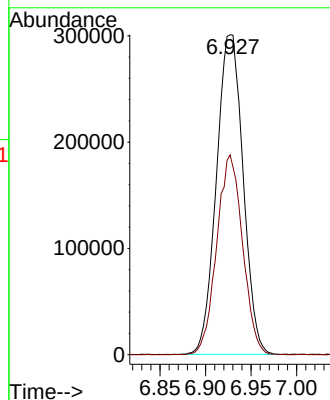
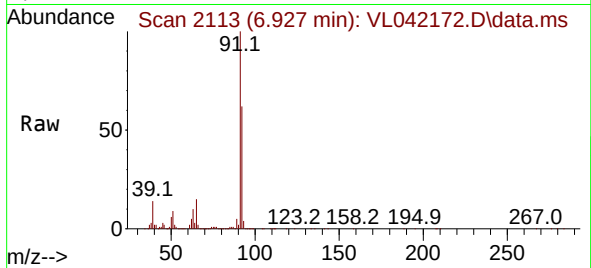




#53  
Toluene  
Concen: 9.576 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

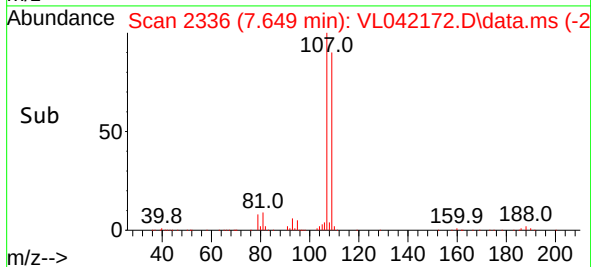
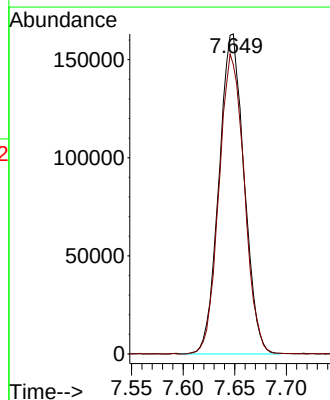
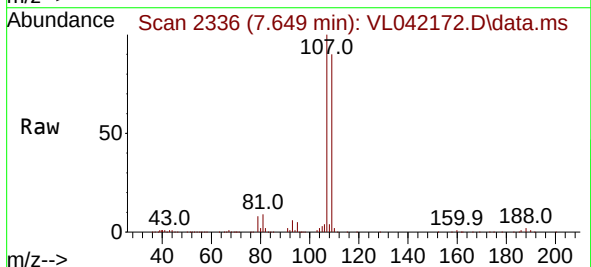
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

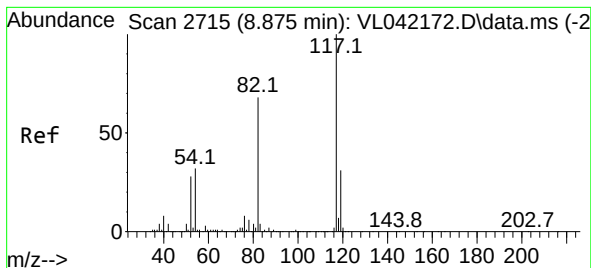
Tgt Ion: 91 Resp: 613378  
Ion Ratio Lower Upper  
91 100  
92 60.5 48.4 72.6



#54  
1,2-Dibromoethane  
Concen: 9.536 ppbv  
RT: 7.649 min Scan# 2336  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 107 Resp: 276797  
Ion Ratio Lower Upper  
107 100  
109 90.3 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICCC010

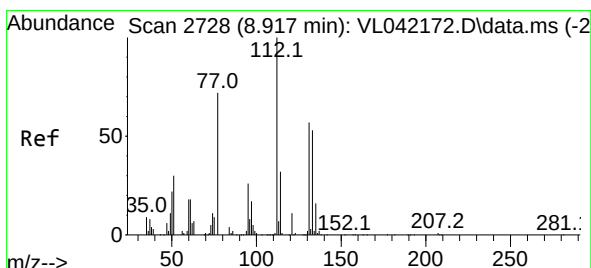
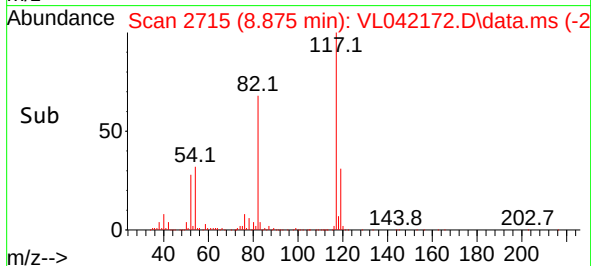
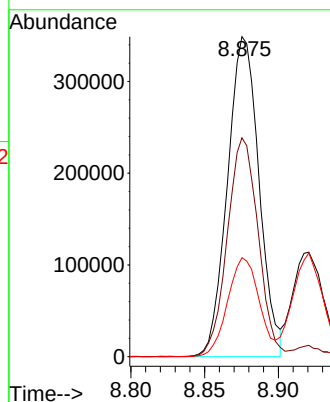
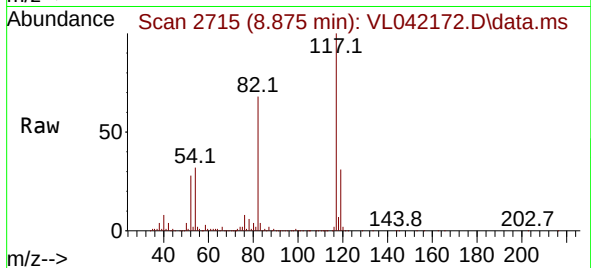
Tgt Ion:117 Resp: 519536

Ion Ratio Lower Upper

117 100

82 69.7 55.8 83.6

119 31.9 25.5 38.3



#56

1,1,1,2-Tetrachloroethane

Concen: 9.268 ppbv

RT: 8.917 min Scan# 2728

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

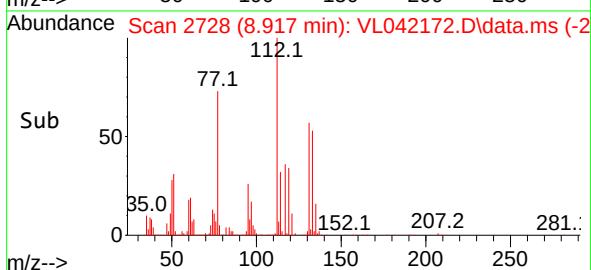
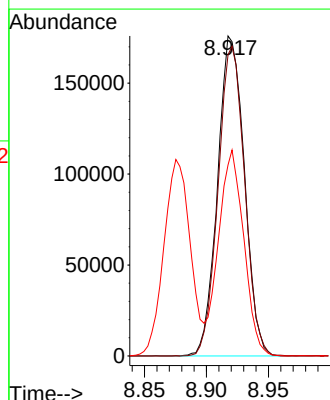
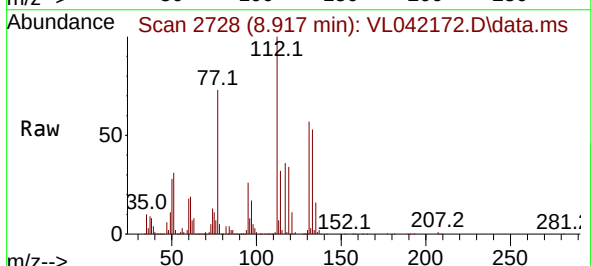
Tgt Ion:131 Resp: 265037

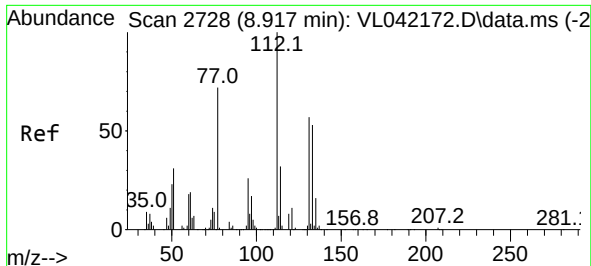
Ion Ratio Lower Upper

131 100

133 95.7 76.6 114.8

119 62.2 49.8 74.6

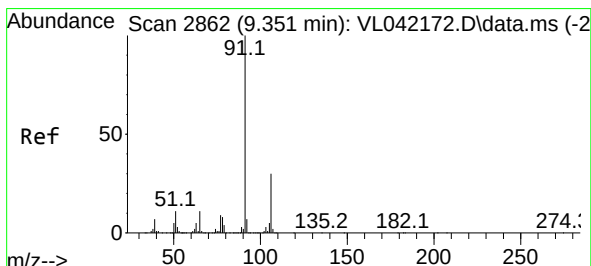
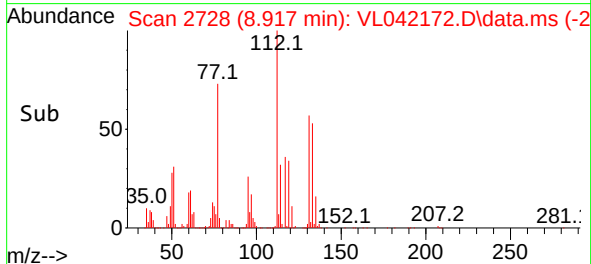
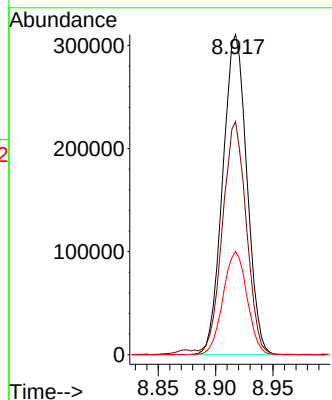
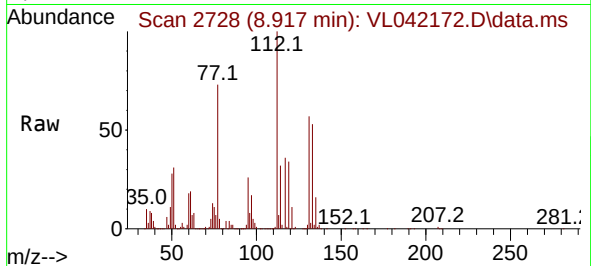




#57  
Chlorobenzene  
Concen: 9.223 ppbv  
RT: 8.917 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

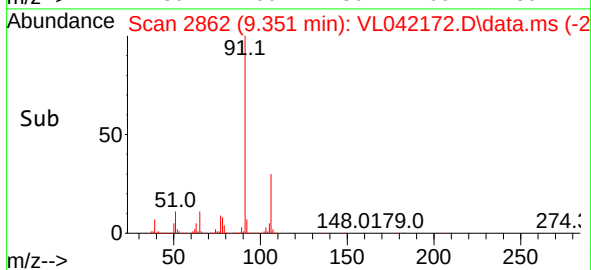
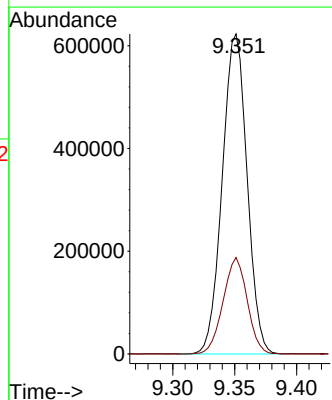
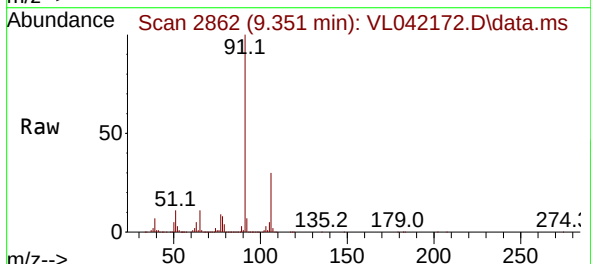
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

Tgt Ion:112 Resp: 454511  
Ion Ratio Lower Upper  
112 100  
77 72.7 58.2 87.2  
114 32.3 29.1 35.5

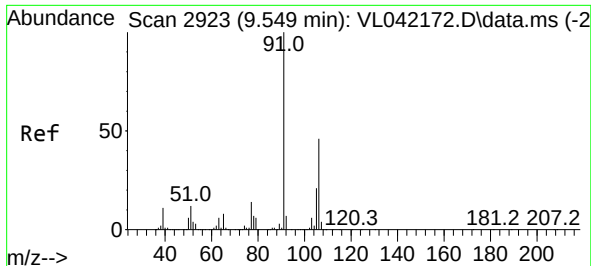


#58  
Ethyl Benzene  
Concen: 9.406 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 868003  
Ion Ratio Lower Upper  
91 100  
106 30.2 24.2 36.2







#59

m/p-Xylene

Concen: 8.071 ppbv

RT: 9.549 min Scan# 2923

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA\_1

ClientSampleId :

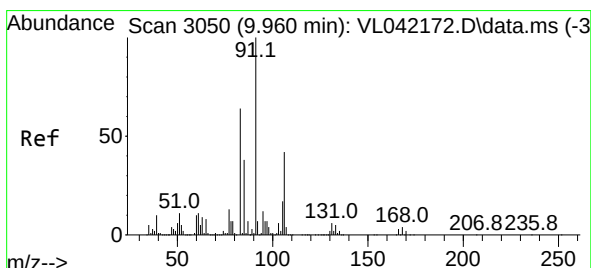
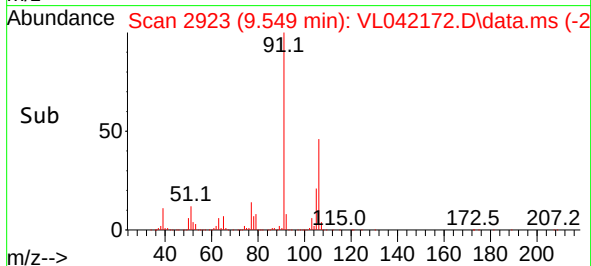
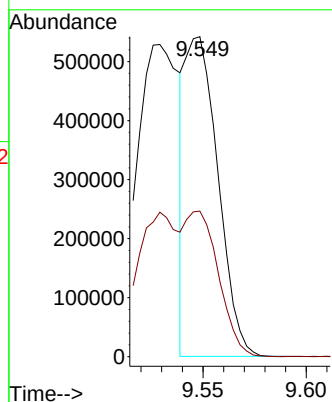
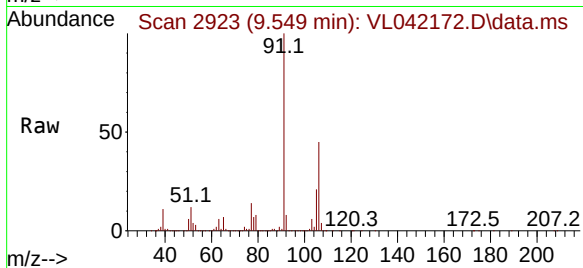
VSTDICCC010

Tgt Ion: 91 Resp: 595445

Ion Ratio Lower Upper

91 100

106 105.0 36.4 54.6#



#60

o-Xylene

Concen: 9.340 ppbv

RT: 9.960 min Scan# 3050

Delta R.T. 0.000 min

Lab File: VL042172.D

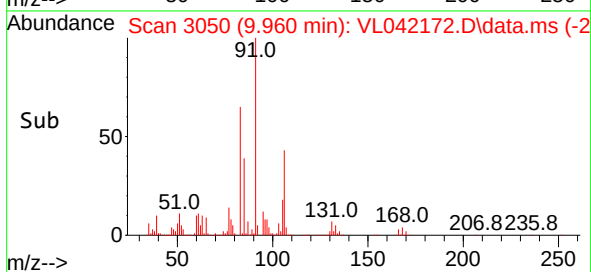
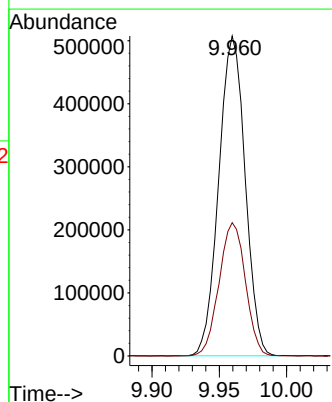
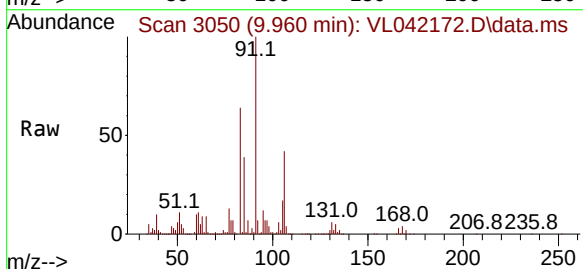
Acq: 27 Mar 2025 08:26

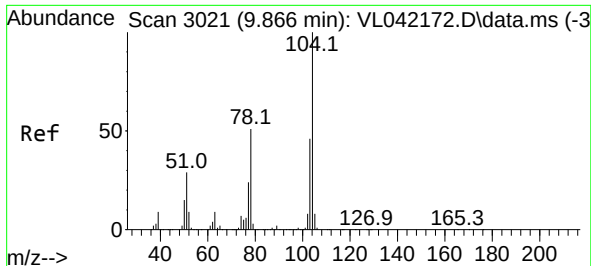
Tgt Ion: 91 Resp: 689933

Ion Ratio Lower Upper

91 100

106 41.7 20.8 62.5

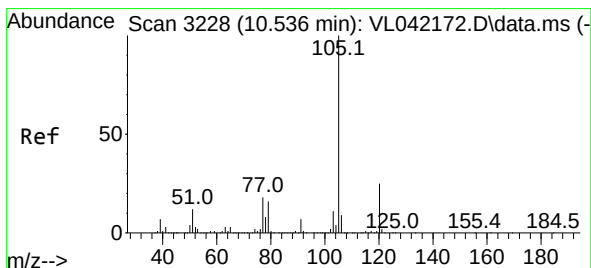
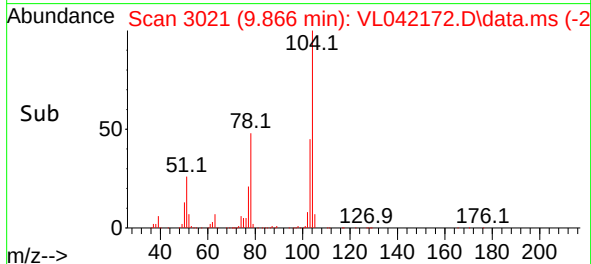
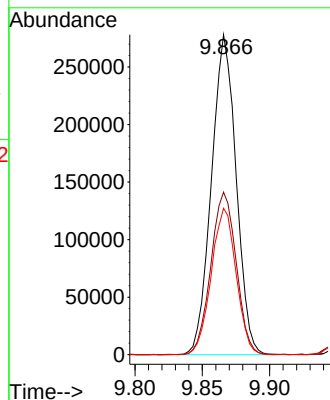
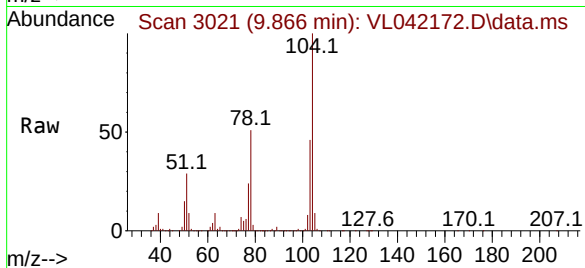




#61  
Styrene  
Concen: 9.706 ppbv  
RT: 9.866 min Scan# 3021  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

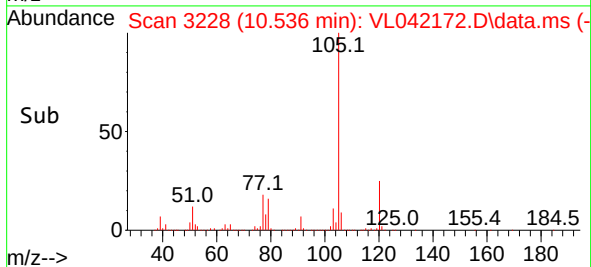
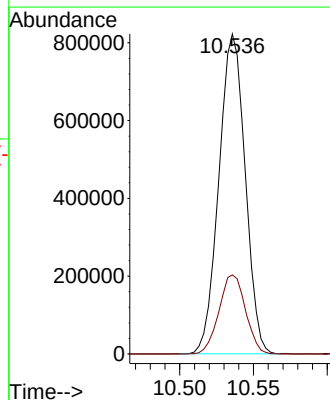
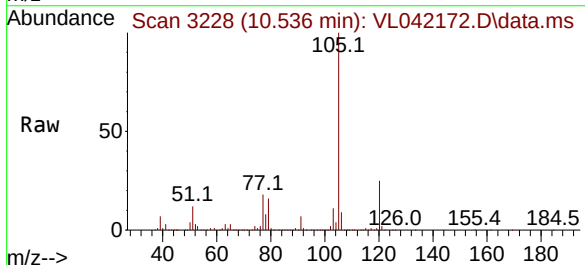
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MSVOA\_1  
ClientSampleId :  
VSTDICCC010

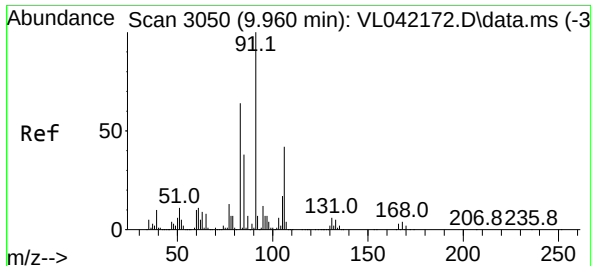
Tgt Ion:104 Resp: 354697  
Ion Ratio Lower Upper  
104 100  
78 52.2 41.8 62.6  
103 46.2 37.0 55.4



#62  
Isopropylbenzene  
Concen: 9.227 ppbv  
RT: 10.536 min Scan# 3228  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 1019255  
Ion Ratio Lower Upper  
105 100  
120 24.9 19.9 29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 9.210 ppbv

RT: 9.960 min Scan# 3050

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICCC010

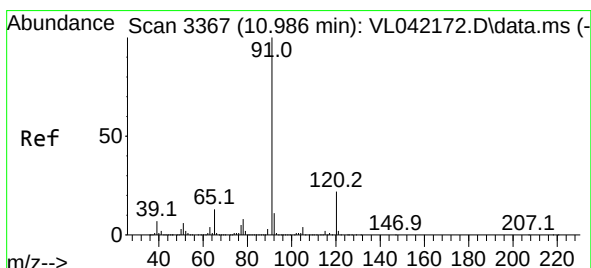
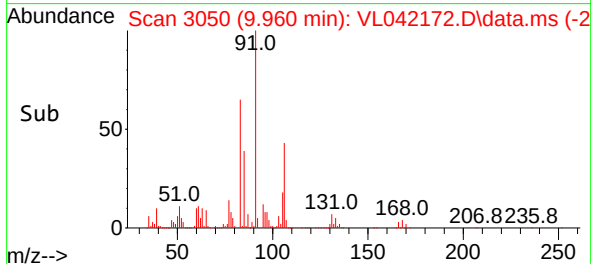
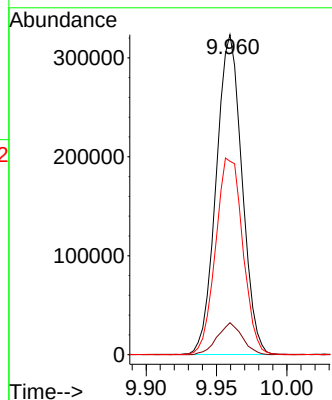
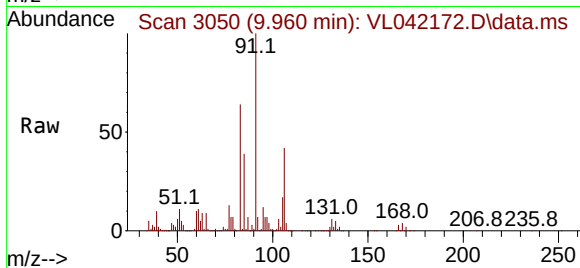
Tgt Ion: 83 Resp: 413392

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.4

85 65.0 32.5 97.5



#64

n-propylbenzene

Concen: 9.122 ppbv

RT: 10.986 min Scan# 3367

Delta R.T. 0.000 min

Lab File: VL042172.D

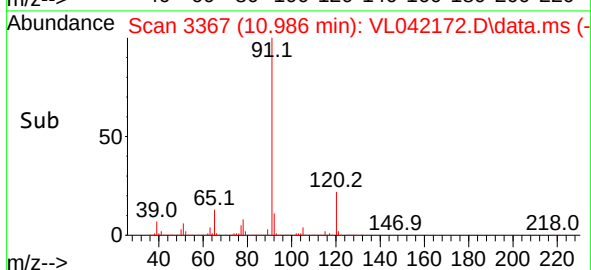
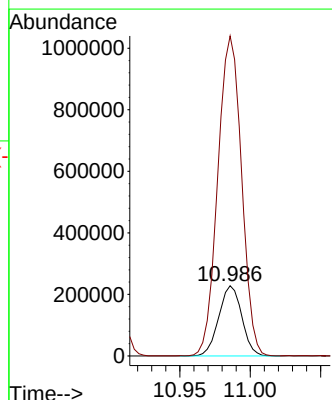
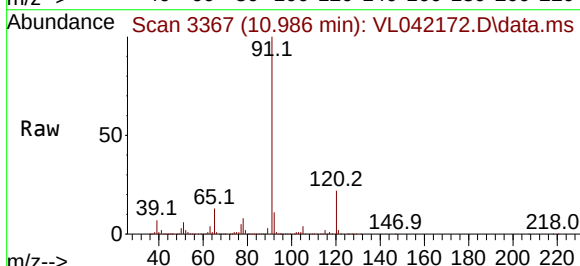
Acq: 27 Mar 2025 08:26

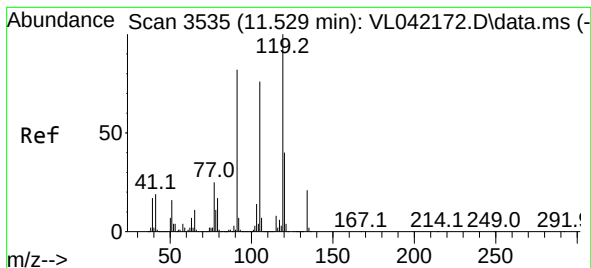
Tgt Ion: 120 Resp: 259405

Ion Ratio Lower Upper

120 100

91 471.1 376.9 565.3

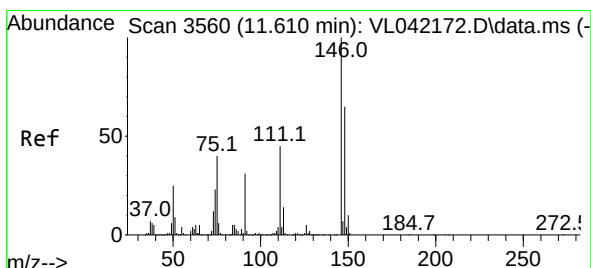
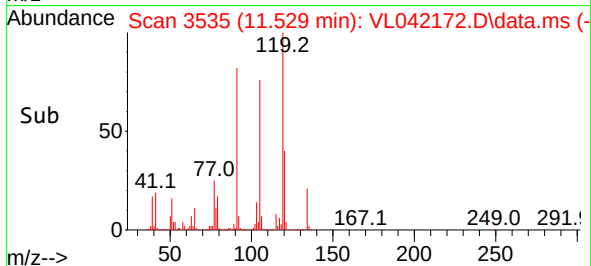
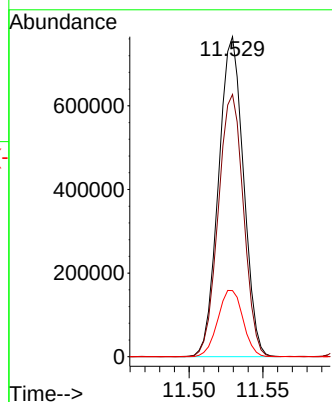
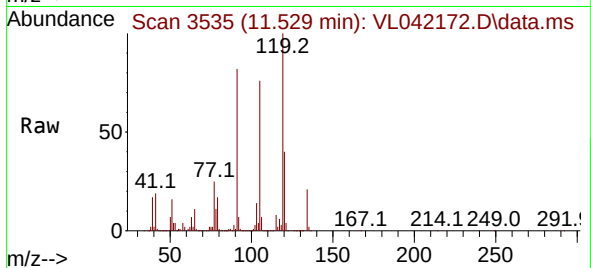




#65  
tert-Butylbenzene  
Concen: 8.828 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

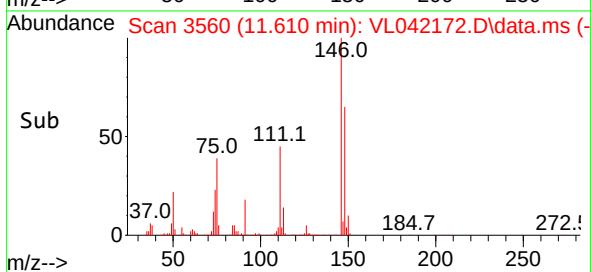
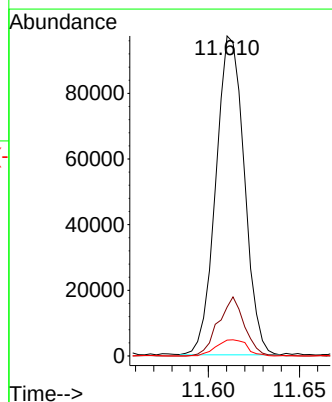
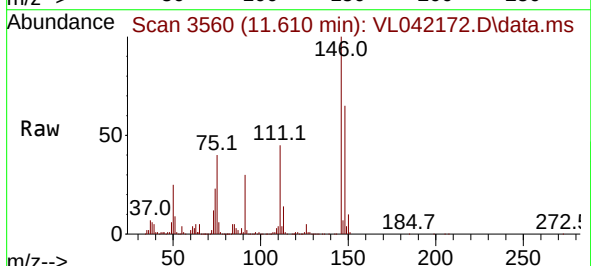
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MSVOA\_1  
ClientSampleId :  
VSTDICCC010

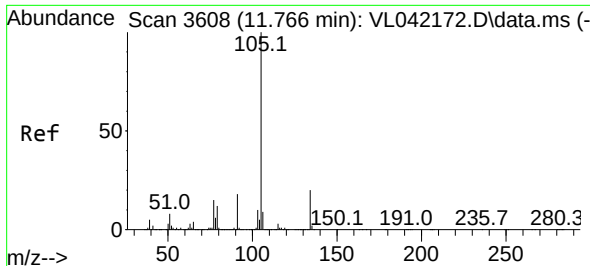
Tgt Ion:119 Resp: 901951  
Ion Ratio Lower Upper  
119 100  
91 82.5 66.0 99.0  
134 20.9 16.7 25.1



#66  
Benzyl Chloride  
Concen: 9.724 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 105411  
Ion Ratio Lower Upper  
91 100  
126 17.2 13.8 20.6  
128 5.6 4.5 6.7

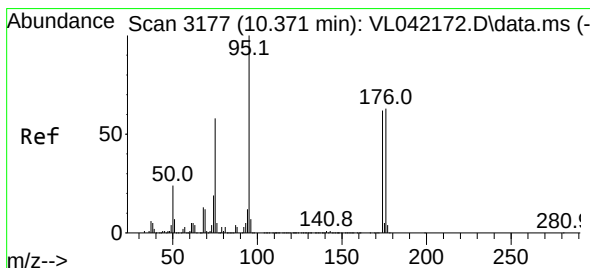
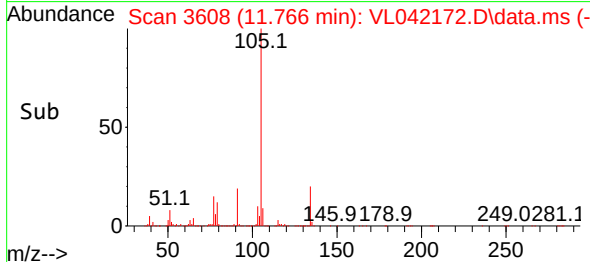
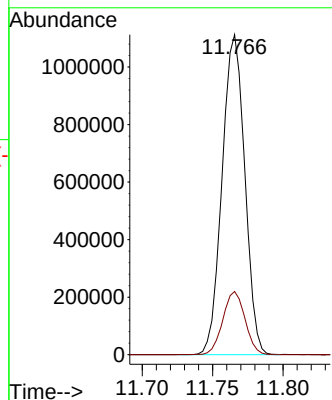
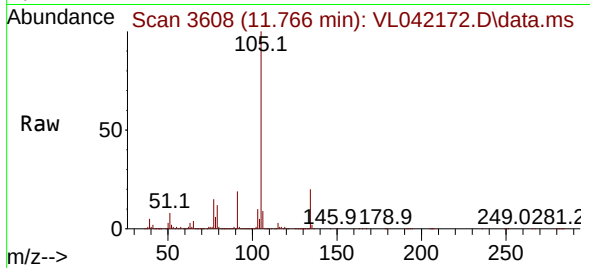




#67  
 sec-Butylbenzene  
 Concen: 8.796 ppbv  
 RT: 11.766 min Scan# 3608  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

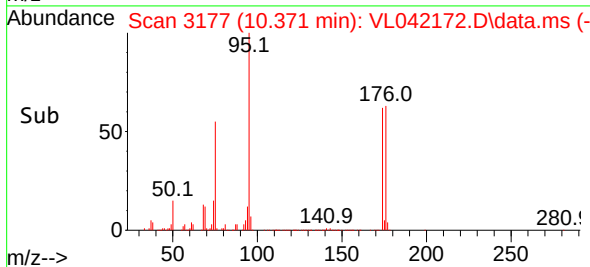
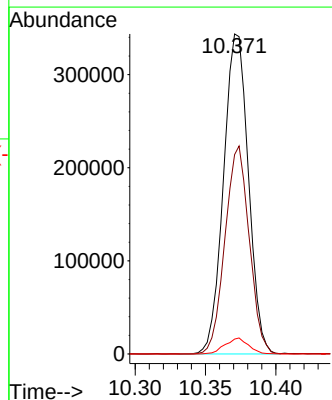
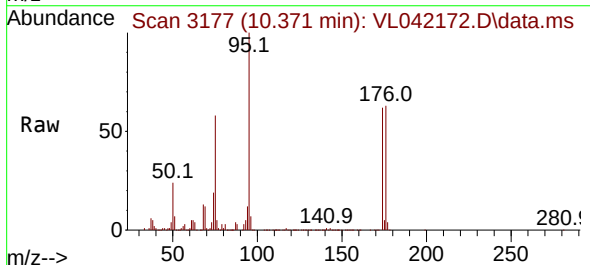
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

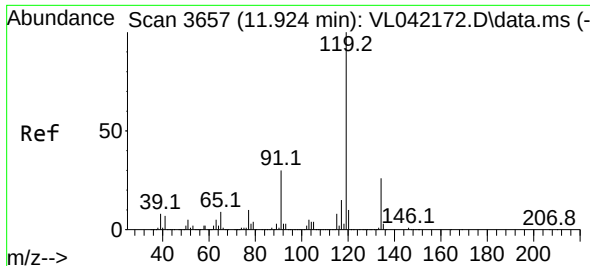
Tgt Ion:105 Resp: 1249106  
 Ion Ratio Lower Upper  
 105 100  
 134 19.4 15.5 23.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.901 ppbv  
 RT: 10.371 min Scan# 3177  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

Tgt Ion: 95 Resp: 422410  
 Ion Ratio Lower Upper  
 95 100  
 174 63.3 50.6 76.0  
 175 4.7 3.8 5.6

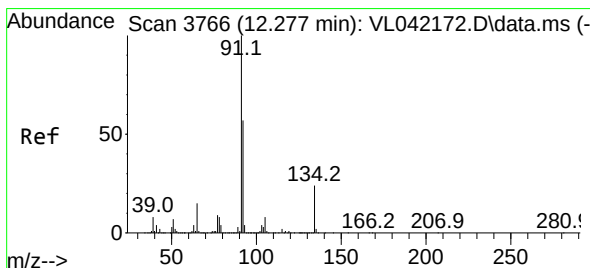
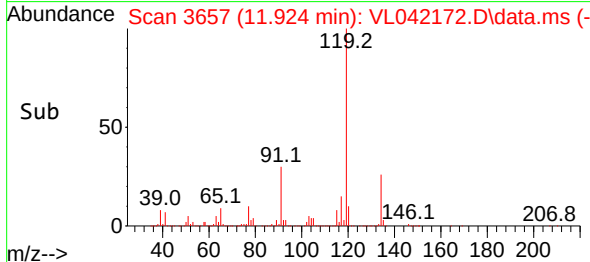
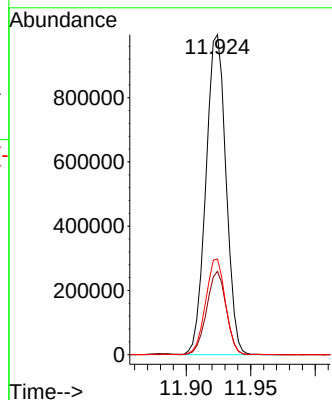
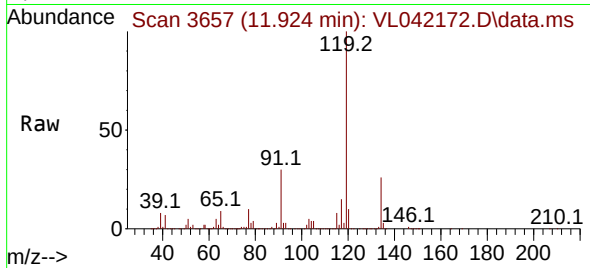




#69  
 p-Isopropyltoluene  
 Concen: 8.830 ppbv  
 RT: 11.924 min Scan# 30  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

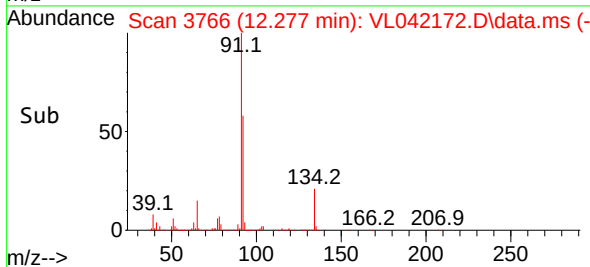
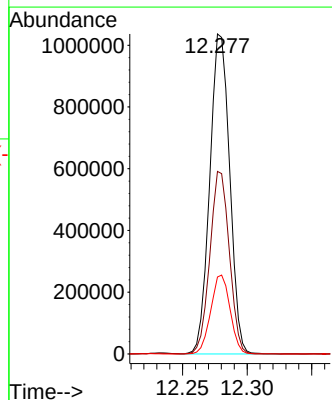
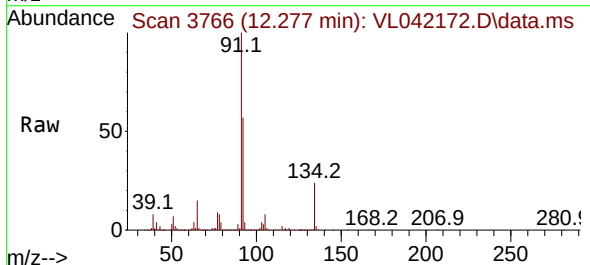
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

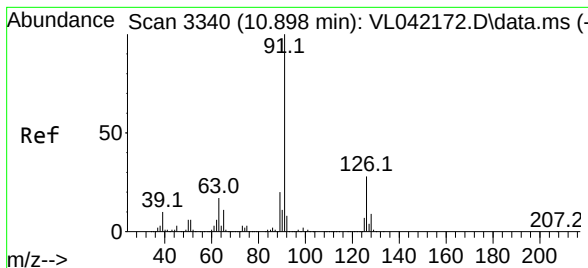
Tgt Ion:119 Resp: 1079675  
 Ion Ratio Lower Upper  
 119 100  
 134 25.5 20.4 30.6  
 91 29.6 23.7 35.5



#70  
 n-Butylbenzene  
 Concen: 8.879 ppbv  
 RT: 12.277 min Scan# 3766  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 1110351  
 Ion Ratio Lower Upper  
 91 100  
 92 56.1 44.9 67.3  
 134 24.0 19.2 28.8

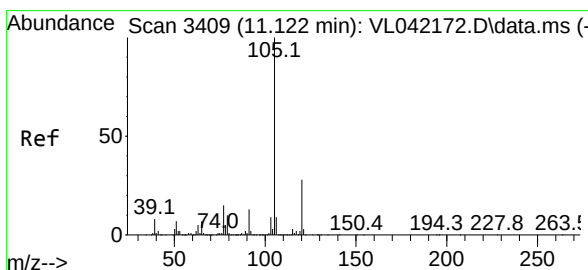
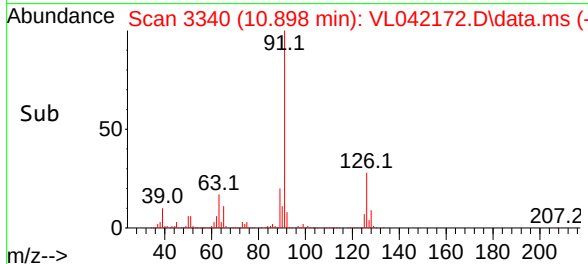
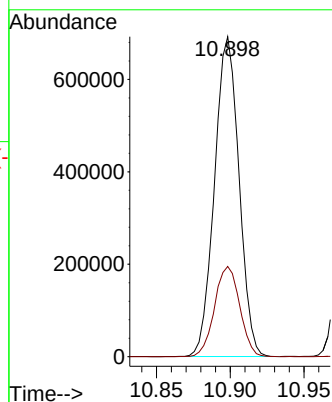
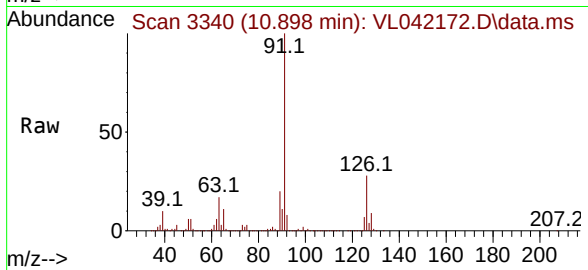




#71  
2-Chlorotoluene  
Concen: 9.320 ppbv  
RT: 10.898 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

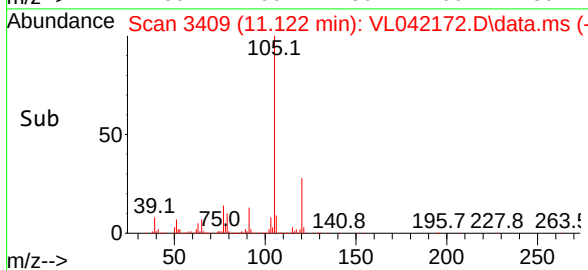
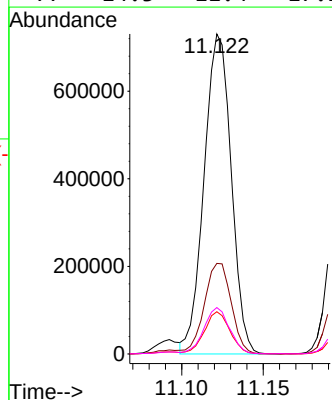
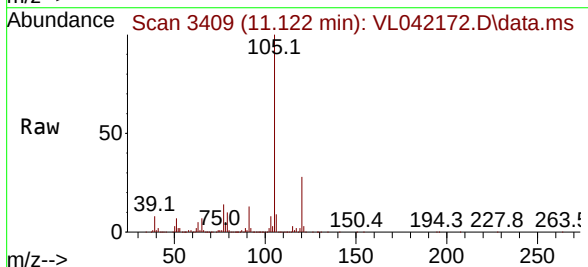
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

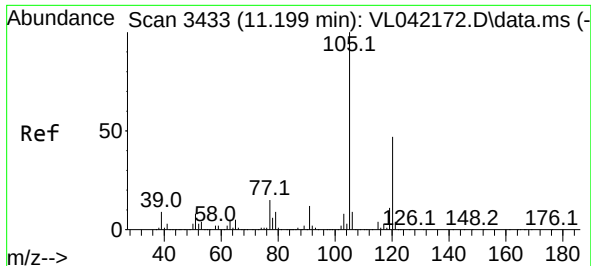
Tgt Ion: 91 Resp: 799102  
Ion Ratio Lower Upper  
91 100  
126 29.0 11.6 46.4



#72  
4-Ethyltoluene  
Concen: 9.200 ppbv  
RT: 11.122 min Scan# 3409  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion: 105 Resp: 846232  
Ion Ratio Lower Upper  
105 100  
120 29.2 23.4 35.0  
91 12.9 10.3 15.5  
77 14.3 11.4 17.2

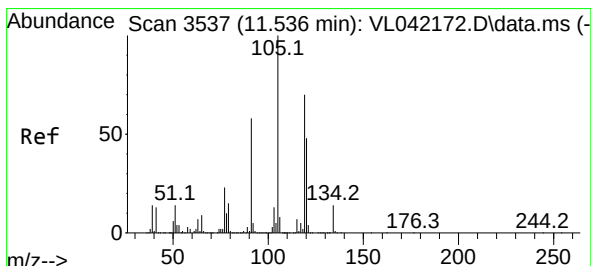
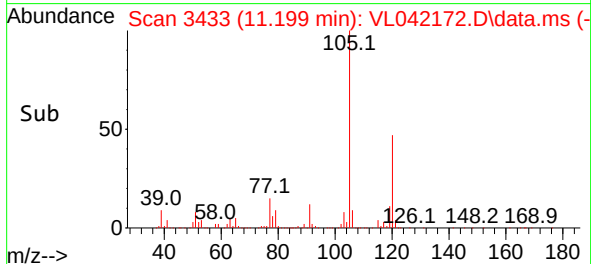
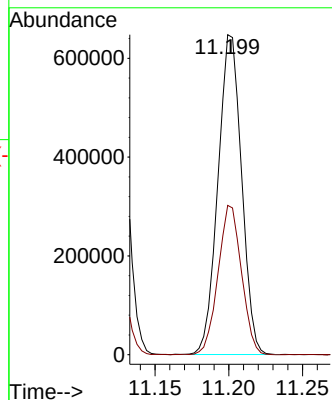
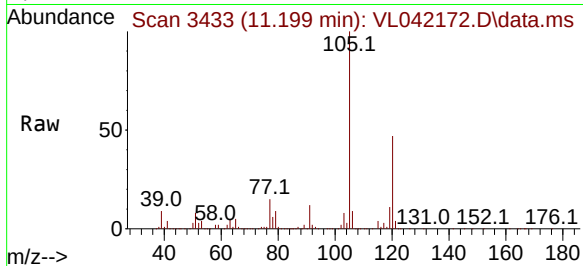




#73  
 1,3,5-Trimethylbenzene  
 Concen: 8.970 ppbv  
 RT: 11.199 min Scan# 3433  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

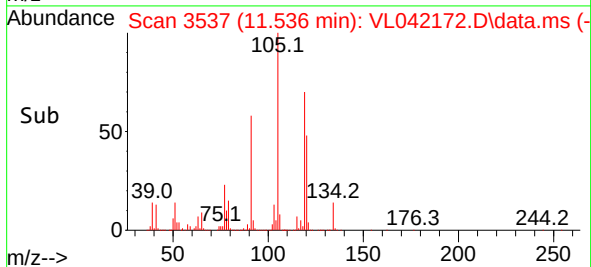
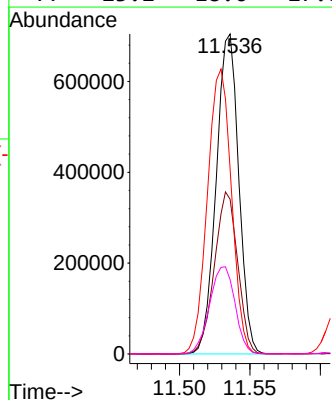
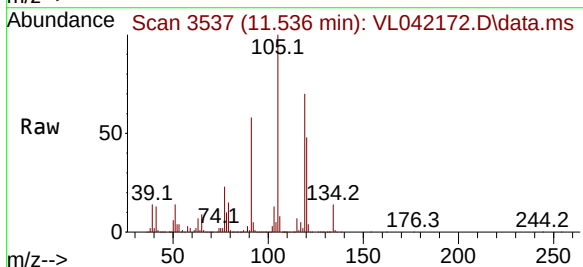
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion:105 Resp: 720566  
 Ion Ratio Lower Upper  
 105 100  
 120 46.7 37.4 56.0

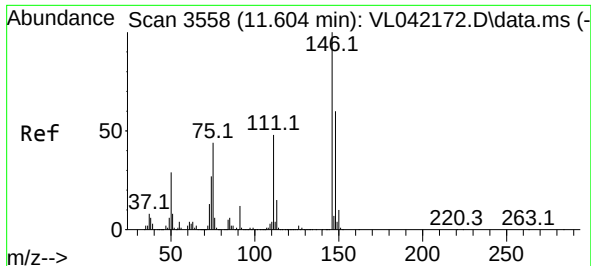


#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.480 ppbv  
 RT: 11.536 min Scan# 3537  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 784745  
 Ion Ratio Lower Upper  
 105 100  
 120 48.3 38.6 58.0  
 91 57.7 46.2 69.2  
 77 23.2 18.6 27.8



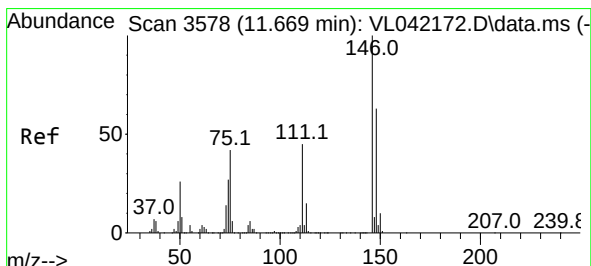
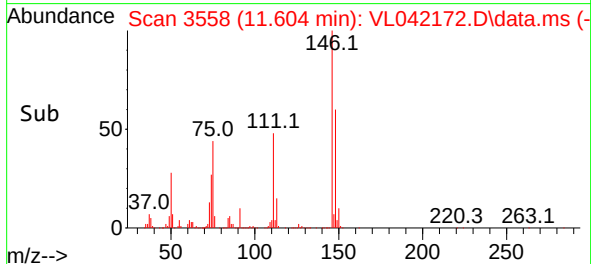
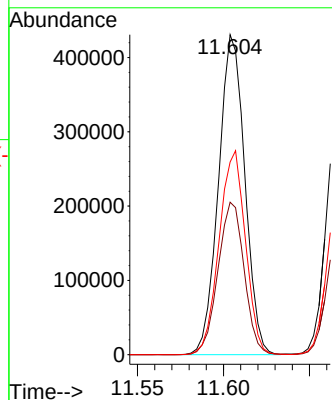
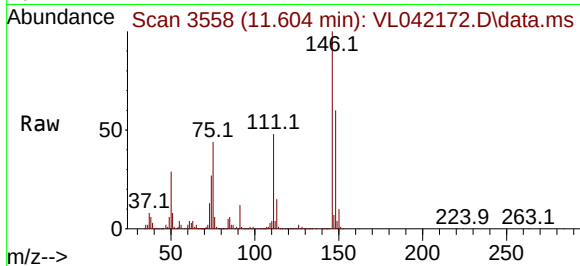




#75  
1,3-Dichlorobenzene  
Concen: 9.028 ppbv  
RT: 11.604 min Scan# 3558  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

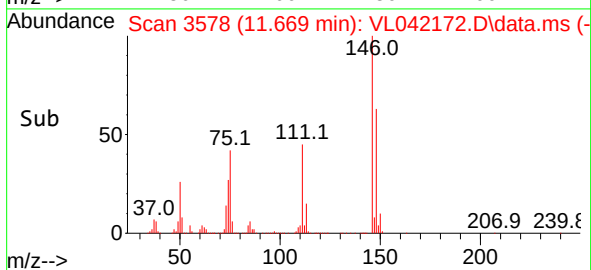
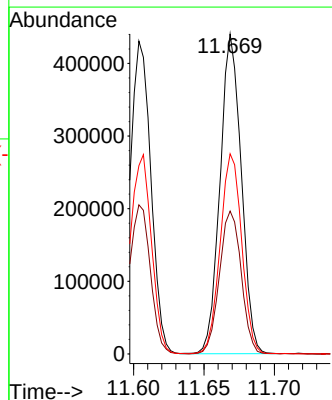
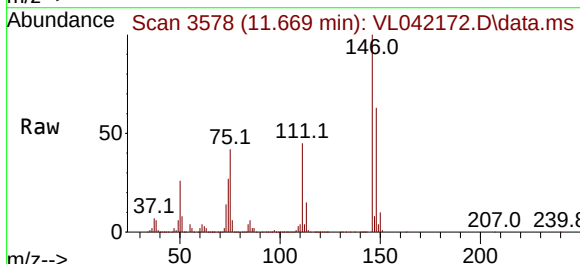
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

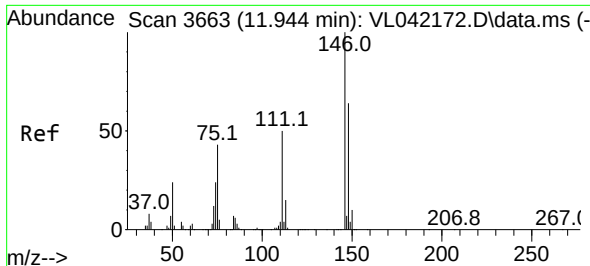
Tgt Ion:146 Resp: 458226  
Ion Ratio Lower Upper  
146 100  
111 47.5 23.8 71.2  
148 63.9 31.9 95.9



#76  
1,4-Dichlorobenzene  
Concen: 9.134 ppbv  
RT: 11.669 min Scan# 3578  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion:146 Resp: 461371  
Ion Ratio Lower Upper  
146 100  
111 46.0 23.0 69.0  
148 63.8 31.9 95.7

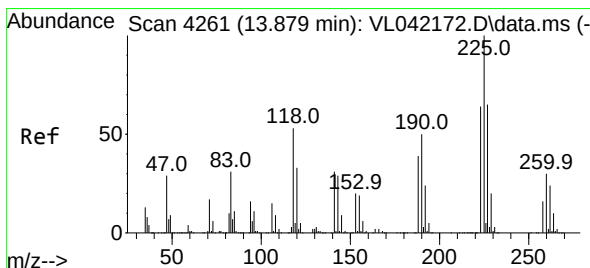
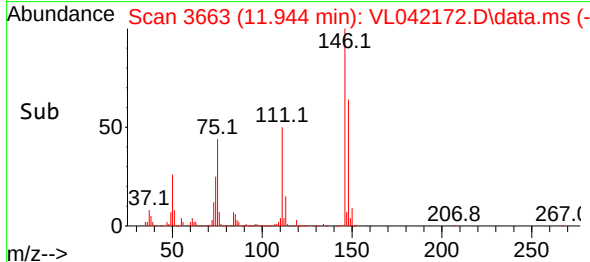
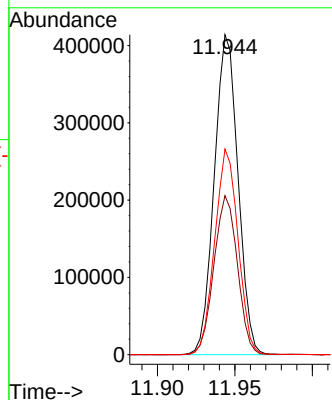
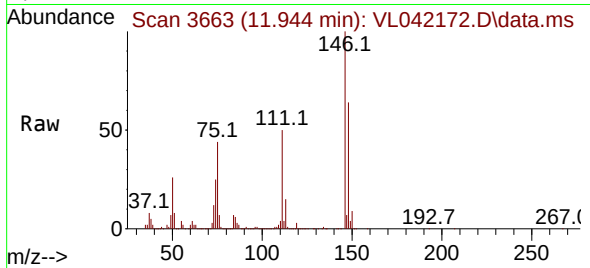




#77  
1,2-Dichlorobenzene  
Concen: 8.933 ppbv  
RT: 11.944 min Scan# 3663  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

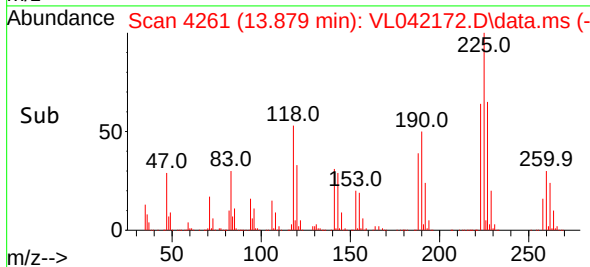
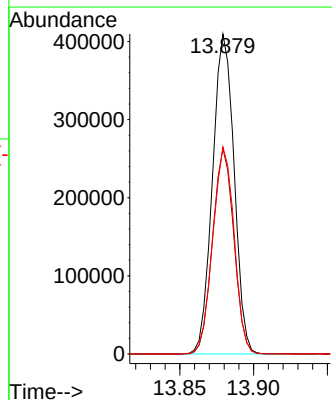
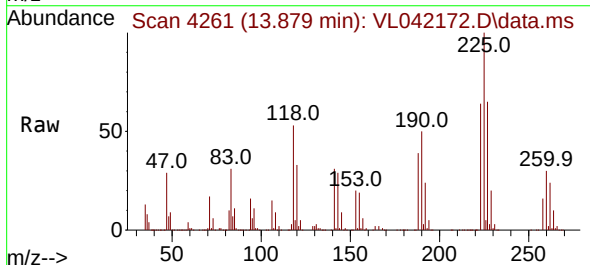
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

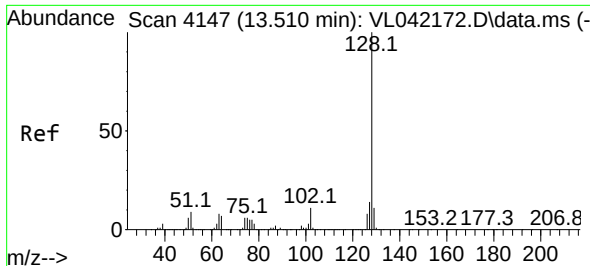
Tgt Ion:146 Resp: 441473  
Ion Ratio Lower Upper  
146 100  
111 49.5 24.8 74.3  
148 63.2 31.6 94.8



#78  
Hexachloro-1,3-Butadiene  
Concen: 8.284 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

Tgt Ion:225 Resp: 416735  
Ion Ratio Lower Upper  
225 100  
223 63.3 50.6 76.0  
227 64.0 51.2 76.8

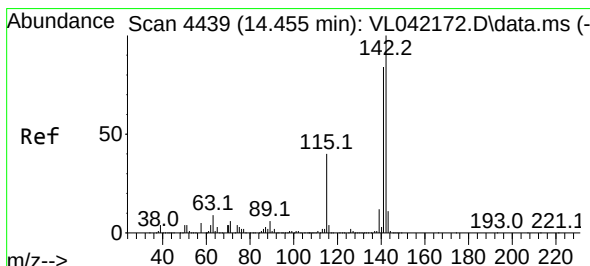
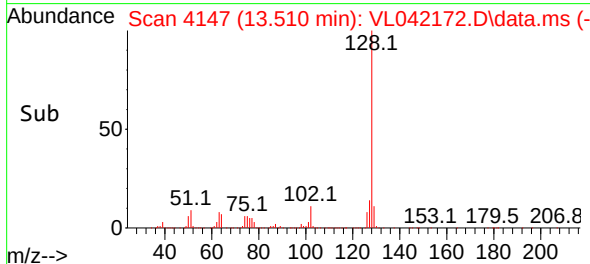
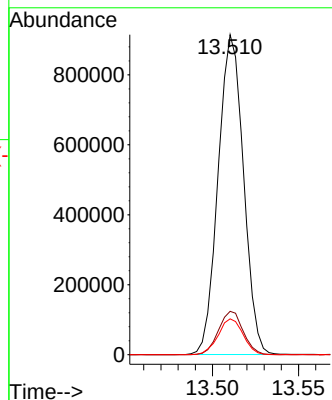
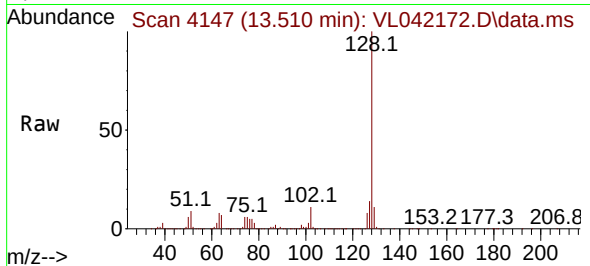




#79  
Naphthalene  
Concen: 9.271 ppbv  
RT: 13.510 min Scan# 4147  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

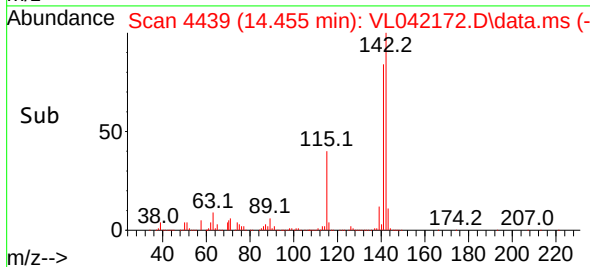
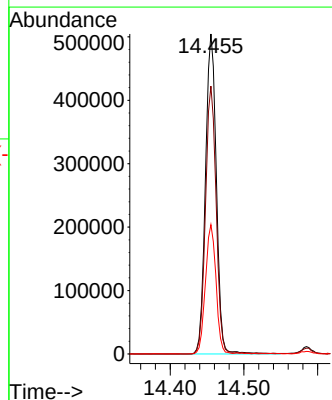
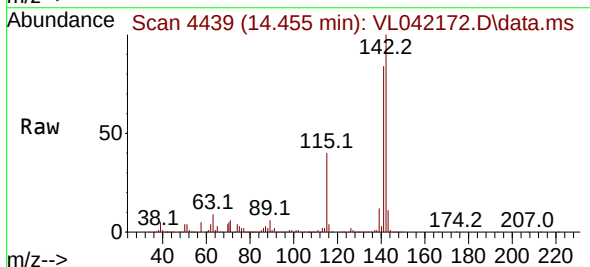
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

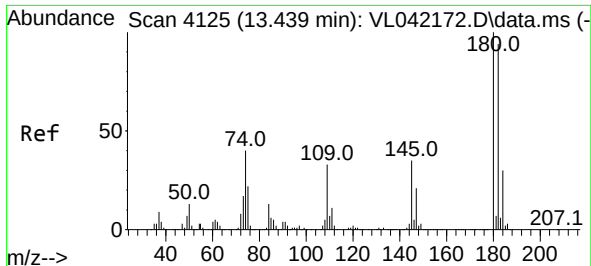
Tgt Ion:128 Resp: 938470  
Ion Ratio Lower Upper  
128 100  
127 13.5 10.8 16.2  
129 11.2 9.0 13.4



#80  
Naphthalene,2-methyl-  
Concen: 10.436 ppbv  
RT: 14.455 min Scan# 4439  
Delta R.T. 0.000 min  
Lab File: VL042172.D  
Acq: 27 Mar 2025 08:26

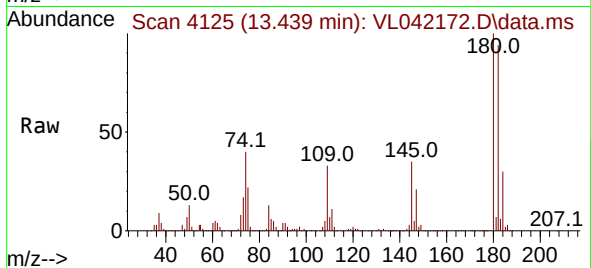
Tgt Ion:142 Resp: 514394  
Ion Ratio Lower Upper  
142 100  
141 82.9 66.3 99.5  
115 39.5 31.6 47.4



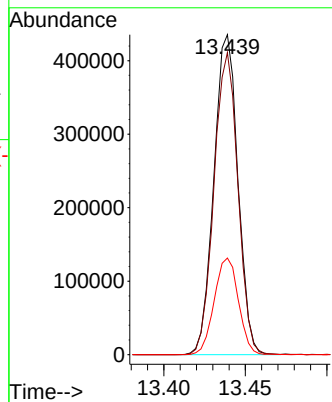
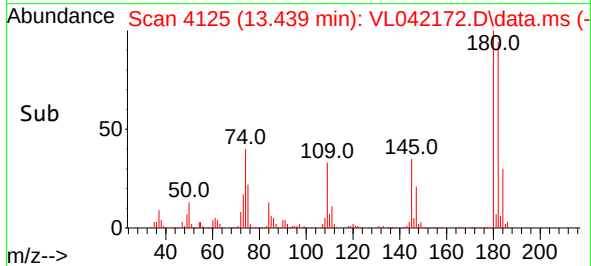


#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.561 ppbv  
 RT: 13.439 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042172.D  
 Acq: 27 Mar 2025 08:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



Tgt Ion:180 Resp: 446420  
 Ion Ratio Lower Upper  
 180 100  
 182 93.9 75.1 112.7  
 184 30.5 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042173.D  
 Acq On : 27 Mar 2025 08:59  
 Operator : SY/MD  
 Sample : VSTDIC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

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 26 06:05:16 2022  
 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  | 1827   | 1.822 | ppbv # | 49     |
| 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  | 14008  | 1.369 | ppbv # | 2      |
| 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

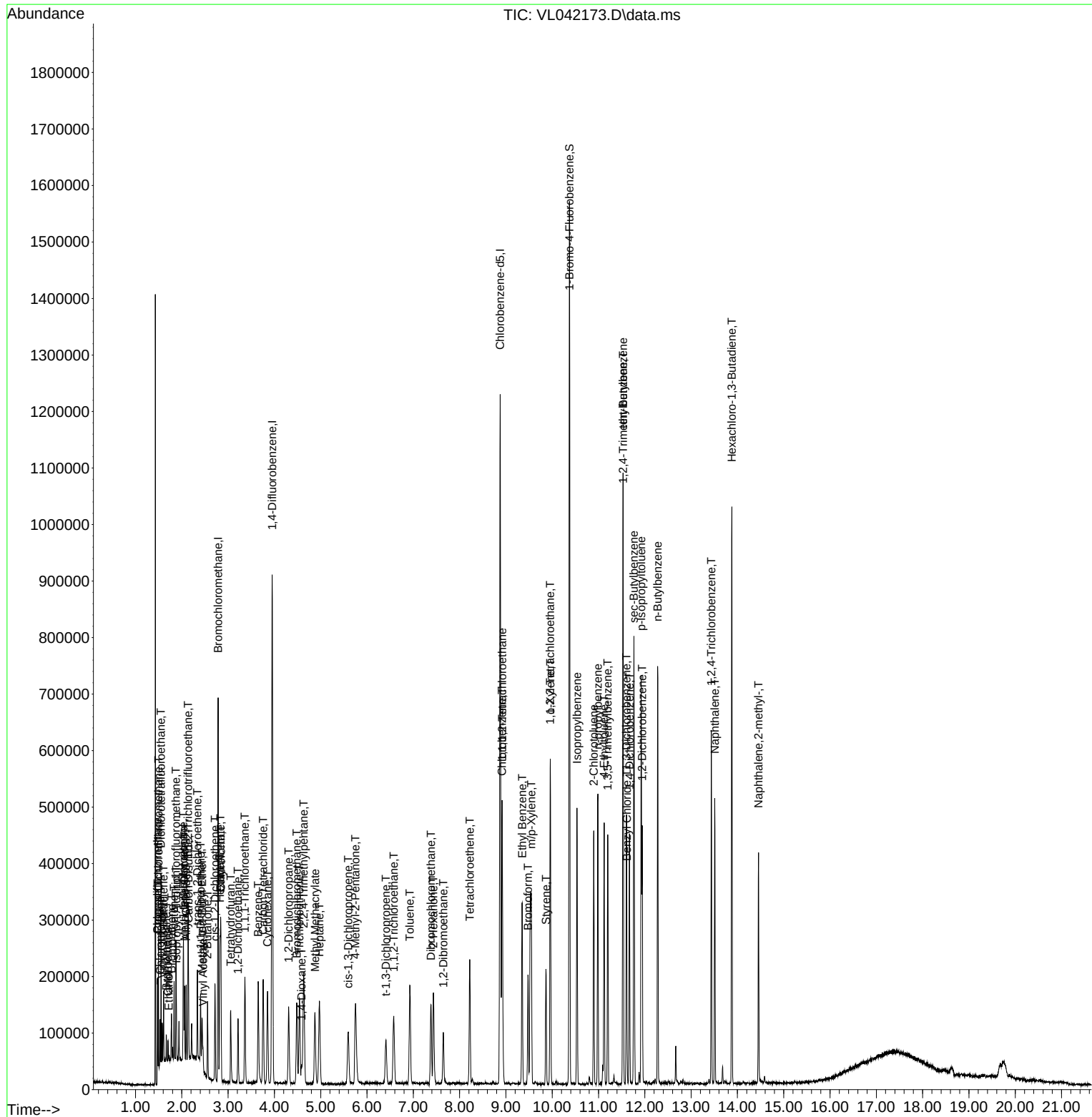
Quant Time: Mar 28 01:32:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 01:31:23 2025  
 Response via : Initial Calibration

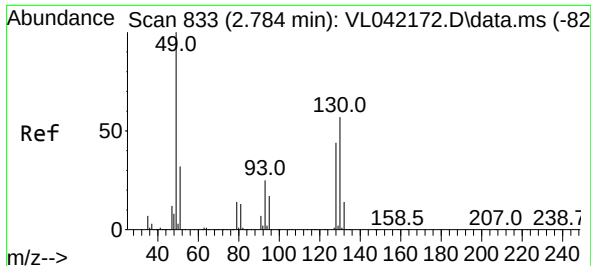
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 61829    | 2.050 | ppbv # | 91       |
| 47) 1,1,2-Trichloroethane     | 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   | 167182   | 2.333 | ppbv # | 31       |
| 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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICC002

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\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration

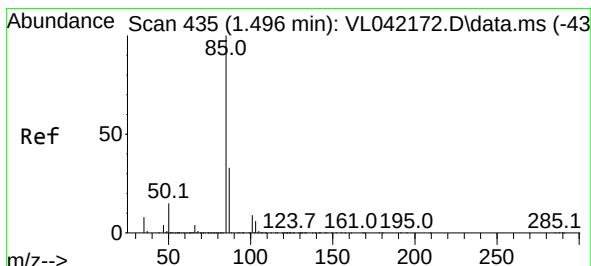
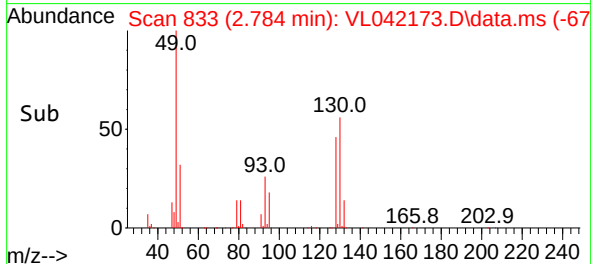
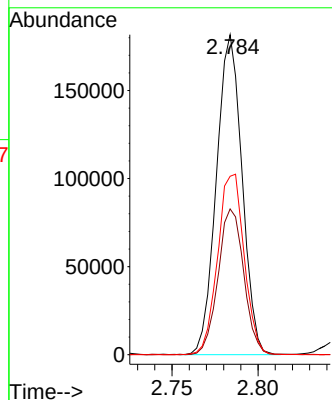
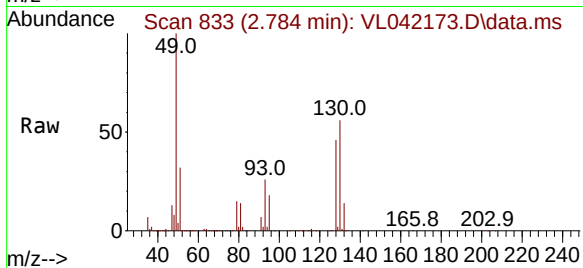




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

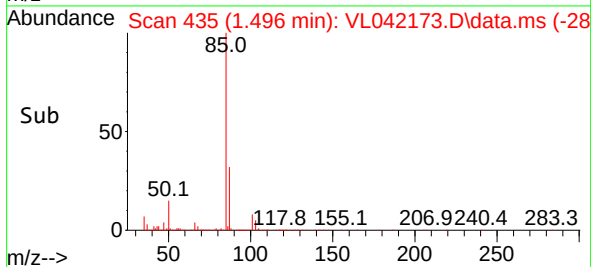
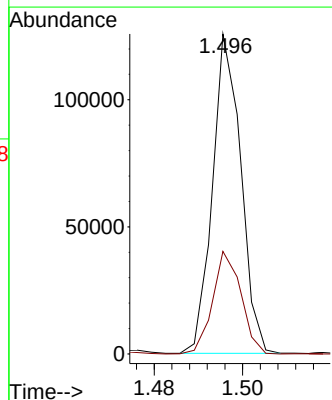
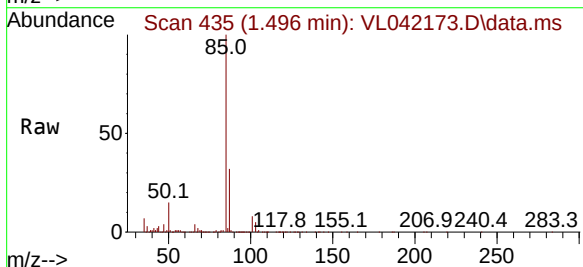
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 49 Resp: 188395  
Ion Ratio Lower Upper  
49 100  
128 45.7 22.9 68.5  
130 58.5 28.8 86.4

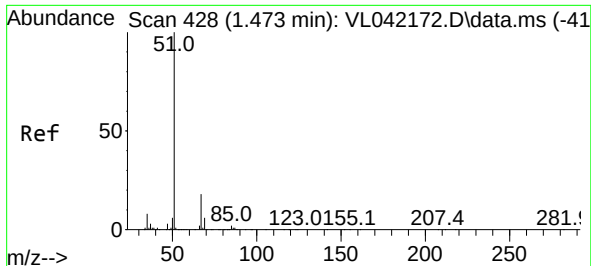


#2  
Dichlorodifluoromethane  
Concen: 2.008 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 85 Resp: 55859  
Ion Ratio Lower Upper  
85 100  
87 32.1 26.1 39.1



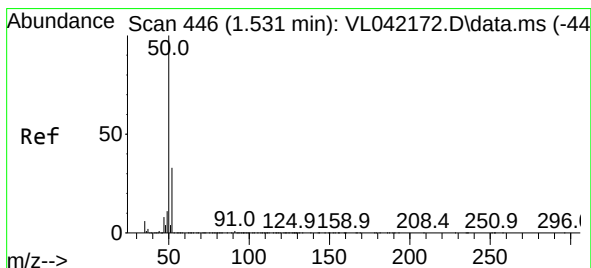
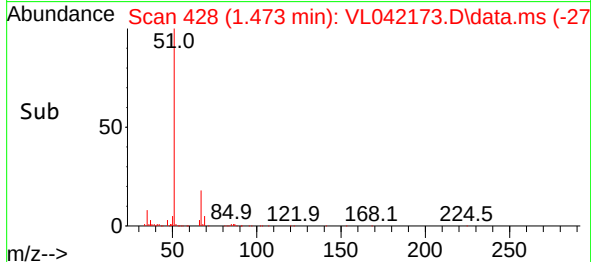
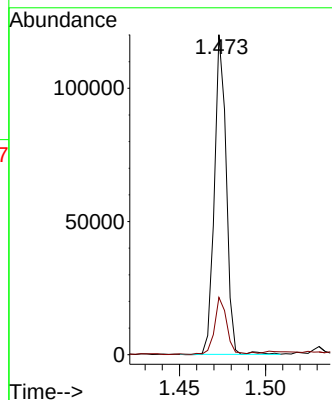
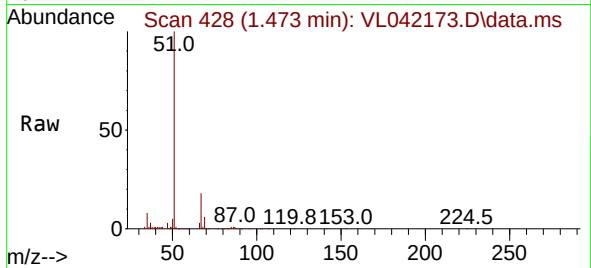




#3  
Chlorodifluoromethane  
Concen: 2.007 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

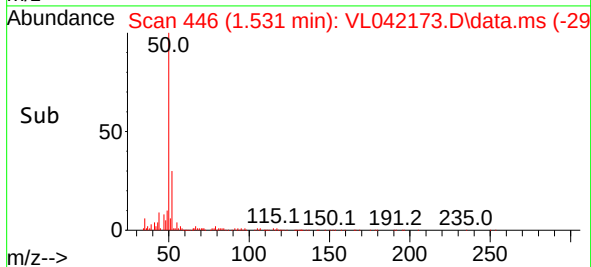
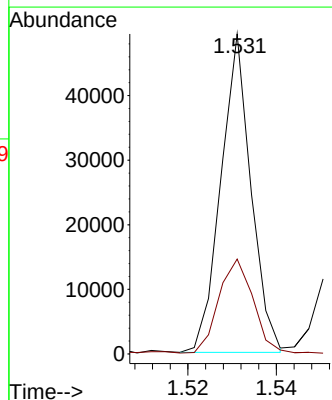
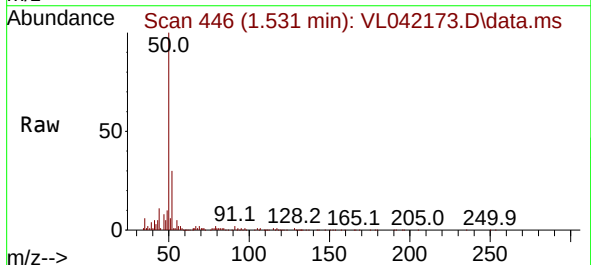
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

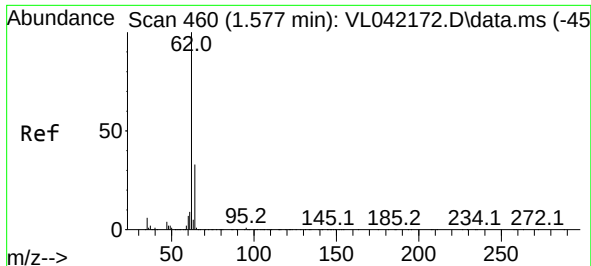
Tgt Ion: 51 Resp: 57045  
Ion Ratio Lower Upper  
51 100  
67 19.4 15.0 22.6



#4  
Chloromethane  
Concen: 2.049 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 50 Resp: 23293  
Ion Ratio Lower Upper  
50 100  
52 29.5 26.1 39.1

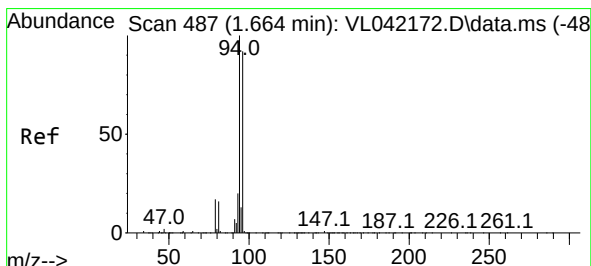
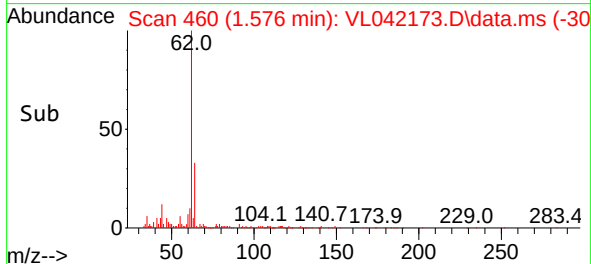
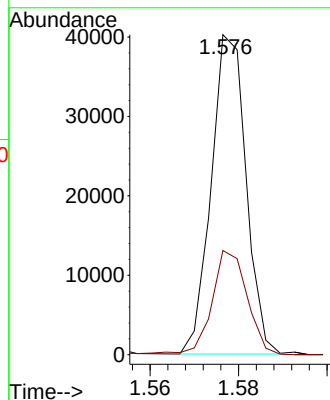
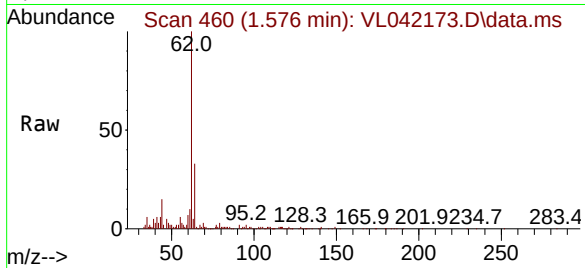




#5  
Vinyl Chloride  
Concen: 1.897 ppbv  
RT: 1.576 min Scan# 460  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

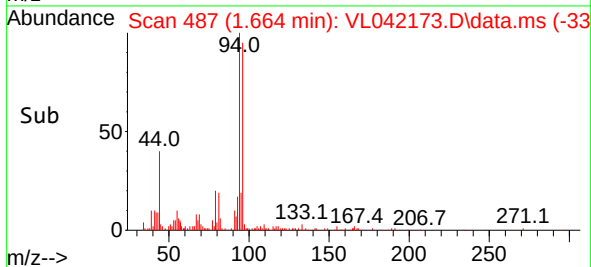
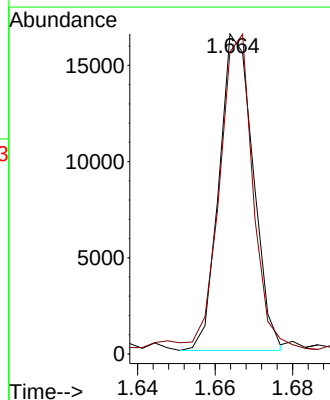
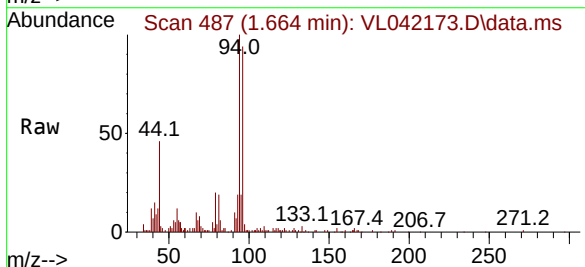
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

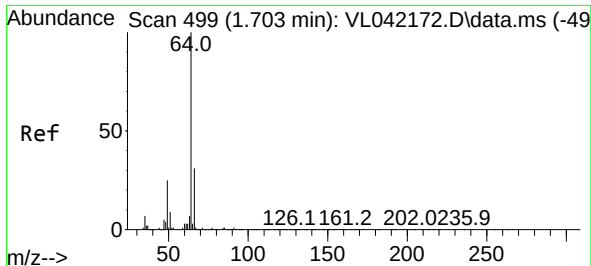
Tgt Ion: 62 Resp: 21989  
Ion Ratio Lower Upper  
62 100  
64 32.5 26.6 40.0



#6  
Bromomethane  
Concen: 1.946 ppbv  
RT: 1.664 min Scan# 487  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 94 Resp: 10027  
Ion Ratio Lower Upper  
94 100  
96 93.6 73.1 109.7

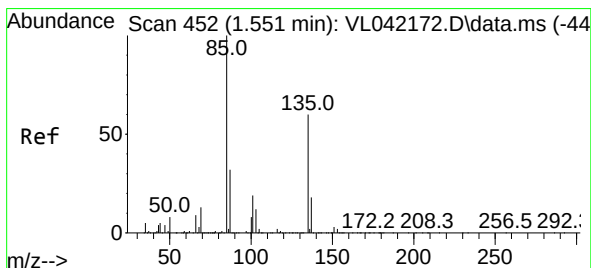
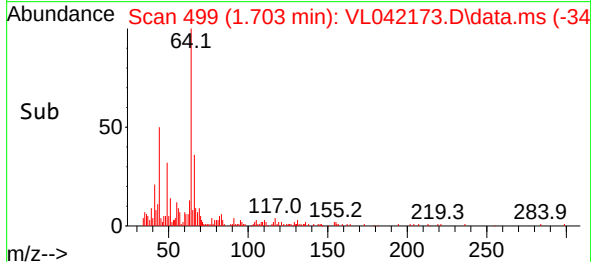
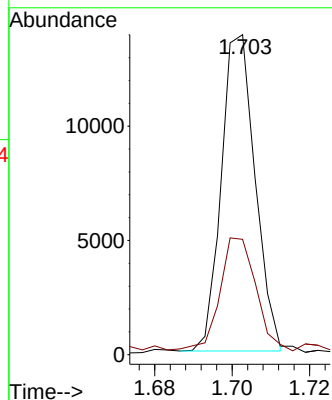
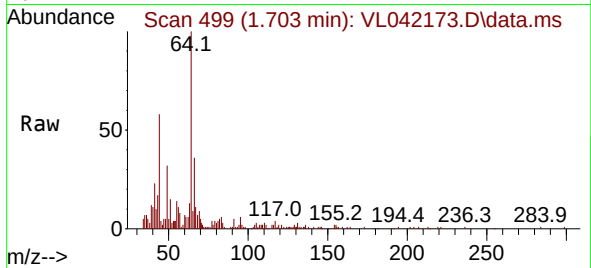




#7  
Chloroethane  
Concen: 1.844 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

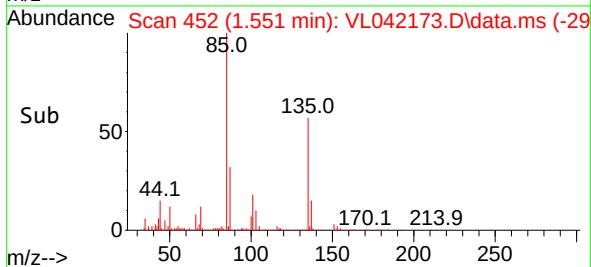
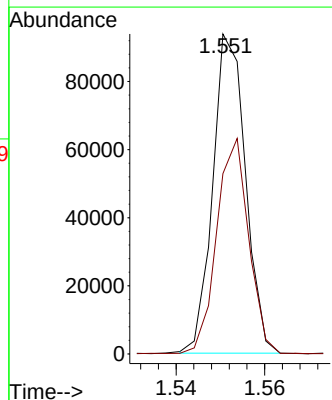
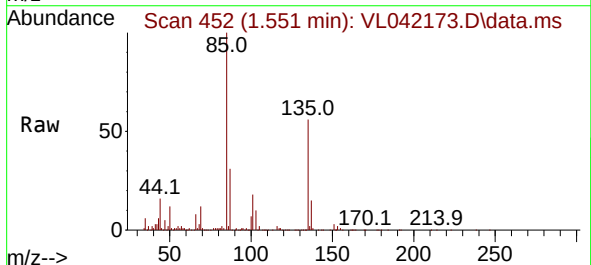
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

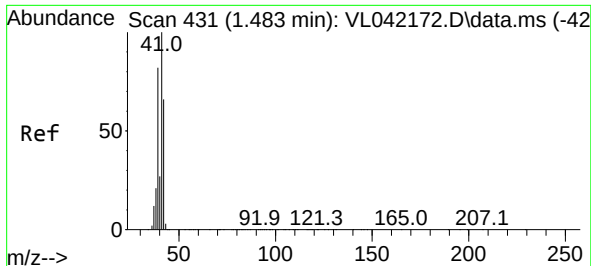
Tgt Ion: 64 Resp: 8413  
Ion Ratio Lower Upper  
64 100  
66 36.1 25.2 37.8



#8  
Dichlorotetrafluoroethane  
Concen: 2.027 ppbv  
RT: 1.551 min Scan# 452  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 85 Resp: 48008  
Ion Ratio Lower Upper  
85 100  
135 66.8 52.4 78.6

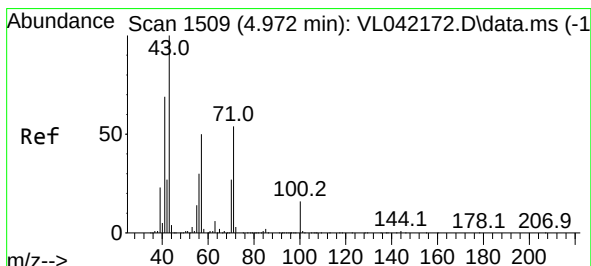
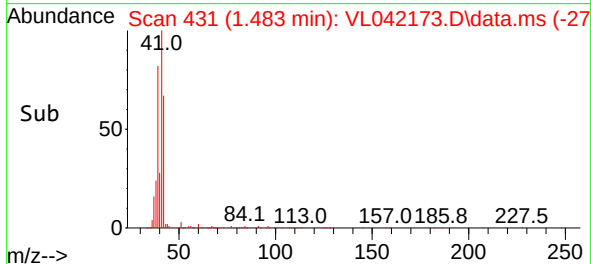
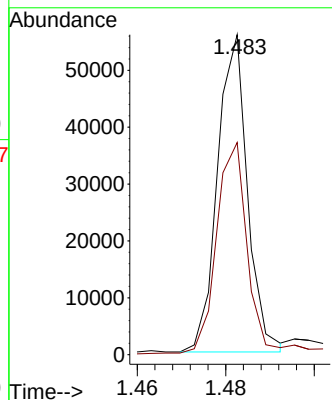
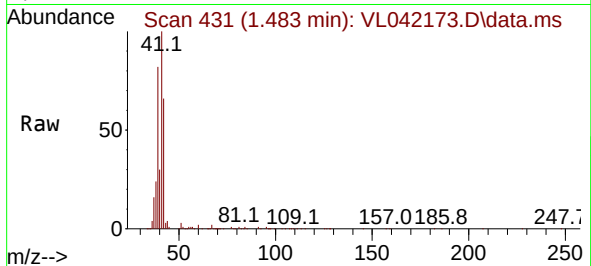




#9  
Propene  
Concen: 2.054 ppbv  
RT: 1.483 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

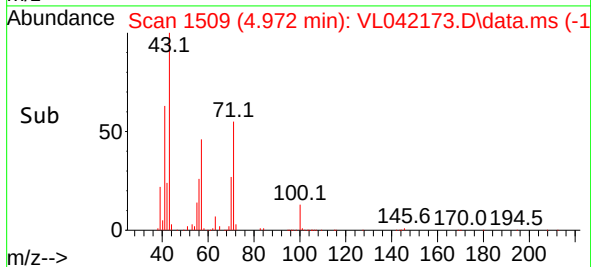
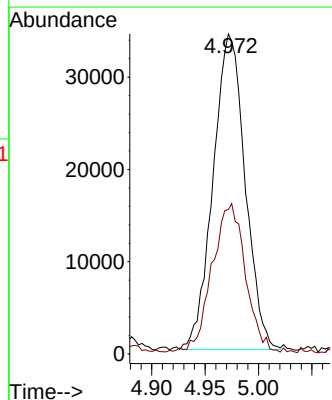
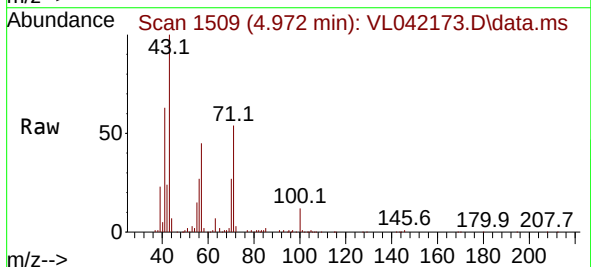
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

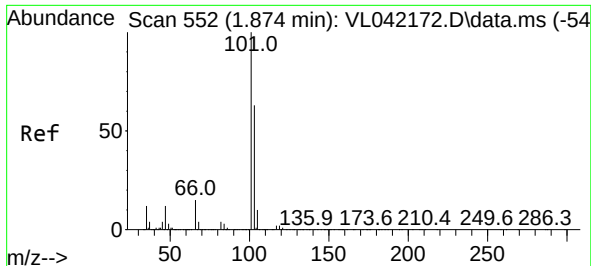
Tgt Ion: 41 Resp: 26295  
Ion Ratio Lower Upper  
41 100  
42 73.9 55.4 83.2



#10  
Heptane  
Concen: 2.063 ppbv  
RT: 4.972 min Scan# 1509  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 71466  
Ion Ratio Lower Upper  
43 100  
57 49.6 39.4 59.2

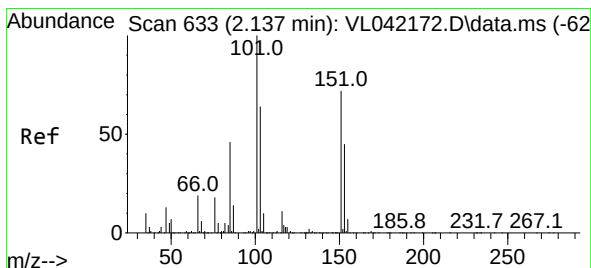
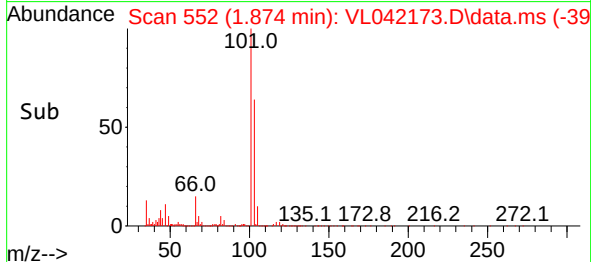
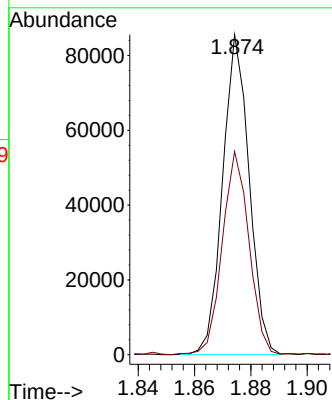
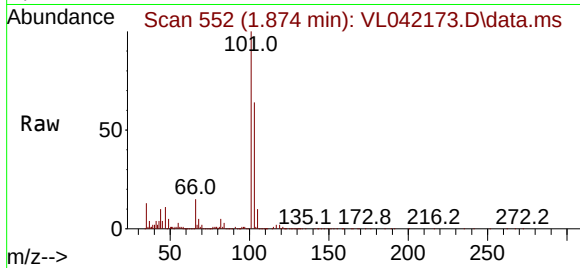




#11  
 Trichlorofluoromethane  
 Concen: 2.060 ppbv  
 RT: 1.874 min Scan# 552  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

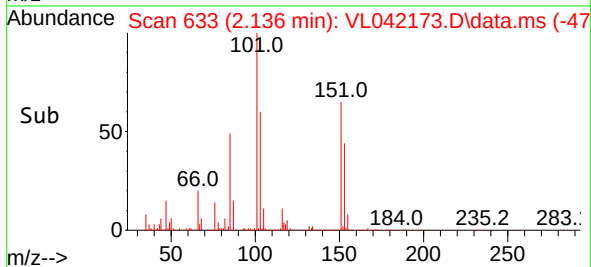
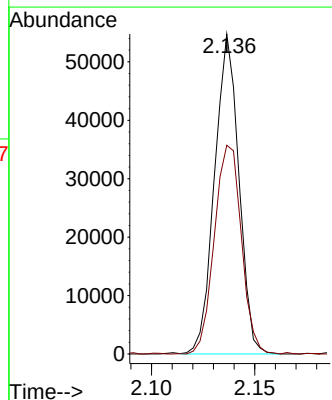
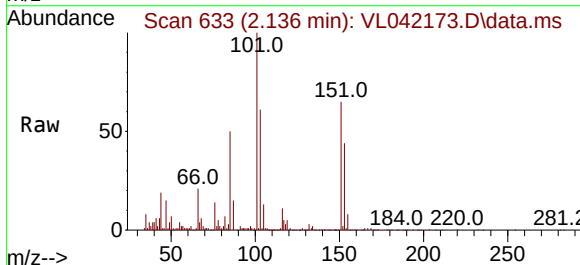
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

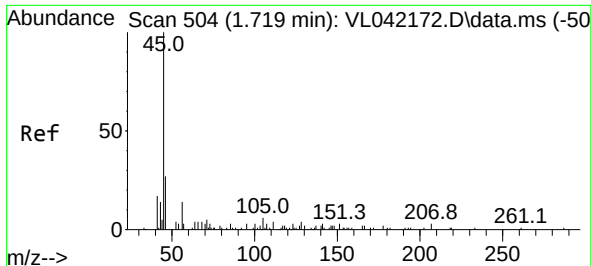
Tgt Ion:101 Resp: 55754  
 Ion Ratio Lower Upper  
 101 100  
 103 63.5 50.2 75.2



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 2.012 ppbv  
 RT: 2.136 min Scan# 633  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Tgt Ion:101 Resp: 44761  
 Ion Ratio Lower Upper  
 101 100  
 151 73.0 57.1 85.7

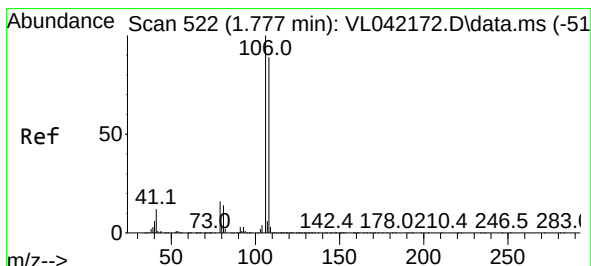
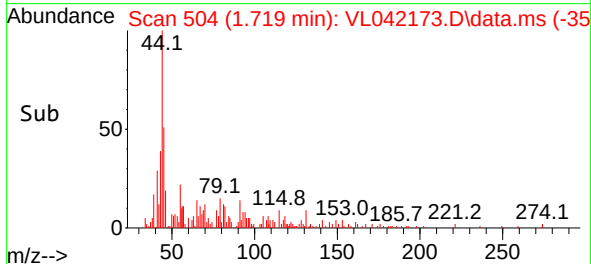
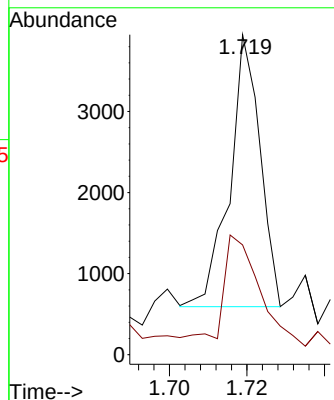
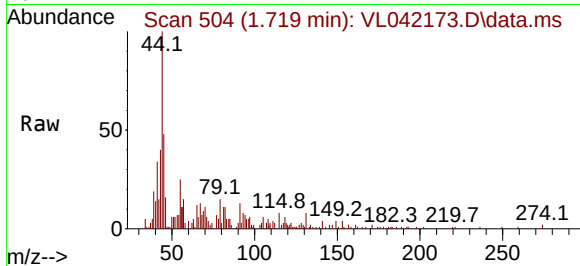




#13  
Ethanol  
Concen: 1.822 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

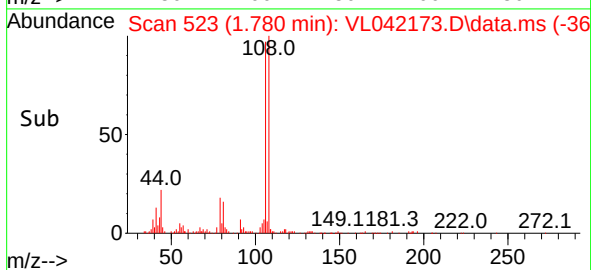
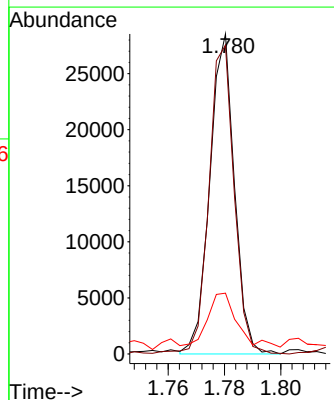
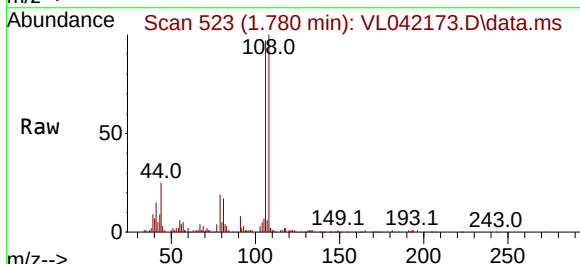
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

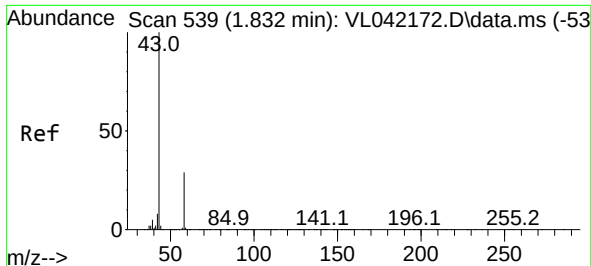
Tgt Ion: 45 Resp: 1827  
Ion Ratio Lower Upper  
45 100  
46 85.6 20.2 80.8#



#14  
Bromoethene  
Concen: 2.033 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. 0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 108 Resp: 17323  
Ion Ratio Lower Upper  
108 100  
106 100.6 86.8 130.2  
79 32.0 15.0 22.6#

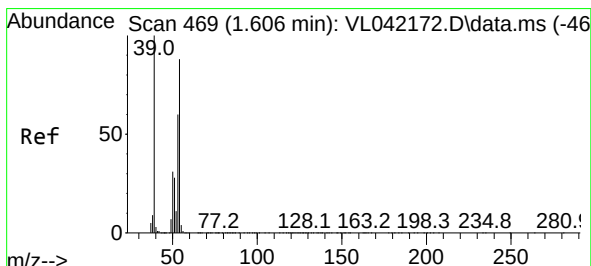
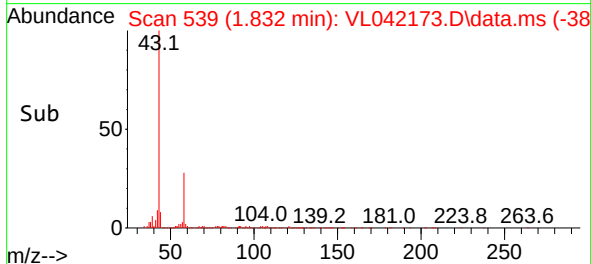
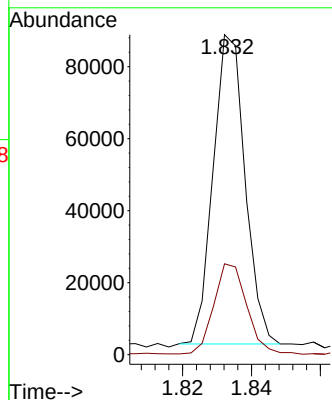
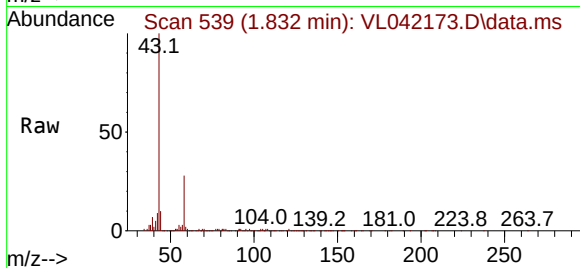




#15  
Acetone  
Concen: 2.101 ppbv  
RT: 1.832 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

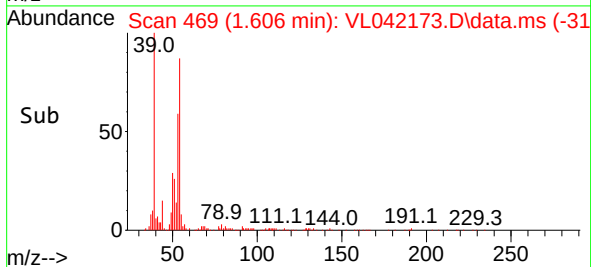
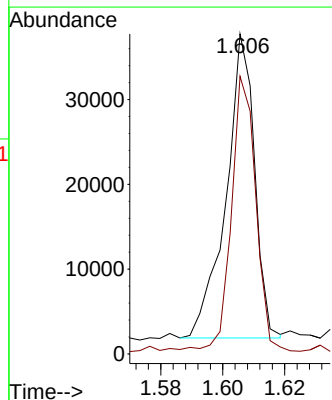
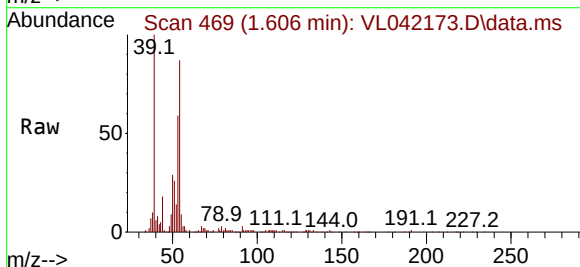
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

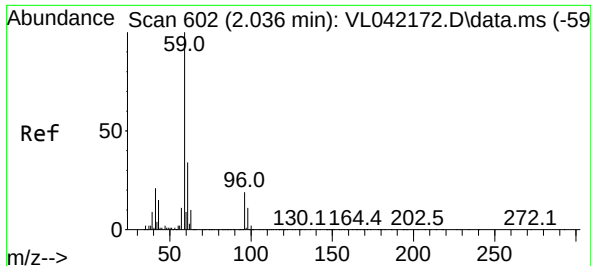
Tgt Ion: 43 Resp: 55365  
Ion Ratio Lower Upper  
43 100  
58 31.8 23.2 34.8



#16  
1,3-Butadiene  
Concen: 1.932 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 39 Resp: 22894  
Ion Ratio Lower Upper  
39 100  
54 79.9 60.7 91.1





#17

tert-Butyl alcohol

Concen: 2.016 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA\_L

ClientSampleId :

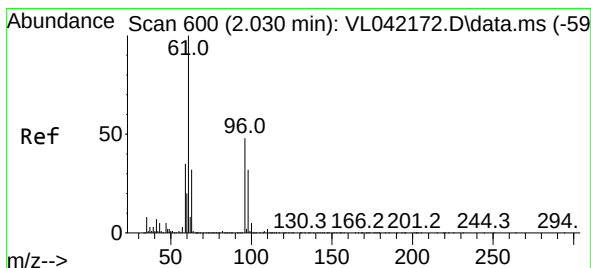
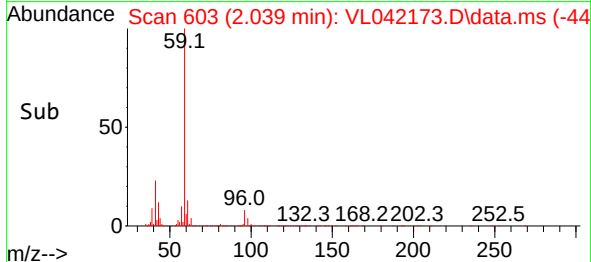
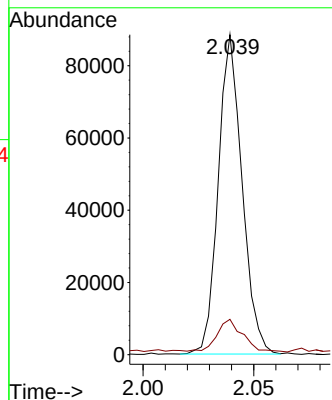
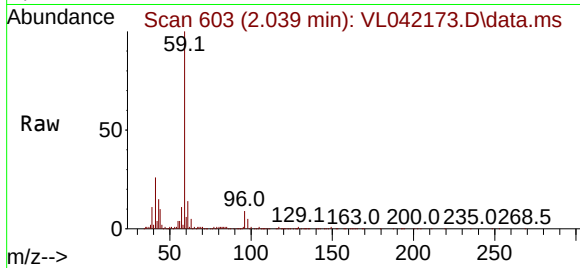
VSTDIC002

Tgt Ion: 59 Resp: 66174

Ion Ratio Lower Upper

59 100

57 11.2 8.9 13.3



#18

1,1-Dichloroethene

Concen: 2.029 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

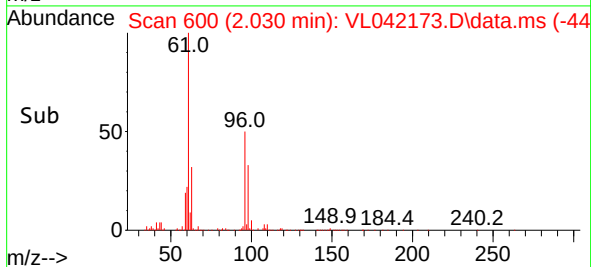
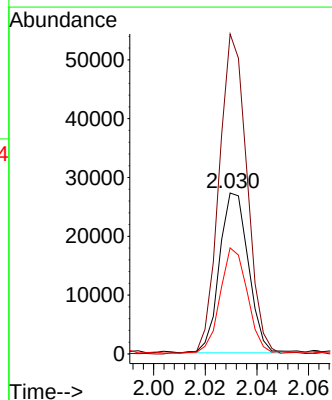
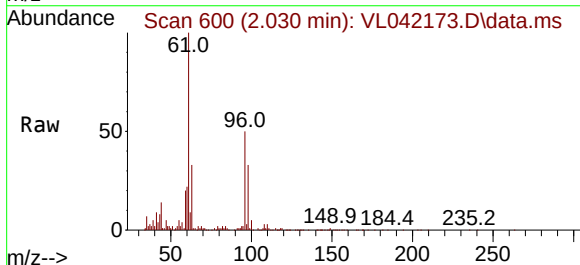
Tgt Ion: 96 Resp: 21103

Ion Ratio Lower Upper

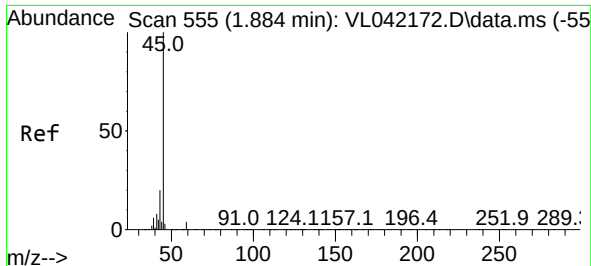
96 100

61 199.8 167.6 251.4

98 66.0 53.5 80.3



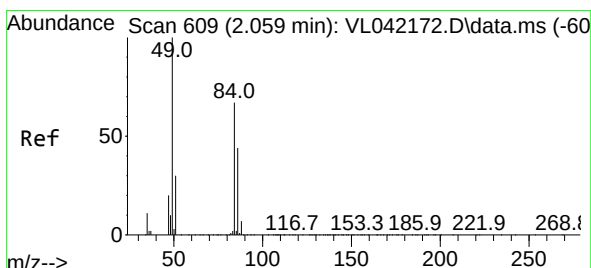
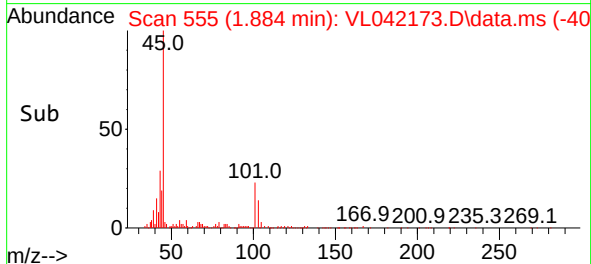
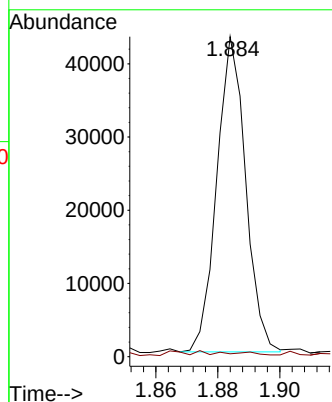
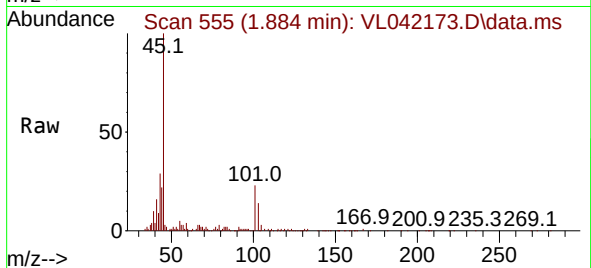




#19  
Isopropyl Alcohol  
Concen: 1.870 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

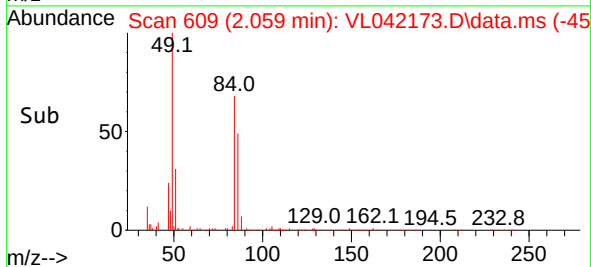
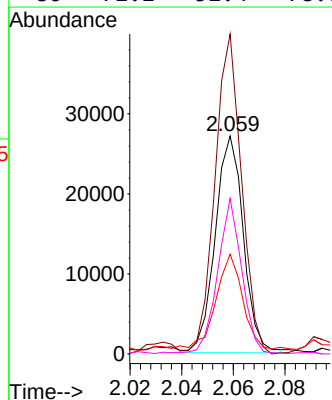
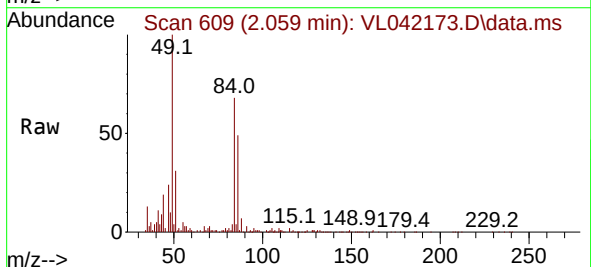
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

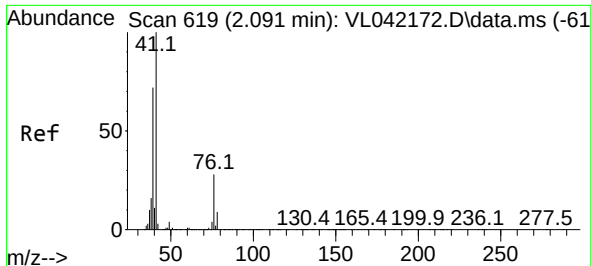
Tgt Ion: 45 Resp: 27804  
Ion Ratio Lower Upper  
45 100  
58 3.3 36.9 55.3#



#20  
Methylene Chloride  
Concen: 2.091 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 84 Resp: 20518  
Ion Ratio Lower Upper  
84 100  
49 148.8 120.2 180.4  
51 43.5 37.4 56.0  
86 72.2 52.4 78.6

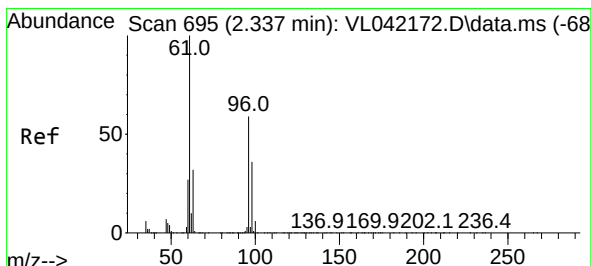
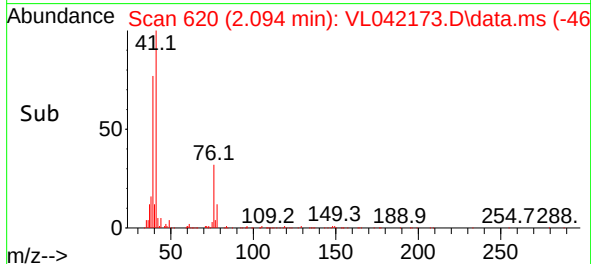
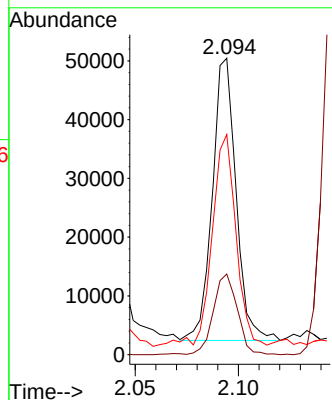
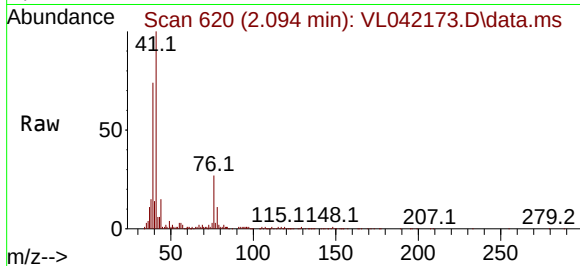




#21  
 Allyl Chloride  
 Concen: 2.068 ppbv  
 RT: 2.094 min Scan# 619  
 Delta R.T. 0.003 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

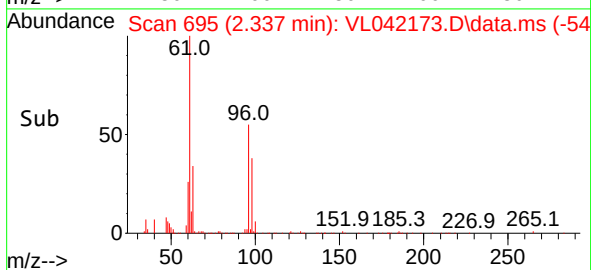
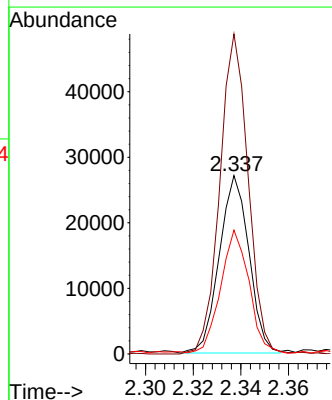
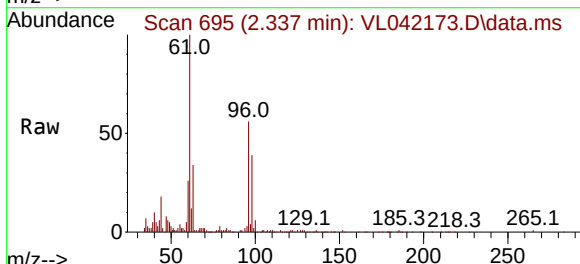
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

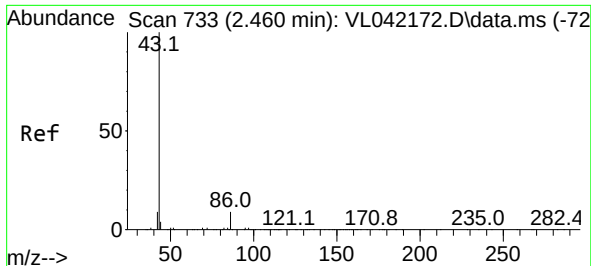
Tgt Ion: 41 Resp: 38425  
 Ion Ratio Lower Upper  
 41 100  
 76 29.0 24.1 36.1  
 39 77.5 61.1 91.7



#22  
 trans-1,2-Dichloroethene  
 Concen: 1.924 ppbv  
 RT: 2.337 min Scan# 695  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Tgt Ion: 96 Resp: 23384  
 Ion Ratio Lower Upper  
 96 100  
 61 180.3 136.6 204.8  
 98 68.6 49.4 74.2

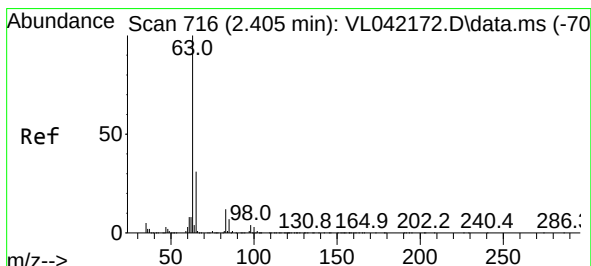
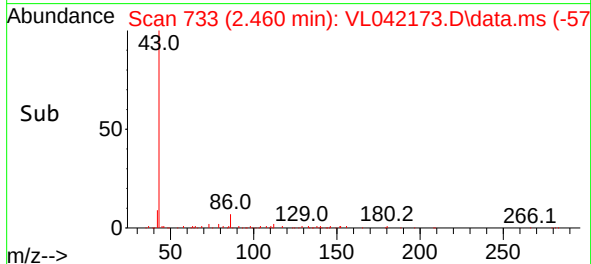
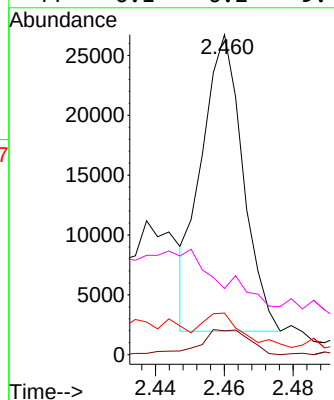
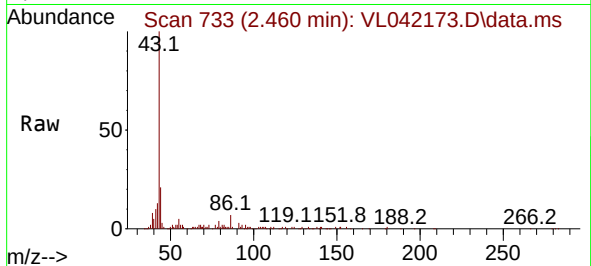




#23  
 Vinyl Acetate  
 Concen: 1.894 ppbv  
 RT: 2.460 min Scan# 716  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

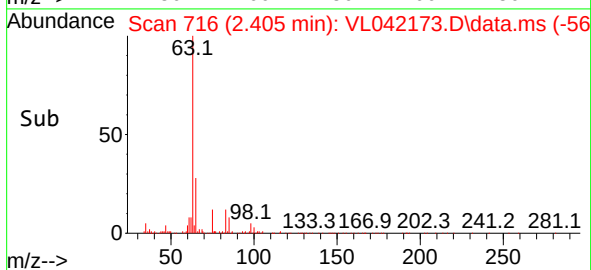
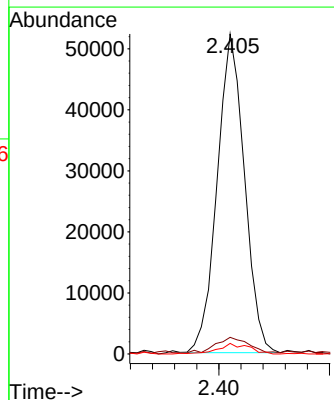
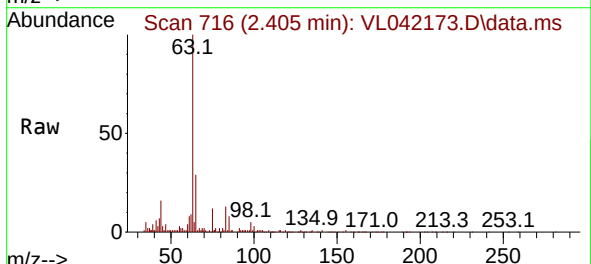
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

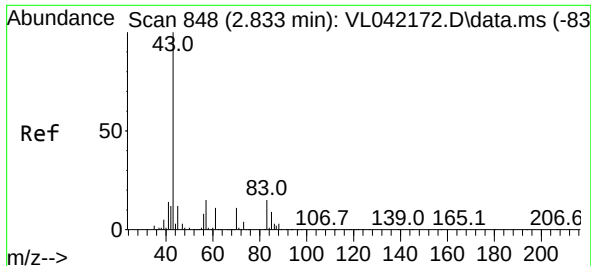
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 20736 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 8.1   | 5.5   | 8.3   |
| 42       | 10.4  | 8.6   | 13.0  |
| 44       | 6.1   | 6.2   | 9.4   |



#24  
 1,1-Dichloroethane  
 Concen: 2.008 ppbv  
 RT: 2.405 min Scan# 716  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 44740 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 4.9   | 2.3   | 6.8   |
| 100      | 3.3   | 1.6   | 4.7   |

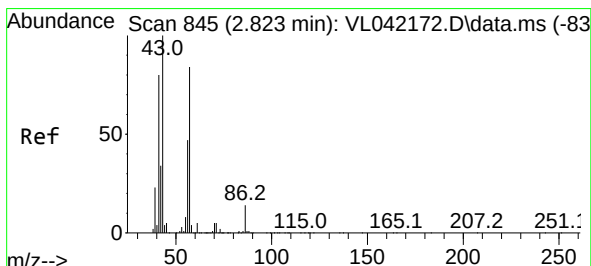
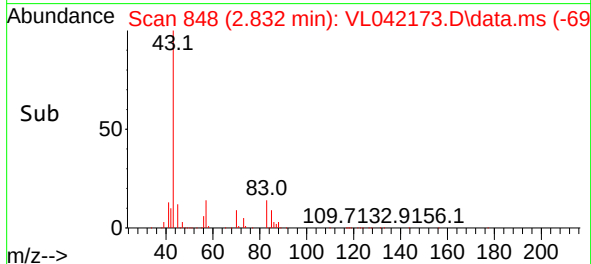
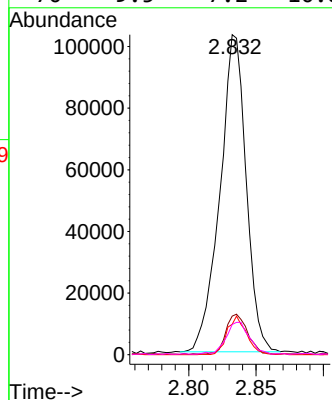
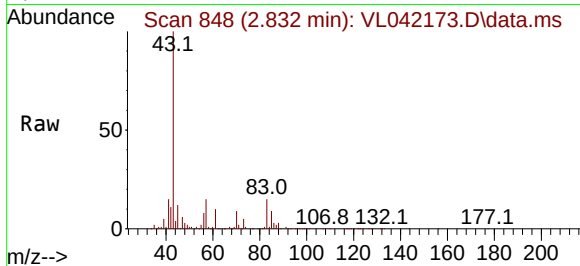




#25  
Ethyl Acetate  
Concen: 2.040 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

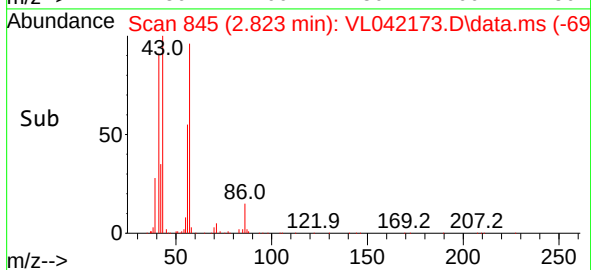
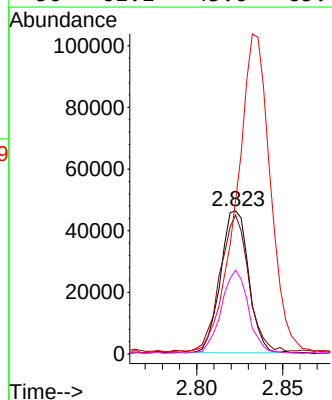
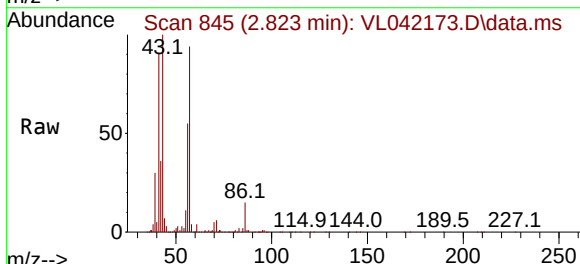
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

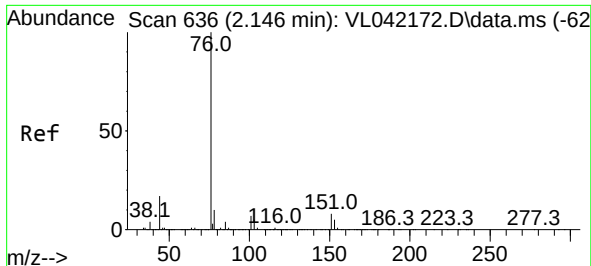
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 139516 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 45 10.9     | 8.2 12.2     |
| 61 9.1      | 7.3 10.9     |
| 70 9.5      | 7.2 10.8     |



#26  
Hexane  
Concen: 1.972 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

|             |             |
|-------------|-------------|
| Tgt Ion: 57 | Resp: 52095 |
| Ion Ratio   | Lower Upper |
| 57 100      |             |
| 41 100.9    | 76.6 114.8  |
| 43 274.8    | 207.8 311.8 |
| 56 61.1     | 43.6 65.4   |

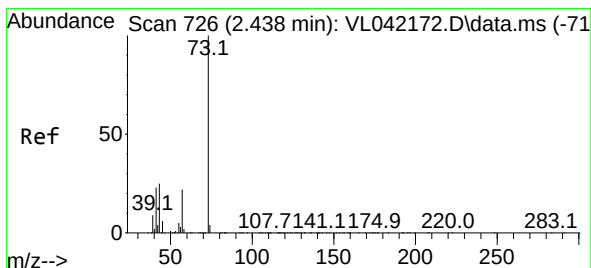
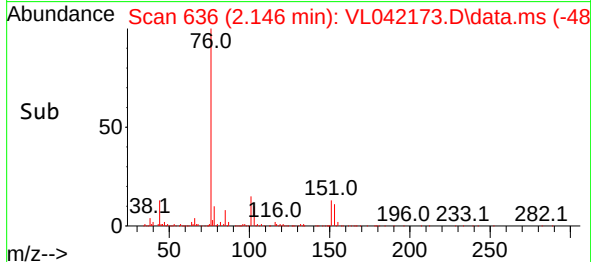
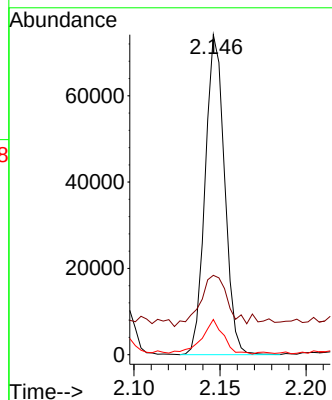
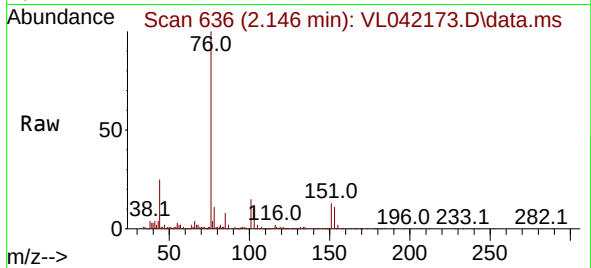




#27  
Carbon Disulfide  
Concen: 2.047 ppbv  
RT: 2.146 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

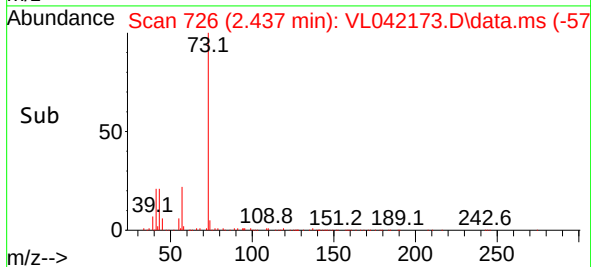
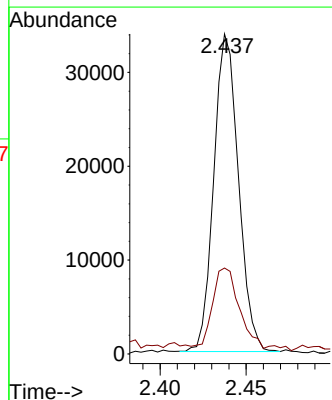
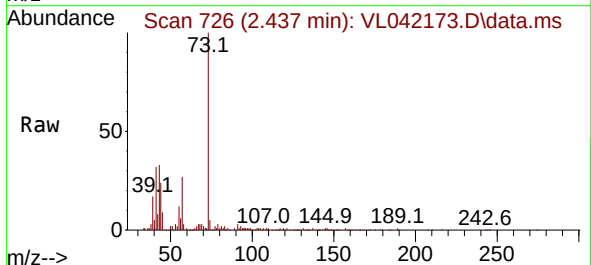
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

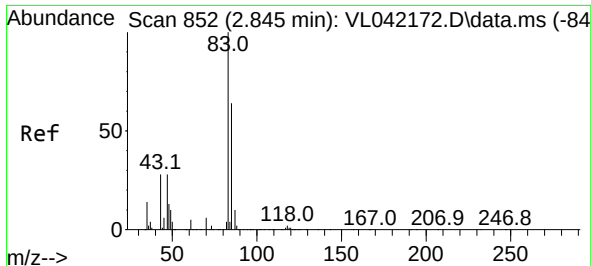
Tgt Ion: 76 Resp: 57969  
Ion Ratio Lower Upper  
76 100  
44 35.2 14.7 22.1#  
78 12.0 9.3 13.9



#28  
Methyl tert-Butyl Ether  
Concen: 2.049 ppbv  
RT: 2.437 min Scan# 726  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 73 Resp: 33703  
Ion Ratio Lower Upper  
73 100  
57 25.2 20.5 30.7





#29

Chloroform

Concen: 2.019 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA\_L

ClientSampleId :

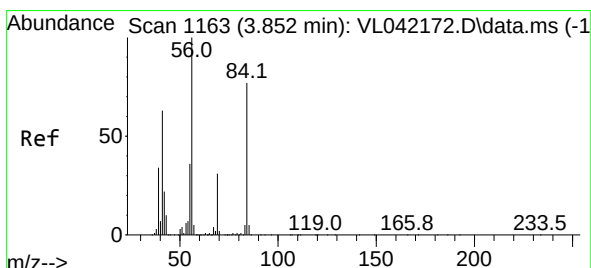
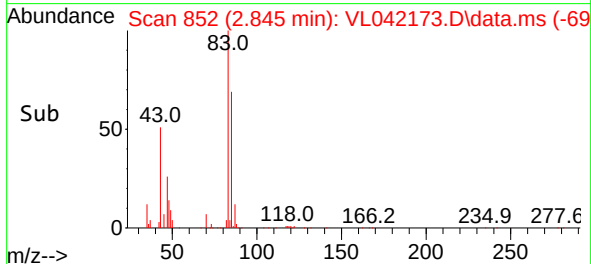
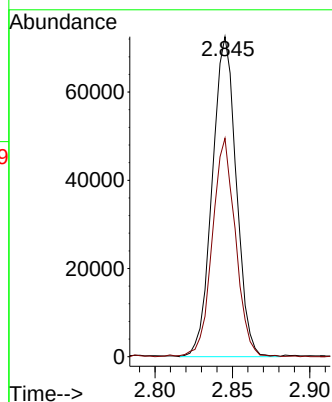
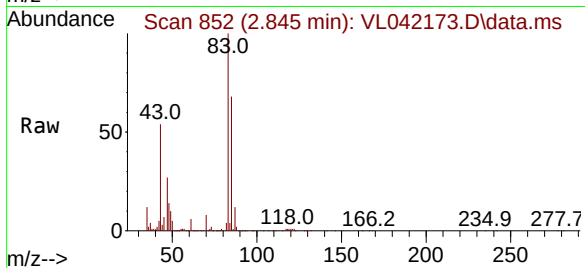
VSTDIC002

Tgt Ion: 83 Resp: 78043

Ion Ratio Lower Upper

83 100

85 68.2 51.4 77.2



#30

Cyclohexane

Concen: 1.989 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

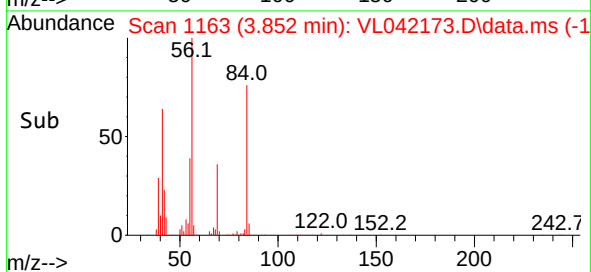
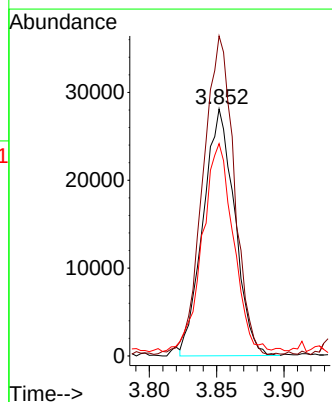
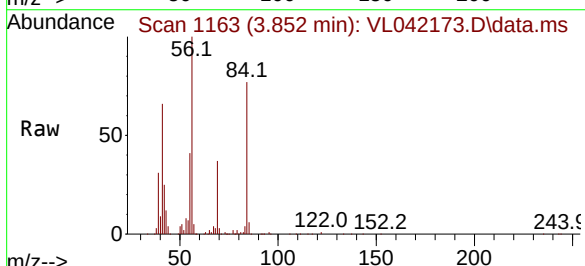
Tgt Ion: 84 Resp: 45641

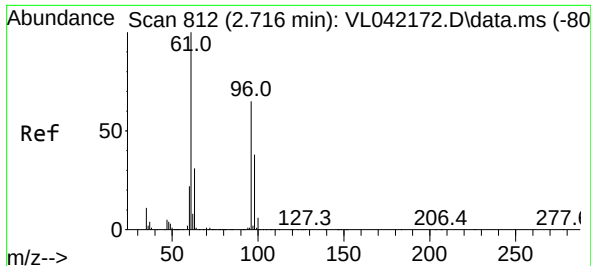
Ion Ratio Lower Upper

84 100

56 127.8 102.8 154.2

41 84.6 66.5 99.7

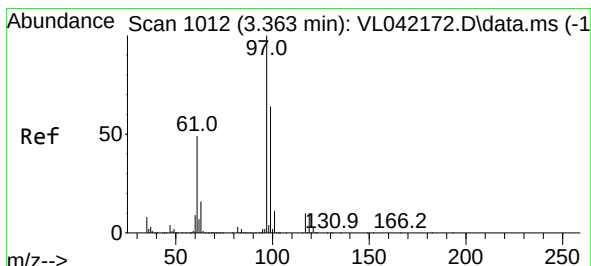
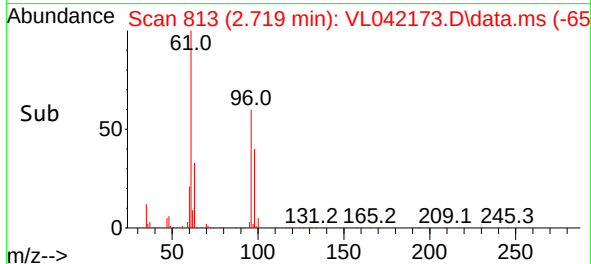
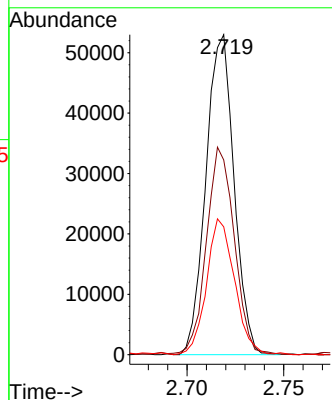
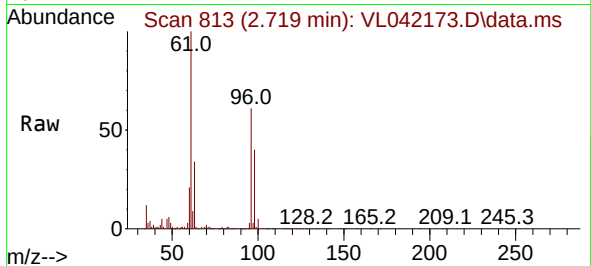




#31  
 cis-1,2-Dichloroethene  
 Concen: 2.003 ppbv  
 RT: 2.719 min Scan# 812  
 Delta R.T. 0.003 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

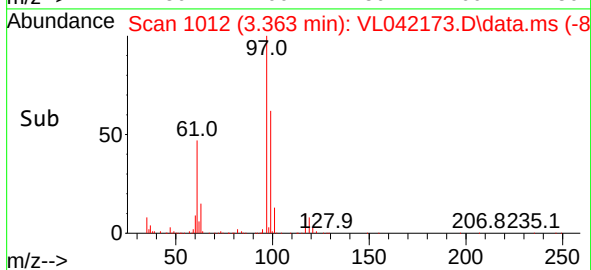
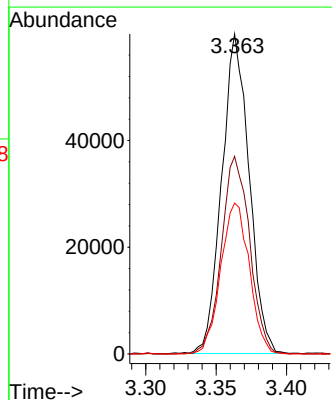
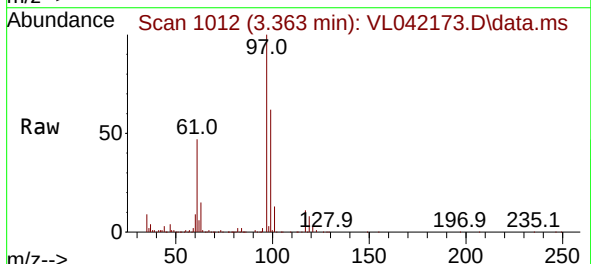
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

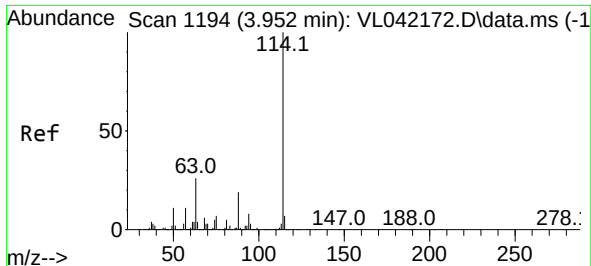
Tgt Ion: 61 Resp: 53713  
 Ion Ratio Lower Upper  
 61 100  
 96 60.6 51.8 77.8  
 98 39.6 30.6 46.0



#32  
 1,1,1-Trichloroethane  
 Concen: 1.833 ppbv  
 RT: 3.363 min Scan# 1012  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Tgt Ion: 97 Resp: 81070  
 Ion Ratio Lower Upper  
 97 100  
 99 63.9 51.5 77.3  
 61 49.3 38.7 58.1

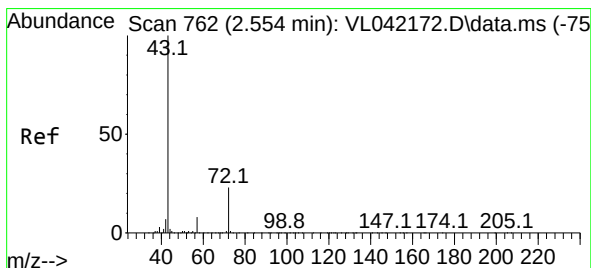
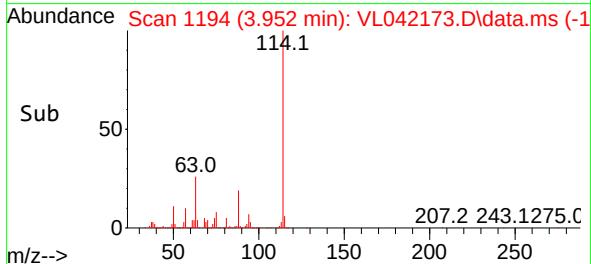
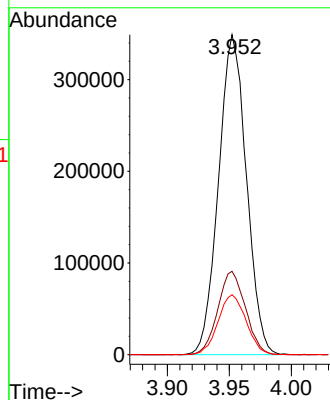
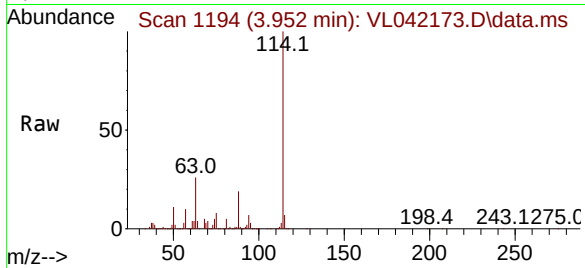




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.952 min Scan# 1194  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

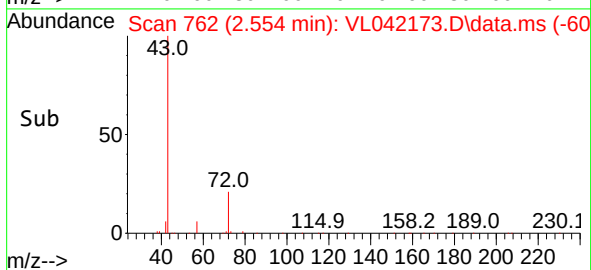
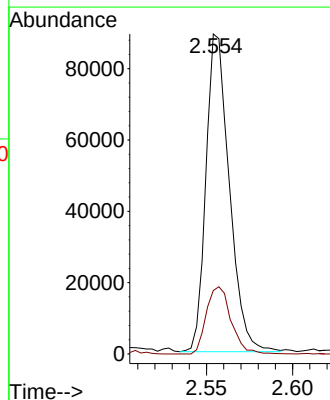
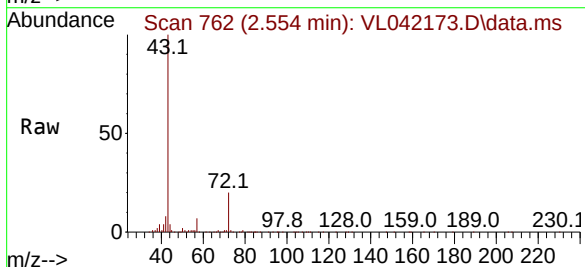
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion:114 Resp: 546394  
Ion Ratio Lower Upper  
114 100  
63 25.9 20.7 31.1  
88 18.9 15.0 22.4

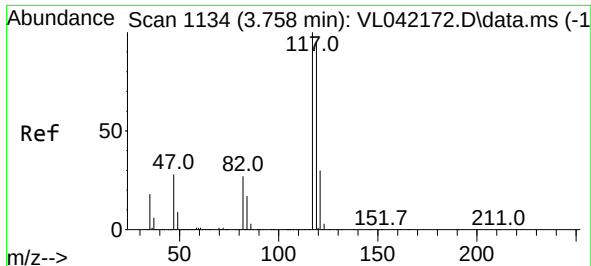


#34  
2-Butanone  
Concen: 2.124 ppbv  
RT: 2.554 min Scan# 762  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 84157  
Ion Ratio Lower Upper  
43 100  
72 22.4 18.2 27.2



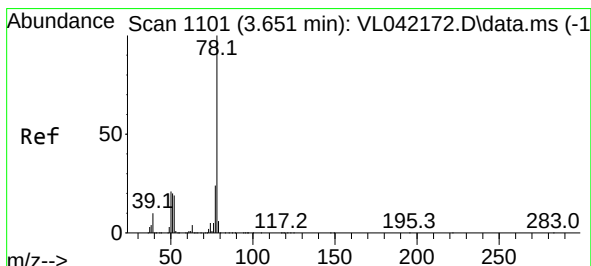
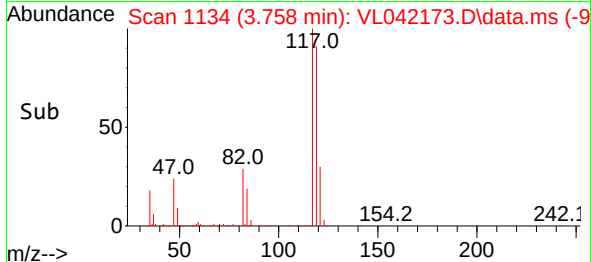
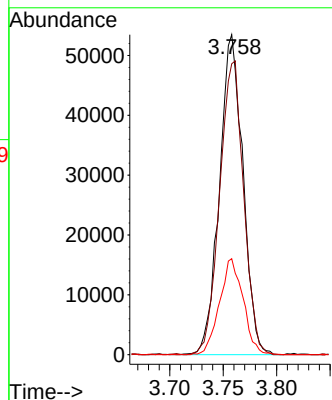
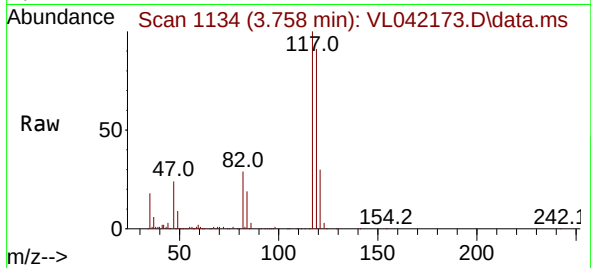




#35  
Carbon Tetrachloride  
Concen: 1.944 ppbv  
RT: 3.758 min Scan# 1134  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

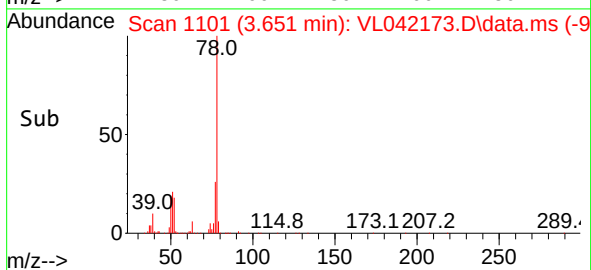
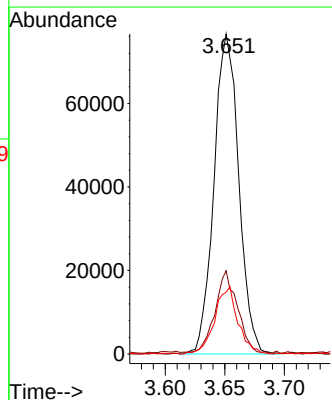
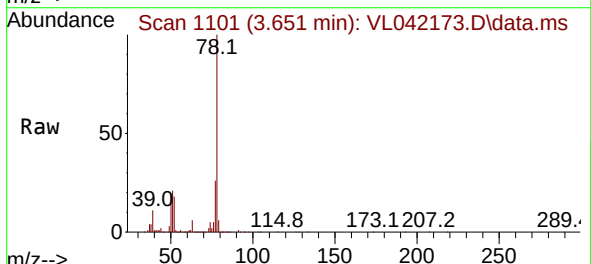
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

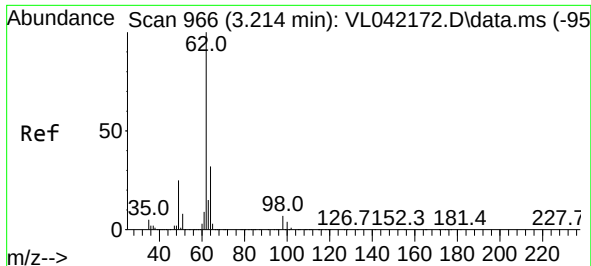
Tgt Ion:117 Resp: 81735  
Ion Ratio Lower Upper  
117 100  
119 90.8 76.2 114.2  
121 30.0 24.2 36.4



#36  
Benzene  
Concen: 2.044 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 78 Resp: 110727  
Ion Ratio Lower Upper  
78 100  
77 25.7 19.1 28.7  
50 19.3 16.6 24.8

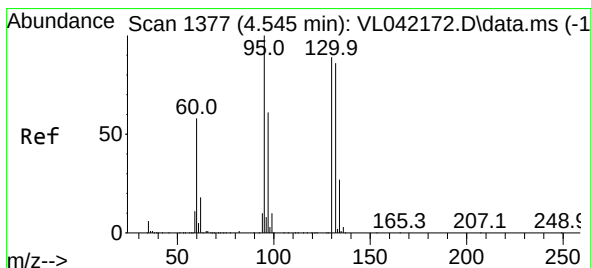
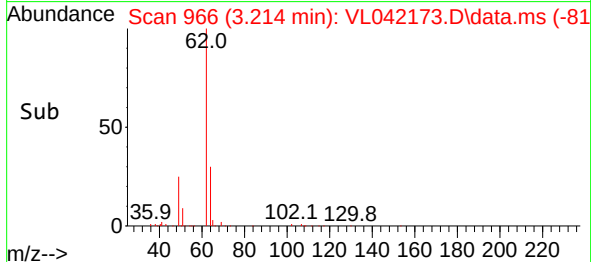
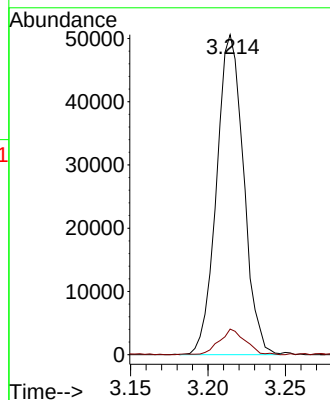
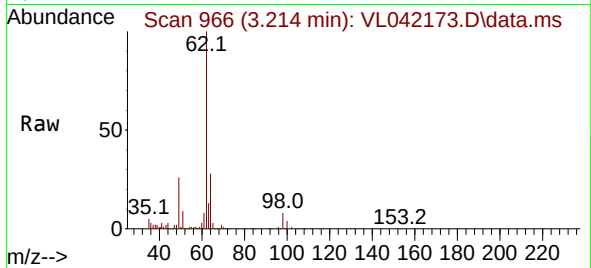




#37  
1,2-Dichloroethane  
Concen: 1.982 ppbv  
RT: 3.214 min Scan# 966  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

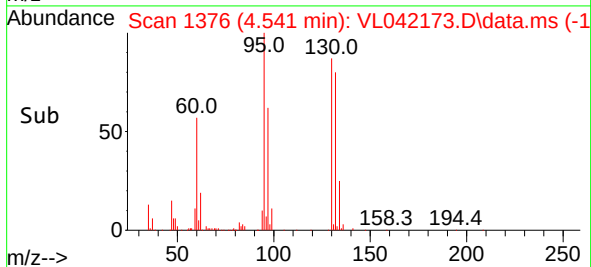
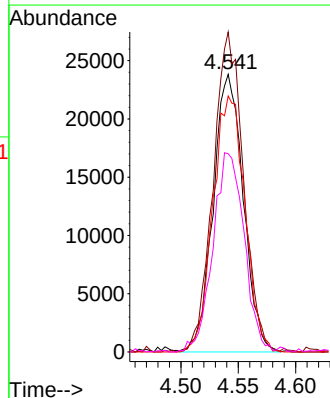
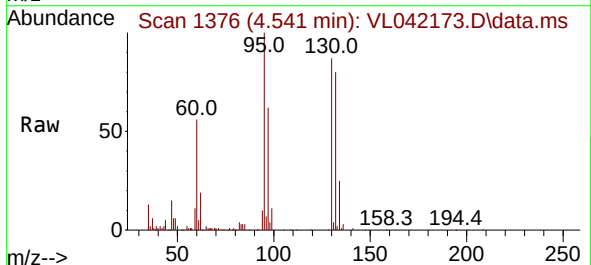
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

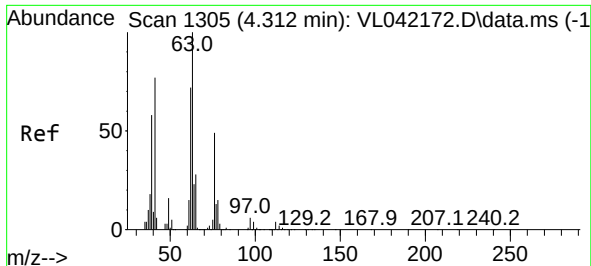
Tgt Ion: 62 Resp: 61476  
Ion Ratio Lower Upper  
62 100  
98 7.7 5.4 8.2



#38  
Trichloroethene  
Concen: 1.924 ppbv  
RT: 4.541 min Scan# 1376  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion:130 Resp: 43501  
Ion Ratio Lower Upper  
130 100  
95 114.8 89.8 134.8  
132 92.2 77.4 116.2  
97 70.8 55.1 82.7





#39

1,2-Dichloropropane

Concen: 2.023 ppbv

RT: 4.308 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

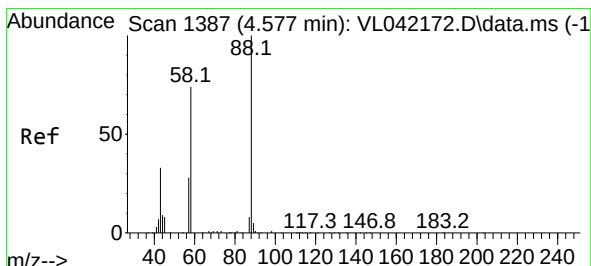
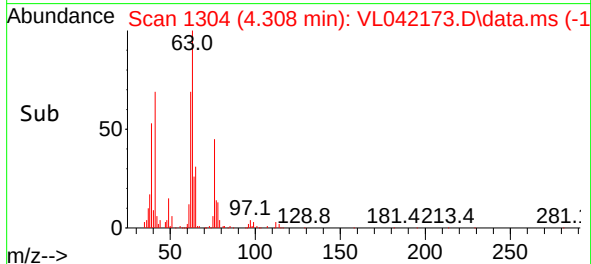
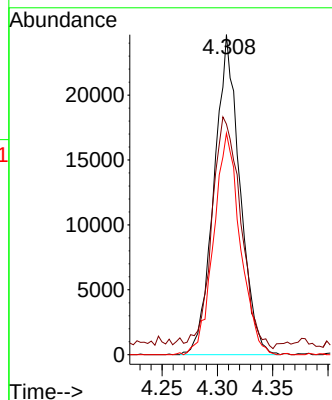
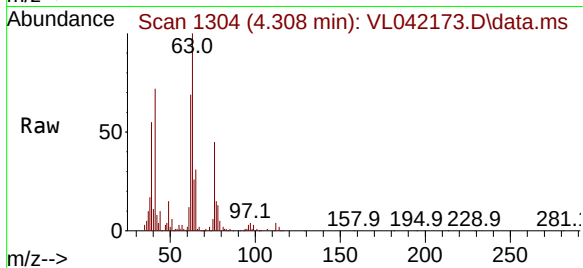
Tgt Ion: 63 Resp: 39912

Ion Ratio Lower Upper

63 100

41 68.6 61.7 92.5

62 69.2 57.6 86.4



#40

1,4-Dioxane

Concen: 1.369 ppbv

RT: 4.587 min Scan# 1390

Delta R.T. 0.009 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion: 88 Resp: 14008

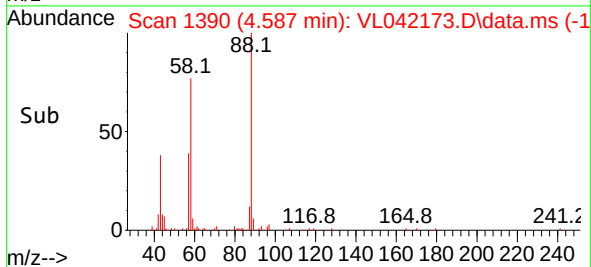
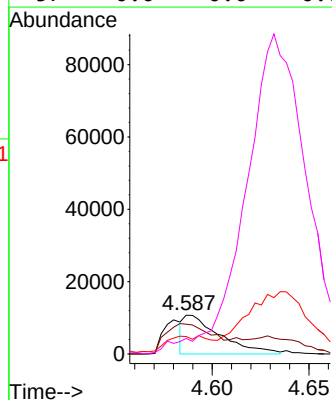
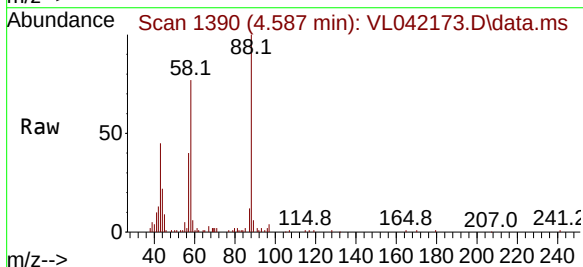
Ion Ratio Lower Upper

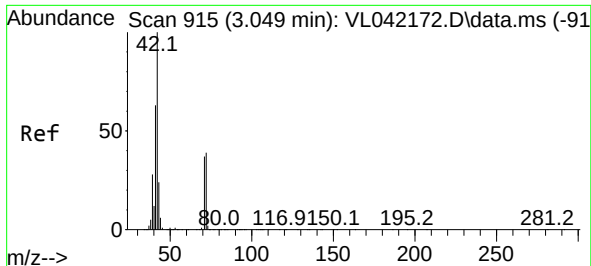
88 100

58 178.2 62.7 94.1#

43 0.0 23.0 34.4#

57 0.0 0.0 0.0

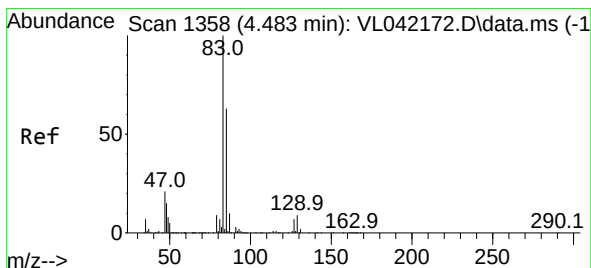
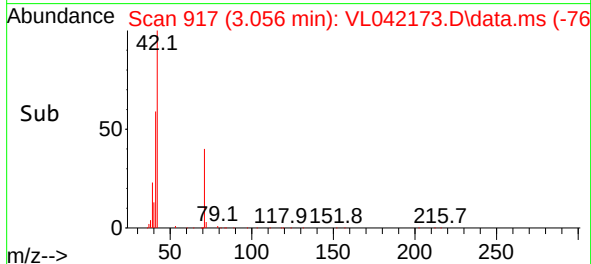
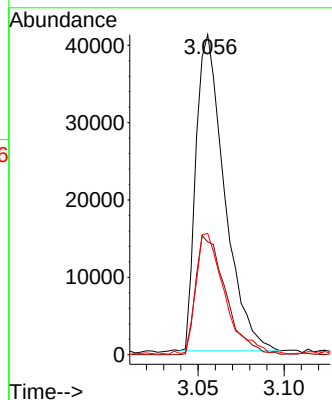
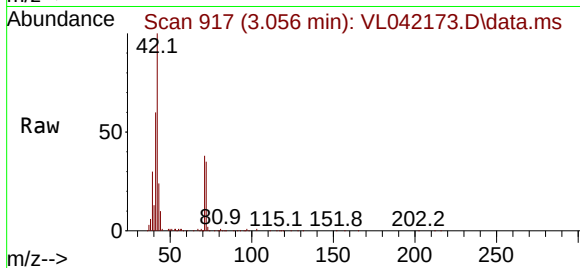




#41  
Tetrahydrofuran  
Concen: 2.097 ppbv  
RT: 3.056 min Scan# 915  
Delta R.T. 0.006 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

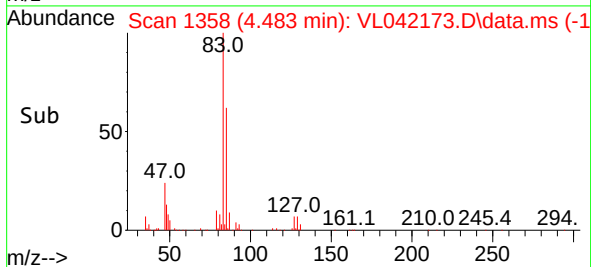
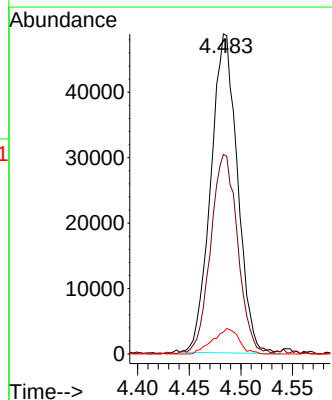
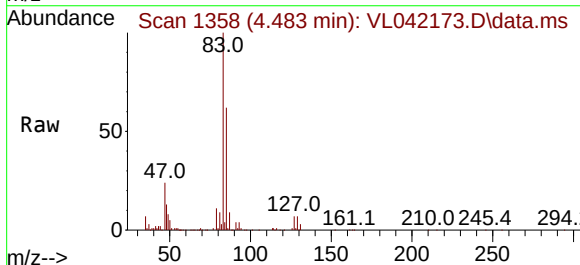
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

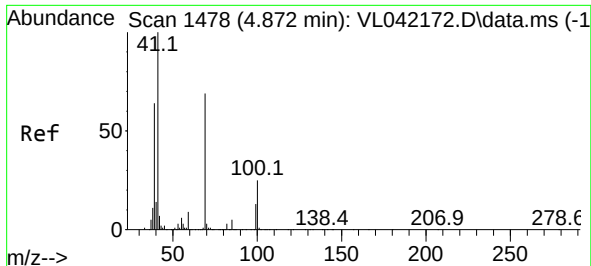
Tgt Ion: 42 Resp: 47262  
Ion Ratio Lower Upper  
42 100  
72 39.6 31.4 47.0  
71 39.0 30.2 45.4



#42  
Bromodichloromethane  
Concen: 2.050 ppbv  
RT: 4.483 min Scan# 1358  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 83 Resp: 87640  
Ion Ratio Lower Upper  
83 100  
85 62.2 50.5 75.7  
127 6.9 5.9 8.9

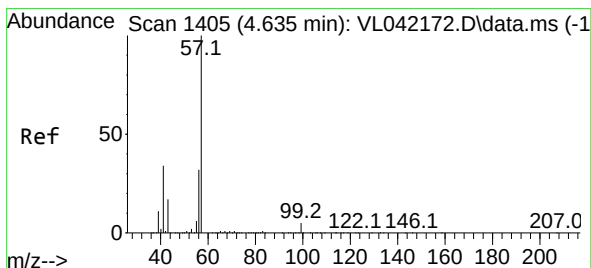
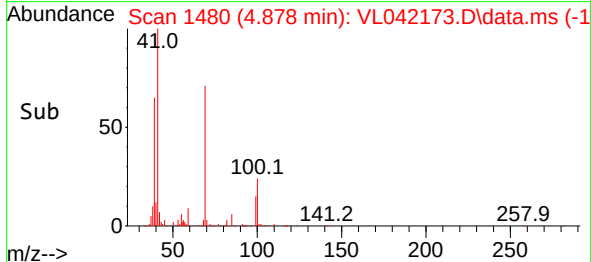
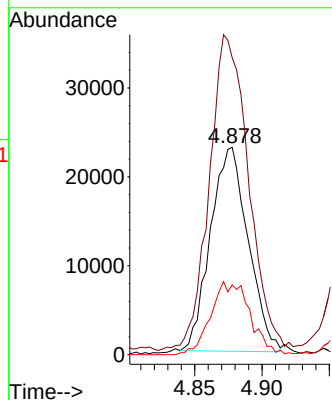
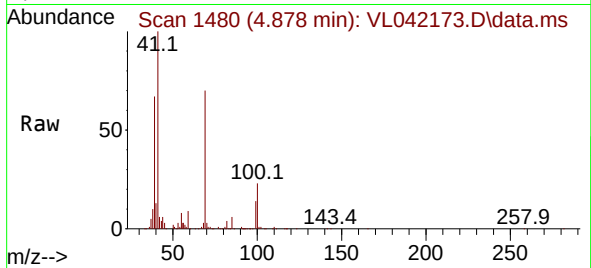




#43  
Methyl Methacrylate  
Concen: 1.952 ppbv  
RT: 4.878 min Scan# 1478  
Delta R.T. 0.006 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

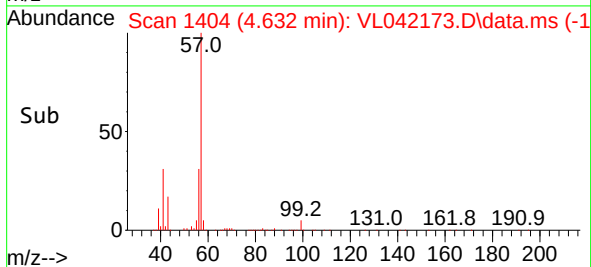
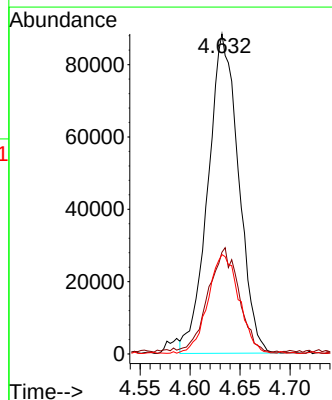
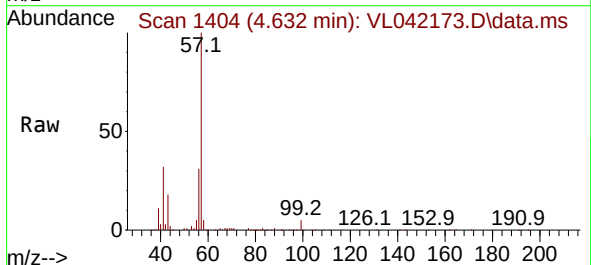
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

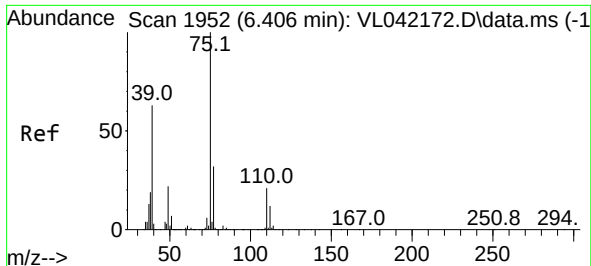
Tgt Ion: 69 Resp: 44624  
Ion Ratio Lower Upper  
69 100  
41 158.7 123.8 185.6  
100 37.5 28.4 42.6



#44  
2,2,4-Trimethylpentane  
Concen: 2.057 ppbv  
RT: 4.632 min Scan# 1404  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 57 Resp: 188282  
Ion Ratio Lower Upper  
57 100  
41 33.8 26.8 40.2  
56 31.8 25.6 38.4

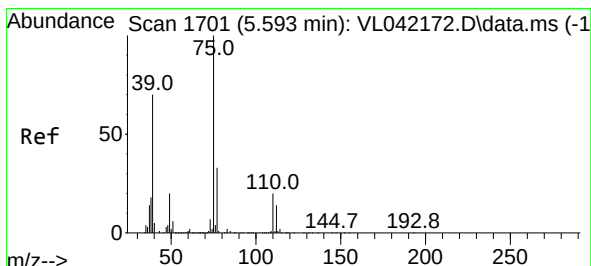
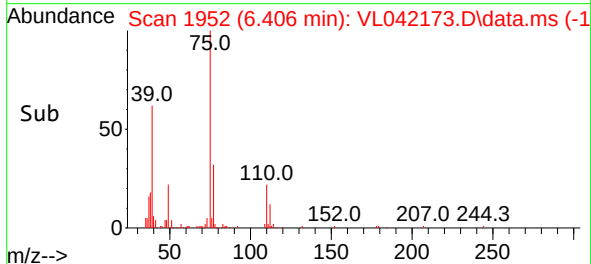
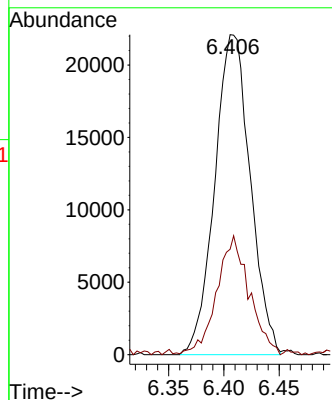
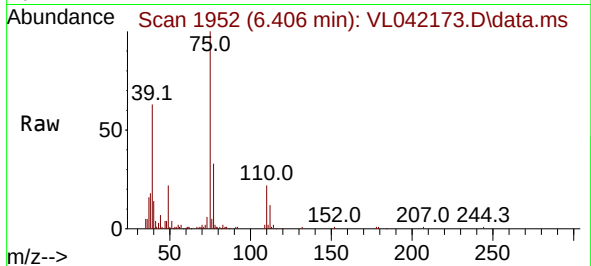




#45  
 t-1,3-Dichloropropene  
 Concen: 2.011 ppbv  
 RT: 6.406 min Scan# 1952  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

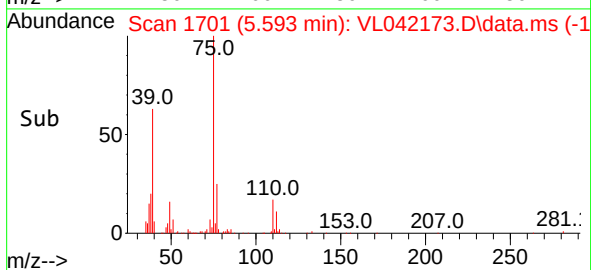
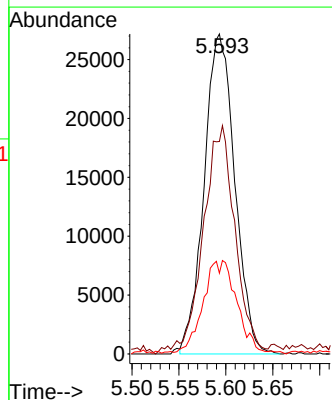
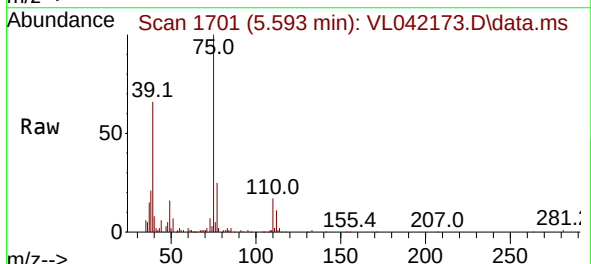
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

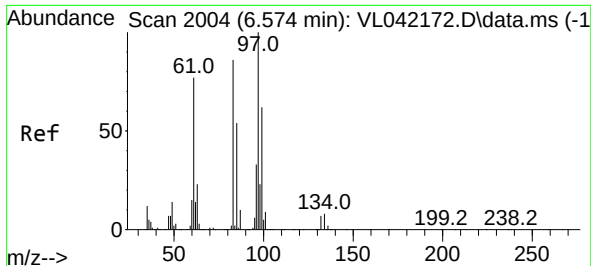
Tgt Ion: 75 Resp: 49461  
 Ion Ratio Lower Upper  
 75 100  
 77 32.9 26.0 39.0



#46  
 cis-1,3-Dichloropropene  
 Concen: 2.050 ppbv  
 RT: 5.593 min Scan# 1701  
 Delta R.T. -0.000 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Tgt Ion: 75 Resp: 61829  
 Ion Ratio Lower Upper  
 75 100  
 39 64.4 55.8 83.6  
 77 24.5 26.0 39.0#

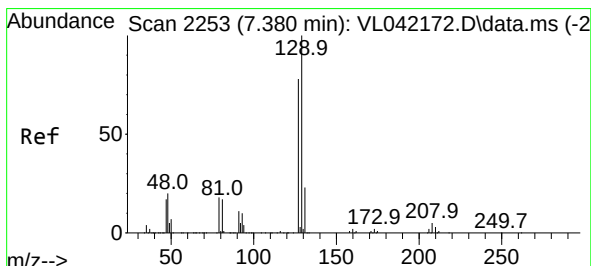
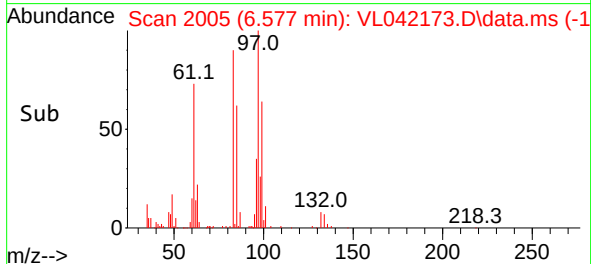
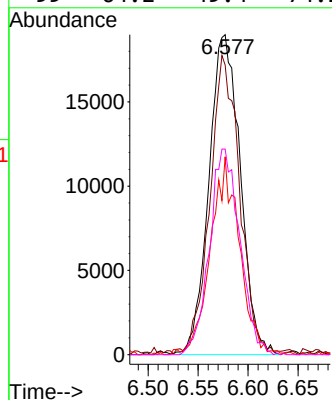
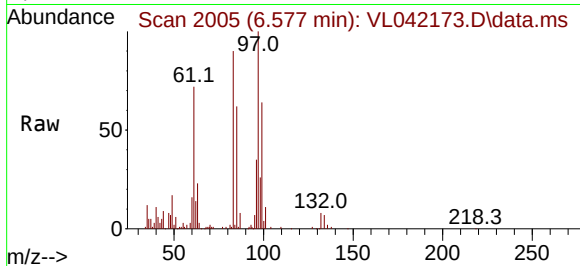




#47  
 1,1,2-Trichloroethane  
 Concen: 1.985 ppbv  
 RT: 6.577 min Scan# 20  
 Delta R.T. 0.003 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

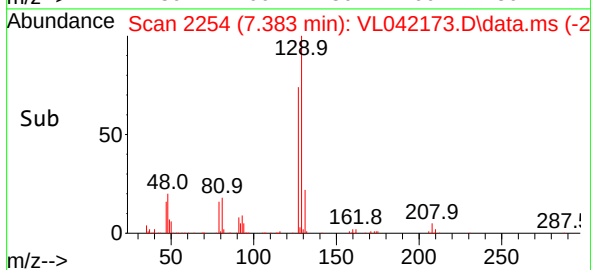
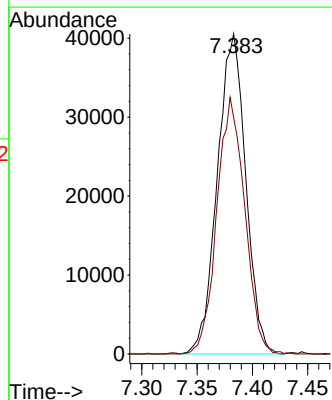
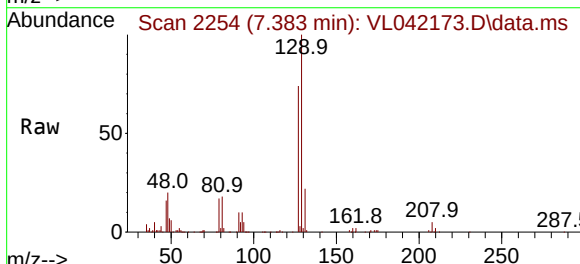
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

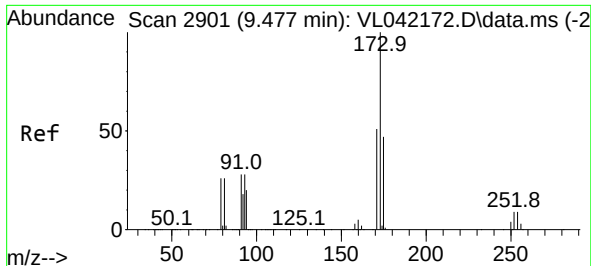
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 41387 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 89.4  | 69.2  | 103.8 |
| 85       | 61.3  | 43.1  | 64.7  |
| 99       | 64.2  | 49.4  | 74.2  |



#48  
 Dibromochloromethane  
 Concen: 2.050 ppbv  
 RT: 7.383 min Scan# 2254  
 Delta R.T. 0.003 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 72441 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 78.5  | 39.1  | 117.2 |

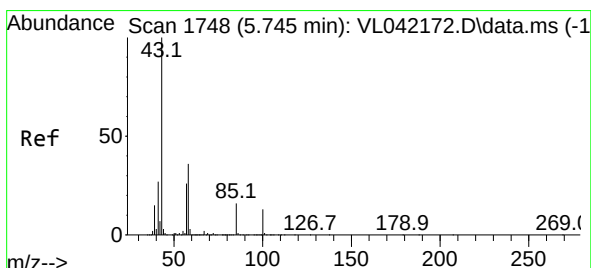
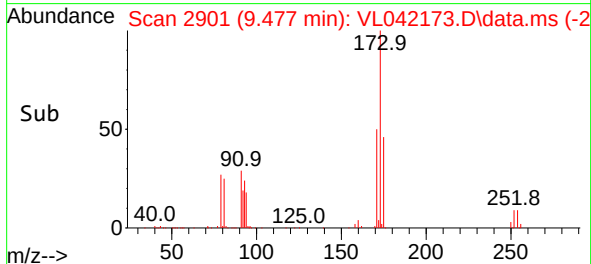
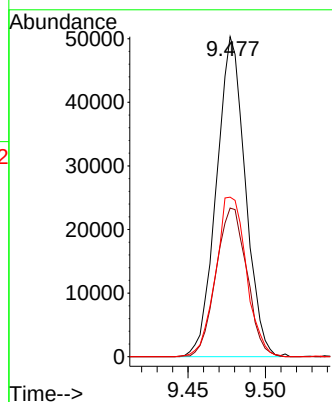
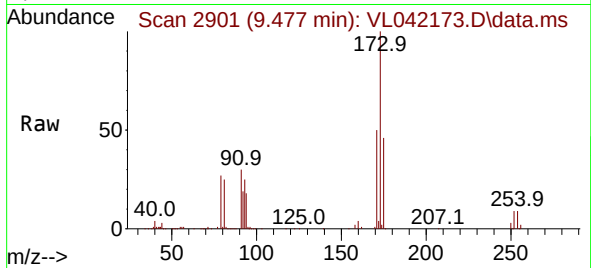




#49  
Bromoform  
Concen: 2.056 ppbv  
RT: 9.477 min Scan# 2901  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

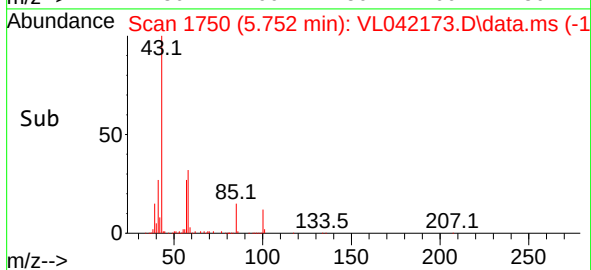
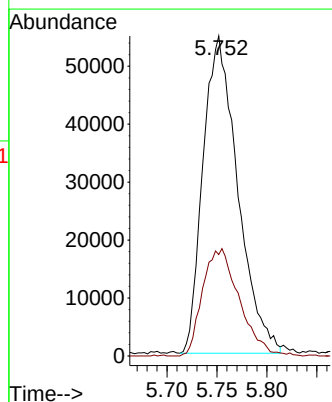
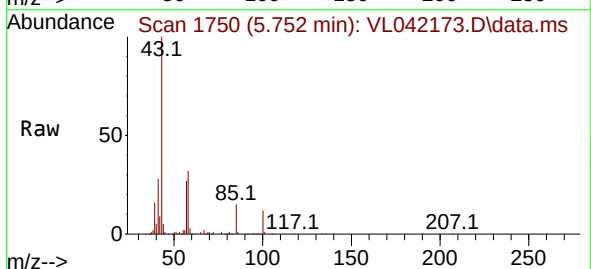
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion:173 Resp: 65221  
Ion Ratio Lower Upper  
173 100  
175 49.7 38.6 57.8  
171 53.0 41.8 62.6

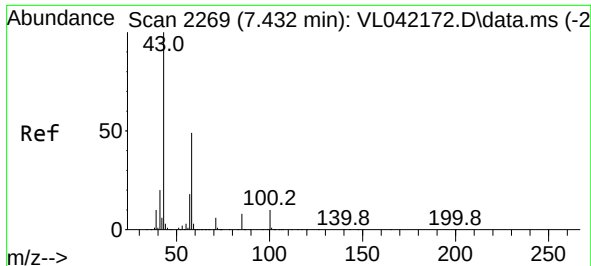


#50  
4-Methyl-2-Pentanone  
Concen: 2.107 ppbv  
RT: 5.752 min Scan# 1750  
Delta R.T. 0.006 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 43 Resp: 132328  
Ion Ratio Lower Upper  
43 100  
58 35.9 29.0 43.6



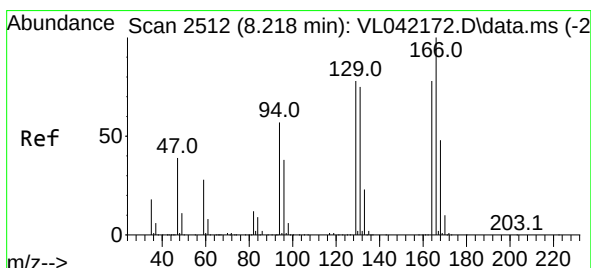
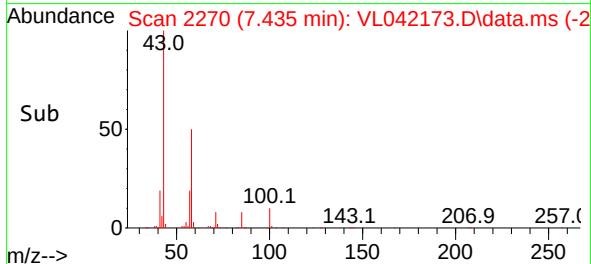
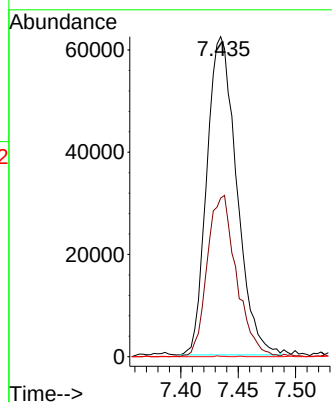
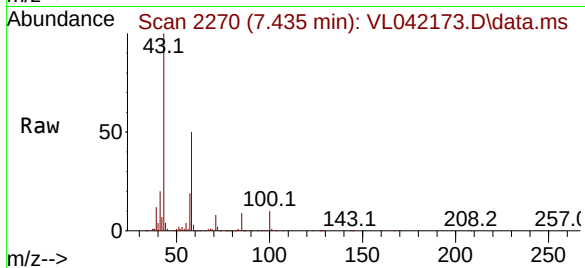




#51  
2-Hexanone  
Concen: 2.162 ppbv  
RT: 7.435 min Scan# 2113  
Delta R.T. 0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

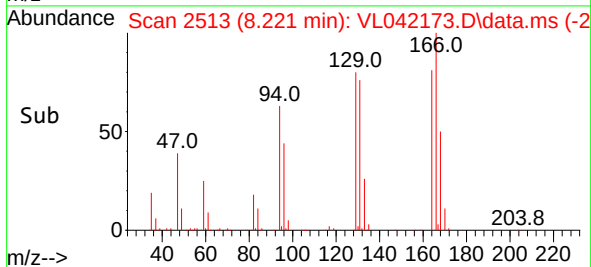
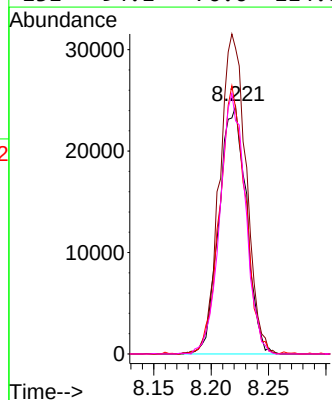
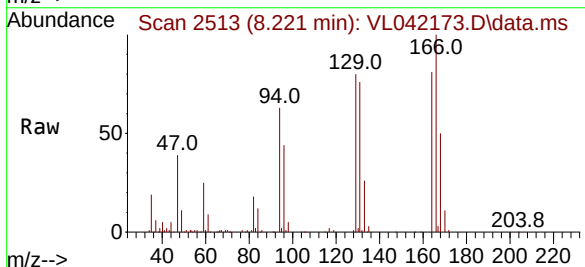
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

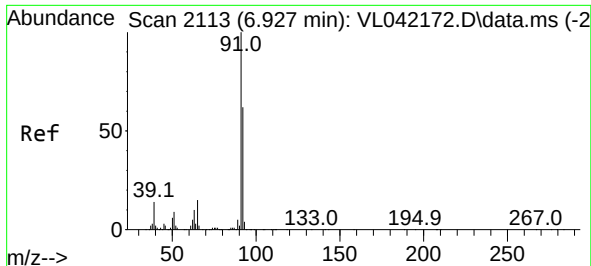
Tgt Ion: 43 Resp: 112681  
Ion Ratio Lower Upper  
43 100  
58 50.0 39.7 59.5  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 1.888 ppbv  
RT: 8.221 min Scan# 2513  
Delta R.T. 0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 164 Resp: 40558  
Ion Ratio Lower Upper  
164 100  
166 123.4 102.5 153.7  
129 99.2 79.8 119.8  
131 94.1 76.6 114.8

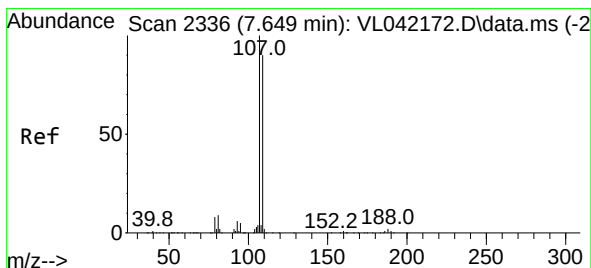
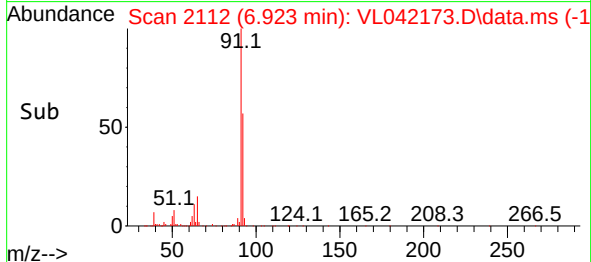
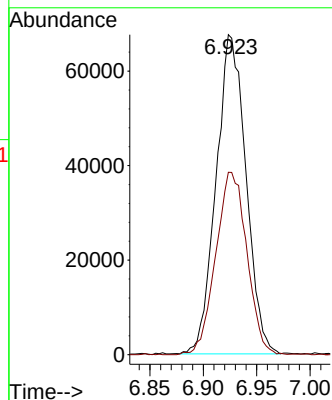
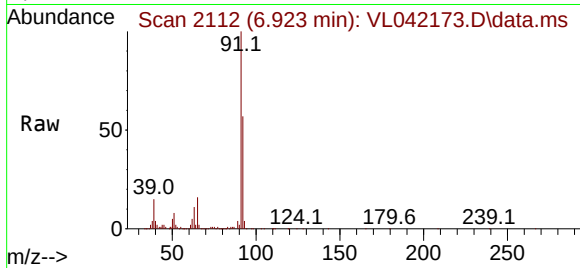




#53  
Toluene  
Concen: 2.045 ppbv  
RT: 6.923 min Scan# 2113  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

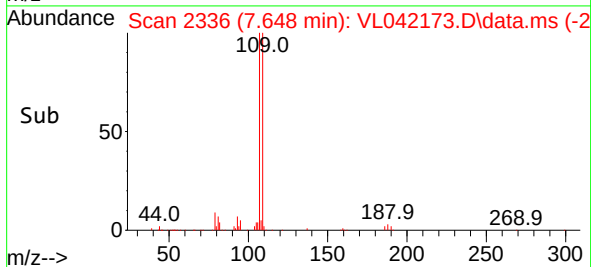
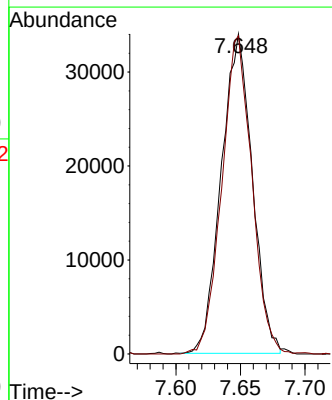
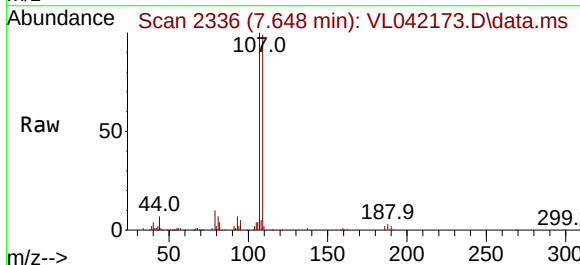
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

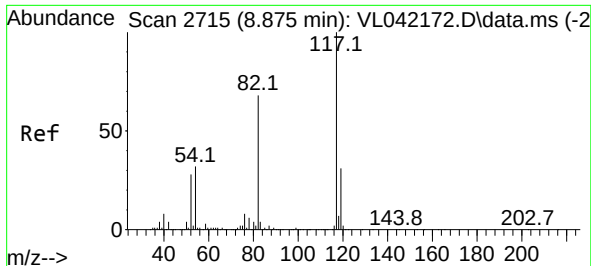
Tgt Ion: 91 Resp: 131314  
Ion Ratio Lower Upper  
91 100  
92 59.6 48.4 72.6



#54  
1,2-Dibromoethane  
Concen: 1.952 ppbv  
RT: 7.648 min Scan# 2336  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 107 Resp: 56799  
Ion Ratio Lower Upper  
107 100  
109 99.7 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

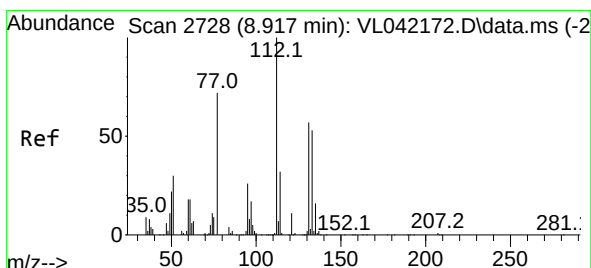
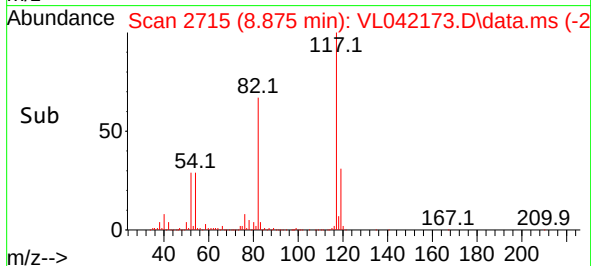
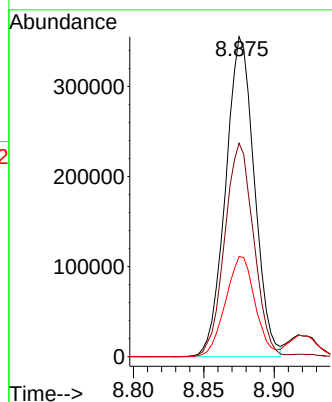
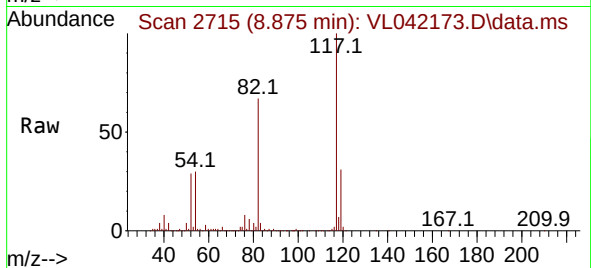
Tgt Ion:117 Resp: 504538

Ion Ratio Lower Upper

117 100

82 68.2 55.8 83.6

119 33.0 25.5 38.3



#56

1,1,1,2-Tetrachloroethane

Concen: 2.093 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. 0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

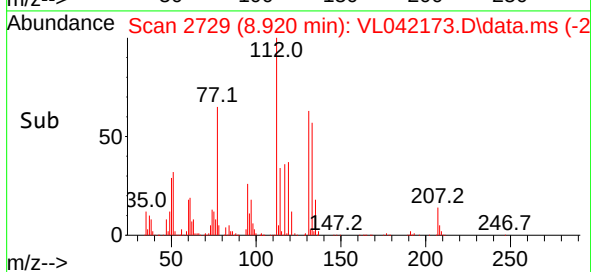
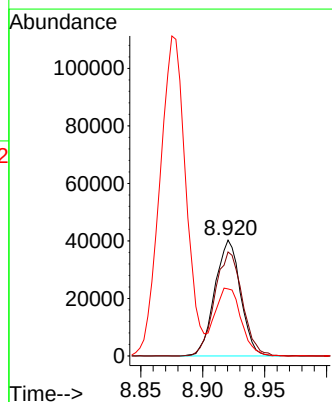
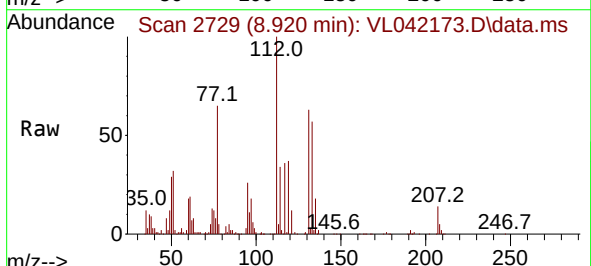
Tgt Ion:131 Resp: 58141

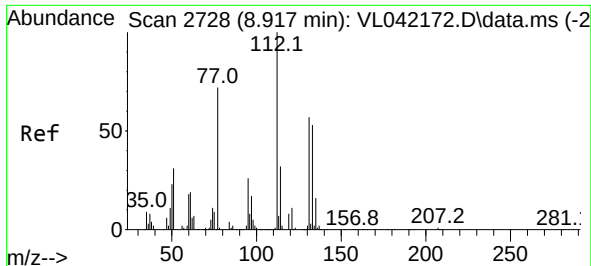
Ion Ratio Lower Upper

131 100

133 96.6 76.6 114.8

119 58.3 49.8 74.6

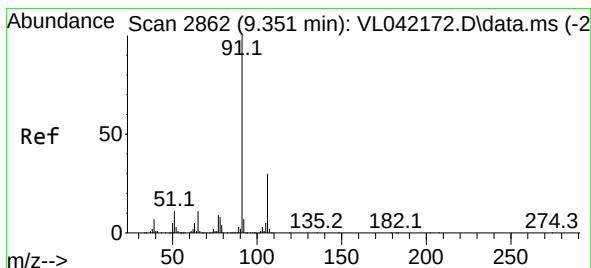
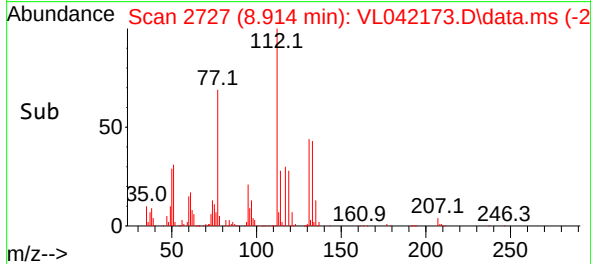
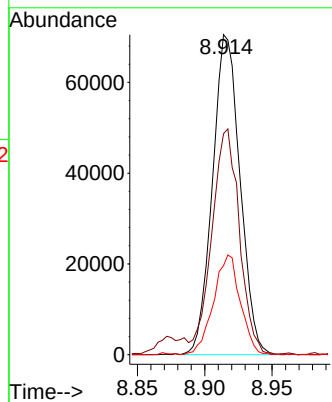
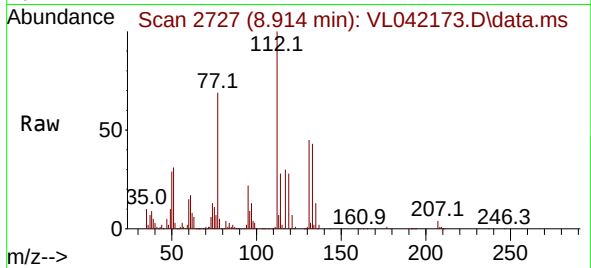




#57  
Chlorobenzene  
Concen: 2.096 ppbv  
RT: 8.914 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

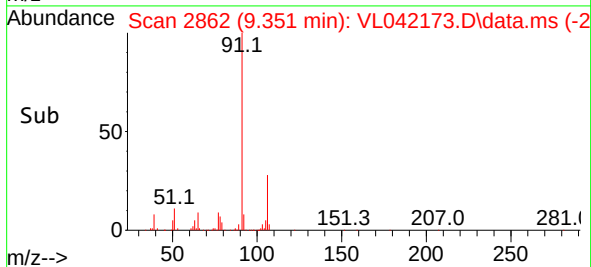
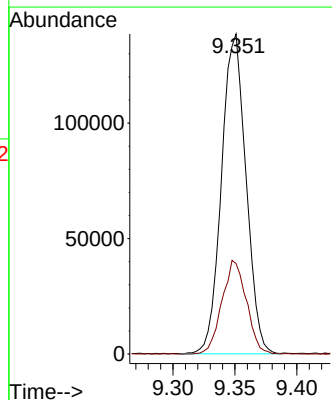
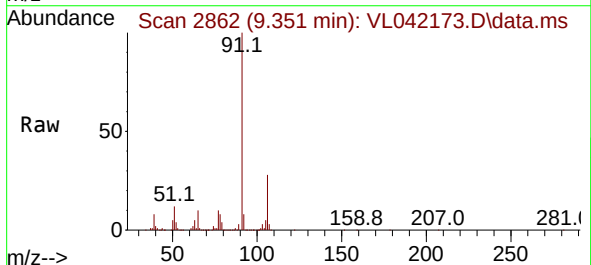
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

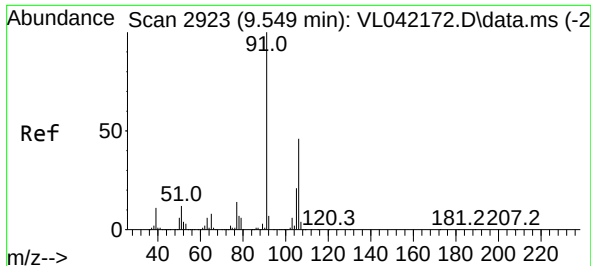
Tgt Ion:112 Resp: 100308  
Ion Ratio Lower Upper  
112 100  
77 68.8 58.2 87.2  
114 27.8 29.1 35.5#



#58  
Ethyl Benzene  
Concen: 2.132 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 191114  
Ion Ratio Lower Upper  
91 100  
106 28.3 24.2 36.2

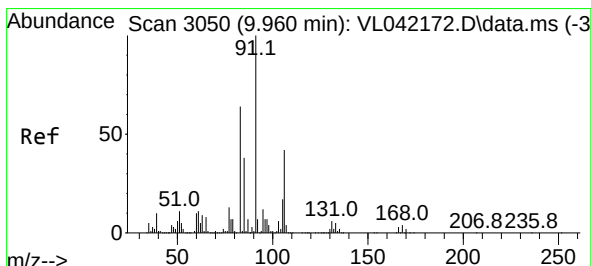
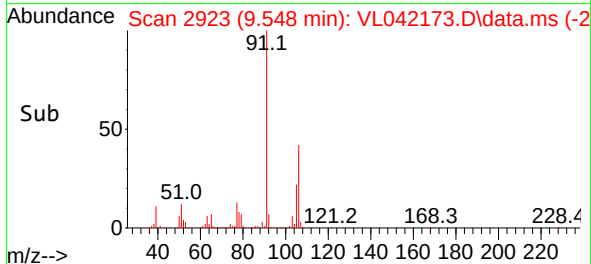
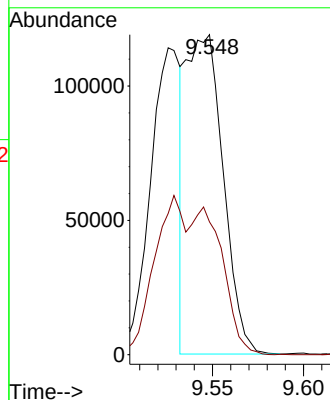
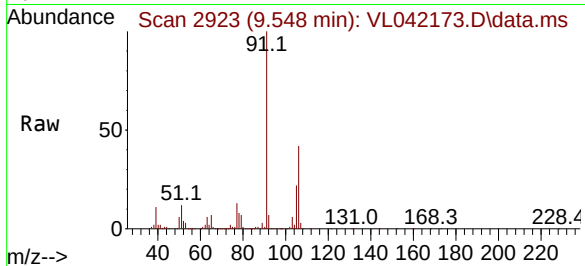




#59  
m/p-Xylene  
Concen: 2.333 ppbv  
RT: 9.548 min Scan# 2923  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

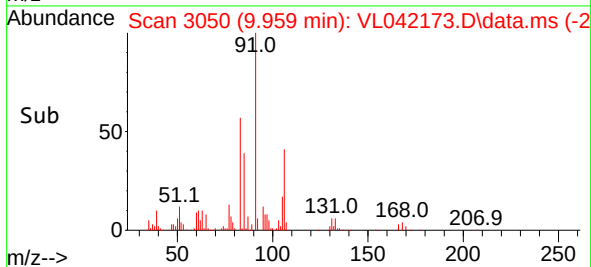
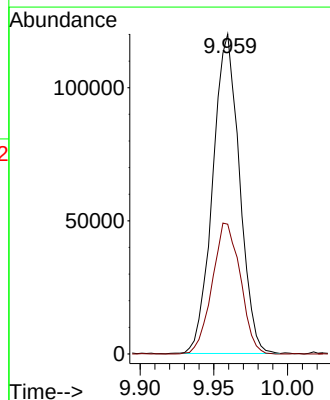
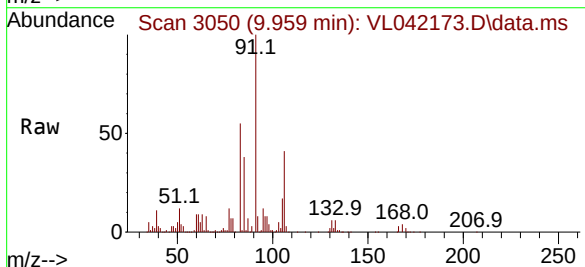
Instrument : MSVOA\_1  
ClientSampleId : VSTDIC002

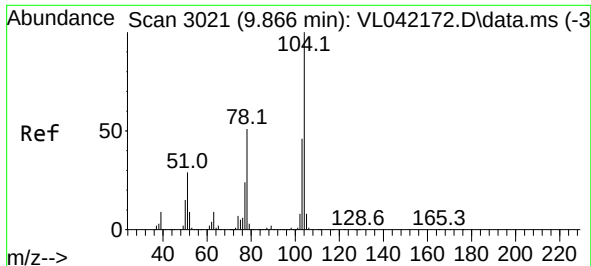
Tgt Ion: 91 Resp: 167182  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.4 54.6#



#60  
o-Xylene  
Concen: 2.109 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 151292  
Ion Ratio Lower Upper  
91 100  
106 43.2 20.8 62.5





#61

Styrene

Concen: 2.089 ppbv

RT: 9.865 min Scan# 3021

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

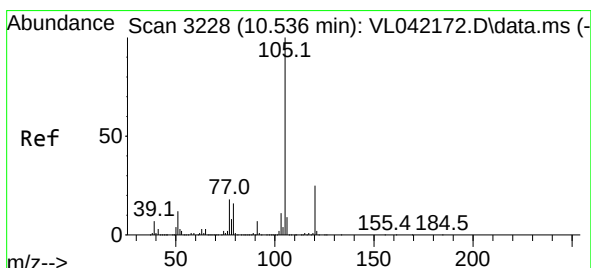
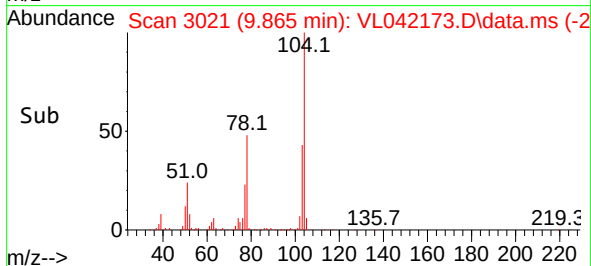
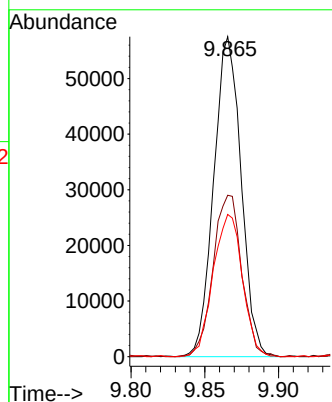
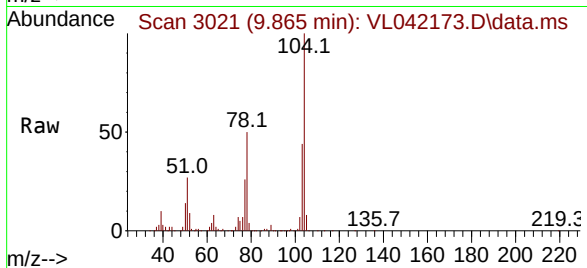
Tgt Ion:104 Resp: 74134

Ion Ratio Lower Upper

104 100

78 52.8 41.8 62.6

103 47.8 37.0 55.4



#62

Isopropylbenzene

Concen: 2.127 ppbv

RT: 10.535 min Scan# 3228

Delta R.T. -0.000 min

Lab File: VL042173.D

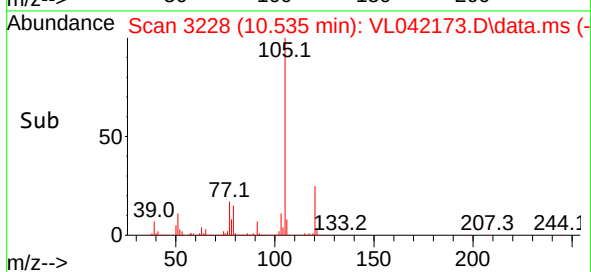
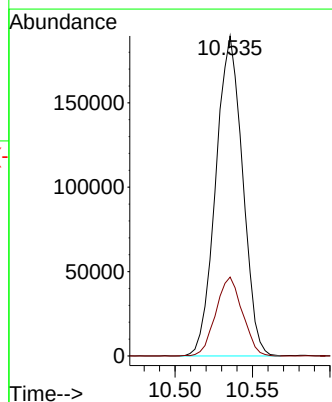
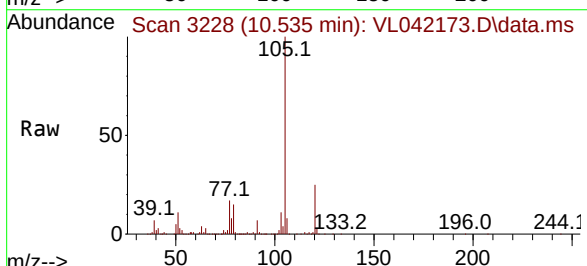
Acq: 27 Mar 2025 08:59

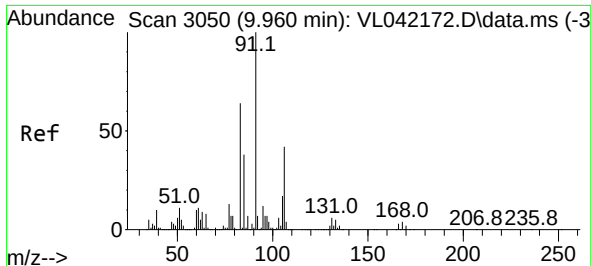
Tgt Ion:105 Resp: 228191

Ion Ratio Lower Upper

105 100

120 24.4 19.9 29.9

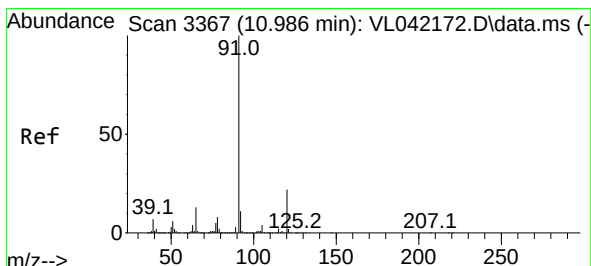
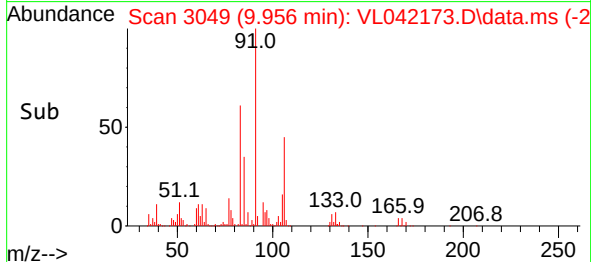
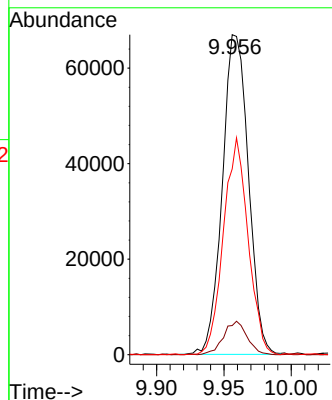
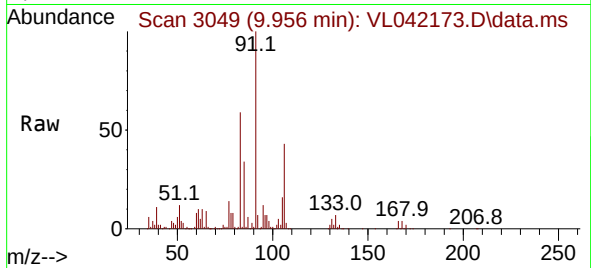




#63  
1,1,2,2-Tetrachloroethane  
Concen: 2.067 ppbv  
RT: 9.956 min Scan# 3050  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

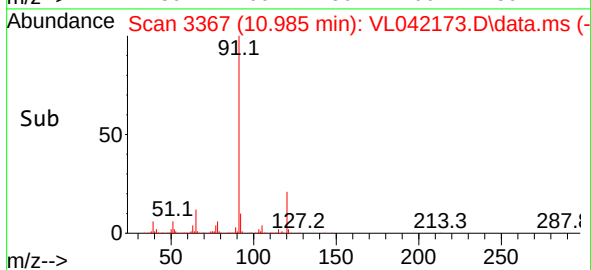
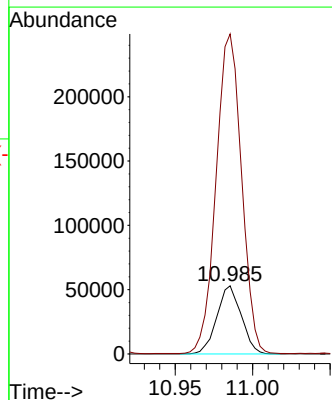
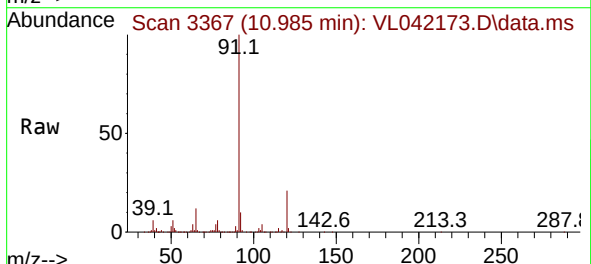
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

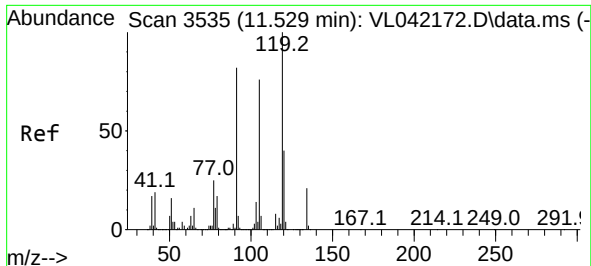
Tgt Ion: 83 Resp: 90114  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.4  
85 64.4 32.5 97.5



#64  
n-propylbenzene  
Concen: 2.104 ppbv  
RT: 10.985 min Scan# 3367  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 120 Resp: 58105  
Ion Ratio Lower Upper  
120 100  
91 491.1 376.9 565.3

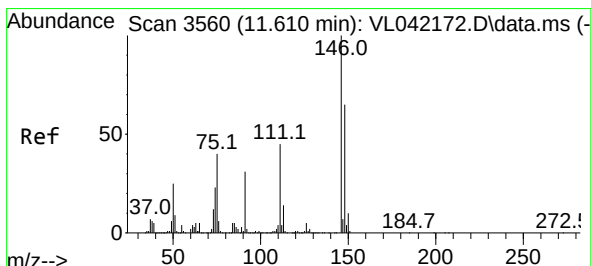
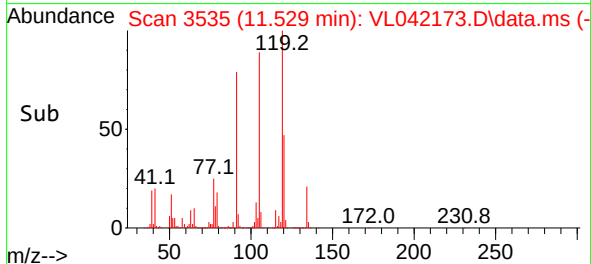
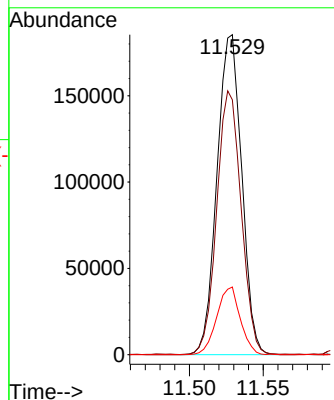
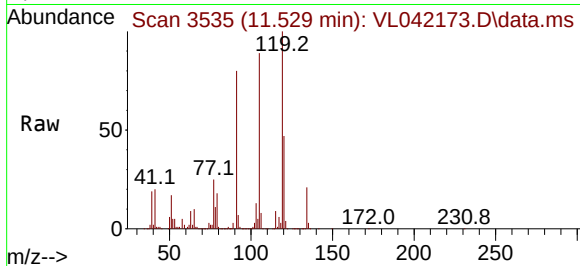




#65  
tert-Butylbenzene  
Concen: 2.180 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

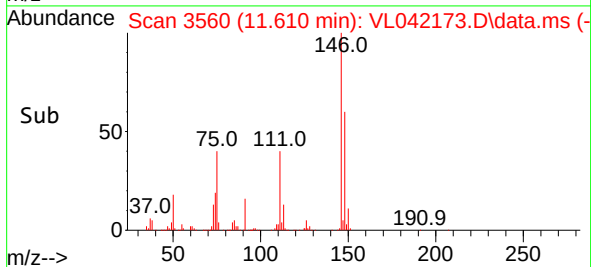
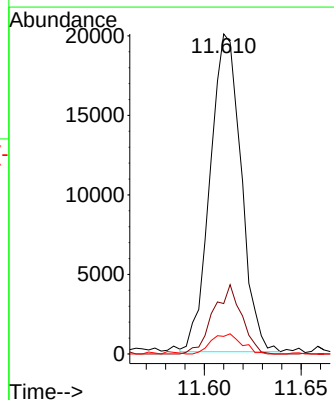
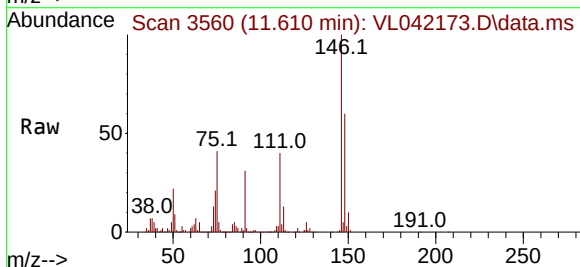
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

Tgt Ion:119 Resp: 216336  
Ion Ratio Lower Upper  
119 100  
91 81.5 66.0 99.0  
134 20.2 16.7 25.1

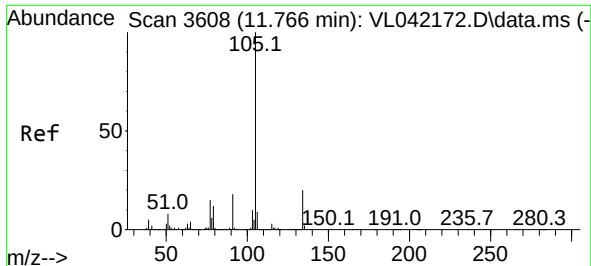


#66  
Benzyl Chloride  
Concen: 2.116 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 22272  
Ion Ratio Lower Upper  
91 100  
126 20.0 13.8 20.6  
128 6.5 4.5 6.7



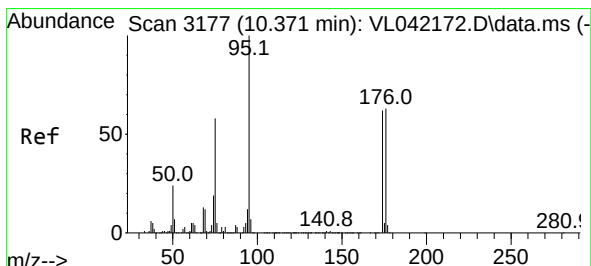
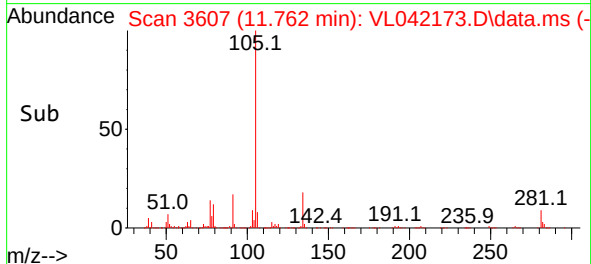
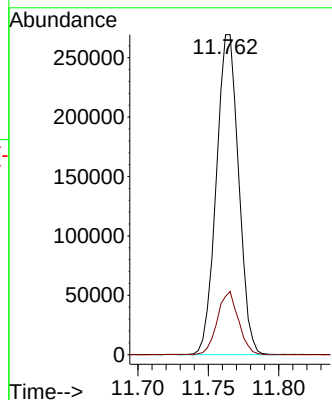
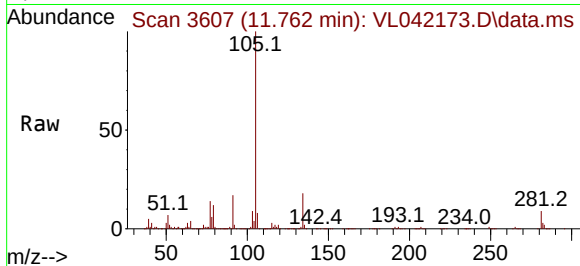




#67  
sec-Butylbenzene  
Concen: 2.156 ppbv  
RT: 11.762 min Scan# 3607  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

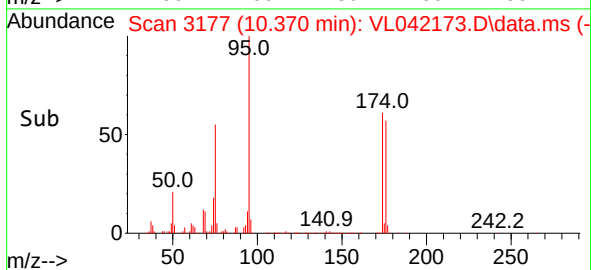
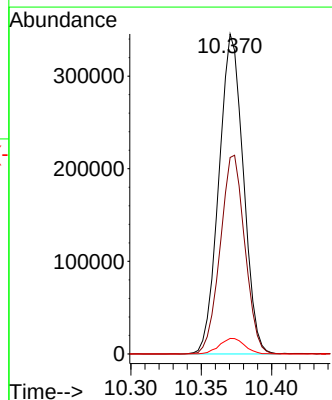
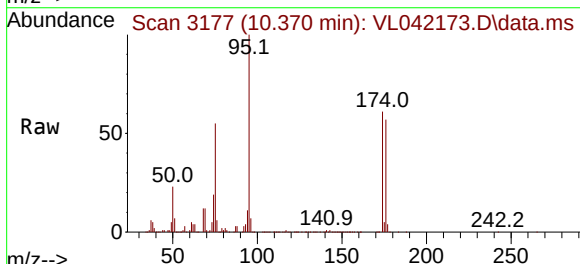
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

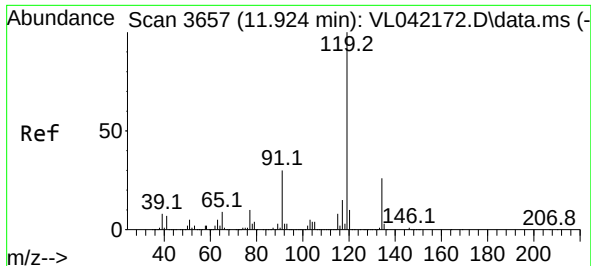
Tgt Ion:105 Resp: 297381  
Ion Ratio Lower Upper  
105 100  
134 18.8 15.5 23.3



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.077 ppbv  
RT: 10.370 min Scan# 3177  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 95 Resp: 417532  
Ion Ratio Lower Upper  
95 100  
174 62.6 50.6 76.0  
175 5.0 3.8 5.6

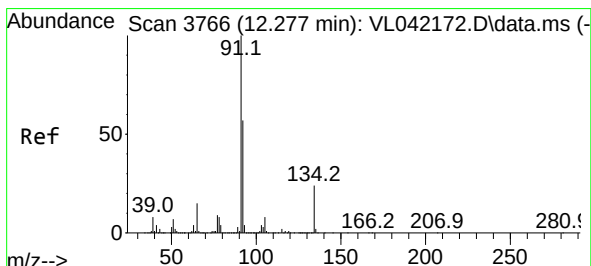
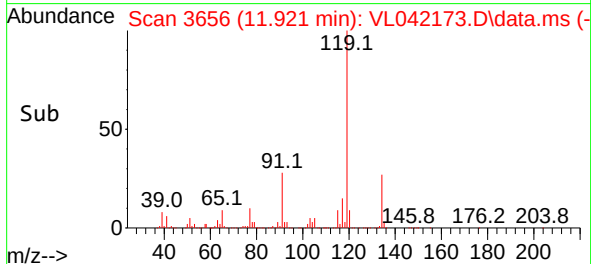
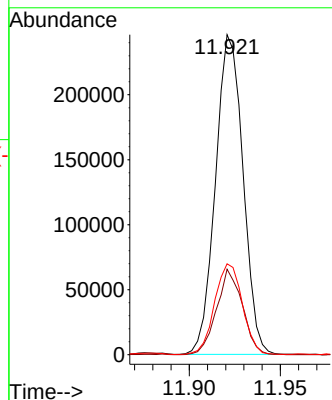
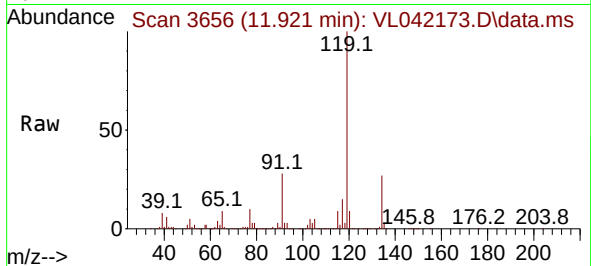




#69  
p-Isopropyltoluene  
Concen: 2.176 ppbv  
RT: 11.921 min Scan# 30  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

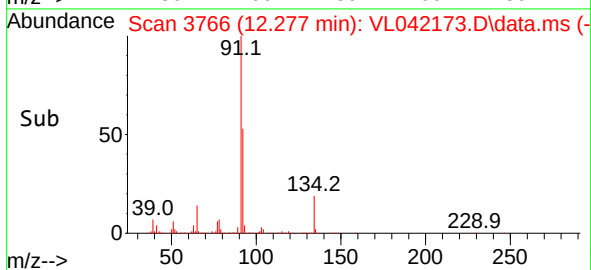
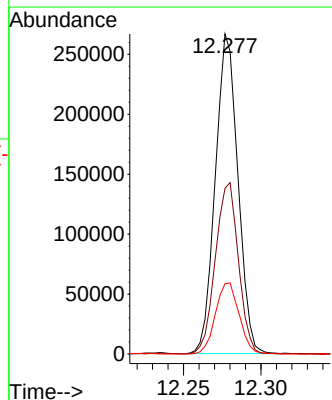
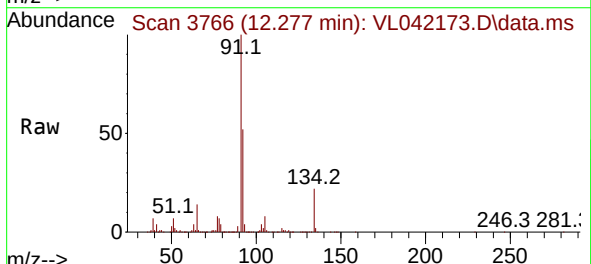
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

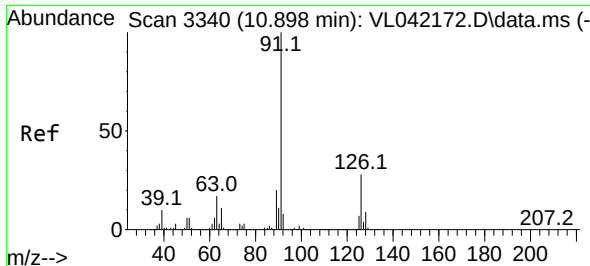
Tgt Ion:119 Resp: 258357  
Ion Ratio Lower Upper  
119 100  
134 25.2 20.4 30.6  
91 29.5 23.7 35.5



#70  
n-Butylbenzene  
Concen: 2.228 ppbv  
RT: 12.277 min Scan# 3766  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 91 Resp: 270616  
Ion Ratio Lower Upper  
91 100  
92 55.1 44.9 67.3  
134 23.3 19.2 28.8

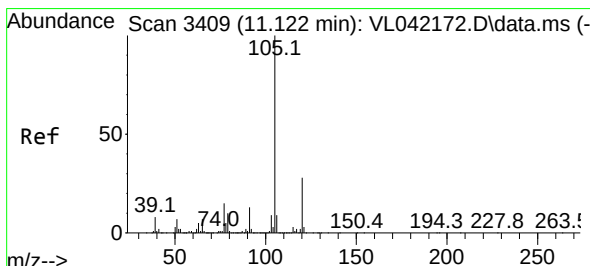
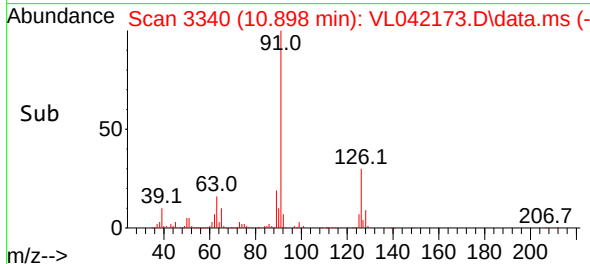
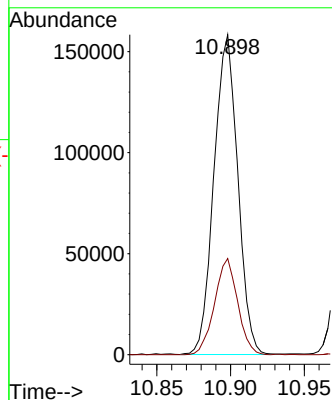
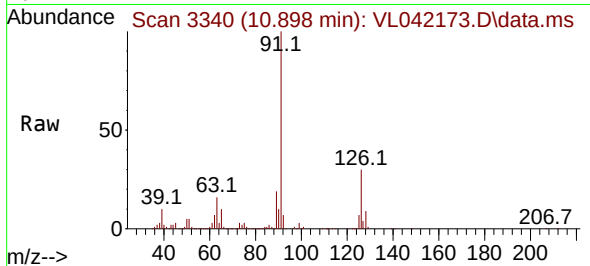




#71  
2-Chlorotoluene  
Concen: 2.132 ppbv  
RT: 10.898 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

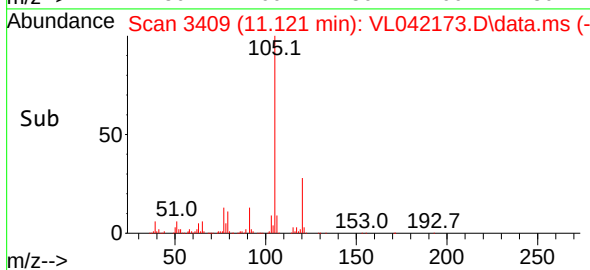
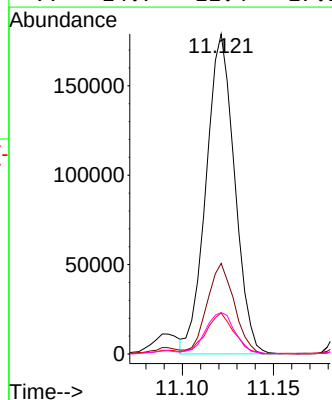
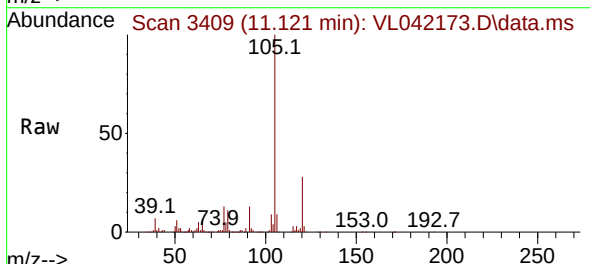
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

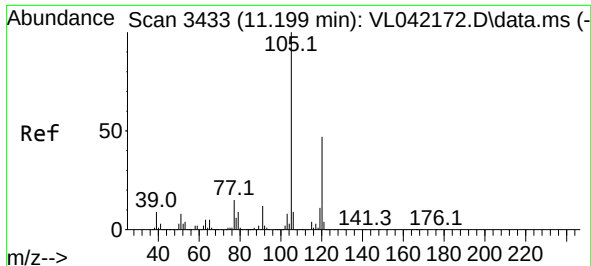
Tgt Ion: 91 Resp: 177487  
Ion Ratio Lower Upper  
91 100  
126 29.2 11.6 46.4



#72  
4-Ethyltoluene  
Concen: 2.179 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion: 105 Resp: 194660  
Ion Ratio Lower Upper  
105 100  
120 29.1 23.4 35.0  
91 13.7 10.3 15.5  
77 14.7 11.4 17.2

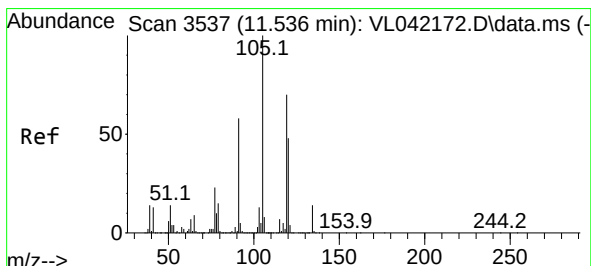
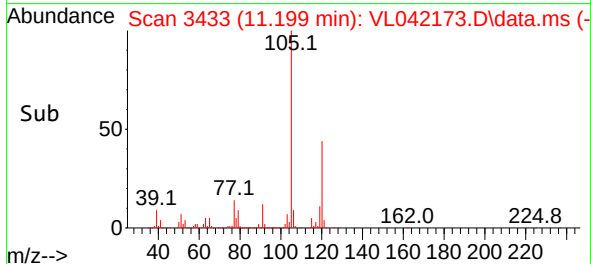
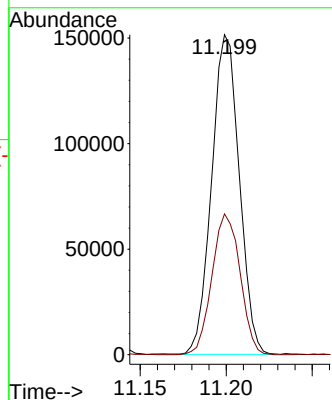
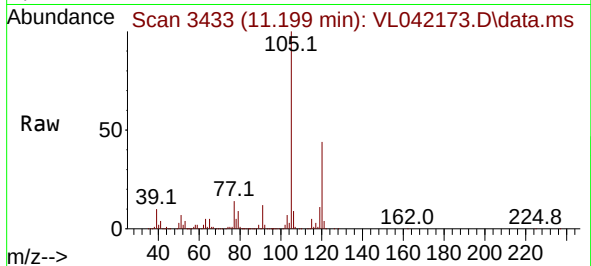




#73  
1,3,5-Trimethylbenzene  
Concen: 2.169 ppbv  
RT: 11.199 min Scan# 3433  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

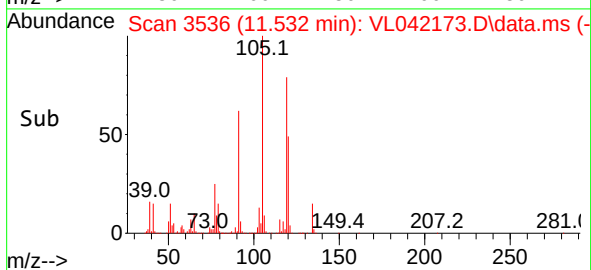
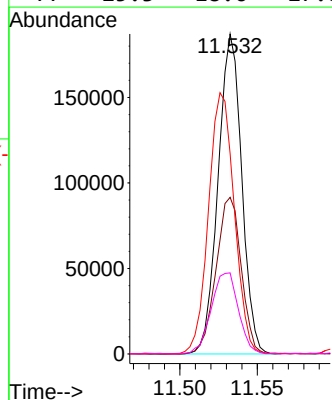
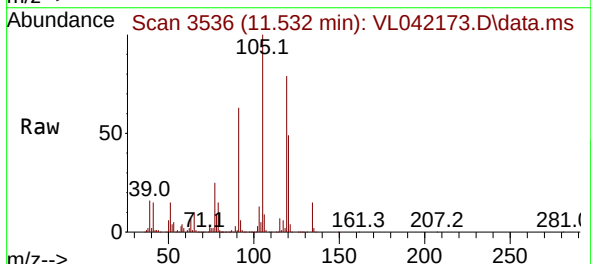
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

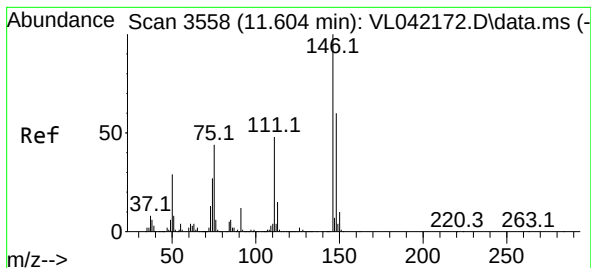
Tgt Ion:105 Resp: 169221  
Ion Ratio Lower Upper  
105 100  
120 44.0 37.4 56.0



#74  
1,2,4-Trimethylbenzene  
Concen: 2.207 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.003 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 198351  
Ion Ratio Lower Upper  
105 100  
120 49.0 38.6 58.0  
91 62.4 46.2 69.2  
77 25.3 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 2.175 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

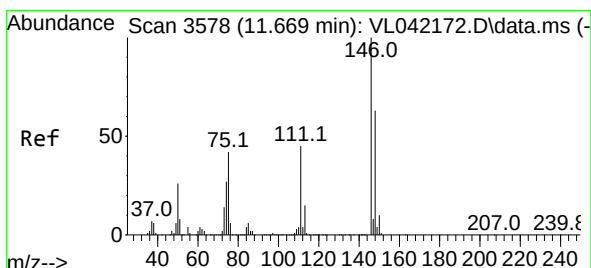
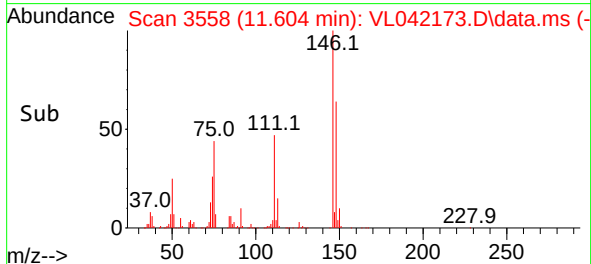
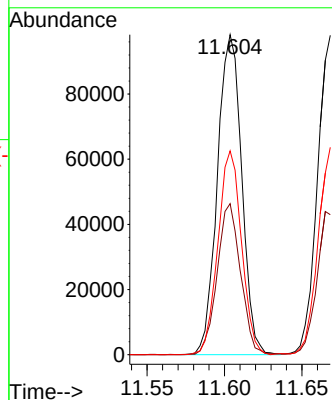
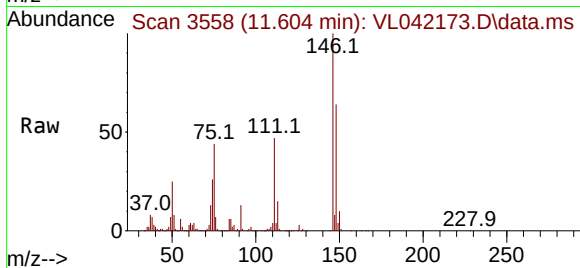
Tgt Ion:146 Resp: 107217

Ion Ratio Lower Upper

146 100

111 45.5 23.8 71.2

148 61.6 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 2.139 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

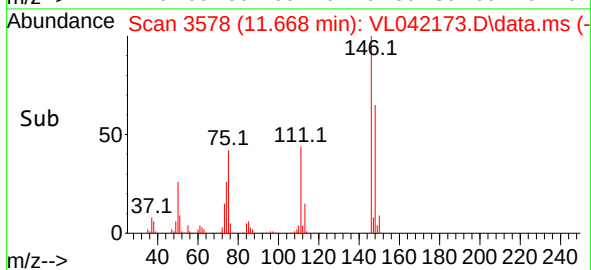
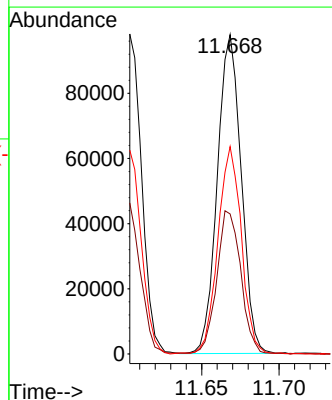
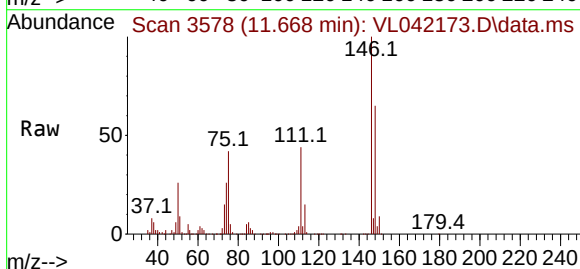
Tgt Ion:146 Resp: 104925

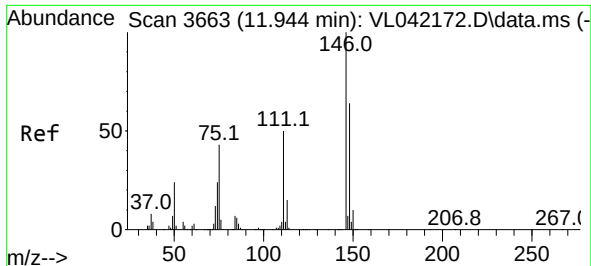
Ion Ratio Lower Upper

146 100

111 45.3 23.0 69.0

148 64.0 31.9 95.7

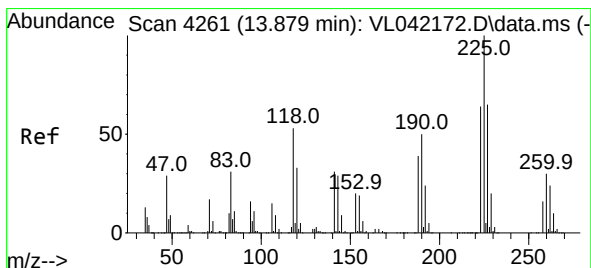
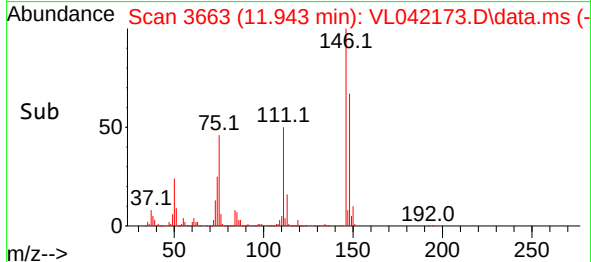
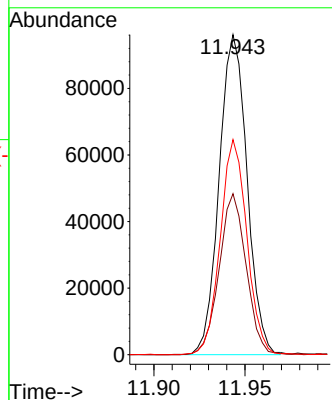
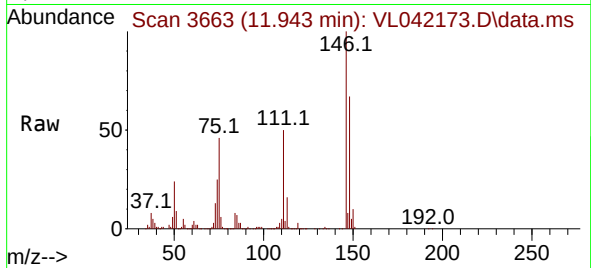




#77  
1,2-Dichlorobenzene  
Concen: 2.132 ppbv  
RT: 11.943 min Scan# 3663  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

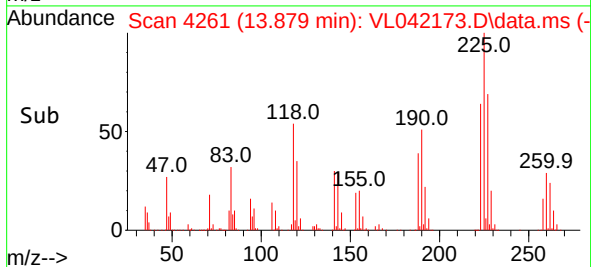
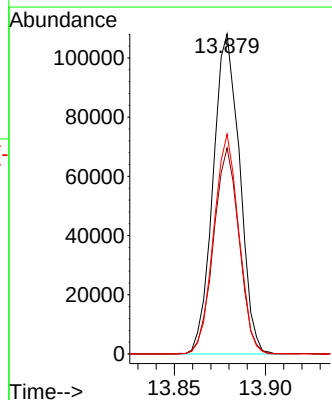
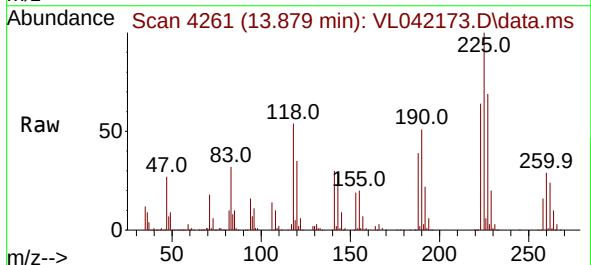
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

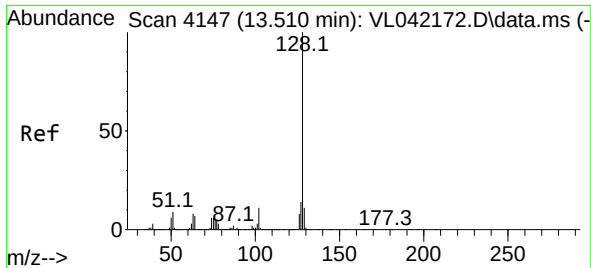
Tgt Ion:146 Resp: 102310  
Ion Ratio Lower Upper  
146 100  
111 48.8 24.8 74.3  
148 64.6 31.6 94.8



#78  
Hexachloro-1,3-Butadiene  
Concen: 2.242 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

Tgt Ion:225 Resp: 109539  
Ion Ratio Lower Upper  
225 100  
223 62.2 50.6 76.0  
227 64.9 51.2 76.8

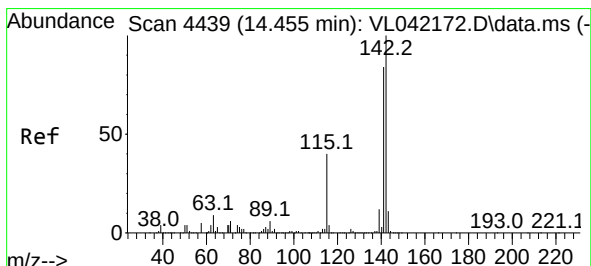
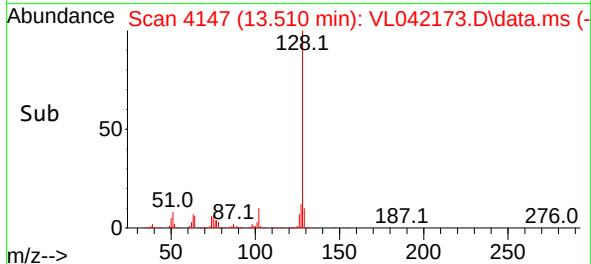
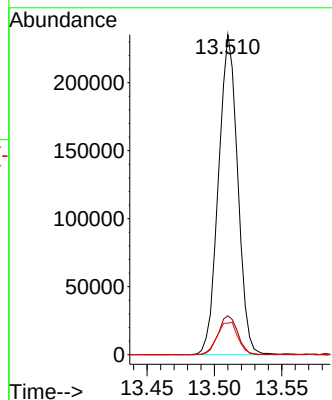
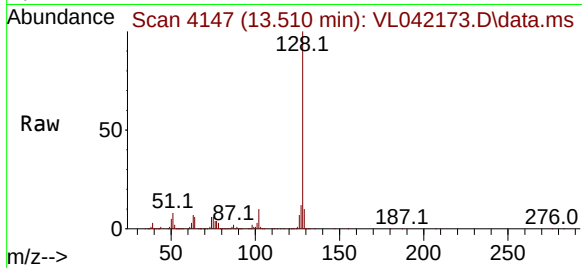




#79  
Naphthalene  
Concen: 2.375 ppbv  
RT: 13.510 min Scan# 4147  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

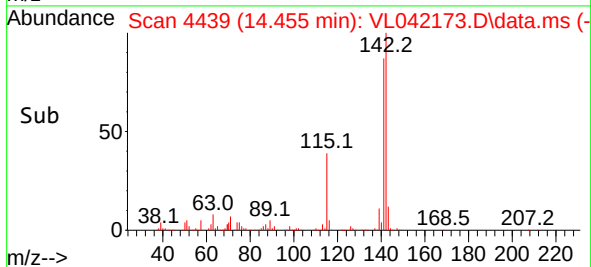
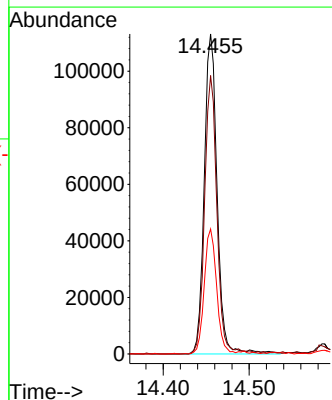
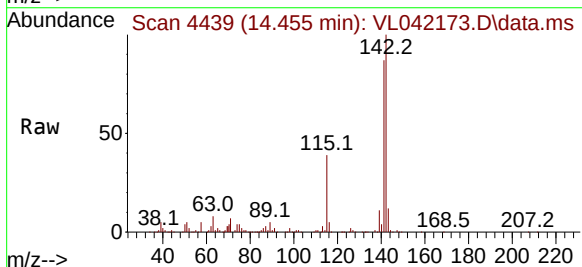
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

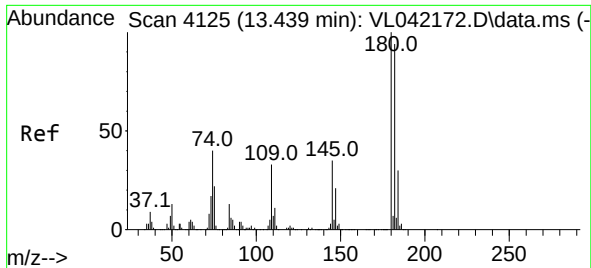
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 233451 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 12.1  | 10.8  | 16.2   |
| 129      | 9.9   | 9.0   | 13.4   |



#80  
Naphthalene, 2-methyl-  
Concen: 2.451 ppbv  
RT: 14.455 min Scan# 4439  
Delta R.T. -0.000 min  
Lab File: VL042173.D  
Acq: 27 Mar 2025 08:59

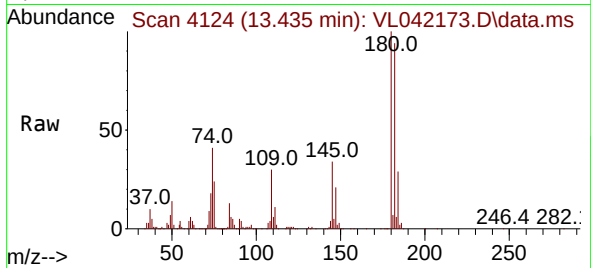
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 142   | Resp: | 117313 |
| Ion      | Ratio | Lower | Upper  |
| 142      | 100   |       |        |
| 141      | 83.5  | 66.3  | 99.5   |
| 115      | 38.5  | 31.6  | 47.4   |



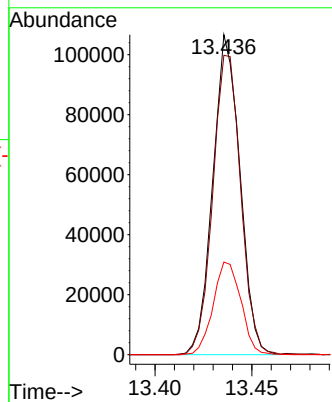
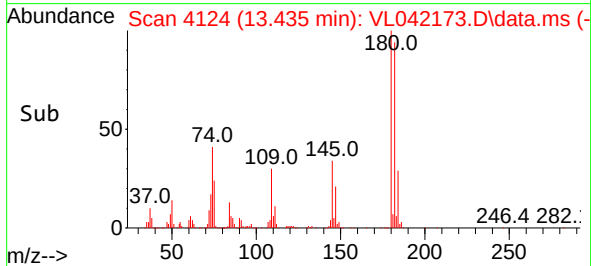


#81  
 1,2,4-Trichlorobenzene  
 Concen: 2.288 ppbv  
 RT: 13.435 min Scan# 41  
 Delta R.T. -0.003 min  
 Lab File: VL042173.D  
 Acq: 27 Mar 2025 08:59

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002



Tgt Ion:180 Resp: 103765  
 Ion Ratio Lower Upper  
 180 100  
 182 97.0 75.1 112.7  
 184 29.6 24.4 36.6





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

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 26 06:05:16 2022

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                    | 1.884 | 41  | 1465  | 0.116 | ppbv   | 99     |
| 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  | 935   | 0.943 | ppbv # | 1      |
| 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  | 2.033 | 96  | 10532 | 0.877 | ppbv   | 86     |
| 23) Vinyl Acetate             | 2.464 | 43  | 10644 | 0.983 | ppbv # | 85     |
| 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  | 10031 | 0.997 | ppbv # | 49     |
| 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  | 14387 | 0.640 | ppbv # | 31     |
| 44) 2,2,4-Trimethylpentane    | 4.632 | 57  | 90727 | 1.008 | ppbv   | 96     |
| 45) t-1,3-Dichloropropene     | 6.412 | 75  | 13431 | 0.555 | ppbv   | 97     |

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

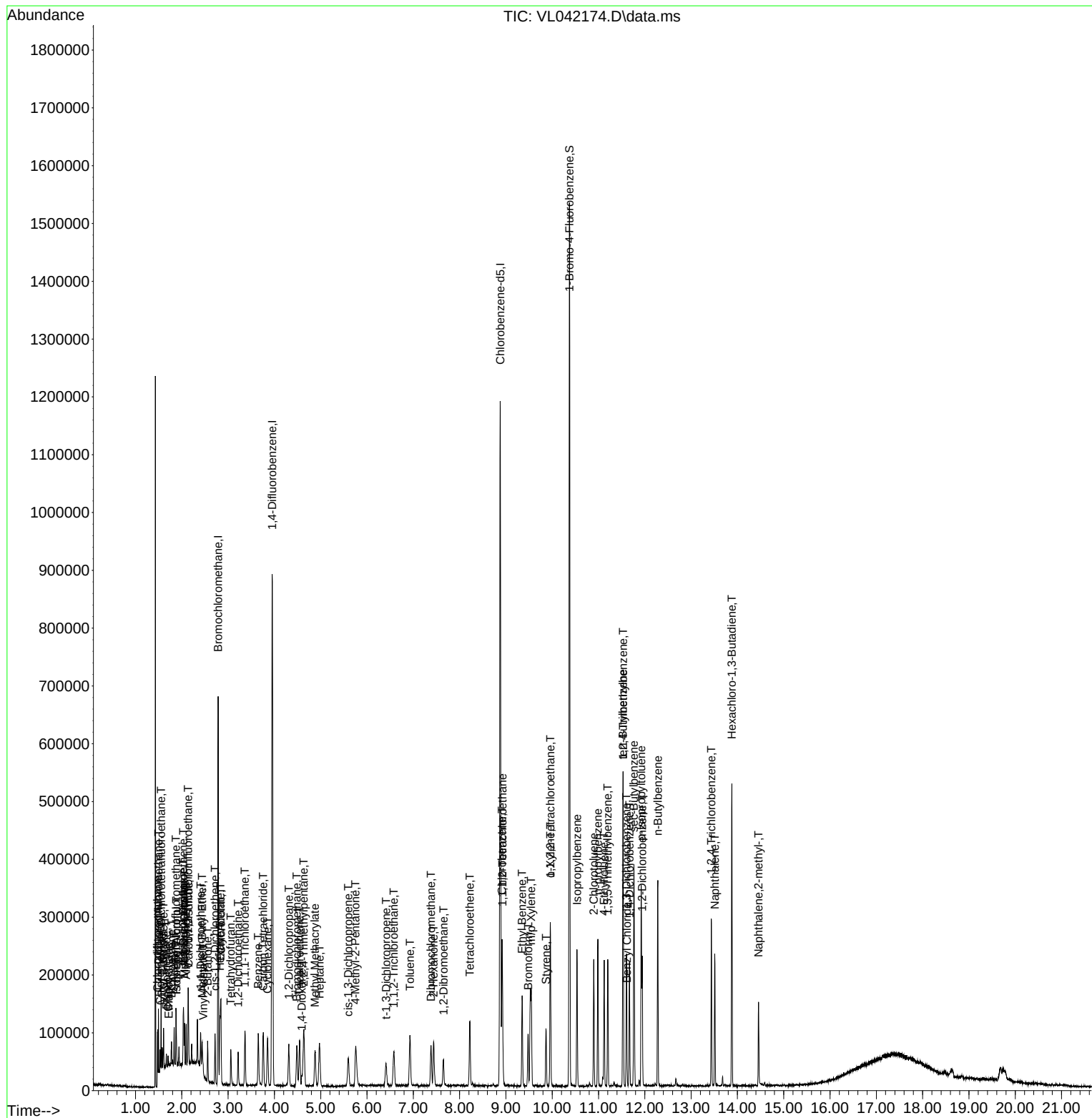
Quant Time: Mar 28 01:33:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 01:31:23 2025  
 Response via : Initial Calibration

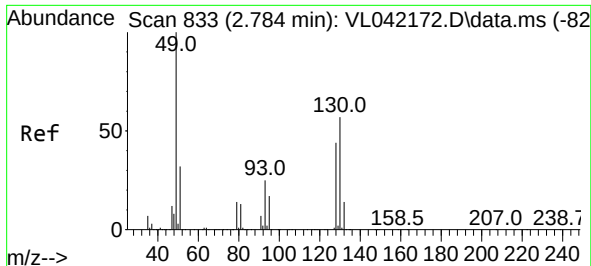
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 30063    | 1.014 | ppbv   | 93       |
| 47) 1,1,2-Trichloroethane     | 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   | 34358    | 0.556 | ppbv # | 39       |
| 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                | 9.545  | 91   | 73295    | 1.033 | ppbv # | 31       |
| 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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICC001

- 1
- 2
- 3
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- 18
- 19

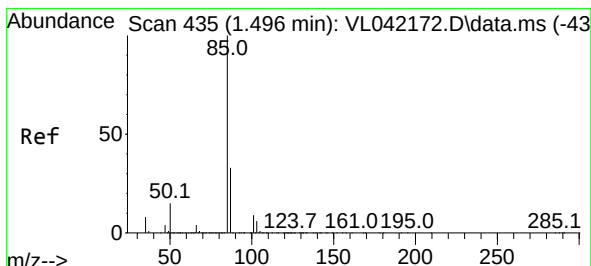
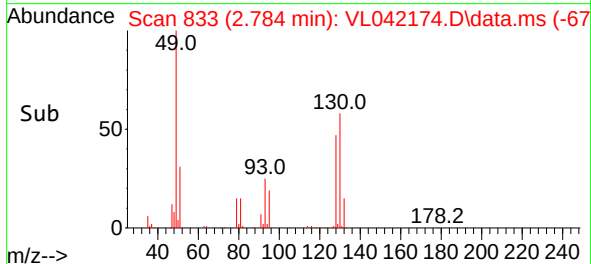
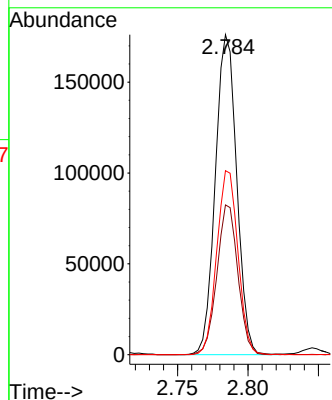
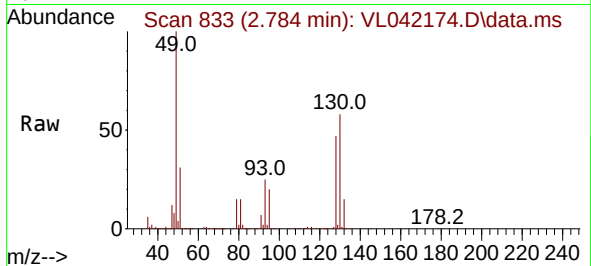




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

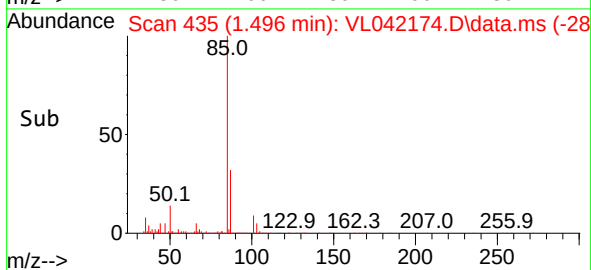
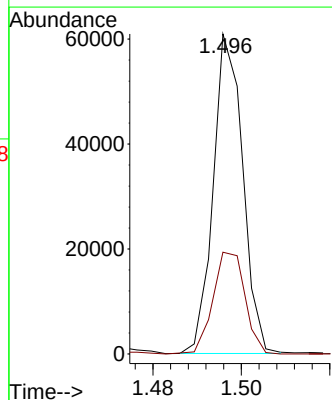
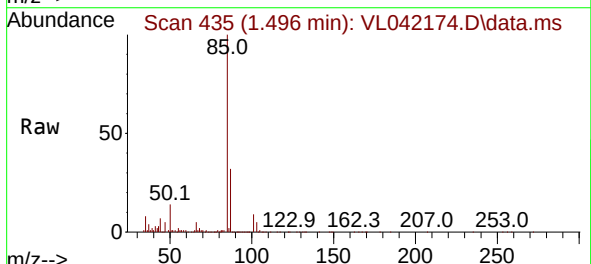
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MSVOA\_L  
ClientSampleId :  
VSTDICC001

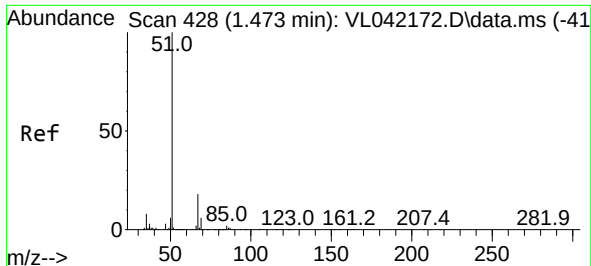
Tgt Ion: 49 Resp: 186244  
Ion Ratio Lower Upper  
49 100  
128 46.2 22.9 68.5  
130 57.0 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 1.026 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 85 Resp: 28203  
Ion Ratio Lower Upper  
85 100  
87 31.9 26.1 39.1

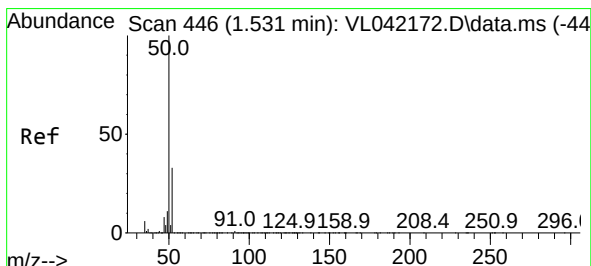
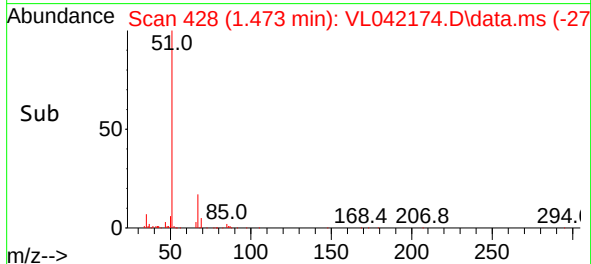
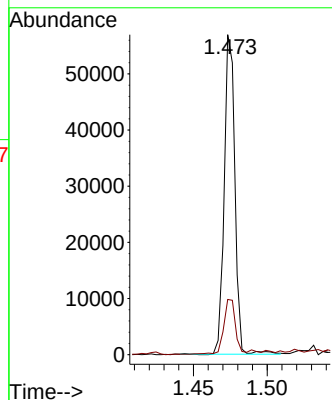
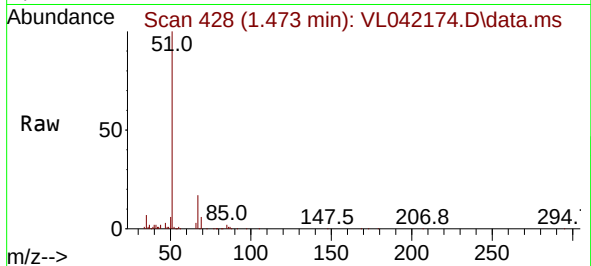




#3  
Chlorodifluoromethane  
Concen: 1.021 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

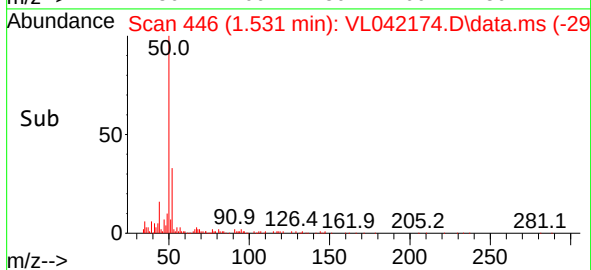
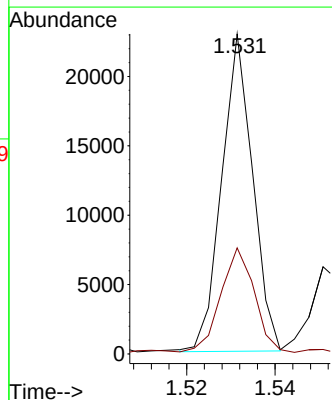
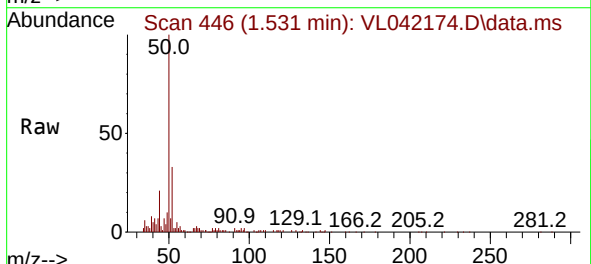
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

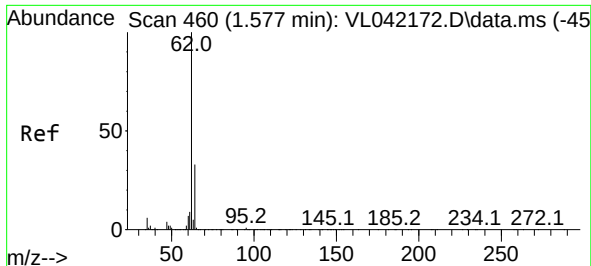
Tgt Ion: 51 Resp: 28693  
Ion Ratio Lower Upper  
51 100  
67 21.5 15.0 22.6



#4  
Chloromethane  
Concen: 0.989 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 50 Resp: 11111  
Ion Ratio Lower Upper  
50 100  
52 32.9 26.1 39.1

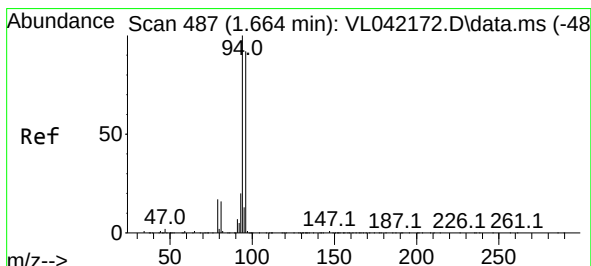
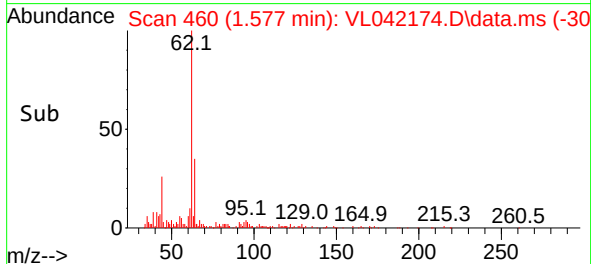
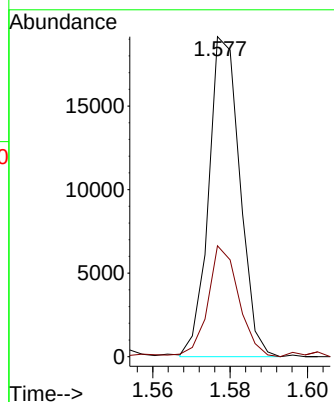
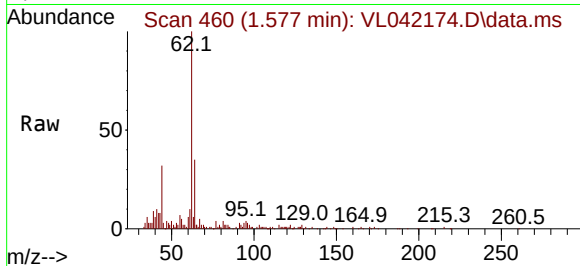




#5  
 Vinyl Chloride  
 Concen: 0.936 ppbv  
 RT: 1.577 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

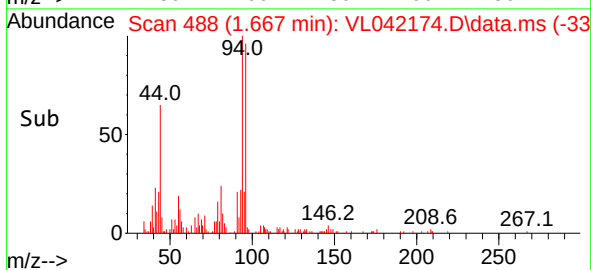
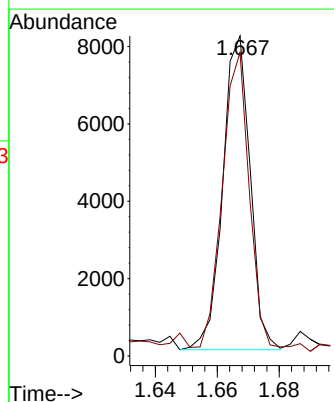
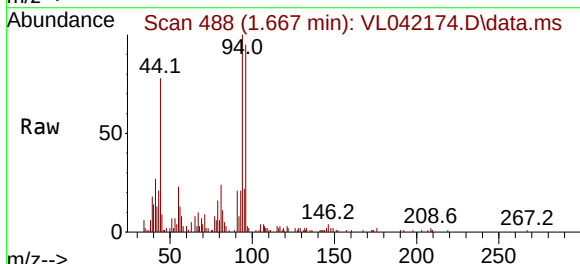
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

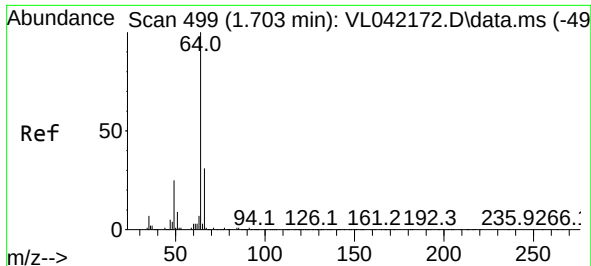
Tgt Ion: 62 Resp: 10723  
 Ion Ratio Lower Upper  
 62 100  
 64 34.6 26.6 40.0



#6  
 Bromomethane  
 Concen: 0.979 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. 0.003 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

Tgt Ion: 94 Resp: 4984  
 Ion Ratio Lower Upper  
 94 100  
 96 93.8 73.1 109.7

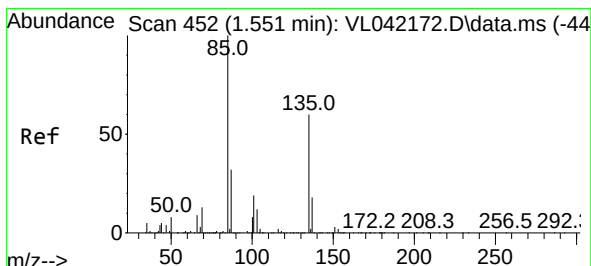
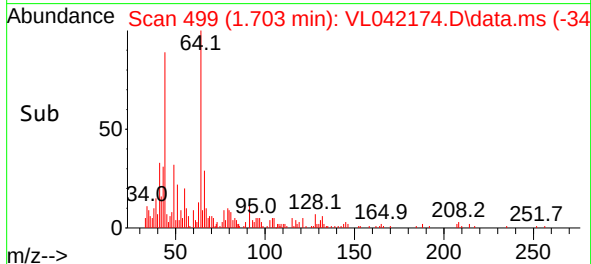
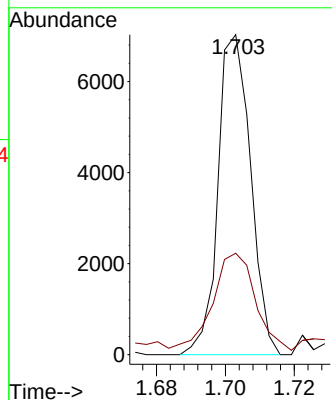
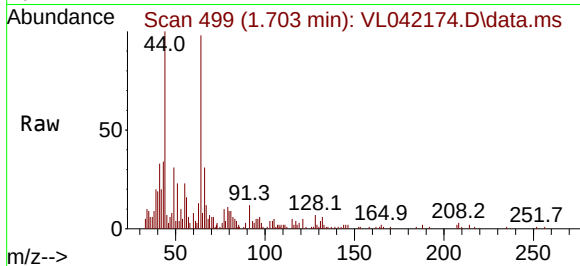




#7  
Chloroethane  
Concen: 1.025 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

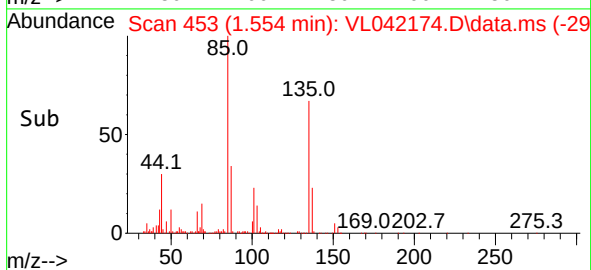
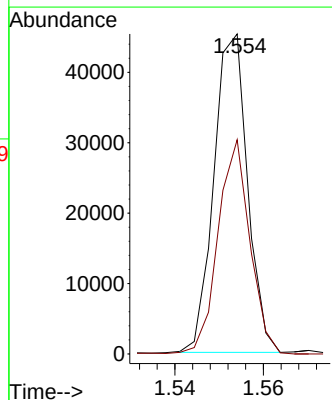
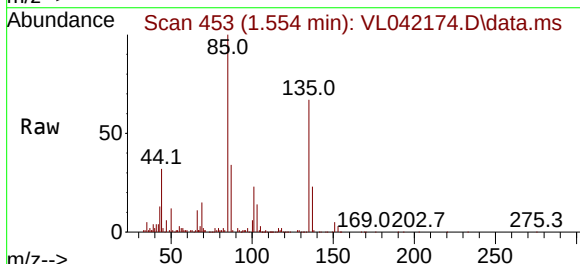
Instrument : MSVOA\_1  
ClientSampleId : VSTDIC001

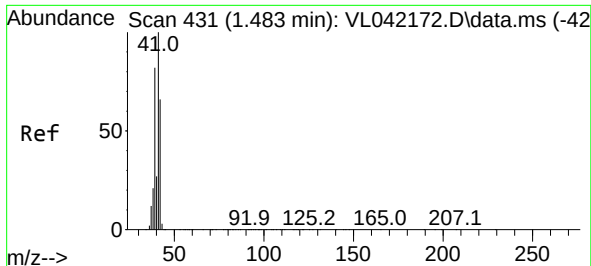
Tgt Ion: 64 Resp: 4622  
Ion Ratio Lower Upper  
64 100  
66 31.7 25.2 37.8



#8  
Dichlorotetrafluoroethane  
Concen: 1.020 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 85 Resp: 23886  
Ion Ratio Lower Upper  
85 100  
135 64.2 52.4 78.6

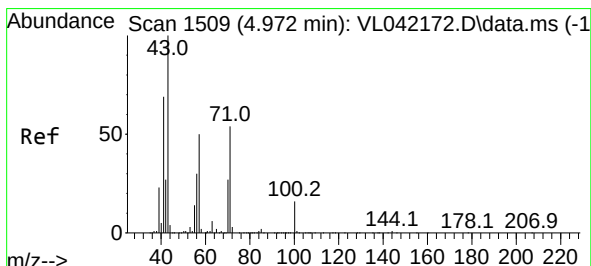
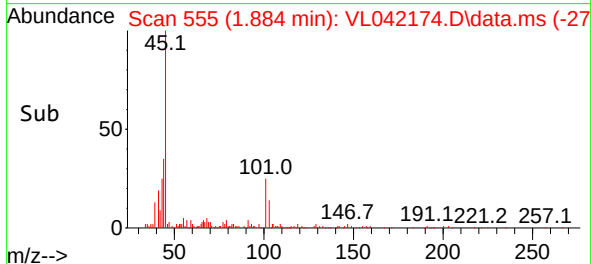
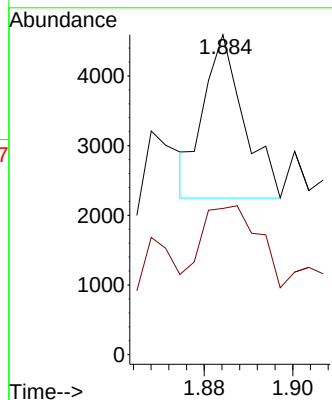
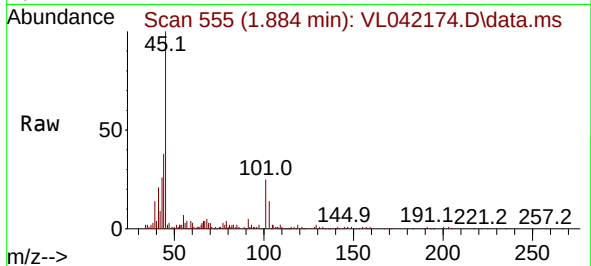




#9  
Propene  
Concen: 0.116 ppbv  
RT: 1.884 min Scan# 510  
Delta R.T. 0.401 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

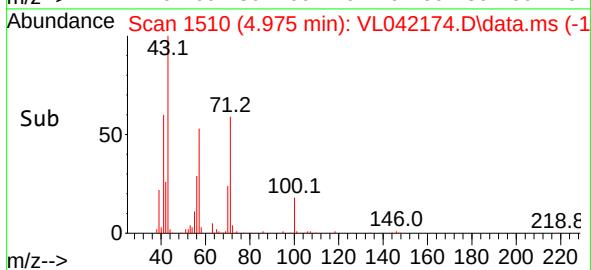
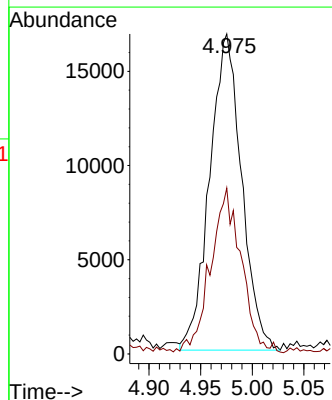
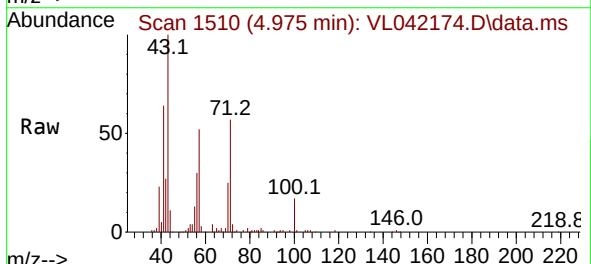
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

Tgt Ion: 41 Resp: 1465  
Ion Ratio Lower Upper  
41 100  
42 69.8 55.4 83.2

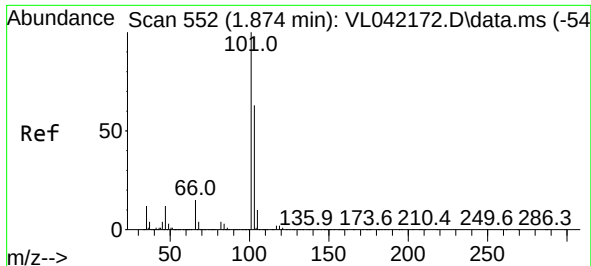


#10  
Heptane  
Concen: 1.055 ppbv  
RT: 4.975 min Scan# 1510  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 36132  
Ion Ratio Lower Upper  
43 100  
57 49.6 39.4 59.2



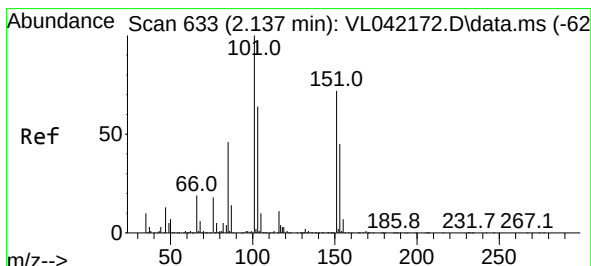
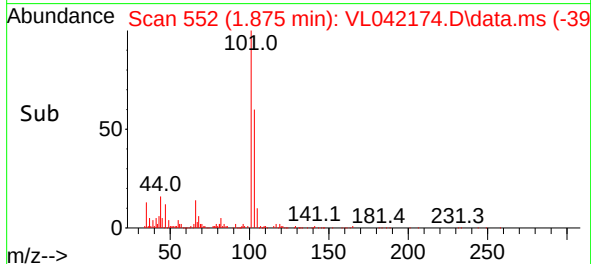
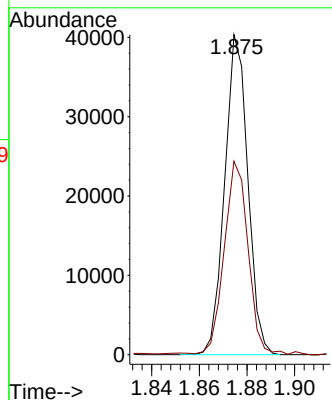
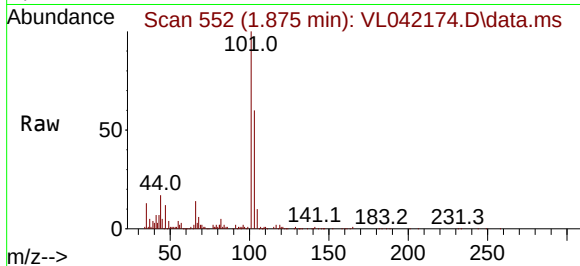




#11  
 Trichlorofluoromethane  
 Concen: 1.014 ppbv  
 RT: 1.875 min Scan# 511  
 Delta R.T. 0.000 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

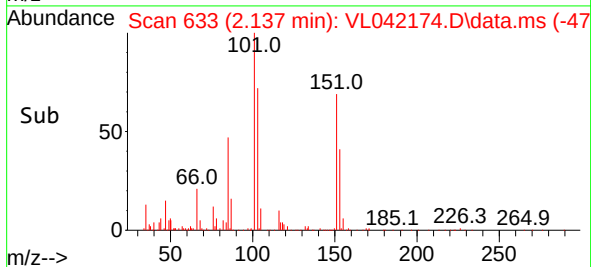
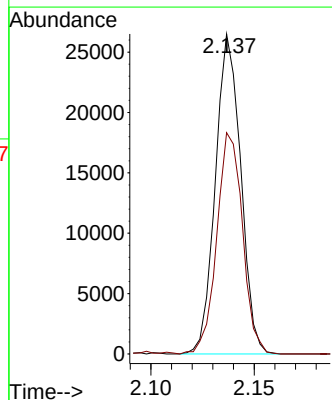
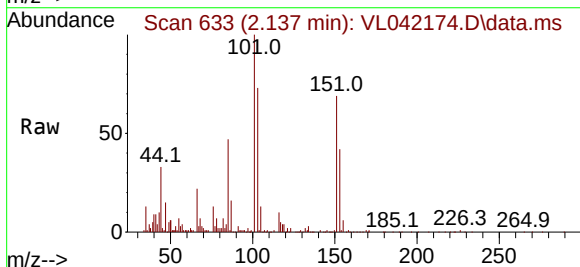
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

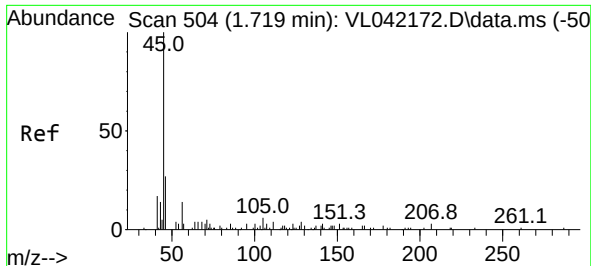
Tgt Ion:101 Resp: 27136  
 Ion Ratio Lower Upper  
 101 100  
 103 59.9 50.2 75.2



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 1.029 ppbv  
 RT: 2.137 min Scan# 633  
 Delta R.T. 0.000 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

Tgt Ion:101 Resp: 22629  
 Ion Ratio Lower Upper  
 101 100  
 151 70.3 57.1 85.7

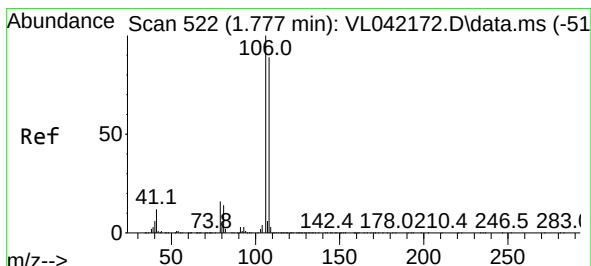
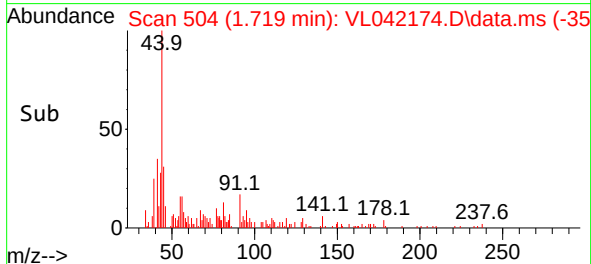
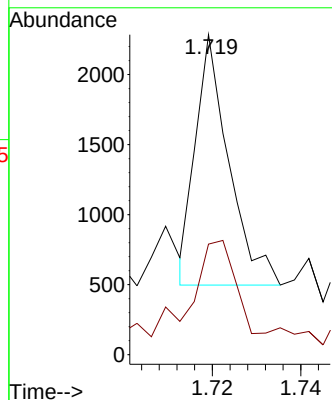
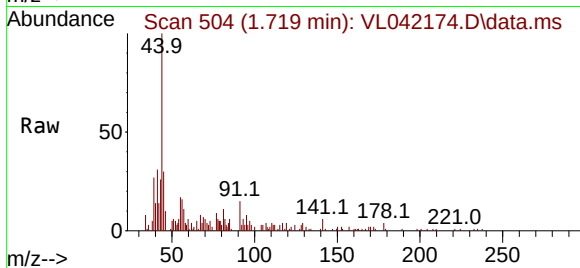




#13  
Ethanol  
Concen: 0.943 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

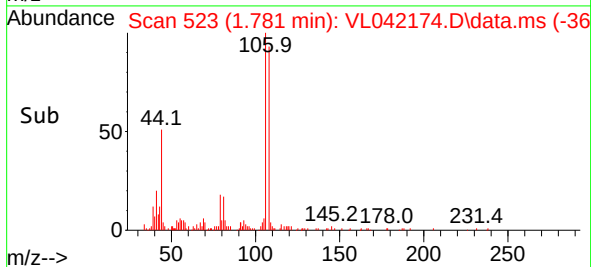
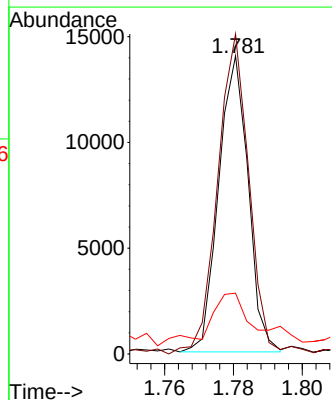
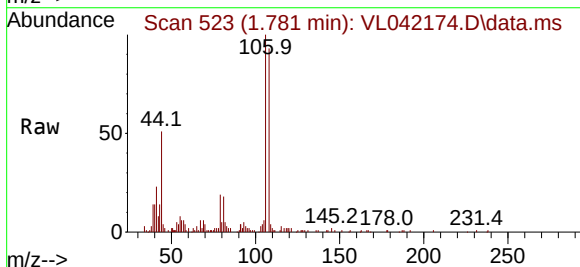
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

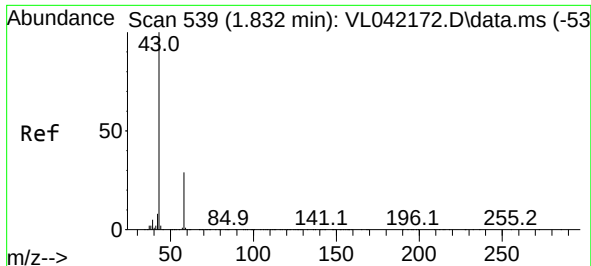
Tgt Ion: 45 Resp: 935  
Ion Ratio Lower Upper  
45 100  
46 126.3 20.2 80.8#



#14  
Bromoethene  
Concen: 0.989 ppbv  
RT: 1.781 min Scan# 523  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 108 Resp: 8330  
Ion Ratio Lower Upper  
108 100  
106 115.2 86.8 130.2  
79 57.0 15.0 22.6#

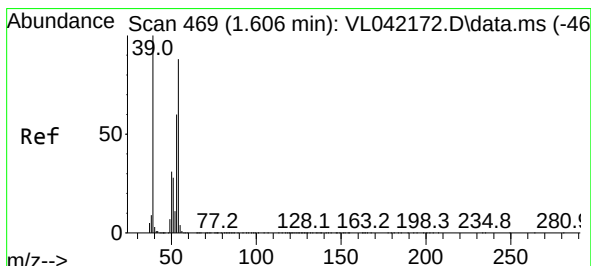
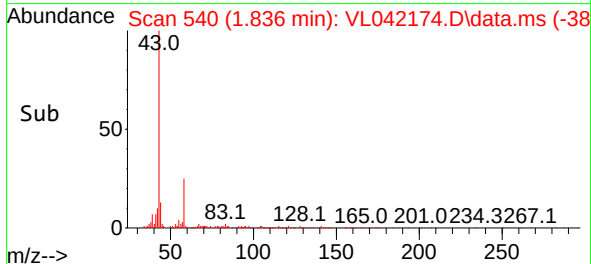
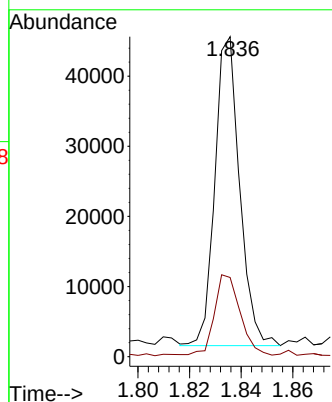
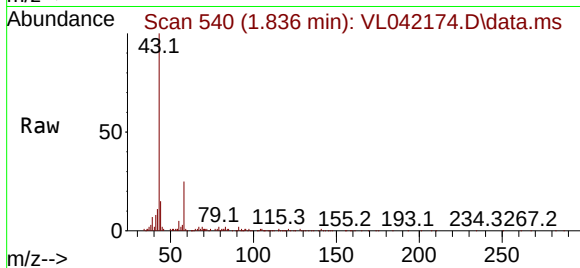




#15  
Acetone  
Concen: 1.125 ppbv  
RT: 1.836 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

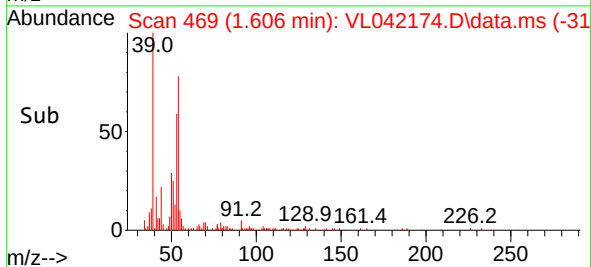
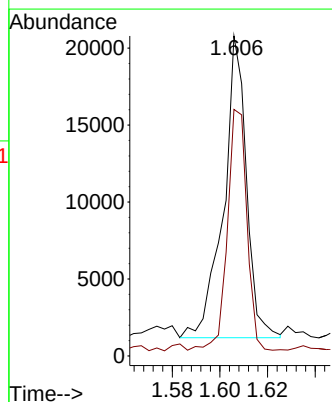
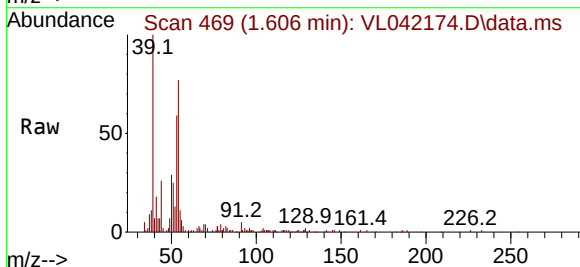
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

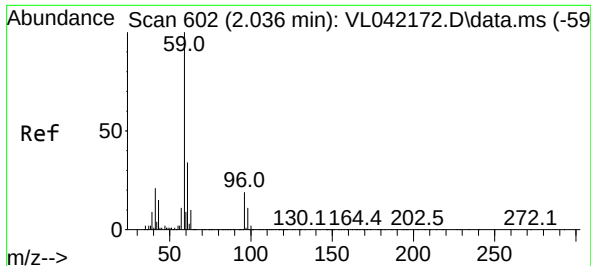
Tgt Ion: 43 Resp: 29294  
Ion Ratio Lower Upper  
43 100  
58 31.6 23.2 34.8



#16  
1,3-Butadiene  
Concen: 1.121 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 39 Resp: 13133  
Ion Ratio Lower Upper  
39 100  
54 73.5 60.7 91.1





#17

tert-Butyl alcohol

Concen: 1.033 ppbv

RT: 2.040 min Scan# 60

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_1

ClientSampleId :

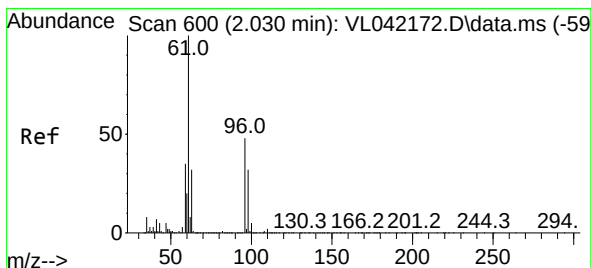
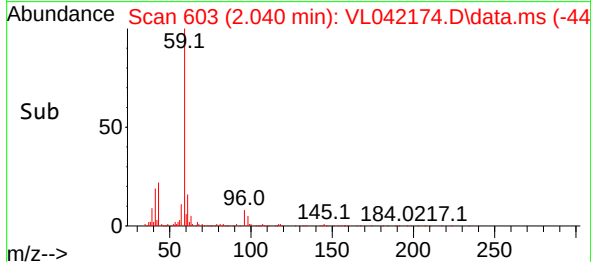
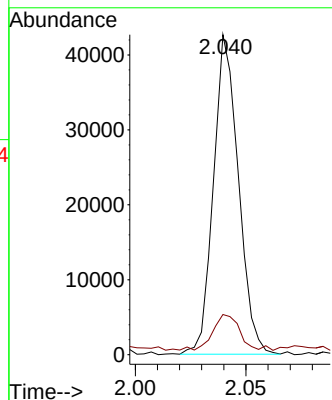
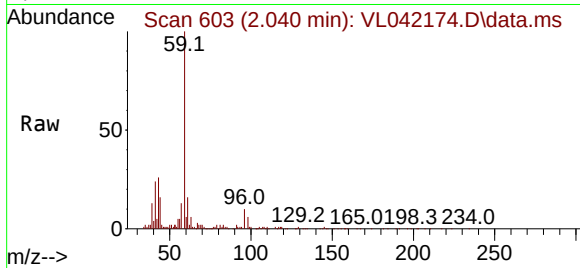
VSTDIC001

Tgt Ion: 59 Resp: 33500

Ion Ratio Lower Upper

59 100

57 12.3 8.9 13.3



#18

1,1-Dichloroethene

Concen: 1.024 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

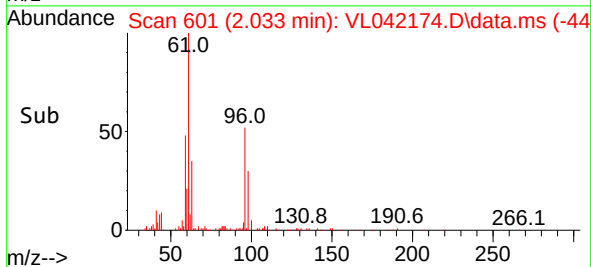
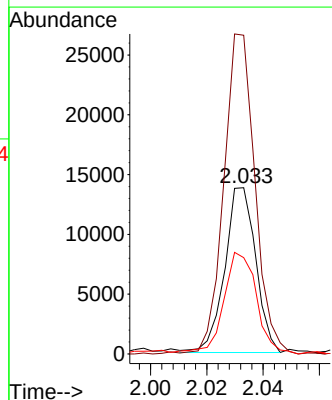
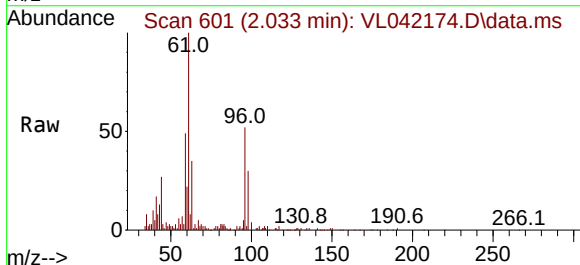
Tgt Ion: 96 Resp: 10532

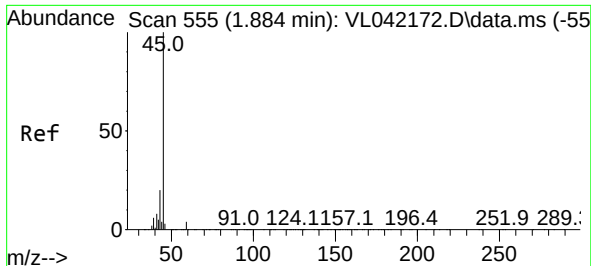
Ion Ratio Lower Upper

96 100

61 192.9 167.6 251.4

98 56.7 53.5 80.3

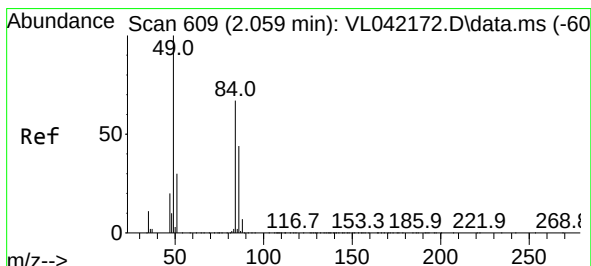
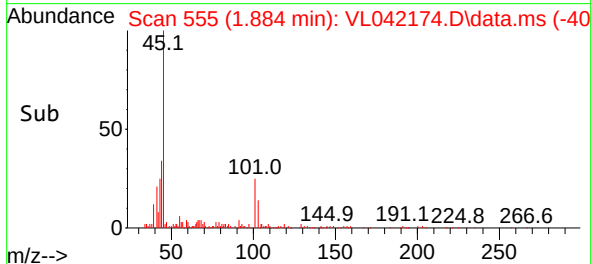
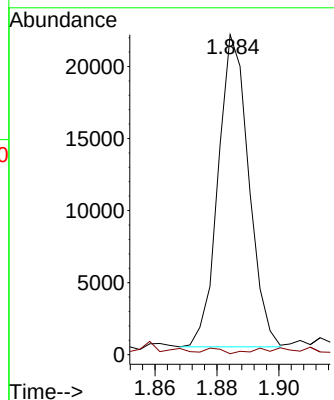
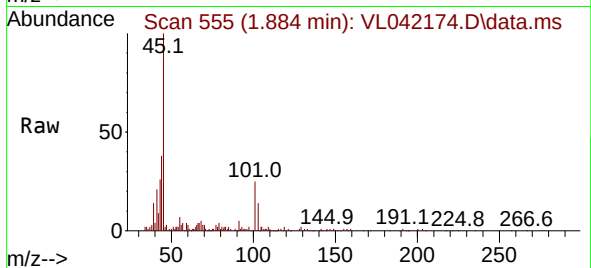




#19  
Isopropyl Alcohol  
Concen: 1.014 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

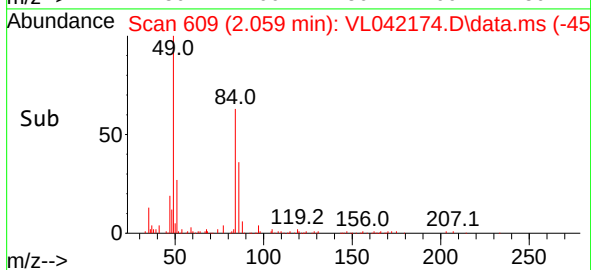
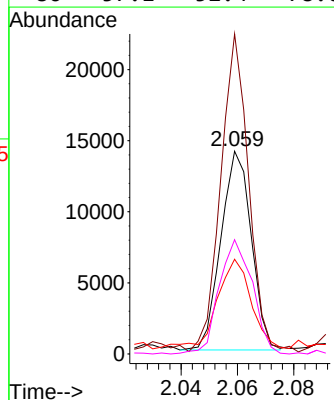
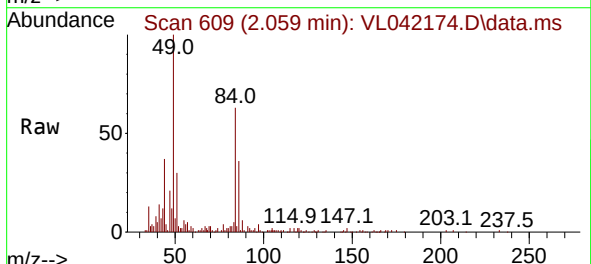
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

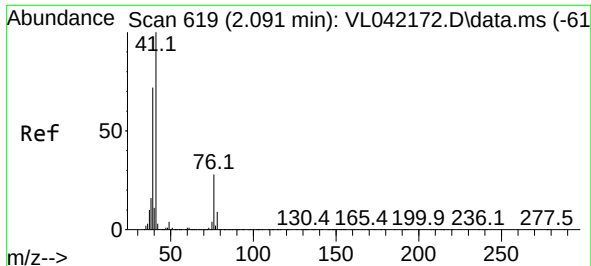
Tgt Ion: 45 Resp: 14903  
Ion Ratio Lower Upper  
45 100  
58 4.9 36.9 55.3#



#20  
Methylene Chloride  
Concen: 1.080 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 10481  
Ion Ratio Lower Upper  
84 100  
49 158.3 120.2 180.4  
51 44.3 37.4 56.0  
86 57.1 52.4 78.6

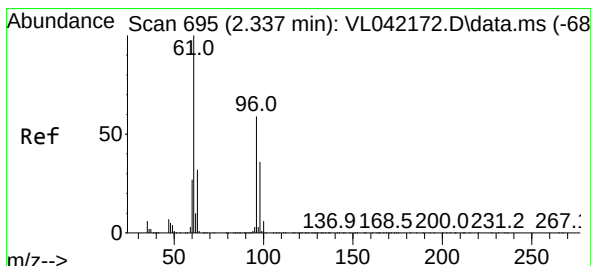
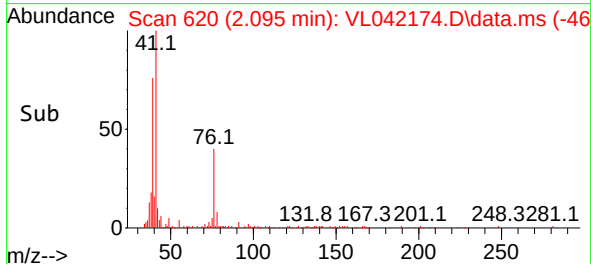
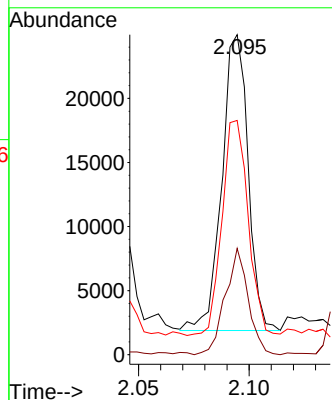
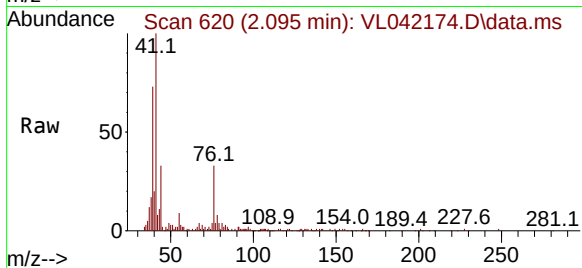




#21  
Allyl Chloride  
Concen: 1.036 ppbv  
RT: 2.095 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

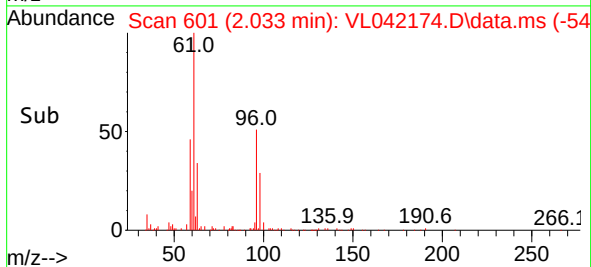
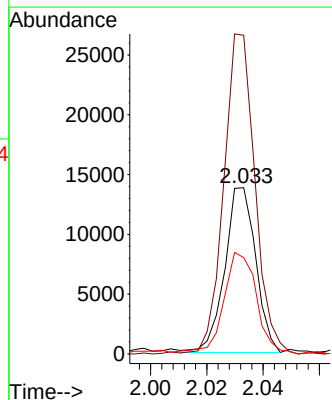
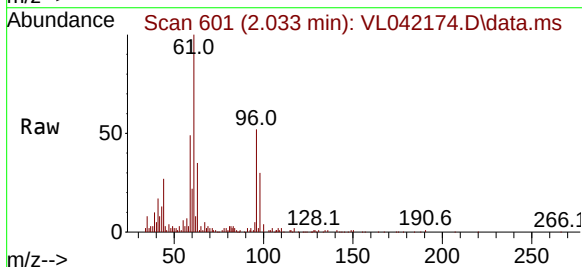
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

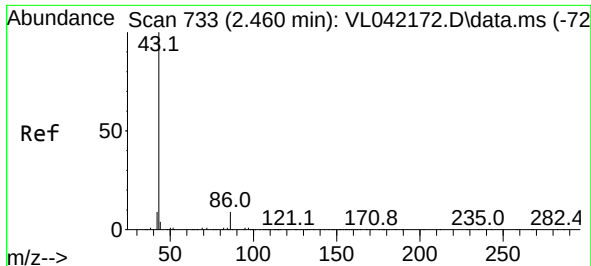
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 19039 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 30.5  | 24.1  | 36.1  |
| 39       | 77.8  | 61.1  | 91.7  |



#22  
trans-1,2-Dichloroethene  
Concen: 0.877 ppbv  
RT: 2.033 min Scan# 601  
Delta R.T. -0.304 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 10532 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 192.9 | 136.6 | 204.8 |
| 98       | 56.7  | 49.4  | 74.2  |

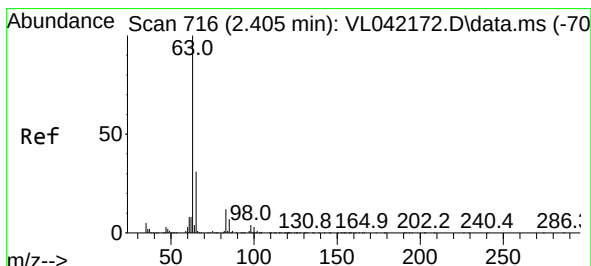
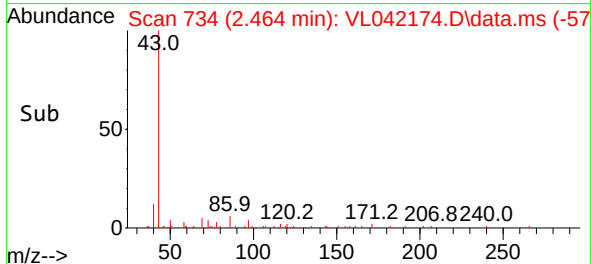
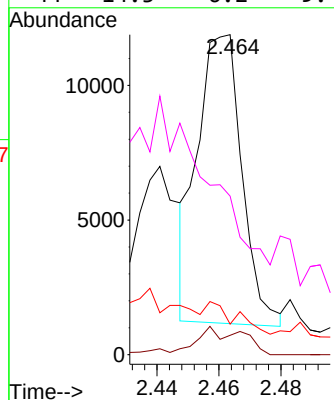
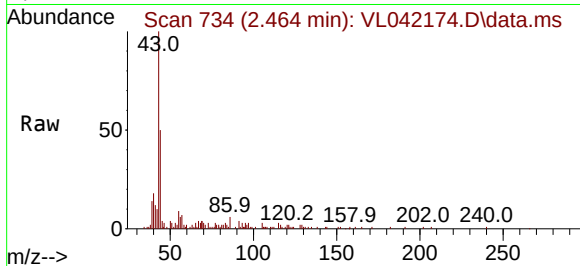




#23  
 Vinyl Acetate  
 Concen: 0.983 ppbv  
 RT: 2.464 min Scan# 716  
 Delta R.T. 0.003 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

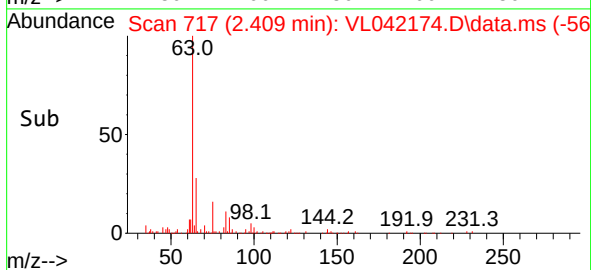
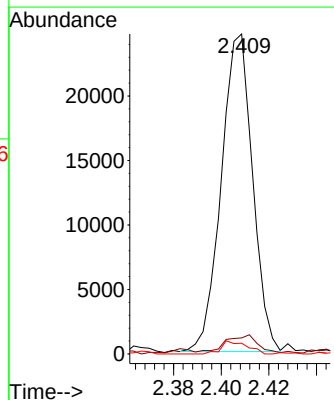
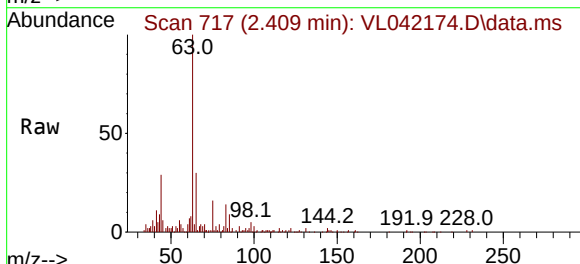
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

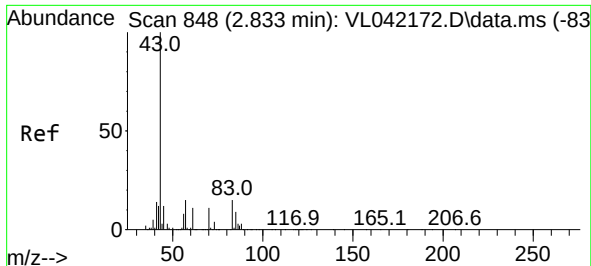
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 10644 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 6.9   | 5.5   | 8.3   |
| 42       | 2.4   | 8.6   | 13.0# |
| 44       | 14.3  | 6.2   | 9.4#  |



#24  
 1,1-Dichloroethane  
 Concen: 1.022 ppbv  
 RT: 2.409 min Scan# 717  
 Delta R.T. 0.003 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 22505 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 4.6   | 2.3   | 6.8   |
| 100      | 3.4   | 1.6   | 4.7   |

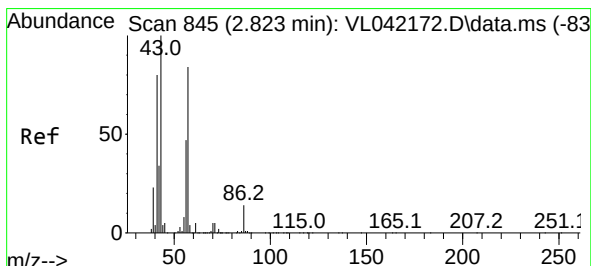
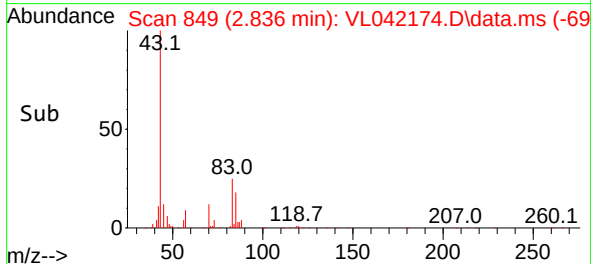
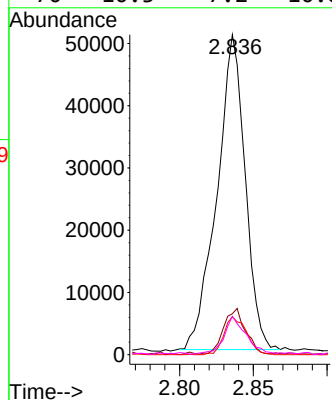
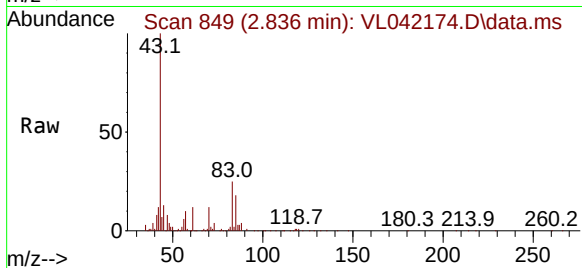




#25  
Ethyl Acetate  
Concen: 0.997 ppbv  
RT: 2.836 min Scan# 848  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

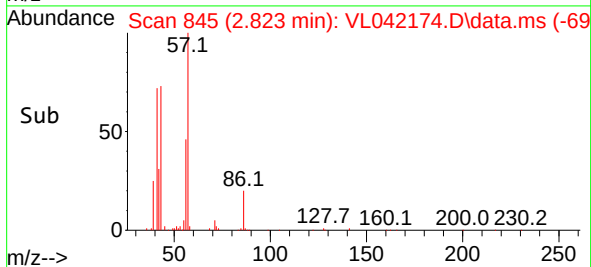
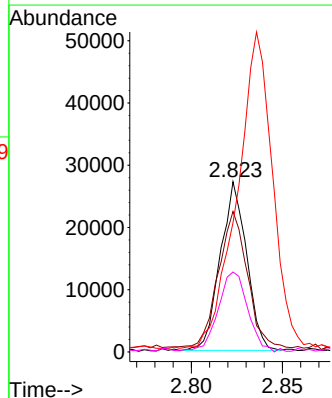
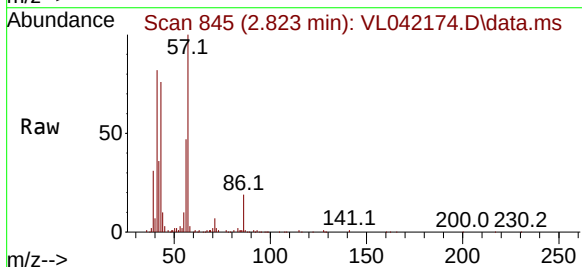
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 67402 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 12.3     | 8.2 12.2#   |
| 61 9.6      | 7.3 10.9    |
| 70 10.3     | 7.2 10.8    |

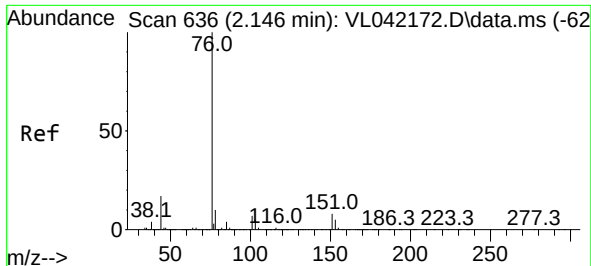


#26  
Hexane  
Concen: 1.043 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

|             |             |
|-------------|-------------|
| Tgt Ion: 57 | Resp: 27223 |
| Ion Ratio   | Lower Upper |
| 57 100      |             |
| 41 93.5     | 76.6 114.8  |
| 43 256.9    | 207.8 311.8 |
| 56 53.3     | 43.6 65.4   |



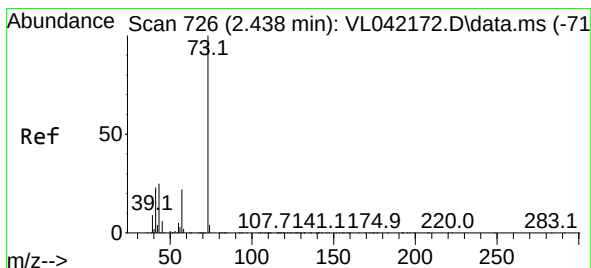
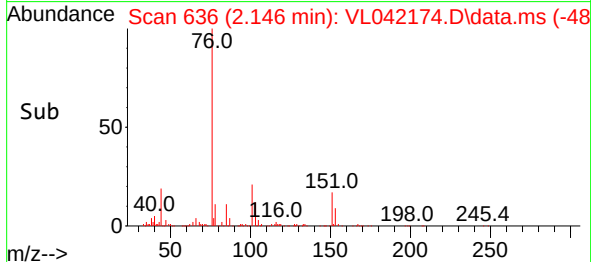
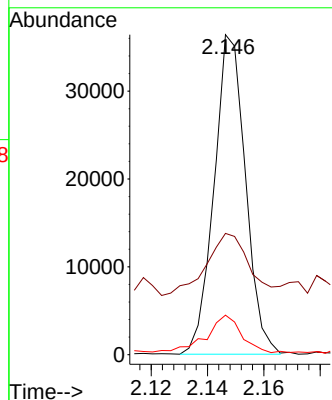
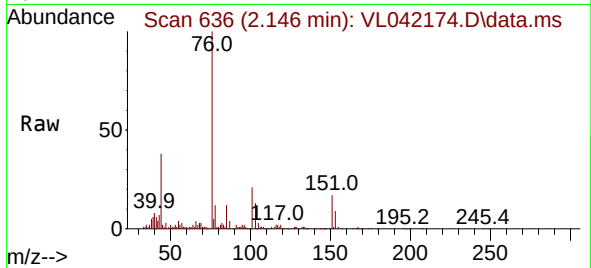




#27  
Carbon Disulfide  
Concen: 1.006 ppbv  
RT: 2.146 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

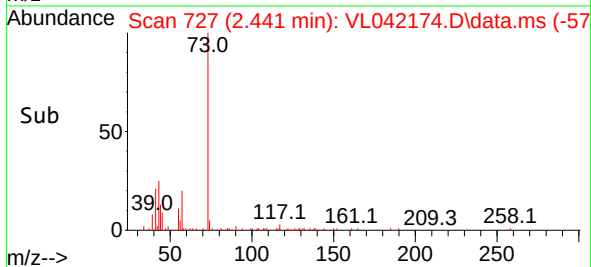
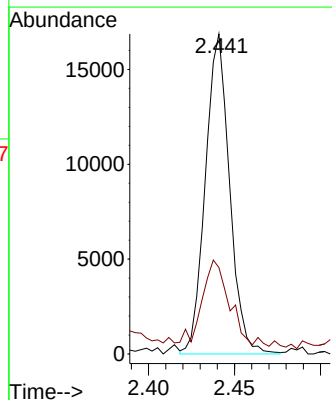
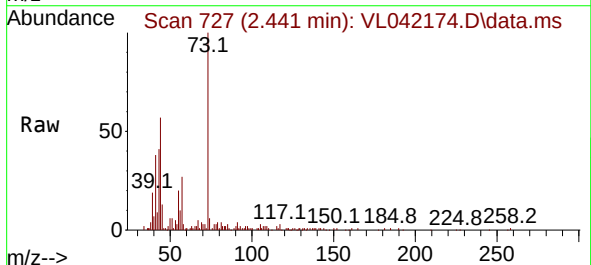
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

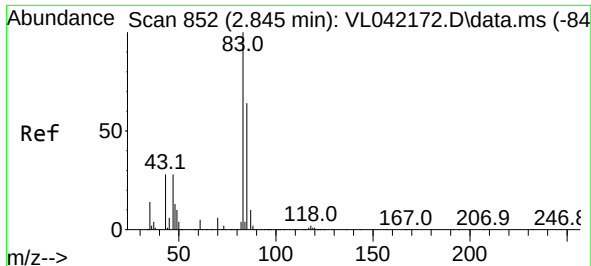
Tgt Ion: 76 Resp: 28167  
Ion Ratio Lower Upper  
76 100  
44 54.6 14.7 22.1#  
78 15.0 9.3 13.9#



#28  
Methyl tert-Butyl Ether  
Concen: 1.015 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 73 Resp: 16501  
Ion Ratio Lower Upper  
73 100  
57 28.0 20.5 30.7





#29

Chloroform

Concen: 1.008 ppbv

RT: 2.845 min Scan# 852

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_L

ClientSampleId :

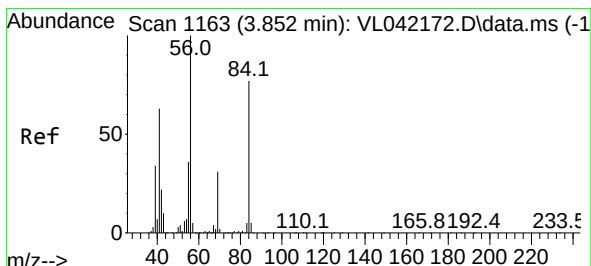
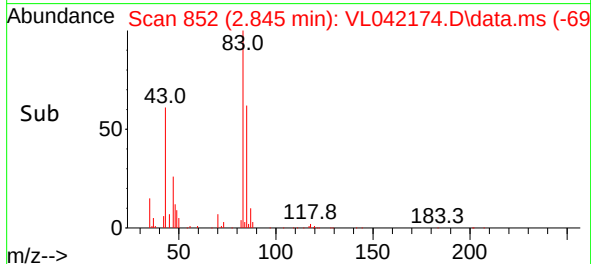
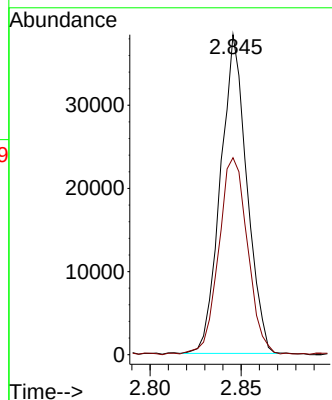
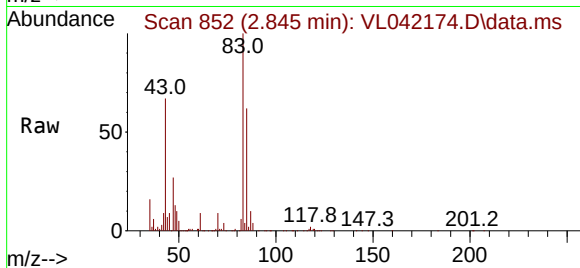
VSTDIC001

Tgt Ion: 83 Resp: 38516

Ion Ratio Lower Upper

83 100

85 61.6 51.4 77.2



#30

Cyclohexane

Concen: 1.016 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

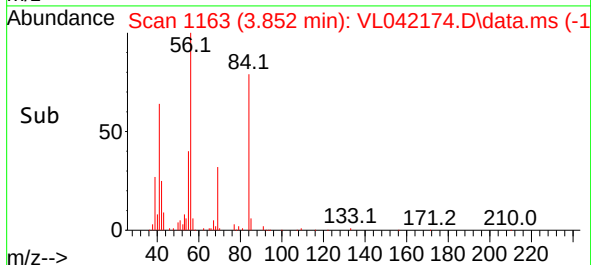
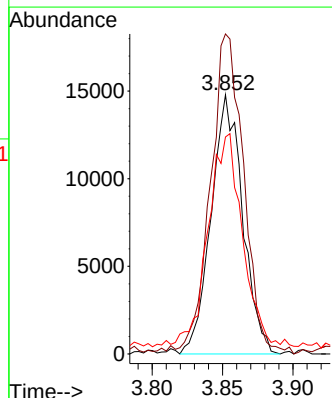
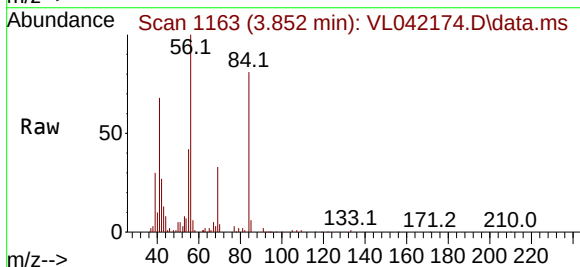
Tgt Ion: 84 Resp: 23052

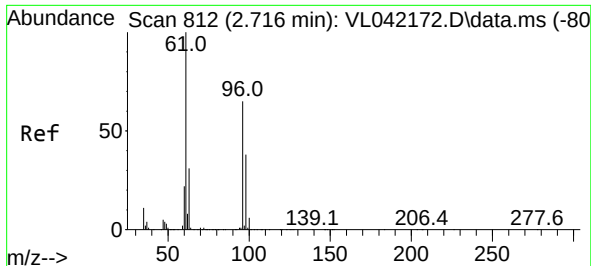
Ion Ratio Lower Upper

84 100

56 128.9 102.8 154.2

41 89.3 66.5 99.7

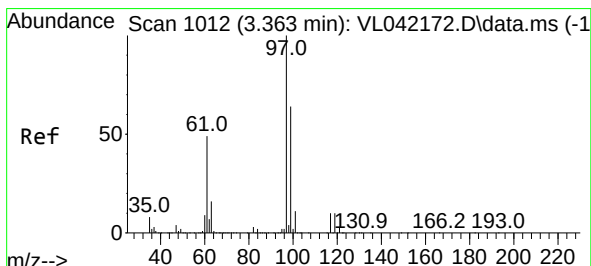
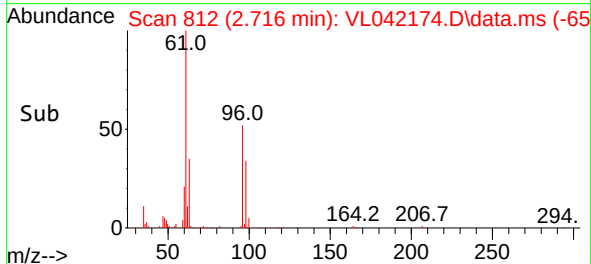
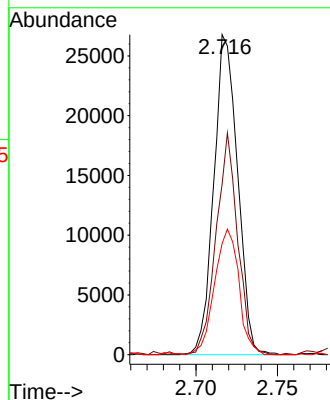
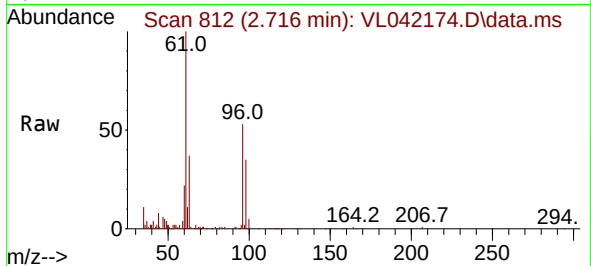




#31  
 cis-1,2-Dichloroethene  
 Concen: 1.026 ppbv  
 RT: 2.716 min Scan# 812  
 Delta R.T. 0.000 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

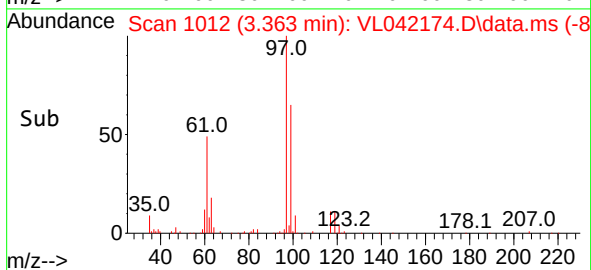
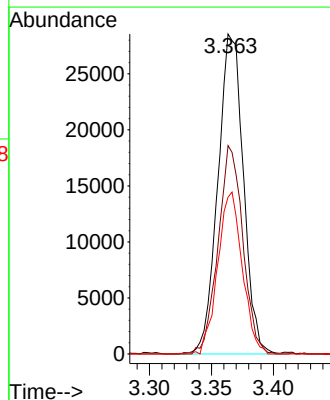
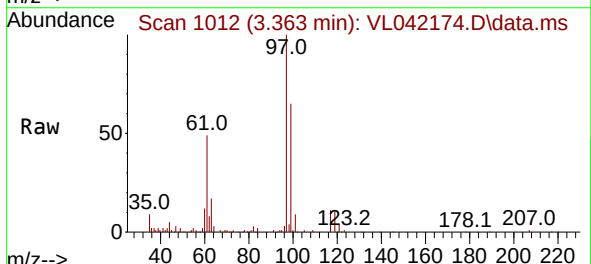
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

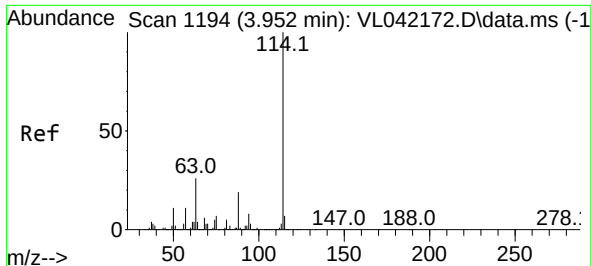
Tgt Ion: 61 Resp: 27187  
 Ion Ratio Lower Upper  
 61 100  
 96 53.3 51.8 77.8  
 98 34.8 30.6 46.0



#32  
 1,1,1-Trichloroethane  
 Concen: 0.938 ppbv  
 RT: 3.363 min Scan# 1012  
 Delta R.T. 0.000 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

Tgt Ion: 97 Resp: 40993  
 Ion Ratio Lower Upper  
 97 100  
 99 63.0 51.5 77.3  
 61 48.8 38.7 58.1

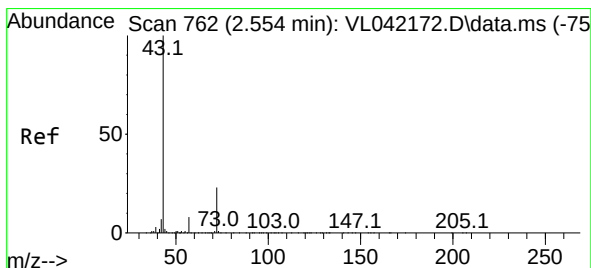
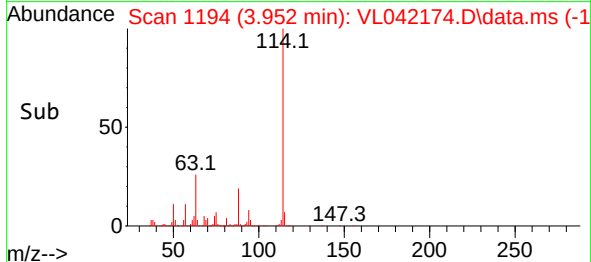
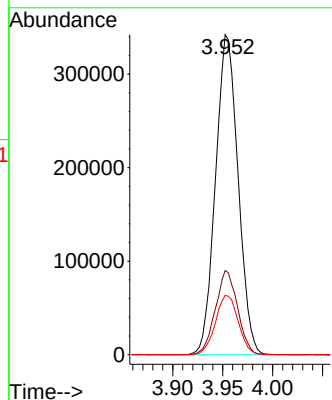
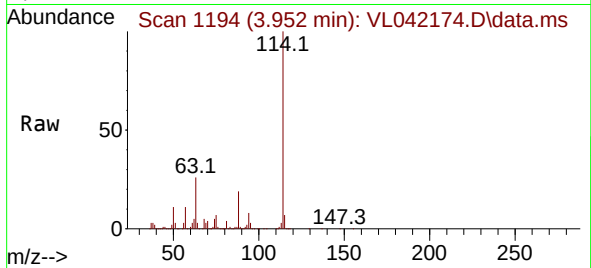




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.952 min Scan# 1194  
 Delta R.T. 0.000 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

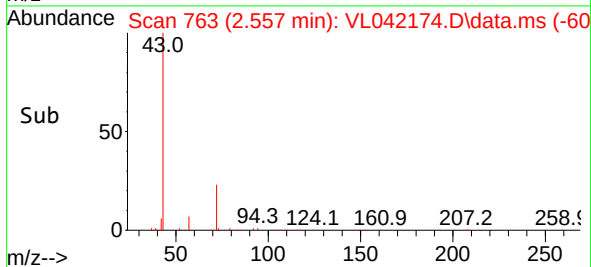
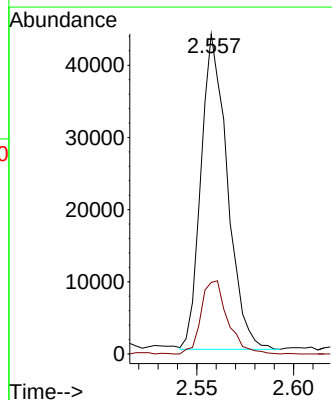
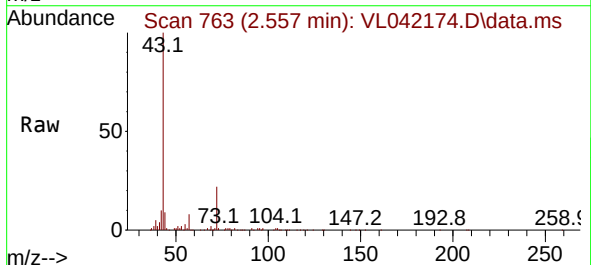
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

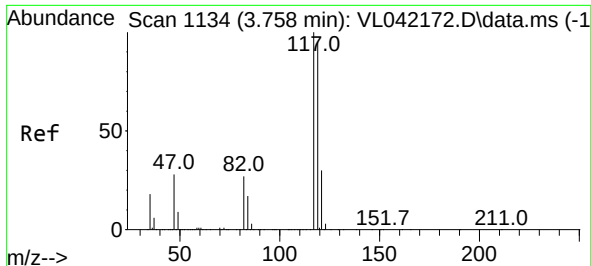
Tgt Ion:114 Resp: 537244  
 Ion Ratio Lower Upper  
 114 100  
 63 25.8 20.7 31.1  
 88 18.8 15.0 22.4



#34  
 2-Butanone  
 Concen: 1.063 ppbv  
 RT: 2.557 min Scan# 763  
 Delta R.T. 0.003 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

Tgt Ion: 43 Resp: 41423  
 Ion Ratio Lower Upper  
 43 100  
 72 23.5 18.2 27.2

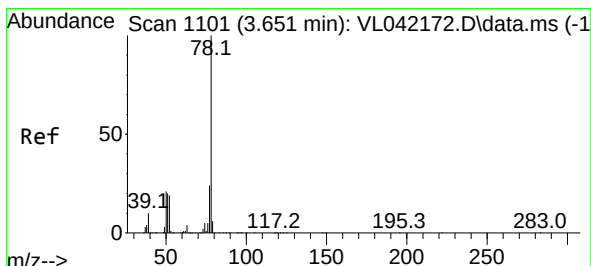
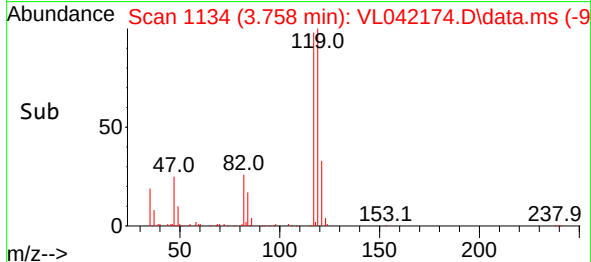
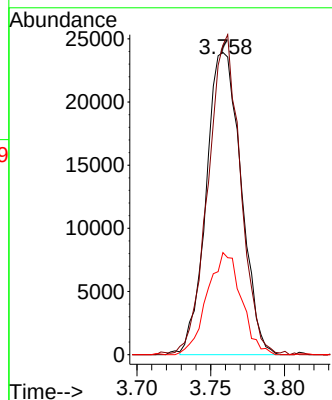
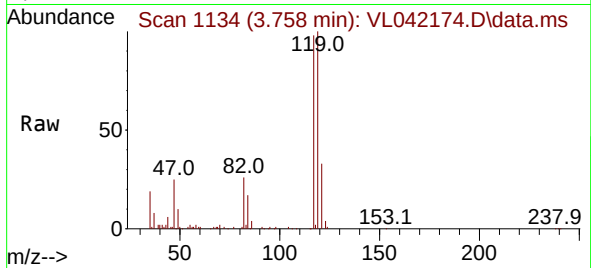




#35  
Carbon Tetrachloride  
Concen: 0.952 ppbv  
RT: 3.758 min Scan# 1134  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

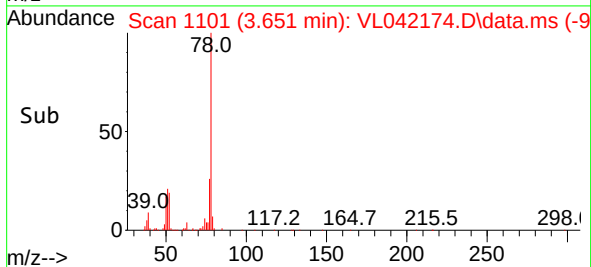
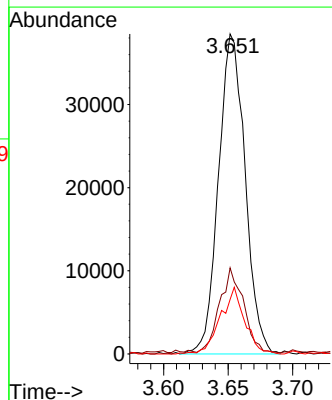
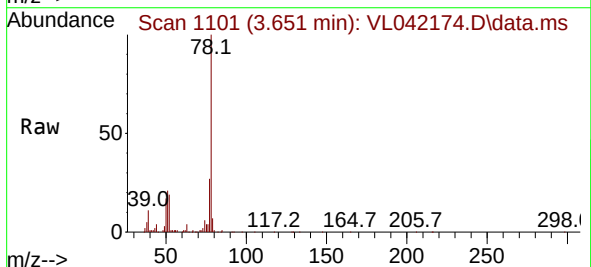
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

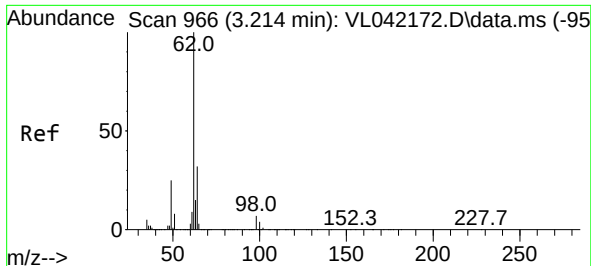
Tgt Ion:117 Resp: 39345  
Ion Ratio Lower Upper  
117 100  
119 101.8 76.2 114.2  
121 33.7 24.2 36.4



#36  
Benzene  
Concen: 1.036 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 78 Resp: 55156  
Ion Ratio Lower Upper  
78 100  
77 26.5 19.1 28.7  
50 17.1 16.6 24.8

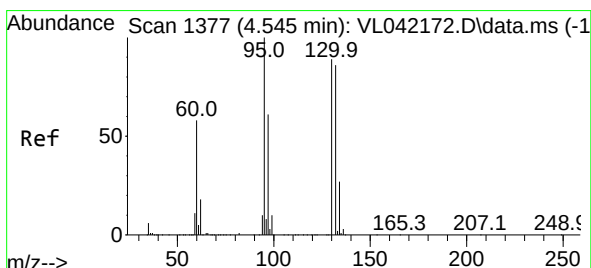
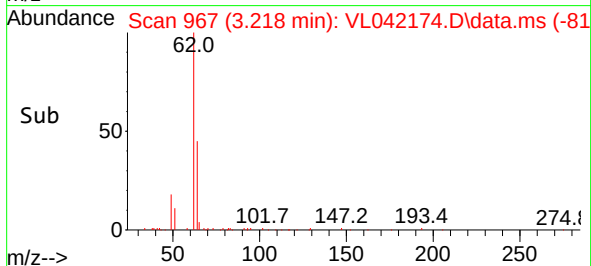
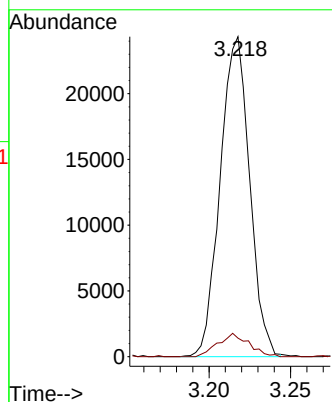
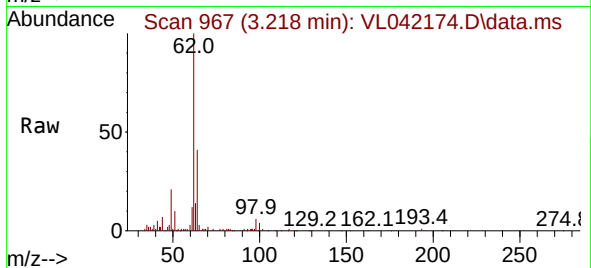




#37  
1,2-Dichloroethane  
Concen: 1.002 ppbv  
RT: 3.218 min Scan# 967  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

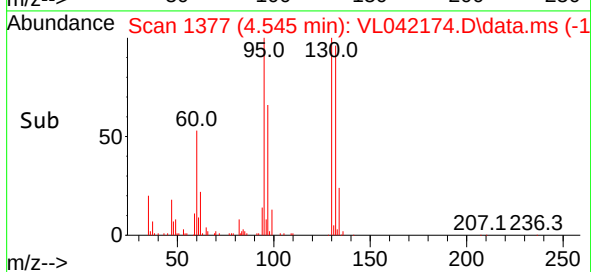
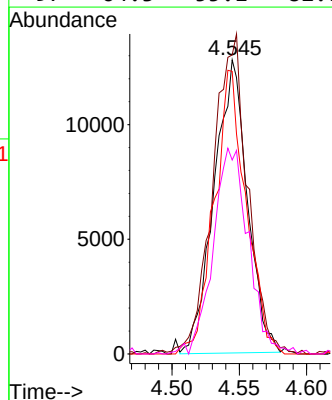
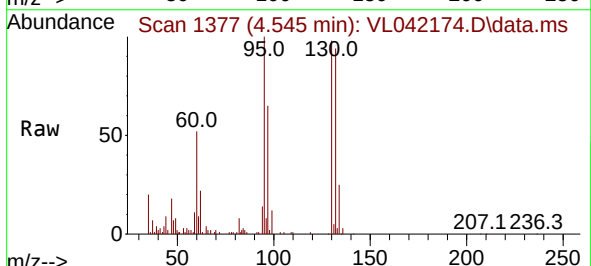
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

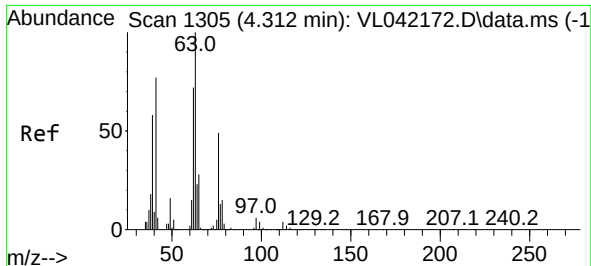
Tgt Ion: 62 Resp: 30543  
Ion Ratio Lower Upper  
62 100  
98 7.6 5.4 8.2



#38  
Trichloroethene  
Concen: 0.985 ppbv  
RT: 4.545 min Scan# 1377  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 130 Resp: 21906  
Ion Ratio Lower Upper  
130 100  
95 100.2 89.8 134.8  
132 95.3 77.4 116.2  
97 64.3 55.1 82.7





#39

1,2-Dichloropropane

Concen: 1.032 ppbv

RT: 4.312 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

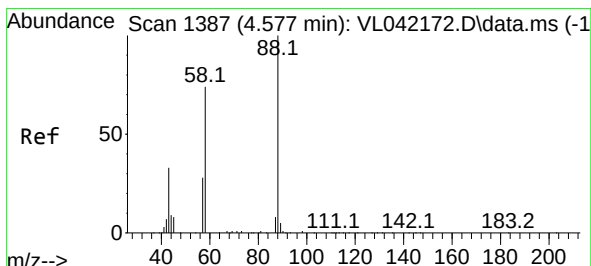
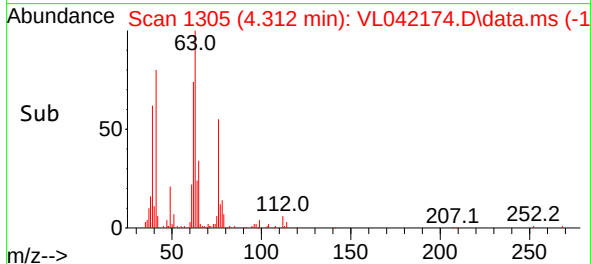
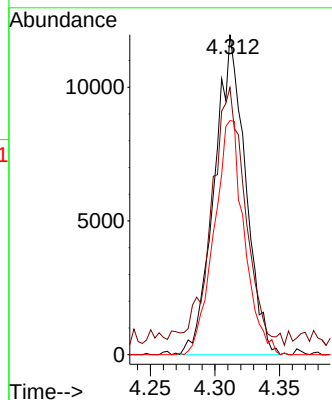
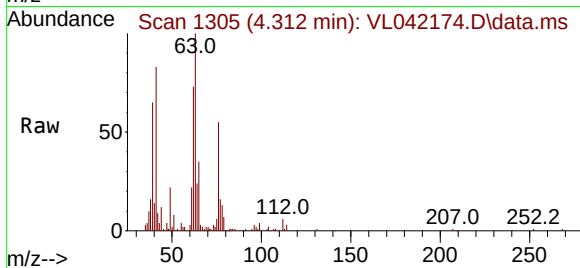
Tgt Ion: 63 Resp: 20020

Ion Ratio Lower Upper

63 100

41 76.8 61.7 92.5

62 73.1 57.6 86.4



#40

1,4-Dioxane

Concen: 0.997 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.016 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion: 88 Resp: 10031

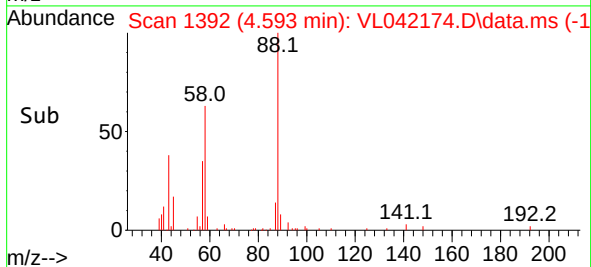
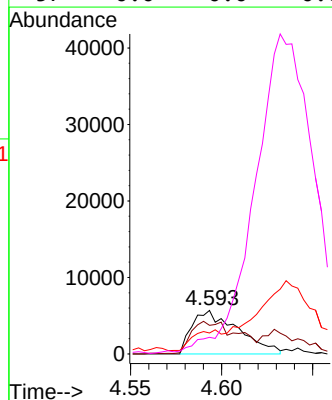
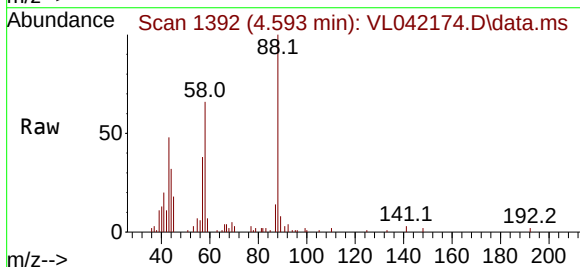
Ion Ratio Lower Upper

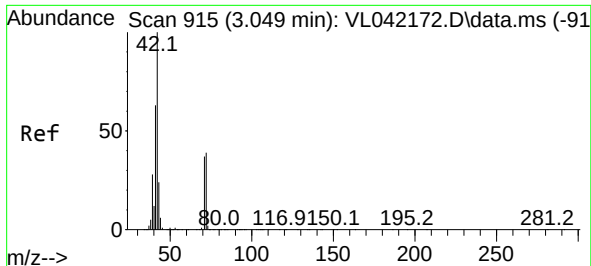
88 100

58 121.8 62.7 94.1#

43 0.0 23.0 34.4#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 1.029 ppbv

RT: 3.056 min Scan# 915

Delta R.T. 0.007 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

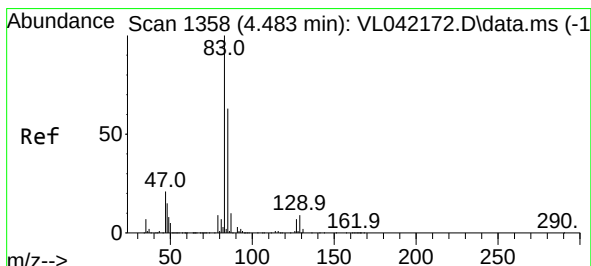
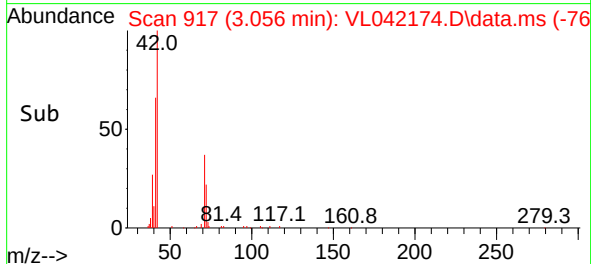
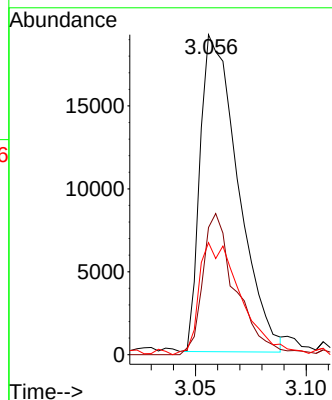
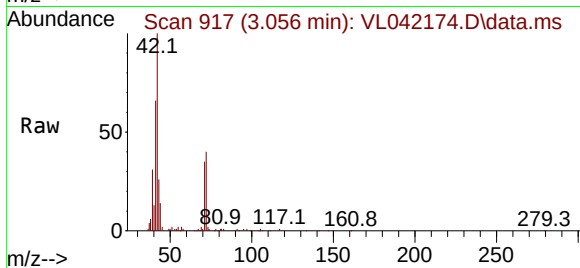
Tgt Ion: 42 Resp: 22818

Ion Ratio Lower Upper

42 100

72 39.4 31.4 47.0

71 40.8 30.2 45.4



#42

Bromodichloromethane

Concen: 0.996 ppbv

RT: 4.483 min Scan# 1358

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

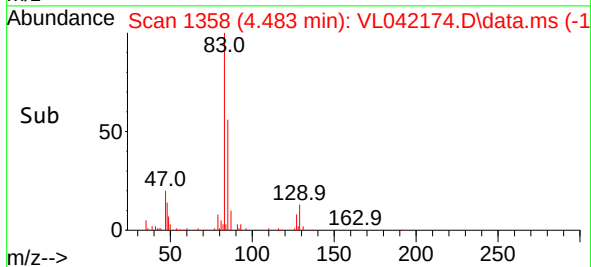
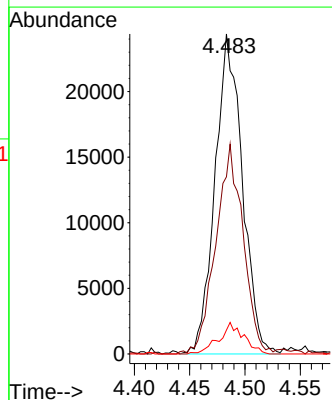
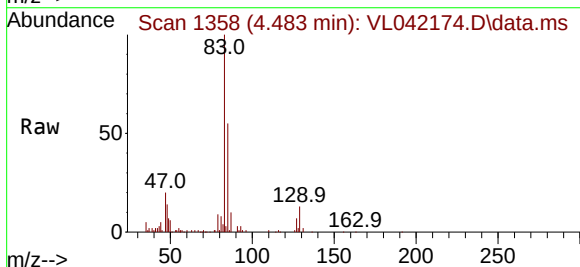
Tgt Ion: 83 Resp: 41864

Ion Ratio Lower Upper

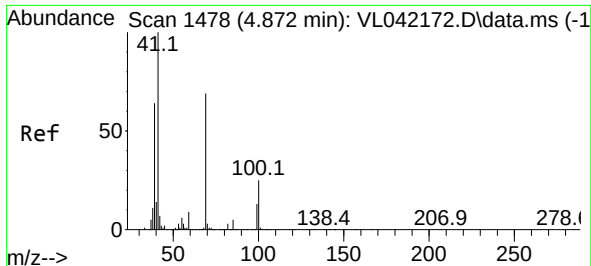
83 100

85 54.7 50.5 75.7

127 7.5 5.9 8.9



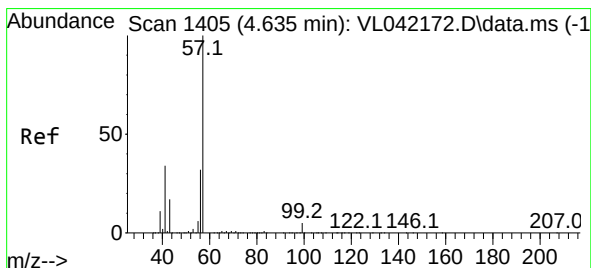
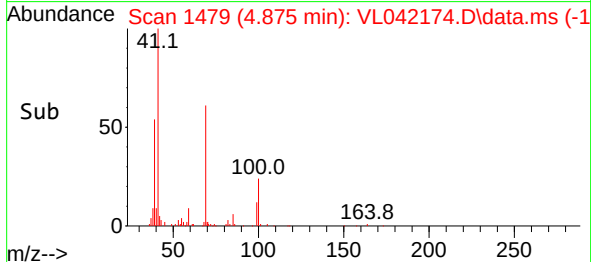
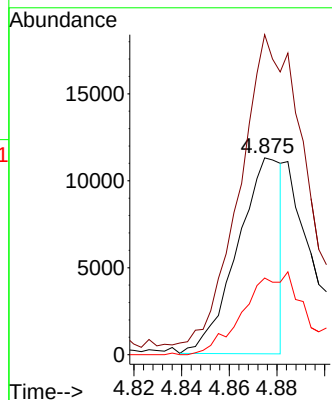
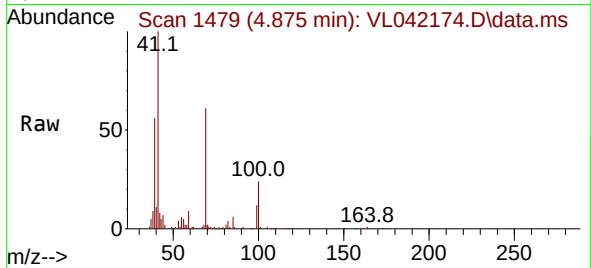




#43  
Methyl Methacrylate  
Concen: 0.640 ppbv  
RT: 4.875 min Scan# 1478  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

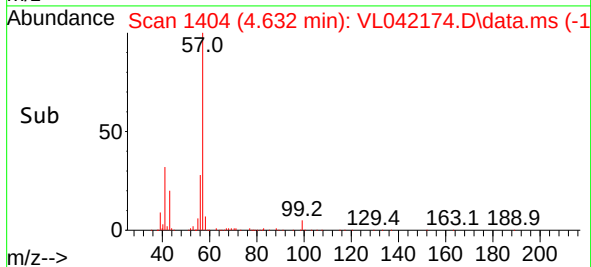
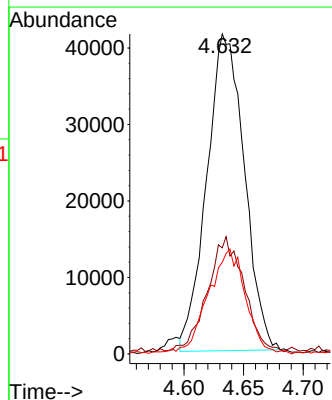
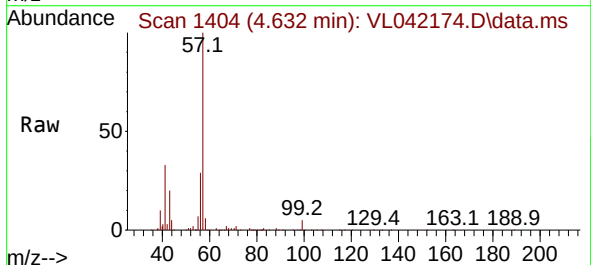
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC001

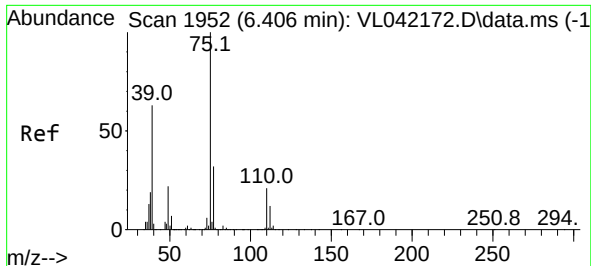
Tgt Ion: 69 Resp: 14387  
Ion Ratio Lower Upper  
69 100  
41 246.1 123.8 185.6#  
100 0.0 28.4 42.6#



#44  
2,2,4-Trimethylpentane  
Concen: 1.008 ppbv  
RT: 4.632 min Scan# 1404  
Delta R.T. -0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 57 Resp: 90727  
Ion Ratio Lower Upper  
57 100  
41 35.9 26.8 40.2  
56 33.7 25.6 38.4

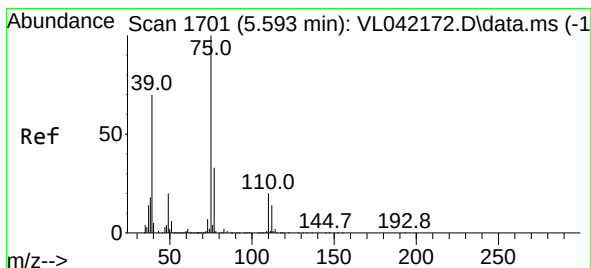
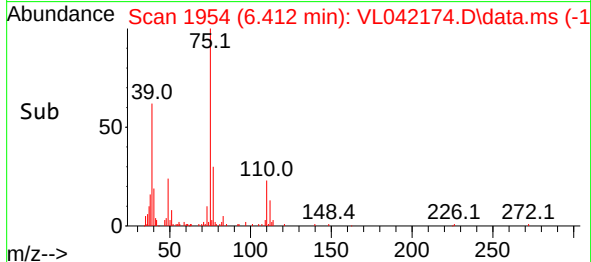
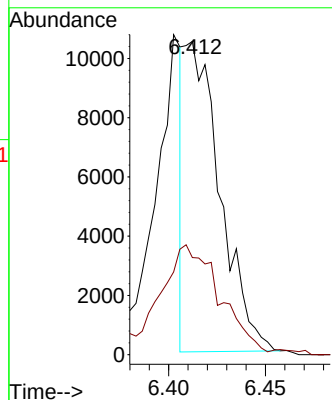
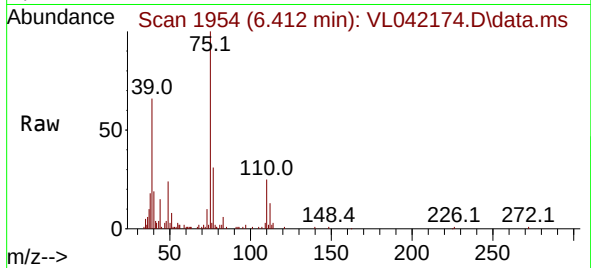




#45  
t-1,3-Dichloropropene  
Concen: 0.555 ppbv  
RT: 6.412 min Scan# 1954  
Delta R.T. 0.007 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

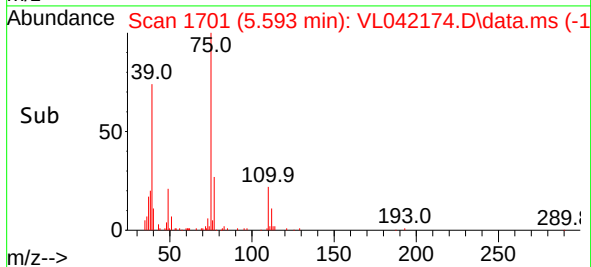
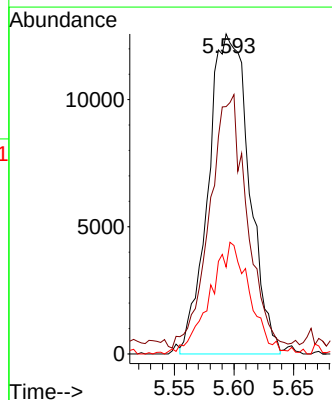
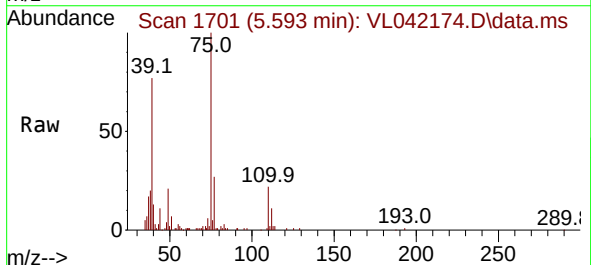
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

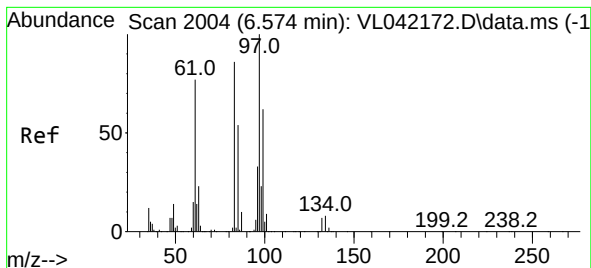
Tgt Ion: 75 Resp: 13431  
Ion Ratio Lower Upper  
75 100  
77 31.0 26.0 39.0



#46  
cis-1,3-Dichloropropene  
Concen: 1.014 ppbv  
RT: 5.593 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 75 Resp: 30063  
Ion Ratio Lower Upper  
75 100  
39 74.2 55.8 83.6  
77 26.4 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 1.002 ppbv

RT: 6.577 min Scan# 20

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 20546

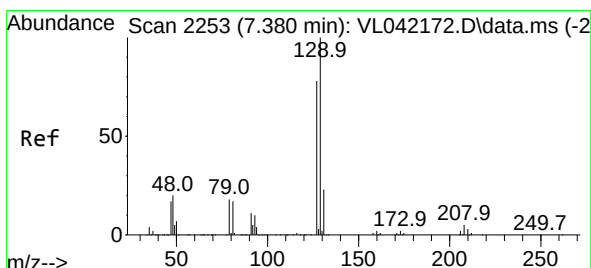
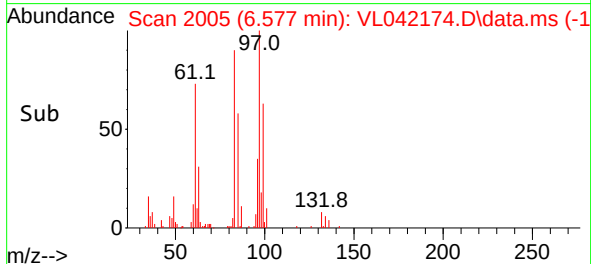
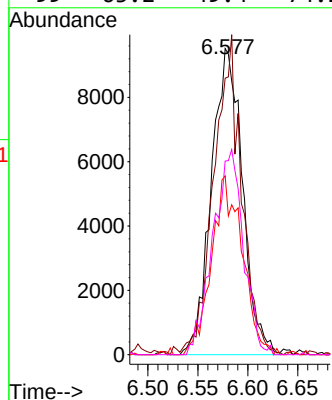
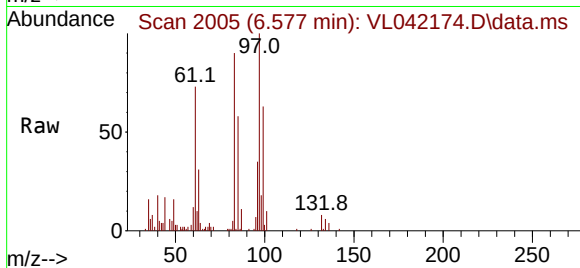
Ion Ratio Lower Upper

97 100

83 89.7 69.2 103.8

85 58.4 43.1 64.7

99 63.2 49.4 74.2



#48

Dibromochloromethane

Concen: 0.991 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.003 min

Lab File: VL042174.D

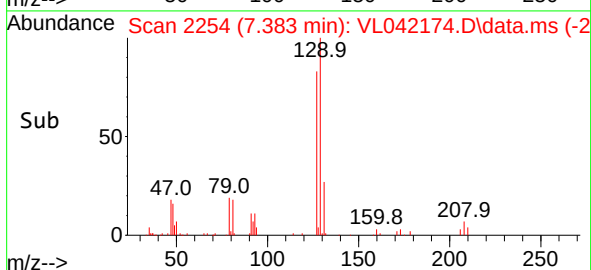
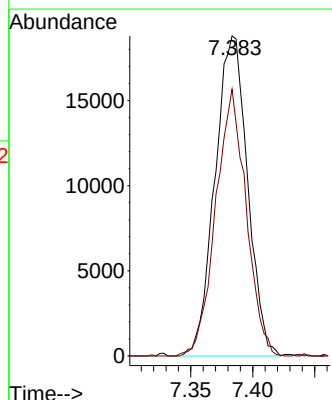
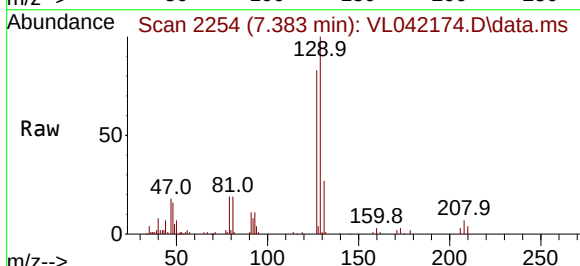
Acq: 27 Mar 2025 09:30

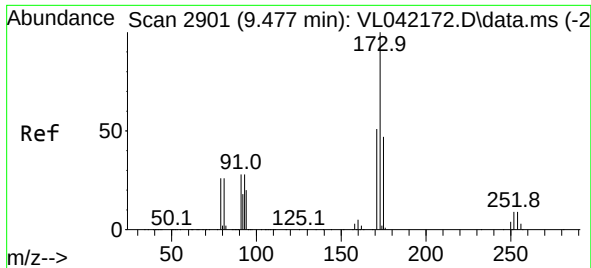
Tgt Ion: 129 Resp: 34425

Ion Ratio Lower Upper

129 100

127 78.1 39.1 117.2





#49

Bromoform

Concen: 1.013 ppbv

RT: 9.481 min Scan# 2901

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

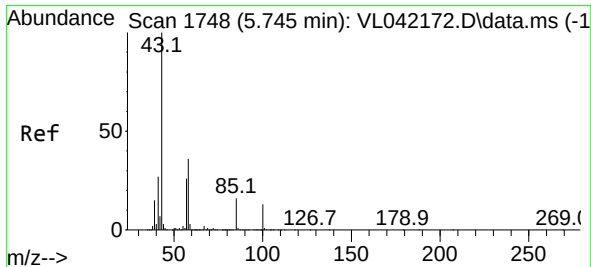
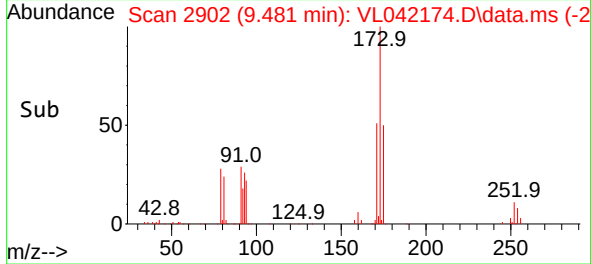
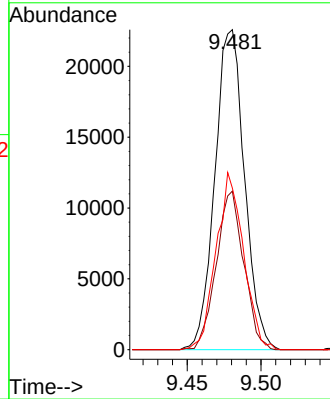
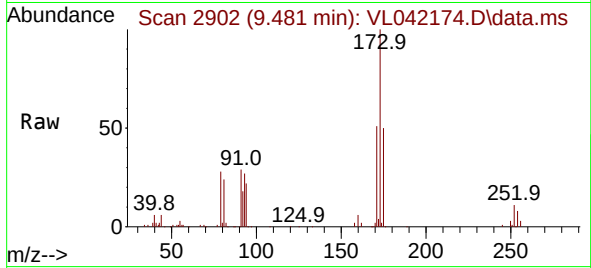
Tgt Ion:173 Resp: 31610

Ion Ratio Lower Upper

173 100

175 46.1 38.6 57.8

171 51.3 41.8 62.6



#50

4-Methyl-2-Pentanone

Concen: 0.556 ppbv

RT: 5.752 min Scan# 1750

Delta R.T. 0.007 min

Lab File: VL042174.D

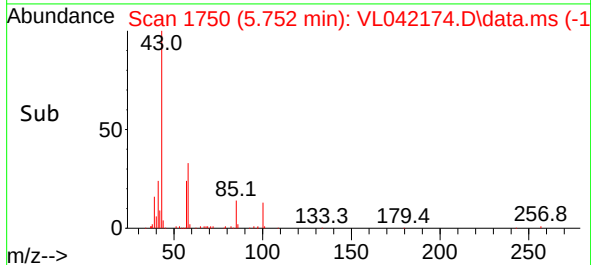
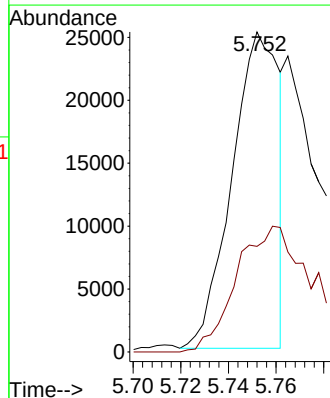
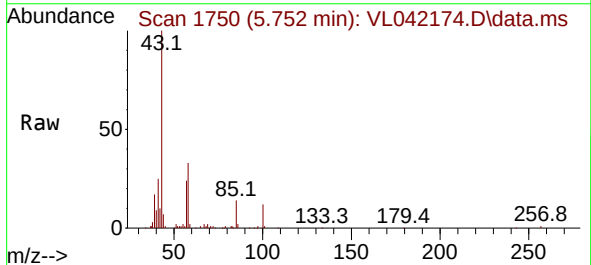
Acq: 27 Mar 2025 09:30

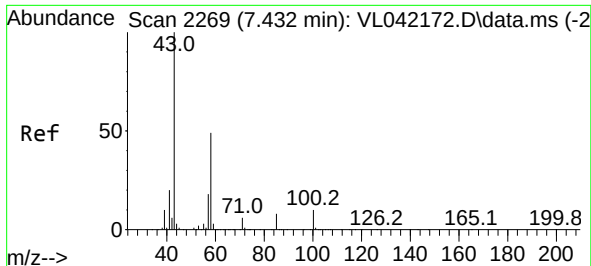
Tgt Ion: 43 Resp: 34358

Ion Ratio Lower Upper

43 100

58 0.0 29.0 43.6#

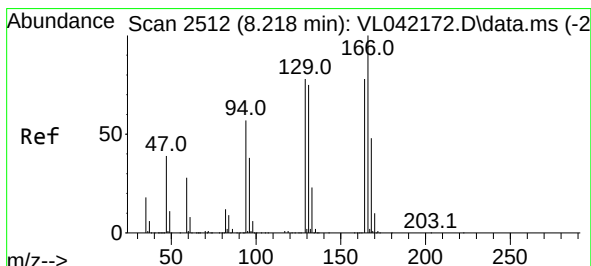
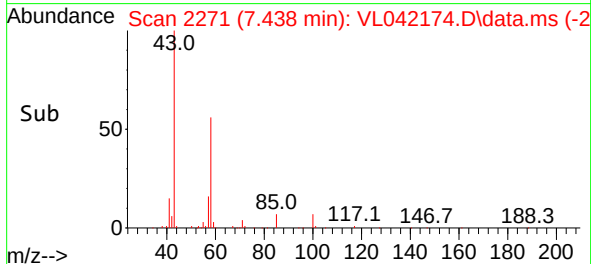
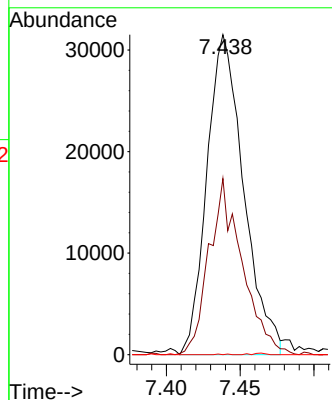
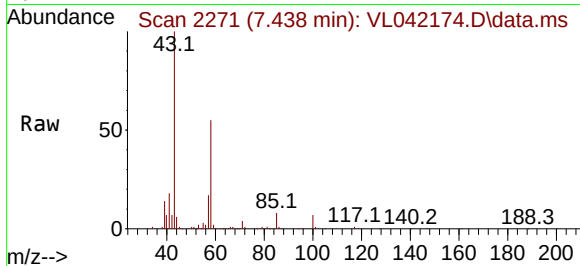




#51  
2-Hexanone  
Concen: 1.067 ppbv  
RT: 7.438 min Scan# 21  
Delta R.T. 0.007 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

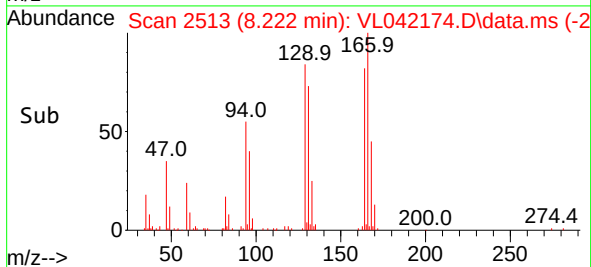
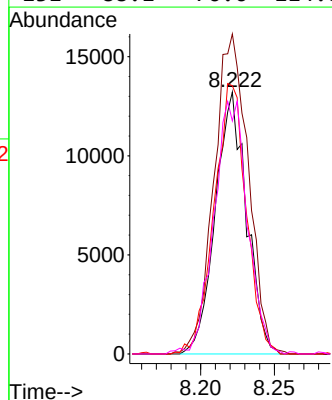
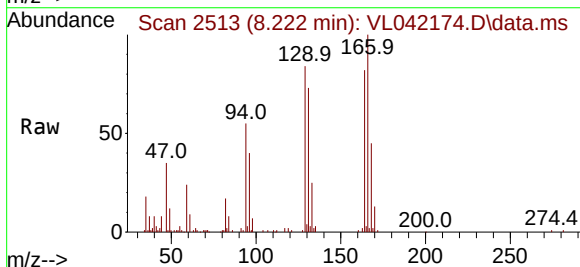
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

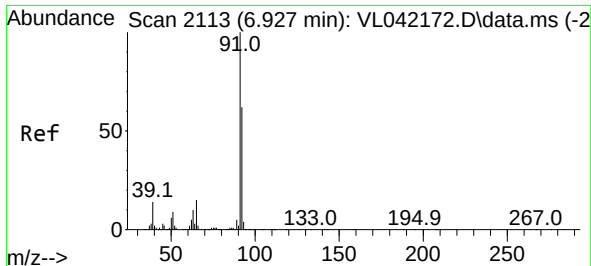
Tgt Ion: 43 Resp: 54680  
Ion Ratio Lower Upper  
43 100  
58 49.8 39.7 59.5  
98 0.2 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 0.919 ppbv  
RT: 8.222 min Scan# 2513  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 164 Resp: 19415  
Ion Ratio Lower Upper  
164 100  
166 121.4 102.5 153.7  
129 102.4 79.8 119.8  
131 88.1 76.6 114.8

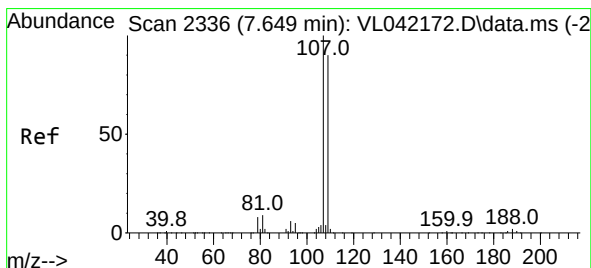
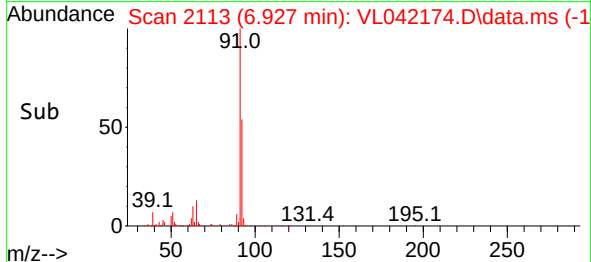
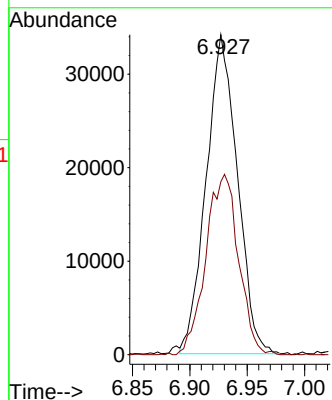
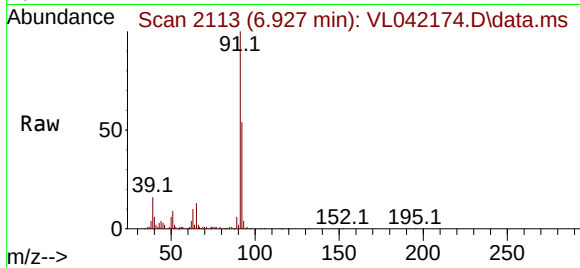




#53  
Toluene  
Concen: 1.023 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

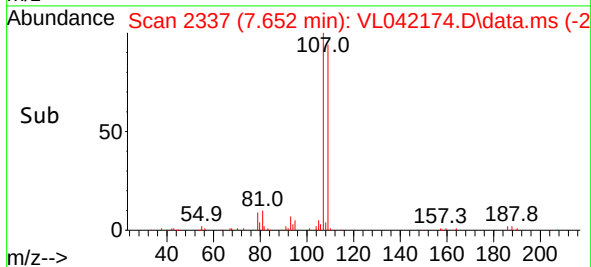
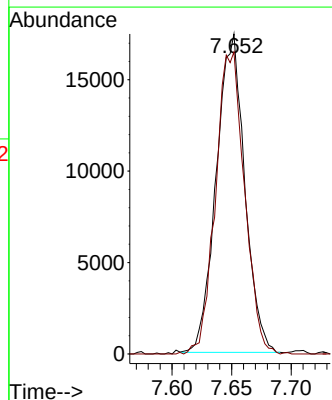
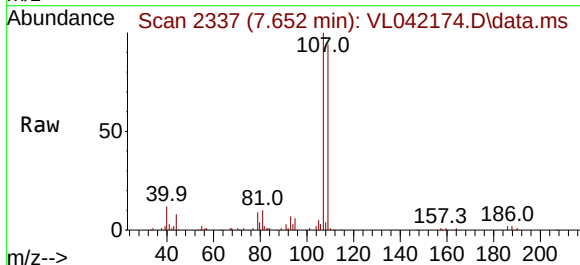
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

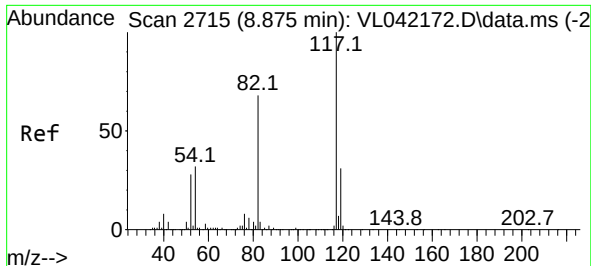
Tgt Ion: 91 Resp: 64612  
Ion Ratio Lower Upper  
91 100  
92 59.4 48.4 72.6



#54  
1,2-Dibromoethane  
Concen: 1.009 ppbv  
RT: 7.652 min Scan# 2337  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 107 Resp: 28879  
Ion Ratio Lower Upper  
107 100  
109 94.8 72.2 108.4

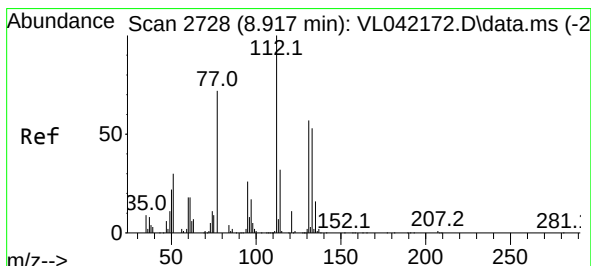
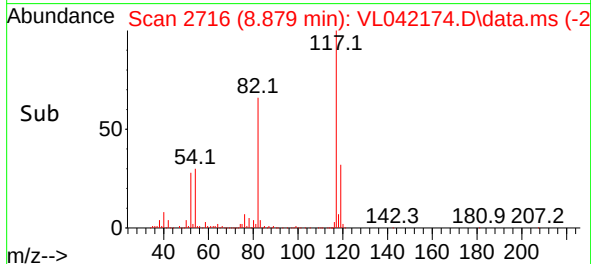
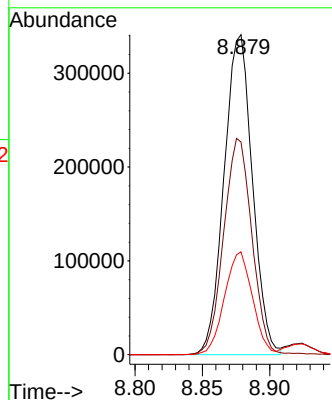
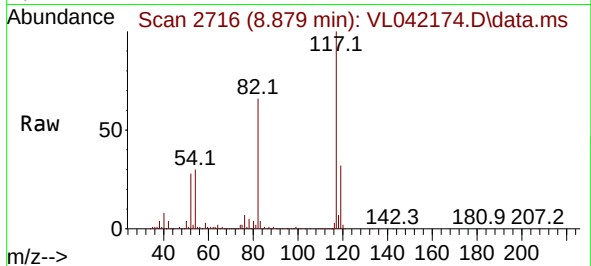




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.879 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

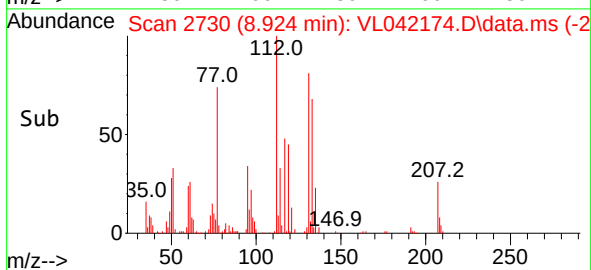
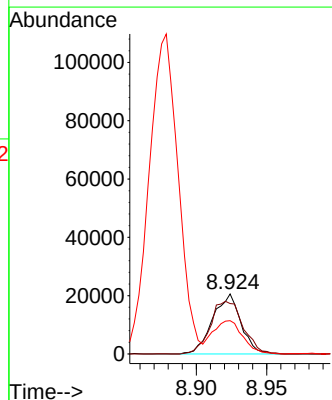
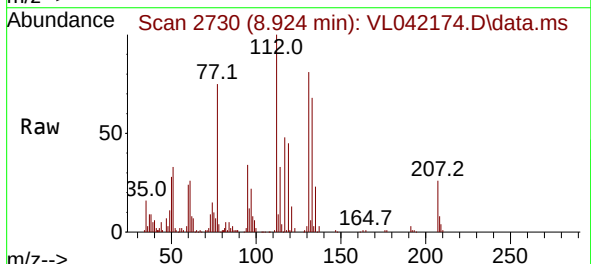
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

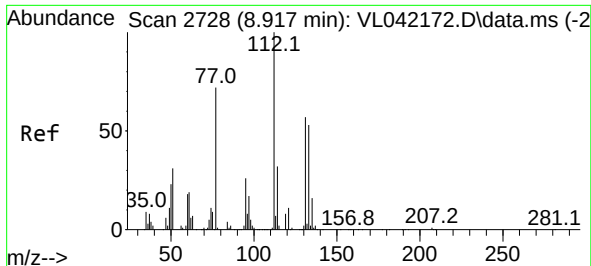
Tgt Ion:117 Resp: 499830  
Ion Ratio Lower Upper  
117 100  
82 67.6 55.8 83.6  
119 32.2 25.5 38.3



#56  
1,1,1,2-Tetrachloroethane  
Concen: 1.045 ppbv  
RT: 8.924 min Scan# 2730  
Delta R.T. 0.007 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion:131 Resp: 28764  
Ion Ratio Lower Upper  
131 100  
133 101.7 76.6 114.8  
119 44.1 49.8 74.6#

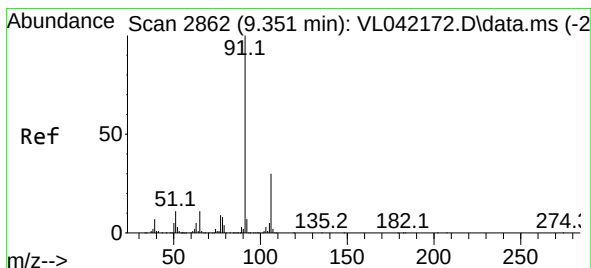
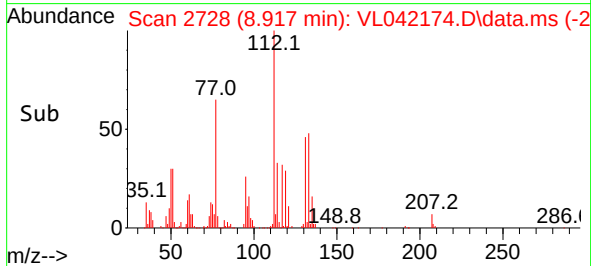
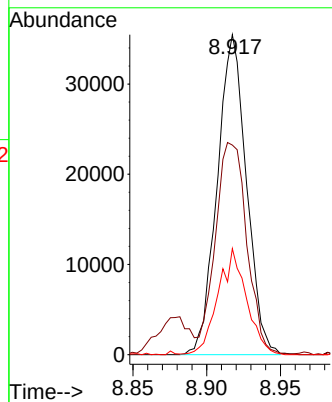
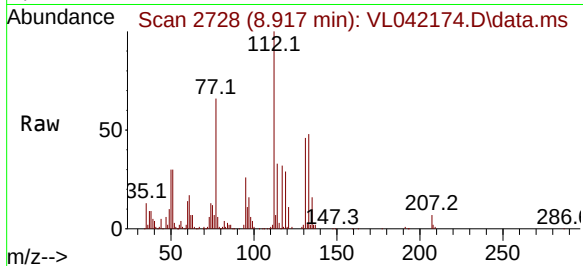




#57  
Chlorobenzene  
Concen: 1.032 ppbv  
RT: 8.917 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

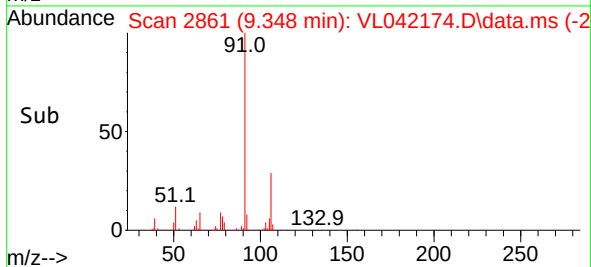
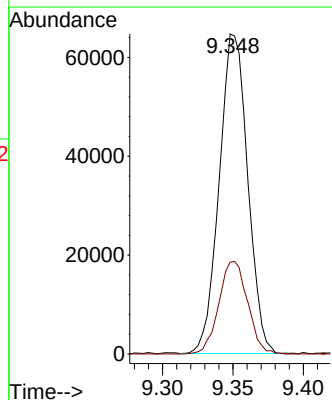
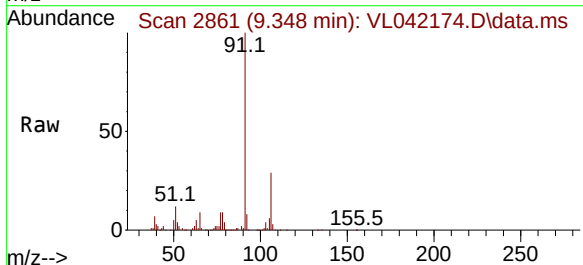
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

Tgt Ion:112 Resp: 48930  
Ion Ratio Lower Upper  
112 100  
77 65.0 58.2 87.2  
114 32.9 29.1 35.5

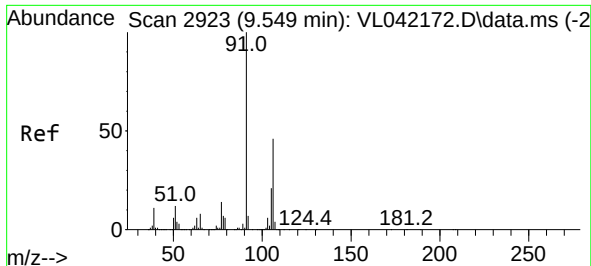


#58  
Ethyl Benzene  
Concen: 1.026 ppbv  
RT: 9.348 min Scan# 2861  
Delta R.T. -0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 91086  
Ion Ratio Lower Upper  
91 100  
106 28.7 24.2 36.2







#59

m/p-Xylene

Concen: 1.033 ppbv

RT: 9.545 min Scan# 2923

Delta R.T. -0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_1

ClientSampleId :

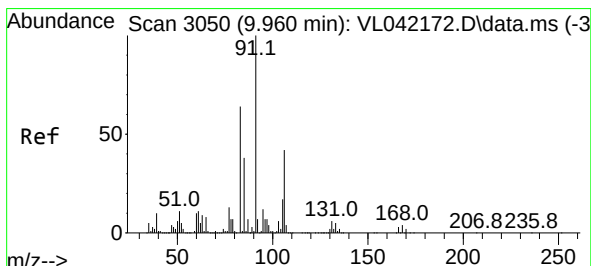
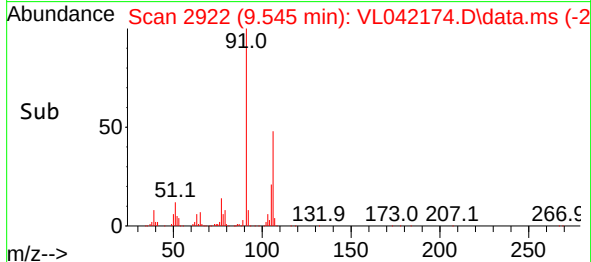
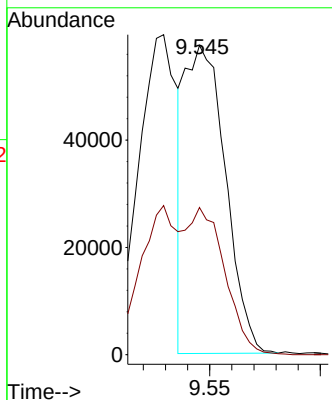
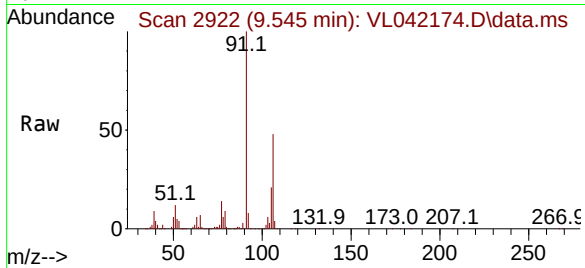
VSTDIC001

Tgt Ion: 91 Resp: 73295

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#



#60

o-Xylene

Concen: 1.037 ppbv

RT: 9.960 min Scan# 3050

Delta R.T. 0.000 min

Lab File: VL042174.D

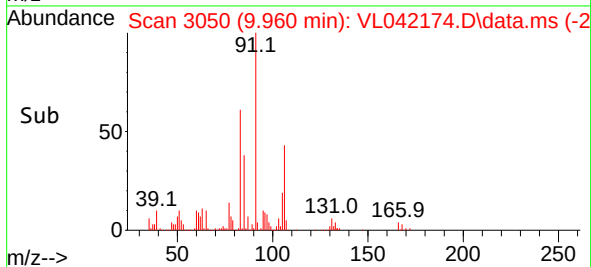
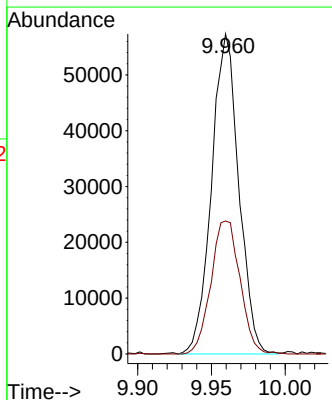
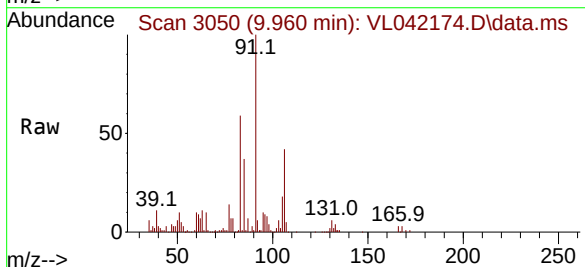
Acq: 27 Mar 2025 09:30

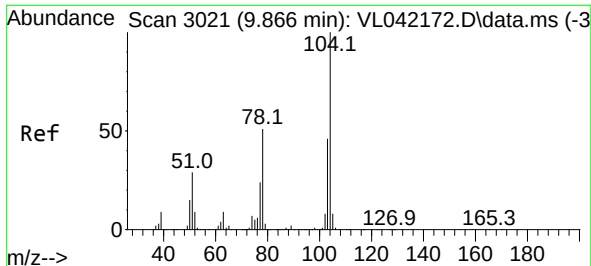
Tgt Ion: 91 Resp: 73702

Ion Ratio Lower Upper

91 100

106 44.3 20.8 62.5





#61

Styrene

Concen: 1.027 ppbv

RT: 9.866 min Scan# 3021

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

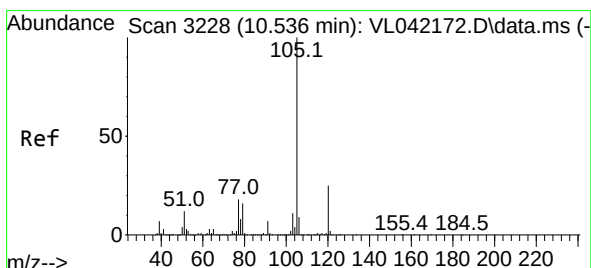
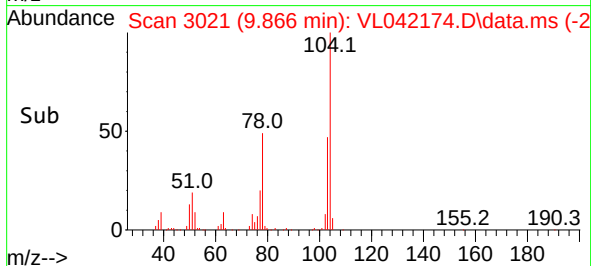
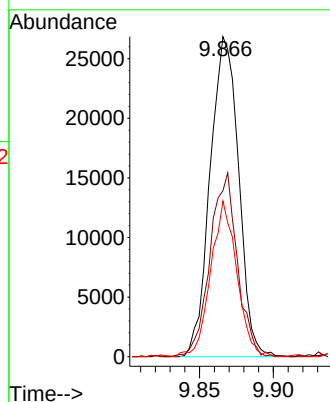
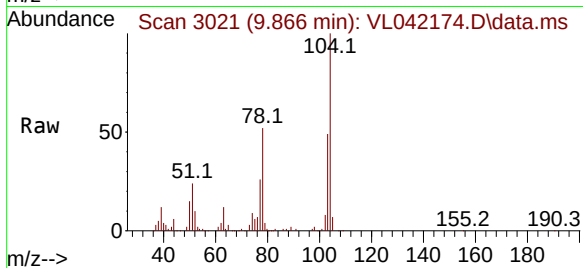
Tgt Ion:104 Resp: 36110

Ion Ratio Lower Upper

104 100

78 54.9 41.8 62.6

103 45.1 37.0 55.4



#62

Isopropylbenzene

Concen: 1.034 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. 0.000 min

Lab File: VL042174.D

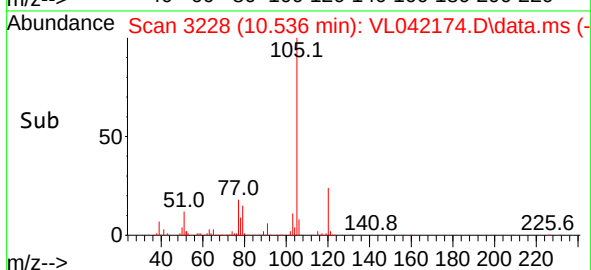
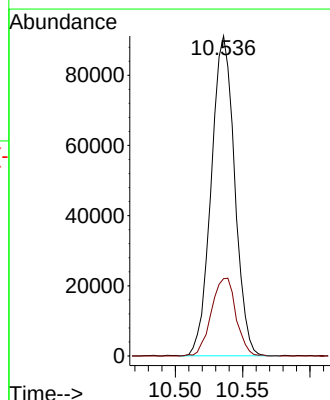
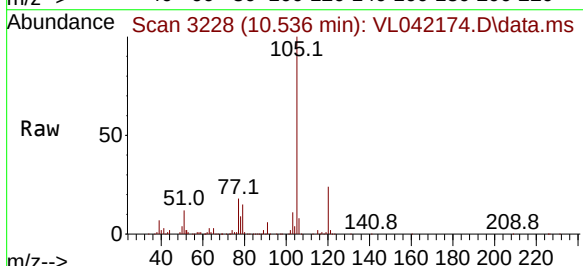
Acq: 27 Mar 2025 09:30

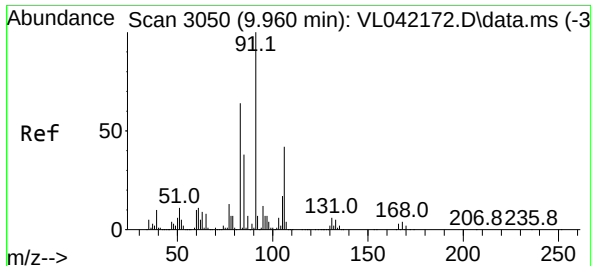
Tgt Ion:105 Resp: 109897

Ion Ratio Lower Upper

105 100

120 25.7 19.9 29.9

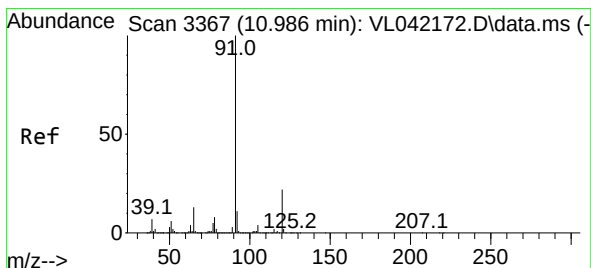
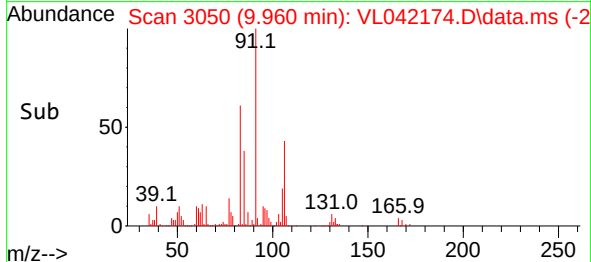
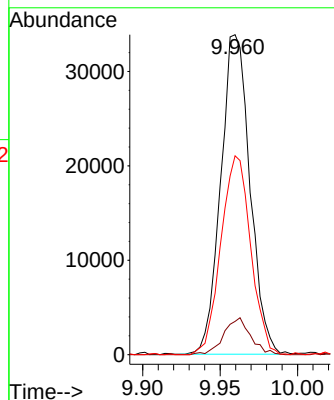
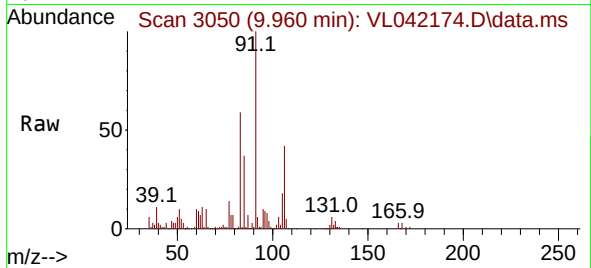




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 1.029 ppbv  
 RT: 9.960 min Scan# 3050  
 Delta R.T. 0.000 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

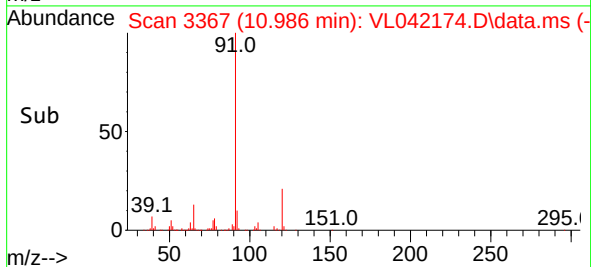
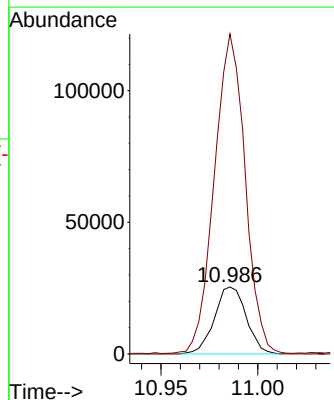
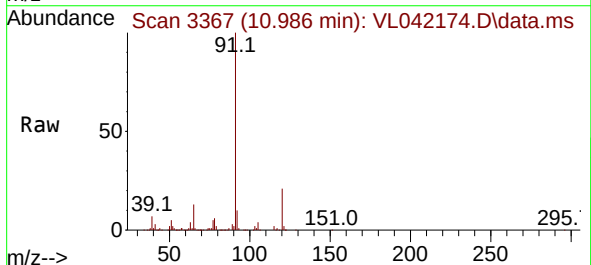
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

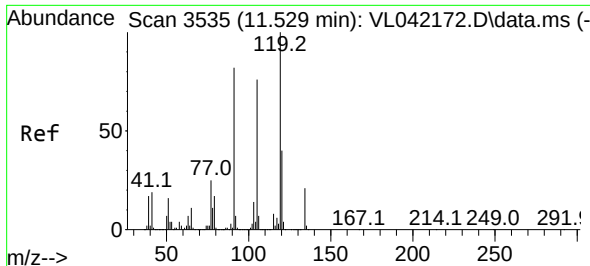
Tgt Ion: 83 Resp: 44431  
 Ion Ratio Lower Upper  
 83 100  
 131 10.6 4.8 14.4  
 85 64.0 32.5 97.5



#64  
 n-propylbenzene  
 Concen: 1.062 ppbv  
 RT: 10.986 min Scan# 3367  
 Delta R.T. 0.000 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

Tgt Ion: 120 Resp: 29054  
 Ion Ratio Lower Upper  
 120 100  
 91 466.9 376.9 565.3

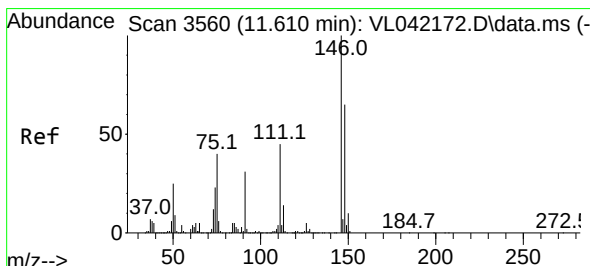
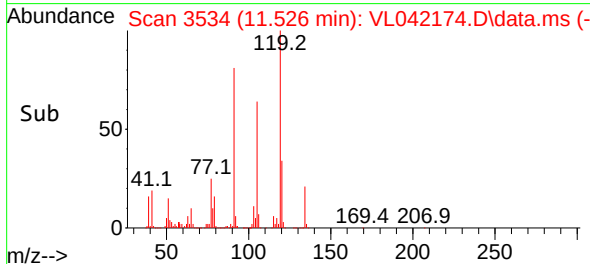
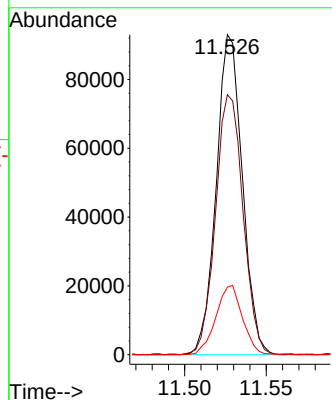
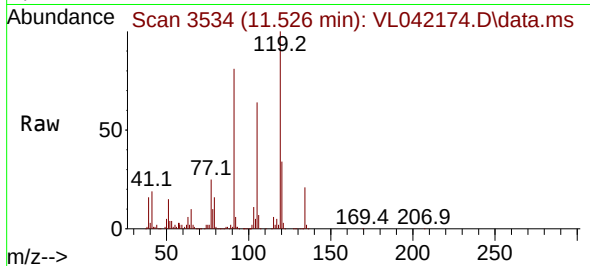




#65  
tert-Butylbenzene  
Concen: 1.053 ppbv  
RT: 11.526 min Scan# 3534  
Delta R.T. -0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

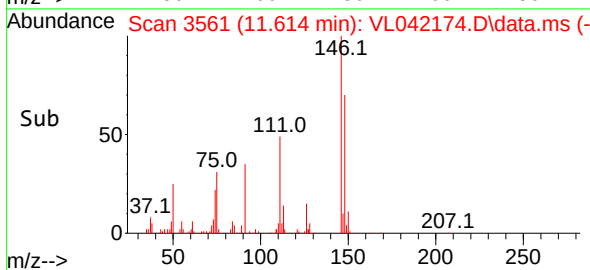
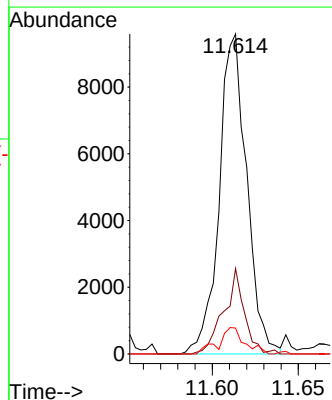
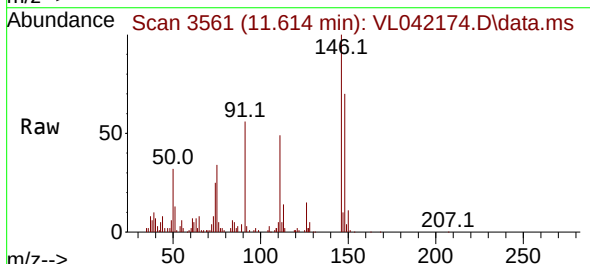
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

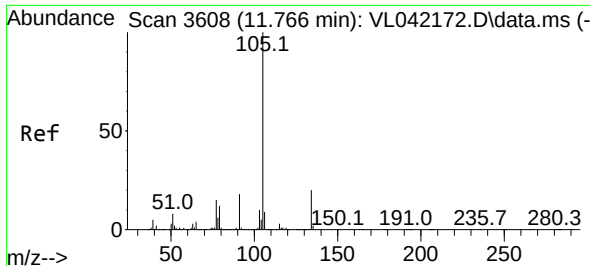
Tgt Ion:119 Resp: 103520  
Ion Ratio Lower Upper  
119 100  
91 85.9 66.0 99.0  
134 22.1 16.7 25.1



#66  
Benzyl Chloride  
Concen: 1.022 ppbv  
RT: 11.614 min Scan# 3561  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 10660  
Ion Ratio Lower Upper  
91 100  
126 20.0 13.8 20.6  
128 8.0 4.5 6.7#

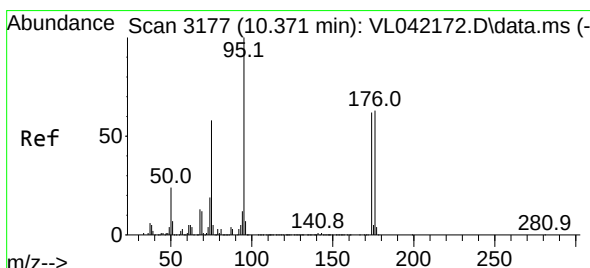
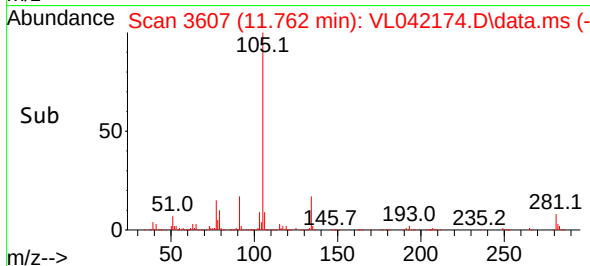
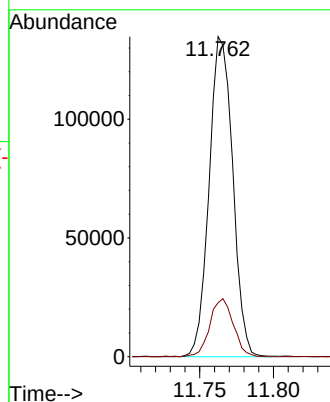
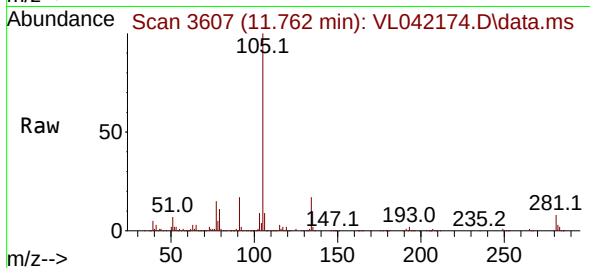




#67  
 sec-Butylbenzene  
 Concen: 1.095 ppbv  
 RT: 11.762 min Scan# 3607  
 Delta R.T. -0.003 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

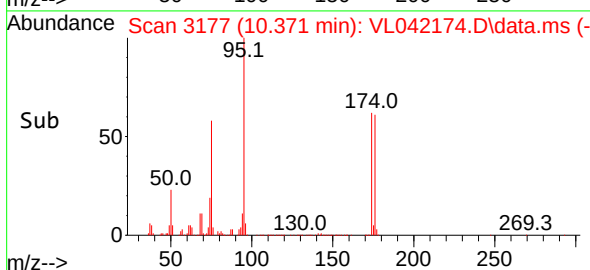
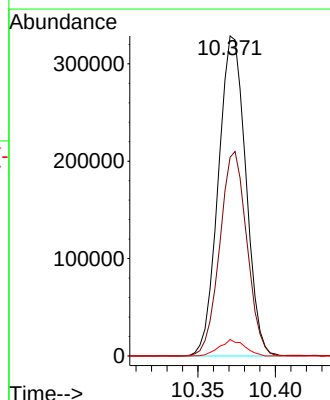
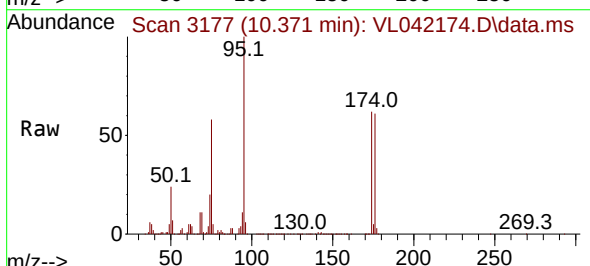
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

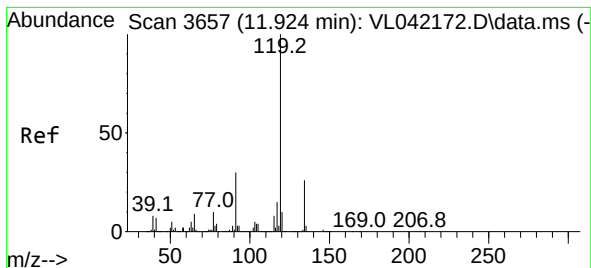
Tgt Ion:105 Resp: 149660  
 Ion Ratio Lower Upper  
 105 100  
 134 18.1 15.5 23.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.861 ppbv  
 RT: 10.371 min Scan# 3177  
 Delta R.T. 0.000 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

Tgt Ion: 95 Resp: 404753  
 Ion Ratio Lower Upper  
 95 100  
 174 63.4 50.6 76.0  
 175 4.7 3.8 5.6

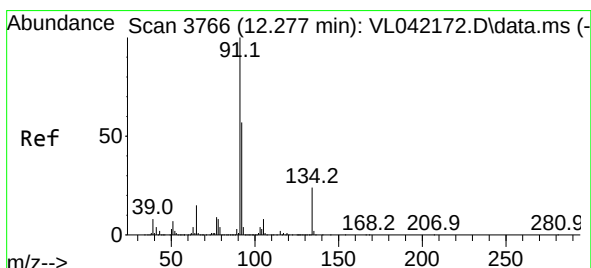
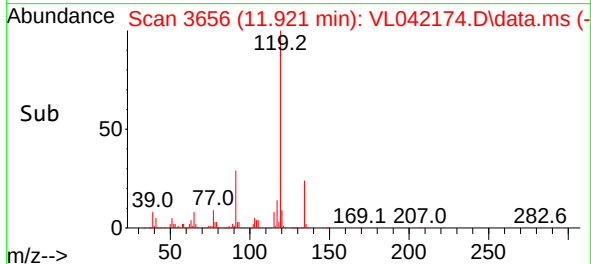
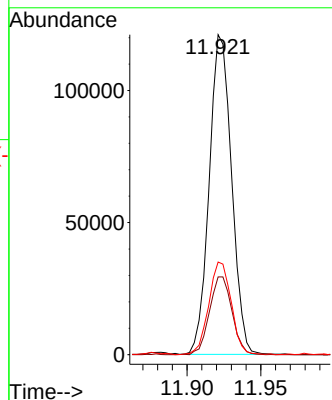
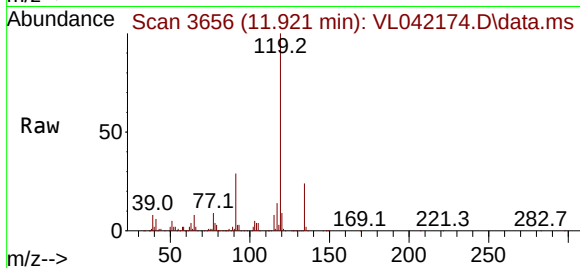




#69  
p-Isopropyltoluene  
Concen: 1.084 ppbv  
RT: 11.921 min Scan# 3656  
Delta R.T. -0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

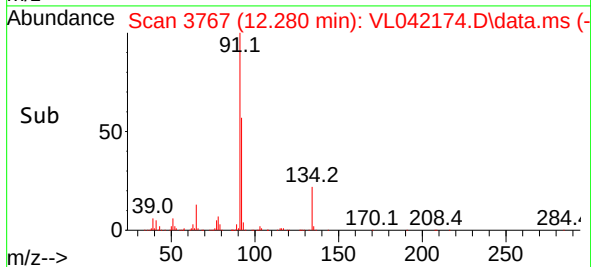
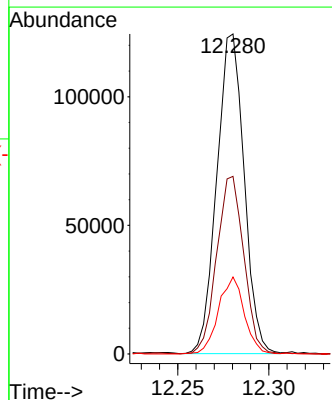
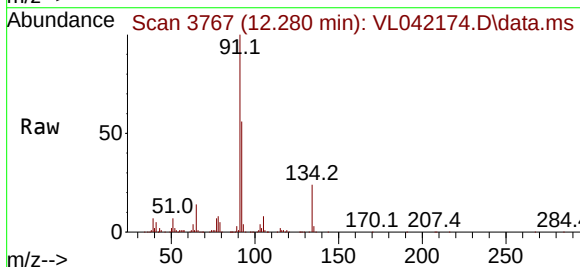
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

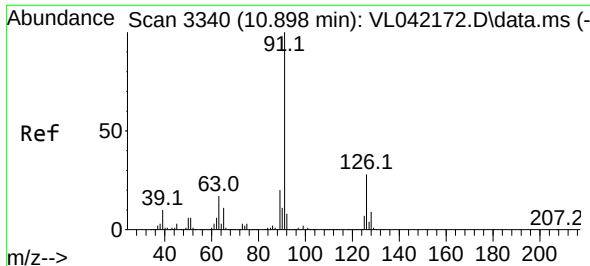
Tgt Ion: 119 Resp: 127509  
Ion Ratio Lower Upper  
119 100  
134 24.6 20.4 30.6  
91 30.0 23.7 35.5



#70  
n-Butylbenzene  
Concen: 1.079 ppbv  
RT: 12.280 min Scan# 3767  
Delta R.T. 0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 91 Resp: 129860  
Ion Ratio Lower Upper  
91 100  
92 55.5 44.9 67.3  
134 22.8 19.2 28.8

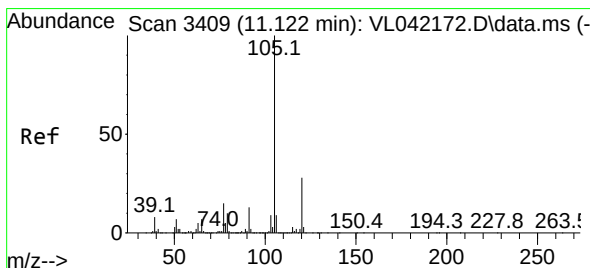
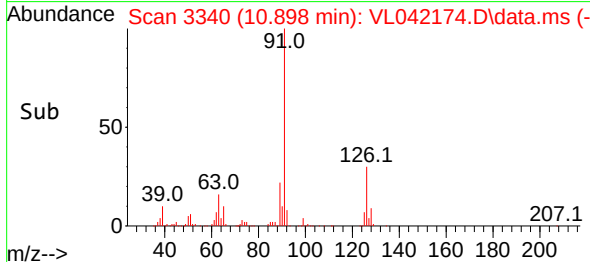
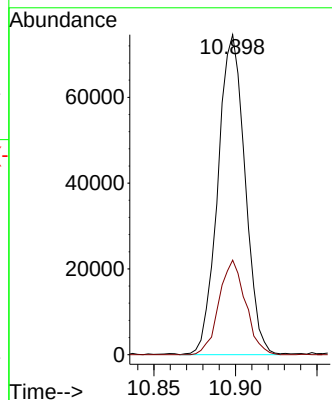
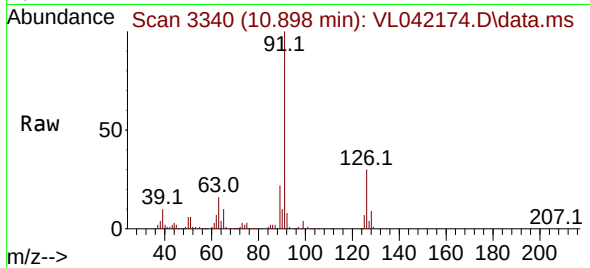




#71  
2-Chlorotoluene  
Concen: 1.047 ppbv  
RT: 10.898 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

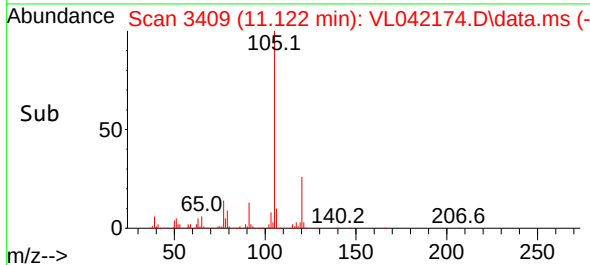
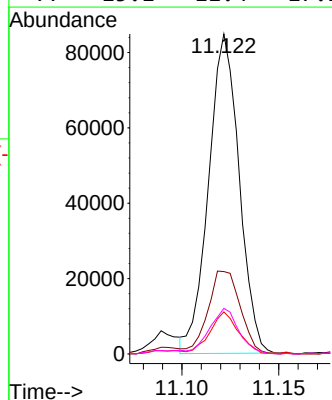
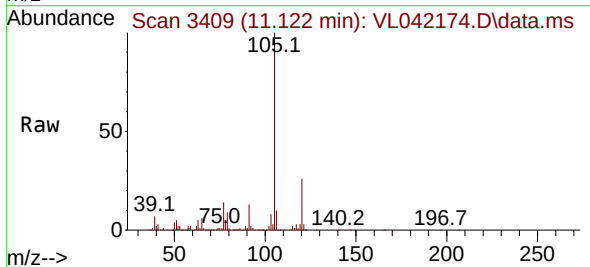
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

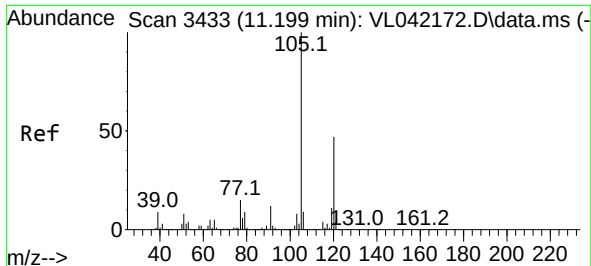
Tgt Ion: 91 Resp: 86356  
Ion Ratio Lower Upper  
91 100  
126 28.8 11.6 46.4



#72  
4-Ethyltoluene  
Concen: 1.050 ppbv  
RT: 11.122 min Scan# 3409  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion: 105 Resp: 92912  
Ion Ratio Lower Upper  
105 100  
120 29.7 23.4 35.0  
91 13.5 10.3 15.5  
77 15.1 11.4 17.2

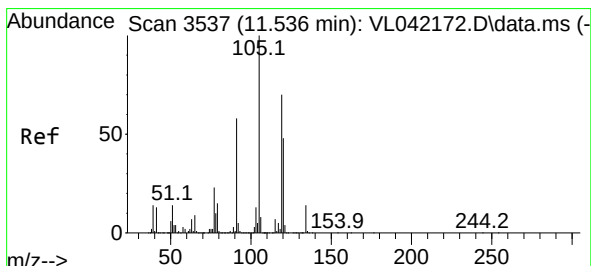
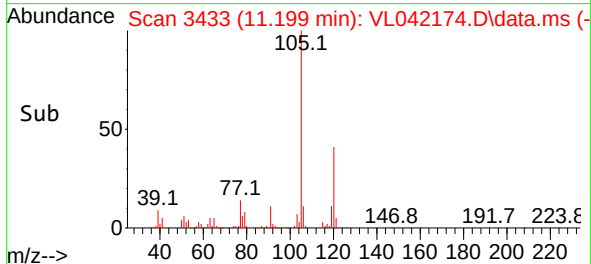
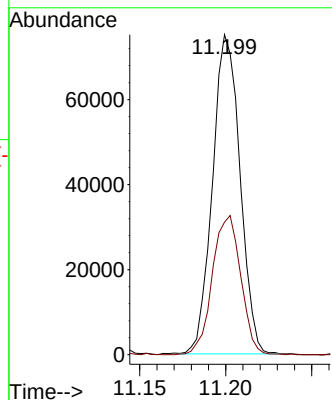
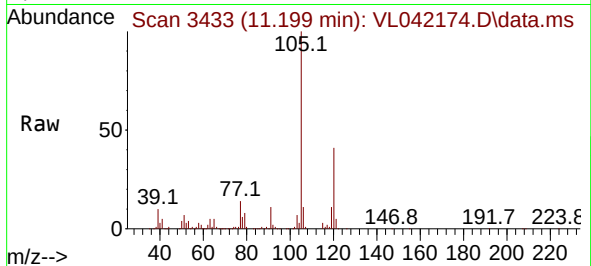




#73  
1,3,5-Trimethylbenzene  
Concen: 1.080 ppbv  
RT: 11.199 min Scan# 3433  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

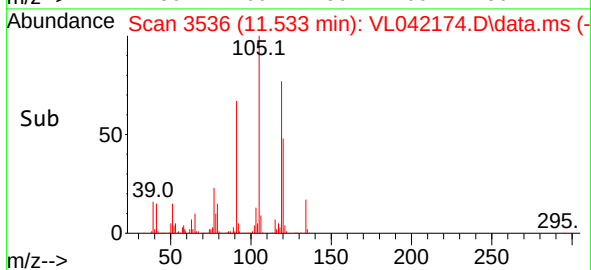
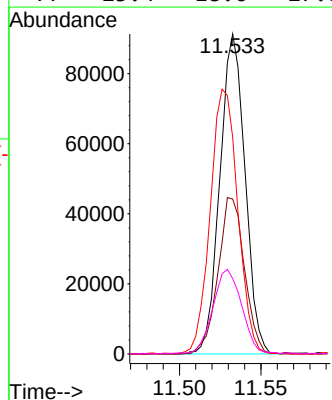
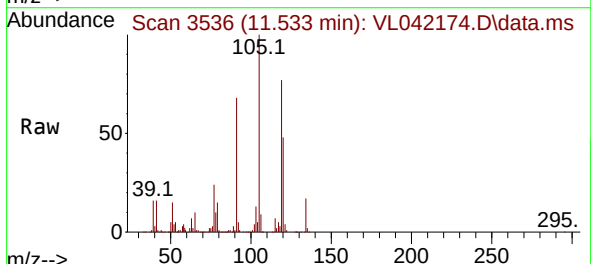
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

Tgt Ion:105 Resp: 83497  
Ion Ratio Lower Upper  
105 100  
120 41.3 37.4 56.0

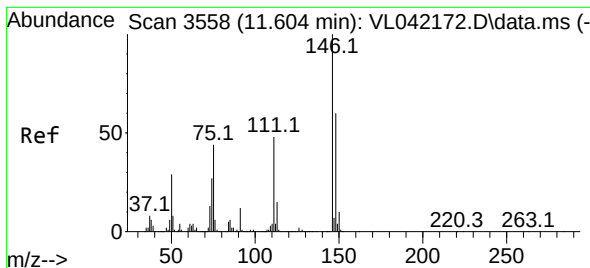


#74  
1,2,4-Trimethylbenzene  
Concen: 1.099 ppbv  
RT: 11.533 min Scan# 3536  
Delta R.T. -0.003 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 97858  
Ion Ratio Lower Upper  
105 100  
120 48.4 38.6 58.0  
91 67.6 46.2 69.2  
77 23.4 18.6 27.8







#75

1,3-Dichlorobenzene

Concen: 1.046 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC001

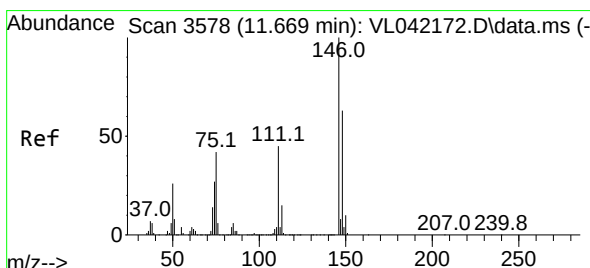
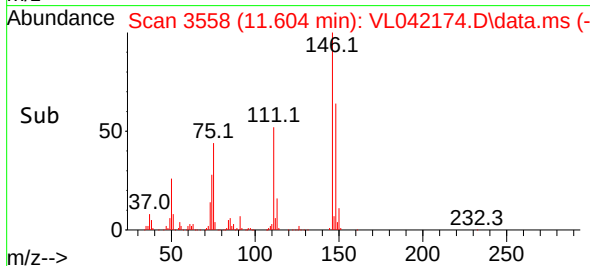
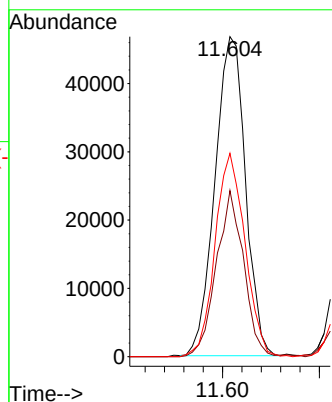
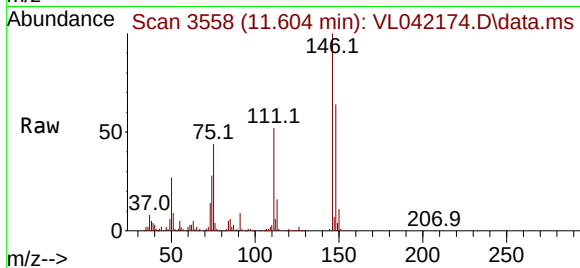
Tgt Ion:146 Resp: 51096

Ion Ratio Lower Upper

146 100

111 46.8 23.8 71.2

148 62.6 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 1.046 ppbv

RT: 11.669 min Scan# 3578

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

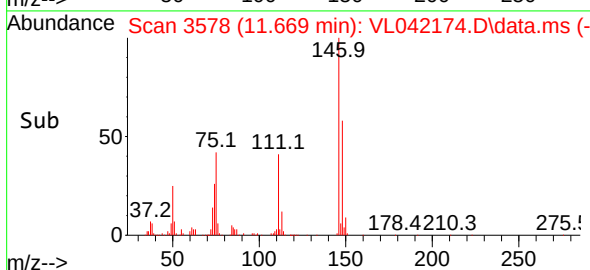
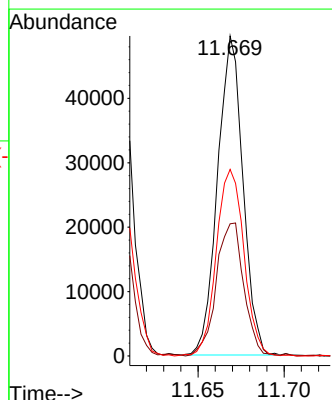
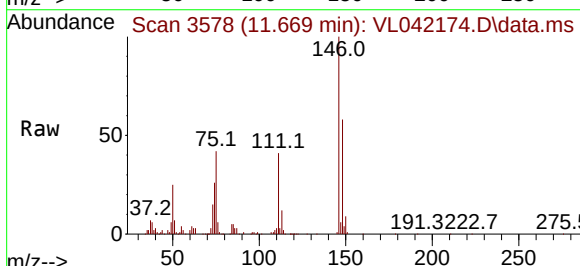
Tgt Ion:146 Resp: 50841

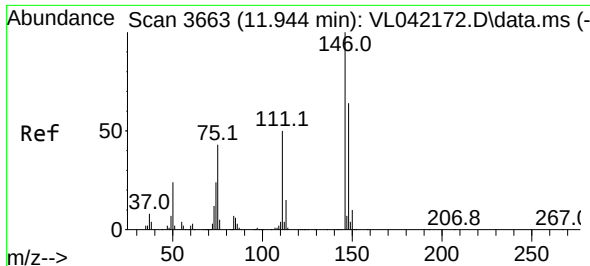
Ion Ratio Lower Upper

146 100

111 45.4 23.0 69.0

148 63.6 31.9 95.7

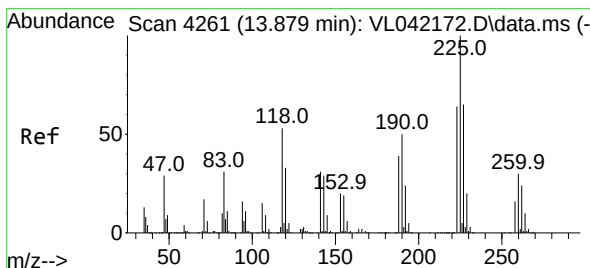
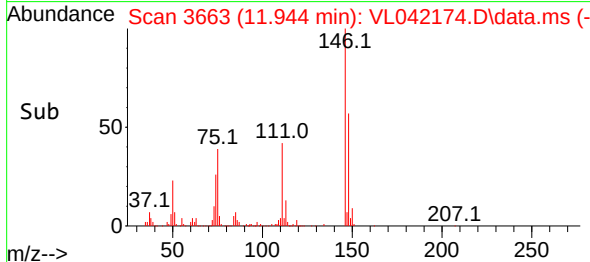
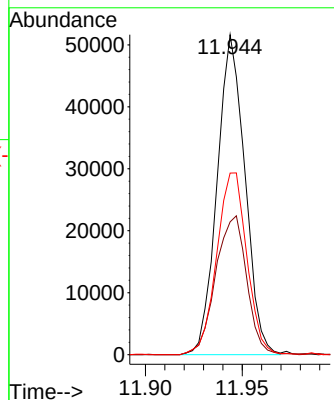
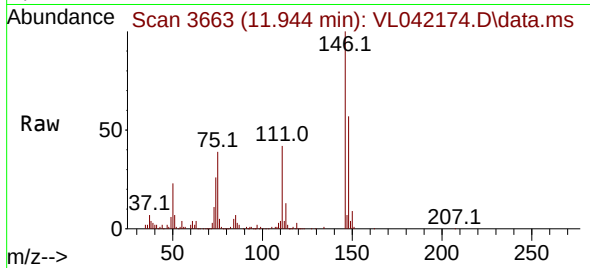




#77  
1,2-Dichlorobenzene  
Concen: 1.084 ppbv  
RT: 11.944 min Scan# 3663  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

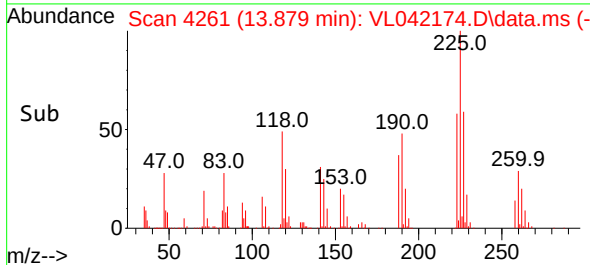
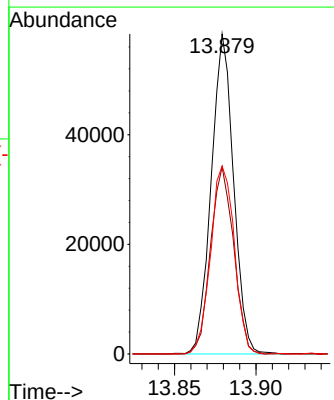
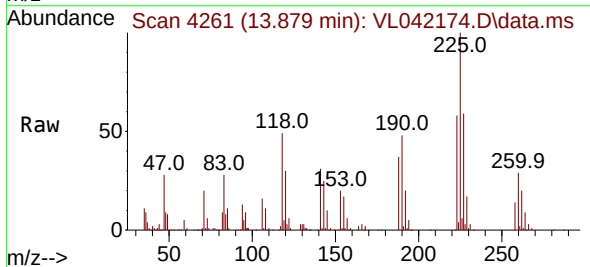
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

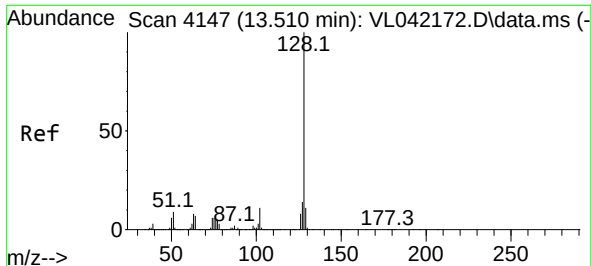
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 51523 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 48.6  | 24.8  | 74.3  |
| 148       | 61.9  | 31.6  | 94.8  |



#78  
Hexachloro-1,3-Butadiene  
Concen: 1.149 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 55611 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 60.8  | 50.6  | 76.0  |
| 227       | 62.3  | 51.2  | 76.8  |

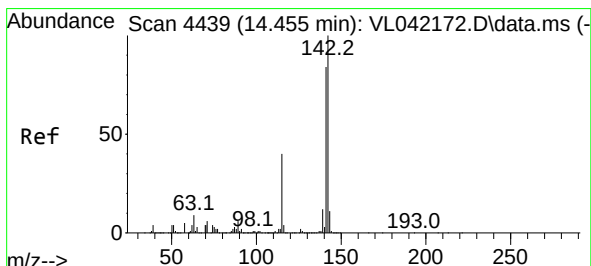
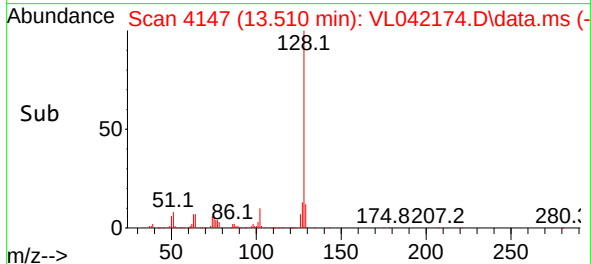
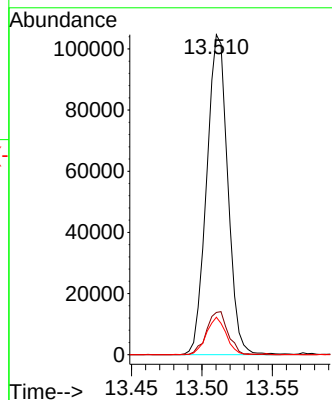
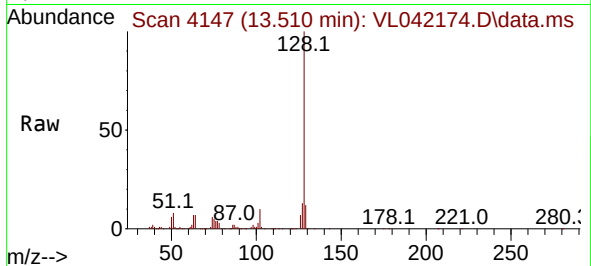




#79  
Naphthalene  
Concen: 1.120 ppbv  
RT: 13.510 min Scan# 4147  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

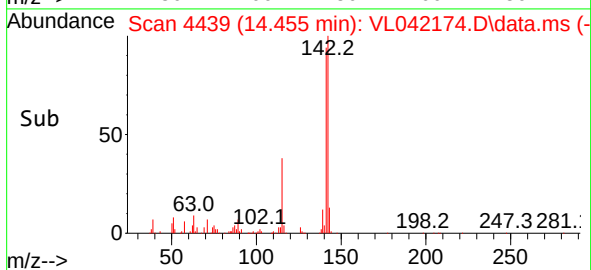
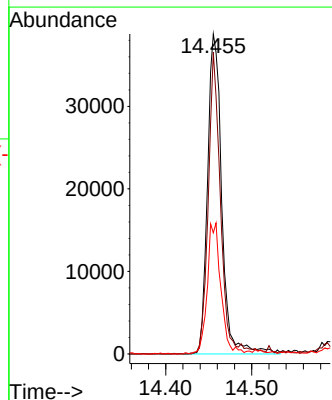
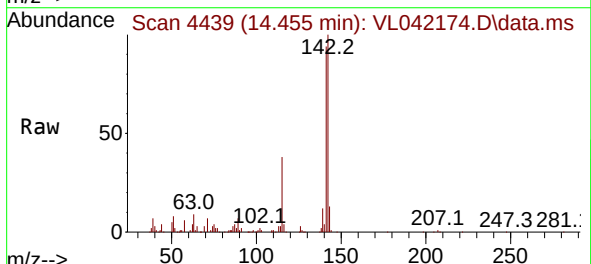
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

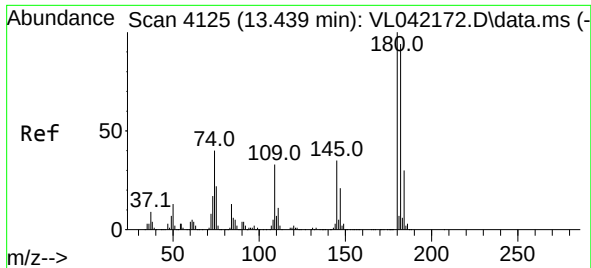
Tgt Ion:128 Resp: 109031  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.8 16.2  
129 11.7 9.0 13.4



#80  
Naphthalene,2-methyl-  
Concen: 0.939 ppbv  
RT: 14.455 min Scan# 4439  
Delta R.T. 0.000 min  
Lab File: VL042174.D  
Acq: 27 Mar 2025 09:30

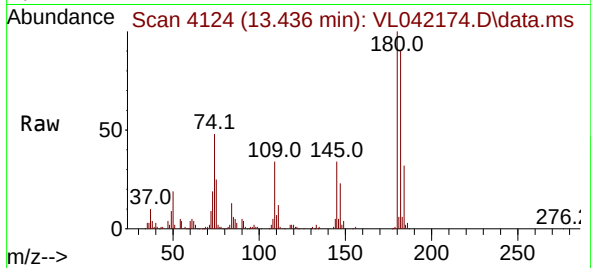
Tgt Ion:142 Resp: 44518  
Ion Ratio Lower Upper  
142 100  
141 83.4 66.3 99.5  
115 41.5 31.6 47.4



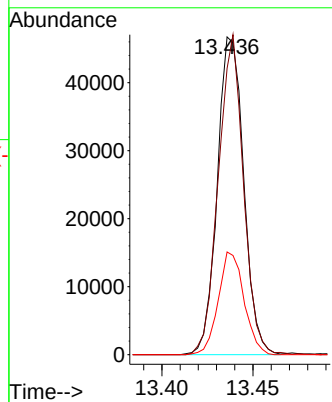
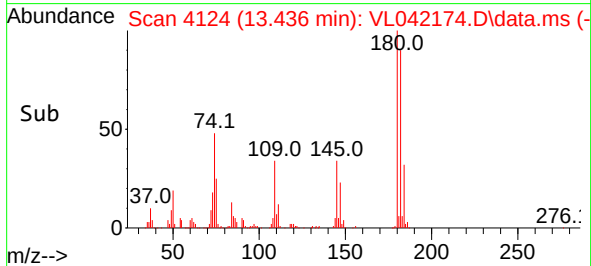


#81  
 1,2,4-Trichlorobenzene  
 Concen: 1.047 ppbv  
 RT: 13.436 min Scan# 41  
 Delta R.T. -0.003 min  
 Lab File: VL042174.D  
 Acq: 27 Mar 2025 09:30

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 47040 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 95.7  | 75.1  | 112.7 |
| 184       | 31.4  | 24.4  | 36.6  |



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

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 26 06:05:16 2022

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                    | 1.557 | 41  | 2054  | 0.167 | ppbv   | 92     |
| 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  | 9635  | 0.438 | ppbv # | 70     |
| 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           | 4.545 | 130 | 4992  | 0.230 | ppbv   | 95     |
| 39) 1,2-Dichloropropane       | 4.308 | 63  | 10123 | 0.535 | ppbv   | 92     |
| 40) 1,4-Dioxane               | 4.593 | 88  | 4487  | 0.457 | ppbv # | 24     |
| 41) Tetrahydrofuran           | 3.059 | 42  | 10856 | 0.502 | ppbv   | 94     |
| 42) Bromodichloromethane      | 4.483 | 83  | 20374 | 0.497 | ppbv # | 98     |
| 43) Methyl Methacrylate       | 4.875 | 69  | 6229  | 0.284 | ppbv # | 10     |
| 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 : VSTDIC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

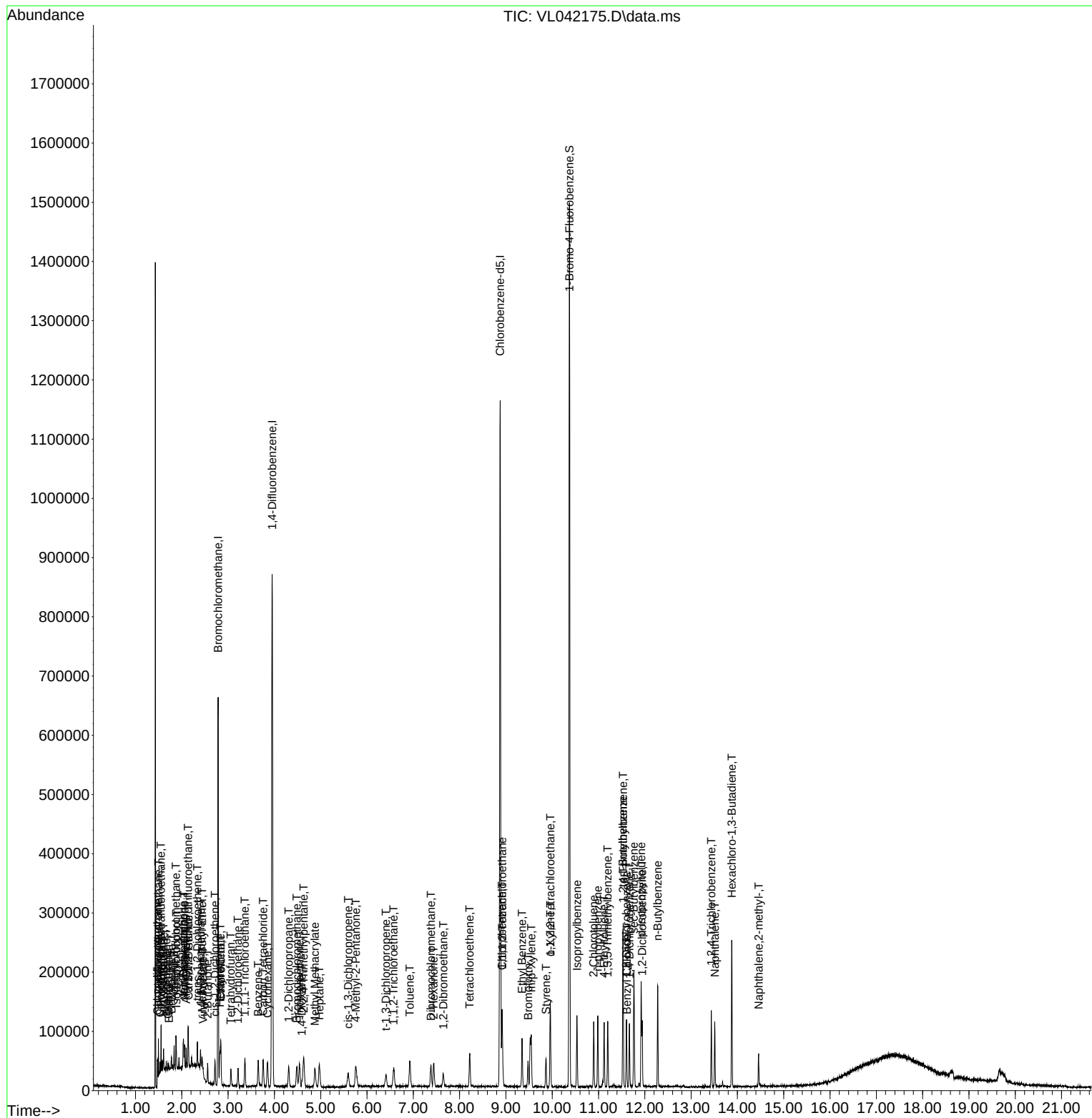
Quant Time: Mar 28 01:34:42 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 01:31:23 2025  
 Response via : Initial Calibration

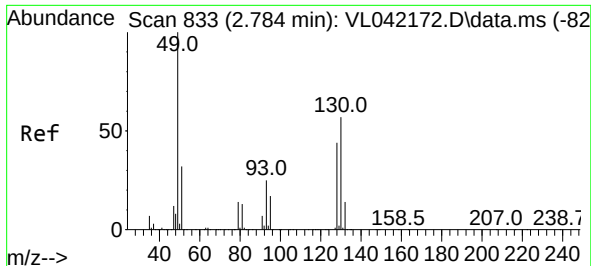
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 8584     | 0.297 | ppbv # | 91       |
| 47) 1,1,2-Trichloroethane     | 6.574  | 97   | 8374     | 0.419 | ppbv   | 96       |
| 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                | 9.548  | 91   | 18711    | 0.272 | ppbv # | 1        |
| 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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICCO.5

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 26 06:05:16 2022  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration

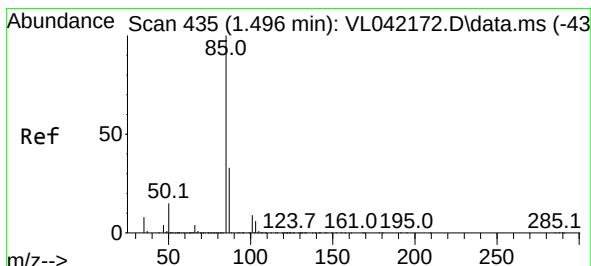
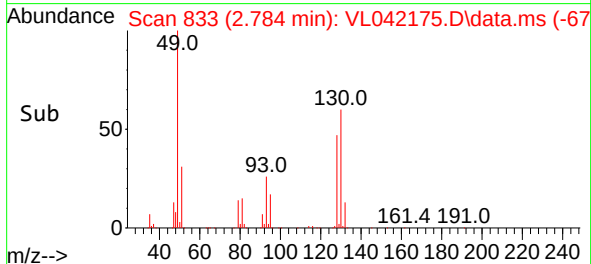
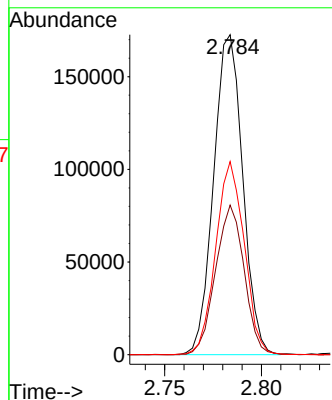
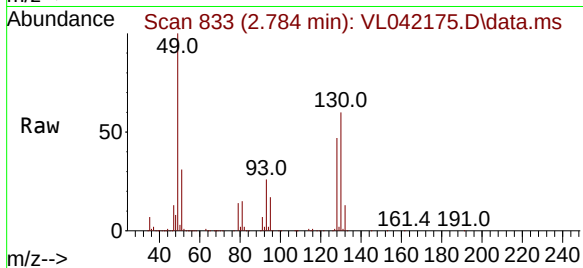




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 833  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

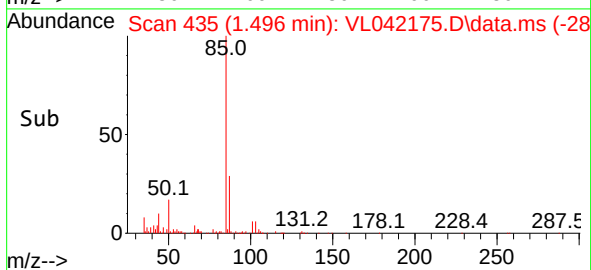
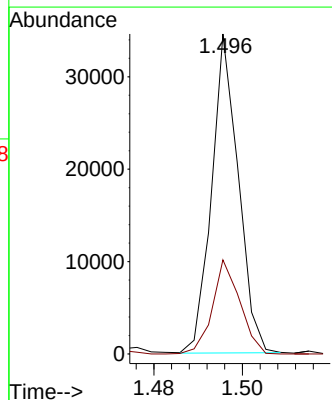
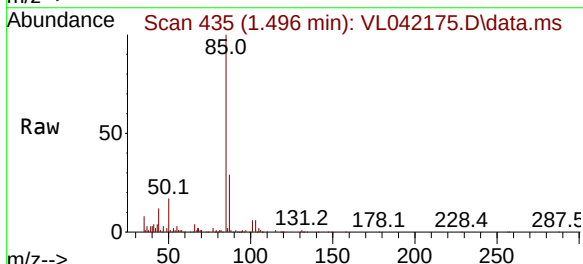
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 49 Resp: 180502  
Ion Ratio Lower Upper  
49 100  
128 46.1 22.9 68.5  
130 59.2 28.8 86.4

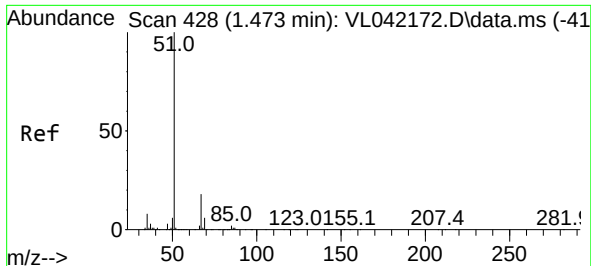


#2  
Dichlorodifluoromethane  
Concen: 0.542 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 85 Resp: 14455  
Ion Ratio Lower Upper  
85 100  
87 29.5 26.1 39.1



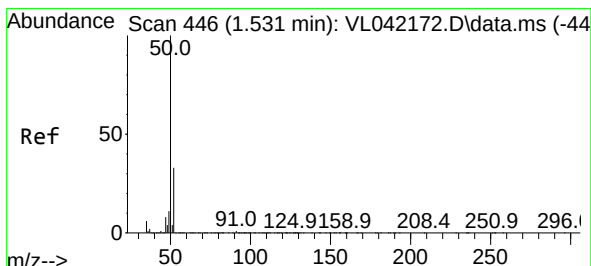
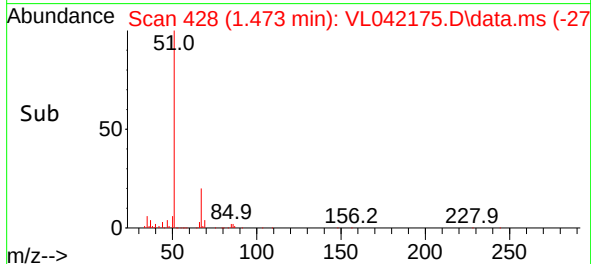
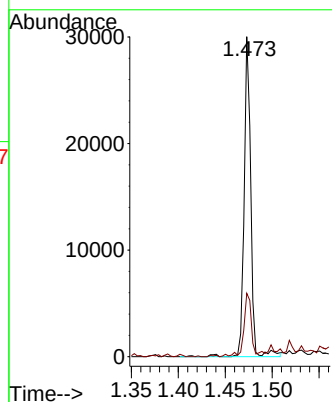
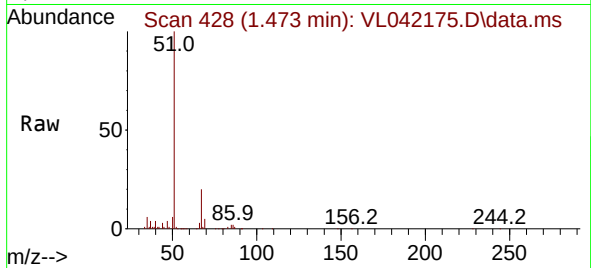




#3  
Chlorodifluoromethane  
Concen: 0.538 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

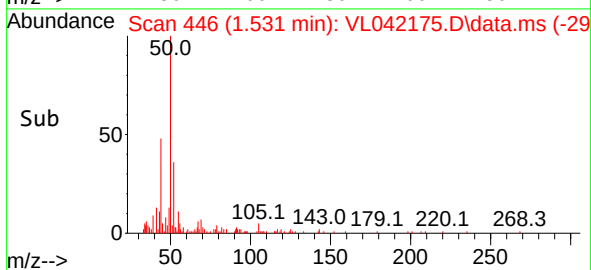
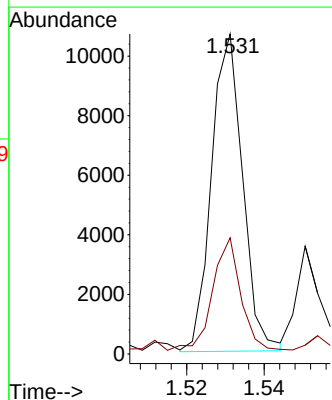
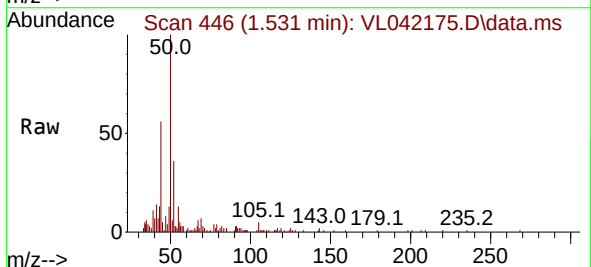
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

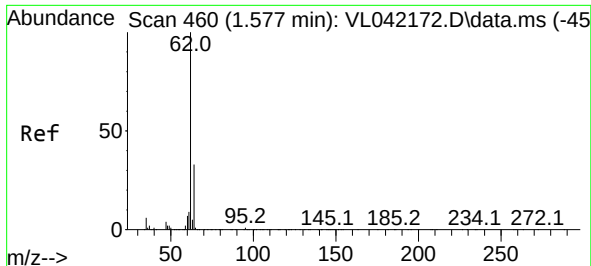
Tgt Ion: 51 Resp: 14637  
Ion Ratio Lower Upper  
51 100  
67 23.6 15.0 22.6#



#4  
Chloromethane  
Concen: 0.547 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 50 Resp: 5956  
Ion Ratio Lower Upper  
50 100  
52 36.1 26.1 39.1

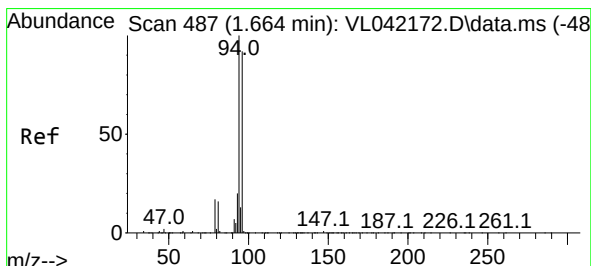
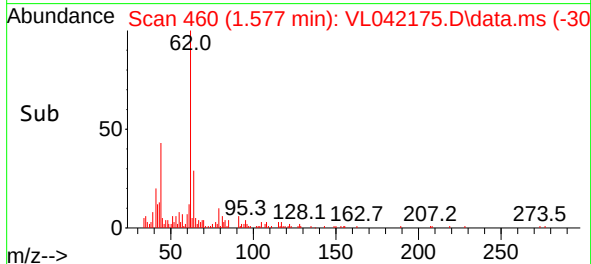
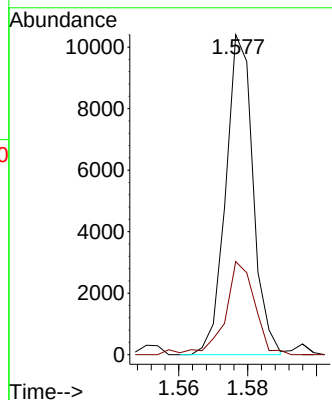
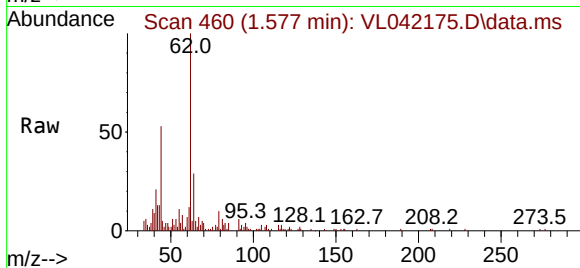




#5  
Vinyl Chloride  
Concen: 0.516 ppbv  
RT: 1.577 min Scan# 460  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

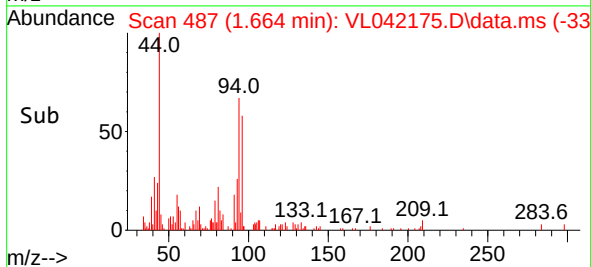
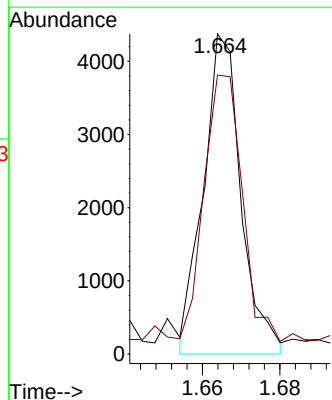
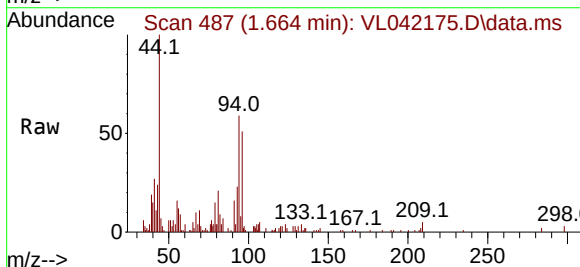
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

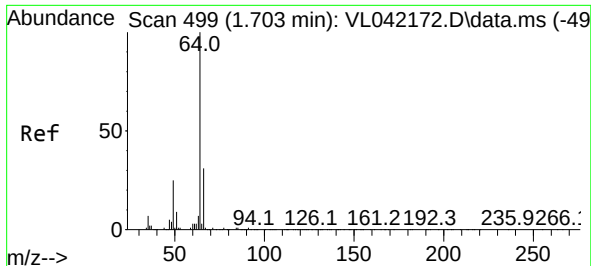
Tgt Ion: 62 Resp: 5732  
Ion Ratio Lower Upper  
62 100  
64 28.5 26.6 40.0



#6  
Bromomethane  
Concen: 0.597 ppbv  
RT: 1.664 min Scan# 487  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 94 Resp: 2949  
Ion Ratio Lower Upper  
94 100  
96 86.2 73.1 109.7

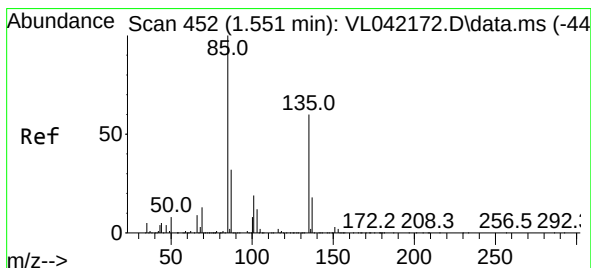
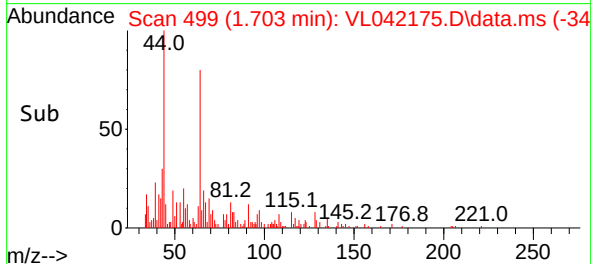
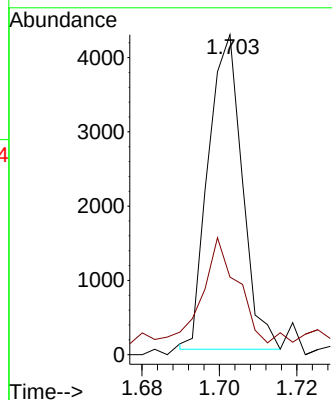
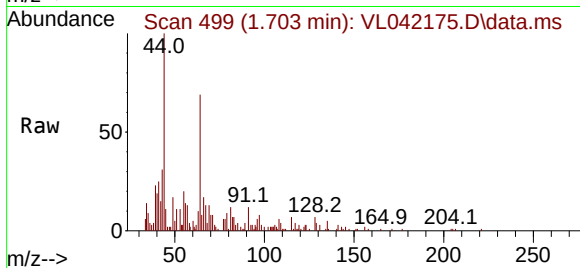




#7  
Chloroethane  
Concen: 0.591 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

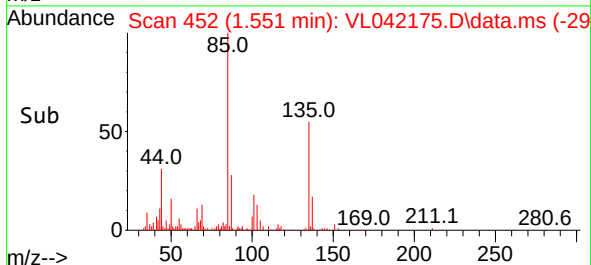
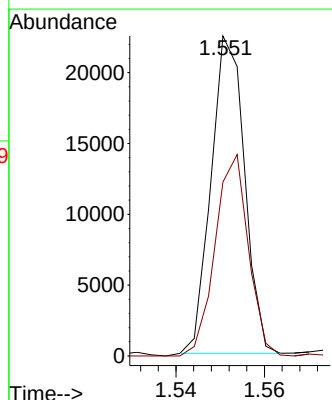
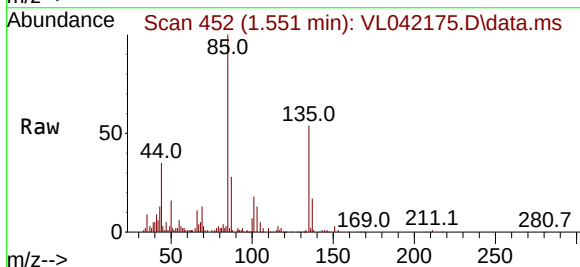
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

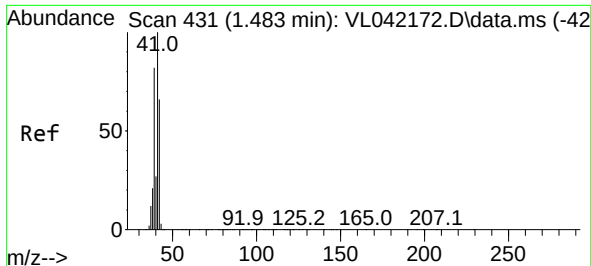
Tgt Ion: 64 Resp: 2582  
Ion Ratio Lower Upper  
64 100  
66 24.2 25.2 37.8#



#8  
Dichlorotetrafluoroethane  
Concen: 0.519 ppbv  
RT: 1.551 min Scan# 452  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 85 Resp: 11783  
Ion Ratio Lower Upper  
85 100  
135 63.7 52.4 78.6

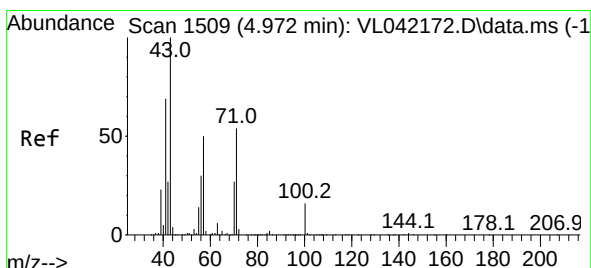
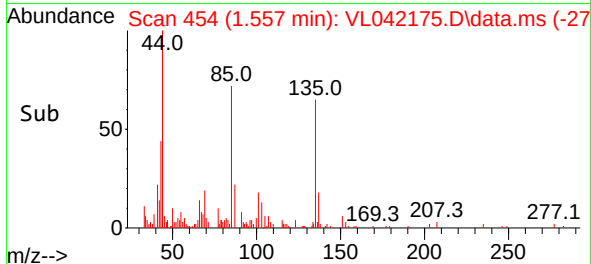
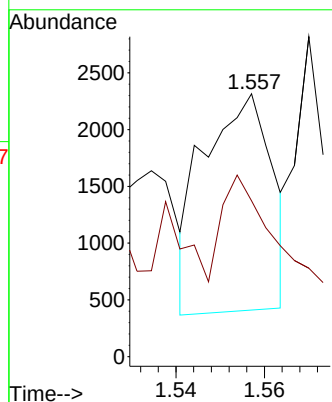
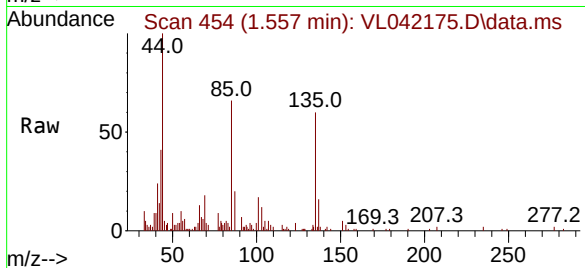




#9  
Propene  
Concen: 0.167 ppbv  
RT: 1.557 min Scan# 41  
Delta R.T. 0.074 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

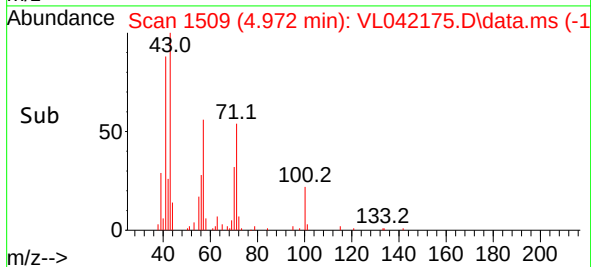
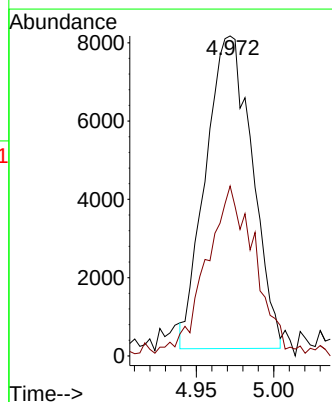
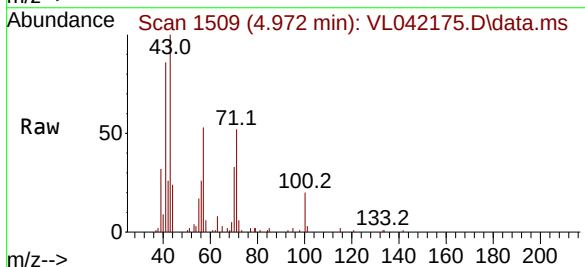
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.5

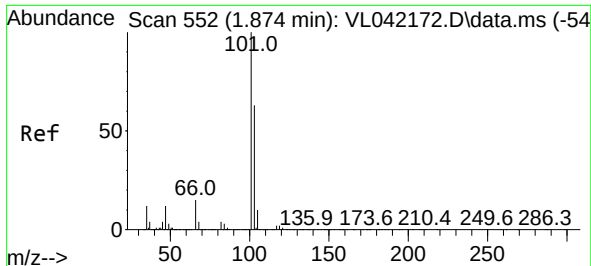
Tgt Ion: 41 Resp: 2054  
Ion Ratio Lower Upper  
41 100  
42 62.9 55.4 83.2



#10  
Heptane  
Concen: 0.502 ppbv  
RT: 4.972 min Scan# 1509  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 16673  
Ion Ratio Lower Upper  
43 100  
57 57.0 39.4 59.2

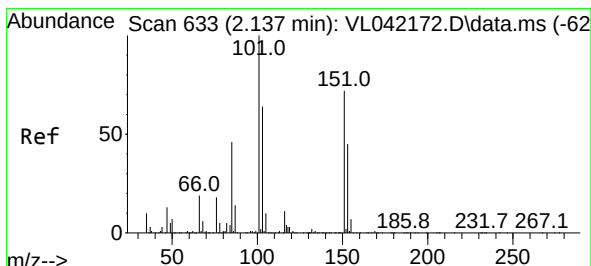
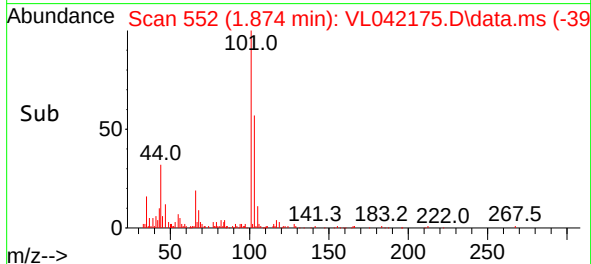
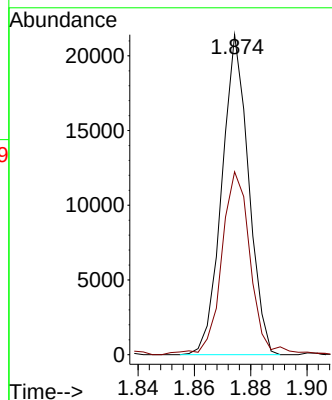
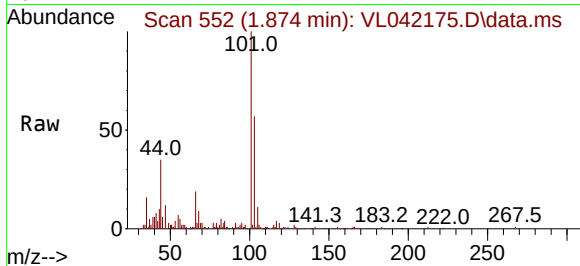




#11  
 Trichlorofluoromethane  
 Concen: 0.544 ppbv  
 RT: 1.874 min Scan# 511  
 Delta R.T. -0.000 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

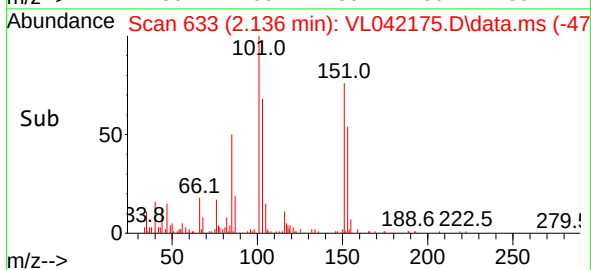
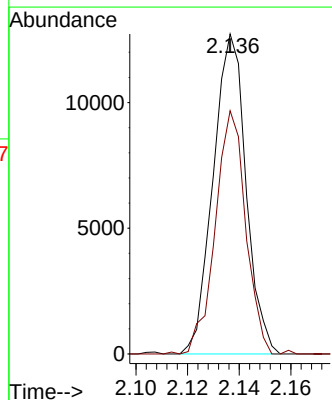
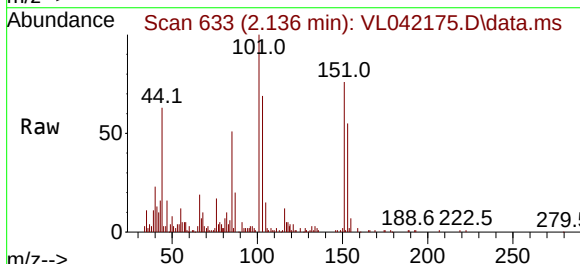
Instrument :  
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 ClientSampleId :  
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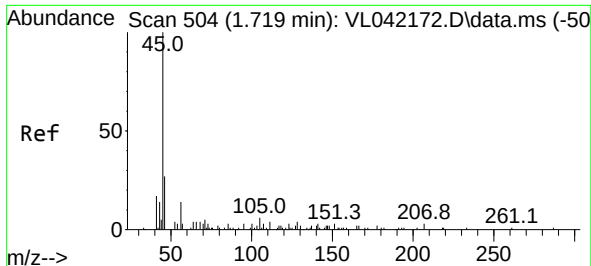
Tgt Ion:101 Resp: 14099  
 Ion Ratio Lower Upper  
 101 100  
 103 56.3 50.2 75.2



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.528 ppbv  
 RT: 2.136 min Scan# 633  
 Delta R.T. -0.000 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

Tgt Ion:101 Resp: 11252  
 Ion Ratio Lower Upper  
 101 100  
 151 70.6 57.1 85.7

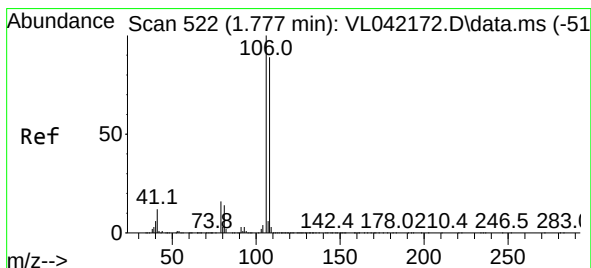
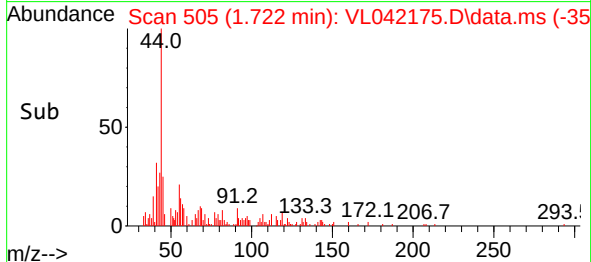
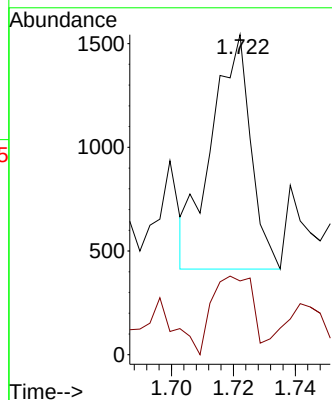
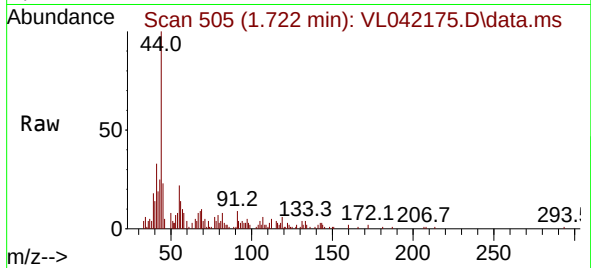




#13  
Ethanol  
Concen: 1.038 ppbv  
RT: 1.722 min Scan# 504  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

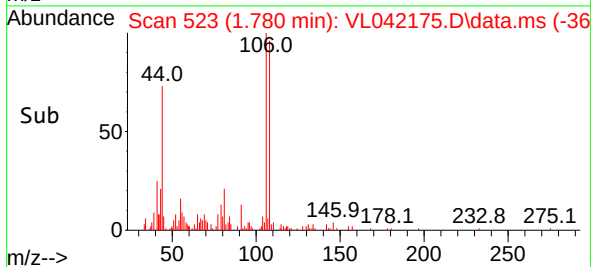
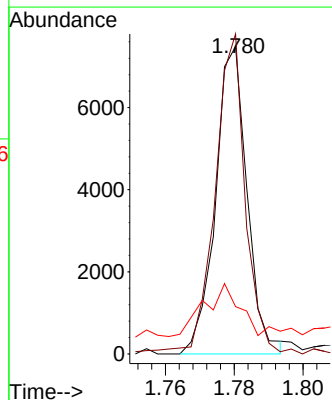
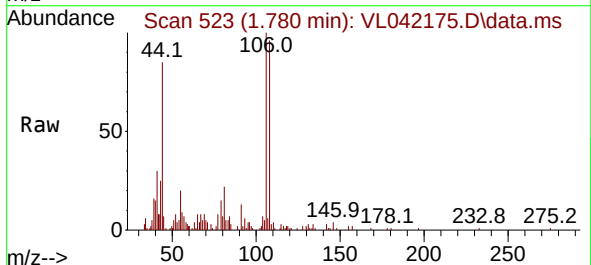
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

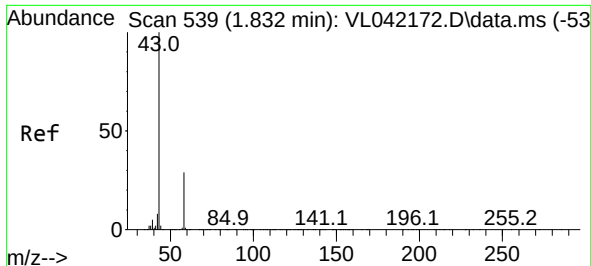
Tgt Ion: 45 Resp: 997  
Ion Ratio Lower Upper  
45 100  
46 94.5 20.2 80.8#



#14  
Bromoethene  
Concen: 0.584 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 108 Resp: 4770  
Ion Ratio Lower Upper  
108 100  
106 101.3 86.8 130.2  
79 42.6 15.0 22.6#

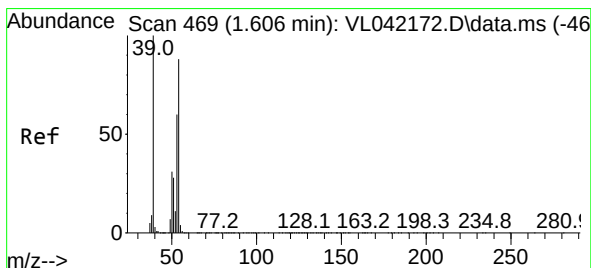
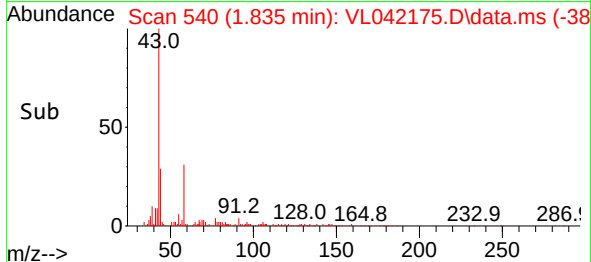
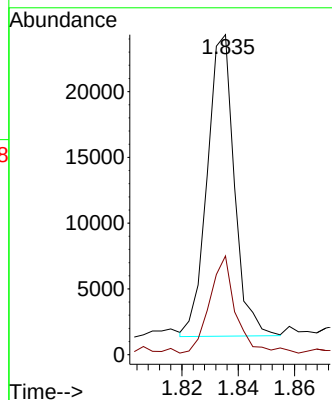
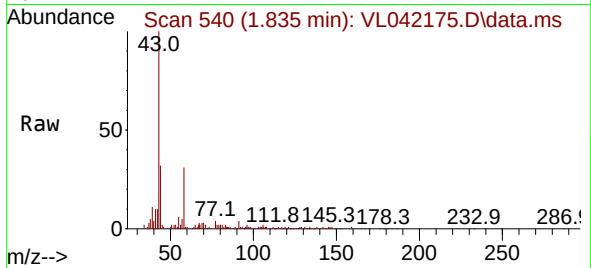




#15  
Acetone  
Concen: 0.607 ppbv  
RT: 1.835 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

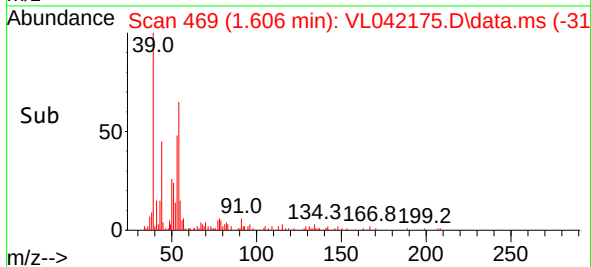
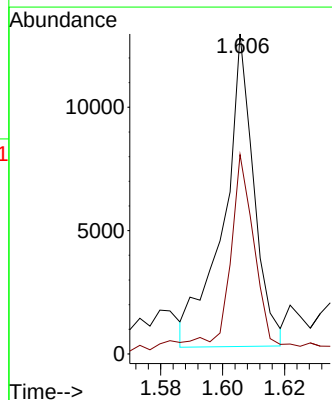
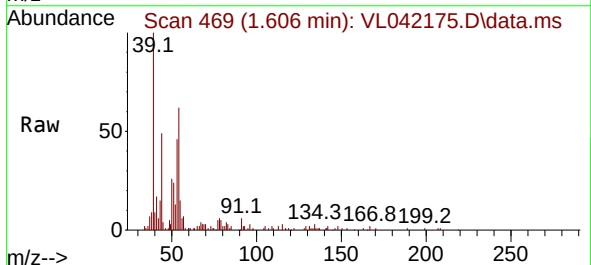
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

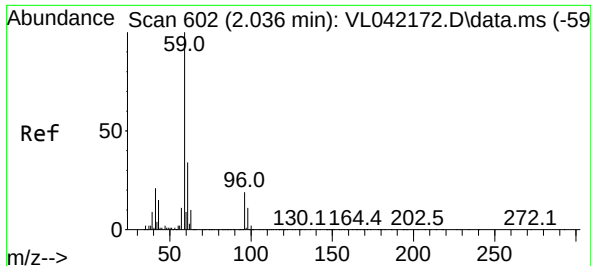
Tgt Ion: 43 Resp: 15331  
Ion Ratio Lower Upper  
43 100  
58 37.1 23.2 34.8#



#16  
1,3-Butadiene  
Concen: 0.757 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 39 Resp: 8594  
Ion Ratio Lower Upper  
39 100  
54 60.7 60.7 91.1





#17

tert-Butyl alcohol

Concen: 0.556 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA\_L

ClientSampleId :

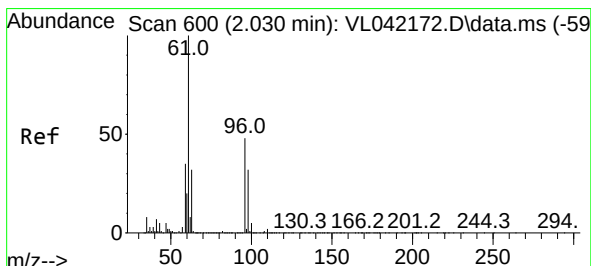
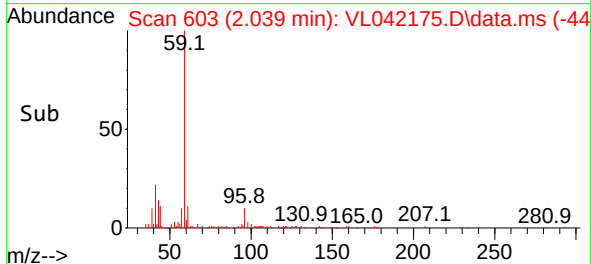
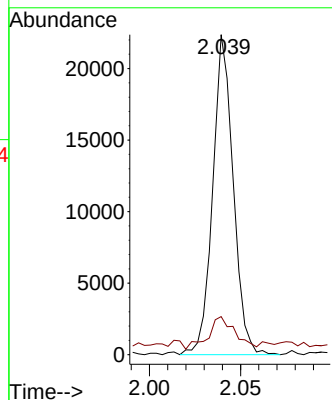
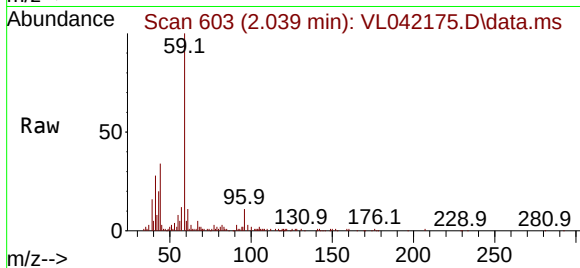
VSTDICC0.5

Tgt Ion: 59 Resp: 17467

Ion Ratio Lower Upper

59 100

57 12.1 8.9 13.3



#18

1,1-Dichloroethene

Concen: 0.565 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

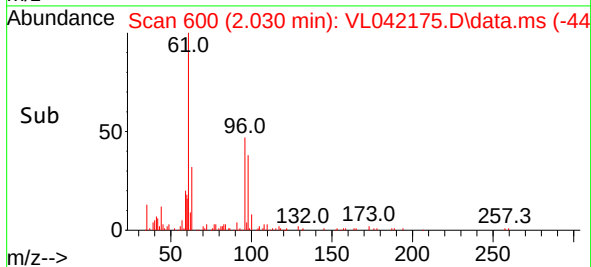
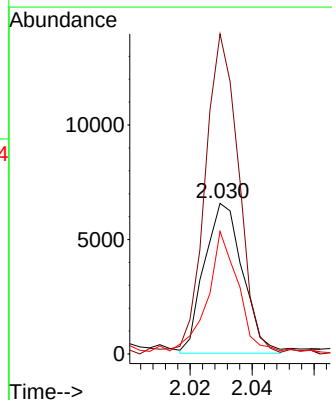
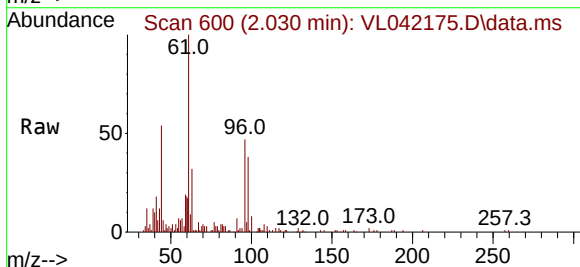
Tgt Ion: 96 Resp: 5634

Ion Ratio Lower Upper

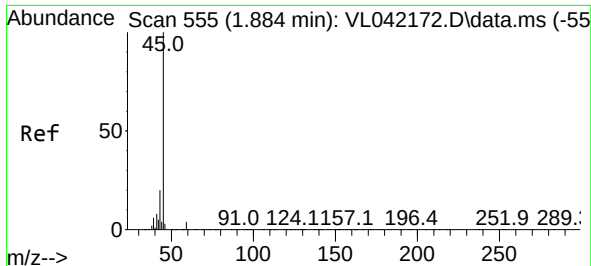
96 100

61 216.6 167.6 251.4

98 81.2 53.5 80.3#



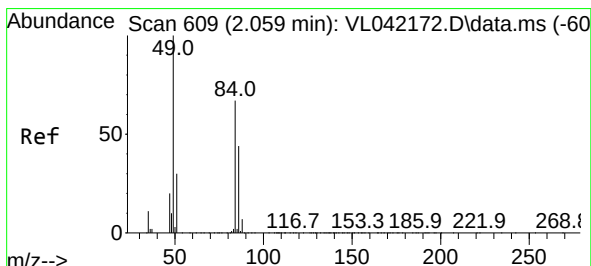
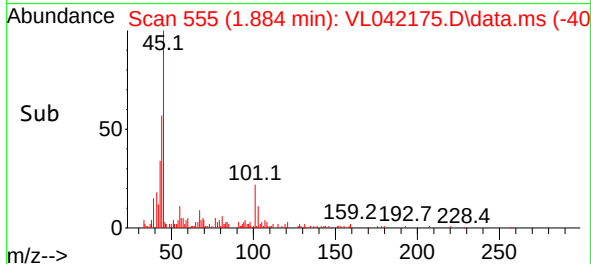
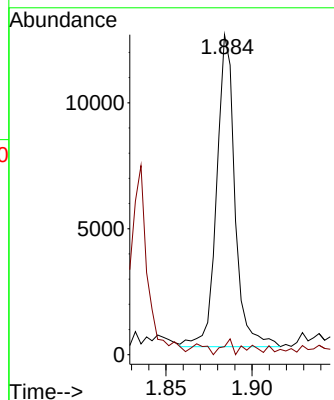
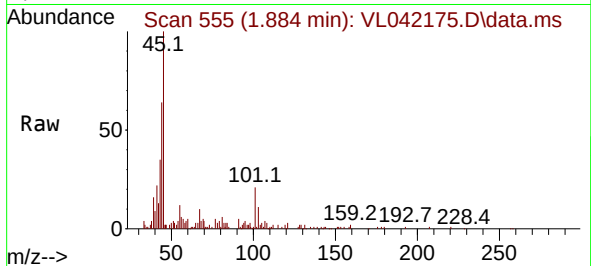




#19  
Isopropyl Alcohol  
Concen: 0.644 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

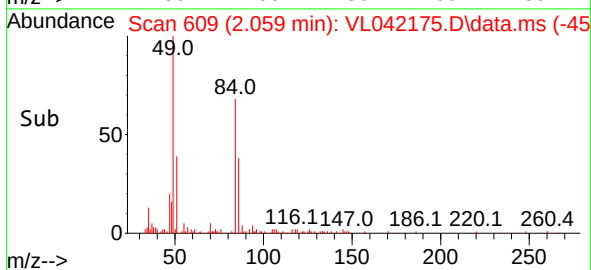
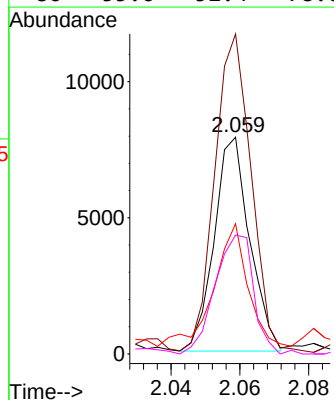
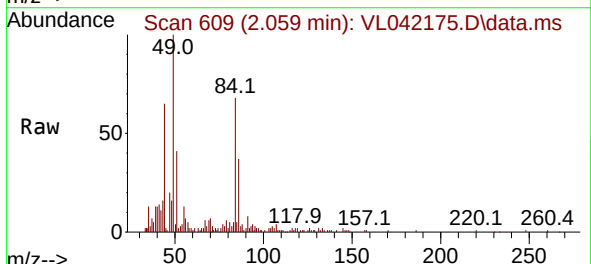
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

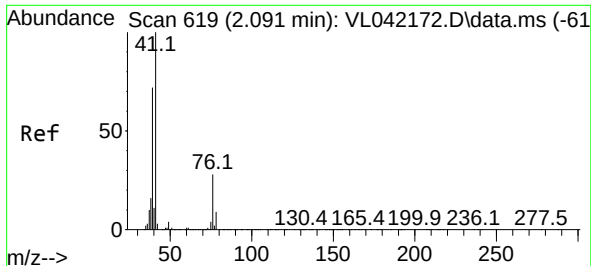
Tgt Ion: 45 Resp: 9171  
Ion Ratio Lower Upper  
45 100  
58 5.5 36.9 55.3#



#20  
Methylene Chloride  
Concen: 0.599 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 84 Resp: 5634  
Ion Ratio Lower Upper  
84 100  
49 148.1 120.2 180.4  
51 56.1 37.4 56.0#  
86 55.6 52.4 78.6

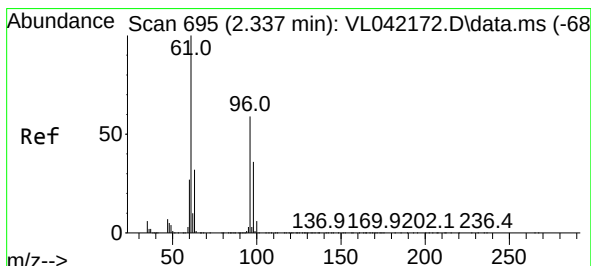
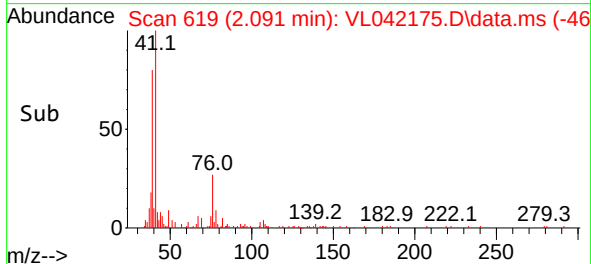
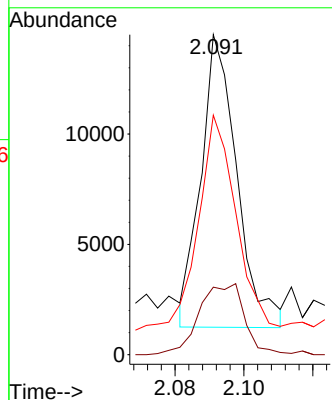
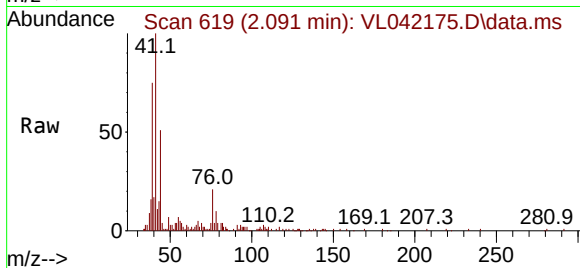




#21  
 Allyl Chloride  
 Concen: 0.541 ppbv  
 RT: 2.091 min Scan# 619  
 Delta R.T. -0.000 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

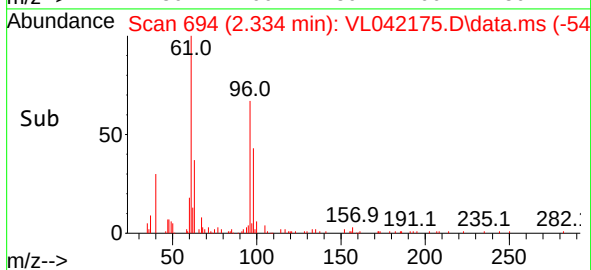
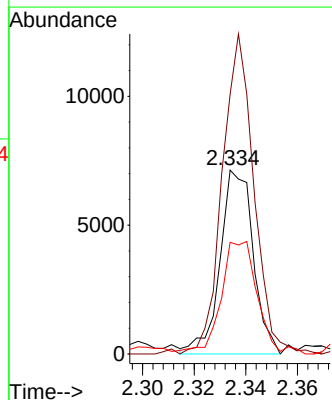
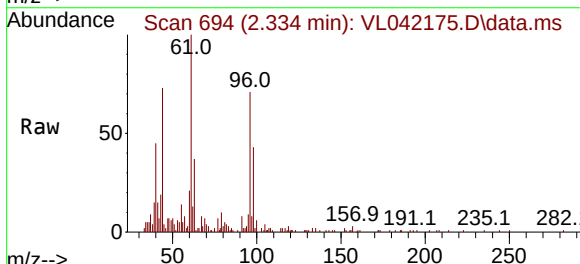
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

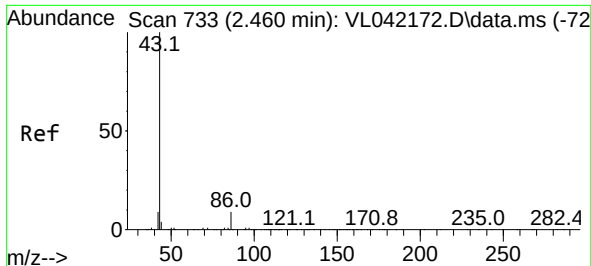
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 9632  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 30.9  | 24.1  | 36.1  |
| 39       | 88.9  | 61.1  | 91.7  |



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.546 ppbv  
 RT: 2.334 min Scan# 694  
 Delta R.T. -0.003 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 6353  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 141.3 | 136.6 | 204.8 |
| 98       | 59.4  | 49.4  | 74.2  |

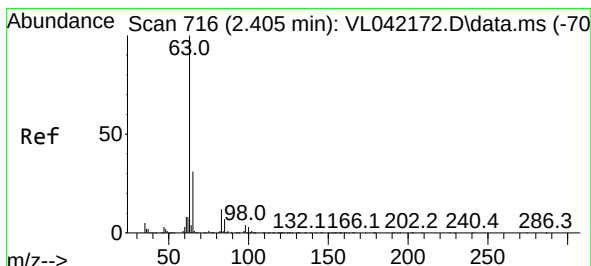
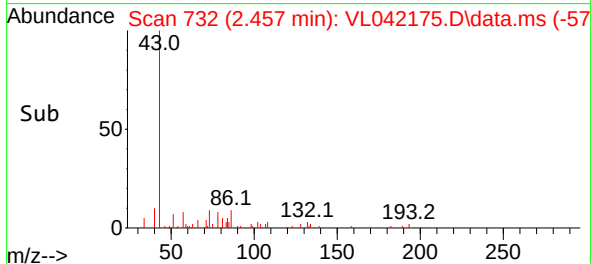
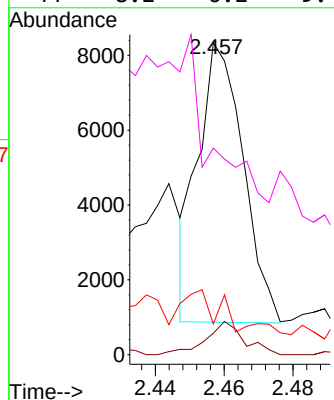
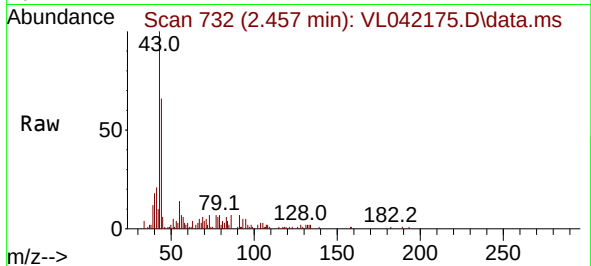




#23  
Vinyl Acetate  
Concen: 0.649 ppbv  
RT: 2.457 min Scan# 716  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

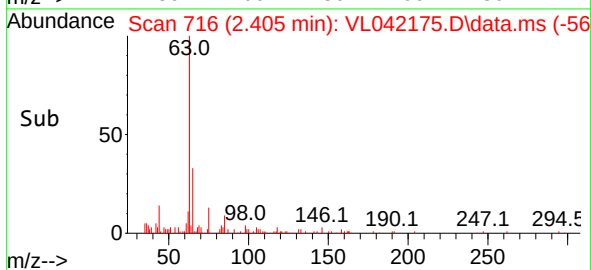
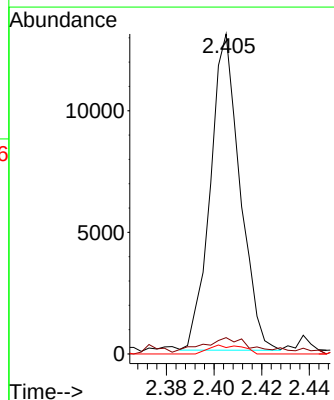
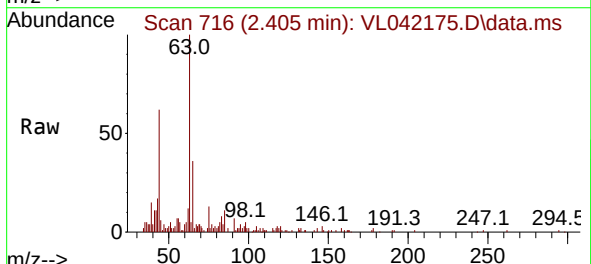
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

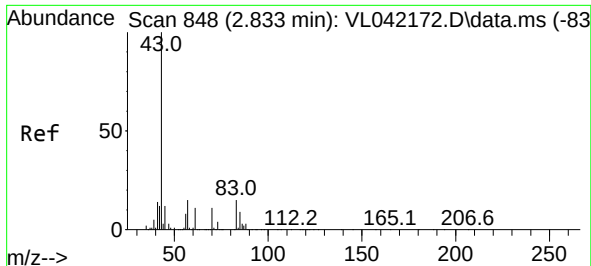
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 6809  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 7.7   | 5.5   | 8.3   |
| 42       | 3.2   | 8.6   | 13.0  |
| 44       | 8.2   | 6.2   | 9.4   |



#24  
1,1-Dichloroethane  
Concen: 0.527 ppbv  
RT: 2.405 min Scan# 716  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 11258 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 3.7   | 2.3   | 6.8   |
| 100      | 2.0   | 1.6   | 4.7   |

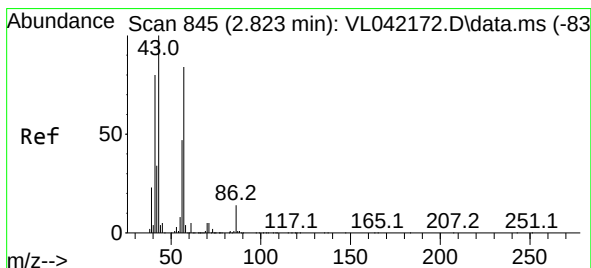
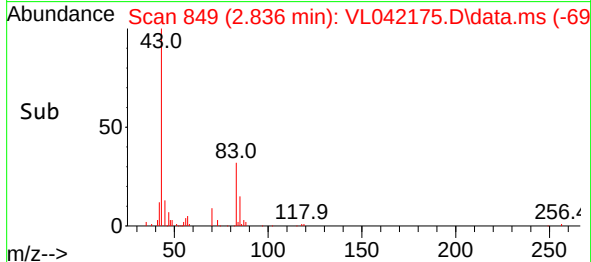
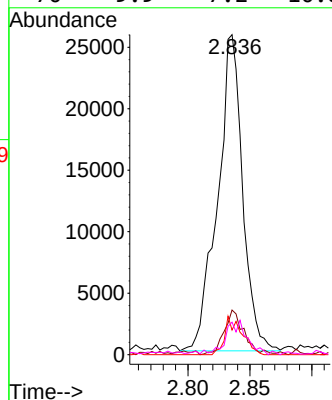
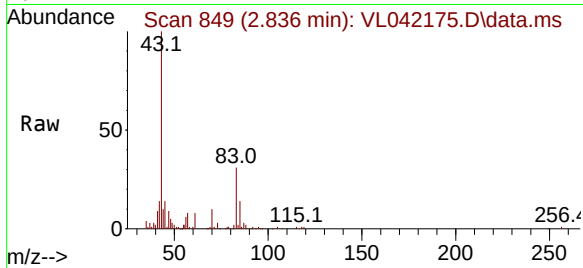




#25  
Ethyl Acetate  
Concen: 0.553 ppbv  
RT: 2.836 min Scan# 84  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

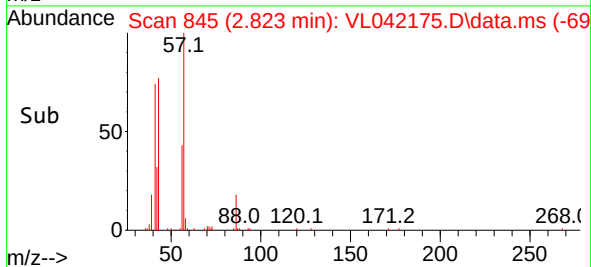
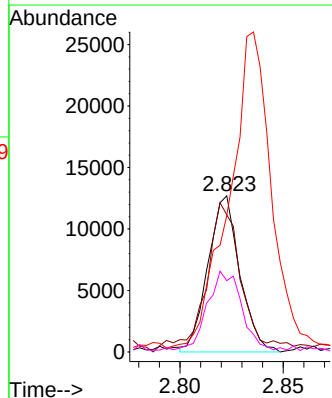
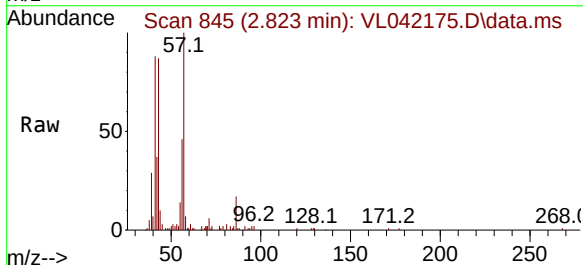
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

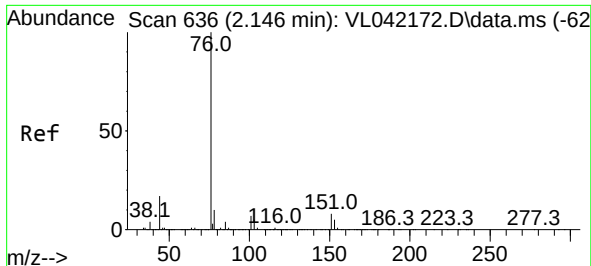
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 36258 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 11.2     | 8.2 12.2    |
| 61 8.3      | 7.3 10.9    |
| 70 9.9      | 7.2 10.8    |



#26  
Hexane  
Concen: 0.538 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

|             |             |
|-------------|-------------|
| Tgt Ion: 57 | Resp: 13605 |
| Ion Ratio   | Lower Upper |
| 57 100      |             |
| 41 92.1     | 76.6 114.8  |
| 43 273.4    | 207.8 311.8 |
| 56 64.6     | 43.6 65.4   |

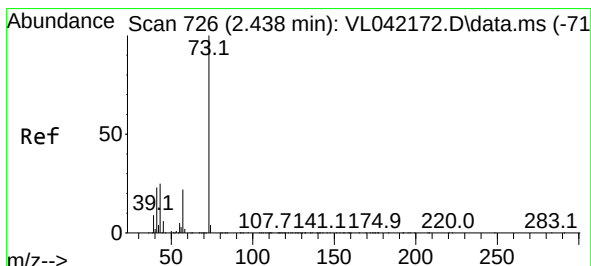
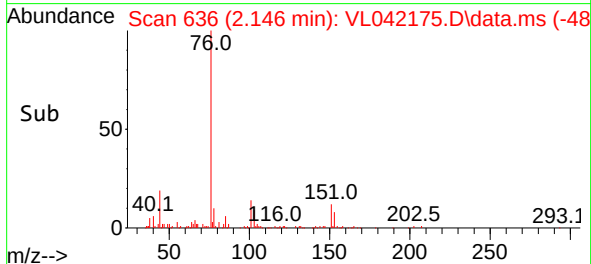
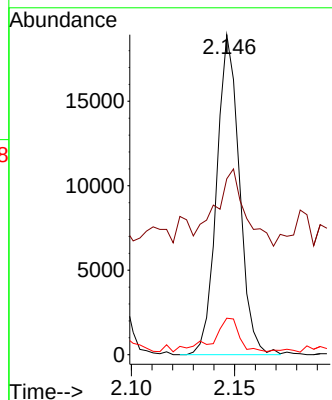
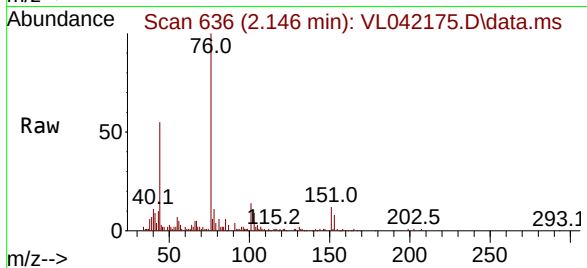




#27  
Carbon Disulfide  
Concen: 0.535 ppbv  
RT: 2.146 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

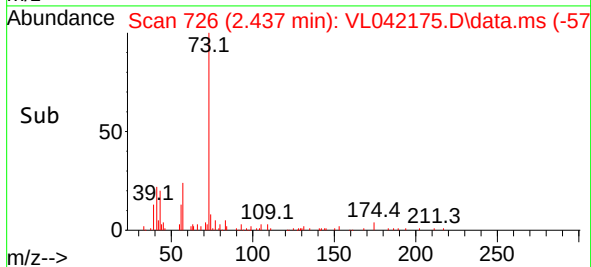
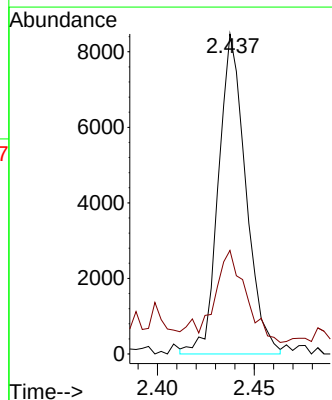
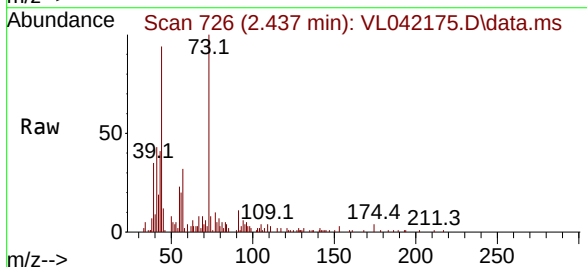
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

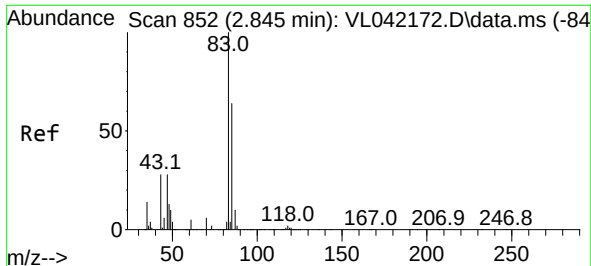
Tgt Ion: 76 Resp: 14510  
Ion Ratio Lower Upper  
76 100  
44 115.5 14.7 22.1#  
78 14.9 9.3 13.9#



#28  
Methyl tert-Butyl Ether  
Concen: 0.527 ppbv  
RT: 2.437 min Scan# 726  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 73 Resp: 8310  
Ion Ratio Lower Upper  
73 100  
57 31.1 20.5 30.7#





#29

Chloroform

Concen: 0.544 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA\_L

ClientSampleId :

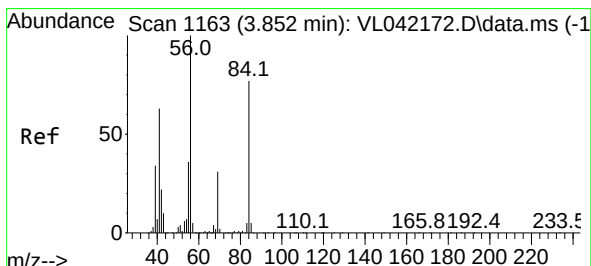
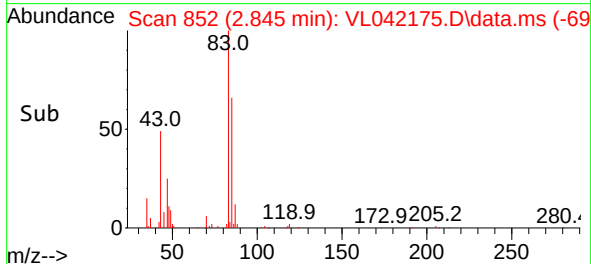
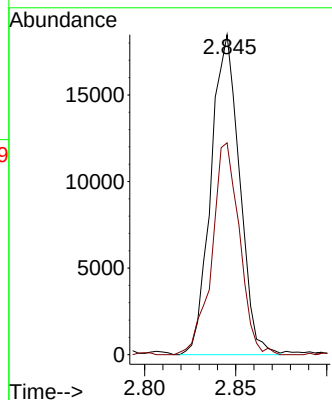
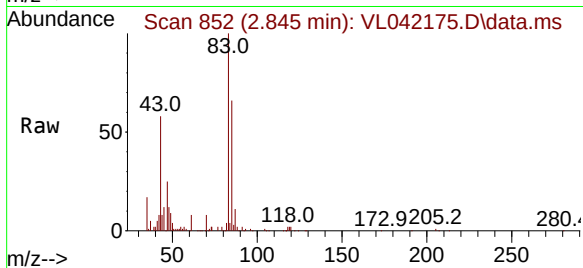
VSTDIC0.5

Tgt Ion: 83 Resp: 20149

Ion Ratio Lower Upper

83 100

85 66.2 51.4 77.2



#30

Cyclohexane

Concen: 0.438 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

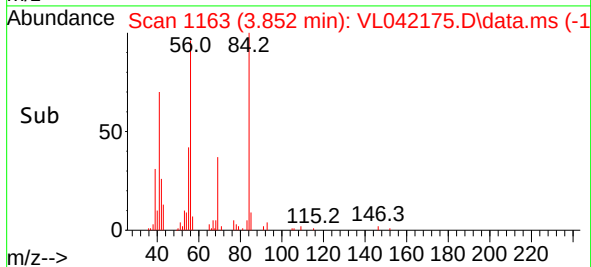
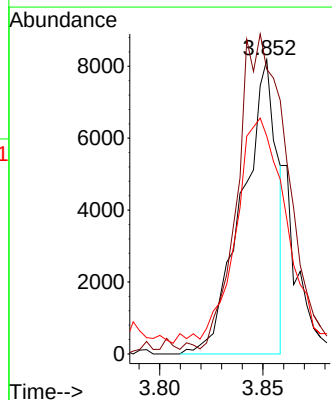
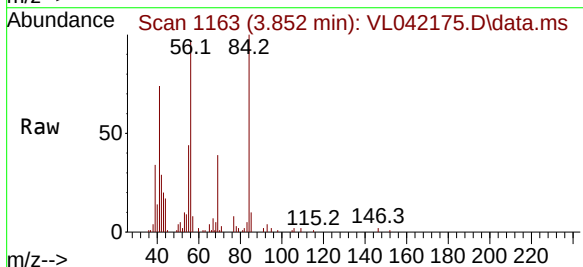
Tgt Ion: 84 Resp: 9635

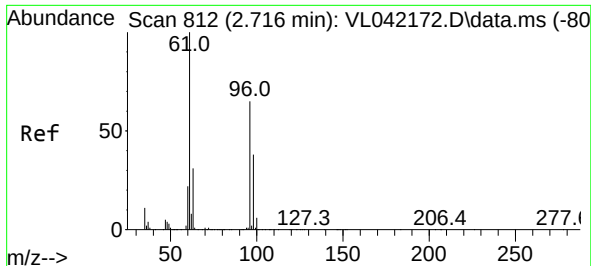
Ion Ratio Lower Upper

84 100

56 158.1 102.8 154.2#

41 117.1 66.5 99.7#

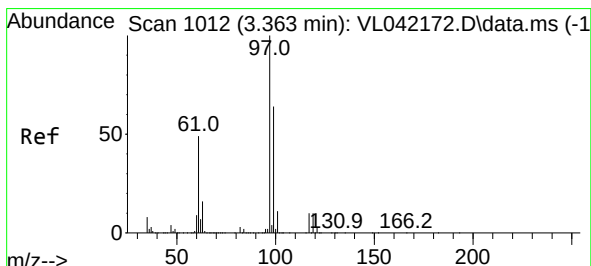
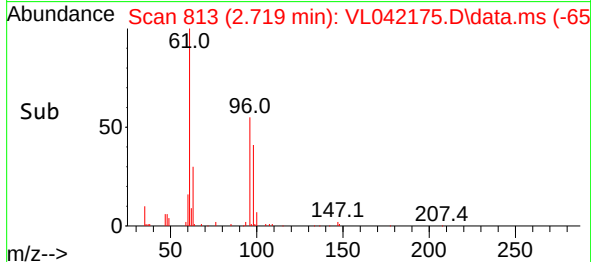
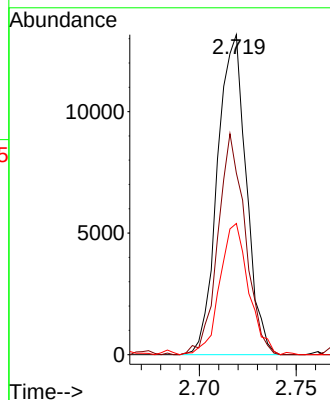
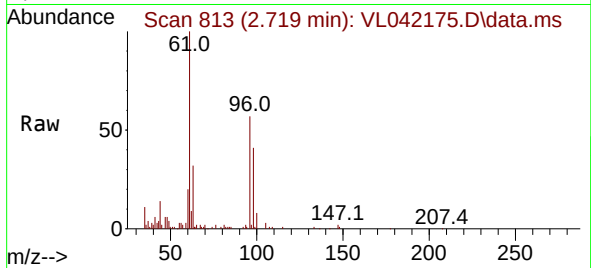




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.529 ppbv  
 RT: 2.719 min Scan# 81  
 Delta R.T. 0.003 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

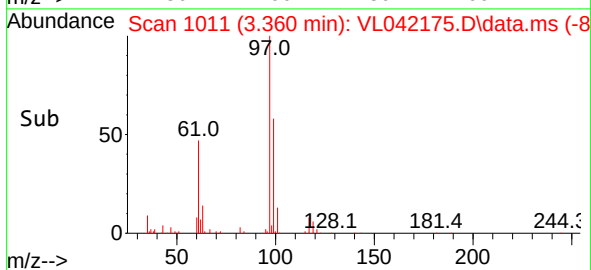
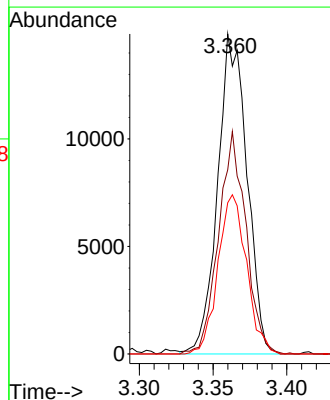
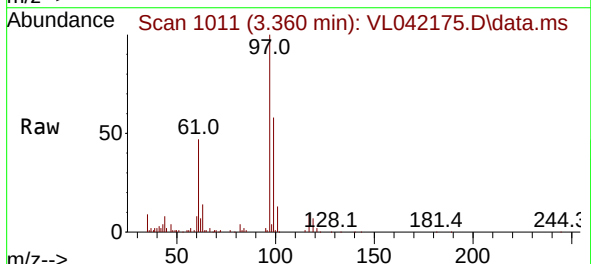
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

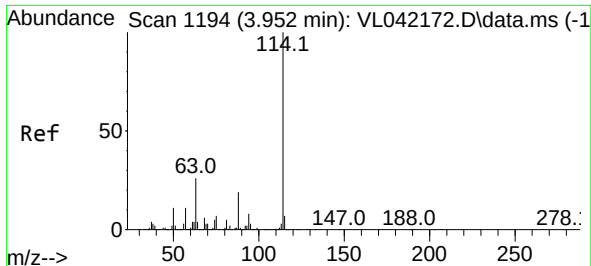
Tgt Ion: 61 Resp: 13601  
 Ion Ratio Lower Upper  
 61 100  
 96 56.8 51.8 77.8  
 98 41.0 30.6 46.0



#32  
 1,1,1-Trichloroethane  
 Concen: 0.485 ppbv  
 RT: 3.360 min Scan# 1011  
 Delta R.T. -0.003 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

Tgt Ion: 97 Resp: 20567  
 Ion Ratio Lower Upper  
 97 100  
 99 64.8 51.5 77.3  
 61 48.6 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.5

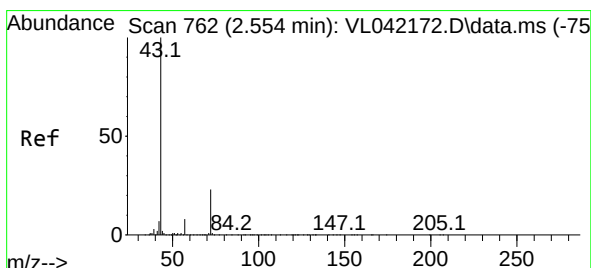
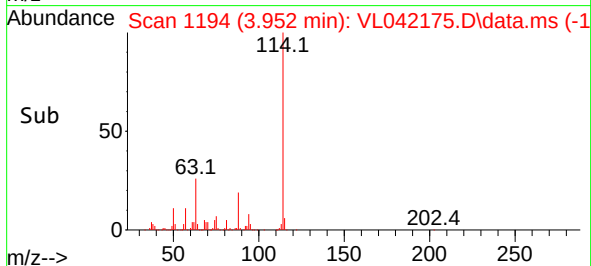
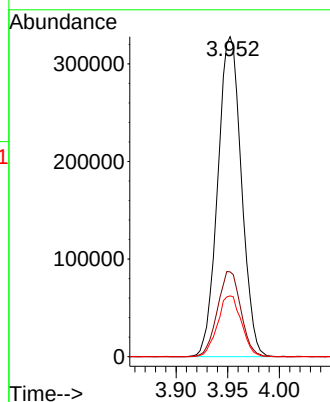
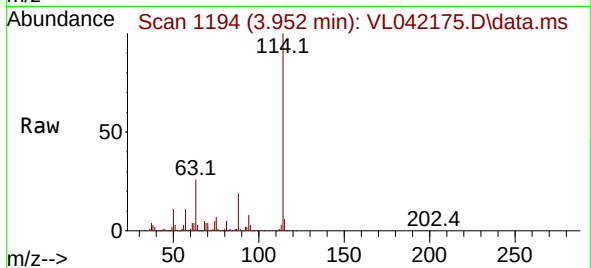
Tgt Ion:114 Resp: 523832

Ion Ratio Lower Upper

114 100

63 26.4 20.7 31.1

88 19.1 15.0 22.4



#34

2-Butanone

Concen: 0.520 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042175.D

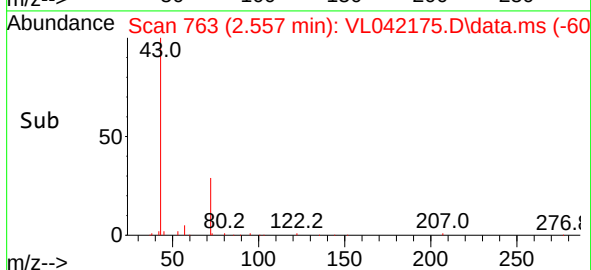
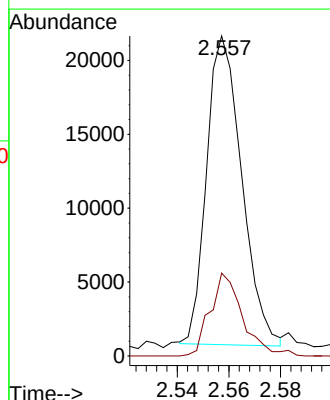
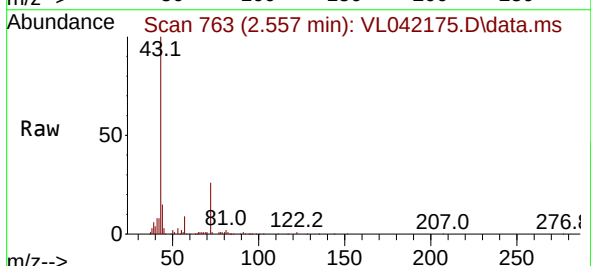
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 19739

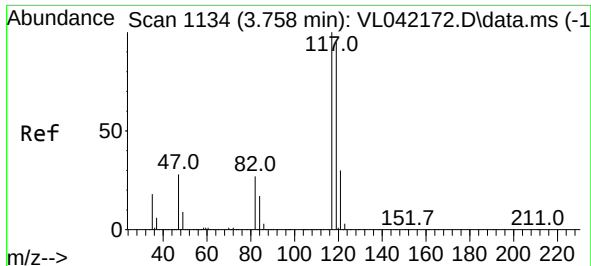
Ion Ratio Lower Upper

43 100

72 24.8 18.2 27.2



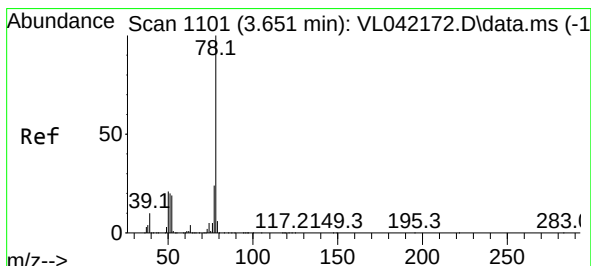
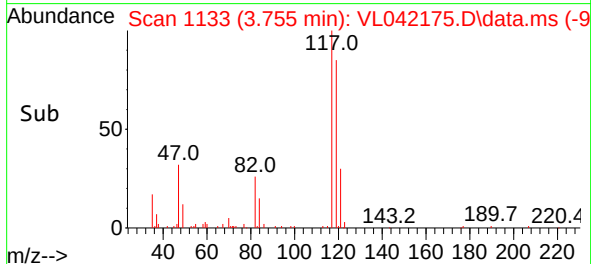
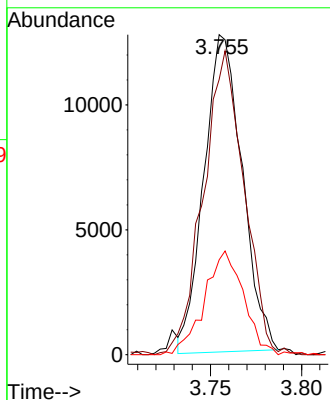
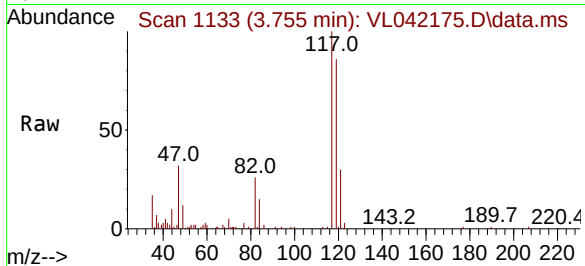




#35  
Carbon Tetrachloride  
Concen: 0.460 ppbv  
RT: 3.755 min Scan# 1133  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

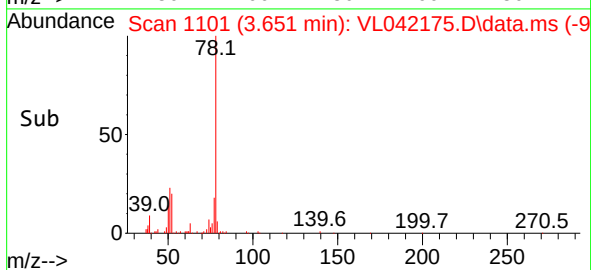
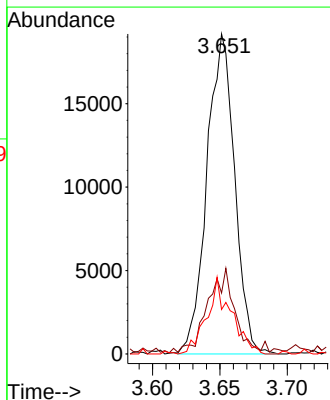
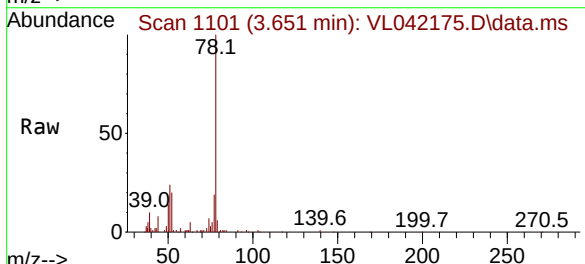
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

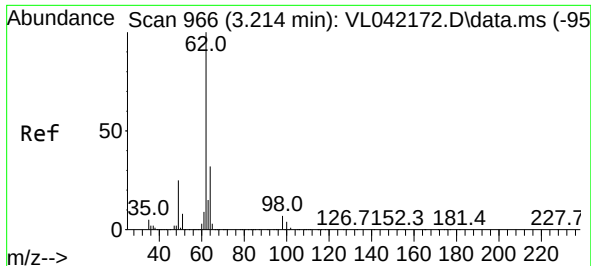
Tgt Ion:117 Resp: 18558  
Ion Ratio Lower Upper  
117 100  
119 86.4 76.2 114.2  
121 30.1 24.2 36.4



#36  
Benzene  
Concen: 0.529 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 78 Resp: 27488  
Ion Ratio Lower Upper  
78 100  
77 18.5 19.1 28.7#  
50 13.9 16.6 24.8#

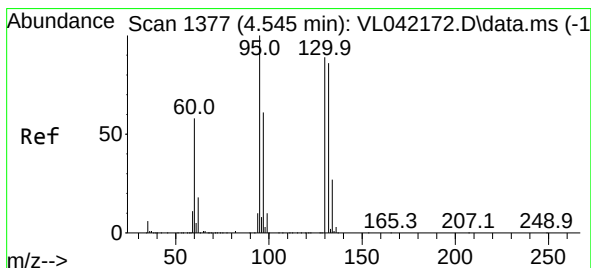
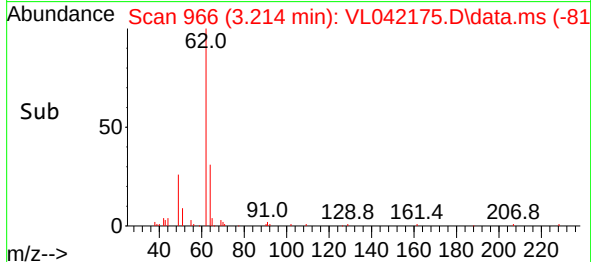
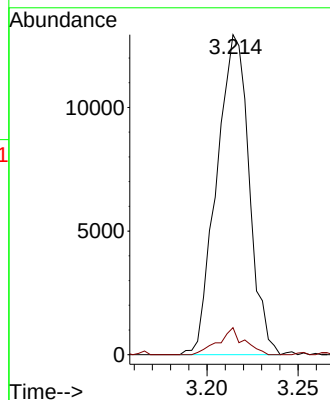
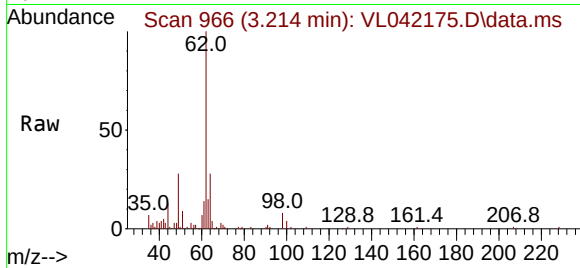




#37  
1,2-Dichloroethane  
Concen: 0.540 ppbv  
RT: 3.214 min Scan# 966  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

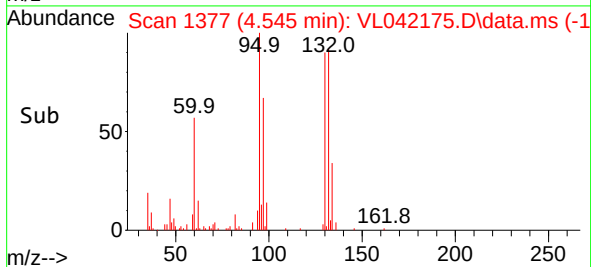
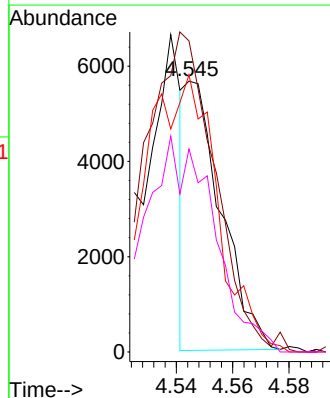
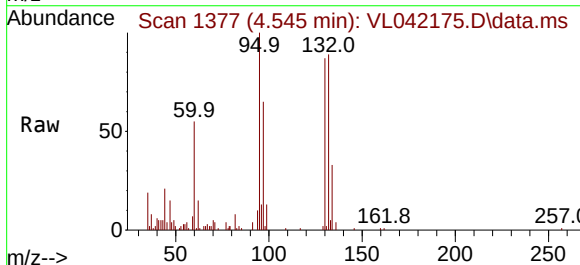
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

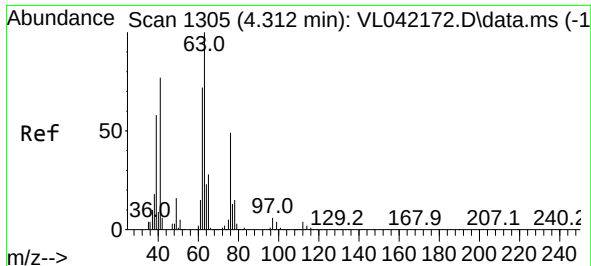
Tgt Ion: 62 Resp: 16062  
Ion Ratio Lower Upper  
62 100  
98 7.0 5.4 8.2



#38  
Trichloroethene  
Concen: 0.230 ppbv  
RT: 4.545 min Scan# 1377  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion:130 Resp: 4992  
Ion Ratio Lower Upper  
130 100  
95 108.5 89.8 134.8  
132 100.9 77.4 116.2  
97 75.6 55.1 82.7





#39

1,2-Dichloropropane

Concen: 0.535 ppbv

RT: 4.308 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

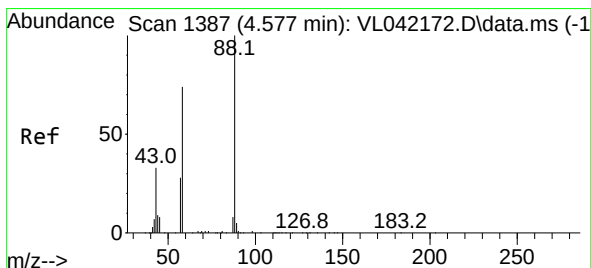
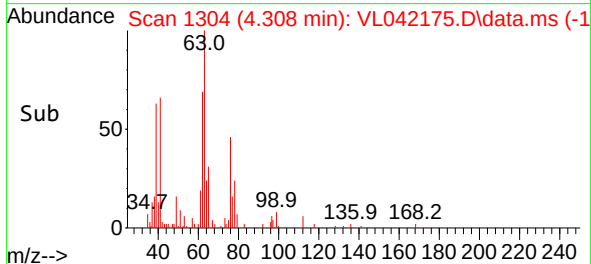
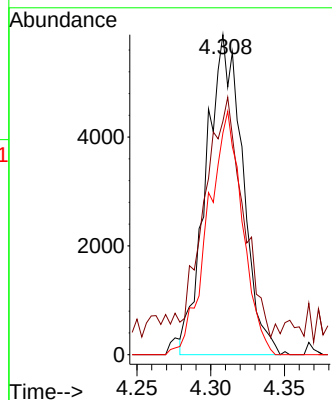
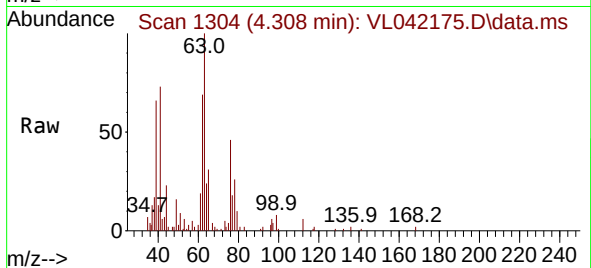
Tgt Ion: 63 Resp: 10123

Ion Ratio Lower Upper

63 100

41 66.4 61.7 92.5

62 69.3 57.6 86.4



#40

1,4-Dioxane

Concen: 0.457 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.016 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion: 88 Resp: 4487

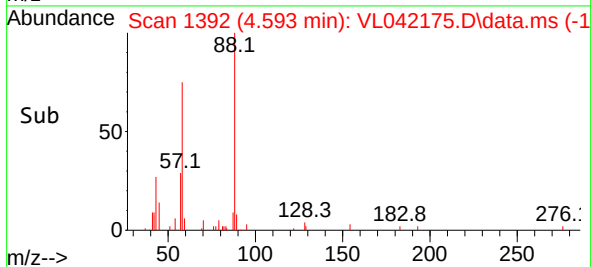
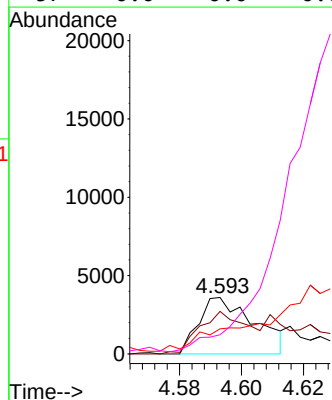
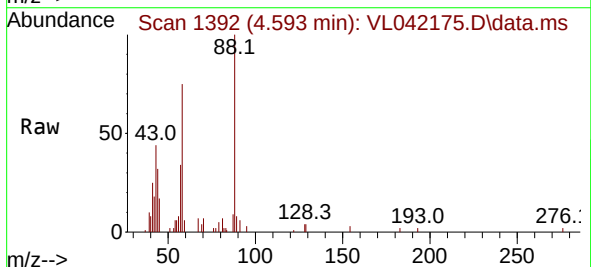
Ion Ratio Lower Upper

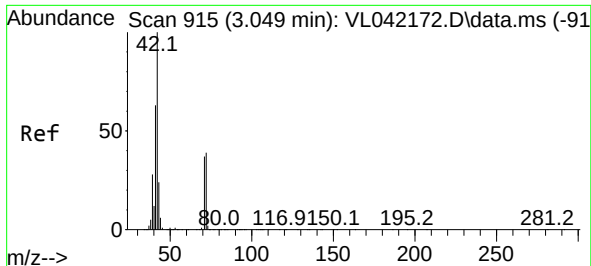
88 100

58 151.6 62.7 94.1#

43 0.0 23.0 34.4#

57 0.0 0.0 0.0

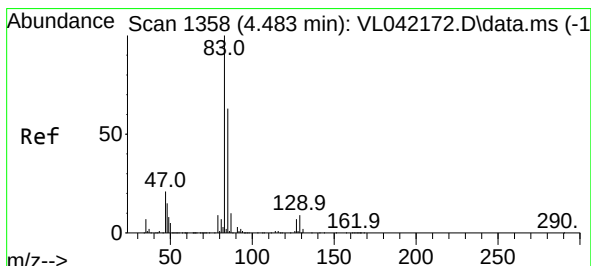
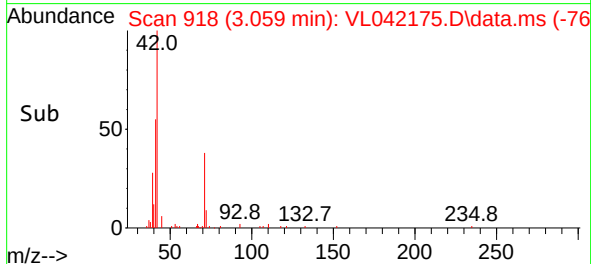
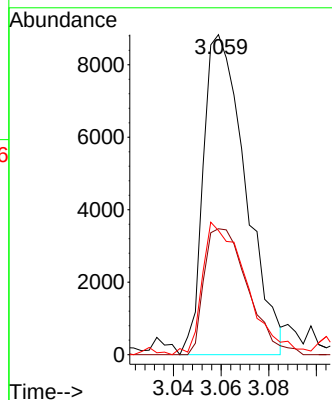
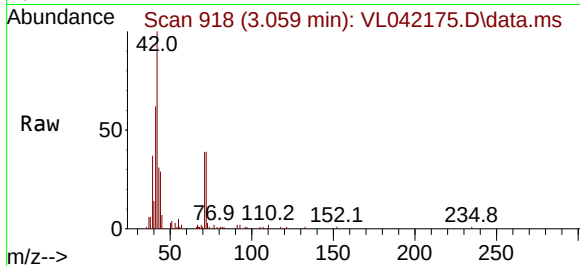




#41  
Tetrahydrofuran  
Concen: 0.502 ppbv  
RT: 3.059 min Scan# 915  
Delta R.T. 0.010 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

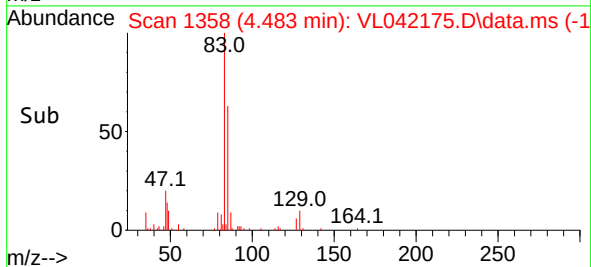
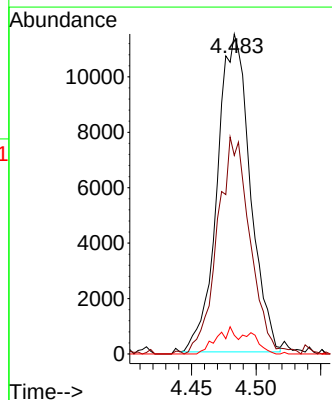
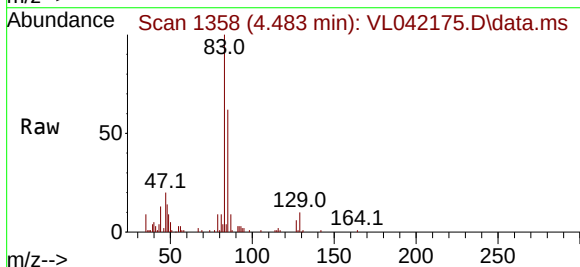
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

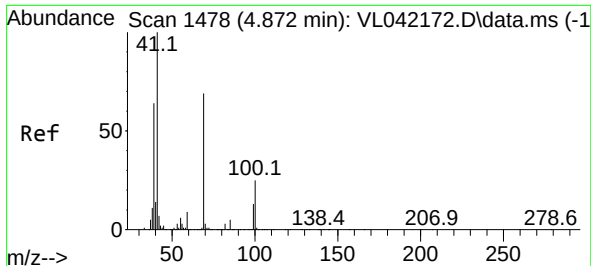
Tgt Ion: 42 Resp: 10856  
Ion Ratio Lower Upper  
42 100  
72 40.7 31.4 47.0  
71 43.1 30.2 45.4



#42  
Bromodichloromethane  
Concen: 0.497 ppbv  
RT: 4.483 min Scan# 1358  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 83 Resp: 20374  
Ion Ratio Lower Upper  
83 100  
85 61.6 50.5 75.7  
127 5.9 5.9 8.9#

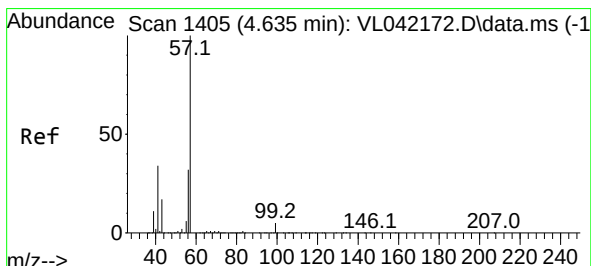
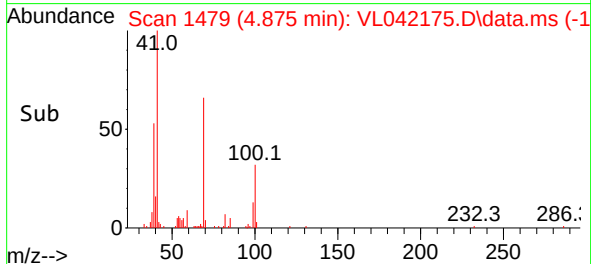
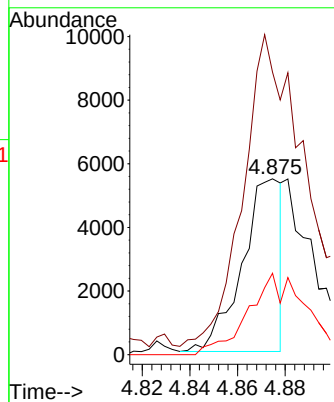
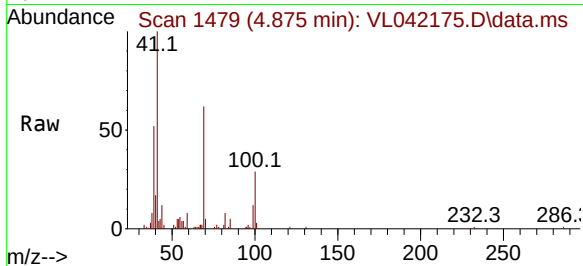




#43  
Methyl Methacrylate  
Concen: 0.284 ppbv  
RT: 4.875 min Scan# 1478  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

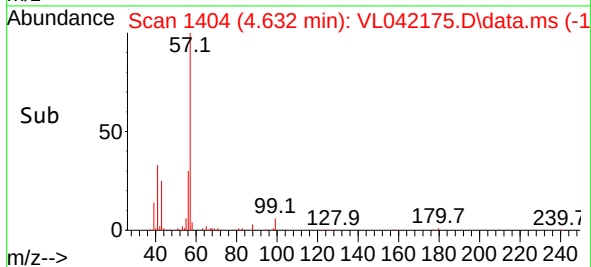
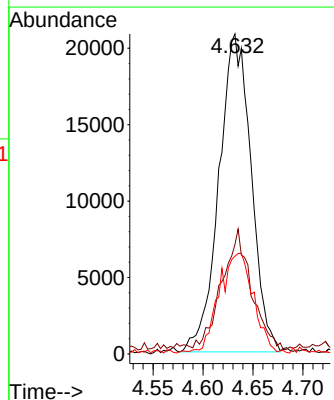
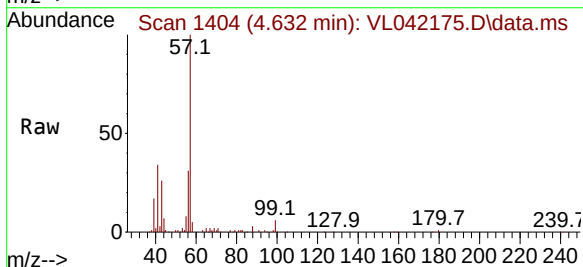
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

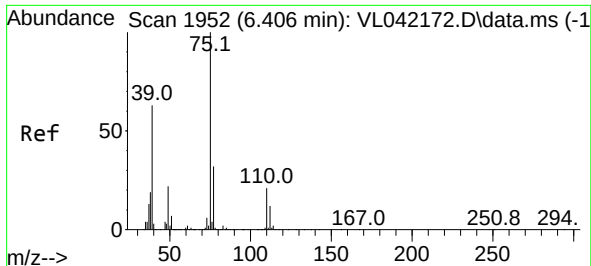
Tgt Ion: 69 Resp: 6229  
Ion Ratio Lower Upper  
69 100  
41 279.4 123.8 185.6#  
100 70.5 28.4 42.6#



#44  
2,2,4-Trimethylpentane  
Concen: 0.532 ppbv  
RT: 4.632 min Scan# 1404  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 57 Resp: 46646  
Ion Ratio Lower Upper  
57 100  
41 36.7 26.8 40.2  
56 34.3 25.6 38.4

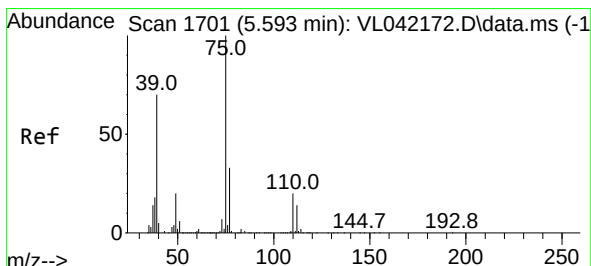
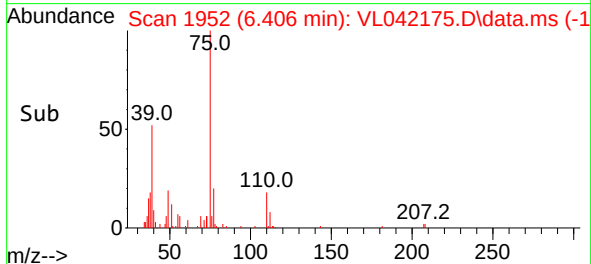
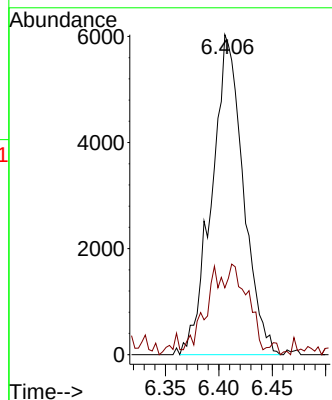
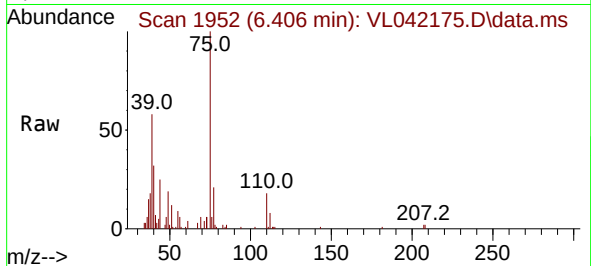




#45  
 t-1,3-Dichloropropene  
 Concen: 0.526 ppbv  
 RT: 6.406 min Scan# 1952  
 Delta R.T. -0.000 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

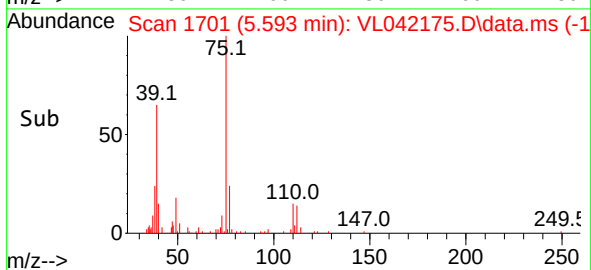
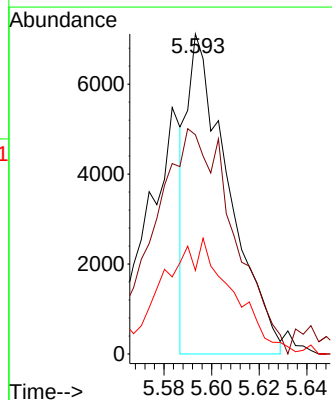
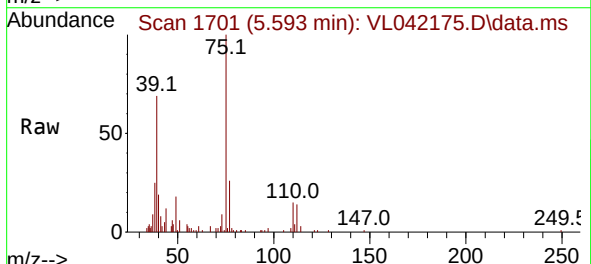
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

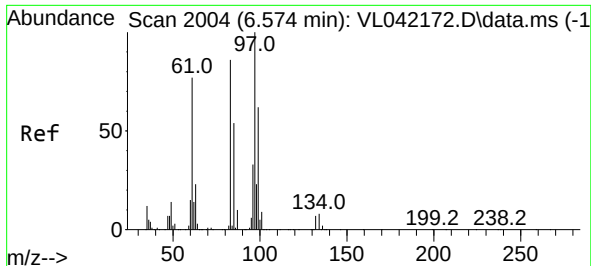
Tgt Ion: 75 Resp: 12404  
 Ion Ratio Lower Upper  
 75 100  
 77 20.9 26.0 39.0#



#46  
 cis-1,3-Dichloropropene  
 Concen: 0.297 ppbv  
 RT: 5.593 min Scan# 1701  
 Delta R.T. -0.000 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

Tgt Ion: 75 Resp: 8584  
 Ion Ratio Lower Upper  
 75 100  
 39 65.0 55.8 83.6  
 77 23.4 26.0 39.0#

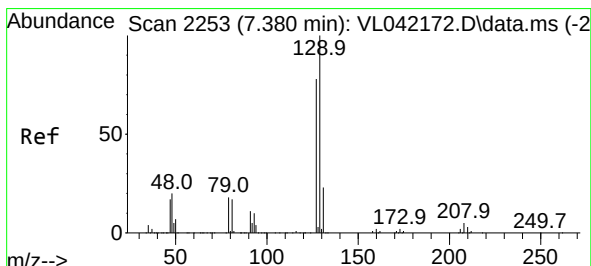
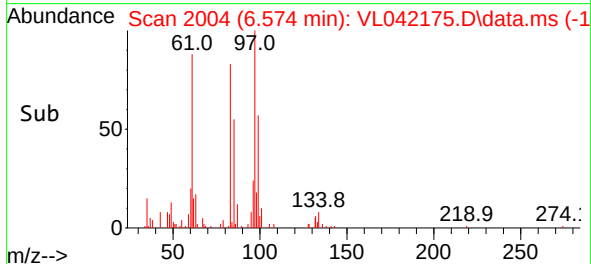
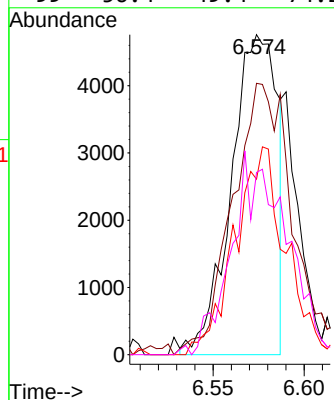
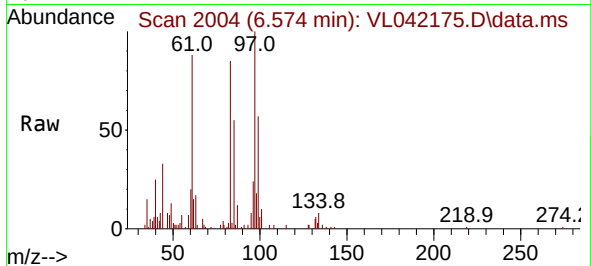




#47  
1,1,2-Trichloroethane  
Concen: 0.419 ppbv  
RT: 6.574 min Scan# 2004  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

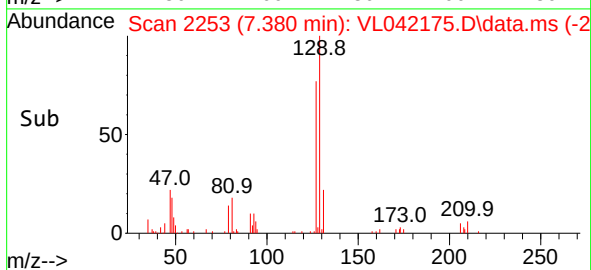
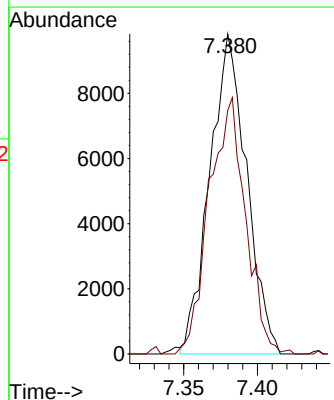
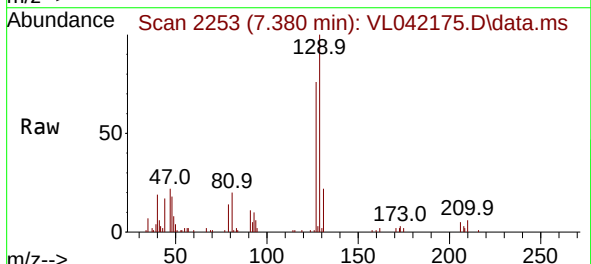
Instrument : MSVOA\_1  
ClientSampleId : VSTDIC0.5

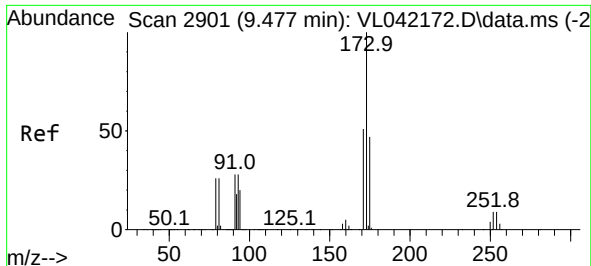
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 8374  |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 84.5     | 69.2 103.8  |
| 85 55.9     | 43.1 64.7   |
| 99 56.4     | 49.4 74.2   |



#48  
Dibromochloromethane  
Concen: 0.503 ppbv  
RT: 7.380 min Scan# 2253  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:129 | Resp: | 17042 |       |
| Ion         | Ratio | Lower | Upper |
| 129         | 100   |       |       |
| 127         | 79.4  | 39.1  | 117.2 |

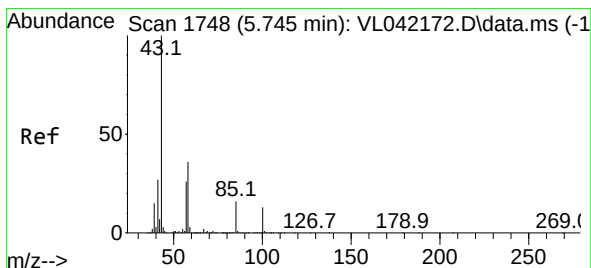
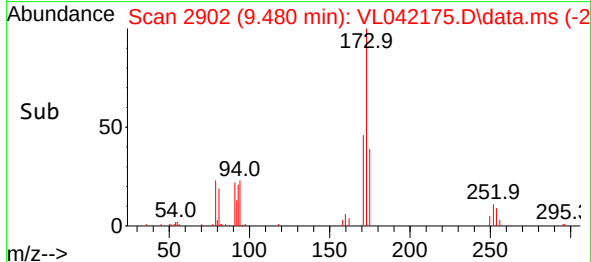
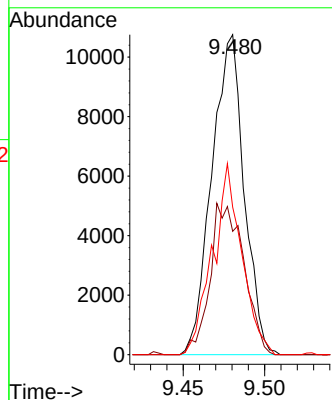
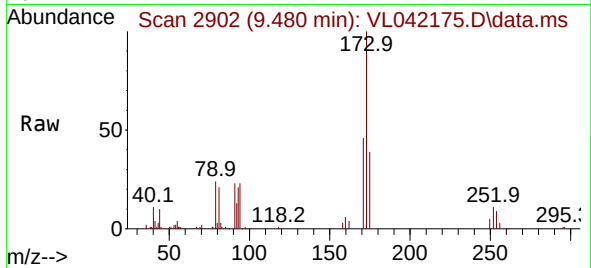




#49  
Bromoform  
Concen: 0.487 ppbv  
RT: 9.480 min Scan# 2901  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

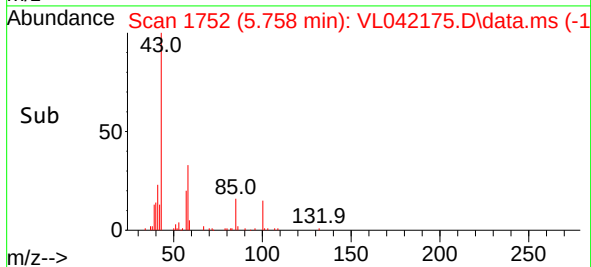
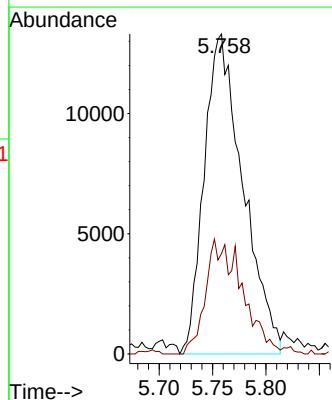
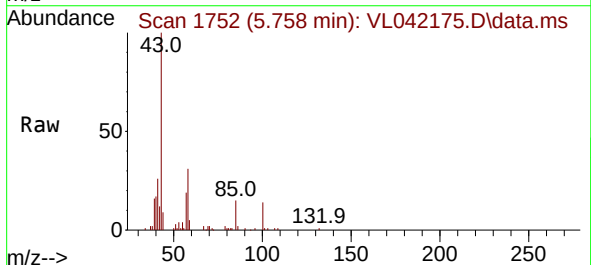
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:173 Resp: 14828  
Ion Ratio Lower Upper  
173 100  
175 49.7 38.6 57.8  
171 53.8 41.8 62.6

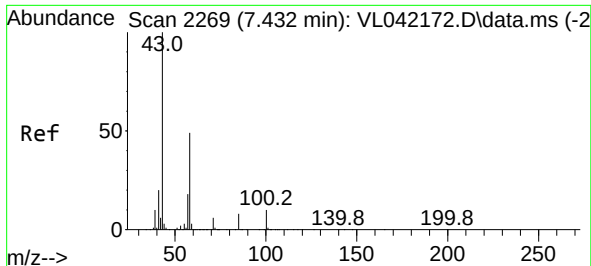


#50  
4-Methyl-2-Pentanone  
Concen: 0.559 ppbv  
RT: 5.758 min Scan# 1752  
Delta R.T. 0.013 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 33674  
Ion Ratio Lower Upper  
43 100  
58 34.4 29.0 43.6



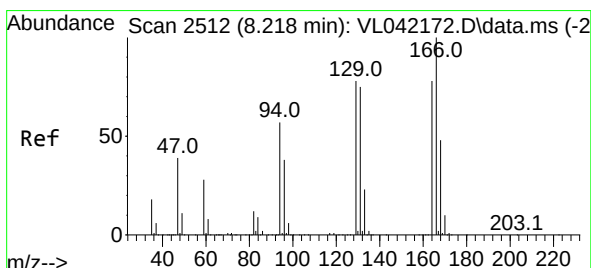
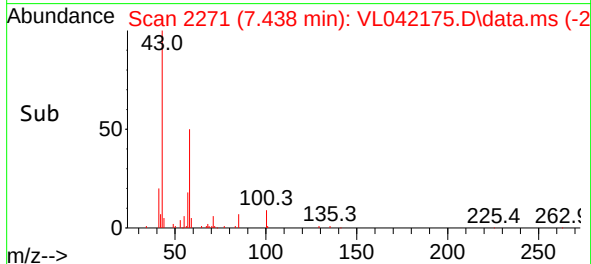
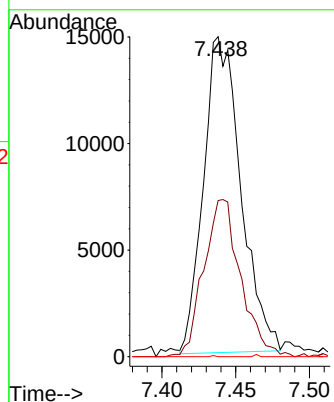
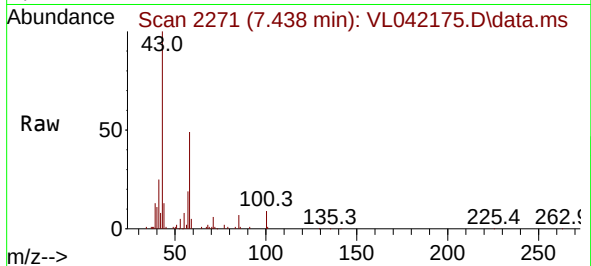




#51  
2-Hexanone  
Concen: 0.523 ppbv  
RT: 7.438 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

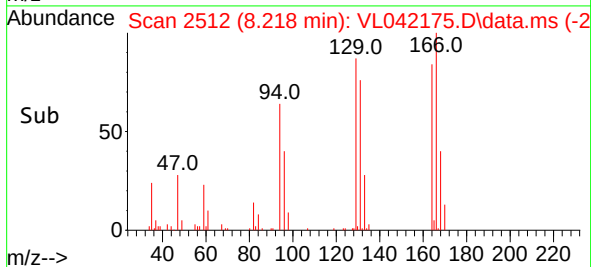
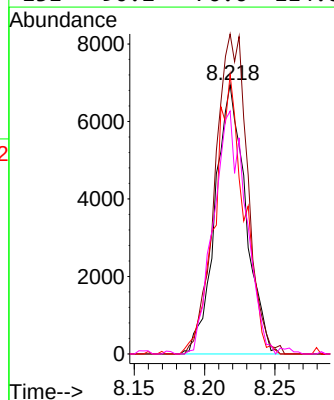
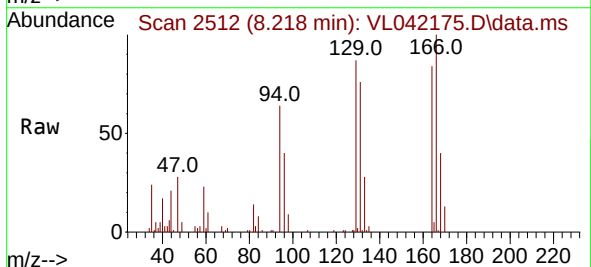
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

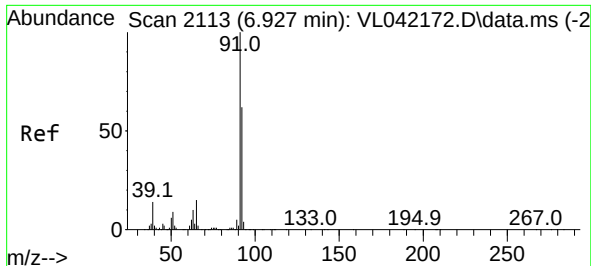
Tgt Ion: 43 Resp: 26154  
Ion Ratio Lower Upper  
43 100  
58 49.8 39.7 59.5  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 0.510 ppbv  
RT: 8.218 min Scan# 2512  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 164 Resp: 10502  
Ion Ratio Lower Upper  
164 100  
166 118.9 102.5 153.7  
129 103.8 79.8 119.8  
131 90.2 76.6 114.8

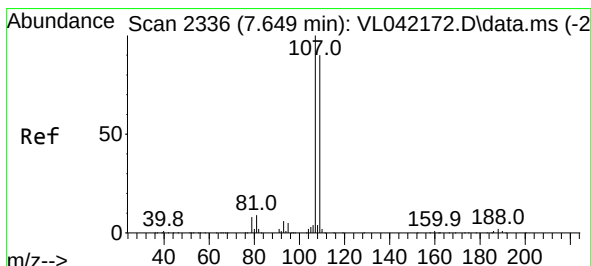
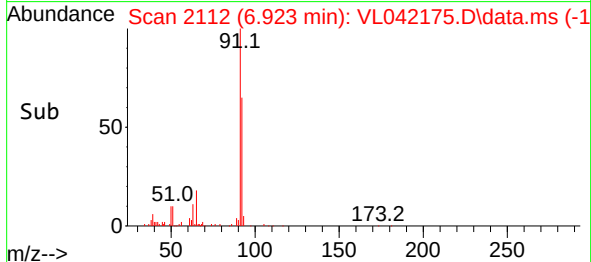
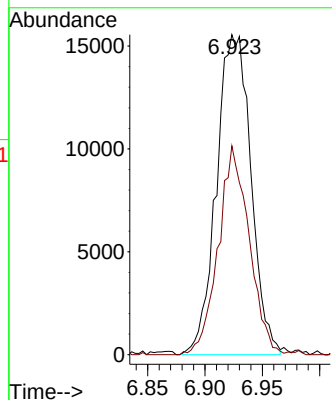
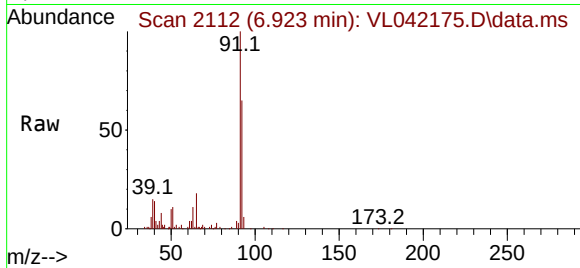




#53  
Toluene  
Concen: 0.527 ppbv  
RT: 6.923 min Scan# 2113  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

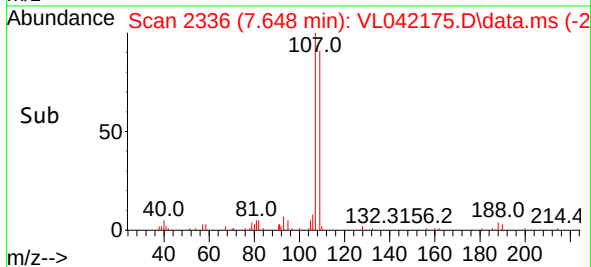
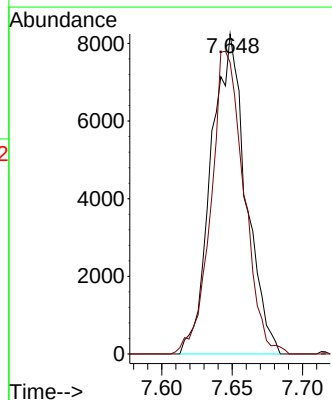
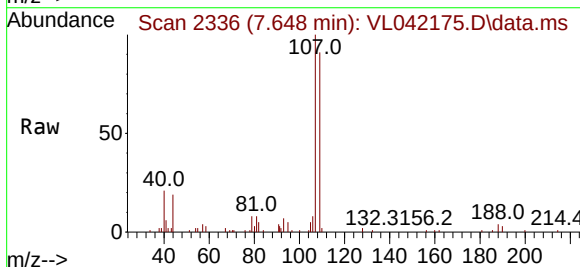
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

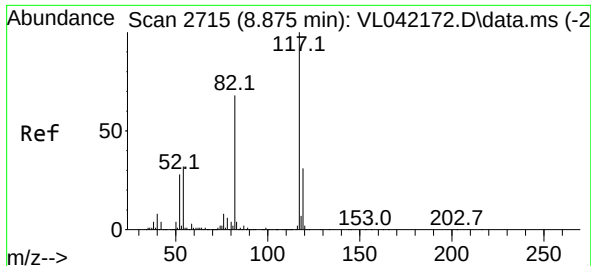
Tgt Ion: 91 Resp: 32444  
Ion Ratio Lower Upper  
91 100  
92 58.9 48.4 72.6



#54  
1,2-Dibromoethane  
Concen: 0.510 ppbv  
RT: 7.648 min Scan# 2336  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 107 Resp: 14220  
Ion Ratio Lower Upper  
107 100  
109 89.1 72.2 108.4

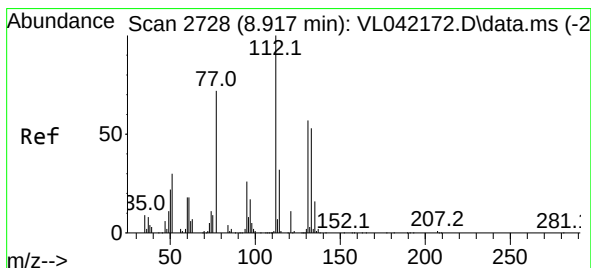
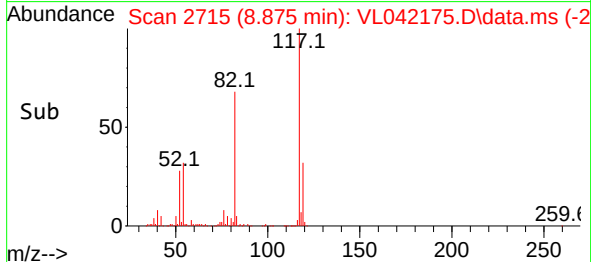
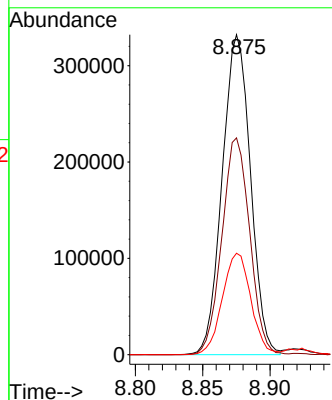
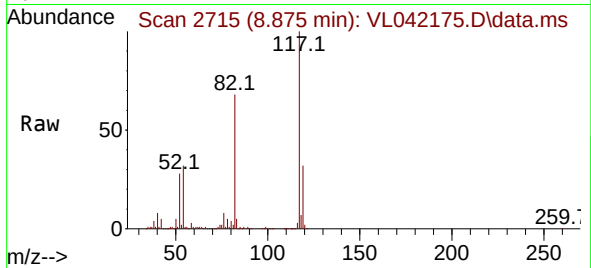




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.875 min Scan# 2715  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

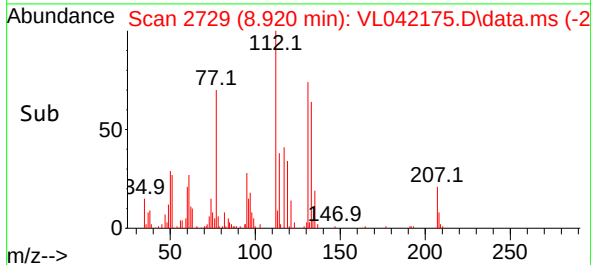
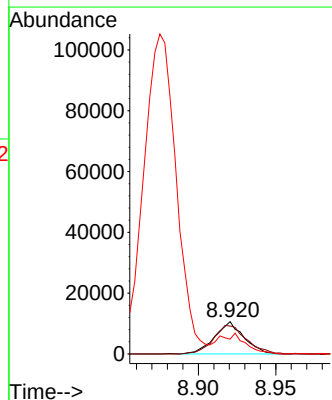
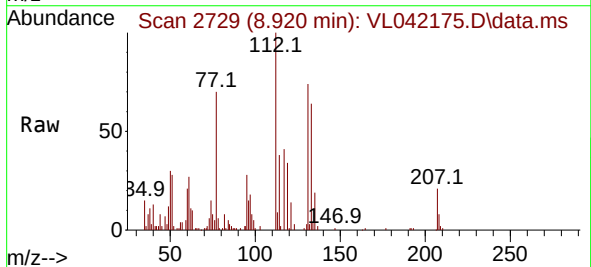
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

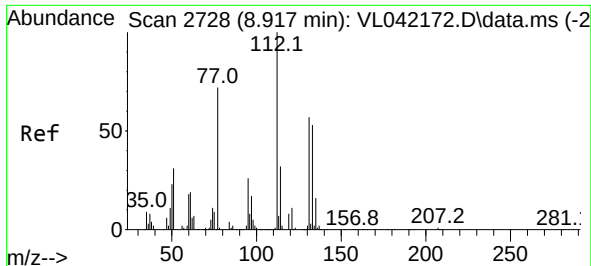
Tgt Ion:117 Resp: 485078  
Ion Ratio Lower Upper  
117 100  
82 67.0 55.8 83.6  
119 33.7 25.5 38.3



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.523 ppbv  
RT: 8.920 min Scan# 2729  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion:131 Resp: 13959  
Ion Ratio Lower Upper  
131 100  
133 99.6 76.6 114.8  
119 1170.3 49.8 74.6#

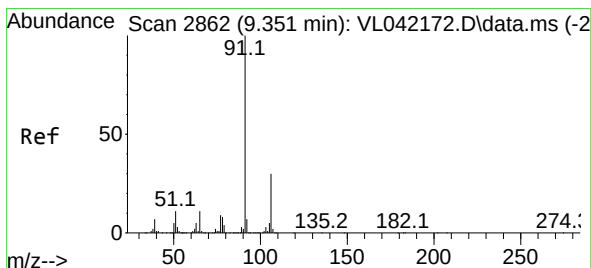
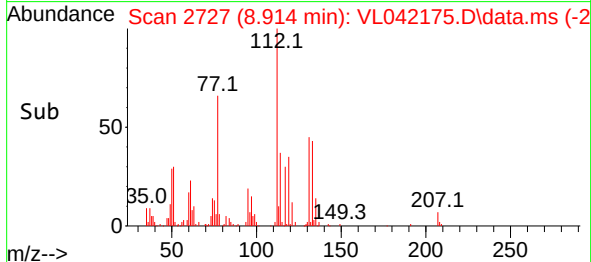
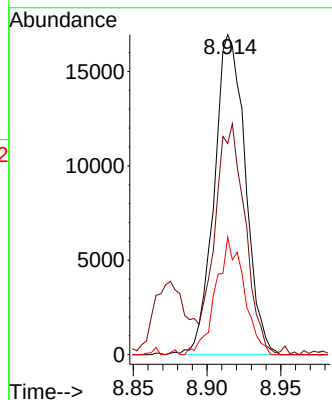
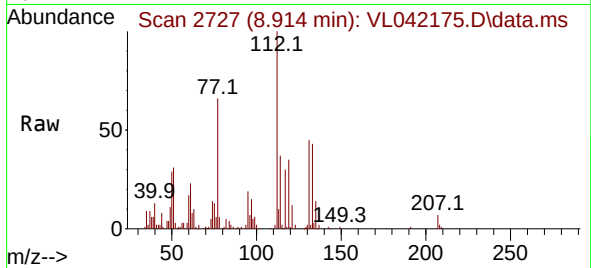




#57  
Chlorobenzene  
Concen: 0.540 ppbv  
RT: 8.914 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

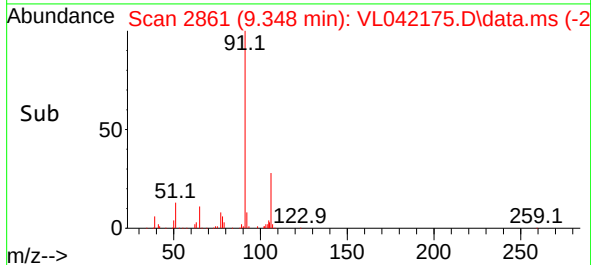
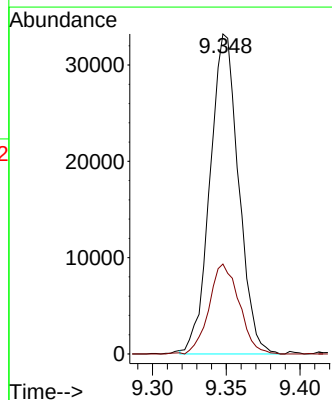
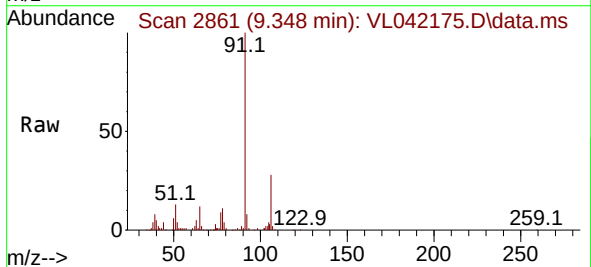
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

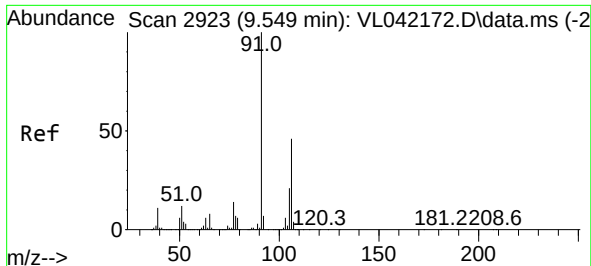
Tgt Ion:112 Resp: 24826  
Ion Ratio Lower Upper  
112 100  
77 65.1 58.2 87.2  
114 36.8 29.1 35.5#



#58  
Ethyl Benzene  
Concen: 0.521 ppbv  
RT: 9.348 min Scan# 2861  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 44862  
Ion Ratio Lower Upper  
91 100  
106 28.1 24.2 36.2





#59

m/p-Xylene

Concen: 0.272 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA\_1

ClientSampleId :

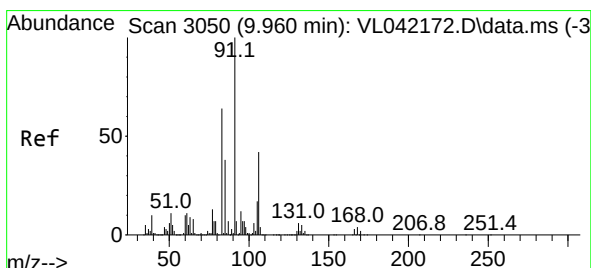
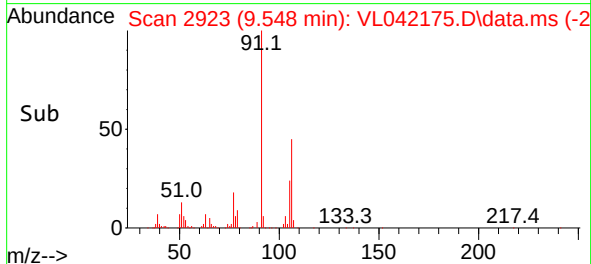
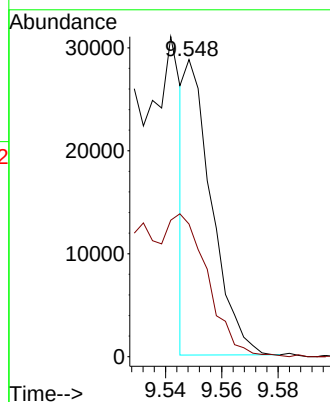
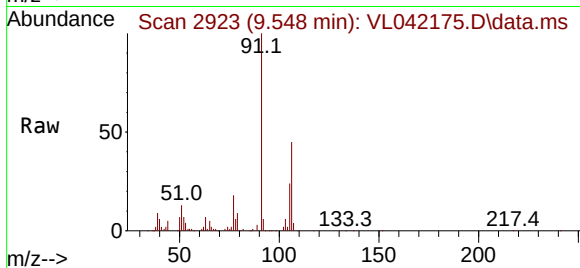
VSTDIC0.5

Tgt Ion: 91 Resp: 18711

Ion Ratio Lower Upper

91 100

106 176.2 36.4 54.6#



#60

o-Xylene

Concen: 0.535 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042175.D

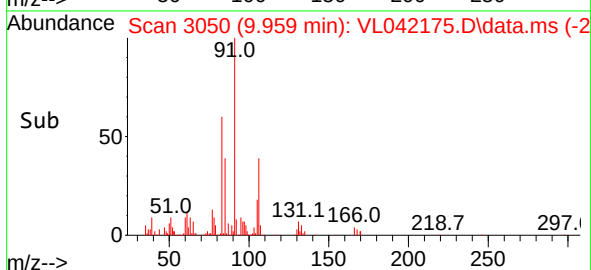
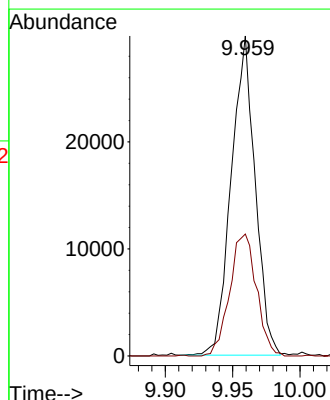
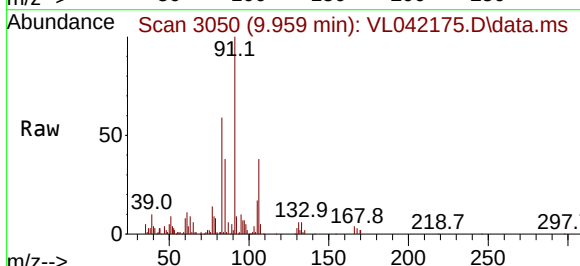
Acq: 27 Mar 2025 10:01

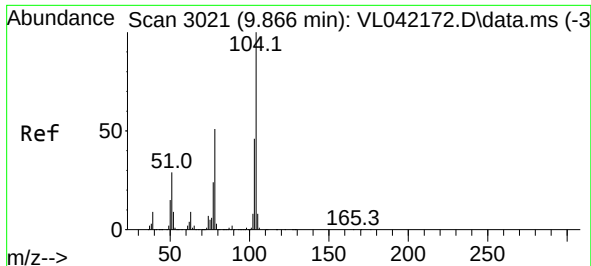
Tgt Ion: 91 Resp: 36879

Ion Ratio Lower Upper

91 100

106 42.7 20.8 62.5

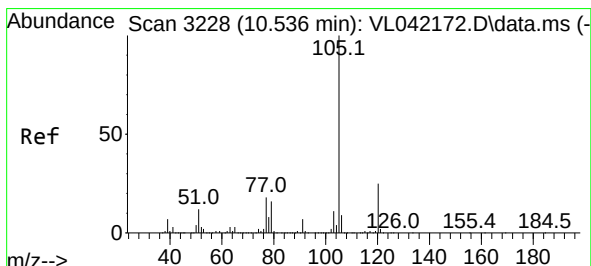
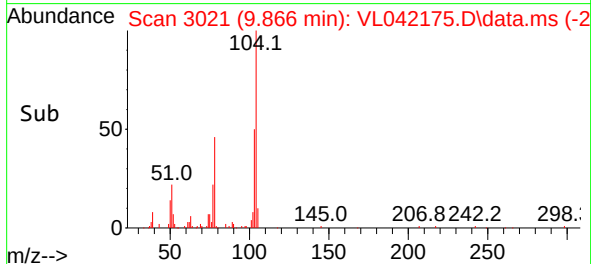
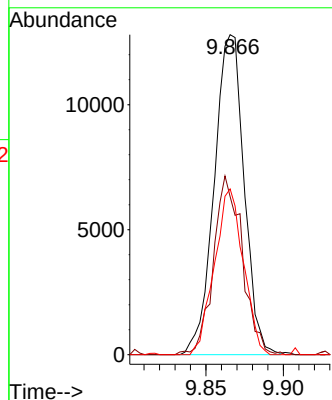
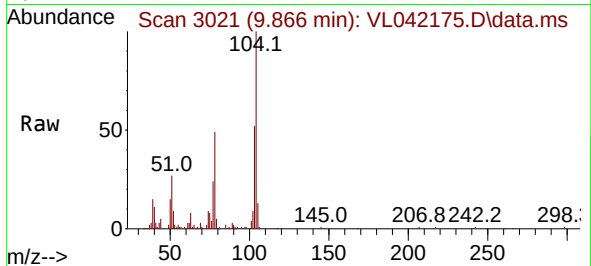




#61  
Styrene  
Concen: 0.504 ppbv  
RT: 9.866 min Scan# 3021  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

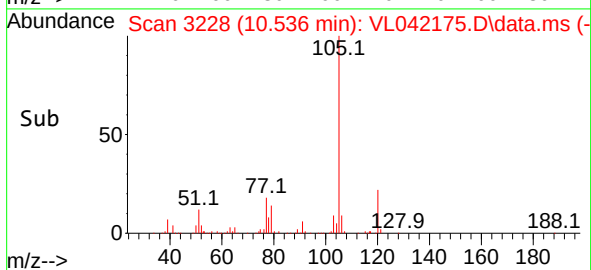
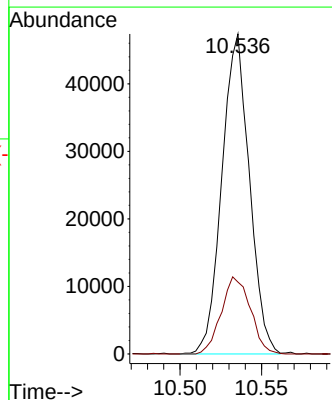
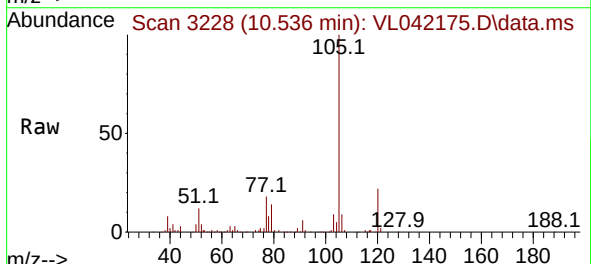
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

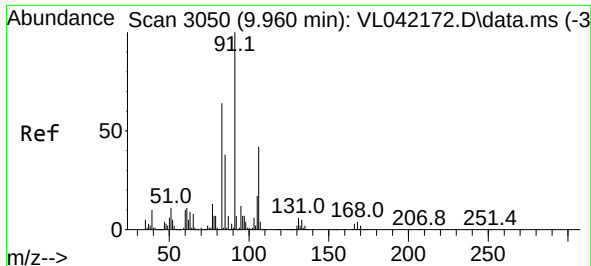
Tgt Ion:104 Resp: 17198  
Ion Ratio Lower Upper  
104 100  
78 53.7 41.8 62.6  
103 50.2 37.0 55.4



#62  
Isopropylbenzene  
Concen: 0.538 ppbv  
RT: 10.536 min Scan# 3228  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 55531  
Ion Ratio Lower Upper  
105 100  
120 25.5 19.9 29.9

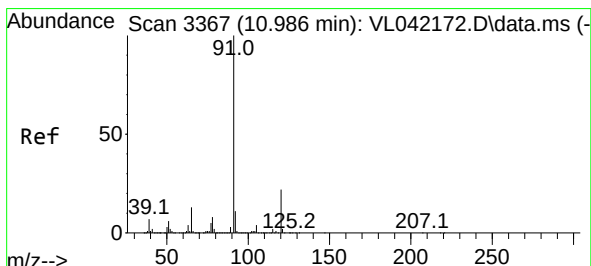
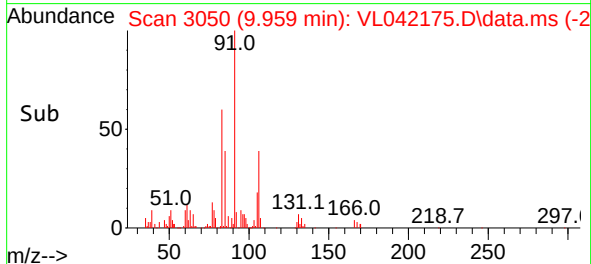
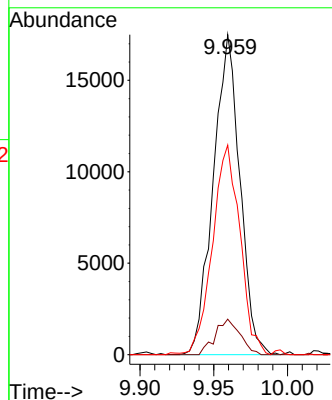
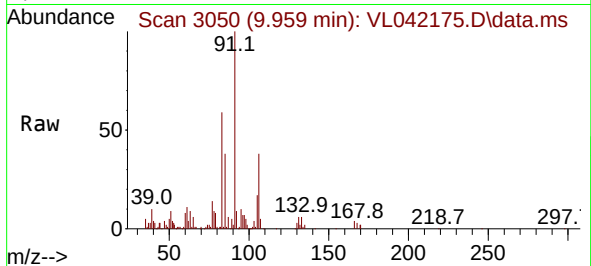




#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.525 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

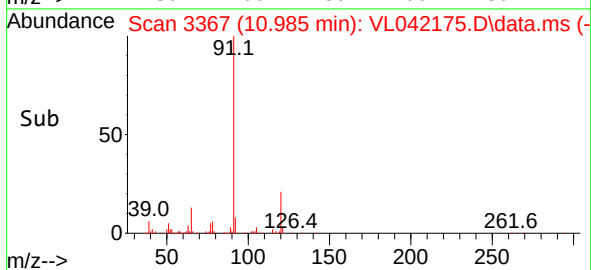
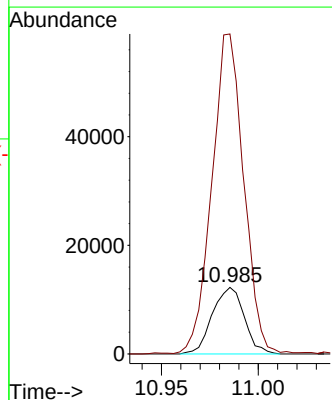
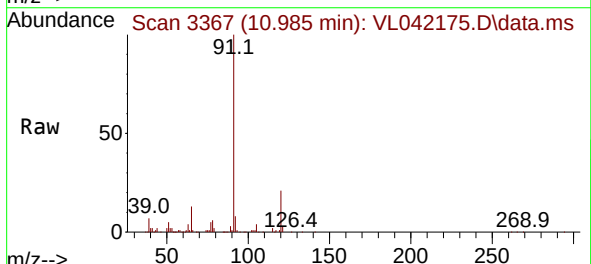
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

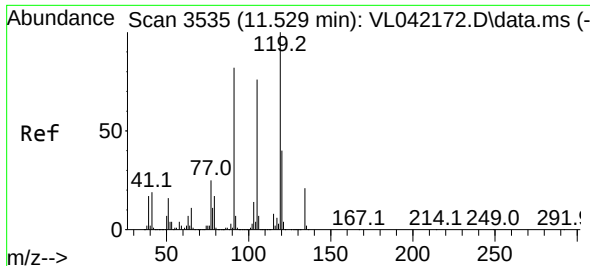
Tgt Ion: 83 Resp: 21989  
Ion Ratio Lower Upper  
83 100  
131 10.4 4.8 14.4  
85 68.1 32.5 97.5



#64  
n-propylbenzene  
Concen: 0.528 ppbv  
RT: 10.985 min Scan# 3367  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 120 Resp: 14030  
Ion Ratio Lower Upper  
120 100  
91 483.1 376.9 565.3

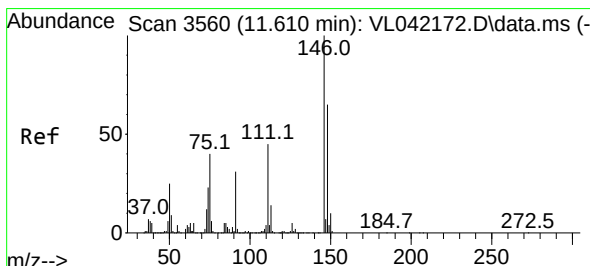
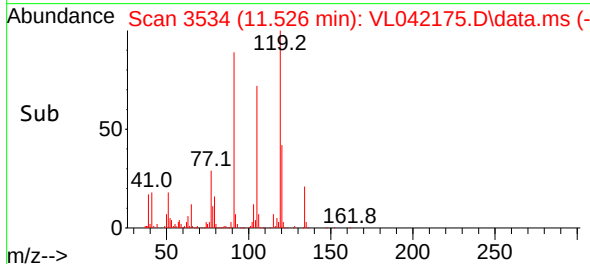
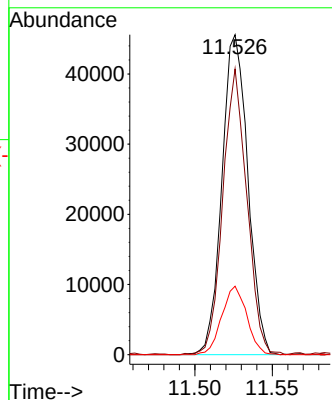
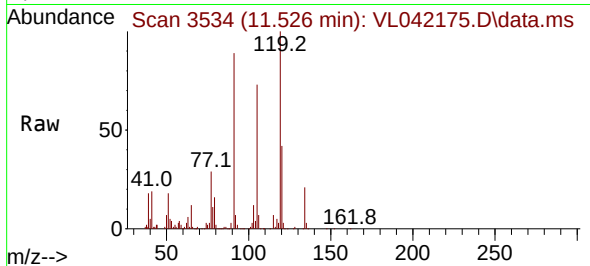




#65  
tert-Butylbenzene  
Concen: 0.557 ppbv  
RT: 11.526 min Scan# 3535  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

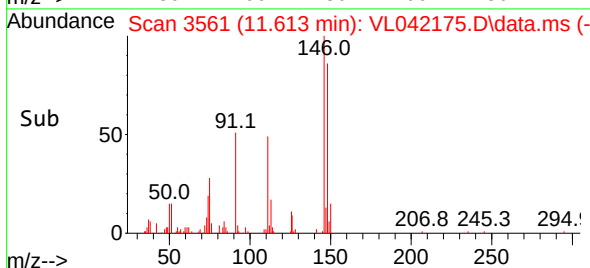
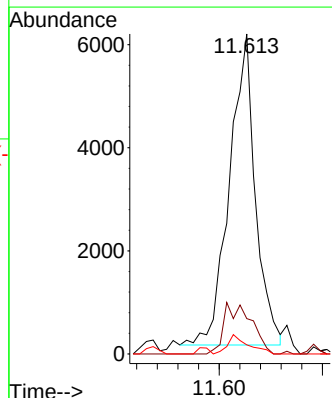
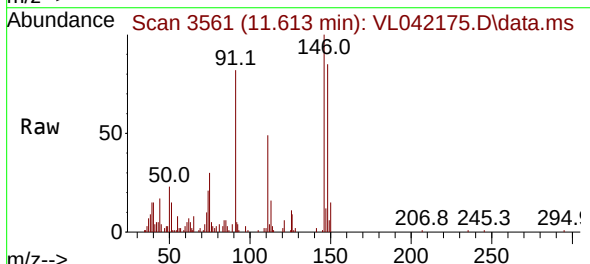
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 119   | Resp: | 53115 |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 91        | 82.9  | 66.0  | 99.0  |
| 134       | 20.6  | 16.7  | 25.1  |

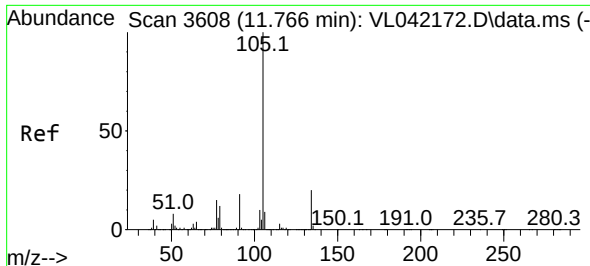


#66  
Benzyl Chloride  
Concen: 0.520 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 91    | Resp: | 5263 |
| Ion Ratio | Lower | Upper |      |
| 91        | 100   |       |      |
| 126       | 18.7  | 13.8  | 20.6 |
| 128       | 5.8   | 4.5   | 6.7  |



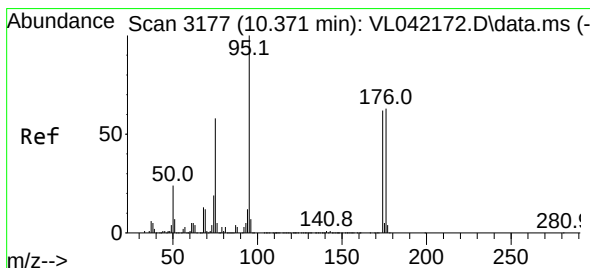
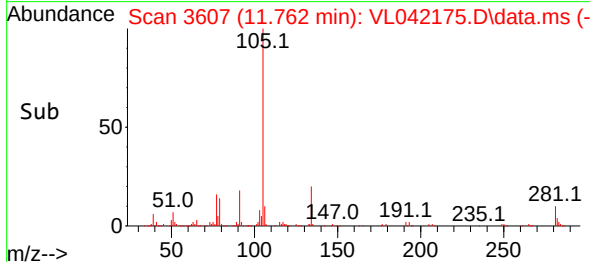
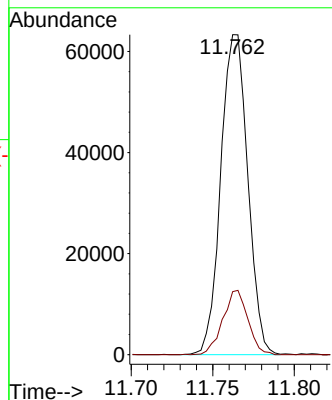
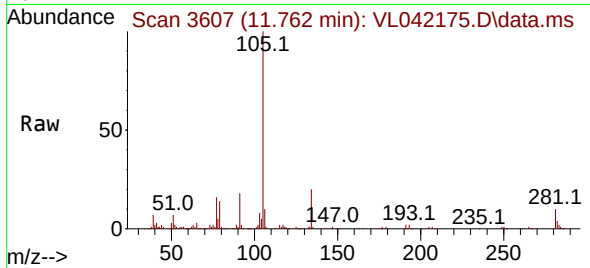




#67  
sec-Butylbenzene  
Concen: 0.550 ppbv  
RT: 11.762 min Scan# 3608  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

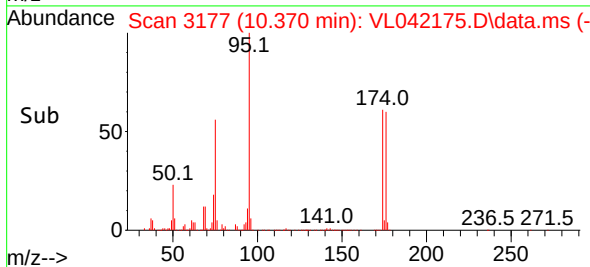
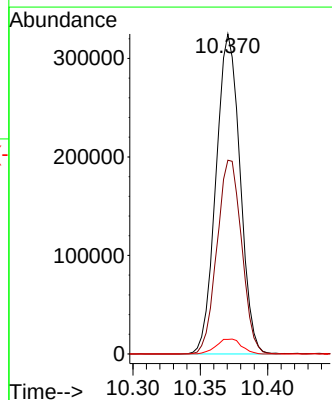
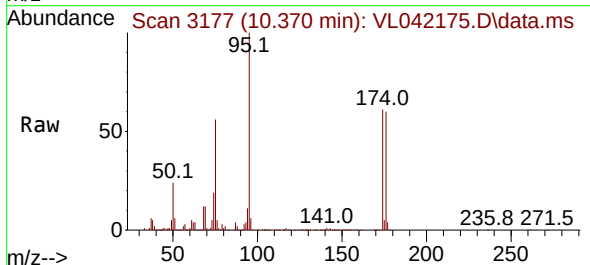
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.5

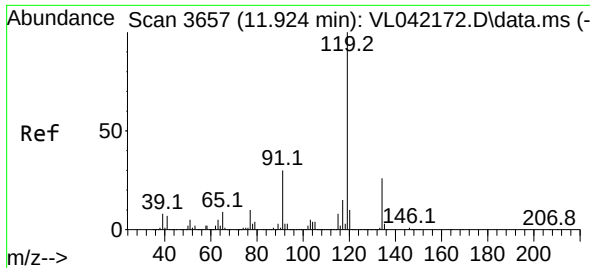
Tgt Ion:105 Resp: 72879  
Ion Ratio Lower Upper  
105 100  
134 18.6 15.5 23.3



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.130 ppbv  
RT: 10.370 min Scan# 3177  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 95 Resp: 403513  
Ion Ratio Lower Upper  
95 100  
174 62.3 50.6 76.0  
175 4.9 3.8 5.6

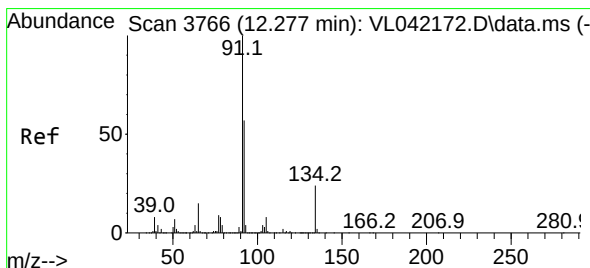
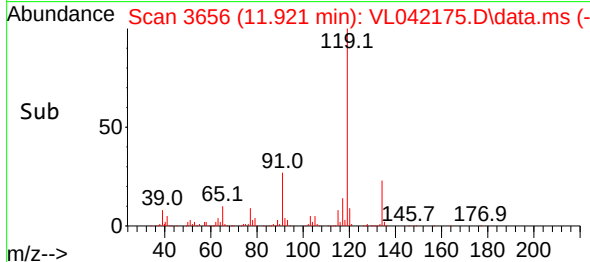
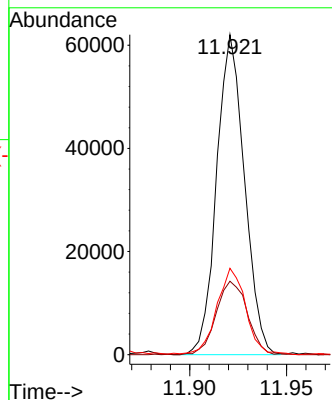
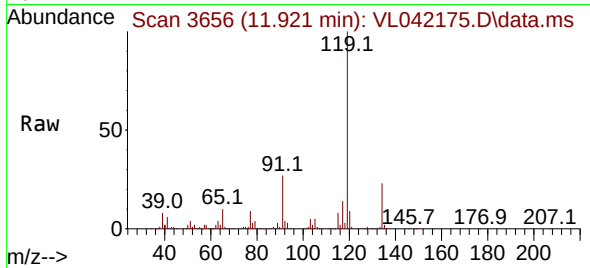




#69  
p-Isopropyltoluene  
Concen: 0.542 ppbv  
RT: 11.921 min Scan# 30  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

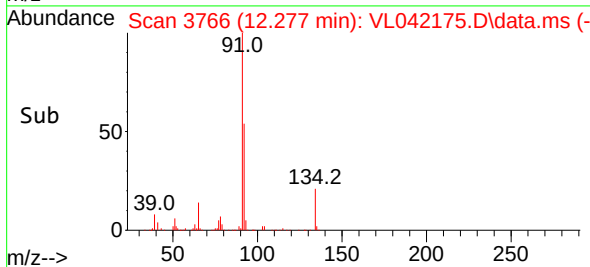
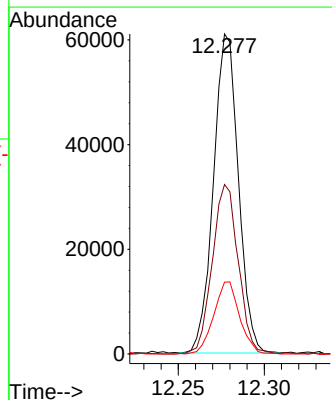
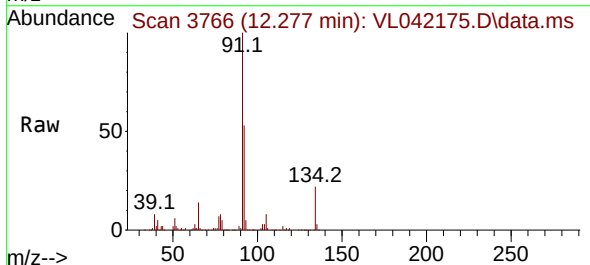
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

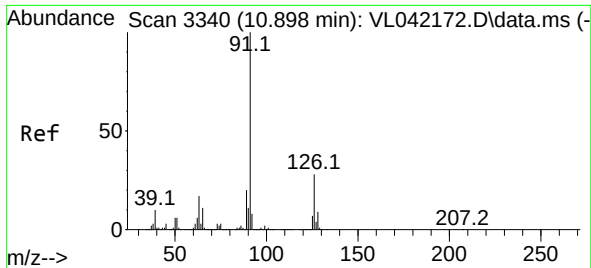
Tgt Ion:119 Resp: 61933  
Ion Ratio Lower Upper  
119 100  
134 25.8 20.4 30.6  
91 29.4 23.7 35.5



#70  
n-Butylbenzene  
Concen: 0.527 ppbv  
RT: 12.277 min Scan# 3766  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 61507  
Ion Ratio Lower Upper  
91 100  
92 55.3 44.9 67.3  
134 23.4 19.2 28.8

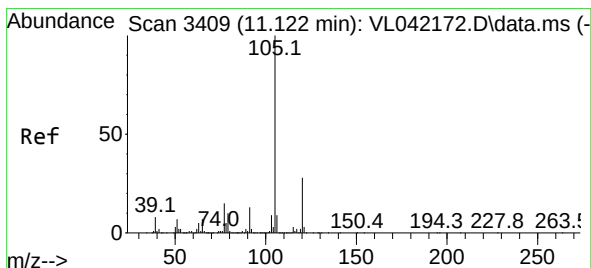
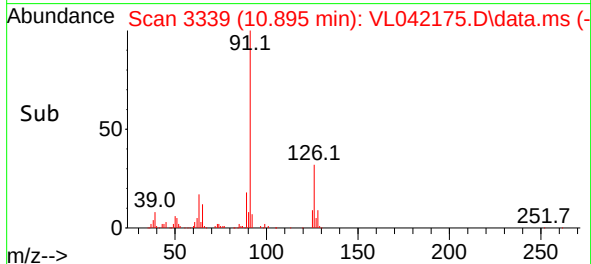
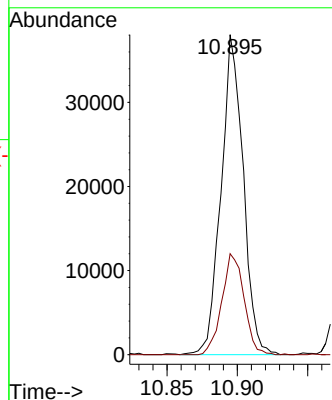
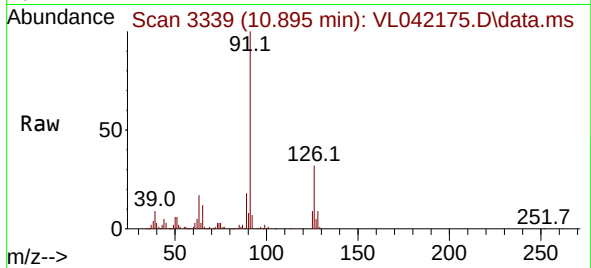




#71  
2-Chlorotoluene  
Concen: 0.520 ppbv  
RT: 10.895 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

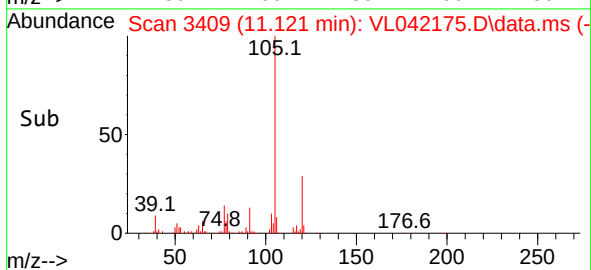
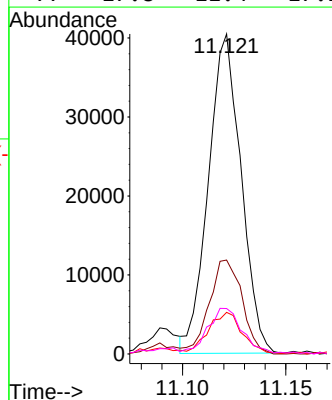
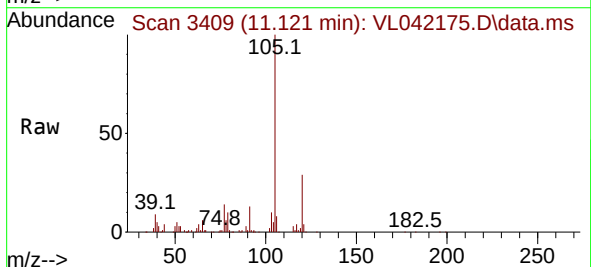
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

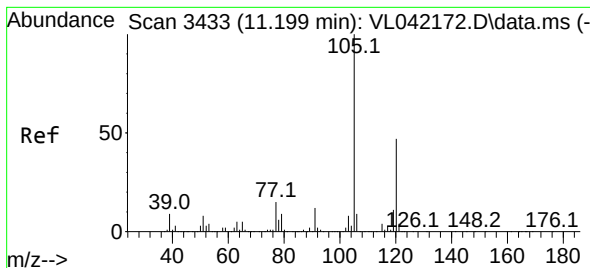
Tgt Ion: 91 Resp: 41637  
Ion Ratio Lower Upper  
91 100  
126 31.7 11.6 46.4



#72  
4-Ethyltoluene  
Concen: 0.518 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion: 105 Resp: 44473  
Ion Ratio Lower Upper  
105 100  
120 32.3 23.4 35.0  
91 14.9 10.3 15.5  
77 17.8 11.4 17.2#

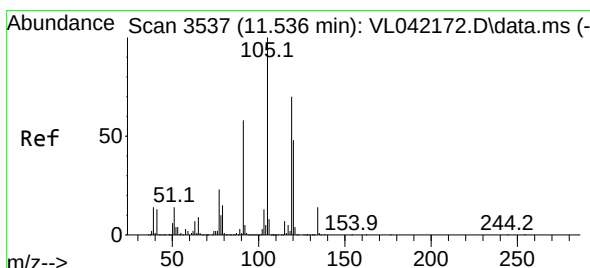
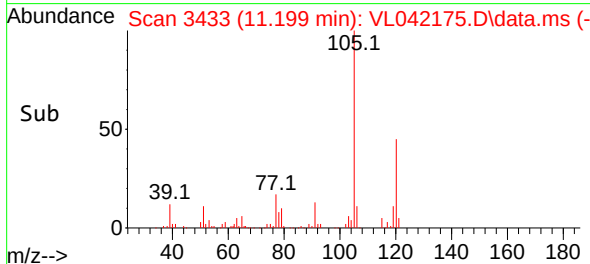
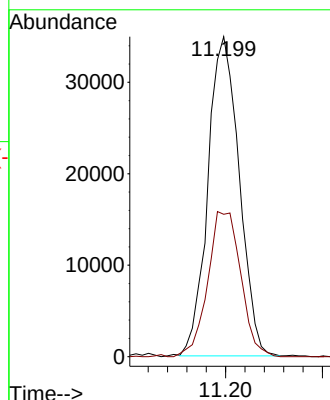
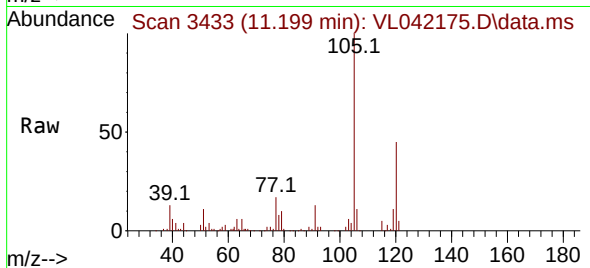




#73  
1,3,5-Trimethylbenzene  
Concen: 0.523 ppbv  
RT: 11.199 min Scan# 3433  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

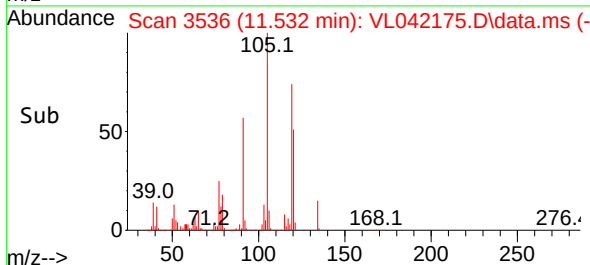
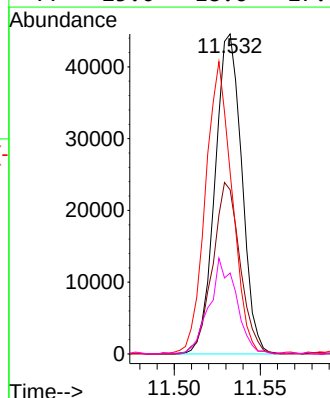
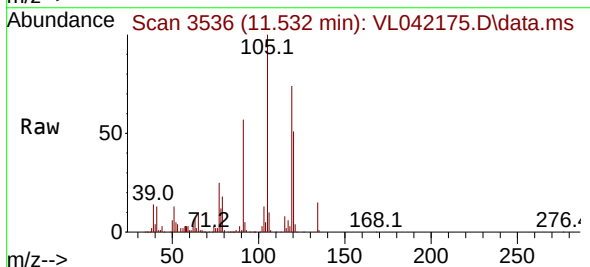
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

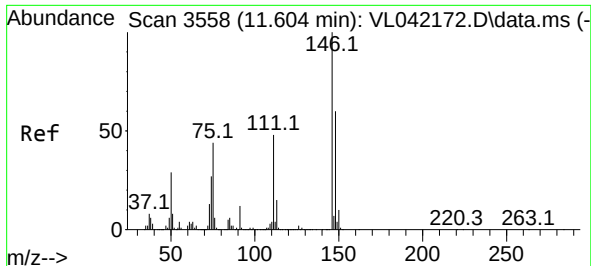
Tgt Ion:105 Resp: 39190  
Ion Ratio Lower Upper  
105 100  
120 44.6 37.4 56.0



#74  
1,2,4-Trimethylbenzene  
Concen: 0.560 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 48370  
Ion Ratio Lower Upper  
105 100  
120 51.3 38.6 58.0  
91 56.5 46.2 69.2  
77 25.0 18.6 27.8

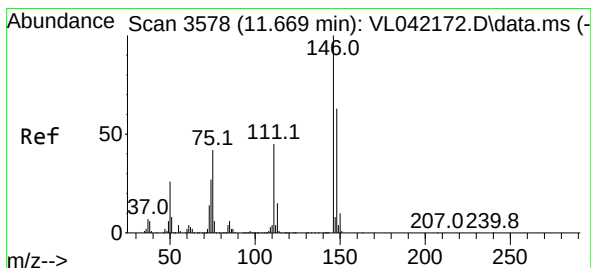
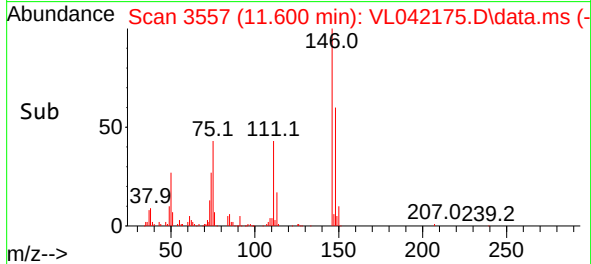
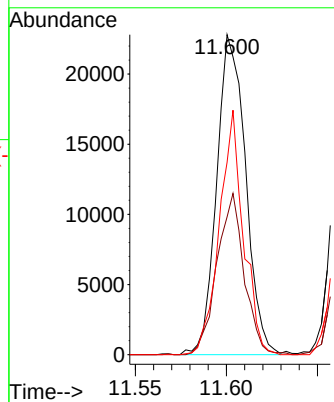
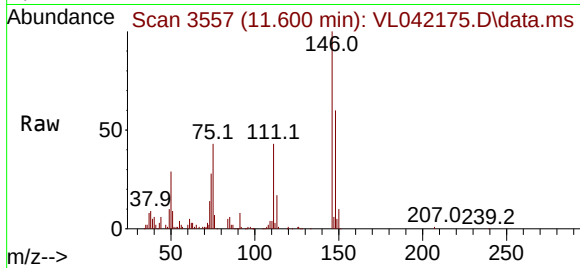




#75  
1,3-Dichlorobenzene  
Concen: 0.530 ppbv  
RT: 11.600 min Scan# 3557  
Delta R.T. -0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

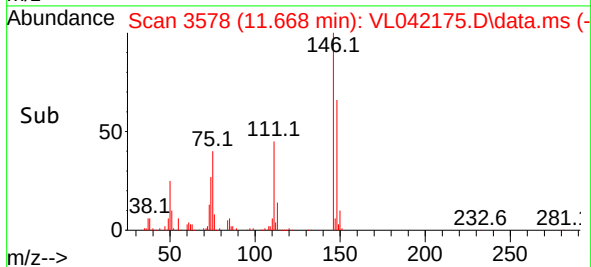
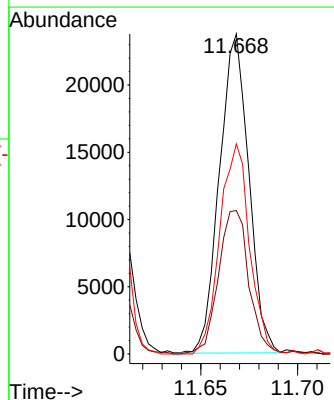
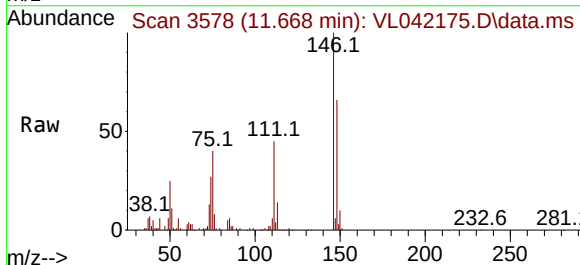
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

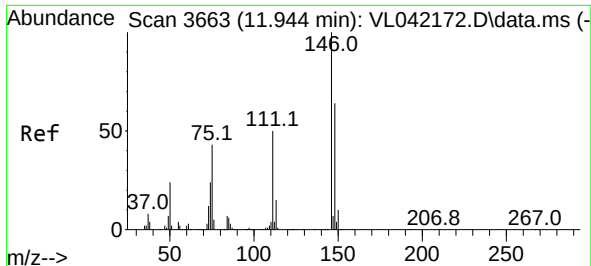
Tgt Ion:146 Resp: 25122  
Ion Ratio Lower Upper  
146 100  
111 47.5 23.8 71.2  
148 63.7 31.9 95.9



#76  
1,4-Dichlorobenzene  
Concen: 0.530 ppbv  
RT: 11.668 min Scan# 3578  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

Tgt Ion:146 Resp: 24991  
Ion Ratio Lower Upper  
146 100  
111 47.0 23.0 69.0  
148 67.5 31.9 95.7

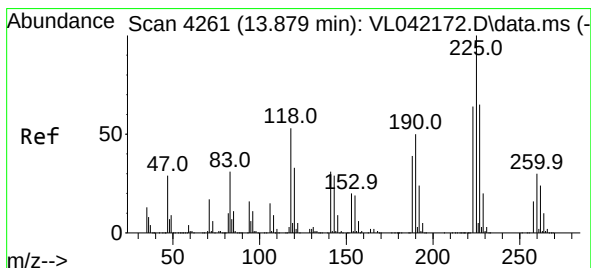
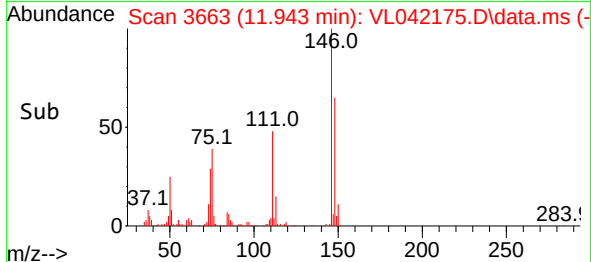
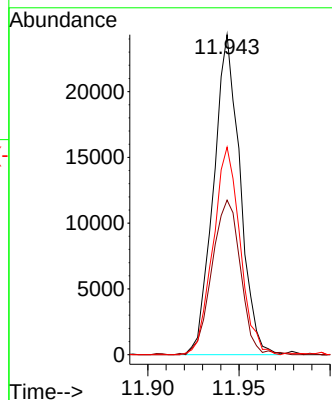
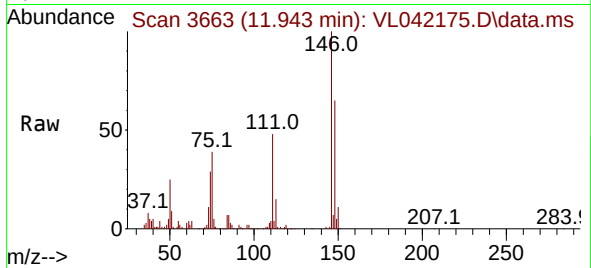




#77  
1,2-Dichlorobenzene  
Concen: 0.532 ppbv  
RT: 11.943 min Scan# 3663  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

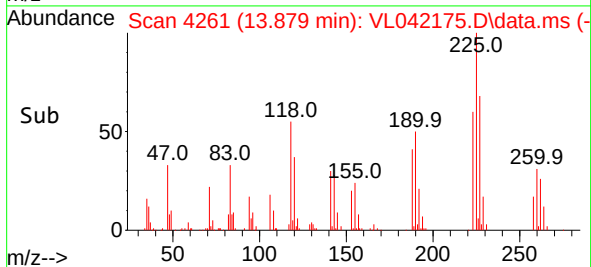
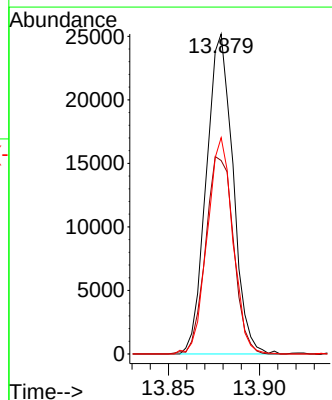
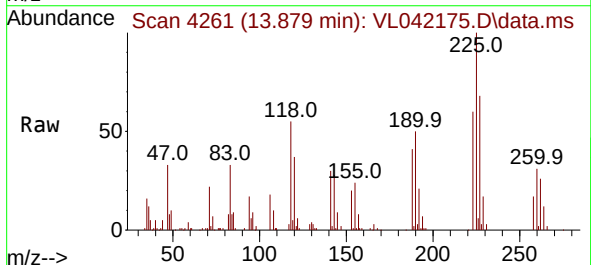
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

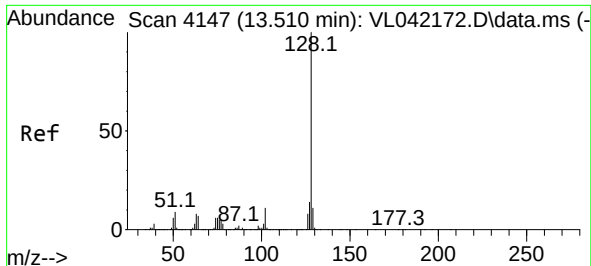
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 24548 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 52.2  | 24.8  | 74.3  |
| 148       | 66.6  | 31.6  | 94.8  |



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.546 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 25636 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 64.5  | 50.6  | 76.0  |
| 227       | 64.8  | 51.2  | 76.8  |

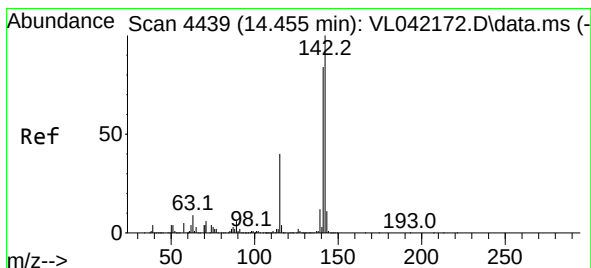
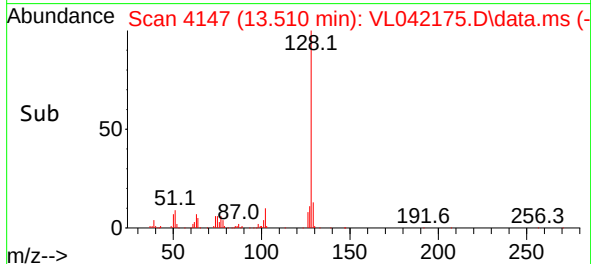
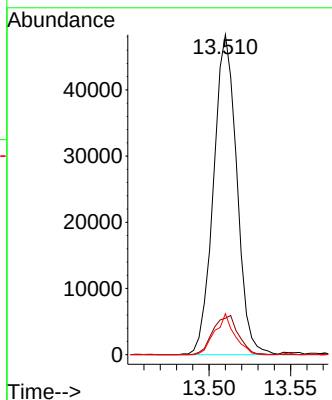
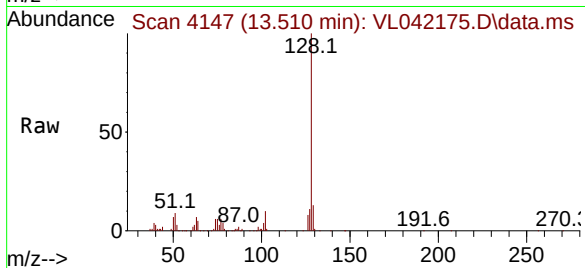




#79  
Naphthalene  
Concen: 0.508 ppbv  
RT: 13.510 min Scan# 4147  
Delta R.T. -0.000 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

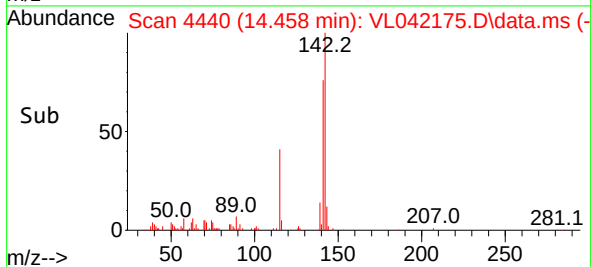
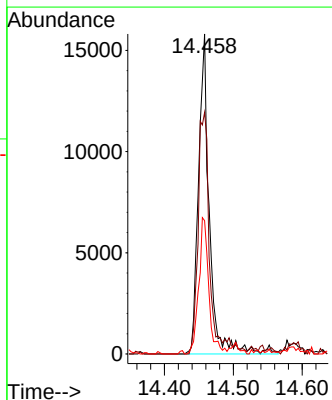
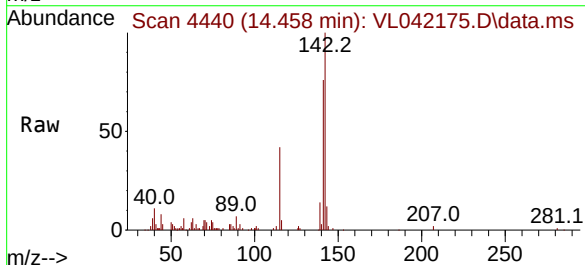
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

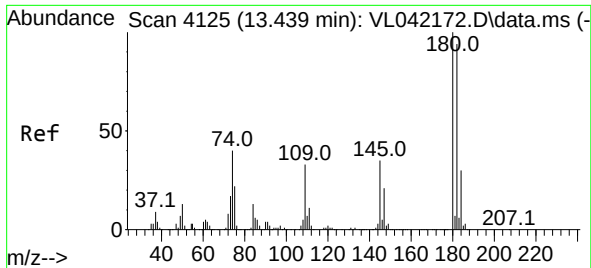
Tgt Ion:128 Resp: 47990  
Ion Ratio Lower Upper  
128 100  
127 11.4 10.8 16.2  
129 12.8 9.0 13.4



#80  
Naphthalene,2-methyl-  
Concen: 0.380 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. 0.003 min  
Lab File: VL042175.D  
Acq: 27 Mar 2025 10:01

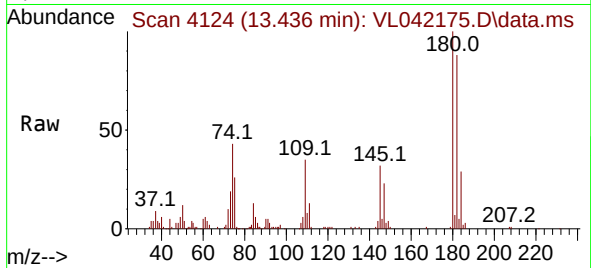
Tgt Ion:142 Resp: 17486  
Ion Ratio Lower Upper  
142 100  
141 83.3 66.3 99.5  
115 43.5 31.6 47.4



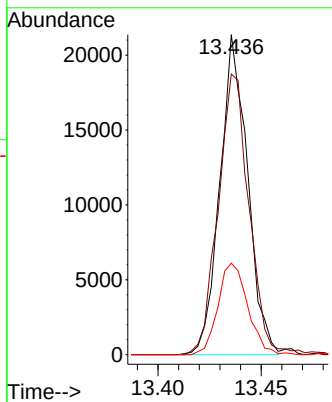
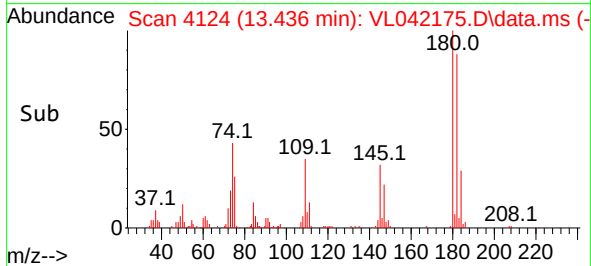


#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.457 ppbv  
 RT: 13.436 min Scan# 41  
 Delta R.T. -0.003 min  
 Lab File: VL042175.D  
 Acq: 27 Mar 2025 10:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5



Tgt Ion:180 Resp: 19924  
 Ion Ratio Lower Upper  
 180 100  
 182 97.9 75.1 112.7  
 184 31.1 24.4 36.6





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042176.D  
 Acq On : 27 Mar 2025 10:32  
 Operator : SY/MD  
 Sample : VSTDIC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.1

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 26 06:05:16 2022

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

|                               |       |     |        |       | Qvalue |     |
|-------------------------------|-------|-----|--------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.554 | 85  | 2353   | 0.088 | ppbv   | 100 |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 3006   | 0.110 | ppbv # | 40  |
| 4) Chloromethane              | 1.531 | 50  | 1330   | 0.122 | ppbv # | 53  |
| 5) Vinyl Chloride             | 1.580 | 62  | 1274   | 0.115 | ppbv # | 42  |
| 6) Bromomethane               | 1.667 | 94  | 537    | 0.109 | ppbv # | 73  |
| 7) Chloroethane               | 1.703 | 64  | 616    | 0.141 | ppbv # | 49  |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 2353   | 0.104 | ppbv   | 92  |
| 9) Propene                    | 1.486 | 41  | 1664   | 0.135 | ppbv # | 44  |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 2644   | 0.102 | ppbv   | 97  |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 2551   | 0.120 | ppbv # | 81  |
| 13) Ethanol                   | 1.716 | 45  | 721    | 0.750 | ppbv   | 60  |
| 14) Bromoethene               | 1.780 | 108 | 956    | 0.117 | ppbv # | 11  |
| 15) Acetone                   | 1.835 | 43  | 5179   | 0.205 | ppbv   | 92  |
| 16) 1,3-Butadiene             | 1.609 | 39  | 1912   | 0.168 | ppbv   | 94  |
| 17) tert-Butyl alcohol        | 2.046 | 59  | 3546   | 0.113 | ppbv # | 30  |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 1155   | 0.116 | ppbv # | 72  |
| 19) Isopropyl Alcohol         | 1.891 | 45  | 1838   | 0.129 | ppbv # | 49  |
| 20) Methylene Chloride        | 2.059 | 84  | 2388   | 0.254 | ppbv # | 88  |
| 21) Allyl Chloride            | 2.091 | 41  | 3040   | 0.171 | ppbv # | 77  |
| 22) trans-1,2-Dichloroethene  | 2.722 | 96  | 1512   | 0.130 | ppbv   | 99  |
| 23) Vinyl Acetate             | 2.457 | 43  | 1746   | 0.166 | ppbv # | 1   |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 2446   | 0.114 | ppbv # | 92  |
| 25) Ethyl Acetate             | 2.842 | 43  | 6359   | 0.097 | ppbv # | 80  |
| 26) Hexane                    | 2.823 | 57  | 3126   | 0.123 | ppbv # | 5   |
| 27) Carbon Disulfide          | 2.149 | 76  | 3075   | 0.113 | ppbv # | 1   |
| 28) Methyl tert-Butyl Ether   | 2.438 | 73  | 875    | 0.055 | ppbv # | 49  |
| 29) Chloroform                | 2.845 | 83  | 4120   | 0.111 | ppbv   | 92  |
| 30) Cyclohexane               | 3.855 | 84  | 1113   | 0.051 | ppbv # | 1   |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 2587   | 0.101 | ppbv   | 95  |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 2773   | 0.065 | ppbv # | 50  |
| 34) 2-Butanone                | 2.564 | 43  | 4331   | 0.113 | ppbv   | 91  |
| 35) Carbon Tetrachloride      | 3.768 | 117 | 3523   | 0.087 | ppbv # | 71  |
| 36) Benzene                   | 3.658 | 78  | 5031   | 0.096 | ppbv # | 82  |
| 37) 1,2-Dichloroethane        | 3.218 | 62  | 2942   | 0.098 | ppbv   | 97  |
| 39) 1,2-Dichloropropane       | 3.959 | 63  | 135792 | 7.123 | ppbv # | 22  |
| 40) 1,4-Dioxane               | 4.616 | 88  | 843    | 0.085 | ppbv # | 25  |
| 42) Bromodichloromethane      | 4.490 | 83  | 4103   | 0.099 | ppbv # | 94  |
| 43) Methyl Methacrylate       | 4.878 | 69  | 930    | 0.042 | ppbv # | 1   |
| 45) t-1,3-Dichloropropene     | 6.419 | 75  | 1449   | 0.061 | ppbv # | 64  |
| 48) Dibromochloromethane      | 7.383 | 129 | 2284   | 0.067 | ppbv   | 68  |
| 49) Bromoform                 | 9.480 | 173 | 2928   | 0.095 | ppbv   | 94  |
| 51) 2-Hexanone                | 7.448 | 43  | 4284   | 0.085 | ppbv # | 87  |
| 53) Toluene                   | 6.930 | 91  | 3144   | 0.051 | ppbv # | 25  |

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

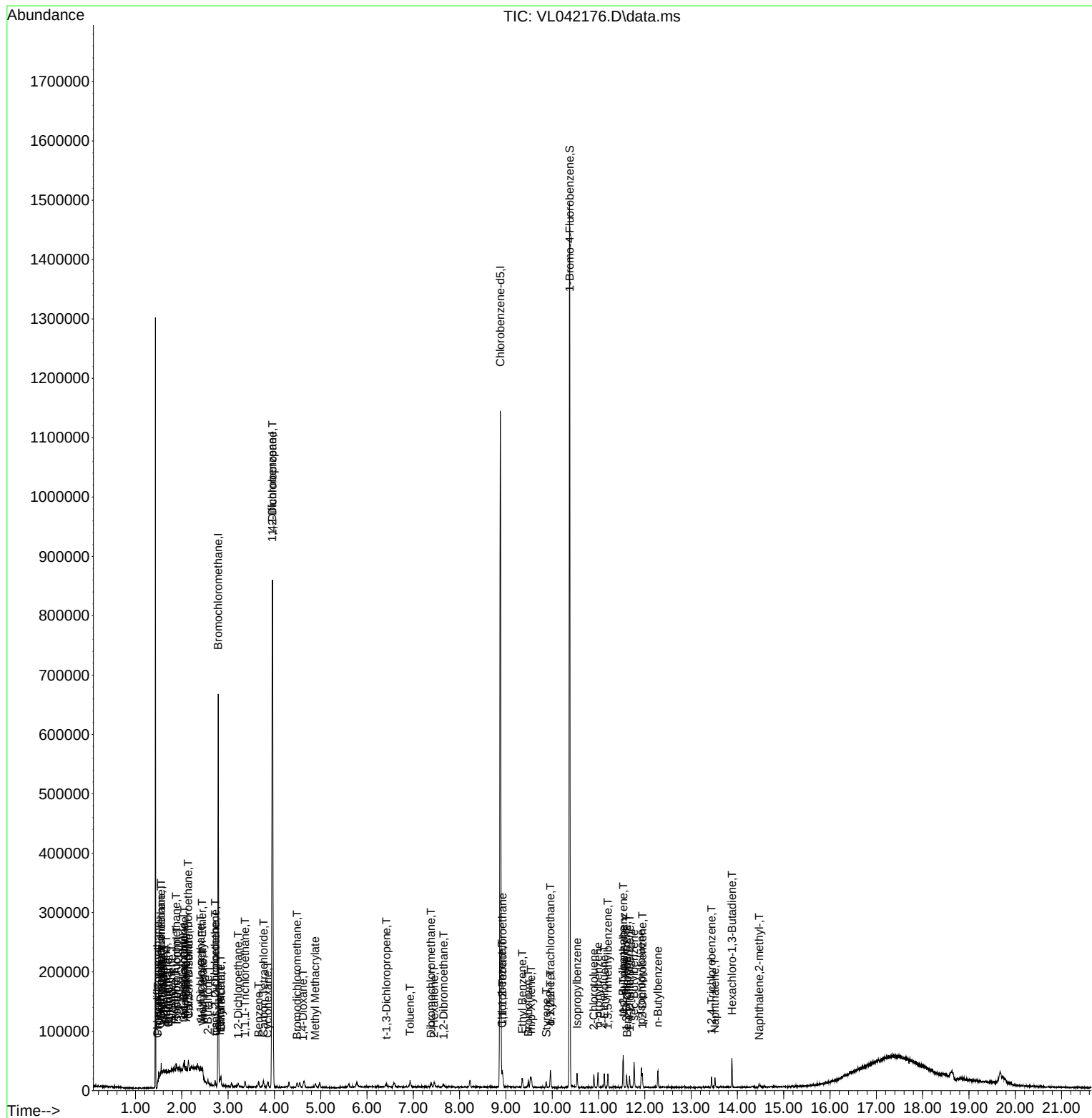
Quant Time: Mar 28 01:35:34 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 01:31:23 2025  
 Response via : Initial Calibration

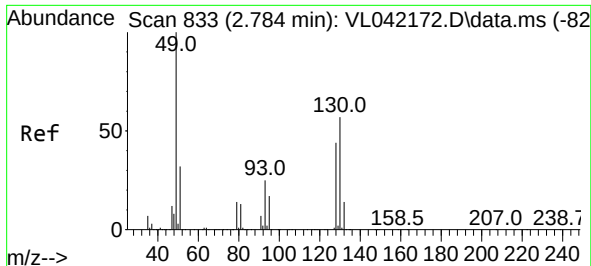
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 1864     | 0.066 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 2963     | 0.112 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.917  | 112  | 4904     | 0.107 | ppbv # | 74       |
| 58) Ethyl Benzene             | 9.354  | 91   | 8648     | 0.101 | ppbv   | 93       |
| 59) m/p-Xylene                | 9.545  | 91   | 6005     | 0.088 | ppbv # | 12       |
| 60) o-Xylene                  | 9.959  | 91   | 8048     | 0.118 | ppbv   | 96       |
| 61) Styrene                   | 9.872  | 104  | 1723     | 0.051 | ppbv # | 25       |
| 62) Isopropylbenzene          | 10.536 | 105  | 10359    | 0.101 | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 1910     | 0.046 | ppbv # | 25       |
| 64) n-propylbenzene           | 10.989 | 120  | 2375     | 0.090 | ppbv # | 62       |
| 65) tert-Butylbenzene         | 11.526 | 119  | 9418     | 0.099 | ppbv   | 94       |
| 66) Benzyl Chloride           | 11.617 | 91   | 844      | 0.084 | ppbv # | 86       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 13775    | 0.105 | ppbv   | 96       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 11366    | 0.100 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.280 | 91   | 10697    | 0.092 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 8347     | 0.105 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 8579     | 0.101 | ppbv # | 84       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 8407     | 0.113 | ppbv   | 91       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 10341    | 0.121 | ppbv # | 95       |
| 75) 1,3-Dichlorobenzene       | 11.604 | 146  | 4426     | 0.094 | ppbv   | 94       |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 4552     | 0.097 | ppbv   | 95       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 4867     | 0.106 | ppbv   | 93       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 4755     | 0.102 | ppbv   | 94       |
| 79) Naphthalene               | 13.513 | 128  | 7882     | 0.084 | ppbv # | 92       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 2174     | 0.048 | ppbv # | 78       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 2557     | 0.059 | ppbv   | 98       |

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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICC0.1

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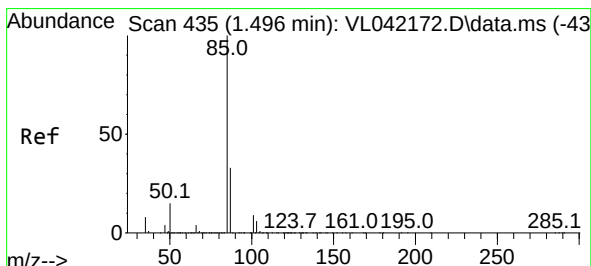
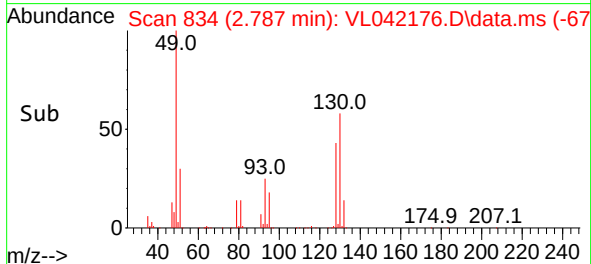
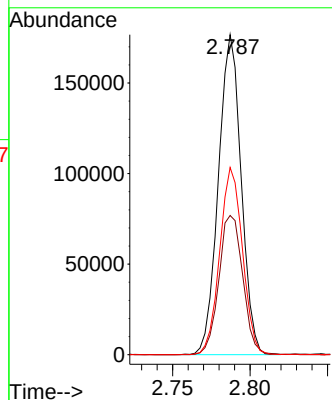
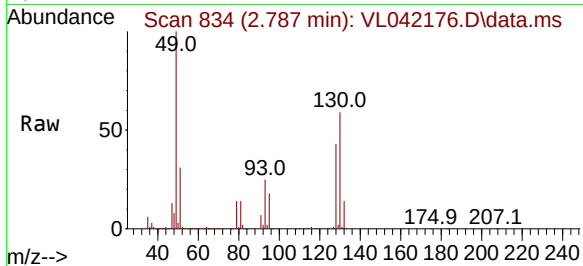




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

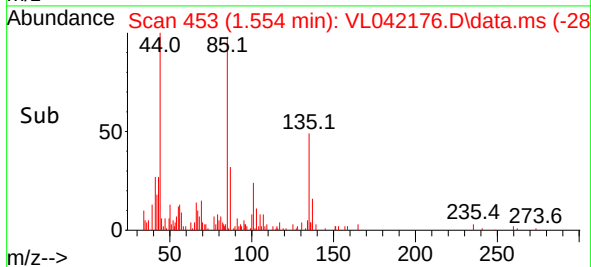
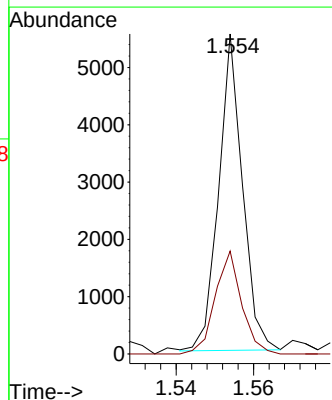
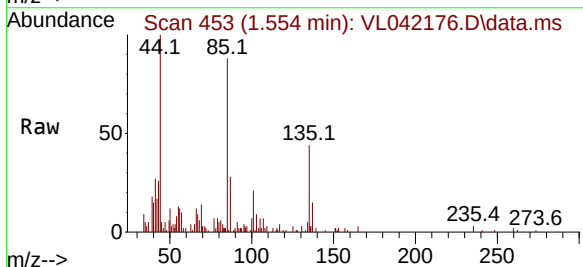
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MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

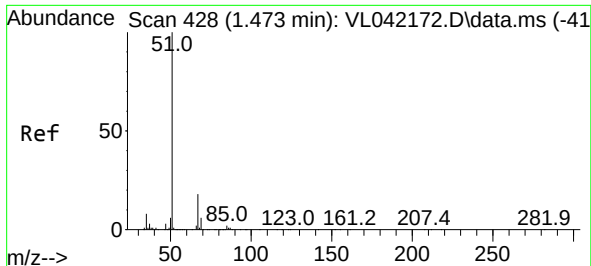
Tgt Ion: 49 Resp: 180740  
Ion Ratio Lower Upper  
49 100  
128 45.6 22.9 68.5  
130 58.5 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 0.088 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. 0.058 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 85 Resp: 2353  
Ion Ratio Lower Upper  
85 100  
87 32.5 26.1 39.1

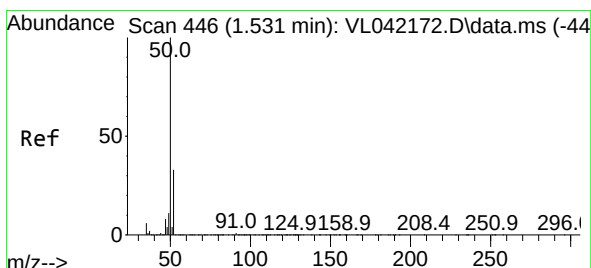
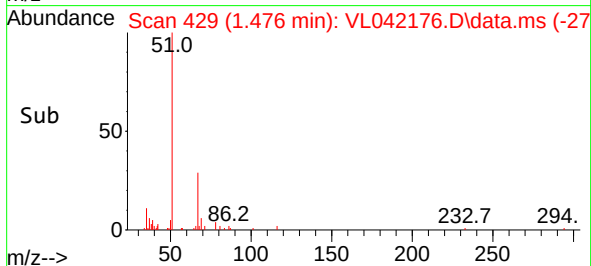
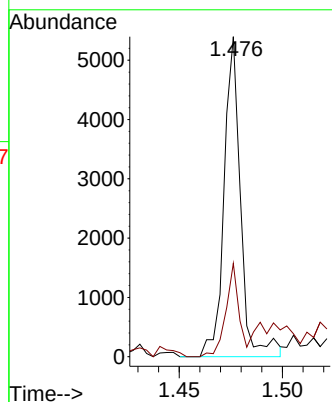
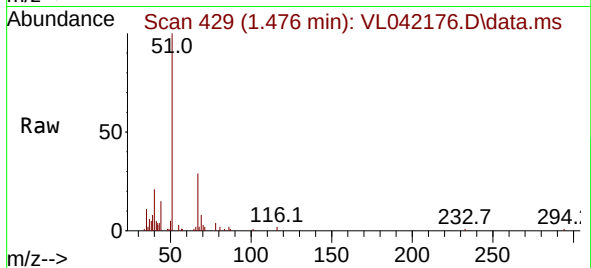




#3  
Chlorodifluoromethane  
Concen: 0.110 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

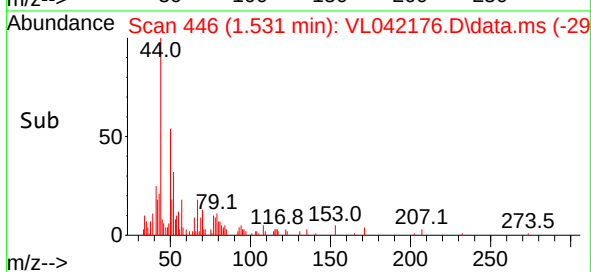
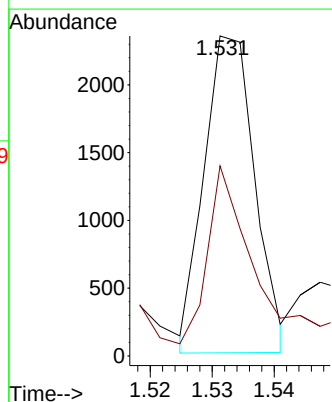
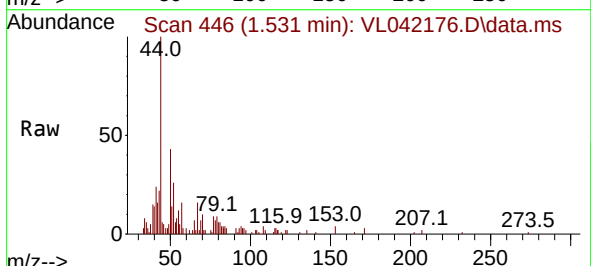
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MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

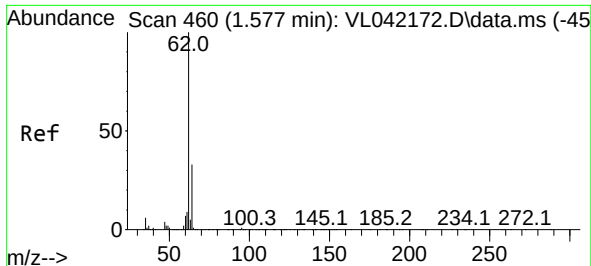
Tgt Ion: 51 Resp: 3006  
Ion Ratio Lower Upper  
51 100  
67 45.8 15.0 22.6#



#4  
Chloromethane  
Concen: 0.122 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 50 Resp: 1330  
Ion Ratio Lower Upper  
50 100  
52 59.3 26.1 39.1#

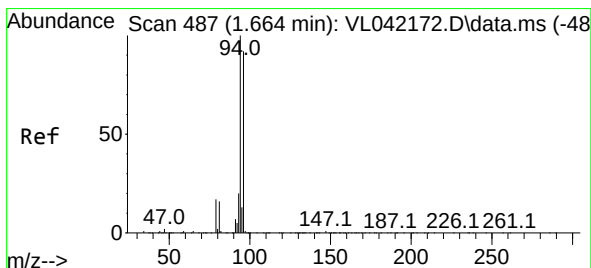
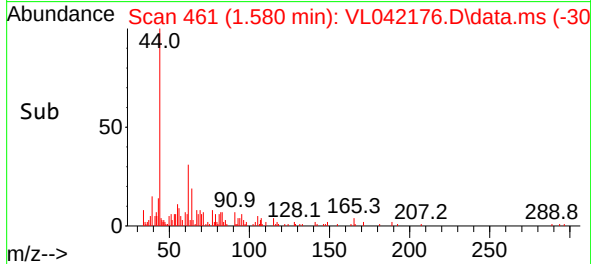
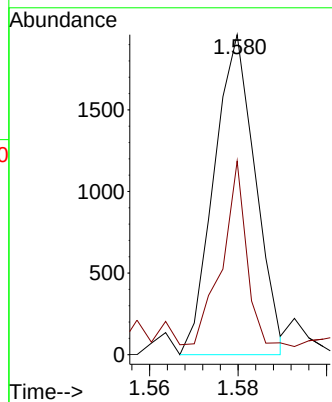
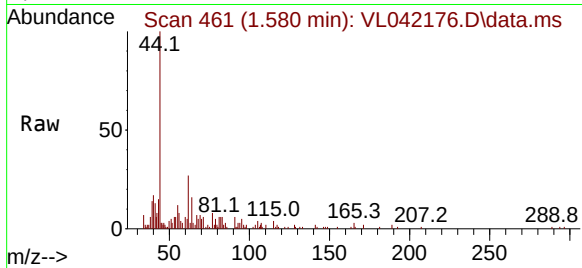




#5  
 Vinyl Chloride  
 Concen: 0.115 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. 0.003 min  
 Lab File: VL042176.D  
 Acq: 27 Mar 2025 10:32

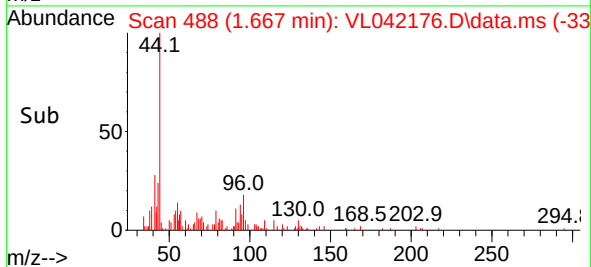
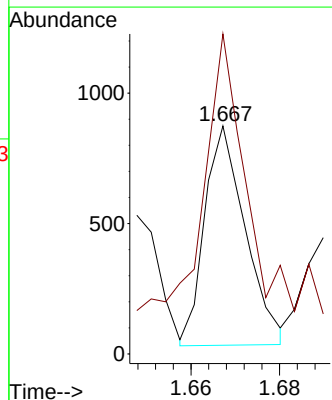
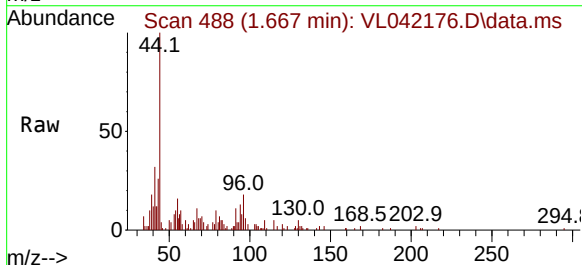
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 ClientSampleId :  
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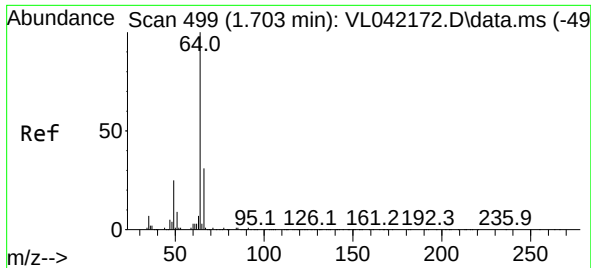
Tgt Ion: 62 Resp: 1274  
 Ion Ratio Lower Upper  
 62 100  
 64 66.4 26.6 40.0#



#6  
 Bromomethane  
 Concen: 0.109 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. 0.003 min  
 Lab File: VL042176.D  
 Acq: 27 Mar 2025 10:32

Tgt Ion: 94 Resp: 537  
 Ion Ratio Lower Upper  
 94 100  
 96 116.6 73.1 109.7#

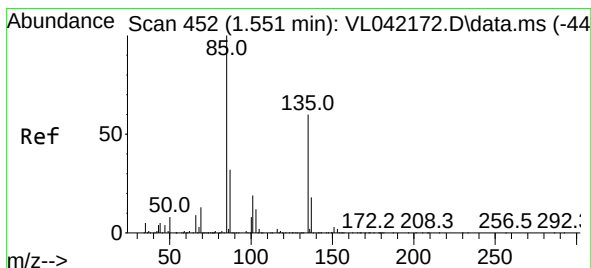
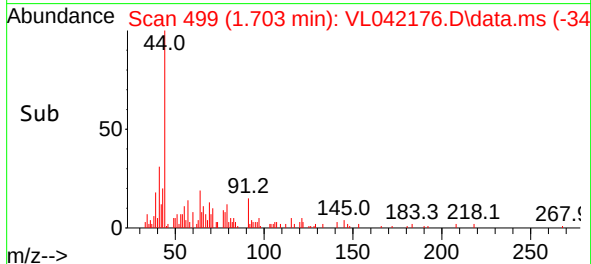
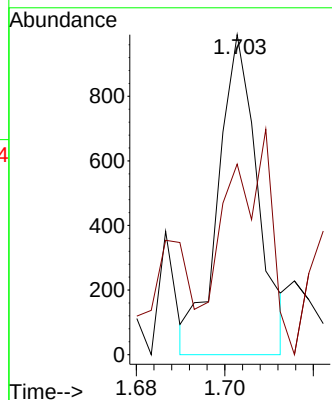
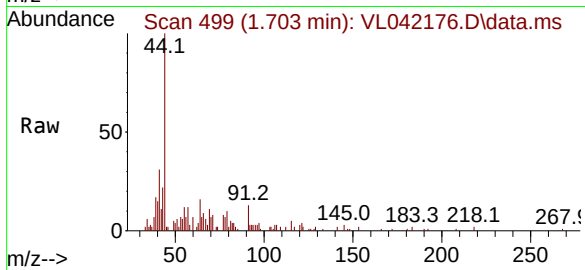




#7  
Chloroethane  
Concen: 0.141 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

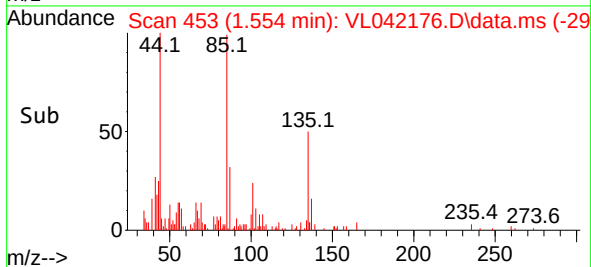
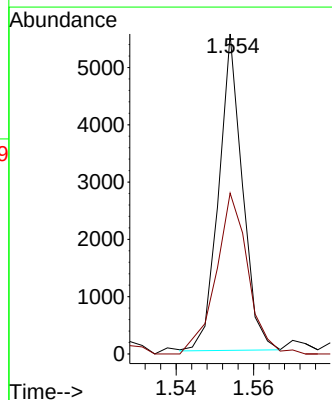
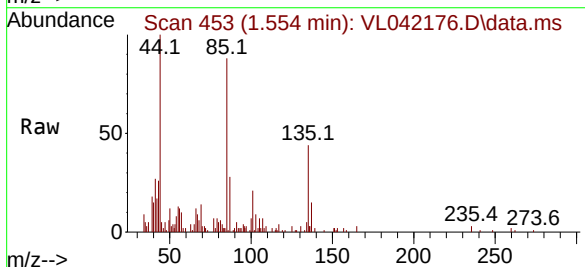
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

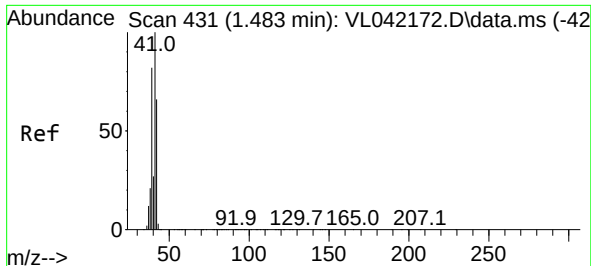
Tgt Ion: 64 Resp: 616  
Ion Ratio Lower Upper  
64 100  
66 59.5 25.2 37.8#



#8  
Dichlorotetrafluoroethane  
Concen: 0.104 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 85 Resp: 2353  
Ion Ratio Lower Upper  
85 100  
135 71.7 52.4 78.6





#9

Propene

Concen: 0.135 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA\_1

ClientSampleId :

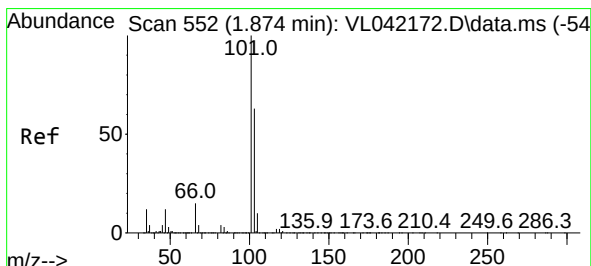
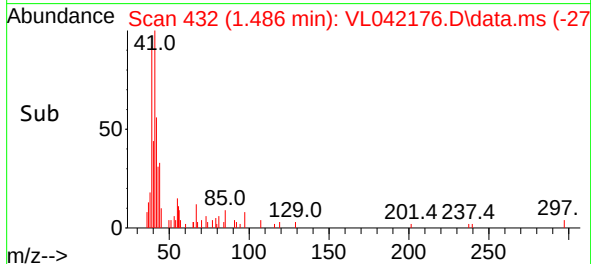
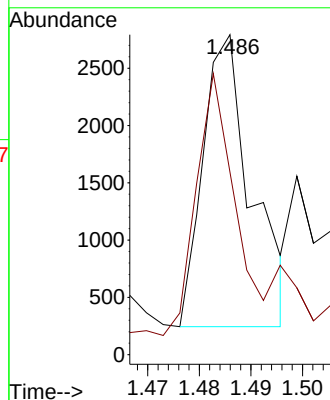
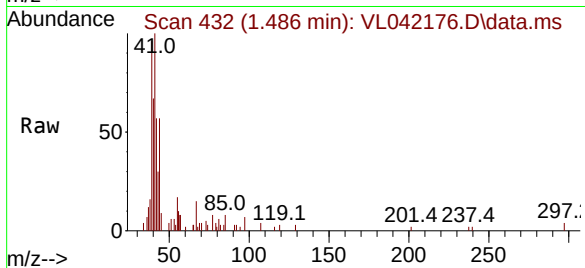
VSTDIC0.1

Tgt Ion: 41 Resp: 1664

Ion Ratio Lower Upper

41 100

42 115.3 55.4 83.2#



#11

Trichlorofluoromethane

Concen: 0.102 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL042176.D

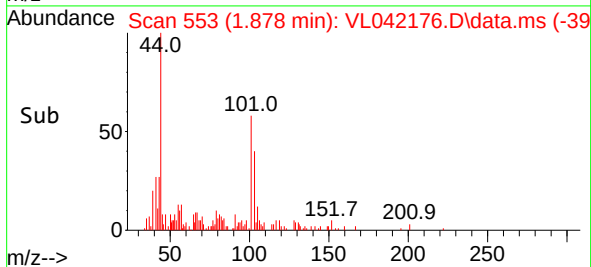
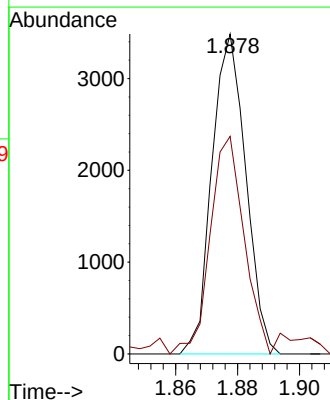
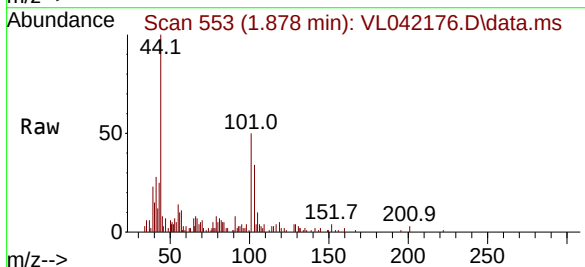
Acq: 27 Mar 2025 10:32

Tgt Ion:101 Resp: 2644

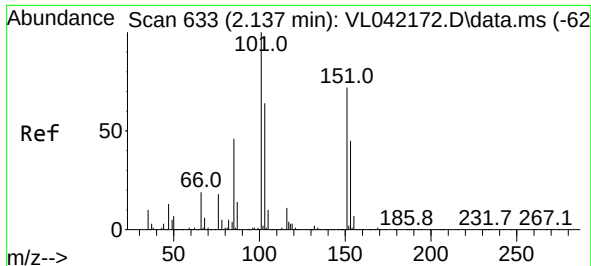
Ion Ratio Lower Upper

101 100

103 64.7 50.2 75.2



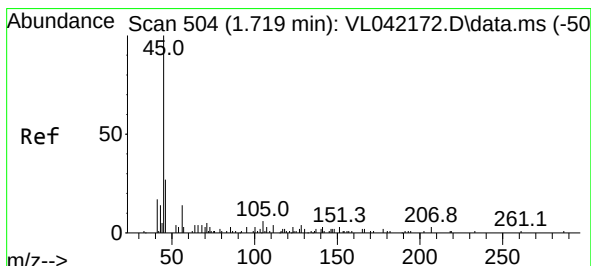
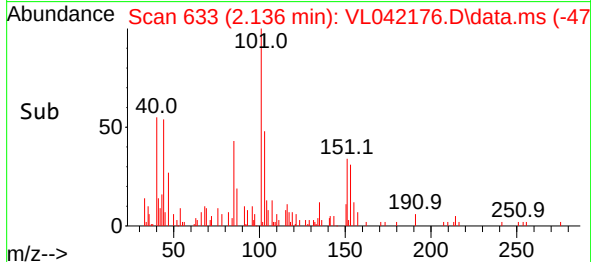
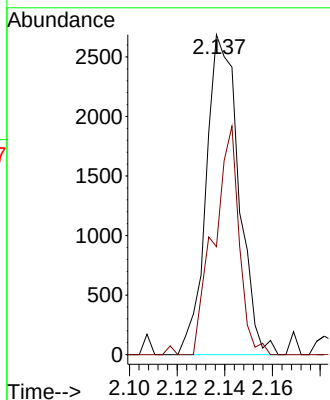
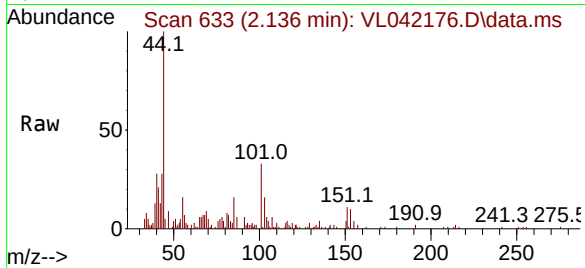




#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.120 ppbv  
RT: 2.136 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

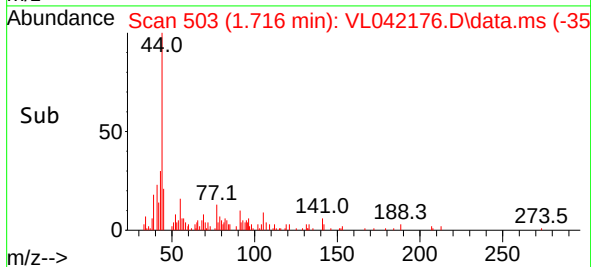
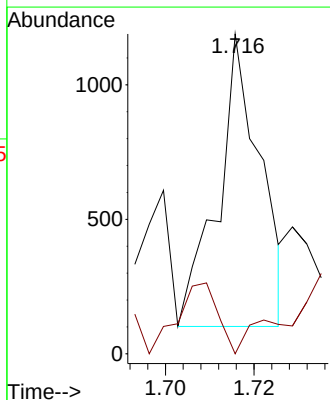
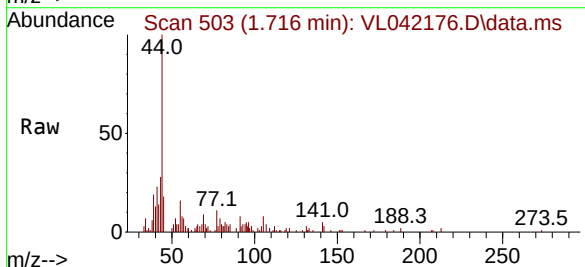
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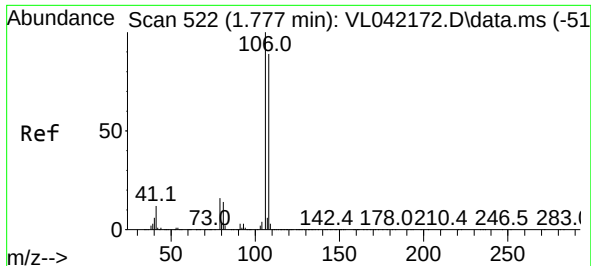
Tgt Ion:101 Resp: 2551  
Ion Ratio Lower Upper  
101 100  
151 55.7 57.1 85.7#



#13  
Ethanol  
Concen: 0.750 ppbv  
RT: 1.716 min Scan# 503  
Delta R.T. -0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 45 Resp: 721  
Ion Ratio Lower Upper  
45 100  
46 22.9 20.2 80.8

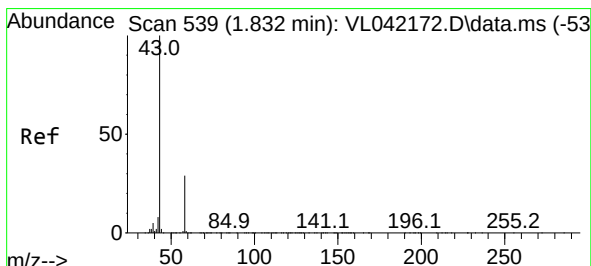
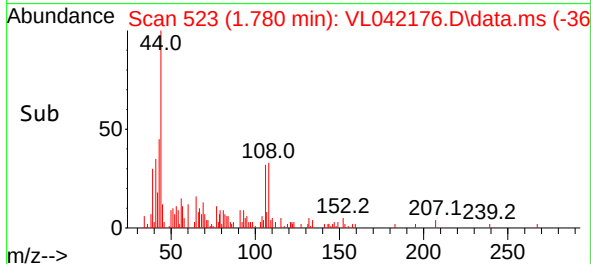
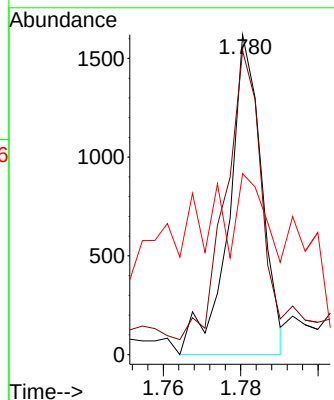
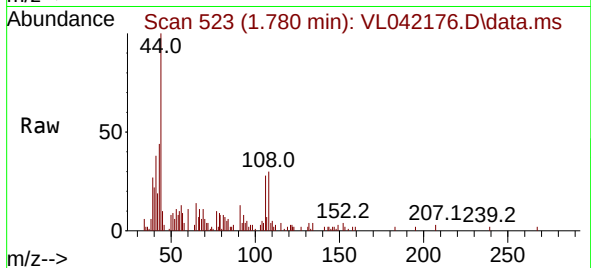




#14  
Bromoethene  
Concen: 0.117 ppbv  
RT: 1.780 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

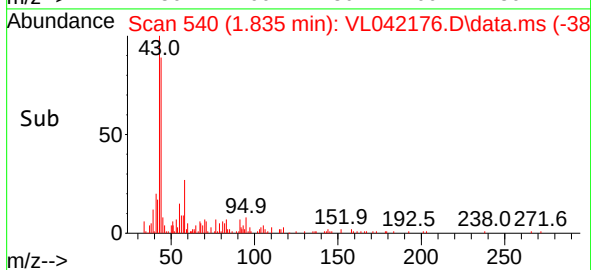
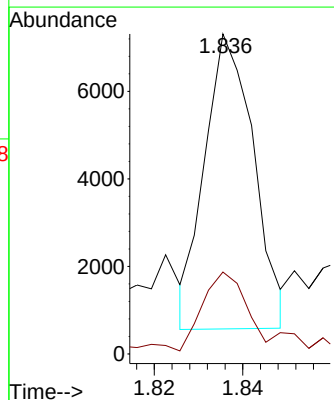
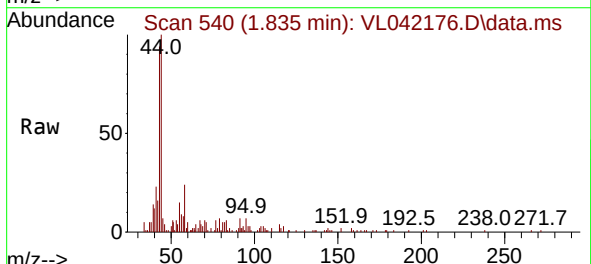
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ClientSampleId :  
VSTDIC0.1

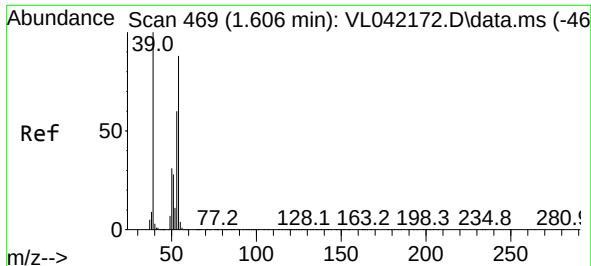
Tgt Ion:108 Resp: 956  
Ion Ratio Lower Upper  
108 100  
106 177.0 86.8 130.2#  
79 120.6 15.0 22.6#



#15  
Acetone  
Concen: 0.205 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 43 Resp: 5179  
Ion Ratio Lower Upper  
43 100  
58 33.1 23.2 34.8

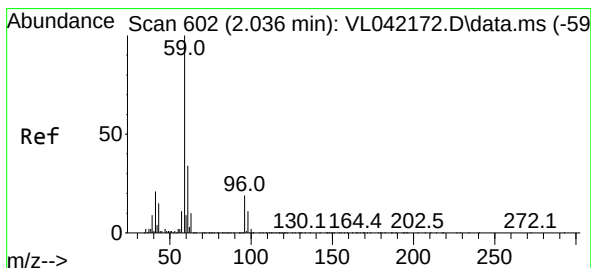
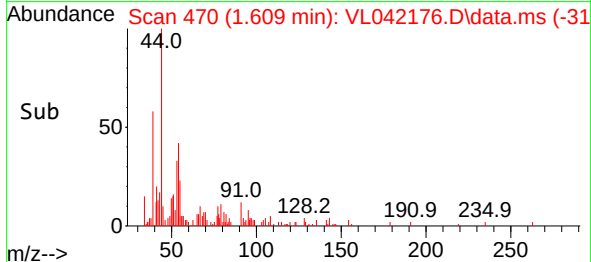
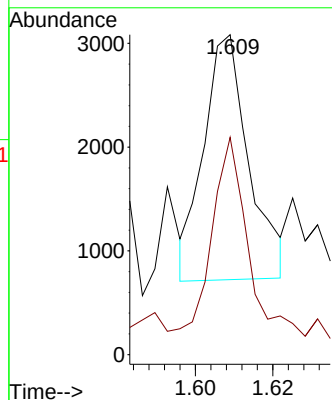
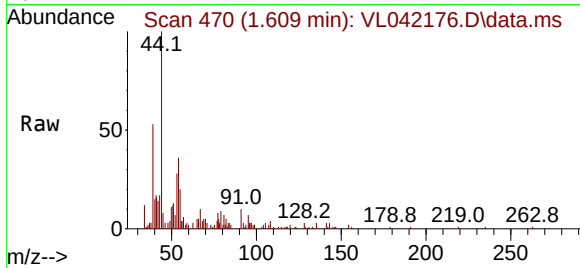




#16  
1,3-Butadiene  
Concen: 0.168 ppbv  
RT: 1.609 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

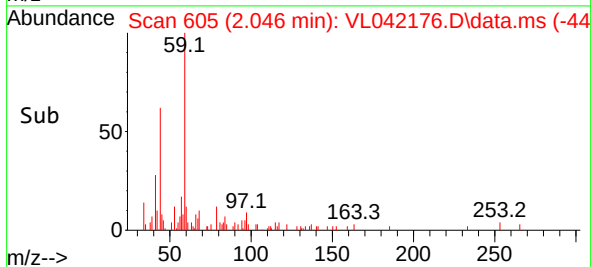
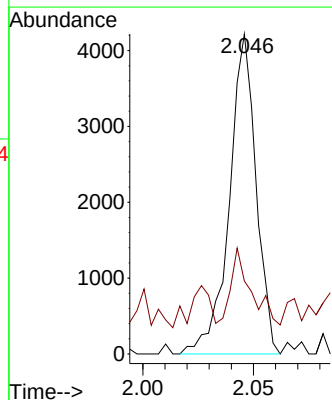
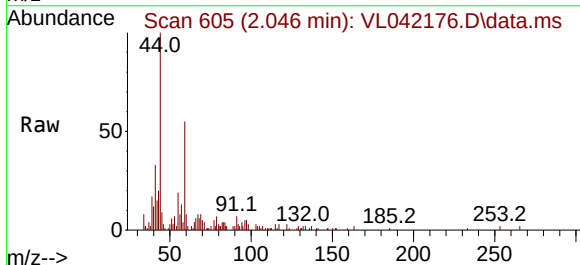
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

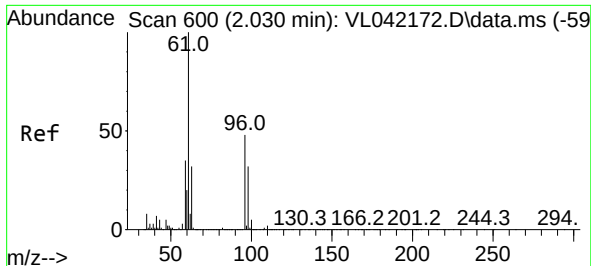
Tgt Ion: 39 Resp: 1912  
Ion Ratio Lower Upper  
39 100  
54 70.7 60.7 91.1



#17  
tert-Butyl alcohol  
Concen: 0.113 ppbv  
RT: 2.046 min Scan# 605  
Delta R.T. 0.010 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 59 Resp: 3546  
Ion Ratio Lower Upper  
59 100  
57 37.8 8.9 13.3#

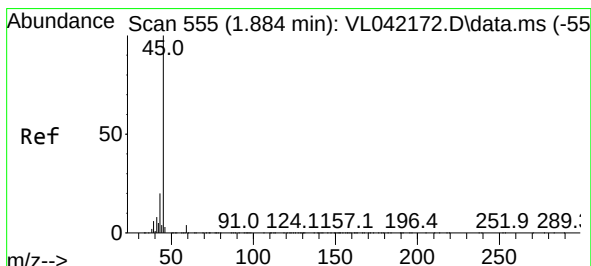
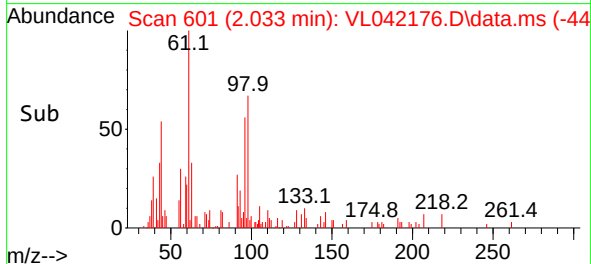
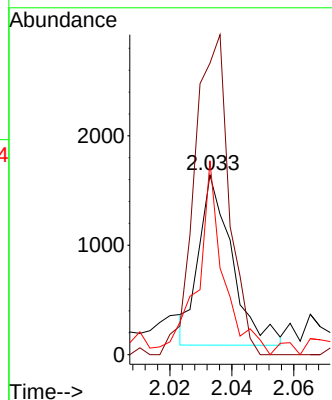
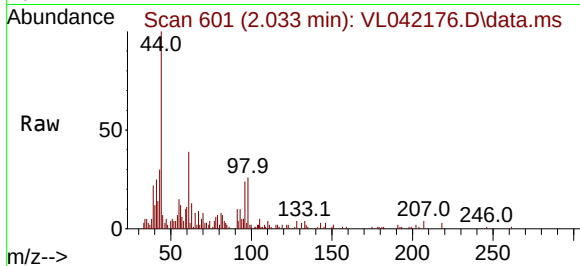




#18  
1,1-Dichloroethene  
Concen: 0.116 ppbv  
RT: 2.033 min Scan# 600  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

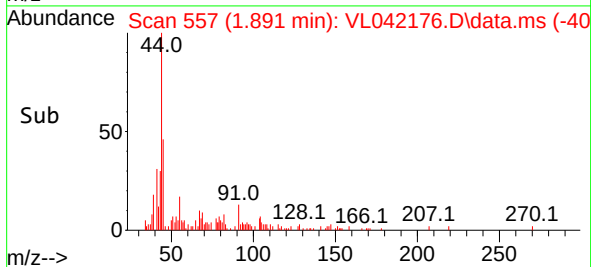
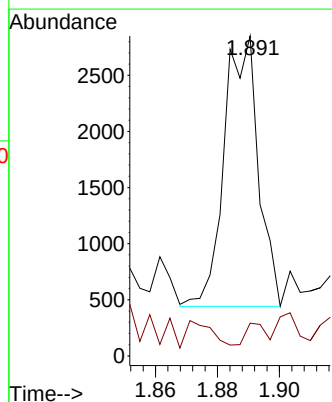
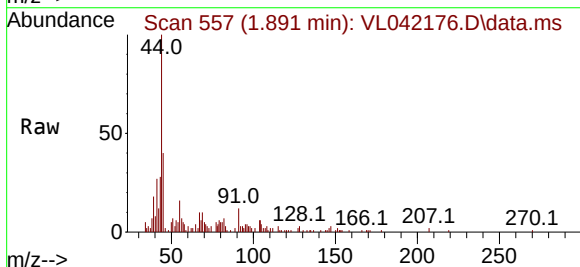
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

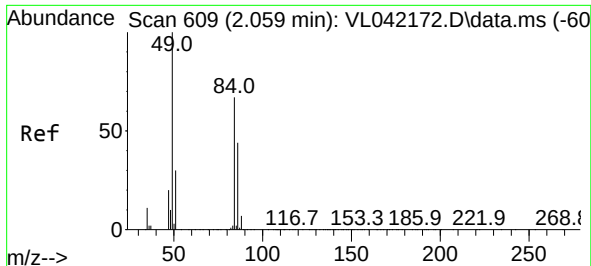
Tgt Ion: 96 Resp: 1155  
Ion Ratio Lower Upper  
96 100  
61 179.9 167.6 251.4  
98 112.6 53.5 80.3#



#19  
Isopropyl Alcohol  
Concen: 0.129 ppbv  
RT: 1.891 min Scan# 557  
Delta R.T. 0.006 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 45 Resp: 1838  
Ion Ratio Lower Upper  
45 100  
58 12.5 36.9 55.3#

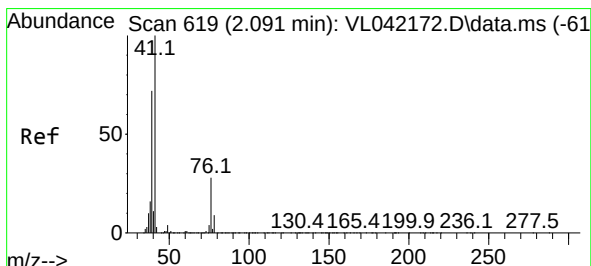
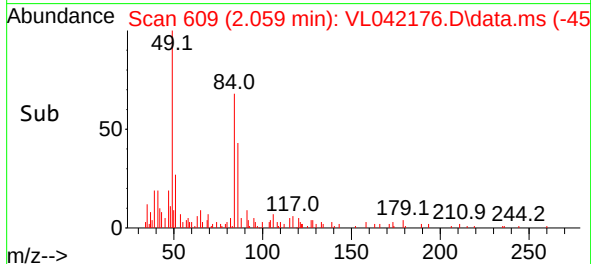
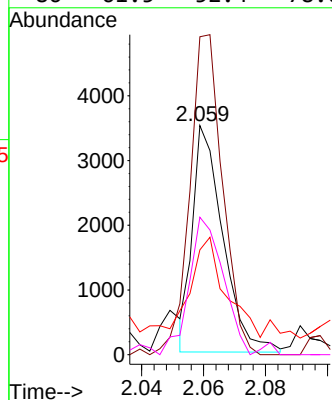
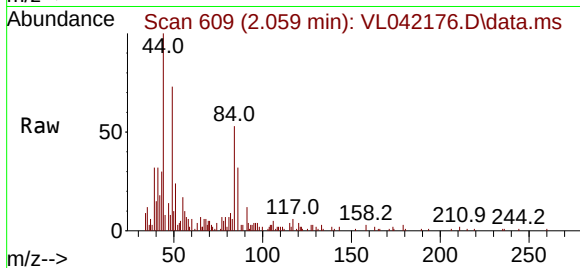




#20  
Methylene Chloride  
Concen: 0.254 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

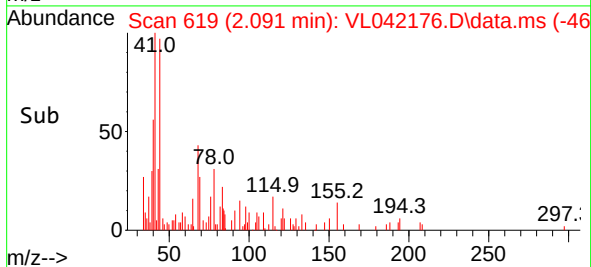
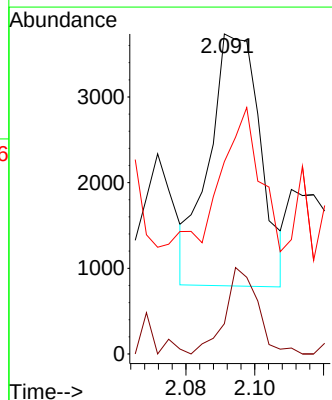
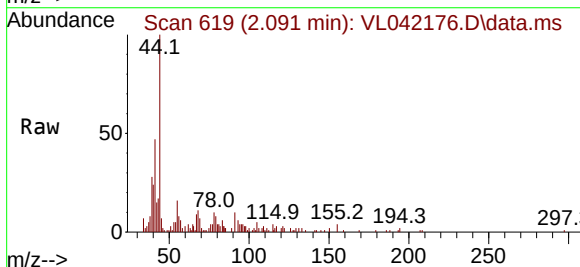
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

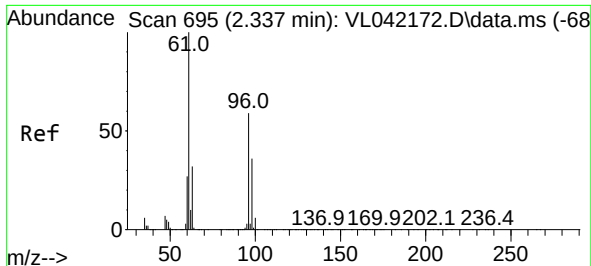
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 2388  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 132.5 | 120.2 | 180.4 |
| 51       | 37.3  | 37.4  | 56.0# |
| 86       | 61.5  | 52.4  | 78.6  |



#21  
Allyl Chloride  
Concen: 0.171 ppbv  
RT: 2.091 min Scan# 619  
Delta R.T. -0.000 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 3040  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 21.8  | 24.1  | 36.1# |
| 39       | 98.7  | 61.1  | 91.7# |

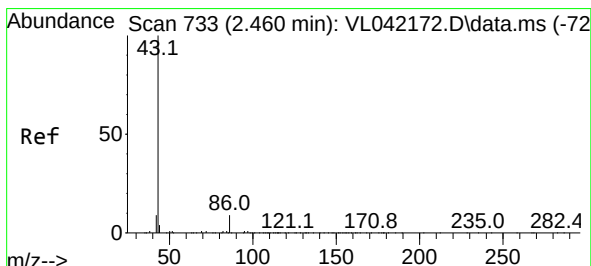
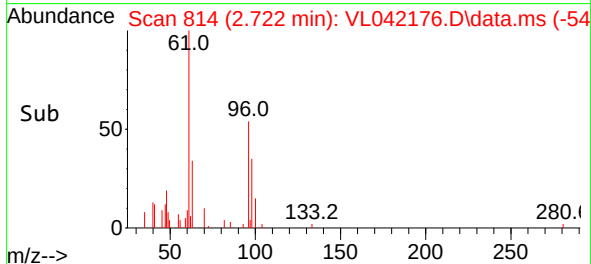
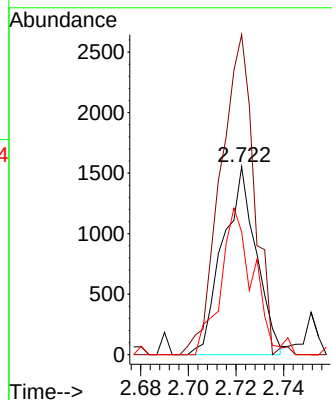
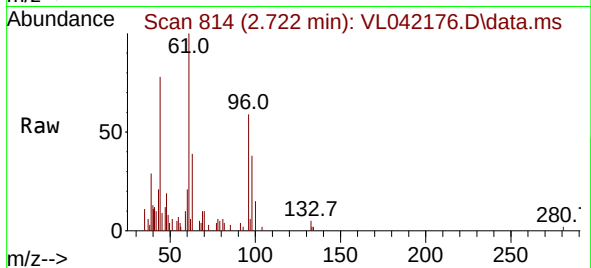




#22  
trans-1,2-Dichloroethene  
Concen: 0.130 ppbv  
RT: 2.722 min Scan# 814  
Delta R.T. 0.385 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

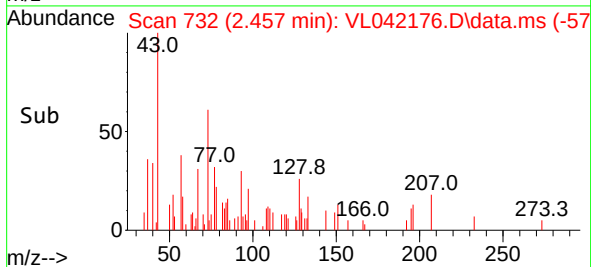
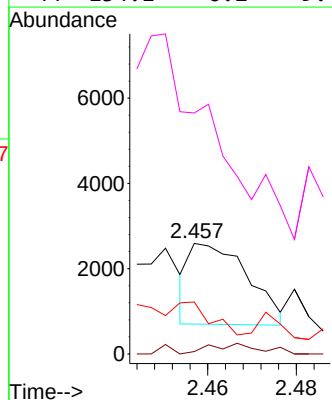
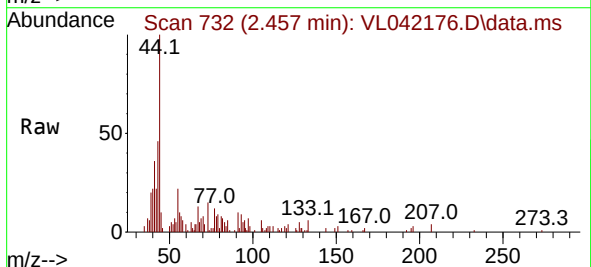
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

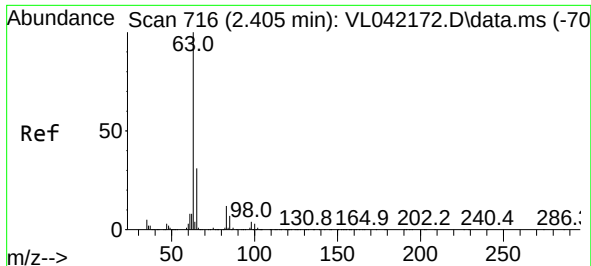
Tgt Ion: 96 Resp: 1512  
Ion Ratio Lower Upper  
96 100  
61 170.3 136.6 204.8  
98 65.4 49.4 74.2



#23  
Vinyl Acetate  
Concen: 0.166 ppbv  
RT: 2.457 min Scan# 732  
Delta R.T. -0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 43 Resp: 1746  
Ion Ratio Lower Upper  
43 100  
86 3.5 5.5 8.3#  
42 32.0 8.6 13.0#  
44 134.1 6.2 9.4#

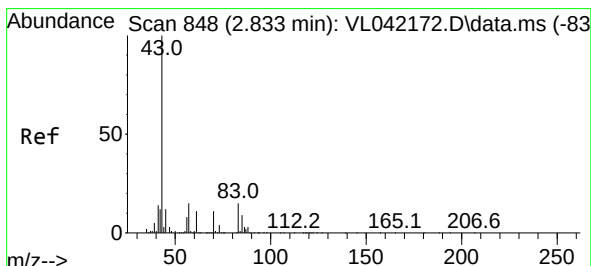
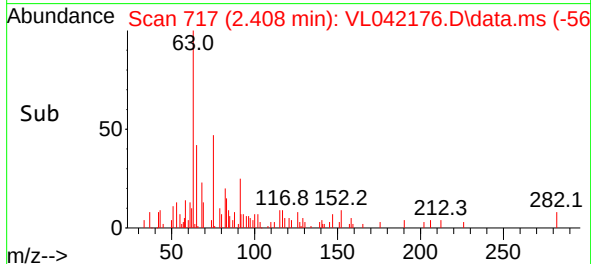
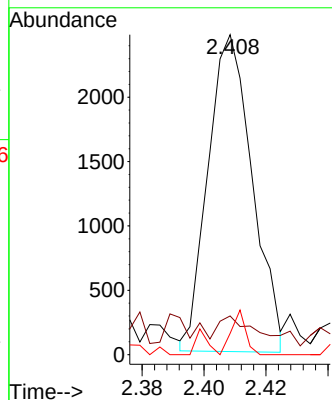
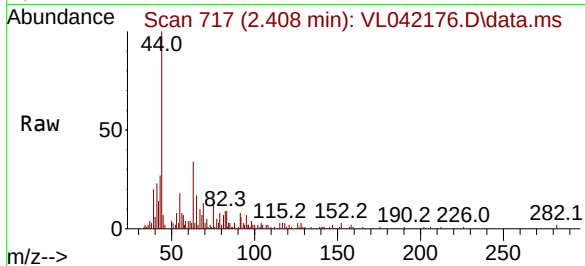




#24  
1,1-Dichloroethane  
Concen: 0.114 ppbv  
RT: 2.408 min Scan# 716  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

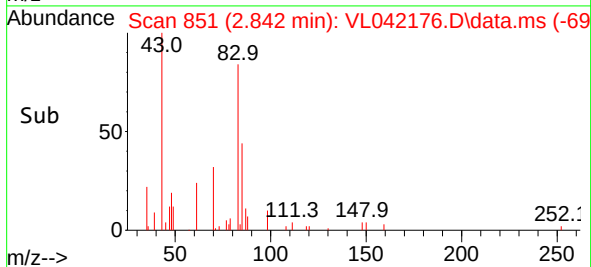
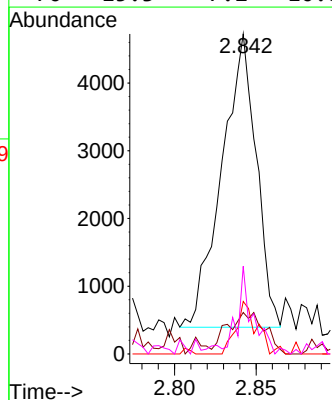
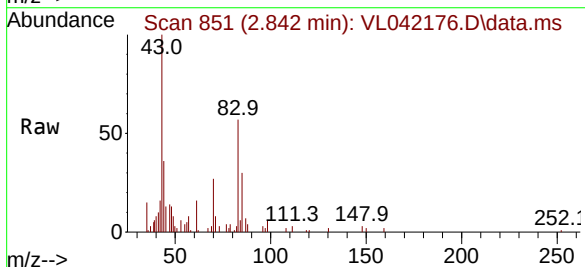
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

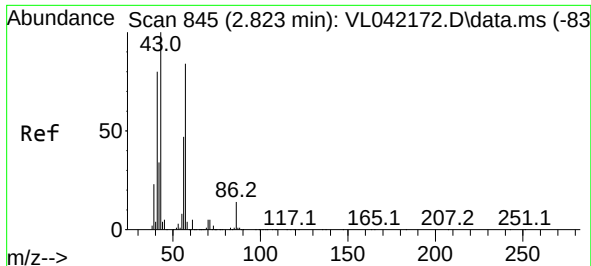
|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 2446  |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 98 6.3      | 2.3 6.8     |
| 100 6.9     | 1.6 4.7#    |



#25  
Ethyl Acetate  
Concen: 0.097 ppbv  
RT: 2.842 min Scan# 851  
Delta R.T. 0.010 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 6359  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 22.8     | 8.2 12.2#   |
| 61 11.2     | 7.3 10.9#   |
| 70 15.3     | 7.2 10.8#   |

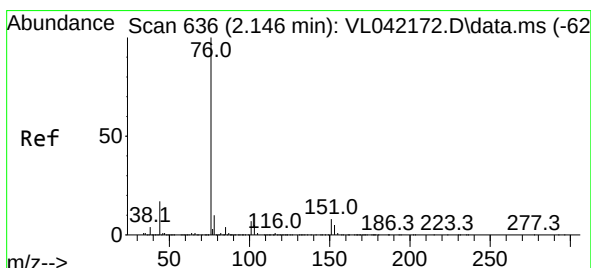
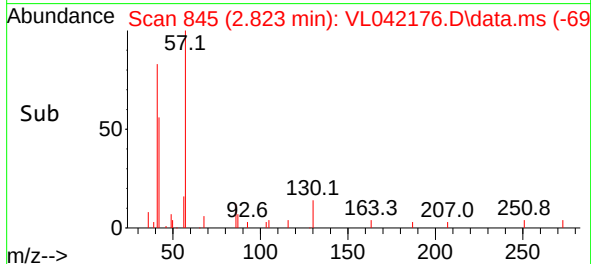
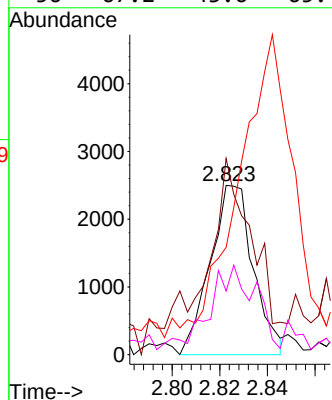
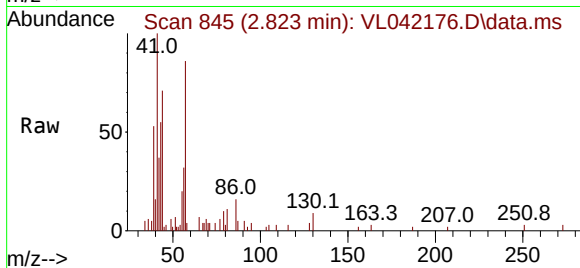




#26  
Hexane  
Concen: 0.123 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

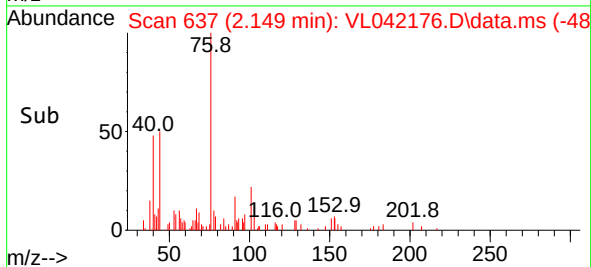
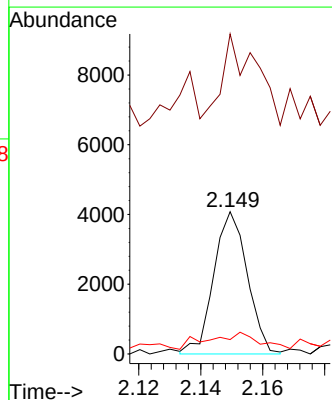
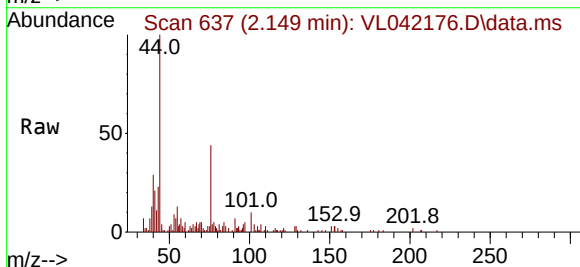
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 3126   |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 96.0  | 76.6  | 114.8  |
| 43       | 0.0   | 207.8 | 311.8# |
| 56       | 67.2  | 43.6  | 65.4#  |

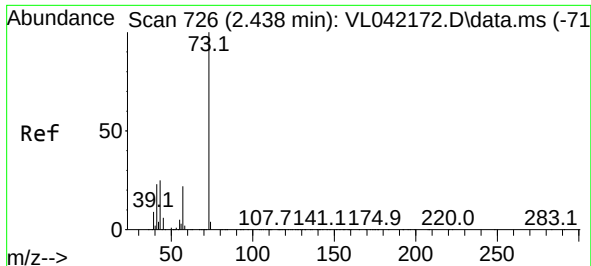


#27  
Carbon Disulfide  
Concen: 0.113 ppbv  
RT: 2.149 min Scan# 637  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 76    | Resp: | 3075  |
| Ion      | Ratio | Lower | Upper |
| 76       | 100   |       |       |
| 44       | 436.3 | 14.7  | 22.1# |
| 78       | 28.7  | 9.3   | 13.9# |



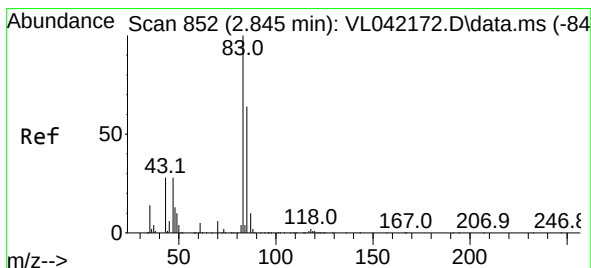
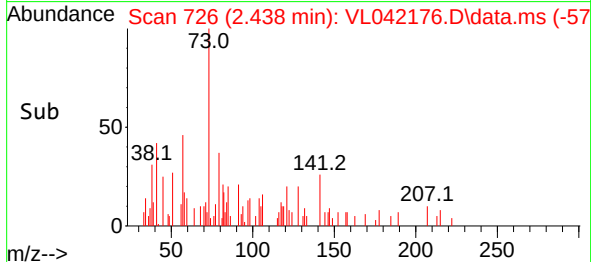
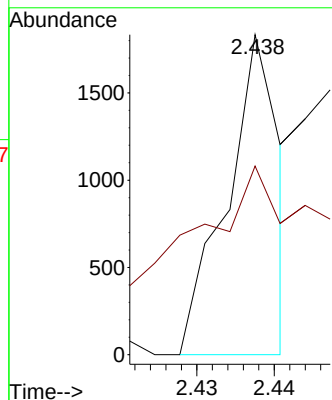
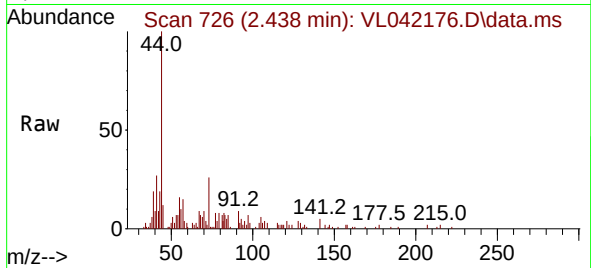




#28  
Methyl tert-Butyl Ether  
Concen: 0.055 ppbv  
RT: 2.438 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

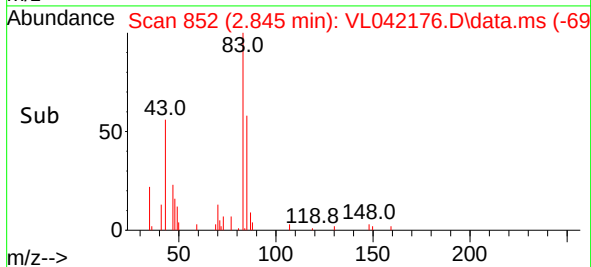
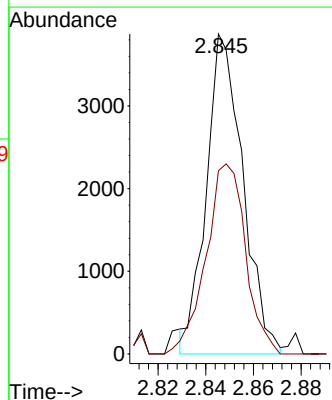
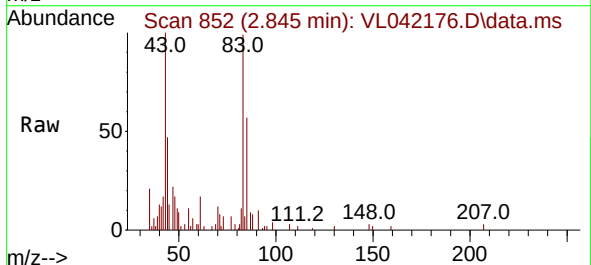
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

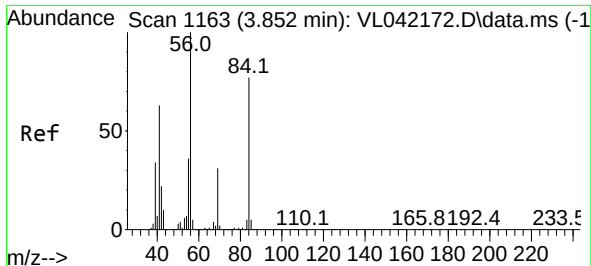
Tgt Ion: 73 Resp: 875  
Ion Ratio Lower Upper  
73 100  
57 0.0 20.5 30.7#



#29  
Chloroform  
Concen: 0.111 ppbv  
RT: 2.845 min Scan# 852  
Delta R.T. -0.000 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 83 Resp: 4120  
Ion Ratio Lower Upper  
83 100  
85 58.4 51.4 77.2

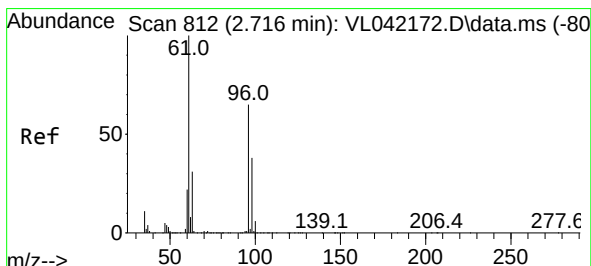
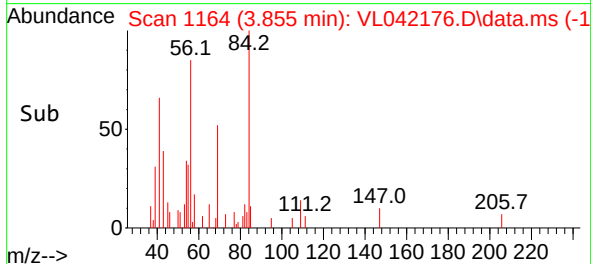
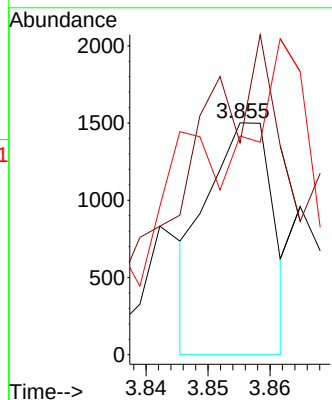
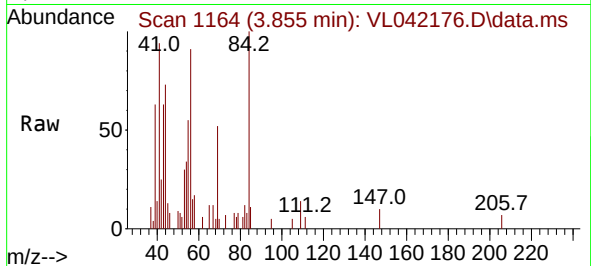




#30  
Cyclohexane  
Concen: 0.051 ppbv  
RT: 3.855 min Scan# 1163  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

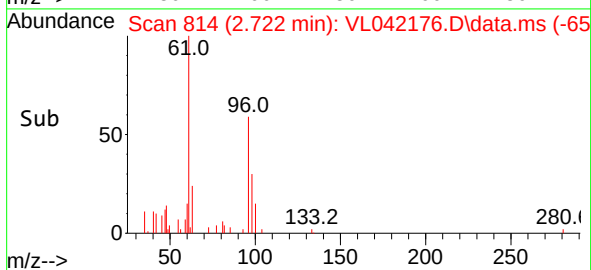
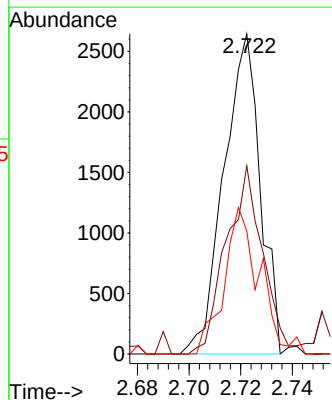
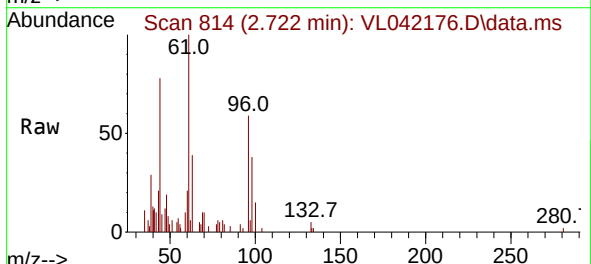
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

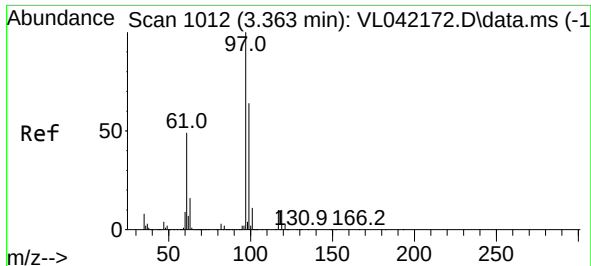
Tgt Ion: 84 Resp: 1113  
Ion Ratio Lower Upper  
84 100  
56 0.0 102.8 154.2#  
41 0.0 66.5 99.7#



#31  
cis-1,2-Dichloroethene  
Concen: 0.101 ppbv  
RT: 2.722 min Scan# 814  
Delta R.T. 0.006 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 61 Resp: 2587  
Ion Ratio Lower Upper  
61 100  
96 58.7 51.8 77.8  
98 38.4 30.6 46.0

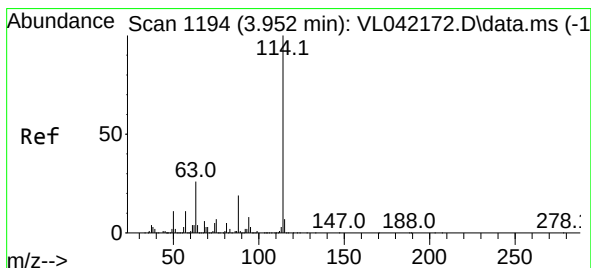
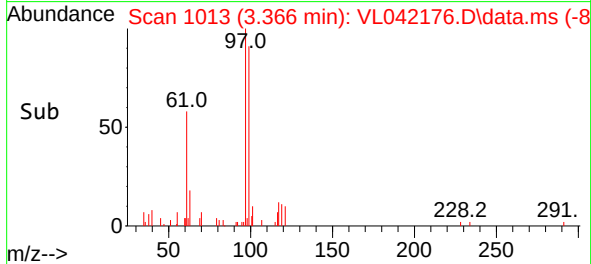
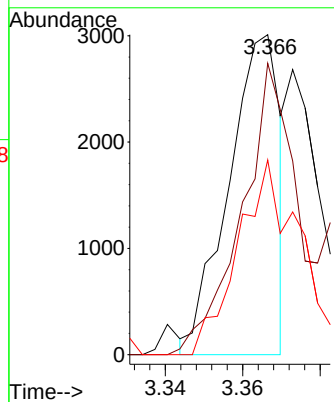
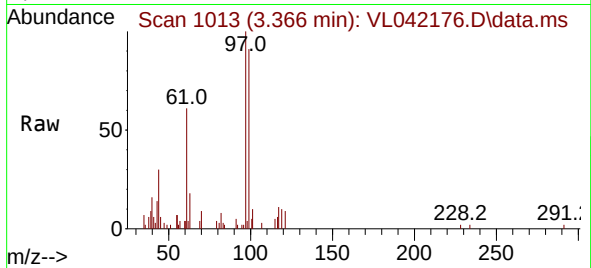




#32  
 1,1,1-Trichloroethane  
 Concen: 0.065 ppbv  
 RT: 3.366 min Scan# 1013  
 Delta R.T. 0.003 min  
 Lab File: VL042176.D  
 Acq: 27 Mar 2025 10:32

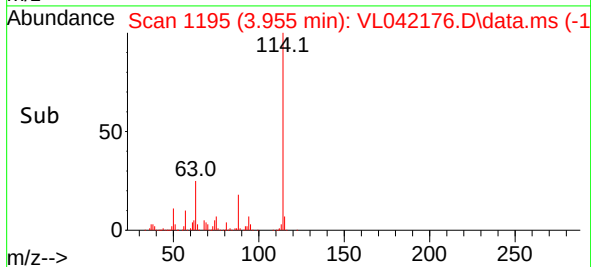
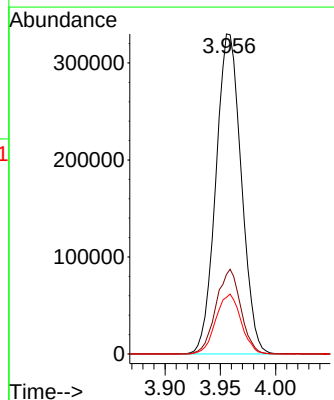
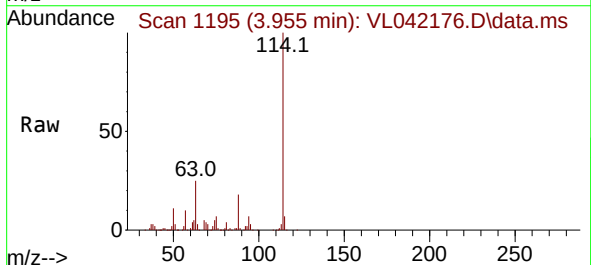
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

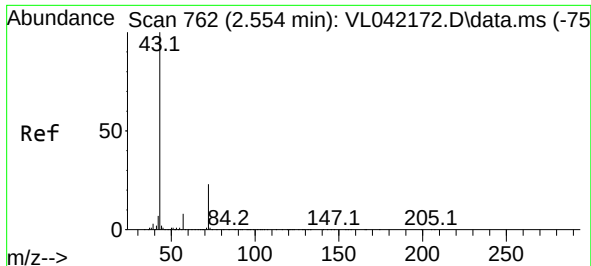
Tgt Ion: 97 Resp: 2773  
 Ion Ratio Lower Upper  
 97 100  
 99 111.5 51.5 77.3#  
 61 73.8 38.7 58.1#



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.955 min Scan# 1195  
 Delta R.T. 0.003 min  
 Lab File: VL042176.D  
 Acq: 27 Mar 2025 10:32

Tgt Ion: 114 Resp: 528028  
 Ion Ratio Lower Upper  
 114 100  
 63 25.8 20.7 31.1  
 88 18.5 15.0 22.4

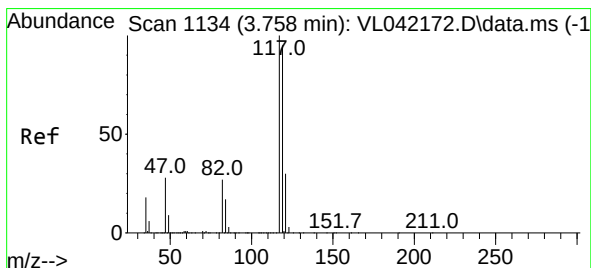
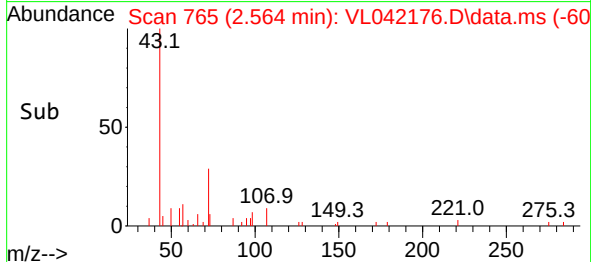
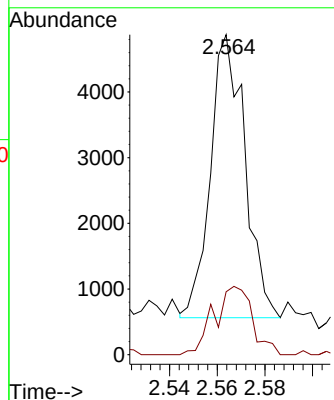
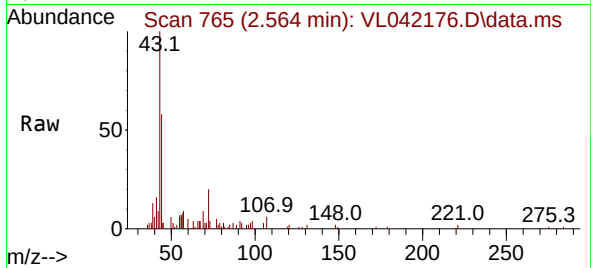




#34  
2-Butanone  
Concen: 0.113 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.010 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

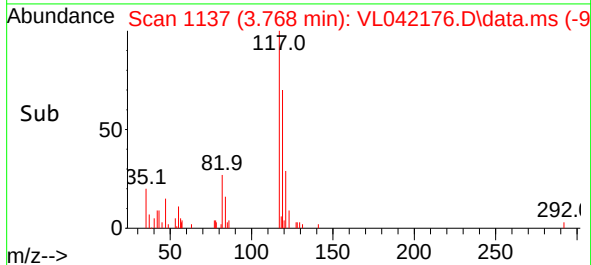
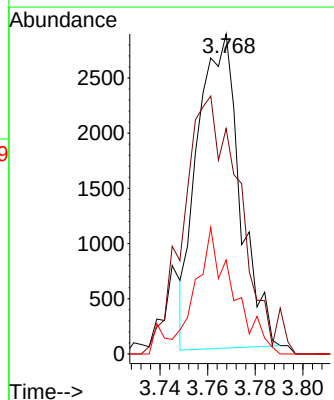
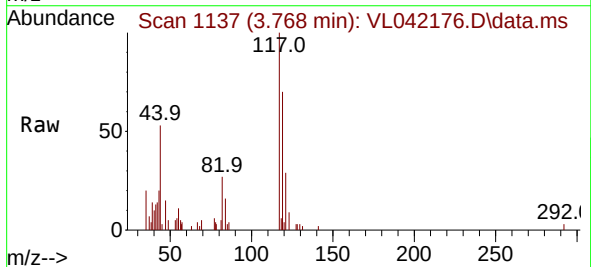
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

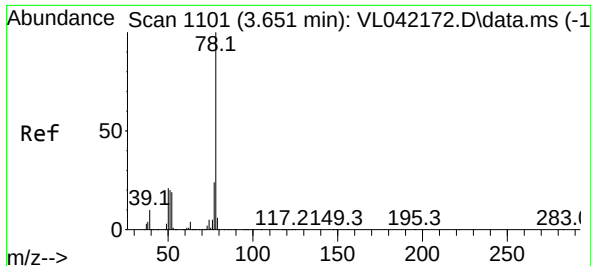
Tgt Ion: 43 Resp: 4331  
Ion Ratio Lower Upper  
43 100  
72 27.0 18.2 27.2



#35  
Carbon Tetrachloride  
Concen: 0.087 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. 0.010 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 117 Resp: 3523  
Ion Ratio Lower Upper  
117 100  
119 57.7 76.2 114.2#  
121 30.1 24.2 36.4

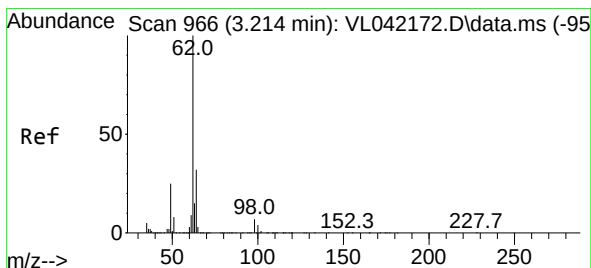
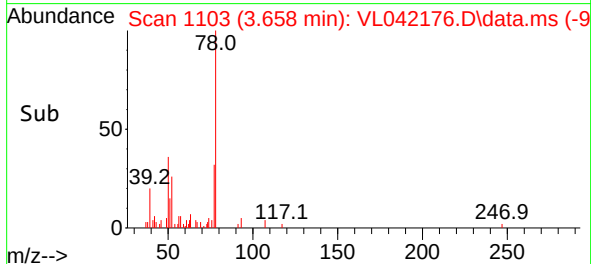
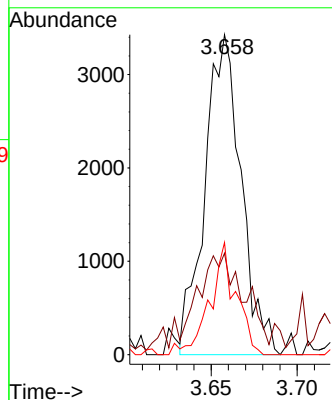
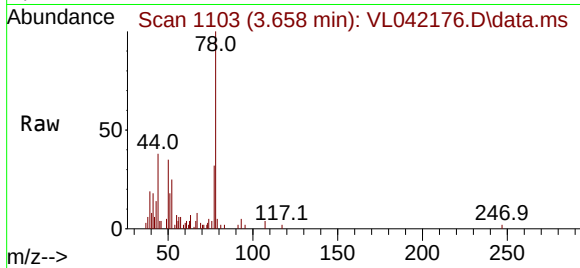




#36  
Benzene  
Concen: 0.096 ppbv  
RT: 3.658 min Scan# 1103  
Delta R.T. 0.006 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

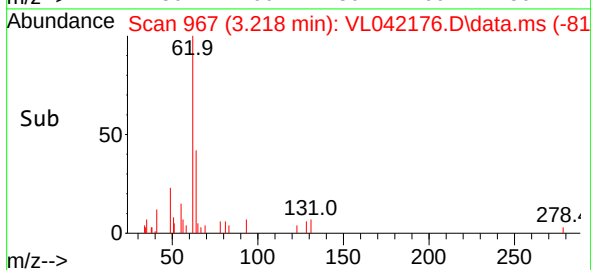
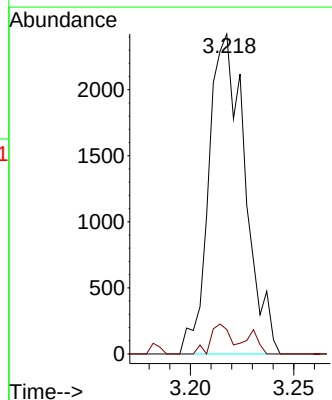
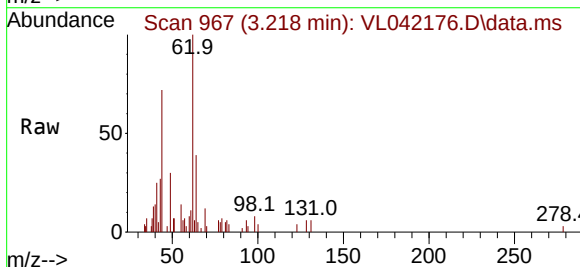
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

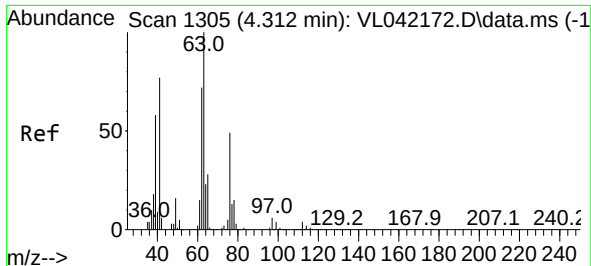
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 78    | Resp: | 5031  |
| Ion      | Ratio | Lower | Upper |
| 78       | 100   |       |       |
| 77       | 27.2  | 19.1  | 28.7  |
| 50       | 35.0  | 16.6  | 24.8  |



#37  
1,2-Dichloroethane  
Concen: 0.098 ppbv  
RT: 3.218 min Scan# 967  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 2942  |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 7.7   | 5.4   | 8.2   |





#39

1,2-Dichloropropane

Concen: 7.123 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

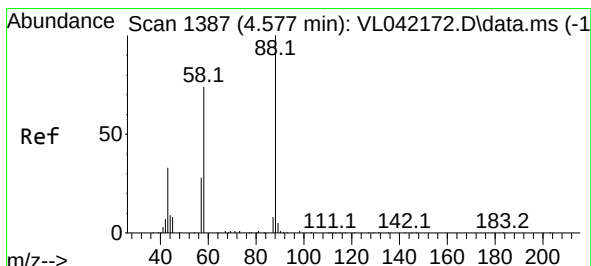
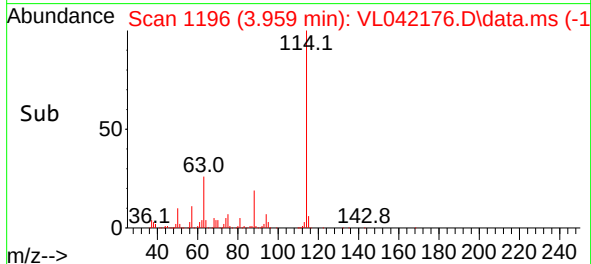
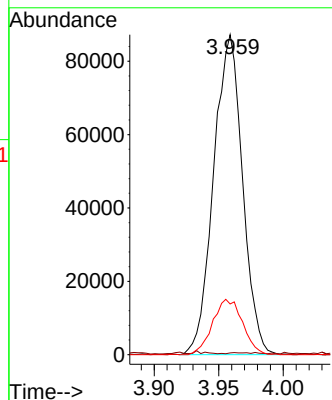
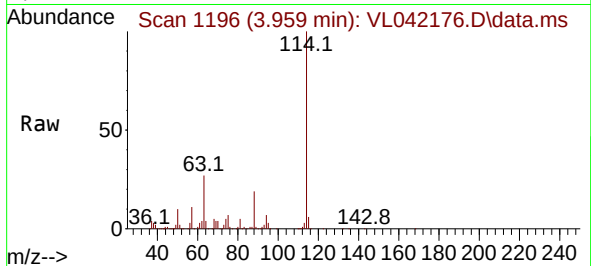
Tgt Ion: 63 Resp: 135792

Ion Ratio Lower Upper

63 100

41 0.3 61.7 92.5#

62 15.9 57.6 86.4#



#40

1,4-Dioxane

Concen: 0.085 ppbv

RT: 4.616 min Scan# 1399

Delta R.T. 0.039 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Tgt Ion: 88 Resp: 843

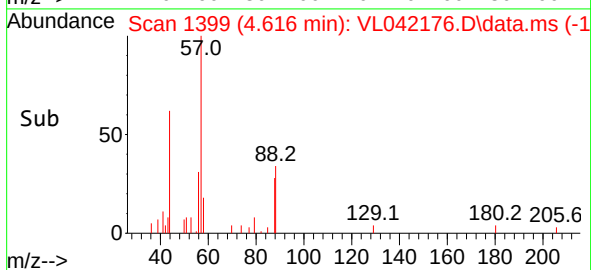
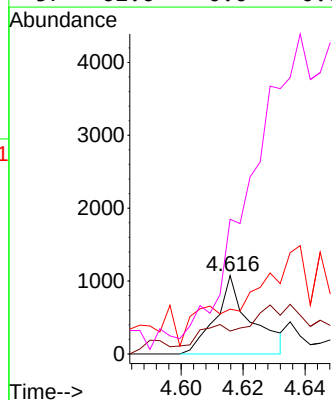
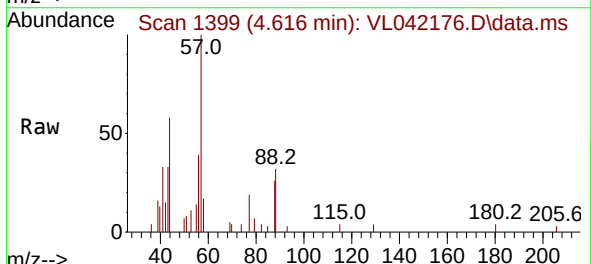
Ion Ratio Lower Upper

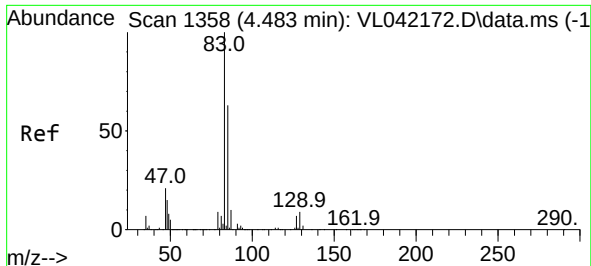
88 100

58 0.0 62.7 94.1#

43 47.9 23.0 34.4#

57 62.6 0.0 0.0#

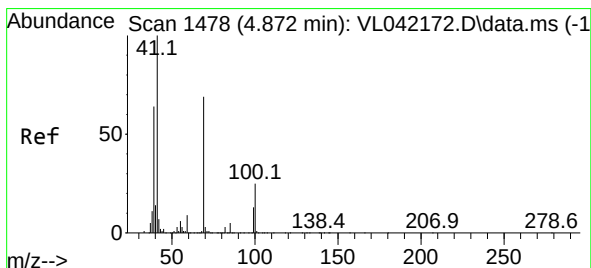
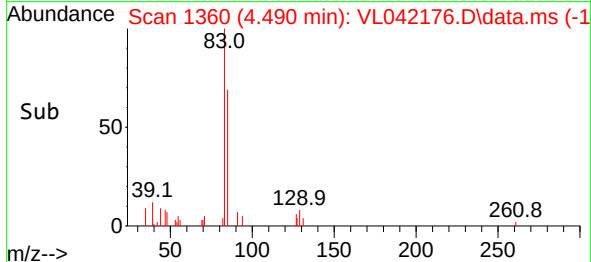
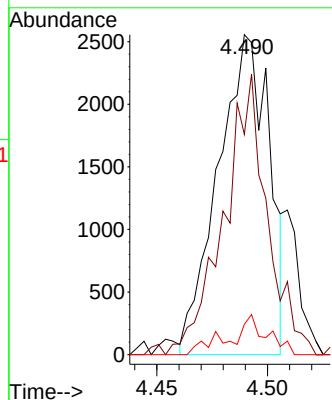
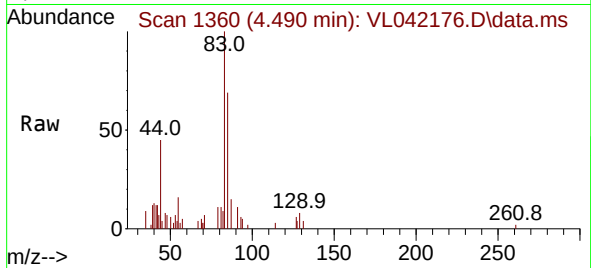




#42  
Bromodichloromethane  
Concen: 0.099 ppbv  
RT: 4.490 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

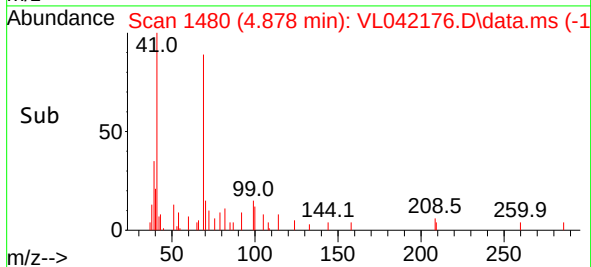
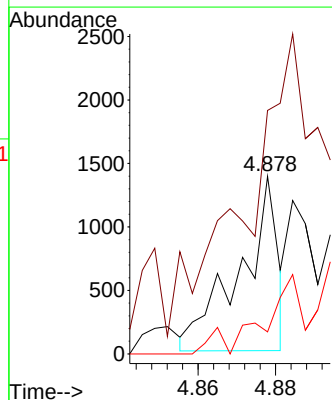
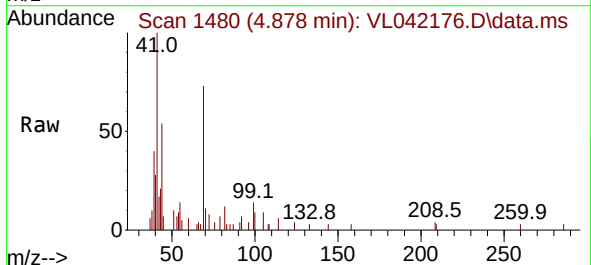
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

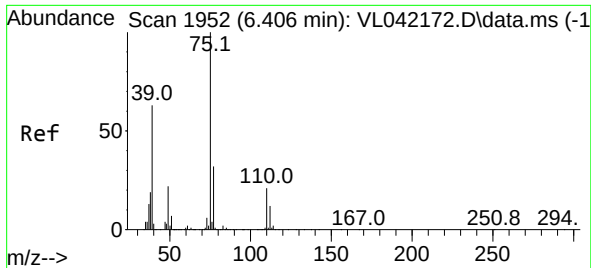
Tgt Ion: 83 Resp: 4103  
Ion Ratio Lower Upper  
83 100  
85 67.5 50.5 75.7  
127 9.8 5.9 8.9#



#43  
Methyl Methacrylate  
Concen: 0.042 ppbv  
RT: 4.878 min Scan# 1480  
Delta R.T. 0.006 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 69 Resp: 930  
Ion Ratio Lower Upper  
69 100  
41 0.0 123.8 185.6#  
100 0.0 28.4 42.6#

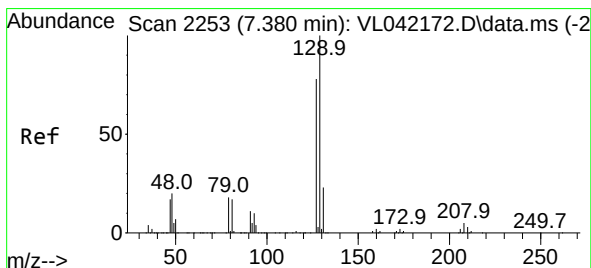
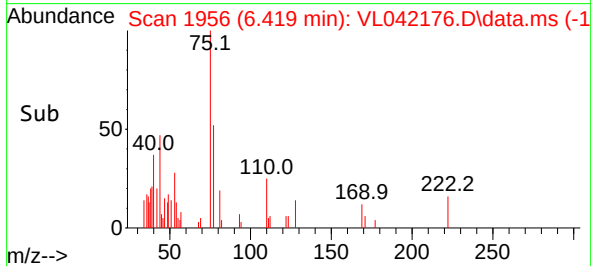
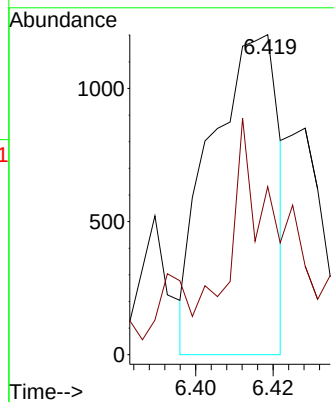
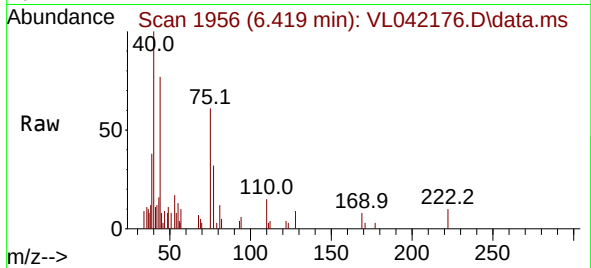




#45  
t-1,3-Dichloropropene  
Concen: 0.061 ppbv  
RT: 6.419 min Scan# 1956  
Delta R.T. 0.013 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

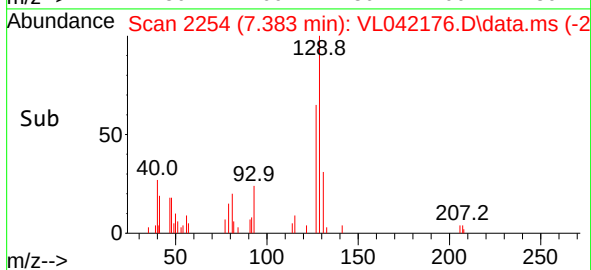
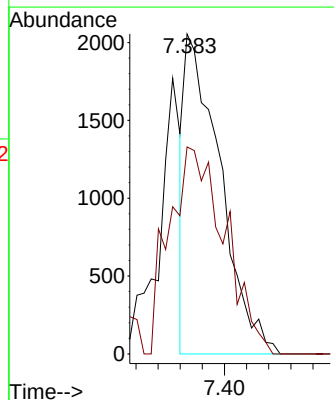
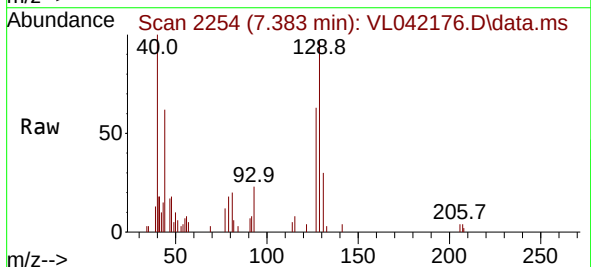
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

Tgt Ion: 75 Resp: 1449  
Ion Ratio Lower Upper  
75 100  
77 52.5 26.0 39.0#

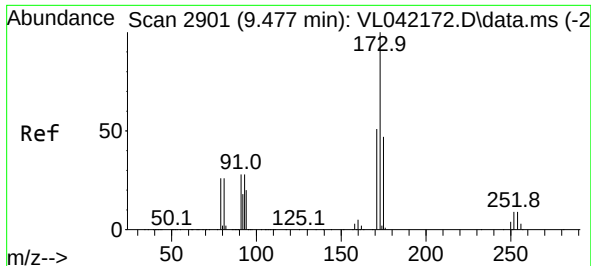


#48  
Dibromochloromethane  
Concen: 0.067 ppbv  
RT: 7.383 min Scan# 2254  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 129 Resp: 2284  
Ion Ratio Lower Upper  
129 100  
127 106.0 39.1 117.2







#49

Bromoform

Concen: 0.095 ppbv

RT: 9.480 min Scan# 2901

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

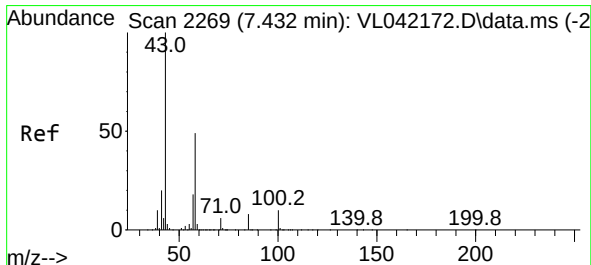
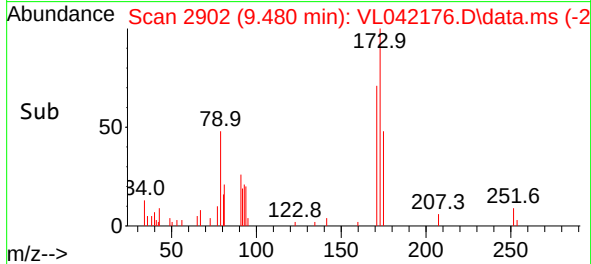
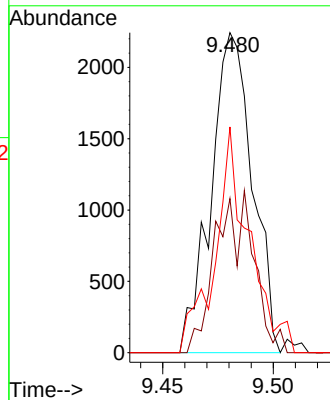
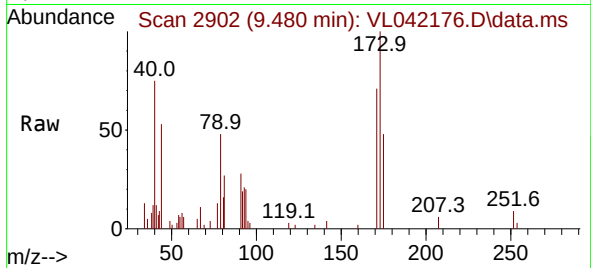
Tgt Ion:173 Resp: 2928

Ion Ratio Lower Upper

173 100

175 46.4 38.6 57.8

171 58.1 41.8 62.6



#51

2-Hexanone

Concen: 0.085 ppbv

RT: 7.448 min Scan# 2274

Delta R.T. 0.016 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

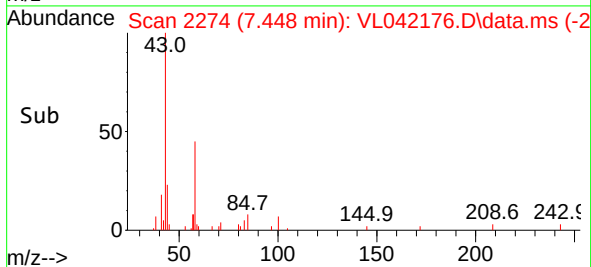
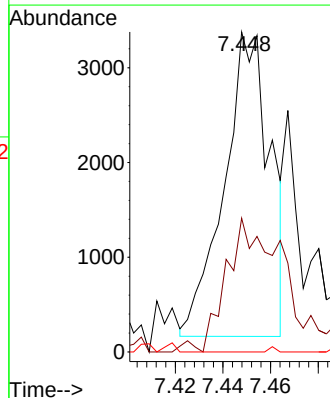
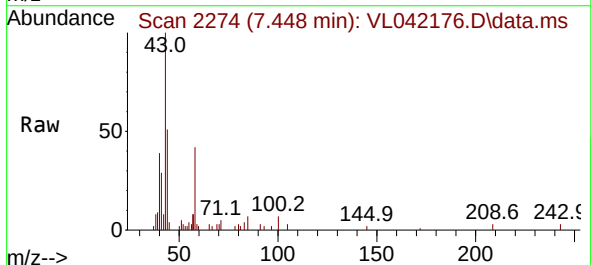
Tgt Ion: 43 Resp: 4284

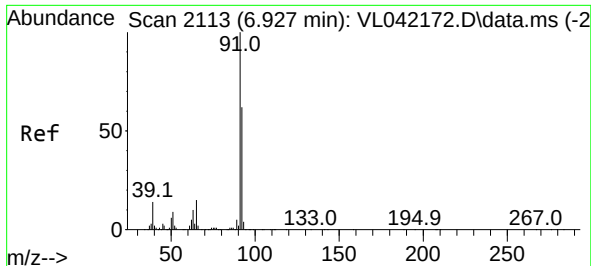
Ion Ratio Lower Upper

43 100

58 58.3 39.7 59.5

98 0.0 0.1 0.1#

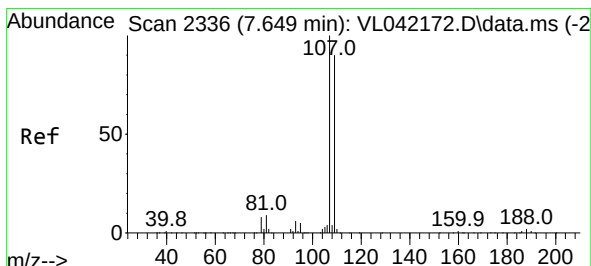
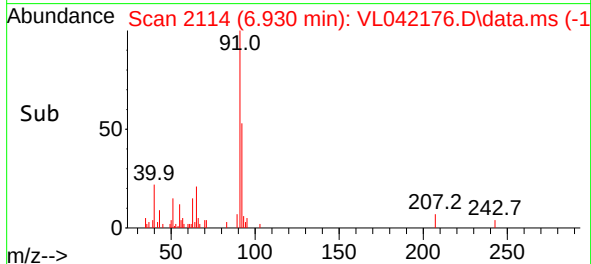
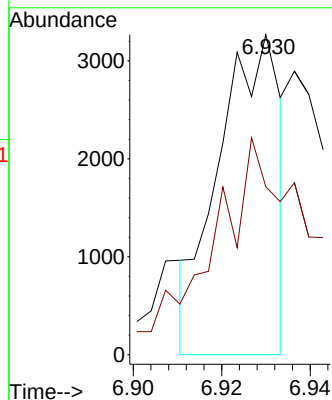
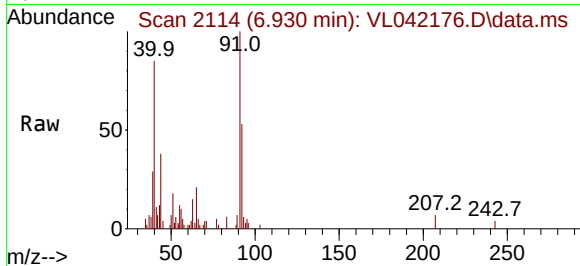




#53  
Toluene  
Concen: 0.051 ppbv  
RT: 6.930 min Scan# 2114  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

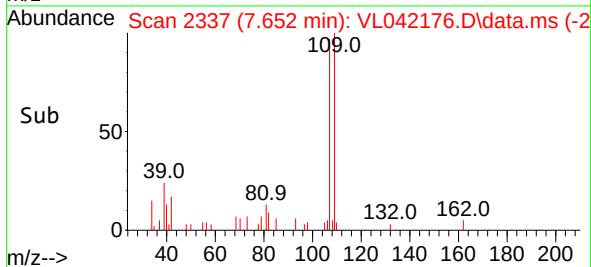
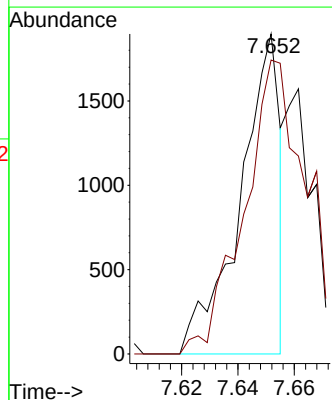
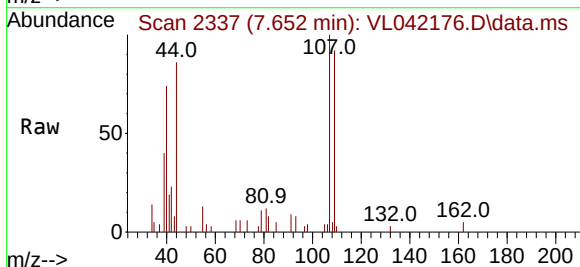
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

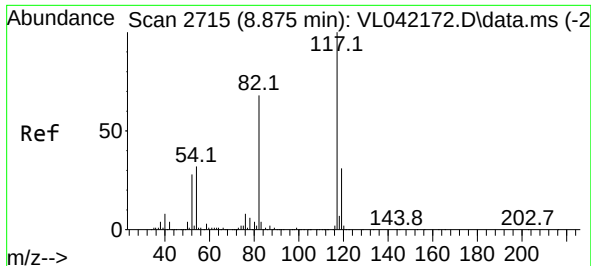
Tgt Ion: 91 Resp: 3144  
Ion Ratio Lower Upper  
91 100  
92 117.7 48.4 72.6#



#54  
1,2-Dibromoethane  
Concen: 0.066 ppbv  
RT: 7.652 min Scan# 2337  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 107 Resp: 1864  
Ion Ratio Lower Upper  
107 100  
109 91.8 72.2 108.4

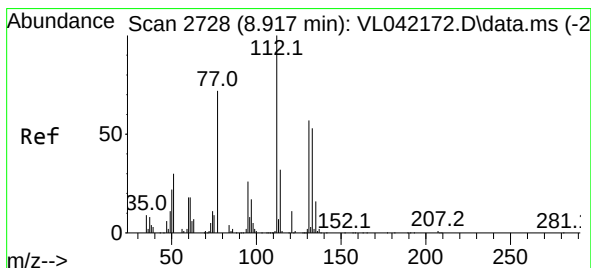
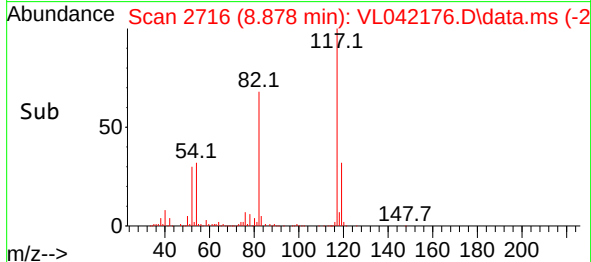
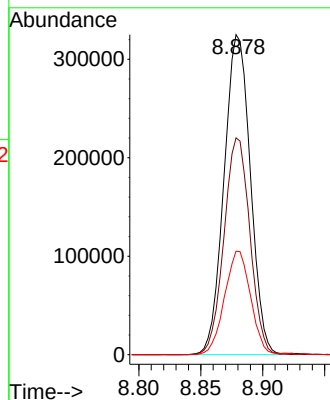
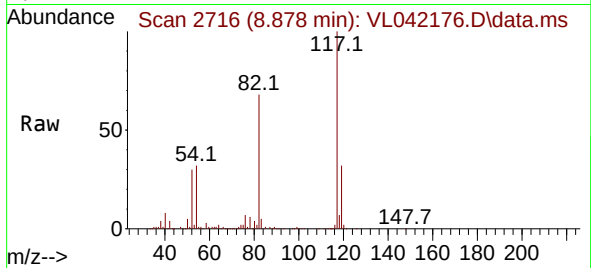




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

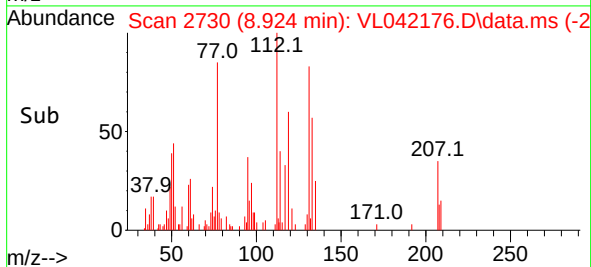
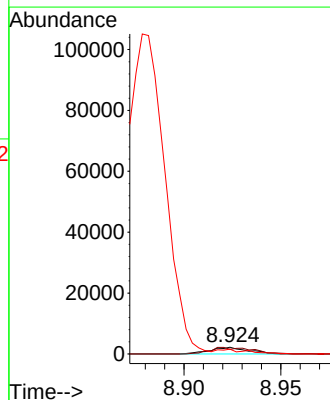
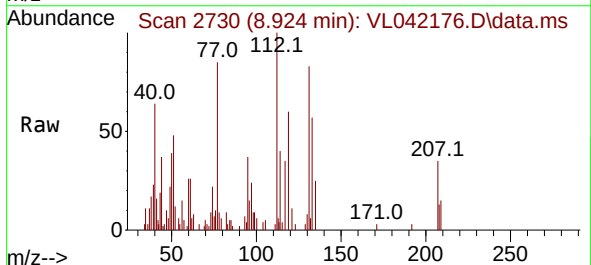
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

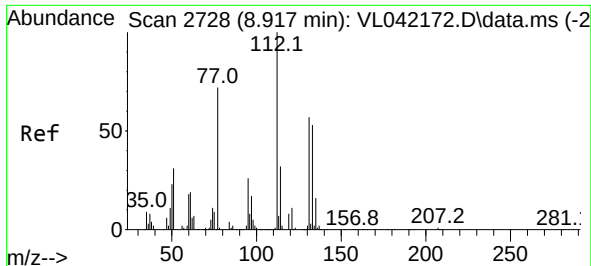
Tgt Ion:117 Resp: 481506  
Ion Ratio Lower Upper  
117 100  
82 66.7 55.8 83.6  
119 32.3 25.5 38.3



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.112 ppbv  
RT: 8.924 min Scan# 2730  
Delta R.T. 0.006 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion:131 Resp: 2963  
Ion Ratio Lower Upper  
131 100  
133 115.5 76.6 114.8#  
119 5254.7 49.8 74.6#

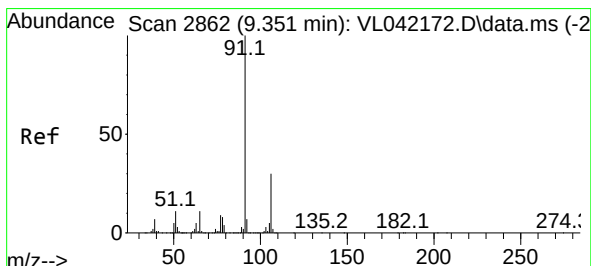
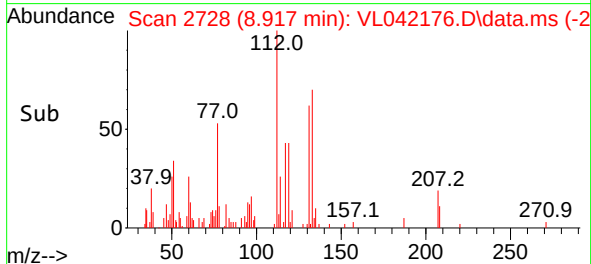
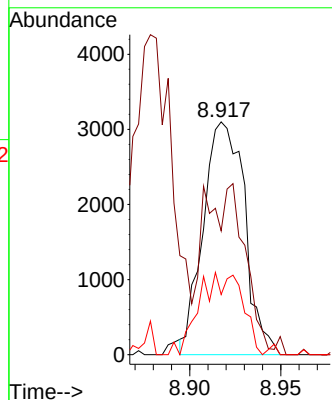
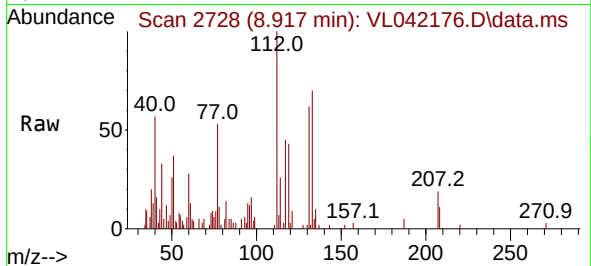




#57  
Chlorobenzene  
Concen: 0.107 ppbv  
RT: 8.917 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

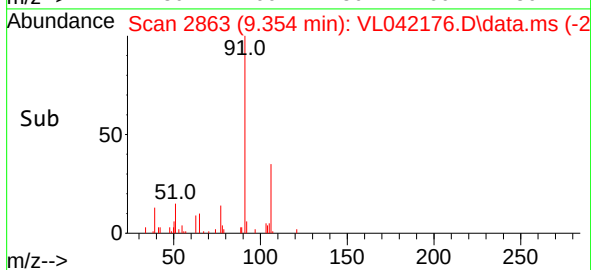
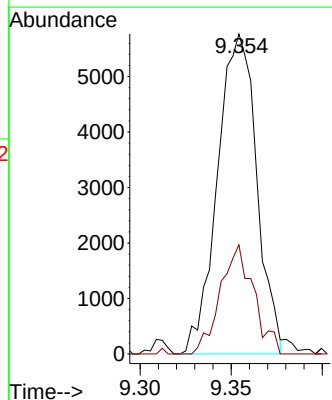
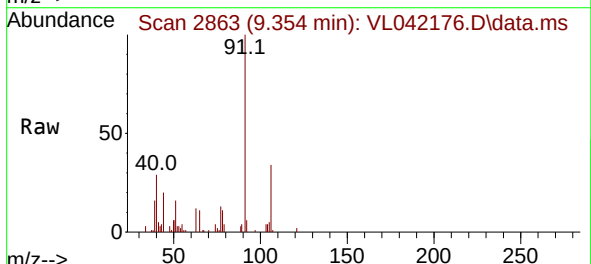
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

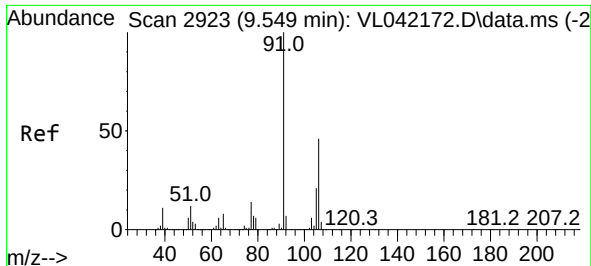
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 45.4  | 58.2  | 87.2# |
| 114     | 25.8  | 29.1  | 35.5# |



#58  
Ethyl Benzene  
Concen: 0.101 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 34.1  | 24.2  | 36.2  |

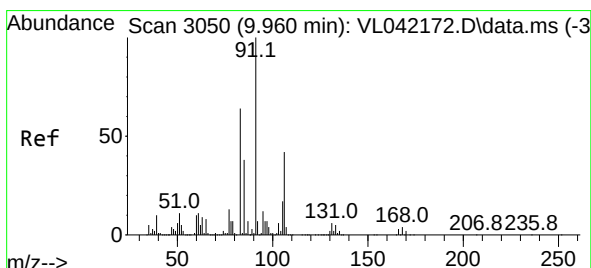
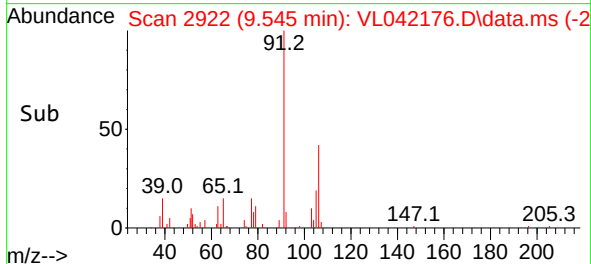
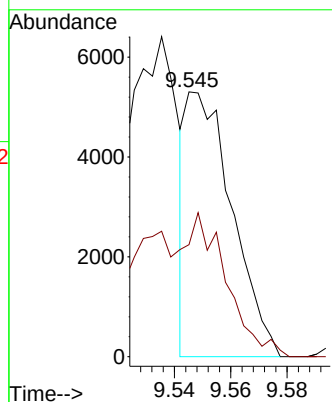
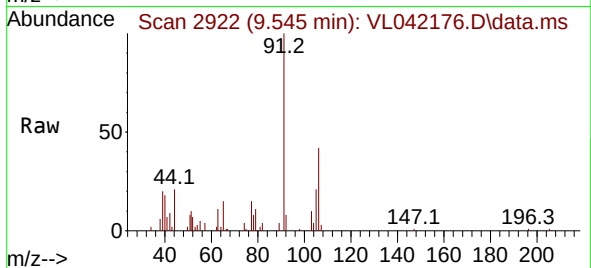




#59  
m/p-Xylene  
Concen: 0.088 ppbv  
RT: 9.545 min Scan# 2923  
Delta R.T. -0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

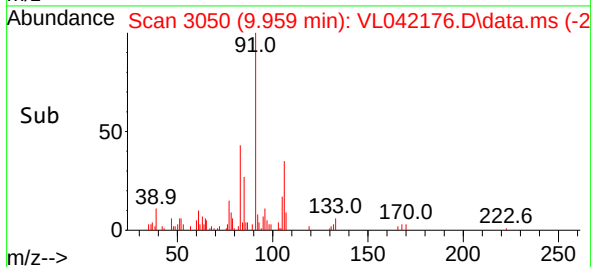
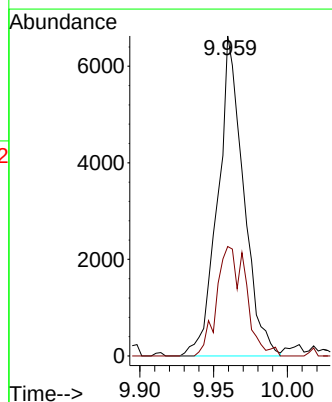
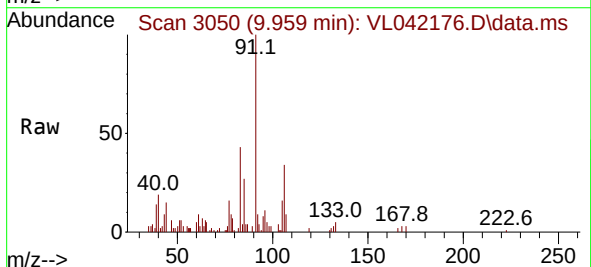
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

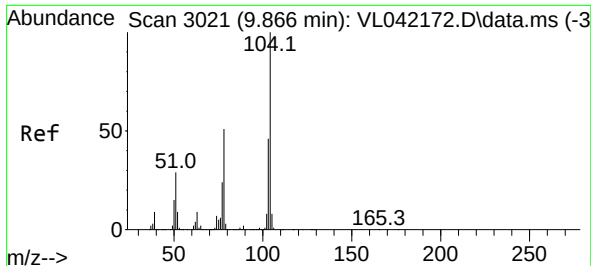
Tgt Ion: 91 Resp: 6005  
Ion Ratio Lower Upper  
91 100  
106 103.4 36.4 54.6#



#60  
o-Xylene  
Concen: 0.118 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 91 Resp: 8048  
Ion Ratio Lower Upper  
91 100  
106 39.0 20.8 62.5





#61

Styrene

Concen: 0.051 ppbv

RT: 9.872 min Scan# 3021

Delta R.T. 0.006 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

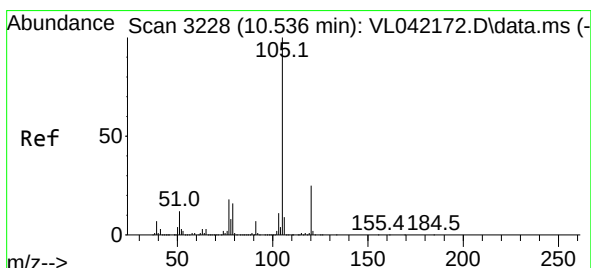
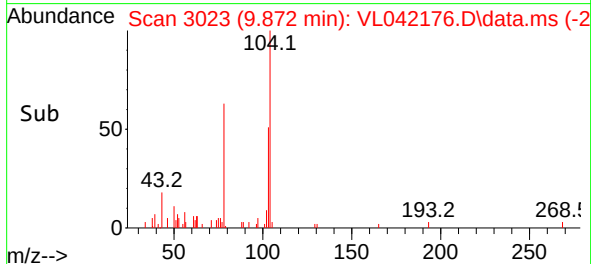
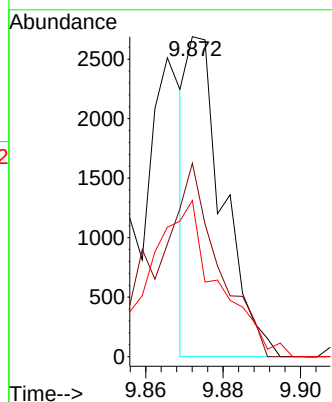
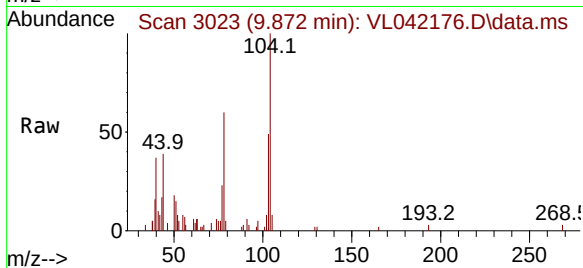
Tgt Ion:104 Resp: 1723

Ion Ratio Lower Upper

104 100

78 105.9 41.8 62.6#

103 95.0 37.0 55.4#



#62

Isopropylbenzene

Concen: 0.101 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. -0.000 min

Lab File: VL042176.D

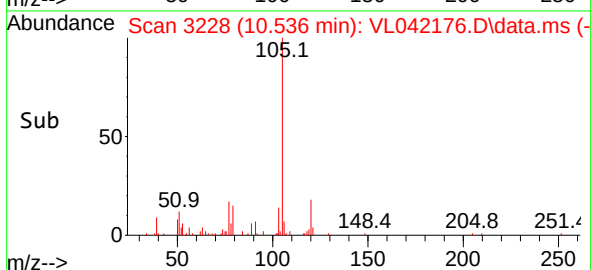
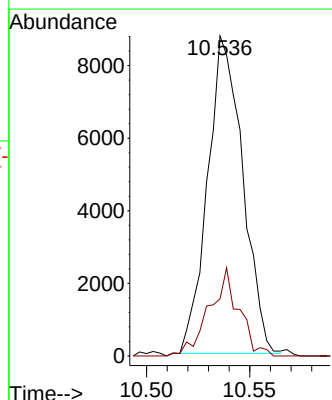
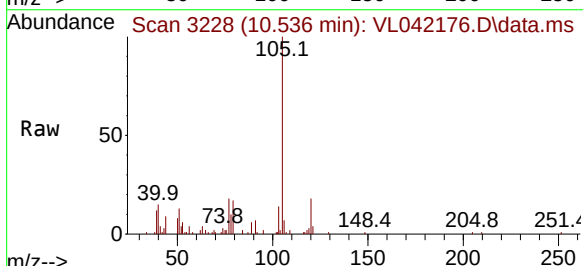
Acq: 27 Mar 2025 10:32

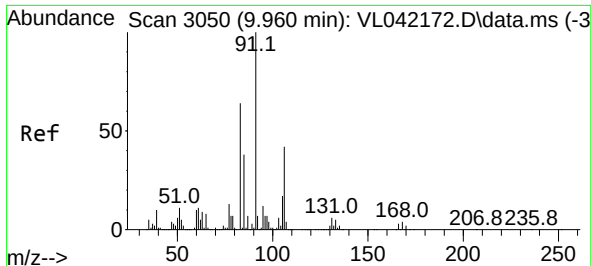
Tgt Ion:105 Resp: 10359

Ion Ratio Lower Upper

105 100

120 23.2 19.9 29.9

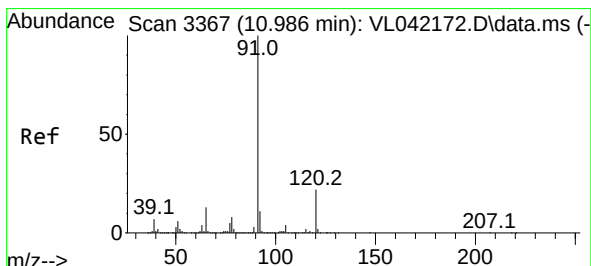
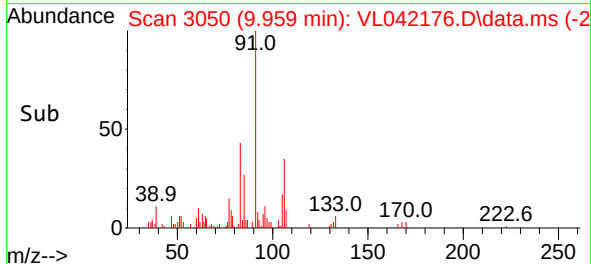
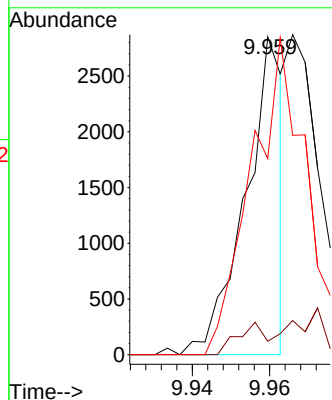
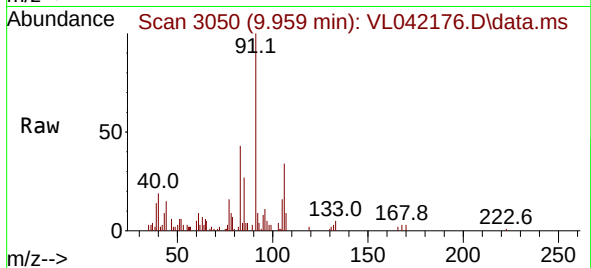




#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.046 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

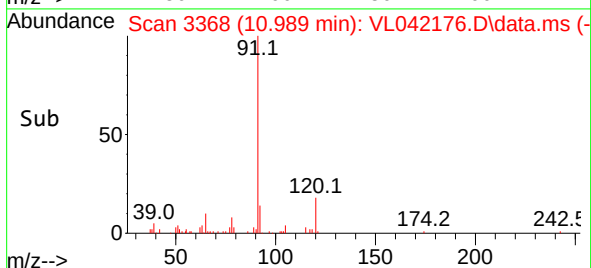
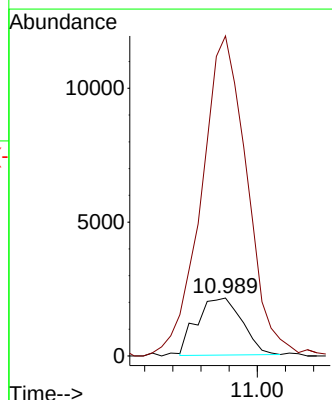
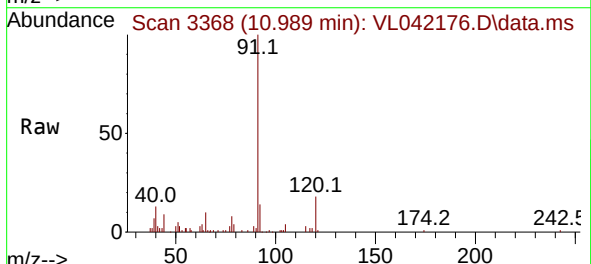
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

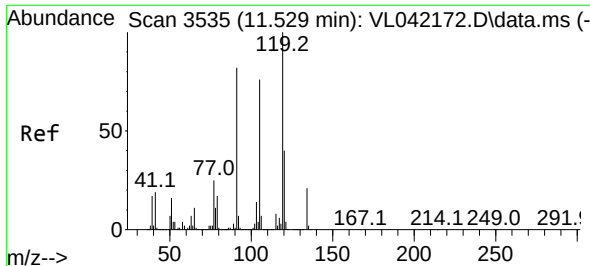
Tgt Ion: 83 Resp: 1910  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.8 14.4#  
85 0.0 32.5 97.5#



#64  
n-propylbenzene  
Concen: 0.090 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 120 Resp: 2375  
Ion Ratio Lower Upper  
120 100  
91 572.3 376.9 565.3#

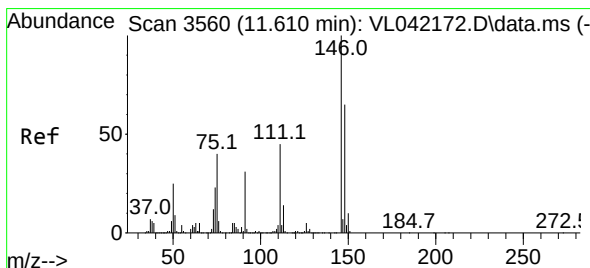
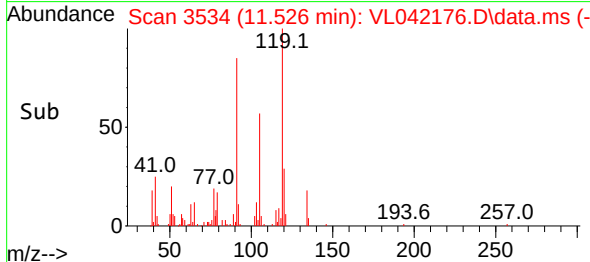
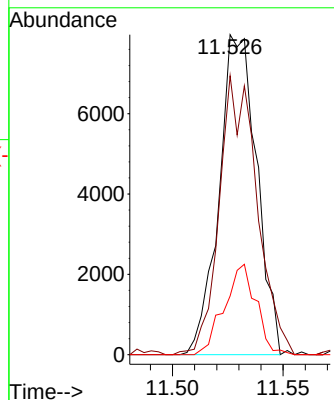
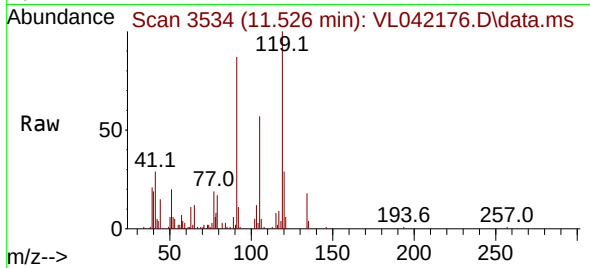




#65  
tert-Butylbenzene  
Concen: 0.099 ppbv  
RT: 11.526 min Scan# 3534  
Delta R.T. -0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

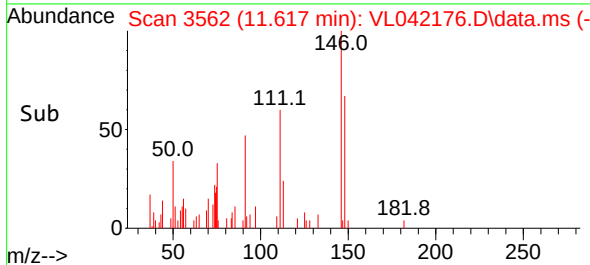
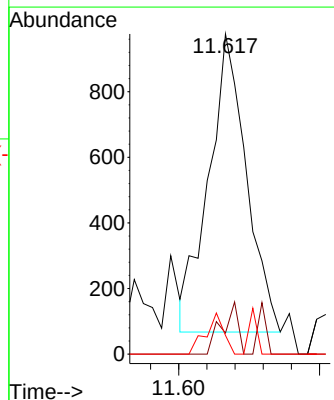
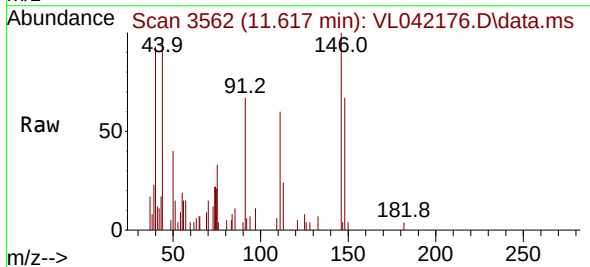
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

Tgt Ion:119 Resp: 9418  
Ion Ratio Lower Upper  
119 100  
91 87.8 66.0 99.0  
134 23.9 16.7 25.1

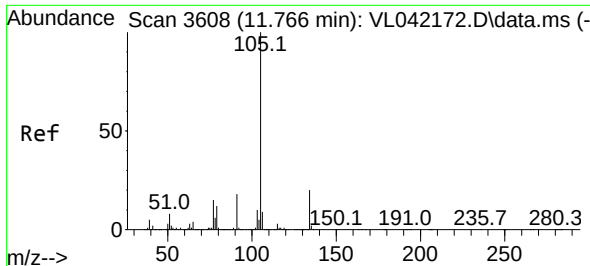


#66  
Benzyl Chloride  
Concen: 0.084 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. 0.006 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 91 Resp: 844  
Ion Ratio Lower Upper  
91 100  
126 11.0 13.8 20.6#  
128 10.0 4.5 6.7#



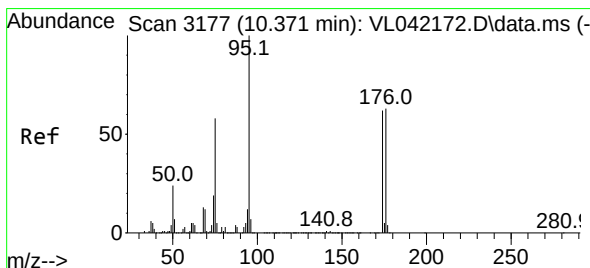
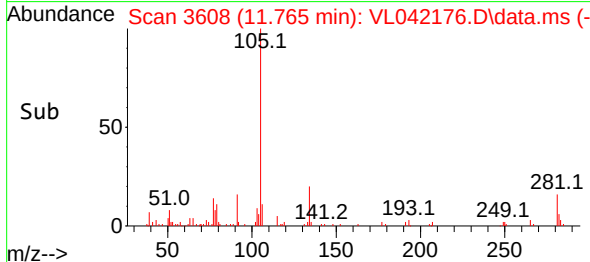
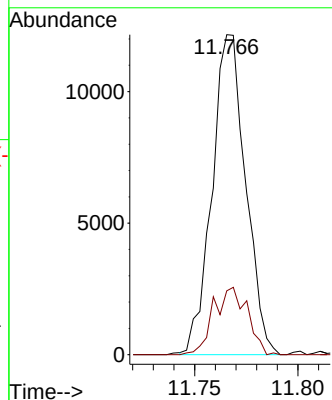
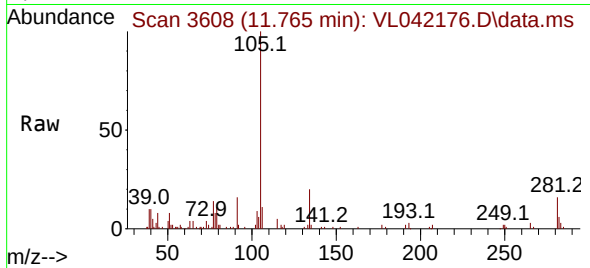




#67  
 sec-Butylbenzene  
 Concen: 0.105 ppbv  
 RT: 11.765 min Scan# 3608  
 Delta R.T. -0.000 min  
 Lab File: VL042176.D  
 Acq: 27 Mar 2025 10:32

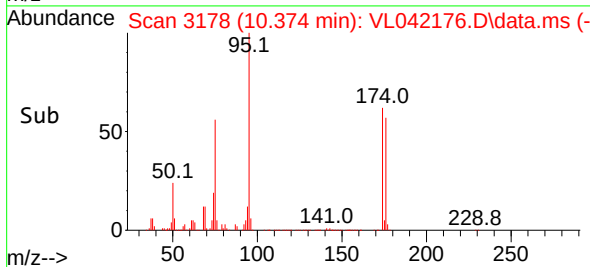
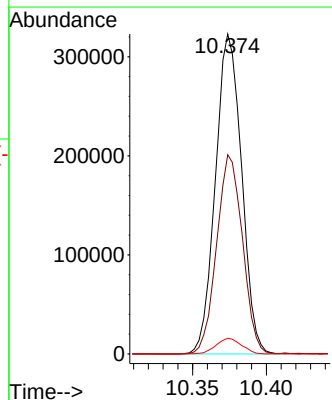
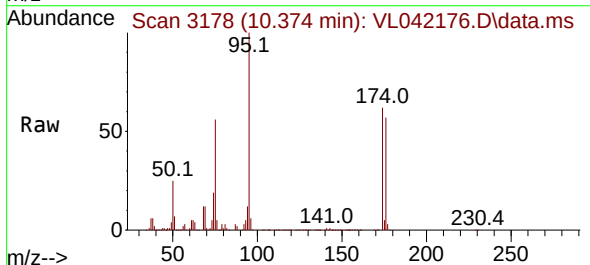
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

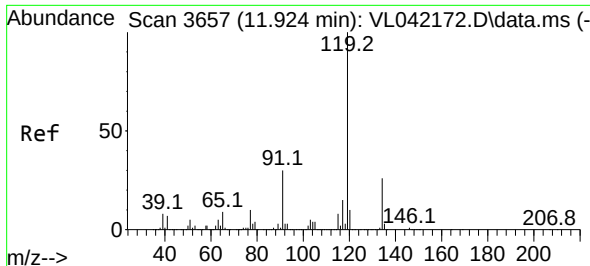
Tgt Ion:105 Resp: 13775  
 Ion Ratio Lower Upper  
 105 100  
 134 21.2 15.5 23.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.067 ppbv  
 RT: 10.374 min Scan# 3178  
 Delta R.T. 0.003 min  
 Lab File: VL042176.D  
 Acq: 27 Mar 2025 10:32

Tgt Ion: 95 Resp: 398069  
 Ion Ratio Lower Upper  
 95 100  
 174 61.5 50.6 76.0  
 175 4.8 3.8 5.6

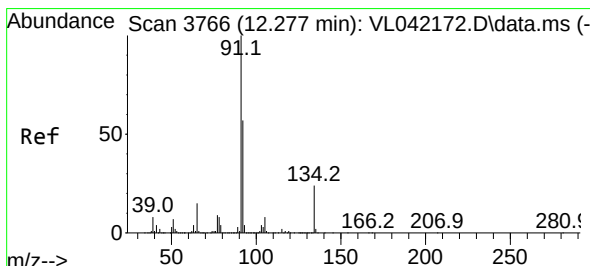
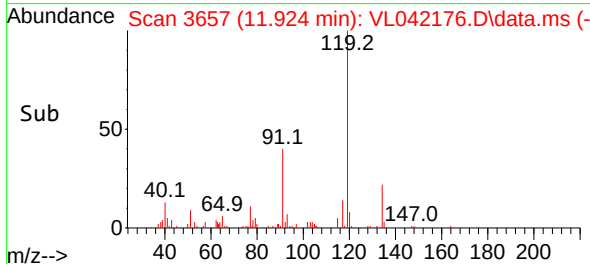
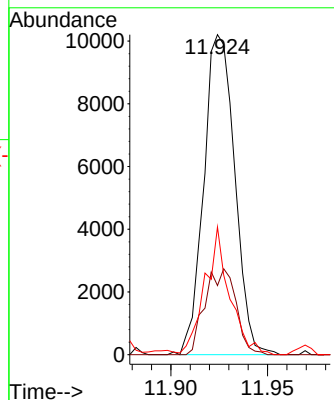
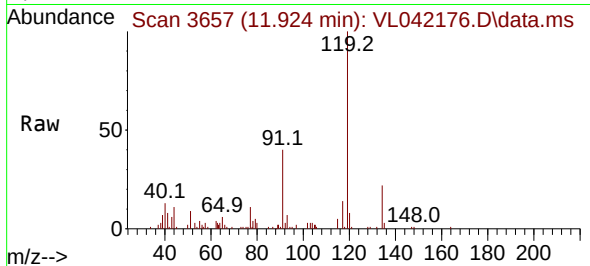




#69  
 p-Isopropyltoluene  
 Concen: 0.100 ppbv  
 RT: 11.924 min Scan# 30  
 Delta R.T. -0.000 min  
 Lab File: VL042176.D  
 Acq: 27 Mar 2025 10:32

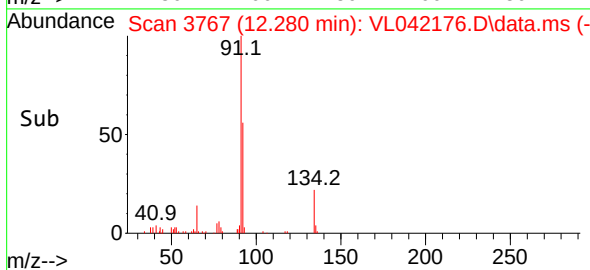
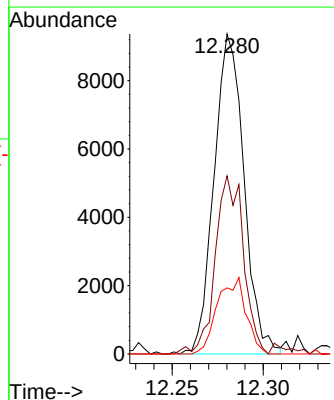
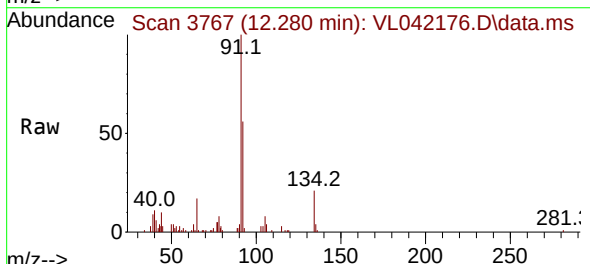
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

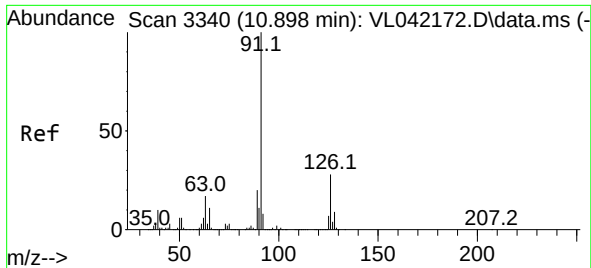
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 11366 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 26.8  | 20.4  | 30.6  |
| 91       | 30.7  | 23.7  | 35.5  |



#70  
 n-Butylbenzene  
 Concen: 0.092 ppbv  
 RT: 12.280 min Scan# 3767  
 Delta R.T. 0.003 min  
 Lab File: VL042176.D  
 Acq: 27 Mar 2025 10:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 10697 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 54.0  | 44.9  | 67.3  |
| 134      | 22.9  | 19.2  | 28.8  |

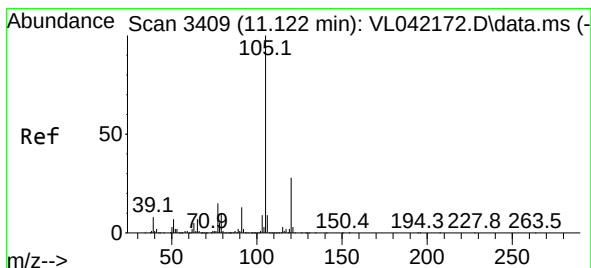
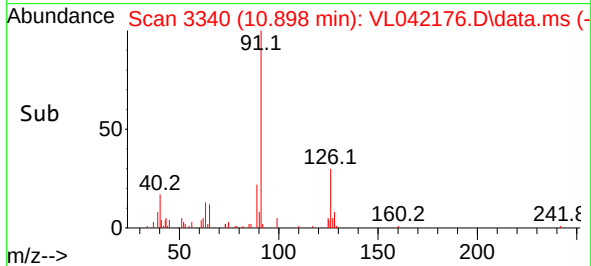
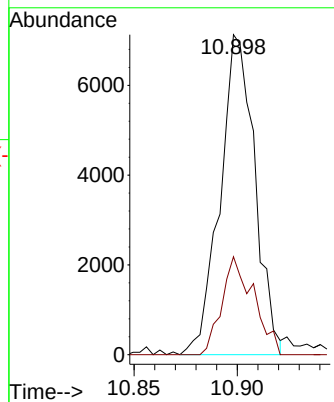
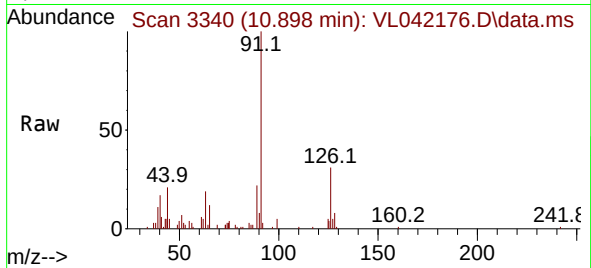




#71  
2-Chlorotoluene  
Concen: 0.105 ppbv  
RT: 10.898 min Scan# 310  
Delta R.T. -0.000 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

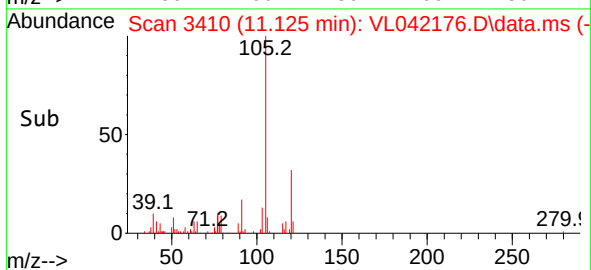
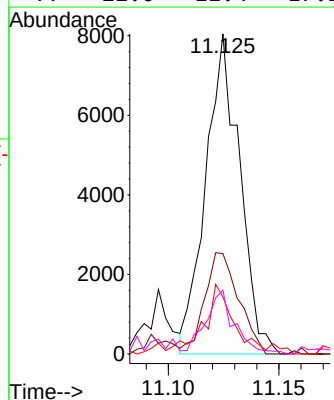
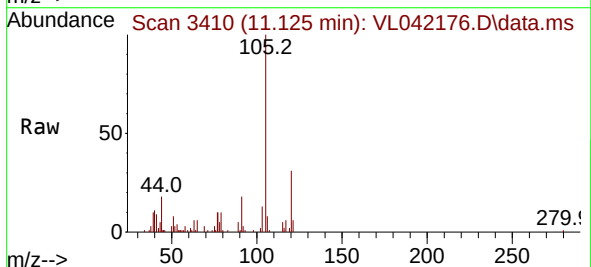
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

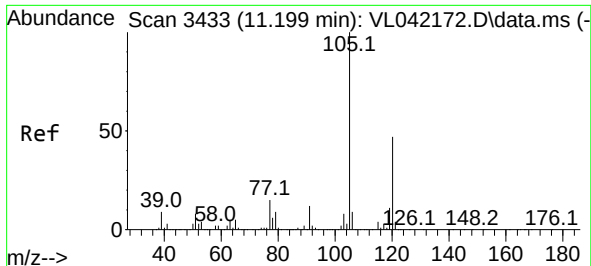
Tgt Ion: 91 Resp: 8347  
Ion Ratio Lower Upper  
91 100  
126 28.0 11.6 46.4



#72  
4-Ethyltoluene  
Concen: 0.101 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

Tgt Ion: 105 Resp: 8579  
Ion Ratio Lower Upper  
105 100  
120 36.1 23.4 35.0#  
91 21.4 10.3 15.5#  
77 22.0 11.4 17.2#

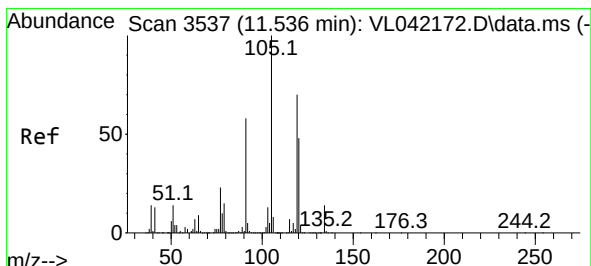
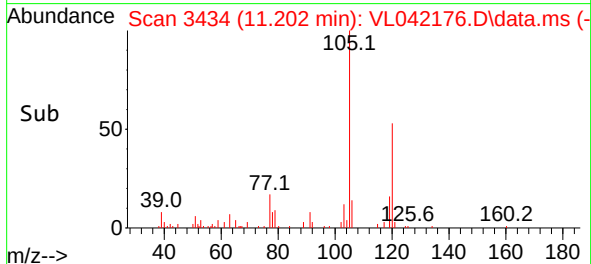
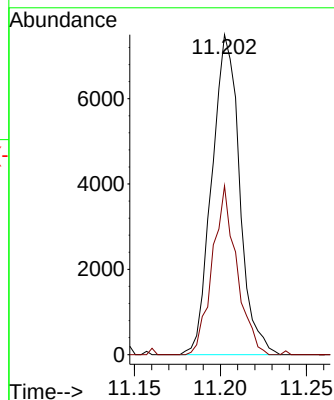
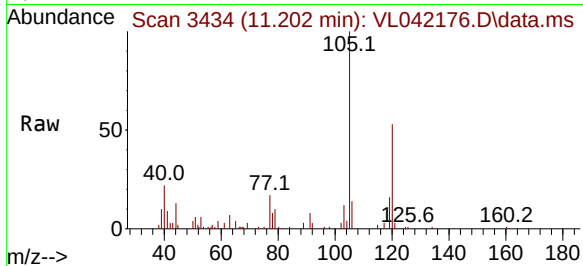




#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.113 ppbv  
 RT: 11.202 min Scan# 3434  
 Delta R.T. 0.003 min  
 Lab File: VL042176.D  
 Acq: 27 Mar 2025 10:32

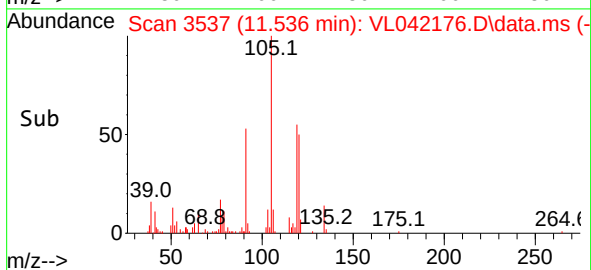
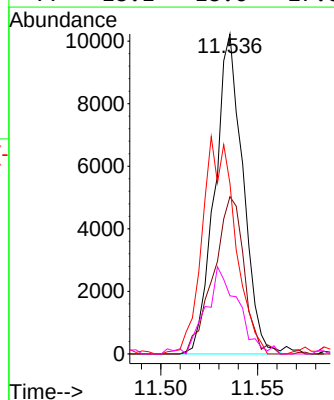
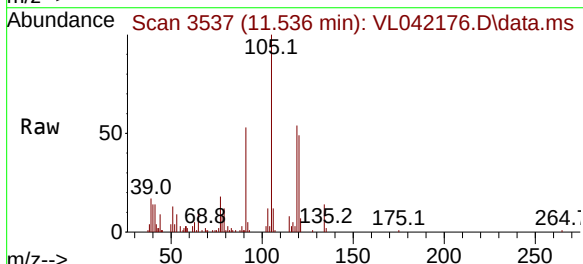
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

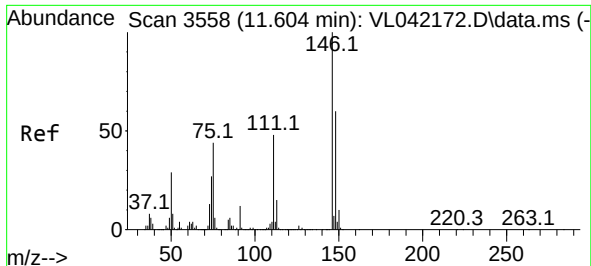
Tgt Ion:105 Resp: 8407  
 Ion Ratio Lower Upper  
 105 100  
 120 52.7 37.4 56.0



#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.121 ppbv  
 RT: 11.536 min Scan# 3537  
 Delta R.T. -0.000 min  
 Lab File: VL042176.D  
 Acq: 27 Mar 2025 10:32

Tgt Ion:105 Resp: 10341  
 Ion Ratio Lower Upper  
 105 100  
 120 49.2 38.6 58.0  
 91 53.2 46.2 69.2  
 77 18.1 18.6 27.8#

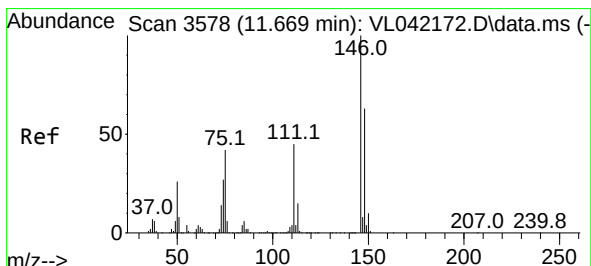
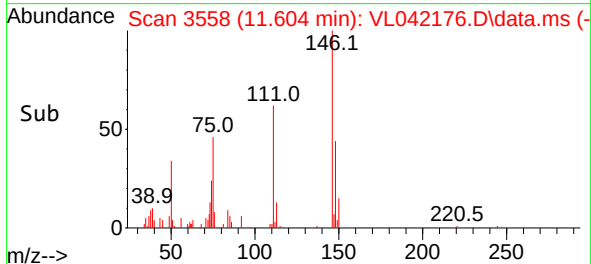
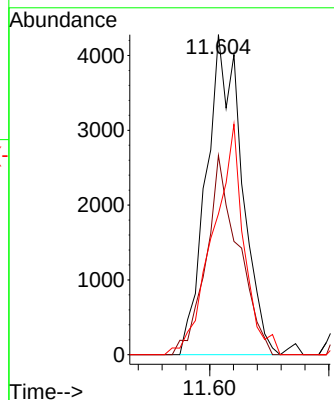
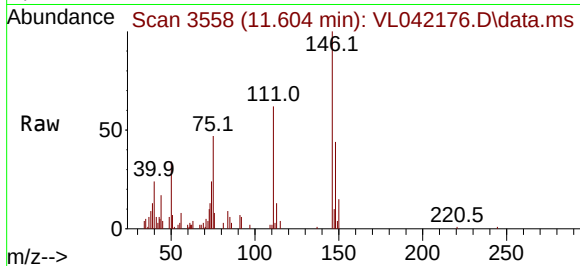




#75  
1,3-Dichlorobenzene  
Concen: 0.094 ppbv  
RT: 11.604 min Scan# 3558  
Delta R.T. -0.000 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

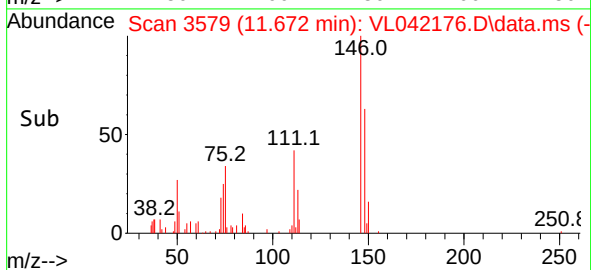
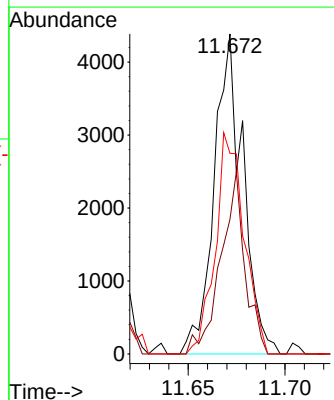
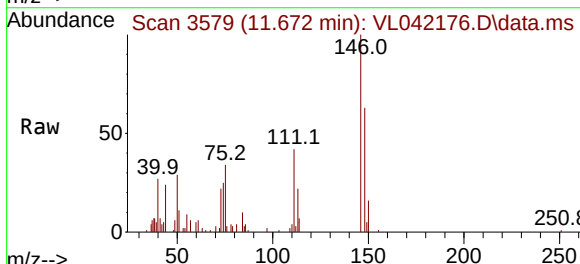
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

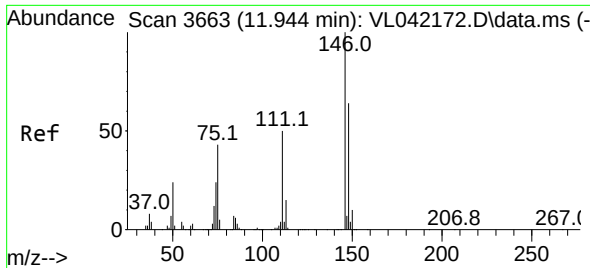
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 4426  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 56.3  | 23.8  | 71.2  |
| 148      | 62.9  | 31.9  | 95.9  |



#76  
1,4-Dichlorobenzene  
Concen: 0.097 ppbv  
RT: 11.672 min Scan# 3579  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 4552  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 47.6  | 23.0  | 69.0  |
| 148      | 68.6  | 31.9  | 95.7  |

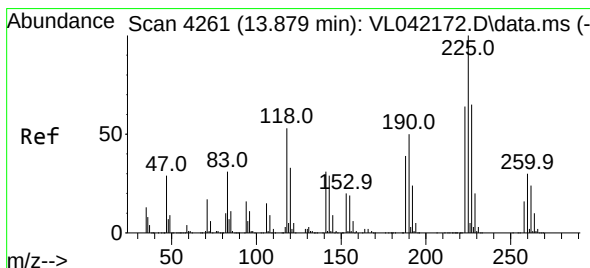
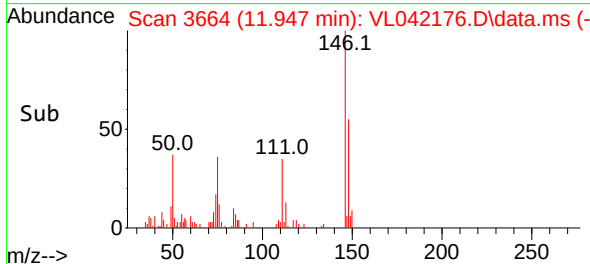
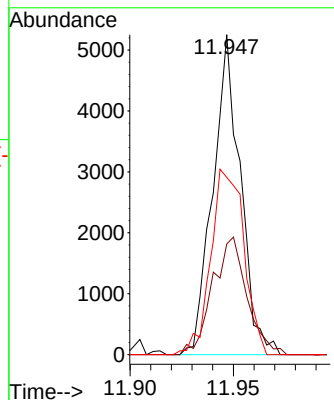
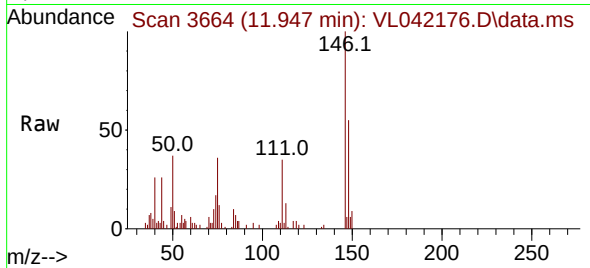




#77  
1,2-Dichlorobenzene  
Concen: 0.106 ppbv  
RT: 11.947 min Scan# 3663  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

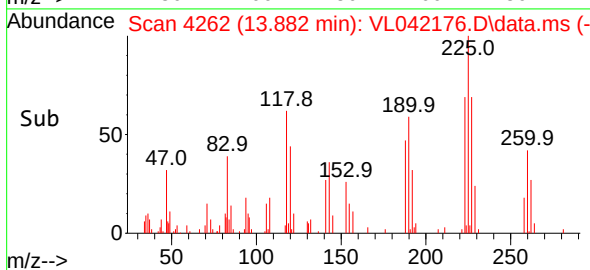
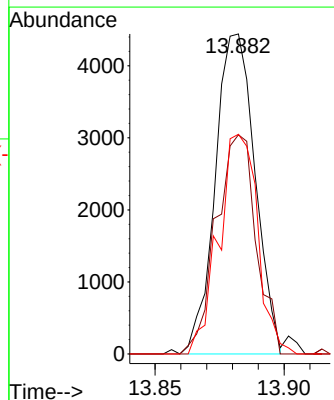
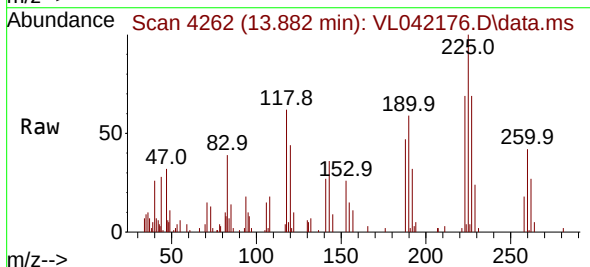
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

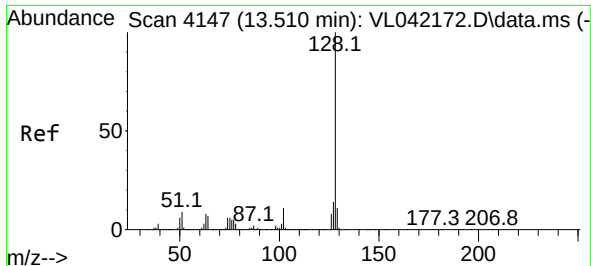
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 4867  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 45.8  | 24.8  | 74.3  |
| 148      | 69.7  | 31.6  | 94.8  |



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.102 ppbv  
RT: 13.882 min Scan# 4262  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 4755  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 68.9  | 50.6  | 76.0  |
| 227      | 67.4  | 51.2  | 76.8  |

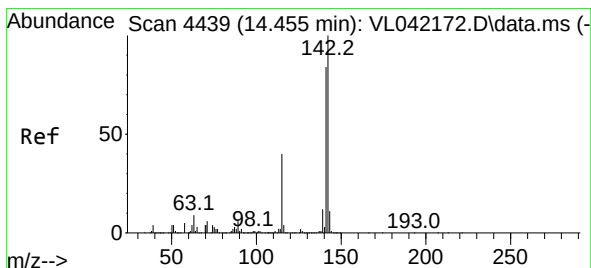
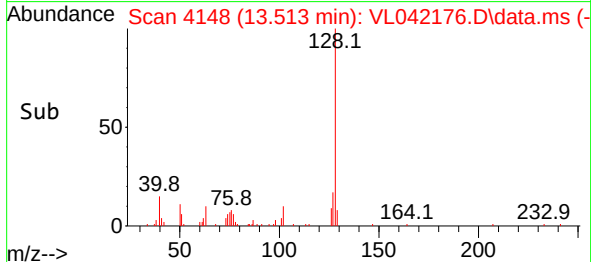
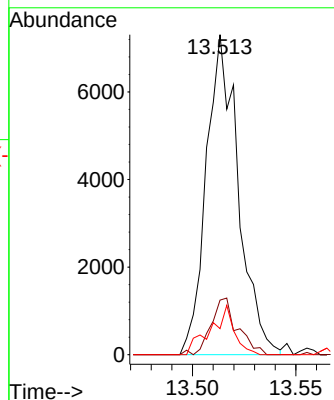
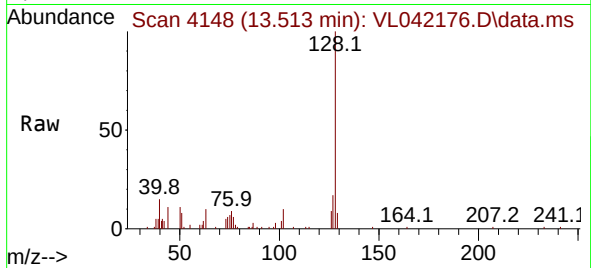




#79  
Naphthalene  
Concen: 0.084 ppbv  
RT: 13.513 min Scan# 4147  
Delta R.T. 0.003 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

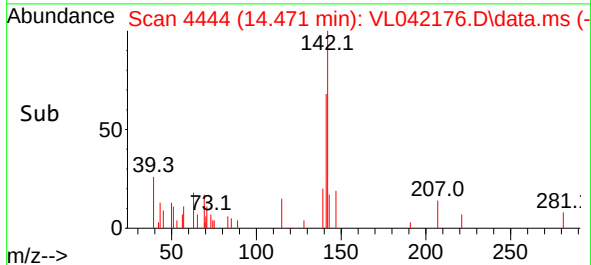
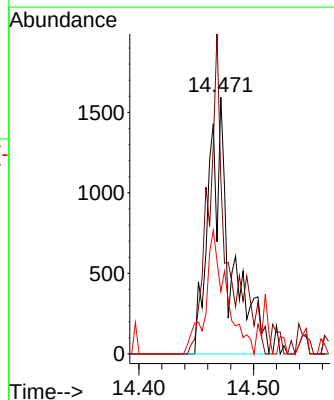
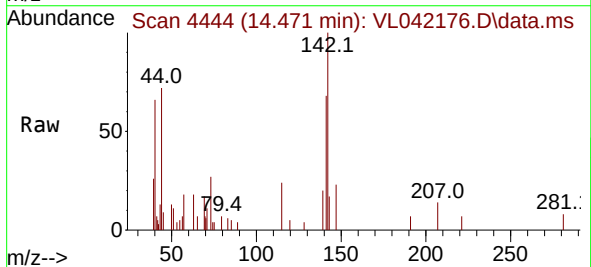
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

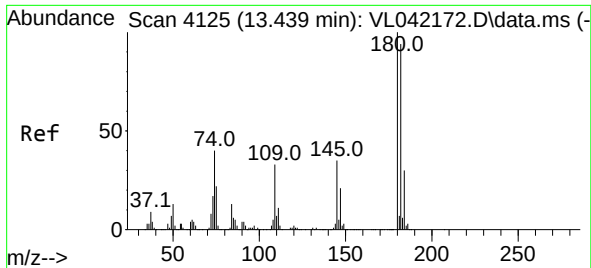
Tgt Ion:128 Resp: 7882  
Ion Ratio Lower Upper  
128 100  
127 17.1 10.8 16.2#  
129 8.1 9.0 13.4#



#80  
Naphthalene,2-methyl-  
Concen: 0.048 ppbv  
RT: 14.471 min Scan# 4444  
Delta R.T. 0.016 min  
Lab File: VL042176.D  
Acq: 27 Mar 2025 10:32

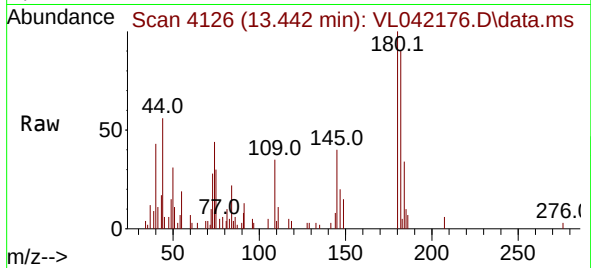
Tgt Ion:142 Resp: 2174  
Ion Ratio Lower Upper  
142 100  
141 109.3 66.3 99.5#  
115 44.3 31.6 47.4



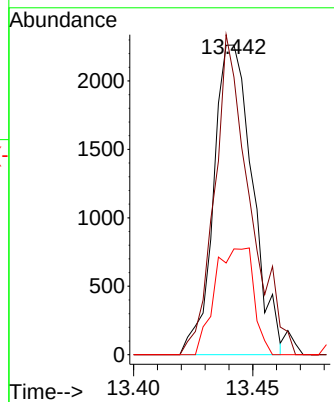
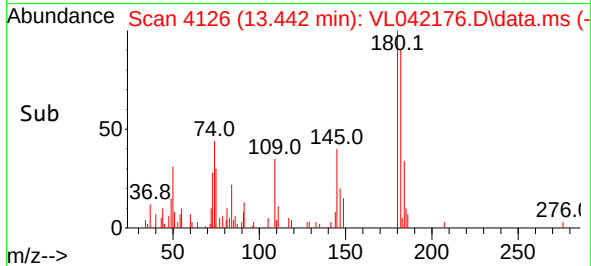


#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.059 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. 0.003 min  
 Lab File: VL042176.D  
 Acq: 27 Mar 2025 10:32

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.1



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 2557  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 93.6  | 75.1  | 112.7 |
| 184      | 34.5  | 24.4  | 36.6  |





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

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 26 06:05:16 2022  
 QLast Update : Fri Mar 28 01:31:23 2025  
 Response via : Initial Calibration

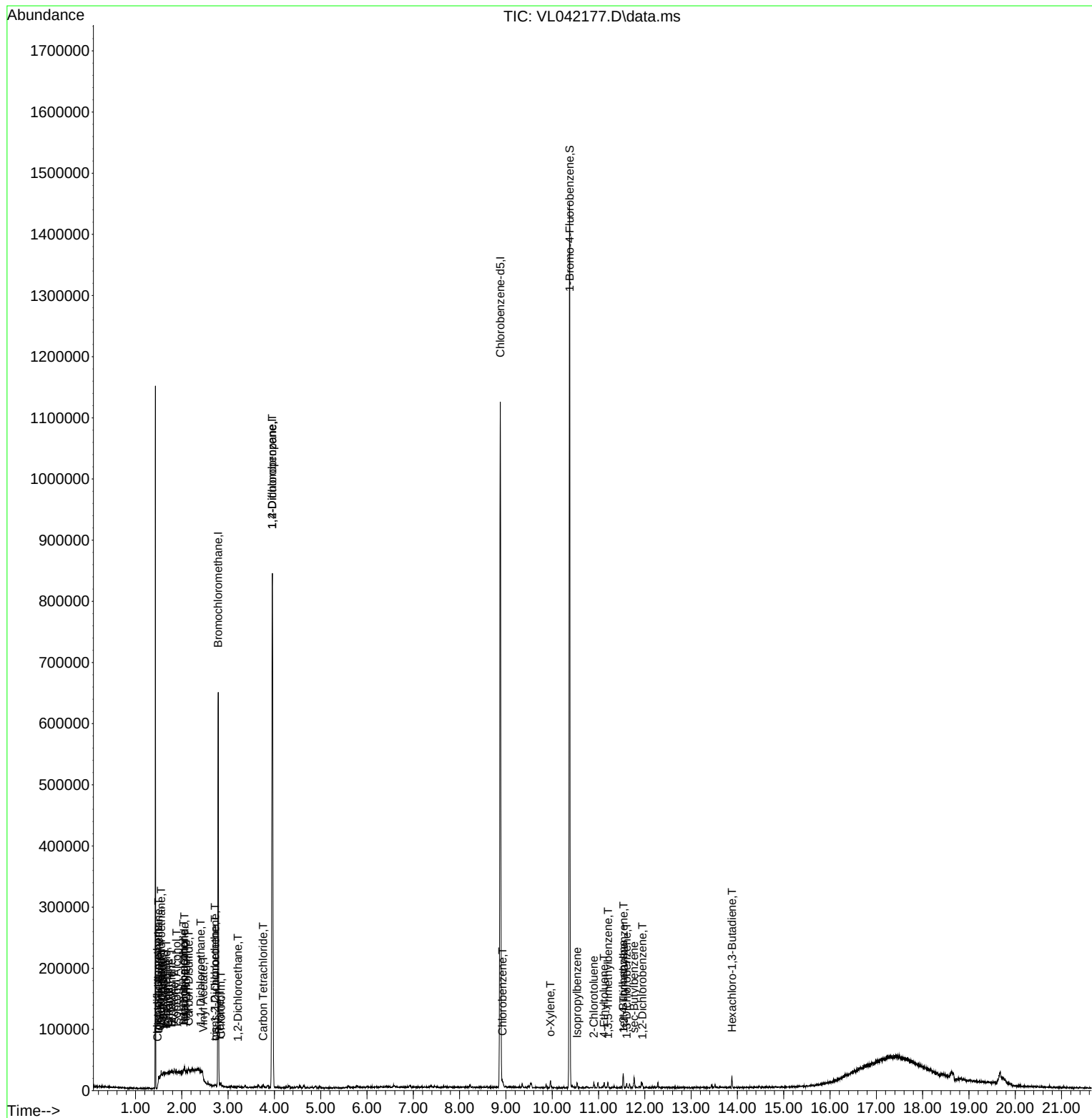
| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 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 |          |
| 2) Dichlorodifluoromethane   | 1.496  | 85    | 914      | 0.035    | ppbv # | 73       |
| 3) Chlorodifluoromethane     | 1.476  | 51    | 1354     | 0.050    | ppbv # | 1        |
| 4) Chloromethane             | 1.531  | 50    | 675      | 0.063    | ppbv # | 86       |
| 5) Vinyl Chloride            | 1.580  | 62    | 534      | 0.049    | ppbv # | 79       |
| 6) Bromomethane              | 1.670  | 94    | 483      | 0.099    | ppbv # | 9        |
| 7) Chloroethane              | 1.703  | 64    | 361      | 0.084    | ppbv # | 45       |
| 8) Dichlorotetrafluoroethane | 1.554  | 85    | 815      | 0.036    | ppbv # | 79       |
| 13) Ethanol                  | 1.719  | 45    | 312      | 0.329    | ppbv # | 27       |
| 14) Bromoethene              | 1.780  | 108   | 482      | 0.060    | ppbv # | 31       |
| 15) Acetone                  | 1.835  | 43    | 3574     | 0.144    | ppbv # | 63       |
| 16) 1,3-Butadiene            | 1.606  | 39    | 1101     | 0.098    | ppbv # | 57       |
| 17) tert-Butyl alcohol       | 2.043  | 59    | 1215     | 0.039    | ppbv # | 1        |
| 18) 1,1-Dichloroethene       | 2.036  | 96    | 560      | 0.057    | ppbv # | 38       |
| 19) Isopropyl Alcohol        | 1.887  | 45    | 1071     | 0.076    | ppbv # | 30       |
| 20) Methylene Chloride       | 2.059  | 84    | 1823     | 0.197    | ppbv # | 91       |
| 21) Allyl Chloride           | 2.091  | 41    | 1518     | 0.086    | ppbv # | 29       |
| 22) trans-1,2-Dichloroethene | 2.719  | 96    | 586      | 0.051    | ppbv   | 96       |
| 23) Vinyl Acetate            | 2.463  | 43    | 689      | 0.067    | ppbv # | 1        |
| 24) 1,1-Dichloroethane       | 2.412  | 63    | 961      | 0.046    | ppbv # | 72       |
| 26) Hexane                   | 2.819  | 57    | 1040     | 0.042    | ppbv # | 46       |
| 27) Carbon Disulfide         | 2.149  | 76    | 1061     | 0.040    | ppbv # | 1        |
| 29) Chloroform               | 2.848  | 83    | 1619     | 0.044    | ppbv   | 92       |
| 31) cis-1,2-Dichloroethene   | 2.719  | 61    | 846      | 0.033    | ppbv   | 92       |
| 35) Carbon Tetrachloride     | 3.758  | 117   | 1520     | 0.039    | ppbv # | 42       |
| 37) 1,2-Dichloroethane       | 3.214  | 62    | 1029     | 0.035    | ppbv # | 88       |
| 39) 1,2-Dichloropropane      | 3.955  | 63    | 136518   | 7.372    | ppbv # | 23       |
| 57) Chlorobenzene            | 8.924  | 112   | 1382     | 0.031    | ppbv # | 61       |
| 60) o-Xylene                 | 9.959  | 91    | 2844     | 0.042    | ppbv   | 96       |
| 62) Isopropylbenzene         | 10.535 | 105   | 3380     | 0.033    | ppbv   | 95       |
| 65) tert-Butylbenzene        | 11.529 | 119   | 3543     | 0.038    | ppbv   | 98       |
| 67) sec-Butylbenzene         | 11.765 | 105   | 4317     | 0.033    | ppbv   | 92       |
| 71) 2-Chlorotoluene          | 10.898 | 91    | 2666     | 0.034    | ppbv   | 97       |
| 72) 4-Ethyltoluene           | 11.121 | 105   | 3017     | 0.036    | ppbv # | 64       |
| 73) 1,3,5-Trimethylbenzene   | 11.205 | 105   | 3101     | 0.042    | ppbv   | 94       |
| 74) 1,2,4-Trimethylbenzene   | 11.539 | 105   | 5313     | 0.063    | ppbv # | 73       |
| 75) 1,3-Dichlorobenzene      | 11.607 | 146   | 1577     | 0.034    | ppbv   | 90       |
| 77) 1,2-Dichlorobenzene      | 11.947 | 146   | 1591     | 0.035    | ppbv   | 92       |
| 78) Hexachloro-1,3-Butadiene | 13.882 | 225   | 1821     | 0.040    | ppbv   | 94       |

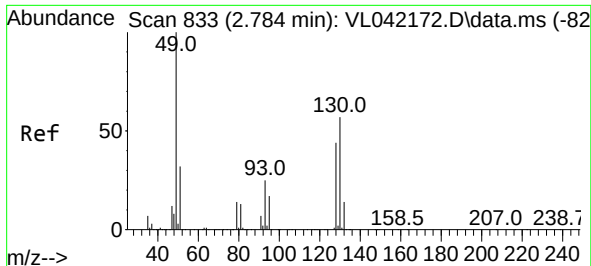
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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 26 06:05:16 2022  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration

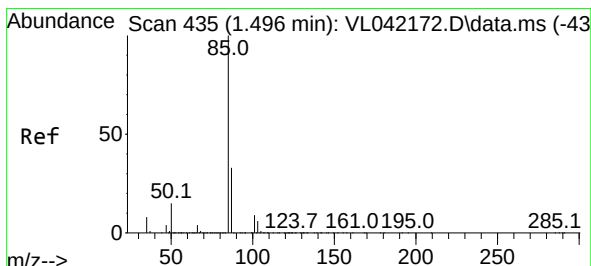
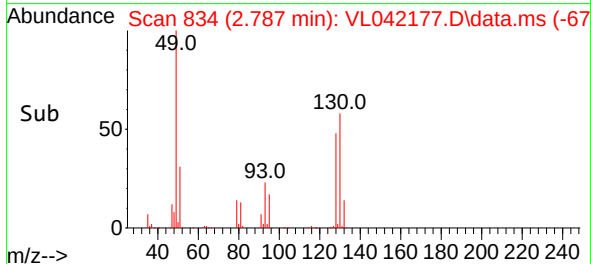
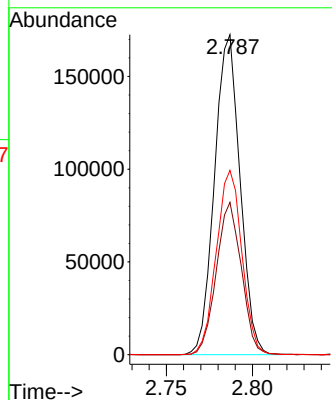
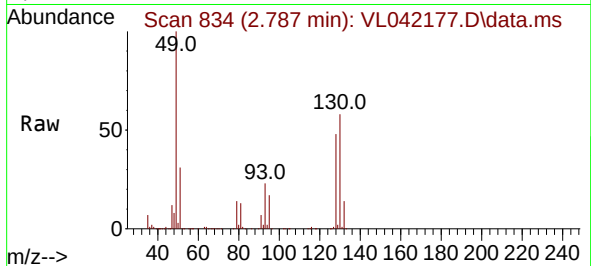




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

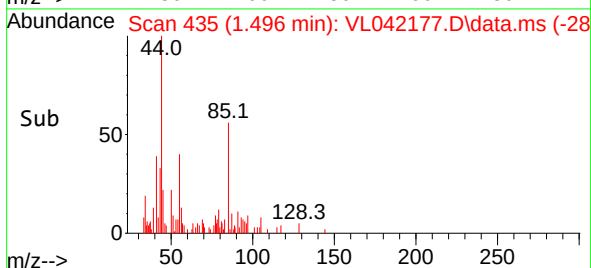
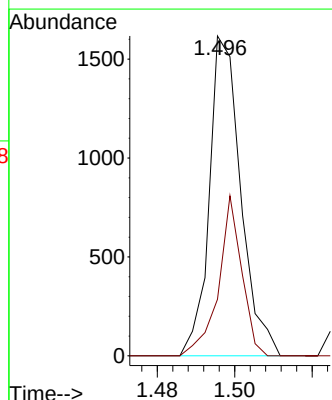
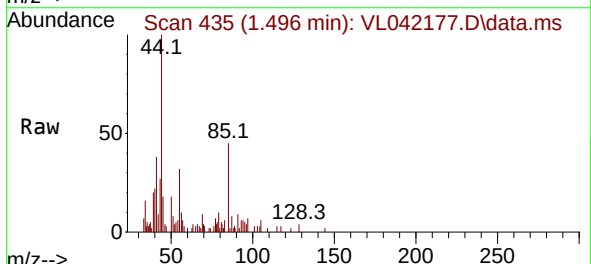
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

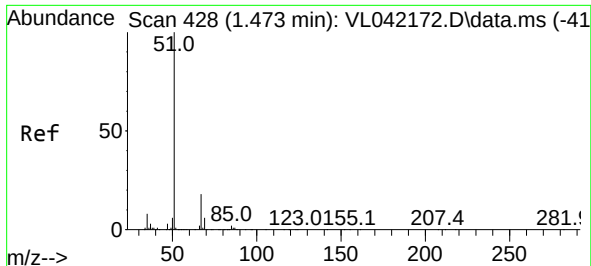
Tgt Ion: 49 Resp: 178058  
Ion Ratio Lower Upper  
49 100  
128 46.8 22.9 68.5  
130 57.9 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 0.035 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

Tgt Ion: 85 Resp: 914  
Ion Ratio Lower Upper  
85 100  
87 17.7 26.1 39.1#

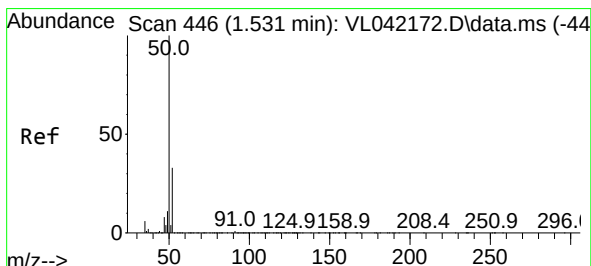
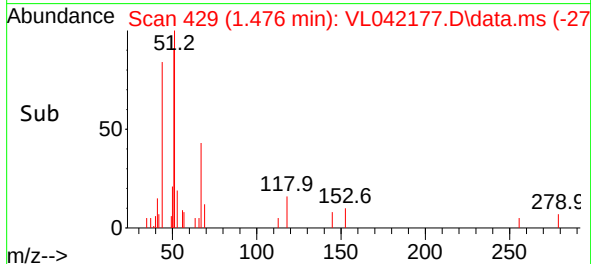
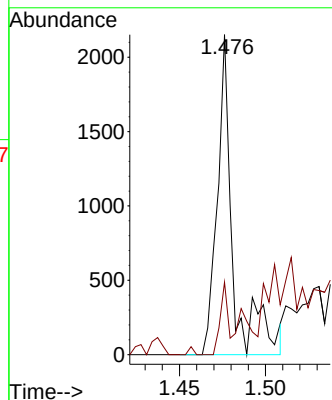
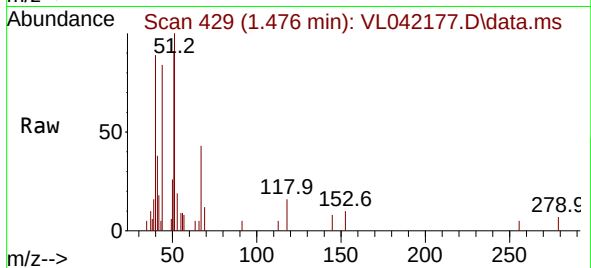




#3  
Chlorodifluoromethane  
Concen: 0.050 ppbv  
RT: 1.476 min Scan# 428  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

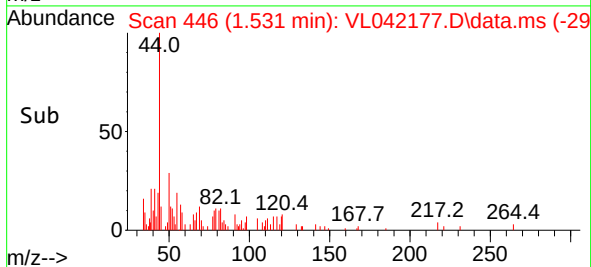
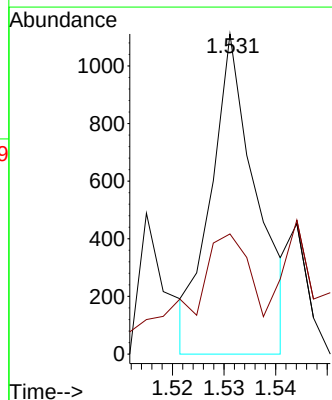
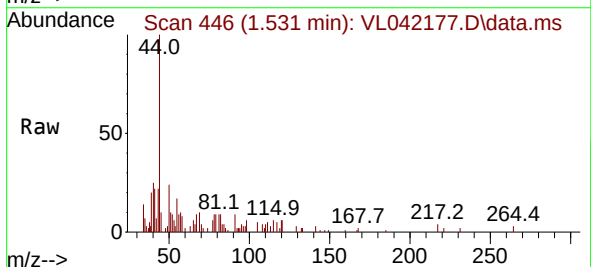
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

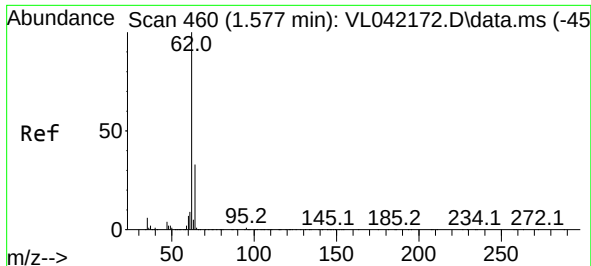
Tgt Ion: 51 Resp: 1354  
Ion Ratio Lower Upper  
51 100  
67 71.0 15.0 22.6#



#4  
Chloromethane  
Concen: 0.063 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

Tgt Ion: 50 Resp: 675  
Ion Ratio Lower Upper  
50 100  
52 24.6 26.1 39.1#

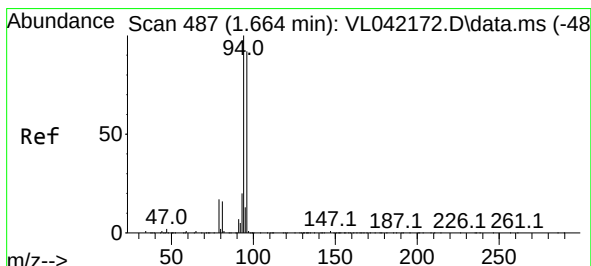
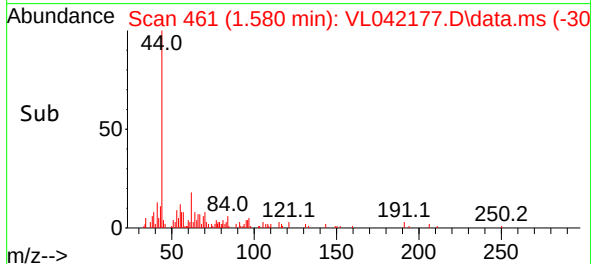
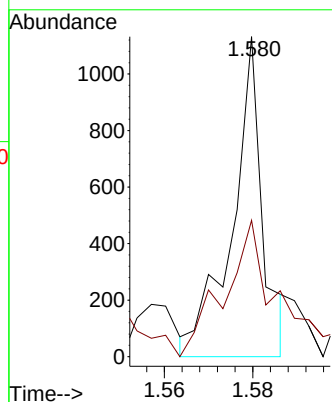
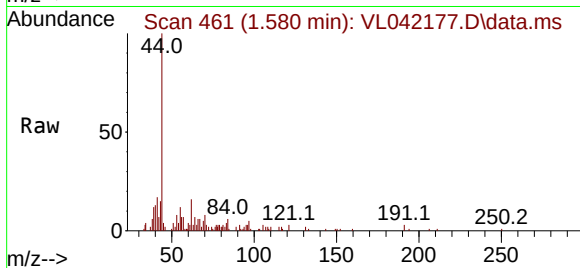




#5  
Vinyl Chloride  
Concen: 0.049 ppbv  
RT: 1.580 min Scan# 461  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

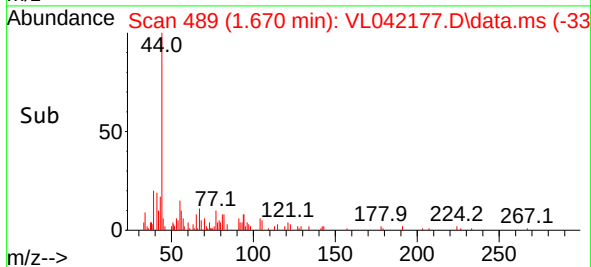
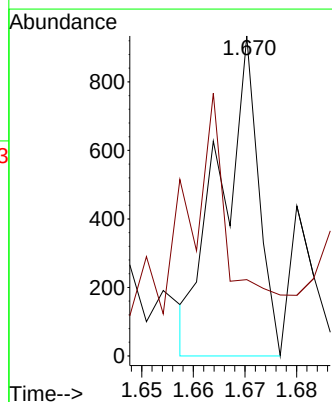
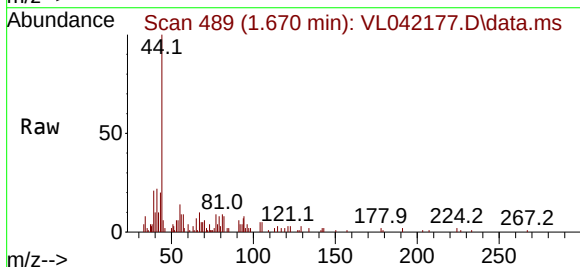
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

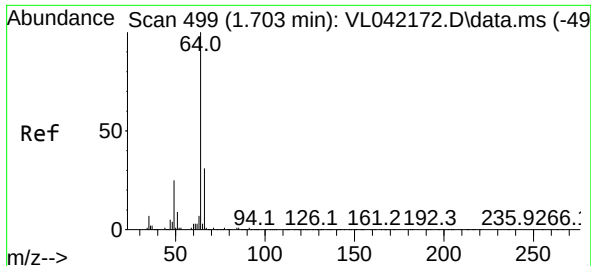
Tgt Ion: 62 Resp: 534  
Ion Ratio Lower Upper  
62 100  
64 45.4 26.6 40.0#



#6  
Bromomethane  
Concen: 0.099 ppbv  
RT: 1.670 min Scan# 489  
Delta R.T. 0.006 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

Tgt Ion: 94 Resp: 483  
Ion Ratio Lower Upper  
94 100  
96 4.8 73.1 109.7#

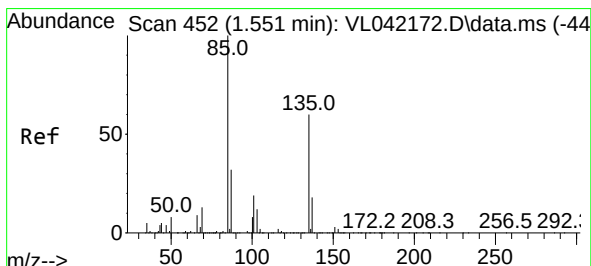
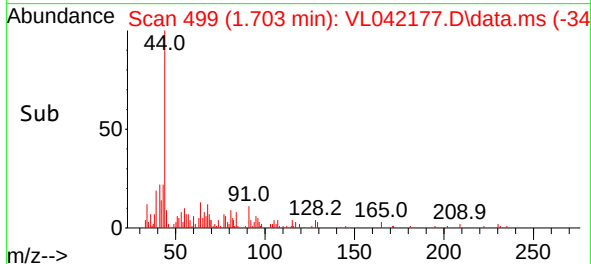
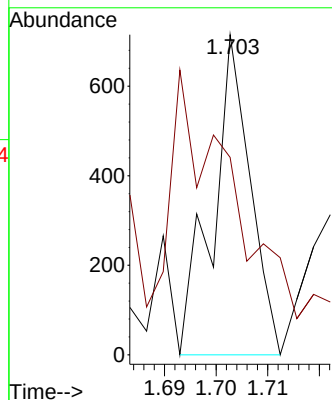
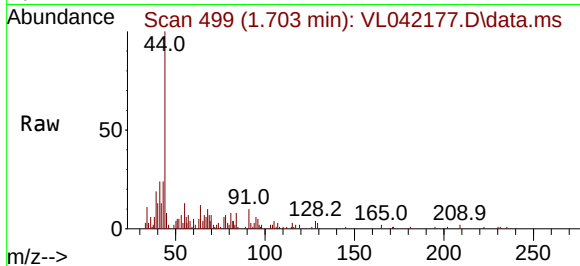




#7  
Chloroethane  
Concen: 0.084 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

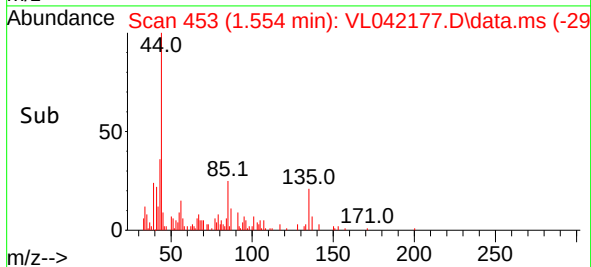
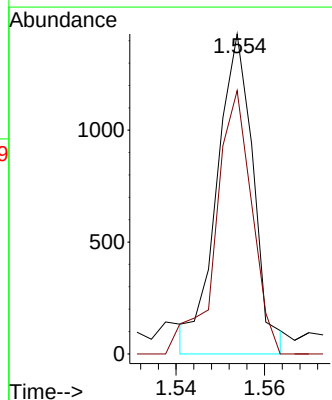
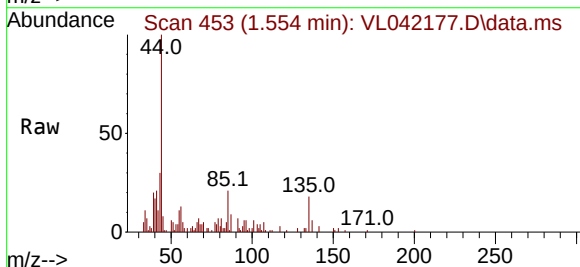
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.03

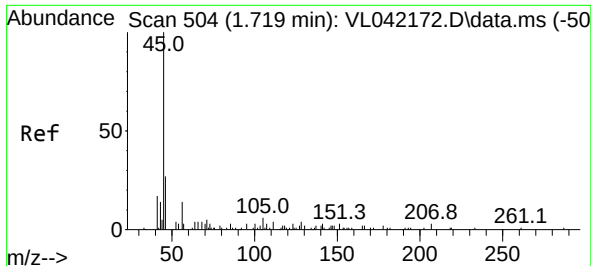
Tgt Ion: 64 Resp: 361  
Ion Ratio Lower Upper  
64 100  
66 61.7 25.2 37.8#



#8  
Dichlorotetrafluoroethane  
Concen: 0.036 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

Tgt Ion: 85 Resp: 815  
Ion Ratio Lower Upper  
85 100  
135 82.3 52.4 78.6#

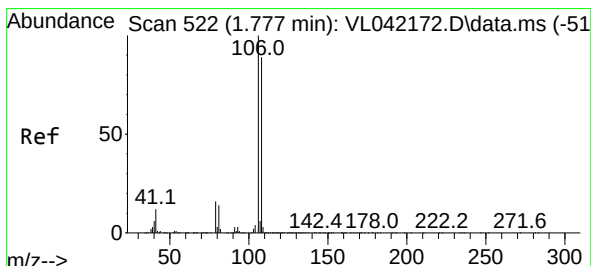
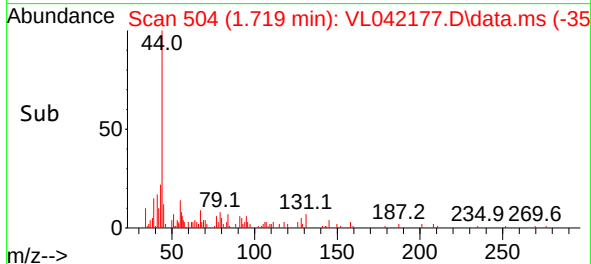
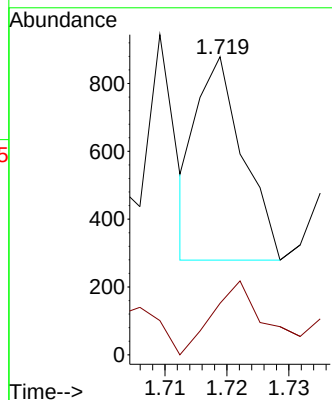
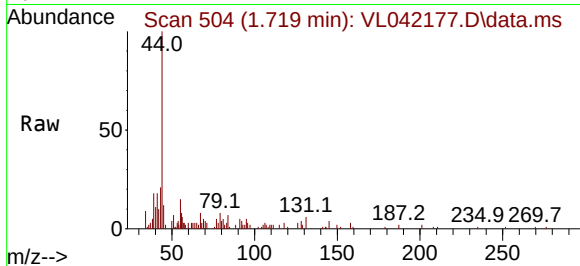




#13  
 Ethanol  
 Concen: 0.329 ppbv  
 RT: 1.719 min Scan# 504  
 Delta R.T. -0.000 min  
 Lab File: VL042177.D  
 Acq: 27 Mar 2025 11:03

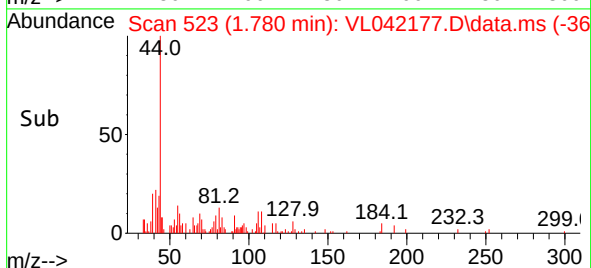
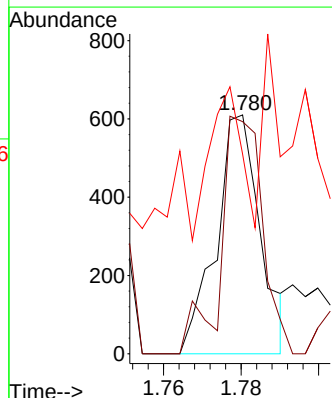
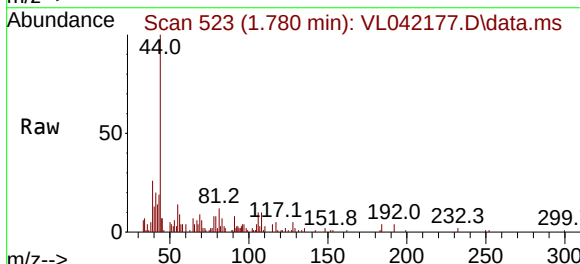
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.03

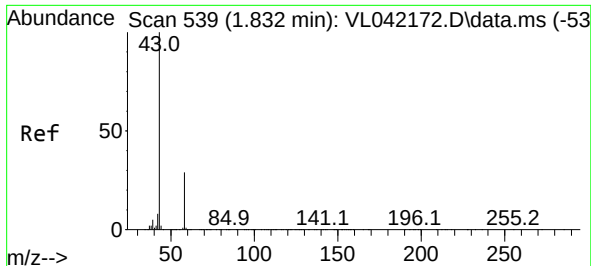
Tgt Ion: 45 Resp: 312  
 Ion Ratio Lower Upper  
 45 100  
 46 0.0 20.2 80.8#



#14  
 Bromoethene  
 Concen: 0.060 ppbv  
 RT: 1.780 min Scan# 523  
 Delta R.T. 0.003 min  
 Lab File: VL042177.D  
 Acq: 27 Mar 2025 11:03

Tgt Ion: 108 Resp: 482  
 Ion Ratio Lower Upper  
 108 100  
 106 100.4 86.8 130.2  
 79 208.5 15.0 22.6#

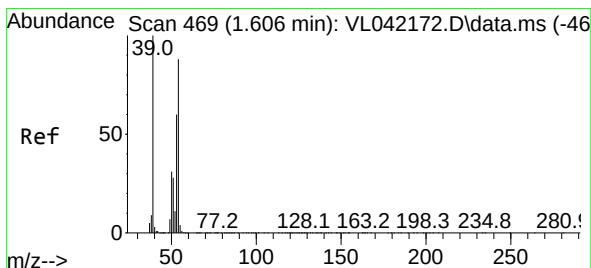
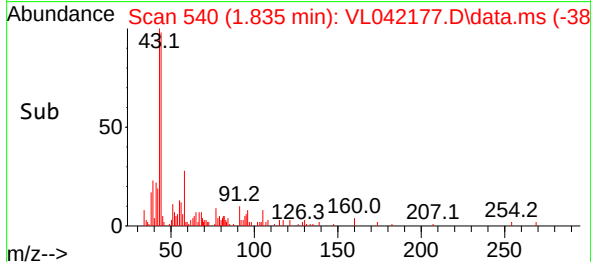
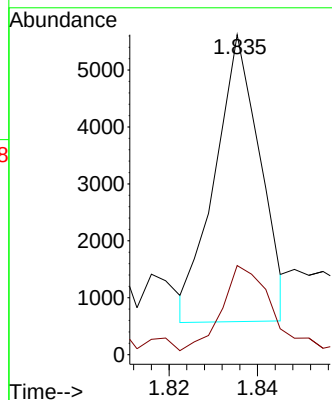
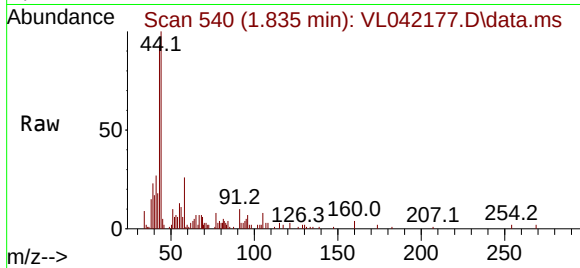




#15  
Acetone  
Concen: 0.144 ppbv  
RT: 1.835 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

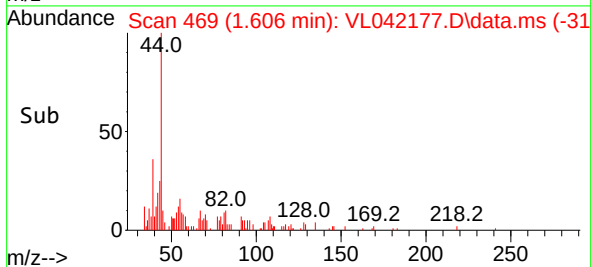
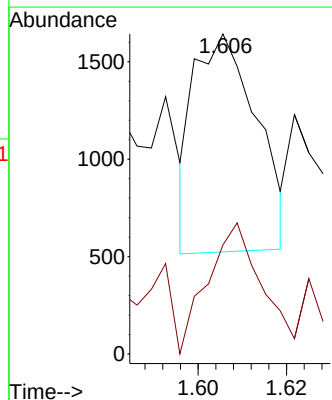
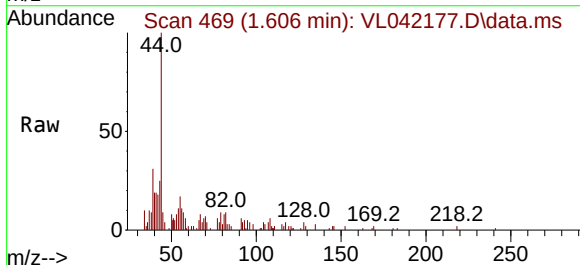
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

Tgt Ion: 43 Resp: 3574  
Ion Ratio Lower Upper  
43 100  
58 48.5 23.2 34.8#

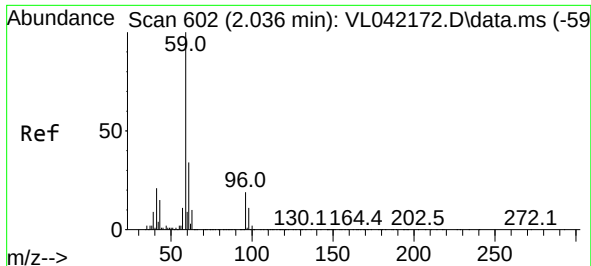


#16  
1,3-Butadiene  
Concen: 0.098 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

Tgt Ion: 39 Resp: 1101  
Ion Ratio Lower Upper  
39 100  
54 113.1 60.7 91.1#







#17

tert-Butyl alcohol

Concen: 0.039 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

Instrument :

MSVOA\_1

ClientSampleId :

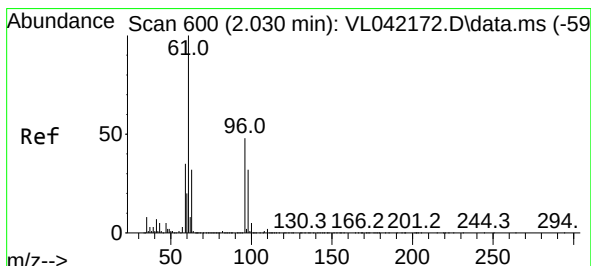
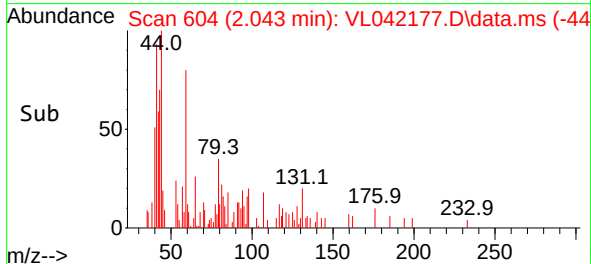
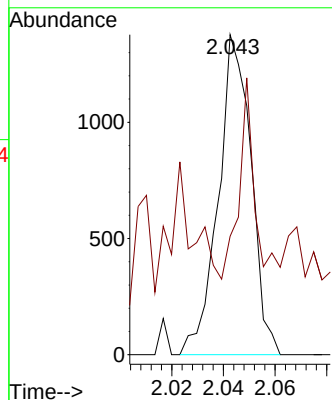
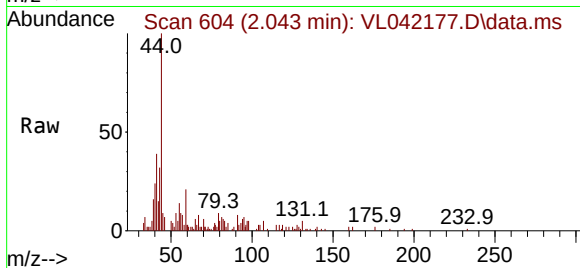
VSTDIC0.03

Tgt Ion: 59 Resp: 1215

Ion Ratio Lower Upper

59 100

57 107.2 8.9 13.3#



#18

1,1-Dichloroethene

Concen: 0.057 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.006 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

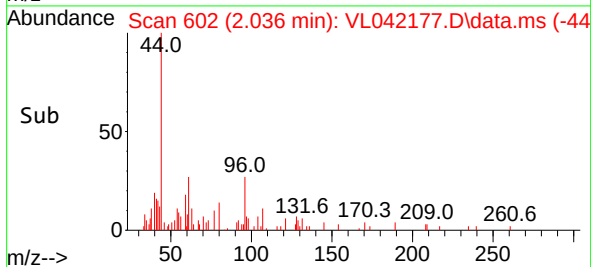
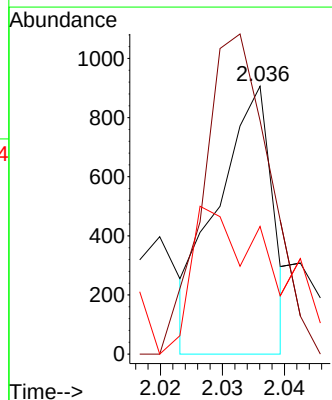
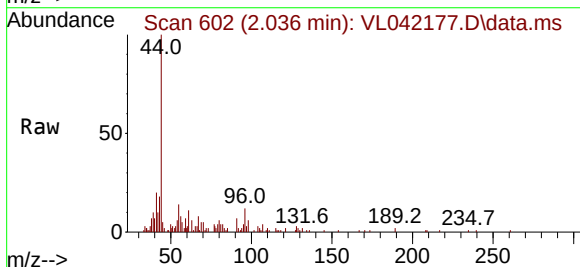
Tgt Ion: 96 Resp: 560

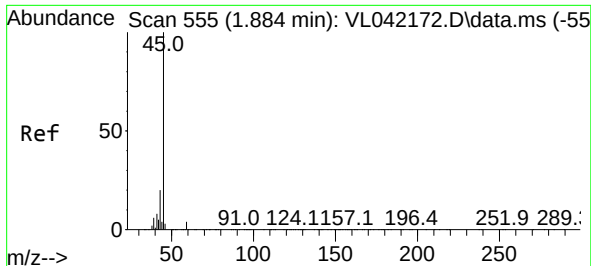
Ion Ratio Lower Upper

96 100

61 87.3 167.6 251.4#

98 56.8 53.5 80.3

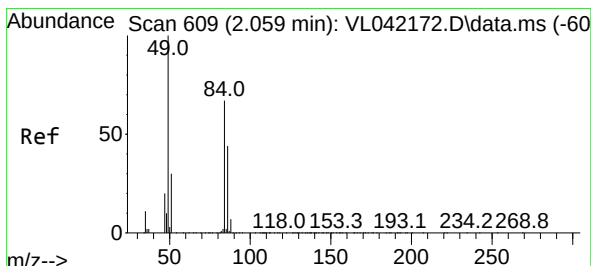
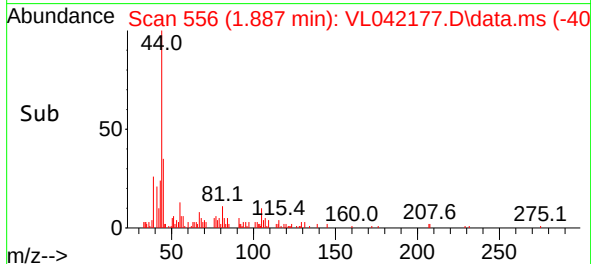
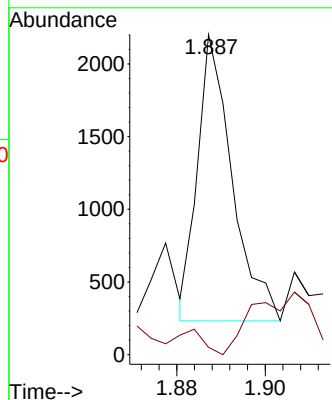
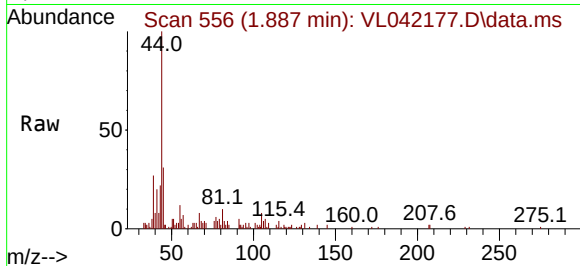




#19  
Isopropyl Alcohol  
Concen: 0.076 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

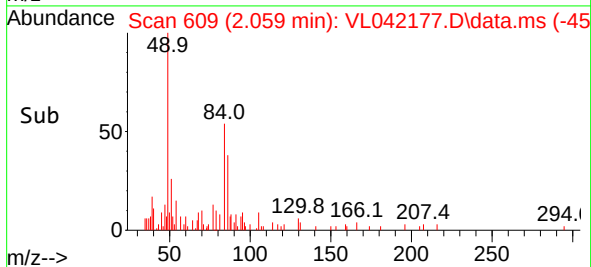
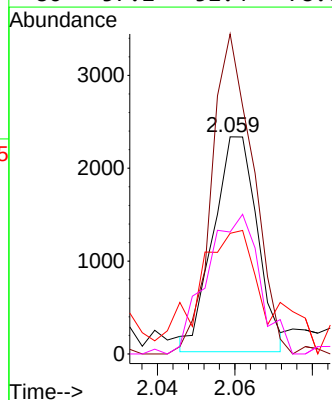
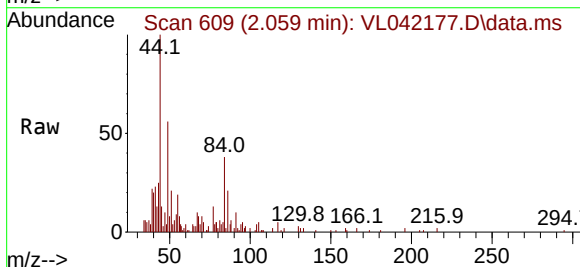
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.03

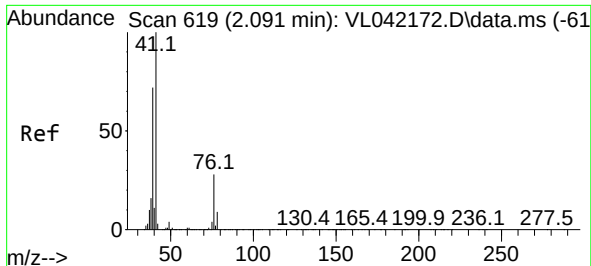
Tgt Ion: 45 Resp: 1071  
Ion Ratio Lower Upper  
45 100  
58 0.0 36.9 55.3#



#20  
Methylene Chloride  
Concen: 0.197 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

Tgt Ion: 84 Resp: 1823  
Ion Ratio Lower Upper  
84 100  
49 156.6 120.2 180.4  
51 34.6 37.4 56.0#  
86 57.2 52.4 78.6

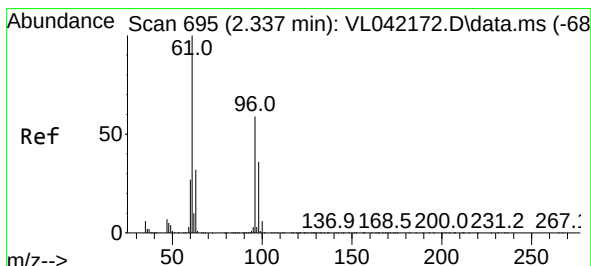
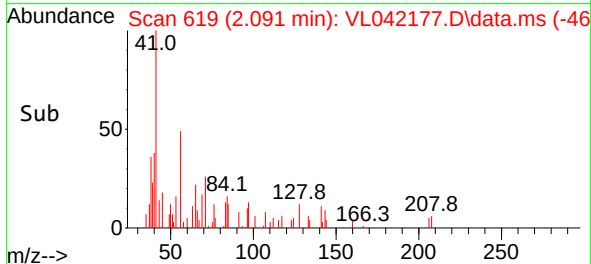
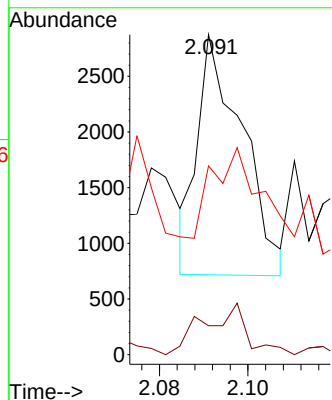
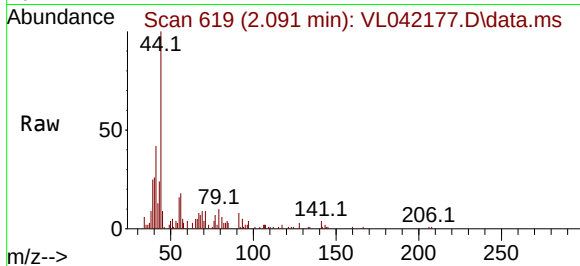




#21  
 Allyl Chloride  
 Concen: 0.086 ppbv  
 RT: 2.091 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL042177.D  
 Acq: 27 Mar 2025 11:03

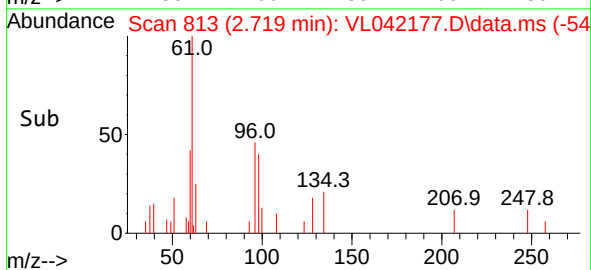
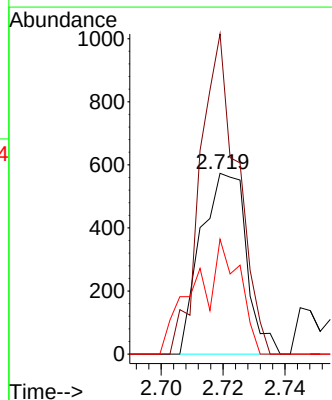
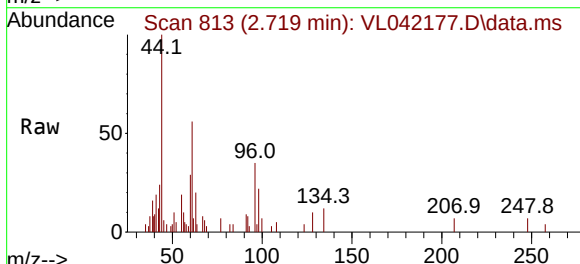
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03

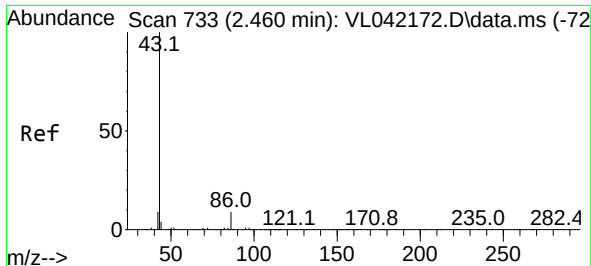
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 1518  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 25.9  | 24.1  | 36.1  |
| 39       | 158.8 | 61.1  | 91.7# |



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.051 ppbv  
 RT: 2.719 min Scan# 813  
 Delta R.T. 0.382 min  
 Lab File: VL042177.D  
 Acq: 27 Mar 2025 11:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 586   |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 177.1 | 136.6 | 204.8 |
| 98       | 63.5  | 49.4  | 74.2  |

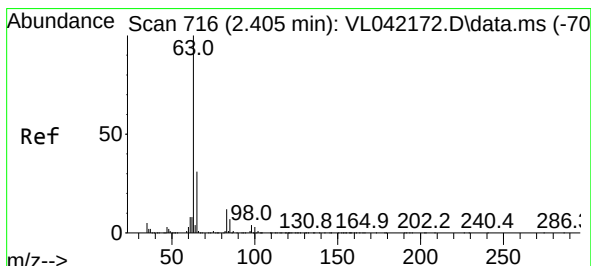
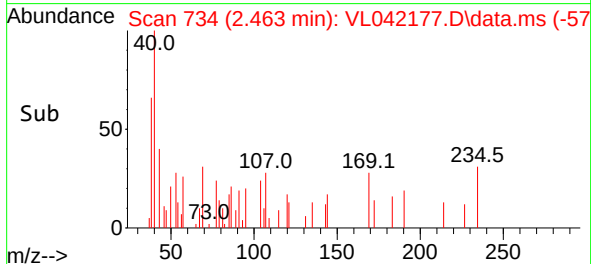
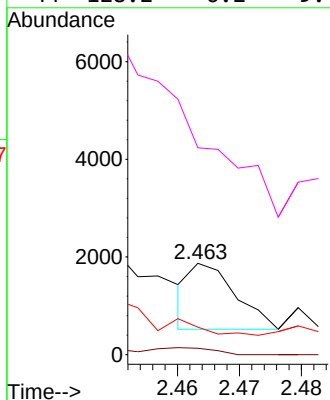
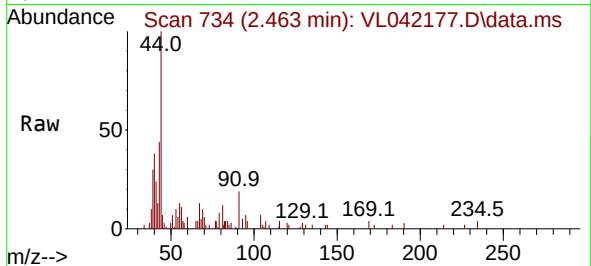




#23  
Vinyl Acetate  
Concen: 0.067 ppbv  
RT: 2.463 min Scan# 718  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

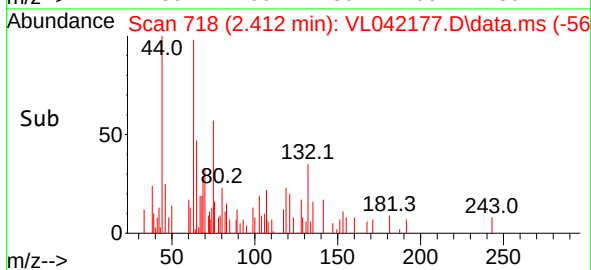
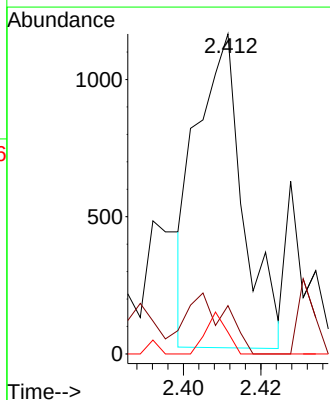
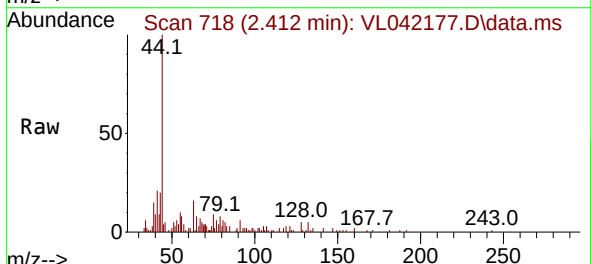
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

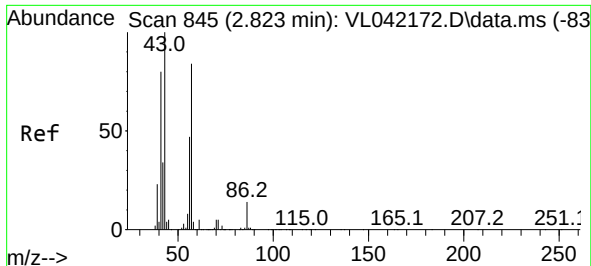
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 689   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 9.7   | 5.5   | 8.3#  |
| 42       | 6.8   | 8.6   | 13.0# |
| 44       | 128.2 | 6.2   | 9.4#  |



#24  
1,1-Dichloroethane  
Concen: 0.046 ppbv  
RT: 2.412 min Scan# 718  
Delta R.T. 0.006 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 961   |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 16.8  | 2.3   | 6.8#  |
| 100      | 7.6   | 1.6   | 4.7#  |

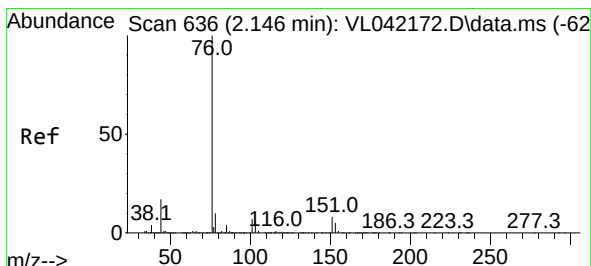
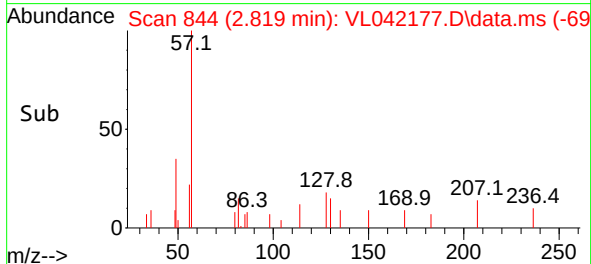
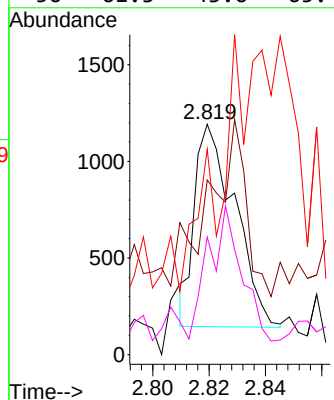
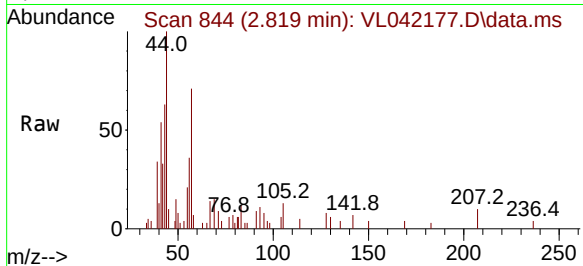




#26  
Hexane  
Concen: 0.042 ppbv  
RT: 2.819 min Scan# 84  
Delta R.T. -0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

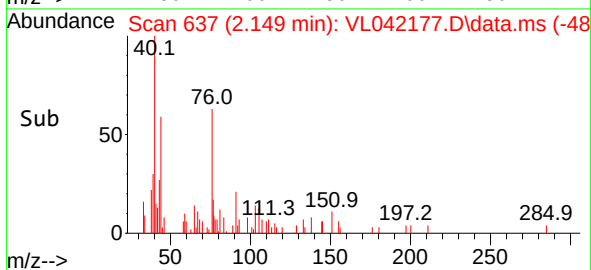
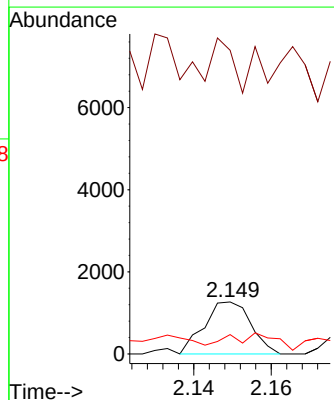
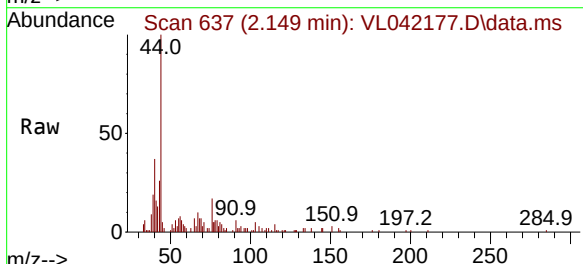
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

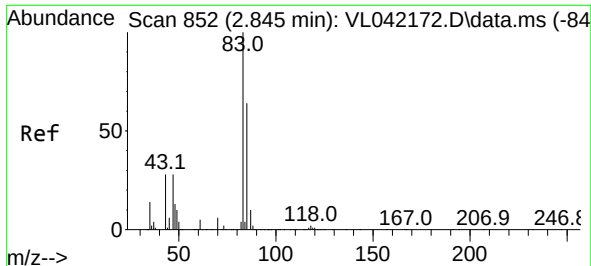
|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 1040   |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 179.4    | 76.6 114.8#  |
| 43 351.5    | 207.8 311.8# |
| 56 61.3     | 43.6 65.4    |



#27  
Carbon Disulfide  
Concen: 0.040 ppbv  
RT: 2.149 min Scan# 637  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

|             |            |       |  |
|-------------|------------|-------|--|
| Tgt Ion: 76 | Resp: 1061 |       |  |
| Ion Ratio   | Lower      | Upper |  |
| 76 100      |            |       |  |
| 44 0.0      | 14.7       | 22.1# |  |
| 78 112.4    | 9.3        | 13.9# |  |





#29

Chloroform

Concen: 0.044 ppbv

RT: 2.848 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

Instrument :

MSVOA\_L

ClientSampleId :

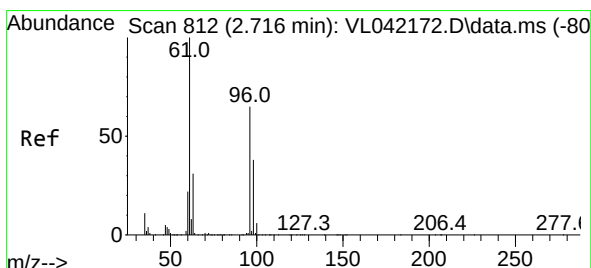
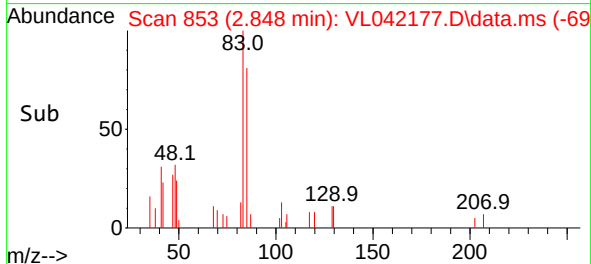
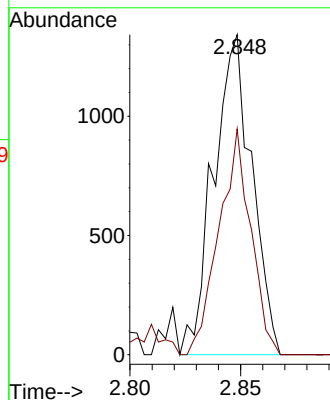
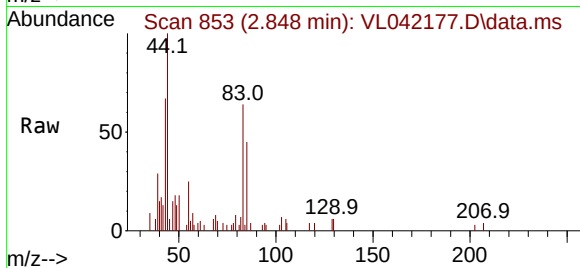
VSTDICC0.03

Tgt Ion: 83 Resp: 1619

Ion Ratio Lower Upper

83 100

85 70.6 51.4 77.2



#31

cis-1,2-Dichloroethene

Concen: 0.033 ppbv

RT: 2.719 min Scan# 813

Delta R.T. 0.003 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

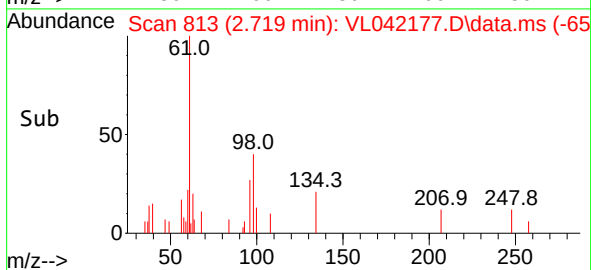
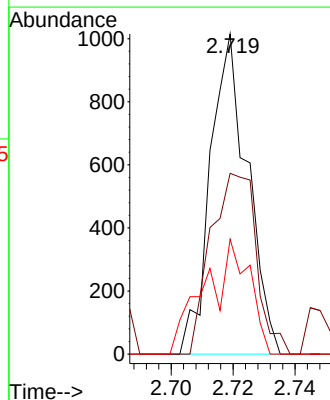
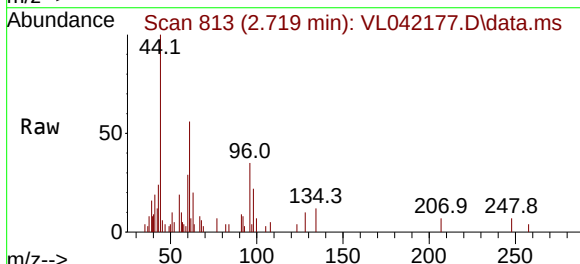
Tgt Ion: 61 Resp: 846

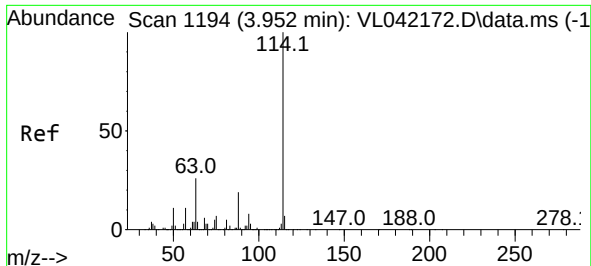
Ion Ratio Lower Upper

61 100

96 56.5 51.8 77.8

98 35.9 30.6 46.0

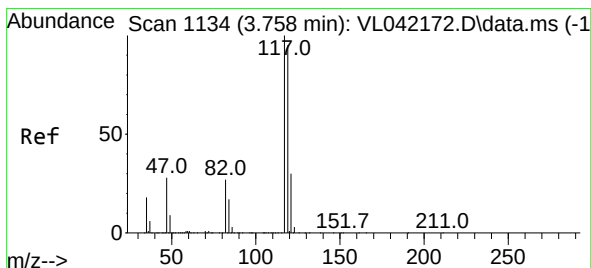
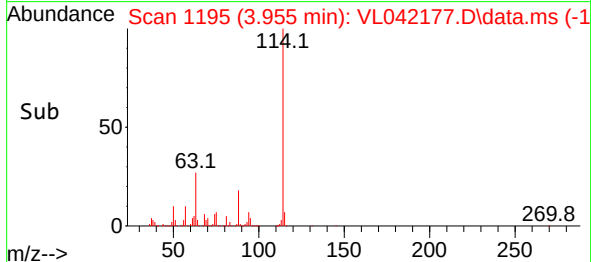
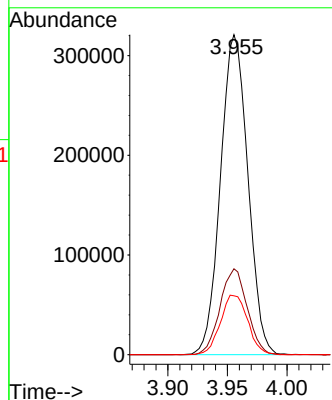
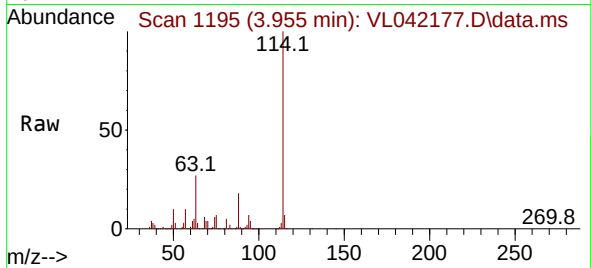




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.955 min Scan# 1195  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

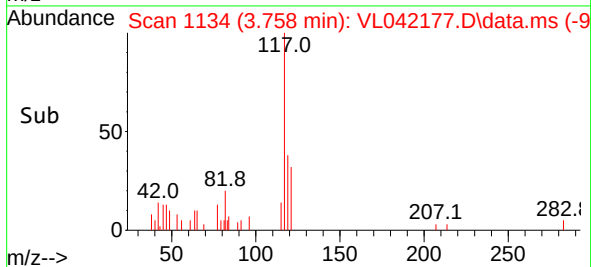
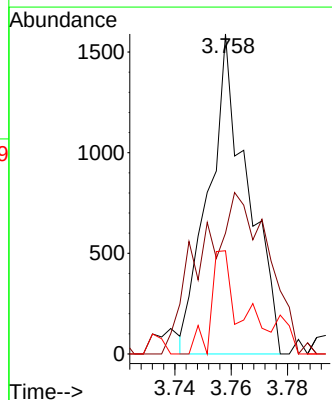
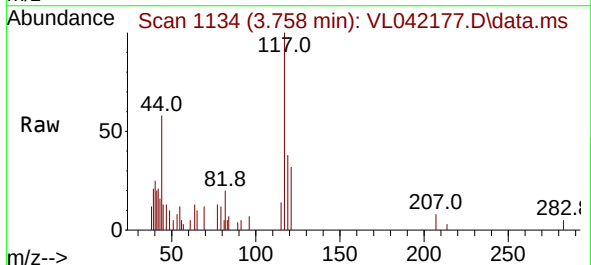
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

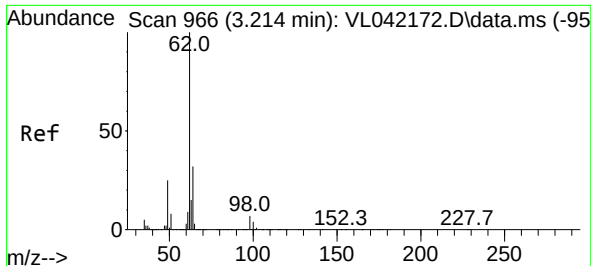
Tgt Ion:114 Resp: 512915  
Ion Ratio Lower Upper  
114 100  
63 26.6 20.7 31.1  
88 18.6 15.0 22.4



#35  
Carbon Tetrachloride  
Concen: 0.039 ppbv  
RT: 3.758 min Scan# 1134  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

Tgt Ion:117 Resp: 1520  
Ion Ratio Lower Upper  
117 100  
119 22.1 76.2 114.2#  
121 32.3 24.2 36.4

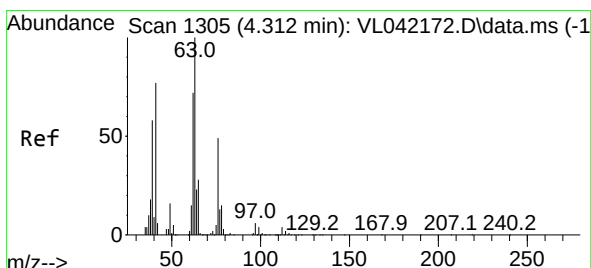
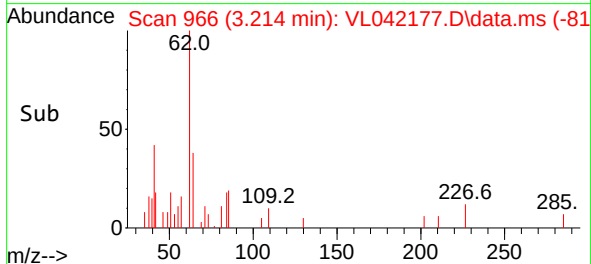
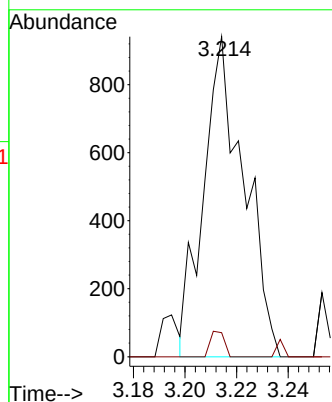
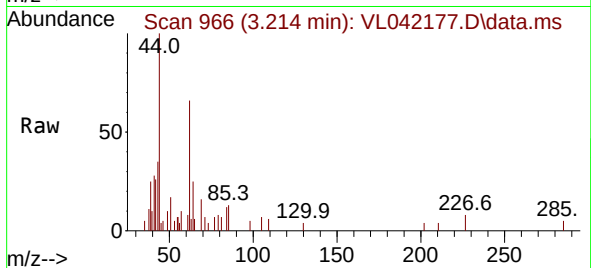




#37  
1,2-Dichloroethane  
Concen: 0.035 ppbv  
RT: 3.214 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

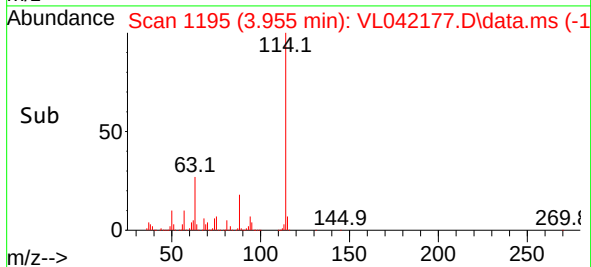
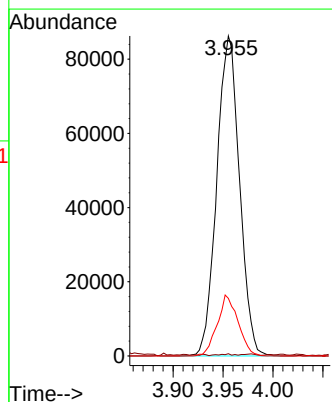
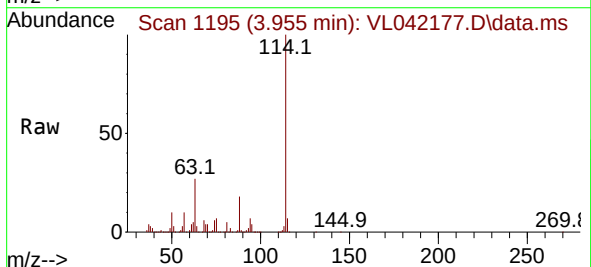
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Tgt Ion: 62 Resp: 1029  
Ion Ratio Lower Upper  
62 100  
98 2.7 5.4 8.2#

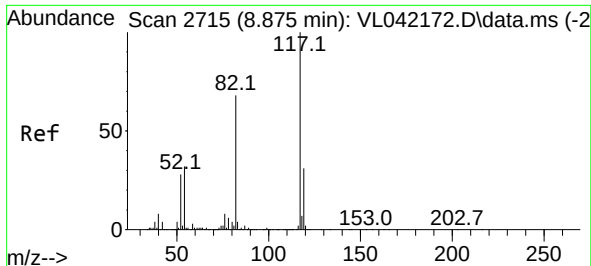


#39  
1,2-Dichloropropane  
Concen: 7.372 ppbv  
RT: 3.955 min Scan# 1195  
Delta R.T. -0.356 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

Tgt Ion: 63 Resp: 136518  
Ion Ratio Lower Upper  
63 100  
41 0.4 61.7 92.5#  
62 18.0 57.6 86.4#



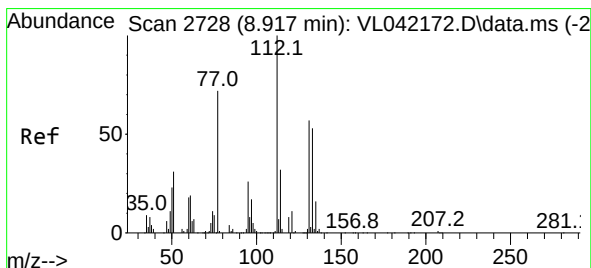
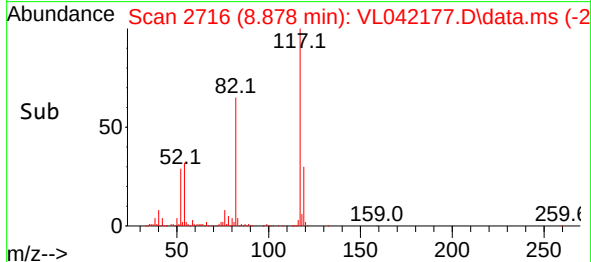
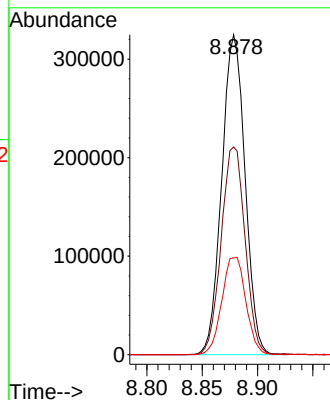
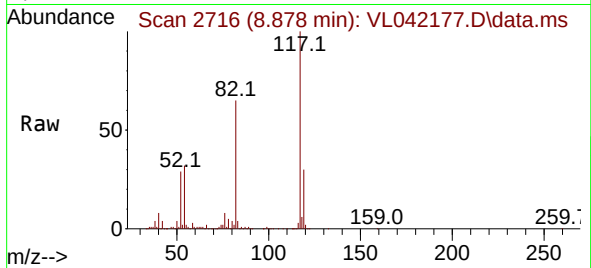




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

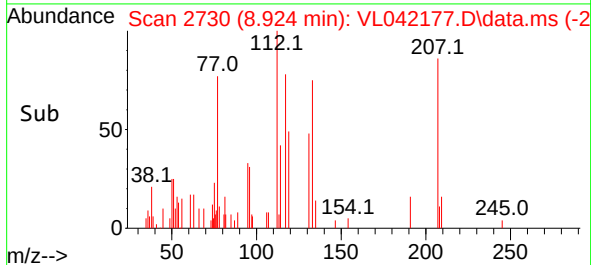
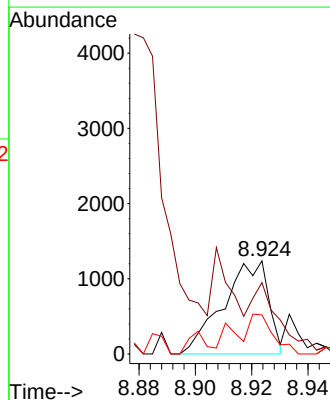
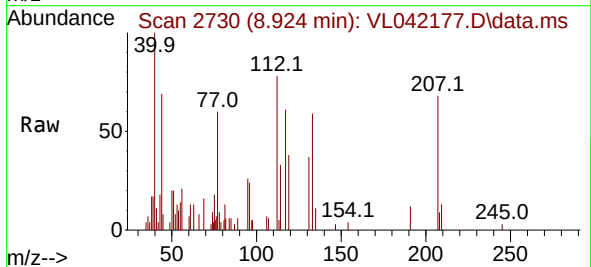
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MSVOA\_1  
ClientSampleId :  
VSTDICC0.03

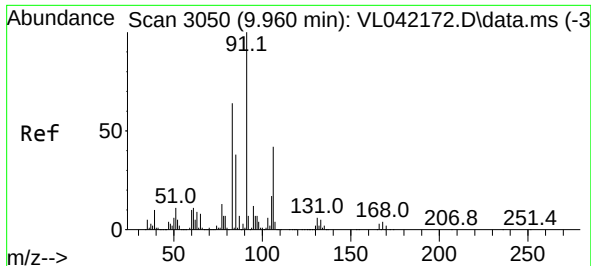
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:117 | Resp: | 475617    |
| Ion Ratio   | Lower | Upper     |
| 117         | 100   |           |
| 82          | 66.7  | 55.8 83.6 |
| 119         | 31.5  | 25.5 38.3 |



#57  
Chlorobenzene  
Concen: 0.031 ppbv  
RT: 8.924 min Scan# 2730  
Delta R.T. 0.006 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:112 | Resp: | 1382       |
| Ion Ratio   | Lower | Upper      |
| 112         | 100   |            |
| 77          | 32.1  | 58.2 87.2# |
| 114         | 41.8  | 29.1 35.5# |

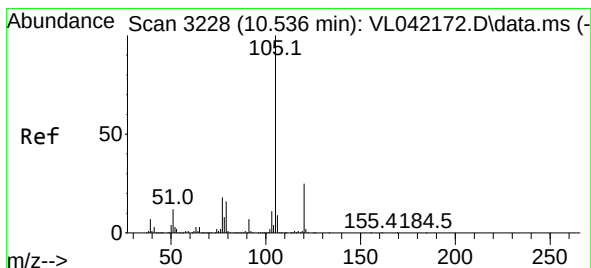
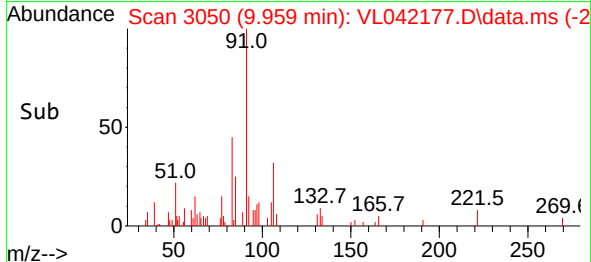
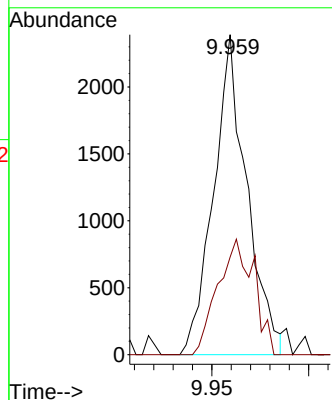
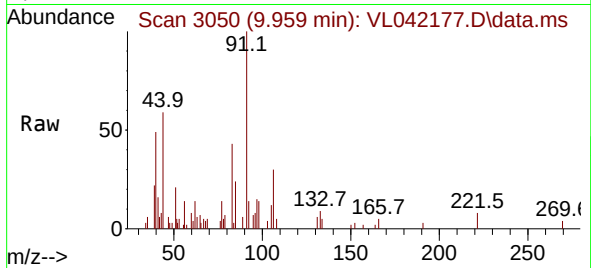




#60  
o-Xylene  
Concen: 0.042 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

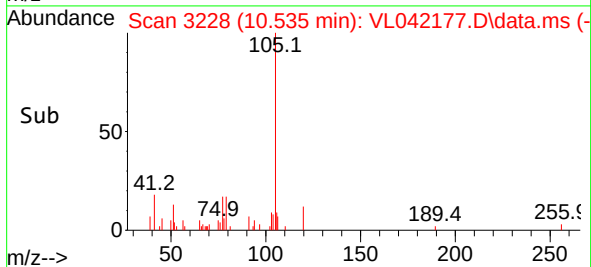
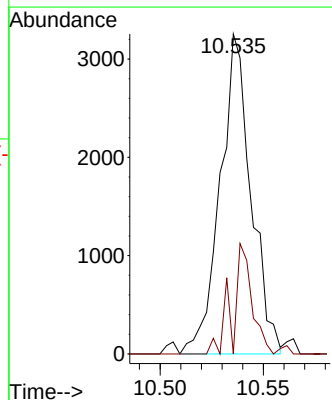
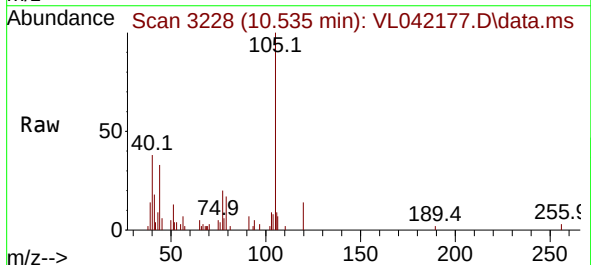
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

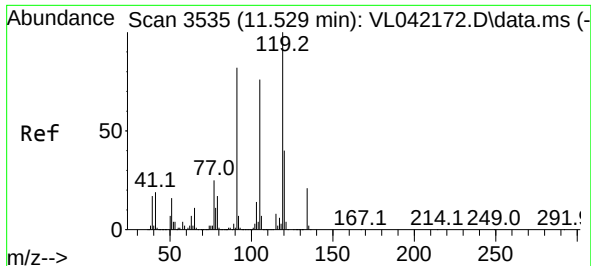
Tgt Ion: 91 Resp: 2844  
Ion Ratio Lower Upper  
91 100  
106 39.4 20.8 62.5



#62  
Isopropylbenzene  
Concen: 0.033 ppbv  
RT: 10.535 min Scan# 3228  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

Tgt Ion: 105 Resp: 3380  
Ion Ratio Lower Upper  
105 100  
120 22.3 19.9 29.9

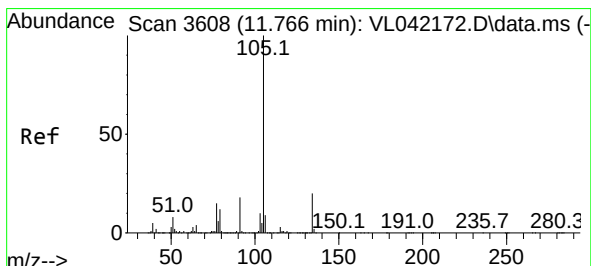
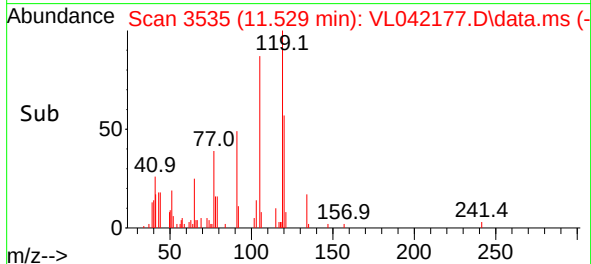
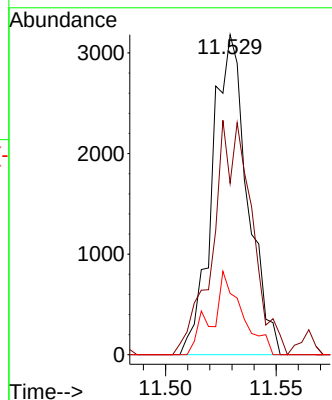
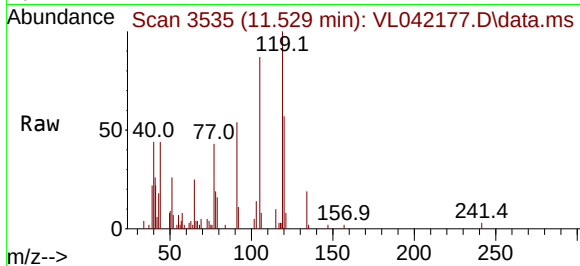




#65  
tert-Butylbenzene  
Concen: 0.038 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

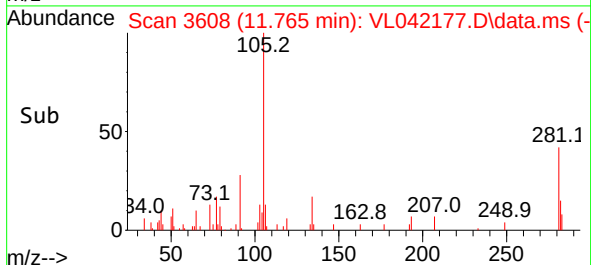
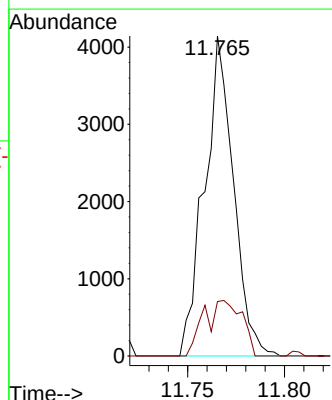
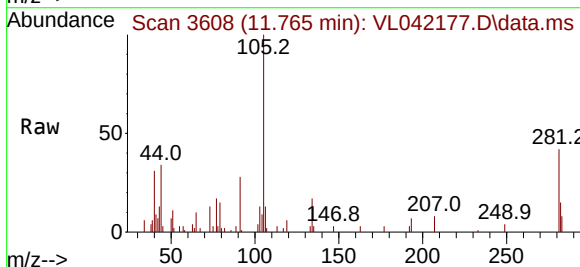
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.03

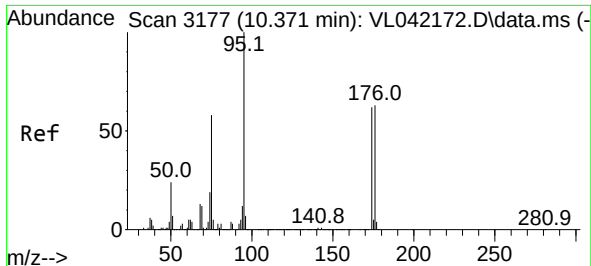
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:119 | Resp: | 3543        |
| Ion         | Ratio | Lower Upper |
| 119         | 100   |             |
| 91          | 83.5  | 66.0 99.0   |
| 134         | 22.4  | 16.7 25.1   |



#67  
sec-Butylbenzene  
Concen: 0.033 ppbv  
RT: 11.765 min Scan# 3608  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:105 | Resp: | 4317        |
| Ion         | Ratio | Lower Upper |
| 105         | 100   |             |
| 134         | 22.8  | 15.5 23.3   |

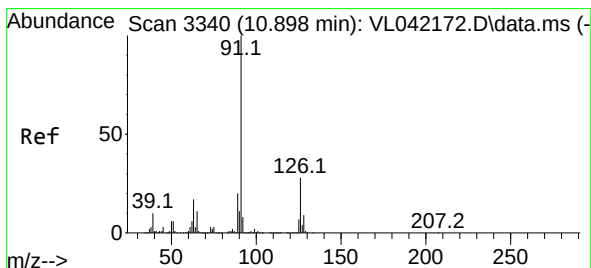
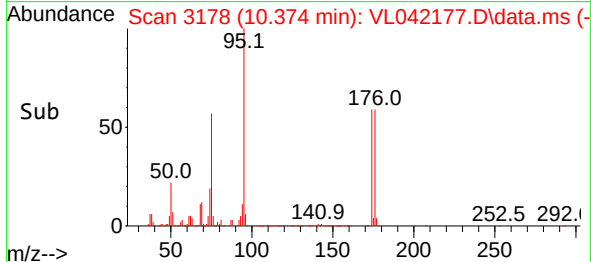
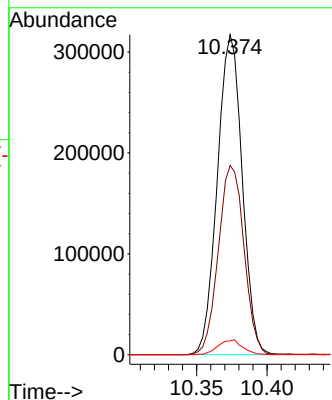
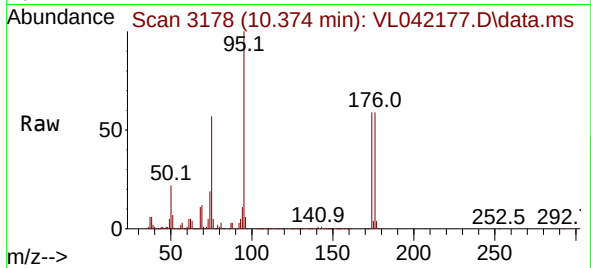




#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.983 ppbv  
RT: 10.374 min Scan# 3177  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

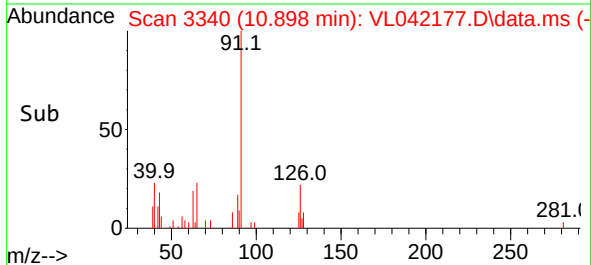
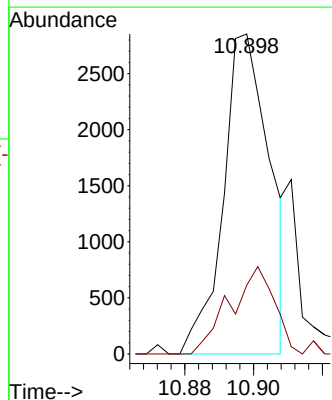
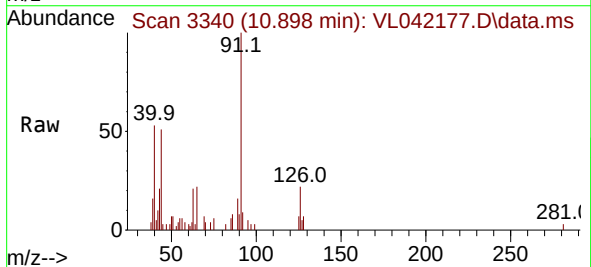
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

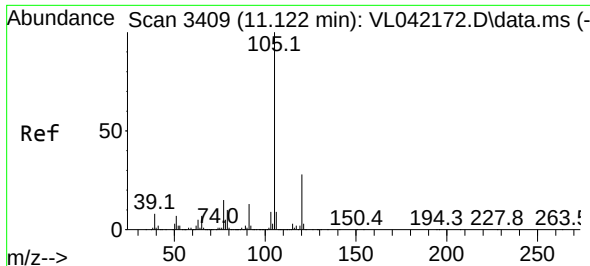
Tgt Ion: 95 Resp: 389935  
Ion Ratio Lower Upper  
95 100  
174 61.2 50.6 76.0  
175 4.6 3.8 5.6



#71  
2-Chlorotoluene  
Concen: 0.034 ppbv  
RT: 10.898 min Scan# 3340  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

Tgt Ion: 91 Resp: 2666  
Ion Ratio Lower Upper  
91 100  
126 27.2 11.6 46.4

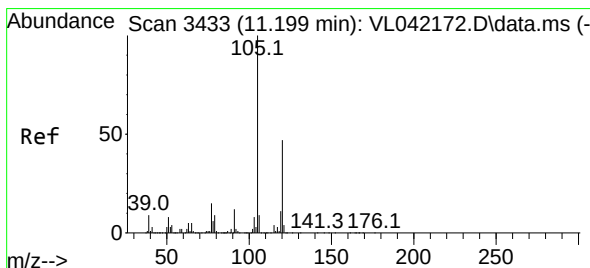
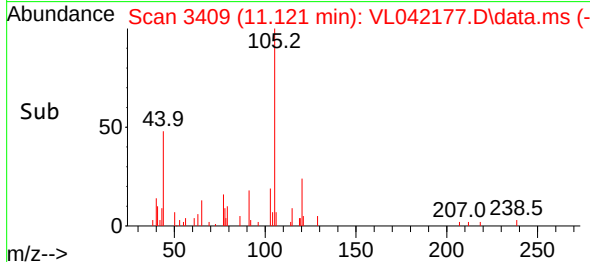
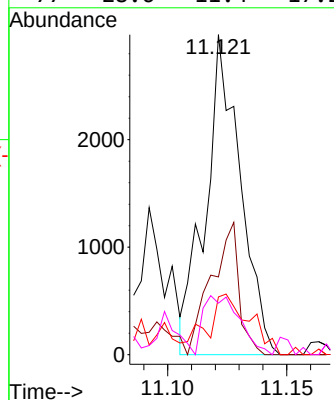
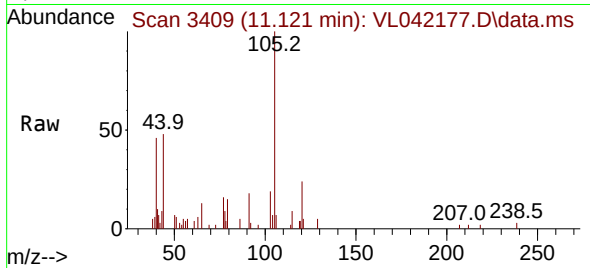




#72  
4-Ethyltoluene  
Concen: 0.036 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.000 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

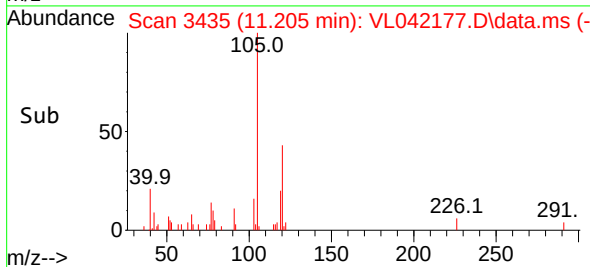
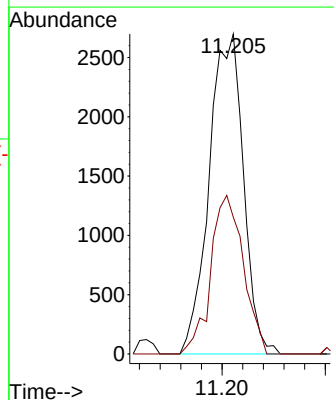
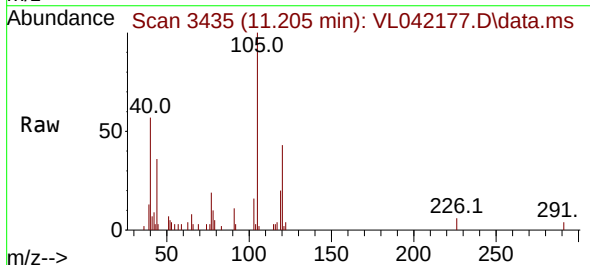
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

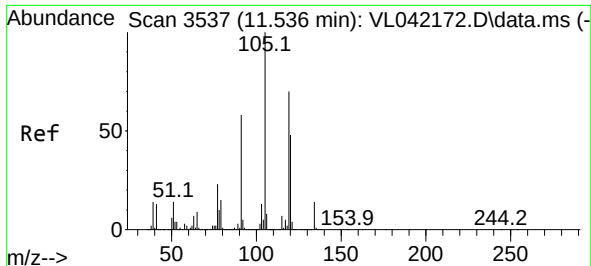
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 3017  |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 44.5  | 23.4  | 35.0# |
| 91        | 34.0  | 10.3  | 15.5# |
| 77        | 28.6  | 11.4  | 17.2# |



#73  
1,3,5-Trimethylbenzene  
Concen: 0.042 ppbv  
RT: 11.205 min Scan# 3435  
Delta R.T. 0.006 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 3101 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 42.8  | 37.4  | 56.0 |

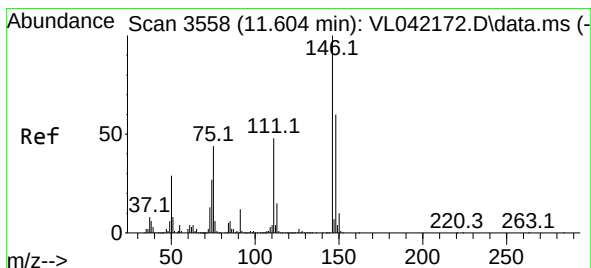
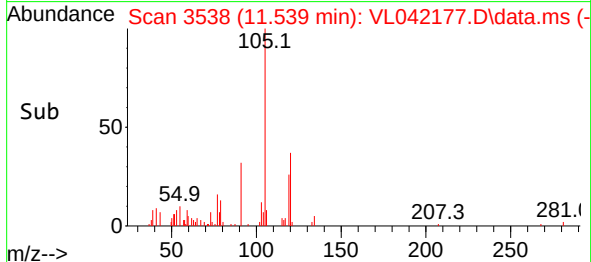
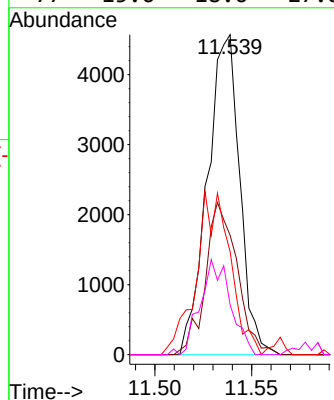
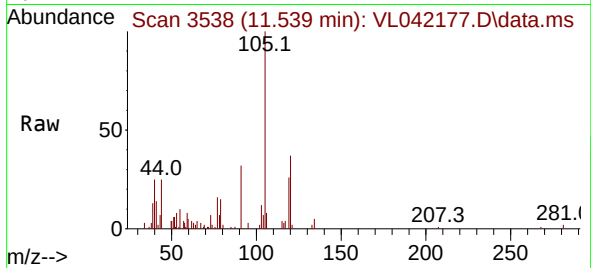




#74  
1,2,4-Trimethylbenzene  
Concen: 0.063 ppbv  
RT: 11.539 min Scan# 3537  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

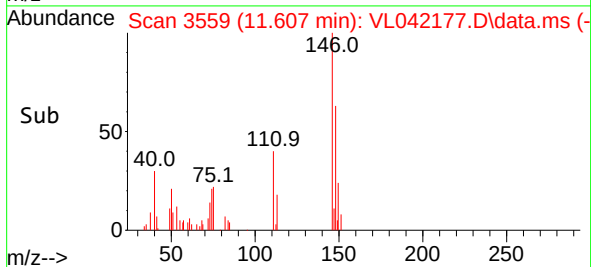
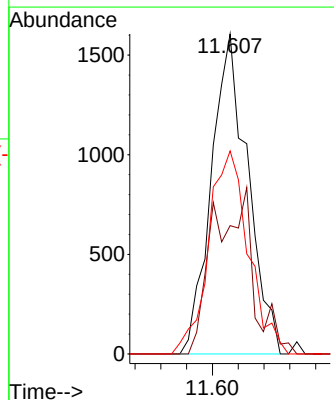
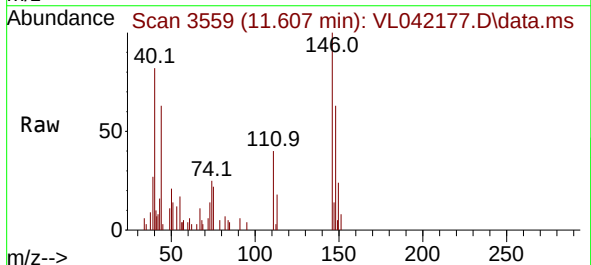
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ClientSampleId :  
VSTDIC0.03

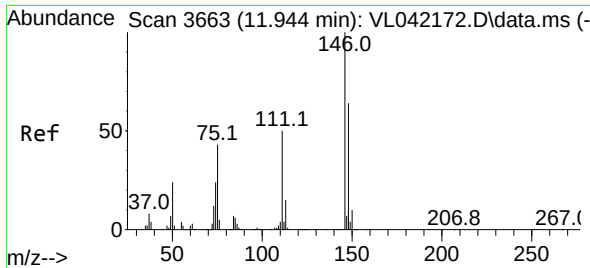
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 5313  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 37.3  | 38.6  | 58.0# |
| 91       | 26.8  | 46.2  | 69.2# |
| 77       | 15.6  | 18.6  | 27.8# |



#75  
1,3-Dichlorobenzene  
Concen: 0.034 ppbv  
RT: 11.607 min Scan# 3559  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 1577  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 56.6  | 23.8  | 71.2  |
| 148      | 69.2  | 31.9  | 95.9  |

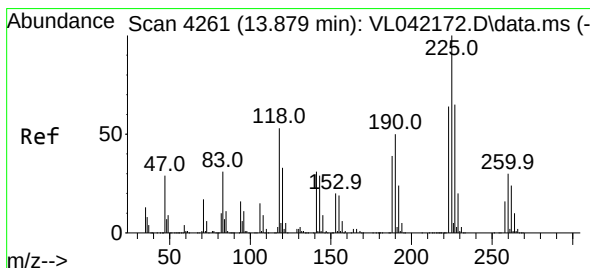
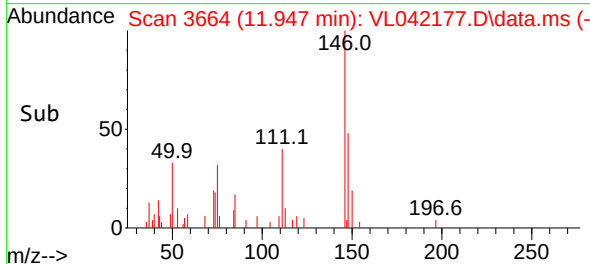
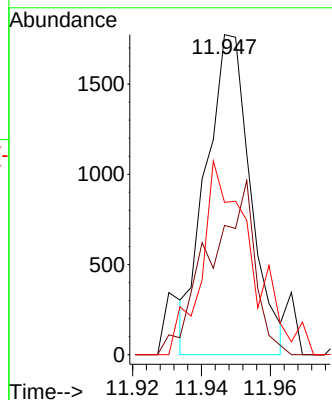
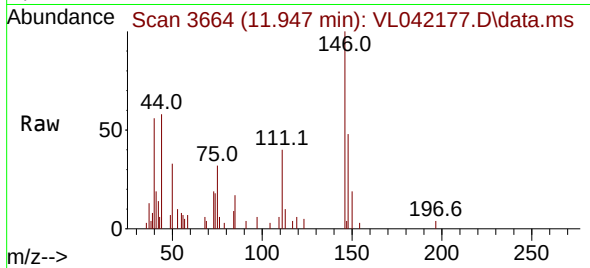




#77  
1,2-Dichlorobenzene  
Concen: 0.035 ppbv  
RT: 11.947 min Scan# 3664  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

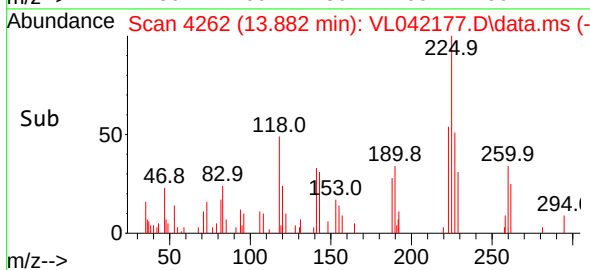
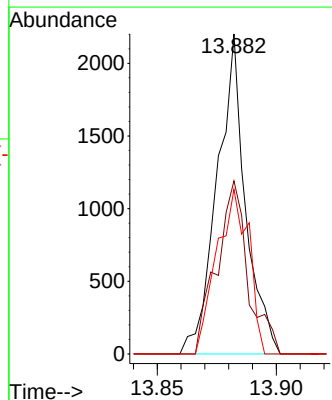
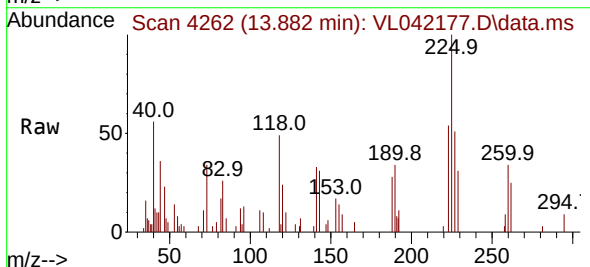
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 1591  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 55.6  | 24.8  | 74.3  |
| 148      | 68.3  | 31.6  | 94.8  |



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.040 ppbv  
RT: 13.882 min Scan# 4262  
Delta R.T. 0.003 min  
Lab File: VL042177.D  
Acq: 27 Mar 2025 11:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 1821  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 59.6  | 50.6  | 76.0  |
| 227      | 58.0  | 51.2  | 76.8  |



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 26 06:05:16 2022

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   | 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 : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

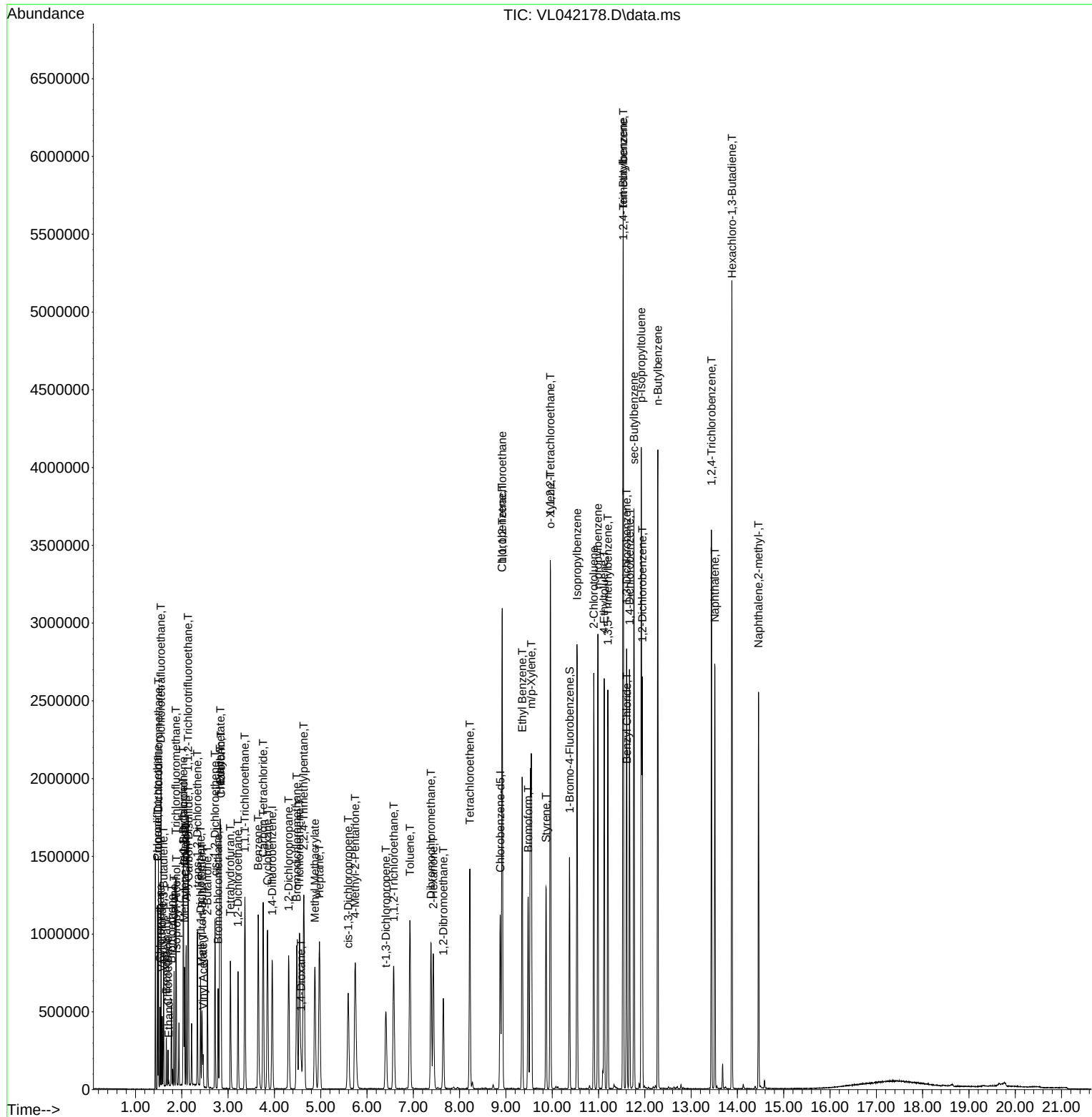
Quant Time: Mar 28 01:37:01 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 01:31:23 2025  
 Response via : Initial Calibration

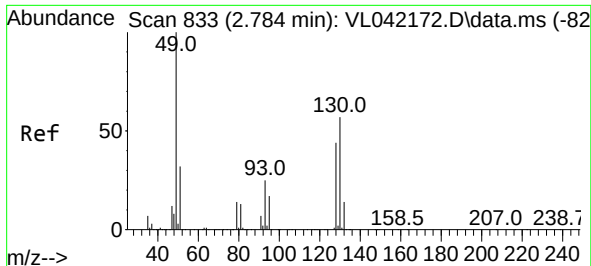
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 400813   | 14.542 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 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   | 866684   | 12.901 | ppbv # | 22       |
| 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

**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\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration

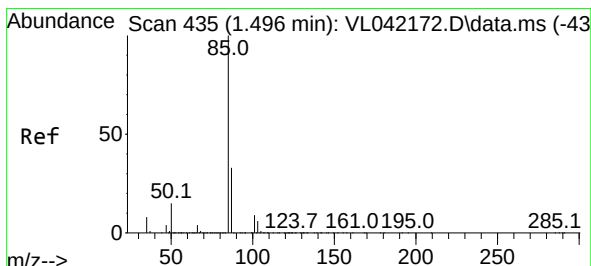
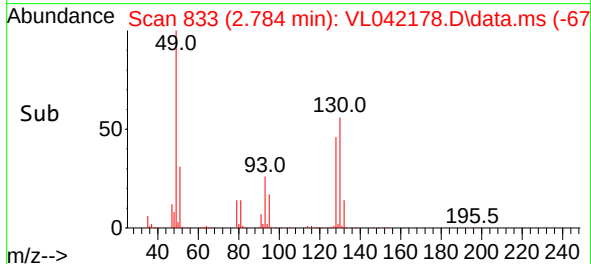
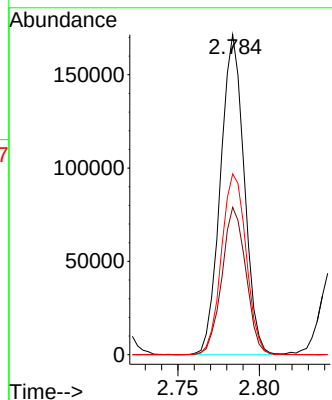
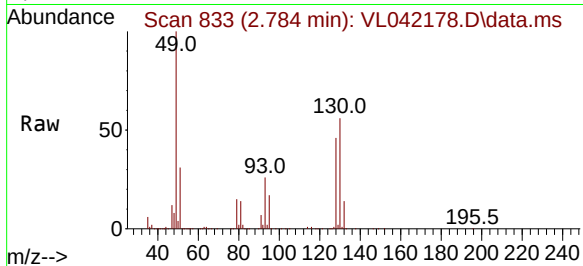




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

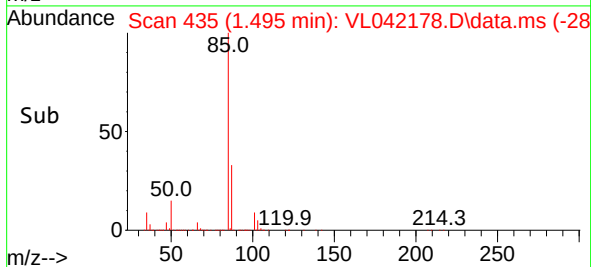
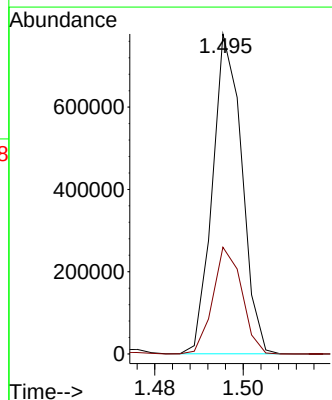
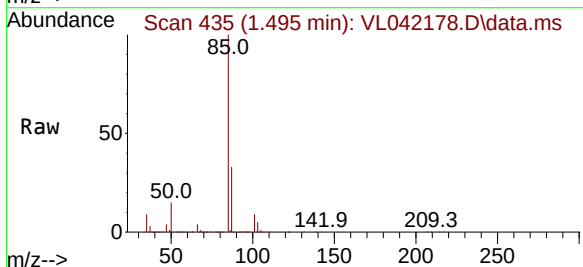
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

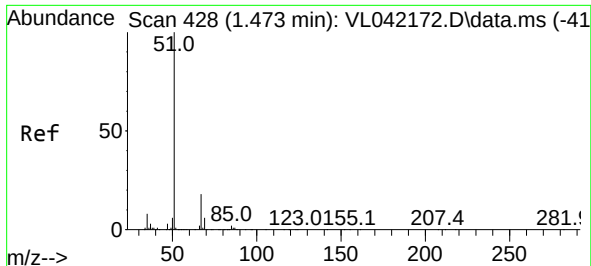
Tgt Ion: 49 Resp: 173372  
Ion Ratio Lower Upper  
49 100  
128 46.4 22.9 68.5  
130 58.7 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 14.023 ppbv  
RT: 1.495 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 85 Resp: 358962  
Ion Ratio Lower Upper  
85 100  
87 33.4 26.1 39.1

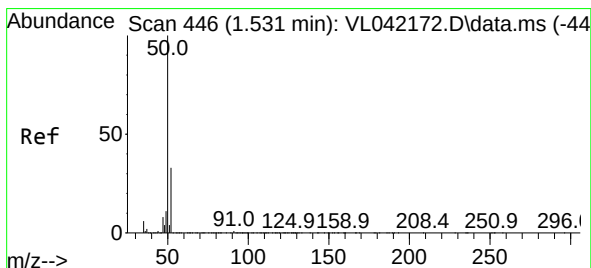
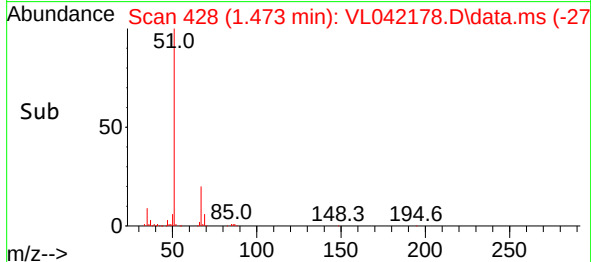
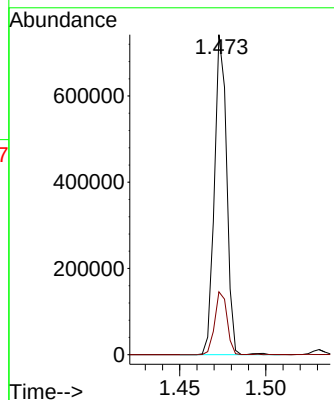
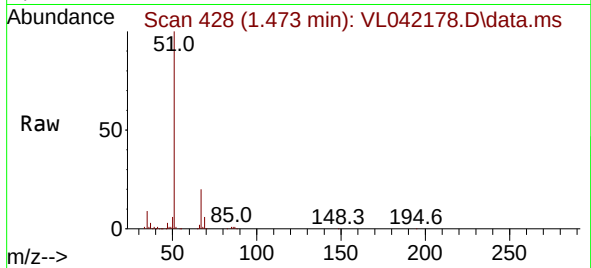




#3  
Chlorodifluoromethane  
Concen: 14.002 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

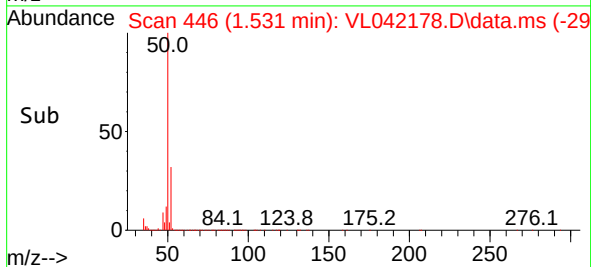
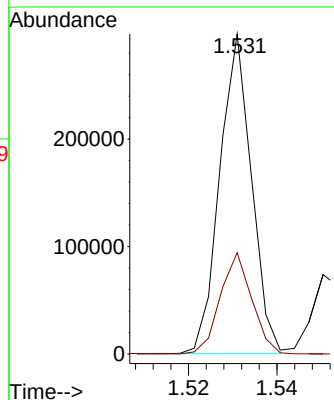
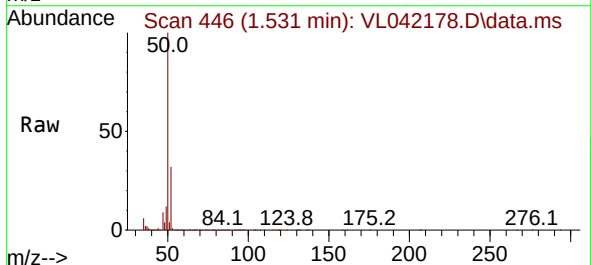
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

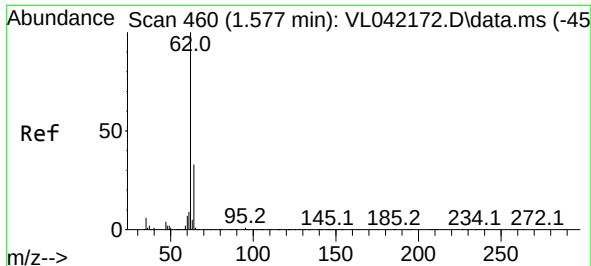
Tgt Ion: 51 Resp: 366164  
Ion Ratio Lower Upper  
51 100  
67 19.8 15.0 22.6



#4  
Chloromethane  
Concen: 14.160 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 50 Resp: 148133  
Ion Ratio Lower Upper  
50 100  
52 31.6 26.1 39.1

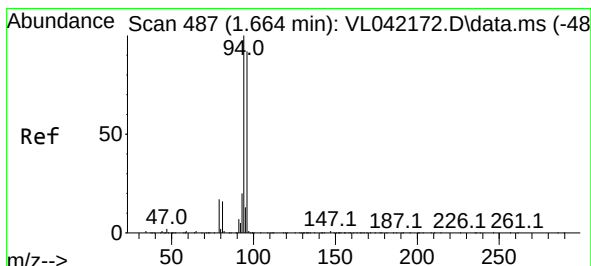
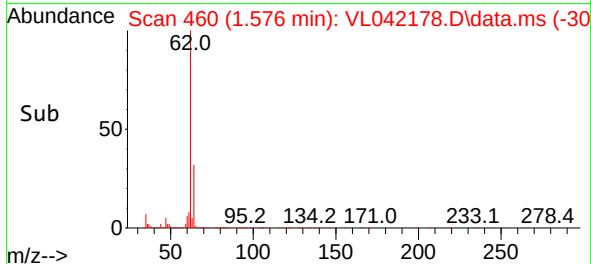
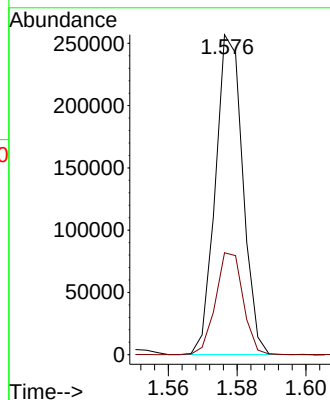
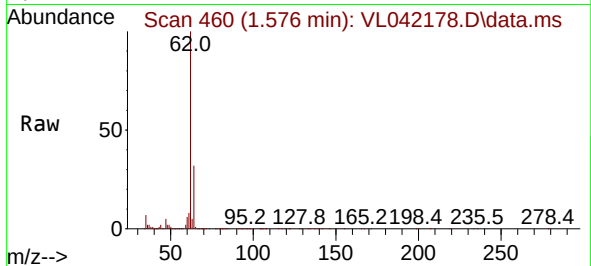




#5  
 Vinyl Chloride  
 Concen: 13.304 ppbv  
 RT: 1.576 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

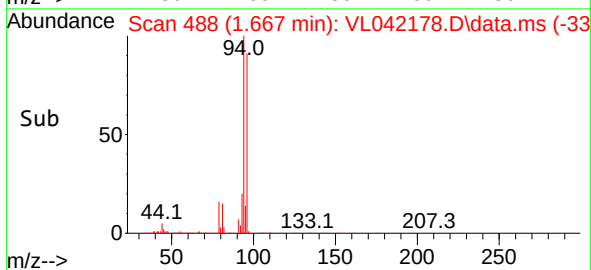
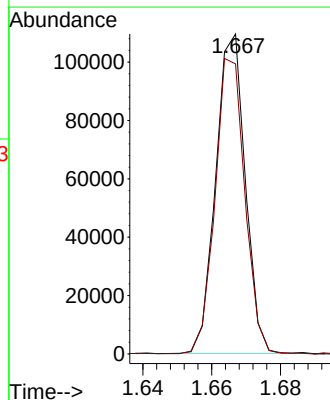
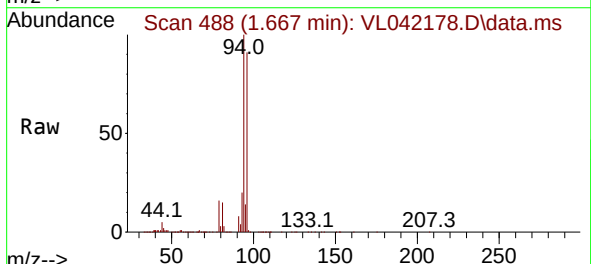
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

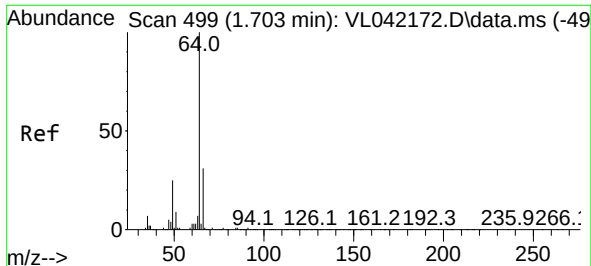
Tgt Ion: 62 Resp: 141938  
 Ion Ratio Lower Upper  
 62 100  
 64 31.9 26.6 40.0



#6  
 Bromomethane  
 Concen: 13.734 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. 0.003 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

Tgt Ion: 94 Resp: 65113  
 Ion Ratio Lower Upper  
 94 100  
 96 90.7 73.1 109.7

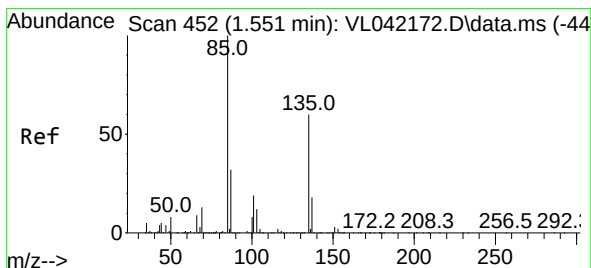
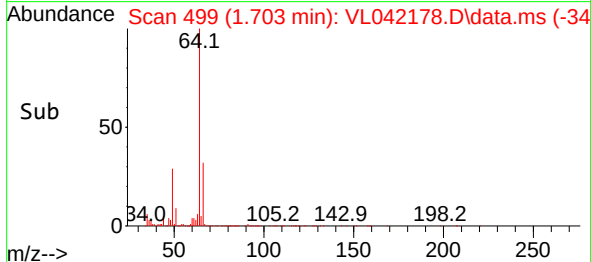
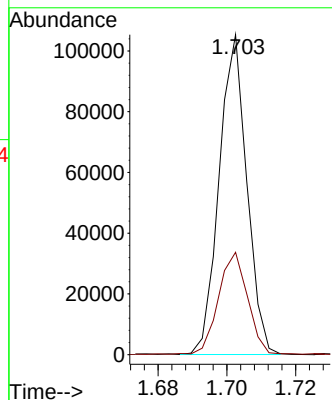
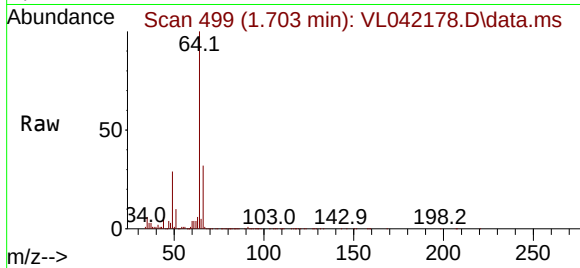




#7  
Chloroethane  
Concen: 14.007 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

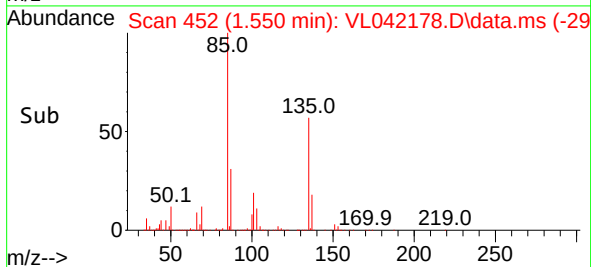
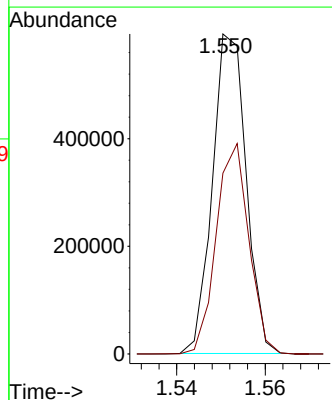
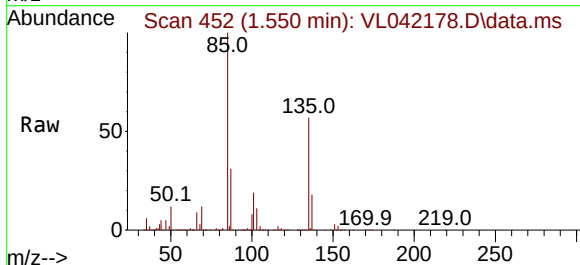
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

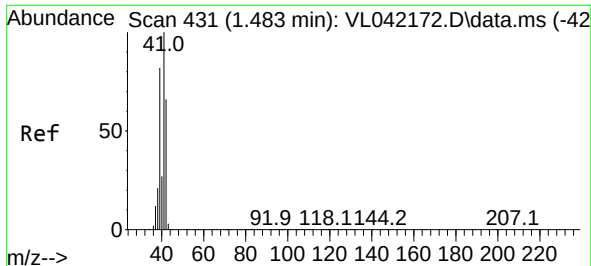
Tgt Ion: 64 Resp: 58820  
Ion Ratio Lower Upper  
64 100  
66 32.0 25.2 37.8



#8  
Dichlorotetrafluoroethane  
Concen: 14.442 ppbv  
RT: 1.550 min Scan# 452  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 85 Resp: 314834  
Ion Ratio Lower Upper  
85 100  
135 63.8 52.4 78.6

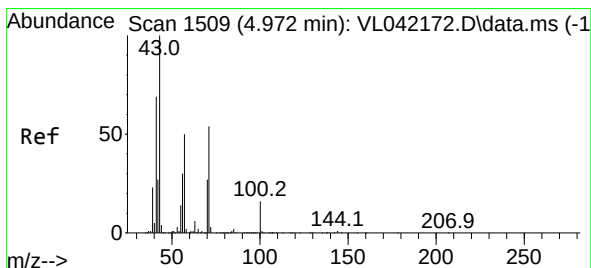
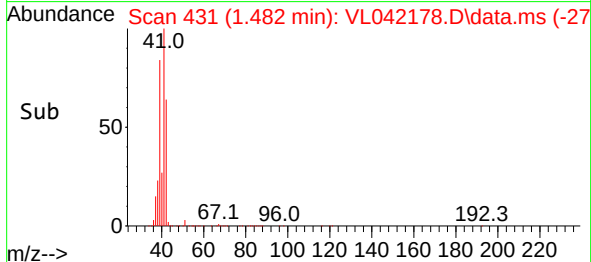
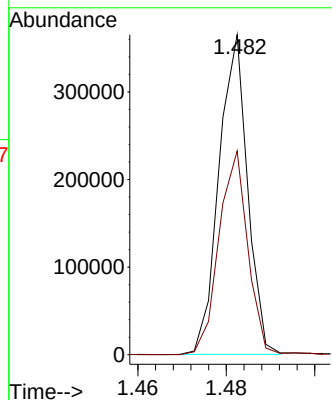
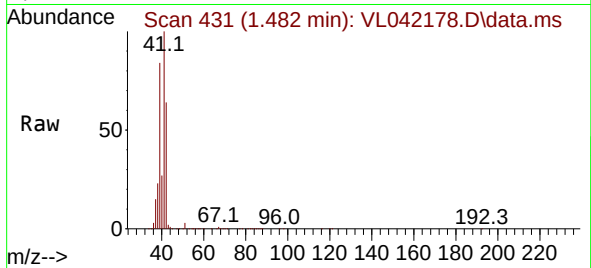




#9  
Propene  
Concen: 13.902 ppbv  
RT: 1.482 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

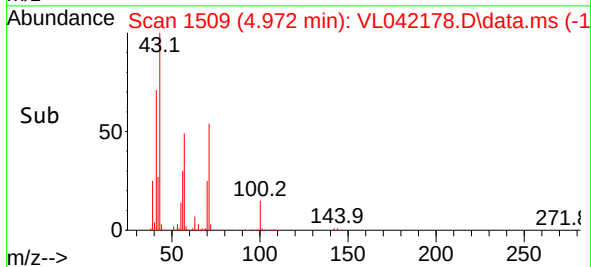
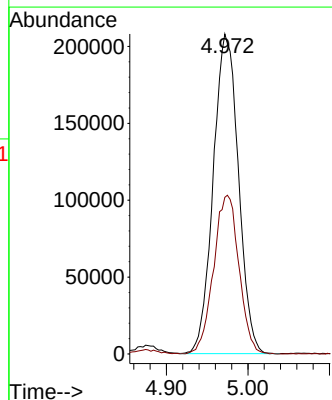
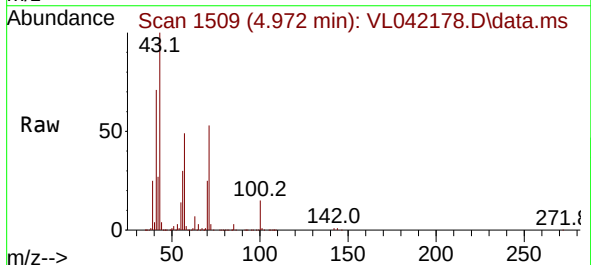
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

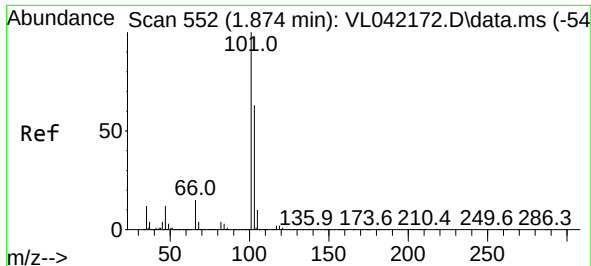
Tgt Ion: 41 Resp: 163799  
Ion Ratio Lower Upper  
41 100  
42 65.3 55.4 83.2



#10  
Heptane  
Concen: 14.019 ppbv  
RT: 4.972 min Scan# 1509  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 446949  
Ion Ratio Lower Upper  
43 100  
57 49.9 39.4 59.2

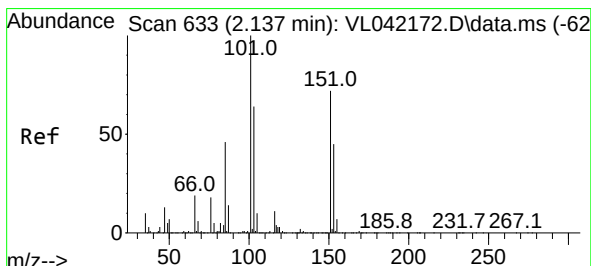
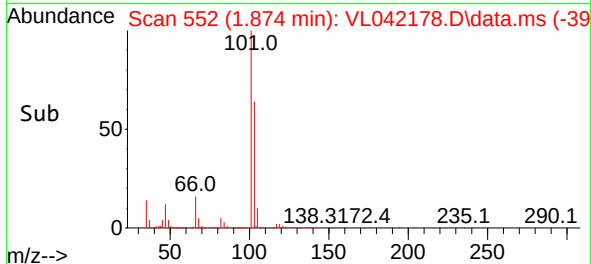
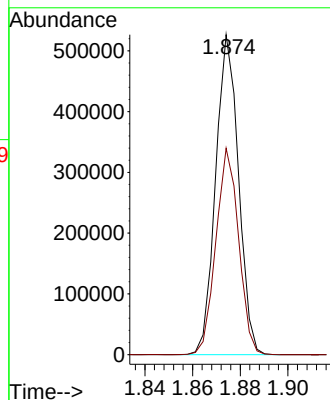
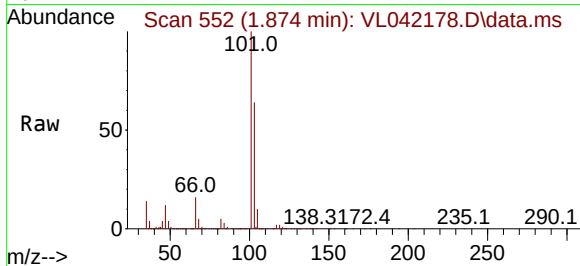




#11  
 Trichlorofluoromethane  
 Concen: 14.050 ppbv  
 RT: 1.874 min Scan# 511  
 Delta R.T. -0.000 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

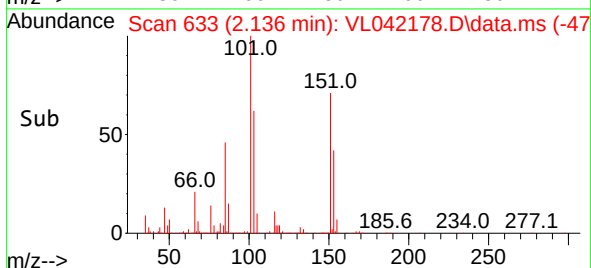
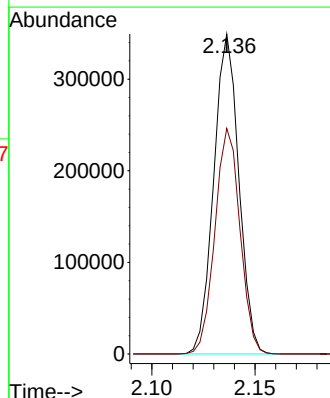
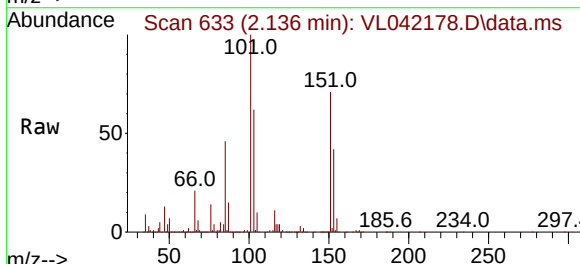
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

Tgt Ion:101 Resp: 349967  
 Ion Ratio Lower Upper  
 101 100  
 103 64.5 50.2 75.2

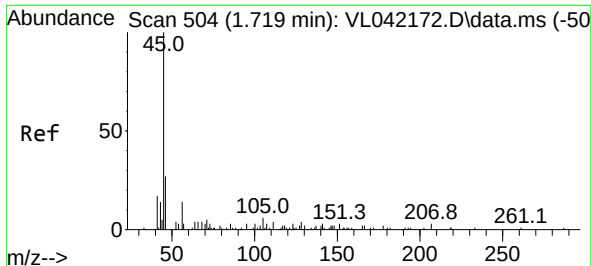


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 14.419 ppbv  
 RT: 2.136 min Scan# 633  
 Delta R.T. -0.000 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

Tgt Ion:101 Resp: 295217  
 Ion Ratio Lower Upper  
 101 100  
 151 70.4 57.1 85.7







#13

Ethanol

Concen: 8.001 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA\_L

ClientSampleId :

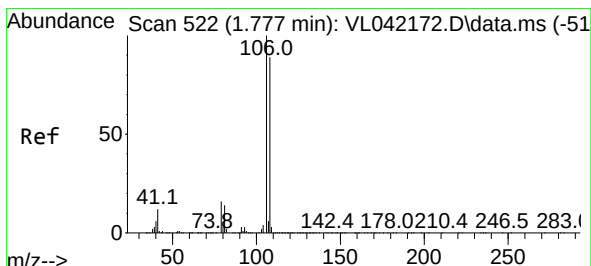
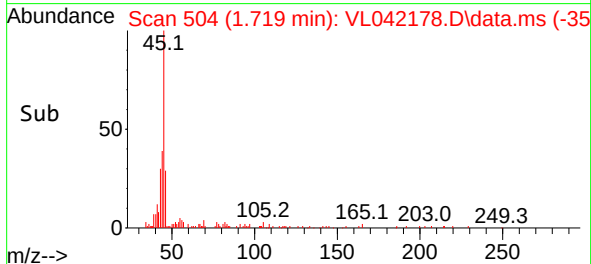
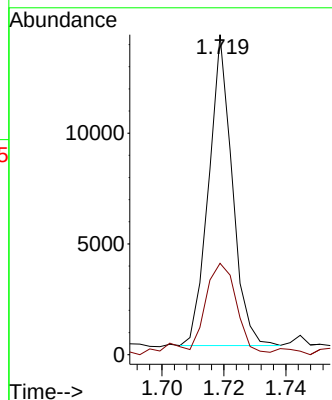
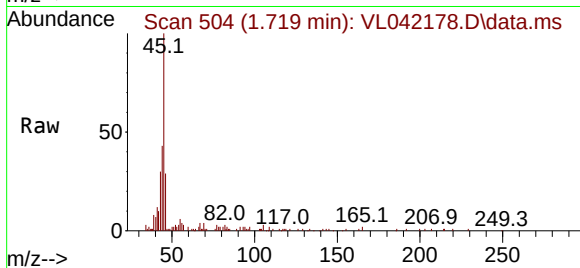
VSTDIC015

Tgt Ion: 45 Resp: 7382

Ion Ratio Lower Upper

45 100

46 44.6 20.2 80.8



#14

Bromoethene

Concen: 13.571 ppbv

RT: 1.780 min Scan# 523

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

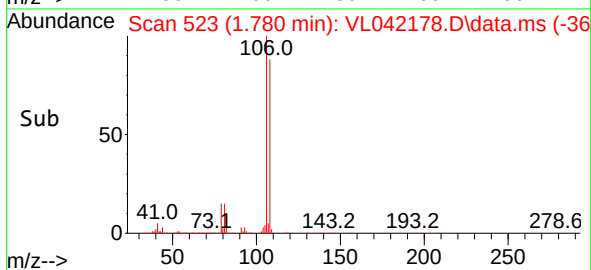
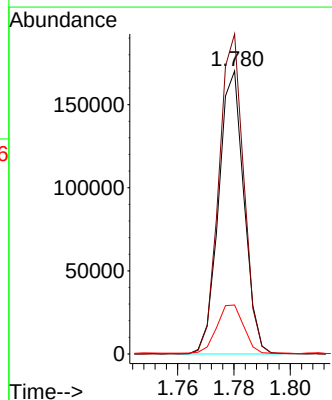
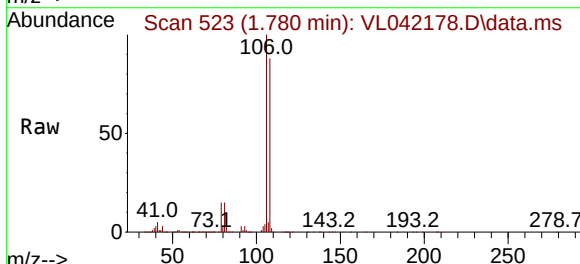
Tgt Ion: 108 Resp: 106436

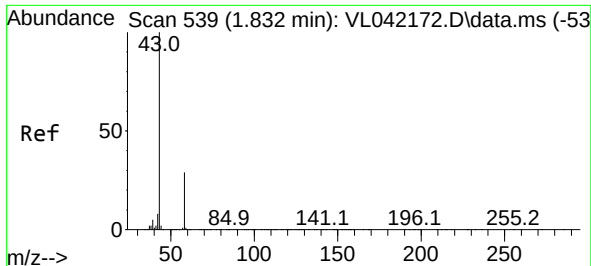
Ion Ratio Lower Upper

108 100

106 110.9 86.8 130.2

79 18.8 15.0 22.6

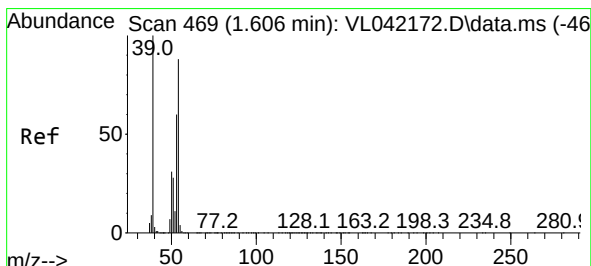
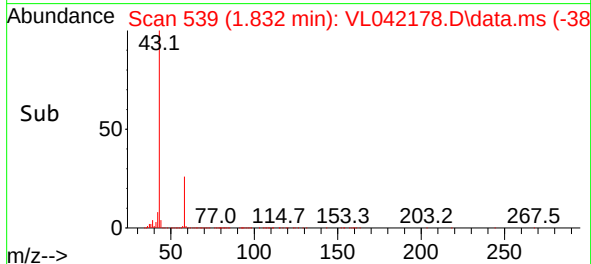
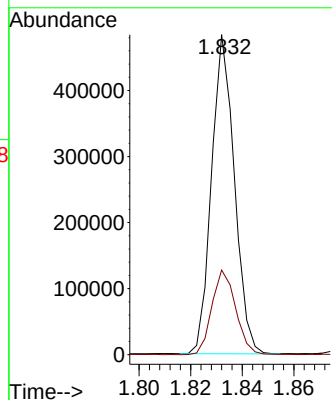
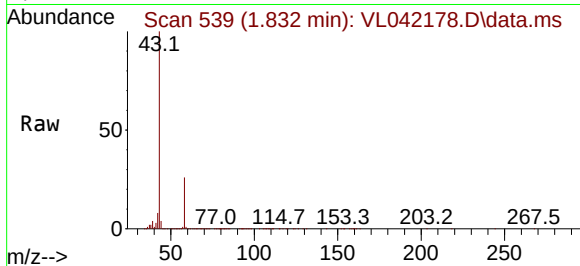




#15  
Acetone  
Concen: 12.218 ppbv  
RT: 1.832 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

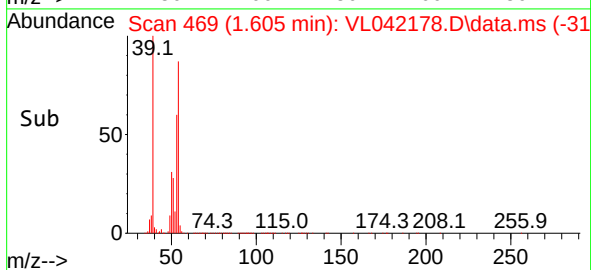
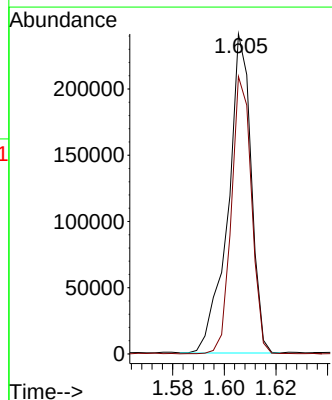
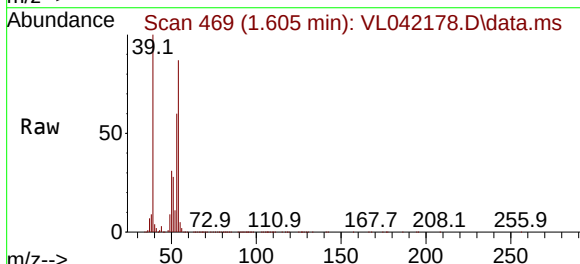
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

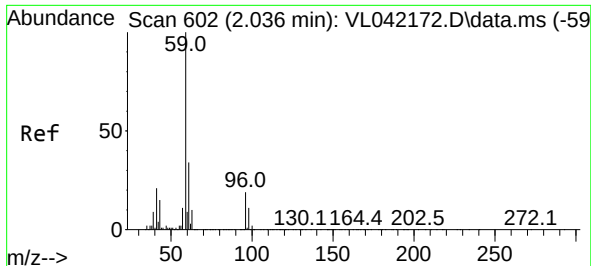
Tgt Ion: 43 Resp: 296254  
Ion Ratio Lower Upper  
43 100  
58 27.7 23.2 34.8



#16  
1,3-Butadiene  
Concen: 13.766 ppbv  
RT: 1.605 min Scan# 469  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 39 Resp: 150122  
Ion Ratio Lower Upper  
39 100  
54 76.3 60.7 91.1





#17

tert-Butyl alcohol

Concen: 13.787 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA\_L

ClientSampleId :

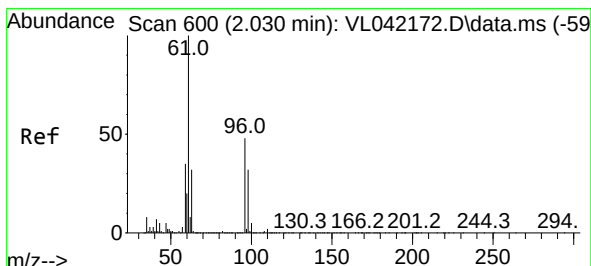
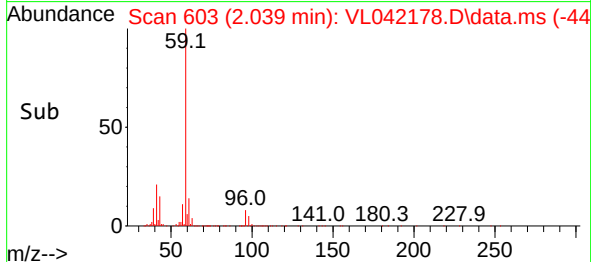
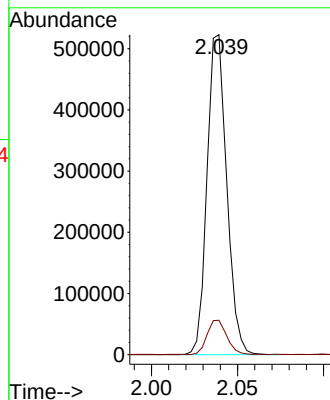
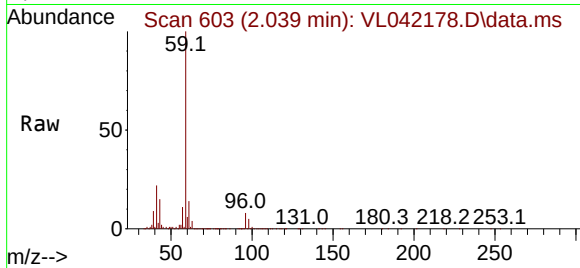
VSTDIC015

Tgt Ion: 59 Resp: 416362

Ion Ratio Lower Upper

59 100

57 10.8 8.9 13.3



#18

1,1-Dichloroethene

Concen: 13.762 ppbv

RT: 2.029 min Scan# 600

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

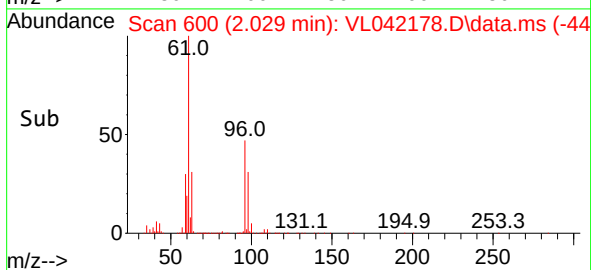
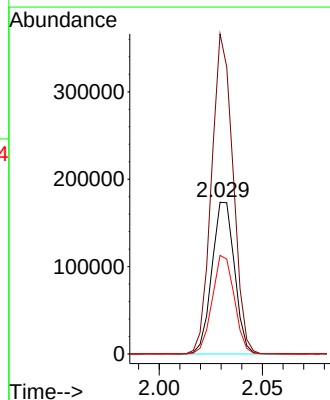
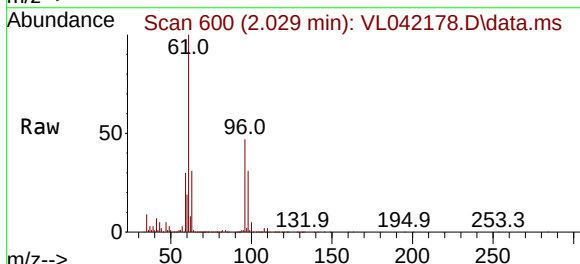
Tgt Ion: 96 Resp: 131720

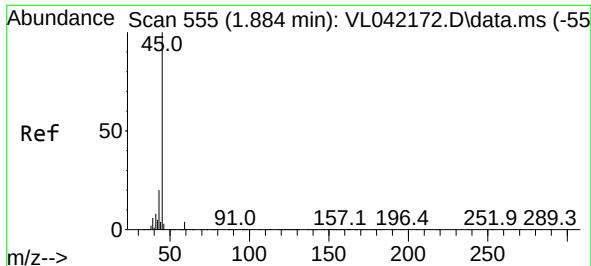
Ion Ratio Lower Upper

96 100

61 211.1 167.6 251.4

98 64.9 53.5 80.3

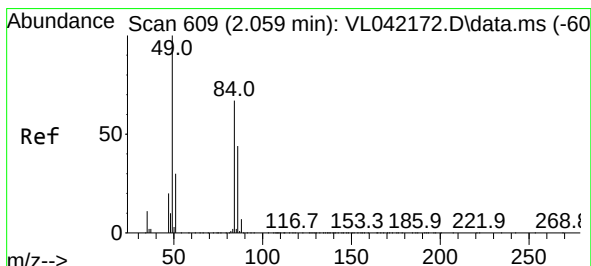
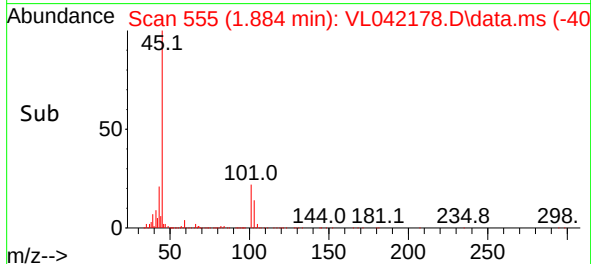
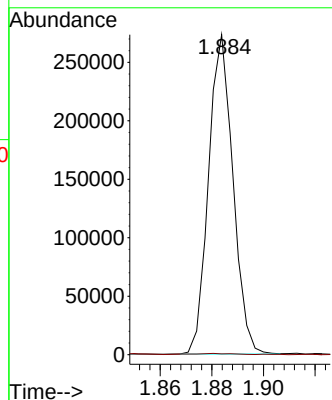
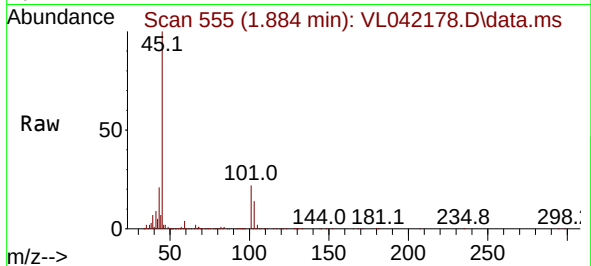




#19  
Isopropyl Alcohol  
Concen: 13.093 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

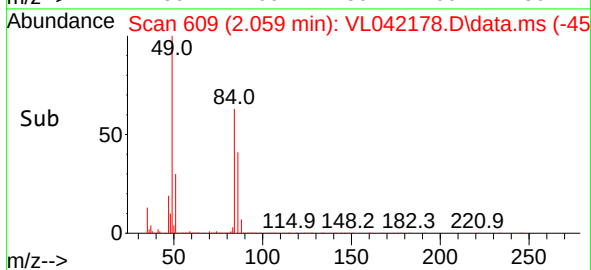
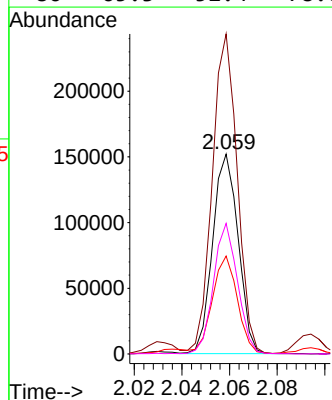
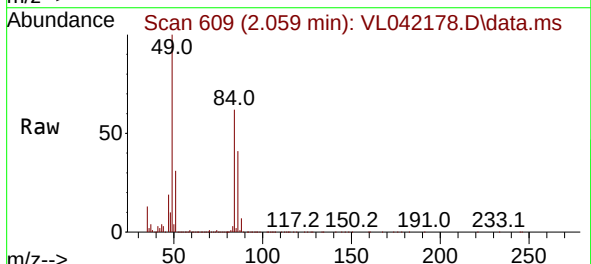
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

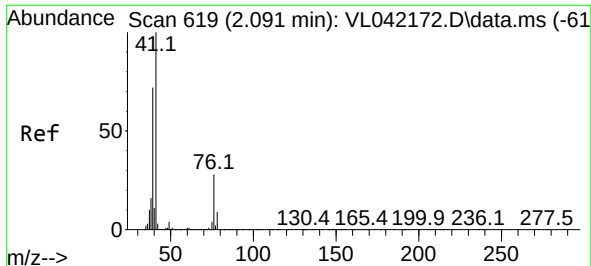
Tgt Ion: 45 Resp: 179117  
Ion Ratio Lower Upper  
45 100  
58 46.4 36.9 55.3



#20  
Methylene Chloride  
Concen: 12.533 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 84 Resp: 113183  
Ion Ratio Lower Upper  
84 100  
49 159.7 120.2 180.4  
51 48.7 37.4 56.0  
86 65.3 52.4 78.6

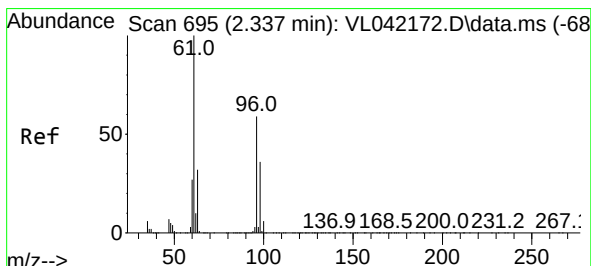
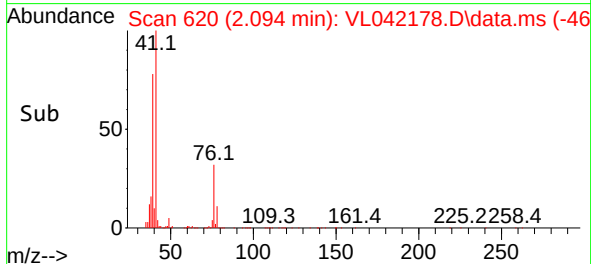
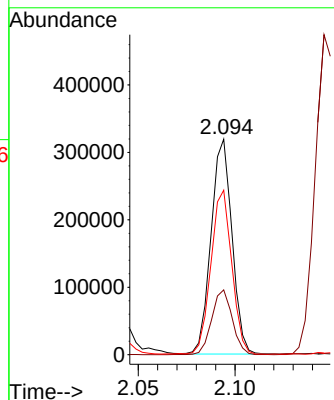
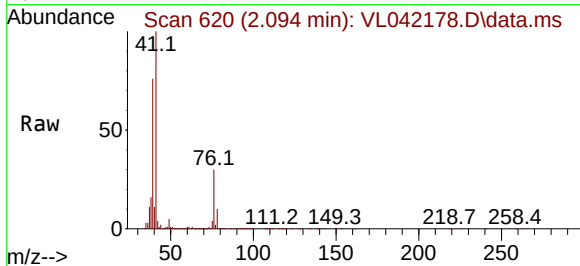




#21  
 Allyl Chloride  
 Concen: 14.002 ppbv  
 RT: 2.094 min Scan# 619  
 Delta R.T. 0.003 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

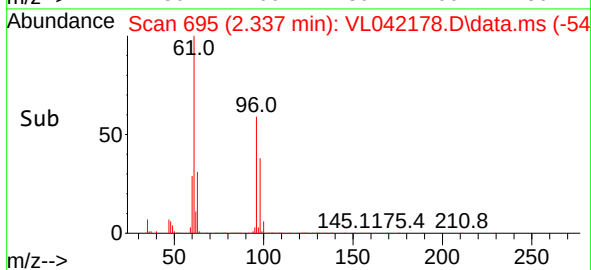
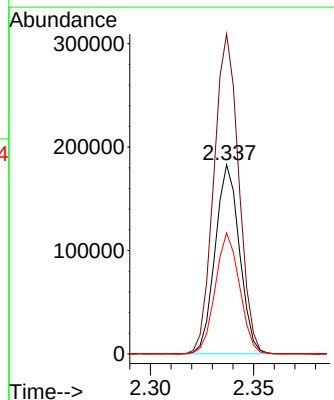
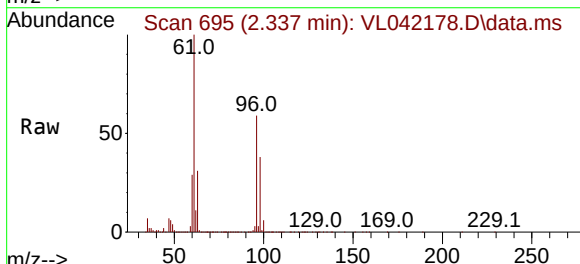
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

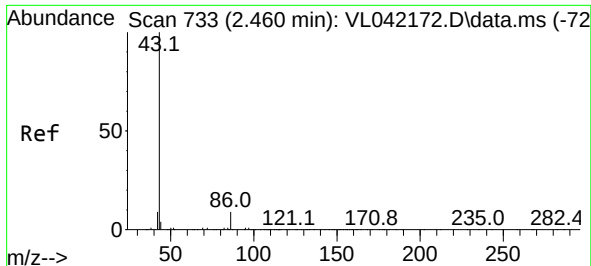
Tgt Ion: 41 Resp: 239440  
 Ion Ratio Lower Upper  
 41 100  
 76 29.5 24.1 36.1  
 39 76.1 61.1 91.7



#22  
 trans-1,2-Dichloroethene  
 Concen: 13.362 ppbv  
 RT: 2.337 min Scan# 695  
 Delta R.T. -0.000 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

Tgt Ion: 96 Resp: 149455  
 Ion Ratio Lower Upper  
 96 100  
 61 169.2 136.6 204.8  
 98 63.9 49.4 74.2

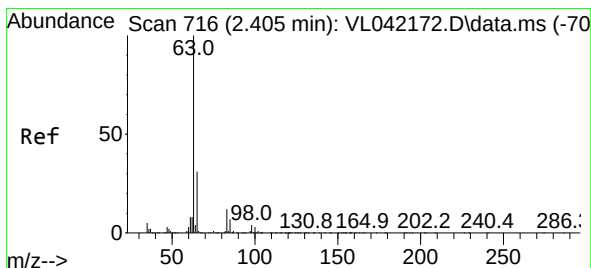
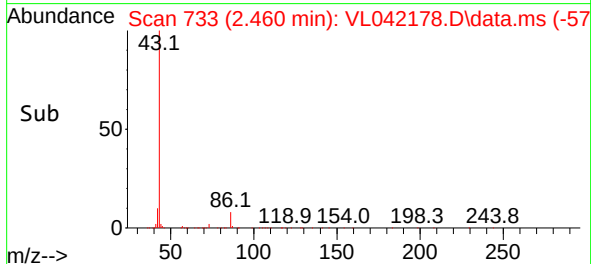
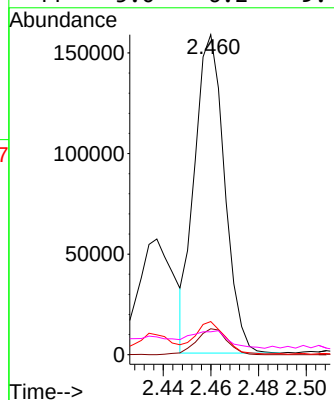
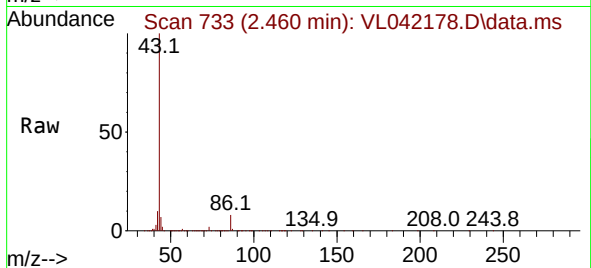




#23  
 Vinyl Acetate  
 Concen: 13.736 ppbv  
 RT: 2.460 min Scan# 716  
 Delta R.T. -0.000 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

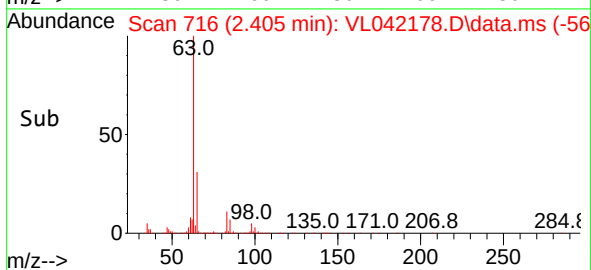
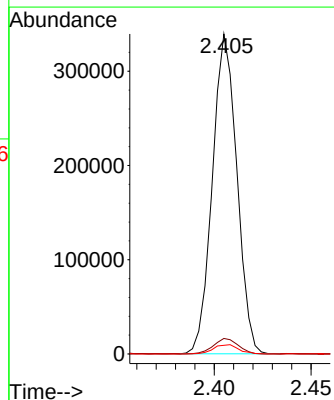
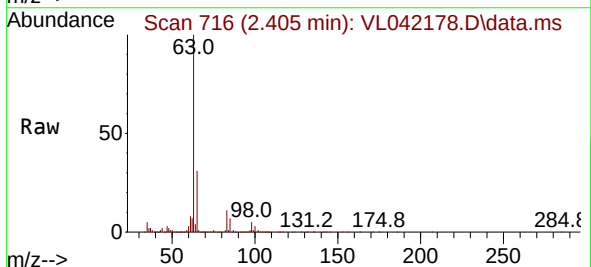
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

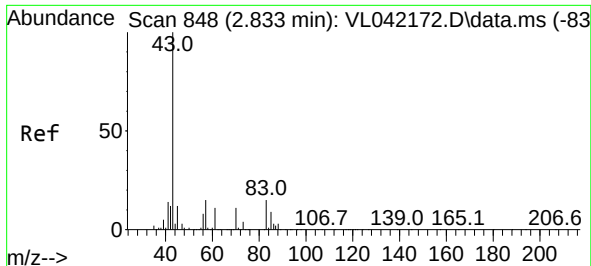
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 138419 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 8.1   | 5.5   | 8.3    |
| 42       | 10.1  | 8.6   | 13.0   |
| 44       | 5.0   | 6.2   | 9.4    |



#24  
 1,1-Dichloroethane  
 Concen: 14.570 ppbv  
 RT: 2.405 min Scan# 716  
 Delta R.T. -0.000 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 298760 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 4.9   | 2.3   | 6.8    |
| 100      | 2.7   | 1.6   | 4.7    |

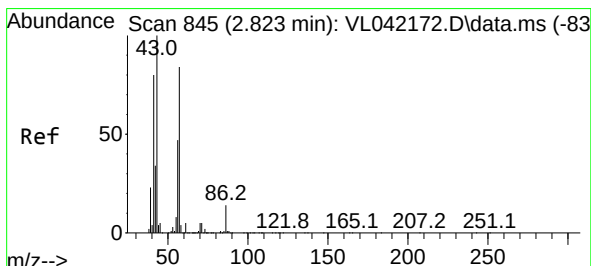
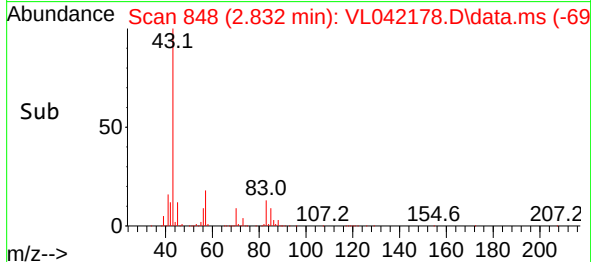
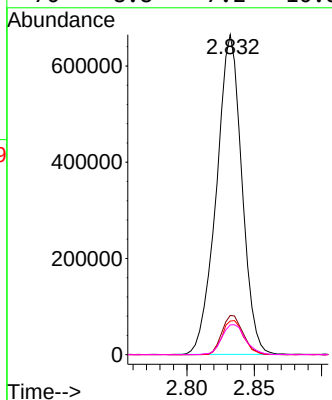
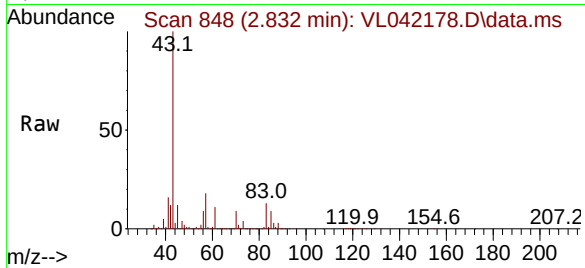




#25  
Ethyl Acetate  
Concen: 13.855 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

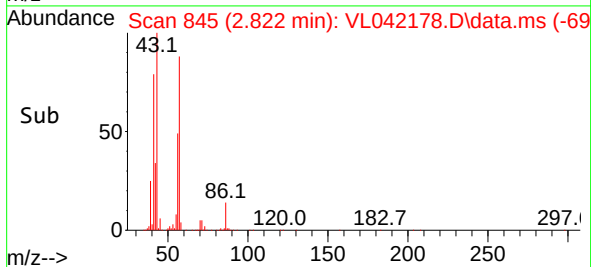
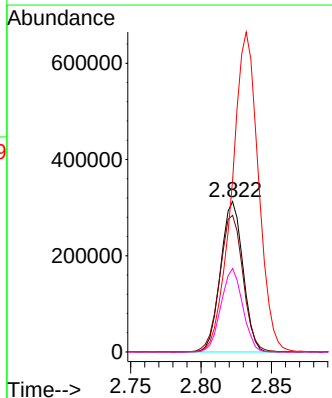
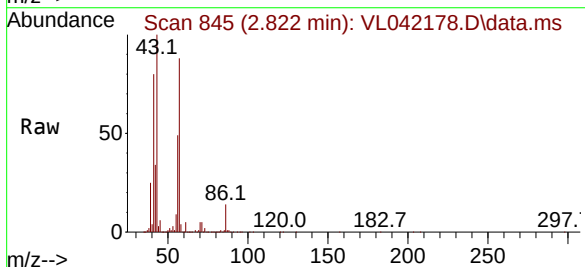
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

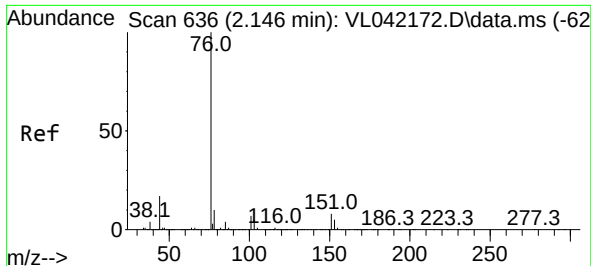
| Tgt Ion: | 43    | Resp: | 871882 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 10.3  | 8.2   | 12.2   |
| 61       | 9.0   | 7.3   | 10.9   |
| 70       | 8.8   | 7.2   | 10.8   |



#26  
Hexane  
Concen: 14.178 ppbv  
RT: 2.822 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

| Tgt Ion: | 57    | Resp: | 344636 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 96.1  | 76.6  | 114.8  |
| 43       | 254.0 | 207.8 | 311.8  |
| 56       | 53.9  | 43.6  | 65.4   |

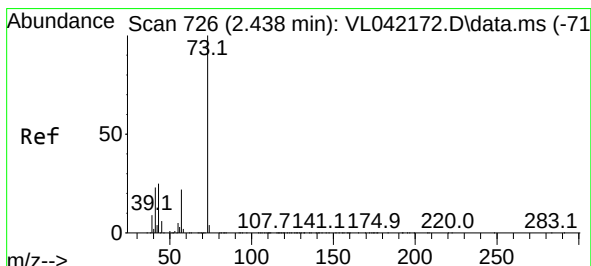
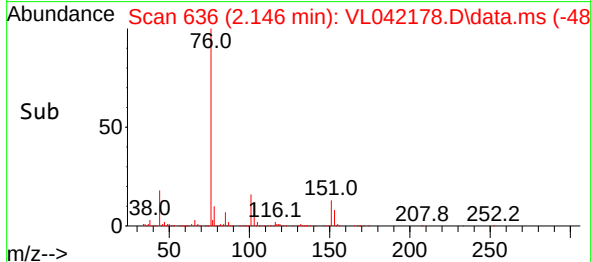
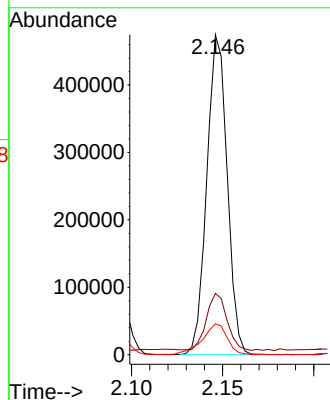
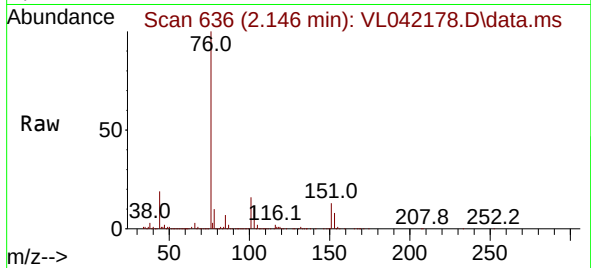




#27  
Carbon Disulfide  
Concen: 14.196 ppbv  
RT: 2.146 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

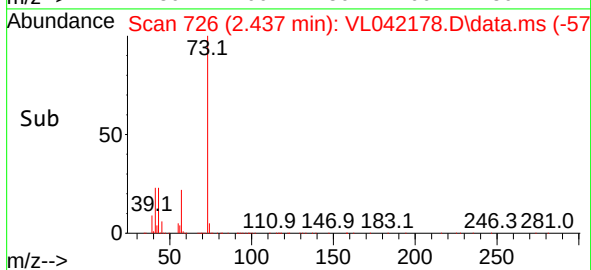
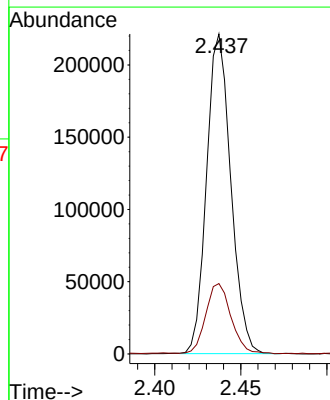
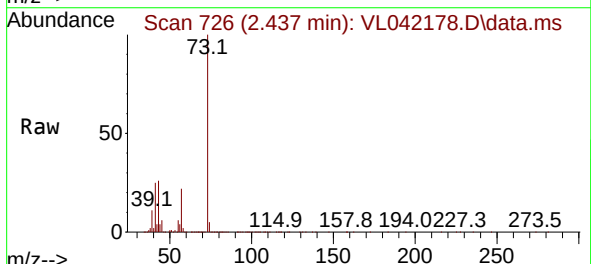
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

Tgt Ion: 76 Resp: 370022  
Ion Ratio Lower Upper  
76 100  
44 20.3 14.7 22.1  
78 11.7 9.3 13.9

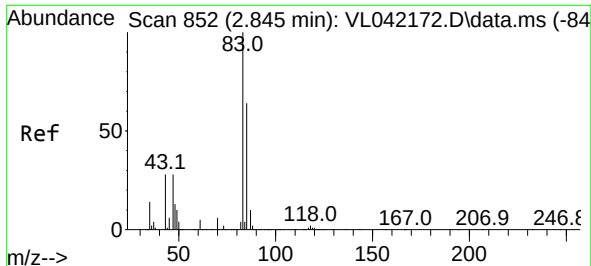


#28  
Methyl tert-Butyl Ether  
Concen: 14.303 ppbv  
RT: 2.437 min Scan# 726  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 73 Resp: 216463  
Ion Ratio Lower Upper  
73 100  
57 23.2 20.5 30.7







#29

Chloroform

Concen: 14.297 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA\_1

ClientSampleId :

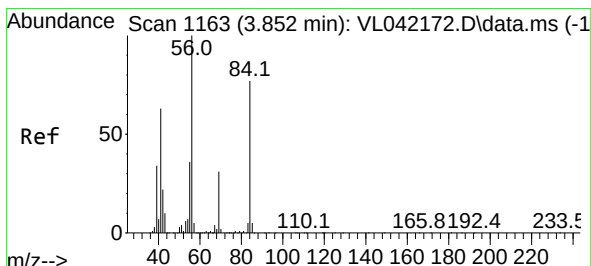
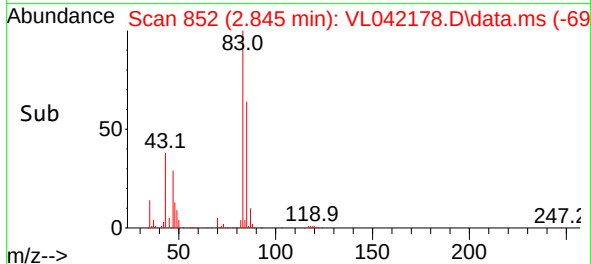
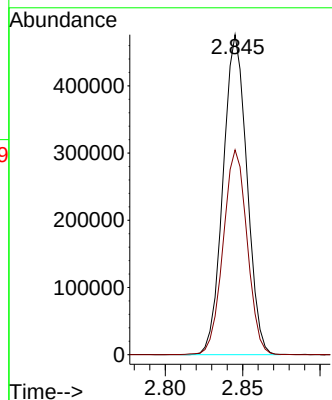
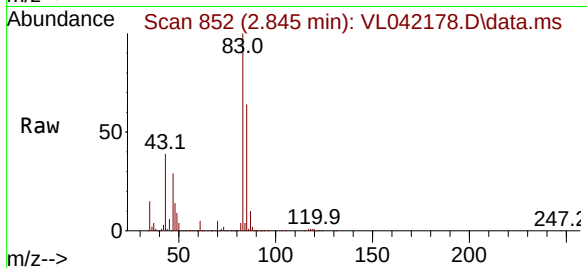
VSTDIC015

Tgt Ion: 83 Resp: 508614

Ion Ratio Lower Upper

83 100

85 64.0 51.4 77.2



#30

Cyclohexane

Concen: 14.040 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

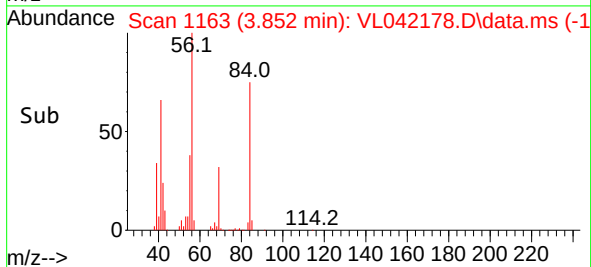
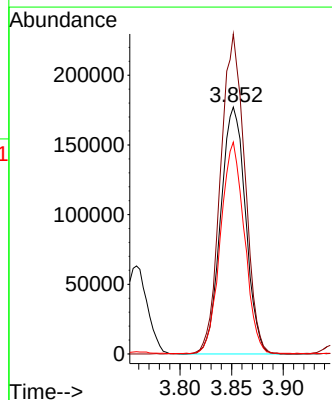
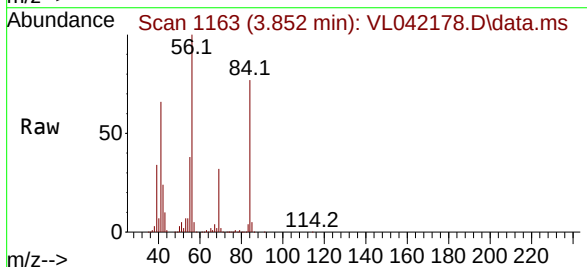
Tgt Ion: 84 Resp: 296458

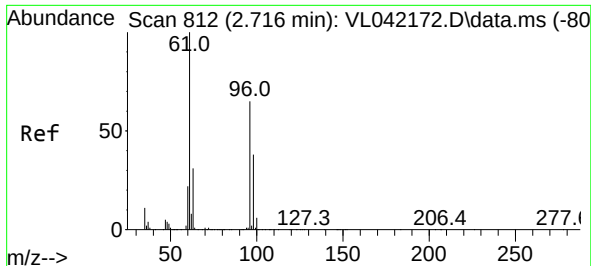
Ion Ratio Lower Upper

84 100

56 126.7 102.8 154.2

41 82.6 66.5 99.7

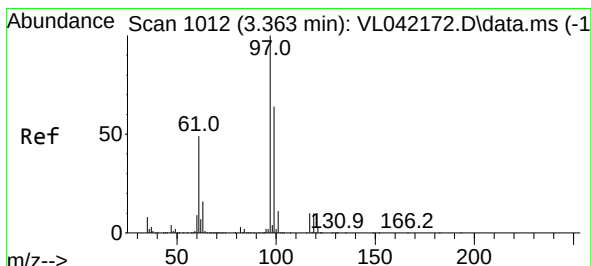
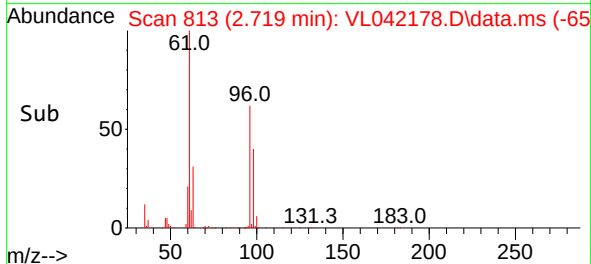
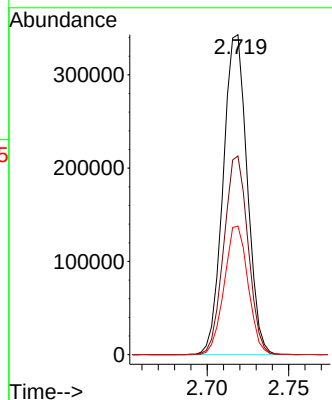
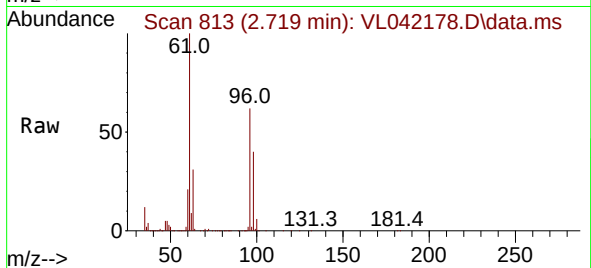




#31  
 cis-1,2-Dichloroethene  
 Concen: 14.262 ppbv  
 RT: 2.719 min Scan# 812  
 Delta R.T. 0.003 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

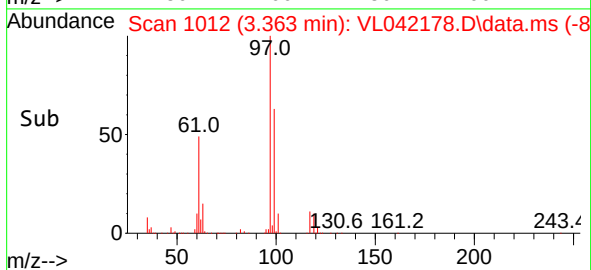
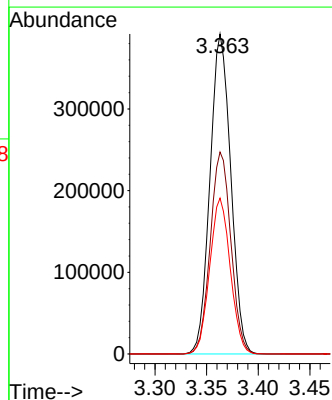
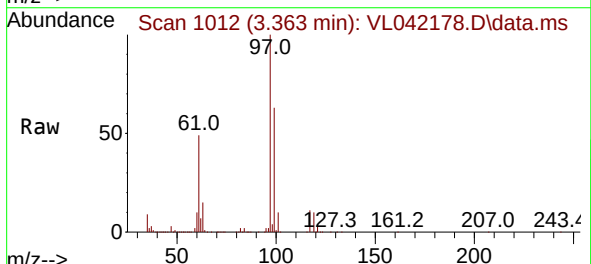
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

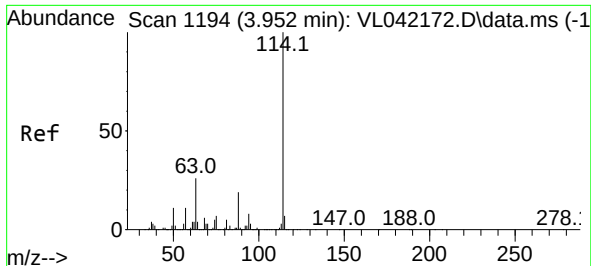
Tgt Ion: 61 Resp: 351945  
 Ion Ratio Lower Upper  
 61 100  
 96 62.1 51.8 77.8  
 98 40.2 30.6 46.0



#32  
 1,1,1-Trichloroethane  
 Concen: 13.448 ppbv  
 RT: 3.363 min Scan# 1012  
 Delta R.T. -0.000 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

Tgt Ion: 97 Resp: 547329  
 Ion Ratio Lower Upper  
 97 100  
 99 62.8 51.5 77.3  
 61 48.4 38.7 58.1

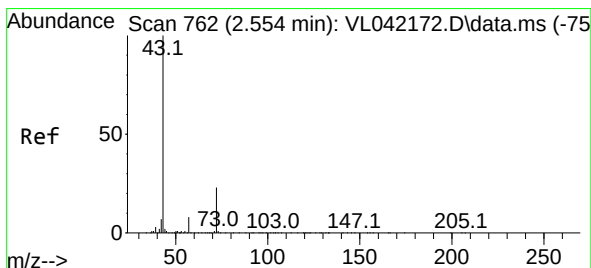
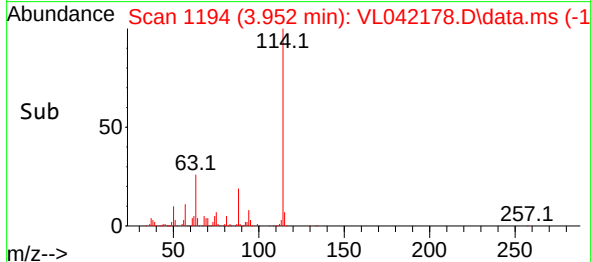
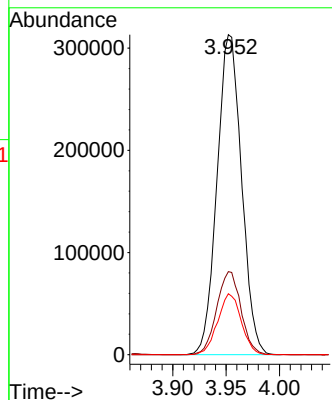
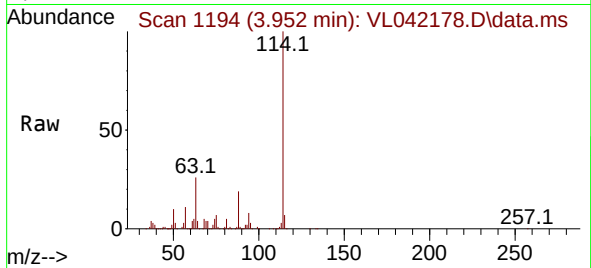




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.952 min Scan# 1194  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

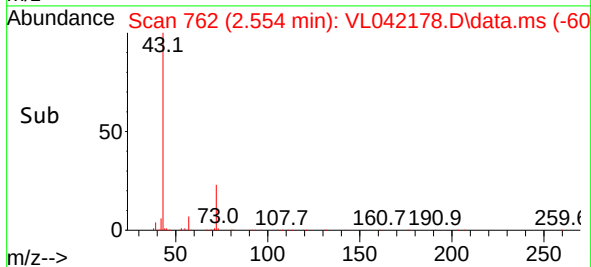
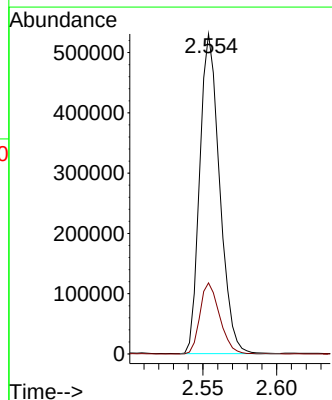
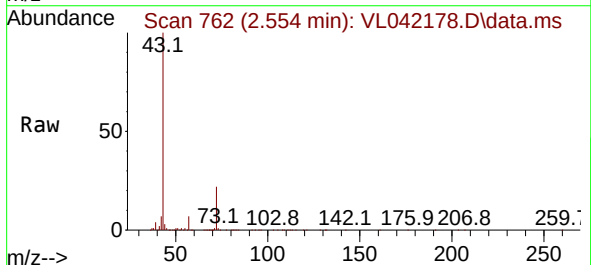
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

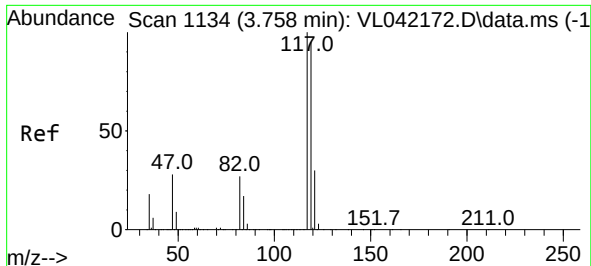
Tgt Ion:114 Resp: 499360  
Ion Ratio Lower Upper  
114 100  
63 25.7 20.7 31.1  
88 18.4 15.0 22.4



#34  
2-Butanone  
Concen: 13.726 ppbv  
RT: 2.554 min Scan# 762  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 497020  
Ion Ratio Lower Upper  
43 100  
72 22.0 18.2 27.2

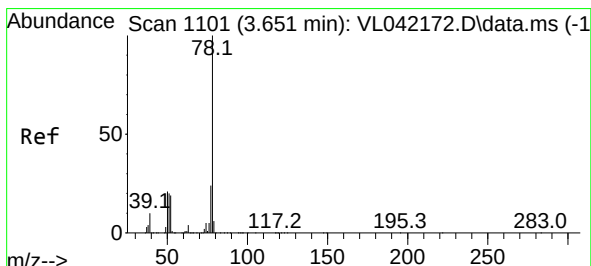
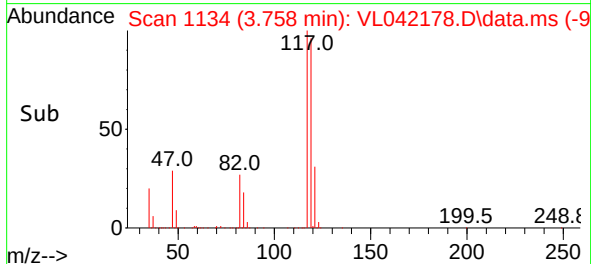
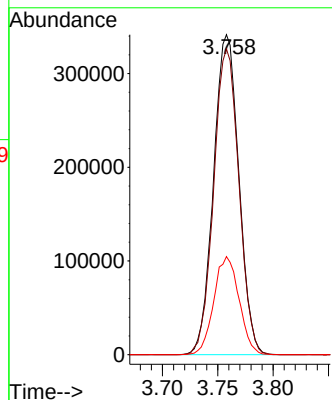
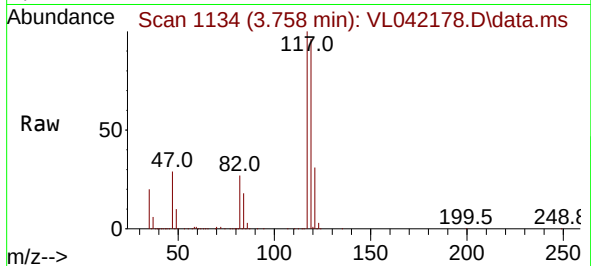




#35  
Carbon Tetrachloride  
Concen: 14.140 ppbv  
RT: 3.758 min Scan# 1134  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

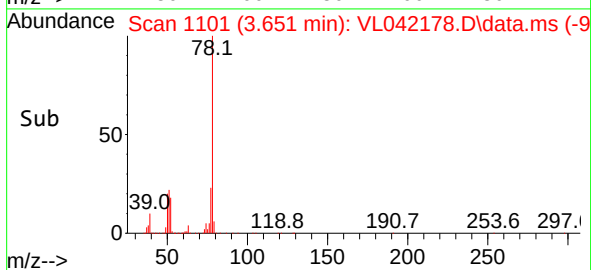
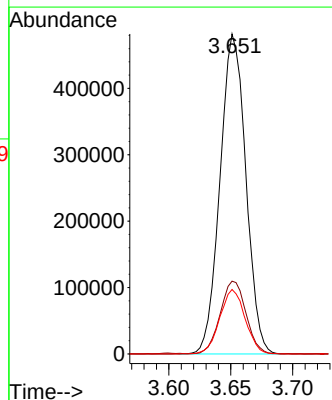
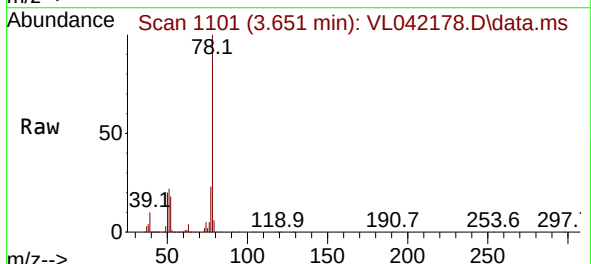
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

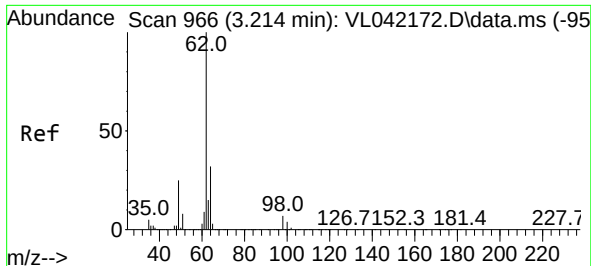
Tgt Ion:117 Resp: 543385  
Ion Ratio Lower Upper  
117 100  
119 95.5 76.2 114.2  
121 30.6 24.2 36.4



#36  
Benzene  
Concen: 14.131 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 78 Resp: 699549  
Ion Ratio Lower Upper  
78 100  
77 22.7 19.1 28.7  
50 20.1 16.6 24.8

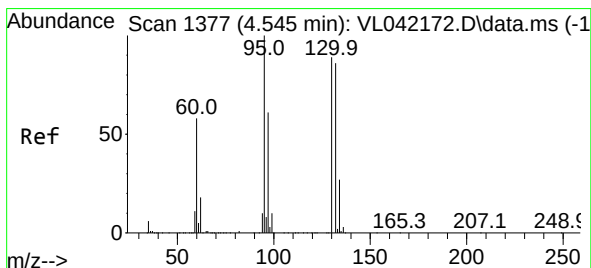
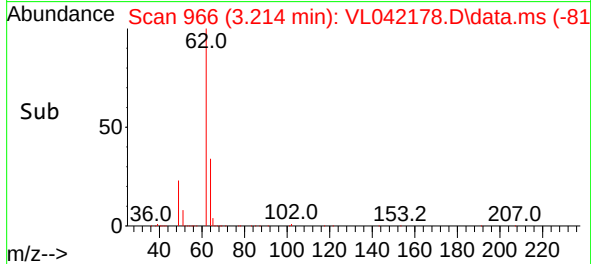
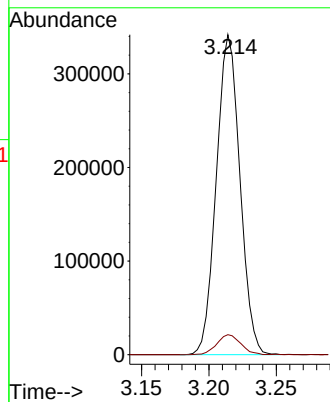
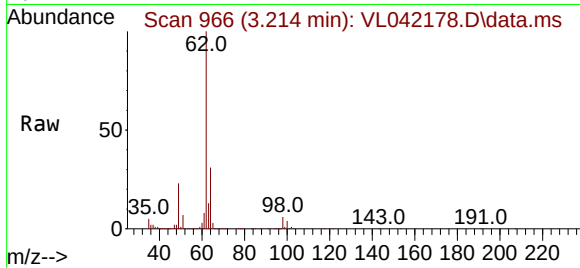




#37  
1,2-Dichloroethane  
Concen: 14.697 ppbv  
RT: 3.214 min Scan# 90  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

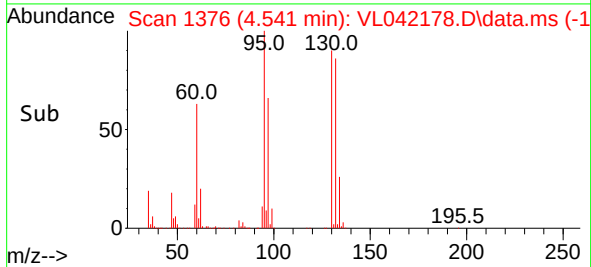
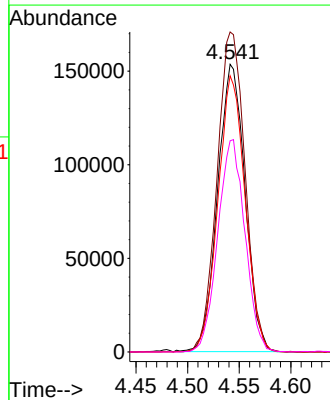
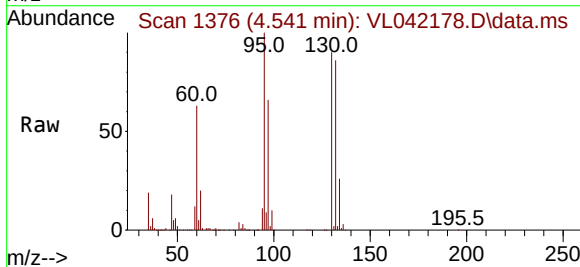
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

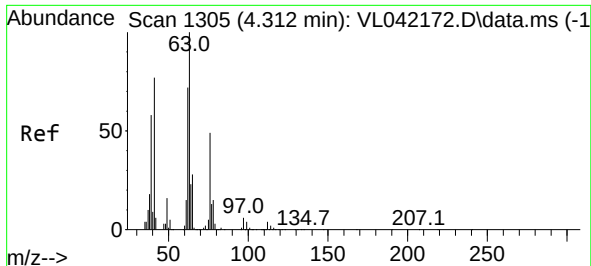
Tgt Ion: 62 Resp: 416544  
Ion Ratio Lower Upper  
62 100  
98 6.4 5.4 8.2



#38  
Trichloroethene  
Concen: 13.715 ppbv  
RT: 4.541 min Scan# 1376  
Delta R.T. -0.004 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion:130 Resp: 283430  
Ion Ratio Lower Upper  
130 100  
95 111.3 89.8 134.8  
132 96.0 77.4 116.2  
97 73.5 55.1 82.7





#39

1,2-Dichloropropane

Concen: 14.304 ppbv

RT: 4.308 min Scan# 1

Delta R.T. -0.004 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

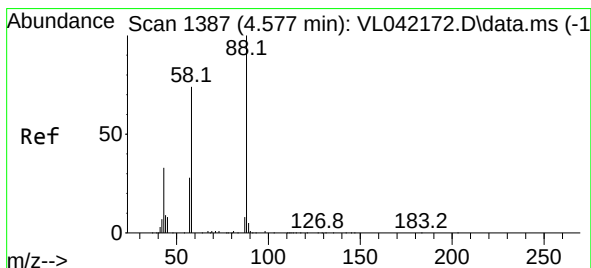
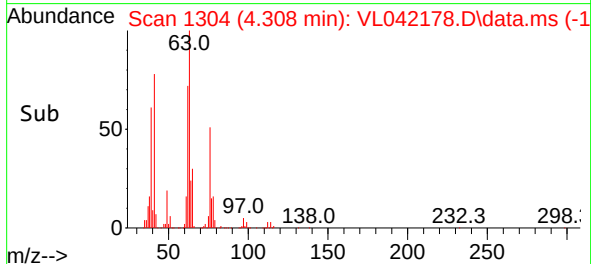
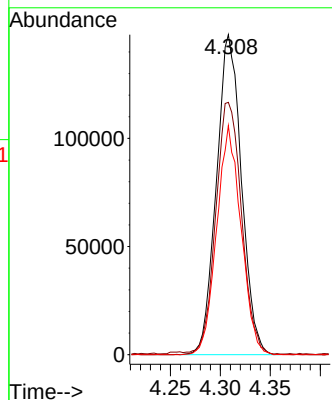
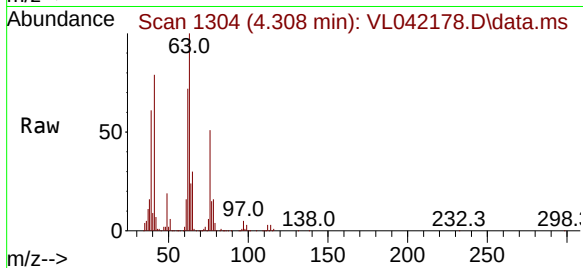
Tgt Ion: 63 Resp: 257891

Ion Ratio Lower Upper

63 100

41 78.7 61.7 92.5

62 71.6 57.6 86.4



#40

1,4-Dioxane

Concen: 13.354 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Tgt Ion: 88 Resp: 124925

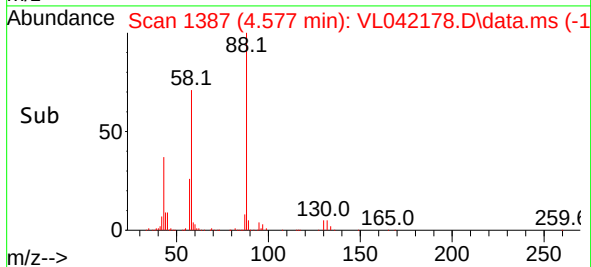
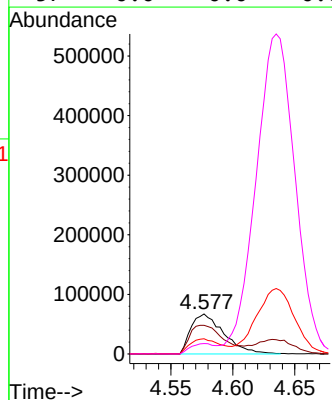
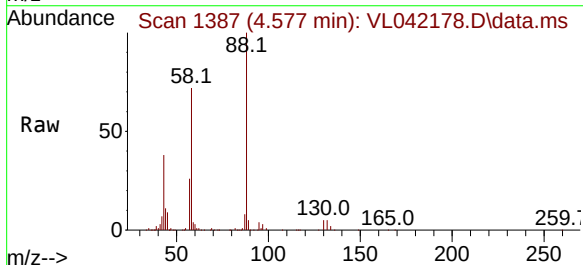
Ion Ratio Lower Upper

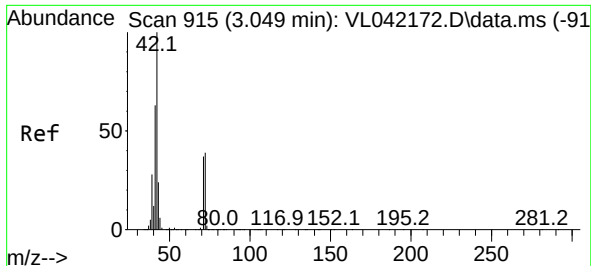
88 100

58 69.6 62.7 94.1

43 31.6 23.0 34.4

57 0.0 0.0 0.0

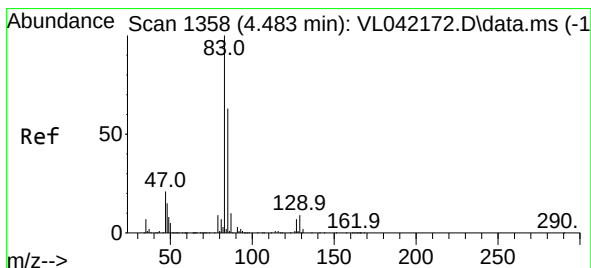
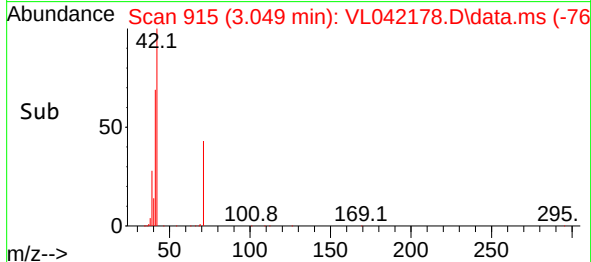
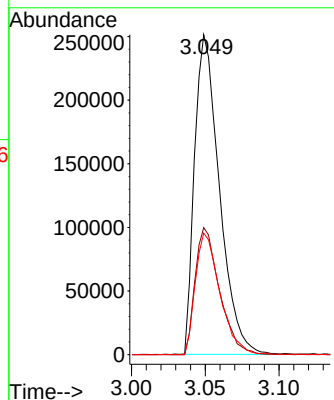
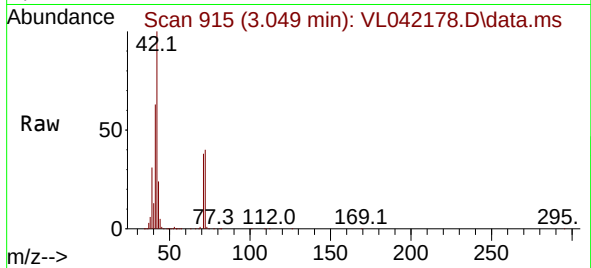




#41  
Tetrahydrofuran  
Concen: 14.301 ppbv  
RT: 3.049 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

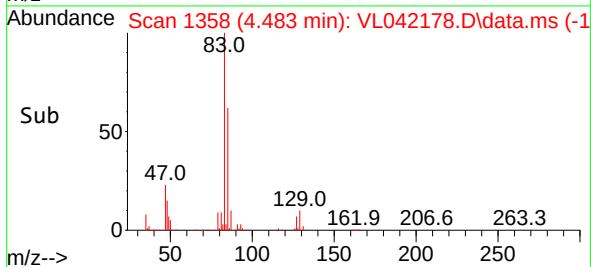
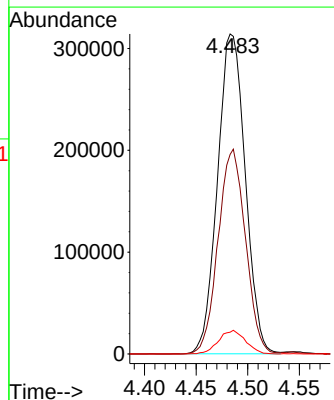
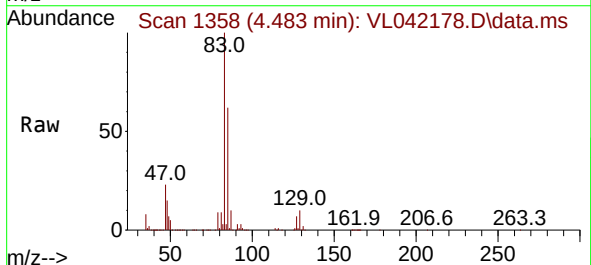
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

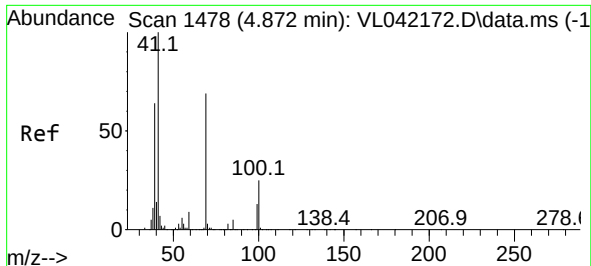
Tgt Ion: 42 Resp: 294634  
Ion Ratio Lower Upper  
42 100  
72 39.0 31.4 47.0  
71 37.9 30.2 45.4



#42  
Bromodichloromethane  
Concen: 15.043 ppbv  
RT: 4.483 min Scan# 1358  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 83 Resp: 587772  
Ion Ratio Lower Upper  
83 100  
85 62.4 50.5 75.7  
127 6.8 5.9 8.9

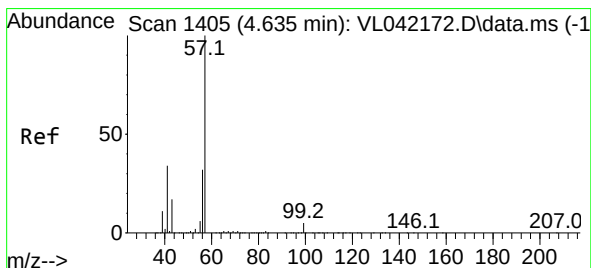
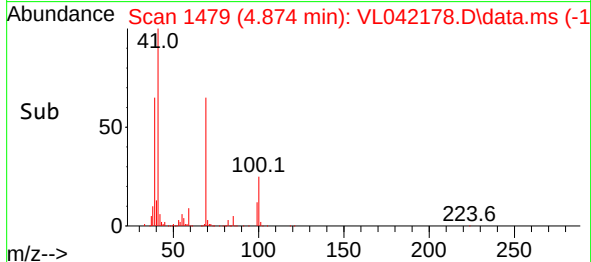
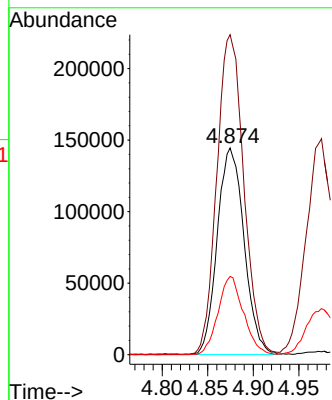
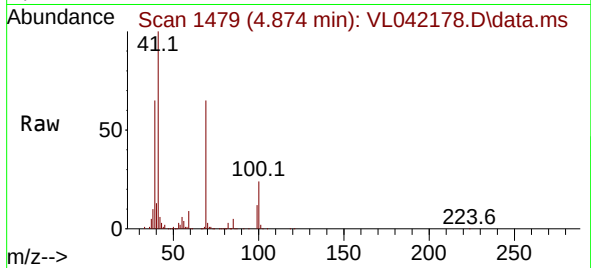




#43  
Methyl Methacrylate  
Concen: 14.130 ppbv  
RT: 4.874 min Scan# 1478  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

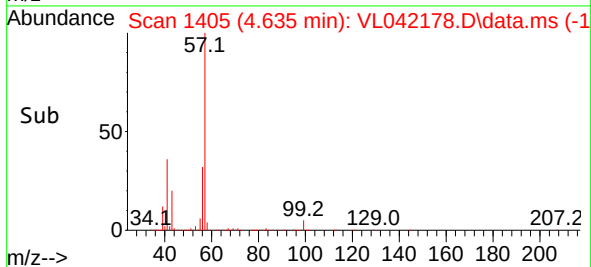
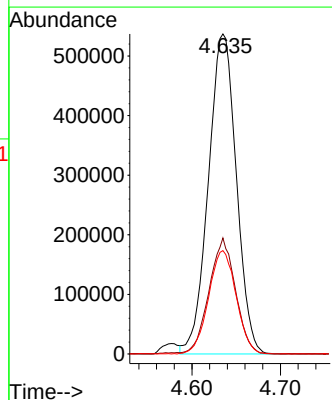
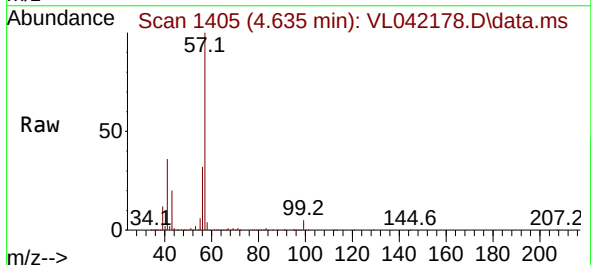
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

Tgt Ion: 69 Resp: 295300  
Ion Ratio Lower Upper  
69 100  
41 155.4 123.8 185.6  
100 36.0 28.4 42.6

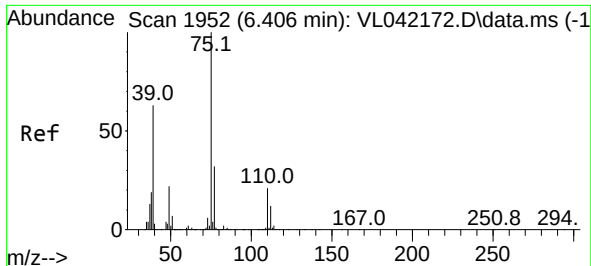


#44  
2,2,4-Trimethylpentane  
Concen: 14.108 ppbv  
RT: 4.635 min Scan# 1405  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 57 Resp: 1180275  
Ion Ratio Lower Upper  
57 100  
41 34.2 26.8 40.2  
56 31.9 25.6 38.4







#45

t-1,3-Dichloropropene

Concen: 14.649 ppbv

RT: 6.405 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA\_1

ClientSampleId :

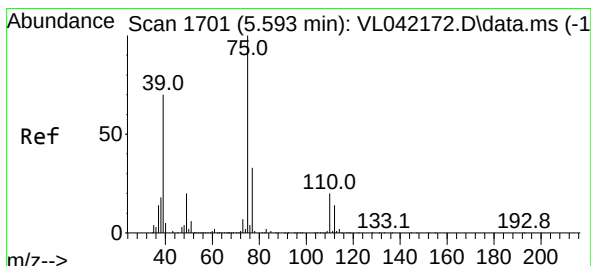
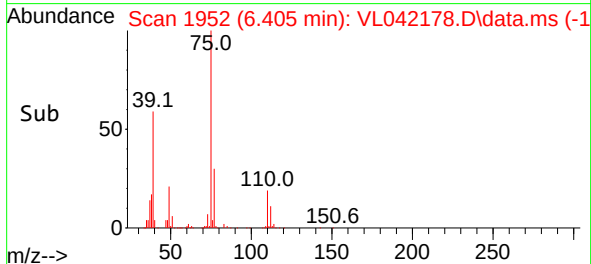
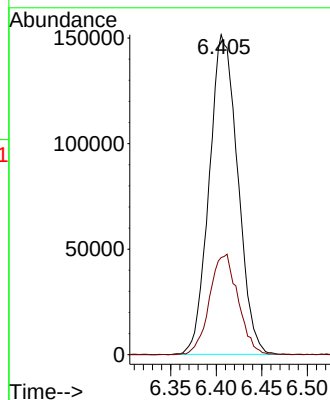
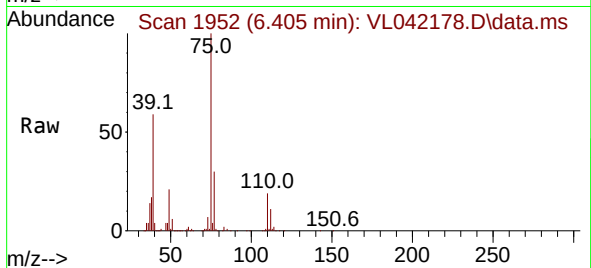
VSTDIC015

Tgt Ion: 75 Resp: 329360

Ion Ratio Lower Upper

75 100

77 30.4 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 14.542 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

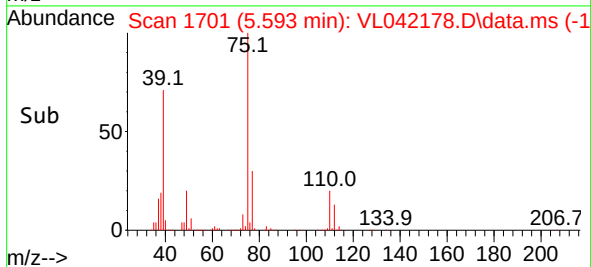
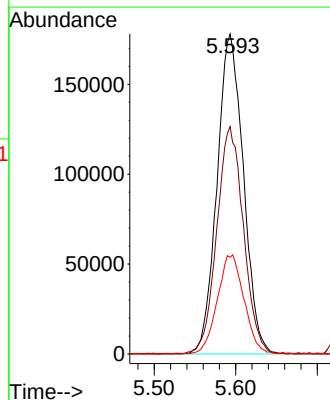
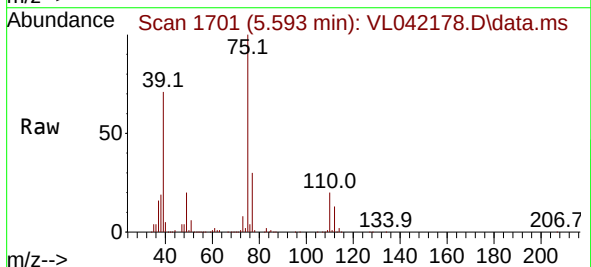
Tgt Ion: 75 Resp: 400813

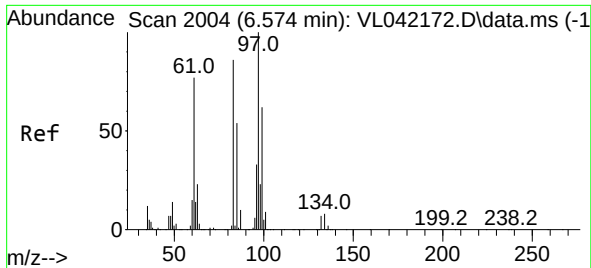
Ion Ratio Lower Upper

75 100

39 70.9 55.8 83.6

77 30.2 26.0 39.0

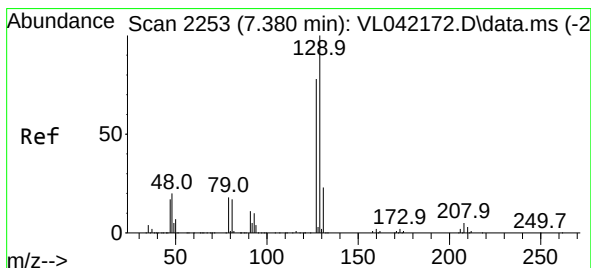
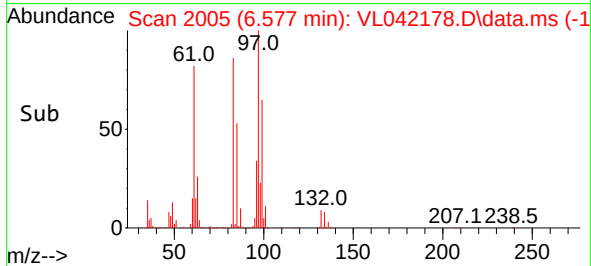
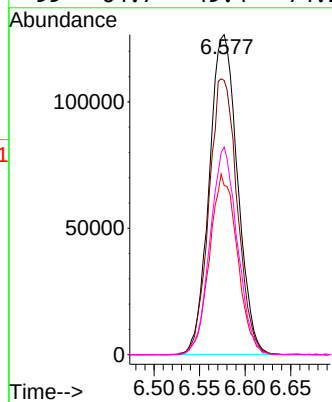
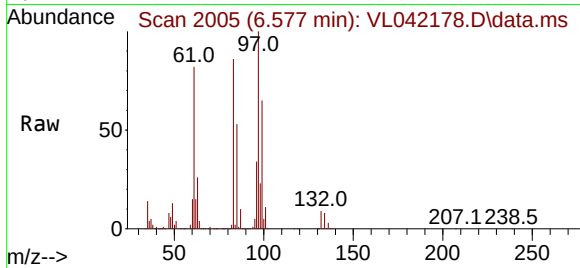




#47  
1,1,2-Trichloroethane  
Concen: 14.331 ppbv  
RT: 6.577 min Scan# 20  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

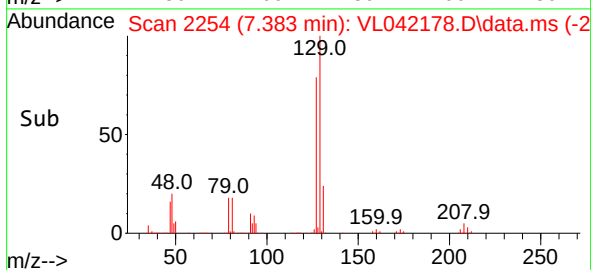
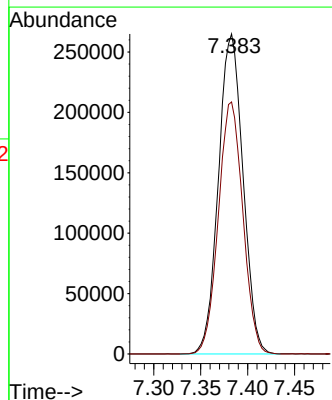
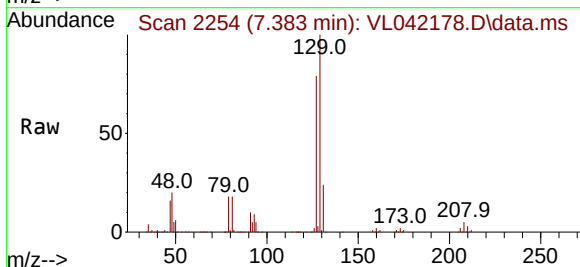
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

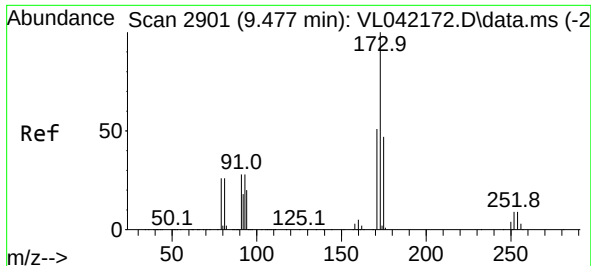
|             |              |
|-------------|--------------|
| Tgt Ion: 97 | Resp: 273137 |
| Ion Ratio   | Lower Upper  |
| 97 100      |              |
| 83 85.7     | 69.2 103.8   |
| 85 52.7     | 43.1 64.7    |
| 99 64.7     | 49.4 74.2    |



#48  
Dibromochloromethane  
Concen: 14.936 ppbv  
RT: 7.383 min Scan# 2254  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:129 | Resp: | 482431 |
| Ion | Ratio   | Lower | Upper  |
| 129 | 100     |       |        |
| 127 | 78.4    | 39.1  | 117.2  |

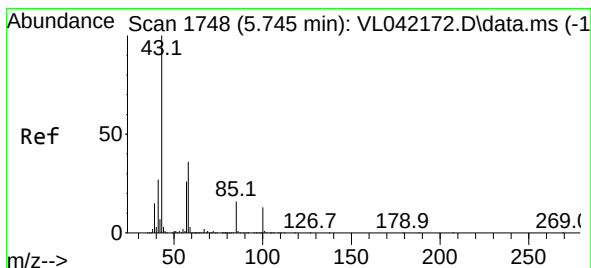
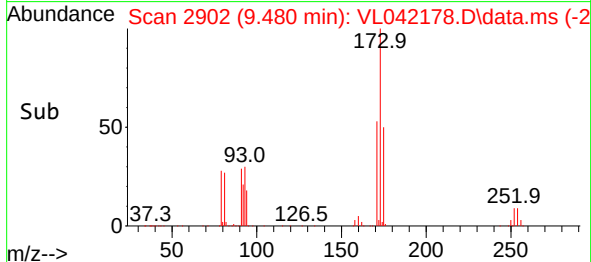
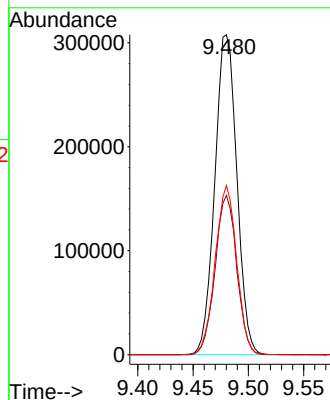
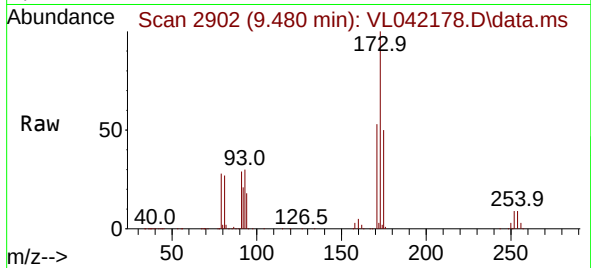




#49  
Bromoform  
Concen: 14.730 ppbv  
RT: 9.480 min Scan# 2901  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

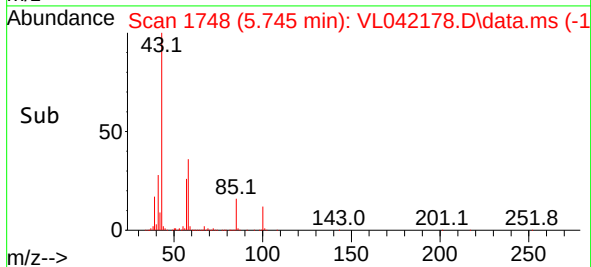
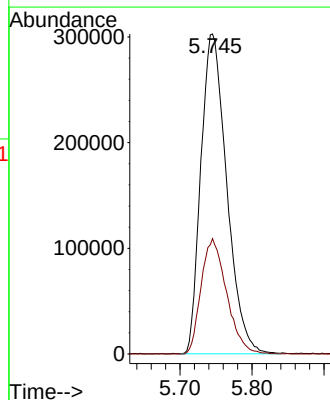
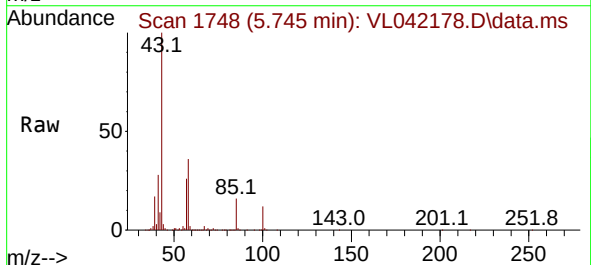
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

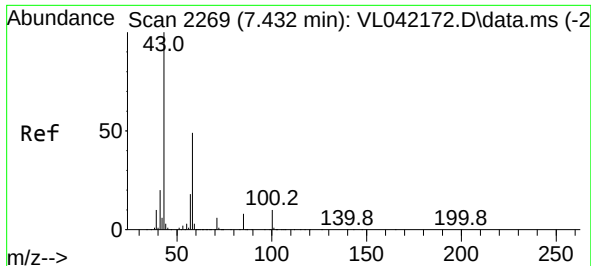
Tgt Ion:173 Resp: 427143  
Ion Ratio Lower Upper  
173 100  
175 48.9 38.6 57.8  
171 51.5 41.8 62.6



#50  
4-Methyl-2-Pentanone  
Concen: 13.155 ppbv  
RT: 5.745 min Scan# 1748  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 755146  
Ion Ratio Lower Upper  
43 100  
58 35.5 29.0 43.6

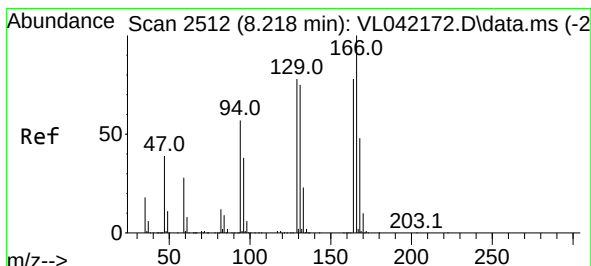
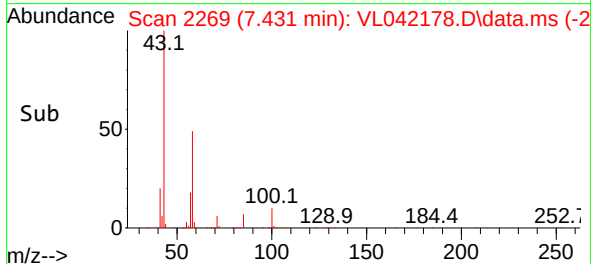
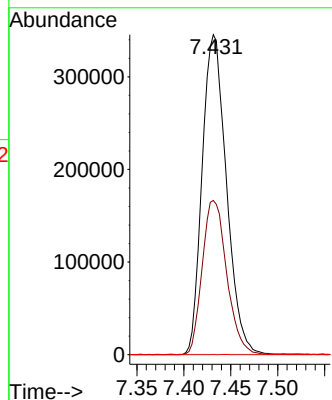
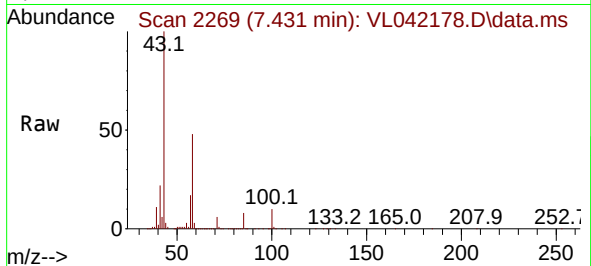




#51  
2-Hexanone  
Concen: 13.005 ppbv  
RT: 7.431 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

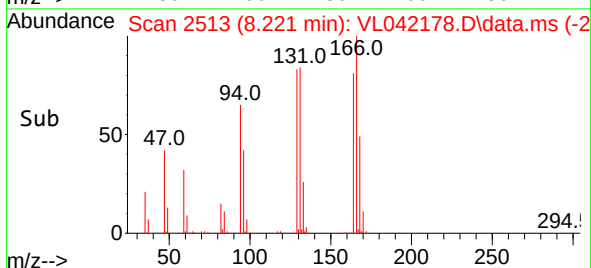
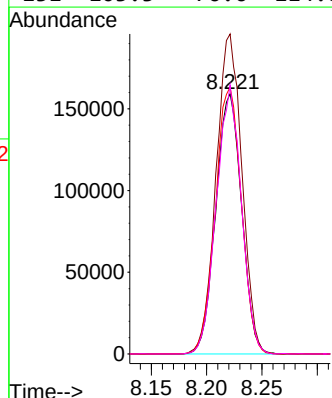
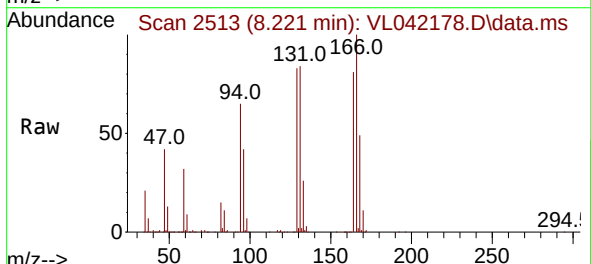
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

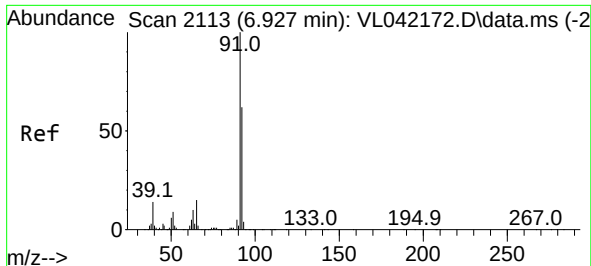
Tgt Ion: 43 Resp: 619419  
Ion Ratio Lower Upper  
43 100  
58 49.0 39.7 59.5  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 13.159 ppbv  
RT: 8.221 min Scan# 2513  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 164 Resp: 258356  
Ion Ratio Lower Upper  
164 100  
166 123.0 102.5 153.7  
129 102.5 79.8 119.8  
131 103.3 76.6 114.8

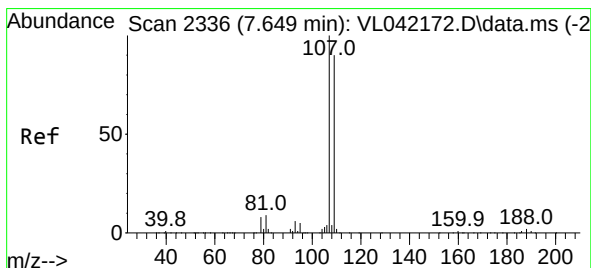
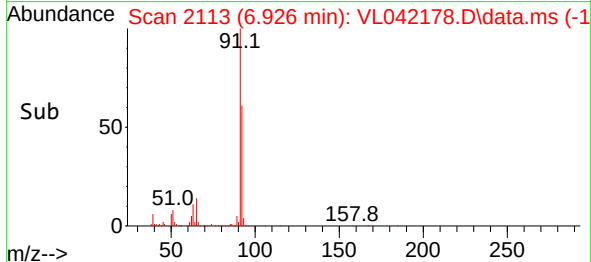
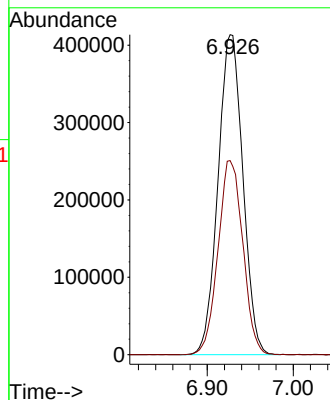
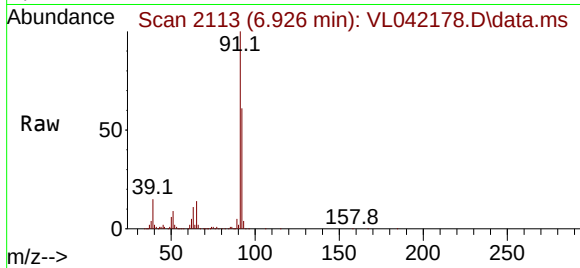




#53  
Toluene  
Concen: 14.137 ppbv  
RT: 6.926 min Scan# 2113  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

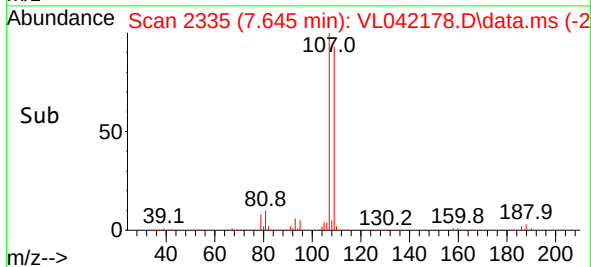
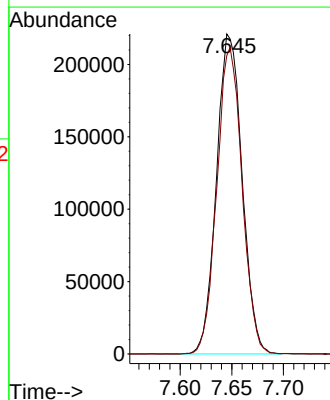
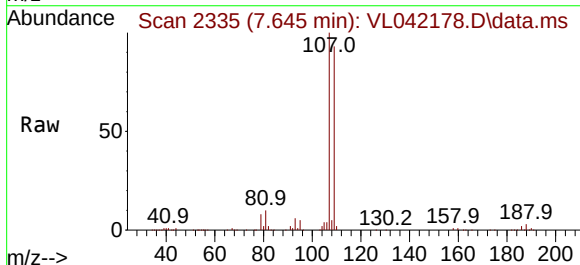
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

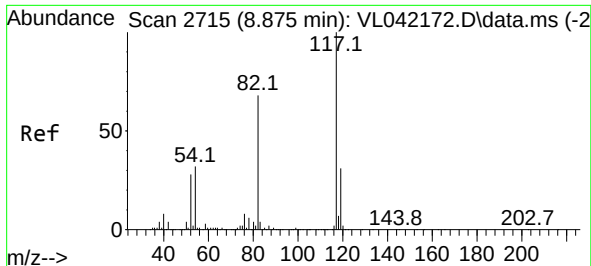
Tgt Ion: 91 Resp: 829648  
Ion Ratio Lower Upper  
91 100  
92 60.6 48.4 72.6



#54  
1,2-Dibromoethane  
Concen: 14.359 ppbv  
RT: 7.645 min Scan# 2335  
Delta R.T. -0.004 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 107 Resp: 381823  
Ion Ratio Lower Upper  
107 100  
109 93.2 72.2 108.4

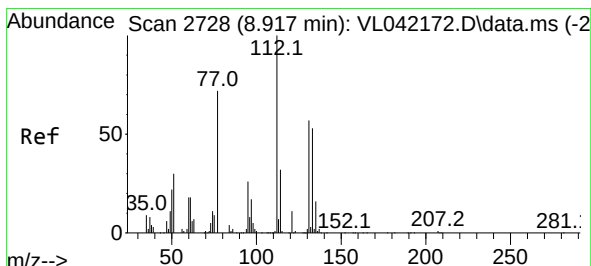
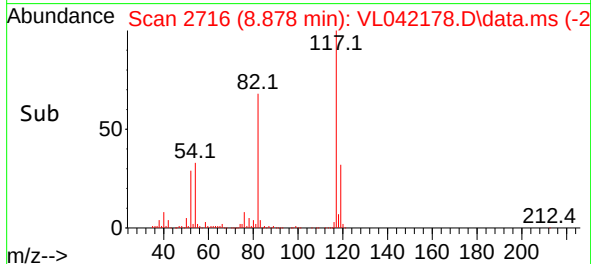
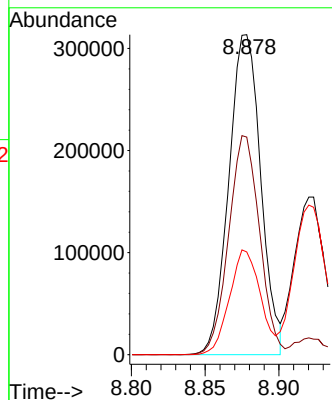
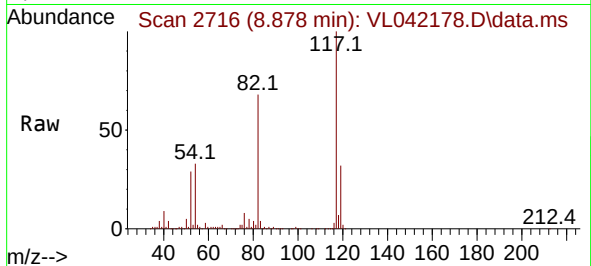




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 2715  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

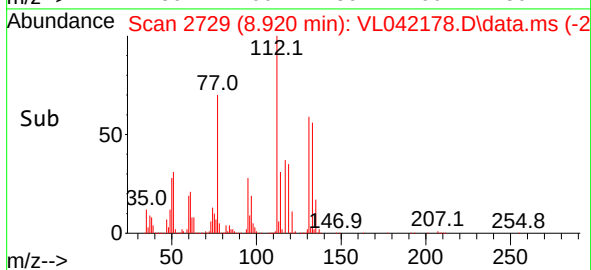
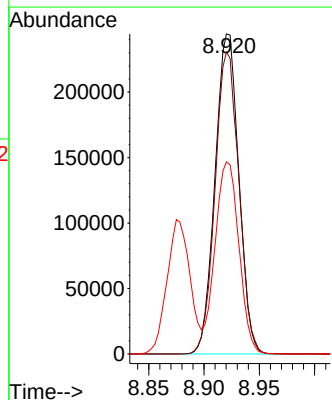
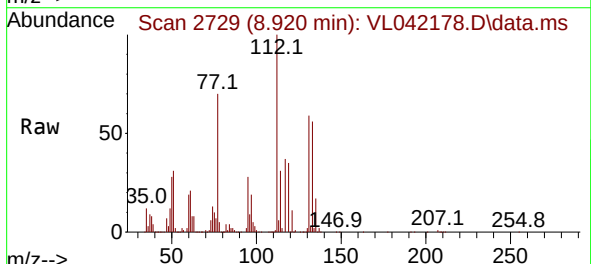
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC015

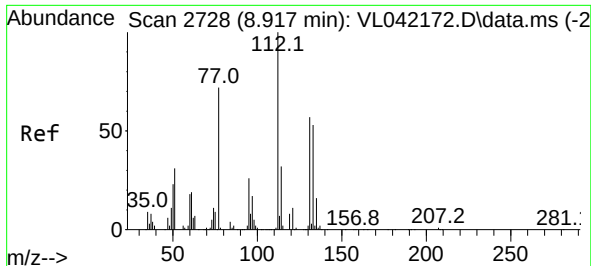
Tgt Ion:117 Resp: 473077  
Ion Ratio Lower Upper  
117 100  
82 71.4 55.8 83.6  
119 31.7 25.5 38.3



#56  
1,1,1,2-Tetrachloroethane  
Concen: 14.032 ppbv  
RT: 8.920 min Scan# 2729  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion:131 Resp: 365410  
Ion Ratio Lower Upper  
131 100  
133 94.5 76.6 114.8  
119 61.2 49.8 74.6





#57

Chlorobenzene

Concen: 13.777 ppbv

RT: 8.917 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC015

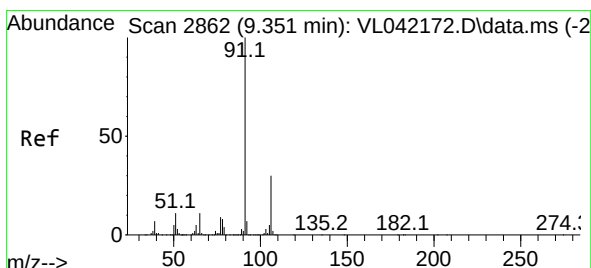
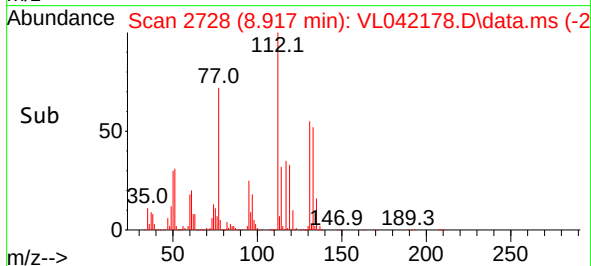
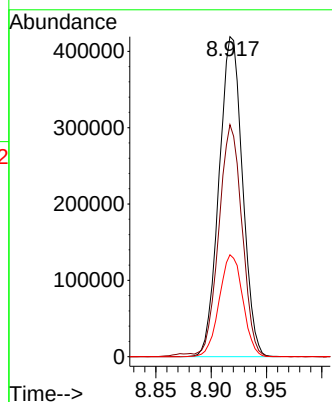
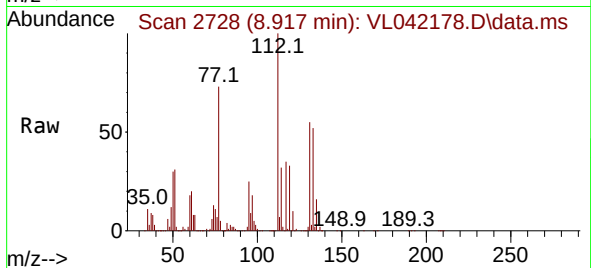
Tgt Ion:112 Resp: 618201

Ion Ratio Lower Upper

112 100

77 72.5 58.2 87.2

114 31.8 29.1 35.5



#58

Ethyl Benzene

Concen: 13.889 ppbv

RT: 9.351 min Scan# 2862

Delta R.T. -0.000 min

Lab File: VL042178.D

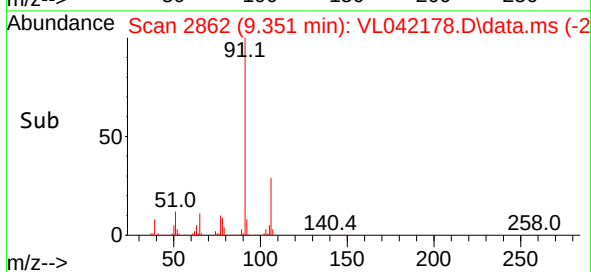
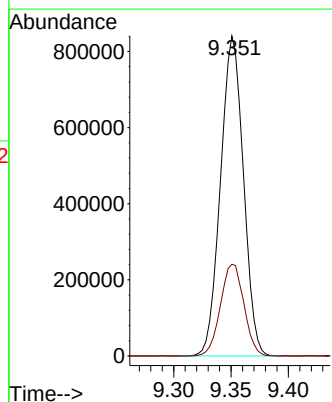
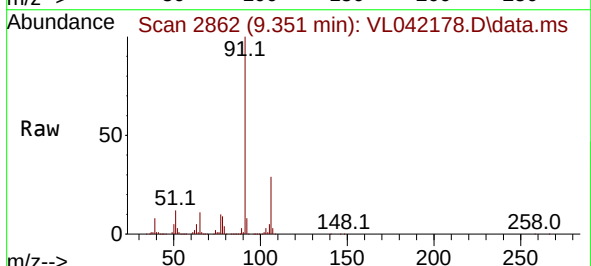
Acq: 27 Mar 2025 11:36

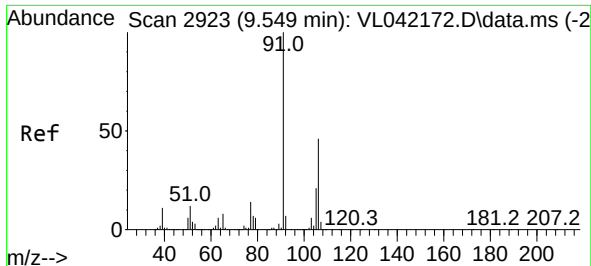
Tgt Ion: 91 Resp: 1167096

Ion Ratio Lower Upper

91 100

106 28.7 24.2 36.2





#59

m/p-Xylene

Concen: 12.901 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA\_1

ClientSampleId :

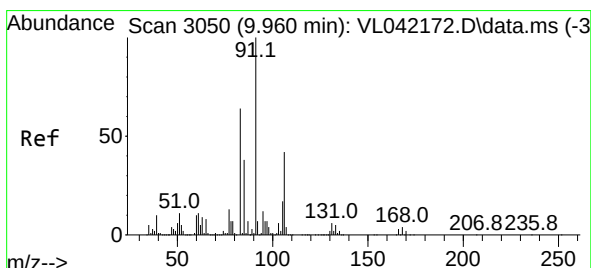
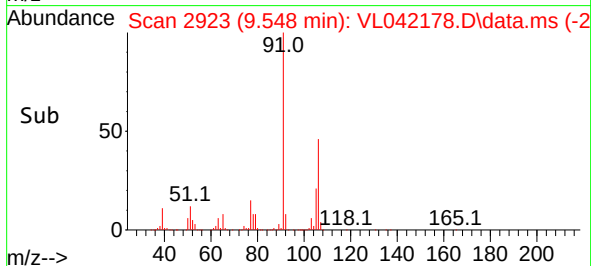
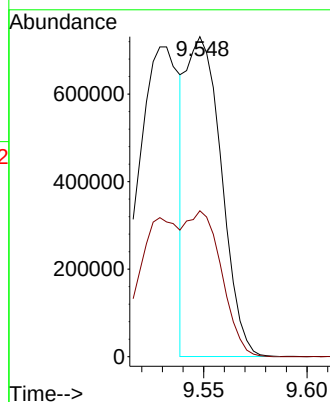
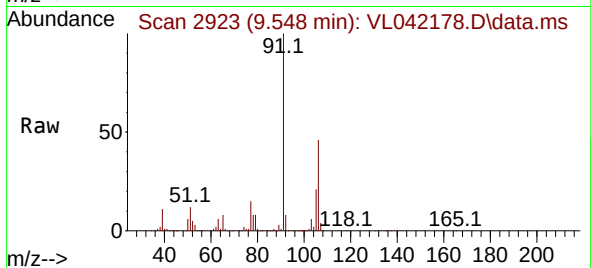
VSTDIC015

Tgt Ion: 91 Resp: 866684

Ion Ratio Lower Upper

91 100

106 96.9 36.4 54.6#



#60

o-Xylene

Concen: 13.577 ppbv

RT: 9.962 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL042178.D

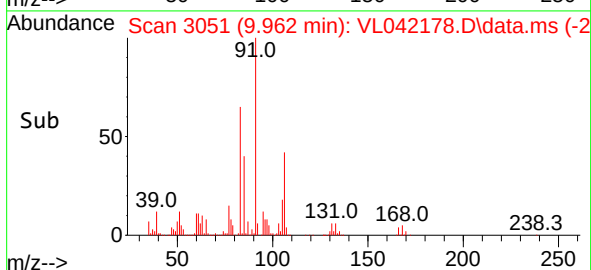
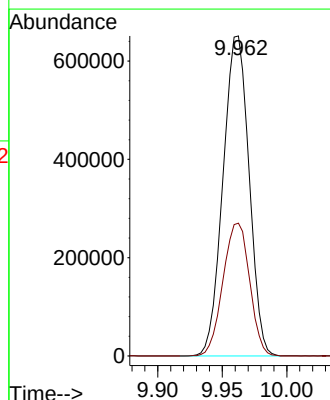
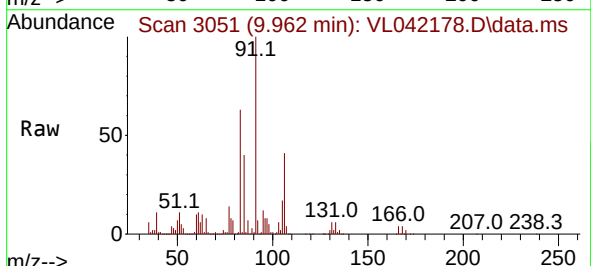
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 913234

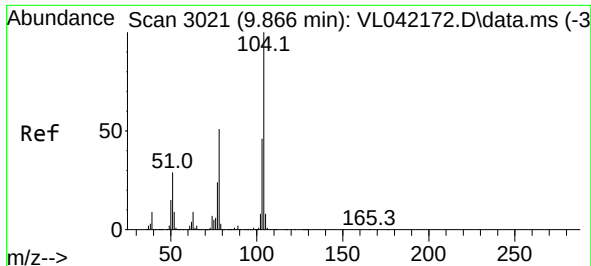
Ion Ratio Lower Upper

91 100

106 42.4 20.8 62.5



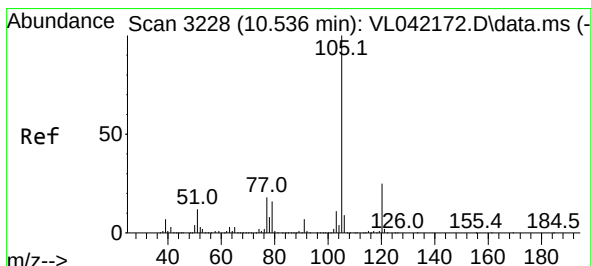
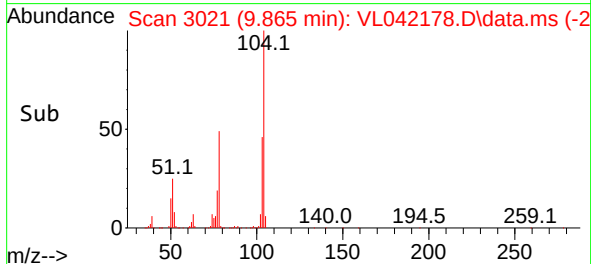
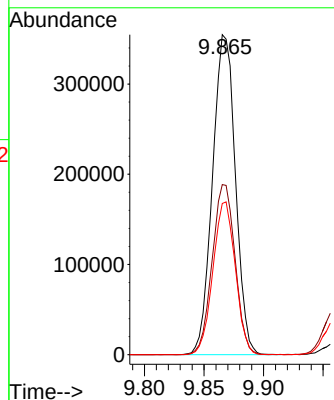
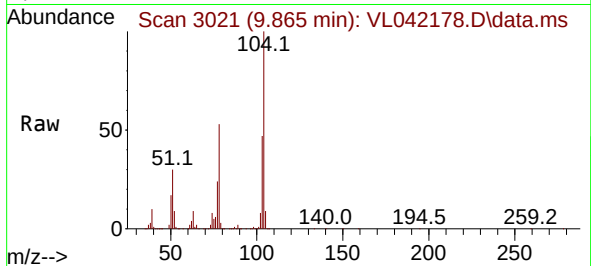




#61  
Styrene  
Concen: 14.250 ppbv  
RT: 9.865 min Scan# 3021  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

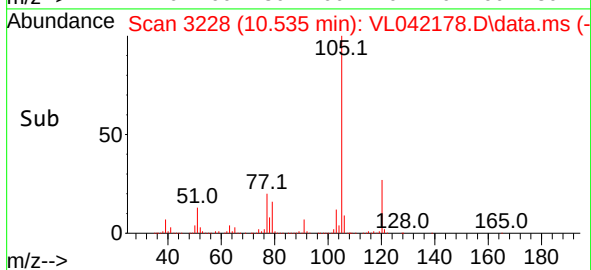
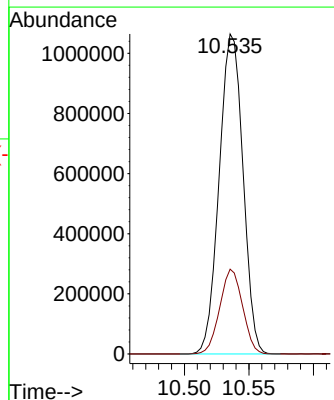
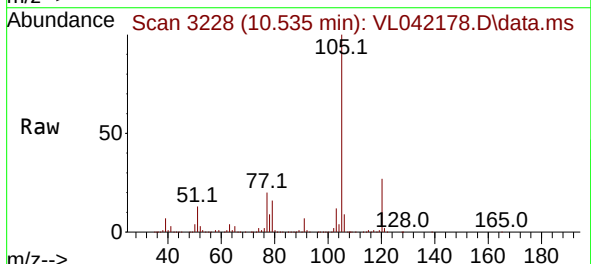
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

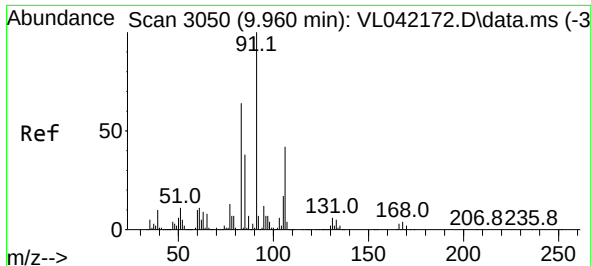
Tgt Ion:104 Resp: 474195  
Ion Ratio Lower Upper  
104 100  
78 53.0 41.8 62.6  
103 46.7 37.0 55.4



#62  
Isopropylbenzene  
Concen: 13.544 ppbv  
RT: 10.535 min Scan# 3228  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1362416  
Ion Ratio Lower Upper  
105 100  
120 25.3 19.9 29.9

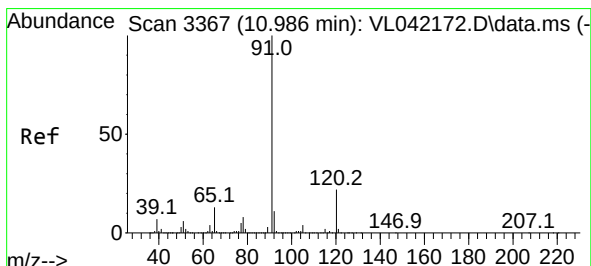
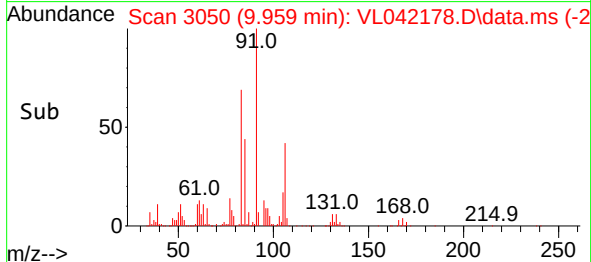
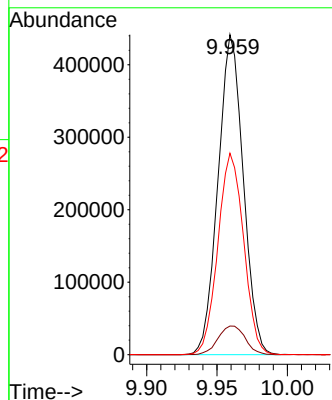
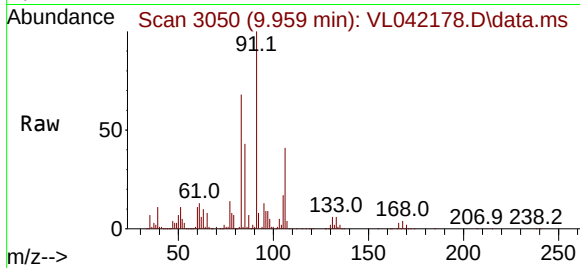




#63  
1,1,2,2-Tetrachloroethane  
Concen: 13.491 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

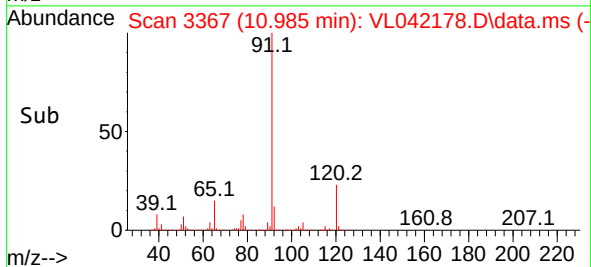
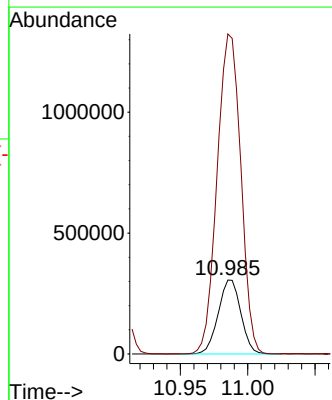
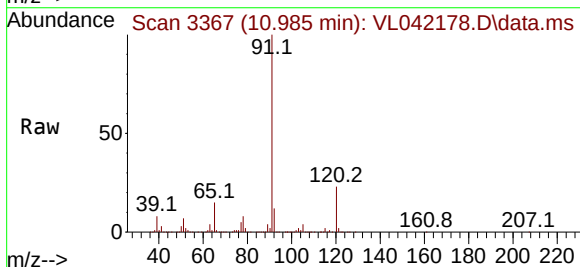
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MSVOA\_1  
ClientSampleId :  
VSTDIC015

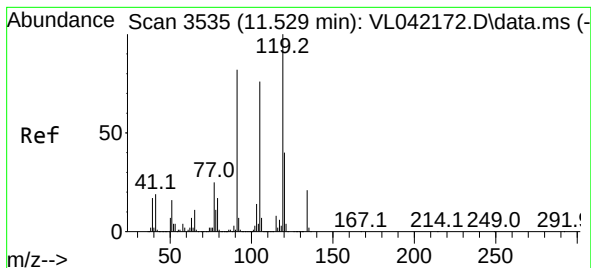
Tgt Ion: 83 Resp: 551386  
Ion Ratio Lower Upper  
83 100  
131 9.6 4.8 14.4  
85 64.2 32.5 97.5



#64  
n-propylbenzene  
Concen: 13.753 ppbv  
RT: 10.985 min Scan# 3367  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 120 Resp: 356118  
Ion Ratio Lower Upper  
120 100  
91 455.4 376.9 565.3

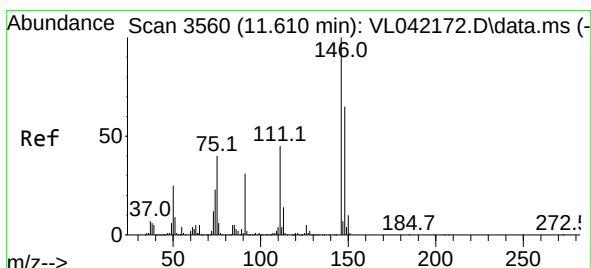
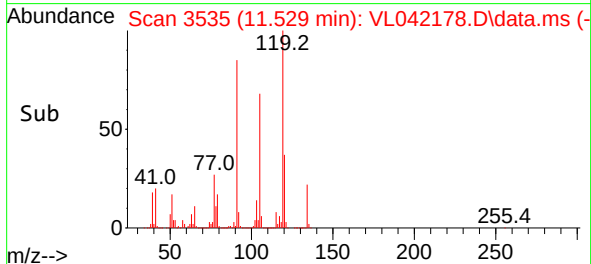
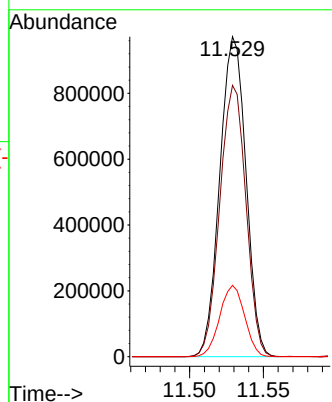
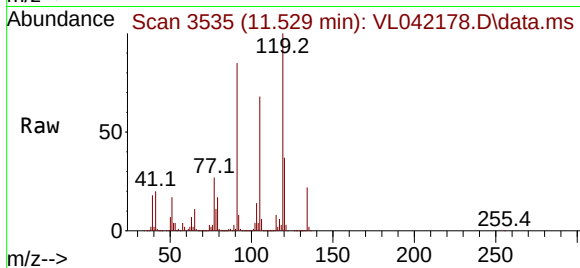




#65  
tert-Butylbenzene  
Concen: 12.901 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

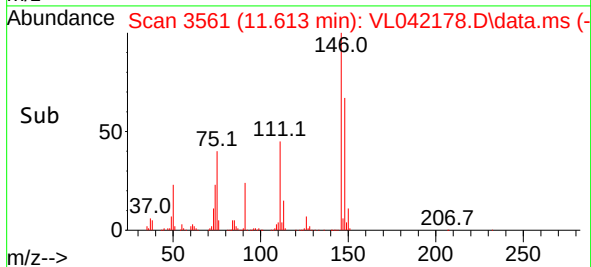
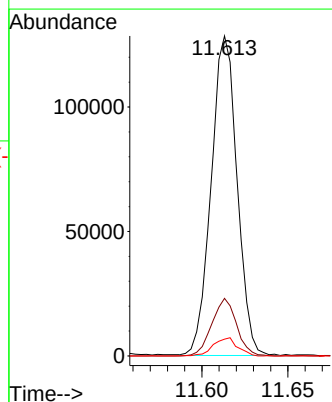
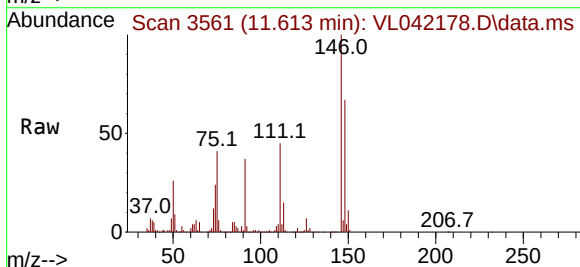
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

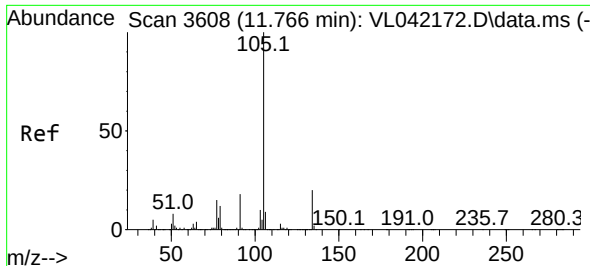
Tgt Ion:119 Resp: 1200149  
Ion Ratio Lower Upper  
119 100  
91 84.6 66.0 99.0  
134 21.2 16.7 25.1



#66  
Benzyl Chloride  
Concen: 13.615 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 134397  
Ion Ratio Lower Upper  
91 100  
126 17.3 13.8 20.6  
128 5.4 4.5 6.7

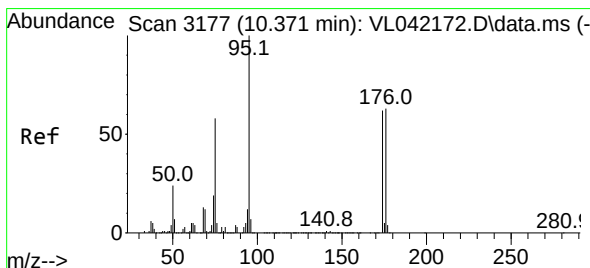
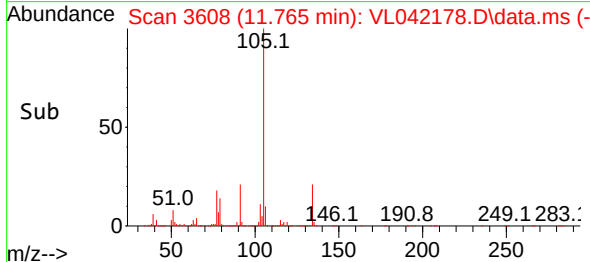
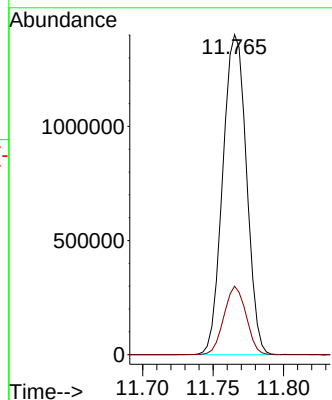
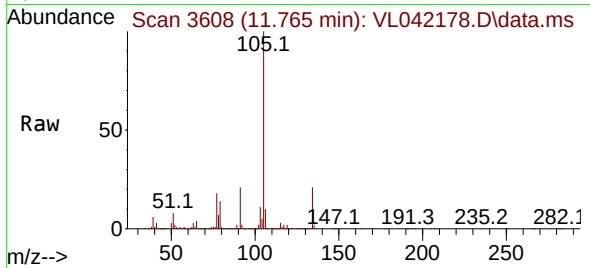




#67  
sec-Butylbenzene  
Concen: 12.711 ppbv  
RT: 11.765 min Scan# 3178  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

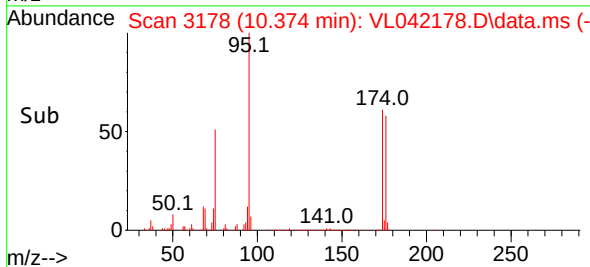
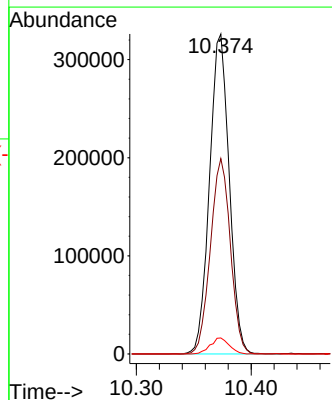
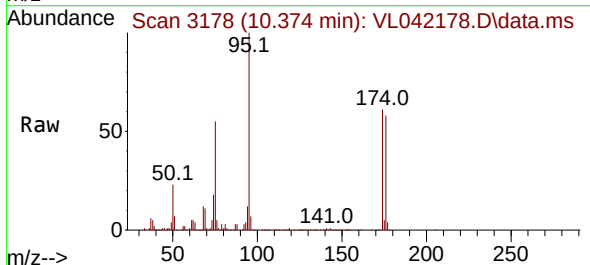
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

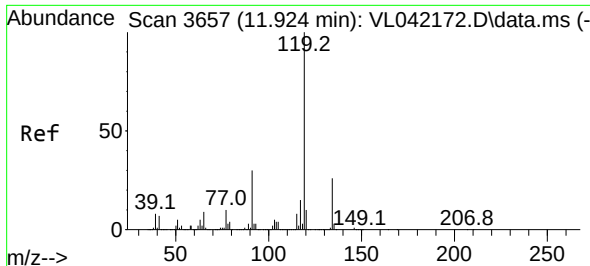
Tgt Ion:105 Resp: 1643629  
Ion Ratio Lower Upper  
105 100  
134 20.0 15.5 23.3



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.981 ppbv  
RT: 10.374 min Scan# 3178  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 95 Resp: 387777  
Ion Ratio Lower Upper  
95 100  
174 62.1 50.6 76.0  
175 4.8 3.8 5.6

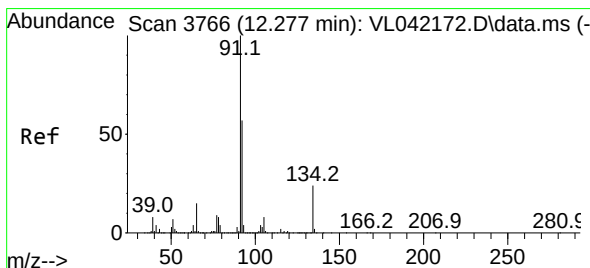
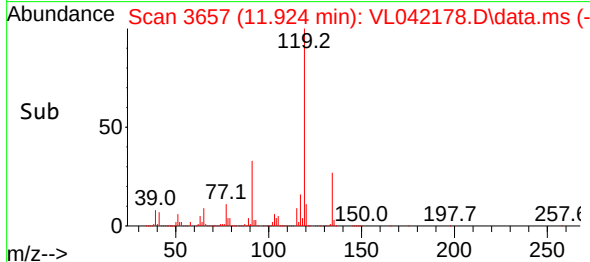
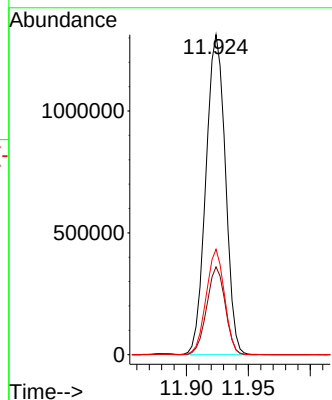
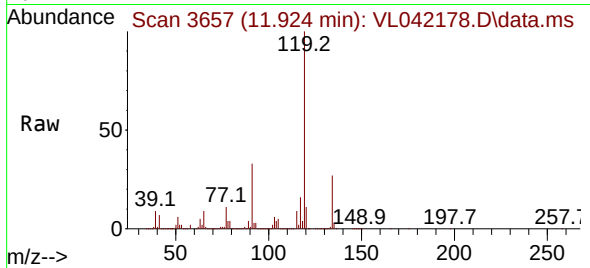




#69  
 p-Isopropyltoluene  
 Concen: 12.906 ppbv  
 RT: 11.924 min Scan# 3657  
 Delta R.T. -0.000 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

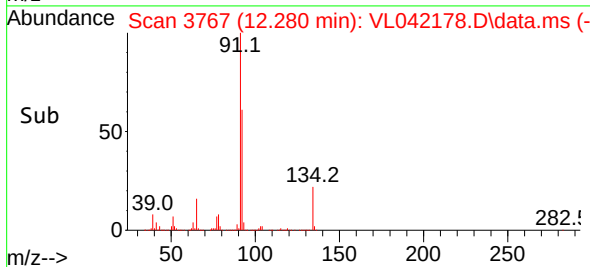
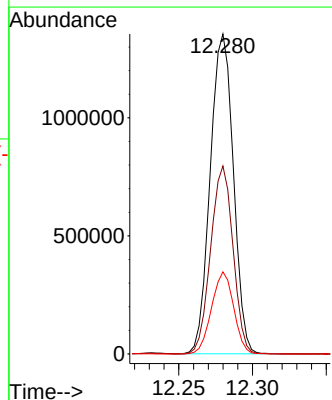
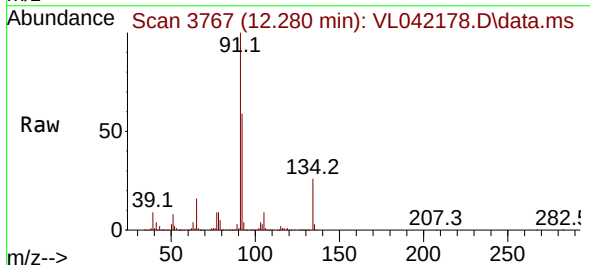
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

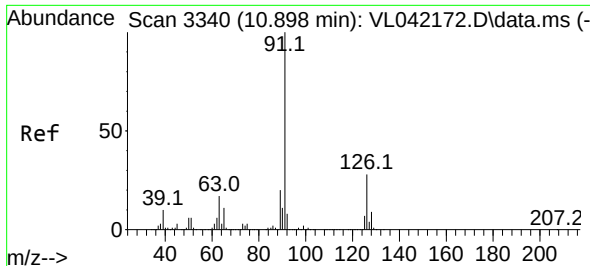
Tgt Ion:119 Resp: 1437016  
 Ion Ratio Lower Upper  
 119 100  
 134 26.2 20.4 30.6  
 91 31.2 23.7 35.5



#70  
 n-Butylbenzene  
 Concen: 12.975 ppbv  
 RT: 12.280 min Scan# 3767  
 Delta R.T. 0.003 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 1477443  
 Ion Ratio Lower Upper  
 91 100  
 92 57.0 44.9 67.3  
 134 24.6 19.2 28.8

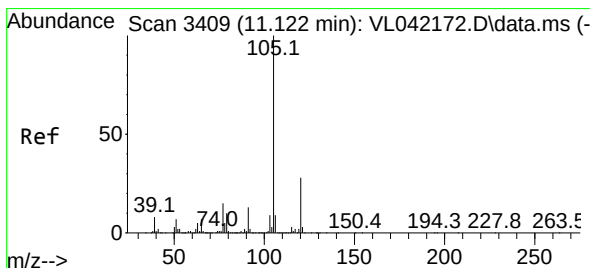
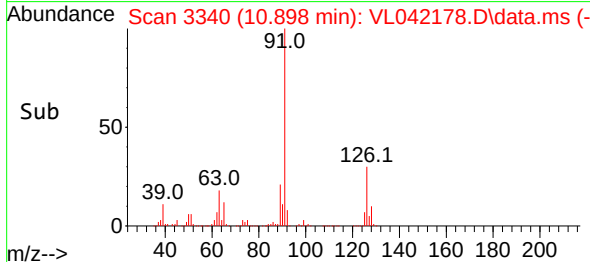
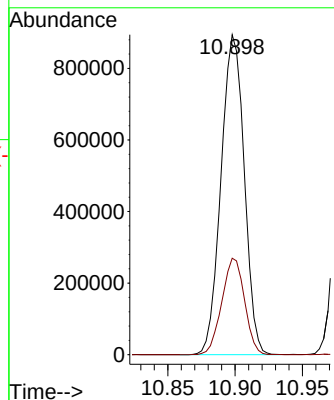
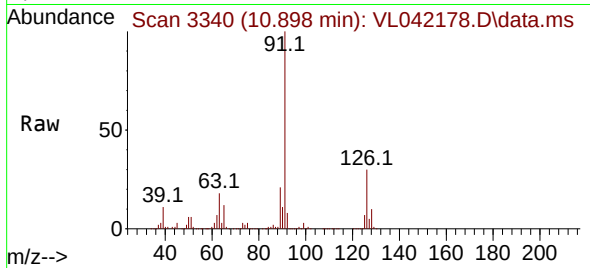




#71  
2-Chlorotoluene  
Concen: 13.724 ppbv  
RT: 10.898 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

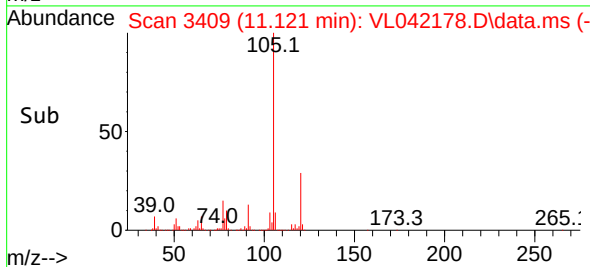
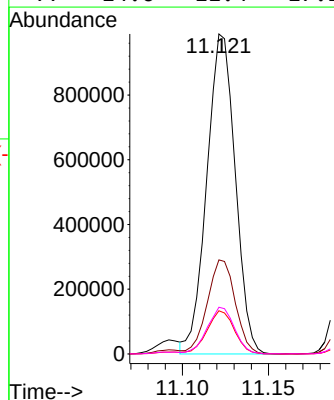
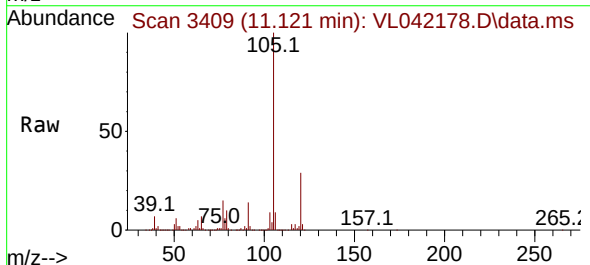
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MSVOA\_1  
ClientSampleId :  
VSTDIC015

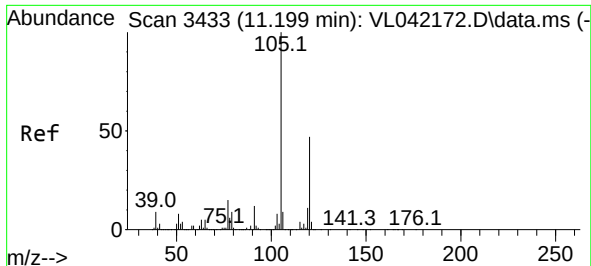
Tgt Ion: 91 Resp: 1071432  
Ion Ratio Lower Upper  
91 100  
126 29.5 11.6 46.4



#72  
4-Ethyltoluene  
Concen: 13.569 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion: 105 Resp: 1136415  
Ion Ratio Lower Upper  
105 100  
120 30.1 23.4 35.0  
91 13.5 10.3 15.5  
77 14.6 11.4 17.2

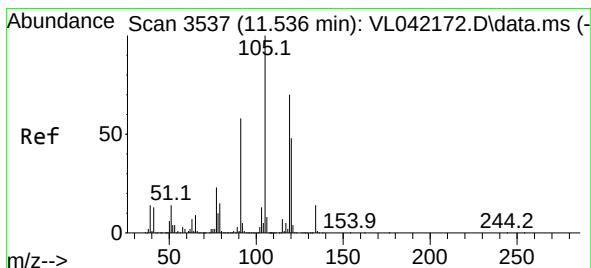
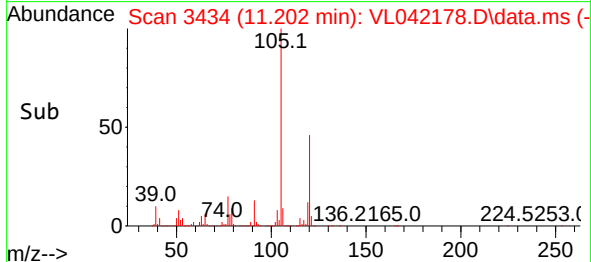
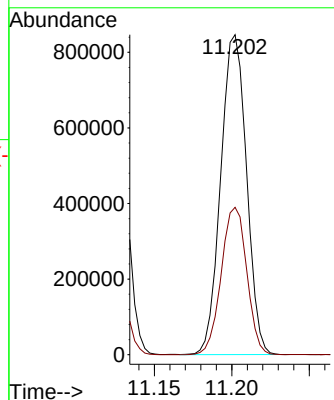
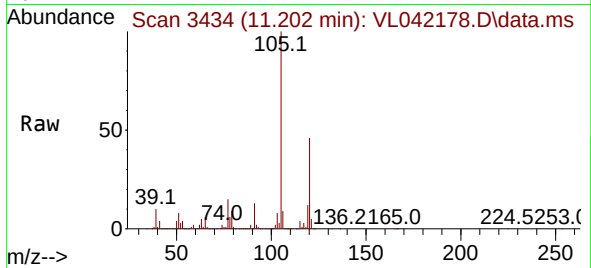




#73  
1,3,5-Trimethylbenzene  
Concen: 13.395 ppbv  
RT: 11.202 min Scan# 3434  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

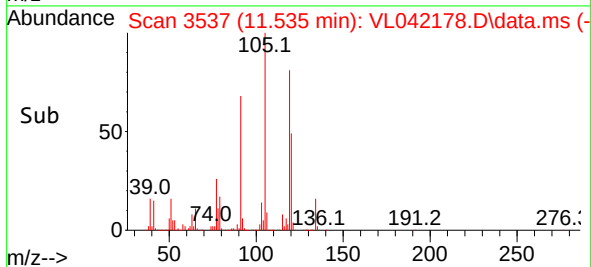
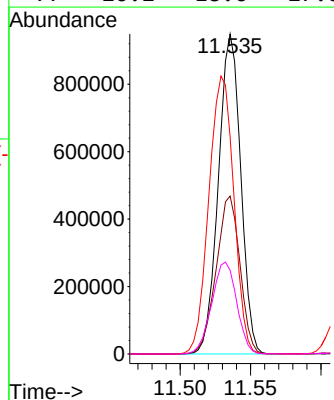
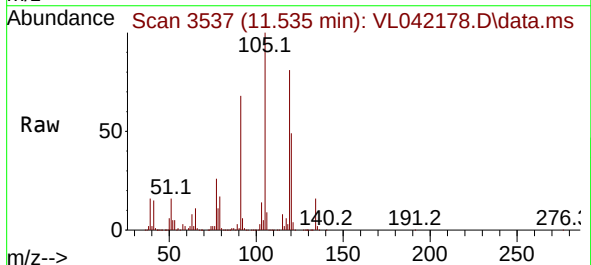
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MSVOA\_1  
ClientSampleId :  
VSTDIC015

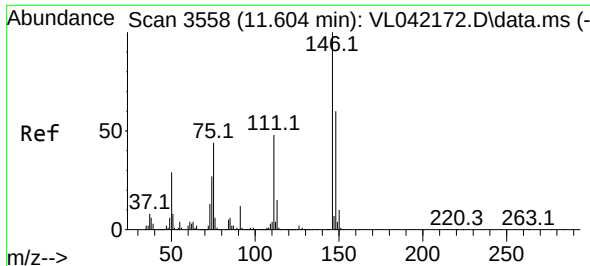
Tgt Ion:105 Resp: 979783  
Ion Ratio Lower Upper  
105 100  
120 46.1 37.4 56.0



#74  
1,2,4-Trimethylbenzene  
Concen: 12.447 ppbv  
RT: 11.535 min Scan# 3537  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1048874  
Ion Ratio Lower Upper  
105 100  
120 49.3 38.6 58.0  
91 67.8 46.2 69.2  
77 26.2 18.6 27.8

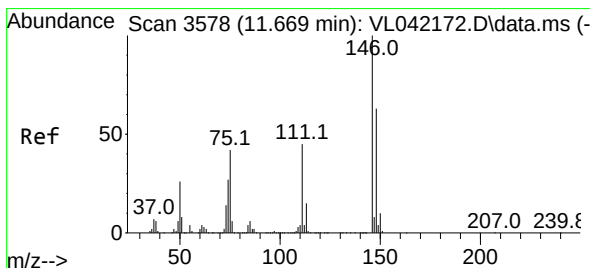
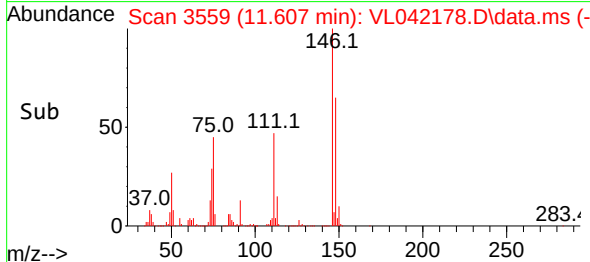
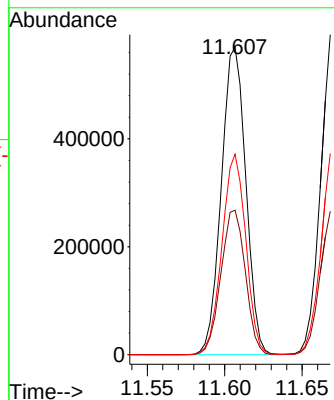
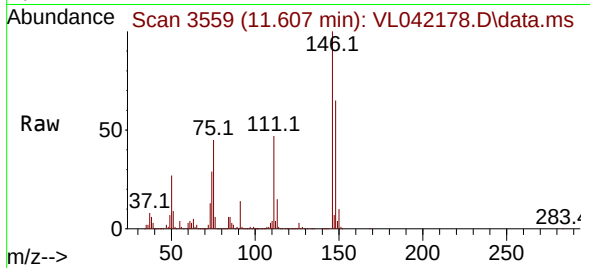




#75  
1,3-Dichlorobenzene  
Concen: 13.545 ppbv  
RT: 11.607 min Scan# 3558  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

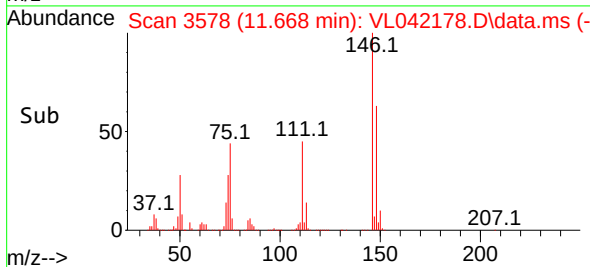
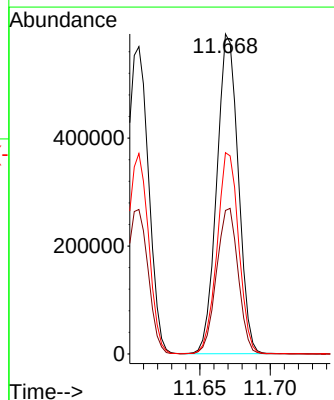
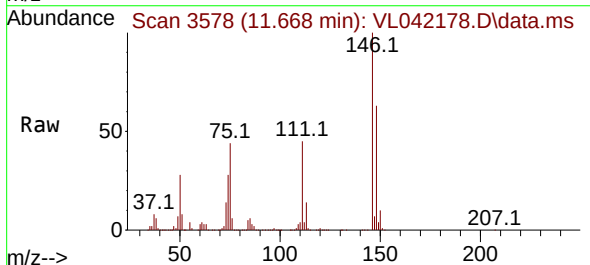
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

Tgt Ion:146 Resp: 626015  
Ion Ratio Lower Upper  
146 100  
111 47.0 23.8 71.2  
148 63.5 31.9 95.9

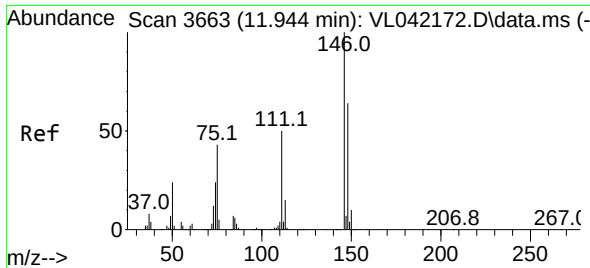


#76  
1,4-Dichlorobenzene  
Concen: 13.668 ppbv  
RT: 11.668 min Scan# 3578  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion:146 Resp: 628694  
Ion Ratio Lower Upper  
146 100  
111 46.1 23.0 69.0  
148 63.6 31.9 95.7



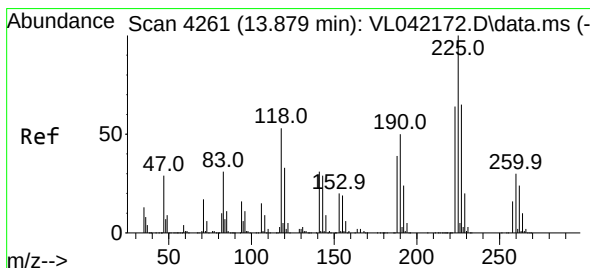
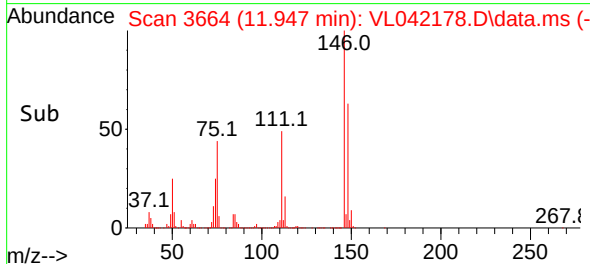
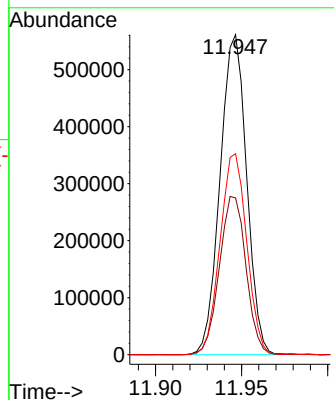
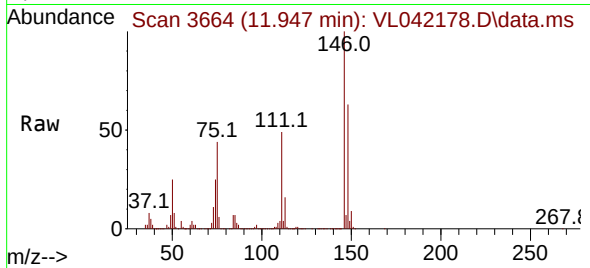




#77  
1,2-Dichlorobenzene  
Concen: 13.396 ppbv  
RT: 11.947 min Scan# 3664  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

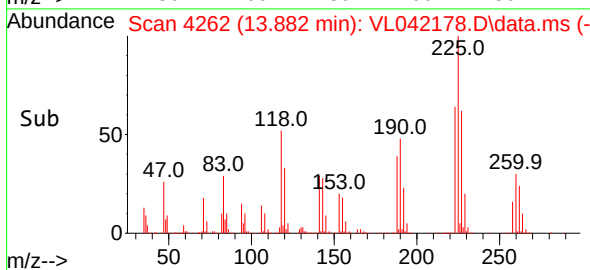
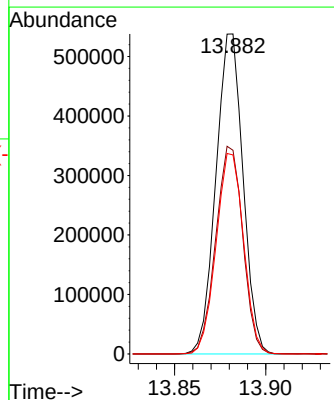
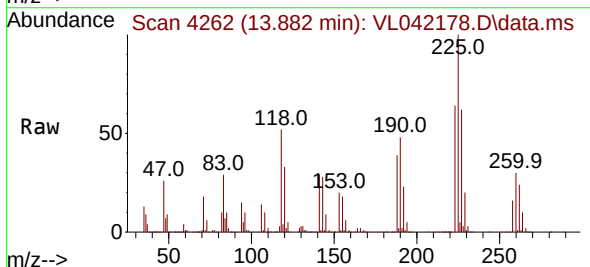
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

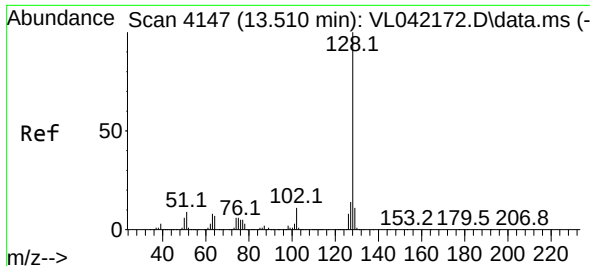
Tgt Ion:146 Resp: 602844  
Ion Ratio Lower Upper  
146 100  
111 49.7 24.8 74.3  
148 63.3 31.6 94.8



#78  
Hexachloro-1,3-Butadiene  
Concen: 12.147 ppbv  
RT: 13.882 min Scan# 4262  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

Tgt Ion:225 Resp: 556392  
Ion Ratio Lower Upper  
225 100  
223 64.7 50.6 76.0  
227 63.3 51.2 76.8

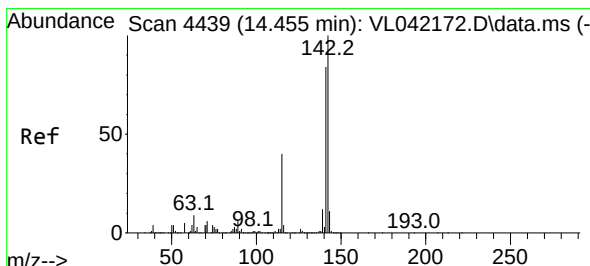
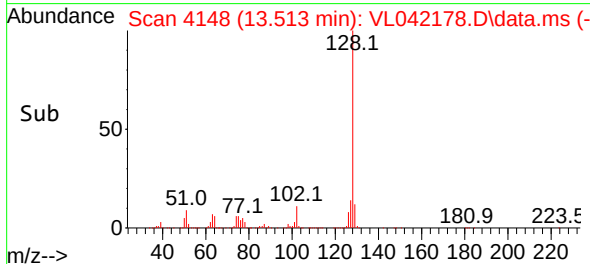
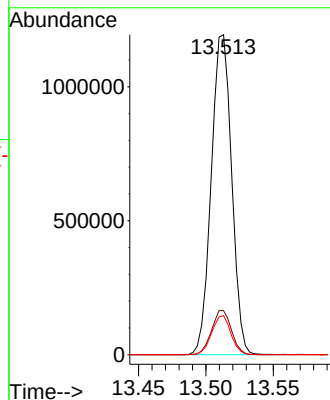
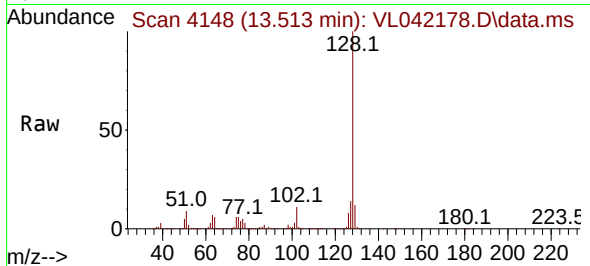




#79  
Naphthalene  
Concen: 13.653 ppbv  
RT: 13.513 min Scan# 4147  
Delta R.T. 0.003 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

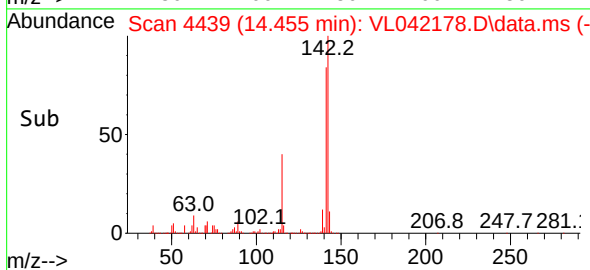
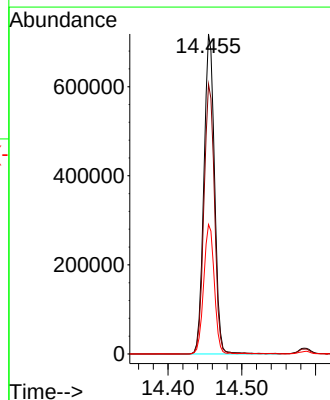
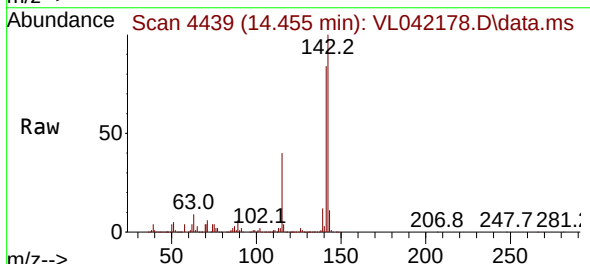
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

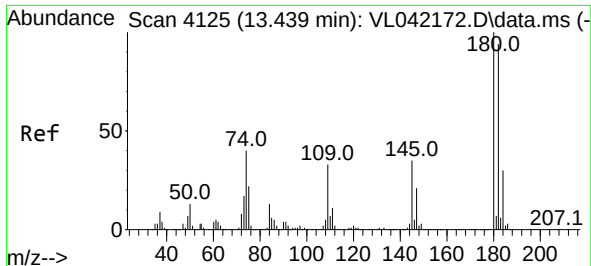
Tgt Ion:128 Resp: 1258479  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.8 16.2  
129 12.2 9.0 13.4



#80  
Naphthalene,2-methyl-  
Concen: 16.018 ppbv  
RT: 14.455 min Scan# 4439  
Delta R.T. -0.000 min  
Lab File: VL042178.D  
Acq: 27 Mar 2025 11:36

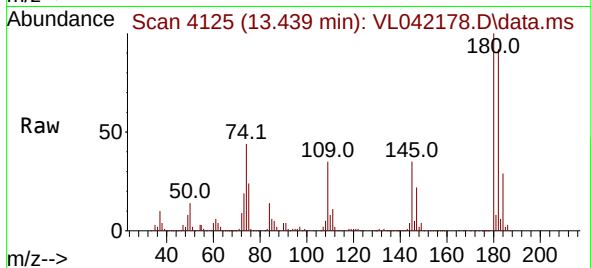
Tgt Ion:142 Resp: 718900  
Ion Ratio Lower Upper  
142 100  
141 84.3 66.3 99.5  
115 40.6 31.6 47.4



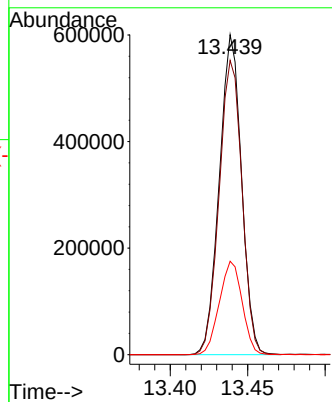
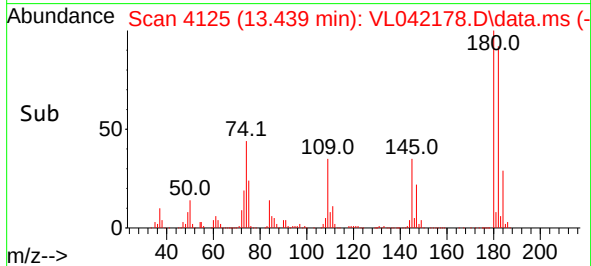


#81  
 1,2,4-Trichlorobenzene  
 Concen: 14.075 ppbv  
 RT: 13.439 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL042178.D  
 Acq: 27 Mar 2025 11:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



Tgt Ion:180 Resp: 598416  
 Ion Ratio Lower Upper  
 180 100  
 182 94.7 75.1 112.7  
 184 30.1 24.4 36.6



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

| 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

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

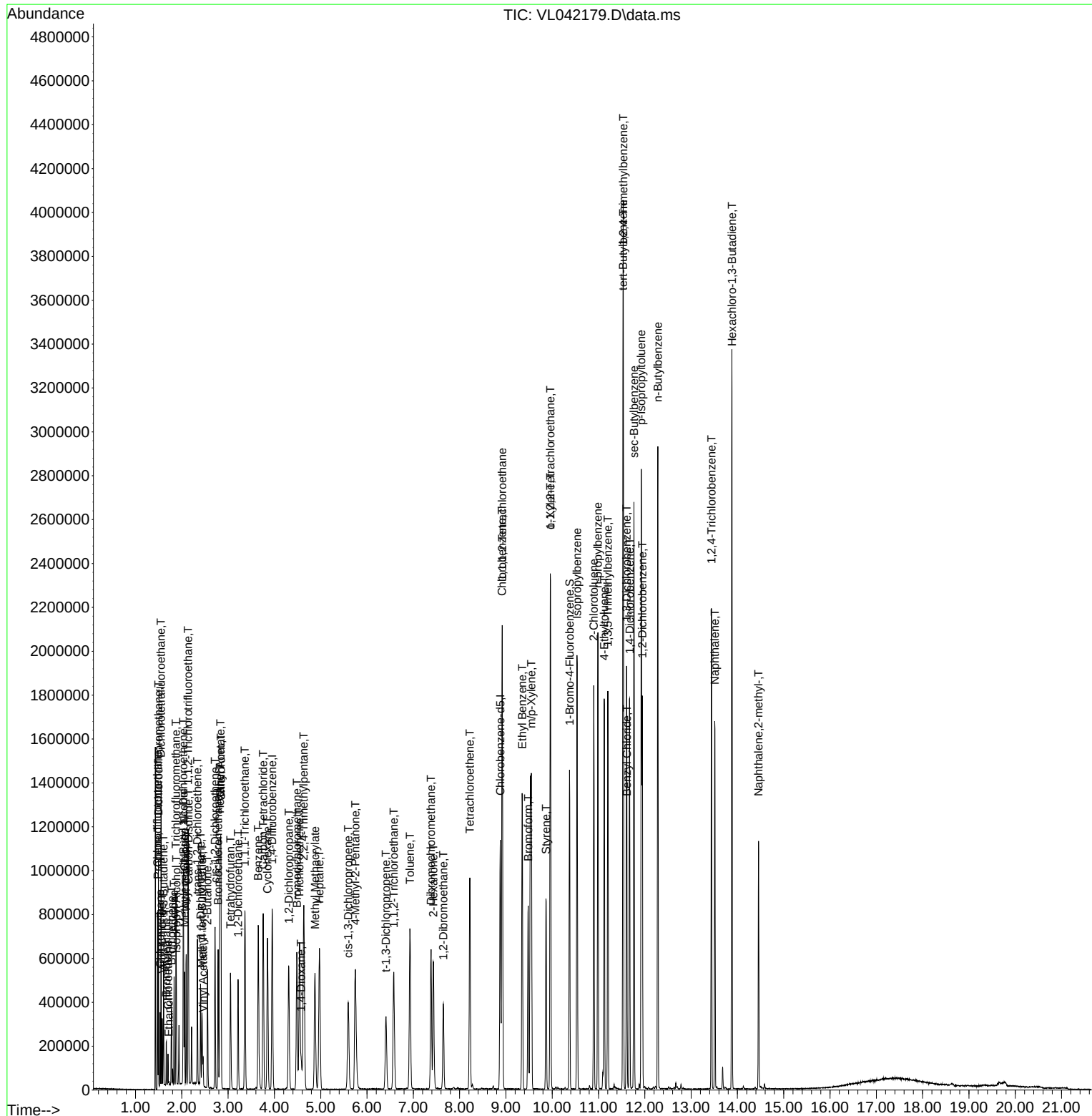
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 265101   | 9.643  | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 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   | 583773   | 8.695  | ppbv # | 20       |
| 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       |

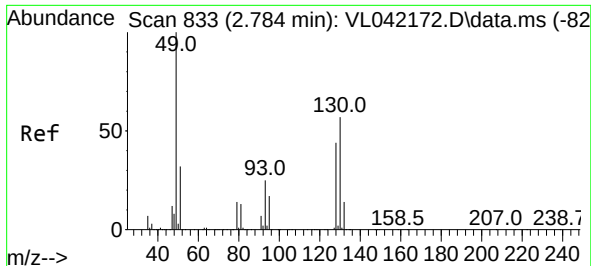
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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

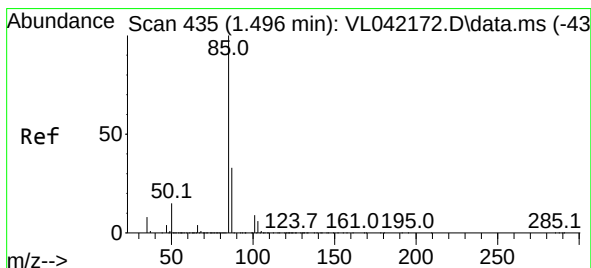
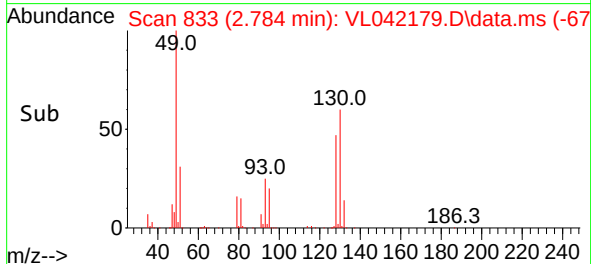
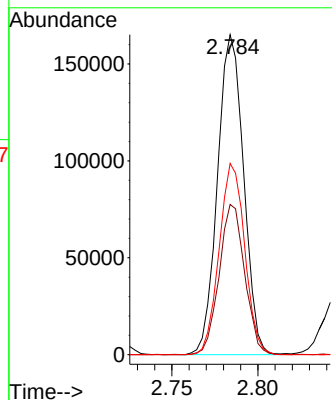
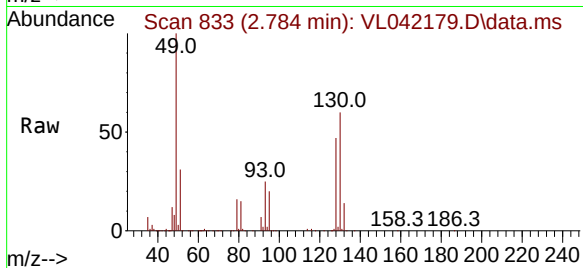




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 833  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

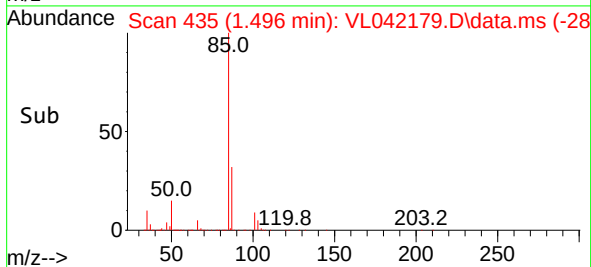
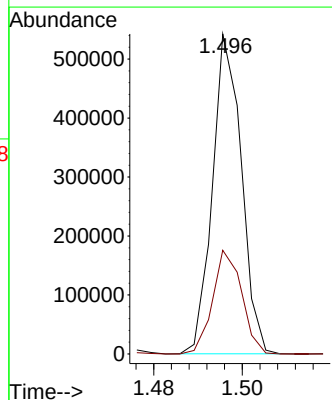
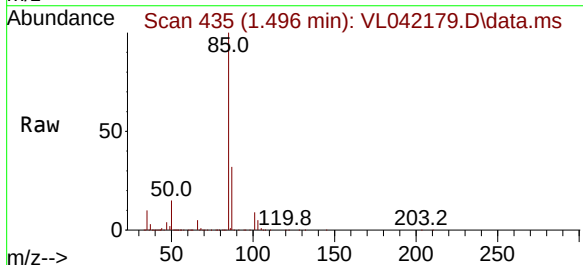
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

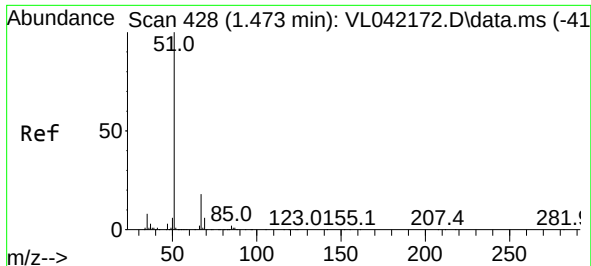
Tgt Ion: 49 Resp: 174350  
Ion Ratio Lower Upper  
49 100  
128 45.8 22.9 68.5  
130 58.4 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 9.545 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 85 Resp: 245714  
Ion Ratio Lower Upper  
85 100  
87 32.4 26.1 39.1

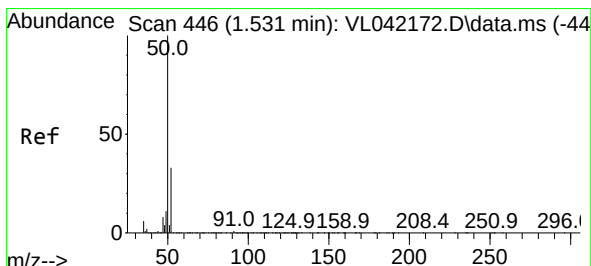
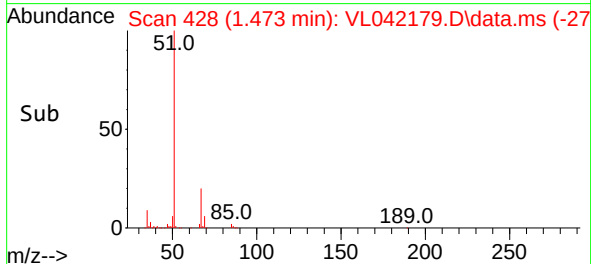
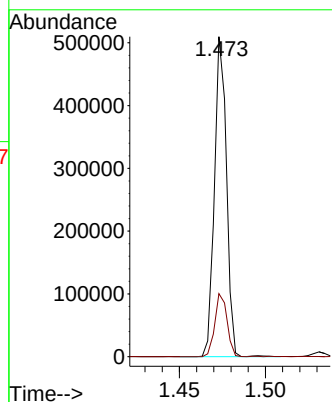
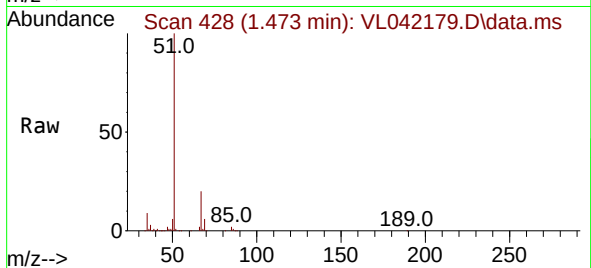




#3  
Chlorodifluoromethane  
Concen: 9.394 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

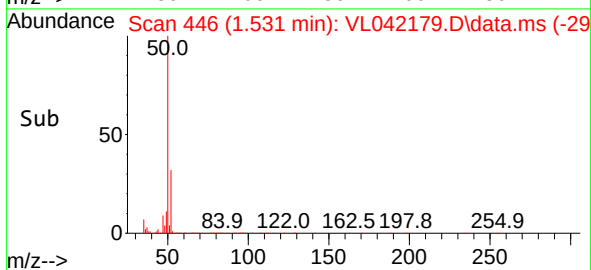
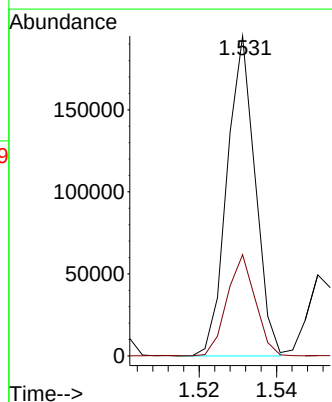
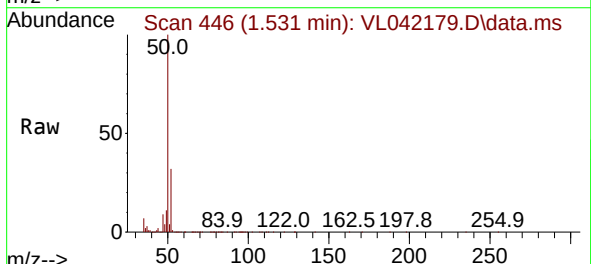
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

Tgt Ion: 51 Resp: 247046  
Ion Ratio Lower Upper  
51 100  
67 20.1 15.0 22.6

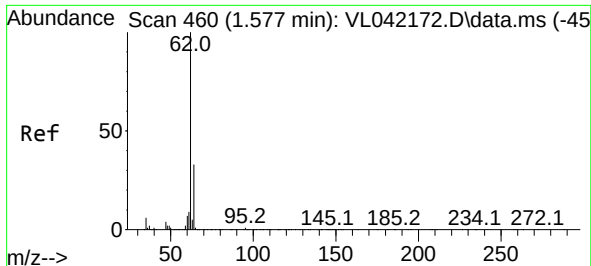


#4  
Chloromethane  
Concen: 9.365 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 50 Resp: 98527  
Ion Ratio Lower Upper  
50 100  
52 31.6 26.1 39.1



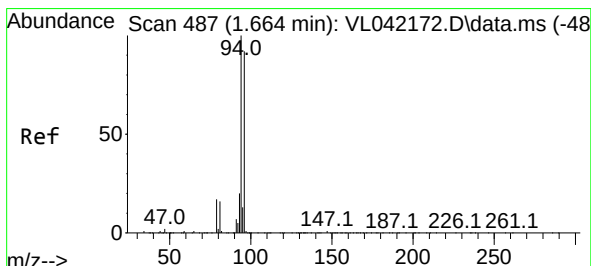
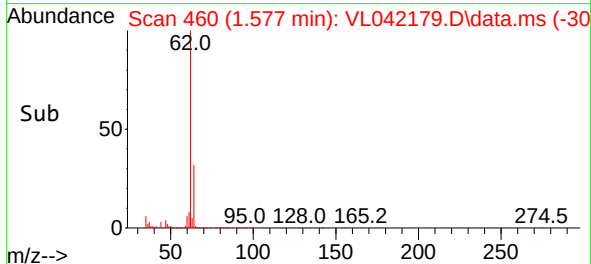
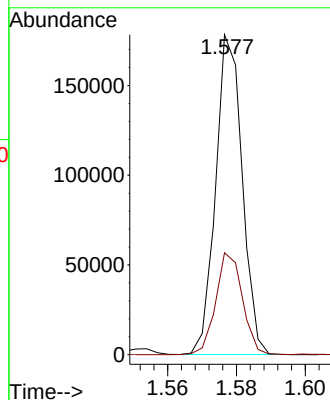
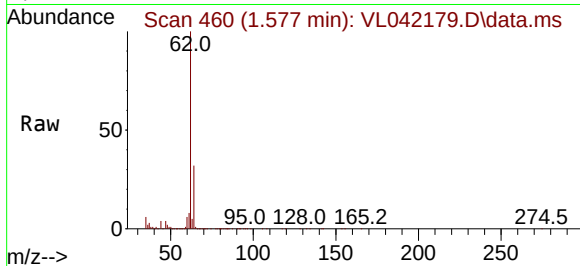




#5  
 Vinyl Chloride  
 Concen: 8.573 ppbv  
 RT: 1.577 min Scan# 460  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

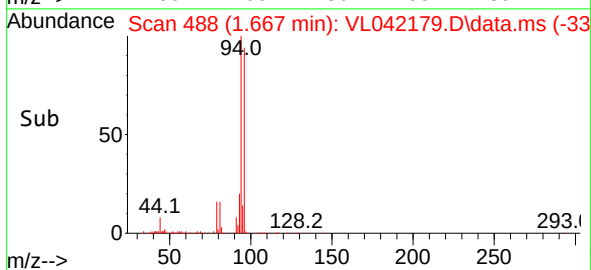
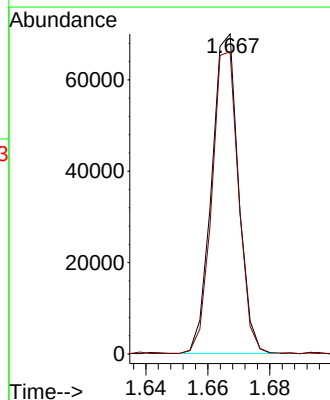
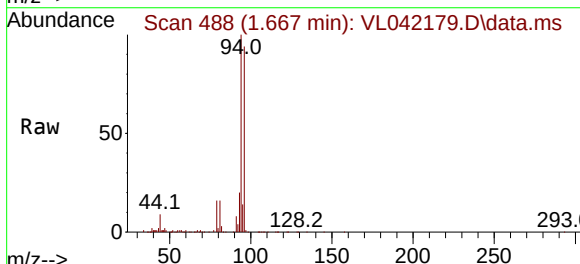
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL032725

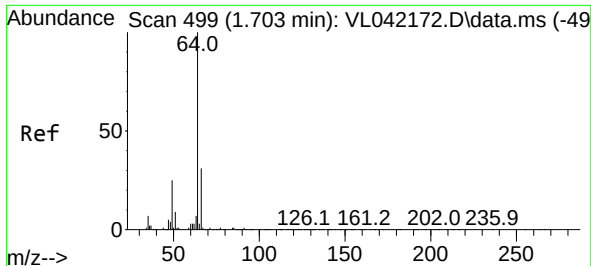
Tgt Ion: 62 Resp: 95578  
 Ion Ratio Lower Upper  
 62 100  
 64 31.8 26.6 40.0



#6  
 Bromomethane  
 Concen: 8.799 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. 0.003 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Tgt Ion: 94 Resp: 41950  
 Ion Ratio Lower Upper  
 94 100  
 96 94.4 73.1 109.7

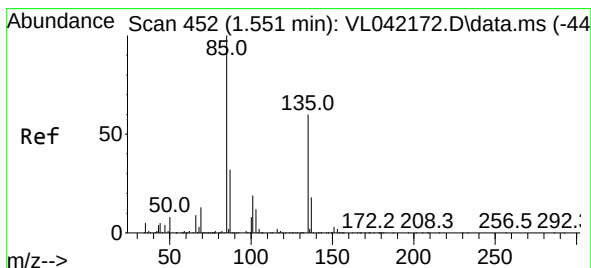
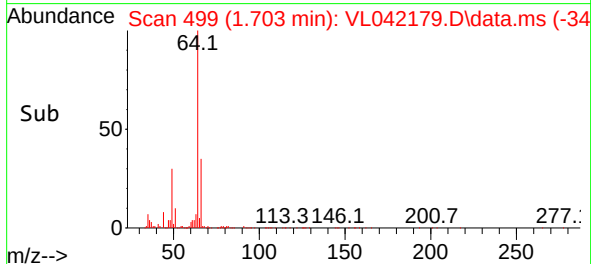
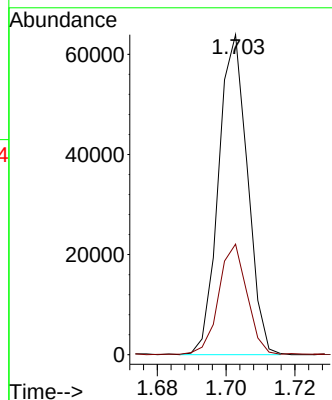
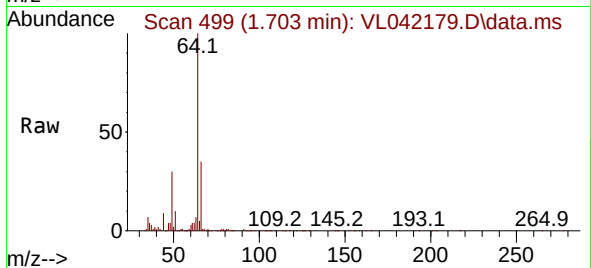




#7  
Chloroethane  
Concen: 8.856 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

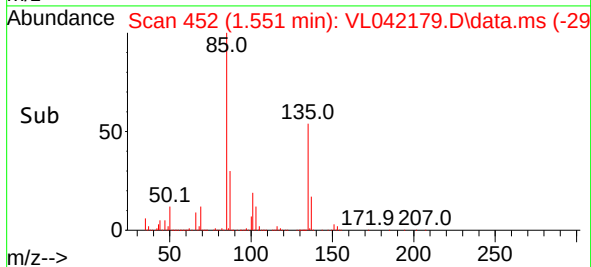
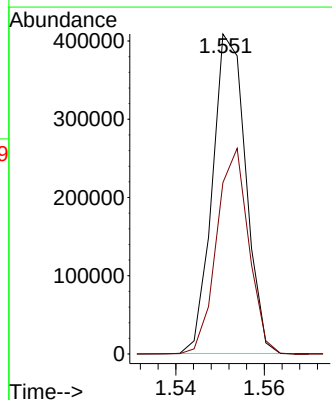
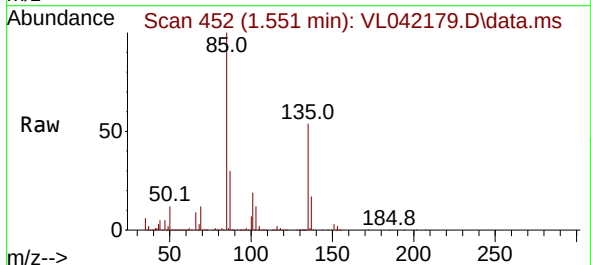
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

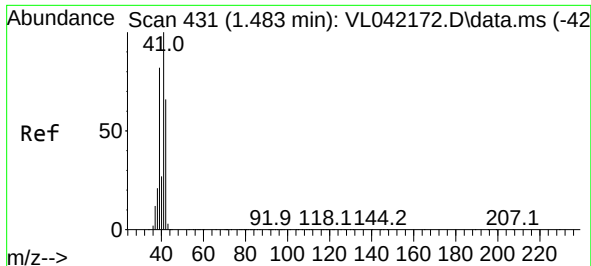
Tgt Ion: 64 Resp: 37400  
Ion Ratio Lower Upper  
64 100  
66 34.5 25.2 37.8



#8  
Dichlorotetrafluoroethane  
Concen: 9.753 ppbv  
RT: 1.551 min Scan# 452  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 85 Resp: 213819  
Ion Ratio Lower Upper  
85 100  
135 61.9 52.4 78.6

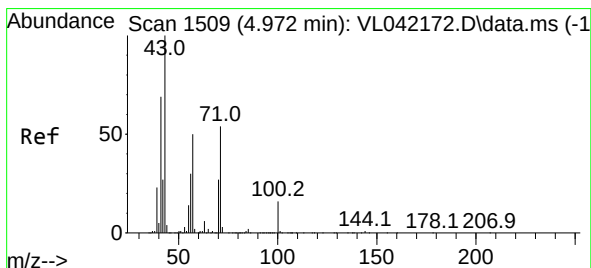
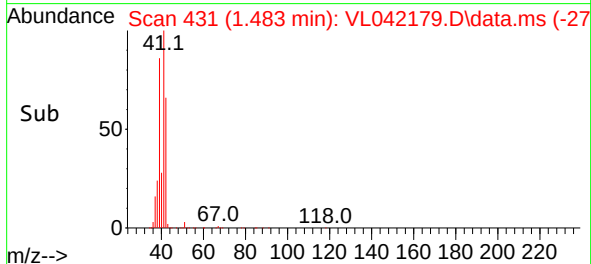
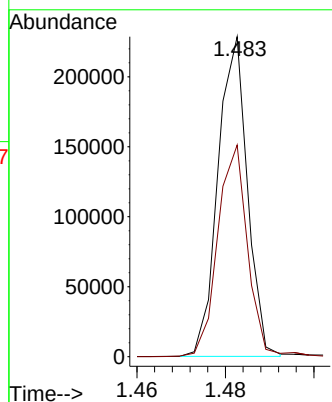
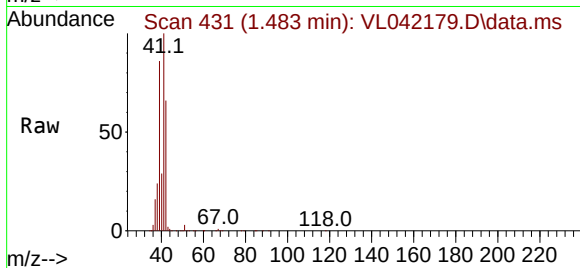




#9  
Propene  
Concen: 8.739 ppbv  
RT: 1.483 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

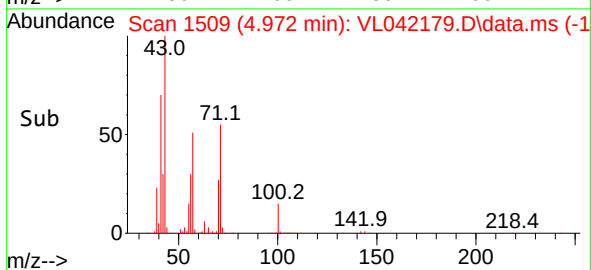
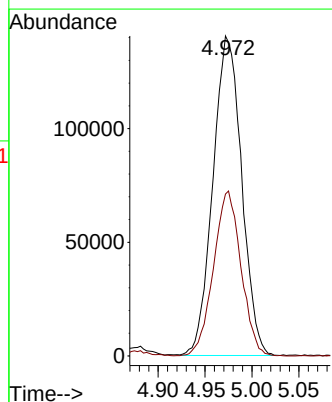
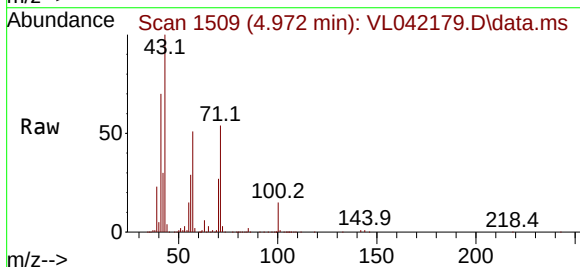
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

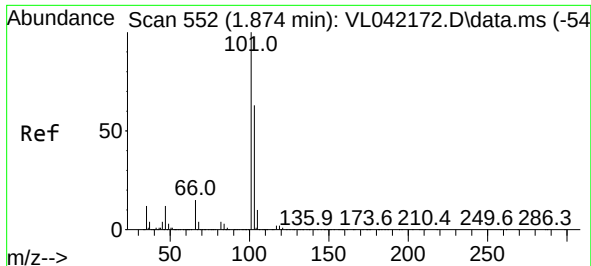
Tgt Ion: 41 Resp: 105338  
Ion Ratio Lower Upper  
41 100  
42 68.1 55.4 83.2



#10  
Heptane  
Concen: 9.318 ppbv  
RT: 4.972 min Scan# 1509  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 298768  
Ion Ratio Lower Upper  
43 100  
57 49.5 39.4 59.2

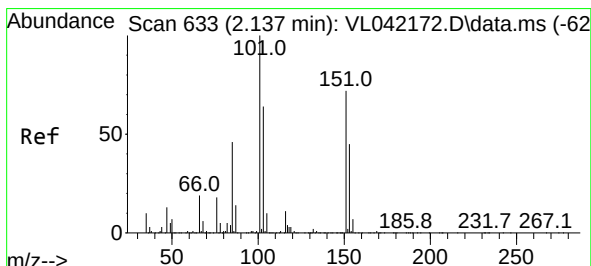
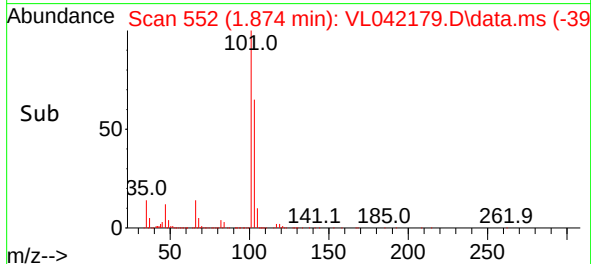
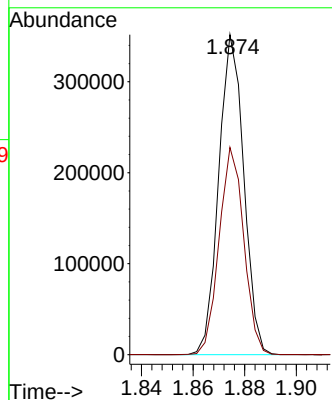
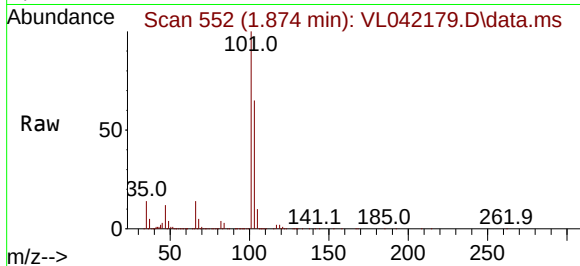




#11  
 Trichlorofluoromethane  
 Concen: 9.453 ppbv  
 RT: 1.874 min Scan# 511  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

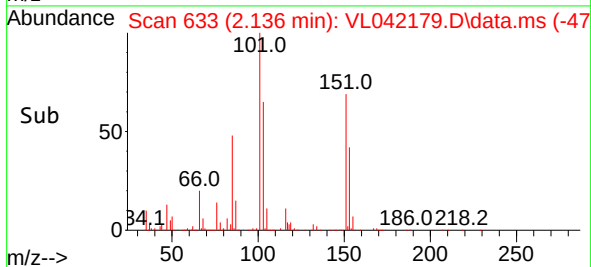
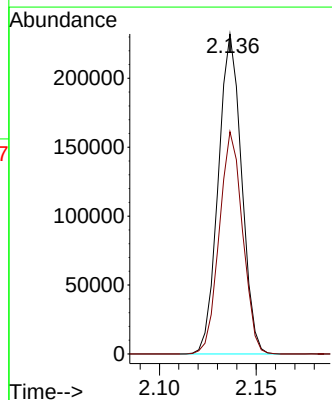
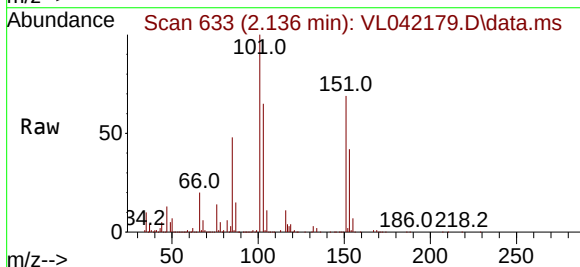
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL032725

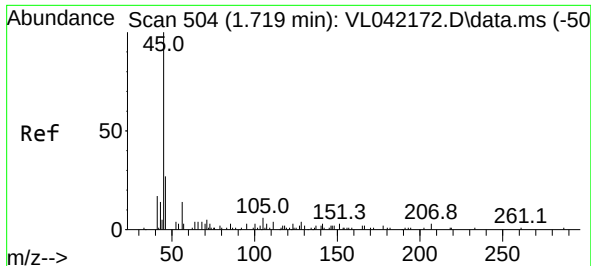
Tgt Ion:101 Resp: 236793  
 Ion Ratio Lower Upper  
 101 100  
 103 64.7 50.2 75.2



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.421 ppbv  
 RT: 2.136 min Scan# 633  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Tgt Ion:101 Resp: 193965  
 Ion Ratio Lower Upper  
 101 100  
 151 69.6 57.1 85.7

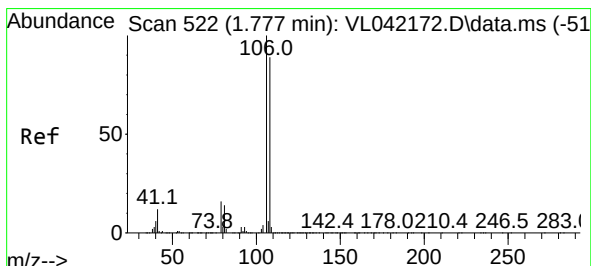
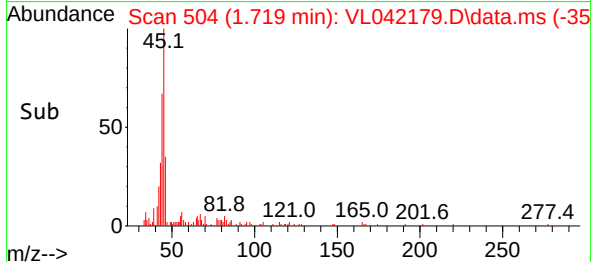
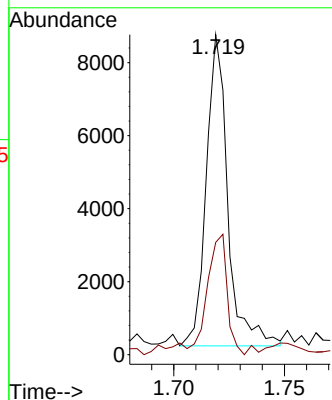
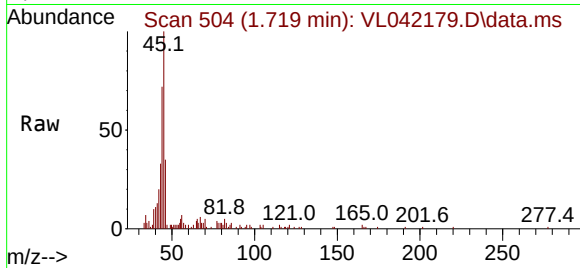




#13  
Ethanol  
Concen: 5.066 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

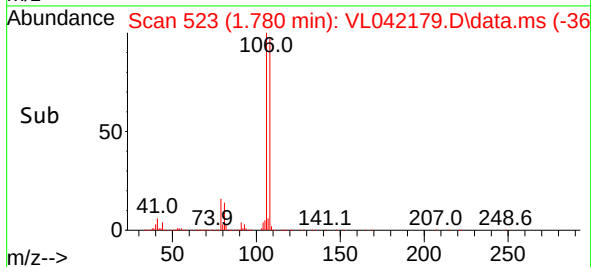
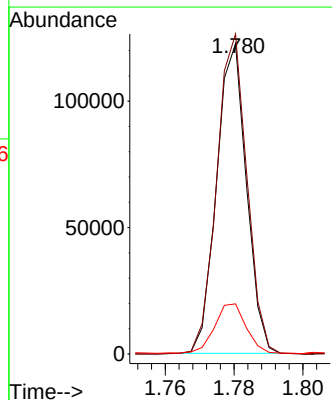
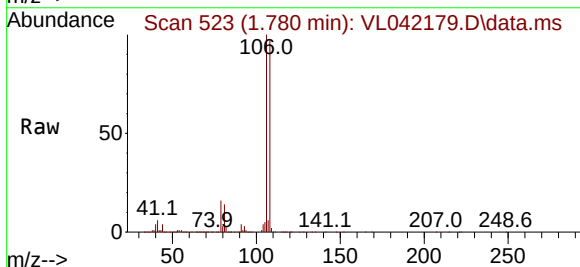
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL032725

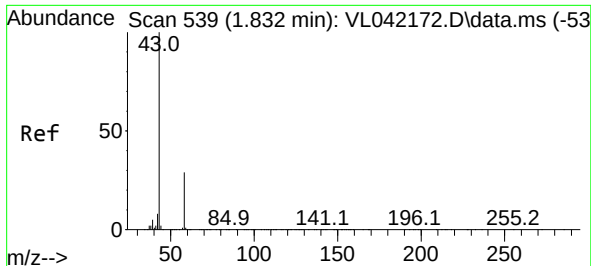
Tgt Ion: 45 Resp: 5773  
Ion Ratio Lower Upper  
45 100  
46 48.5 20.2 80.8



#14  
Bromoethene  
Concen: 9.328 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 108 Resp: 73572  
Ion Ratio Lower Upper  
108 100  
106 105.0 86.8 130.2  
79 18.8 15.0 22.6

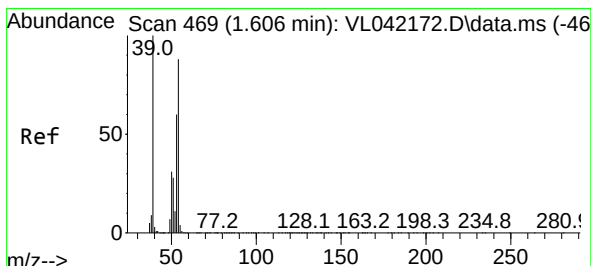
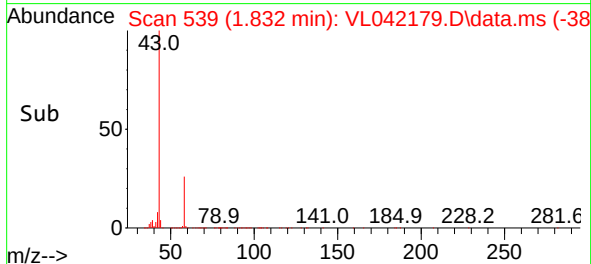
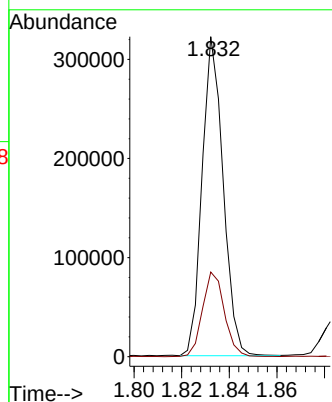
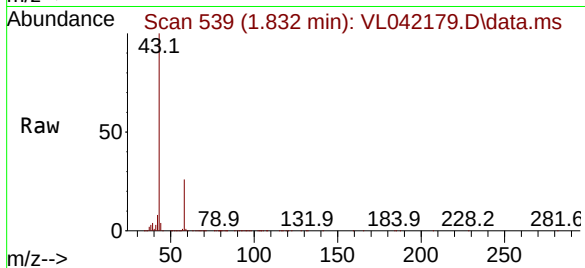




#15  
Acetone  
Concen: 8.132 ppbv  
RT: 1.832 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

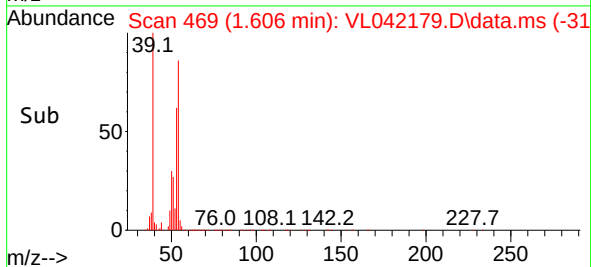
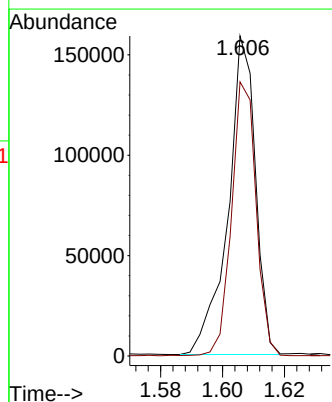
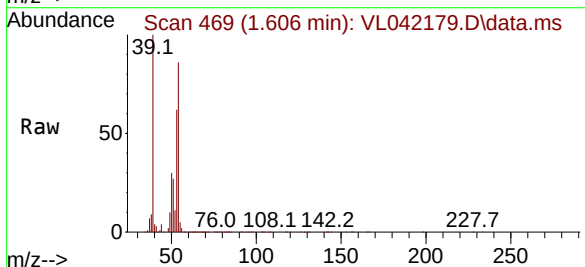
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

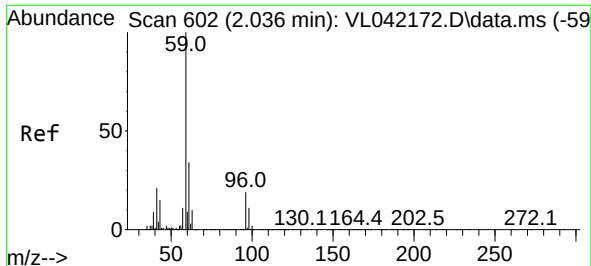
Tgt Ion: 43 Resp: 198300  
Ion Ratio Lower Upper  
43 100  
58 27.7 23.2 34.8



#16  
1,3-Butadiene  
Concen: 8.216 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 39 Resp: 97840  
Ion Ratio Lower Upper  
39 100  
54 76.9 60.7 91.1

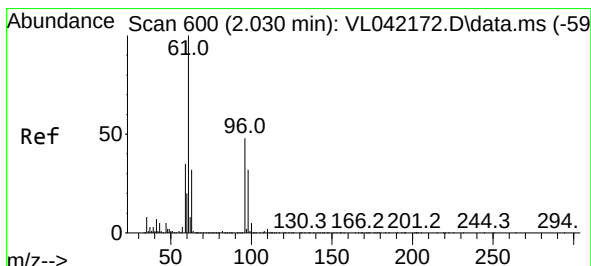
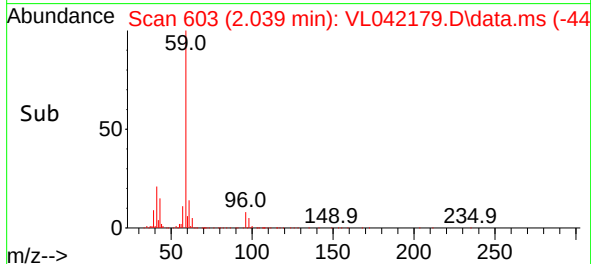
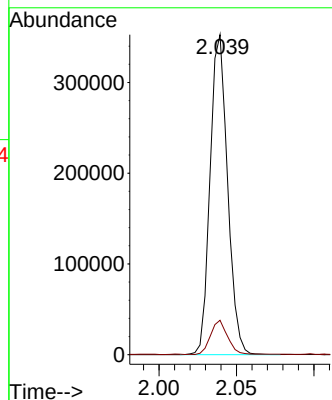
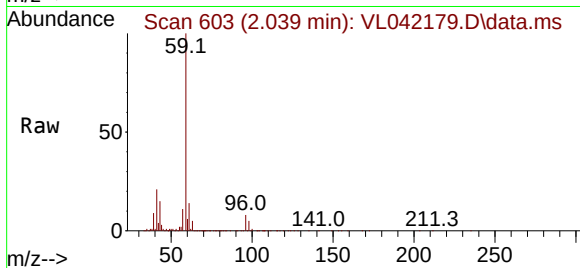




#17  
tert-Butyl alcohol  
Concen: 9.094 ppbv  
RT: 2.039 min Scan# 602  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

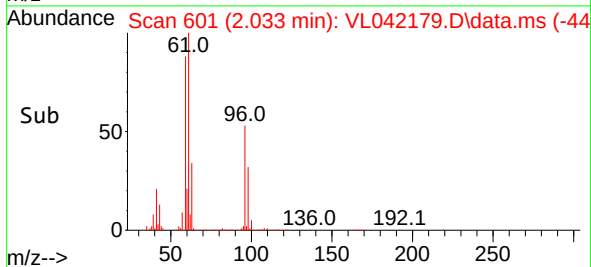
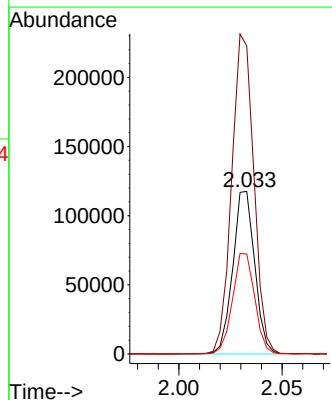
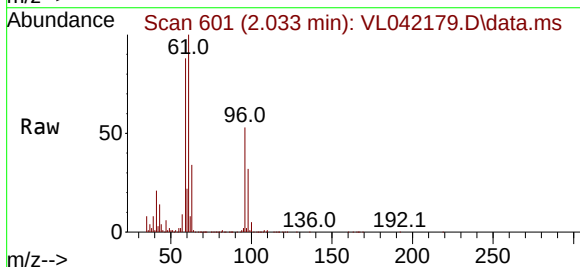
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL032725

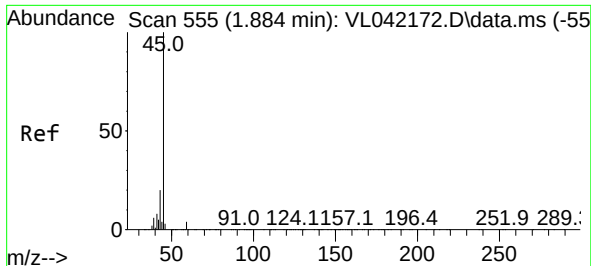
Tgt Ion: 59 Resp: 276195  
Ion Ratio Lower Upper  
59 100  
57 10.6 8.9 13.3



#18  
1,1-Dichloroethene  
Concen: 9.053 ppbv  
RT: 2.033 min Scan# 601  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 87137  
Ion Ratio Lower Upper  
96 100  
61 189.6 167.6 251.4  
98 61.5 53.5 80.3

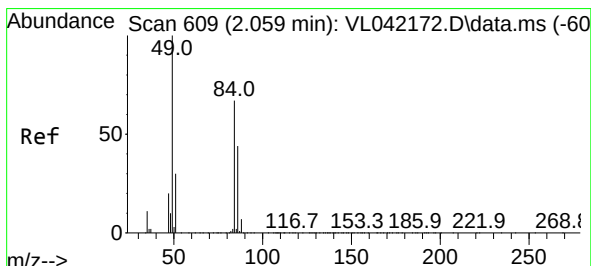
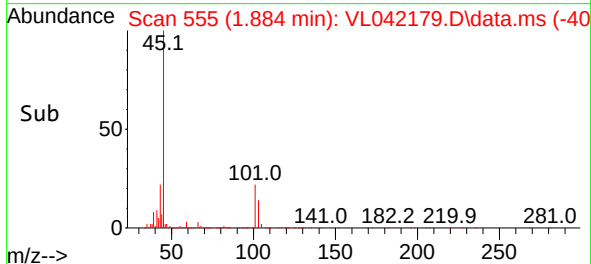
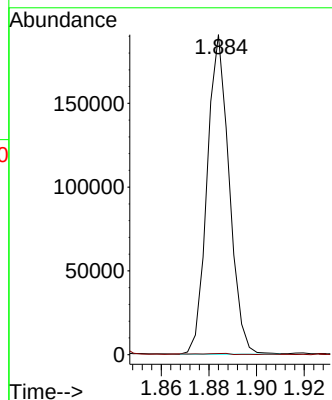
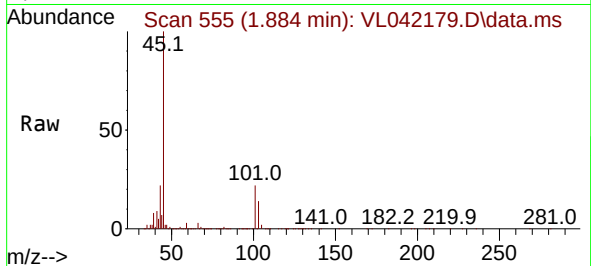




#19  
Isopropyl Alcohol  
Concen: 8.923 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

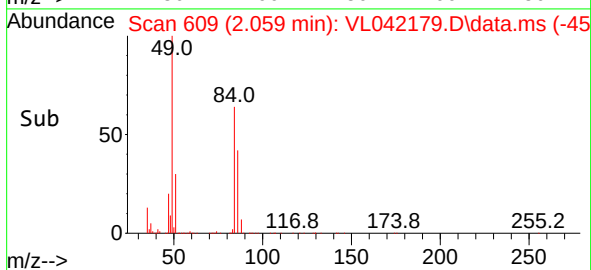
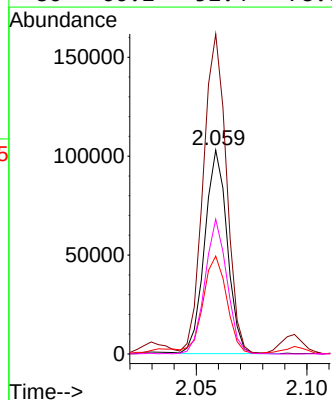
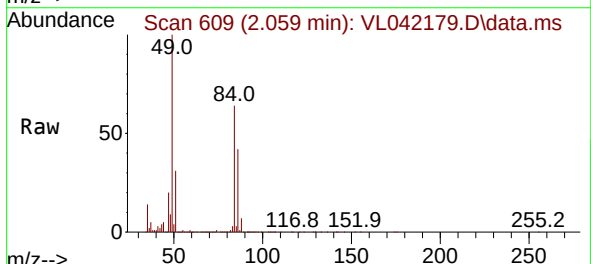
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

Tgt Ion: 45 Resp: 122768  
Ion Ratio Lower Upper  
45 100  
58 44.9 36.9 55.3

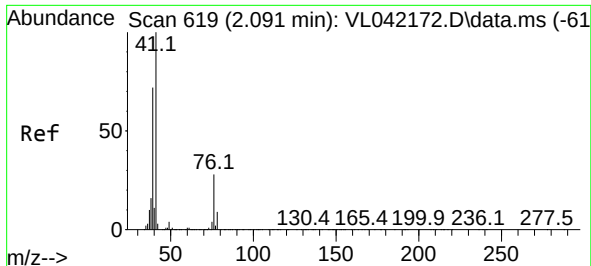


#20  
Methylene Chloride  
Concen: 8.018 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 84 Resp: 72813  
Ion Ratio Lower Upper  
84 100  
49 155.8 120.2 180.4  
51 46.4 37.4 56.0  
86 66.2 52.4 78.6



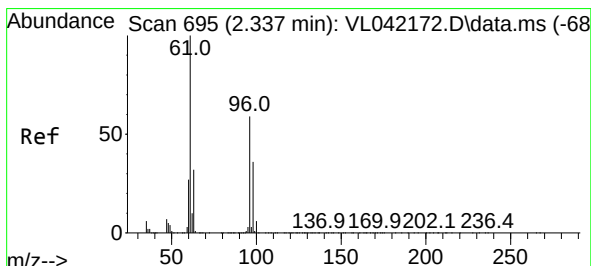
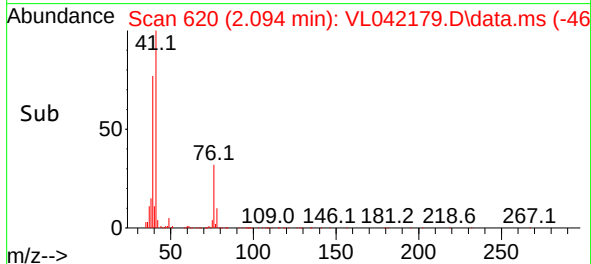
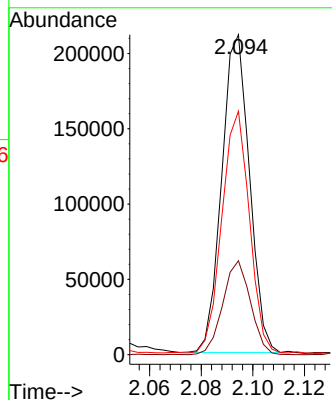
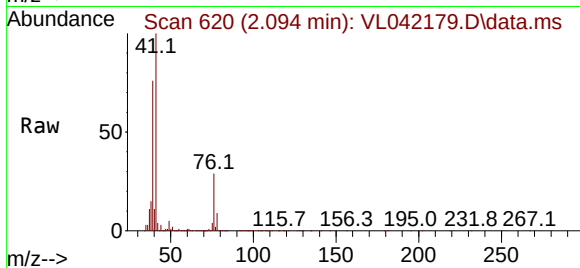




#21  
 Allyl Chloride  
 Concen: 9.154 ppbv  
 RT: 2.094 min Scan# 619  
 Delta R.T. 0.003 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

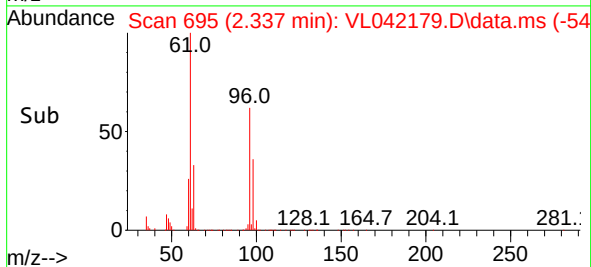
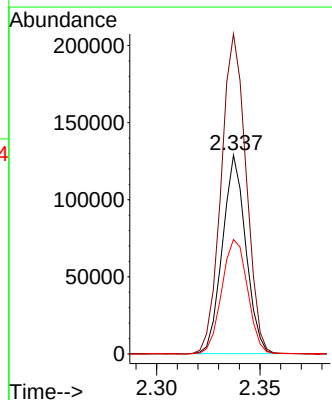
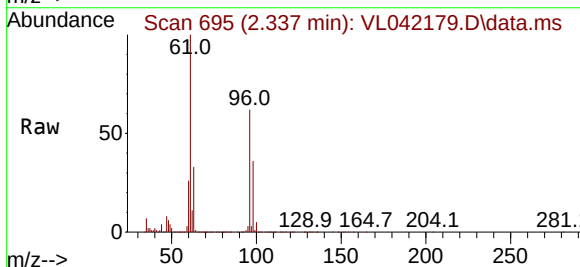
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL032725

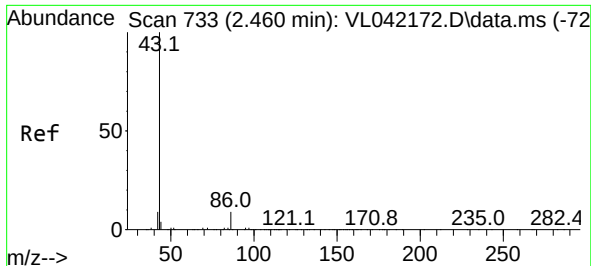
Tgt Ion: 41 Resp: 157418  
 Ion Ratio Lower Upper  
 41 100  
 76 29.6 24.1 36.1  
 39 75.5 61.1 91.7



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.092 ppbv  
 RT: 2.337 min Scan# 695  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 101141  
 Ion Ratio Lower Upper  
 96 100  
 61 161.2 136.6 204.8  
 98 57.7 49.4 74.2

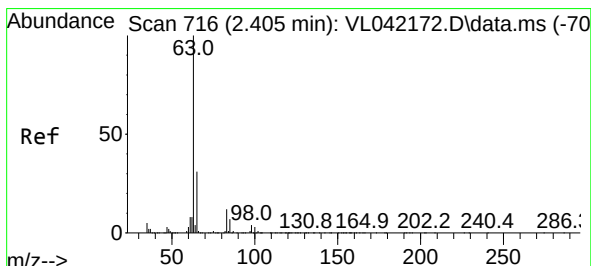
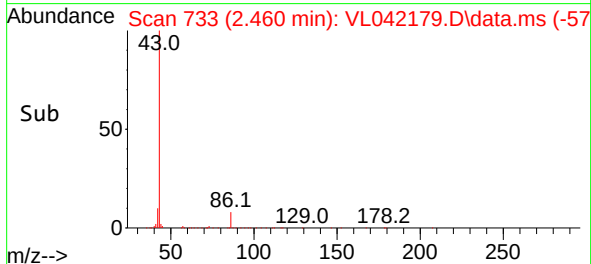
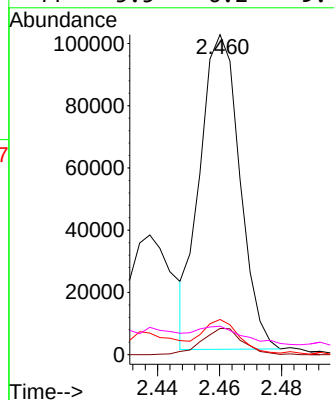
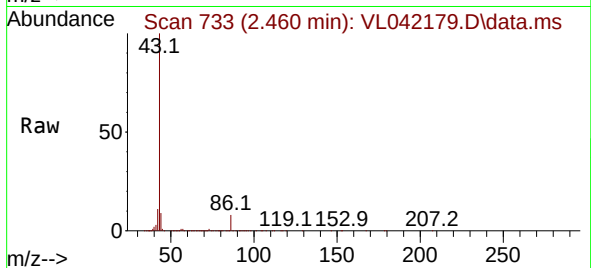




#23  
 Vinyl Acetate  
 Concen: 8.553 ppbv  
 RT: 2.460 min Scan# 716  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

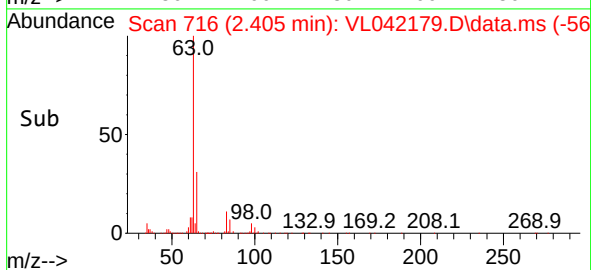
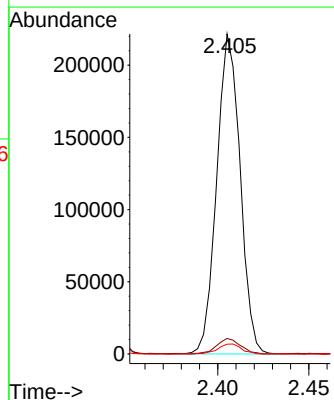
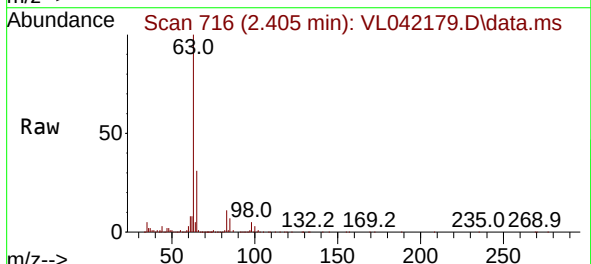
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL032725

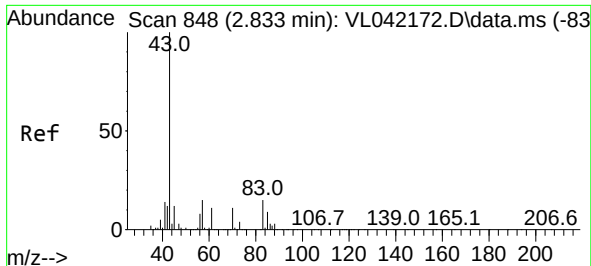
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 90260 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 8.3   | 5.5   | 8.3#  |
| 42       | 10.7  | 8.6   | 13.0  |
| 44       | 5.5   | 6.2   | 9.4#  |



#24  
 1,1-Dichloroethane  
 Concen: 9.600 ppbv  
 RT: 2.405 min Scan# 716  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 197968 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 4.8   | 2.3   | 6.8    |
| 100      | 3.0   | 1.6   | 4.7    |

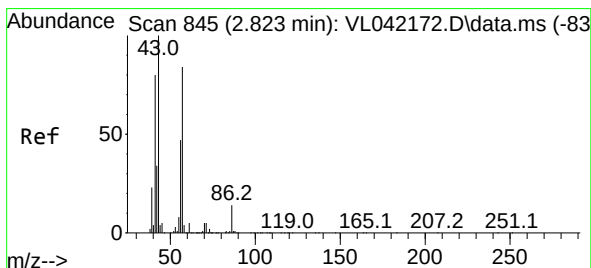
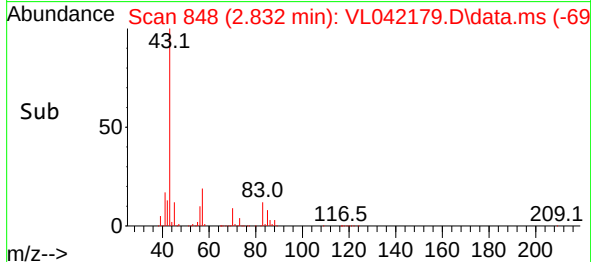
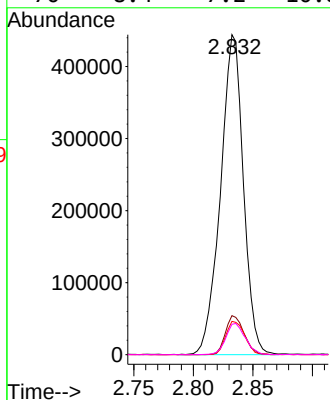
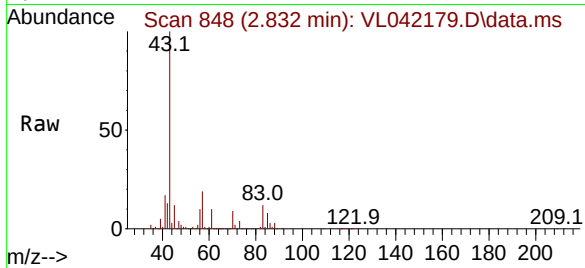




#25  
Ethyl Acetate  
Concen: 9.364 ppbv  
RT: 2.832 min Scan# 84  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

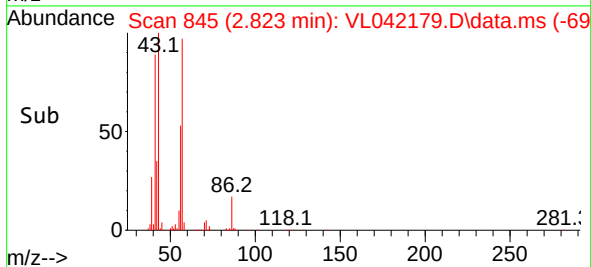
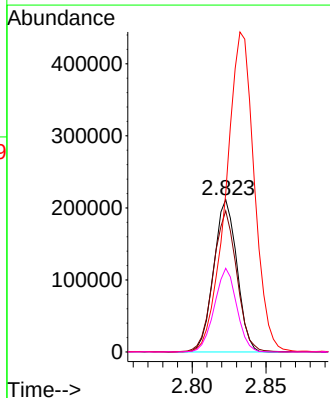
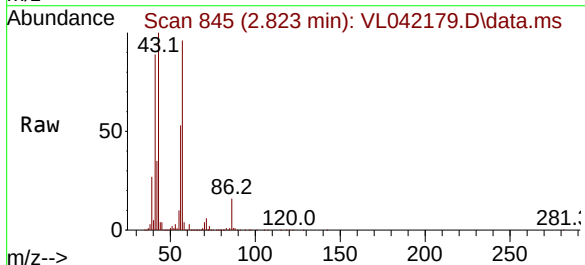
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

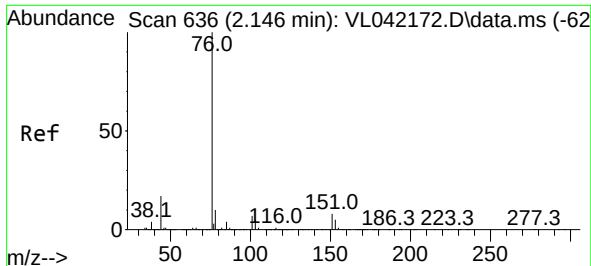
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 592585 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 45 9.9      | 8.2 12.2     |
| 61 8.7      | 7.3 10.9     |
| 70 8.4      | 7.2 10.8     |



#26  
Hexane  
Concen: 9.455 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 231125 |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 95.2     | 76.6 114.8   |
| 43 256.8    | 207.8 311.8  |
| 56 53.0     | 43.6 65.4    |

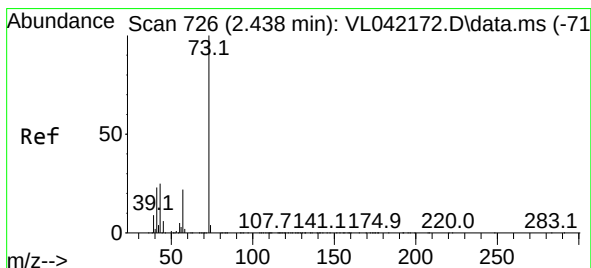
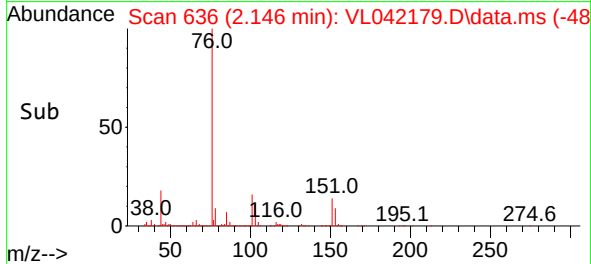
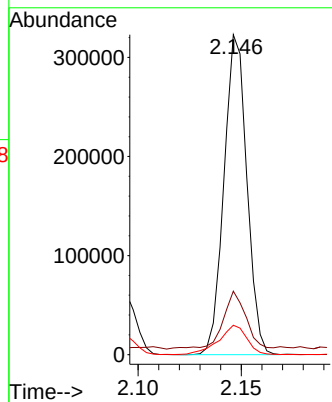
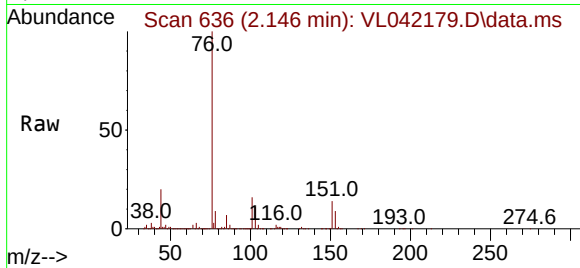




#27  
Carbon Disulfide  
Concen: 9.493 ppbv  
RT: 2.146 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

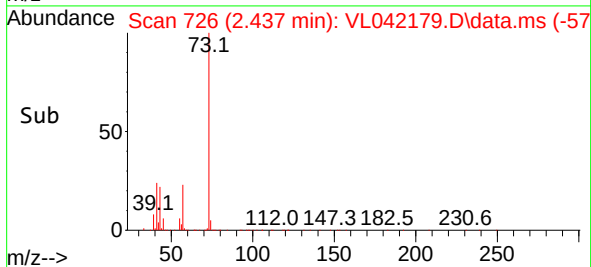
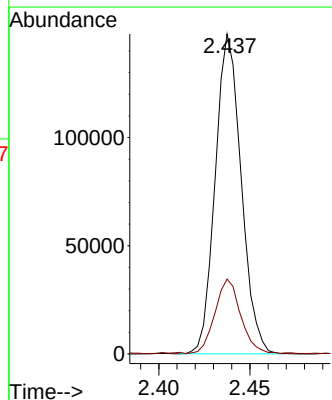
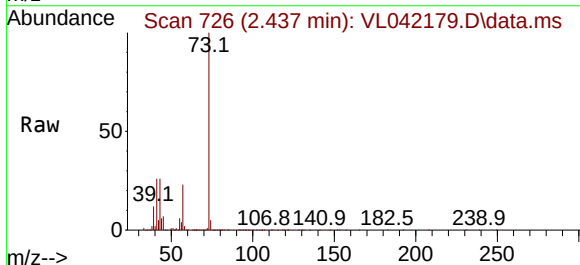
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL032725

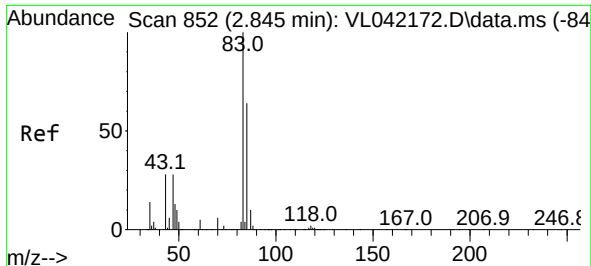
Tgt Ion: 76 Resp: 248834  
Ion Ratio Lower Upper  
76 100  
44 20.1 14.7 22.1  
78 11.3 9.3 13.9



#28  
Methyl tert-Butyl Ether  
Concen: 9.624 ppbv  
RT: 2.437 min Scan# 726  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 73 Resp: 146470  
Ion Ratio Lower Upper  
73 100  
57 23.3 20.5 30.7

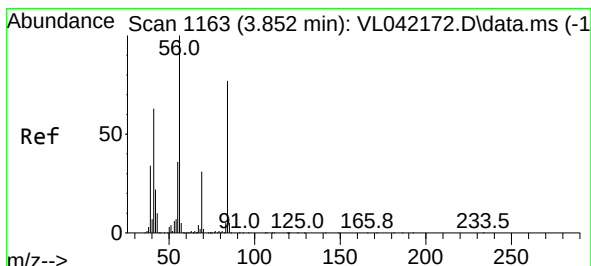
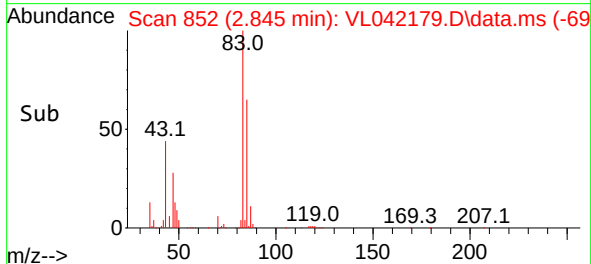
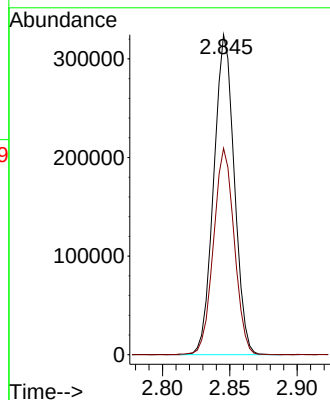
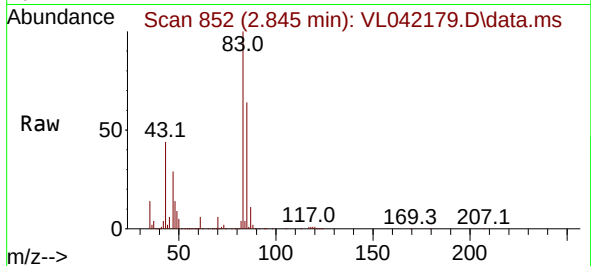




#29  
Chloroform  
Concen: 9.619 ppbv  
RT: 2.845 min Scan# 852  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

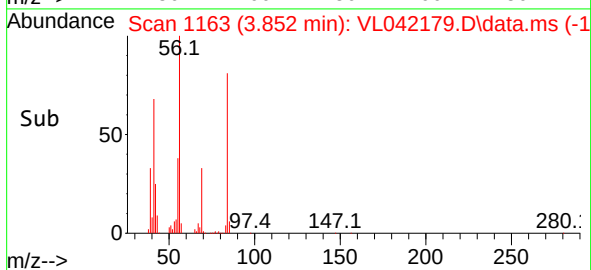
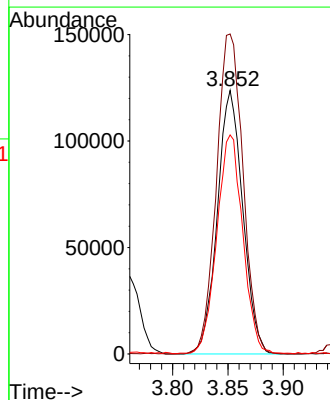
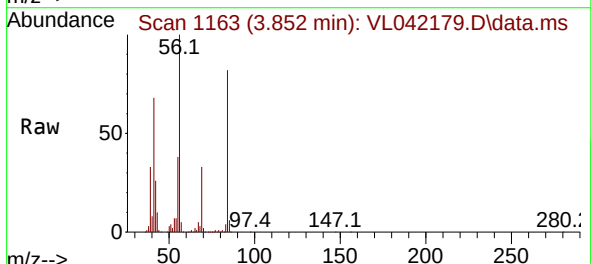
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

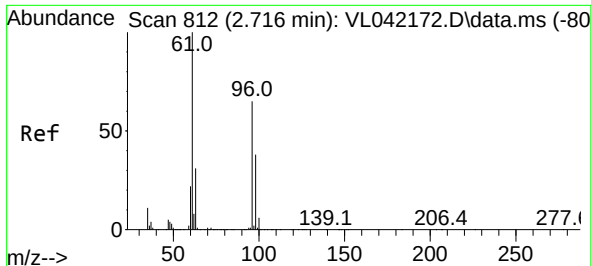
Tgt Ion: 83 Resp: 344106  
Ion Ratio Lower Upper  
83 100  
85 64.5 51.4 77.2



#30  
Cyclohexane  
Concen: 9.323 ppbv  
RT: 3.852 min Scan# 1163  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 84 Resp: 197897  
Ion Ratio Lower Upper  
84 100  
56 126.8 102.8 154.2  
41 84.6 66.5 99.7

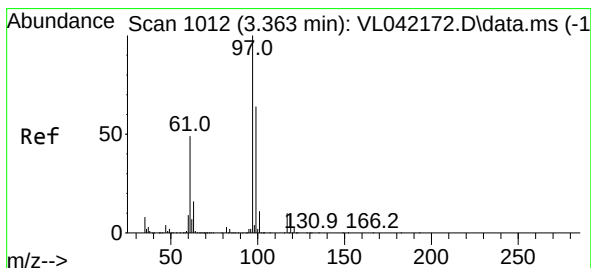
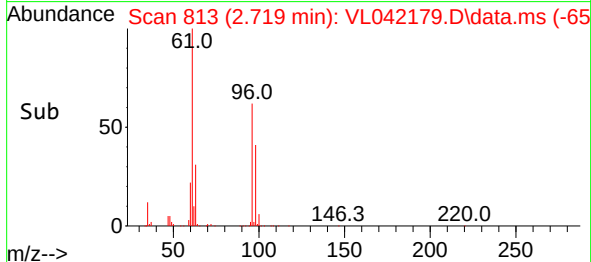
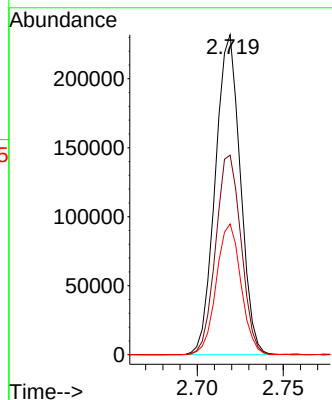
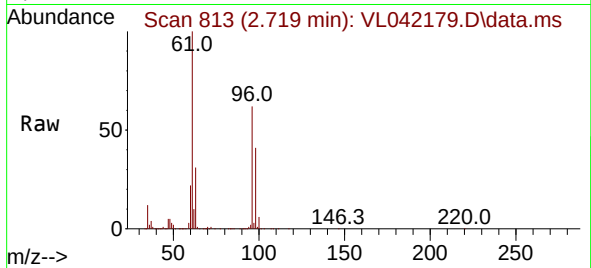




#31  
cis-1,2-Dichloroethene  
Concen: 9.449 ppbv  
RT: 2.719 min Scan# 812  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

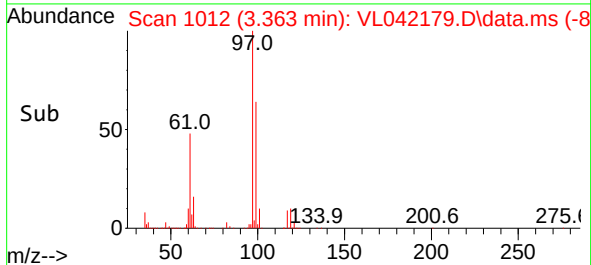
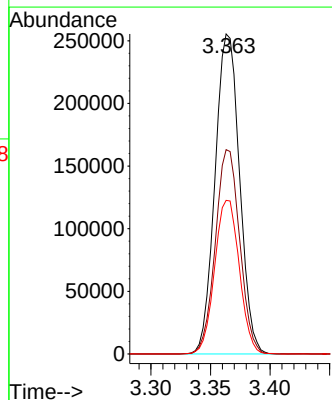
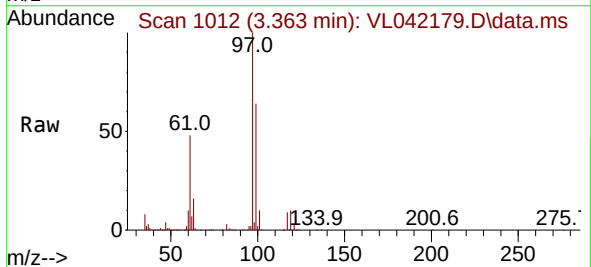
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

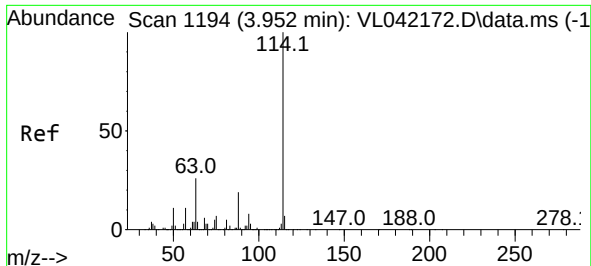
Tgt Ion: 61 Resp: 234487  
Ion Ratio Lower Upper  
61 100  
96 62.3 51.8 77.8  
98 40.9 30.6 46.0



#32  
1,1,1-Trichloroethane  
Concen: 8.921 ppbv  
RT: 3.363 min Scan# 1012  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 97 Resp: 365364  
Ion Ratio Lower Upper  
97 100  
99 63.4 51.5 77.3  
61 48.4 38.7 58.1

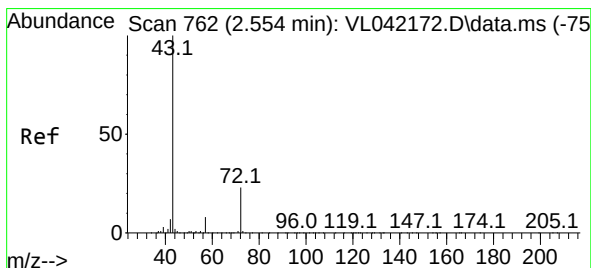
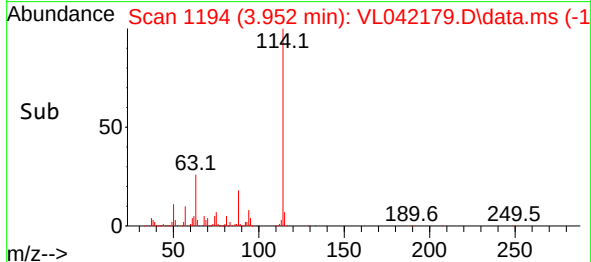
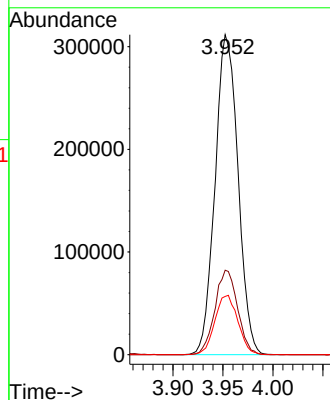
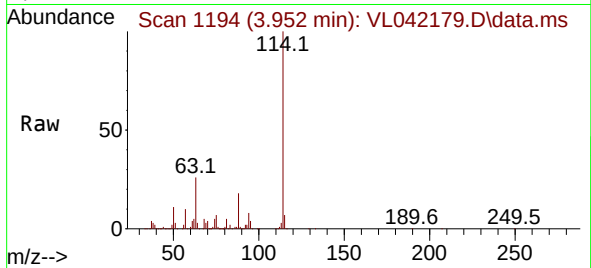




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.952 min Scan# 1194  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

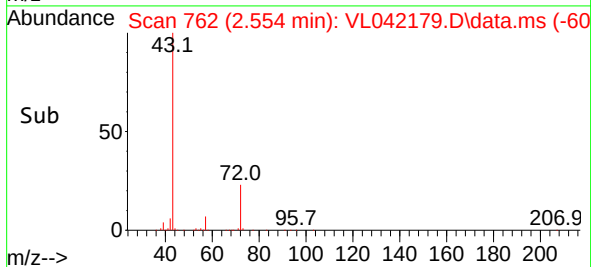
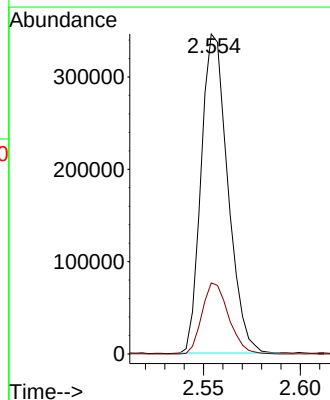
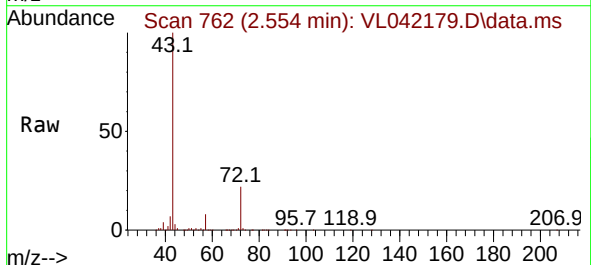
Instrument : MSVOA\_1  
ClientSampleId : ICVVL032725

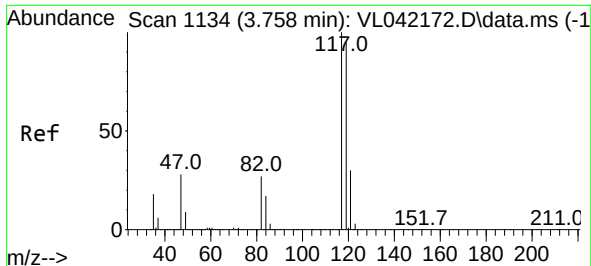
Tgt Ion:114 Resp: 498105  
Ion Ratio Lower Upper  
114 100  
63 26.1 20.7 31.1  
88 18.7 15.0 22.4



#34  
2-Butanone  
Concen: 9.171 ppbv  
RT: 2.554 min Scan# 762  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 331236  
Ion Ratio Lower Upper  
43 100  
72 22.2 18.2 27.2

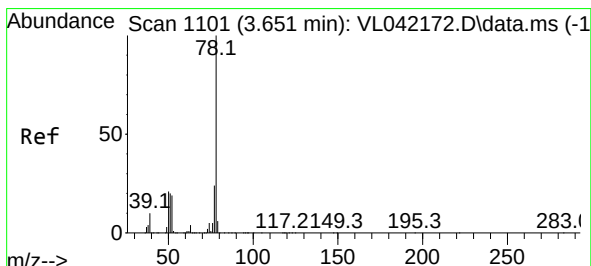
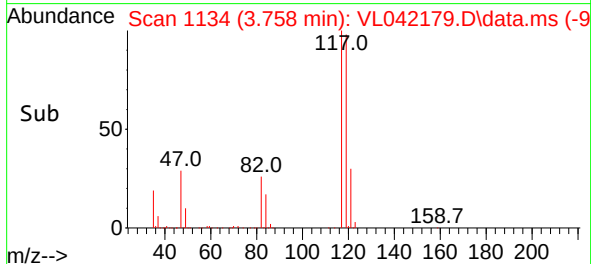
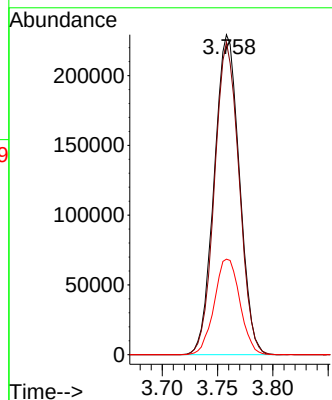
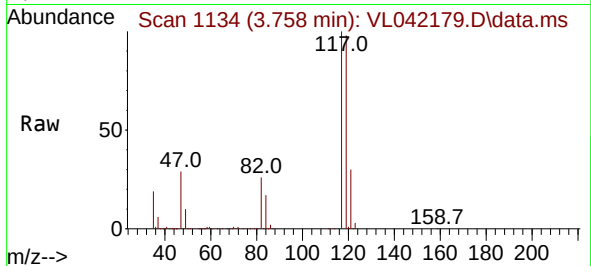




#35  
Carbon Tetrachloride  
Concen: 9.339 ppbv  
RT: 3.758 min Scan# 1134  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

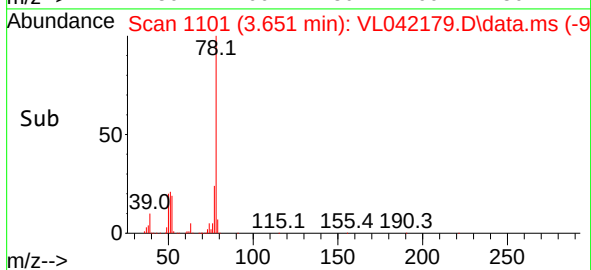
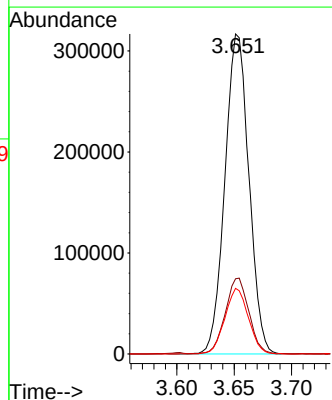
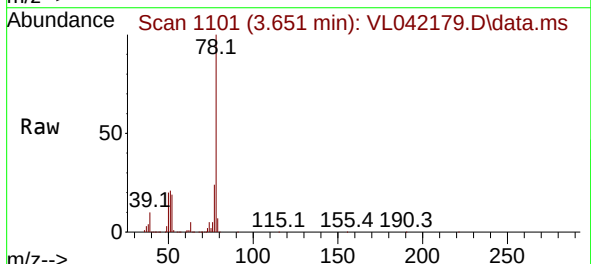
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL032725

Tgt Ion:117 Resp: 363392  
Ion Ratio Lower Upper  
117 100  
119 97.7 76.2 114.2  
121 29.9 24.2 36.4

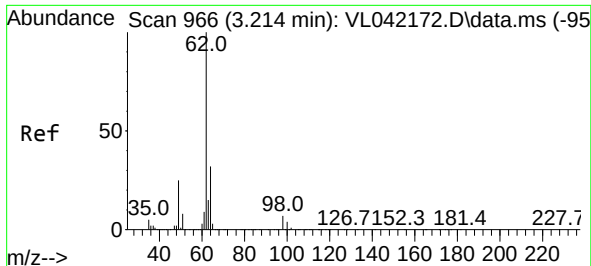


#36  
Benzene  
Concen: 9.341 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 78 Resp: 461261  
Ion Ratio Lower Upper  
78 100  
77 23.5 19.1 28.7  
50 20.4 16.6 24.8



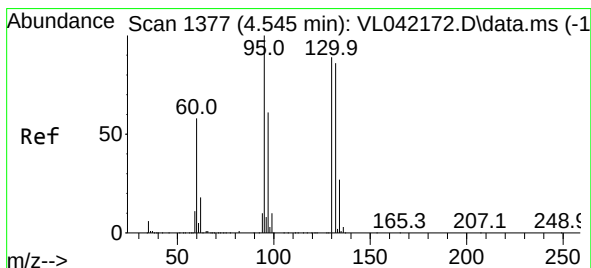
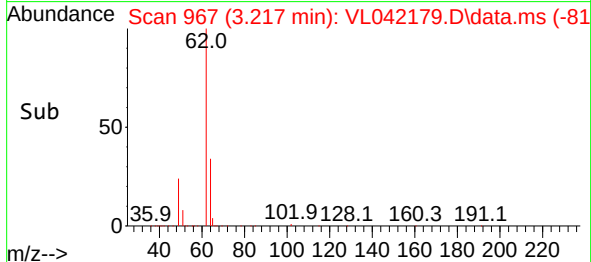
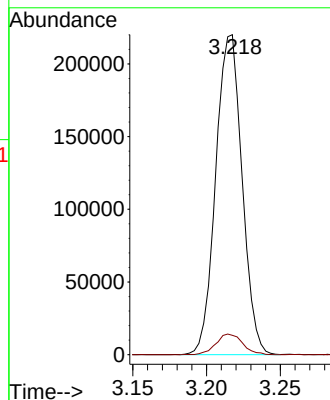
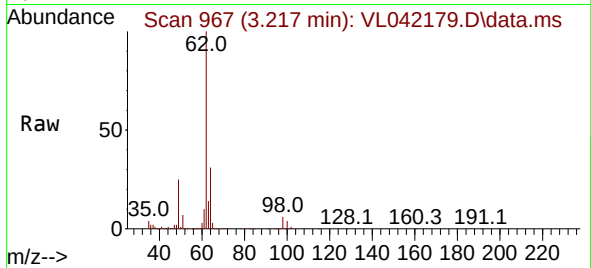




#37  
1,2-Dichloroethane  
Concen: 9.676 ppbv  
RT: 3.217 min Scan# 90  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

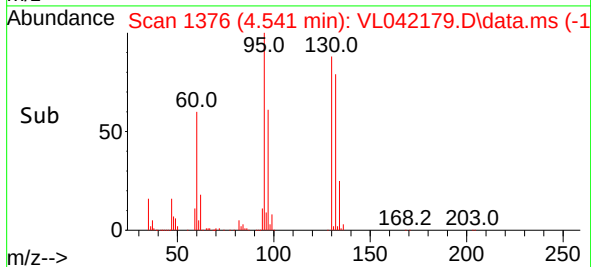
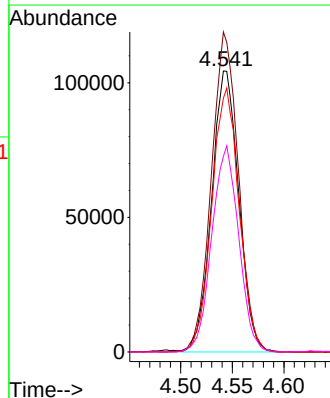
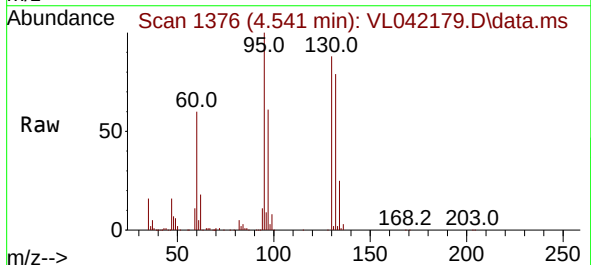
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL032725

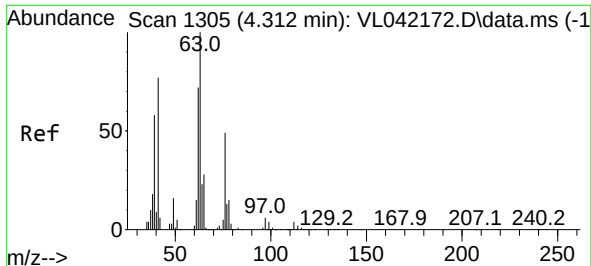
Tgt Ion: 62 Resp: 273559  
Ion Ratio Lower Upper  
62 100  
98 6.6 5.4 8.2



#38  
Trichloroethene  
Concen: 9.306 ppbv  
RT: 4.541 min Scan# 1376  
Delta R.T. -0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion:130 Resp: 191746  
Ion Ratio Lower Upper  
130 100  
95 113.9 89.8 134.8  
132 90.3 77.4 116.2  
97 69.6 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.500 ppbv

RT: 4.311 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL032725

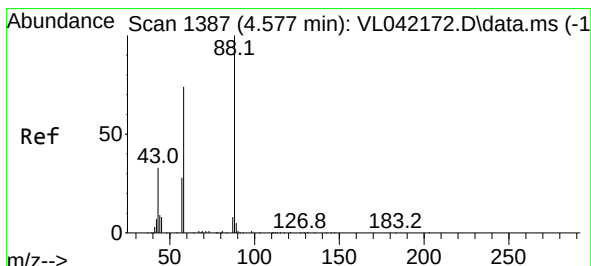
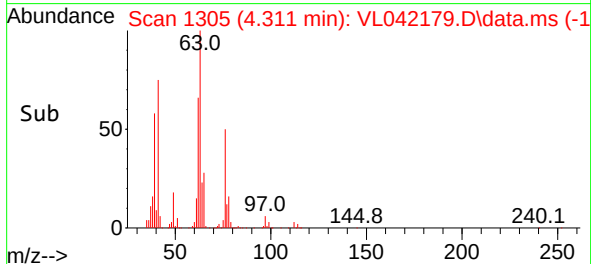
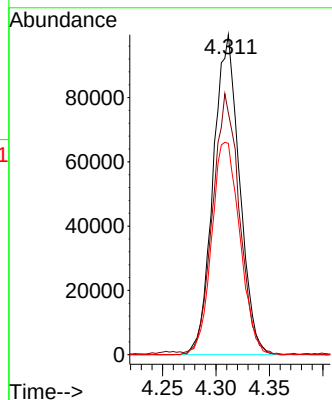
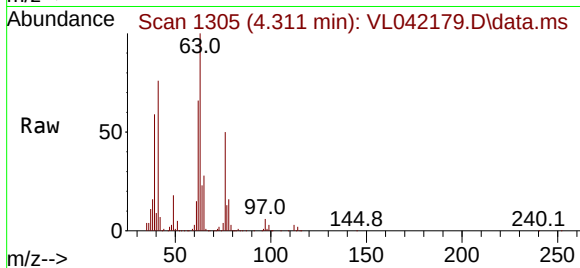
Tgt Ion: 63 Resp: 170839

Ion Ratio Lower Upper

63 100

41 75.3 61.7 92.5

62 66.0 57.6 86.4



#40

1,4-Dioxane

Concen: 8.443 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion: 88 Resp: 80592

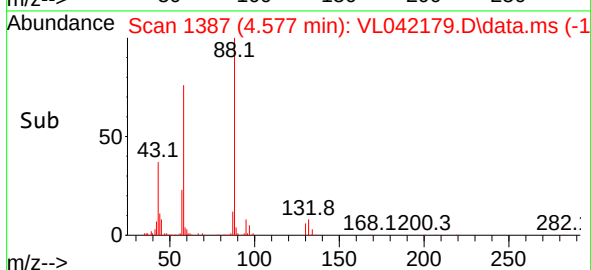
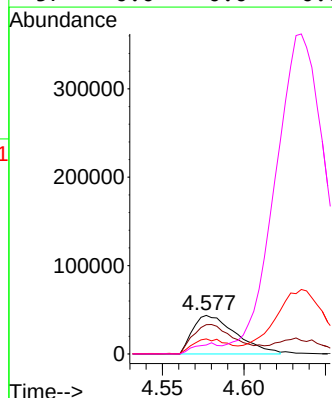
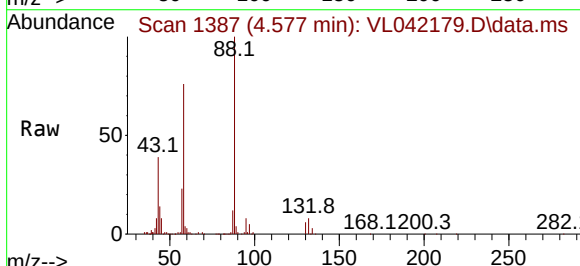
Ion Ratio Lower Upper

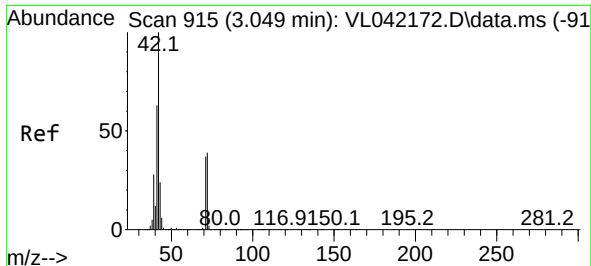
88 100

58 76.2 62.7 94.1

43 31.4 23.0 34.4

57 0.0 0.0 0.0

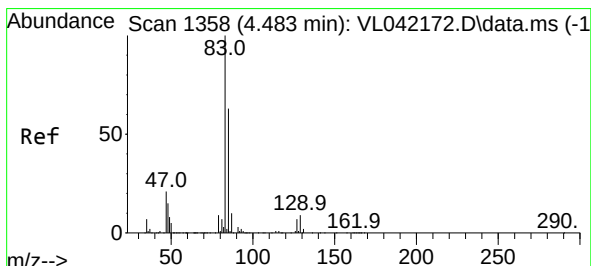
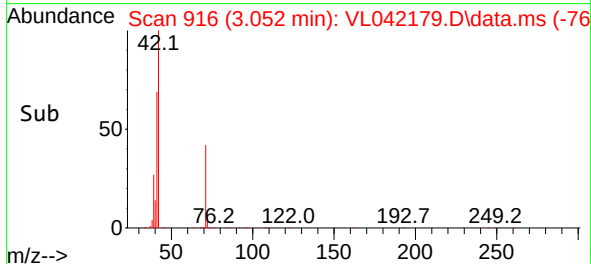
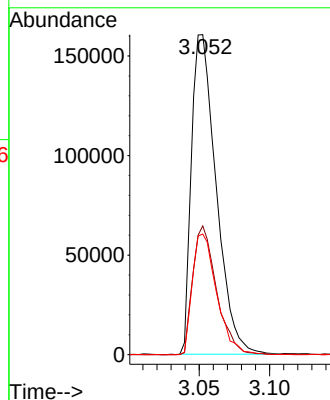
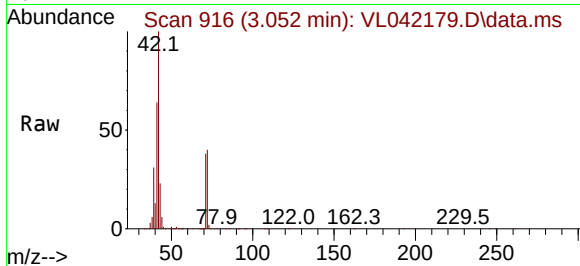




#41  
Tetrahydrofuran  
Concen: 9.431 ppbv  
RT: 3.052 min Scan# 915  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

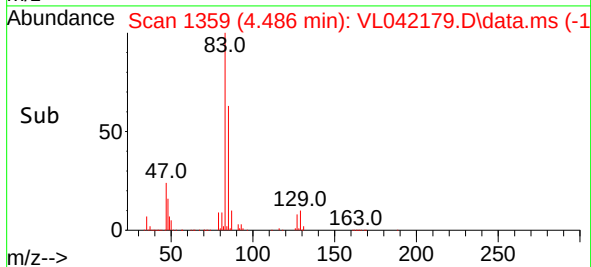
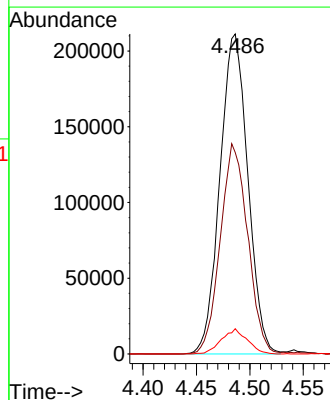
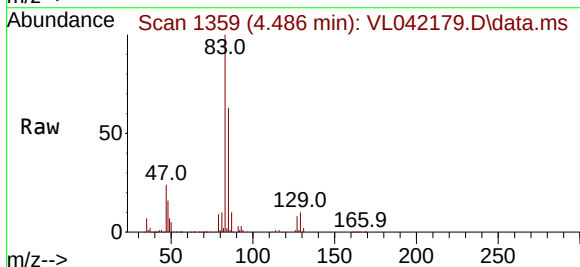
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

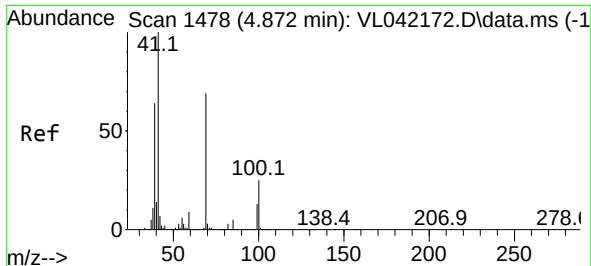
Tgt Ion: 42 Resp: 196163  
Ion Ratio Lower Upper  
42 100  
72 38.9 31.4 47.0  
71 37.2 30.2 45.4



#42  
Bromodichloromethane  
Concen: 9.853 ppbv  
RT: 4.486 min Scan# 1359  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 83 Resp: 384006  
Ion Ratio Lower Upper  
83 100  
85 63.0 50.5 75.7  
127 7.9 5.9 8.9

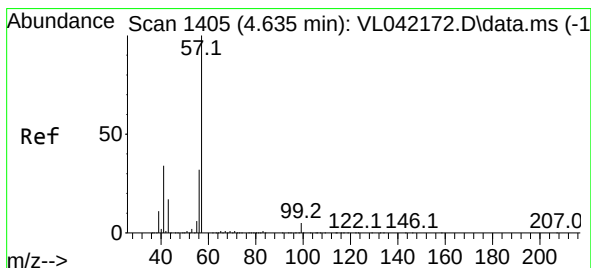
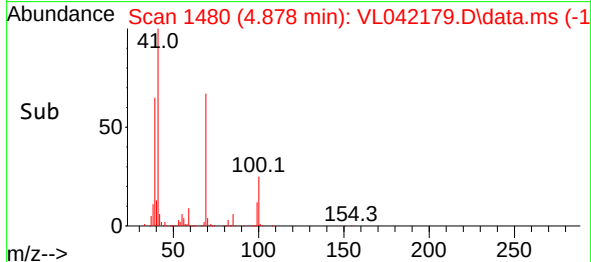
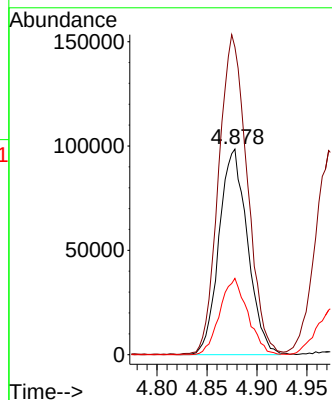
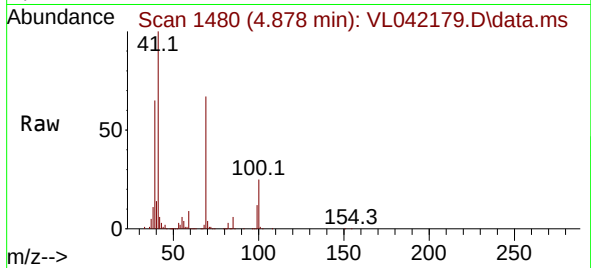




#43  
Methyl Methacrylate  
Concen: 9.344 ppbv  
RT: 4.878 min Scan# 1478  
Delta R.T. 0.006 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

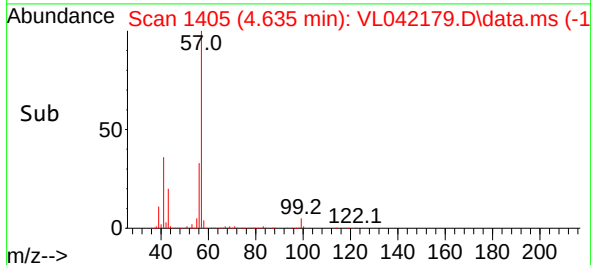
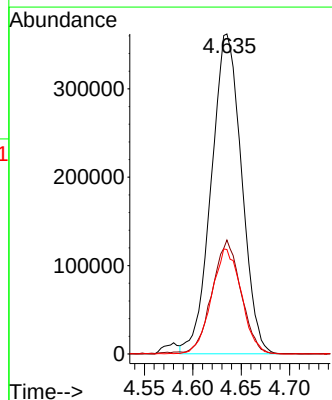
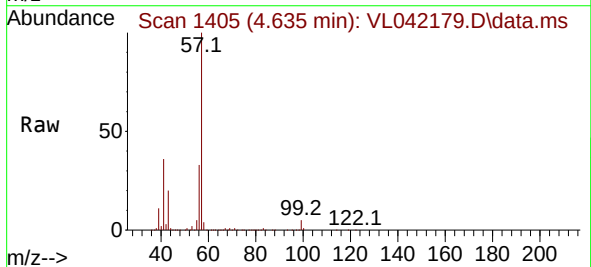
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL032725

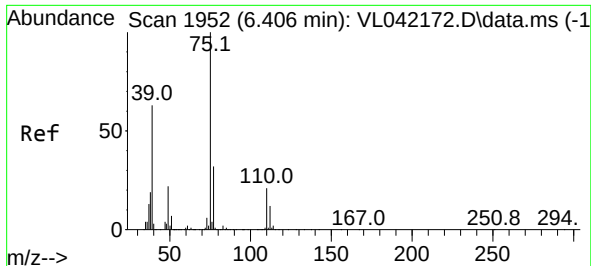
Tgt Ion: 69 Resp: 195339  
Ion Ratio Lower Upper  
69 100  
41 156.4 123.8 185.6  
100 36.4 28.4 42.6



#44  
2,2,4-Trimethylpentane  
Concen: 9.436 ppbv  
RT: 4.635 min Scan# 1405  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 57 Resp: 787400  
Ion Ratio Lower Upper  
57 100  
41 34.3 26.8 40.2  
56 32.5 25.6 38.4

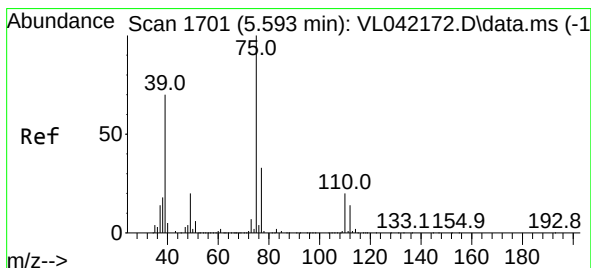
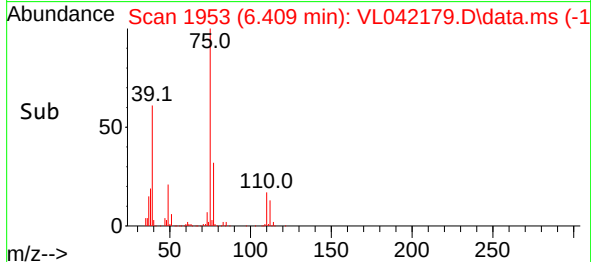
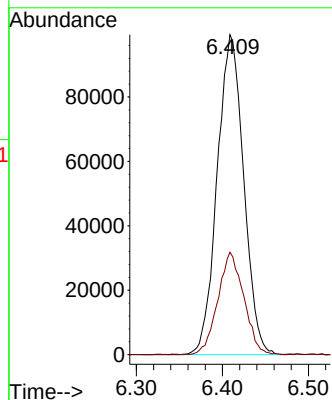
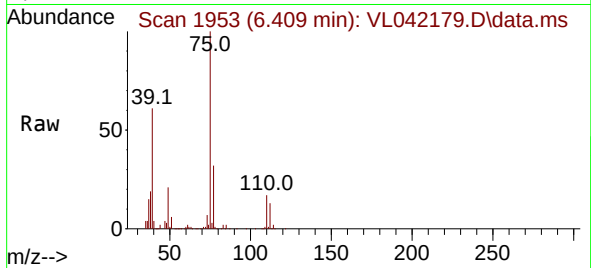




#45  
 t-1,3-Dichloropropene  
 Concen: 9.467 ppbv  
 RT: 6.409 min Scan# 1952  
 Delta R.T. 0.003 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

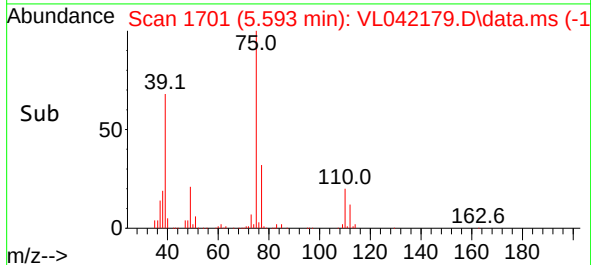
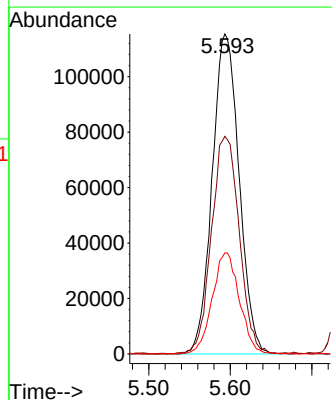
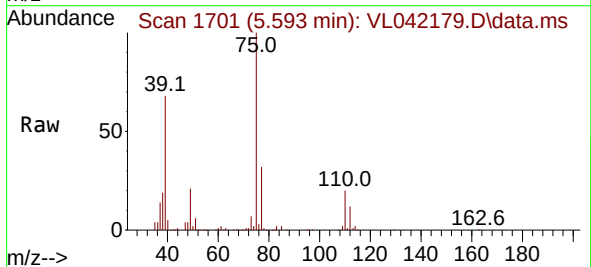
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 ClientSampleId :  
 ICVVL032725

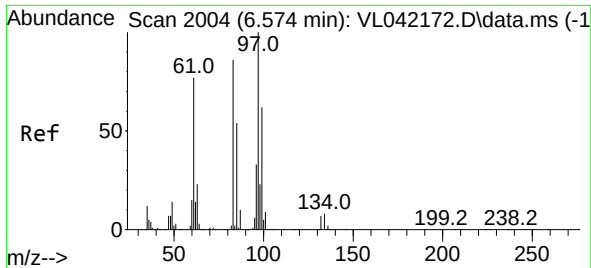
Tgt Ion: 75 Resp: 212335  
 Ion Ratio Lower Upper  
 75 100  
 77 32.0 26.0 39.0



#46  
 cis-1,3-Dichloropropene  
 Concen: 9.643 ppbv  
 RT: 5.593 min Scan# 1701  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Tgt Ion: 75 Resp: 265101  
 Ion Ratio Lower Upper  
 75 100  
 39 67.8 55.8 83.6  
 77 31.6 26.0 39.0

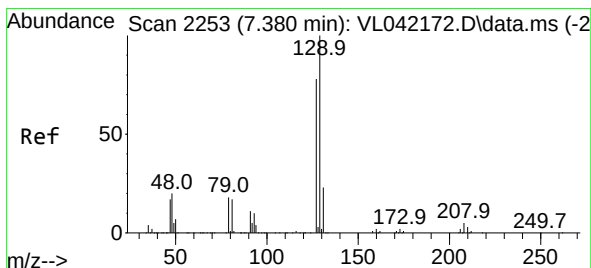
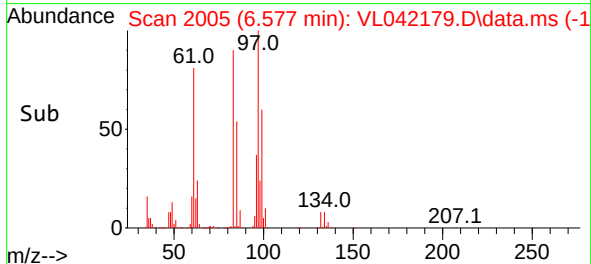
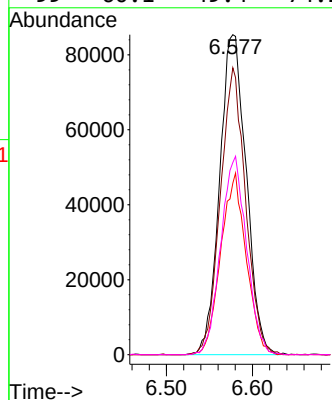
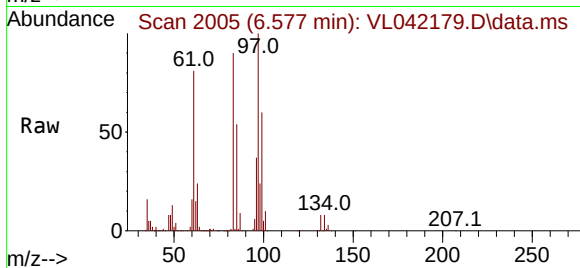




#47  
 1,1,2-Trichloroethane  
 Concen: 9.638 ppbv  
 RT: 6.577 min Scan# 2005  
 Delta R.T. 0.003 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

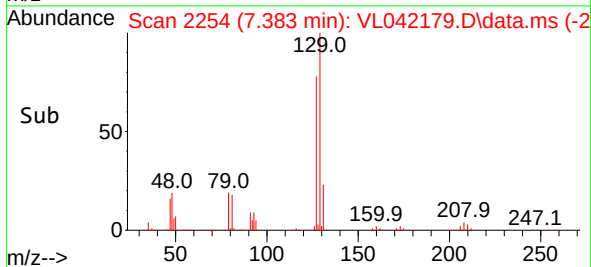
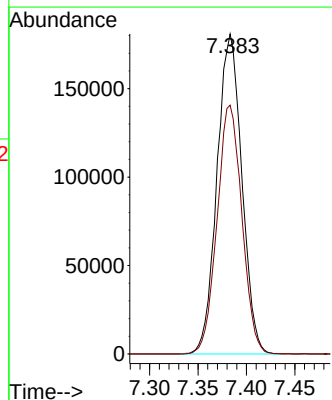
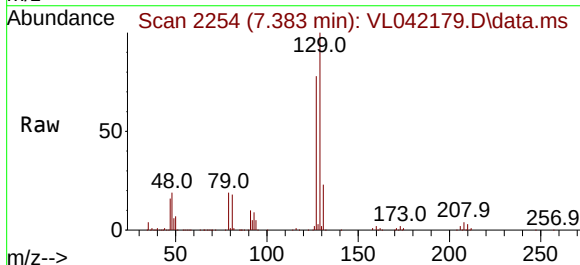
Instrument : MSVOA\_1  
 ClientSampleId : ICVVL032725

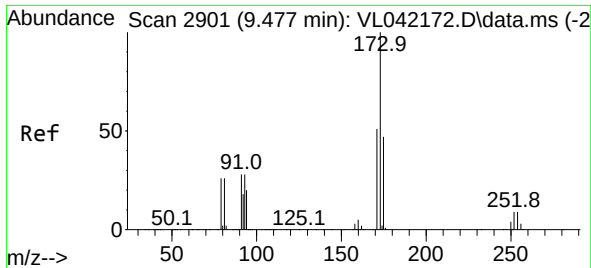
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 183228 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 89.7  | 69.2  | 103.8  |
| 85       | 53.6  | 43.1  | 64.7   |
| 99       | 60.1  | 49.4  | 74.2   |



#48  
 Dibromochloromethane  
 Concen: 10.018 ppbv  
 RT: 7.383 min Scan# 2254  
 Delta R.T. 0.003 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 322766 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 77.7  | 39.1  | 117.2  |

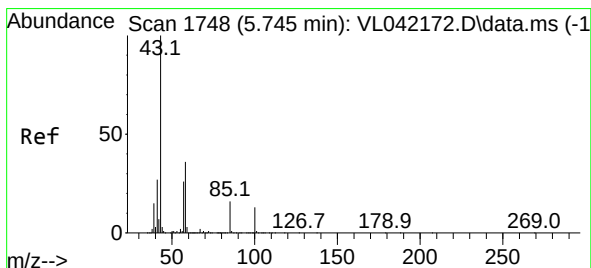
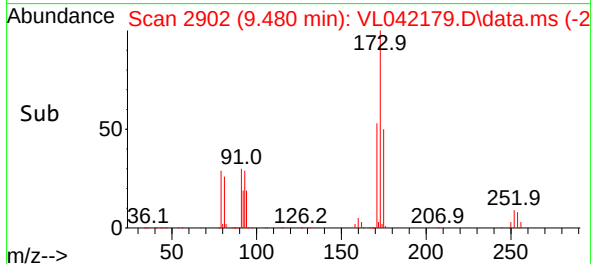
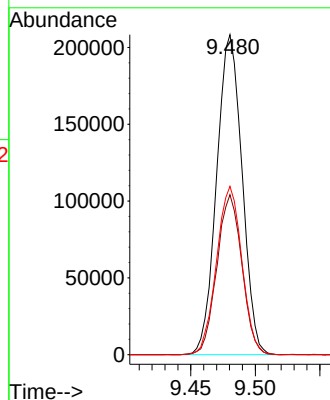
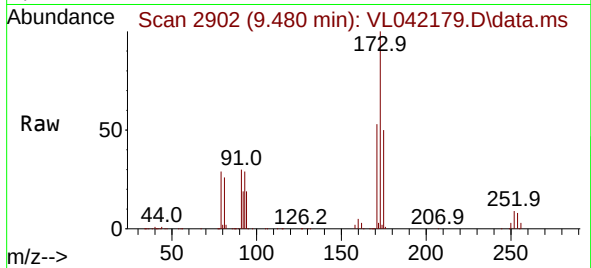




#49  
Bromoform  
Concen: 9.858 ppbv  
RT: 9.480 min Scan# 2901  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

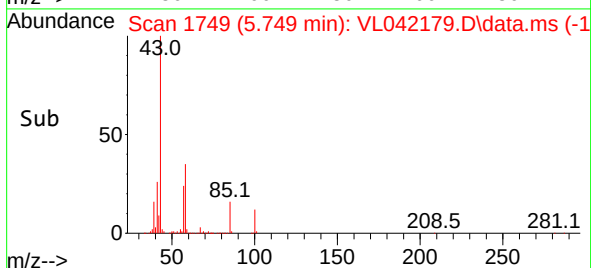
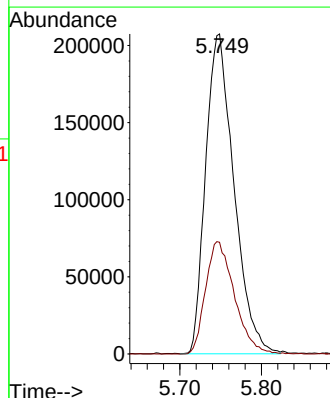
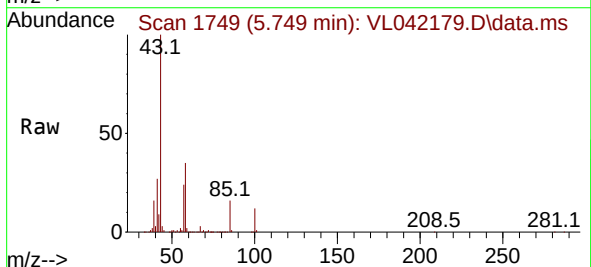
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

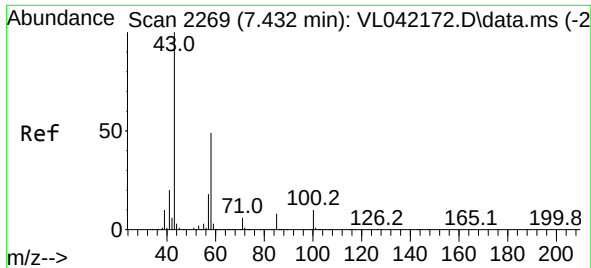
Tgt Ion:173 Resp: 285149  
Ion Ratio Lower Upper  
173 100  
175 49.2 38.6 57.8  
171 52.4 41.8 62.6



#50  
4-Methyl-2-Pentanone  
Concen: 8.749 ppbv  
RT: 5.749 min Scan# 1749  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 500791  
Ion Ratio Lower Upper  
43 100  
58 35.8 29.0 43.6

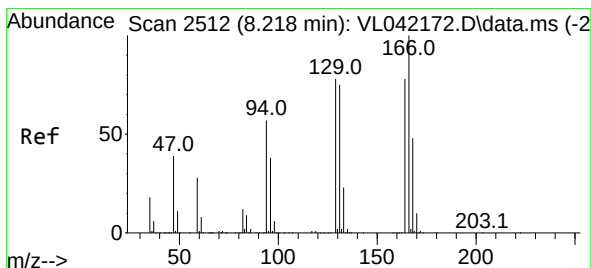
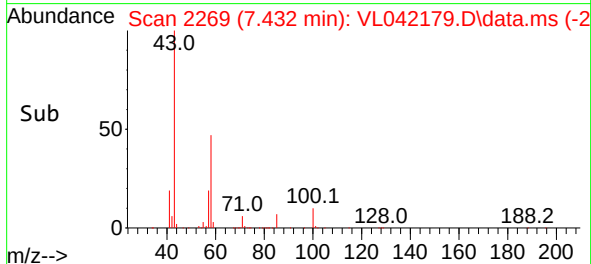
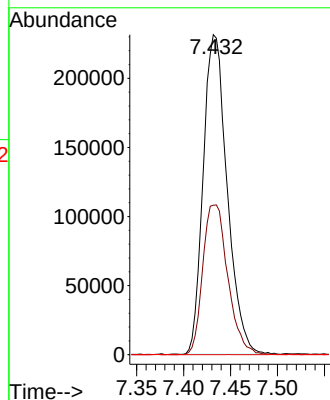
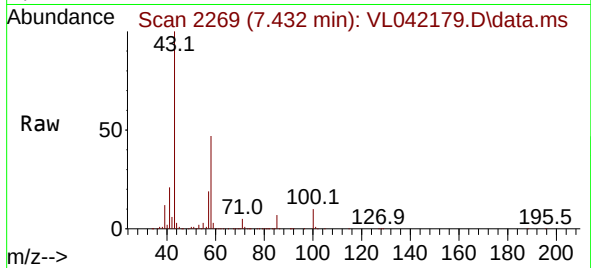




#51  
2-Hexanone  
Concen: 8.741 ppbv  
RT: 7.432 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

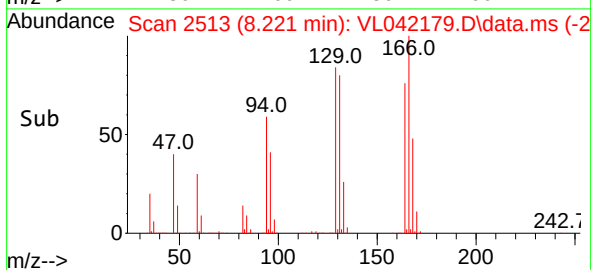
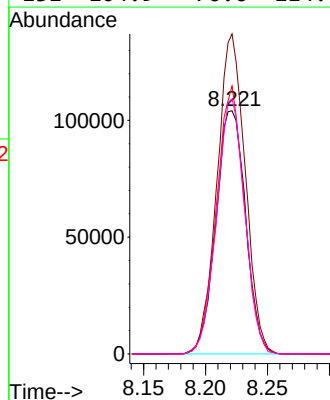
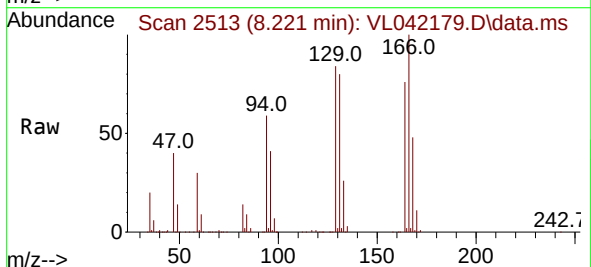
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

Tgt Ion: 43 Resp: 410889  
Ion Ratio Lower Upper  
43 100  
58 48.9 39.7 59.5  
98 0.0 0.1 0.1#

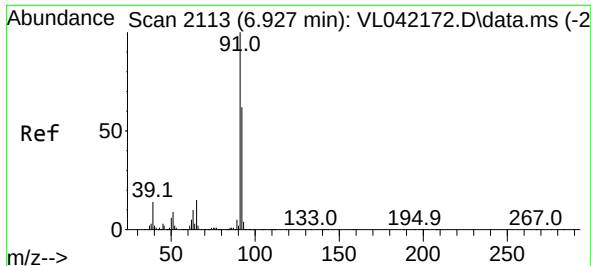


#52  
Tetrachloroethene  
Concen: 8.855 ppbv  
RT: 8.221 min Scan# 2513  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 164 Resp: 173420  
Ion Ratio Lower Upper  
164 100  
166 131.6 102.5 153.7  
129 110.1 79.8 119.8  
131 104.9 76.6 114.8



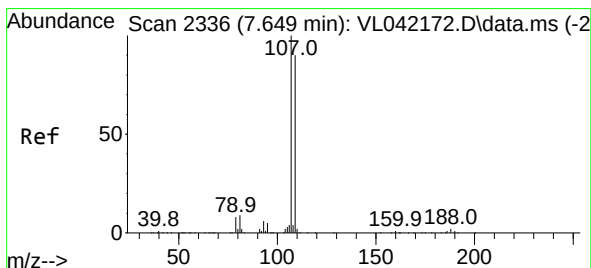
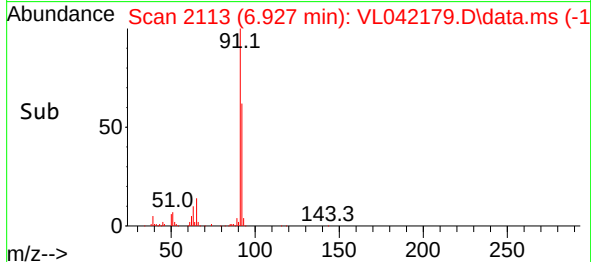
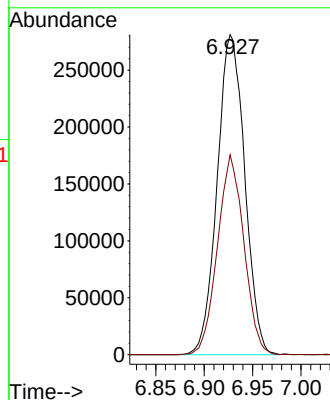
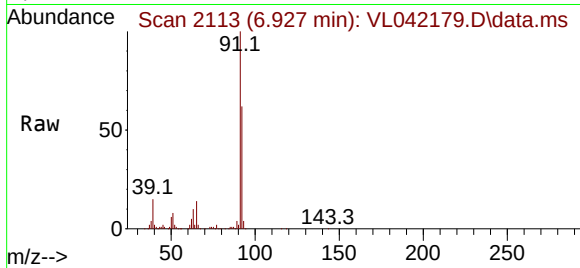




#53  
Toluene  
Concen: 9.514 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

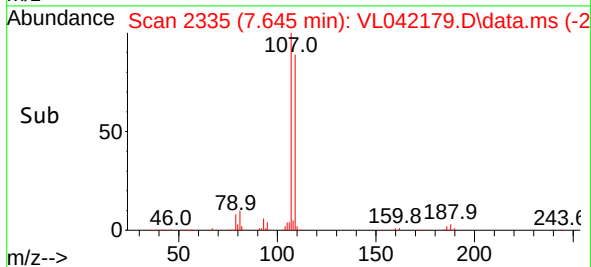
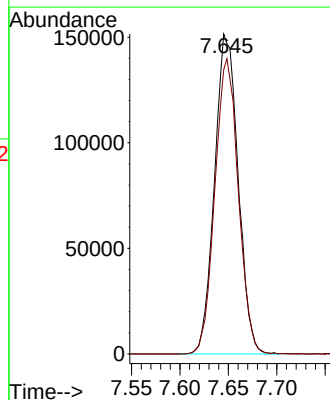
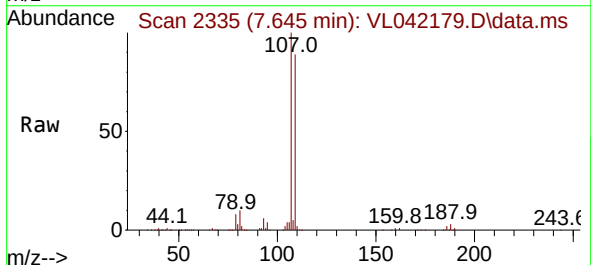
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

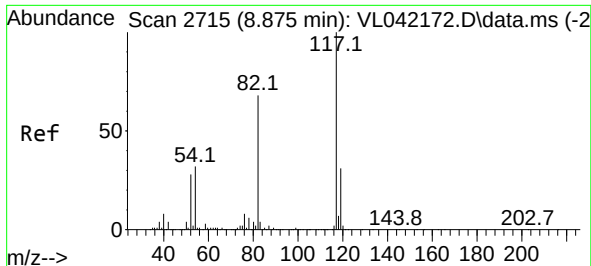
Tgt Ion: 91 Resp: 556897  
Ion Ratio Lower Upper  
91 100  
92 59.8 48.4 72.6



#54  
1,2-Dibromoethane  
Concen: 9.695 ppbv  
RT: 7.645 min Scan# 2335  
Delta R.T. -0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 107 Resp: 256930  
Ion Ratio Lower Upper  
107 100  
109 88.9 72.2 108.4

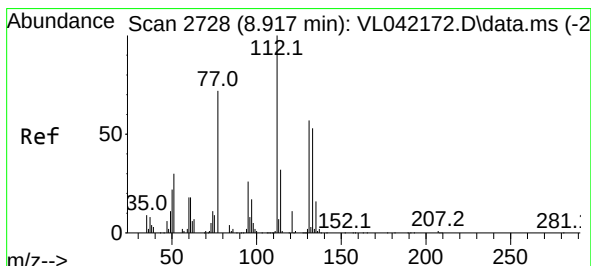
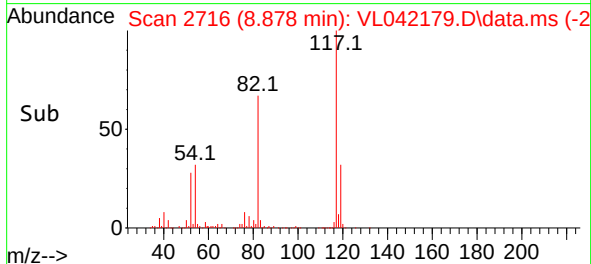
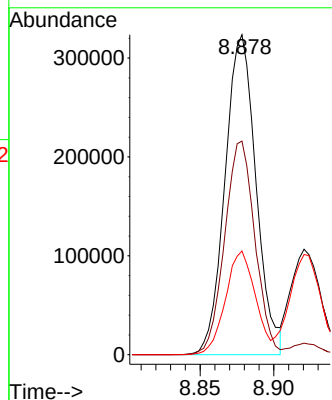
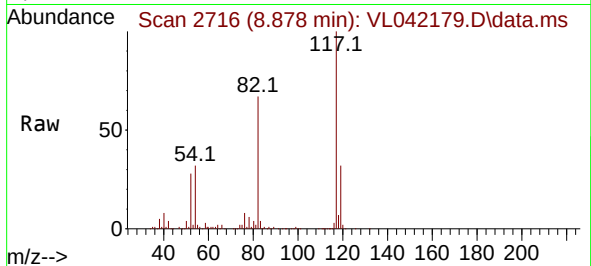




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 2715  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

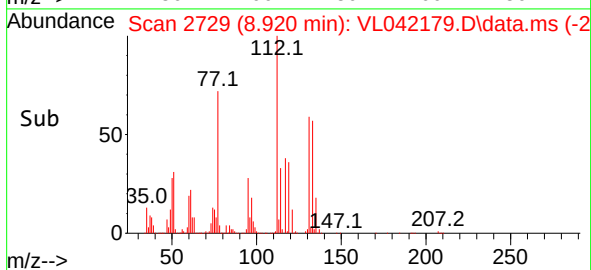
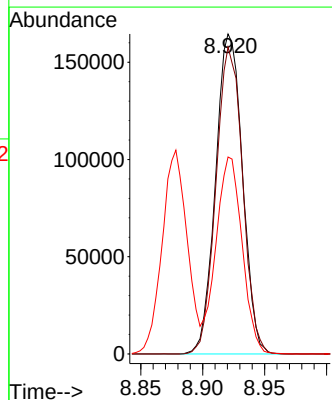
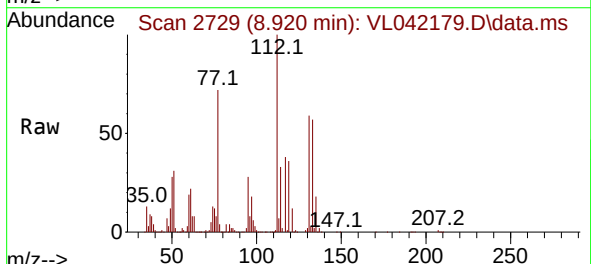
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

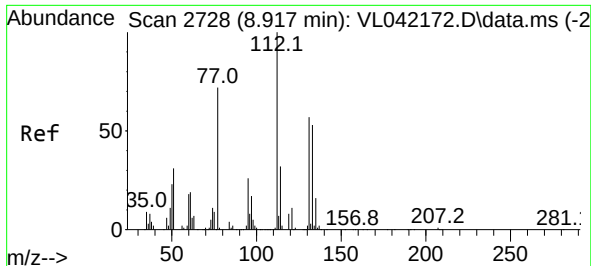
Tgt Ion:117 Resp: 473357  
Ion Ratio Lower Upper  
117 100  
82 68.7 55.8 83.6  
119 31.2 25.5 38.3



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.567 ppbv  
RT: 8.920 min Scan# 2729  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion:131 Resp: 249270  
Ion Ratio Lower Upper  
131 100  
133 95.0 76.6 114.8  
119 61.3 49.8 74.6

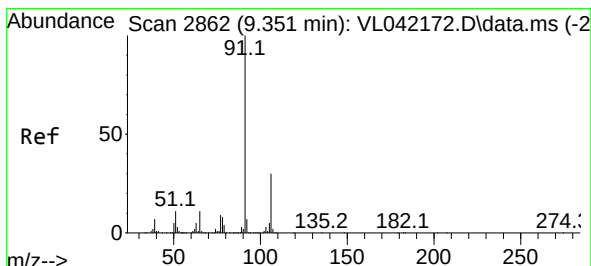
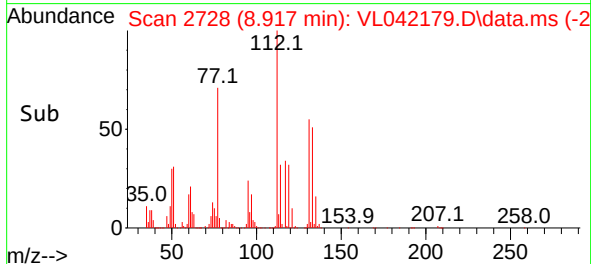
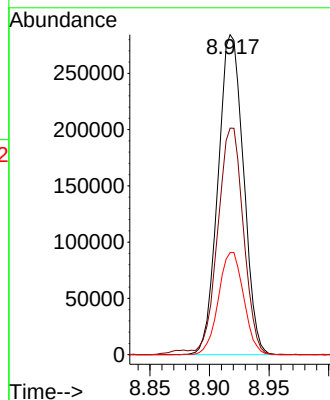
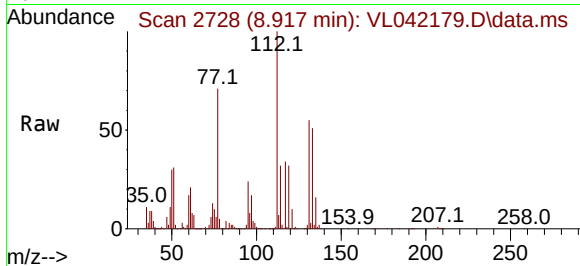




#57  
Chlorobenzene  
Concen: 9.411 ppbv  
RT: 8.917 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

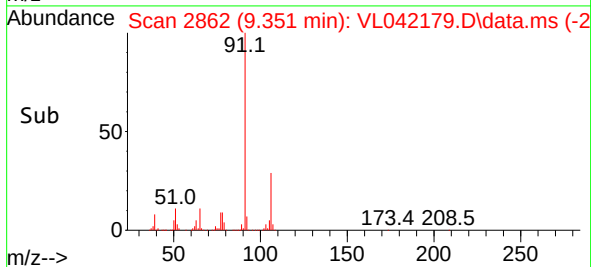
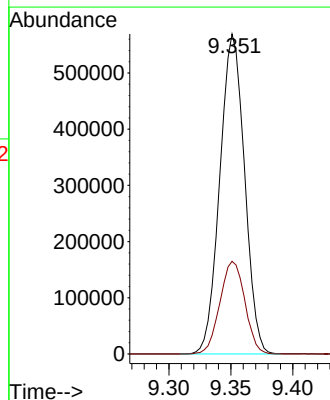
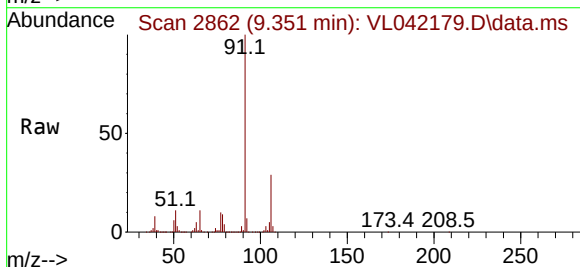
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

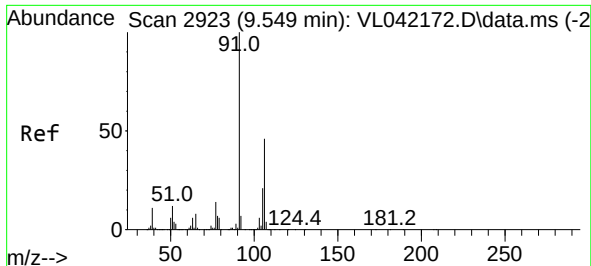
Tgt Ion:112 Resp: 422531  
Ion Ratio Lower Upper  
112 100  
77 70.6 58.2 87.2  
114 31.9 29.1 35.5



#58  
Ethyl Benzene  
Concen: 9.412 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 791360  
Ion Ratio Lower Upper  
91 100  
106 28.9 24.2 36.2





#59

m/p-Xylene

Concen: 8.695 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA\_L

ClientSampleId :

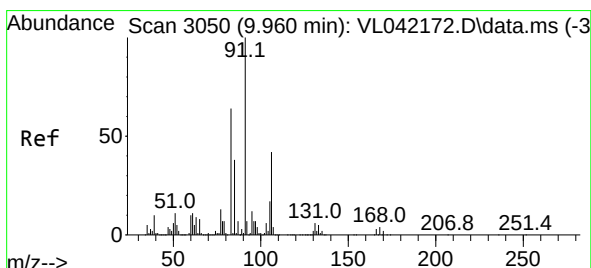
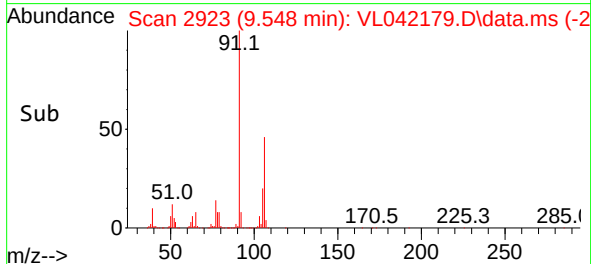
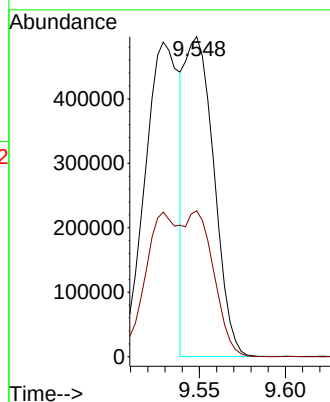
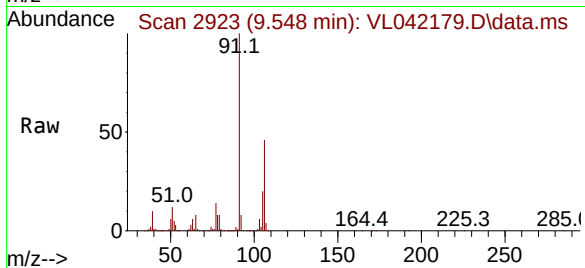
ICVVL032725

Tgt Ion: 91 Resp: 583773

Ion Ratio Lower Upper

91 100

106 97.9 36.4 54.6#



#60

o-Xylene

Concen: 9.404 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042179.D

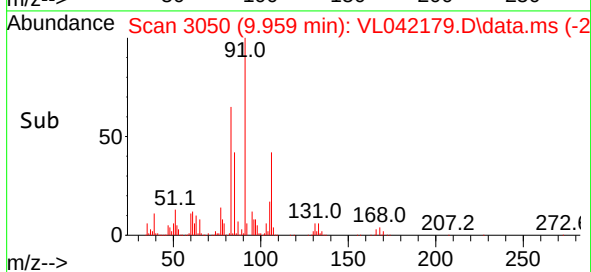
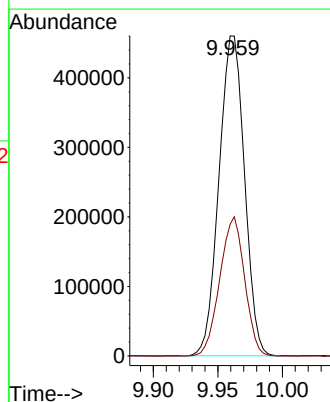
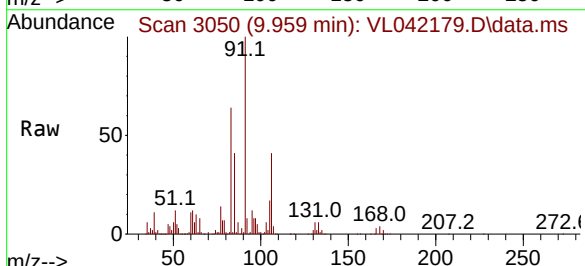
Acq: 27 Mar 2025 12:23

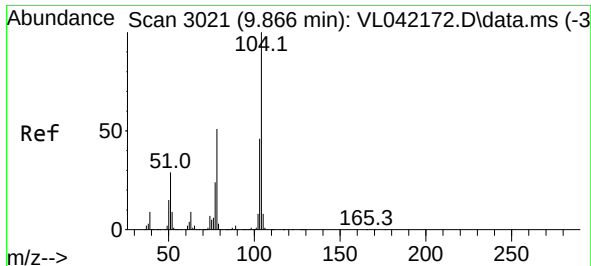
Tgt Ion: 91 Resp: 632918

Ion Ratio Lower Upper

91 100

106 42.2 20.8 62.5

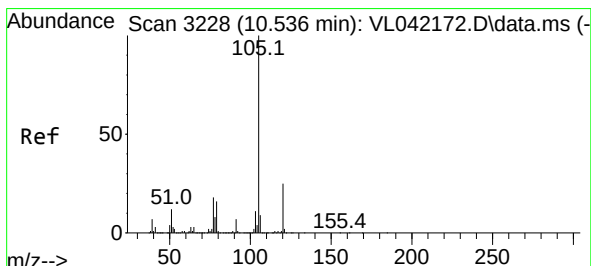
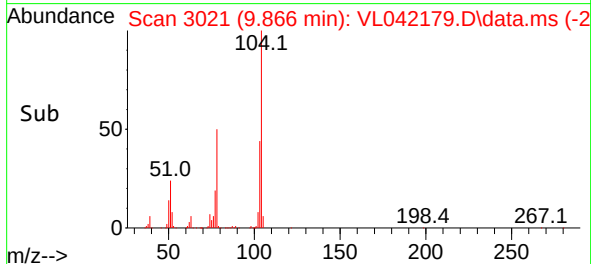
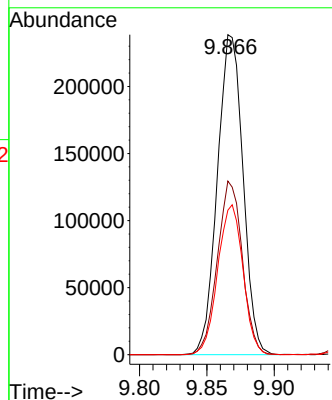
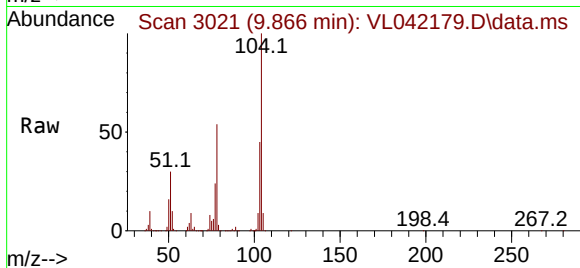




#61  
Styrene  
Concen: 9.488 ppbv  
RT: 9.866 min Scan# 3021  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

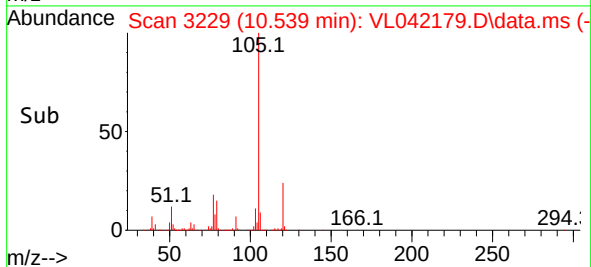
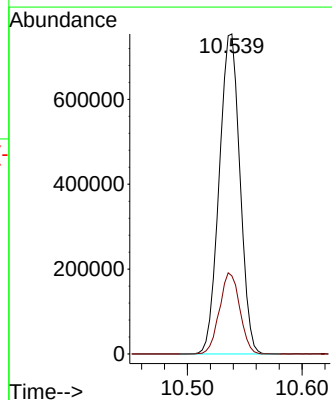
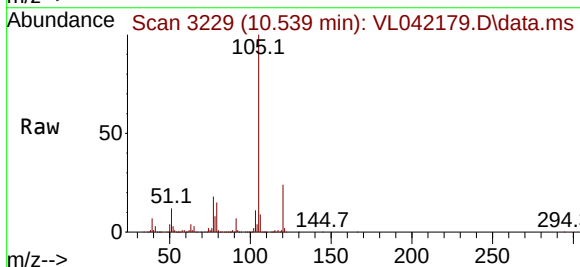
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

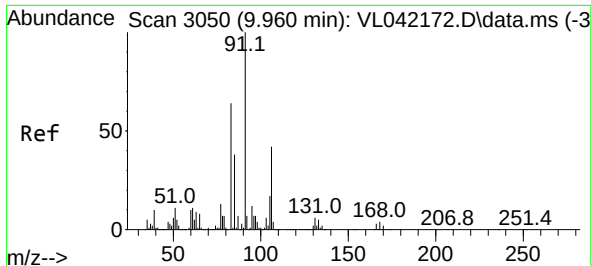
Tgt Ion:104 Resp: 315910  
Ion Ratio Lower Upper  
104 100  
78 52.8 41.8 62.6  
103 46.3 37.0 55.4



#62  
Isopropylbenzene  
Concen: 9.388 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 944938  
Ion Ratio Lower Upper  
105 100  
120 24.9 19.9 29.9

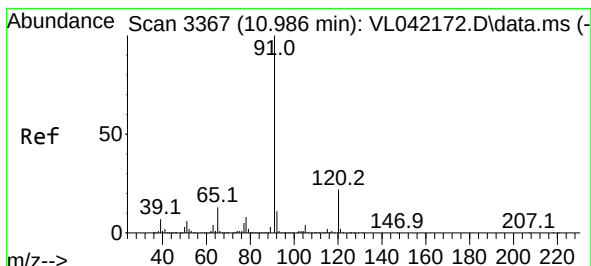
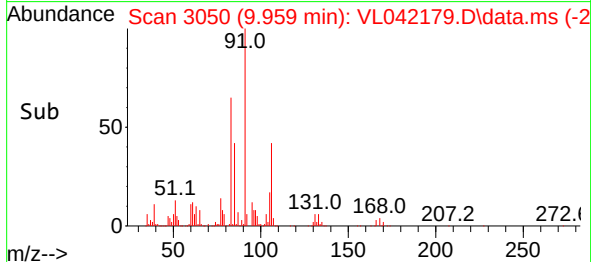
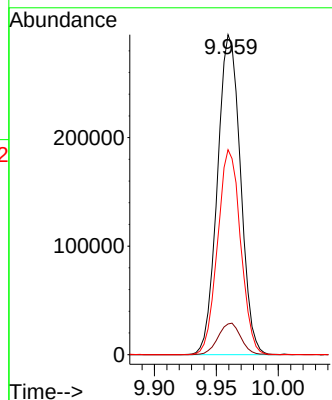
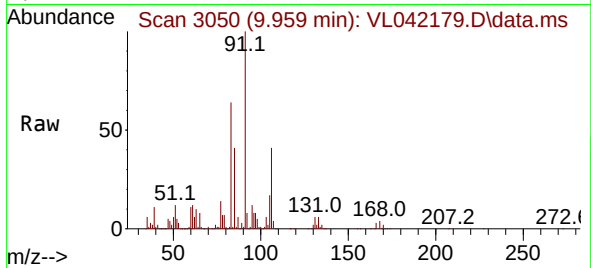




#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.357 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

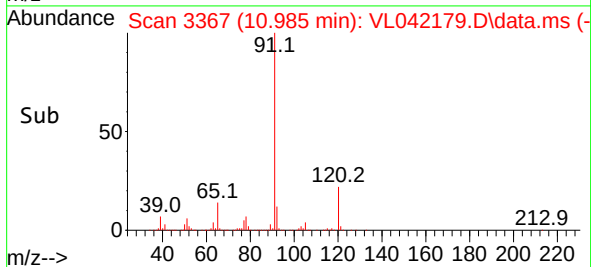
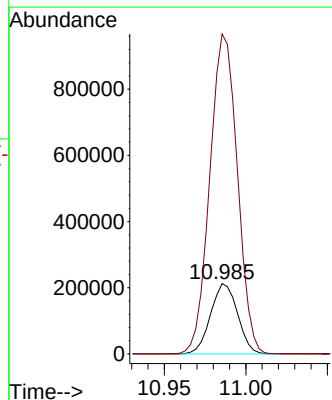
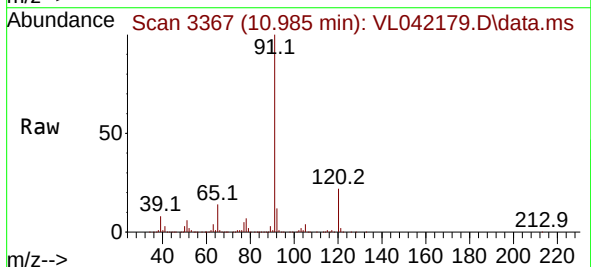
Instrument : MSVOA\_1  
ClientSampleId : ICVVL032725

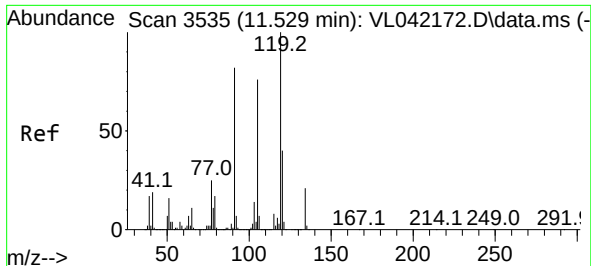
Tgt Ion: 83 Resp: 382635  
Ion Ratio Lower Upper  
83 100  
131 9.7 4.8 14.4  
85 63.9 32.5 97.5



#64  
n-propylbenzene  
Concen: 9.439 ppbv  
RT: 10.985 min Scan# 3367  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 120 Resp: 244547  
Ion Ratio Lower Upper  
120 100  
91 465.9 376.9 565.3

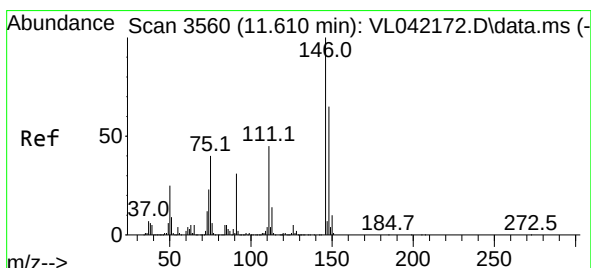
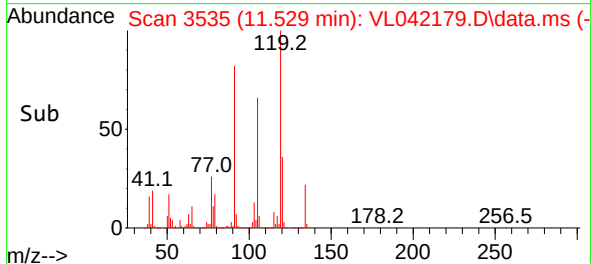
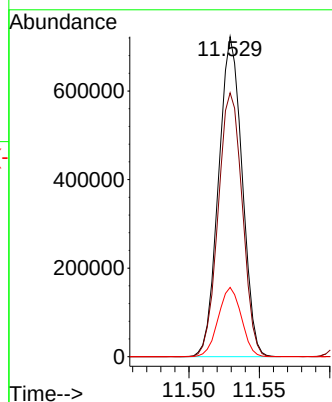
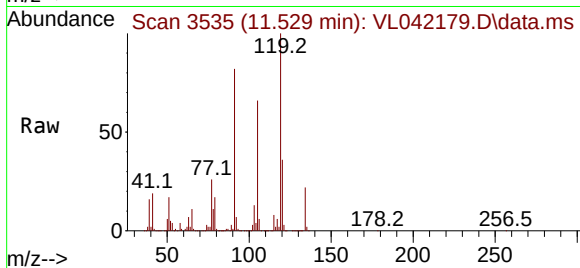




#65  
tert-Butylbenzene  
Concen: 9.065 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

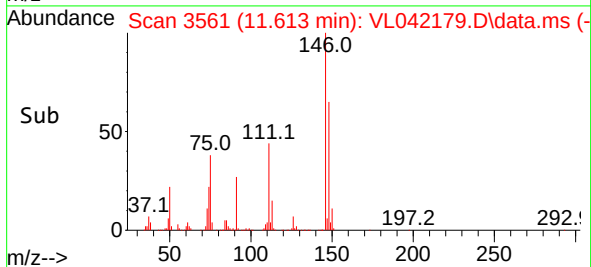
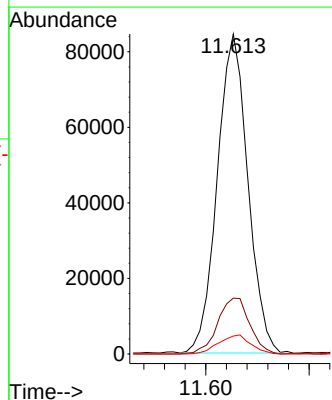
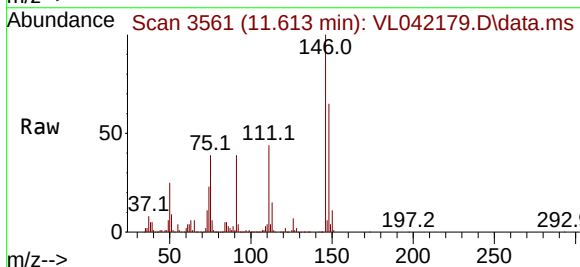
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

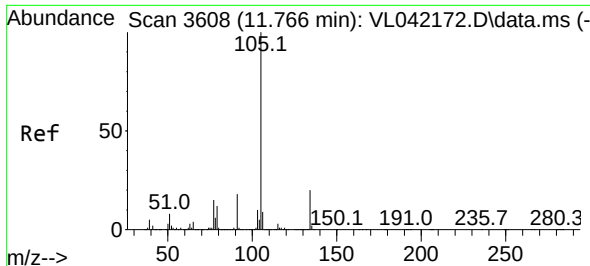
Tgt Ion:119 Resp: 843828  
Ion Ratio Lower Upper  
119 100  
91 84.3 66.0 99.0  
134 21.2 16.7 25.1



#66  
Benzyl Chloride  
Concen: 8.789 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 86804  
Ion Ratio Lower Upper  
91 100  
126 18.5 13.8 20.6  
128 6.2 4.5 6.7

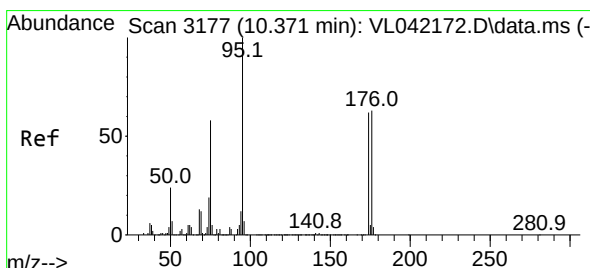
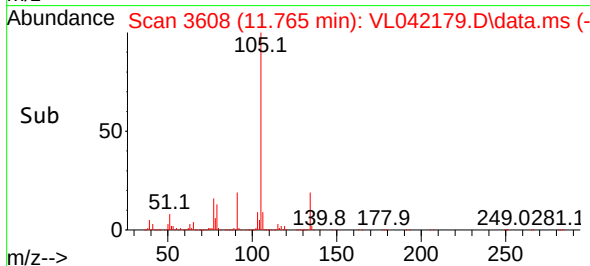
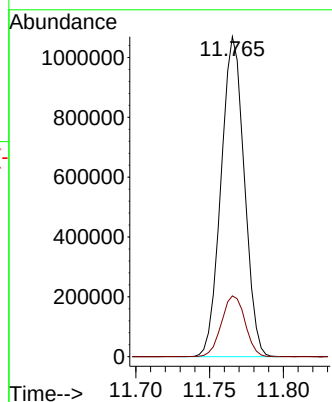
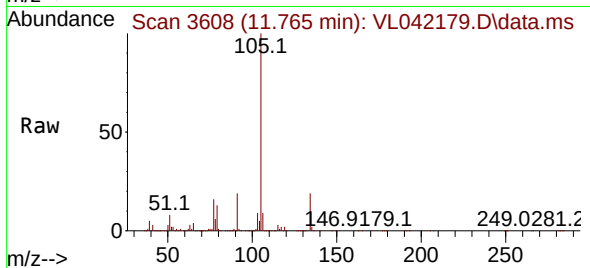




#67  
 sec-Butylbenzene  
 Concen: 9.063 ppbv  
 RT: 11.765 min Scan# 3178  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

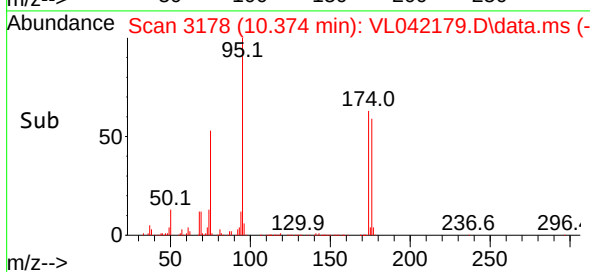
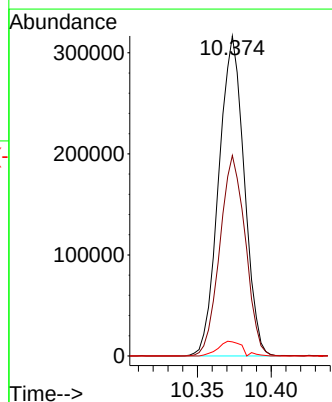
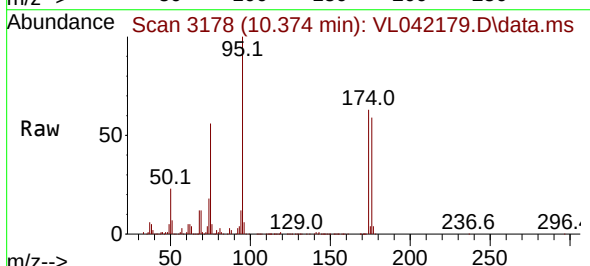
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL032725

Tgt Ion:105 Resp: 1172636  
 Ion Ratio Lower Upper  
 105 100  
 134 19.4 15.5 23.3

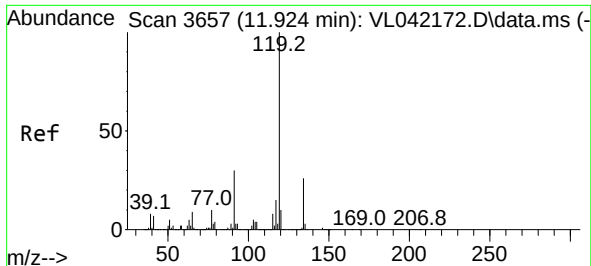


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.774 ppbv  
 RT: 10.374 min Scan# 3178  
 Delta R.T. 0.003 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Tgt Ion: 95 Resp: 379929  
 Ion Ratio Lower Upper  
 95 100  
 174 63.0 50.6 76.0  
 175 4.4 3.8 5.6



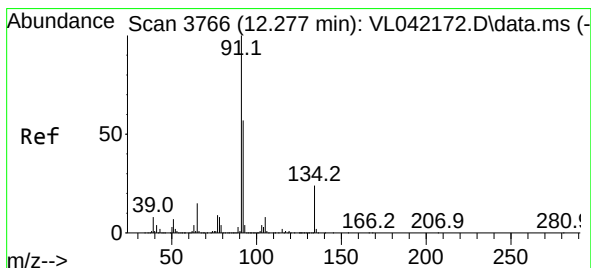
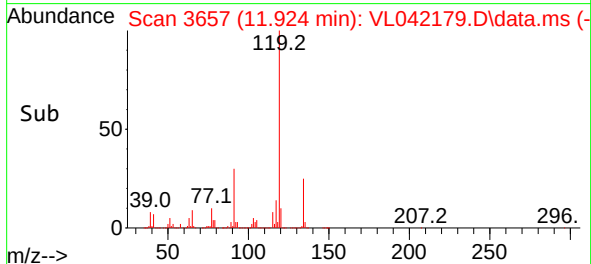
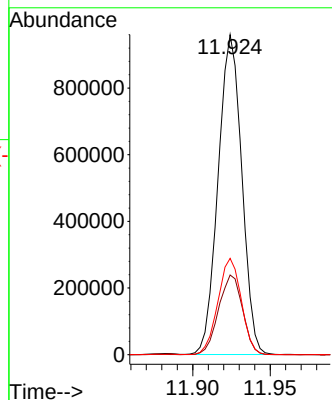
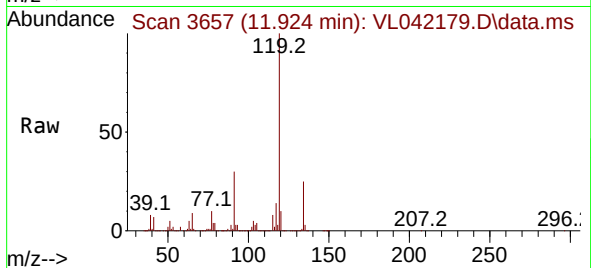




#69  
p-Isopropyltoluene  
Concen: 9.153 ppbv  
RT: 11.924 min Scan# 3657  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

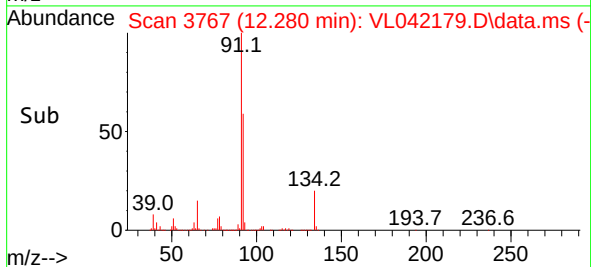
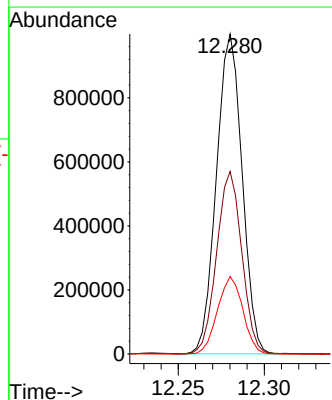
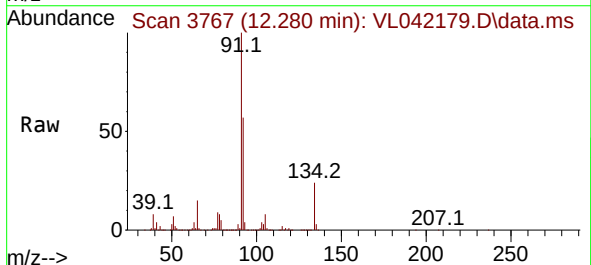
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL032725

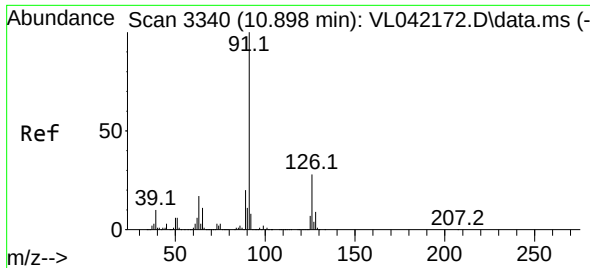
Tgt Ion:119 Resp: 1019694  
Ion Ratio Lower Upper  
119 100  
134 25.3 20.4 30.6  
91 29.9 23.7 35.5



#70  
n-Butylbenzene  
Concen: 9.115 ppbv  
RT: 12.280 min Scan# 3767  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 91 Resp: 1038548  
Ion Ratio Lower Upper  
91 100  
92 56.0 44.9 67.3  
134 23.8 19.2 28.8

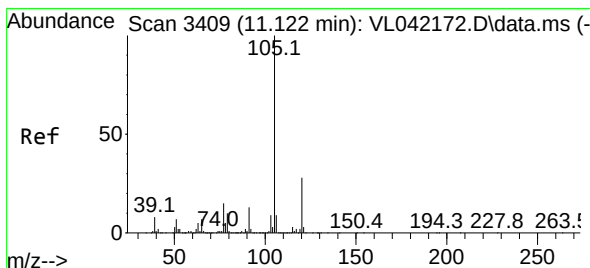
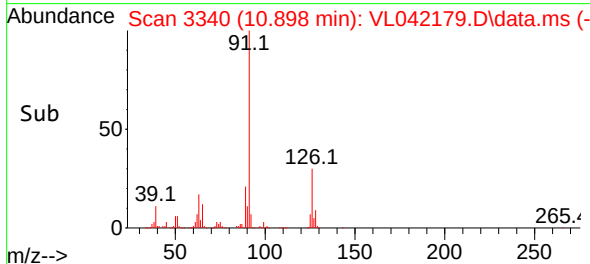
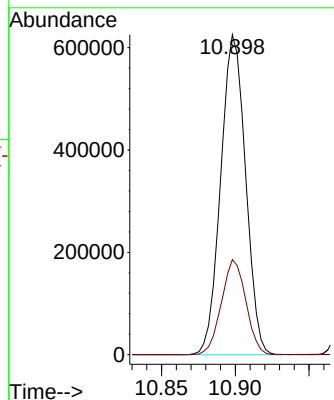
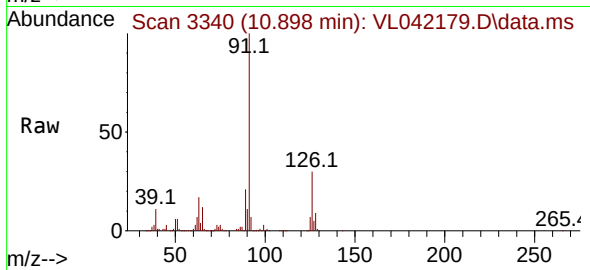




#71  
2-Chlorotoluene  
Concen: 9.382 ppbv  
RT: 10.898 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

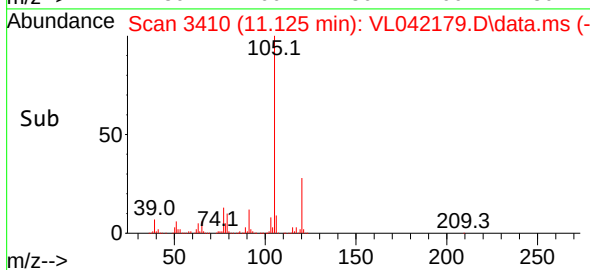
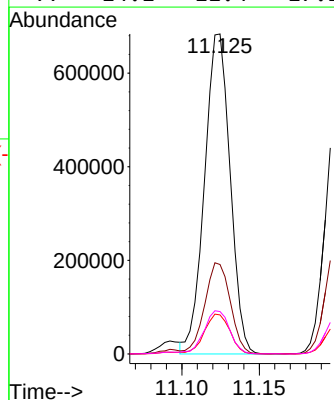
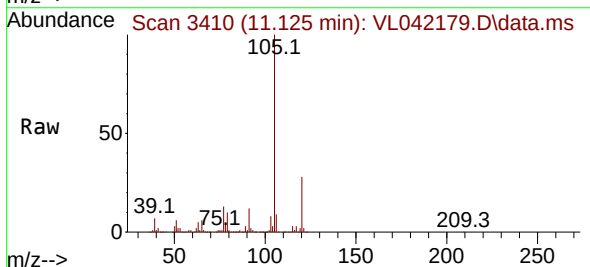
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

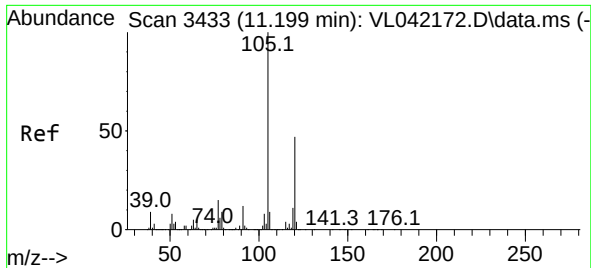
Tgt Ion: 91 Resp: 732874  
Ion Ratio Lower Upper  
91 100  
126 29.2 11.6 46.4



#72  
4-Ethyltoluene  
Concen: 9.370 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion: 105 Resp: 785185  
Ion Ratio Lower Upper  
105 100  
120 29.6 23.4 35.0  
91 12.9 10.3 15.5  
77 14.1 11.4 17.2

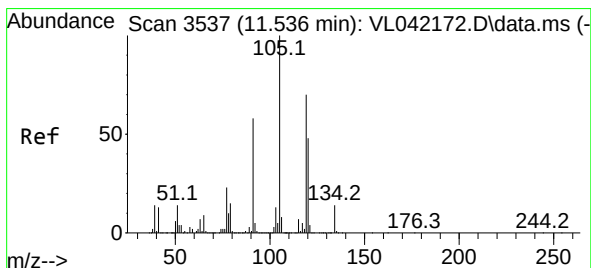
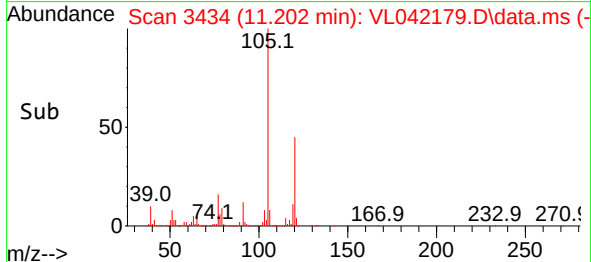
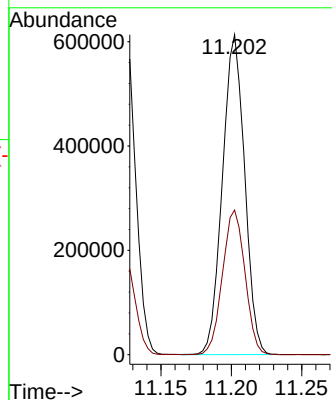
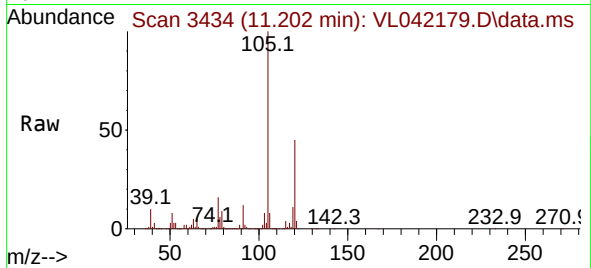




#73  
 1,3,5-Trimethylbenzene  
 Concen: 9.203 ppbv  
 RT: 11.202 min Scan# 3434  
 Delta R.T. 0.003 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

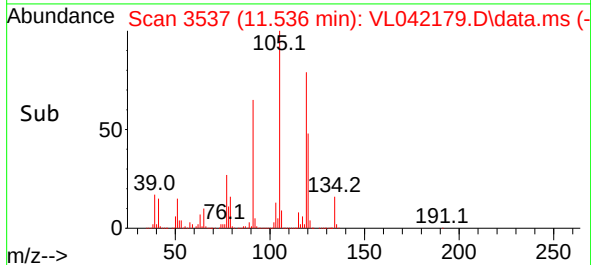
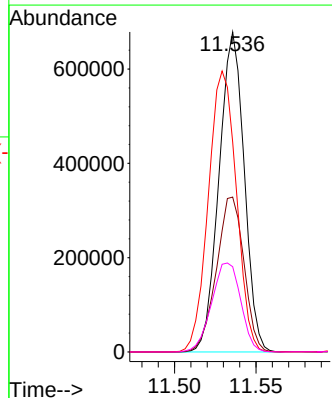
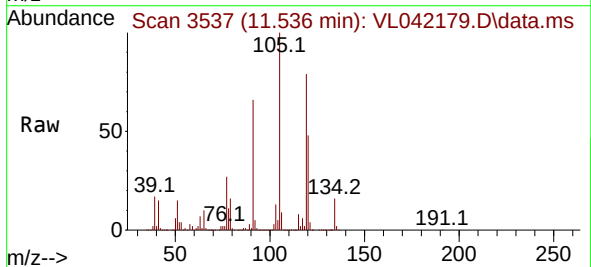
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL032725

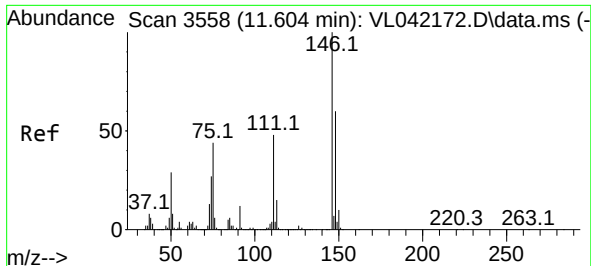
Tgt Ion:105 Resp: 673541  
 Ion Ratio Lower Upper  
 105 100  
 120 45.2 37.4 56.0



#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.648 ppbv  
 RT: 11.536 min Scan# 3537  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 729155  
 Ion Ratio Lower Upper  
 105 100  
 120 48.4 38.6 58.0  
 91 65.6 46.2 69.2  
 77 26.6 18.6 27.8

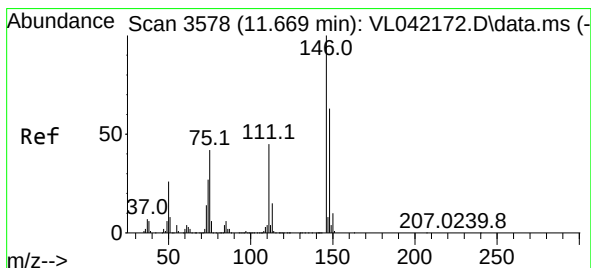
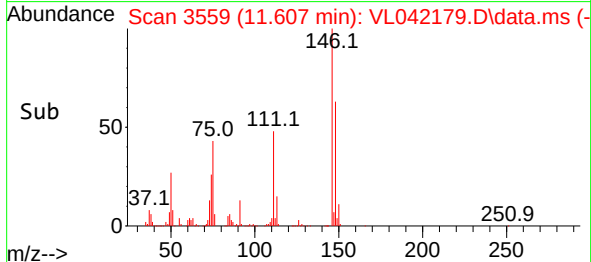
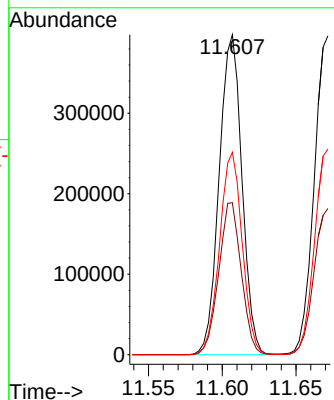
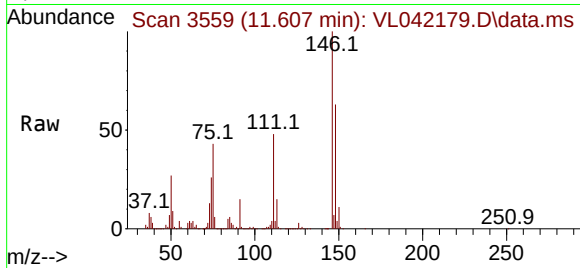




#75  
1,3-Dichlorobenzene  
Concen: 9.224 ppbv  
RT: 11.607 min Scan# 3558  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

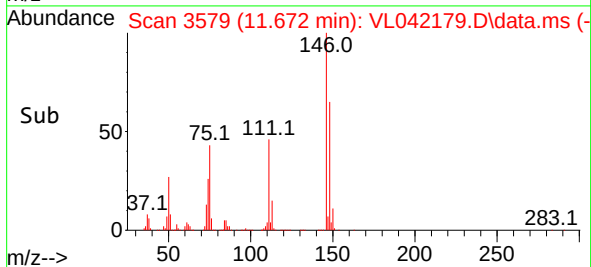
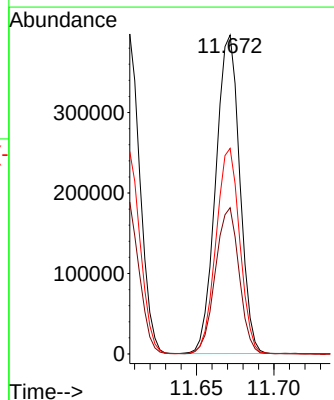
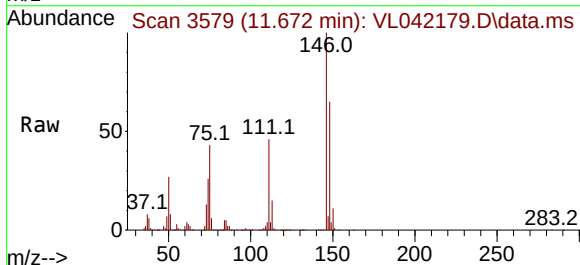
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL032725

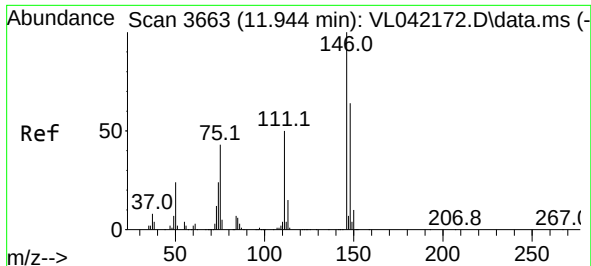
Tgt Ion:146 Resp: 426573  
Ion Ratio Lower Upper  
146 100  
111 47.2 23.8 71.2  
148 62.9 31.9 95.9



#76  
1,4-Dichlorobenzene  
Concen: 9.263 ppbv  
RT: 11.672 min Scan# 3579  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion:146 Resp: 426318  
Ion Ratio Lower Upper  
146 100  
111 45.6 23.0 69.0  
148 64.1 31.9 95.7

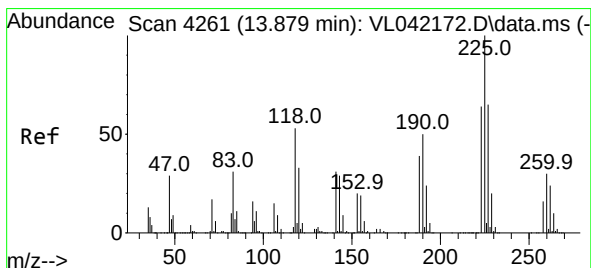
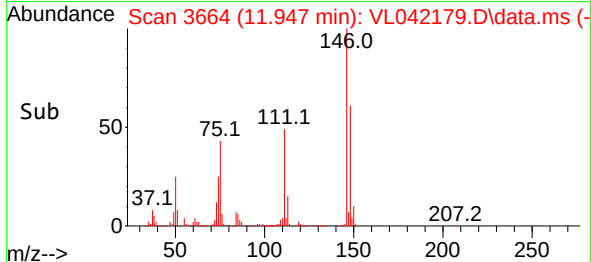
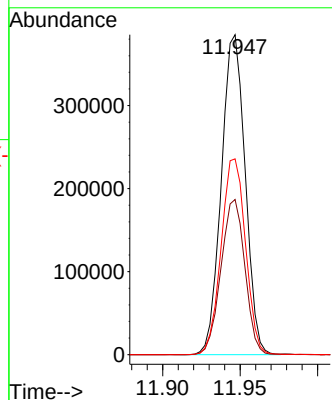
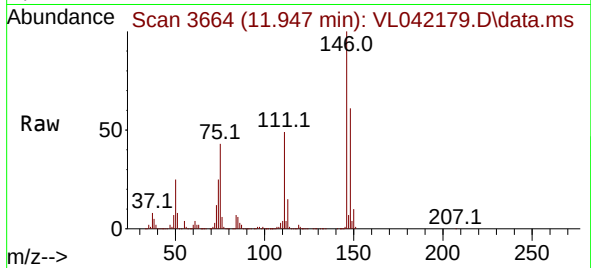




#77  
1,2-Dichlorobenzene  
Concen: 9.154 ppbv  
RT: 11.947 min Scan# 3663  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

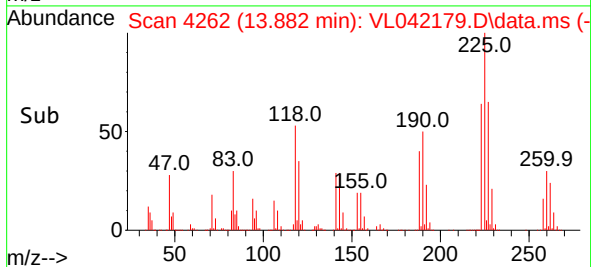
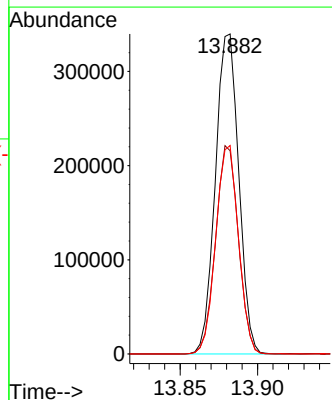
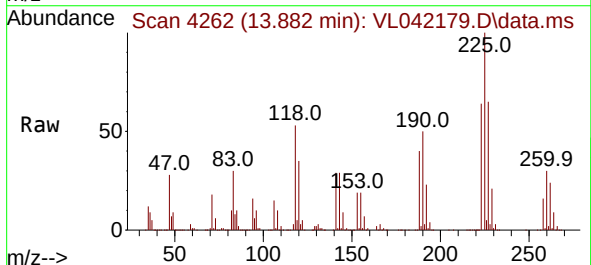
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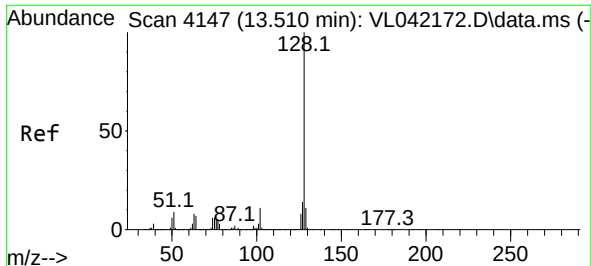
Tgt Ion:146 Resp: 412180  
Ion Ratio Lower Upper  
146 100  
111 48.8 24.8 74.3  
148 62.8 31.6 94.8



#78  
Hexachloro-1,3-Butadiene  
Concen: 7.776 ppbv  
RT: 13.882 min Scan# 4262  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion:225 Resp: 356386  
Ion Ratio Lower Upper  
225 100  
223 63.4 50.6 76.0  
227 63.4 51.2 76.8

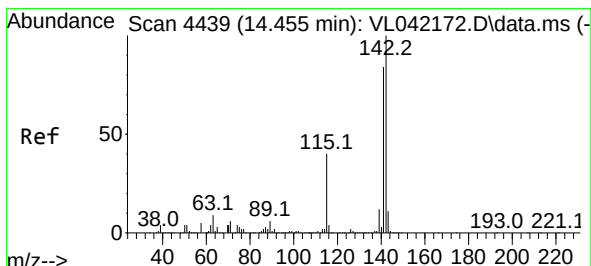
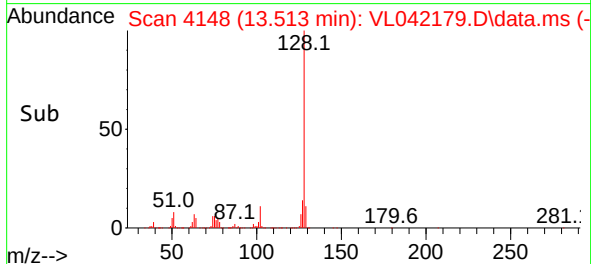
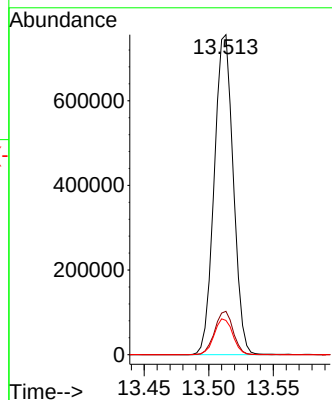
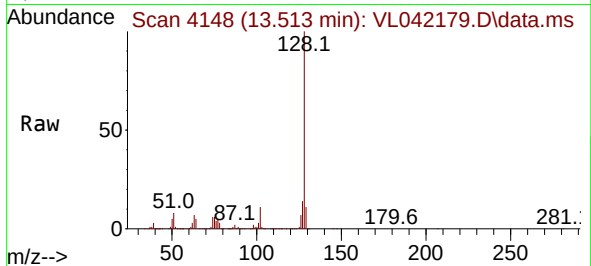




#79  
Naphthalene  
Concen: 8.385 ppbv  
RT: 13.513 min Scan# 4147  
Delta R.T. 0.003 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

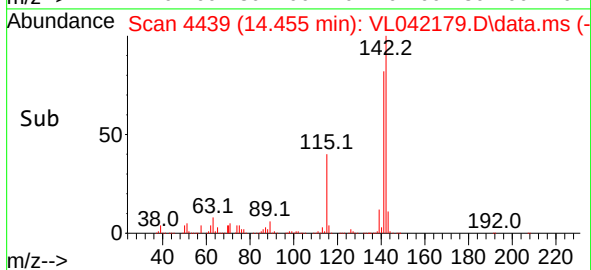
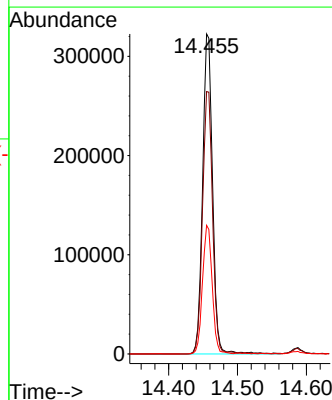
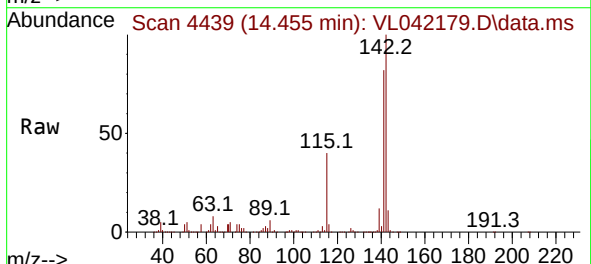
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MSVOA\_L  
ClientSampleId :  
ICVVL032725

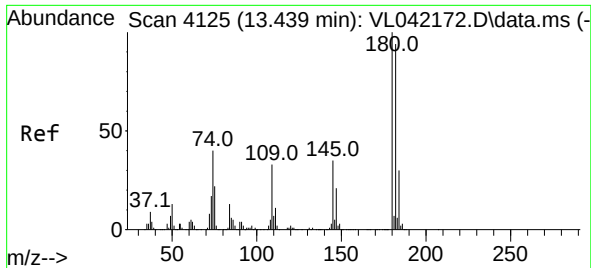
Tgt Ion:128 Resp: 773311  
Ion Ratio Lower Upper  
128 100  
127 13.6 10.8 16.2  
129 10.7 9.0 13.4



#80  
Naphthalene,2-methyl-  
Concen: 7.151 ppbv  
RT: 14.455 min Scan# 4439  
Delta R.T. -0.000 min  
Lab File: VL042179.D  
Acq: 27 Mar 2025 12:23

Tgt Ion:142 Resp: 323443  
Ion Ratio Lower Upper  
142 100  
141 83.5 66.3 99.5  
115 39.8 31.6 47.4

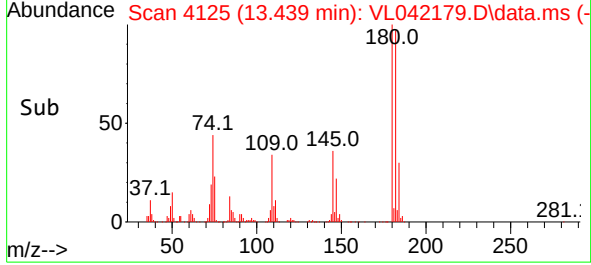
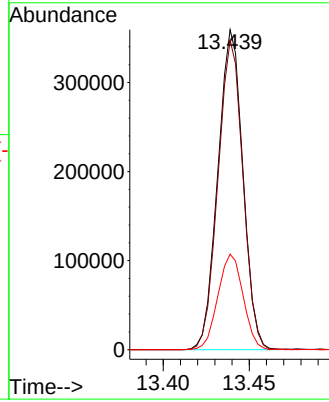
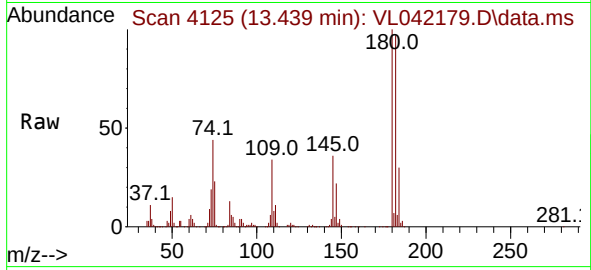




#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.553 ppbv  
 RT: 13.439 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL042179.D  
 Acq: 27 Mar 2025 12:23

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL032725

Tgt Ion:180 Resp: 363863  
 Ion Ratio Lower Upper  
 180 100  
 182 96.2 75.1 112.7  
 184 30.1 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042181.D  
 Acq On : 27 Mar 2025 14:39  
 Operator : SY/MD  
 Sample : VL0327ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0327ABS01

Quant Time: Mar 28 02:12:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 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   | 2.787 | 49   | 166105   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.955 | 114  | 483209   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 452250   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 368941 9.934 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.300%

#### Target Compounds

|                               |       |     |        |              | Qvalue |
|-------------------------------|-------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 243063 | 9.911 ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 241481 | 9.638 ppbv   | 99     |
| 4) Chloromethane              | 1.531 | 50  | 96241  | 9.602 ppbv   | 99     |
| 5) Vinyl Chloride             | 1.580 | 62  | 91865  | 8.649 ppbv   | 94     |
| 6) Bromomethane               | 1.667 | 94  | 40361  | 8.886 ppbv   | 92     |
| 7) Chloroethane               | 1.703 | 64  | 37307  | 9.273 ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 208981 | 10.006 ppbv  | 94     |
| 9) Propene                    | 1.482 | 41  | 102862 | 8.957 ppbv   | 99     |
| 10) Heptane                   | 4.978 | 43  | 290621 | 9.514 ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 232086 | 9.725 ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 178792 | 9.115 ppbv   | 99     |
| 13) Ethanol                   | 1.719 | 45  | 5124   | 4.720 ppbv   | 93     |
| 14) Bromoethene               | 1.780 | 108 | 69775  | 9.286 ppbv   | 98     |
| 15) Acetone                   | 1.835 | 43  | 195717 | 8.425 ppbv   | 96     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 98877  | 8.716 ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 266424 | 9.208 ppbv   | 98     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 83339  | 9.088 ppbv   | 95     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 120986 | 9.230 ppbv   | 97     |
| 20) Methylene Chloride        | 2.062 | 84  | 69930  | 8.083 ppbv   | 96     |
| 21) Allyl Chloride            | 2.094 | 41  | 147810 | 9.022 ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 96616  | 9.116 ppbv   | 99     |
| 23) Vinyl Acetate             | 2.463 | 43  | 94696  | 9.418 ppbv   | 96     |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 189793 | 9.661 ppbv   | 99     |
| 25) Ethyl Acetate             | 2.835 | 43  | 574442 | 9.528 ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 224704 | 9.649 ppbv   | 98     |
| 27) Carbon Disulfide          | 2.149 | 76  | 230410 | 9.226 ppbv # | 94     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 149961 | 10.342 ppbv  | 95     |
| 29) Chloroform                | 2.848 | 83  | 336404 | 9.870 ppbv   | 96     |
| 30) Cyclohexane               | 3.855 | 84  | 194220 | 9.604 ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 231151 | 9.777 ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 359860 | 9.223 ppbv   | 99     |
| 34) 2-Butanone                | 2.557 | 43  | 320843 | 9.157 ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 361037 | 9.565 ppbv   | 99     |
| 36) Benzene                   | 3.658 | 78  | 452718 | 9.450 ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 277247 | 10.109 ppbv  | 98     |
| 38) Trichloroethene           | 4.548 | 130 | 187209 | 9.366 ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 164374 | 9.422 ppbv   | 95     |
| 40) 1,4-Dioxane               | 4.583 | 88  | 82012  | 8.857 ppbv # | 92     |
| 41) Tetrahydrofuran           | 3.052 | 42  | 188907 | 9.362 ppbv   | 99     |
| 42) Bromodichloromethane      | 4.489 | 83  | 377092 | 9.974 ppbv   | 98     |
| 43) Methyl Methacrylate       | 4.881 | 69  | 190156 | 9.377 ppbv   | 100    |
| 44) 2,2,4-Trimethylpentane    | 4.638 | 57  | 769803 | 9.509 ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 204004 | 9.376 ppbv   | 98     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042181.D  
 Acq On : 27 Mar 2025 14:39  
 Operator : SY/MD  
 Sample : VL0327ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

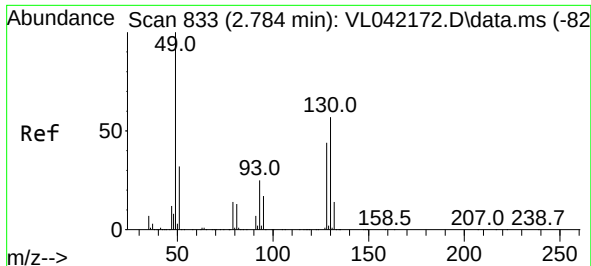
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0327ABS01

Quant Time: Mar 28 02:12:34 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 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) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.599  | 75   | 251694   | 9.437 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 175509   | 9.517 | ppbv   | 99       |
| 48) Dibromochloromethane      | 7.386  | 129  | 310158   | 9.923 | ppbv   | 99       |
| 49) Bromoform                 | 9.483  | 173  | 279382   | 9.957 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 481919   | 8.679 | ppbv   | 98       |
| 51) 2-Hexanone                | 7.435  | 43   | 395520   | 8.674 | ppbv   | 99       |
| 52) Tetrachloroethene         | 8.224  | 164  | 167015   | 8.791 | ppbv   | 95       |
| 53) Toluene                   | 6.930  | 91   | 540612   | 9.520 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 246519   | 9.589 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 240905   | 9.677 | ppbv   | 96       |
| 57) Chlorobenzene             | 8.920  | 112  | 407816   | 9.507 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.354  | 91   | 769818   | 9.583 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.551  | 91   | 574799   | 8.961 | ppbv # | 23       |
| 60) o-Xylene                  | 9.962  | 91   | 612011   | 9.518 | ppbv   | 98       |
| 61) Styrene                   | 9.869  | 104  | 306658   | 9.639 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.539 | 105  | 923163   | 9.600 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.962  | 83   | 370486   | 9.483 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.989 | 120  | 239652   | 9.682 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 828438   | 9.315 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.616 | 91   | 81404    | 8.627 | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 1155378  | 9.347 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 1011573  | 9.503 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 1022935  | 9.397 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 713648   | 9.562 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 766720   | 9.576 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 660905   | 9.451 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 718683   | 8.921 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 415378   | 9.401 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 418670   | 9.521 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 401634   | 9.336 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 346566   | 7.914 | ppbv   | 100      |
| 79) Naphthalene               | 13.513 | 128  | 762976   | 8.659 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 308264   | 7.134 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 356193   | 8.764 | ppbv   | 99       |

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

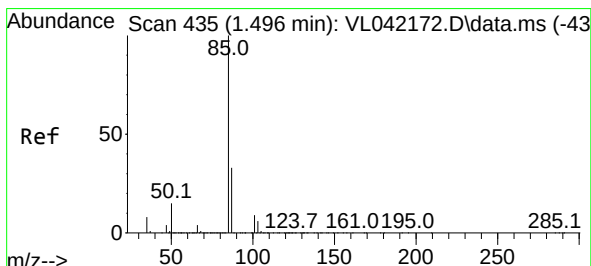
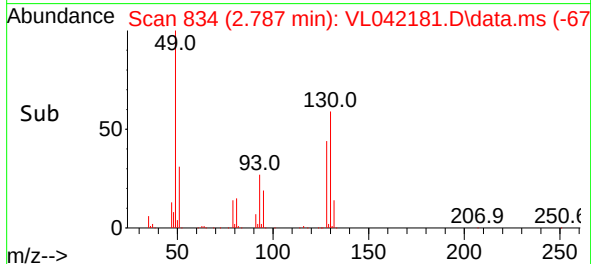
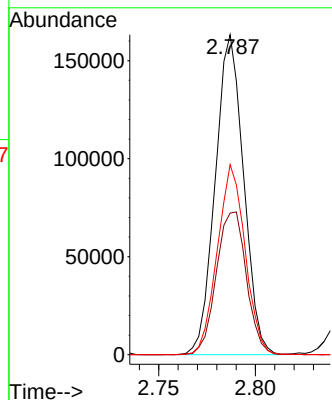
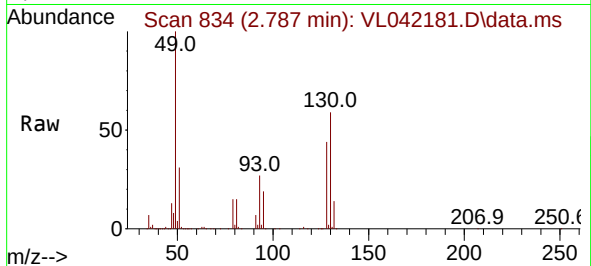




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.787 min Scan# 81  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

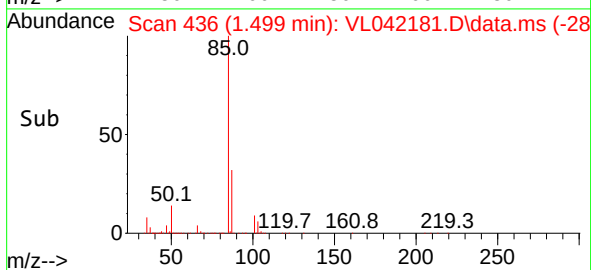
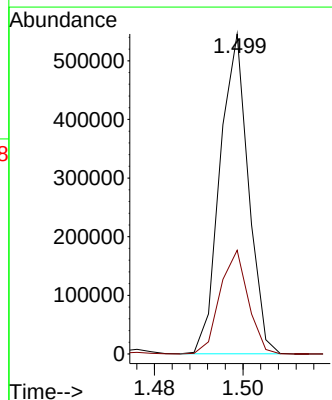
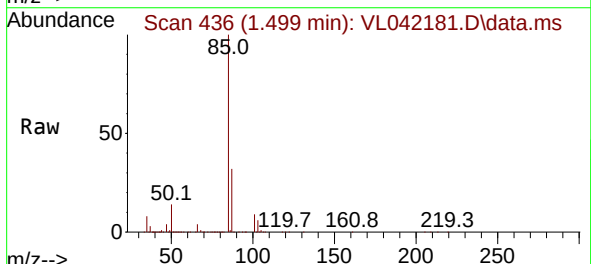
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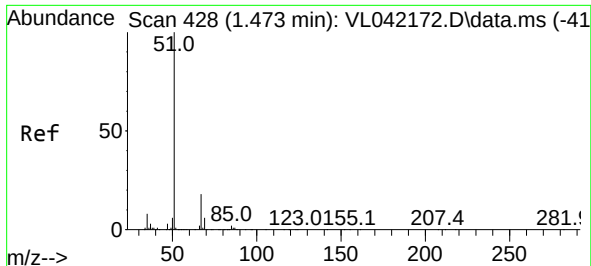
Tgt Ion: 49 Resp: 166105  
 Ion Ratio Lower Upper  
 49 100  
 128 47.4 22.9 68.5  
 130 58.3 28.8 86.4



#2  
 Dichlorodifluoromethane  
 Concen: 9.911 ppbv  
 RT: 1.499 min Scan# 436  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Tgt Ion: 85 Resp: 243063  
 Ion Ratio Lower Upper  
 85 100  
 87 32.4 26.1 39.1

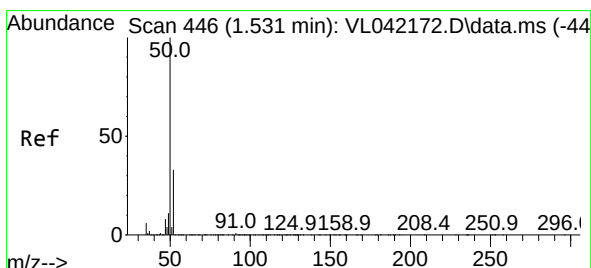
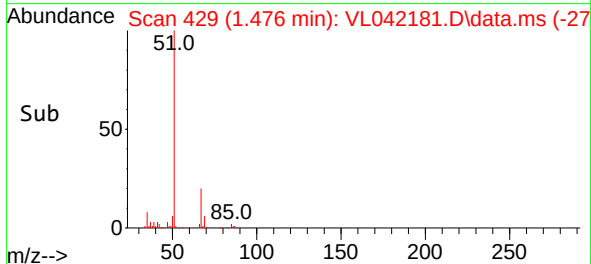
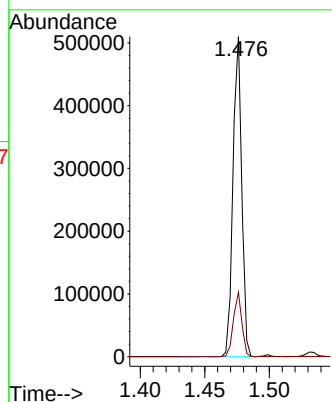
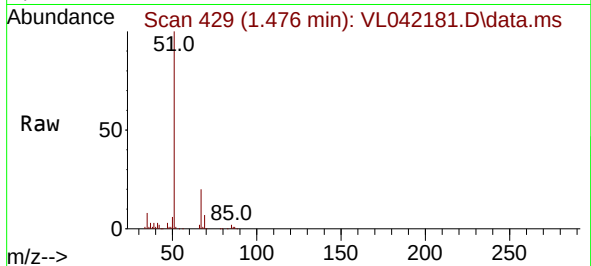




#3  
Chlorodifluoromethane  
Concen: 9.638 ppbv  
RT: 1.476 min Scan# 428  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

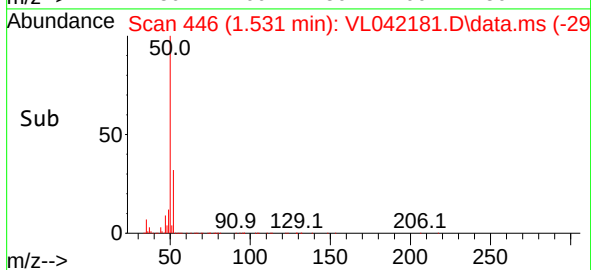
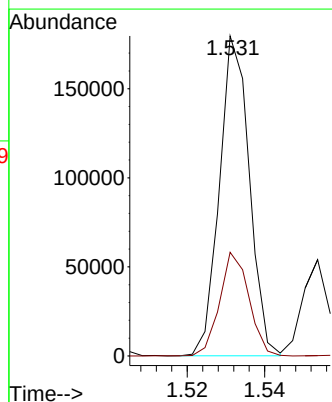
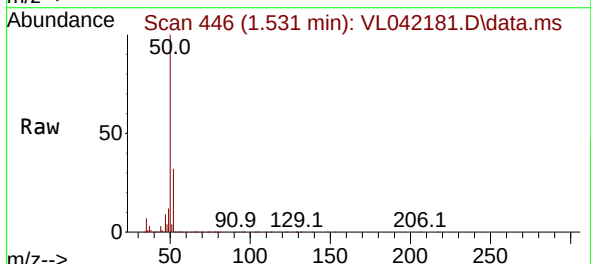
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

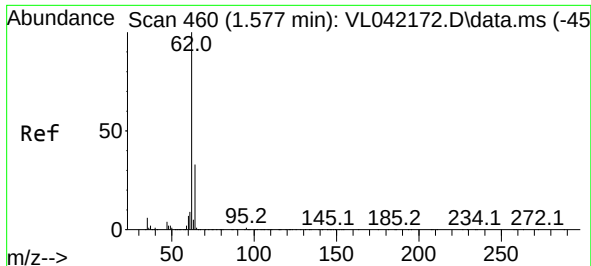
Tgt Ion: 51 Resp: 241481  
Ion Ratio Lower Upper  
51 100  
67 19.4 15.0 22.6



#4  
Chloromethane  
Concen: 9.602 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 50 Resp: 96241  
Ion Ratio Lower Upper  
50 100  
52 32.2 26.1 39.1

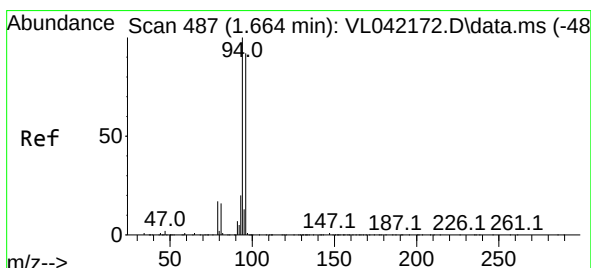
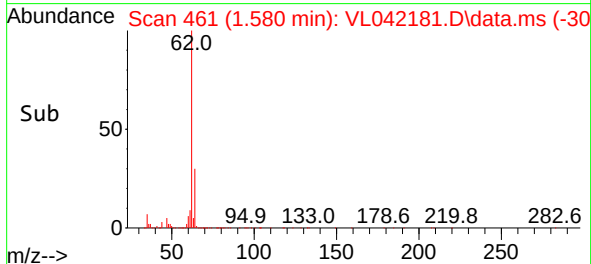
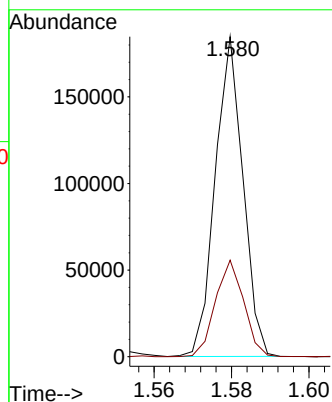
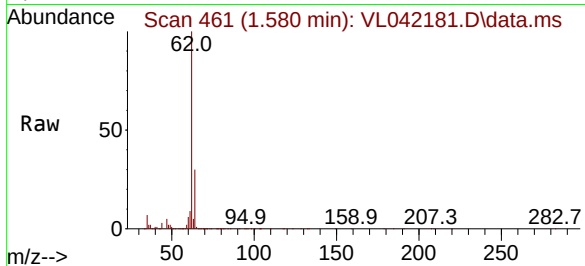




#5  
 Vinyl Chloride  
 Concen: 8.649 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

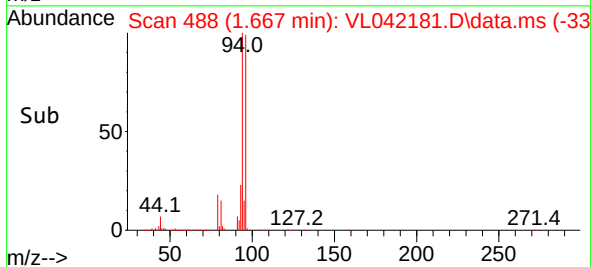
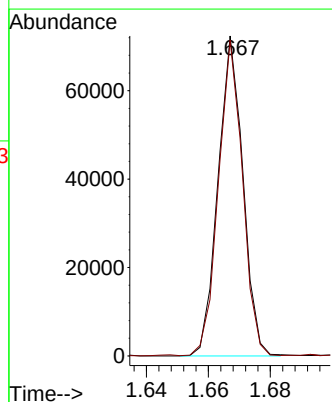
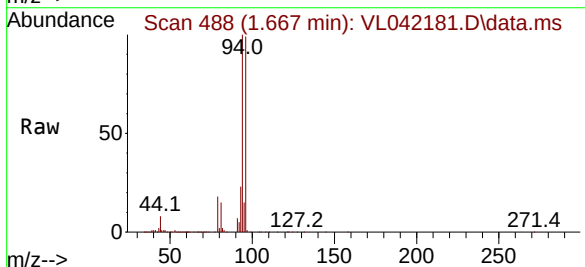
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0327ABS01

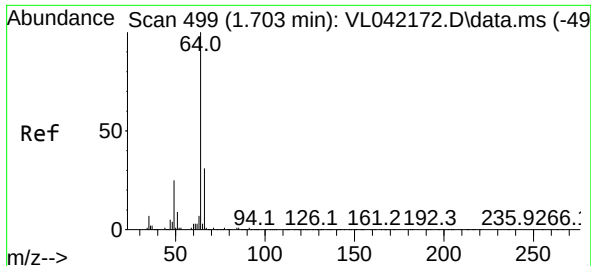
Tgt Ion: 62 Resp: 91865  
 Ion Ratio Lower Upper  
 62 100  
 64 30.2 26.6 40.0



#6  
 Bromomethane  
 Concen: 8.886 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Tgt Ion: 94 Resp: 40361  
 Ion Ratio Lower Upper  
 94 100  
 96 98.7 73.1 109.7

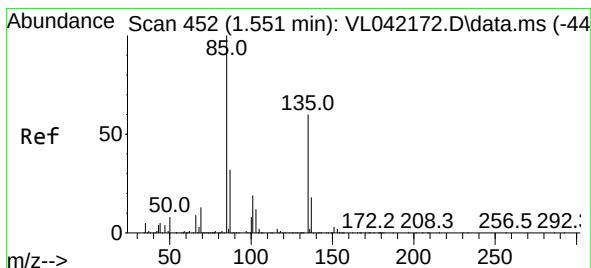
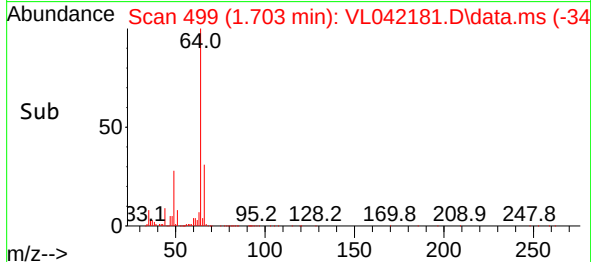
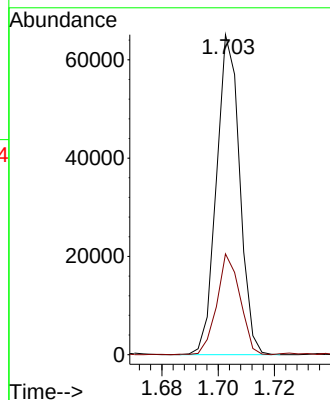
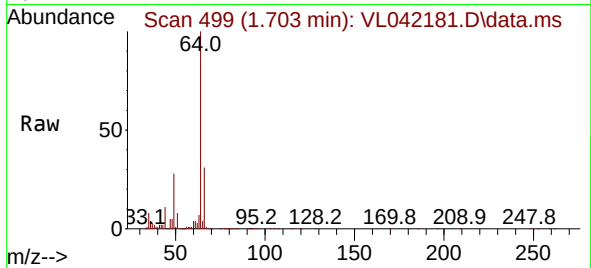




#7  
Chloroethane  
Concen: 9.273 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

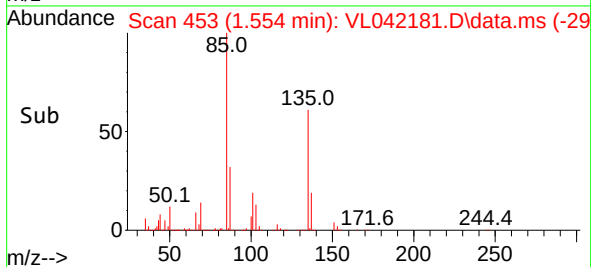
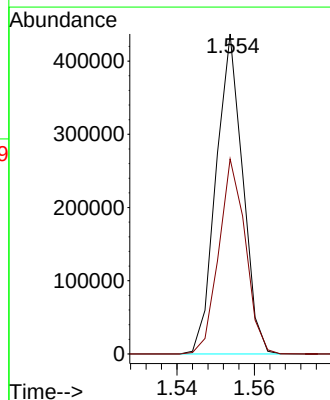
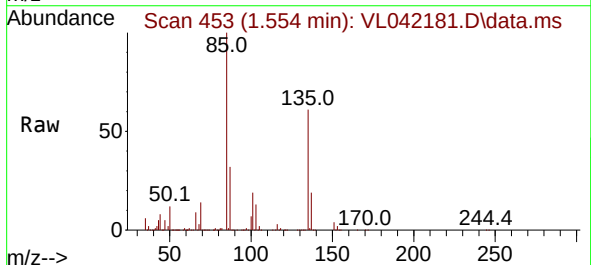
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

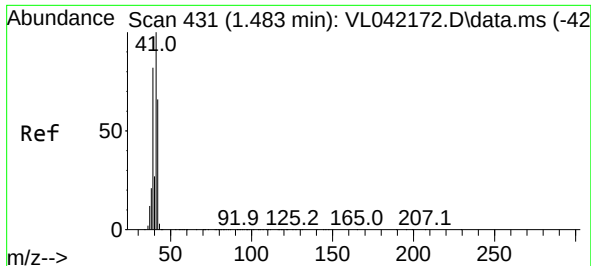
Tgt Ion: 64 Resp: 37307  
Ion Ratio Lower Upper  
64 100  
66 31.5 25.2 37.8



#8  
Dichlorotetrafluoroethane  
Concen: 10.006 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 85 Resp: 208981  
Ion Ratio Lower Upper  
85 100  
135 61.1 52.4 78.6

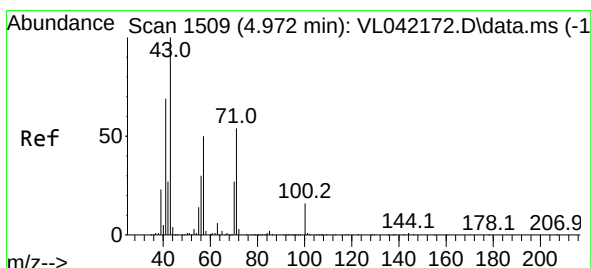
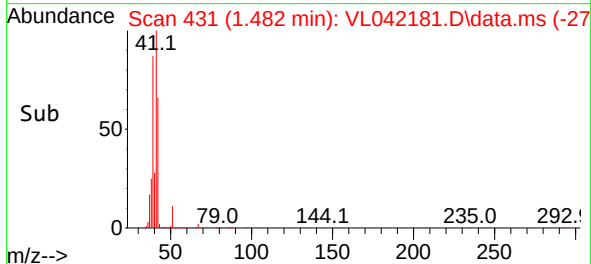
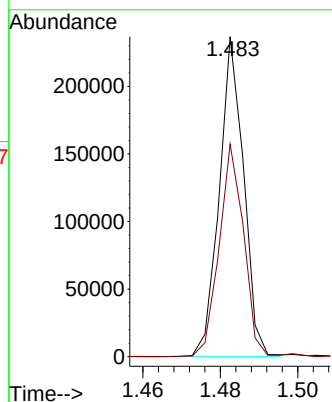
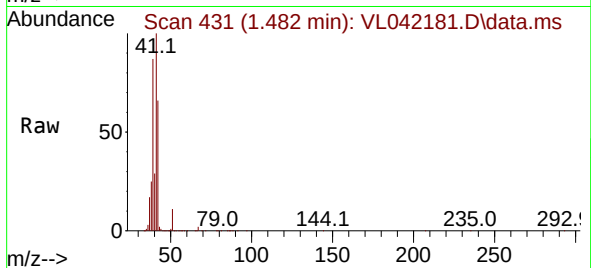




#9  
Propene  
Concen: 8.957 ppbv  
RT: 1.482 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

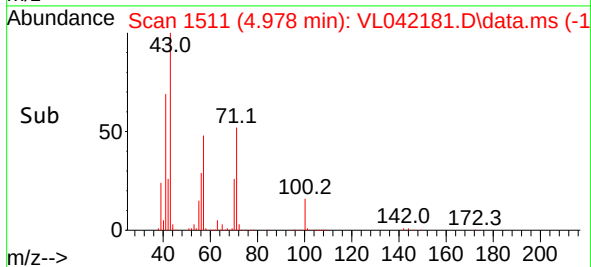
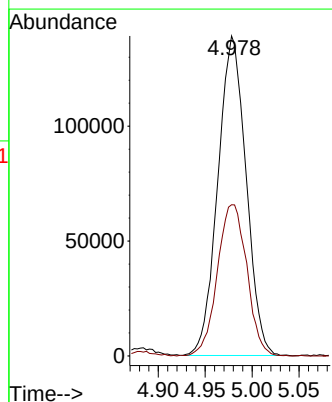
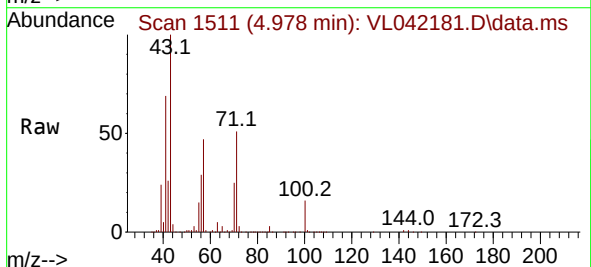
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

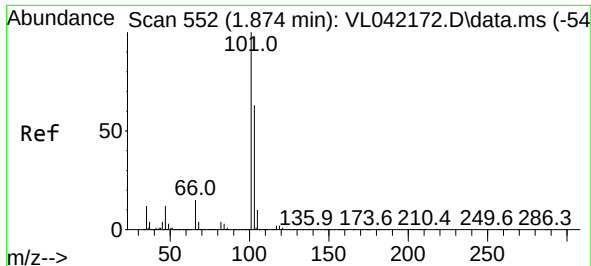
Tgt Ion: 41 Resp: 102862  
Ion Ratio Lower Upper  
41 100  
42 68.5 55.4 83.2



#10  
Heptane  
Concen: 9.514 ppbv  
RT: 4.978 min Scan# 1511  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 43 Resp: 290621  
Ion Ratio Lower Upper  
43 100  
57 49.6 39.4 59.2

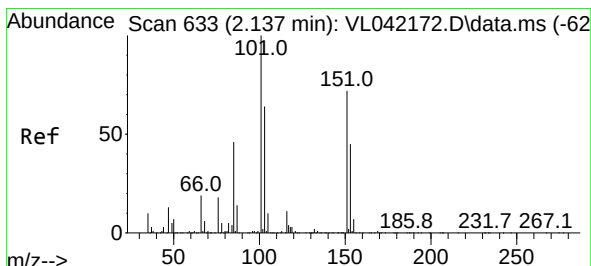
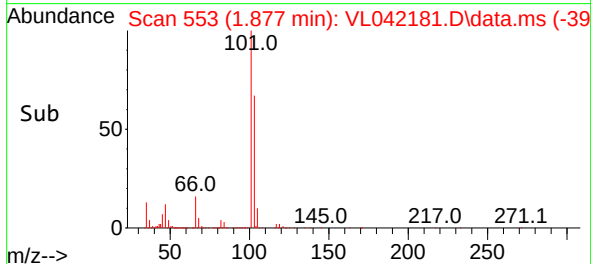
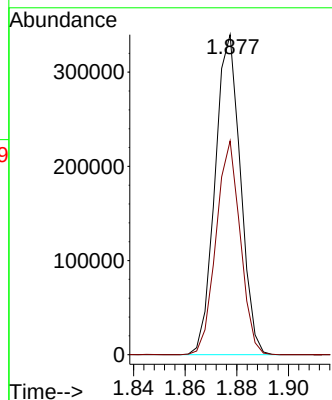
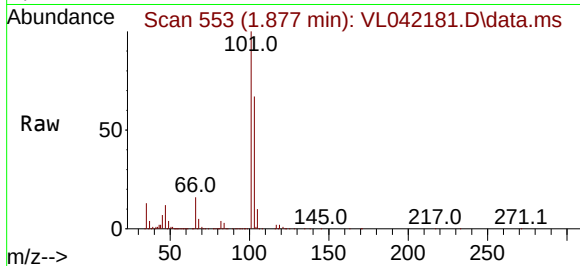




#11  
Trichlorofluoromethane  
Concen: 9.725 ppbv  
RT: 1.877 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

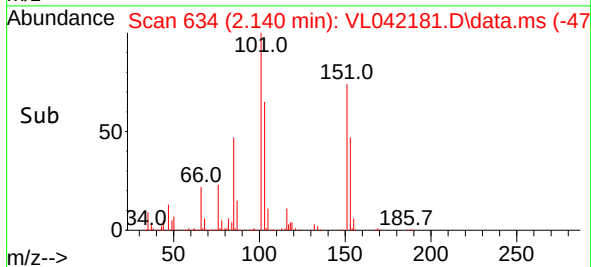
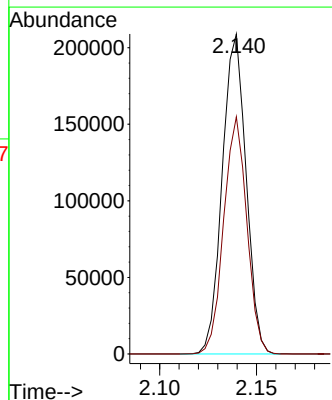
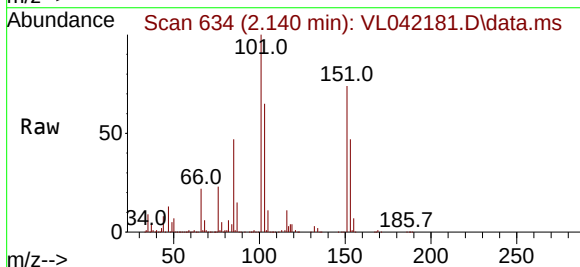
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

Tgt Ion:101 Resp: 232086  
Ion Ratio Lower Upper  
101 100  
103 66.8 50.2 75.2

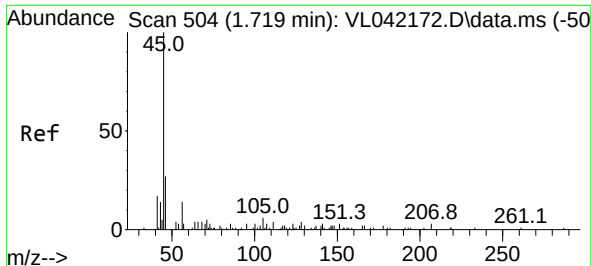


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.115 ppbv  
RT: 2.140 min Scan# 634  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion:101 Resp: 178792  
Ion Ratio Lower Upper  
101 100  
151 71.9 57.1 85.7



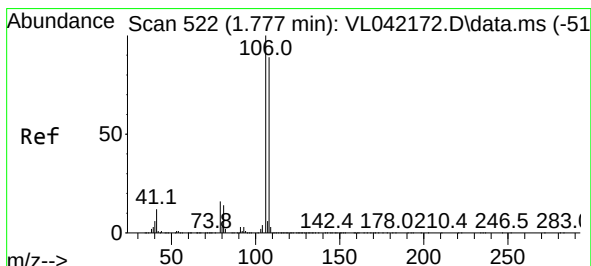
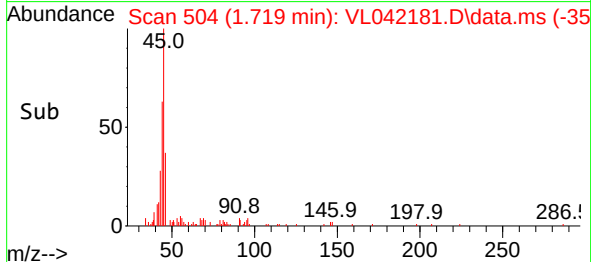
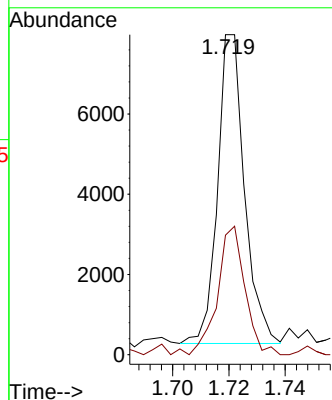
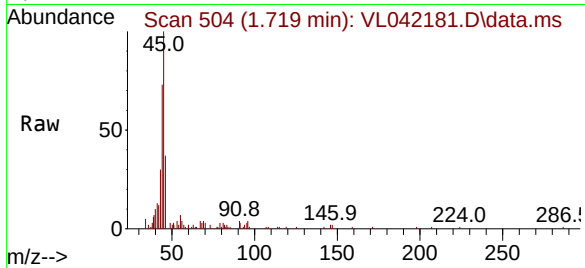




#13  
Ethanol  
Concen: 4.720 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

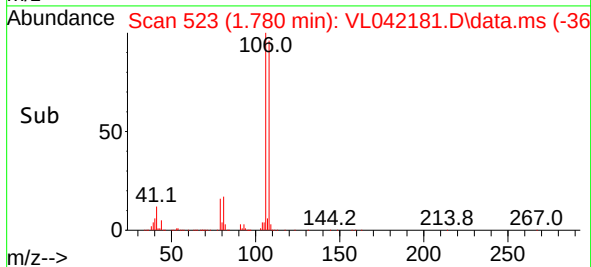
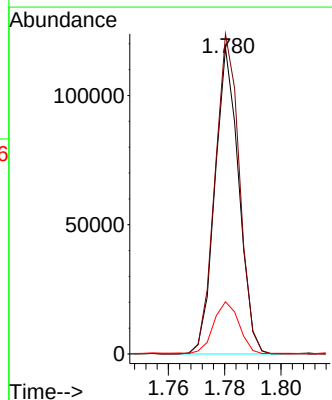
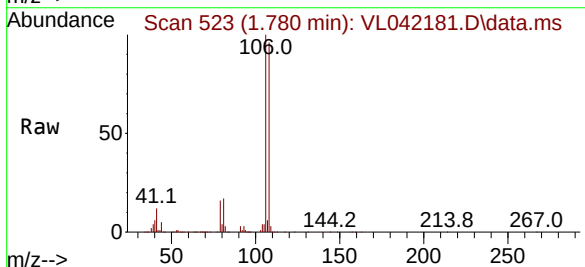
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

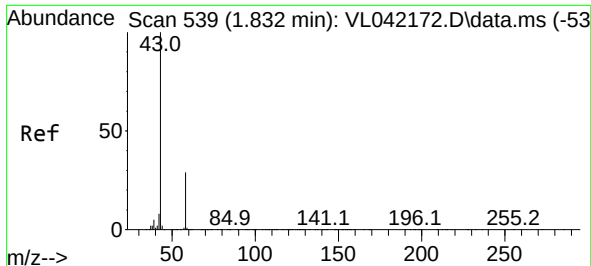
Tgt Ion: 45 Resp: 5124  
Ion Ratio Lower Upper  
45 100  
46 45.5 20.2 80.8



#14  
Bromoethene  
Concen: 9.286 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 108 Resp: 69775  
Ion Ratio Lower Upper  
108 100  
106 106.9 86.8 130.2  
79 18.1 15.0 22.6

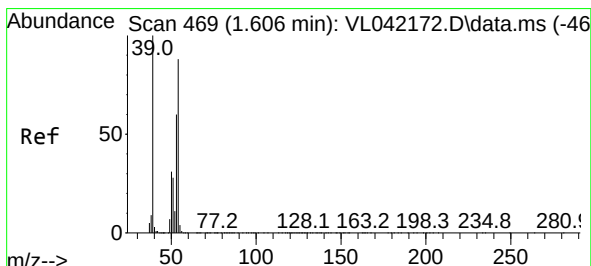
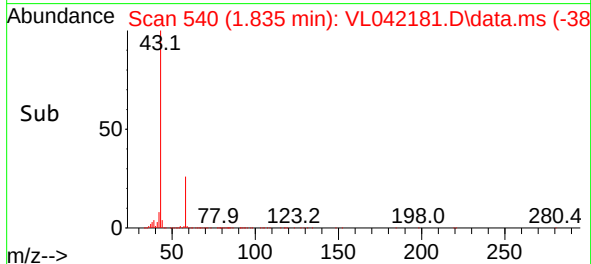
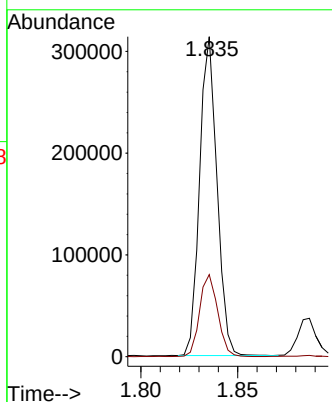
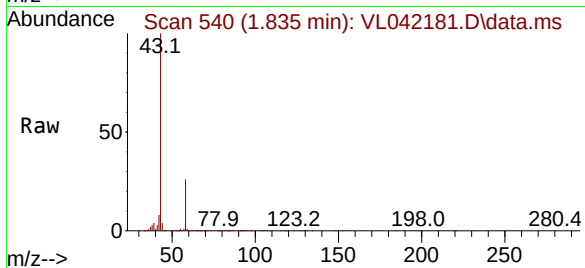




#15  
Acetone  
Concen: 8.425 ppbv  
RT: 1.835 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

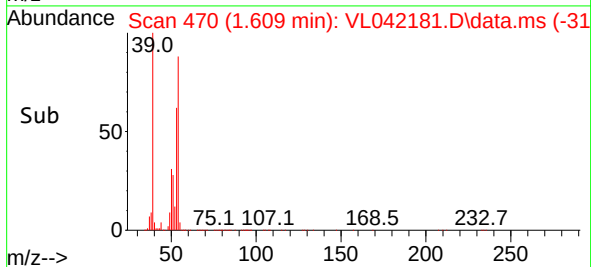
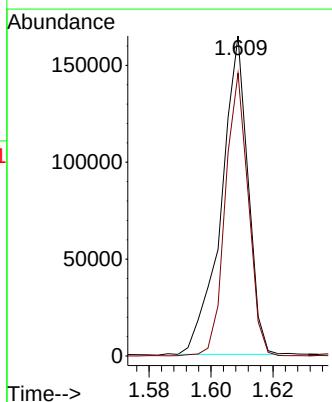
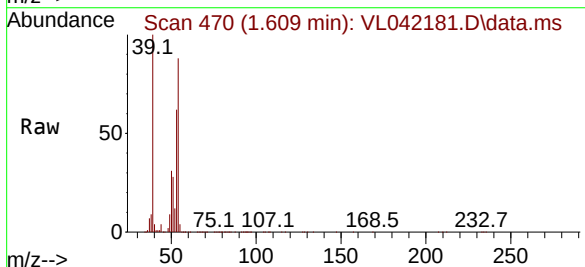
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

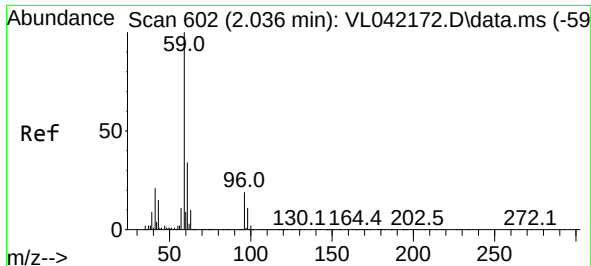
Tgt Ion: 43 Resp: 195717  
Ion Ratio Lower Upper  
43 100  
58 27.1 23.2 34.8



#16  
1,3-Butadiene  
Concen: 8.716 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 39 Resp: 98877  
Ion Ratio Lower Upper  
39 100  
54 76.1 60.7 91.1





#17

tert-Butyl alcohol

Concen: 9.208 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_L

ClientSampleId :

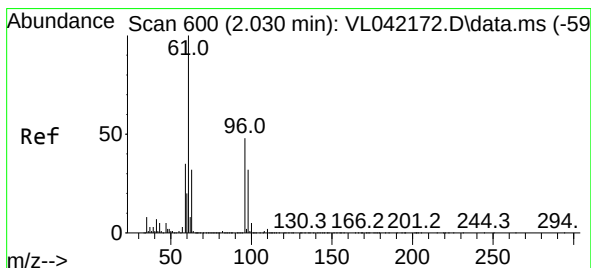
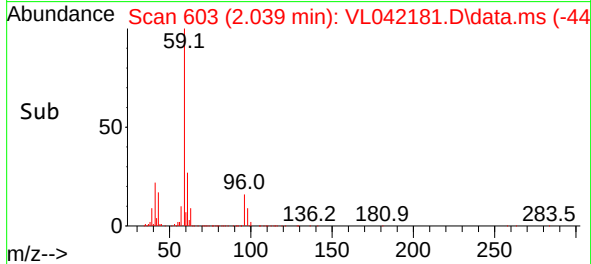
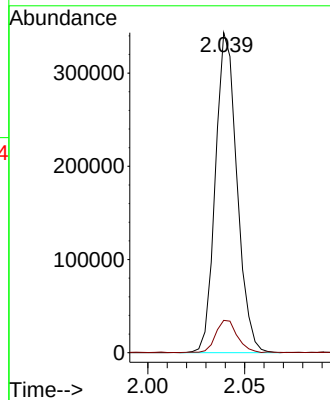
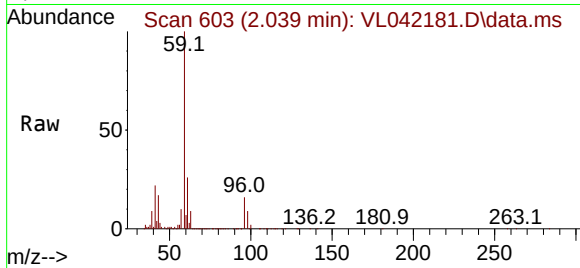
VL0327ABS01

Tgt Ion: 59 Resp: 266424

Ion Ratio Lower Upper

59 100

57 10.3 8.9 13.3



#18

1,1-Dichloroethene

Concen: 9.088 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

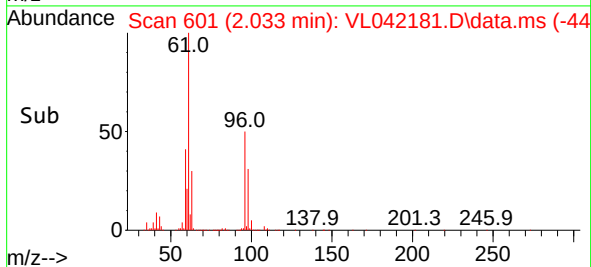
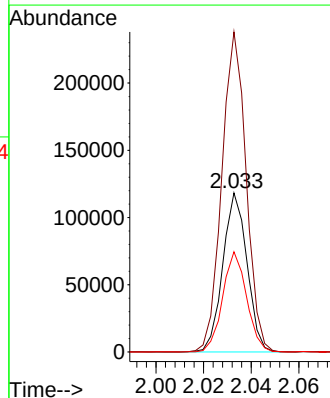
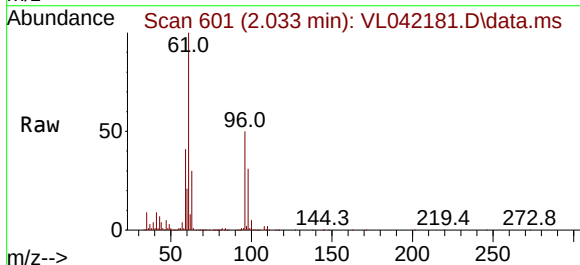
Tgt Ion: 96 Resp: 83339

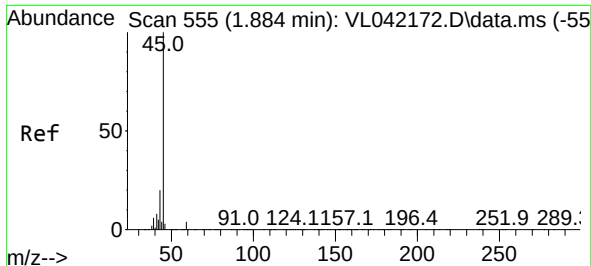
Ion Ratio Lower Upper

96 100

61 201.2 167.6 251.4

98 62.9 53.5 80.3

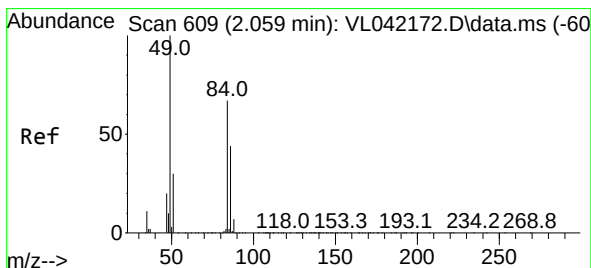
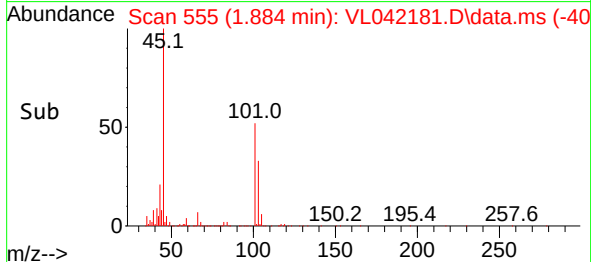
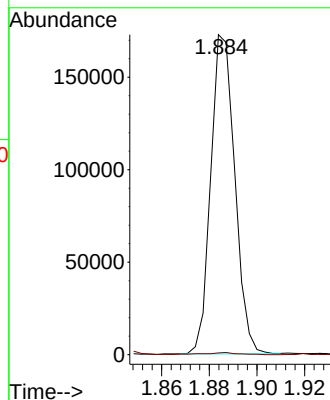
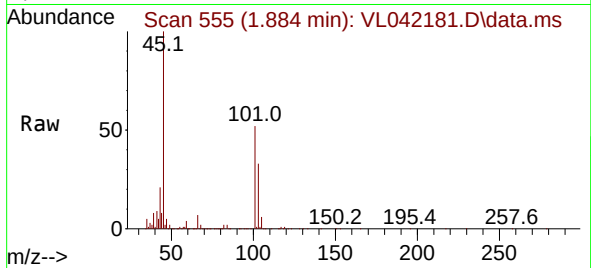




#19  
Isopropyl Alcohol  
Concen: 9.230 ppbv  
RT: 1.884 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

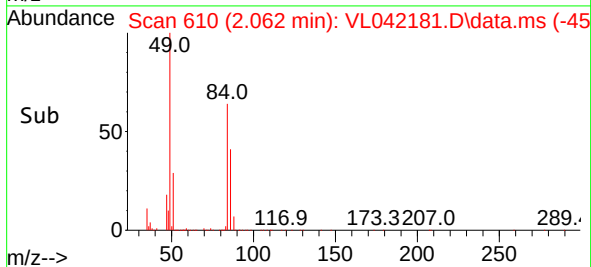
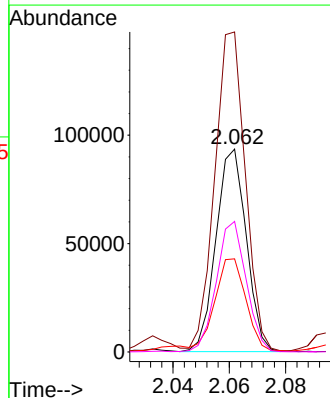
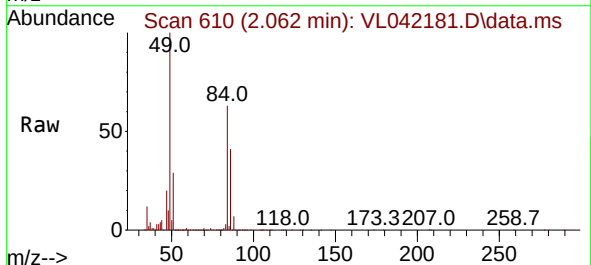
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

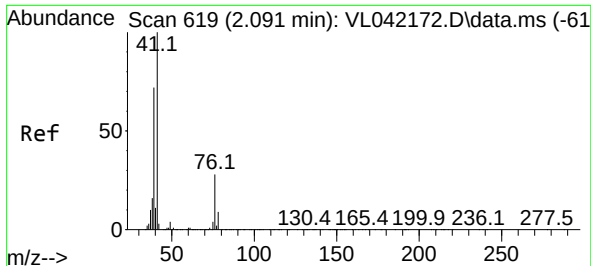
Tgt Ion: 45 Resp: 120986  
Ion Ratio Lower Upper  
45 100  
58 43.8 36.9 55.3



#20  
Methylene Chloride  
Concen: 8.083 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 84 Resp: 69930  
Ion Ratio Lower Upper  
84 100  
49 157.4 120.2 180.4  
51 45.2 37.4 56.0  
86 64.3 52.4 78.6

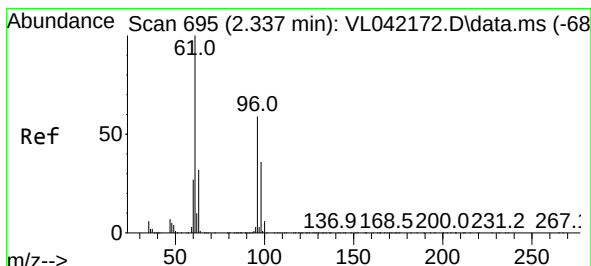
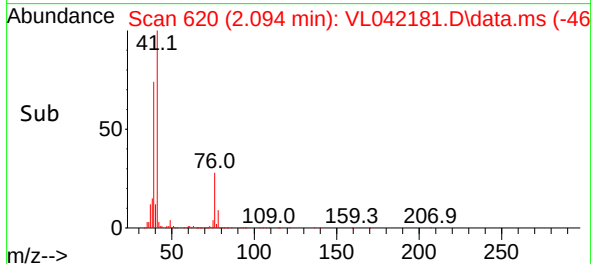
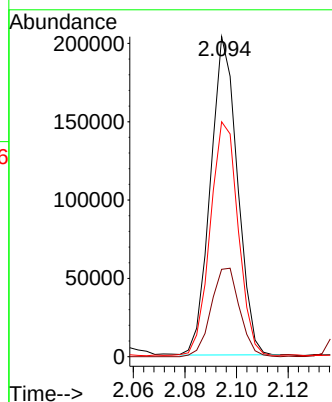
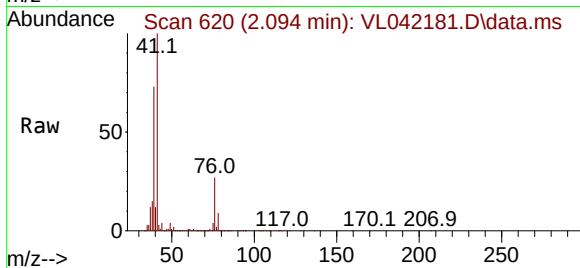




#21  
 Allyl Chloride  
 Concen: 9.022 ppbv  
 RT: 2.094 min Scan# 619  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

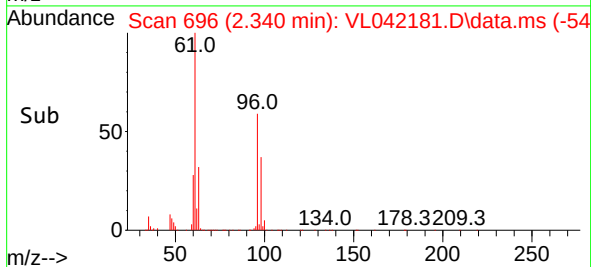
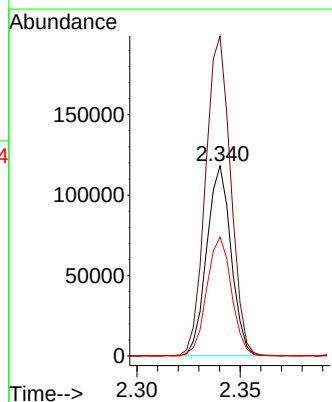
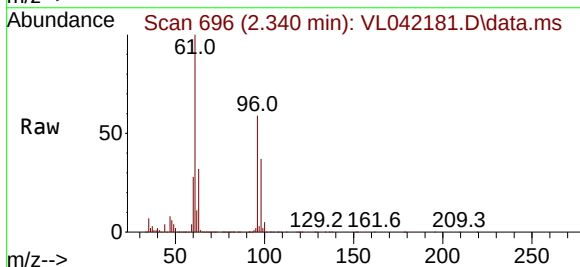
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0327ABS01

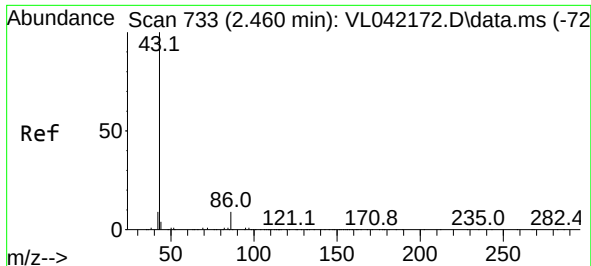
Tgt Ion: 41 Resp: 147810  
 Ion Ratio Lower Upper  
 41 100  
 76 29.4 24.1 36.1  
 39 76.2 61.1 91.7



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.116 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Tgt Ion: 96 Resp: 96616  
 Ion Ratio Lower Upper  
 96 100  
 61 168.4 136.6 204.8  
 98 62.5 49.4 74.2

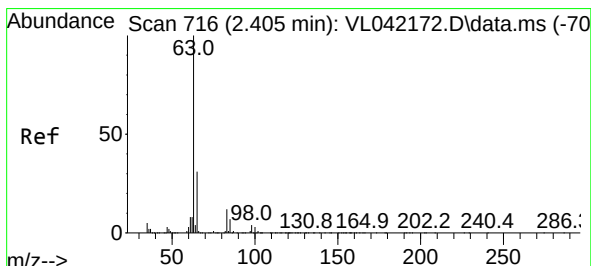
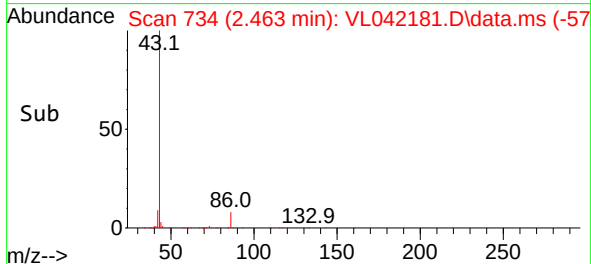
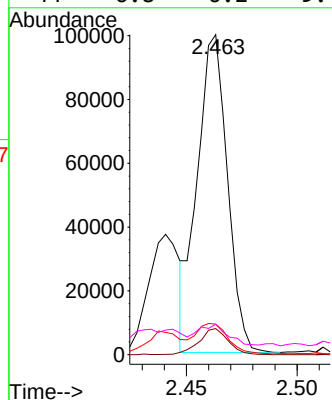
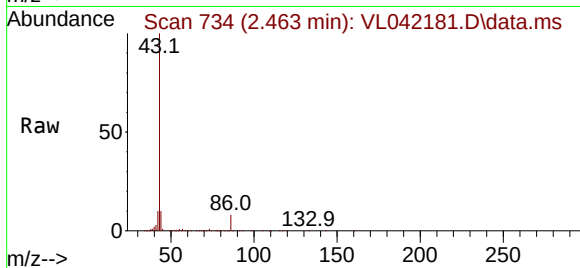




#23  
Vinyl Acetate  
Concen: 9.418 ppbv  
RT: 2.463 min Scan# 716  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

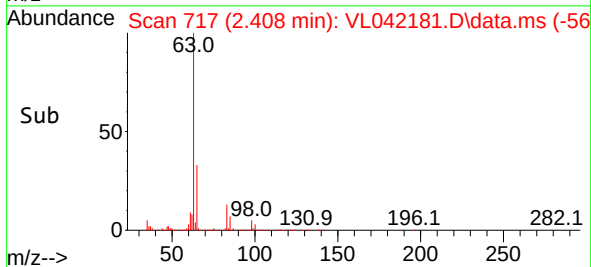
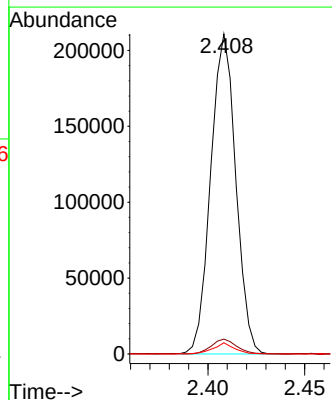
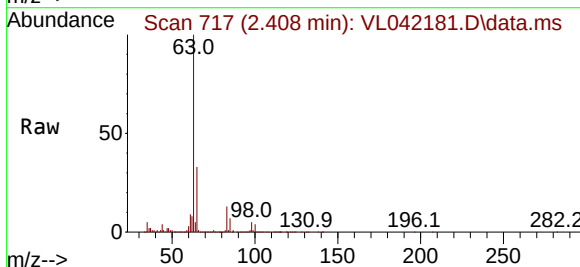
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

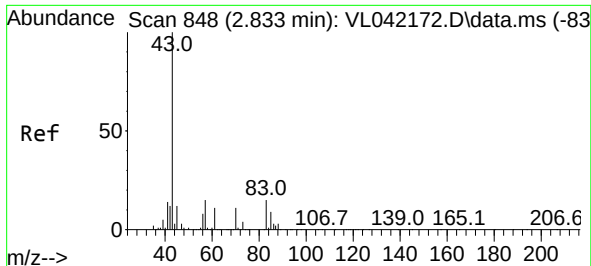
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 94696 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 8.2   | 5.5   | 8.3   |
| 42       | 9.2   | 8.6   | 13.0  |
| 44       | 6.8   | 6.2   | 9.4   |



#24  
1,1-Dichloroethane  
Concen: 9.661 ppbv  
RT: 2.408 min Scan# 717  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 189793 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 4.5   | 2.3   | 6.8    |
| 100      | 3.5   | 1.6   | 4.7    |

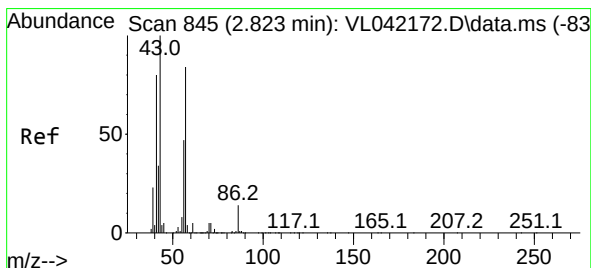
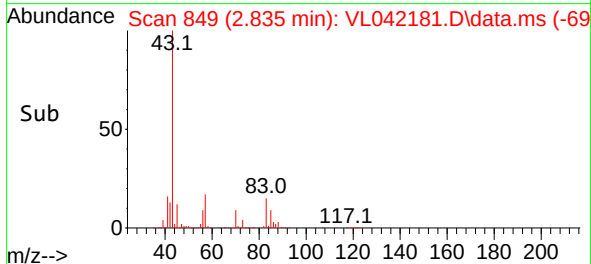
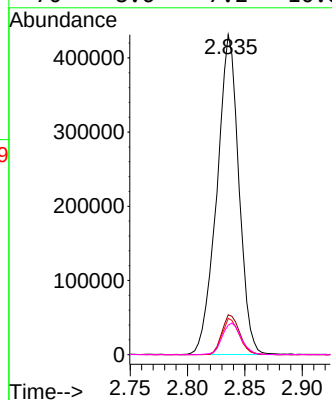
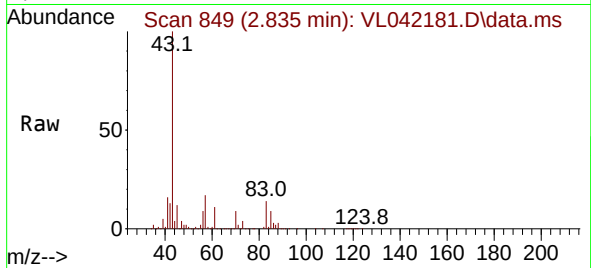




#25  
Ethyl Acetate  
Concen: 9.528 ppbv  
RT: 2.835 min Scan# 84  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

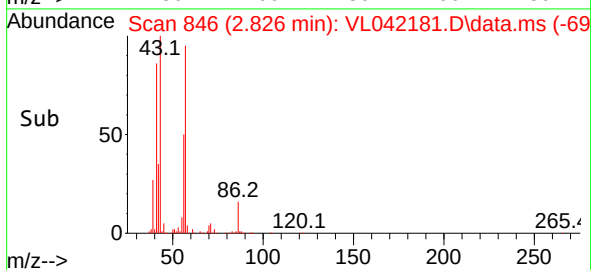
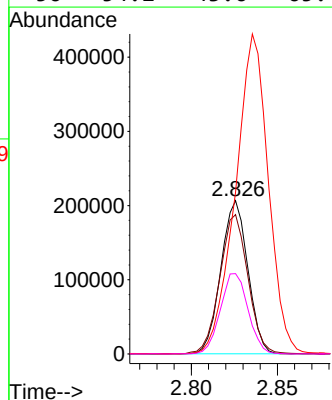
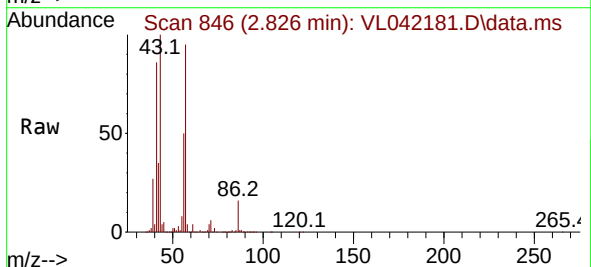
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

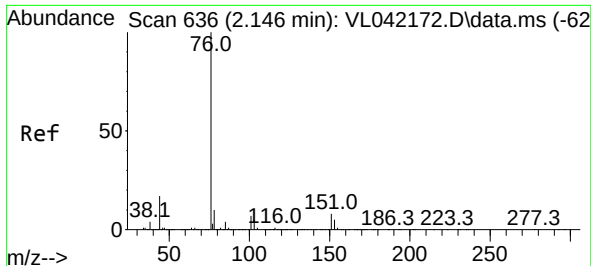
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 574442 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 45 10.1     | 8.2 12.2     |
| 61 9.0      | 7.3 10.9     |
| 70 8.6      | 7.2 10.8     |



#26  
Hexane  
Concen: 9.649 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 224704 |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 95.3     | 76.6 114.8   |
| 43 255.9    | 207.8 311.8  |
| 56 54.2     | 43.6 65.4    |

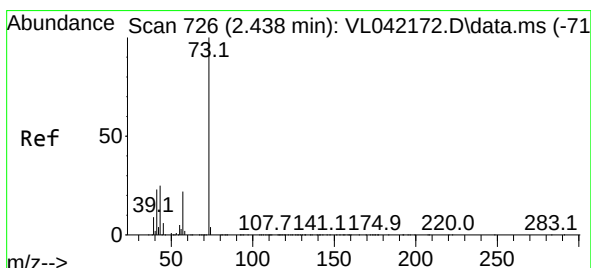
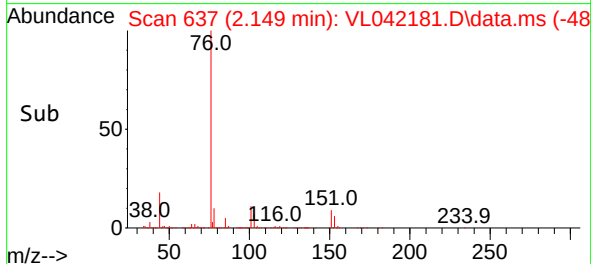
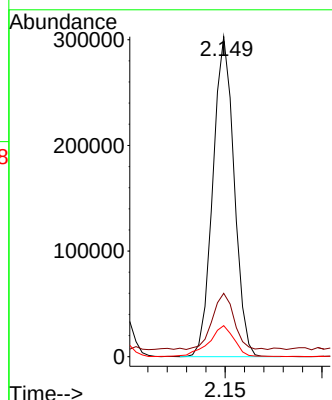
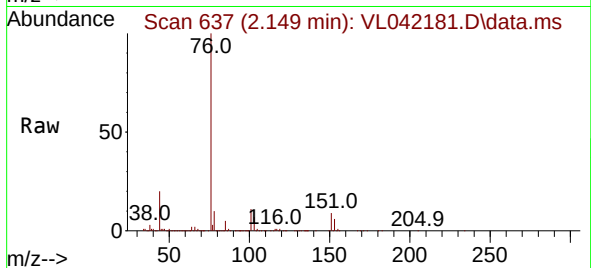




#27  
Carbon Disulfide  
Concen: 9.226 ppbv  
RT: 2.149 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

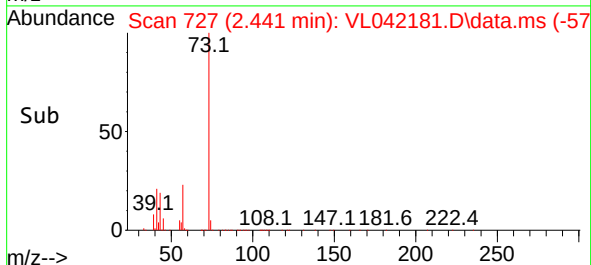
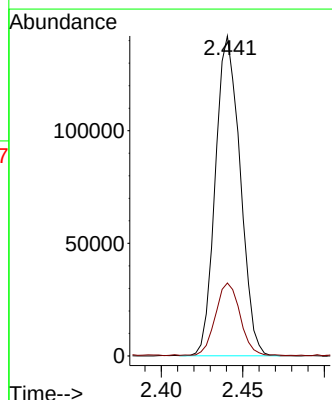
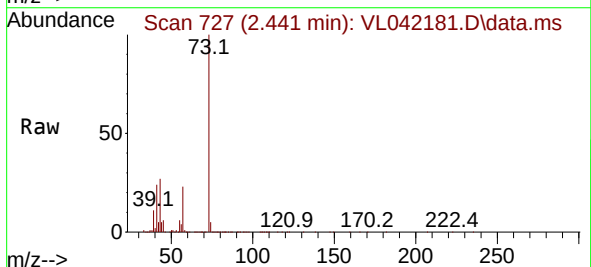
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

Tgt Ion: 76 Resp: 230410  
Ion Ratio Lower Upper  
76 100  
44 22.5 14.7 22.1#  
78 11.5 9.3 13.9

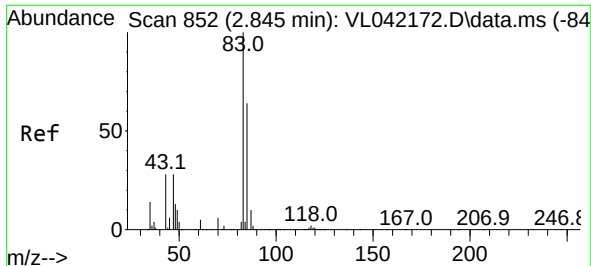


#28  
Methyl tert-Butyl Ether  
Concen: 10.342 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 73 Resp: 149961  
Ion Ratio Lower Upper  
73 100  
57 23.0 20.5 30.7







#29

Chloroform

Concen: 9.870 ppbv

RT: 2.848 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_L

ClientSampleId :

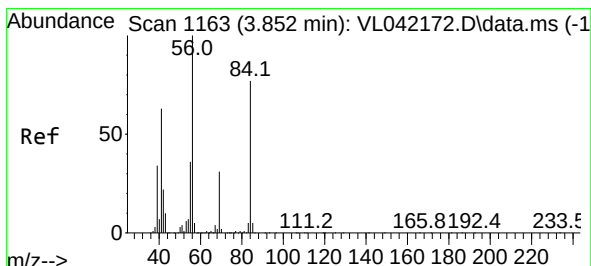
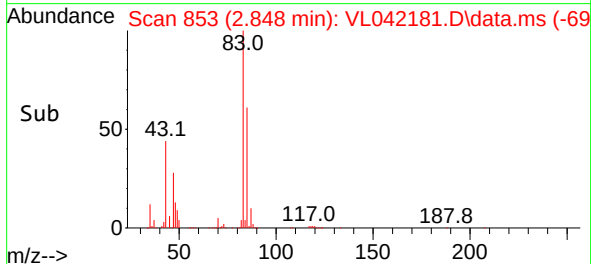
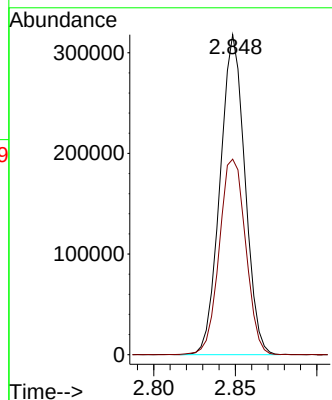
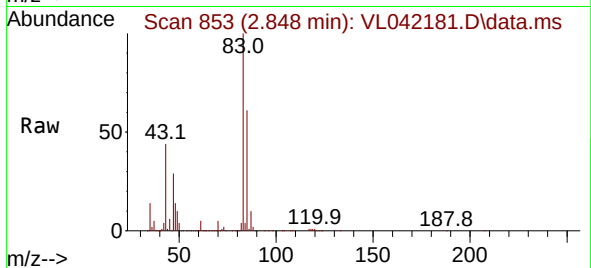
VL0327ABS01

Tgt Ion: 83 Resp: 336404

Ion Ratio Lower Upper

83 100

85 61.0 51.4 77.2



#30

Cyclohexane

Concen: 9.604 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

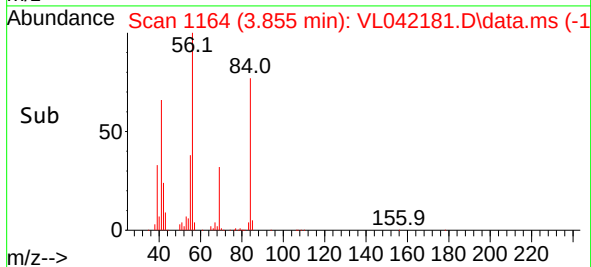
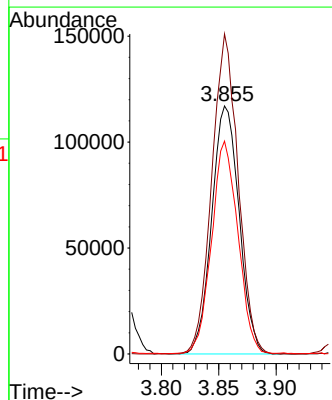
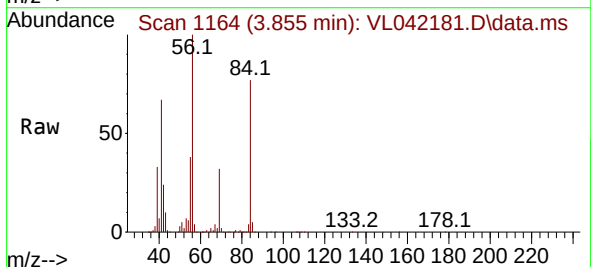
Tgt Ion: 84 Resp: 194220

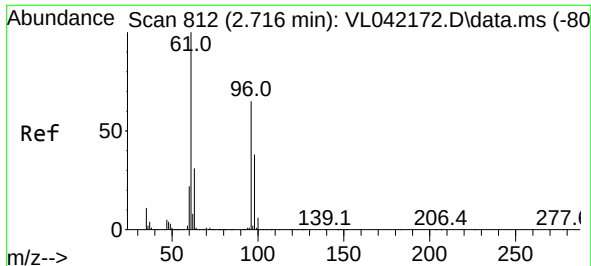
Ion Ratio Lower Upper

84 100

56 124.4 102.8 154.2

41 82.7 66.5 99.7

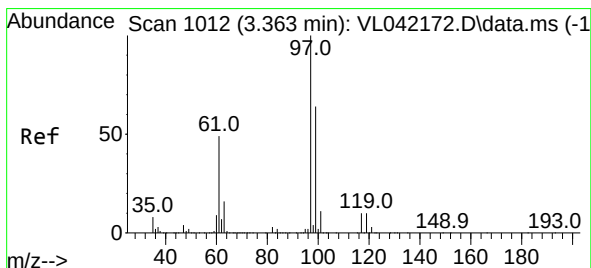
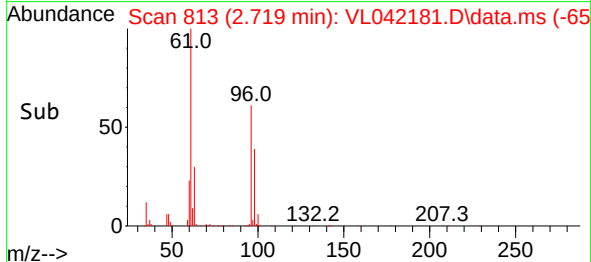
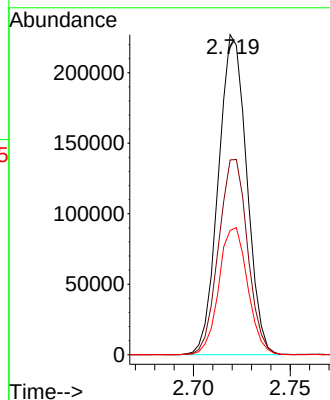
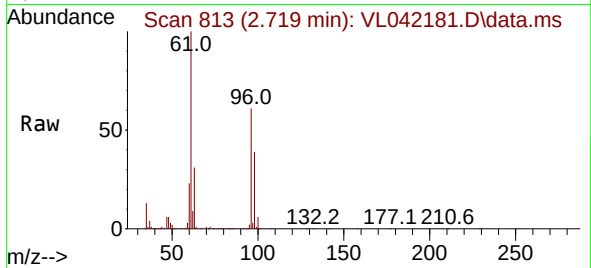




#31  
 cis-1,2-Dichloroethene  
 Concen: 9.777 ppbv  
 RT: 2.719 min Scan# 812  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

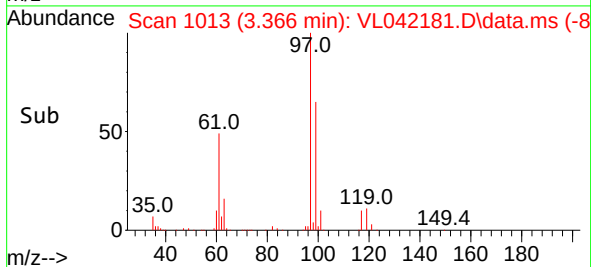
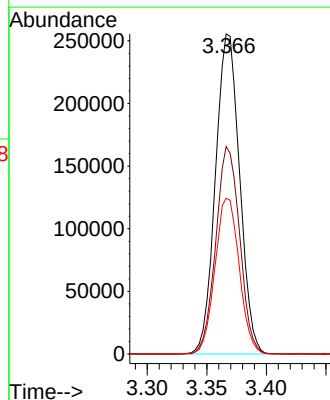
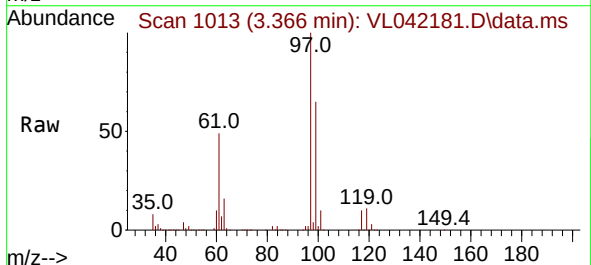
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0327ABS01

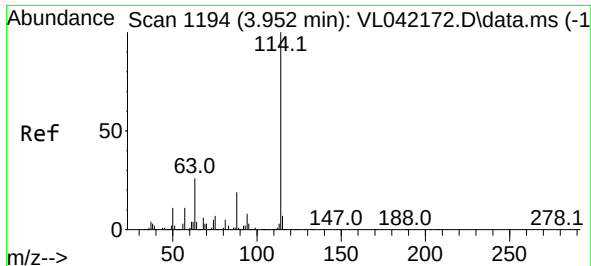
Tgt Ion: 61 Resp: 231151  
 Ion Ratio Lower Upper  
 61 100  
 96 60.8 51.8 77.8  
 98 38.8 30.6 46.0



#32  
 1,1,1-Trichloroethane  
 Concen: 9.223 ppbv  
 RT: 3.366 min Scan# 1013  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Tgt Ion: 97 Resp: 359860  
 Ion Ratio Lower Upper  
 97 100  
 99 63.9 51.5 77.3  
 61 48.9 38.7 58.1

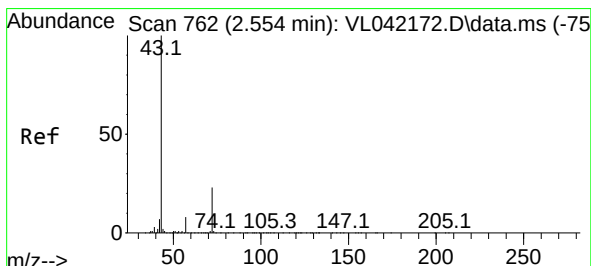
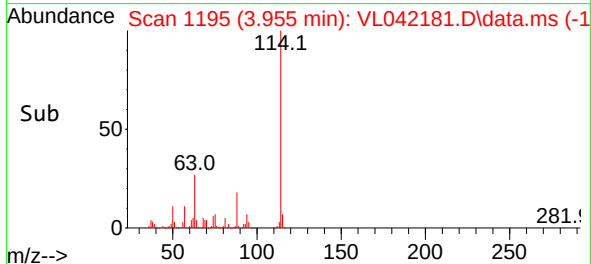
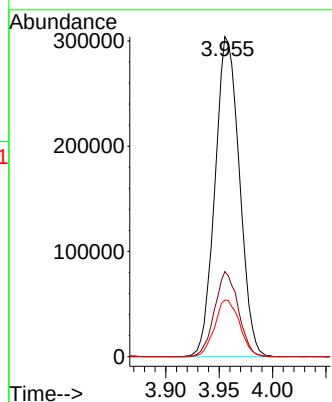
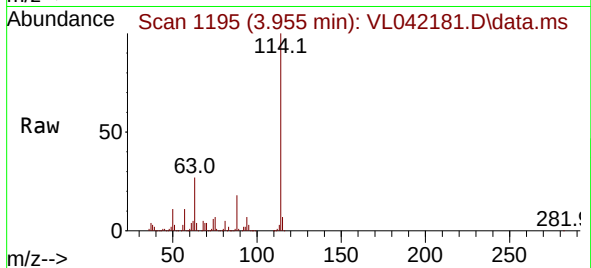




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.955 min Scan# 1195  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

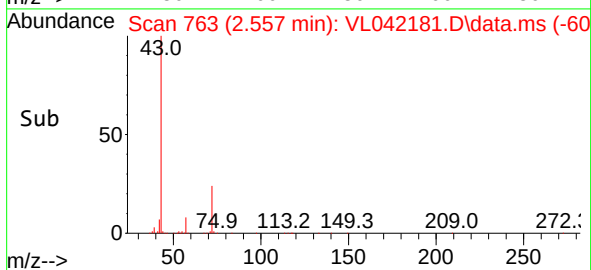
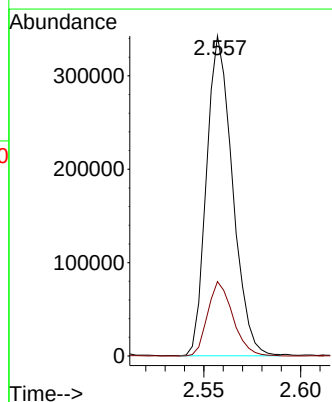
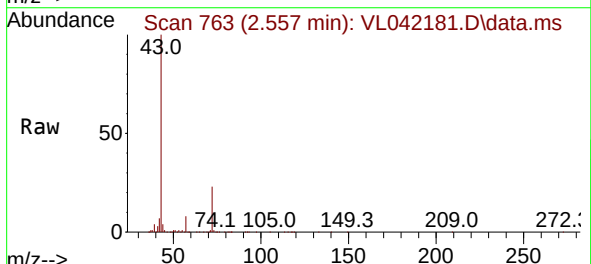
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

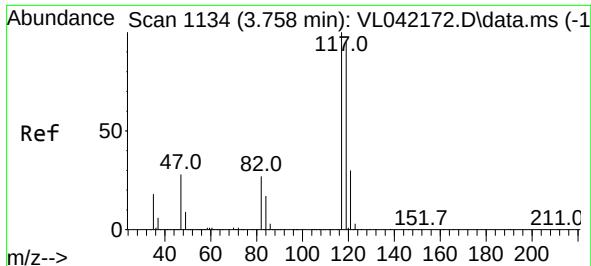
Tgt Ion:114 Resp: 483209  
Ion Ratio Lower Upper  
114 100  
63 25.9 20.7 31.1  
88 18.1 15.0 22.4



#34  
2-Butanone  
Concen: 9.157 ppbv  
RT: 2.557 min Scan# 763  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 43 Resp: 320843  
Ion Ratio Lower Upper  
43 100  
72 22.6 18.2 27.2

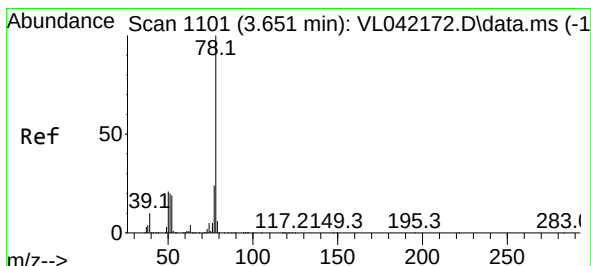
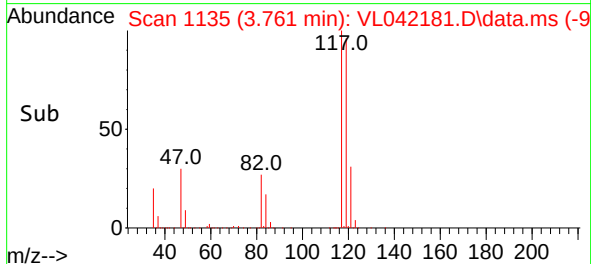
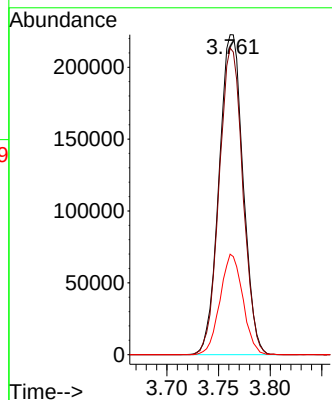
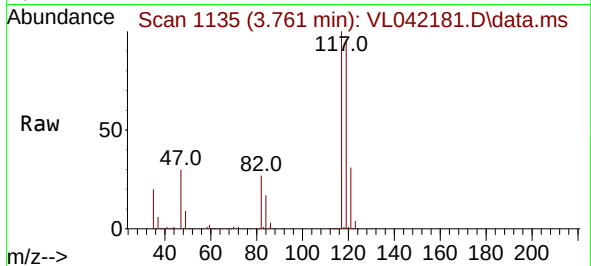




#35  
Carbon Tetrachloride  
Concen: 9.565 ppbv  
RT: 3.761 min Scan# 1135  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

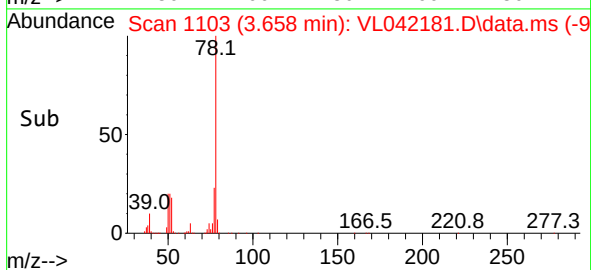
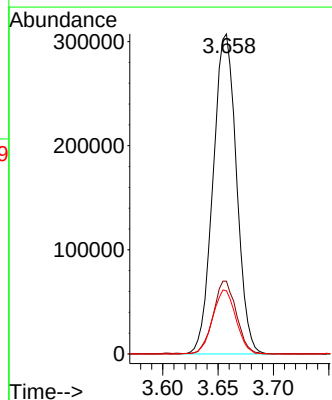
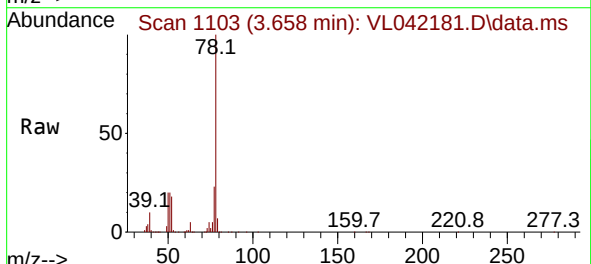
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

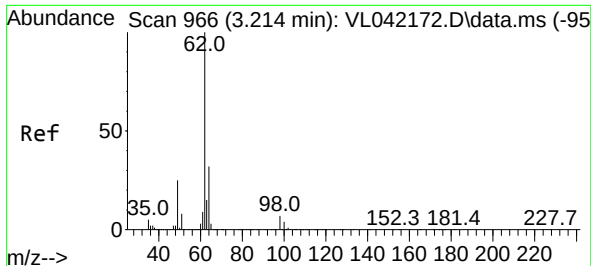
Tgt Ion:117 Resp: 361037  
Ion Ratio Lower Upper  
117 100  
119 95.8 76.2 114.2  
121 31.4 24.2 36.4



#36  
Benzene  
Concen: 9.450 ppbv  
RT: 3.658 min Scan# 1103  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 78 Resp: 452718  
Ion Ratio Lower Upper  
78 100  
77 22.7 19.1 28.7  
50 19.7 16.6 24.8





#37

1,2-Dichloroethane

Concen: 10.109 ppbv

RT: 3.217 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_1

ClientSampleId :

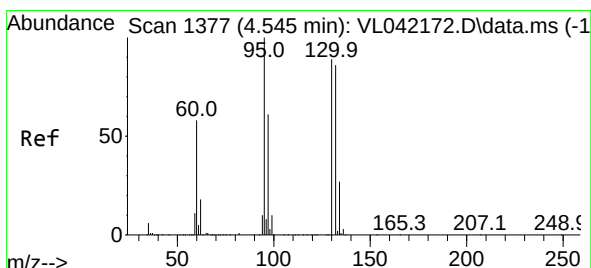
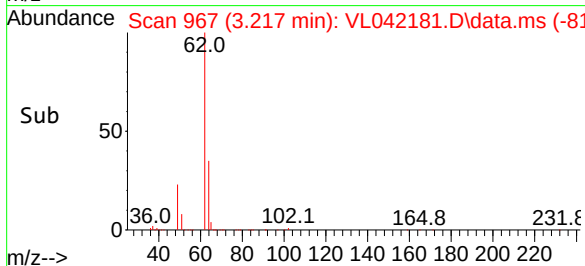
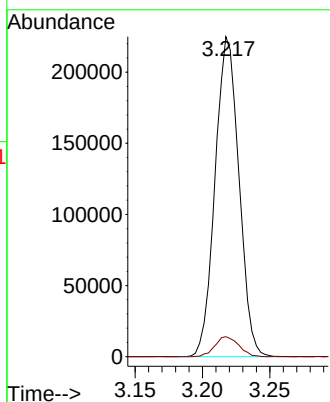
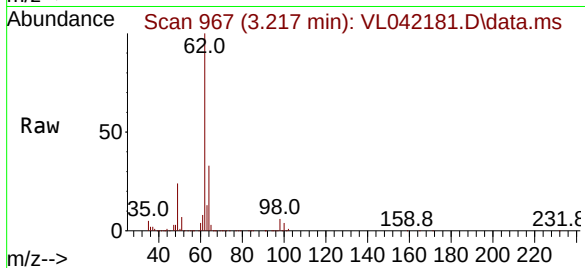
VL0327ABS01

Tgt Ion: 62 Resp: 277247

Ion Ratio Lower Upper

62 100

98 6.2 5.4 8.2



#38

Trichloroethene

Concen: 9.366 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.003 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

Tgt Ion:130 Resp: 187209

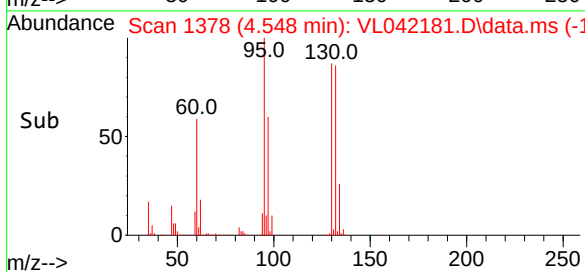
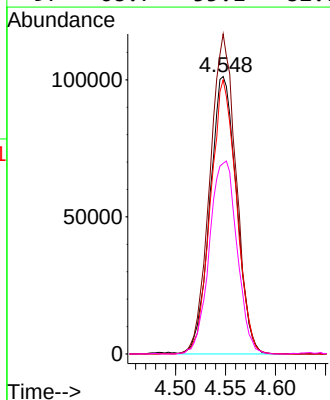
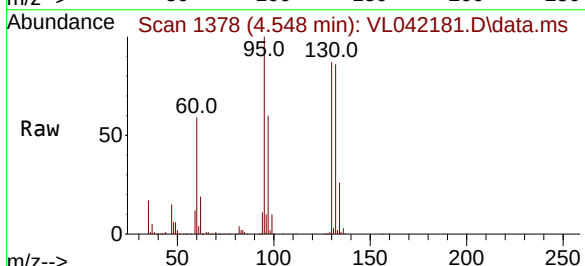
Ion Ratio Lower Upper

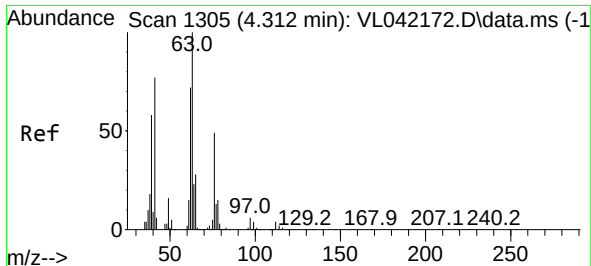
130 100

95 115.3 89.8 134.8

132 98.7 77.4 116.2

97 68.7 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.422 ppbv

RT: 4.315 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_1

ClientSampleId :

VL0327ABS01

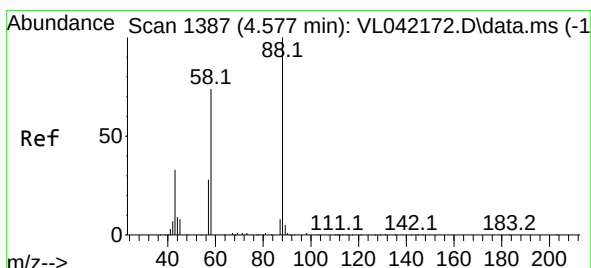
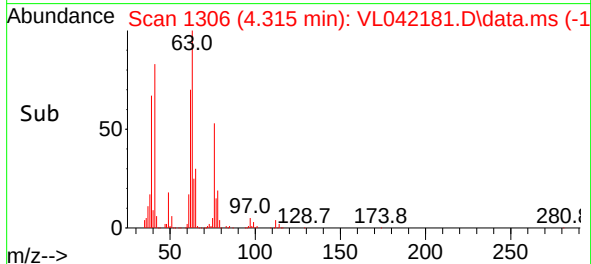
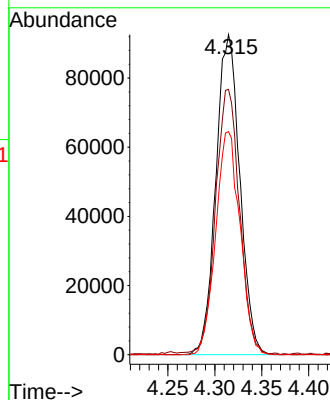
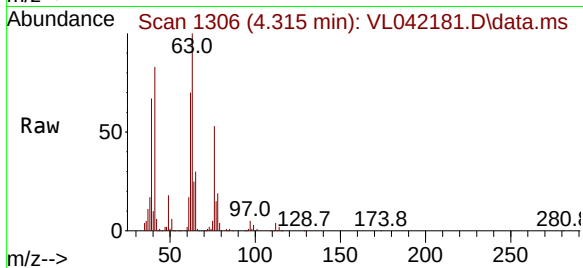
Tgt Ion: 63 Resp: 164374

Ion Ratio Lower Upper

63 100

41 82.9 61.7 92.5

62 69.7 57.6 86.4



#40

1,4-Dioxane

Concen: 8.857 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.006 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

Tgt Ion: 88 Resp: 82012

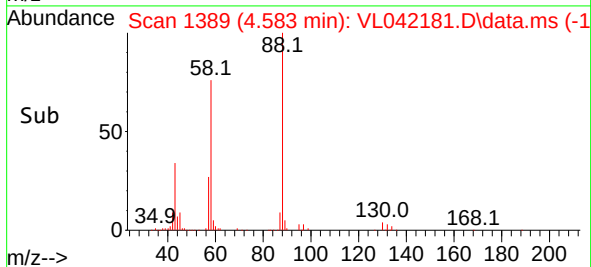
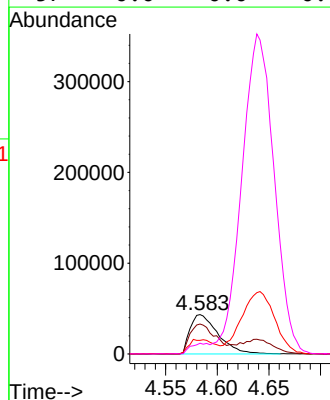
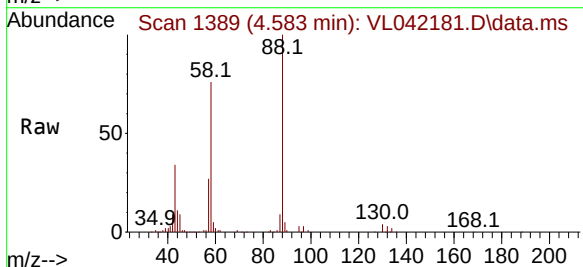
Ion Ratio Lower Upper

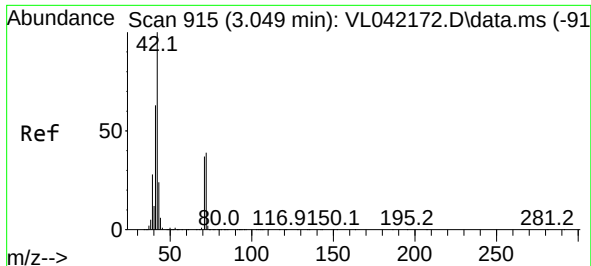
88 100

58 73.5 62.7 94.1

43 35.8 23.0 34.4#

57 0.0 0.0 0.0

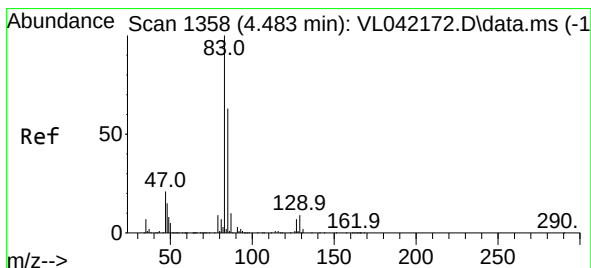
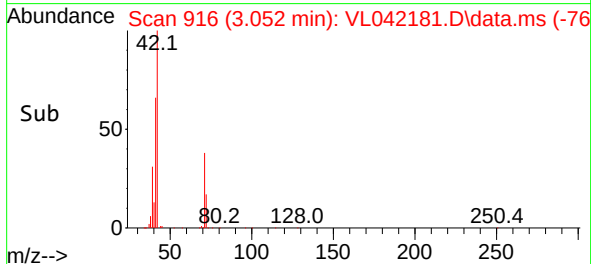
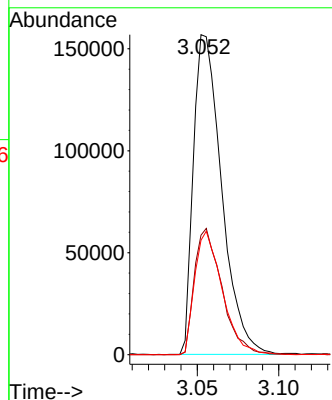
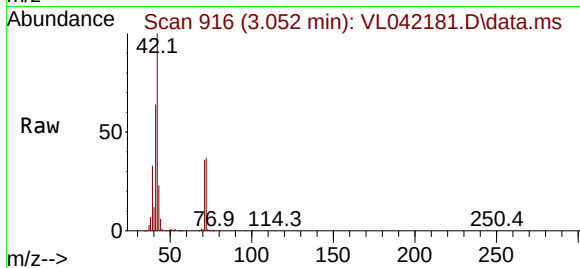




#41  
Tetrahydrofuran  
Concen: 9.362 ppbv  
RT: 3.052 min Scan# 915  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

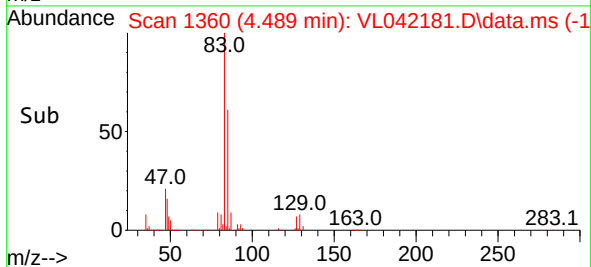
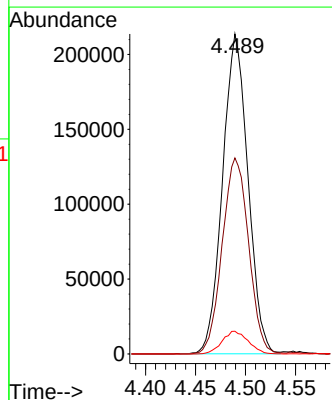
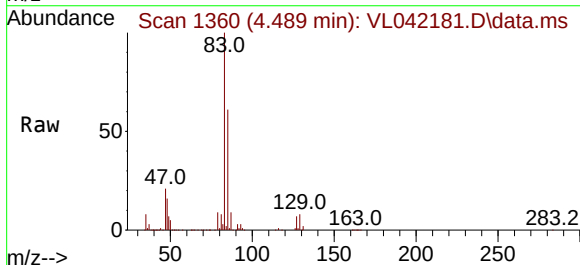
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

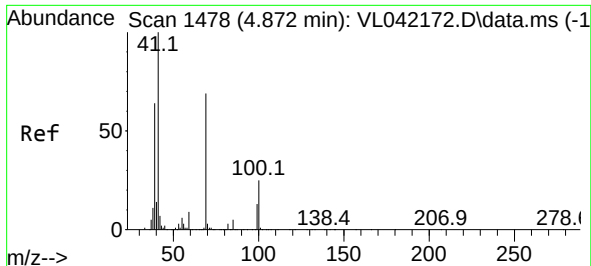
Tgt Ion: 42 Resp: 188907  
Ion Ratio Lower Upper  
42 100  
72 38.5 31.4 47.0  
71 37.8 30.2 45.4



#42  
Bromodichloromethane  
Concen: 9.974 ppbv  
RT: 4.489 min Scan# 1360  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 83 Resp: 377092  
Ion Ratio Lower Upper  
83 100  
85 61.3 50.5 75.7  
127 7.1 5.9 8.9

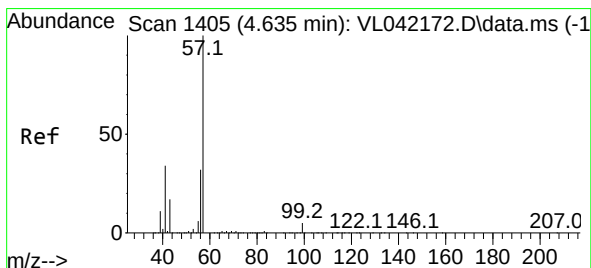
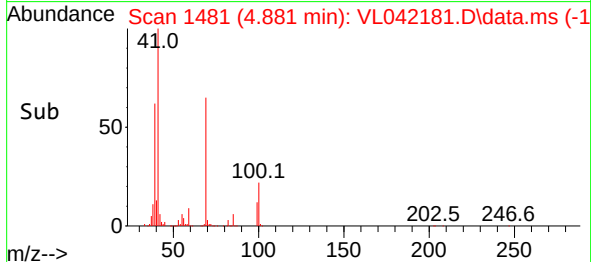
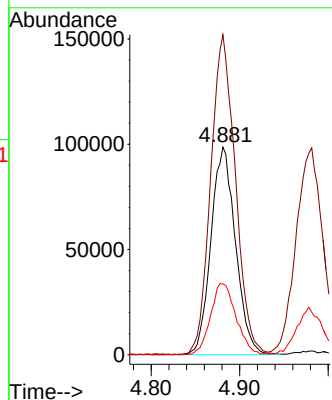
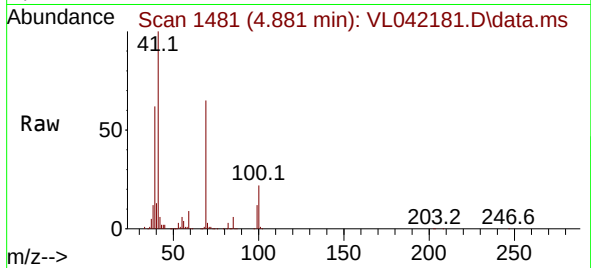




#43  
Methyl Methacrylate  
Concen: 9.377 ppbv  
RT: 4.881 min Scan# 1478  
Delta R.T. 0.009 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

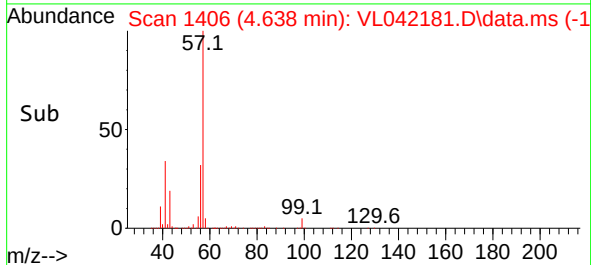
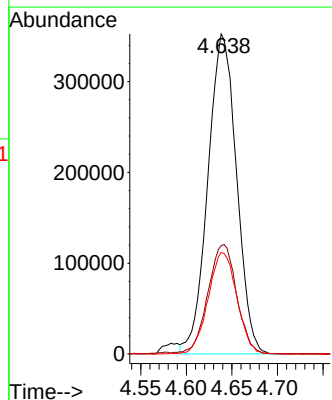
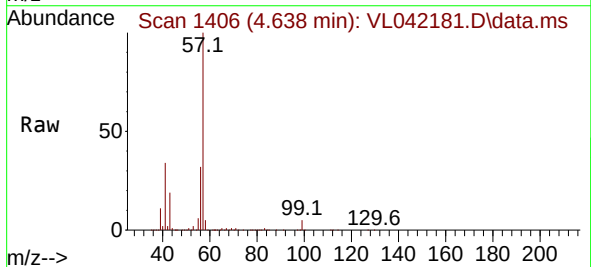
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

Tgt Ion: 69 Resp: 190156  
Ion Ratio Lower Upper  
69 100  
41 154.1 123.8 185.6  
100 35.7 28.4 42.6

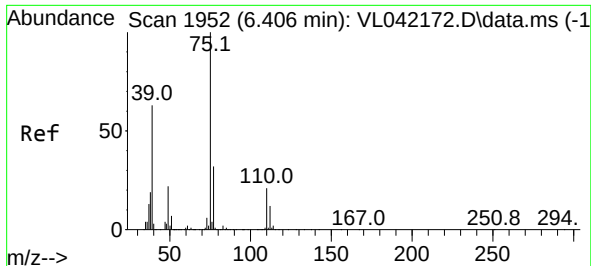


#44  
2,2,4-Trimethylpentane  
Concen: 9.509 ppbv  
RT: 4.638 min Scan# 1406  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 57 Resp: 769803  
Ion Ratio Lower Upper  
57 100  
41 34.8 26.8 40.2  
56 31.8 25.6 38.4



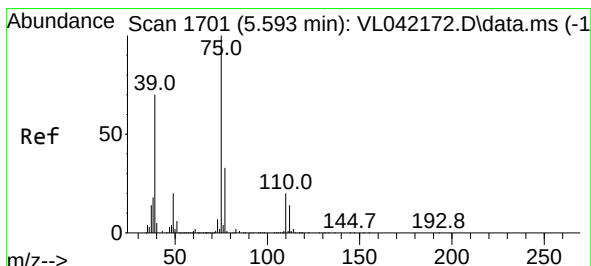
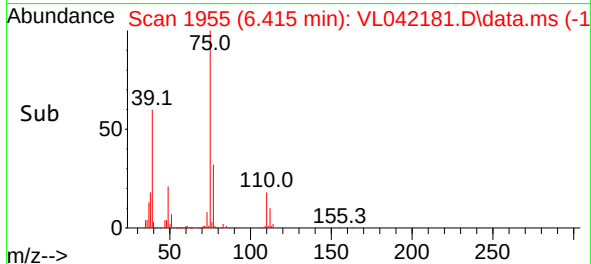
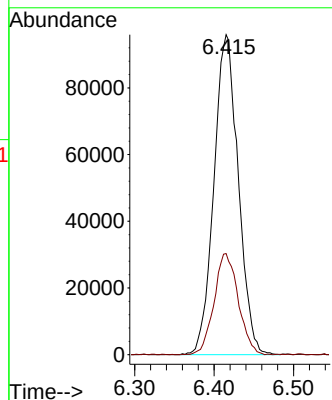
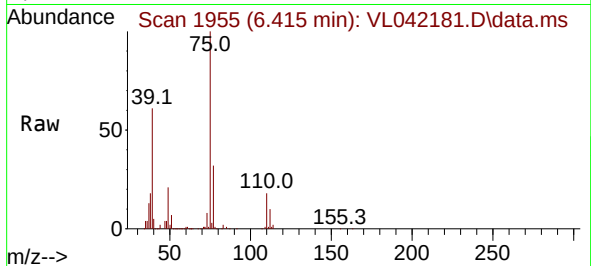




#45  
 t-1,3-Dichloropropene  
 Concen: 9.376 ppbv  
 RT: 6.415 min Scan# 1955  
 Delta R.T. 0.009 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

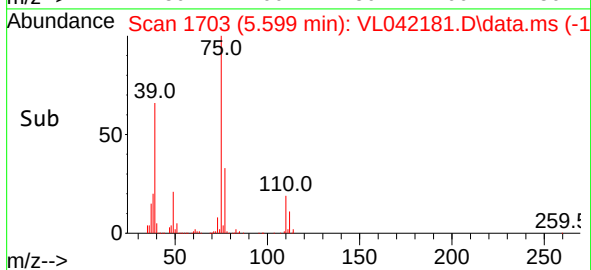
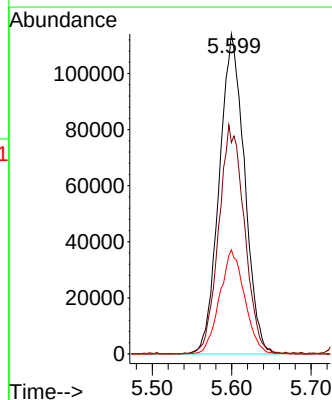
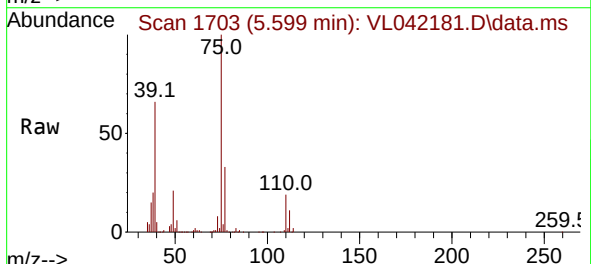
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0327ABS01

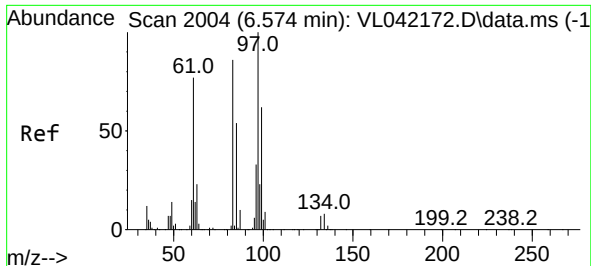
Tgt Ion: 75 Resp: 204004  
 Ion Ratio Lower Upper  
 75 100  
 77 31.6 26.0 39.0



#46  
 cis-1,3-Dichloropropene  
 Concen: 9.437 ppbv  
 RT: 5.599 min Scan# 1703  
 Delta R.T. 0.006 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Tgt Ion: 75 Resp: 251694  
 Ion Ratio Lower Upper  
 75 100  
 39 66.0 55.8 83.6  
 77 32.6 26.0 39.0

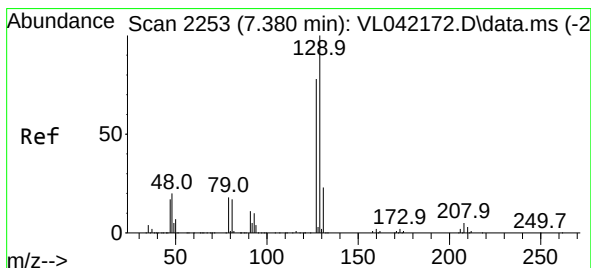
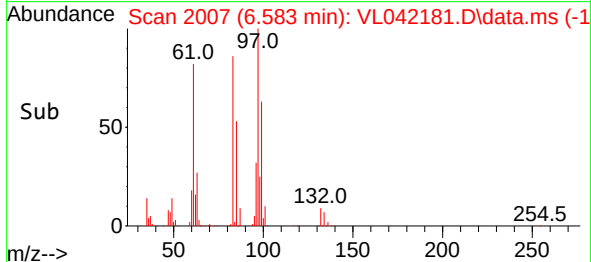
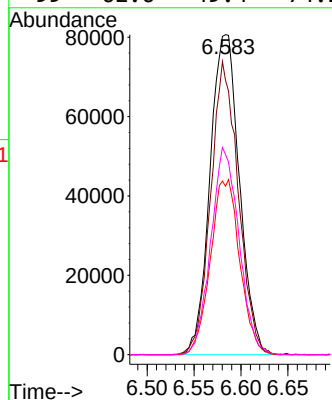
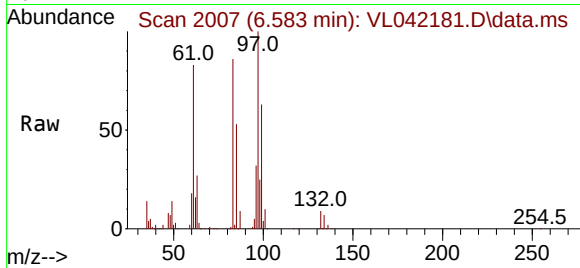




#47  
1,1,2-Trichloroethane  
Concen: 9.517 ppbv  
RT: 6.583 min Scan# 2007  
Delta R.T. 0.009 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

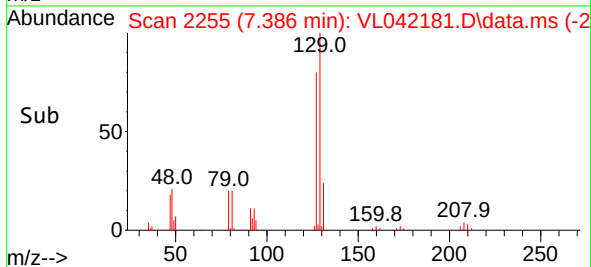
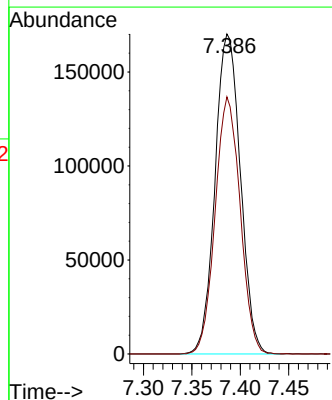
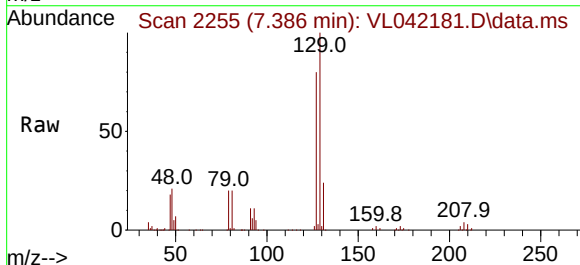
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

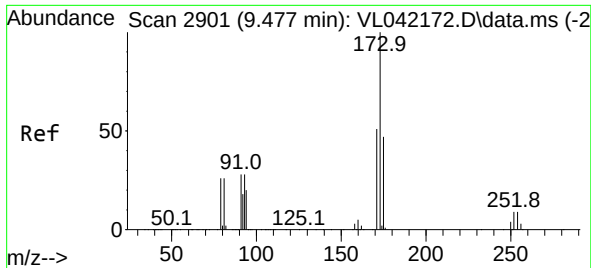
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 175509 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 85.6  | 69.2  | 103.8  |
| 85       | 52.6  | 43.1  | 64.7   |
| 99       | 62.6  | 49.4  | 74.2   |



#48  
Dibromochloromethane  
Concen: 9.923 ppbv  
RT: 7.386 min Scan# 2255  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 310158 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 79.1  | 39.1  | 117.2  |

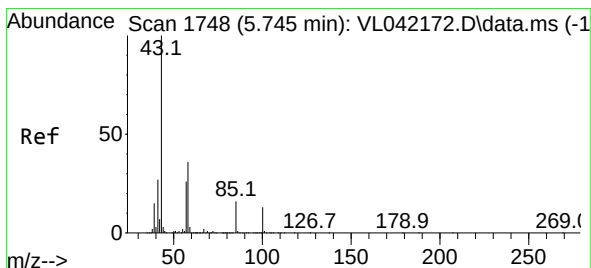
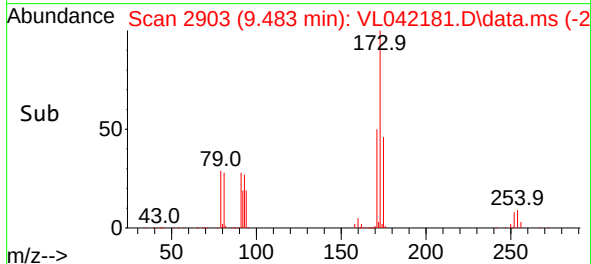
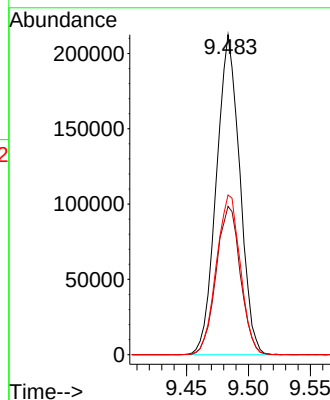
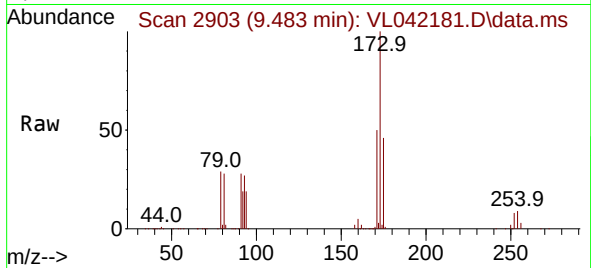




#49  
Bromoform  
Concen: 9.957 ppbv  
RT: 9.483 min Scan# 2903  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

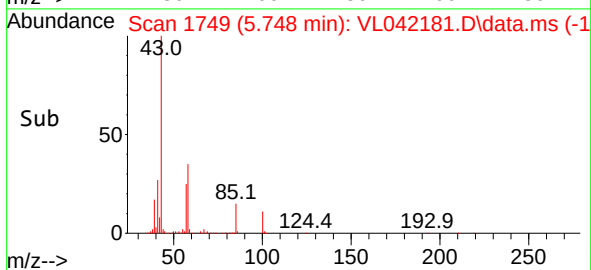
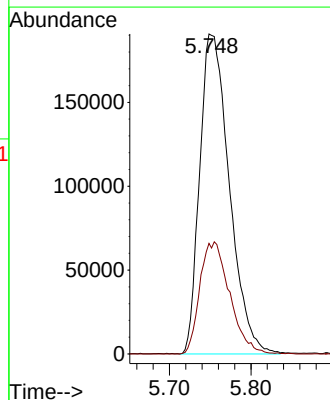
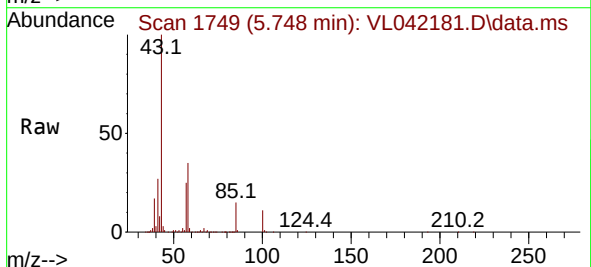
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

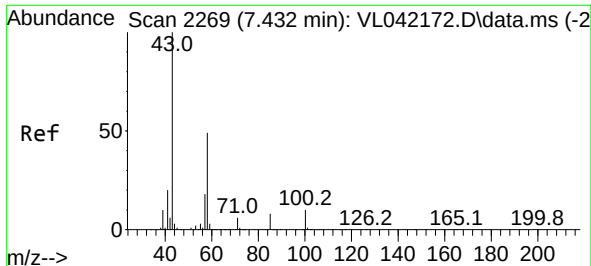
Tgt Ion:173 Resp: 279382  
Ion Ratio Lower Upper  
173 100  
175 48.0 38.6 57.8  
171 51.4 41.8 62.6



#50  
4-Methyl-2-Pentanone  
Concen: 8.679 ppbv  
RT: 5.748 min Scan# 1749  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 43 Resp: 481919  
Ion Ratio Lower Upper  
43 100  
58 35.3 29.0 43.6

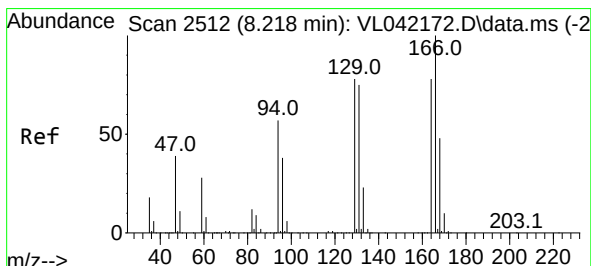
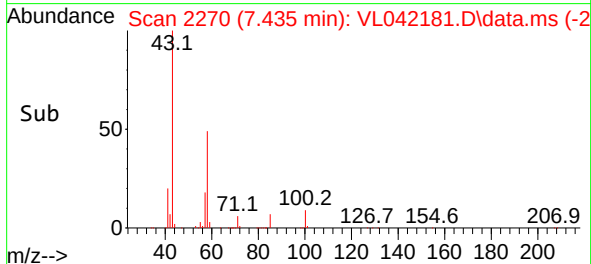
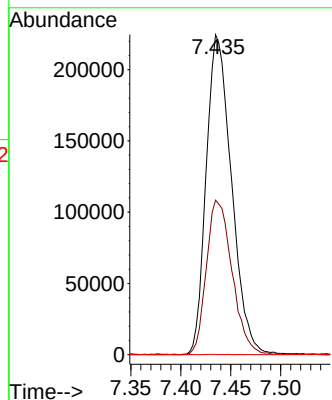
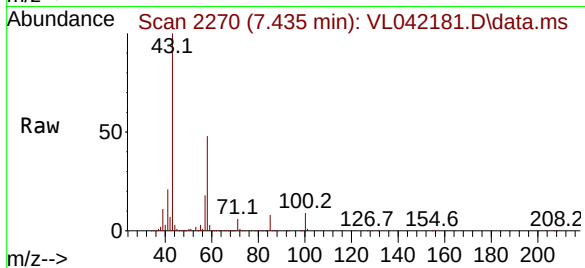




#51  
2-Hexanone  
Concen: 8.674 ppbv  
RT: 7.435 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

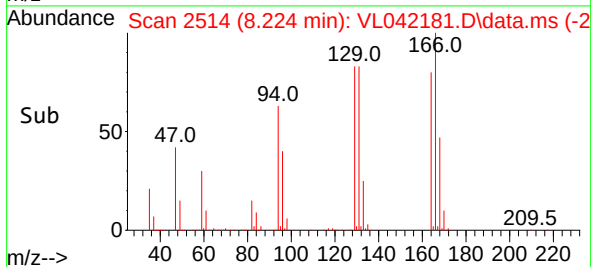
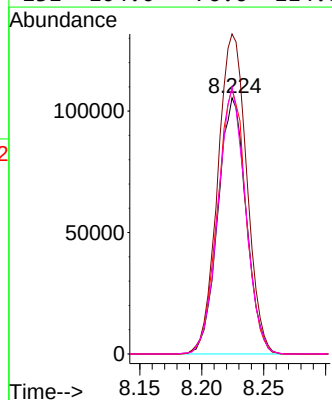
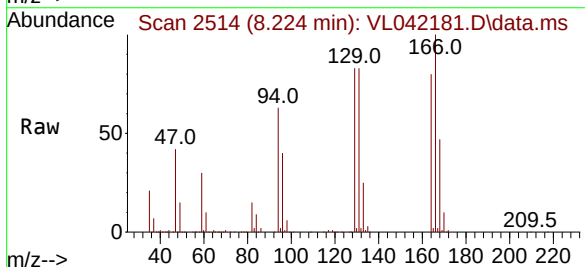
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

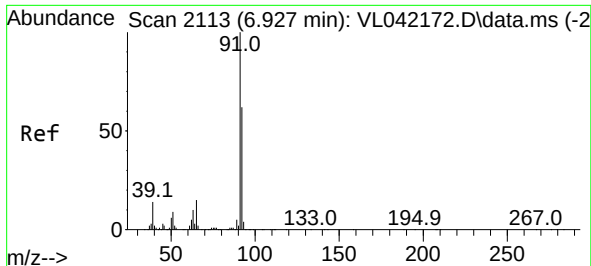
Tgt Ion: 43 Resp: 395520  
Ion Ratio Lower Upper  
43 100  
58 49.0 39.7 59.5  
98 0.1 0.1 0.1



#52  
Tetrachloroethene  
Concen: 8.791 ppbv  
RT: 8.224 min Scan# 2514  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 164 Resp: 167015  
Ion Ratio Lower Upper  
164 100  
166 124.8 102.5 153.7  
129 103.6 79.8 119.8  
131 104.0 76.6 114.8

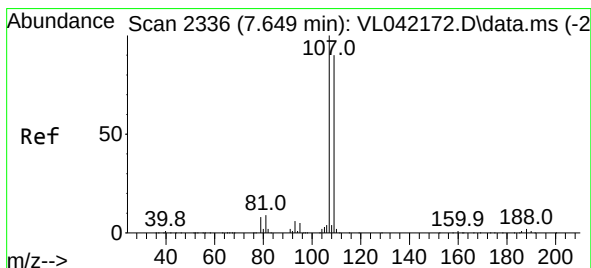
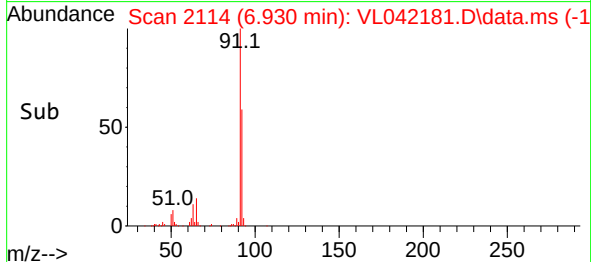
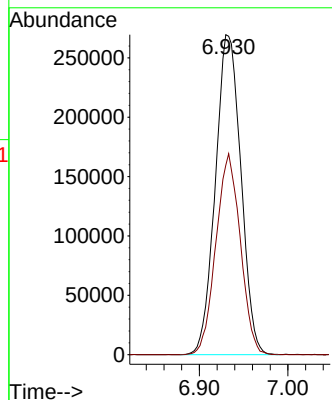
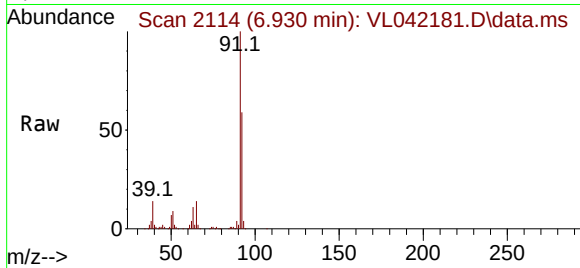




#53  
Toluene  
Concen: 9.520 ppbv  
RT: 6.930 min Scan# 2113  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

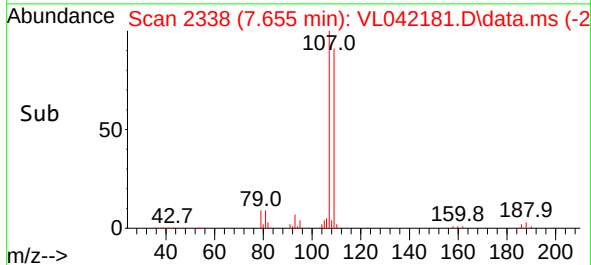
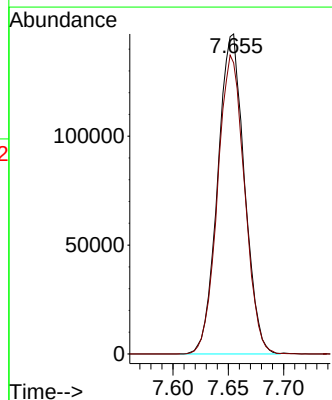
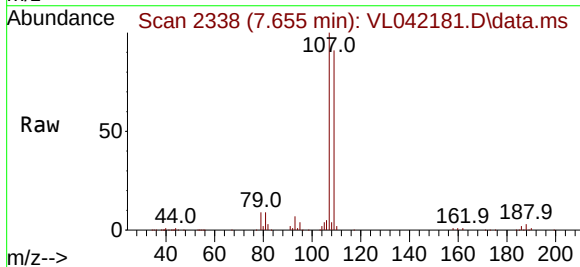
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

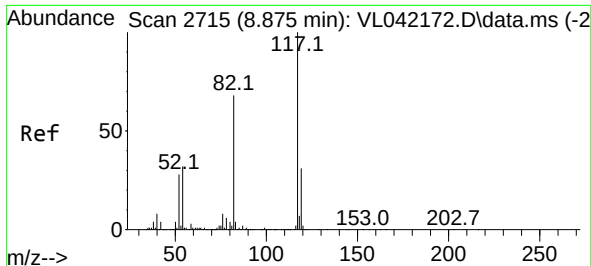
Tgt Ion: 91 Resp: 540612  
Ion Ratio Lower Upper  
91 100  
92 60.0 48.4 72.6



#54  
1,2-Dibromoethane  
Concen: 9.589 ppbv  
RT: 7.655 min Scan# 2338  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 107 Resp: 246519  
Ion Ratio Lower Upper  
107 100  
109 90.9 72.2 108.4

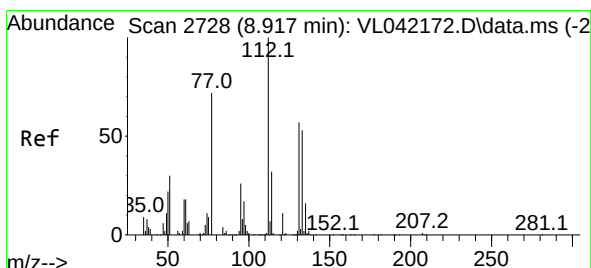
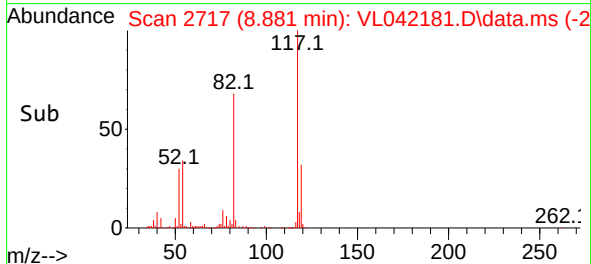
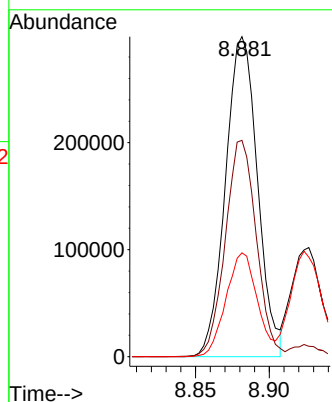
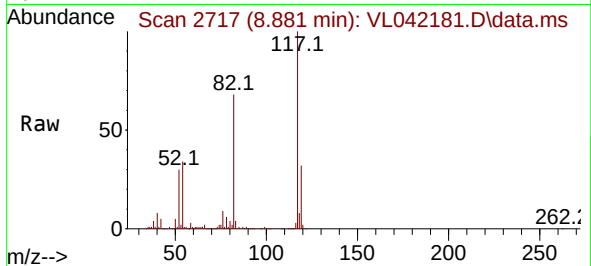




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.881 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

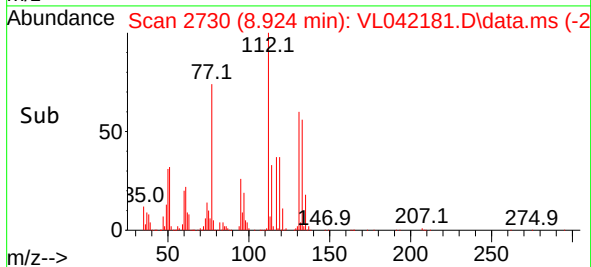
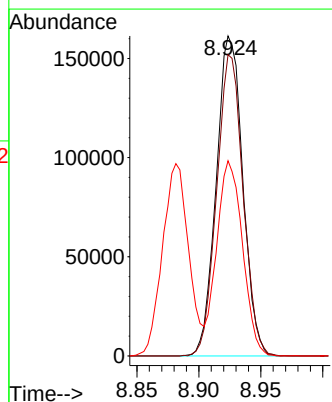
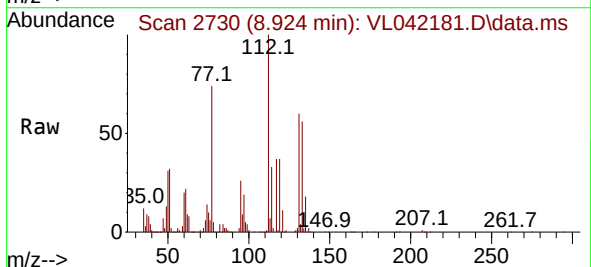
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

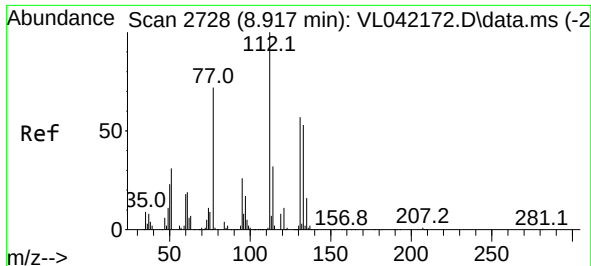
Tgt Ion:117 Resp: 452250  
Ion Ratio Lower Upper  
117 100  
82 68.9 55.8 83.6  
119 32.8 25.5 38.3



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.677 ppbv  
RT: 8.924 min Scan# 2730  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion:131 Resp: 240905  
Ion Ratio Lower Upper  
131 100  
133 93.5 76.6 114.8  
119 57.6 49.8 74.6

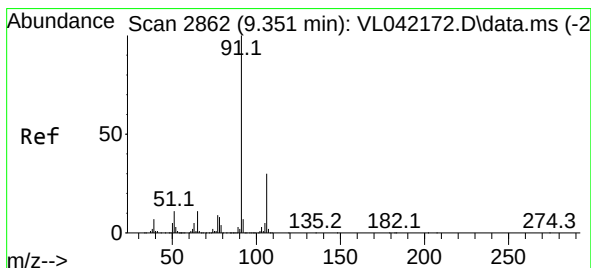
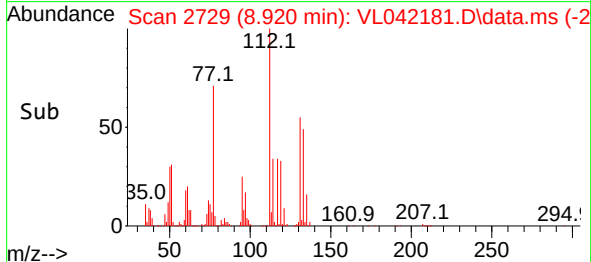
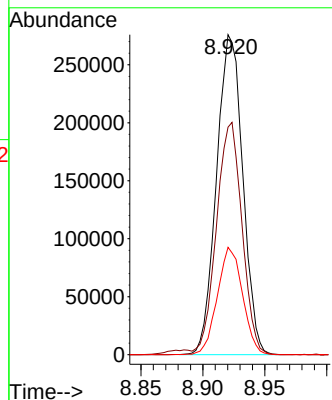
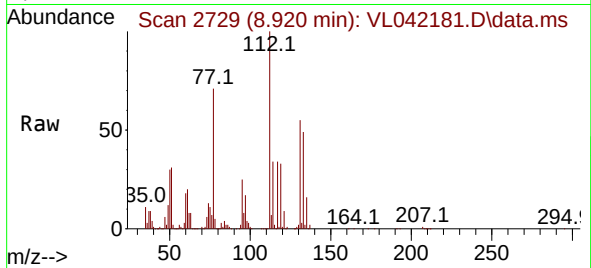




#57  
Chlorobenzene  
Concen: 9.507 ppbv  
RT: 8.920 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

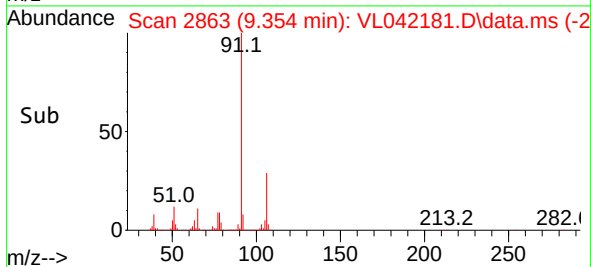
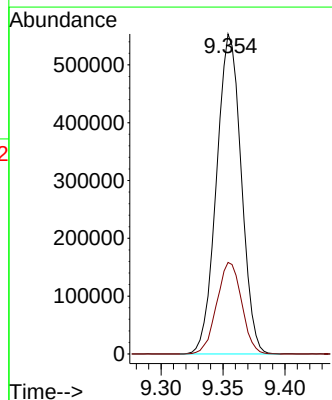
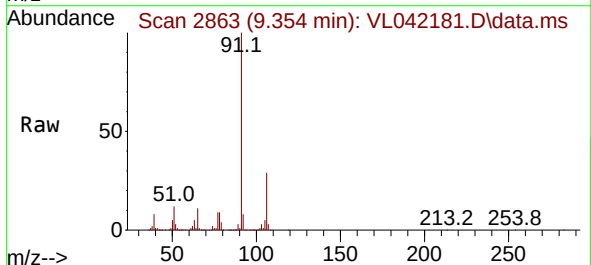
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

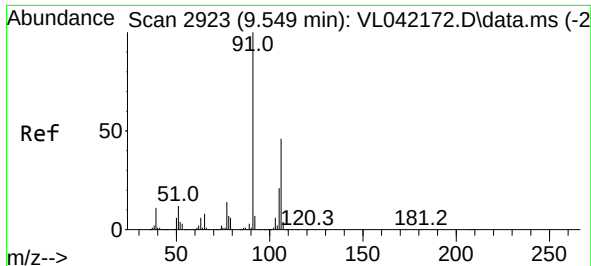
Tgt Ion:112 Resp: 407816  
Ion Ratio Lower Upper  
112 100  
77 71.1 58.2 87.2  
114 33.6 29.1 35.5



#58  
Ethyl Benzene  
Concen: 9.583 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 91 Resp: 769818  
Ion Ratio Lower Upper  
91 100  
106 28.6 24.2 36.2





#59

m/p-Xylene

Concen: 8.961 ppbv

RT: 9.551 min Scan# 2923

Delta R.T. 0.003 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_1

ClientSampleId :

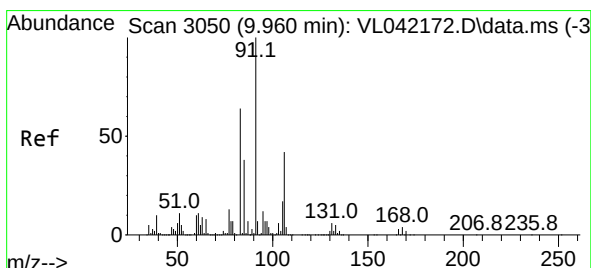
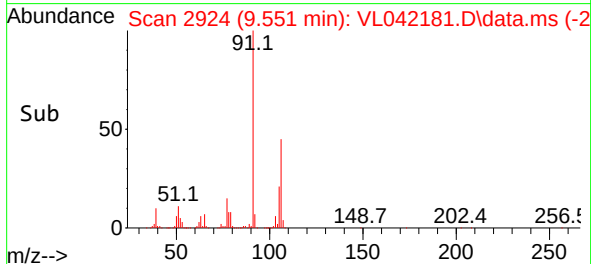
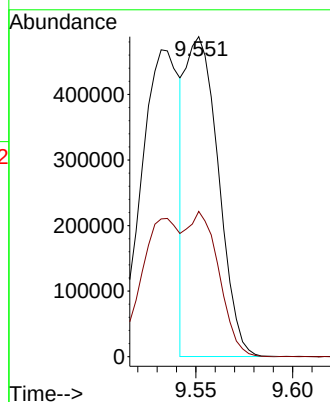
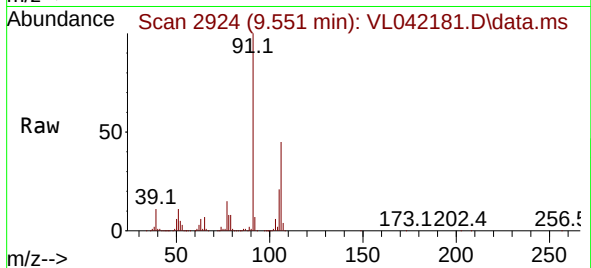
VL0327ABS01

Tgt Ion: 91 Resp: 574799

Ion Ratio Lower Upper

91 100

106 95.9 36.4 54.6#



#60

o-Xylene

Concen: 9.518 ppbv

RT: 9.962 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VL042181.D

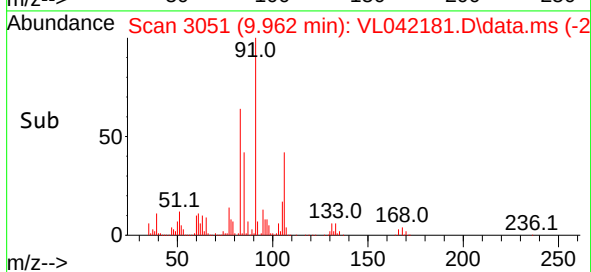
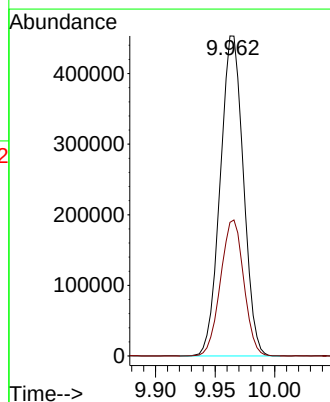
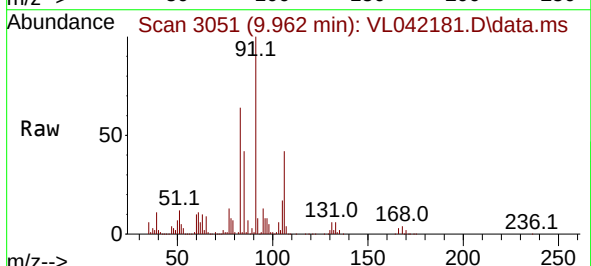
Acq: 27 Mar 2025 14:39

Tgt Ion: 91 Resp: 612011

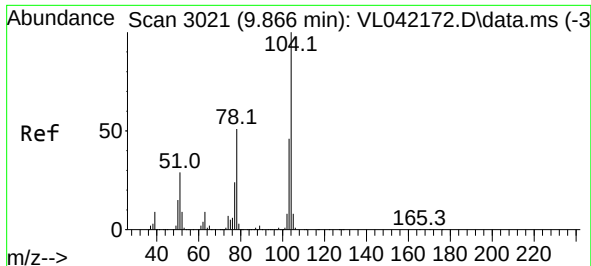
Ion Ratio Lower Upper

91 100

106 42.7 20.8 62.5







#61

Styrene

Concen: 9.639 ppbv

RT: 9.869 min Scan# 3021

Delta R.T. 0.003 min

Lab File: VL042181.D

Acq: 27 Mar 2025 14:39

Instrument :

MSVOA\_1

ClientSampleId :

VL0327ABS01

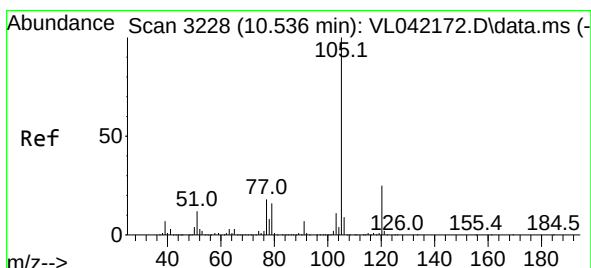
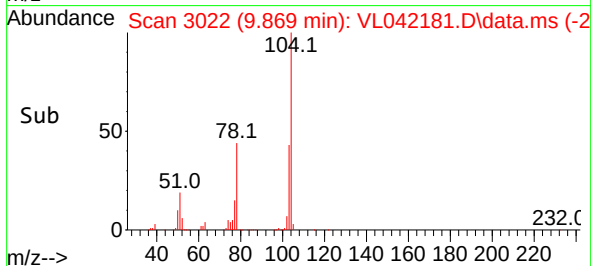
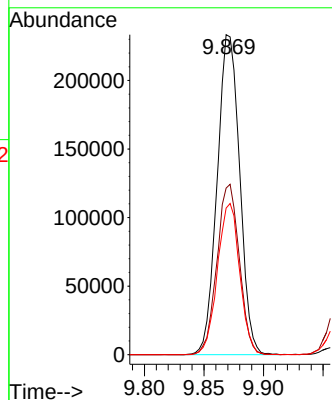
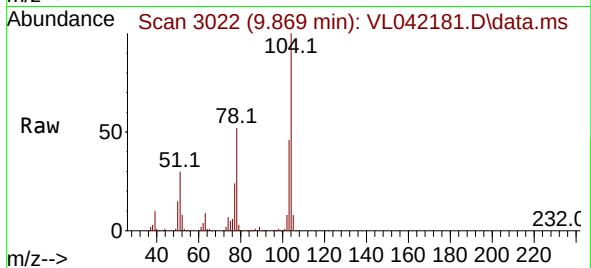
Tgt Ion:104 Resp: 306658

Ion Ratio Lower Upper

104 100

78 52.9 41.8 62.6

103 46.8 37.0 55.4



#62

Isopropylbenzene

Concen: 9.600 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.003 min

Lab File: VL042181.D

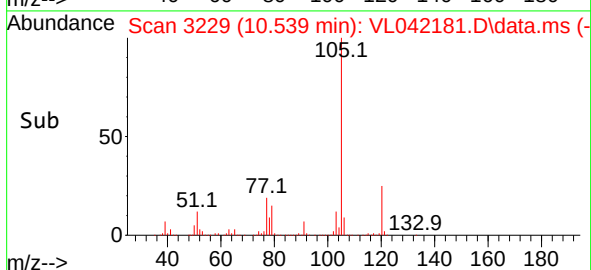
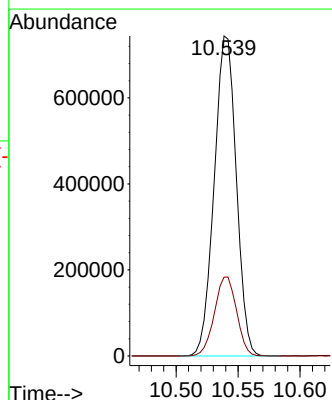
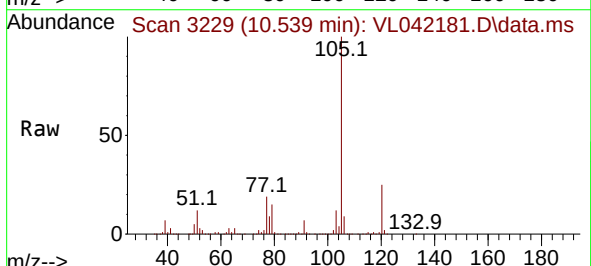
Acq: 27 Mar 2025 14:39

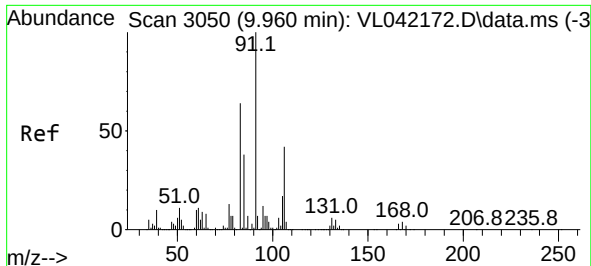
Tgt Ion:105 Resp: 923163

Ion Ratio Lower Upper

105 100

120 24.8 19.9 29.9

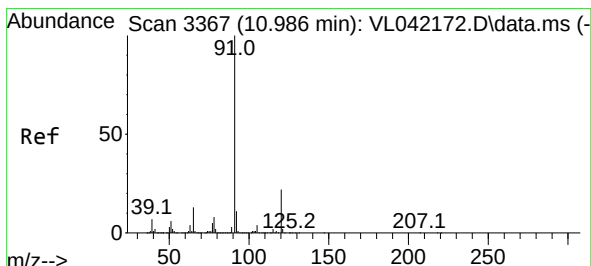
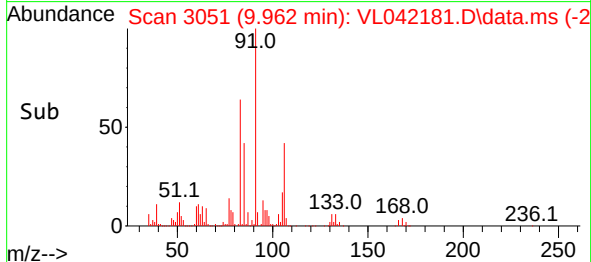
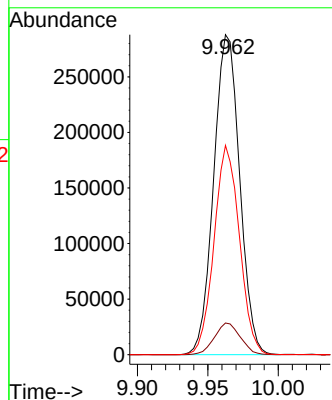
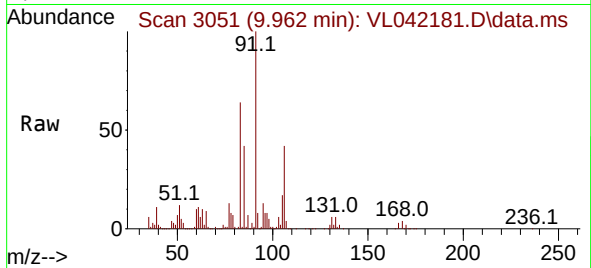




#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.483 ppbv  
RT: 9.962 min Scan# 3050  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

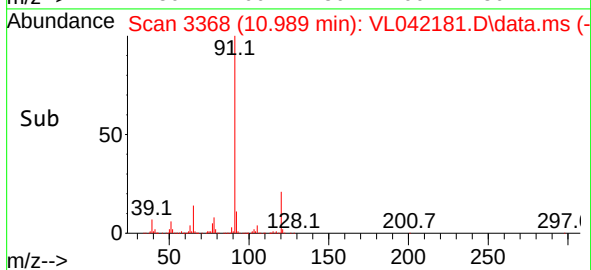
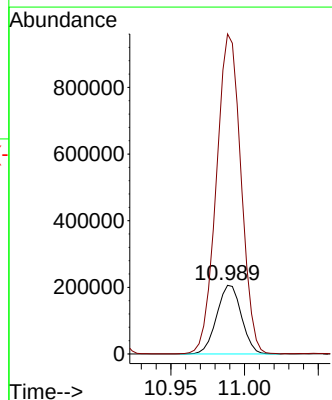
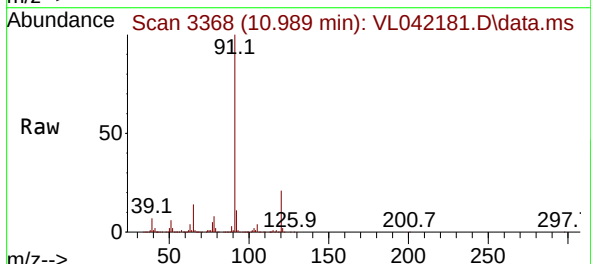
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

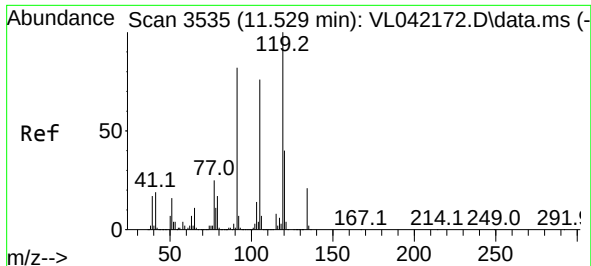
Tgt Ion: 83 Resp: 370486  
Ion Ratio Lower Upper  
83 100  
131 9.9 4.8 14.4  
85 63.9 32.5 97.5



#64  
n-propylbenzene  
Concen: 9.682 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 120 Resp: 239652  
Ion Ratio Lower Upper  
120 100  
91 465.1 376.9 565.3

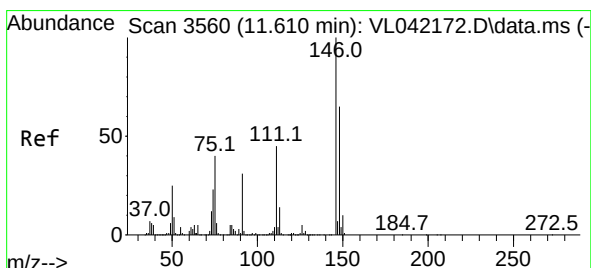
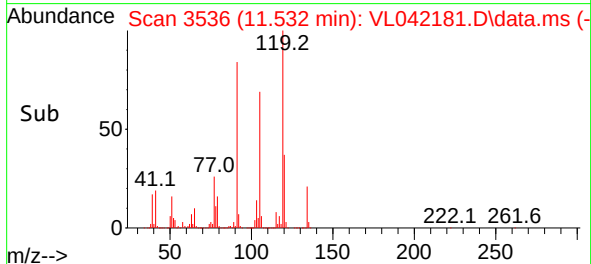
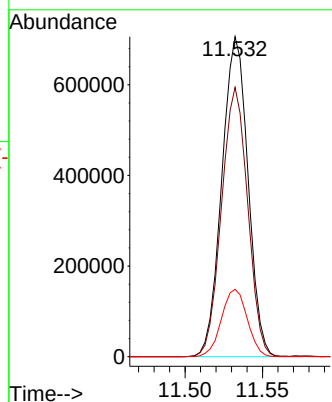
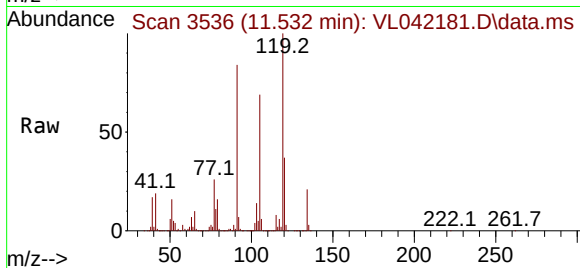




#65  
 tert-Butylbenzene  
 Concen: 9.315 ppbv  
 RT: 11.532 min Scan# 3536  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

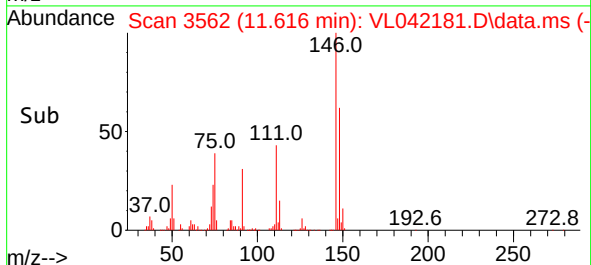
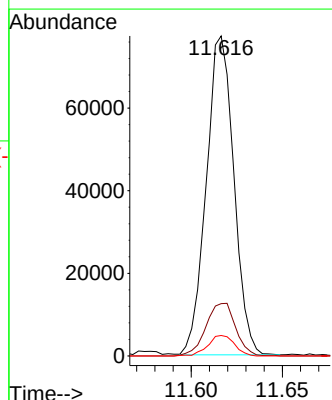
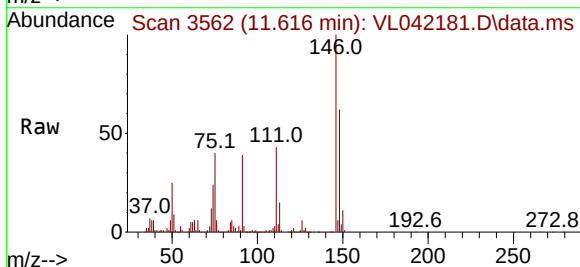
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0327ABS01

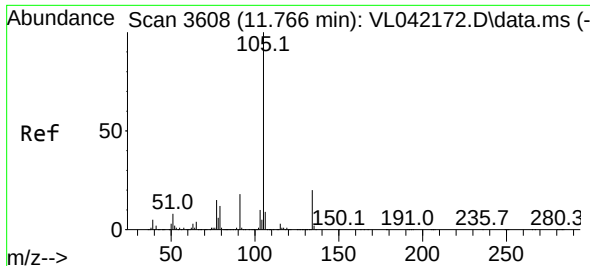
Tgt Ion:119 Resp: 828438  
 Ion Ratio Lower Upper  
 119 100  
 91 84.2 66.0 99.0  
 134 20.8 16.7 25.1



#66  
 Benzyl Chloride  
 Concen: 8.627 ppbv  
 RT: 11.616 min Scan# 3562  
 Delta R.T. 0.006 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Tgt Ion: 91 Resp: 81404  
 Ion Ratio Lower Upper  
 91 100  
 126 17.8 13.8 20.6  
 128 6.2 4.5 6.7

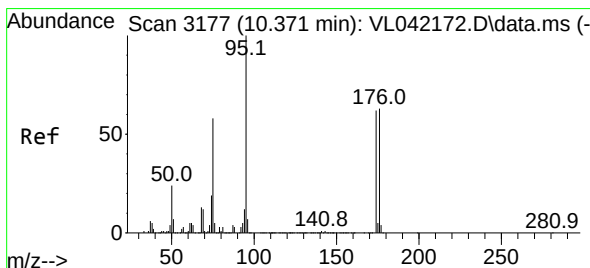
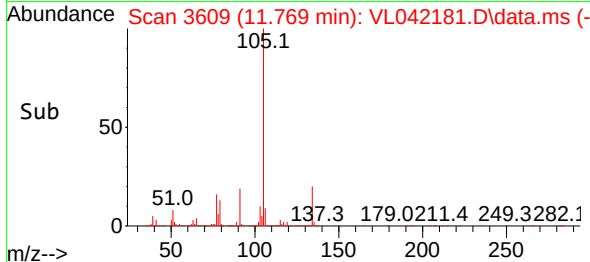
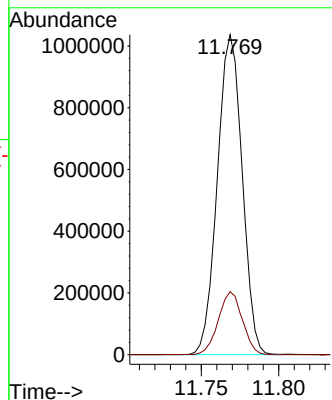
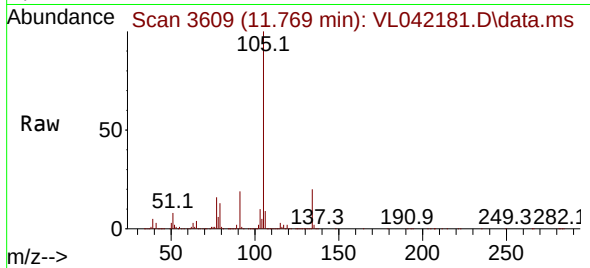




#67  
 sec-Butylbenzene  
 Concen: 9.347 ppbv  
 RT: 11.769 min Scan# 3179  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

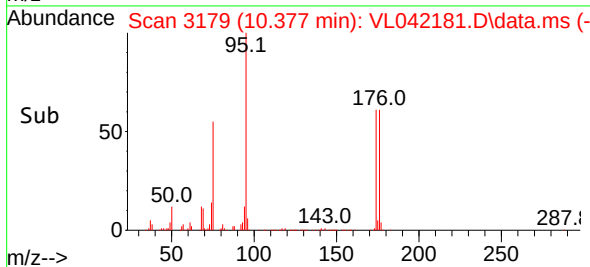
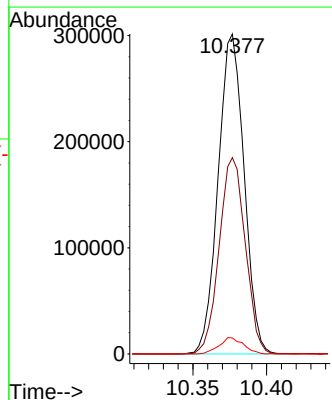
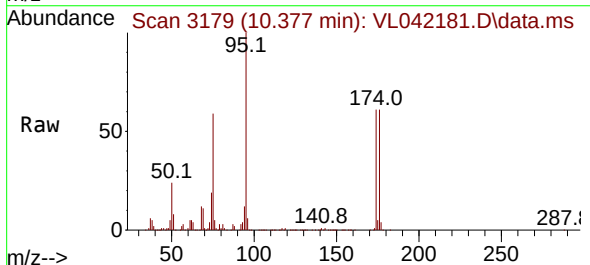
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0327ABS01

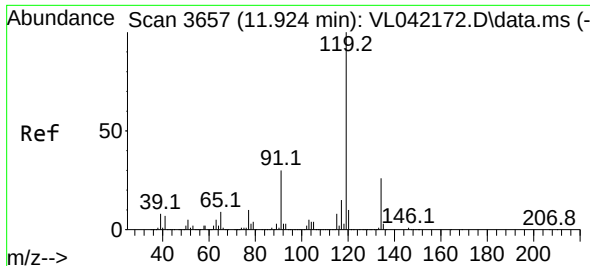
Tgt Ion:105 Resp: 1155378  
 Ion Ratio Lower Upper  
 105 100  
 134 19.1 15.5 23.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.934 ppbv  
 RT: 10.377 min Scan# 3179  
 Delta R.T. 0.006 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Tgt Ion: 95 Resp: 368941  
 Ion Ratio Lower Upper  
 95 100  
 174 61.7 50.6 76.0  
 175 4.8 3.8 5.6

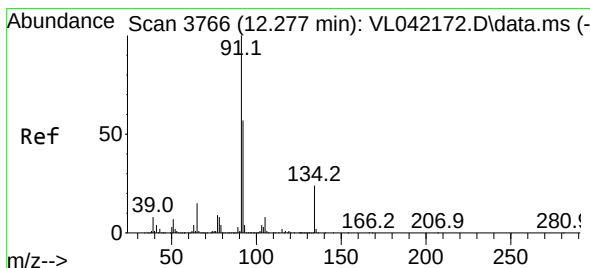
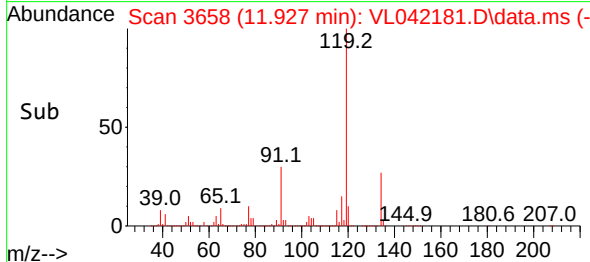
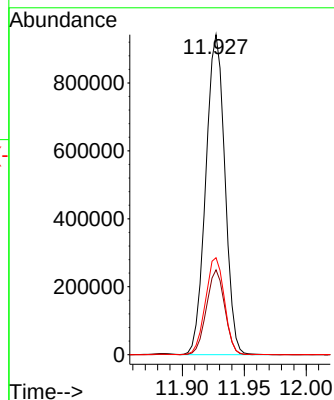
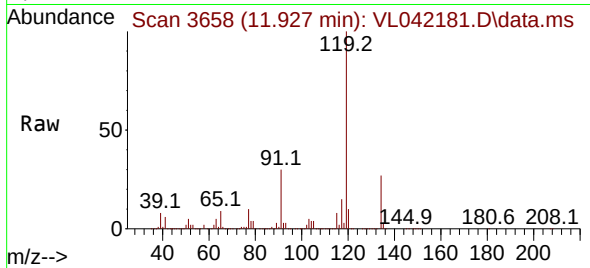




#69  
p-Isopropyltoluene  
Concen: 9.503 ppbv  
RT: 11.927 min Scan# 3658  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

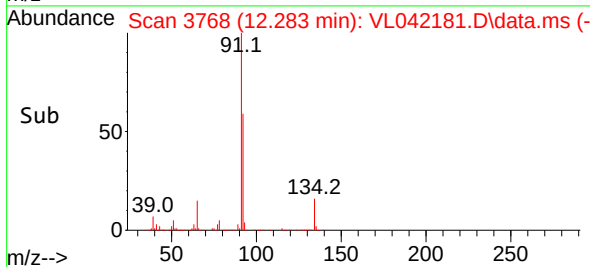
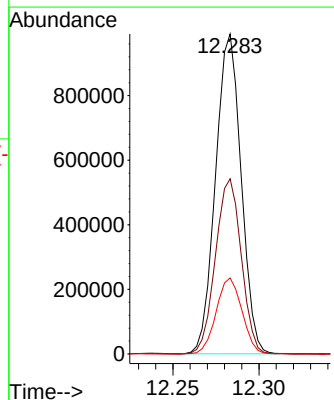
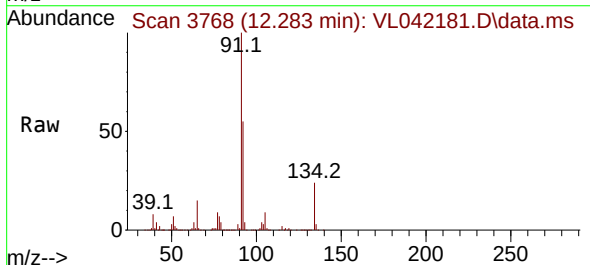
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

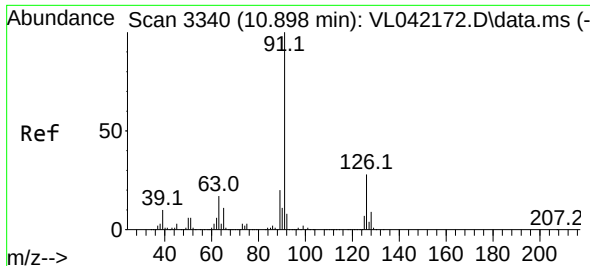
Tgt Ion:119 Resp: 1011573  
Ion Ratio Lower Upper  
119 100  
134 25.5 20.4 30.6  
91 30.3 23.7 35.5



#70  
n-Butylbenzene  
Concen: 9.397 ppbv  
RT: 12.283 min Scan# 3768  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 91 Resp: 1022935  
Ion Ratio Lower Upper  
91 100  
92 55.5 44.9 67.3  
134 24.0 19.2 28.8

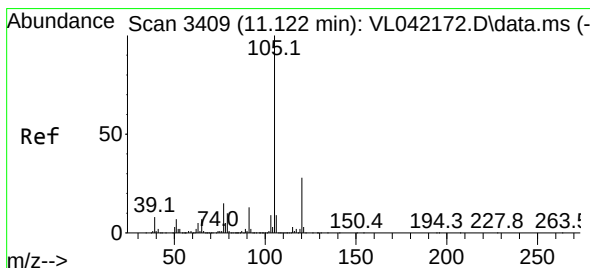
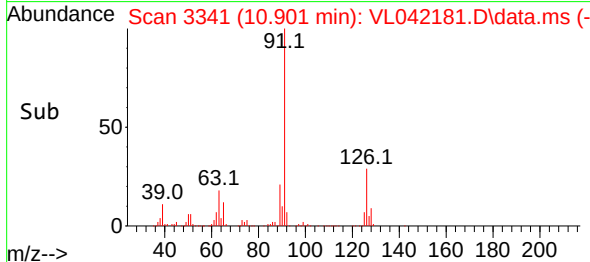
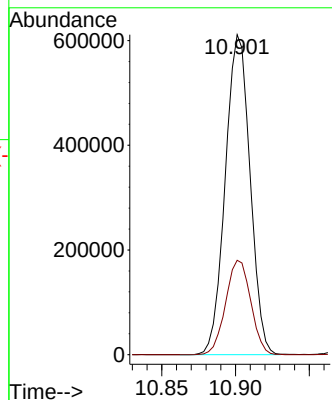
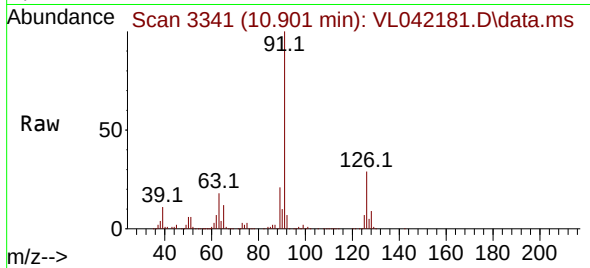




#71  
2-Chlorotoluene  
Concen: 9.562 ppbv  
RT: 10.901 min Scan# 311  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

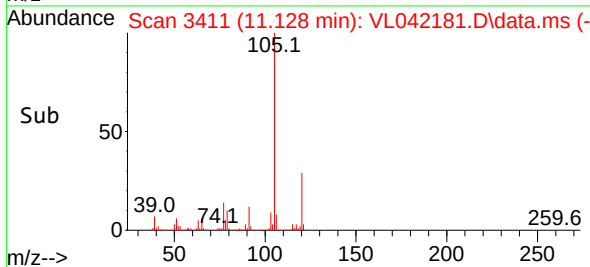
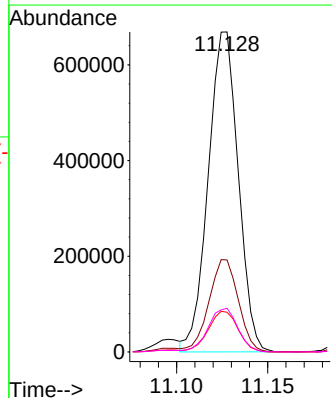
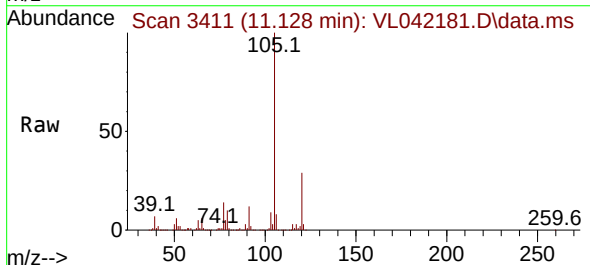
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0327ABS01

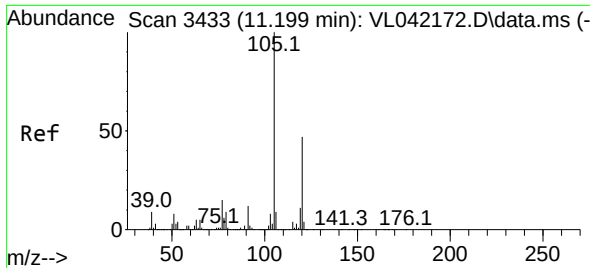
Tgt Ion: 91 Resp: 713648  
Ion Ratio Lower Upper  
91 100  
126 29.8 11.6 46.4



#72  
4-Ethyltoluene  
Concen: 9.576 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion: 105 Resp: 766720  
Ion Ratio Lower Upper  
105 100  
120 29.4 23.4 35.0  
91 13.1 10.3 15.5  
77 14.0 11.4 17.2

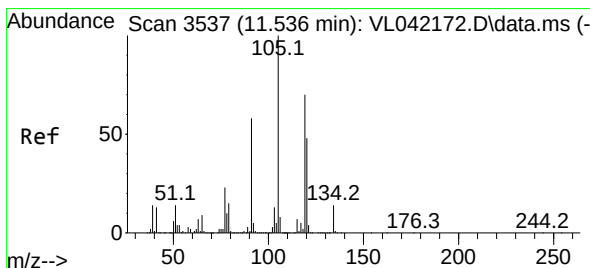
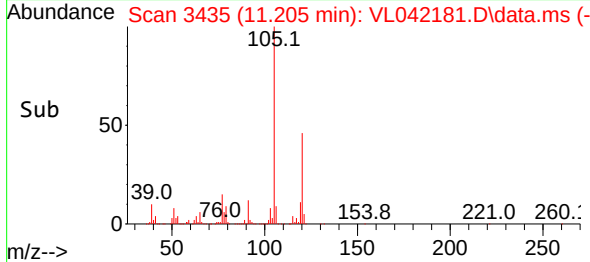
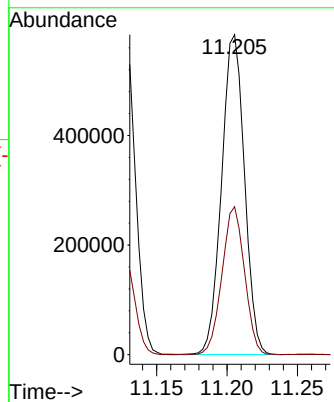
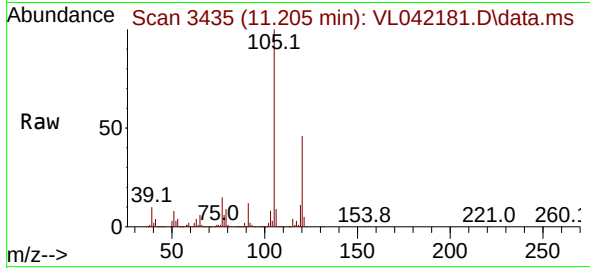




#73  
 1,3,5-Trimethylbenzene  
 Concen: 9.451 ppbv  
 RT: 11.205 min Scan# 3433  
 Delta R.T. 0.006 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

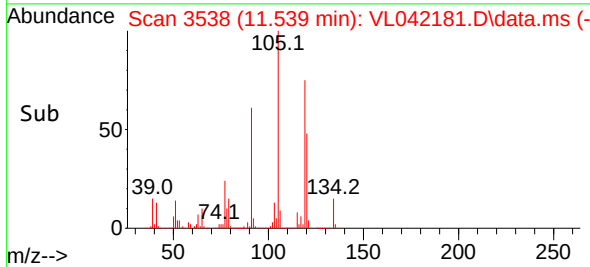
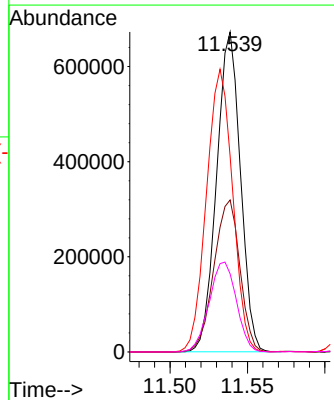
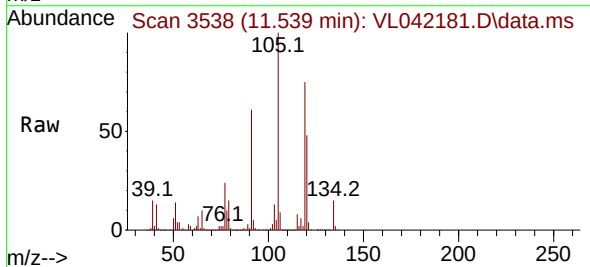
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0327ABS01

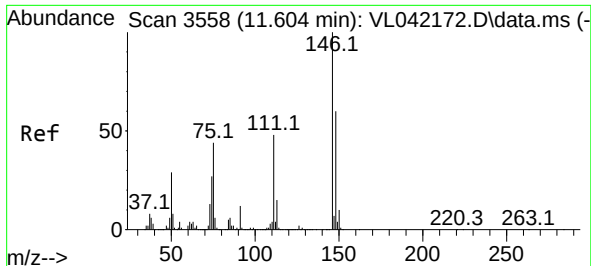
Tgt Ion:105 Resp: 660905  
 Ion Ratio Lower Upper  
 105 100  
 120 46.3 37.4 56.0



#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.921 ppbv  
 RT: 11.539 min Scan# 3538  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Tgt Ion:105 Resp: 718683  
 Ion Ratio Lower Upper  
 105 100  
 120 47.5 38.6 58.0  
 91 61.0 46.2 69.2  
 77 24.3 18.6 27.8

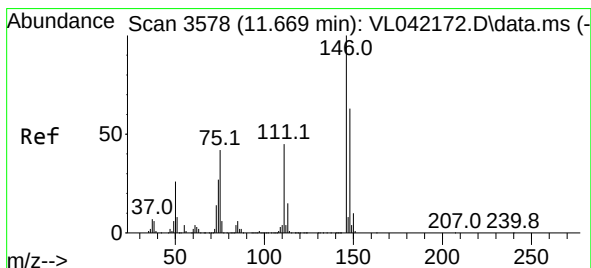
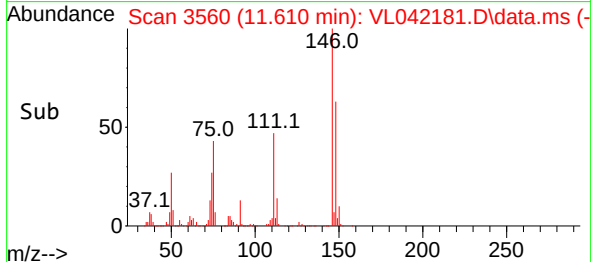
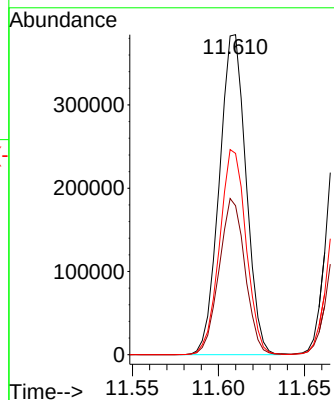
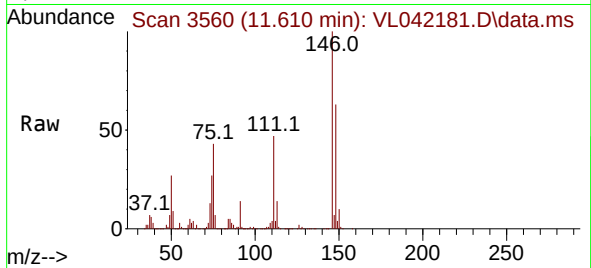




#75  
1,3-Dichlorobenzene  
Concen: 9.401 ppbv  
RT: 11.610 min Scan# 3558  
Delta R.T. 0.006 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

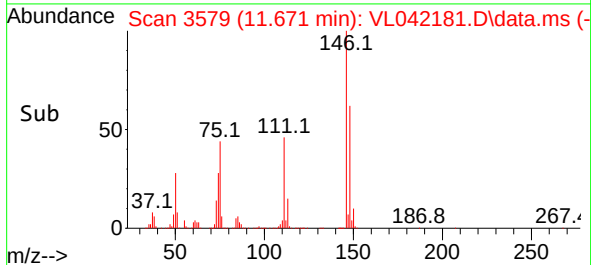
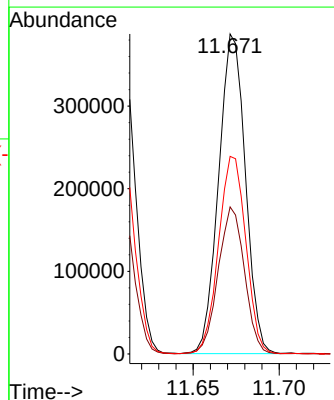
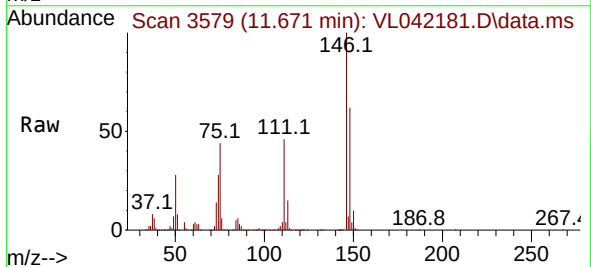
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

Tgt Ion:146 Resp: 415378  
Ion Ratio Lower Upper  
146 100  
111 47.4 23.8 71.2  
148 63.6 31.9 95.9

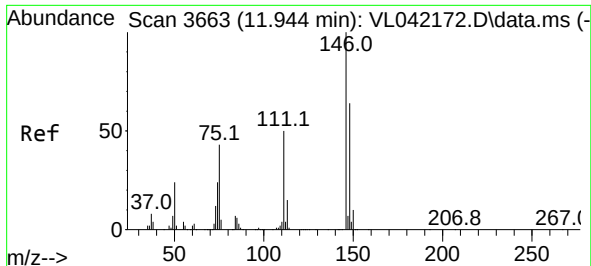


#76  
1,4-Dichlorobenzene  
Concen: 9.521 ppbv  
RT: 11.671 min Scan# 3579  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion:146 Resp: 418670  
Ion Ratio Lower Upper  
146 100  
111 45.4 23.0 69.0  
148 63.4 31.9 95.7



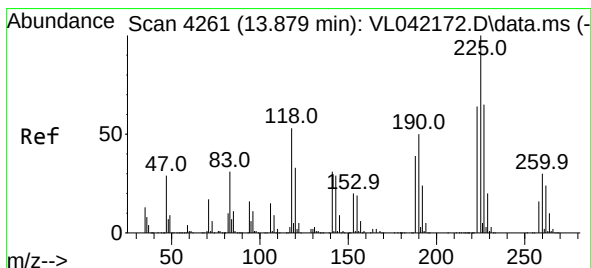
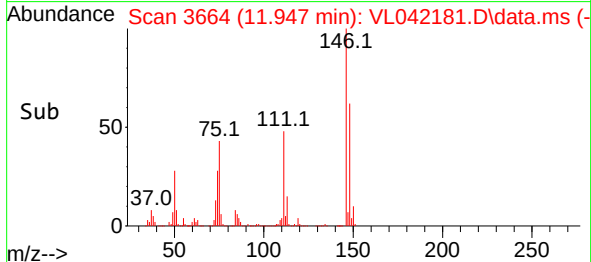
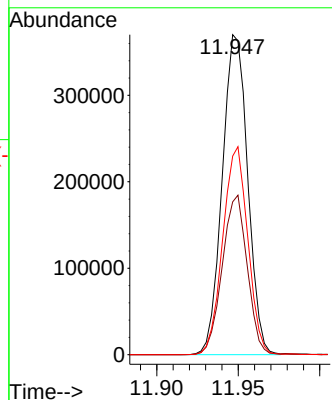
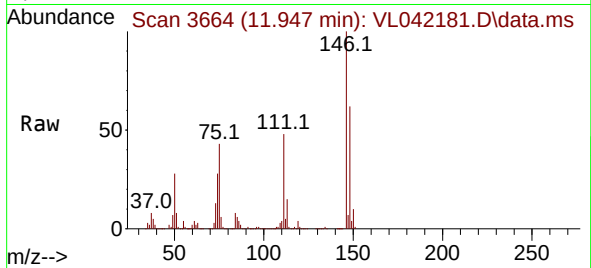




#77  
1,2-Dichlorobenzene  
Concen: 9.336 ppbv  
RT: 11.947 min Scan# 3664  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

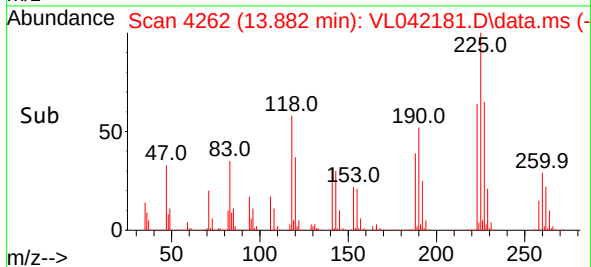
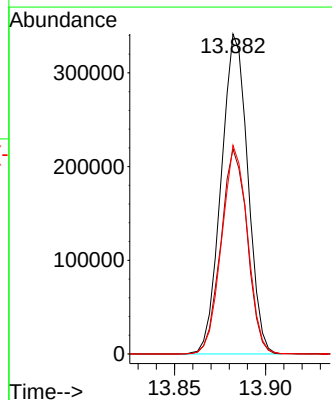
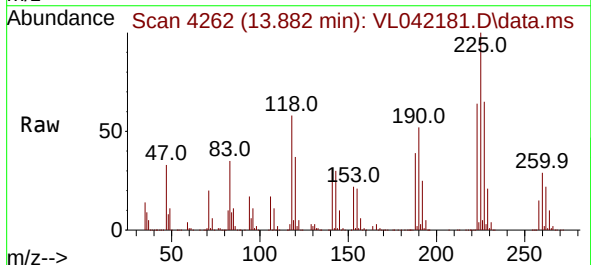
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

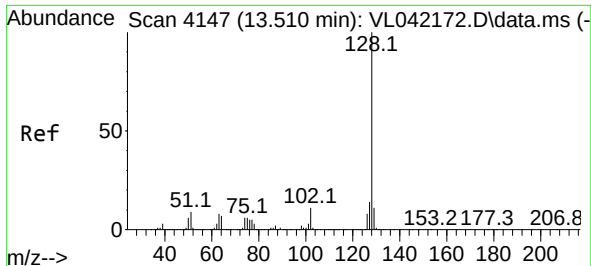
Tgt Ion:146 Resp: 401634  
Ion Ratio Lower Upper  
146 100  
111 49.0 24.8 74.3  
148 64.0 31.6 94.8



#78  
Hexachloro-1,3-Butadiene  
Concen: 7.914 ppbv  
RT: 13.882 min Scan# 4262  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

Tgt Ion:225 Resp: 346566  
Ion Ratio Lower Upper  
225 100  
223 63.5 50.6 76.0  
227 63.5 51.2 76.8

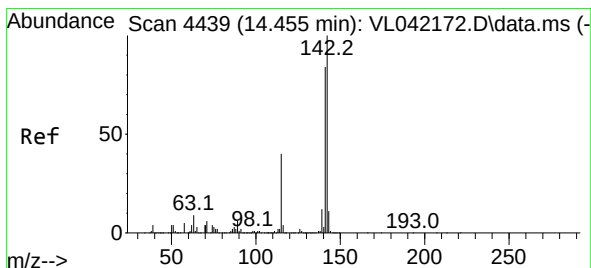
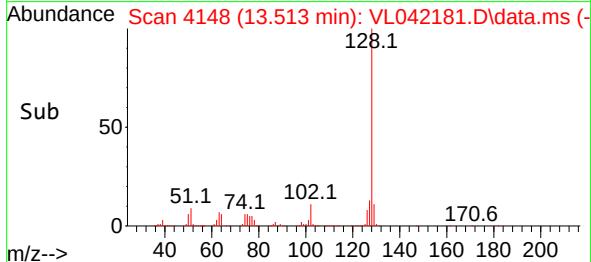
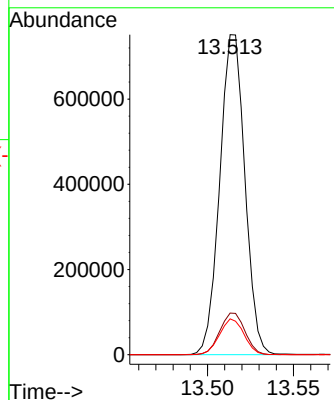
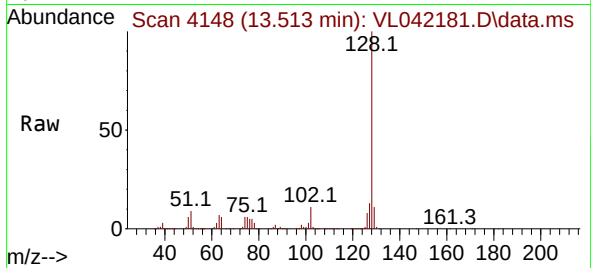




#79  
Naphthalene  
Concen: 8.659 ppbv  
RT: 13.513 min Scan# 4147  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

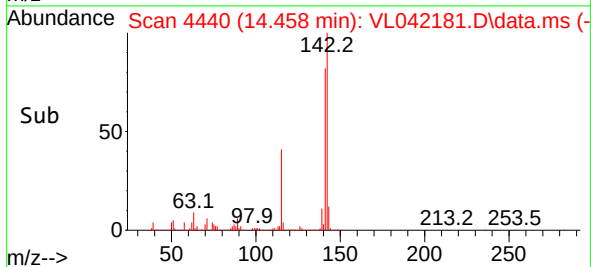
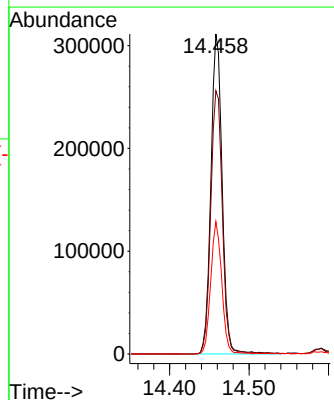
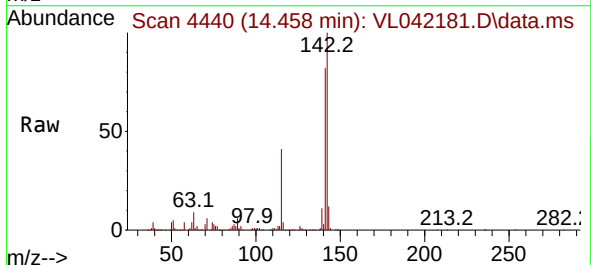
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0327ABS01

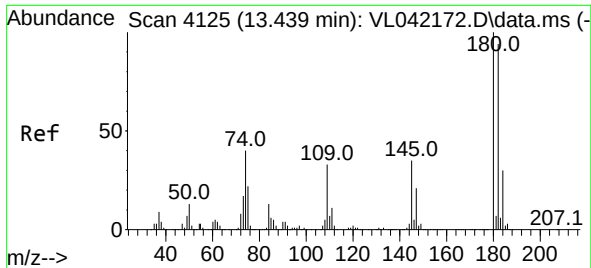
Tgt Ion:128 Resp: 762976  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.8 16.2  
129 11.2 9.0 13.4



#80  
Naphthalene,2-methyl-  
Concen: 7.134 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. 0.003 min  
Lab File: VL042181.D  
Acq: 27 Mar 2025 14:39

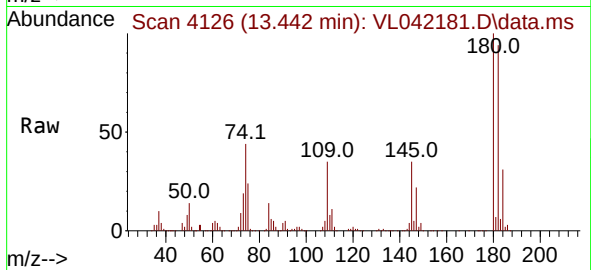
Tgt Ion:142 Resp: 308264  
Ion Ratio Lower Upper  
142 100  
141 84.9 66.3 99.5  
115 40.7 31.6 47.4



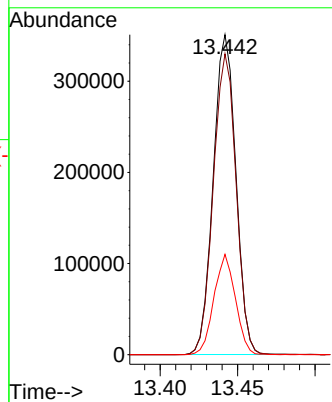
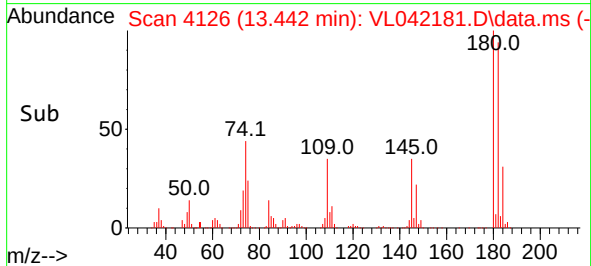


#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.764 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. 0.003 min  
 Lab File: VL042181.D  
 Acq: 27 Mar 2025 14:39

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0327ABS01



Tgt Ion:180 Resp: 356193  
 Ion Ratio Lower Upper  
 180 100  
 182 95.1 75.1 112.7  
 184 29.8 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042185.D  
 Acq On : 27 Mar 2025 18:22  
 Operator : SY/MD  
 Sample : Q1669-01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-3-3262025

Quant Time: Mar 28 02:14:56 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

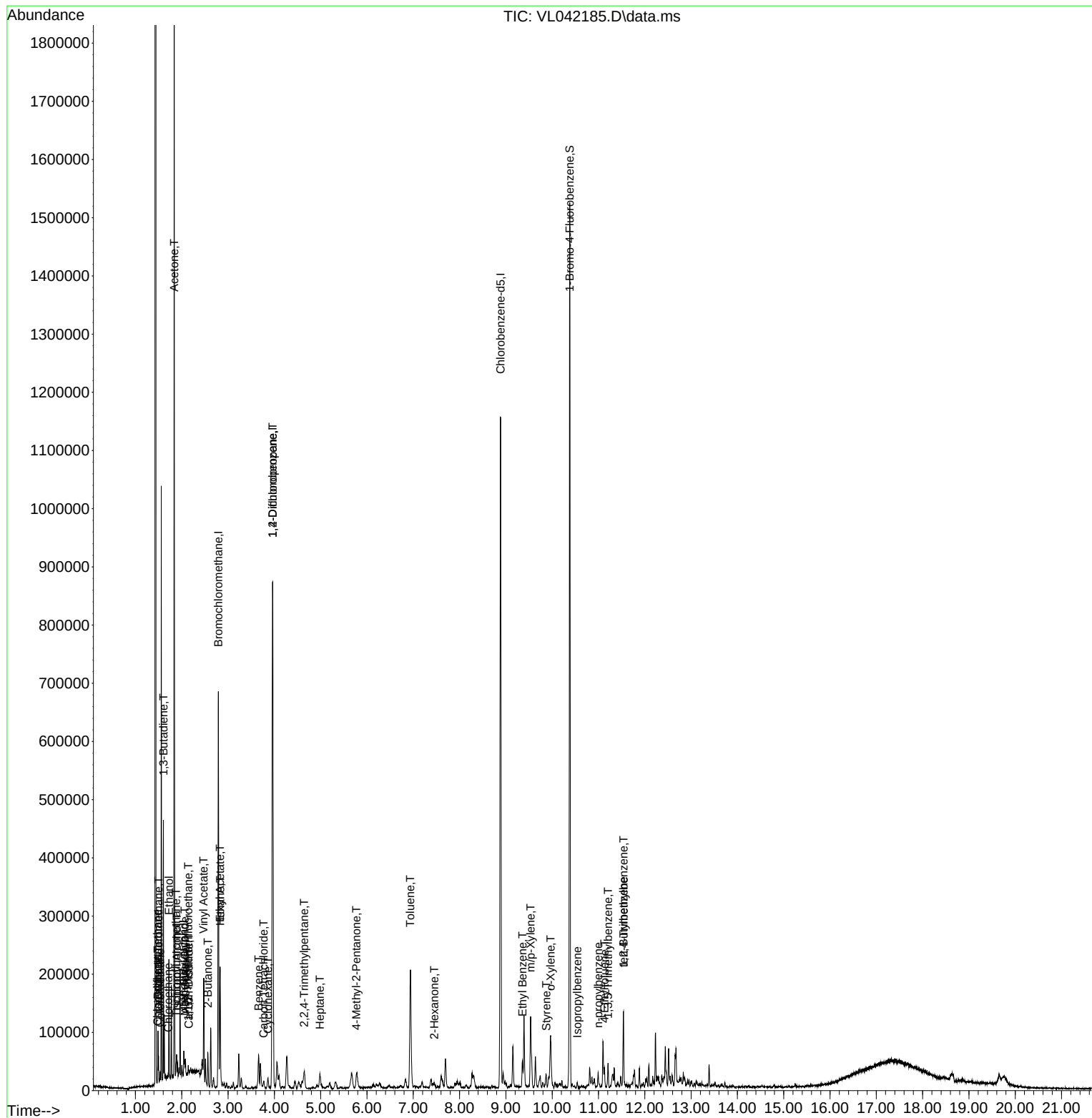
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 2.791  | 49    | 182164   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene        | 3.962  | 114   | 537249   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5           | 8.885  | 117   | 488802   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene    | 10.377 | 95    | 399253   | 9.946    | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 65 - 135 | Recovery | =      | 99.500%  |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane     | 1.499  | 85    | 10784    | 0.401    | ppbv   | 94       |
| 3) Chlorodifluoromethane       | 1.476  | 51    | 9810     | 0.357    | ppbv # | 90       |
| 4) Chloromethane               | 1.532  | 50    | 4102     | 0.373    | ppbv   | 97       |
| 7) Chloroethane                | 1.706  | 64    | 630      | 0.143    | ppbv # | 72       |
| 9) Propene                     | 1.483  | 41    | 9886     | 0.785    | ppbv   | 90       |
| 10) Heptane                    | 4.982  | 43    | 4978     | 0.149    | ppbv # | 12       |
| 11) Trichlorofluoromethane     | 1.881  | 101   | 5615     | 0.215    | ppbv   | 98       |
| 12) 1,1,2-Trichlorotri fluo... | 2.140  | 101   | 1646     | 0.077    | ppbv # | 80       |
| 13) Ethanol                    | 1.722  | 45    | 66284    | 55.675   | ppbv   | 87       |
| 15) Acetone                    | 1.836  | 43    | 884107   | 34.703   | ppbv   | 98       |
| 16) 1,3-Butadiene              | 1.603  | 39    | 39589    | 3.182    | ppbv # | 22       |
| 17) tert-Butyl alcohol         | 2.043  | 59    | 15704    | 0.495    | ppbv # | 88       |
| 19) Isopropyl Alcohol          | 1.891  | 45    | 15772    | 1.097    | ppbv # | 1        |
| 20) Methylene Chloride         | 2.062  | 84    | 3433     | 0.362    | ppbv # | 83       |
| 21) Allyl Chloride             | 2.079  | 41    | 1674     | 0.093    | ppbv # | 7        |
| 23) Vinyl Acetate              | 2.473  | 43    | 54408    | 4.934    | ppbv # | 52       |
| 25) Ethyl Acetate              | 2.826  | 43    | 37903    | 0.573    | ppbv # | 87       |
| 26) Hexane                     | 2.829  | 57    | 49383    | 1.934    | ppbv # | 35       |
| 27) Carbon Disulfide           | 2.153  | 76    | 927      | 0.034    | ppbv # | 1        |
| 30) Cyclohexane                | 3.862  | 84    | 1978     | 0.089    | ppbv # | 1        |
| 34) 2-Butanone                 | 2.561  | 43    | 35584    | 0.913    | ppbv   | 98       |
| 35) Carbon Tetrachloride       | 3.765  | 117   | 2627     | 0.063    | ppbv   | 91       |
| 36) Benzene                    | 3.661  | 78    | 34017    | 0.639    | ppbv # | 92       |
| 39) 1,2-Dichloropropane        | 3.962  | 63    | 138666   | 7.149    | ppbv # | 23       |
| 44) 2,2,4-Trimethylpentane     | 4.642  | 57    | 13063    | 0.145    | ppbv # | 1        |
| 50) 4-Methyl-2-Pentanone       | 5.772  | 43    | 9108     | 0.148    | ppbv # | 39       |
| 51) 2-Hexanone                 | 7.455  | 43    | 2476     | 0.049    | ppbv # | 84       |
| 53) Toluene                    | 6.937  | 91    | 146384   | 2.319    | ppbv   | 99       |
| 58) Ethyl Benzene              | 9.358  | 91    | 27191    | 0.313    | ppbv   | 95       |
| 59) m/p-Xylene                 | 9.533  | 91    | 61979    | 0.894    | ppbv # | 85       |
| 60) o-Xylene                   | 9.966  | 91    | 35115    | 0.505    | ppbv   | 99       |
| 61) Styrene                    | 9.872  | 104   | 4273     | 0.124    | ppbv   | 91       |
| 62) Isopropylbenzene           | 10.542 | 105   | 3524     | 0.034    | ppbv   | 94       |
| 64) n-propylbenzene            | 10.992 | 120   | 2677     | 0.100    | ppbv   | 96       |
| 65) tert-Butylbenzene          | 11.539 | 119   | 5380     | 0.056    | ppbv # | 71       |
| 72) 4-Ethyltoluene             | 11.128 | 105   | 11701    | 0.135    | ppbv # | 55       |
| 73) 1,3,5-Trimethylbenzene     | 11.206 | 105   | 12679    | 0.168    | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene     | 11.539 | 105   | 44446    | 0.510    | ppbv # | 64       |

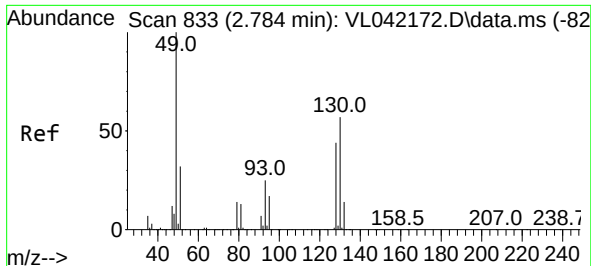
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042185.D  
Acq On : 27 Mar 2025 18:22  
Operator : SY/MD  
Sample : Q1669-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

Quant Time: Mar 28 02:14:56 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

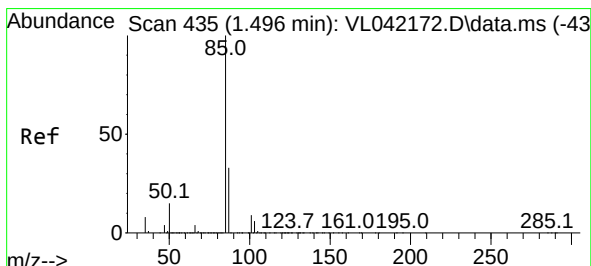
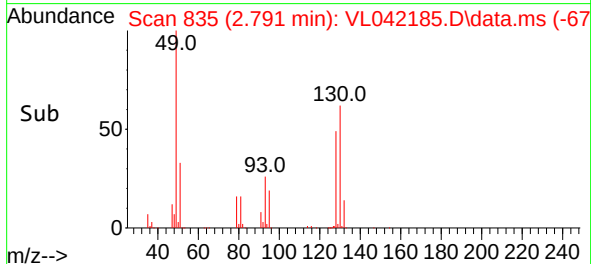
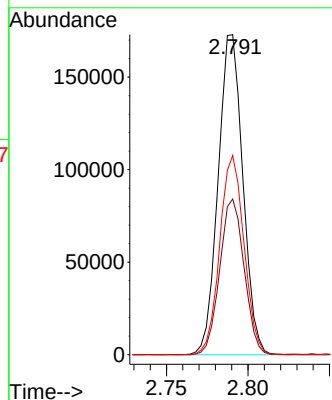
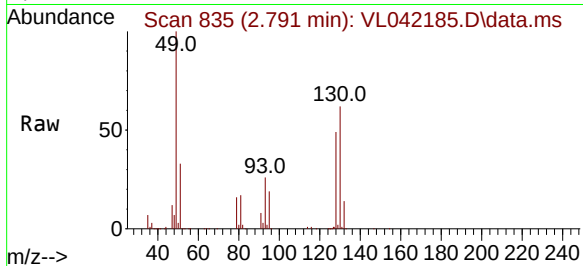




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.791 min Scan# 81  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

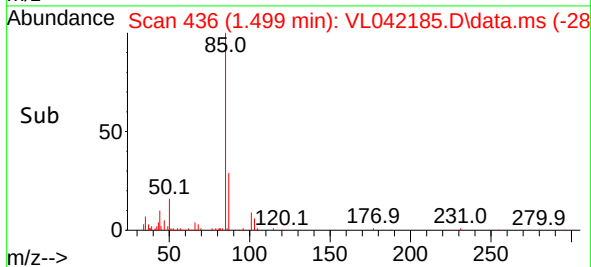
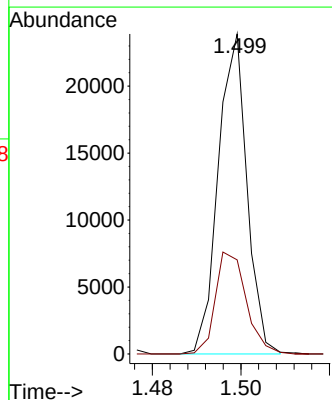
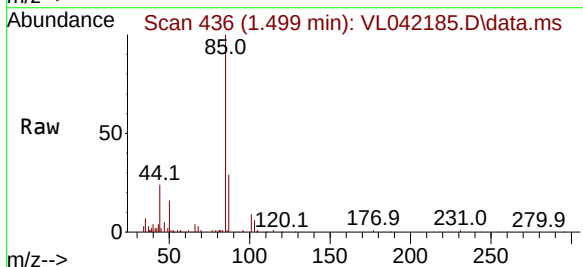
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

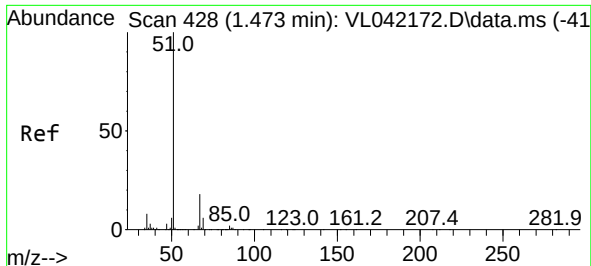
Tgt Ion: 49 Resp: 182164  
Ion Ratio Lower Upper  
49 100  
128 47.9 22.9 68.5  
130 61.0 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 0.401 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.003 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 85 Resp: 10784  
Ion Ratio Lower Upper  
85 100  
87 29.4 26.1 39.1

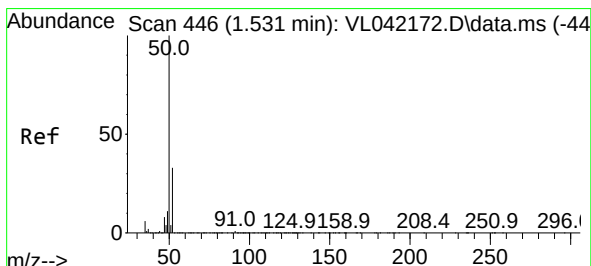
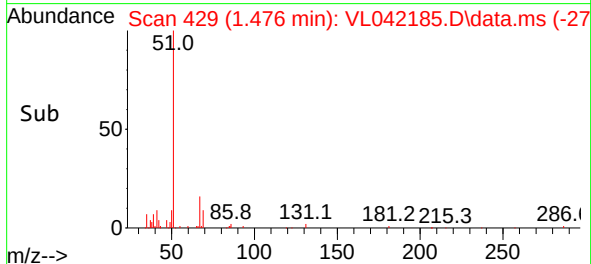
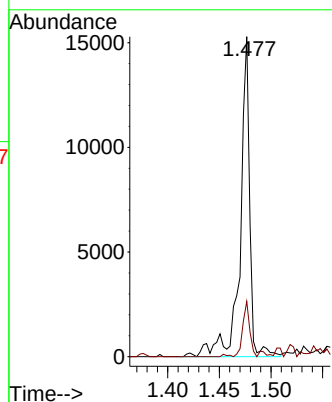
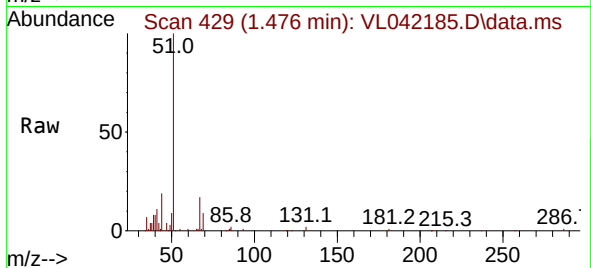




#3  
Chlorodifluoromethane  
Concen: 0.357 ppbv  
RT: 1.476 min Scan# 428  
Delta R.T. 0.003 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

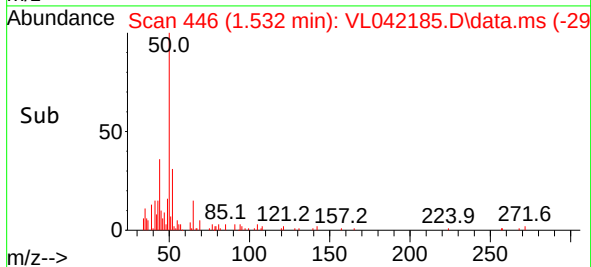
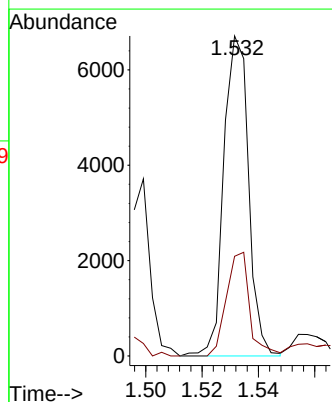
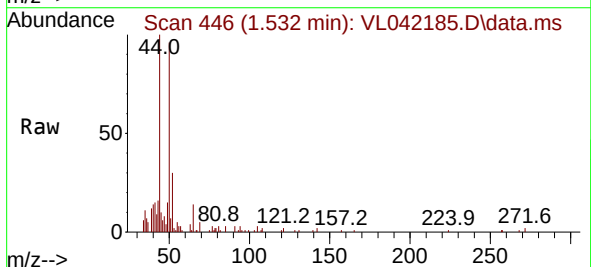
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

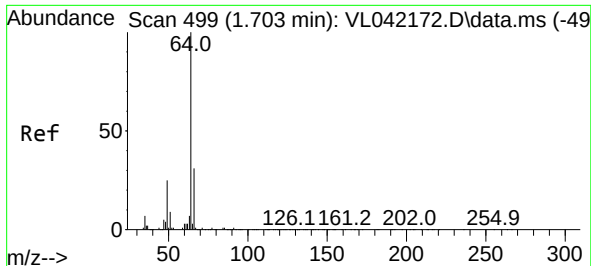
Tgt Ion: 51 Resp: 9810  
Ion Ratio Lower Upper  
51 100  
67 14.2 15.0 22.6#



#4  
Chloromethane  
Concen: 0.373 ppbv  
RT: 1.532 min Scan# 446  
Delta R.T. 0.000 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 50 Resp: 4102  
Ion Ratio Lower Upper  
50 100  
52 31.2 26.1 39.1

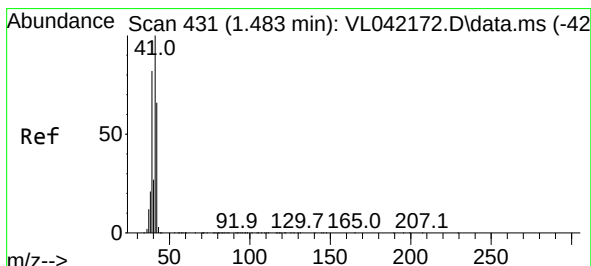
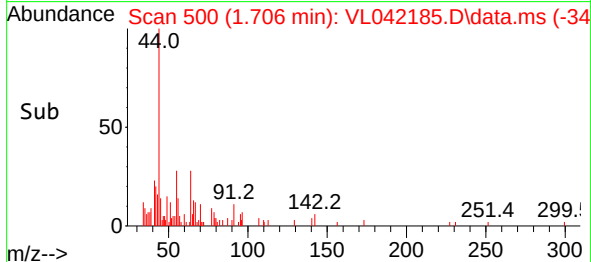
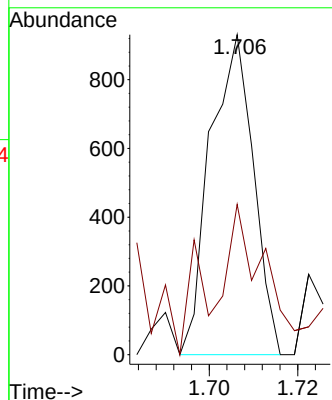
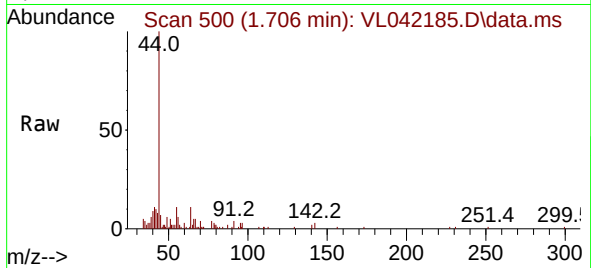




#7  
Chloroethane  
Concen: 0.143 ppbv  
RT: 1.706 min Scan# 50  
Delta R.T. 0.003 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

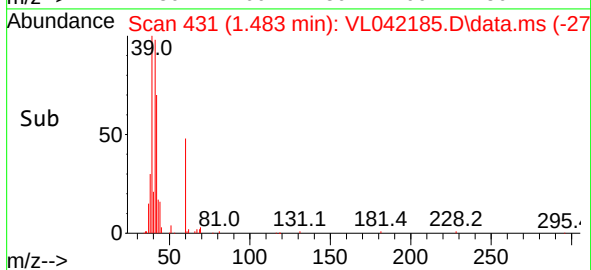
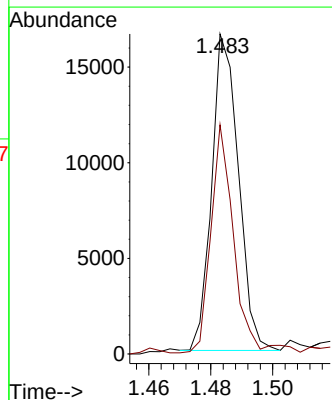
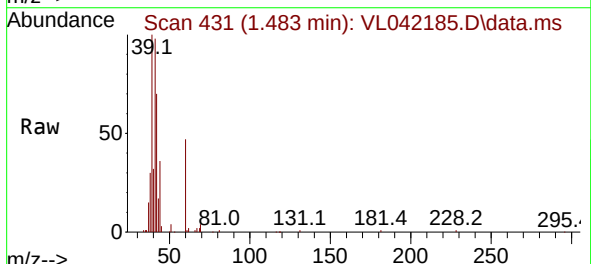
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

Tgt Ion: 64 Resp: 630  
Ion Ratio Lower Upper  
64 100  
66 46.9 25.2 37.8#

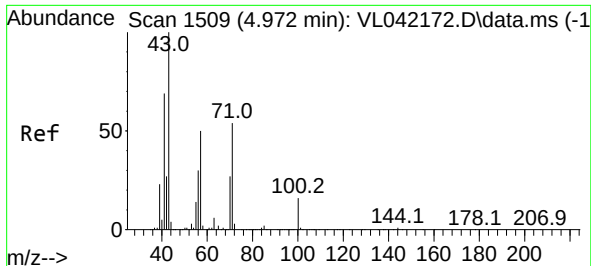


#9  
Propene  
Concen: 0.785 ppbv  
RT: 1.483 min Scan# 431  
Delta R.T. 0.000 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 41 Resp: 9886  
Ion Ratio Lower Upper  
41 100  
42 61.2 55.4 83.2



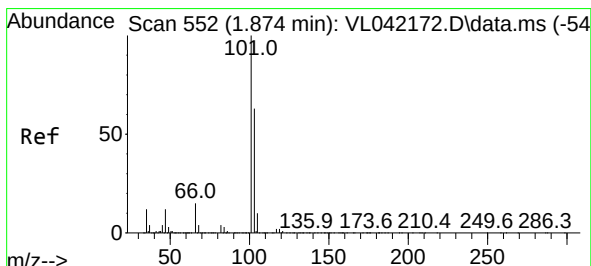
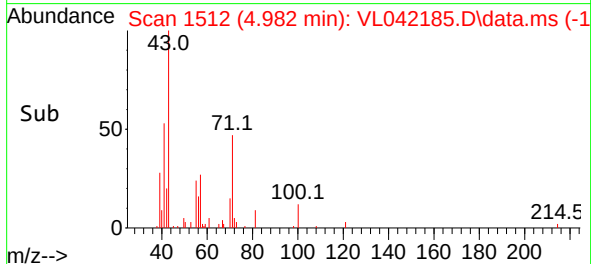
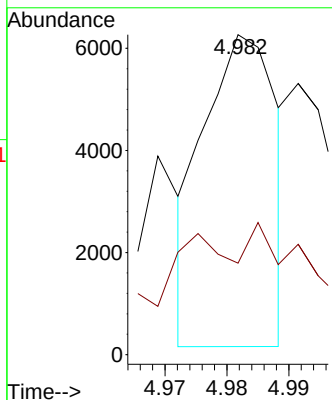
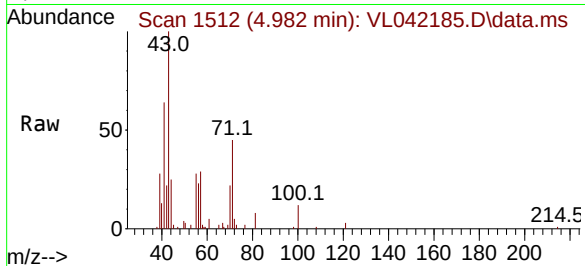




#10  
Heptane  
Concen: 0.149 ppbv  
RT: 4.982 min Scan# 11  
Delta R.T. 0.010 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

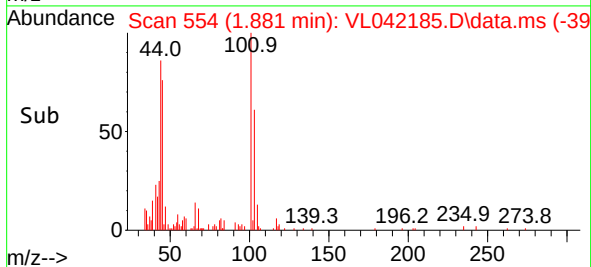
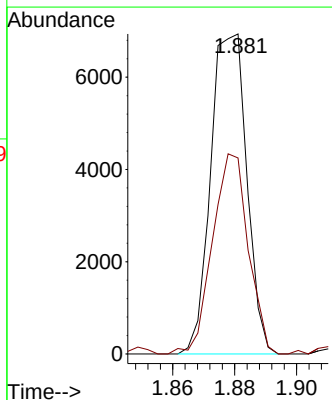
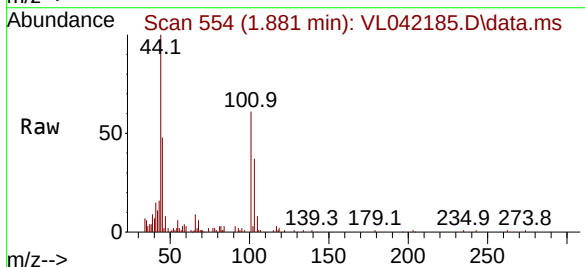
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

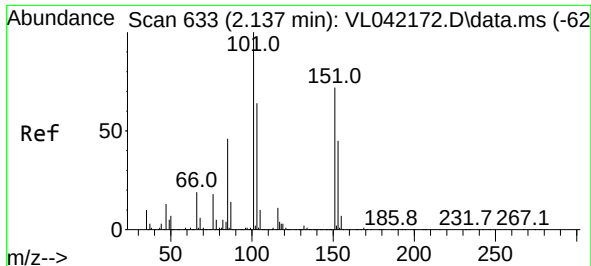
Tgt Ion: 43 Resp: 4978  
Ion Ratio Lower Upper  
43 100  
57 109.6 39.4 59.2#



#11  
Trichlorofluoromethane  
Concen: 0.215 ppbv  
RT: 1.881 min Scan# 554  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion:101 Resp: 5615  
Ion Ratio Lower Upper  
101 100  
103 61.3 50.2 75.2





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.077 ppbv

RT: 2.140 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042185.D

Acq: 27 Mar 2025 18:22

Instrument :

MSVOA\_1

ClientSampleId :

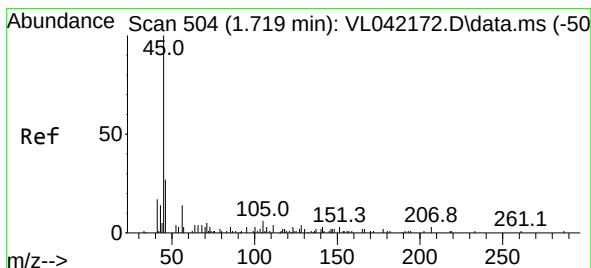
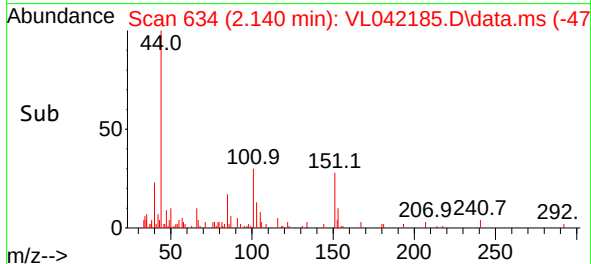
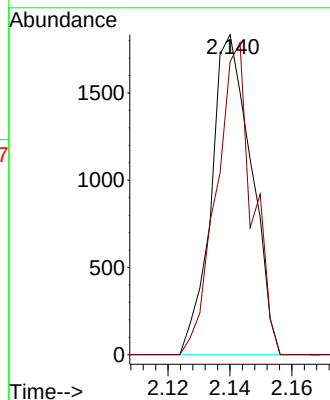
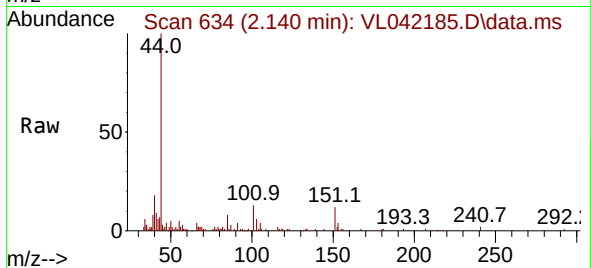
IA-B9-3-3262025

Tgt Ion:101 Resp: 1646

Ion Ratio Lower Upper

101 100

151 88.0 57.1 85.7#



#13

Ethanol

Concen: 55.675 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042185.D

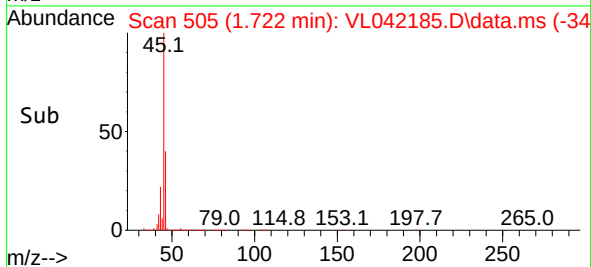
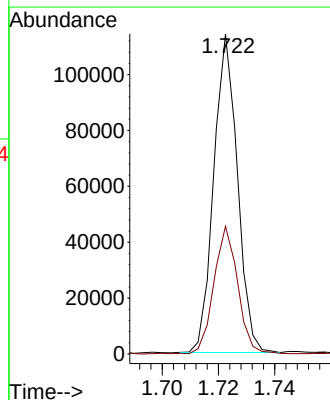
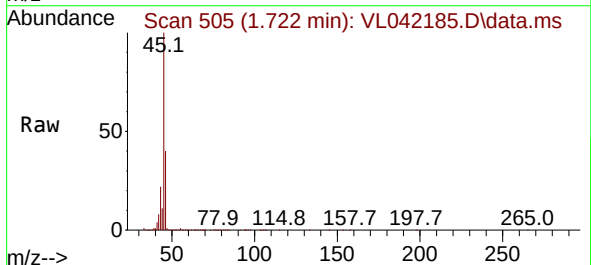
Acq: 27 Mar 2025 18:22

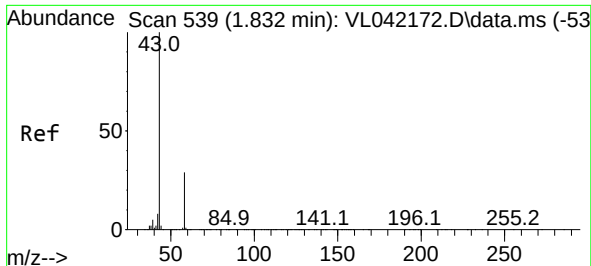
Tgt Ion: 45 Resp: 66284

Ion Ratio Lower Upper

45 100

46 41.8 20.2 80.8

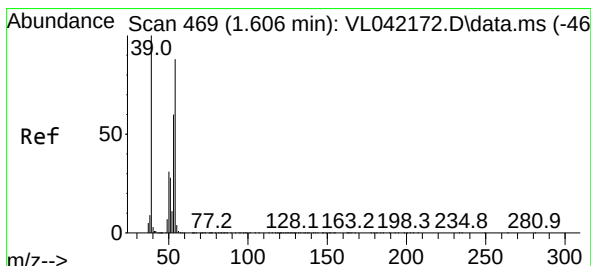
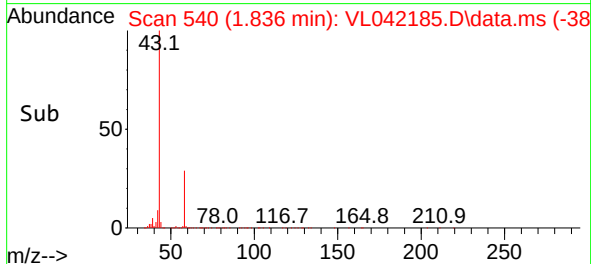
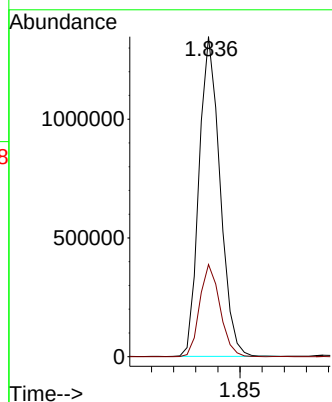
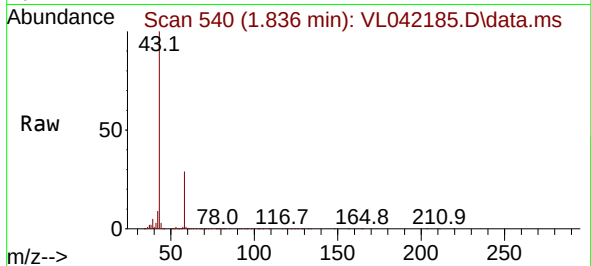




#15  
Acetone  
Concen: 34.703 ppbv  
RT: 1.836 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

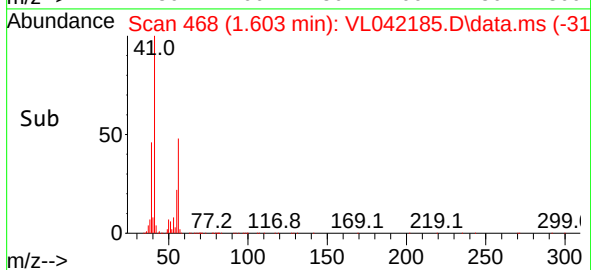
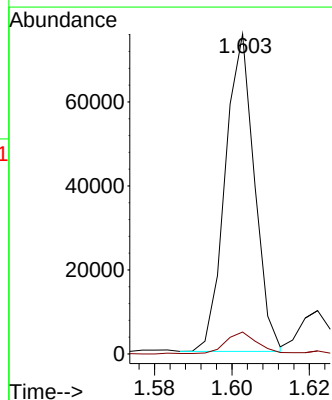
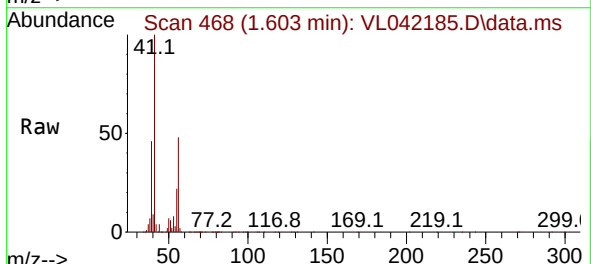
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

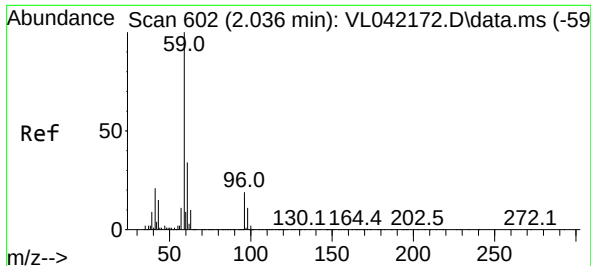
Tgt Ion: 43 Resp: 884107  
Ion Ratio Lower Upper  
43 100  
58 28.0 23.2 34.8



#16  
1,3-Butadiene  
Concen: 3.182 ppbv  
RT: 1.603 min Scan# 468  
Delta R.T. -0.003 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 39 Resp: 39589  
Ion Ratio Lower Upper  
39 100  
54 9.1 60.7 91.1#

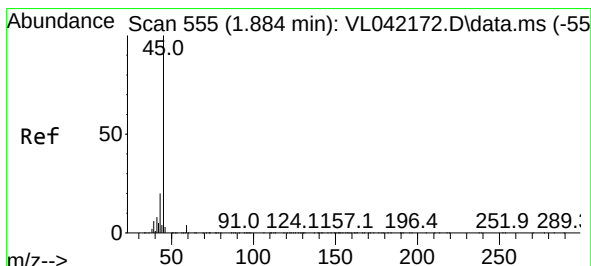
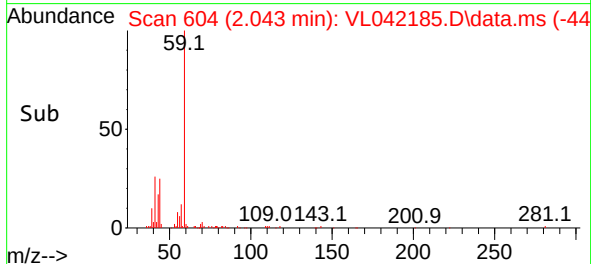
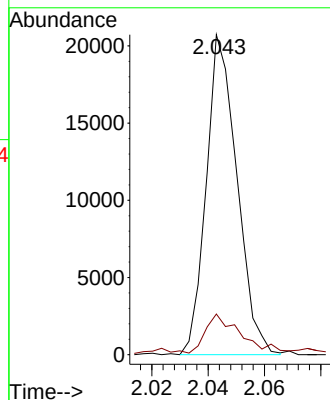
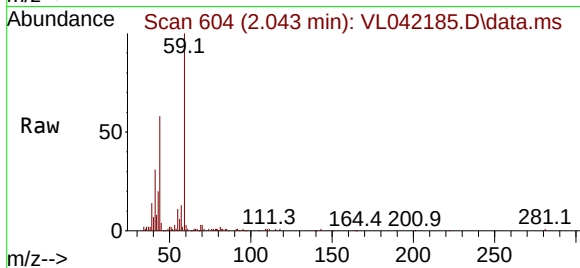




#17  
tert-Butyl alcohol  
Concen: 0.495 ppbv  
RT: 2.043 min Scan# 602  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

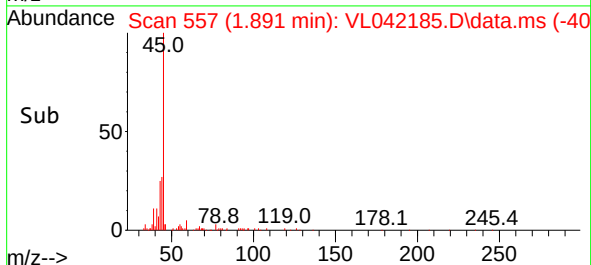
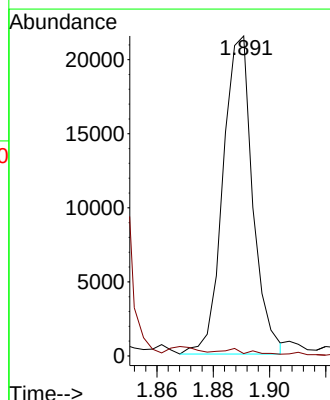
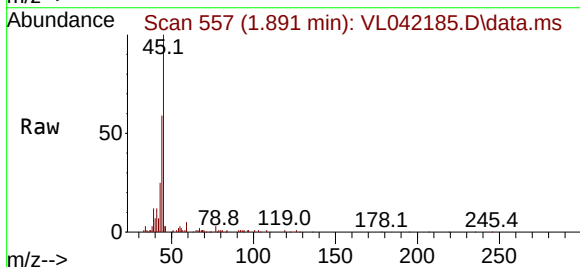
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

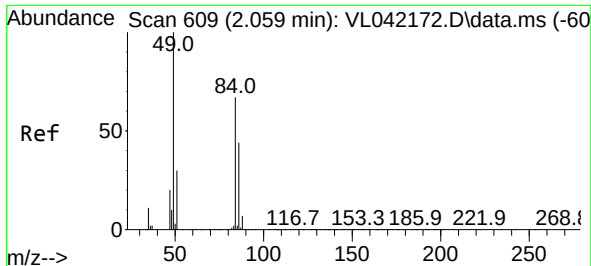
Tgt Ion: 59 Resp: 15704  
Ion Ratio Lower Upper  
59 100  
57 15.8 8.9 13.3#



#19  
Isopropyl Alcohol  
Concen: 1.097 ppbv  
RT: 1.891 min Scan# 557  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 45 Resp: 15772  
Ion Ratio Lower Upper  
45 100  
58 1574.5 36.9 55.3#

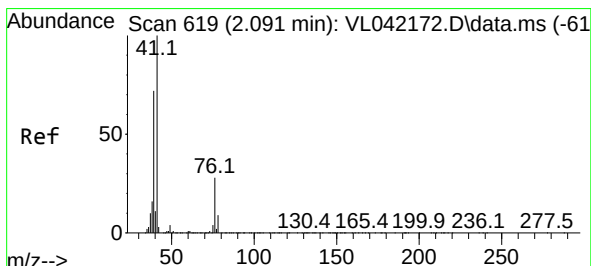
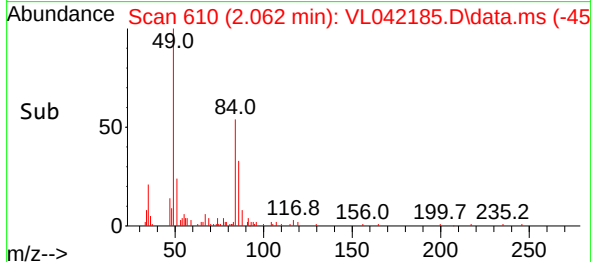
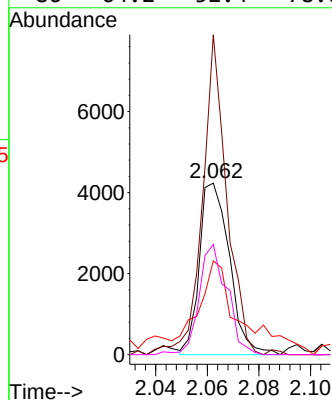
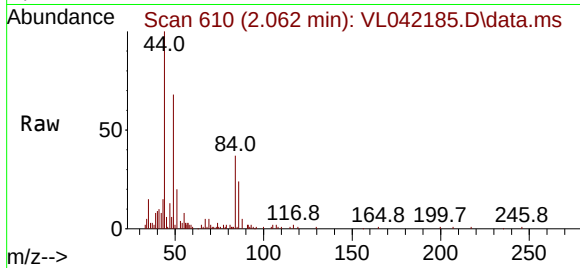




#20  
Methylene Chloride  
Concen: 0.362 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

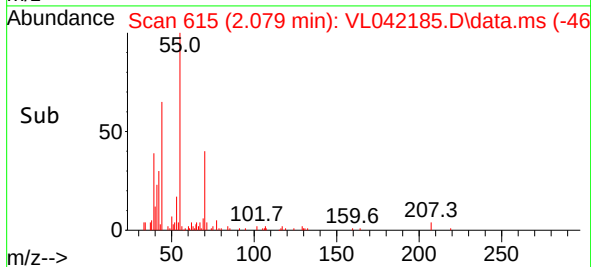
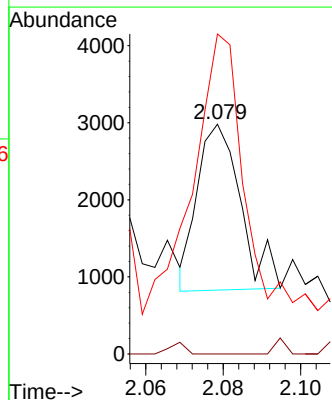
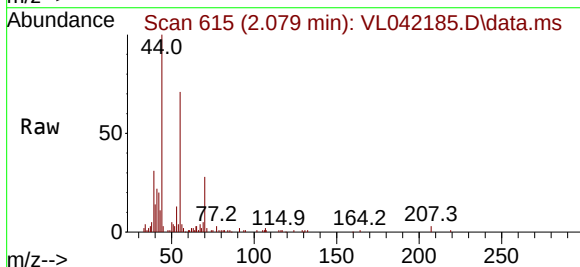
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

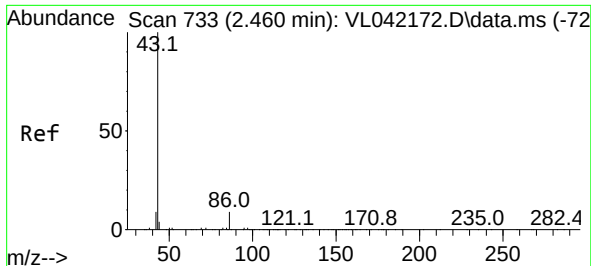
|             |                    |
|-------------|--------------------|
| Tgt Ion: 84 | Resp: 3433         |
| Ion Ratio   | Lower Upper        |
| 84          | 100                |
| 49          | 184.6 120.2 180.4# |
| 51          | 43.8 37.4 56.0     |
| 86          | 64.2 52.4 78.6     |



#21  
Allyl Chloride  
Concen: 0.093 ppbv  
RT: 2.079 min Scan# 615  
Delta R.T. -0.013 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

|             |                  |
|-------------|------------------|
| Tgt Ion: 41 | Resp: 1674       |
| Ion Ratio   | Lower Upper      |
| 41          | 100              |
| 76          | 0.0 24.1 36.1#   |
| 39          | 168.6 61.1 91.7# |

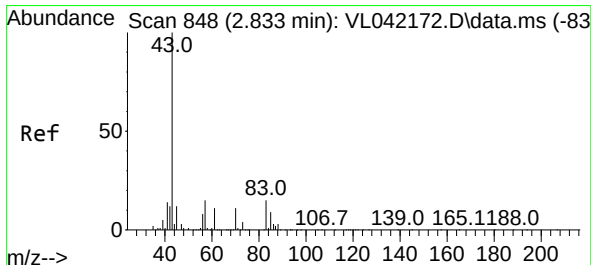
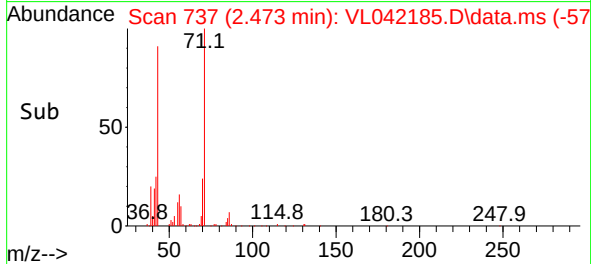
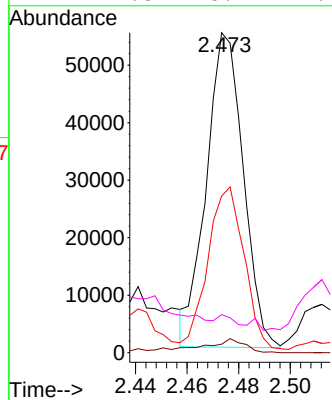
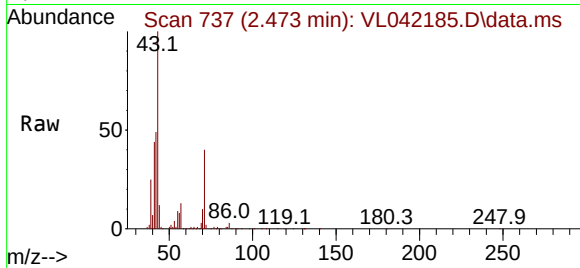




#23  
Vinyl Acetate  
Concen: 4.934 ppbv  
RT: 2.473 min Scan# 71  
Delta R.T. 0.013 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

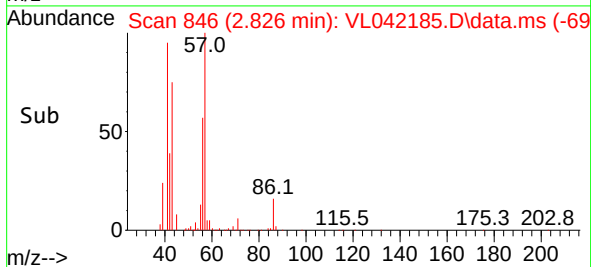
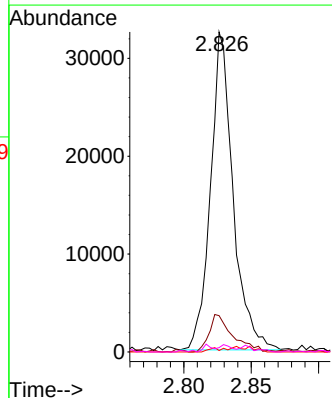
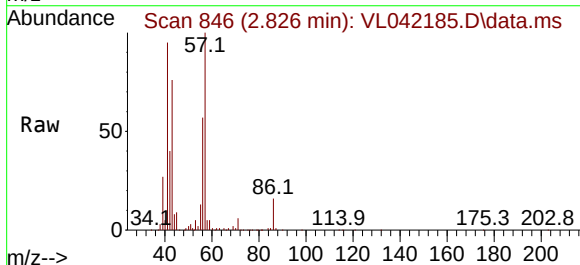
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

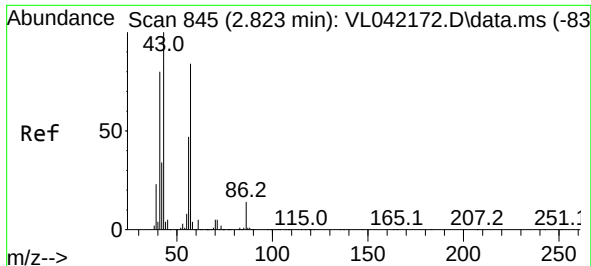
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 54408 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 2.7   | 5.5   | 8.3#  |
| 42       | 48.7  | 8.6   | 13.0# |
| 44       | 4.8   | 6.2   | 9.4#  |



#25  
Ethyl Acetate  
Concen: 0.573 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.006 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 37903 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 13.0  | 8.2   | 12.2# |
| 61       | 2.3   | 7.3   | 10.9# |
| 70       | 3.8   | 7.2   | 10.8# |

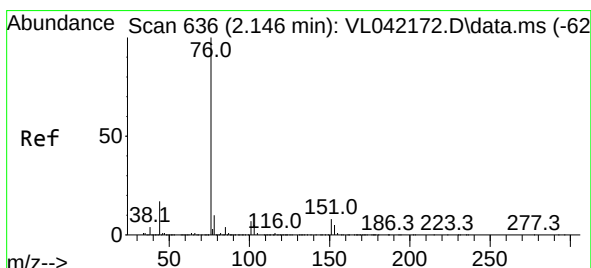
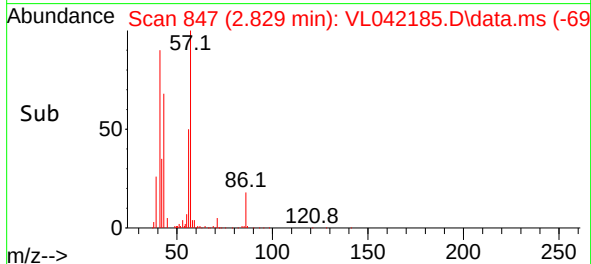
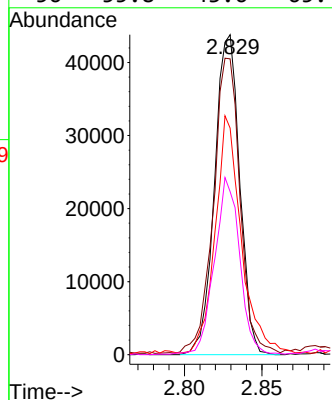
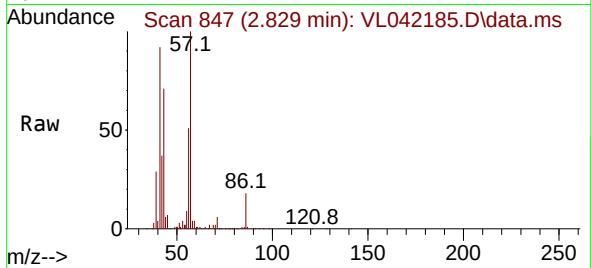




#26  
Hexane  
Concen: 1.934 ppbv  
RT: 2.829 min Scan# 84  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

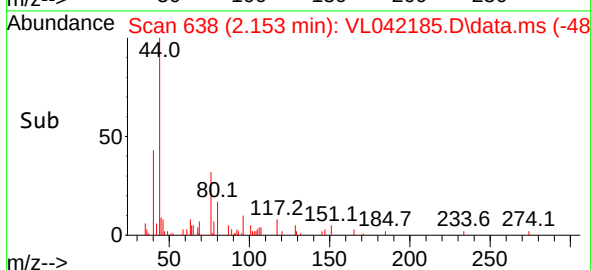
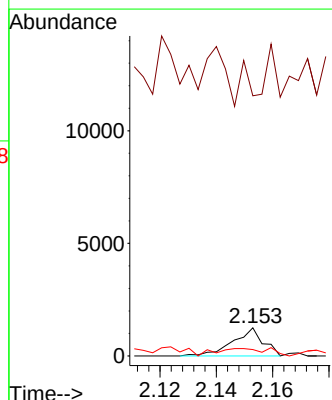
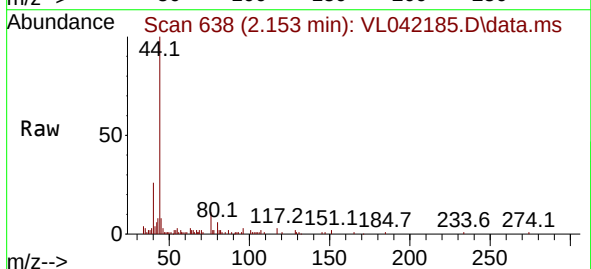
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

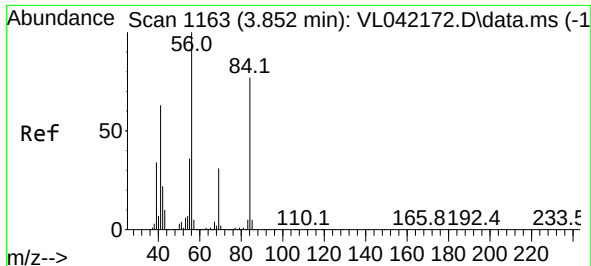
Tgt Ion: 57 Resp: 49383  
Ion Ratio Lower Upper  
57 100  
41 97.4 76.6 114.8  
43 78.3 207.8 311.8#  
56 55.8 43.6 65.4



#27  
Carbon Disulfide  
Concen: 0.034 ppbv  
RT: 2.153 min Scan# 638  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 76 Resp: 927  
Ion Ratio Lower Upper  
76 100  
44 1231.7 14.7 22.1#  
78 74.4 9.3 13.9#

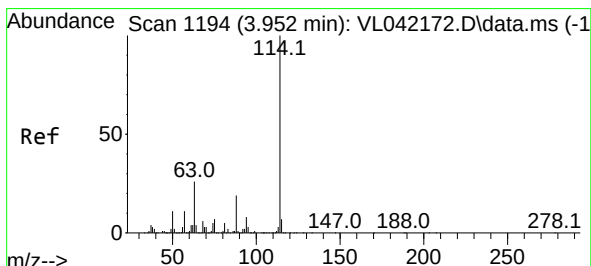
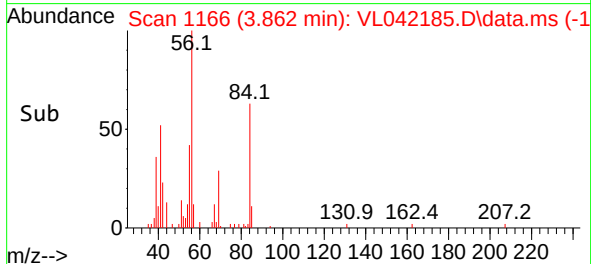
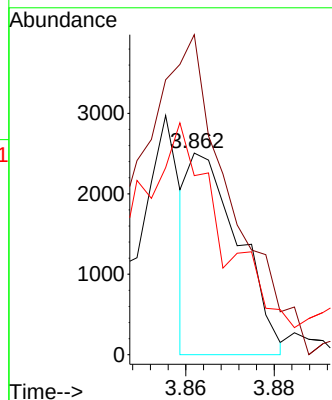
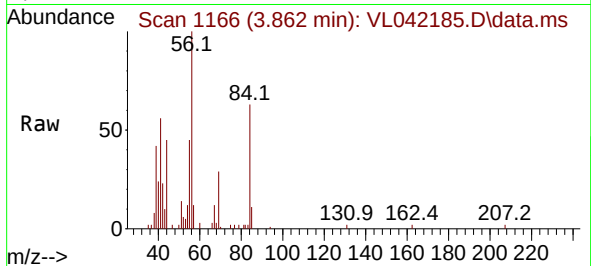




#30  
Cyclohexane  
Concen: 0.089 ppbv  
RT: 3.862 min Scan# 1163  
Delta R.T. 0.010 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

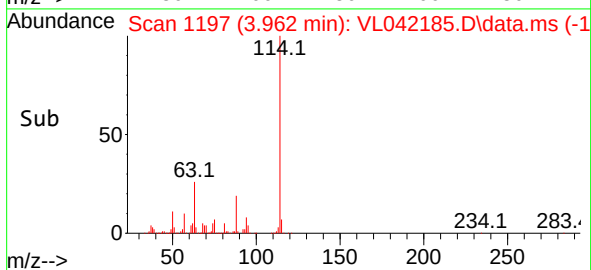
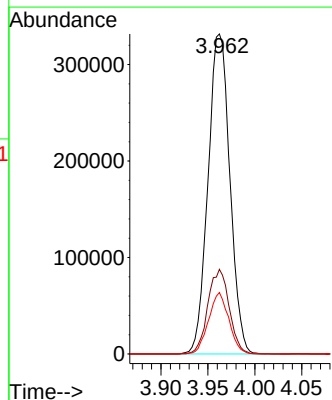
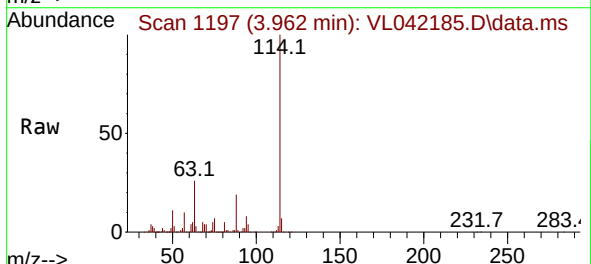
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

Tgt Ion: 84 Resp: 1978  
Ion Ratio Lower Upper  
84 100  
56 332.5 102.8 154.2#  
41 0.0 66.5 99.7#

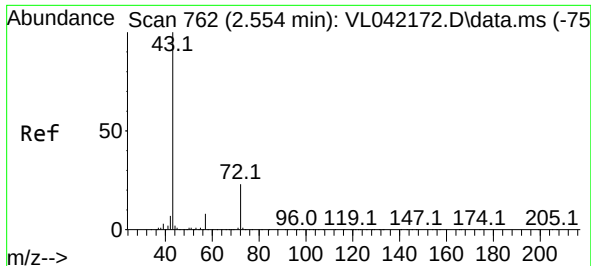


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. 0.010 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 114 Resp: 537249  
Ion Ratio Lower Upper  
114 100  
63 25.8 20.7 31.1  
88 17.9 15.0 22.4



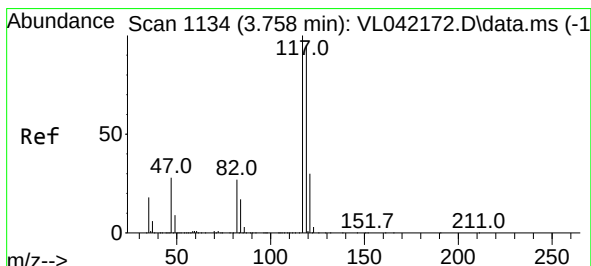
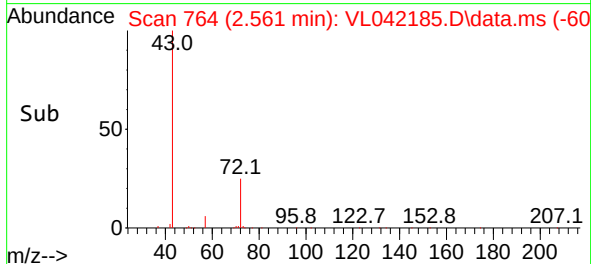
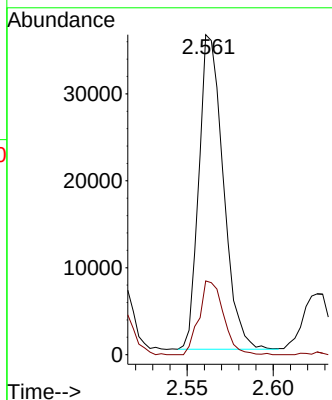
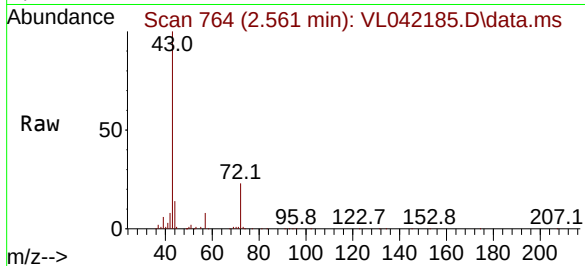




#34  
2-Butanone  
Concen: 0.913 ppbv  
RT: 2.561 min Scan# 764  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

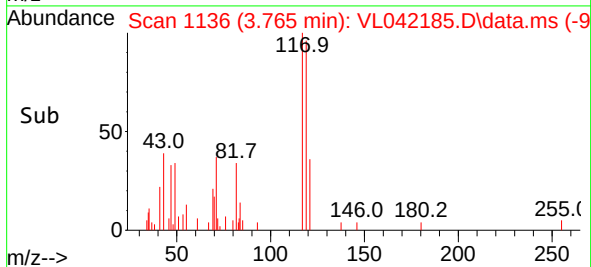
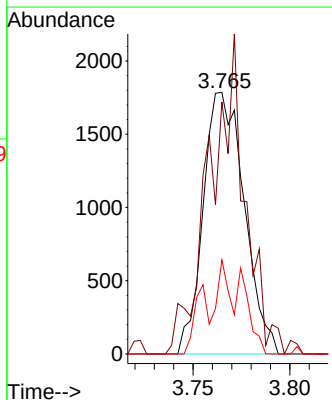
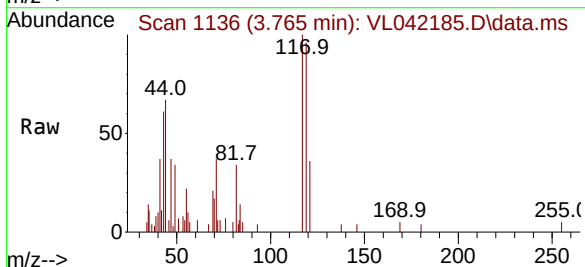
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

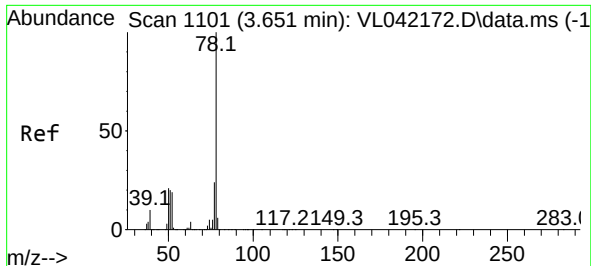
Tgt Ion: 43 Resp: 35584  
Ion Ratio Lower Upper  
43 100  
72 23.5 18.2 27.2



#35  
Carbon Tetrachloride  
Concen: 0.063 ppbv  
RT: 3.765 min Scan# 1136  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 117 Resp: 2627  
Ion Ratio Lower Upper  
117 100  
119 86.6 76.2 114.2  
121 35.9 24.2 36.4

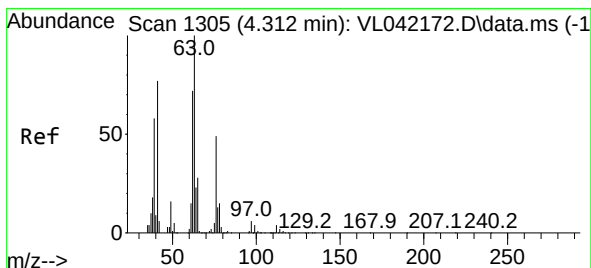
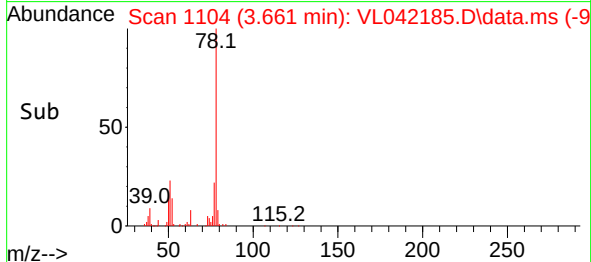
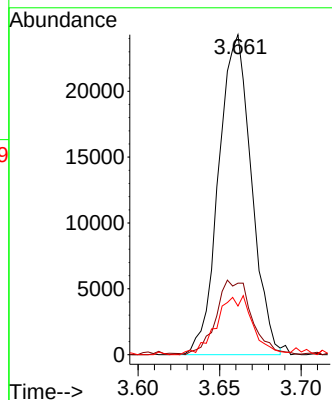
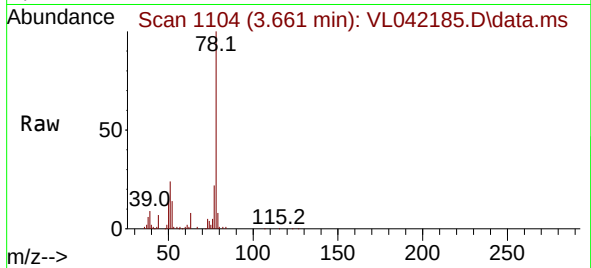




#36  
Benzene  
Concen: 0.639 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. 0.010 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

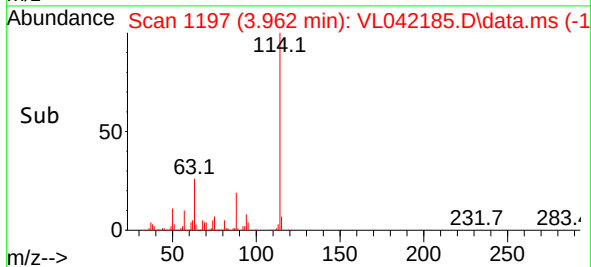
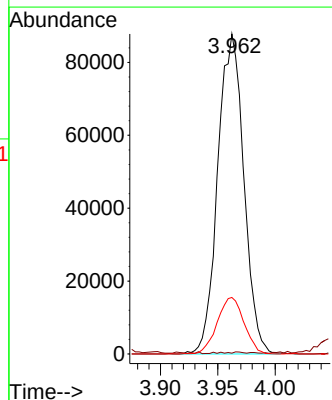
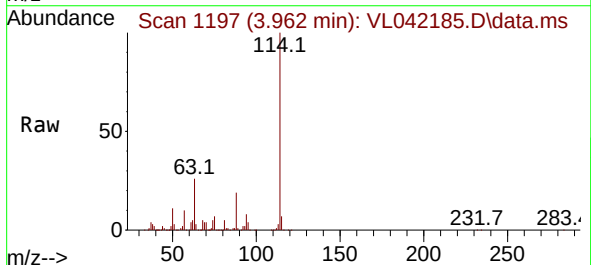
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

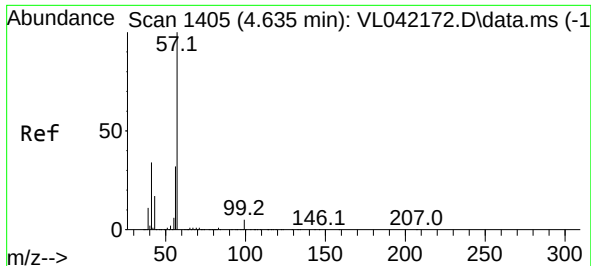
| Tgt Ion | 78    | 77   | 50   |
|---------|-------|------|------|
| Resp    | 34017 | 22.0 | 14.3 |
| Ratio   | 100   | 22.0 | 14.3 |
| Lower   |       | 19.1 | 16.6 |
| Upper   |       | 28.7 | 24.8 |



#39  
1,2-Dichloropropane  
Concen: 7.149 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. -0.349 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

| Tgt Ion | 63     | 41   | 62   |
|---------|--------|------|------|
| Resp    | 138666 | 0.2  | 17.7 |
| Ratio   | 100    | 0.2  | 17.7 |
| Lower   |        | 61.7 | 57.6 |
| Upper   |        | 92.5 | 86.4 |

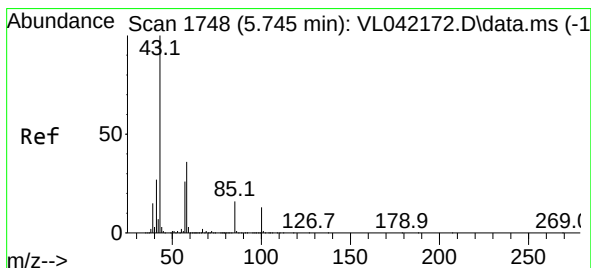
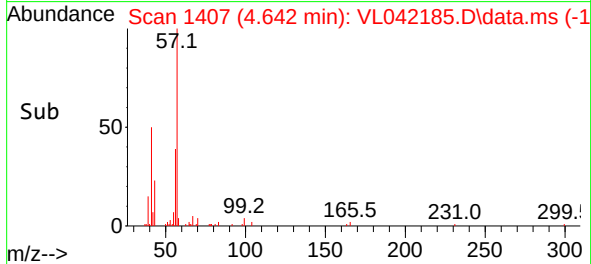
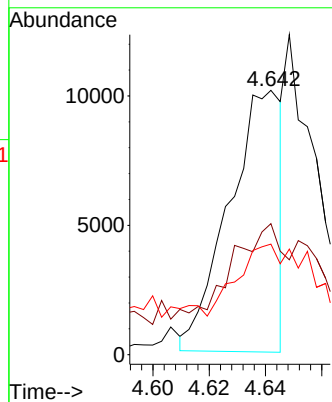
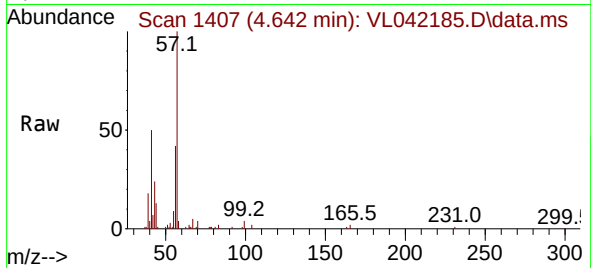




#44  
2,2,4-Trimethylpentane  
Concen: 0.145 ppbv  
RT: 4.642 min Scan# 1405  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

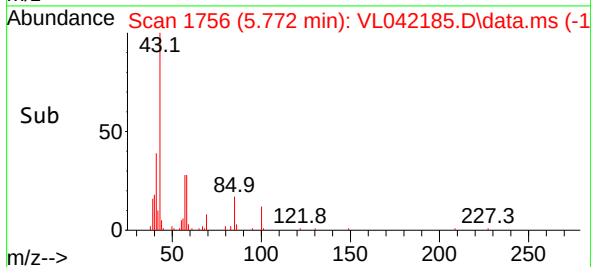
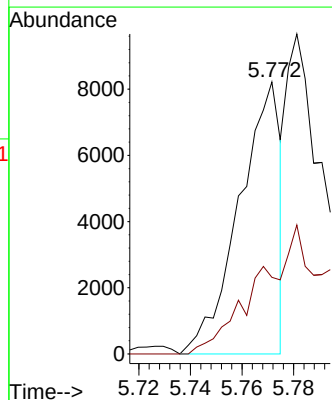
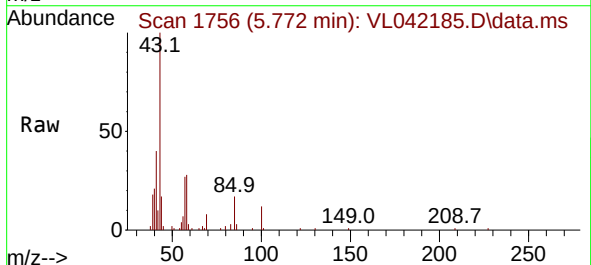
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA-B9-3-3262025

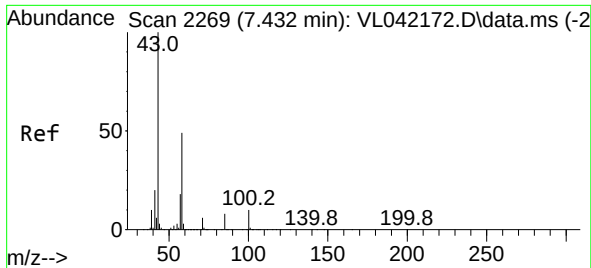
Tgt Ion: 57 Resp: 13063  
Ion Ratio Lower Upper  
57 100  
41 113.7 26.8 40.2#  
56 106.1 25.6 38.4#



#50  
4-Methyl-2-Pentanone  
Concen: 0.148 ppbv  
RT: 5.772 min Scan# 1756  
Delta R.T. 0.026 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 43 Resp: 9108  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.0 43.6#

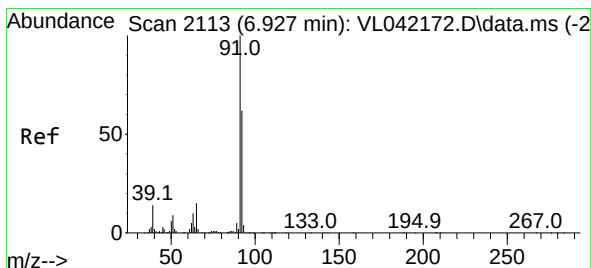
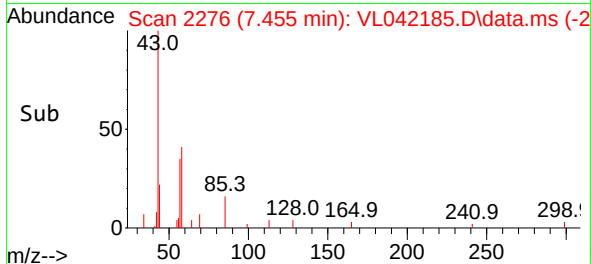
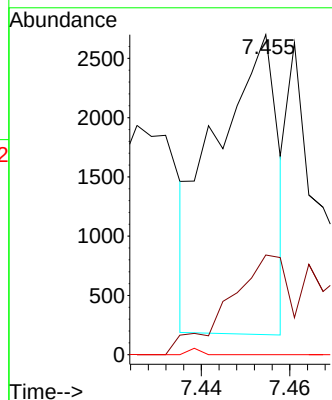
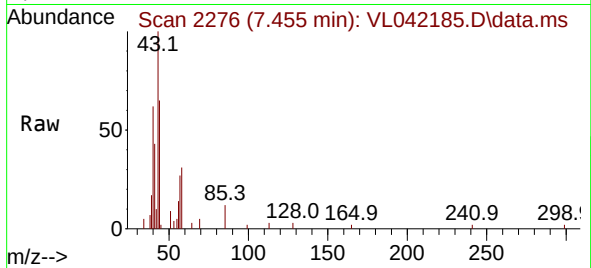




#51  
2-Hexanone  
Concen: 0.049 ppbv  
RT: 7.455 min Scan# 2116  
Delta R.T. 0.023 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

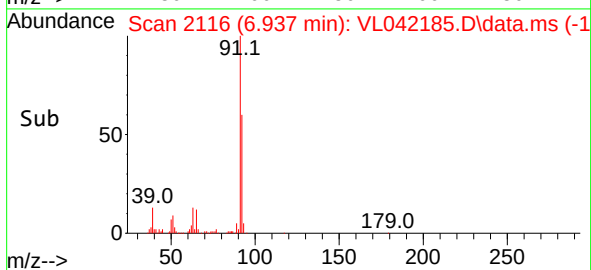
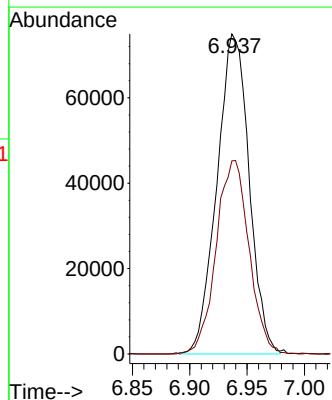
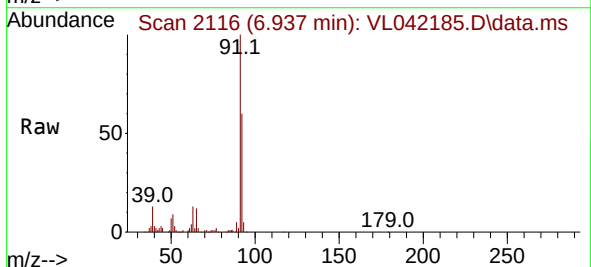
Instrument : MSVOA\_1  
ClientSampleId : IA-B9-3-3262025

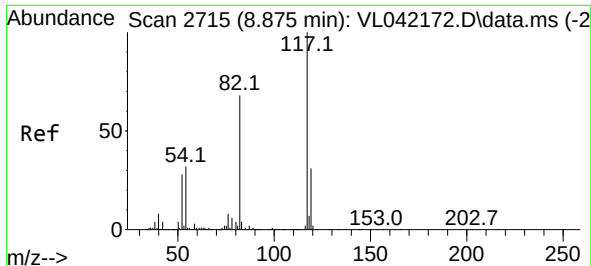
Tgt Ion: 43 Resp: 2476  
Ion Ratio Lower Upper  
43 100  
58 60.8 39.7 59.5#  
98 0.0 0.1 0.1#



#53  
Toluene  
Concen: 2.319 ppbv  
RT: 6.937 min Scan# 2116  
Delta R.T. 0.010 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 91 Resp: 146384  
Ion Ratio Lower Upper  
91 100  
92 61.6 48.4 72.6

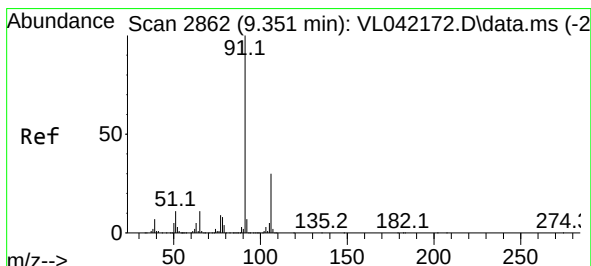
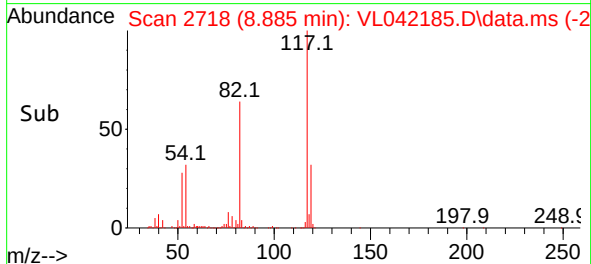
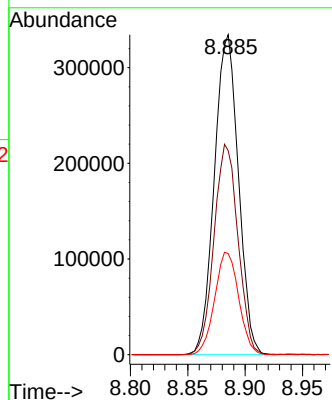
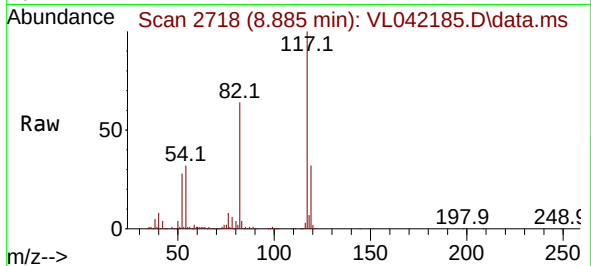




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

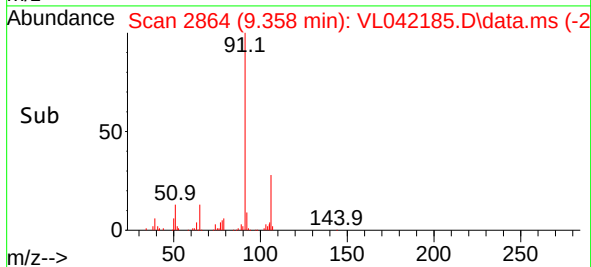
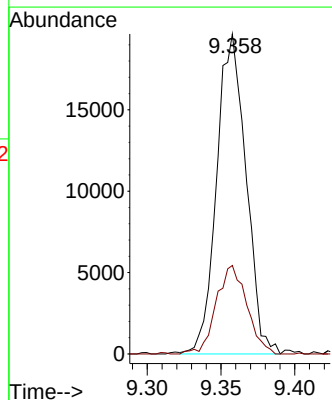
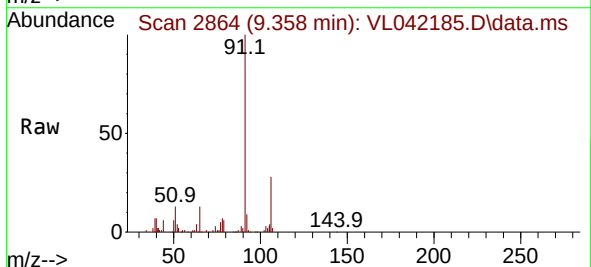
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

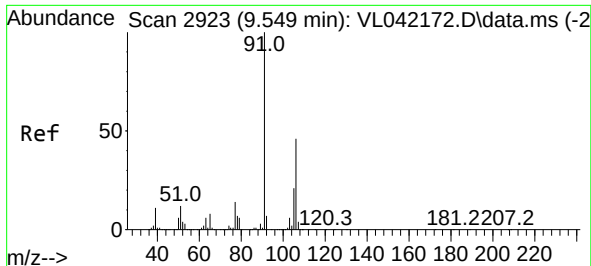
Tgt Ion:117 Resp: 488802  
Ion Ratio Lower Upper  
117 100  
82 65.5 55.8 83.6  
119 32.1 25.5 38.3



#58  
Ethyl Benzene  
Concen: 0.313 ppbv  
RT: 9.358 min Scan# 2864  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 91 Resp: 27191  
Ion Ratio Lower Upper  
91 100  
106 27.7 24.2 36.2





#59

m/p-Xylene

Concen: 0.894 ppbv

RT: 9.533 min Scan# 2918

Delta R.T. -0.016 min

Lab File: VL042185.D

Acq: 27 Mar 2025 18:22

Instrument :

MSVOA\_L

ClientSampleId :

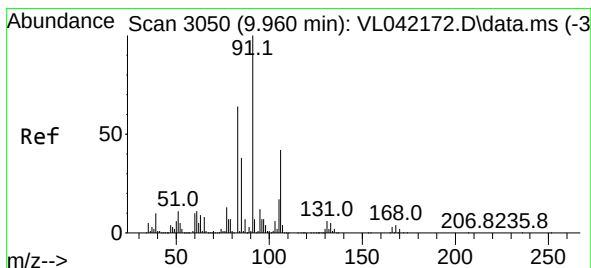
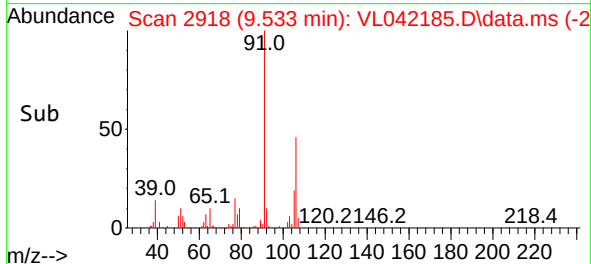
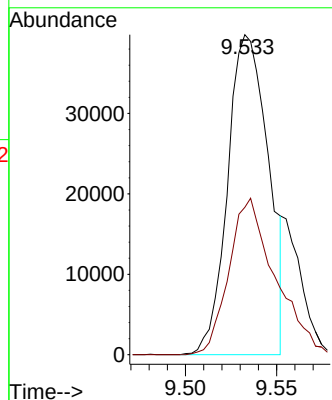
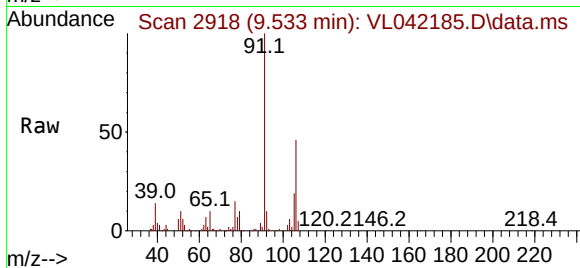
IA-B9-3-3262025

Tgt Ion: 91 Resp: 61979

Ion Ratio Lower Upper

91 100

106 55.4 36.4 54.6#



#60

o-Xylene

Concen: 0.505 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.007 min

Lab File: VL042185.D

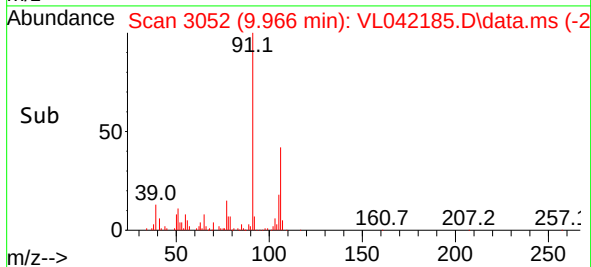
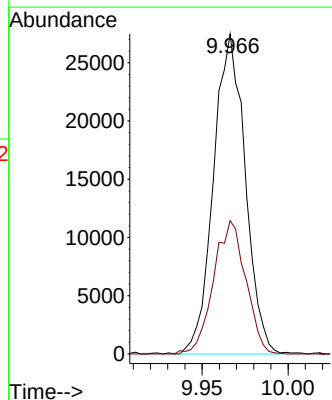
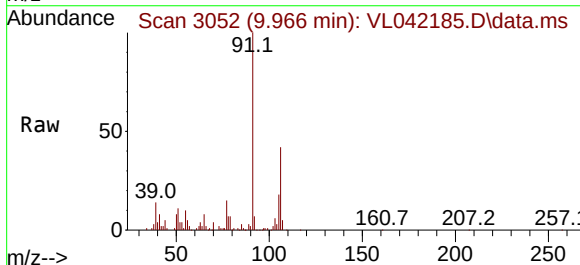
Acq: 27 Mar 2025 18:22

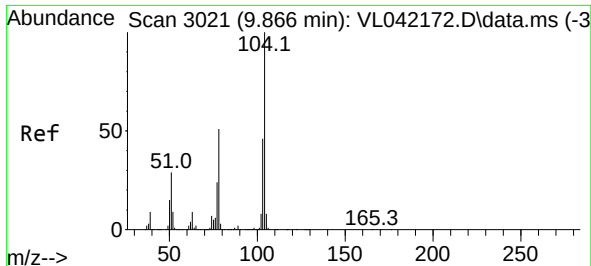
Tgt Ion: 91 Resp: 35115

Ion Ratio Lower Upper

91 100

106 42.3 20.8 62.5

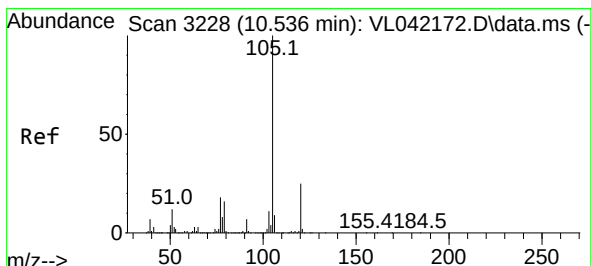
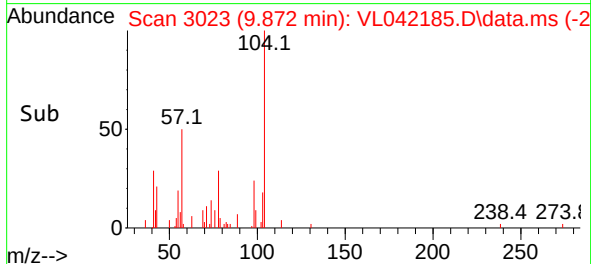
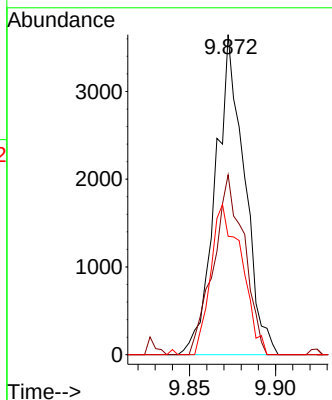
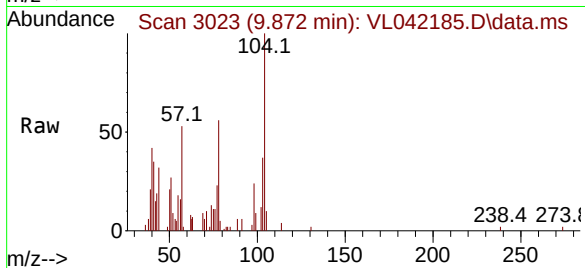




#61  
Styrene  
Concen: 0.124 ppbv  
RT: 9.872 min Scan# 3021  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

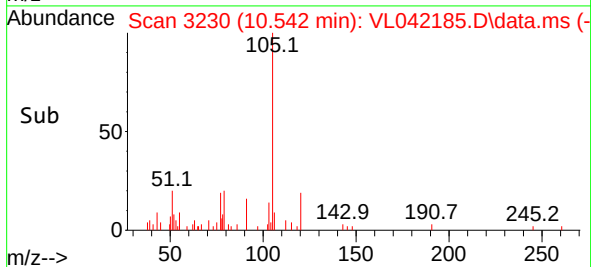
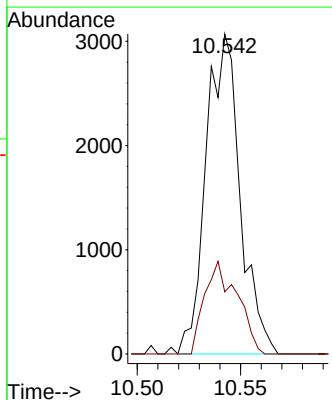
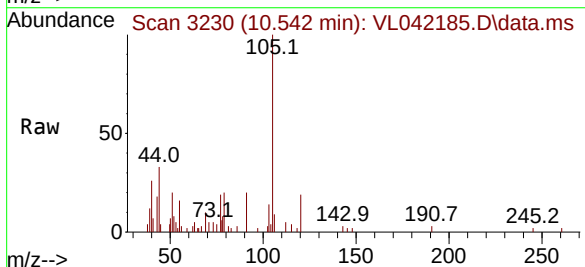
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

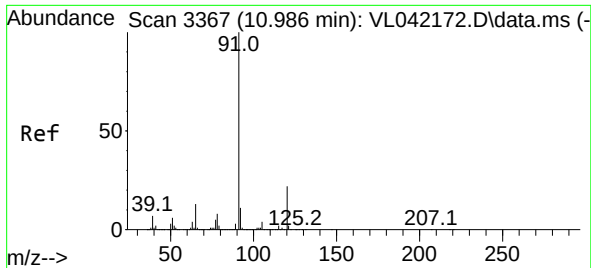
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 104   | Resp: | 4273 |
| Ion Ratio | Lower | Upper |      |
| 104       | 100   |       |      |
| 78        | 60.5  | 41.8  | 62.6 |
| 103       | 49.9  | 37.0  | 55.4 |



#62  
Isopropylbenzene  
Concen: 0.034 ppbv  
RT: 10.542 min Scan# 3230  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 3524 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 27.8  | 19.9  | 29.9 |

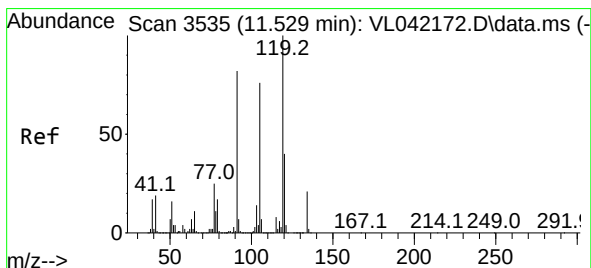
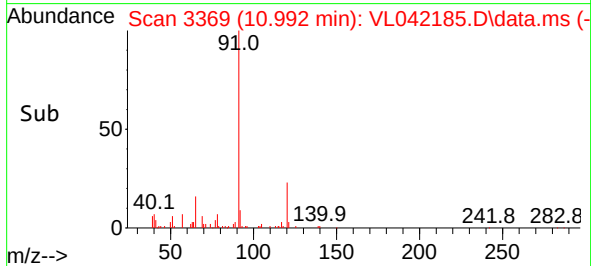
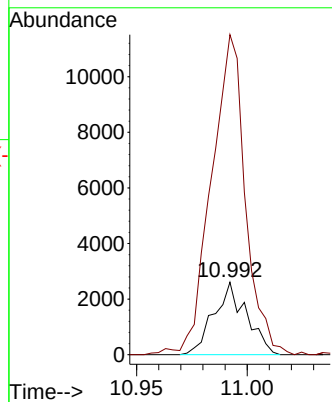
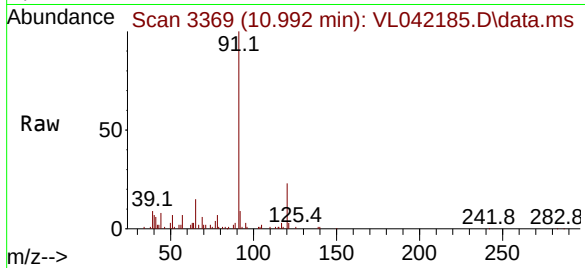




#64  
n-propylbenzene  
Concen: 0.100 ppbv  
RT: 10.992 min Scan# 31  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

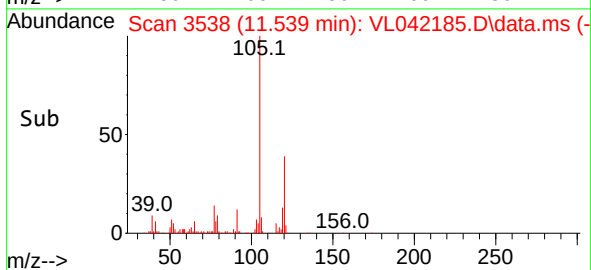
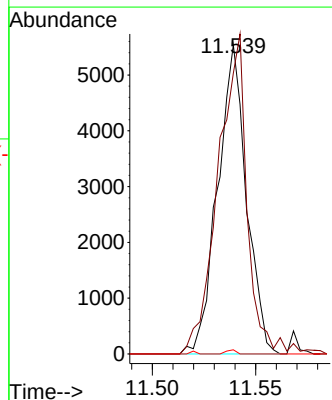
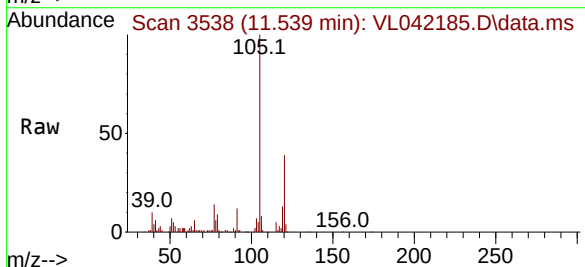
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

Tgt Ion:120 Resp: 2677  
Ion Ratio Lower Upper  
120 100  
91 461.2 376.9 565.3

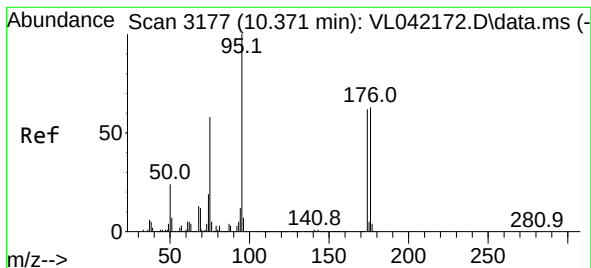


#65  
tert-Butylbenzene  
Concen: 0.056 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.010 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion:119 Resp: 5380  
Ion Ratio Lower Upper  
119 100  
91 105.0 66.0 99.0#  
134 0.7 16.7 25.1#



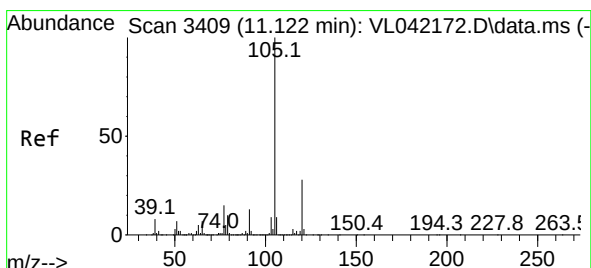
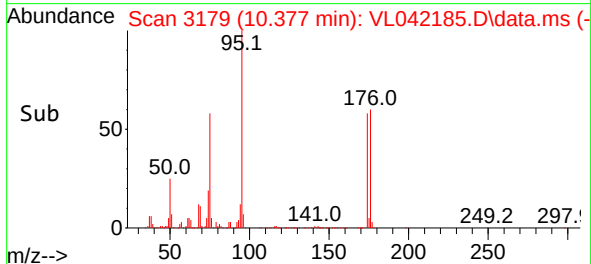
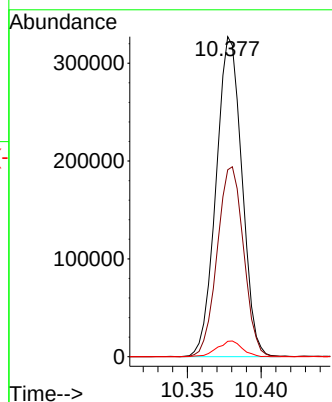
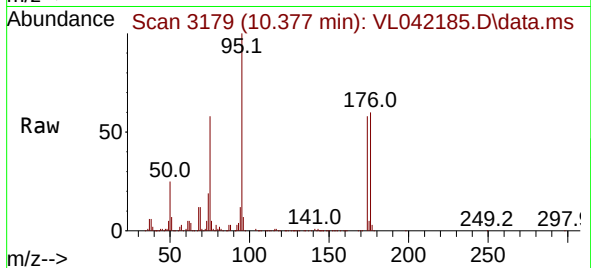




#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.946 ppbv  
RT: 10.377 min Scan# 3177  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

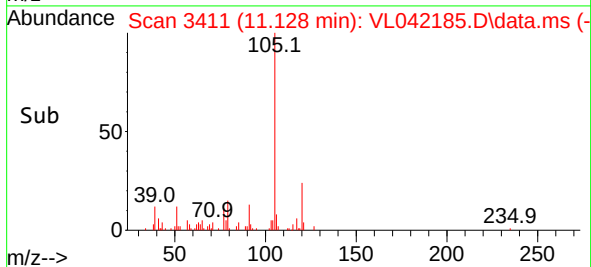
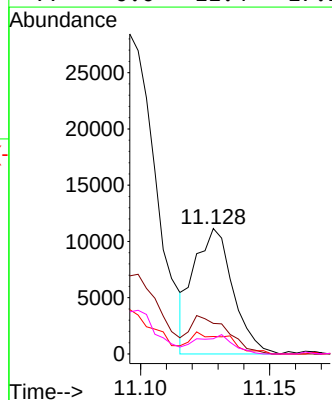
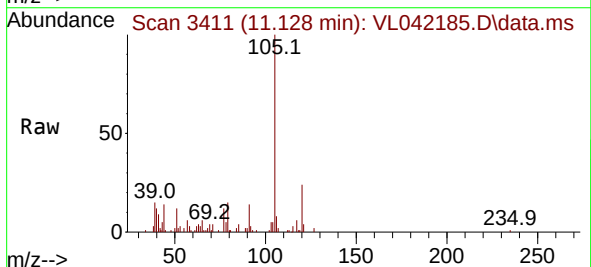
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

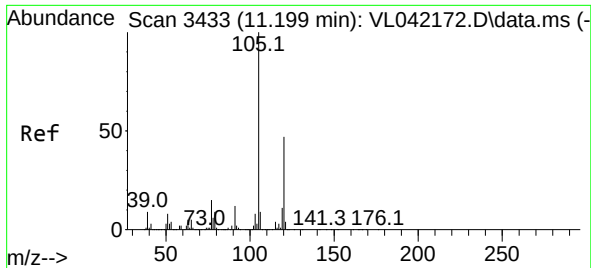
Tgt Ion: 95 Resp: 399253  
Ion Ratio Lower Upper  
95 100  
174 60.5 50.6 76.0  
175 4.8 3.8 5.6



#72  
4-Ethyltoluene  
Concen: 0.135 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion: 105 Resp: 11701  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.4 35.0#  
91 0.0 10.3 15.5#  
77 0.0 11.4 17.2#

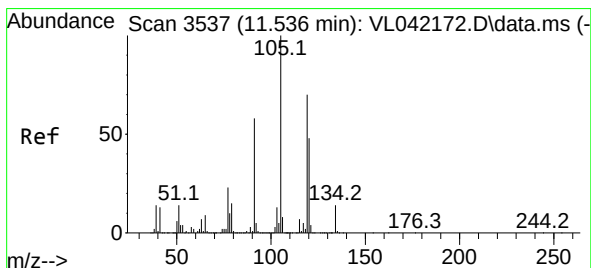
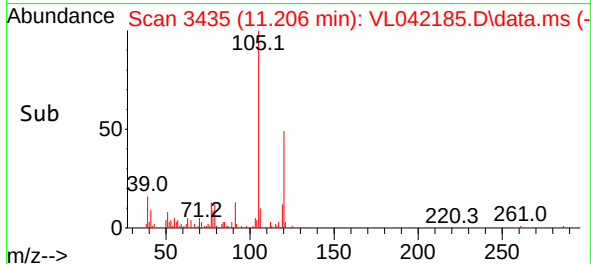
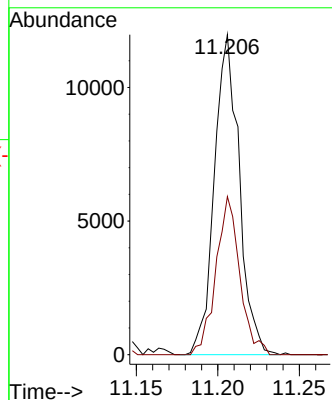
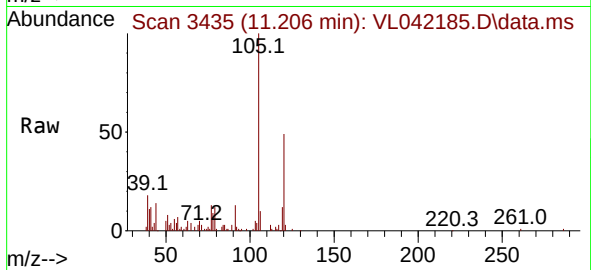




#73  
1,3,5-Trimethylbenzene  
Concen: 0.168 ppbv  
RT: 11.206 min Scan# 3433  
Delta R.T. 0.007 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

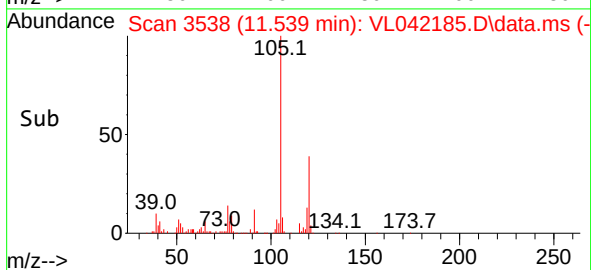
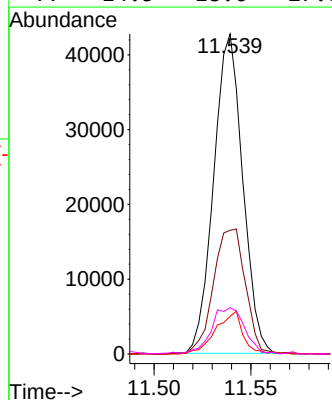
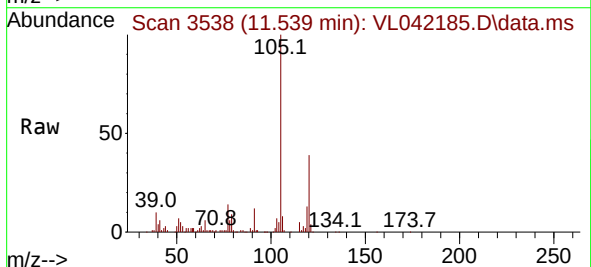
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025

Tgt Ion:105 Resp: 12679  
Ion Ratio Lower Upper  
105 100  
120 49.4 37.4 56.0



#74  
1,2,4-Trimethylbenzene  
Concen: 0.510 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.003 min  
Lab File: VL042185.D  
Acq: 27 Mar 2025 18:22

Tgt Ion:105 Resp: 44446  
Ion Ratio Lower Upper  
105 100  
120 38.5 38.6 58.0#  
91 11.8 46.2 69.2#  
77 14.5 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042186.D  
 Acq On : 27 Mar 2025 18:59  
 Operator : SY/MD  
 Sample : Q1669-02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-2-3262025

Quant Time: Mar 28 02:15:31 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

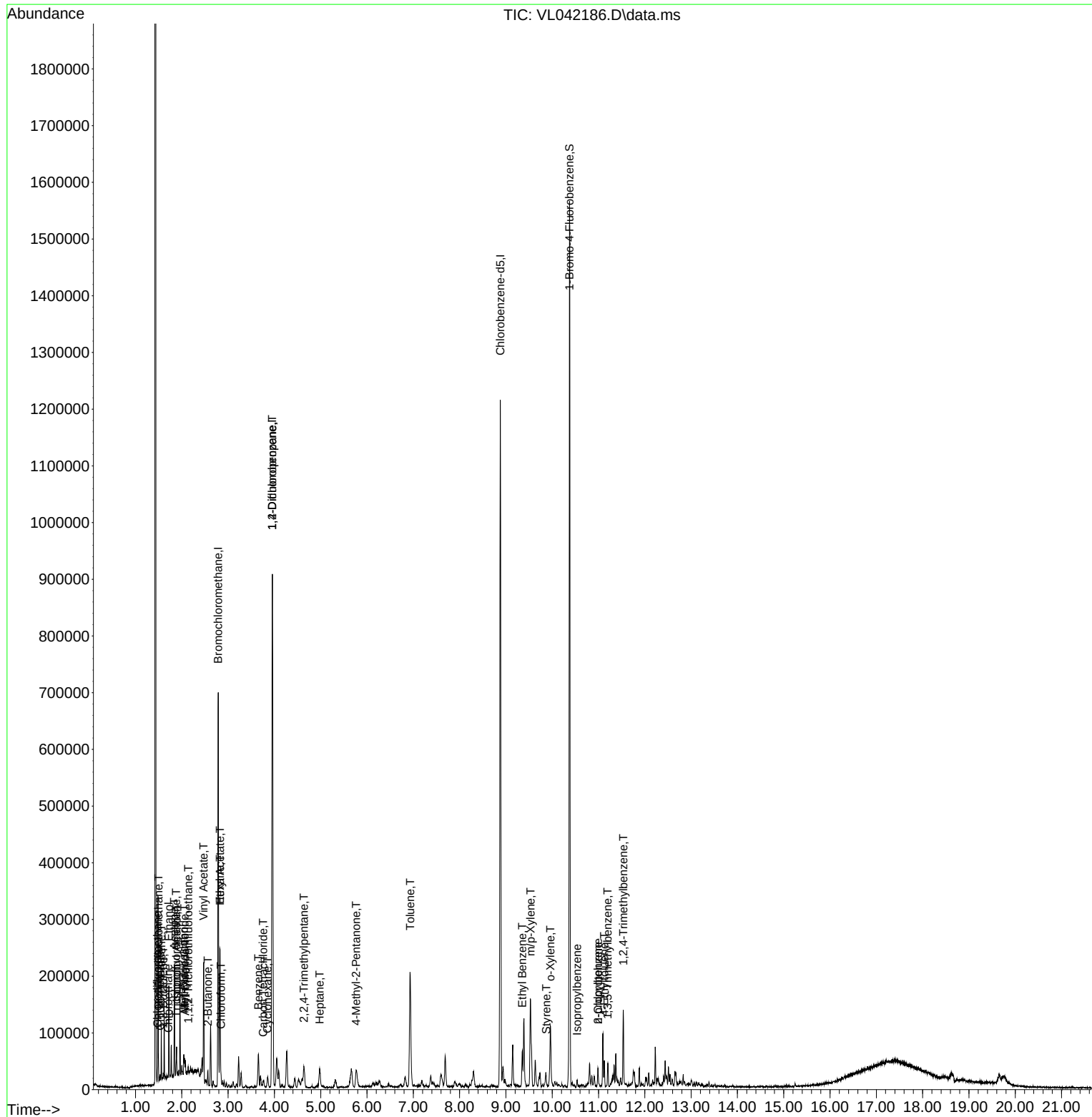
| Compound                       | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards             |        |       |          |          |        |          |
| 1) Bromochloromethane          | 2.784  | 49    | 187729   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene        | 3.955  | 114   | 538422   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5           | 8.878  | 117   | 491411   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds    |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene    | 10.374 | 95    | 400118   | 9.915    | ppbv   | 0.00     |
| Spiked Amount                  | 10.000 | Range | 65 - 135 | Recovery | =      | 99.100%  |
| Target Compounds               |        |       |          |          |        |          |
|                                |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane     | 1.496  | 85    | 11483    | 0.414    | ppbv   | 94       |
| 3) Chlorodifluoromethane       | 1.473  | 51    | 9481     | 0.335    | ppbv   | 99       |
| 4) Chloromethane               | 1.531  | 50    | 2440     | 0.215    | ppbv   | 96       |
| 7) Chloroethane                | 1.706  | 64    | 355      | 0.078    | ppbv # | 58       |
| 9) Propene                     | 1.557  | 41    | 9472     | 0.730    | ppbv   | 97       |
| 10) Heptane                    | 4.978  | 43    | 12851    | 0.372    | ppbv   | 93       |
| 11) Trichlorofluoromethane     | 1.877  | 101   | 5432     | 0.201    | ppbv   | 87       |
| 12) 1,1,2-Trichlorotri fluo... | 2.140  | 101   | 1424     | 0.064    | ppbv   | 86       |
| 13) Ethanol                    | 1.719  | 45    | 57647    | 46.985   | ppbv   | 83       |
| 15) Acetone                    | 1.835  | 43    | 64251    | 2.447    | ppbv # | 82       |
| 16) 1,3-Butadiene              | 1.599  | 39    | 710      | 0.055    | ppbv # | 82       |
| 17) tert-Butyl alcohol         | 2.043  | 59    | 12249    | 0.375    | ppbv # | 83       |
| 19) Isopropyl Alcohol          | 1.887  | 45    | 20907    | 1.411    | ppbv # | 82       |
| 20) Methylene Chloride         | 2.059  | 84    | 3376     | 0.345    | ppbv # | 91       |
| 21) Allyl Chloride             | 2.075  | 41    | 1290     | 0.070    | ppbv # | 1        |
| 23) Vinyl Acetate              | 2.470  | 43    | 66536    | 5.855    | ppbv # | 51       |
| 25) Ethyl Acetate              | 2.823  | 43    | 42904    | 0.630    | ppbv # | 81       |
| 26) Hexane                     | 2.826  | 57    | 60389    | 2.294    | ppbv # | 34       |
| 29) Chloroform                 | 2.845  | 83    | 4455     | 0.116    | ppbv   | 92       |
| 30) Cyclohexane                | 3.849  | 84    | 3691     | 0.161    | ppbv # | 58       |
| 34) 2-Butanone                 | 2.564  | 43    | 16547    | 0.424    | ppbv   | 96       |
| 35) Carbon Tetrachloride       | 3.758  | 117   | 1590     | 0.038    | ppbv # | 56       |
| 36) Benzene                    | 3.654  | 78    | 35891    | 0.672    | ppbv # | 90       |
| 39) 1,2-Dichloropropane        | 3.955  | 63    | 138560   | 7.128    | ppbv # | 24       |
| 44) 2,2,4-Trimethylpentane     | 4.638  | 57    | 31601    | 0.350    | ppbv # | 80       |
| 50) 4-Methyl-2-Pentanone       | 5.765  | 43    | 26447    | 0.427    | ppbv   | 99       |
| 53) Toluene                    | 6.933  | 91    | 146301   | 2.312    | ppbv   | 99       |
| 58) Ethyl Benzene              | 9.351  | 91    | 33902    | 0.388    | ppbv # | 89       |
| 59) m/p-Xylene                 | 9.532  | 91    | 96658    | 1.387    | ppbv   | 97       |
| 60) o-Xylene                   | 9.959  | 91    | 45203    | 0.647    | ppbv   | 99       |
| 61) Styrene                    | 9.872  | 104   | 1858     | 0.054    | ppbv # | 1        |
| 62) Isopropylbenzene           | 10.539 | 105   | 5047     | 0.048    | ppbv # | 88       |
| 64) n-propylbenzene            | 10.989 | 120   | 2657     | 0.099    | ppbv # | 52       |
| 71) 2-Chlorotoluene            | 10.989 | 91    | 15693    | 0.194    | ppbv # | 46       |
| 72) 4-Ethyltoluene             | 11.125 | 105   | 17501    | 0.201    | ppbv # | 55       |
| 73) 1,3,5-Trimethylbenzene     | 11.199 | 105   | 13983    | 0.184    | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene     | 11.536 | 105   | 47154    | 0.539    | ppbv # | 63       |

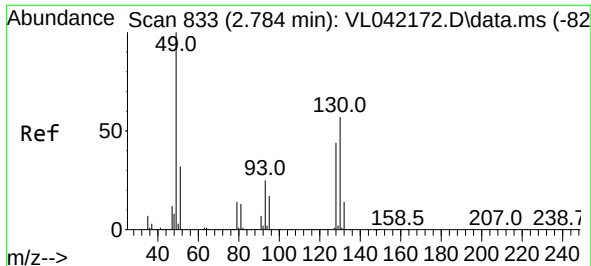
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042186.D  
Acq On : 27 Mar 2025 18:59  
Operator : SY/MD  
Sample : Q1669-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

Quant Time: Mar 28 02:15:31 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

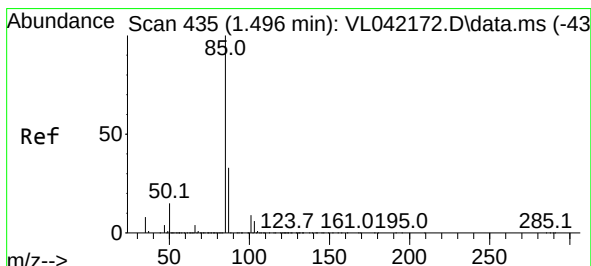
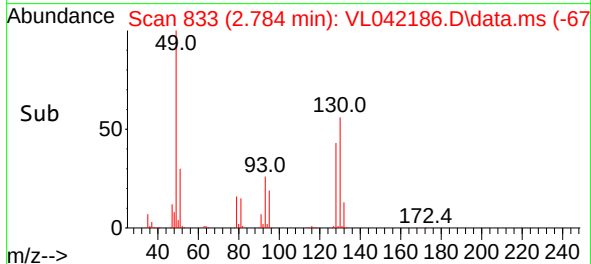
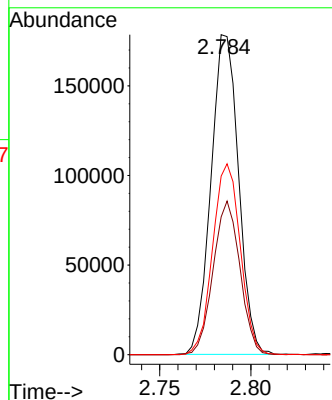
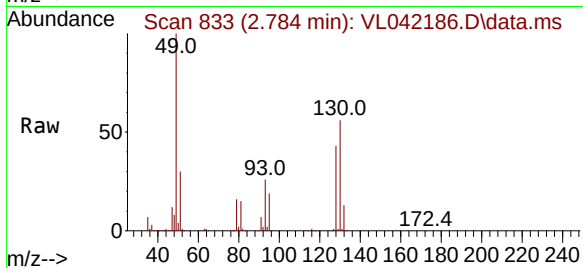




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 833  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

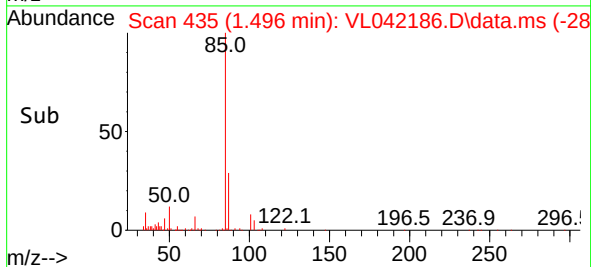
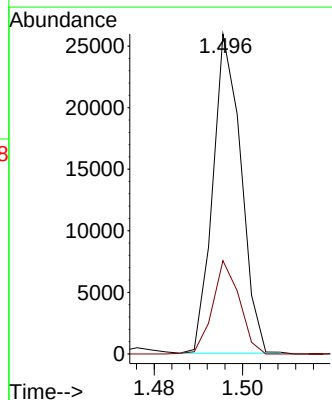
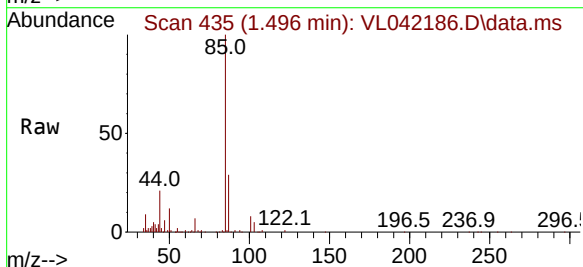
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

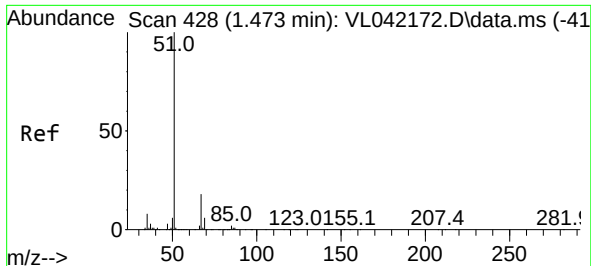
Tgt Ion: 49 Resp: 187729  
Ion Ratio Lower Upper  
49 100  
128 46.8 22.9 68.5  
130 60.0 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 0.414 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 85 Resp: 11483  
Ion Ratio Lower Upper  
85 100  
87 29.2 26.1 39.1

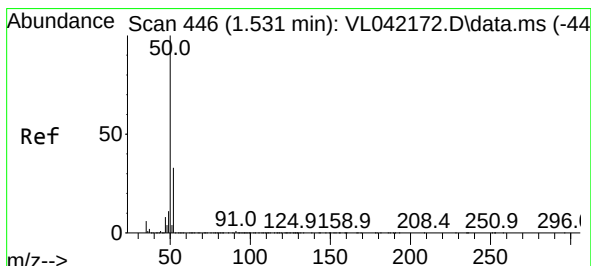
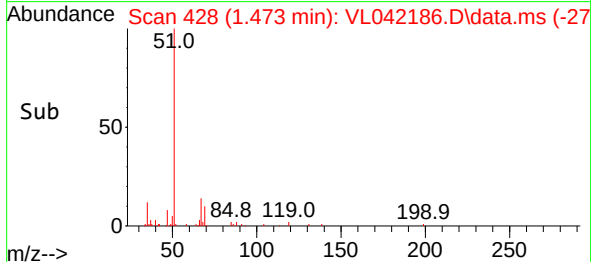
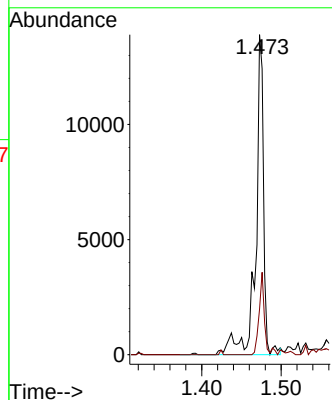
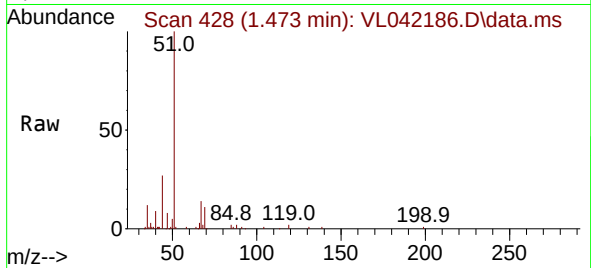




#3  
Chlorodifluoromethane  
Concen: 0.335 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

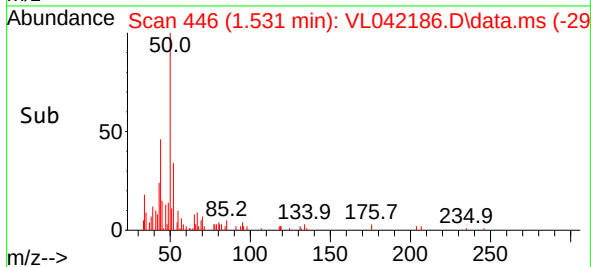
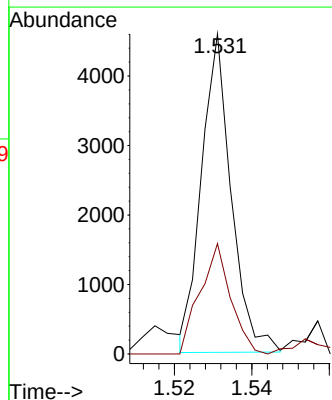
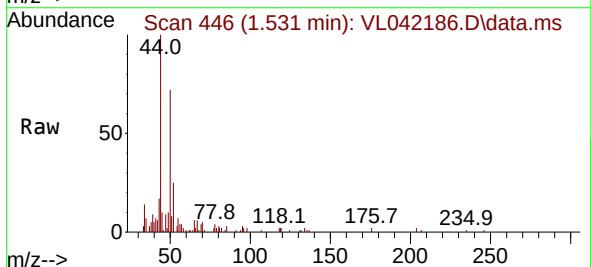
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

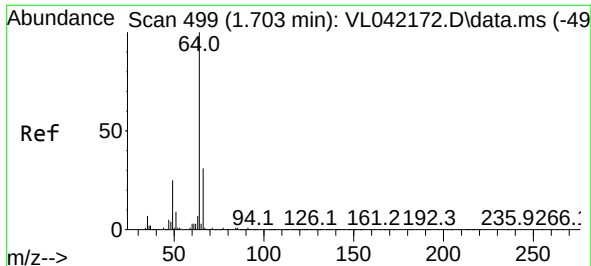
Tgt Ion: 51 Resp: 9481  
Ion Ratio Lower Upper  
51 100  
67 19.2 15.0 22.6



#4  
Chloromethane  
Concen: 0.215 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 50 Resp: 2440  
Ion Ratio Lower Upper  
50 100  
52 34.9 26.1 39.1

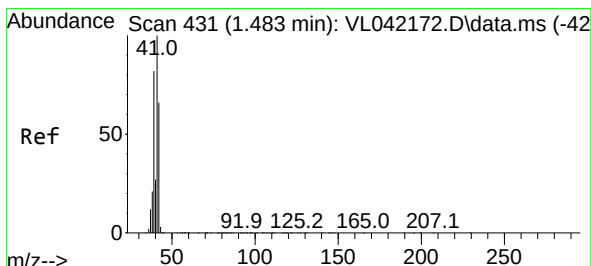
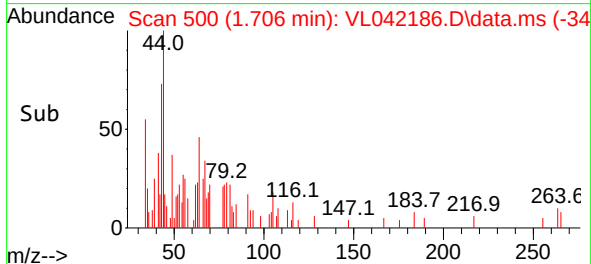
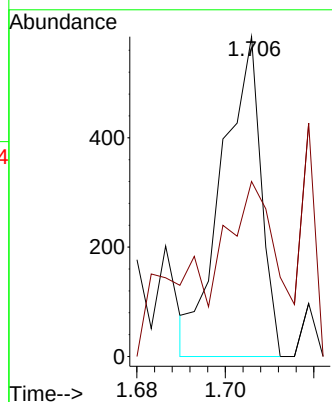
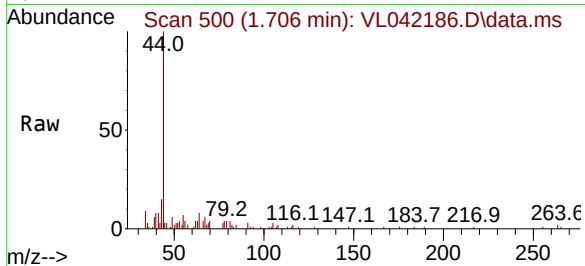




#7  
Chloroethane  
Concen: 0.078 ppbv  
RT: 1.706 min Scan# 50  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

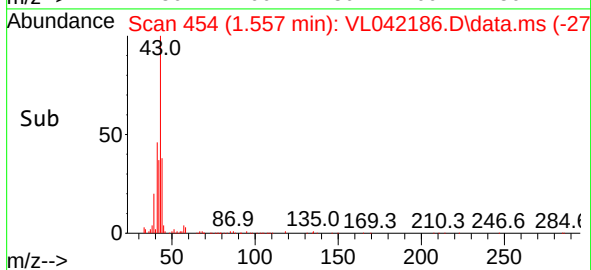
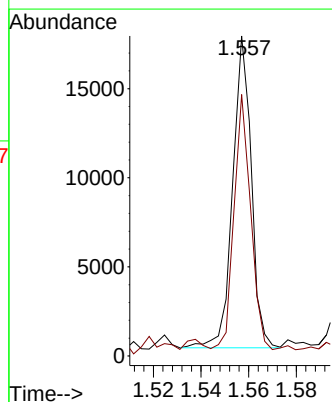
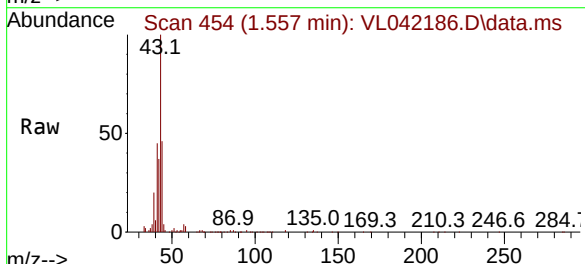
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA-B9-2-3262025

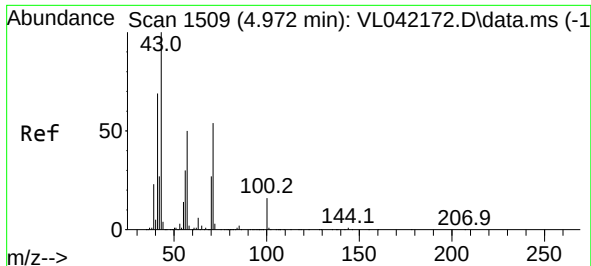
Tgt Ion: 64 Resp: 355  
Ion Ratio Lower Upper  
64 100  
66 54.7 25.2 37.8#



#9  
Propene  
Concen: 0.730 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.074 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 41 Resp: 9472  
Ion Ratio Lower Upper  
41 100  
42 71.6 55.4 83.2

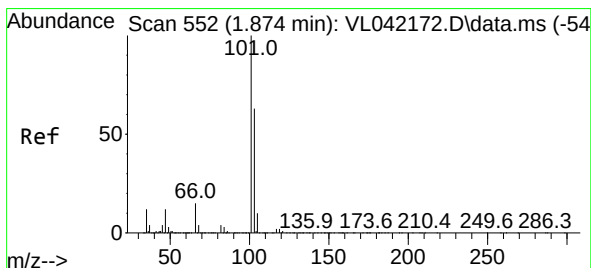
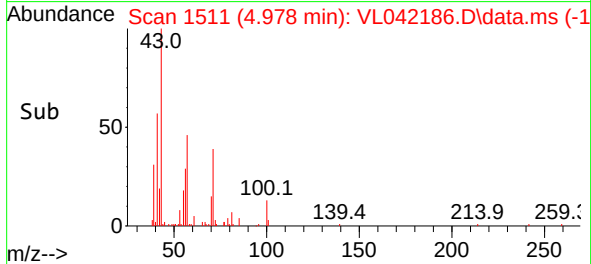
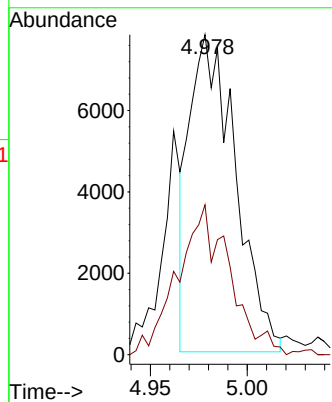
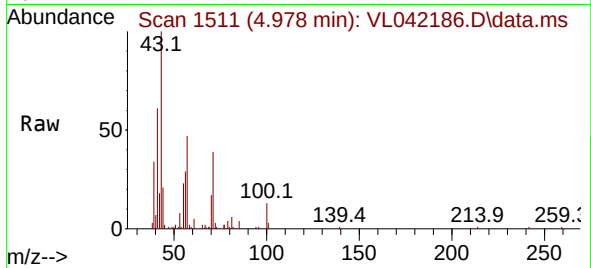




#10  
Heptane  
Concen: 0.372 ppbv  
RT: 4.978 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

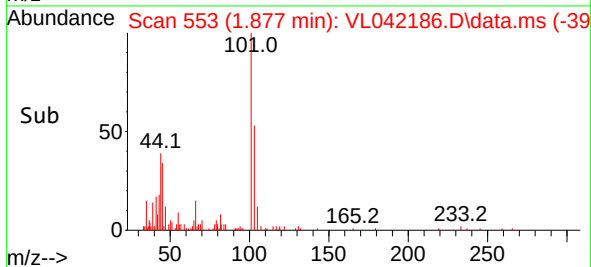
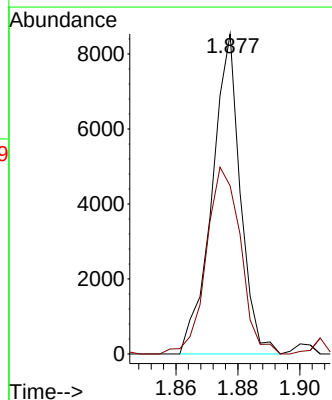
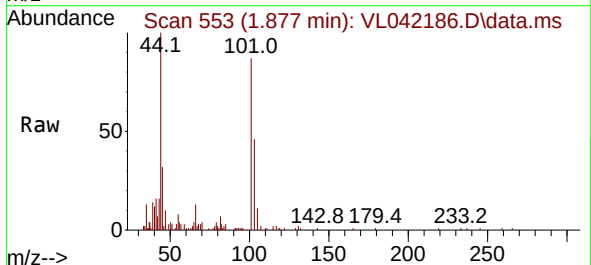
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

Tgt Ion: 43 Resp: 12851  
Ion Ratio Lower Upper  
43 100  
57 54.3 39.4 59.2

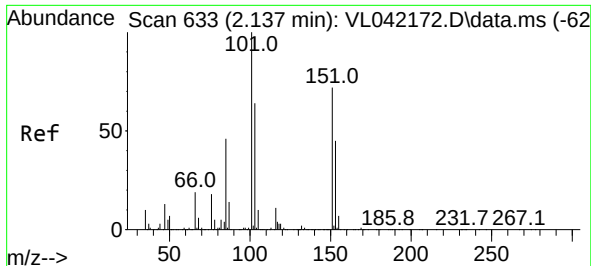


#11  
Trichlorofluoromethane  
Concen: 0.201 ppbv  
RT: 1.877 min Scan# 553  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 101 Resp: 5432  
Ion Ratio Lower Upper  
101 100  
103 52.5 50.2 75.2



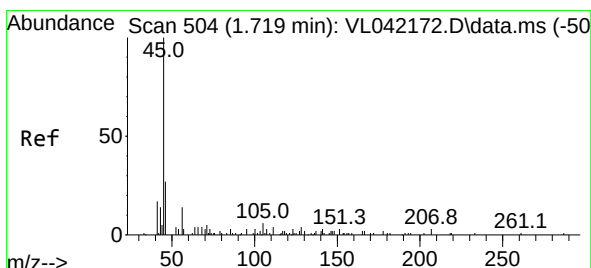
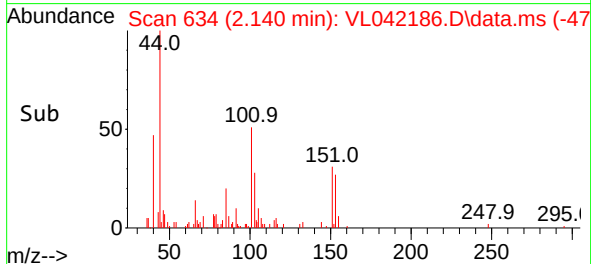
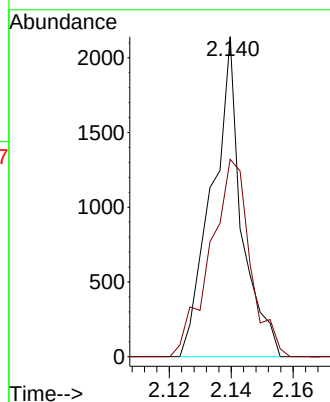
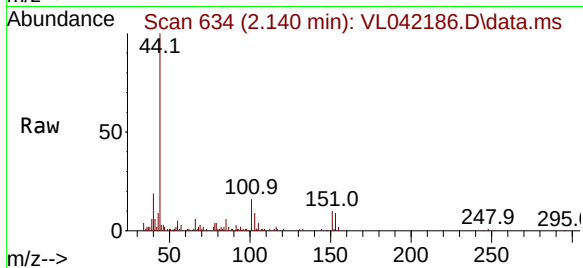




#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.064 ppbv  
 RT: 2.140 min Scan# 611  
 Delta R.T. 0.003 min  
 Lab File: VL042186.D  
 Acq: 27 Mar 2025 18:59

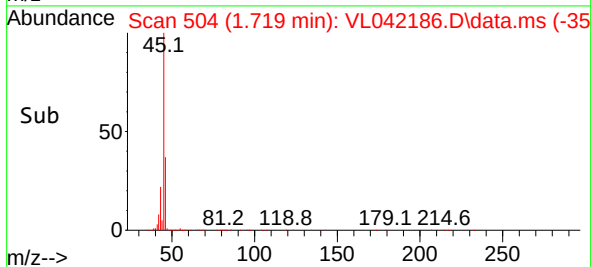
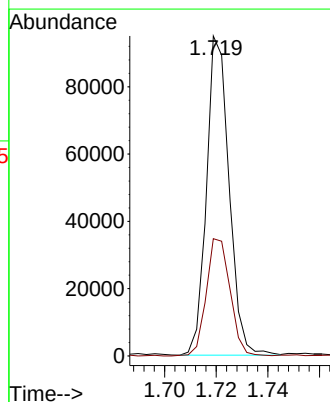
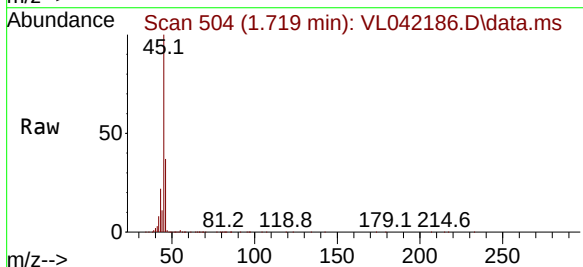
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 IA-B9-2-3262025

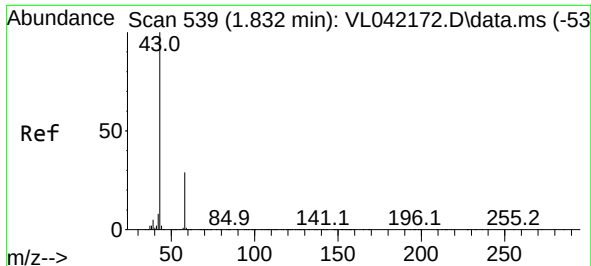
Tgt Ion:101 Resp: 1424  
 Ion Ratio Lower Upper  
 101 100  
 151 83.1 57.1 85.7



#13  
 Ethanol  
 Concen: 46.985 ppbv  
 RT: 1.719 min Scan# 504  
 Delta R.T. -0.000 min  
 Lab File: VL042186.D  
 Acq: 27 Mar 2025 18:59

Tgt Ion: 45 Resp: 57647  
 Ion Ratio Lower Upper  
 45 100  
 46 39.0 20.2 80.8

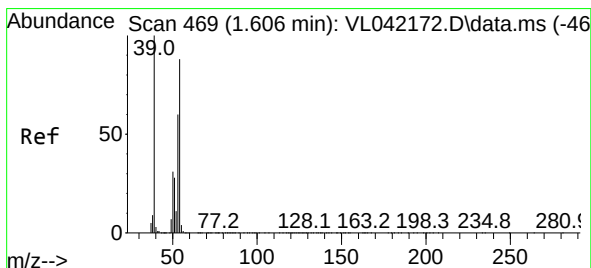
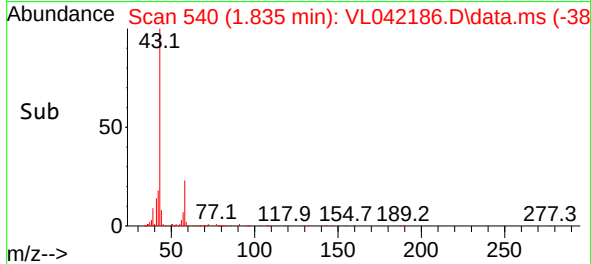
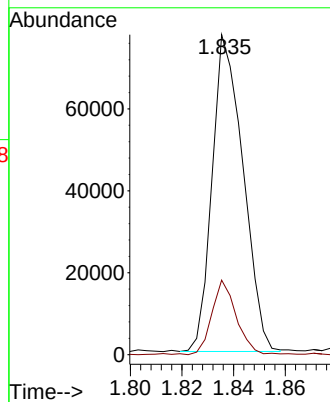
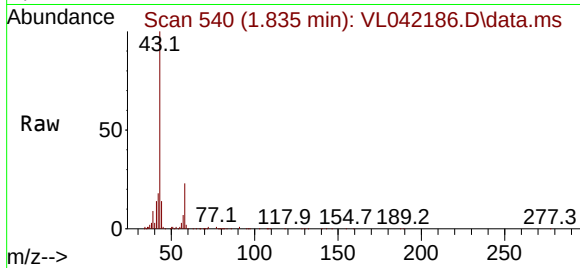




#15  
Acetone  
Concen: 2.447 ppbv  
RT: 1.835 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

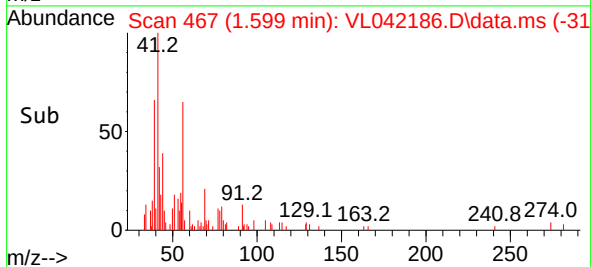
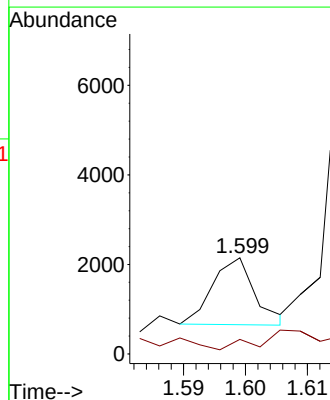
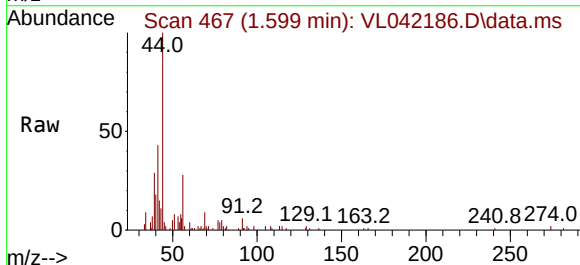
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

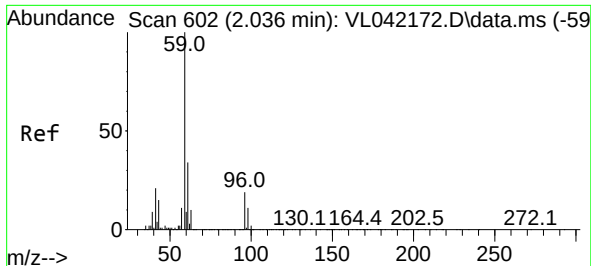
Tgt Ion: 43 Resp: 64251  
Ion Ratio Lower Upper  
43 100  
58 19.2 23.2 34.8#



#16  
1,3-Butadiene  
Concen: 0.055 ppbv  
RT: 1.599 min Scan# 467  
Delta R.T. -0.007 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 39 Resp: 710  
Ion Ratio Lower Upper  
39 100  
54 91.3 60.7 91.1#

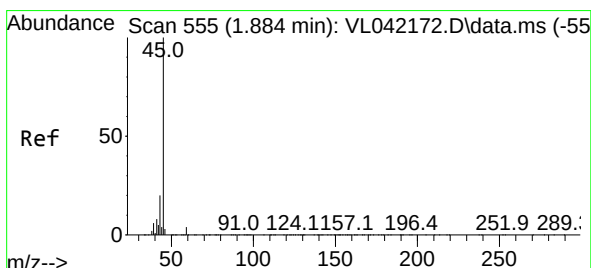
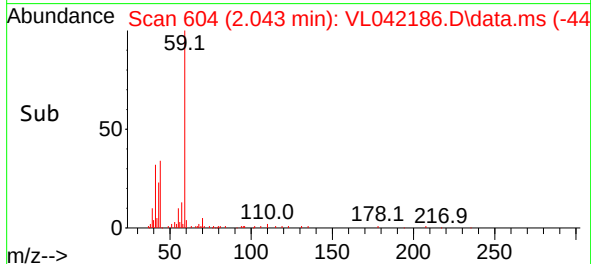
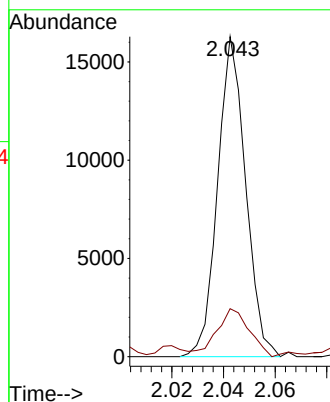
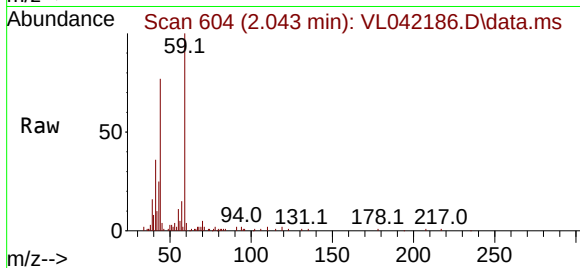




#17  
tert-Butyl alcohol  
Concen: 0.375 ppbv  
RT: 2.043 min Scan# 602  
Delta R.T. 0.006 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

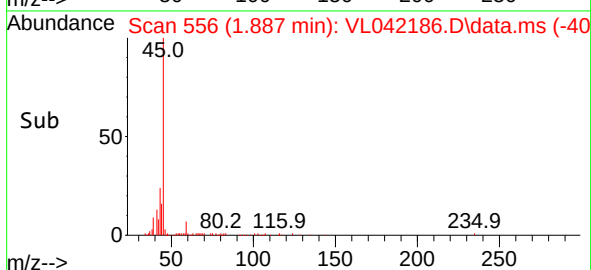
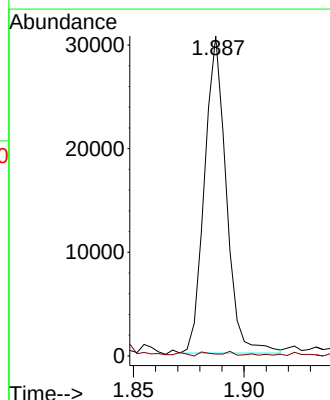
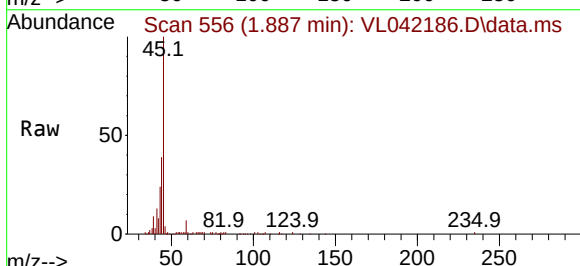
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA-B9-2-3262025

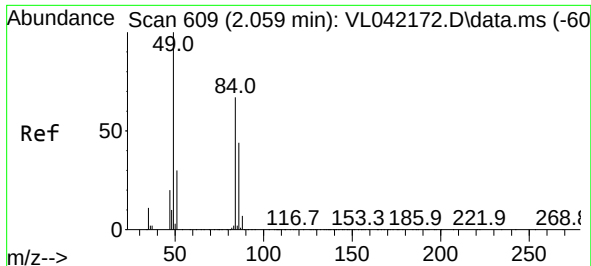
Tgt Ion: 59 Resp: 12249  
Ion Ratio Lower Upper  
59 100  
57 17.6 8.9 13.3#



#19  
Isopropyl Alcohol  
Concen: 1.411 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 45 Resp: 20907  
Ion Ratio Lower Upper  
45 100  
58 58.1 36.9 55.3#

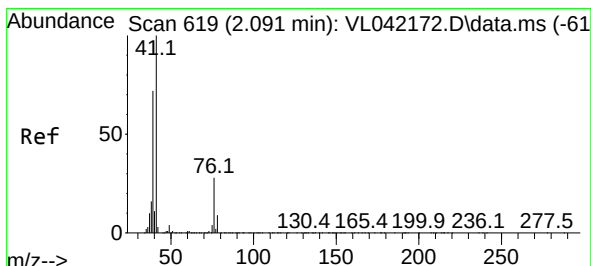
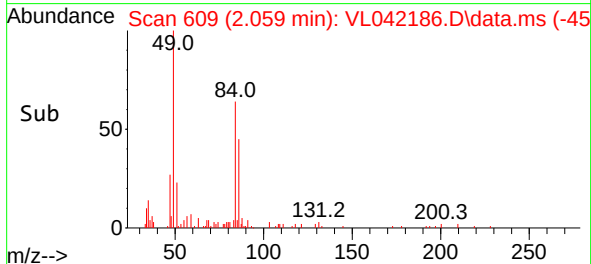
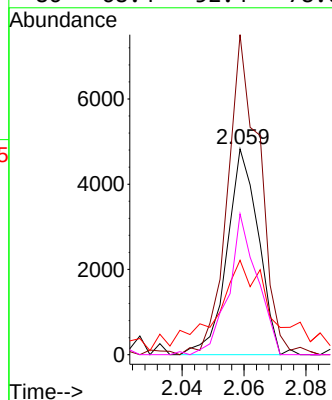
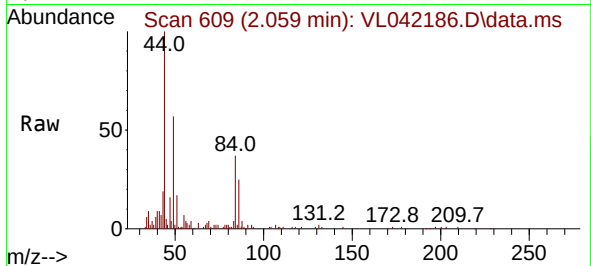




#20  
Methylene Chloride  
Concen: 0.345 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

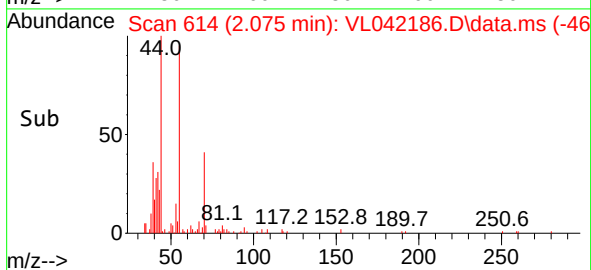
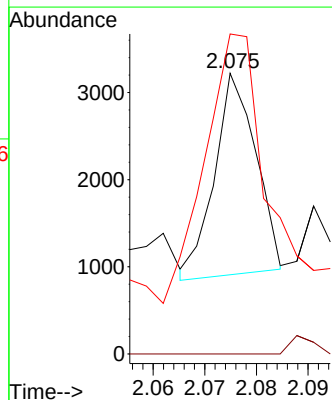
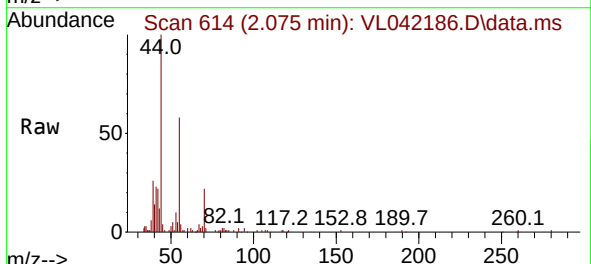
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA-B9-2-3262025

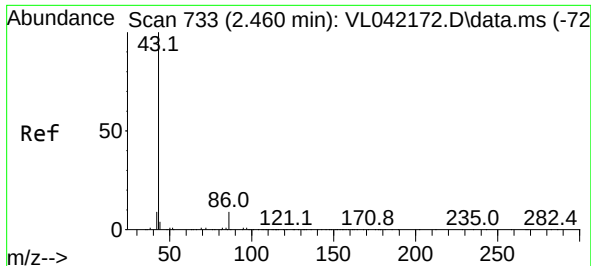
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 3376  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 161.5 | 120.2 | 180.4 |
| 51       | 34.0  | 37.4  | 56.0# |
| 86       | 68.4  | 52.4  | 78.6  |



#21  
Allyl Chloride  
Concen: 0.070 ppbv  
RT: 2.075 min Scan# 614  
Delta R.T. -0.016 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 1290  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 5.2   | 24.1  | 36.1# |
| 39       | 242.2 | 61.1  | 91.7# |

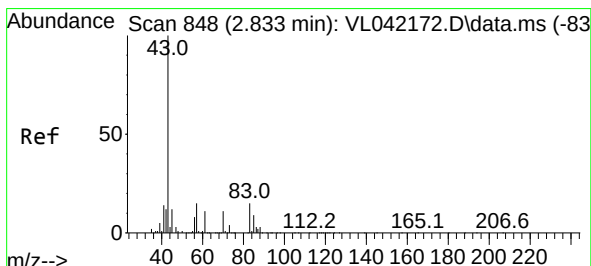
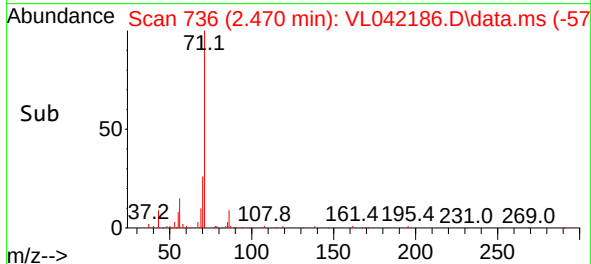
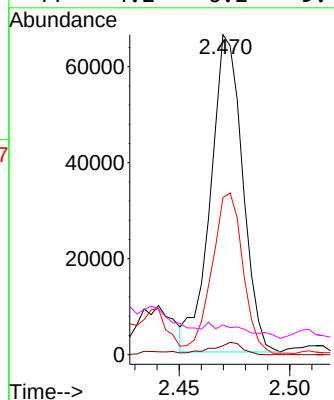
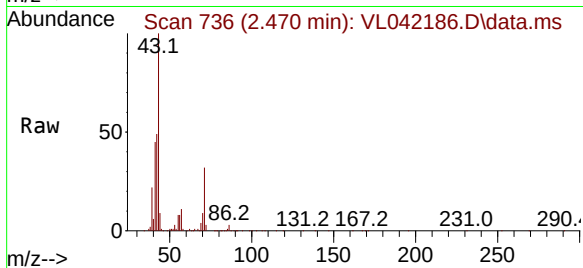




#23  
 Vinyl Acetate  
 Concen: 5.855 ppbv  
 RT: 2.470 min Scan# 71  
 Delta R.T. 0.009 min  
 Lab File: VL042186.D  
 Acq: 27 Mar 2025 18:59

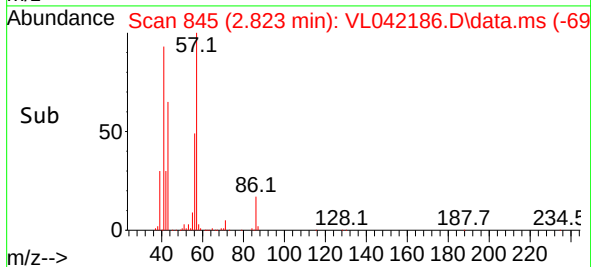
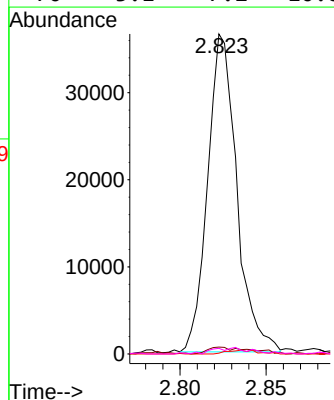
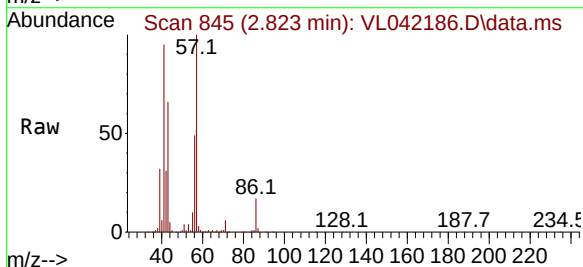
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 IA-B9-2-3262025

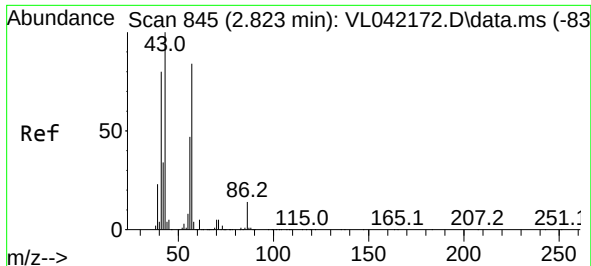
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 66536 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 2.8   | 5.5   | 8.3#  |
| 42       | 49.0  | 8.6   | 13.0# |
| 44       | 4.2   | 6.2   | 9.4#  |



#25  
 Ethyl Acetate  
 Concen: 0.630 ppbv  
 RT: 2.823 min Scan# 845  
 Delta R.T. -0.010 min  
 Lab File: VL042186.D  
 Acq: 27 Mar 2025 18:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 42904 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 2.7   | 8.2   | 12.2# |
| 61       | 1.3   | 7.3   | 10.9# |
| 70       | 3.1   | 7.2   | 10.8# |

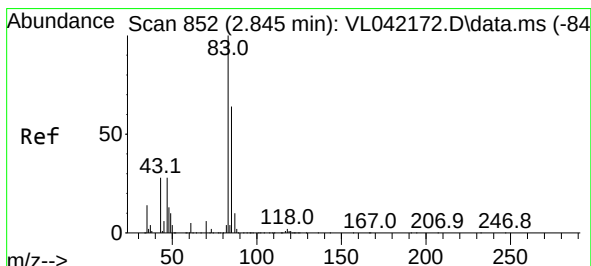
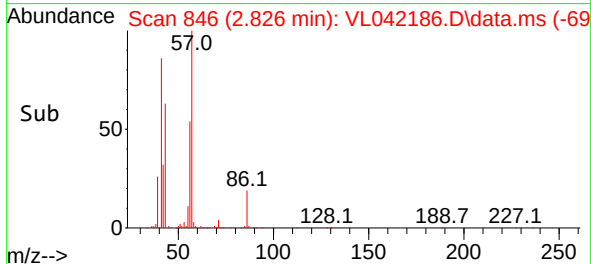
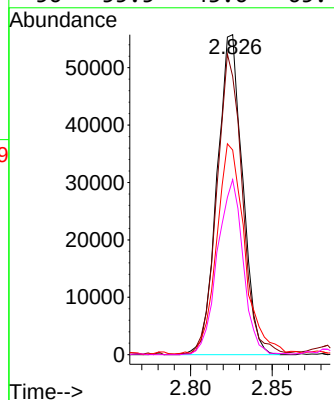
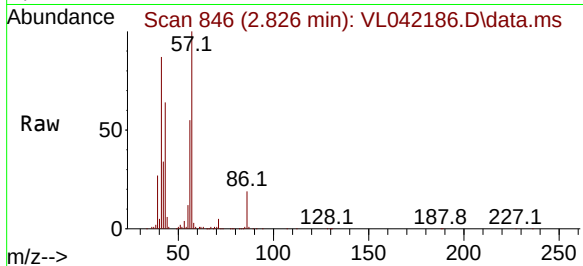




#26  
Hexane  
Concen: 2.294 ppbv  
RT: 2.826 min Scan# 845  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

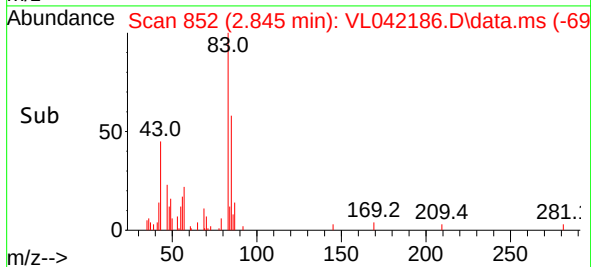
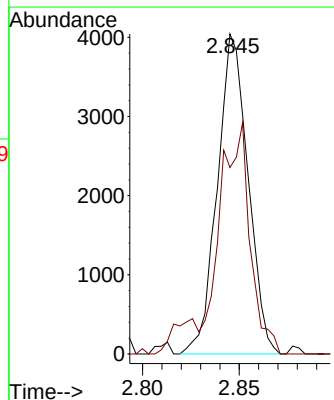
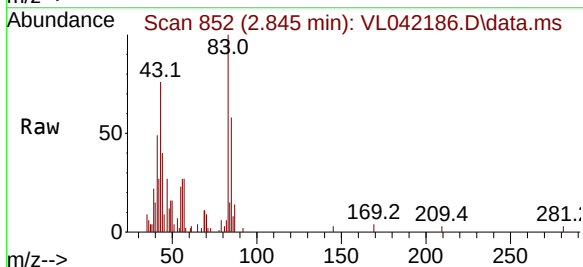
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

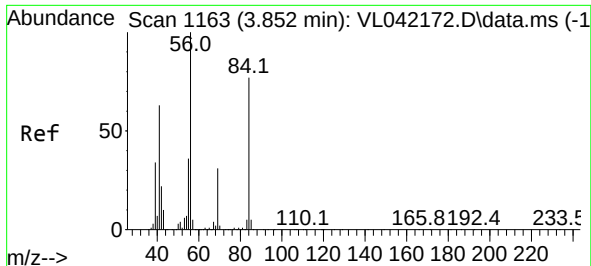
Tgt Ion: 57 Resp: 60389  
Ion Ratio Lower Upper  
57 100  
41 94.6 76.6 114.8  
43 73.8 207.8 311.8#  
56 55.5 43.6 65.4



#29  
Chloroform  
Concen: 0.116 ppbv  
RT: 2.845 min Scan# 852  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 83 Resp: 4455  
Ion Ratio Lower Upper  
83 100  
85 58.3 51.4 77.2

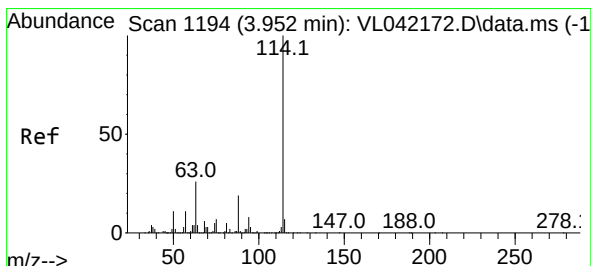
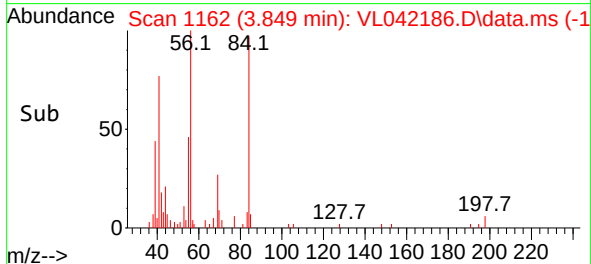
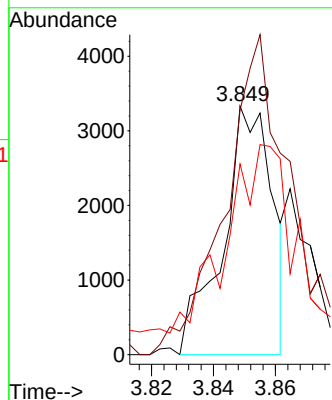
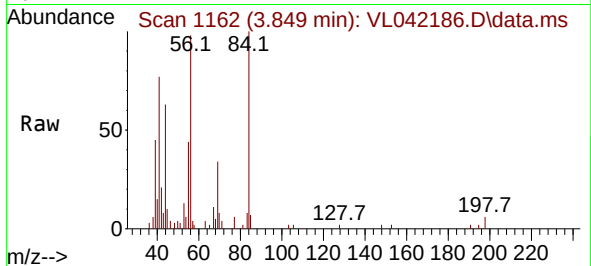




#30  
Cyclohexane  
Concen: 0.161 ppbv  
RT: 3.849 min Scan# 1162  
Delta R.T. -0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

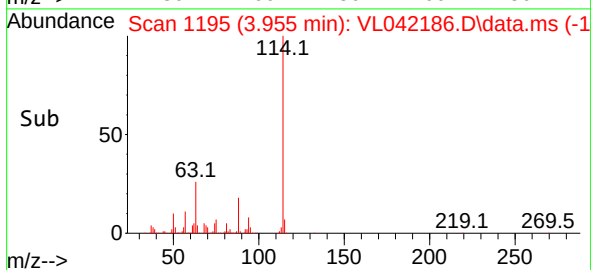
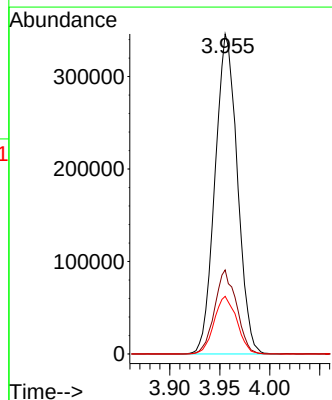
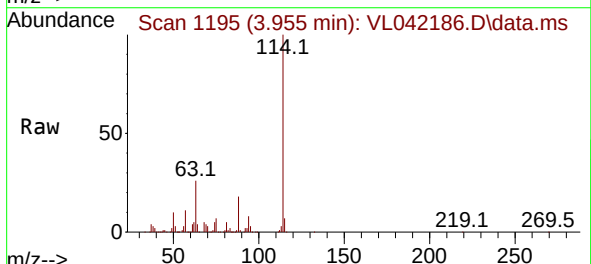
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

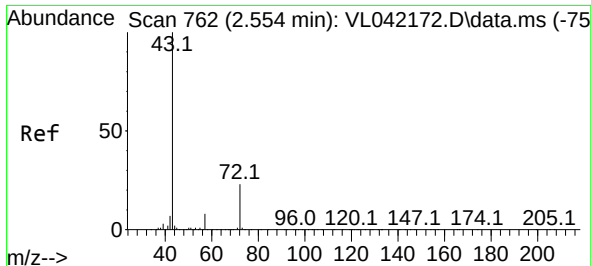
Tgt Ion: 84 Resp: 3691  
Ion Ratio Lower Upper  
84 100  
56 174.5 102.8 154.2#  
41 123.8 66.5 99.7#



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.955 min Scan# 1195  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 114 Resp: 538422  
Ion Ratio Lower Upper  
114 100  
63 25.7 20.7 31.1  
88 18.3 15.0 22.4

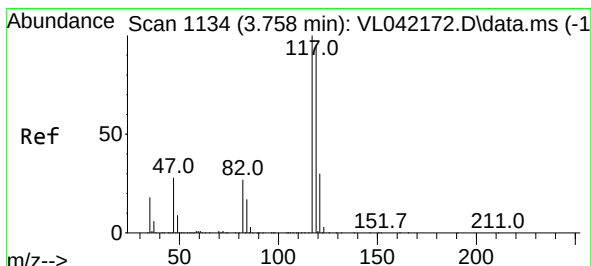
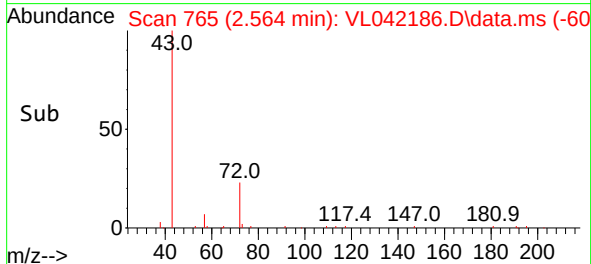
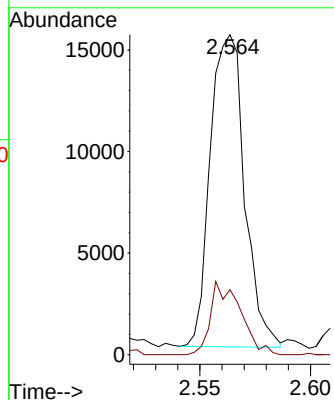
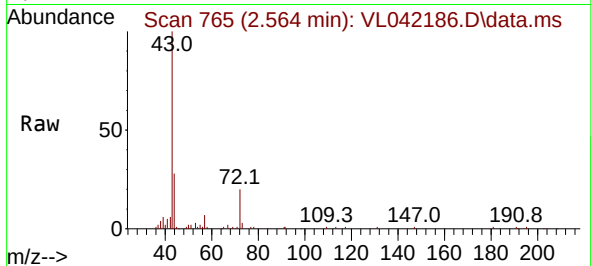




#34  
2-Butanone  
Concen: 0.424 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.009 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

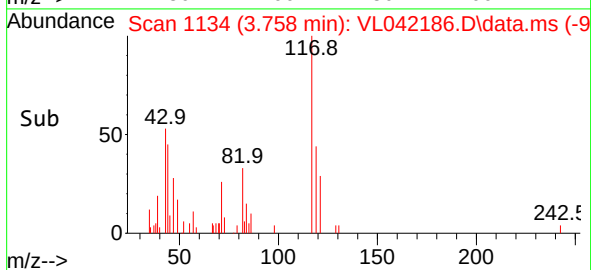
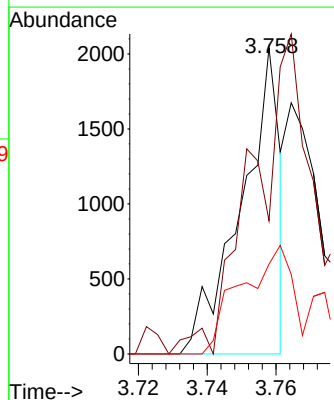
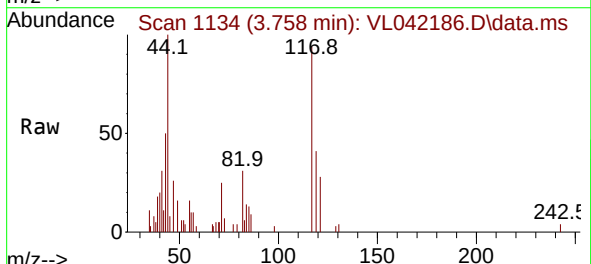
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

Tgt Ion: 43 Resp: 16547  
Ion Ratio Lower Upper  
43 100  
72 20.6 18.2 27.2

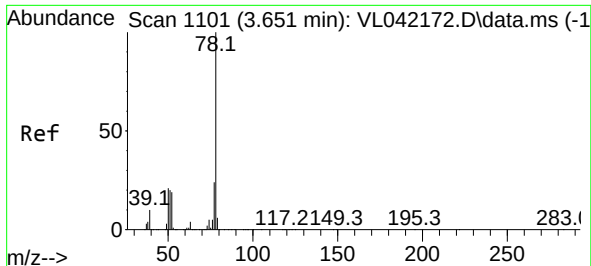


#35  
Carbon Tetrachloride  
Concen: 0.038 ppbv  
RT: 3.758 min Scan# 1134  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 117 Resp: 1590  
Ion Ratio Lower Upper  
117 100  
119 39.0 76.2 114.2#  
121 29.3 24.2 36.4



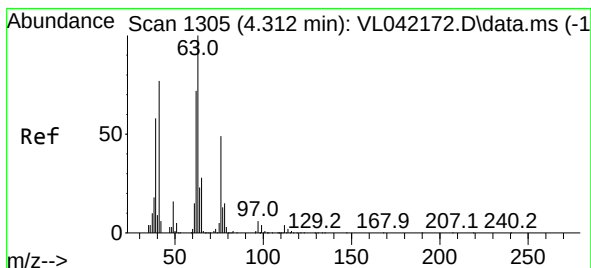
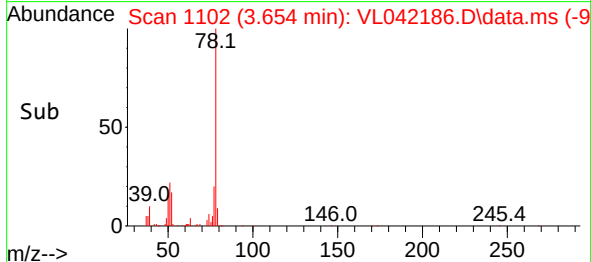
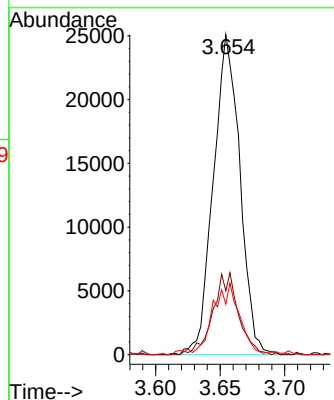
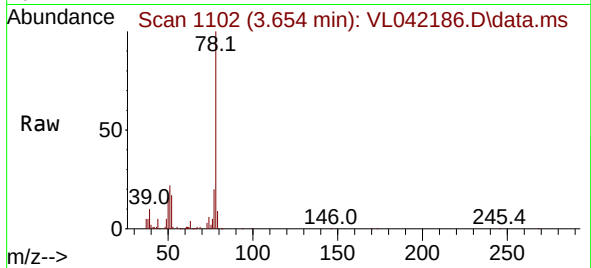




#36  
Benzene  
Concen: 0.672 ppbv  
RT: 3.654 min Scan# 1102  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

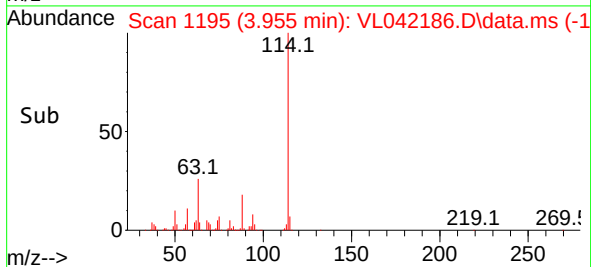
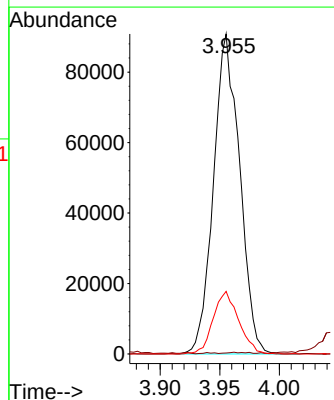
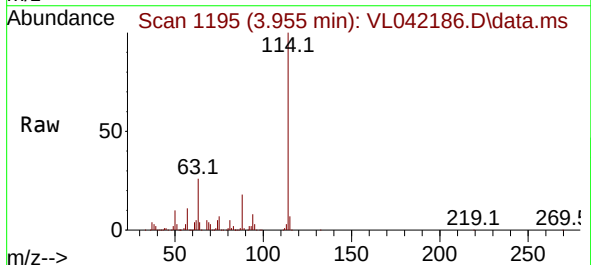
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

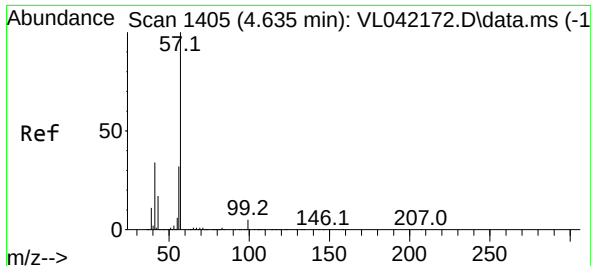
Tgt Ion: 78 Resp: 35891  
Ion Ratio Lower Upper  
78 100  
77 19.9 19.1 28.7  
50 15.3 16.6 24.8#



#39  
1,2-Dichloropropane  
Concen: 7.128 ppbv  
RT: 3.955 min Scan# 1195  
Delta R.T. -0.356 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 63 Resp: 138560  
Ion Ratio Lower Upper  
63 100  
41 0.0 61.7 92.5#  
62 19.6 57.6 86.4#

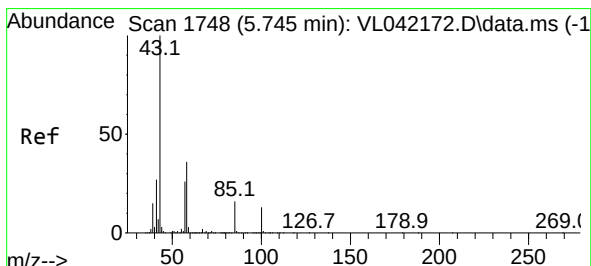
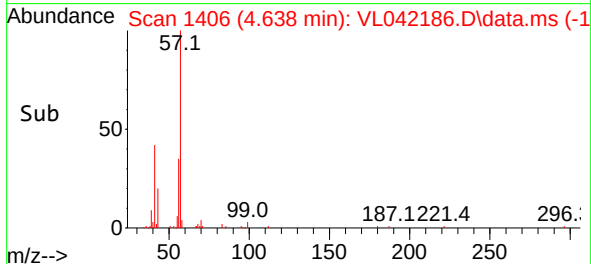
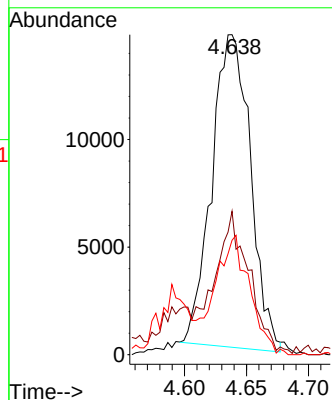
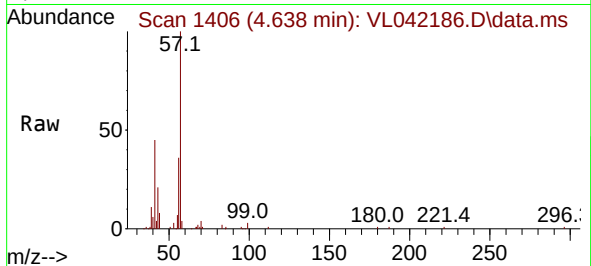




#44  
2,2,4-Trimethylpentane  
Concen: 0.350 ppbv  
RT: 4.638 min Scan# 1406  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

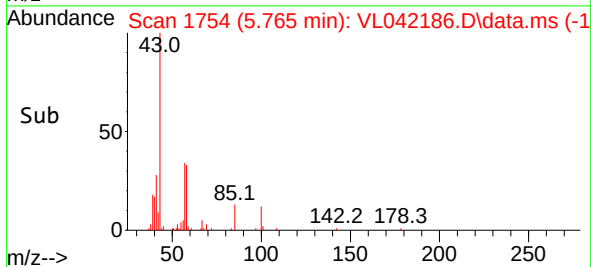
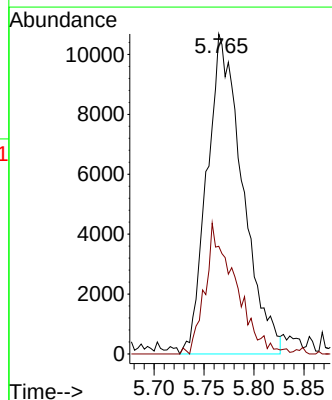
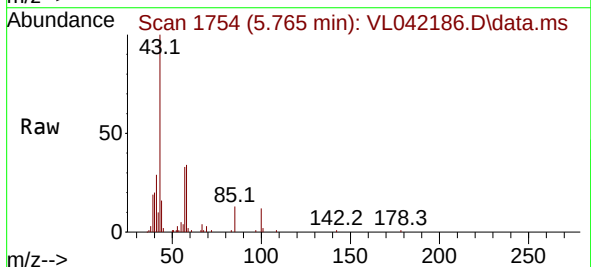
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA-B9-2-3262025

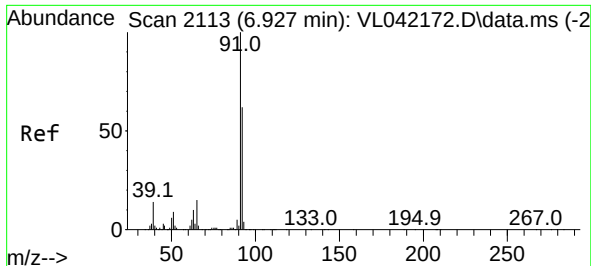
Tgt Ion: 57 Resp: 31601  
Ion Ratio Lower Upper  
57 100  
41 52.3 26.8 40.2#  
56 35.5 25.6 38.4



#50  
4-Methyl-2-Pentanone  
Concen: 0.427 ppbv  
RT: 5.765 min Scan# 1754  
Delta R.T. 0.019 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 43 Resp: 26447  
Ion Ratio Lower Upper  
43 100  
58 35.4 29.0 43.6

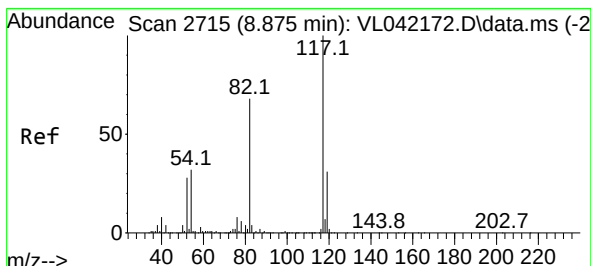
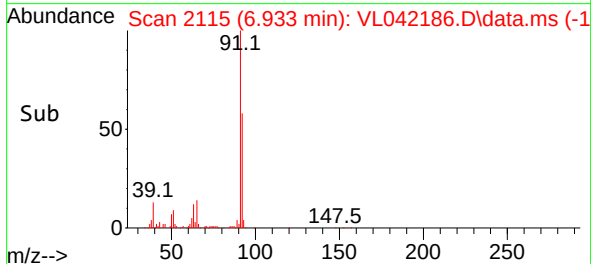
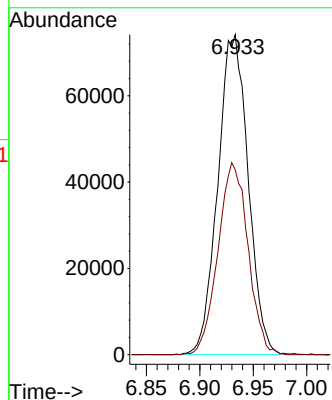
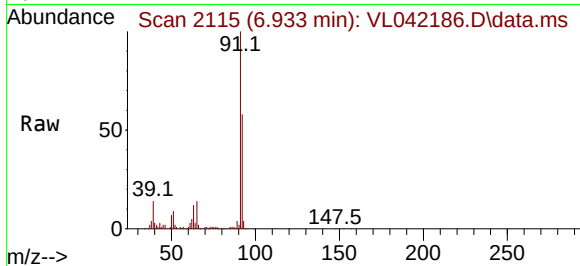




#53  
Toluene  
Concen: 2.312 ppbv  
RT: 6.933 min Scan# 2115  
Delta R.T. 0.006 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

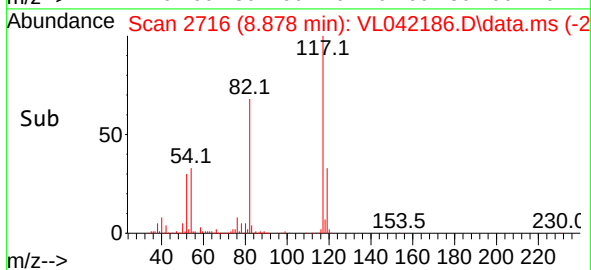
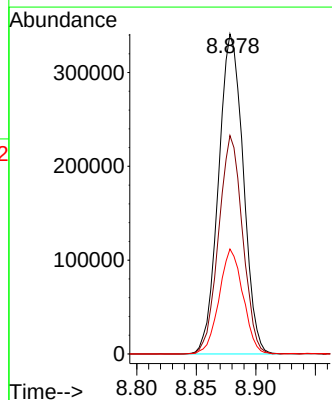
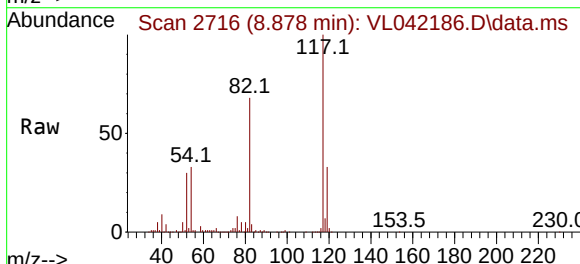
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

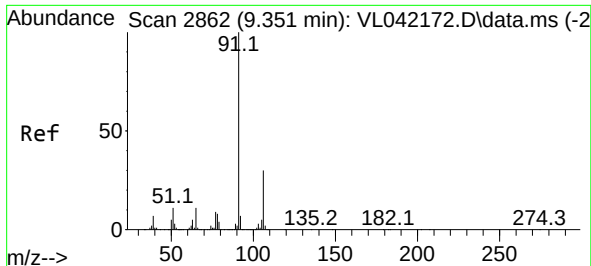
Tgt Ion: 91 Resp: 146301  
Ion Ratio Lower Upper  
91 100  
92 59.5 48.4 72.6



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 2716  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 117 Resp: 491411  
Ion Ratio Lower Upper  
117 100  
82 66.3 55.8 83.6  
119 31.8 25.5 38.3





#58

Ethyl Benzene

Concen: 0.388 ppbv

RT: 9.351 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL042186.D

Acq: 27 Mar 2025 18:59

Instrument :

MSVOA\_L

ClientSampleId :

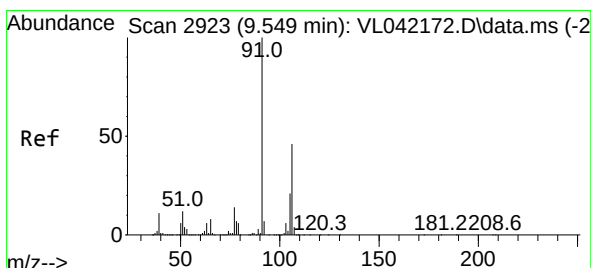
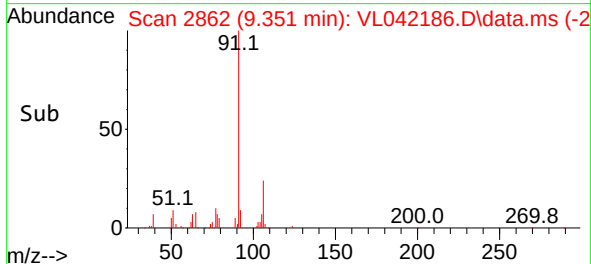
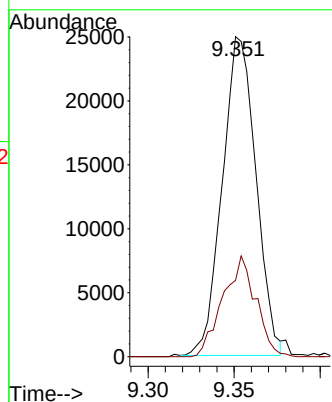
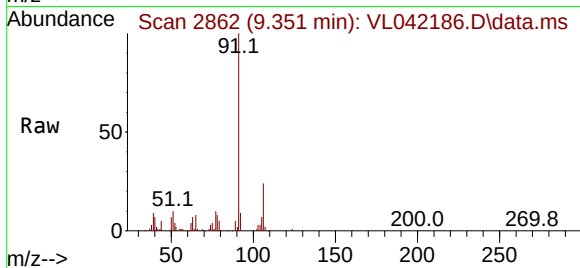
IA-B9-2-3262025

Tgt Ion: 91 Resp: 33902

Ion Ratio Lower Upper

91 100

106 24.0 24.2 36.2#



#59

m/p-Xylene

Concen: 1.387 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.016 min

Lab File: VL042186.D

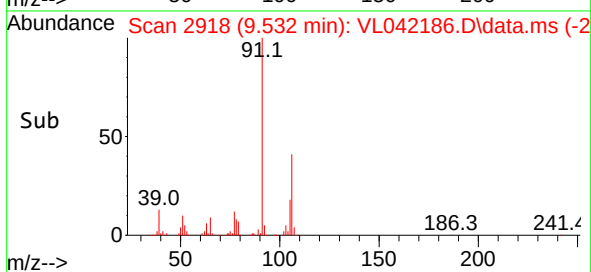
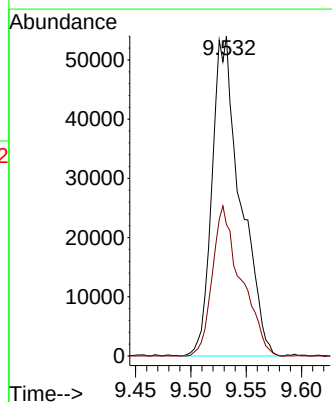
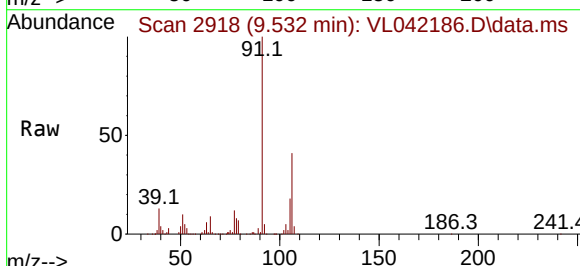
Acq: 27 Mar 2025 18:59

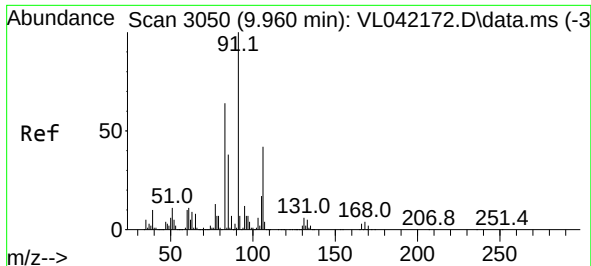
Tgt Ion: 91 Resp: 96658

Ion Ratio Lower Upper

91 100

106 47.3 36.4 54.6

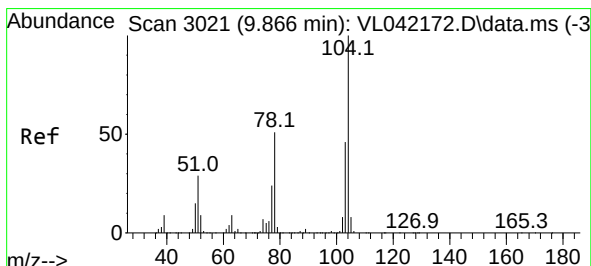
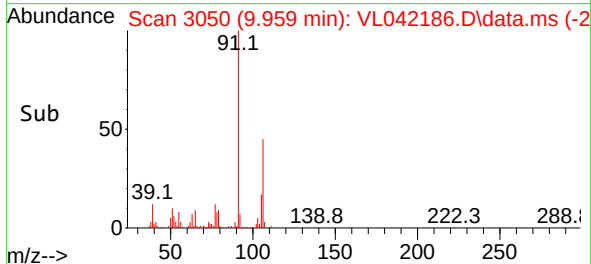
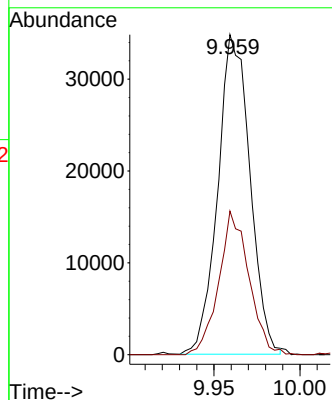
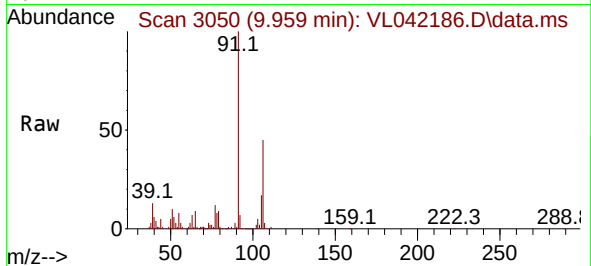




#60  
o-Xylene  
Concen: 0.647 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

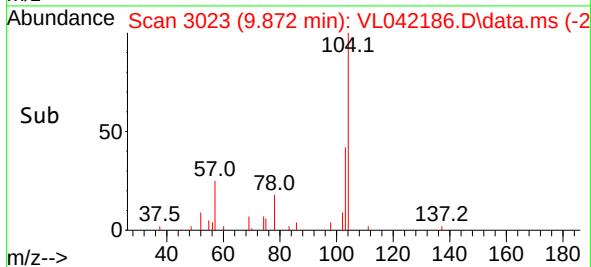
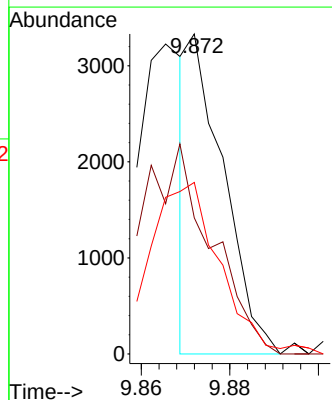
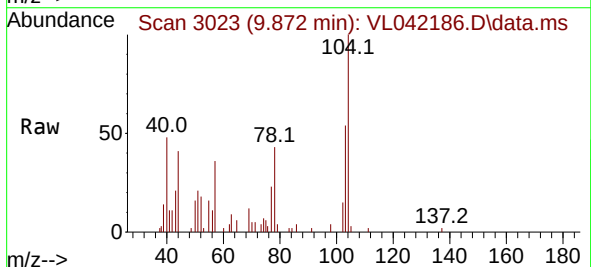
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA-B9-2-3262025

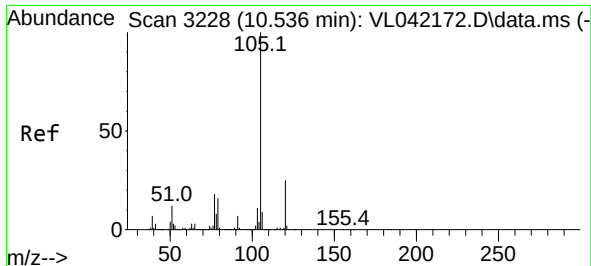
Tgt Ion: 91 Resp: 45203  
Ion Ratio Lower Upper  
91 100  
106 42.1 20.8 62.5



#61  
Styrene  
Concen: 0.054 ppbv  
RT: 9.872 min Scan# 3023  
Delta R.T. 0.006 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 104 Resp: 1858  
Ion Ratio Lower Upper  
104 100  
78 132.3 41.8 62.6#  
103 122.3 37.0 55.4#

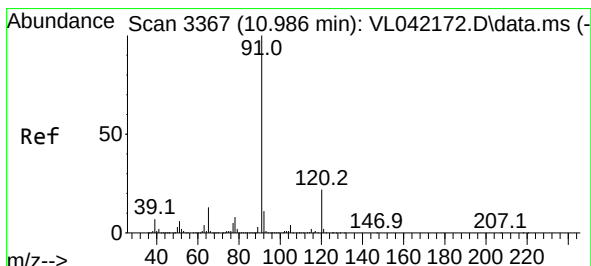
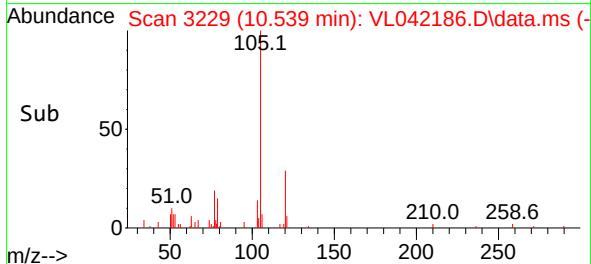
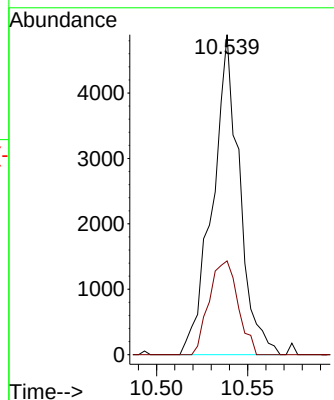
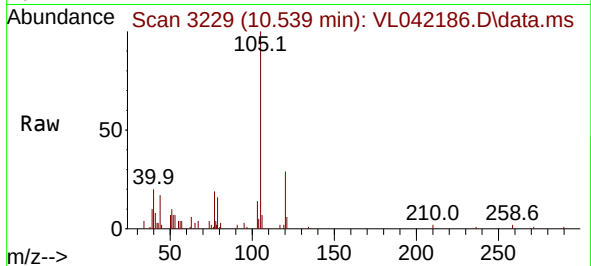




#62  
Isopropylbenzene  
Concen: 0.048 ppbv  
RT: 10.539 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

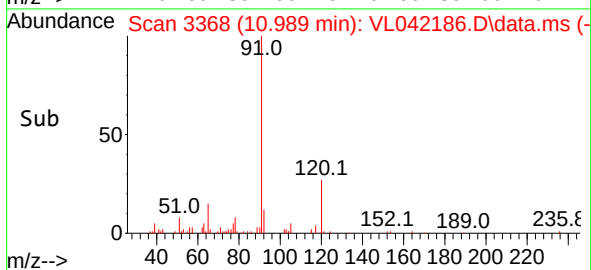
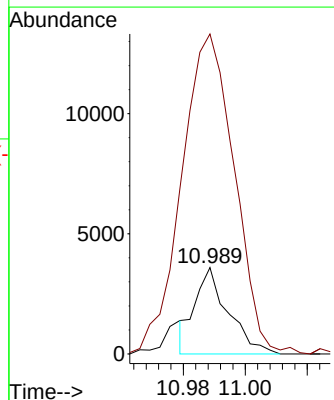
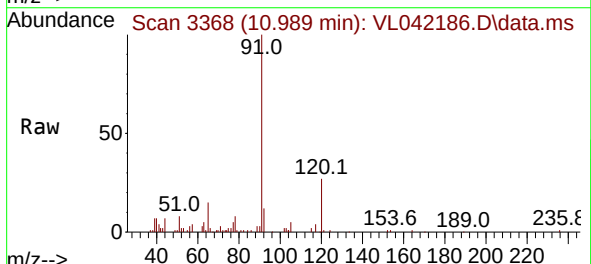
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

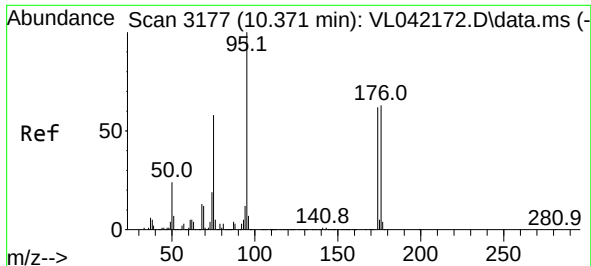
Tgt Ion:105 Resp: 5047  
Ion Ratio Lower Upper  
105 100  
120 31.1 19.9 29.9#



#64  
n-propylbenzene  
Concen: 0.099 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion:120 Resp: 2657  
Ion Ratio Lower Upper  
120 100  
91 599.4 376.9 565.3#

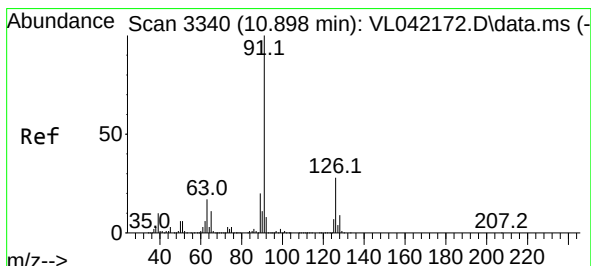
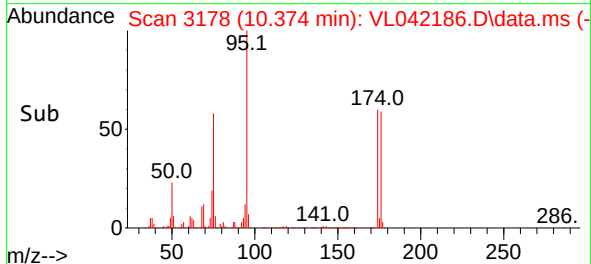
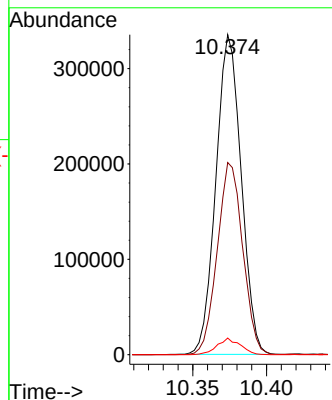
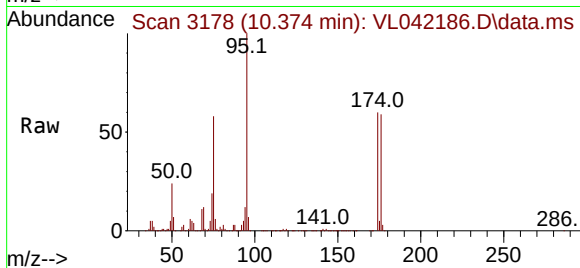




#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.915 ppbv  
RT: 10.374 min Scan# 3177  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

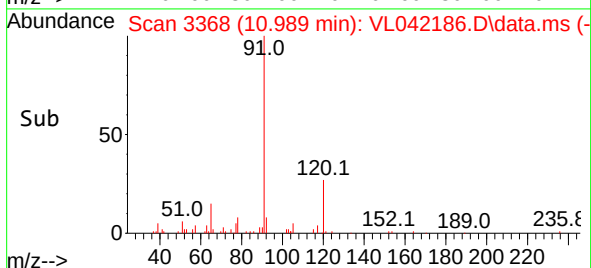
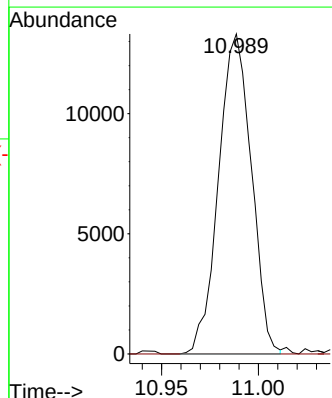
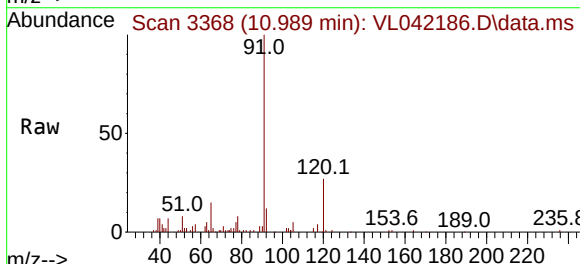
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA-B9-2-3262025

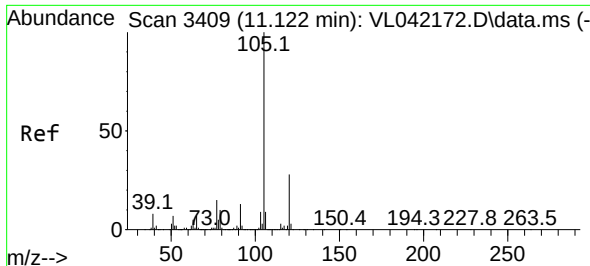
Tgt Ion: 95 Resp: 400118  
Ion Ratio Lower Upper  
95 100  
174 60.8 50.6 76.0  
175 4.7 3.8 5.6



#71  
2-Chlorotoluene  
Concen: 0.194 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. 0.090 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

Tgt Ion: 91 Resp: 15693  
Ion Ratio Lower Upper  
91 100  
126 0.2 11.6 46.4#

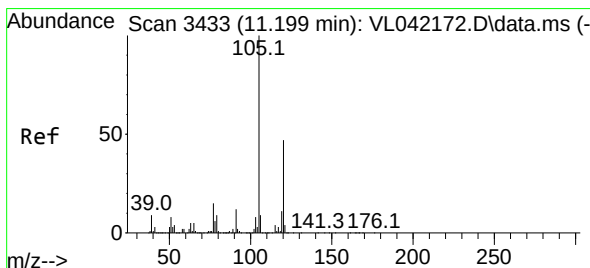
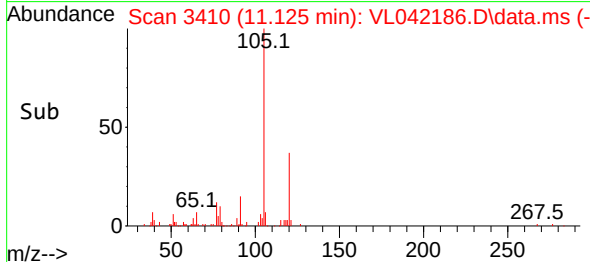
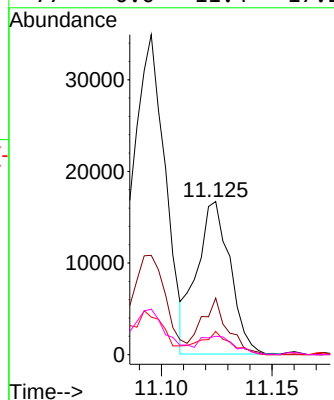
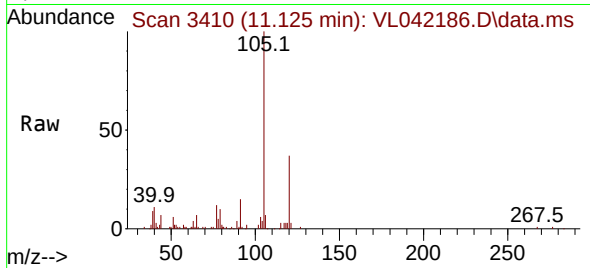




#72  
4-Ethyltoluene  
Concen: 0.201 ppbv  
RT: 11.125 min Scan# 3409  
Delta R.T. 0.003 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

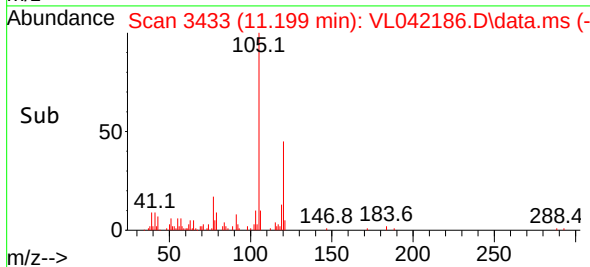
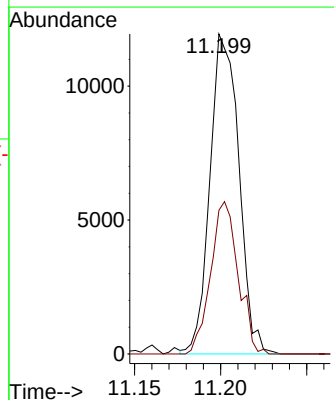
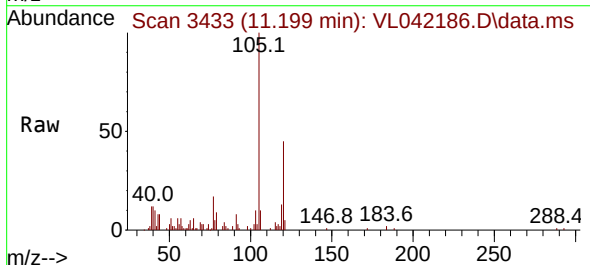
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-2-3262025

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 17501 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 0.0   | 23.4  | 35.0# |
| 91        | 0.0   | 10.3  | 15.5# |
| 77        | 0.0   | 11.4  | 17.2# |

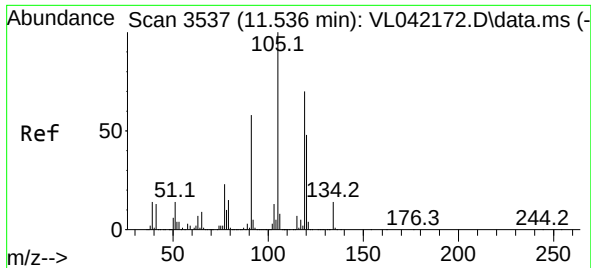


#73  
1,3,5-Trimethylbenzene  
Concen: 0.184 ppbv  
RT: 11.199 min Scan# 3433  
Delta R.T. -0.000 min  
Lab File: VL042186.D  
Acq: 27 Mar 2025 18:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 13983 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 44.9  | 37.4  | 56.0  |

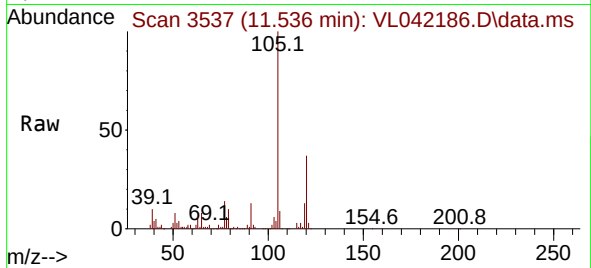




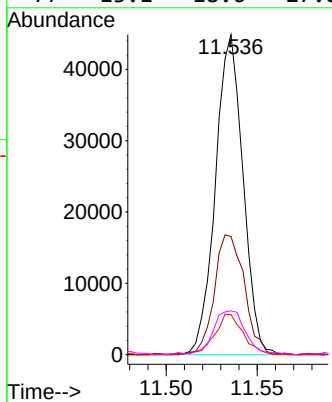
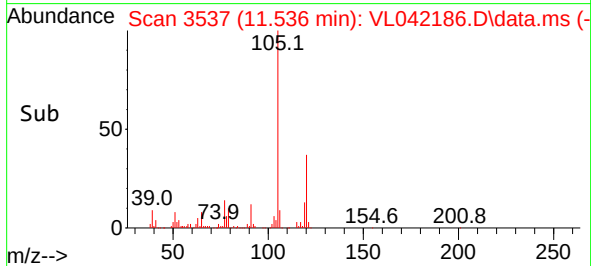


#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.539 ppbv  
 RT: 11.536 min Scan# 31  
 Delta R.T. -0.000 min  
 Lab File: VL042186.D  
 Acq: 27 Mar 2025 18:59

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-2-3262025



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 47154 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 36.7  | 38.6  | 58.0# |
| 91       | 12.5  | 46.2  | 69.2# |
| 77       | 13.1  | 18.6  | 27.8# |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042187.D  
 Acq On : 27 Mar 2025 19:36  
 Operator : SY/MD  
 Sample : Q1669-03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-1-3262025

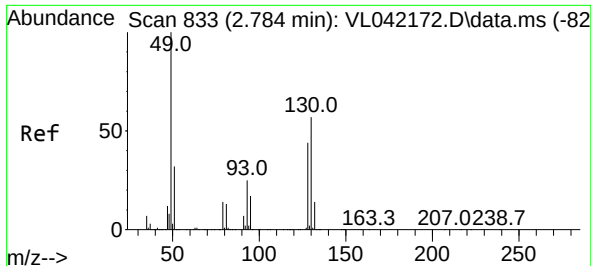
Quant Time: Mar 28 02:16:07 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.784  | 49    | 185410   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.955  | 114   | 523694   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.878  | 117   | 484321   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.374 | 95    | 389805   | 9.801    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 98.000%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.495  | 85    | 10428    | 0.381    | ppbv   | 96       |
| 3) Chlorodifluoromethane      | 1.473  | 51    | 9747     | 0.349    | ppbv   | 97       |
| 4) Chloromethane              | 1.528  | 50    | 2809     | 0.251    | ppbv # | 86       |
| 6) Bromomethane               | 1.657  | 94    | 186      | 0.037    | ppbv # | 4        |
| 7) Chloroethane               | 1.703  | 64    | 596      | 0.133    | ppbv # | 85       |
| 9) Propene                    | 1.486  | 41    | 7879     | 0.615    | ppbv   | 84       |
| 10) Heptane                   | 4.972  | 43    | 7577     | 0.222    | ppbv # | 37       |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 5528     | 0.208    | ppbv   | 96       |
| 12) 1,1,2-Trichlorotrifluo... | 2.133  | 101   | 1407     | 0.064    | ppbv   | 98       |
| 13) Ethanol                   | 1.719  | 45    | 58391    | 48.187   | ppbv   | 80       |
| 15) Acetone                   | 1.835  | 43    | 82901    | 3.197    | ppbv # | 82       |
| 16) 1,3-Butadiene             | 1.599  | 39    | 1297     | 0.102    | ppbv # | 11       |
| 17) tert-Butyl alcohol        | 2.042  | 59    | 13650    | 0.423    | ppbv   | 95       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 11631    | 0.795    | ppbv # | 1        |
| 20) Methylene Chloride        | 2.059  | 84    | 7860     | 0.814    | ppbv # | 86       |
| 21) Allyl Chloride            | 2.078  | 41    | 2669     | 0.146    | ppbv # | 59       |
| 23) Vinyl Acetate             | 2.473  | 43    | 64181    | 5.719    | ppbv # | 50       |
| 25) Ethyl Acetate             | 2.822  | 43    | 41018    | 0.609    | ppbv # | 83       |
| 26) Hexane                    | 2.822  | 57    | 57580    | 2.215    | ppbv # | 34       |
| 29) Chloroform                | 2.845  | 83    | 1640     | 0.043    | ppbv   | 100      |
| 30) Cyclohexane               | 3.849  | 84    | 6200     | 0.275    | ppbv # | 87       |
| 34) 2-Butanone                | 2.560  | 43    | 20631    | 0.543    | ppbv   | 95       |
| 35) Carbon Tetrachloride      | 3.758  | 117   | 1881     | 0.046    | ppbv # | 82       |
| 36) Benzene                   | 3.651  | 78    | 38888    | 0.749    | ppbv   | 99       |
| 39) 1,2-Dichloropropane       | 3.955  | 63    | 138319   | 7.316    | ppbv # | 21       |
| 44) 2,2,4-Trimethylpentane    | 4.641  | 57    | 26219    | 0.299    | ppbv # | 77       |
| 50) 4-Methyl-2-Pentanone      | 5.761  | 43    | 44105    | 0.733    | ppbv   | 92       |
| 53) Toluene                   | 6.930  | 91    | 159613   | 2.593    | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.351  | 91    | 32819    | 0.381    | ppbv   | 93       |
| 59) m/p-Xylene                | 9.529  | 91    | 96052    | 1.398    | ppbv   | 100      |
| 60) o-Xylene                  | 9.959  | 91    | 38965    | 0.566    | ppbv   | 97       |
| 61) Styrene                   | 9.869  | 104   | 86112    | 2.528    | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.539 | 105   | 4633     | 0.045    | ppbv   | 96       |
| 64) n-propylbenzene           | 10.992 | 120   | 1218     | 0.046    | ppbv # | 1        |
| 65) tert-Butylbenzene         | 11.532 | 119   | 3977     | 0.042    | ppbv # | 62       |
| 72) 4-Ethyltoluene            | 11.124 | 105   | 10792    | 0.126    | ppbv # | 55       |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105   | 10875    | 0.145    | ppbv   | 92       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105   | 35817    | 0.415    | ppbv # | 66       |

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

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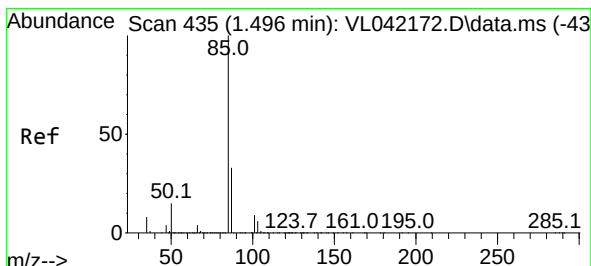
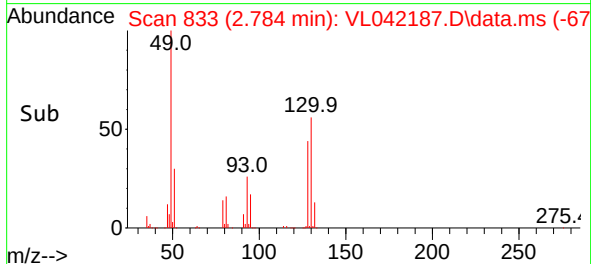
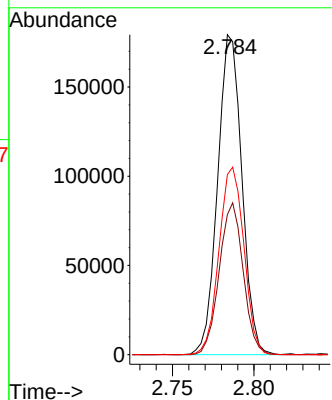
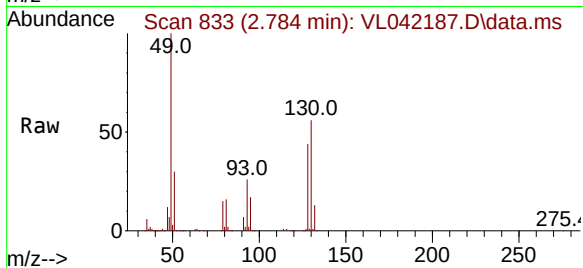
[illegible]



#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

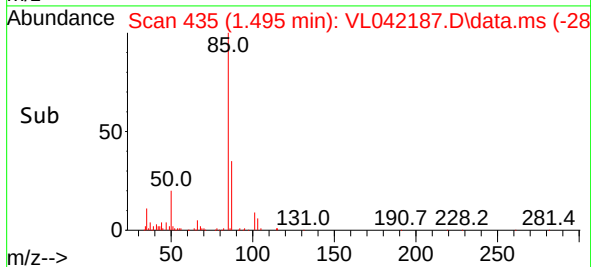
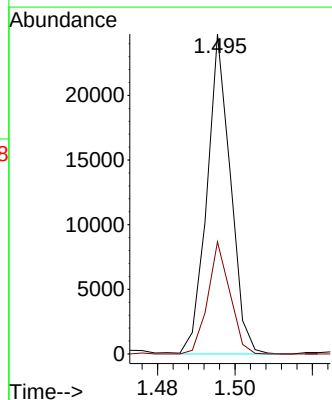
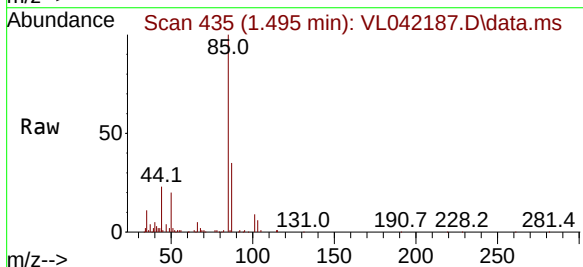
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

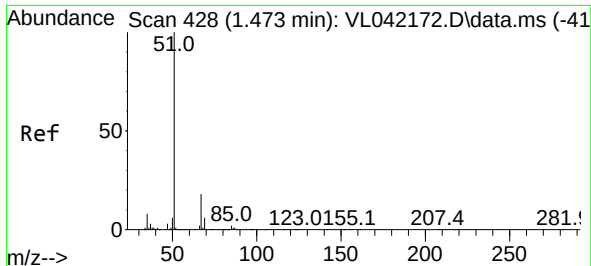
Tgt Ion: 49 Resp: 185410  
Ion Ratio Lower Upper  
49 100  
128 46.8 22.9 68.5  
130 60.2 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 0.381 ppbv  
RT: 1.495 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 85 Resp: 10428  
Ion Ratio Lower Upper  
85 100  
87 35.1 26.1 39.1

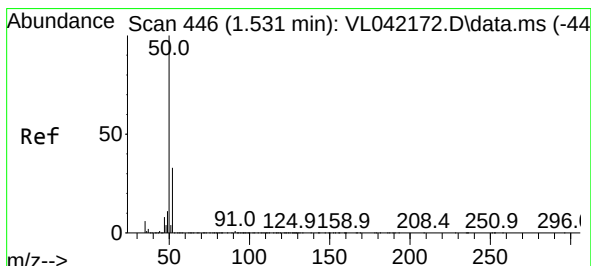
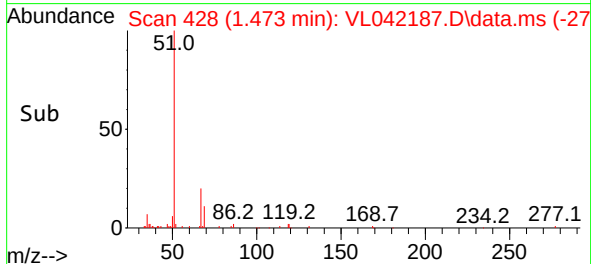
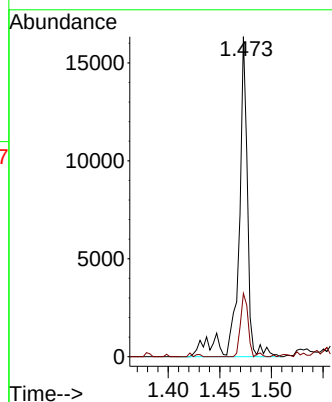
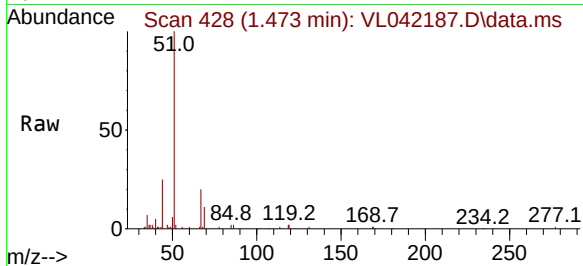




#3  
Chlorodifluoromethane  
Concen: 0.349 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

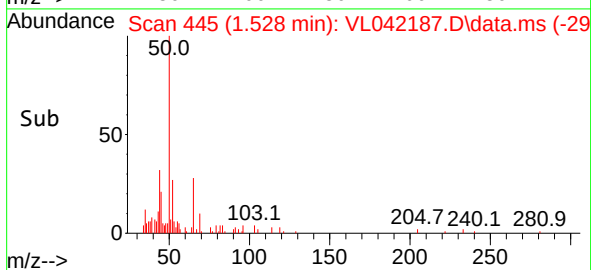
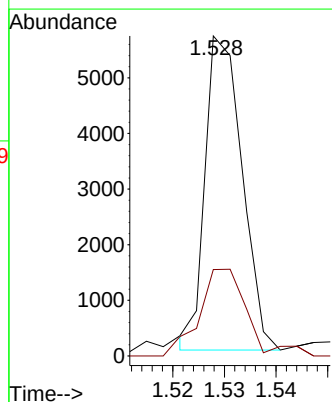
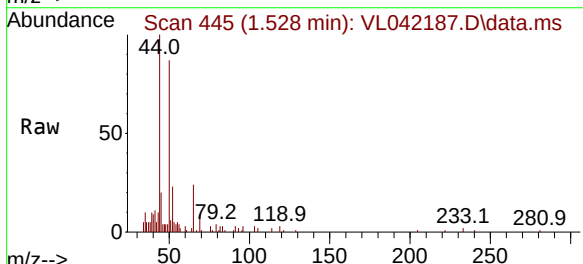
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IA-B9-1-3262025

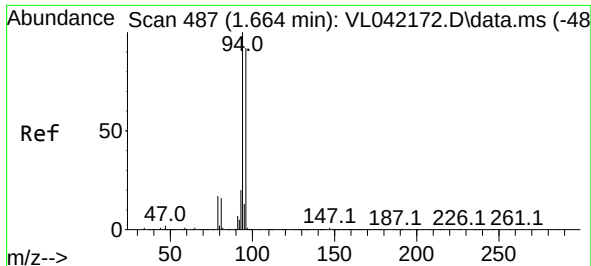
Tgt Ion: 51 Resp: 9747  
Ion Ratio Lower Upper  
51 100  
67 17.4 15.0 22.6



#4  
Chloromethane  
Concen: 0.251 ppbv  
RT: 1.528 min Scan# 445  
Delta R.T. -0.004 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 50 Resp: 2809  
Ion Ratio Lower Upper  
50 100  
52 24.5 26.1 39.1#

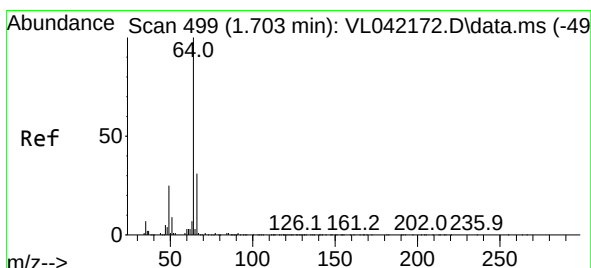
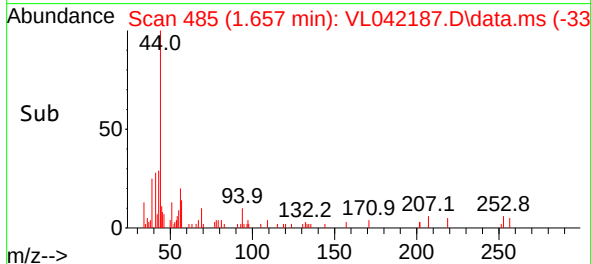
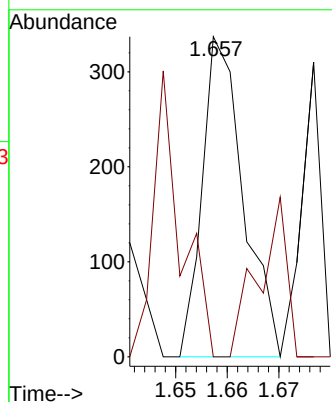
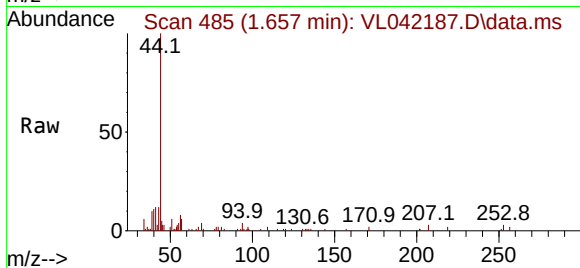




#6  
Bromomethane  
Concen: 0.037 ppbv  
RT: 1.657 min Scan# 41  
Delta R.T. -0.007 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

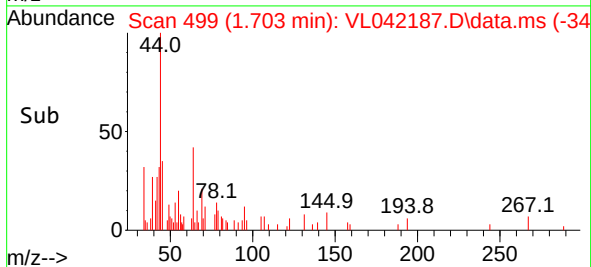
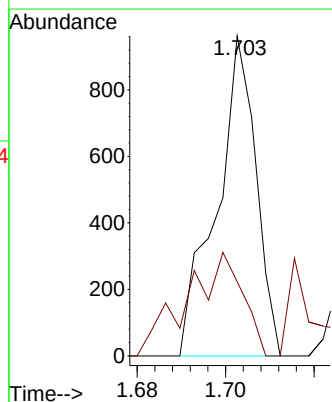
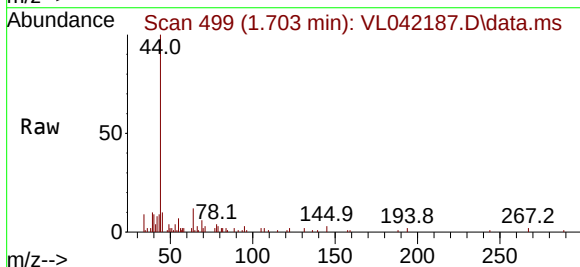
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IA-B9-1-3262025

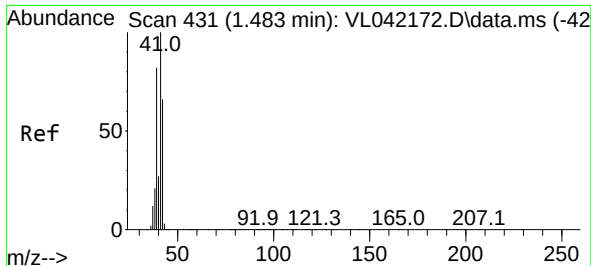
Tgt Ion: 94 Resp: 186  
Ion Ratio Lower Upper  
94 100  
96 0.0 73.1 109.7#



#7  
Chloroethane  
Concen: 0.133 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 64 Resp: 596  
Ion Ratio Lower Upper  
64 100  
66 23.2 25.2 37.8#

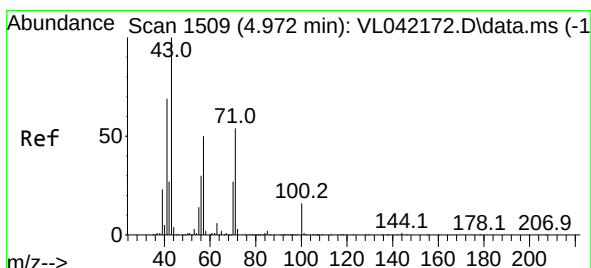
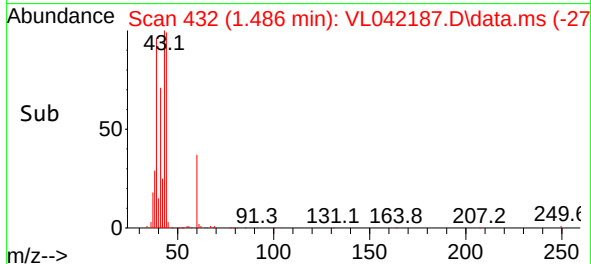
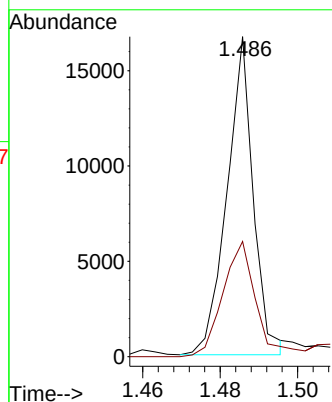
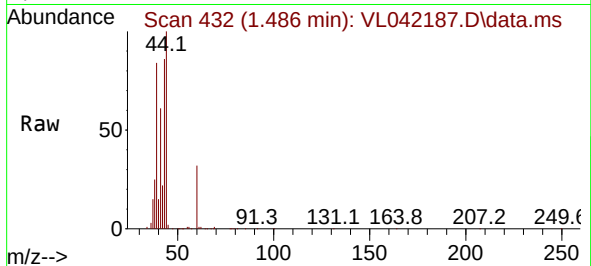




#9  
Propene  
Concen: 0.615 ppbv  
RT: 1.486 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

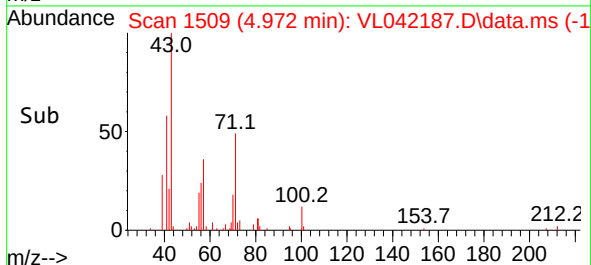
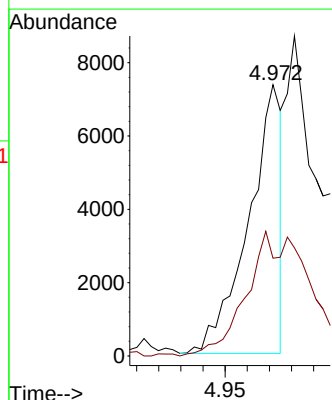
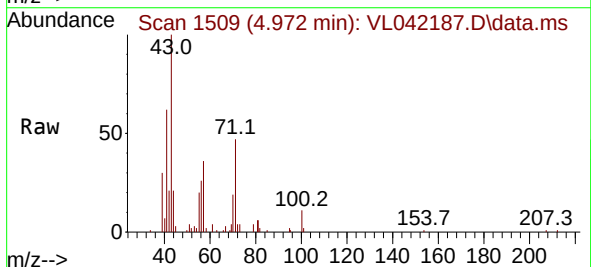
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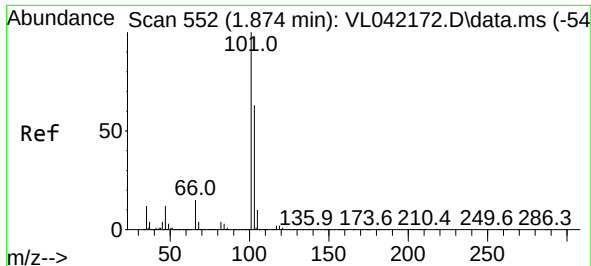
Tgt Ion: 41 Resp: 7879  
Ion Ratio Lower Upper  
41 100  
42 56.3 55.4 83.2



#10  
Heptane  
Concen: 0.222 ppbv  
RT: 4.972 min Scan# 1509  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 43 Resp: 7577  
Ion Ratio Lower Upper  
43 100  
57 92.2 39.4 59.2#

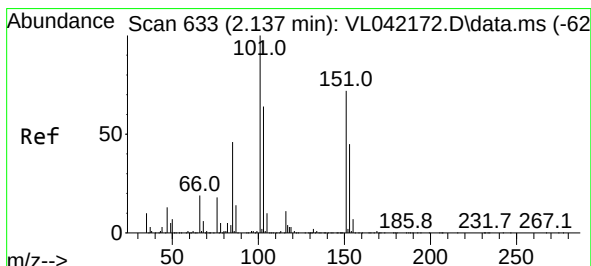
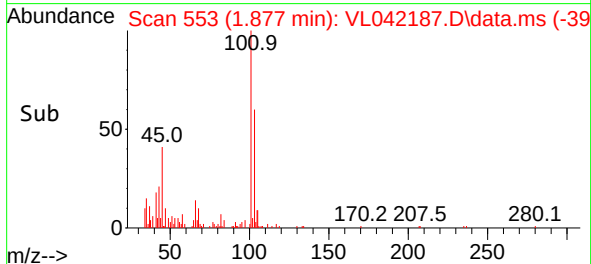
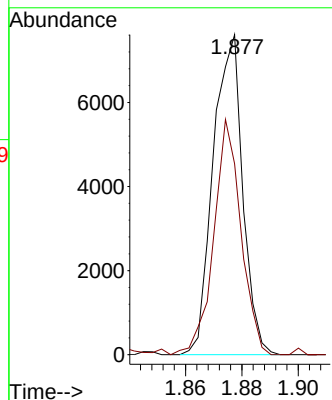
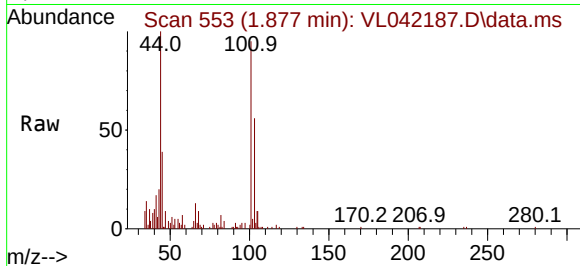




#11  
 Trichlorofluoromethane  
 Concen: 0.208 ppbv  
 RT: 1.877 min Scan# 51  
 Delta R.T. 0.003 min  
 Lab File: VL042187.D  
 Acq: 27 Mar 2025 19:36

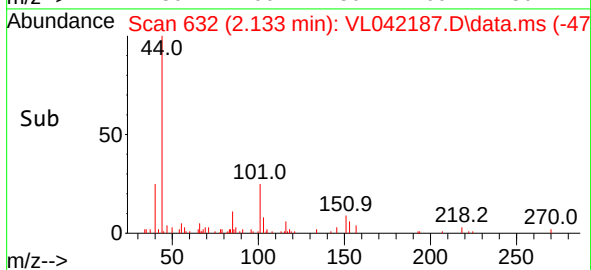
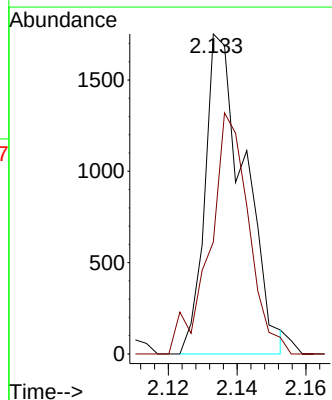
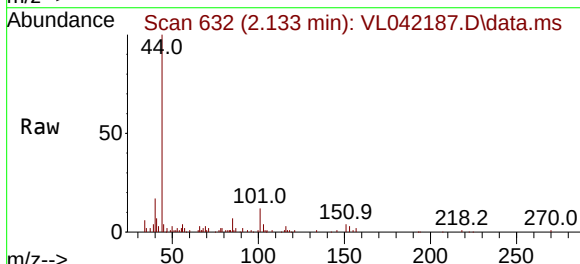
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-1-3262025

Tgt Ion:101 Resp: 5528  
 Ion Ratio Lower Upper  
 101 100  
 103 59.6 50.2 75.2

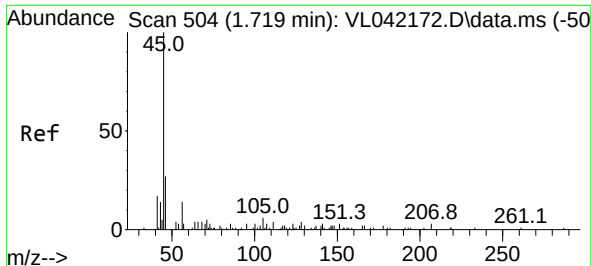


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.064 ppbv  
 RT: 2.133 min Scan# 632  
 Delta R.T. -0.004 min  
 Lab File: VL042187.D  
 Acq: 27 Mar 2025 19:36

Tgt Ion:101 Resp: 1407  
 Ion Ratio Lower Upper  
 101 100  
 151 73.3 57.1 85.7



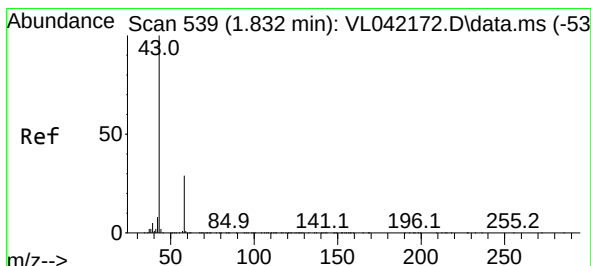
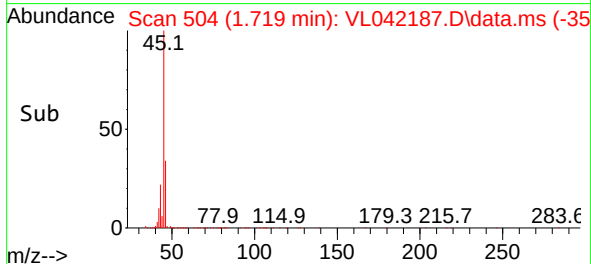
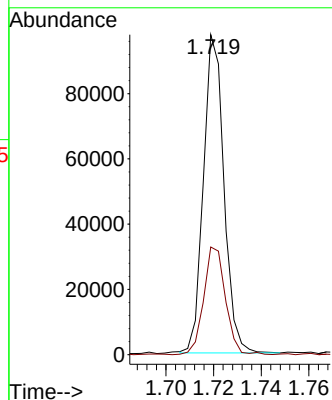
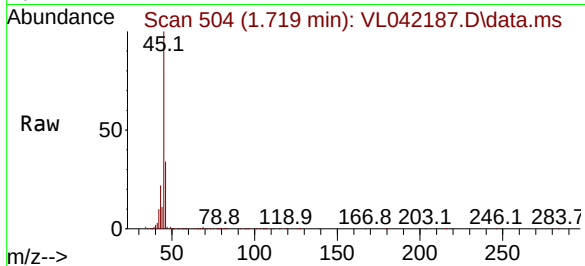




#13  
Ethanol  
Concen: 48.187 ppbv  
RT: 1.719 min Scan# 50  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

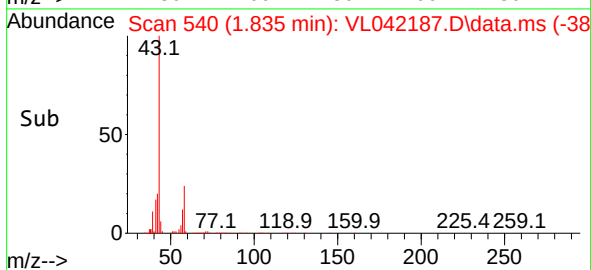
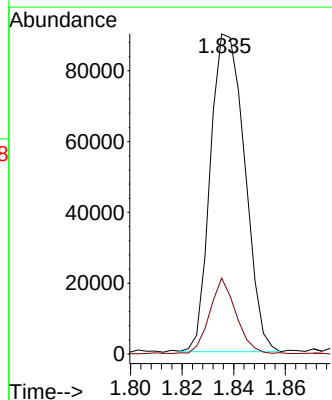
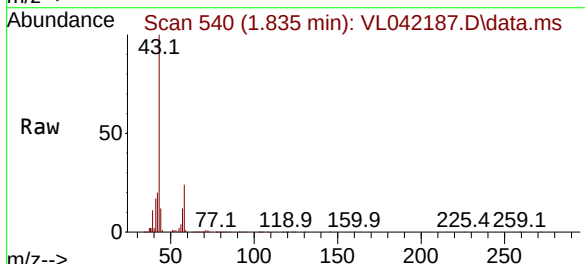
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IA-B9-1-3262025

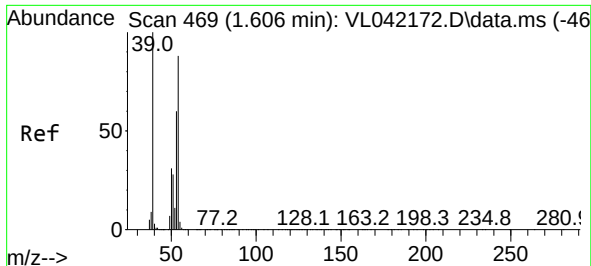
Tgt Ion: 45 Resp: 58391  
Ion Ratio Lower Upper  
45 100  
46 36.4 20.2 80.8



#15  
Acetone  
Concen: 3.197 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 43 Resp: 82901  
Ion Ratio Lower Upper  
43 100  
58 19.3 23.2 34.8#

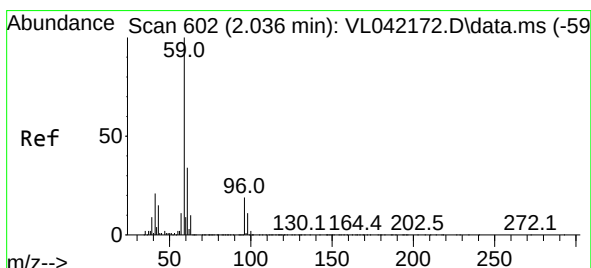
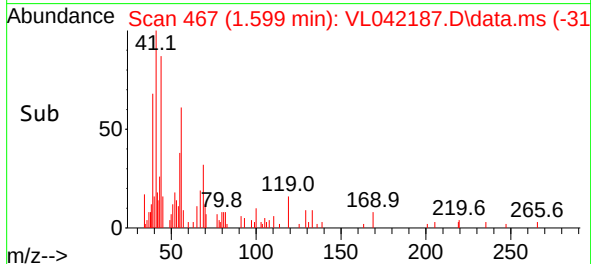
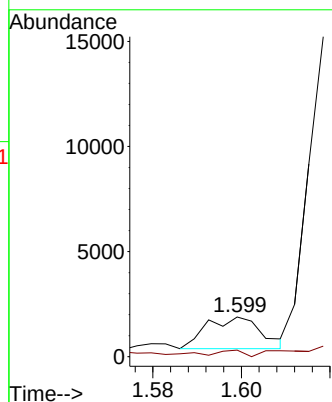
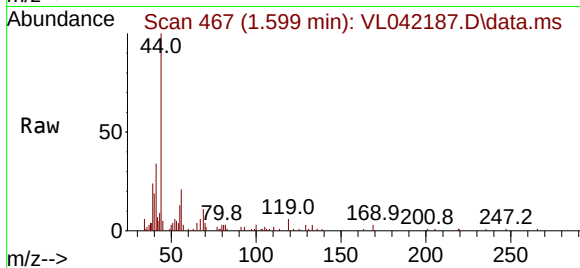




#16  
1,3-Butadiene  
Concen: 0.102 ppbv  
RT: 1.599 min Scan# 467  
Delta R.T. -0.007 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

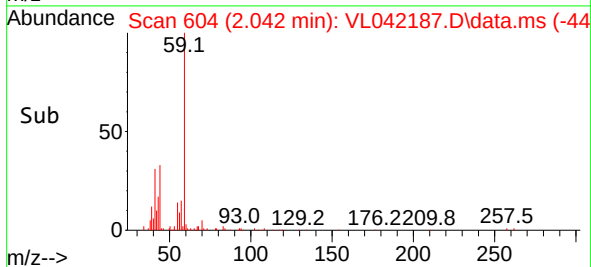
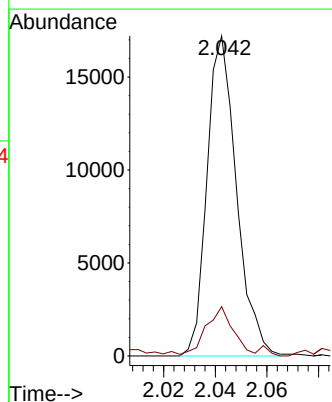
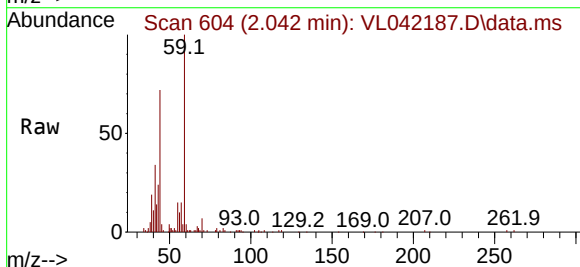
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ClientSampleId :  
IA-B9-1-3262025

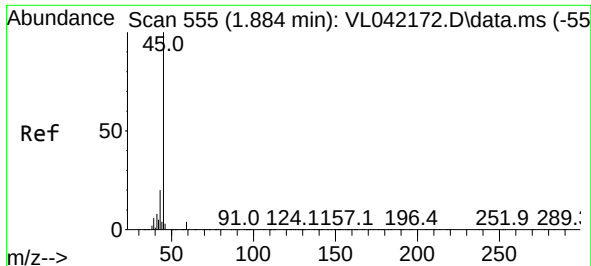
Tgt Ion: 39 Resp: 1297  
Ion Ratio Lower Upper  
39 100  
54 0.0 60.7 91.1#



#17  
tert-Butyl alcohol  
Concen: 0.423 ppbv  
RT: 2.042 min Scan# 604  
Delta R.T. 0.006 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 59 Resp: 13650  
Ion Ratio Lower Upper  
59 100  
57 13.1 8.9 13.3

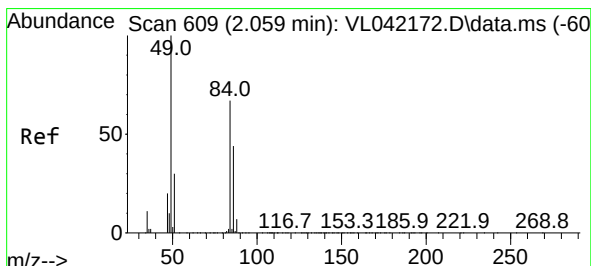
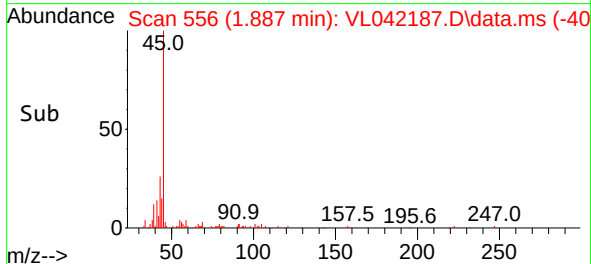
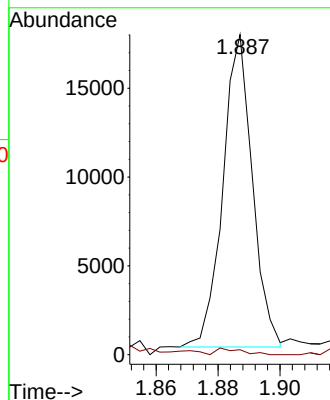
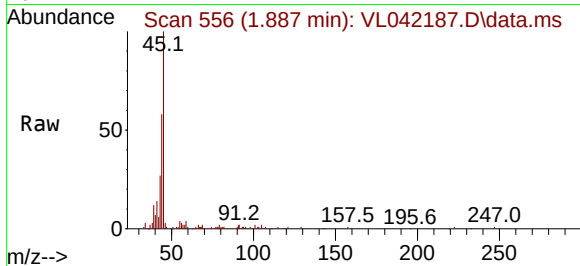




#19  
Isopropyl Alcohol  
Concen: 0.795 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

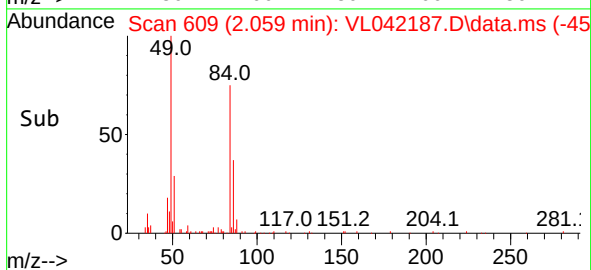
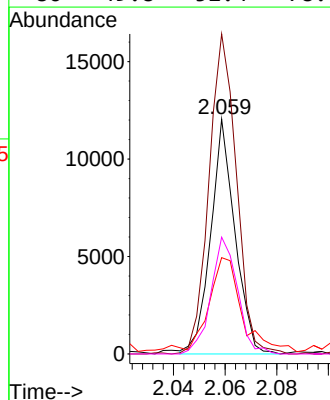
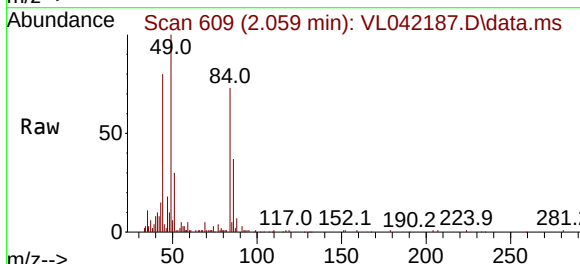
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

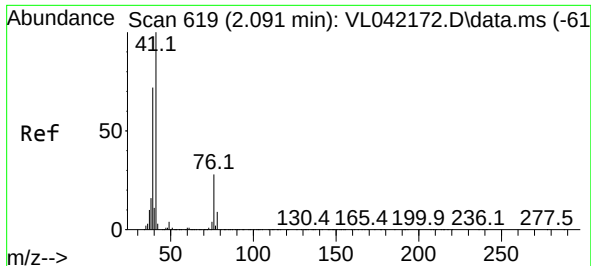
Tgt Ion: 45 Resp: 11631  
Ion Ratio Lower Upper  
45 100  
58 137.8 36.9 55.3#



#20  
Methylene Chloride  
Concen: 0.814 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 84 Resp: 7860  
Ion Ratio Lower Upper  
84 100  
49 135.0 120.2 180.4  
51 38.4 37.4 56.0  
86 49.8 52.4 78.6#

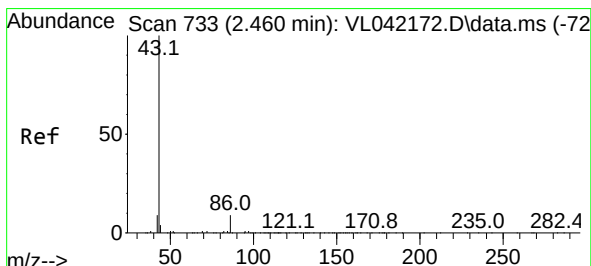
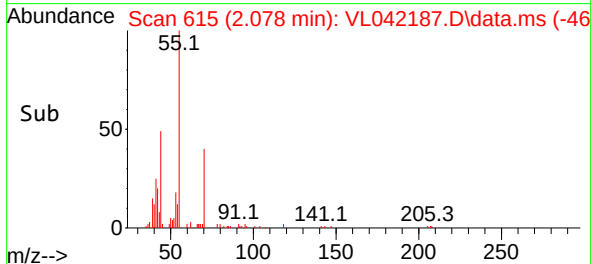
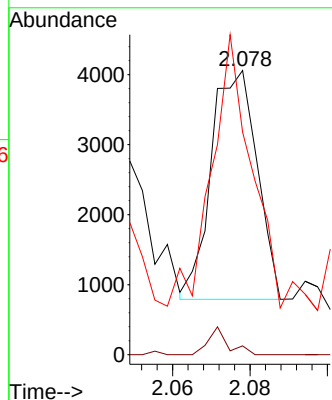
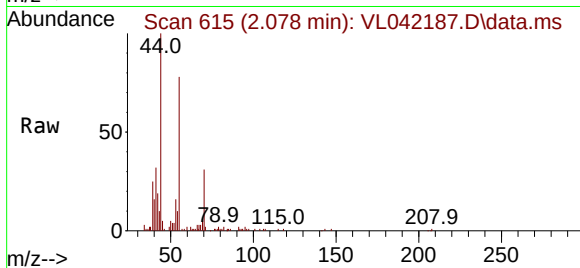




#21  
Allyl Chloride  
Concen: 0.146 ppbv  
RT: 2.078 min Scan# 61  
Delta R.T. -0.013 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

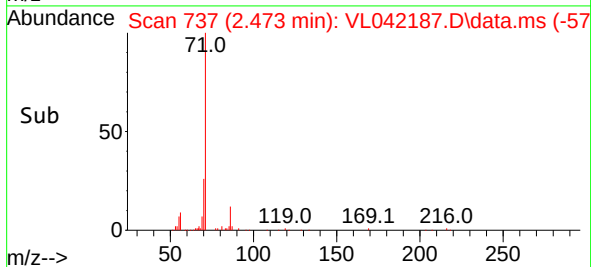
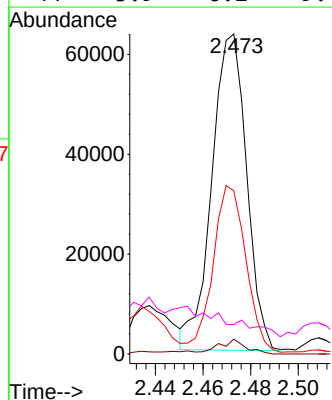
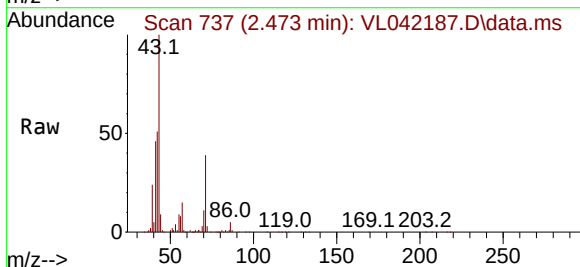
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

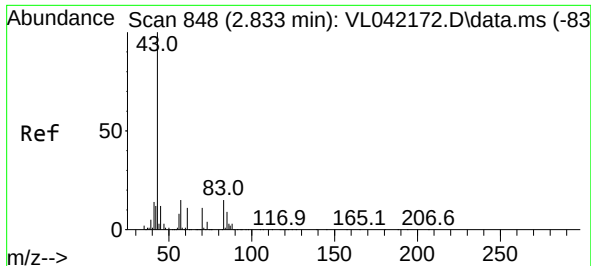
Tgt Ion: 41 Resp: 2669  
Ion Ratio Lower Upper  
41 100  
76 5.2 24.1 36.1#  
39 109.9 61.1 91.7#



#23  
Vinyl Acetate  
Concen: 5.719 ppbv  
RT: 2.473 min Scan# 737  
Delta R.T. 0.013 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 43 Resp: 64181  
Ion Ratio Lower Upper  
43 100  
86 4.7 5.5 8.3#  
42 51.2 8.6 13.0#  
44 3.9 6.2 9.4#

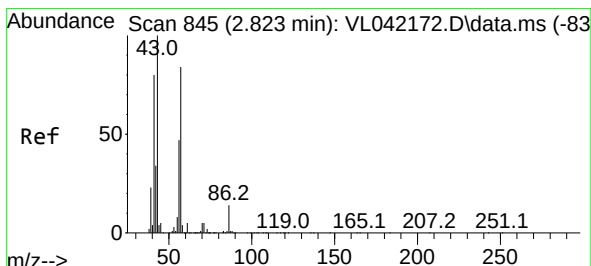
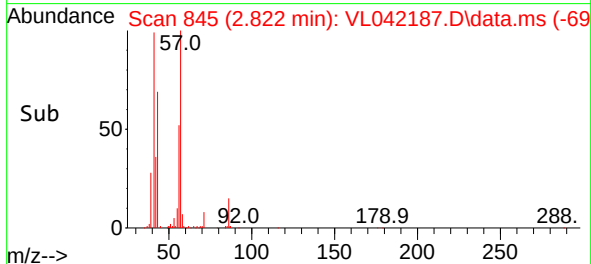
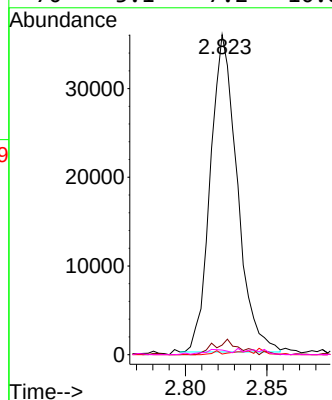
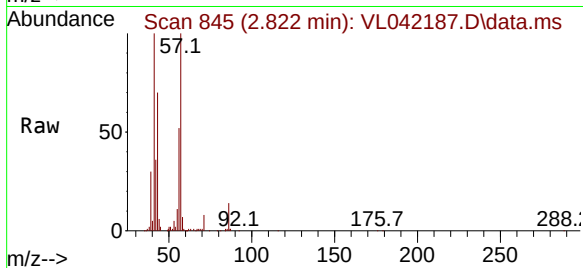




#25  
Ethyl Acetate  
Concen: 0.609 ppbv  
RT: 2.822 min Scan# 845  
Delta R.T. -0.010 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

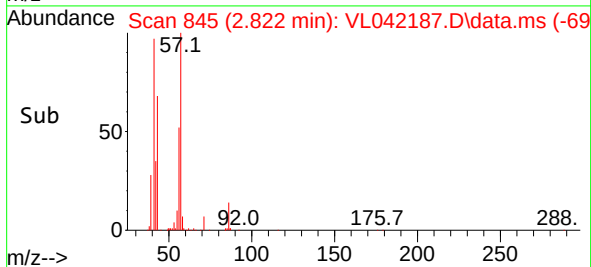
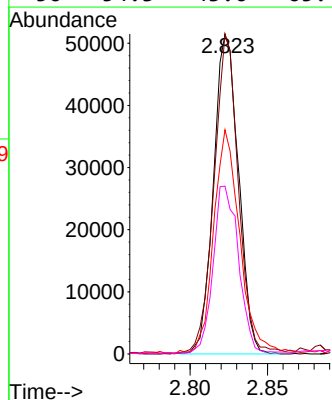
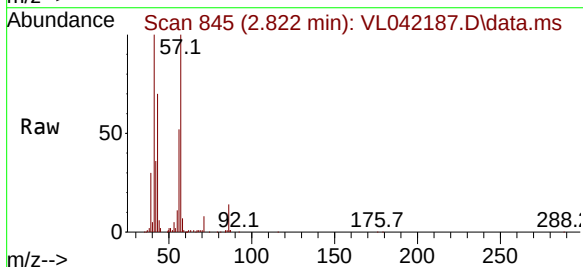
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

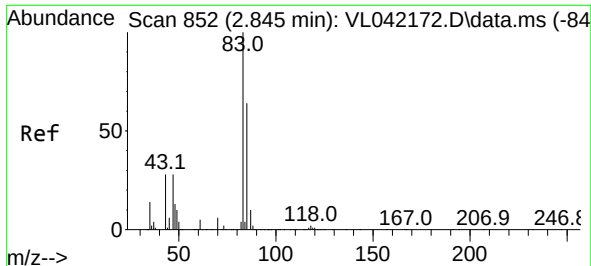
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 41018 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 4.9      | 8.2 12.2#   |
| 61 1.8      | 7.3 10.9#   |
| 70 3.1      | 7.2 10.8#   |



#26  
Hexane  
Concen: 2.215 ppbv  
RT: 2.822 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 57580  |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 98.0     | 76.6 114.8   |
| 43 74.4     | 207.8 311.8# |
| 56 54.3     | 43.6 65.4    |





#29

Chloroform

Concen: 0.043 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042187.D

Acq: 27 Mar 2025 19:36

Instrument :

MSVOA\_L

ClientSampleId :

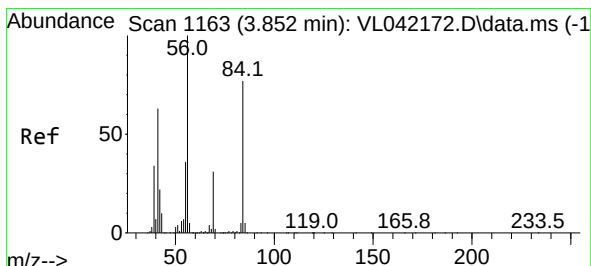
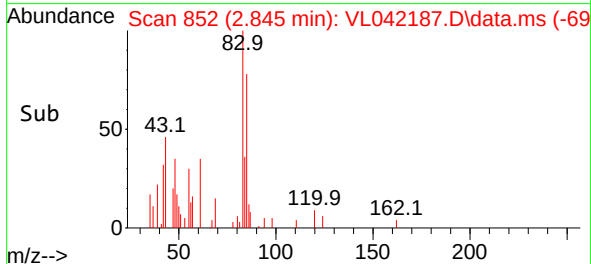
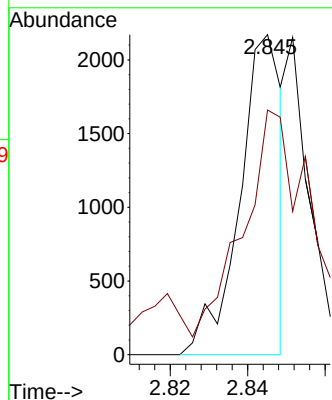
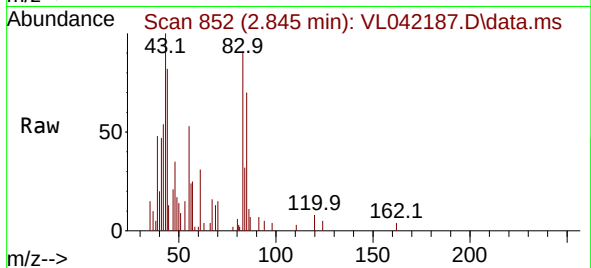
IA-B9-1-3262025

Tgt Ion: 83 Resp: 1640

Ion Ratio Lower Upper

83 100

85 64.2 51.4 77.2



#30

Cyclohexane

Concen: 0.275 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.004 min

Lab File: VL042187.D

Acq: 27 Mar 2025 19:36

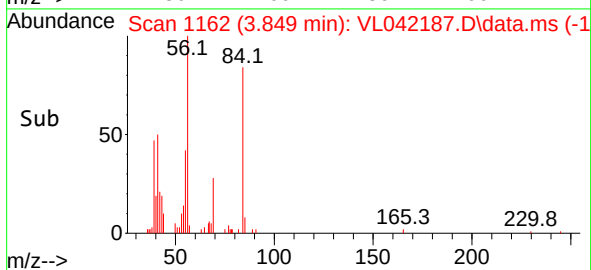
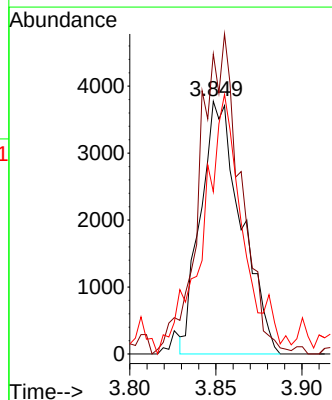
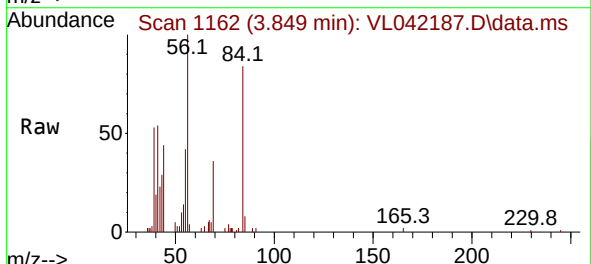
Tgt Ion: 84 Resp: 6200

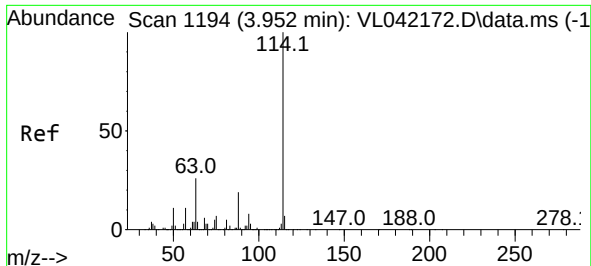
Ion Ratio Lower Upper

84 100

56 131.8 102.8 154.2

41 109.3 66.5 99.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042187.D

Acq: 27 Mar 2025 19:36

Instrument :

MSVOA\_L

ClientSampleId :

IA-B9-1-3262025

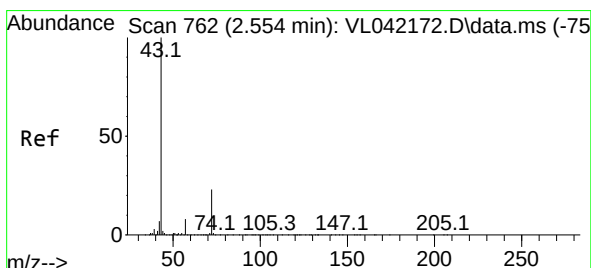
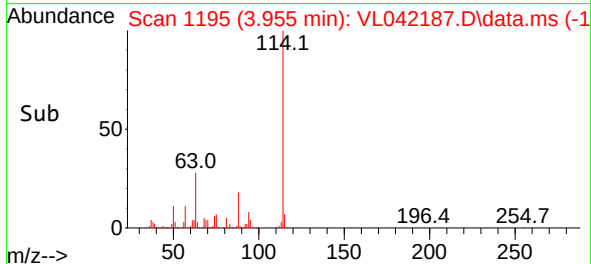
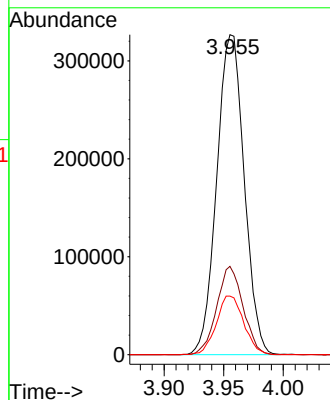
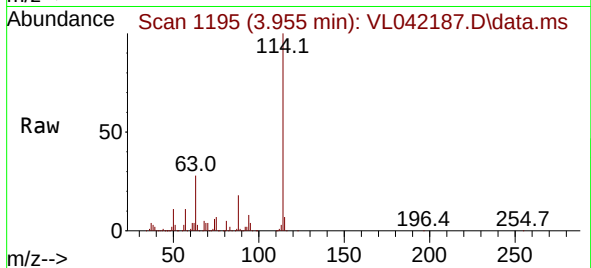
Tgt Ion:114 Resp: 523694

Ion Ratio Lower Upper

114 100

63 26.4 20.7 31.1

88 18.3 15.0 22.4



#34

2-Butanone

Concen: 0.543 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.006 min

Lab File: VL042187.D

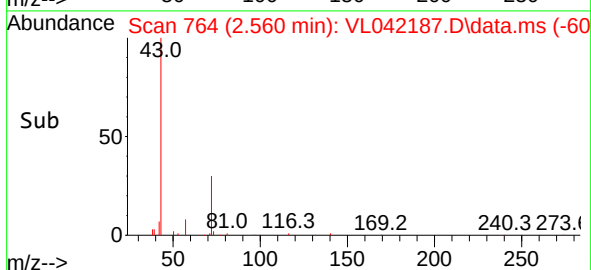
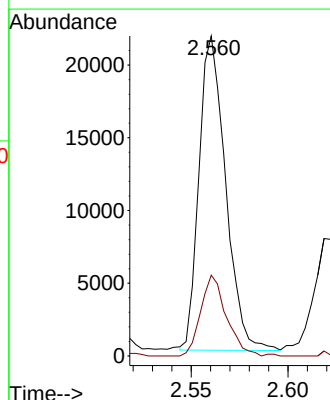
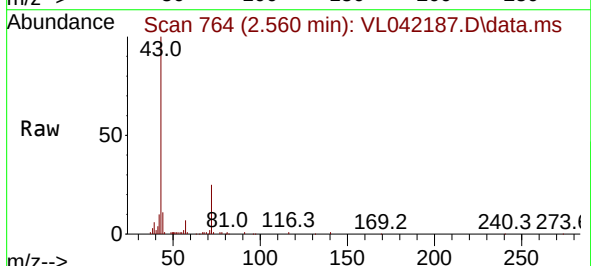
Acq: 27 Mar 2025 19:36

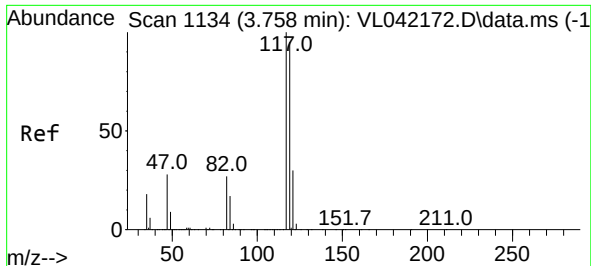
Tgt Ion: 43 Resp: 20631

Ion Ratio Lower Upper

43 100

72 24.9 18.2 27.2

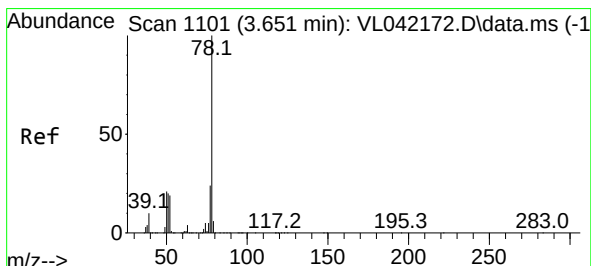
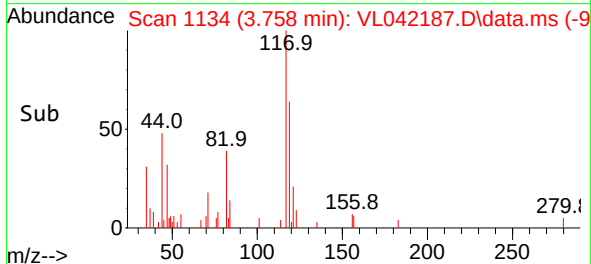
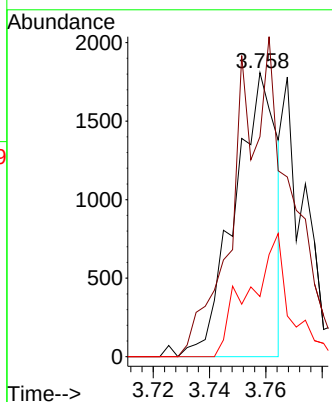
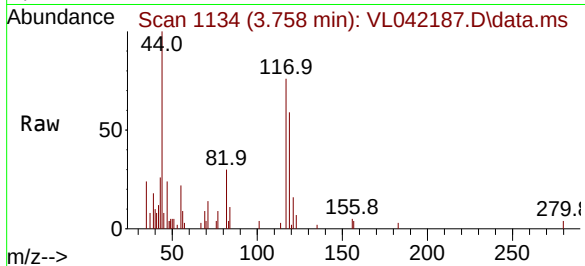




#35  
Carbon Tetrachloride  
Concen: 0.046 ppbv  
RT: 3.758 min Scan# 1134  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

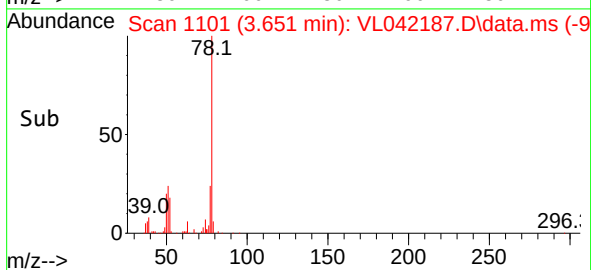
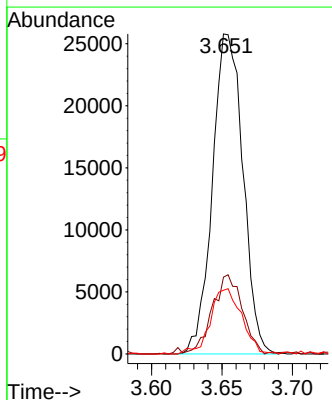
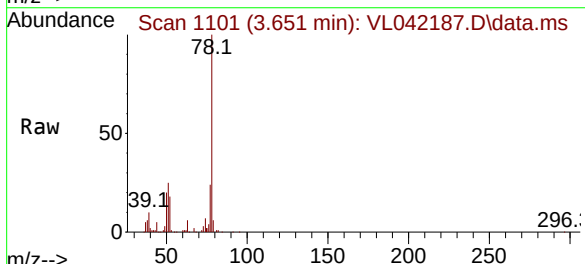
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

Tgt Ion:117 Resp: 1881  
Ion Ratio Lower Upper  
117 100  
119 77.4 76.2 114.2  
121 21.2 24.2 36.4#

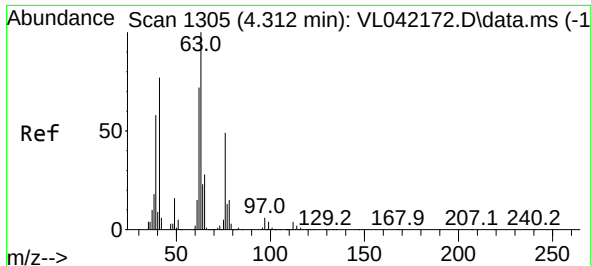


#36  
Benzene  
Concen: 0.749 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 78 Resp: 38888  
Ion Ratio Lower Upper  
78 100  
77 23.6 19.1 28.7  
50 19.9 16.6 24.8







#39

1,2-Dichloropropane

Concen: 7.316 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042187.D

Acq: 27 Mar 2025 19:36

Instrument :

MSVOA\_L

ClientSampleId :

IA-B9-1-3262025

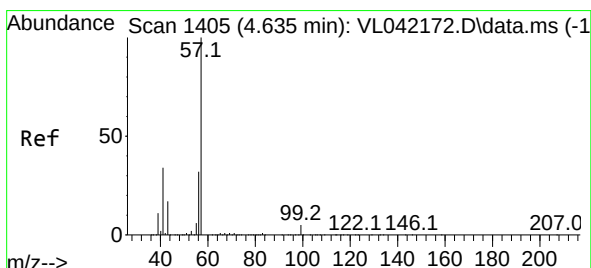
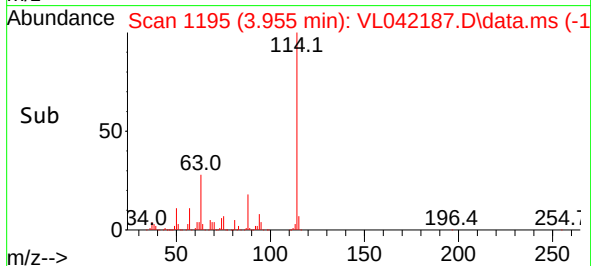
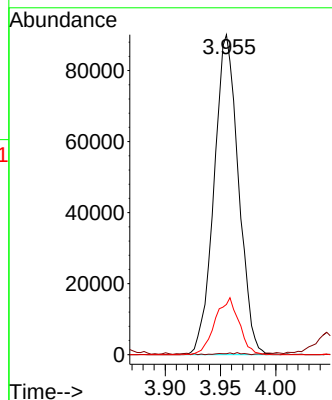
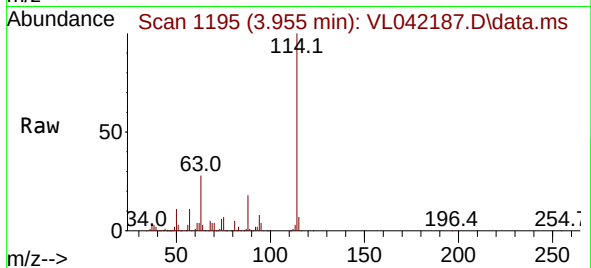
Tgt Ion: 63 Resp: 138319

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 15.7 57.6 86.4#



#44

2,2,4-Trimethylpentane

Concen: 0.299 ppbv

RT: 4.641 min Scan# 1407

Delta R.T. 0.006 min

Lab File: VL042187.D

Acq: 27 Mar 2025 19:36

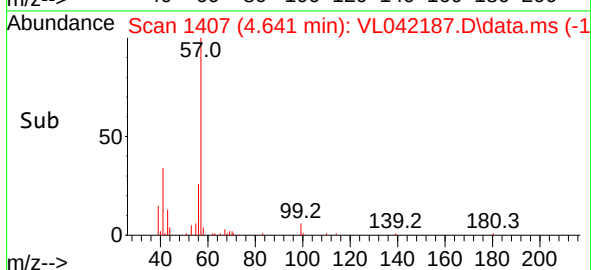
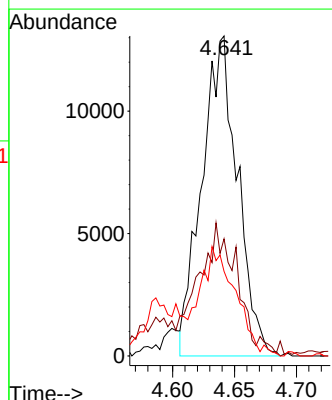
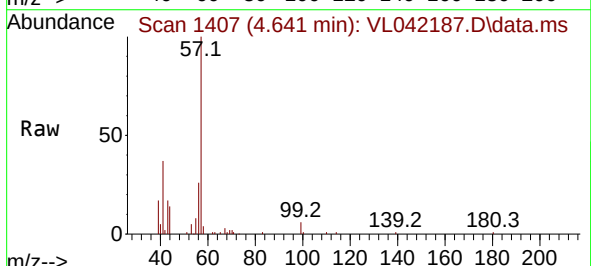
Tgt Ion: 57 Resp: 26219

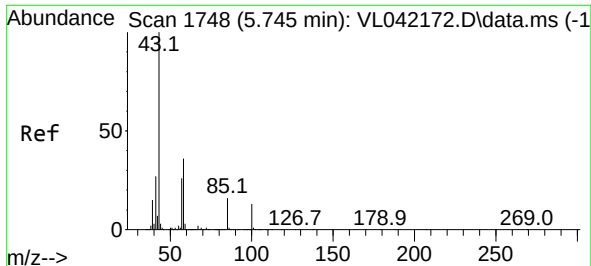
Ion Ratio Lower Upper

57 100

41 54.7 26.8 40.2#

56 36.5 25.6 38.4

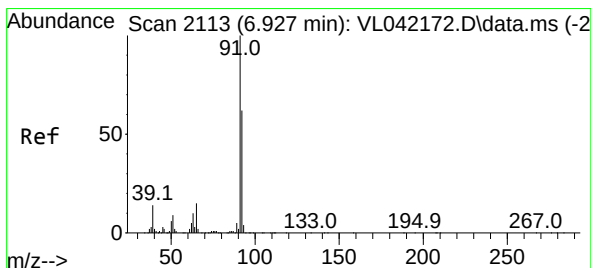
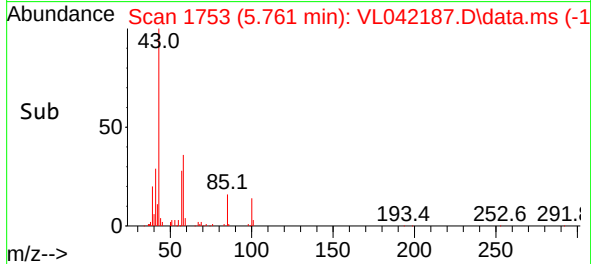
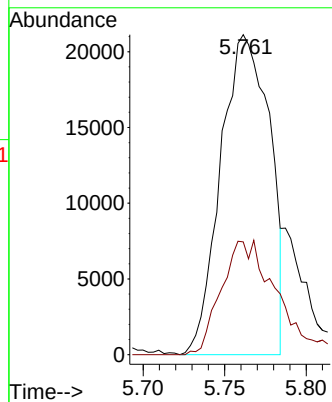
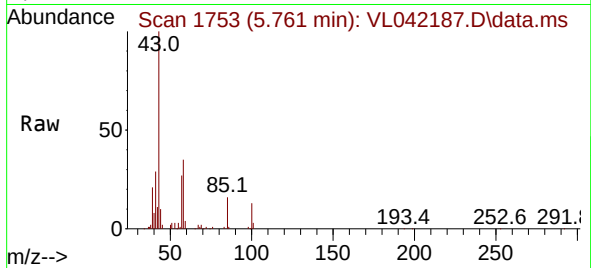




#50  
4-Methyl-2-Pentanone  
Concen: 0.733 ppbv  
RT: 5.761 min Scan# 1753  
Delta R.T. 0.016 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

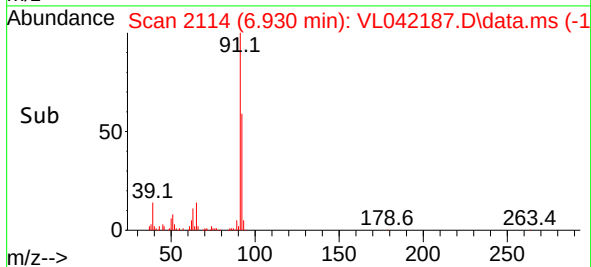
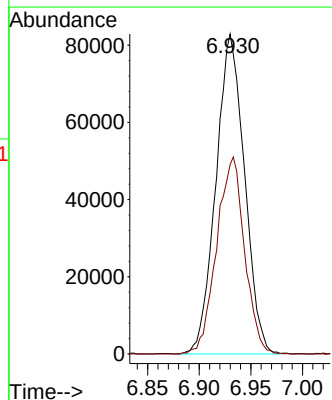
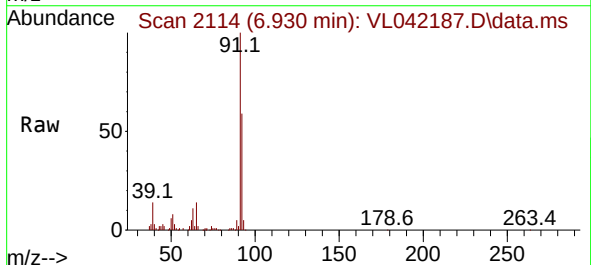
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

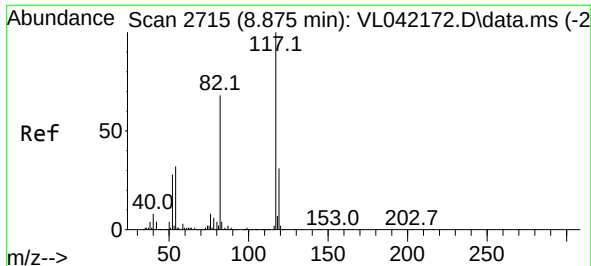
Tgt Ion: 43 Resp: 44105  
Ion Ratio Lower Upper  
43 100  
58 40.9 29.0 43.6



#53  
Toluene  
Concen: 2.593 ppbv  
RT: 6.930 min Scan# 2114  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 91 Resp: 159613  
Ion Ratio Lower Upper  
91 100  
92 60.1 48.4 72.6

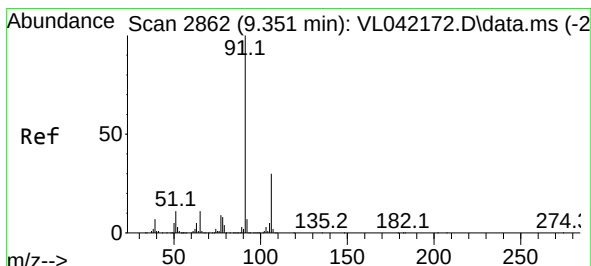
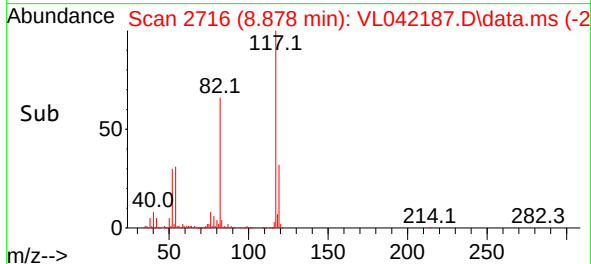
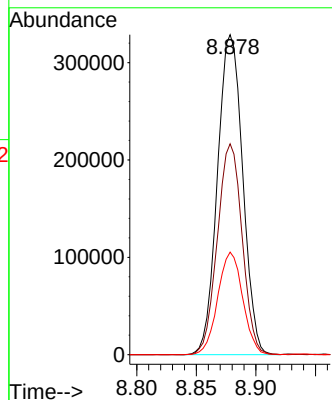
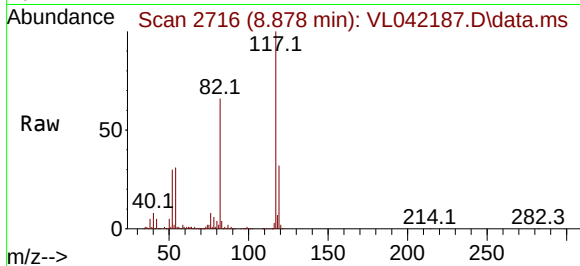




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

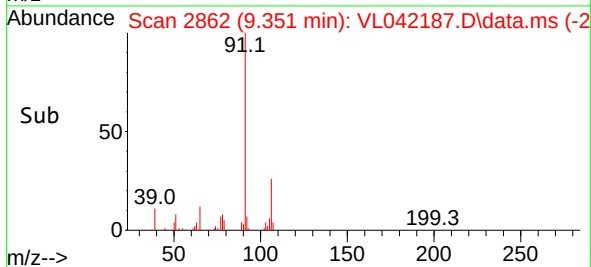
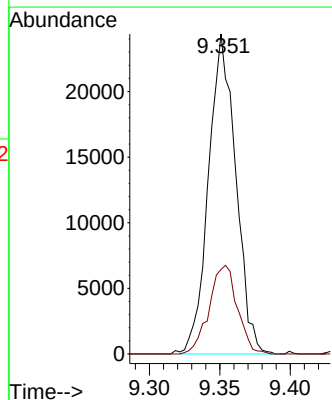
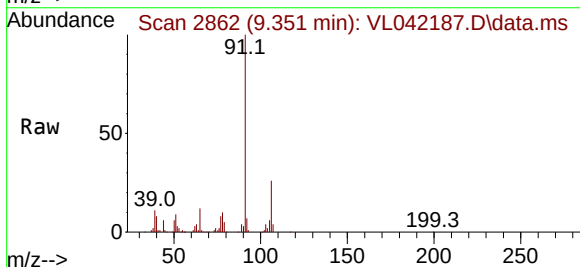
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

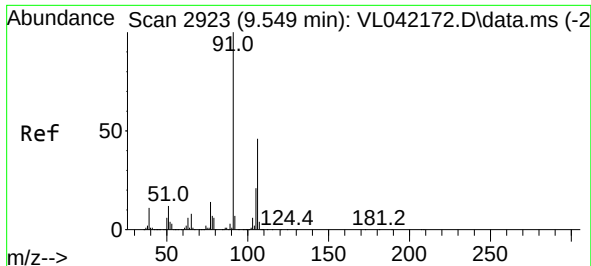
Tgt Ion:117 Resp: 484321  
Ion Ratio Lower Upper  
117 100  
82 64.6 55.8 83.6  
119 31.9 25.5 38.3



#58  
Ethyl Benzene  
Concen: 0.381 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 91 Resp: 32819  
Ion Ratio Lower Upper  
91 100  
106 26.4 24.2 36.2





#59

m/p-Xylene

Concen: 1.398 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.020 min

Lab File: VL042187.D

Acq: 27 Mar 2025 19:36

Instrument :

MSVOA\_L

ClientSampleId :

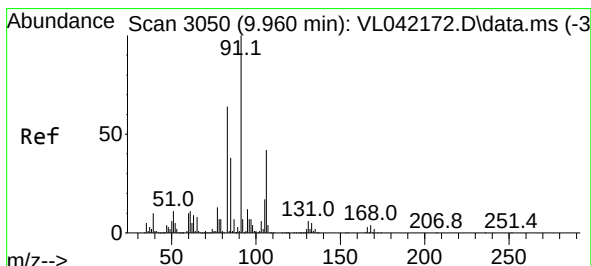
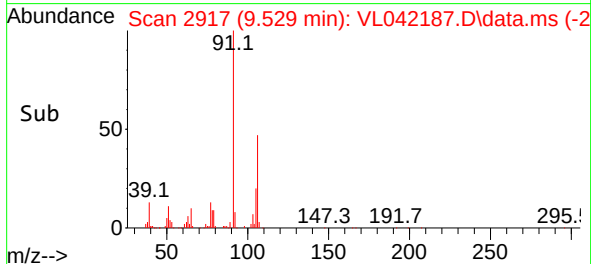
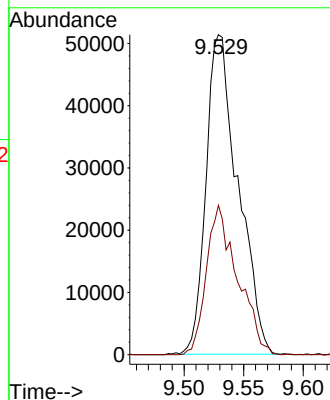
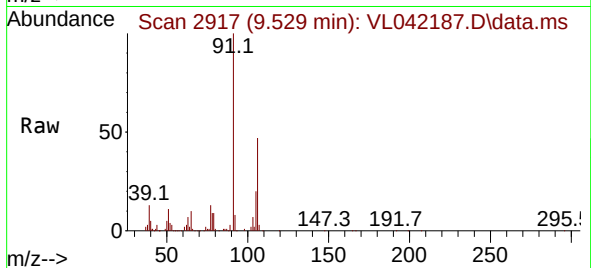
IA-B9-1-3262025

Tgt Ion: 91 Resp: 96052

Ion Ratio Lower Upper

91 100

106 45.6 36.4 54.6



#60

o-Xylene

Concen: 0.566 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042187.D

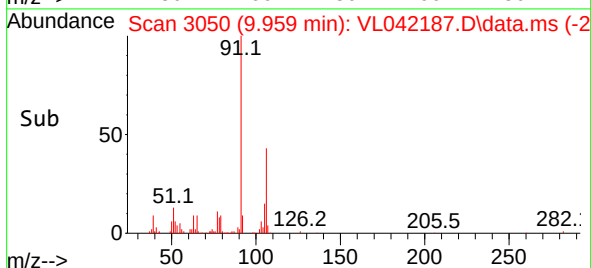
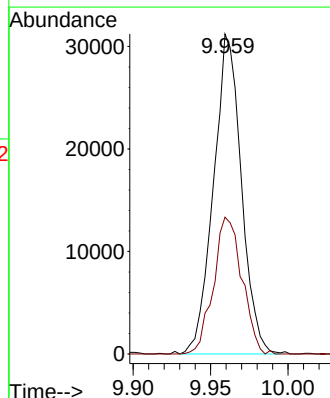
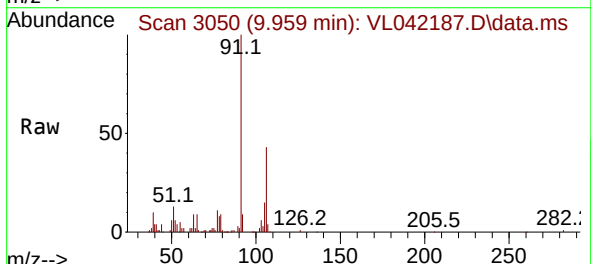
Acq: 27 Mar 2025 19:36

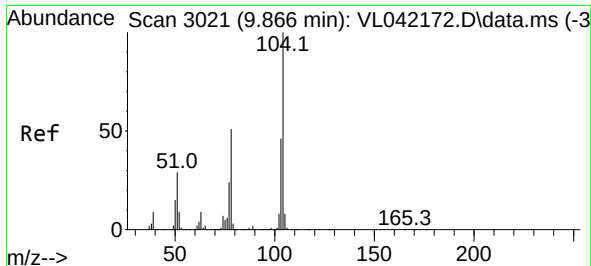
Tgt Ion: 91 Resp: 38965

Ion Ratio Lower Upper

91 100

106 43.9 20.8 62.5





#61

Styrene

Concen: 2.528 ppbv

RT: 9.869 min Scan# 3021

Delta R.T. 0.003 min

Lab File: VL042187.D

Acq: 27 Mar 2025 19:36

Instrument :

MSVOA\_L

ClientSampleId :

IA-B9-1-3262025

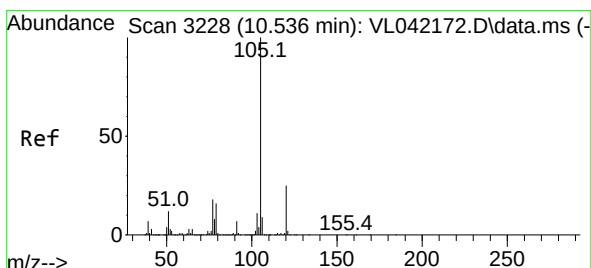
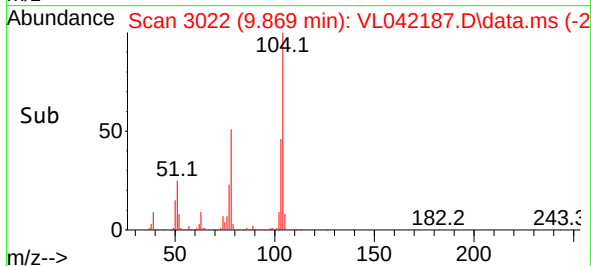
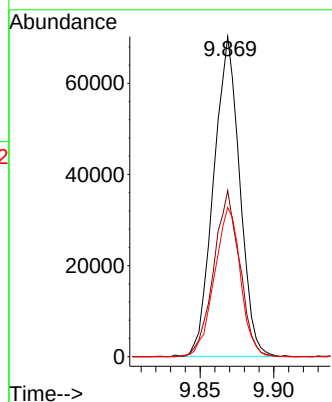
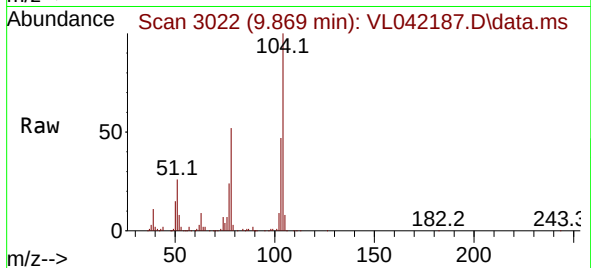
Tgt Ion:104 Resp: 86112

Ion Ratio Lower Upper

104 100

78 51.9 41.8 62.6

103 46.9 37.0 55.4



#62

Isopropylbenzene

Concen: 0.045 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.003 min

Lab File: VL042187.D

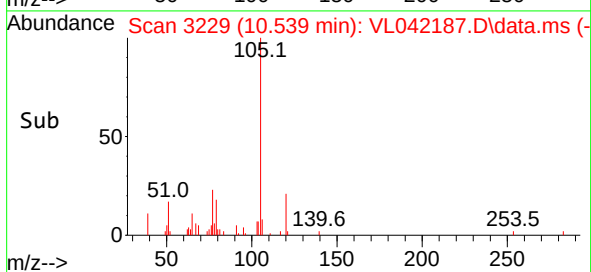
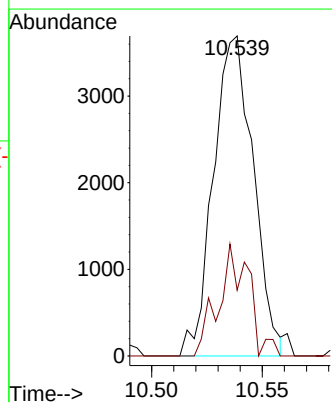
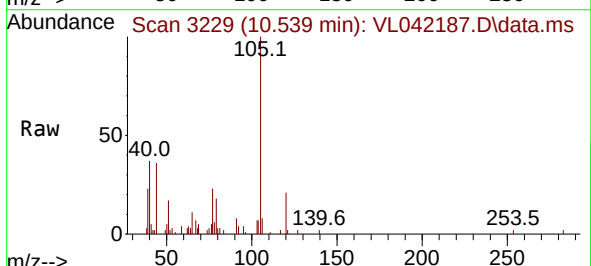
Acq: 27 Mar 2025 19:36

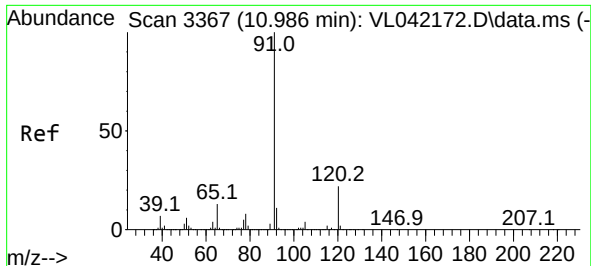
Tgt Ion:105 Resp: 4633

Ion Ratio Lower Upper

105 100

120 26.7 19.9 29.9

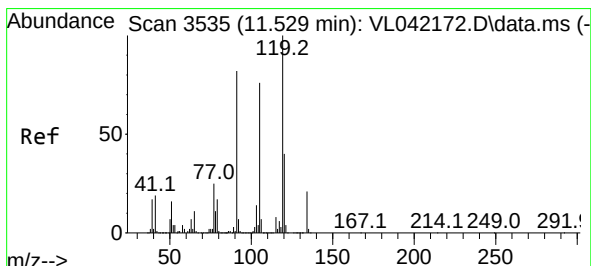
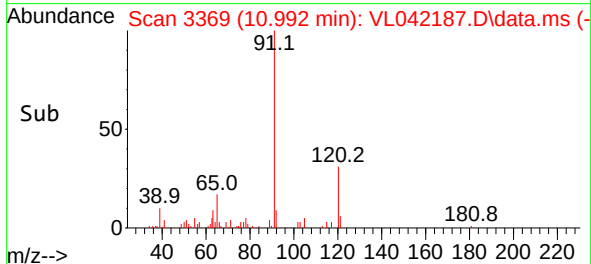
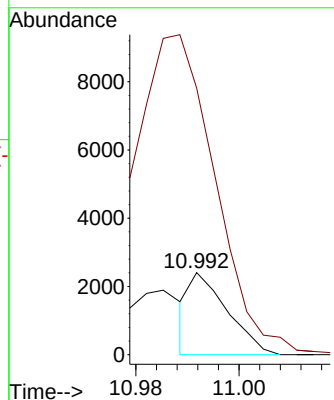
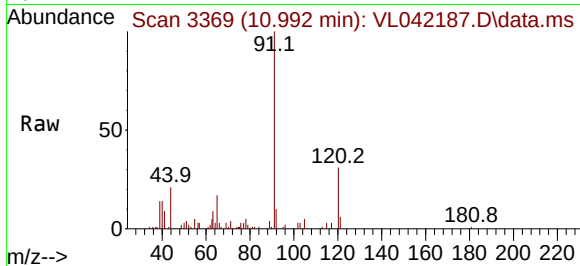




#64  
n-propylbenzene  
Concen: 0.046 ppbv  
RT: 10.992 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

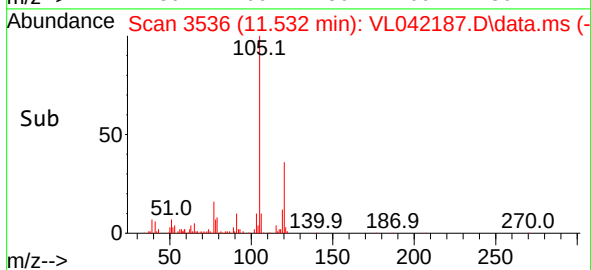
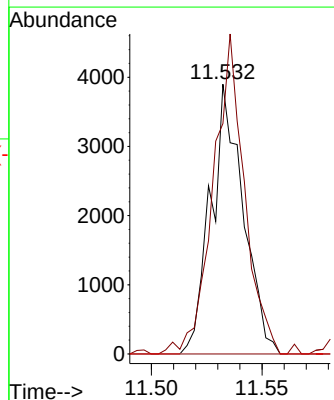
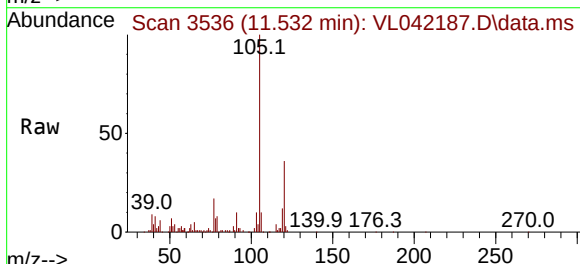
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

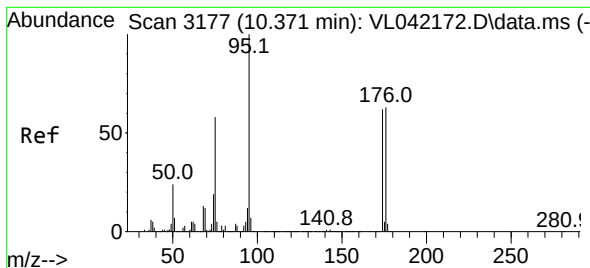
Tgt Ion:120 Resp: 1218  
Ion Ratio Lower Upper  
120 100  
91 914.7 376.9 565.3#



#65  
tert-Butylbenzene  
Concen: 0.042 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion:119 Resp: 3977  
Ion Ratio Lower Upper  
119 100  
91 114.7 66.0 99.0#  
134 0.0 16.7 25.1#

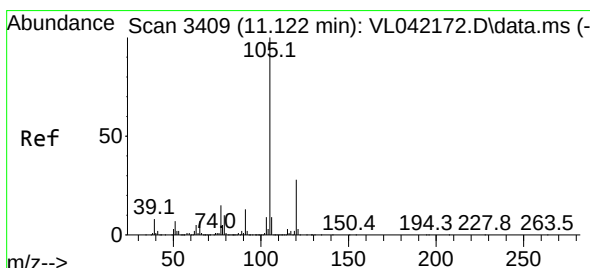
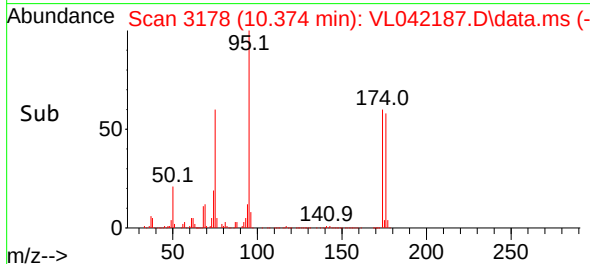
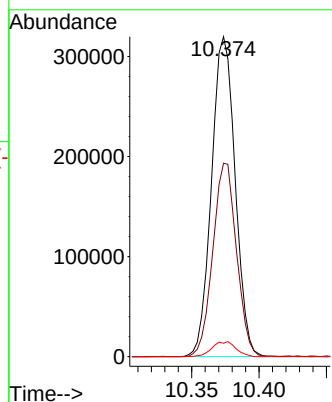
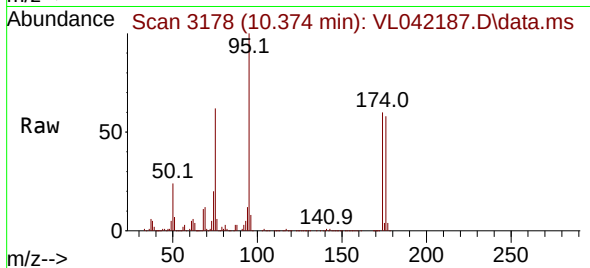




#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.801 ppbv  
RT: 10.374 min Scan# 3177  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

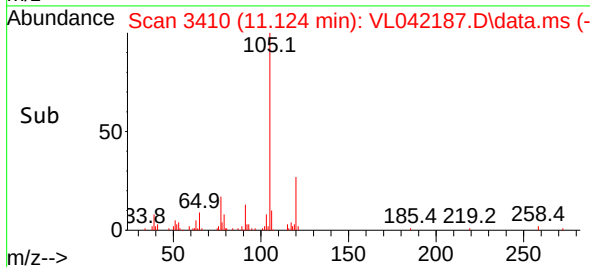
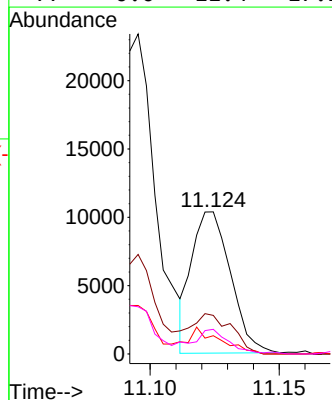
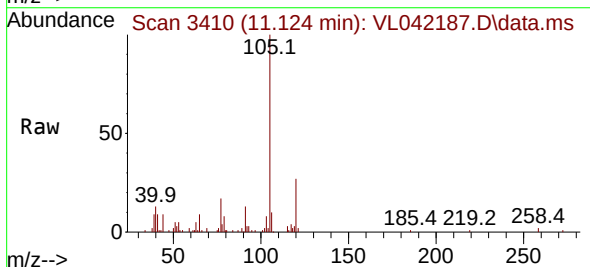
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

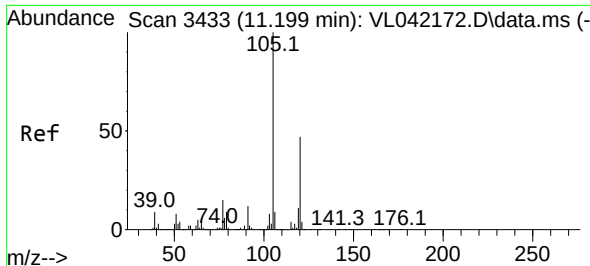
Tgt Ion: 95 Resp: 389805  
Ion Ratio Lower Upper  
95 100  
174 60.8 50.6 76.0  
175 4.8 3.8 5.6



#72  
4-Ethyltoluene  
Concen: 0.126 ppbv  
RT: 11.124 min Scan# 3410  
Delta R.T. 0.003 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion: 105 Resp: 10792  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.4 35.0#  
91 0.0 10.3 15.5#  
77 0.0 11.4 17.2#

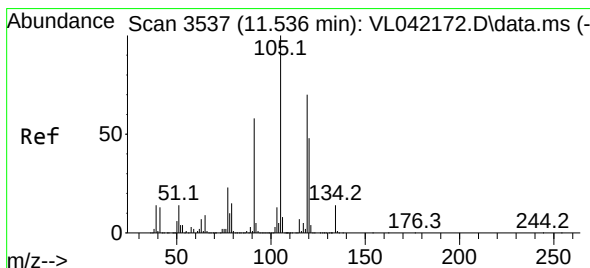
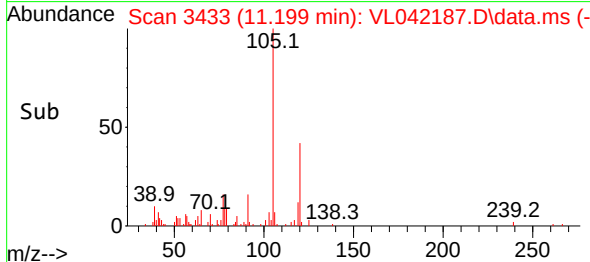
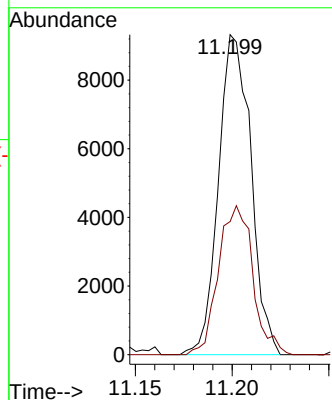
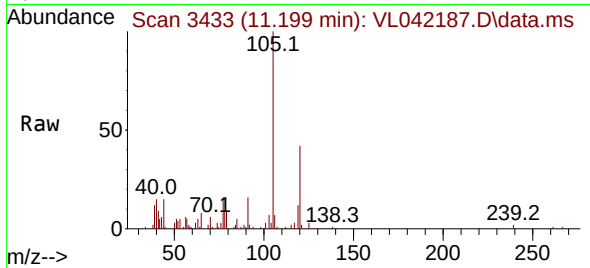




#73  
1,3,5-Trimethylbenzene  
Concen: 0.145 ppbv  
RT: 11.199 min Scan# 3433  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

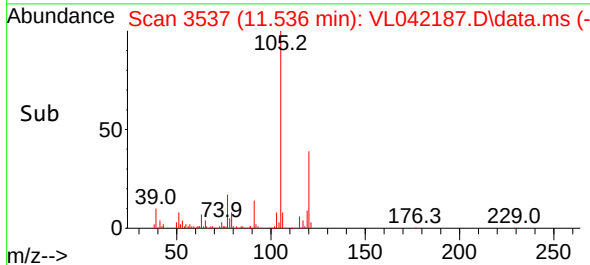
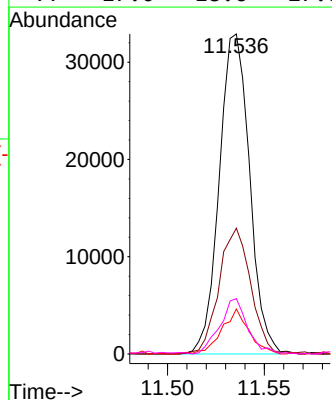
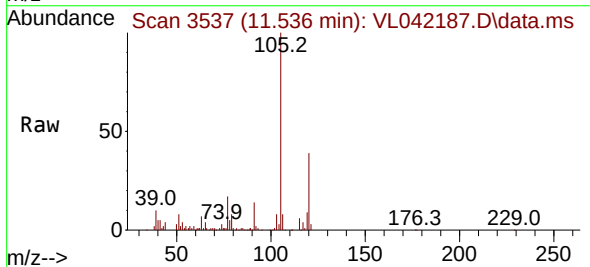
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-1-3262025

Tgt Ion:105 Resp: 10875  
Ion Ratio Lower Upper  
105 100  
120 41.6 37.4 56.0



#74  
1,2,4-Trimethylbenzene  
Concen: 0.415 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. -0.000 min  
Lab File: VL042187.D  
Acq: 27 Mar 2025 19:36

Tgt Ion:105 Resp: 35817  
Ion Ratio Lower Upper  
105 100  
120 39.3 38.6 58.0  
91 14.1 46.2 69.2#  
77 17.0 18.6 27.8#





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042188.D  
 Acq On : 27 Mar 2025 20:12  
 Operator : SY/MD  
 Sample : Q1669-04  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AA-1-3262025

Quant Time: Mar 28 02:16:44 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

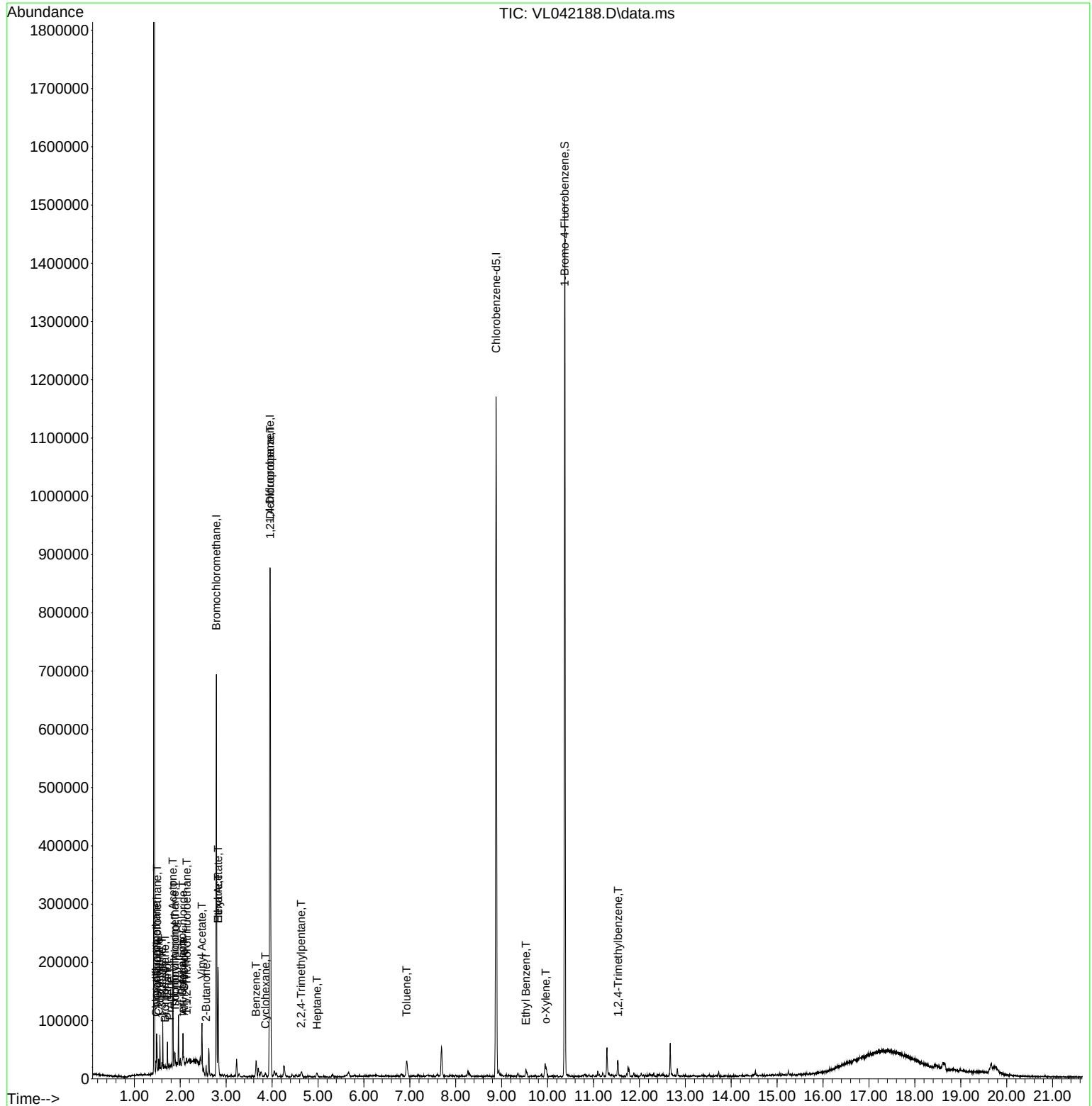
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 185847   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.955  | 114   | 529516   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.878  | 117   | 474604   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.374 | 95    | 386837   | 9.925    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.300%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.496  | 85    | 10856    | 0.396    | ppbv   | 94       |
| 3) Chlorodifluoromethane      | 1.473  | 51    | 10278    | 0.367    | ppbv   | 99       |
| 4) Chloromethane              | 1.531  | 50    | 5306     | 0.473    | ppbv   | 100      |
| 6) Bromomethane               | 1.670  | 94    | 185      | 0.036    | ppbv # | 38       |
| 9) Propene                    | 1.774  | 41    | 1755     | 0.137    | ppbv   | 84       |
| 10) Heptane                   | 4.978  | 43    | 1567     | 0.046    | ppbv # | 40       |
| 11) Trichlorofluoromethane    | 1.878  | 101   | 5846     | 0.219    | ppbv   | 95       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 1399     | 0.064    | ppbv   | 95       |
| 13) Ethanol                   | 1.719  | 45    | 15071    | 12.408   | ppbv   | 93       |
| 15) Acetone                   | 1.836  | 43    | 83691    | 3.220    | ppbv   | 92       |
| 16) 1,3-Butadiene             | 1.599  | 39    | 1660     | 0.131    | ppbv # | 69       |
| 17) tert-Butyl alcohol        | 2.043  | 59    | 1963     | 0.061    | ppbv # | 48       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 9528     | 0.650    | ppbv # | 1        |
| 20) Methylene Chloride        | 2.059  | 84    | 7575     | 0.783    | ppbv   | 85       |
| 21) Allyl Chloride            | 2.082  | 41    | 706      | 0.039    | ppbv # | 1        |
| 23) Vinyl Acetate             | 2.473  | 43    | 24377    | 2.167    | ppbv # | 52       |
| 25) Ethyl Acetate             | 2.823  | 43    | 31575    | 0.468    | ppbv # | 81       |
| 26) Hexane                    | 2.823  | 57    | 44184    | 1.696    | ppbv # | 33       |
| 30) Cyclohexane               | 3.855  | 84    | 1537     | 0.068    | ppbv # | 43       |
| 34) 2-Butanone                | 2.564  | 43    | 9069     | 0.236    | ppbv   | 98       |
| 36) Benzene                   | 3.651  | 78    | 16130    | 0.307    | ppbv # | 93       |
| 39) 1,2-Dichloropropane       | 3.959  | 63    | 136667   | 7.149    | ppbv # | 22       |
| 44) 2,2,4-Trimethylpentane    | 4.635  | 57    | 3242     | 0.037    | ppbv # | 1        |
| 53) Toluene                   | 6.930  | 91    | 19259    | 0.309    | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.529  | 91    | 4355     | 0.052    | ppbv   | 100      |
| 60) o-Xylene                  | 9.959  | 91    | 3145     | 0.047    | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105   | 6973     | 0.082    | ppbv # | 62       |

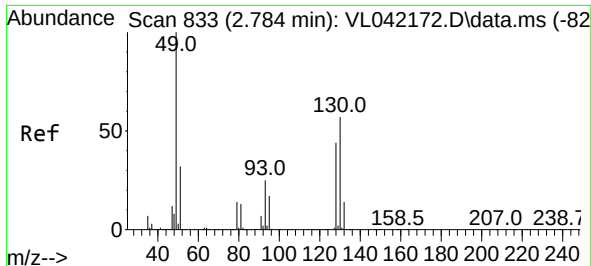
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042188.D  
Acq On : 27 Mar 2025 20:12  
Operator : SY/MD  
Sample : Q1669-04  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

Quant Time: Mar 28 02:16:44 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

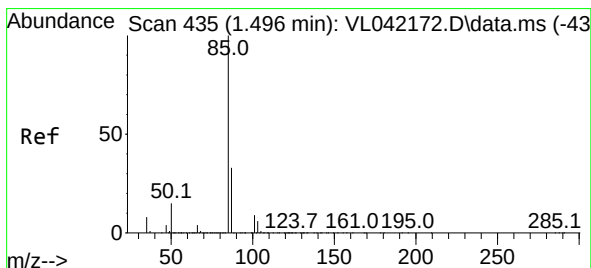
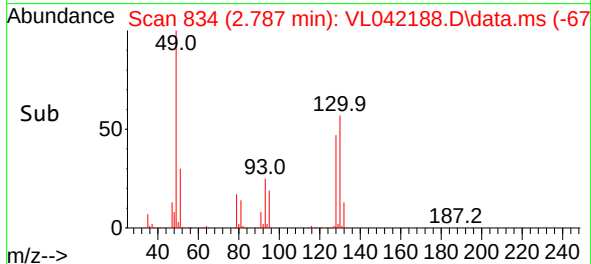
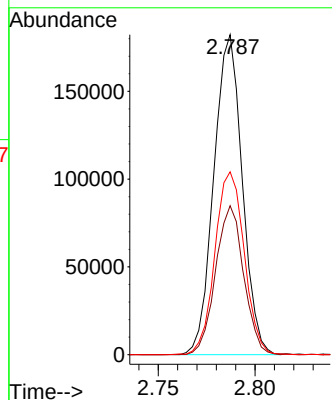
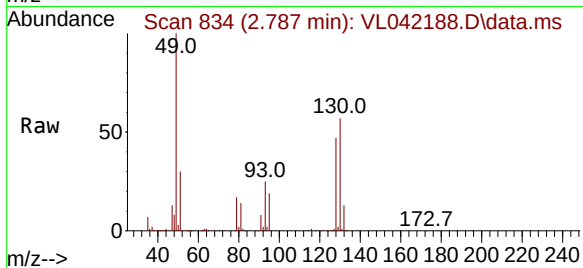




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

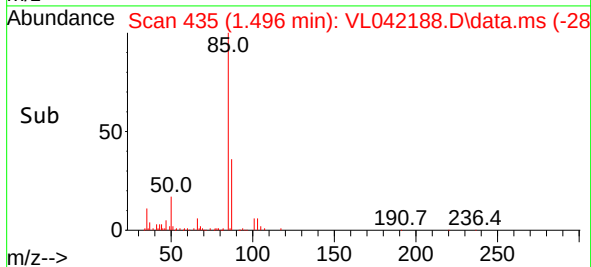
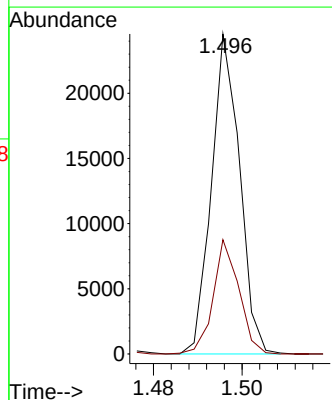
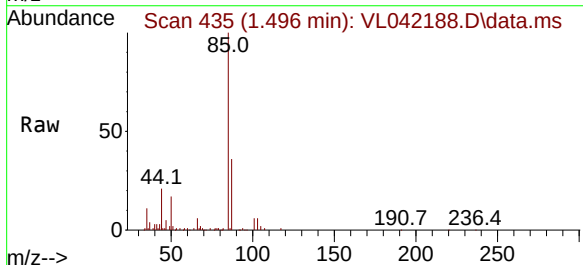
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

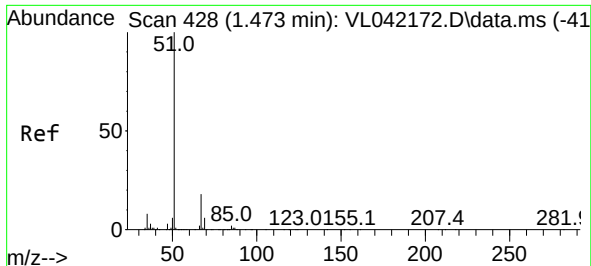
Tgt Ion: 49 Resp: 185847  
Ion Ratio Lower Upper  
49 100  
128 46.1 22.9 68.5  
130 59.0 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 0.396 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

Tgt Ion: 85 Resp: 10856  
Ion Ratio Lower Upper  
85 100  
87 35.7 26.1 39.1

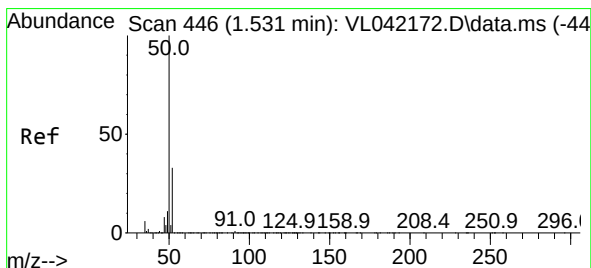
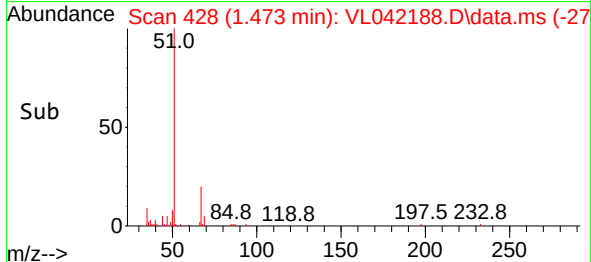
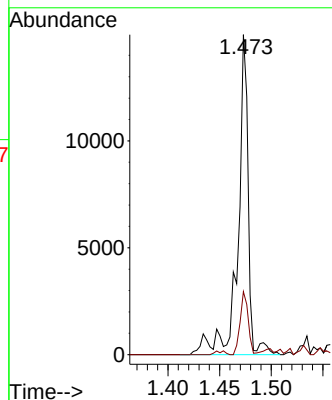
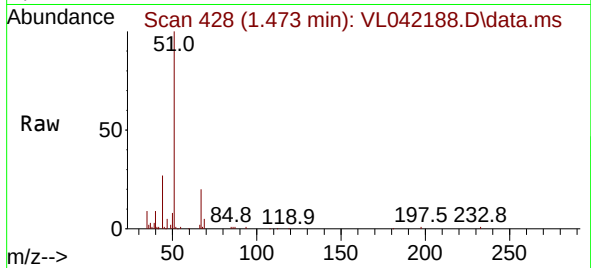




#3  
Chlorodifluoromethane  
Concen: 0.367 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

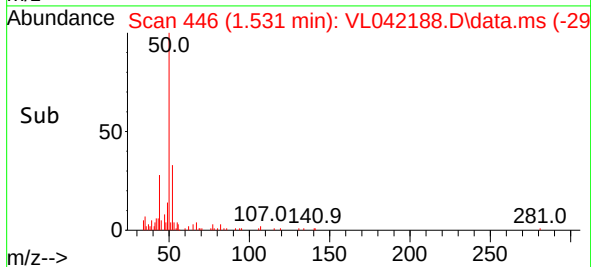
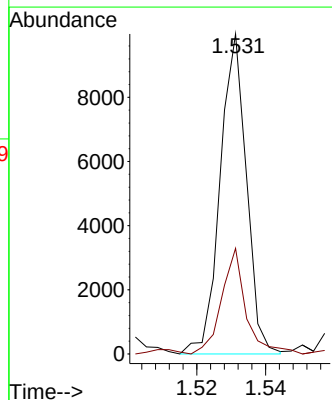
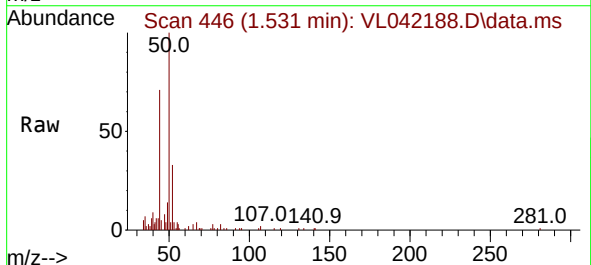
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

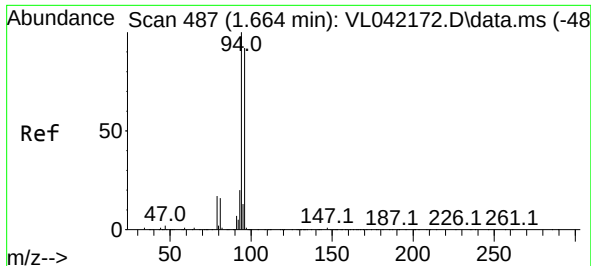
Tgt Ion: 51 Resp: 10278  
Ion Ratio Lower Upper  
51 100  
67 19.1 15.0 22.6



#4  
Chloromethane  
Concen: 0.473 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

Tgt Ion: 50 Resp: 5306  
Ion Ratio Lower Upper  
50 100  
52 32.6 26.1 39.1

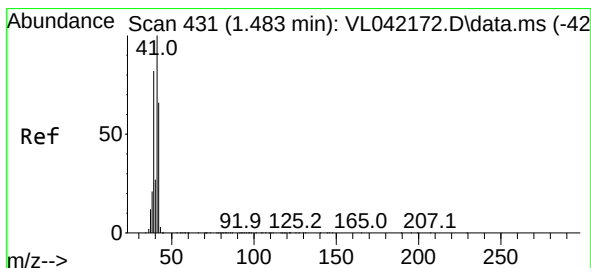
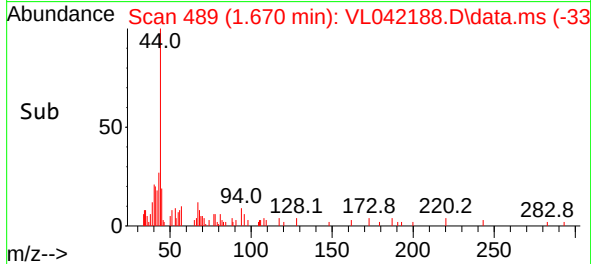
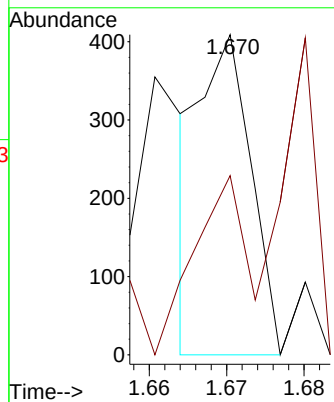
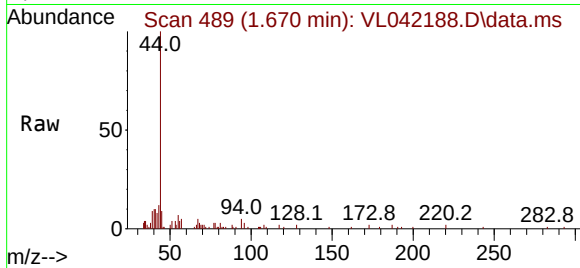




#6  
Bromomethane  
Concen: 0.036 ppbv  
RT: 1.670 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

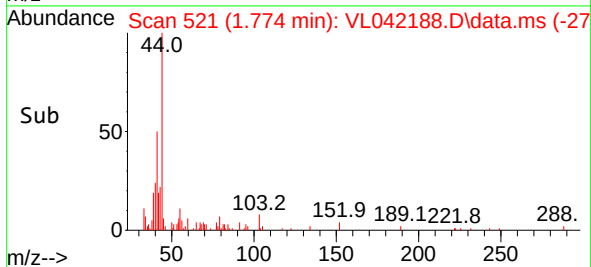
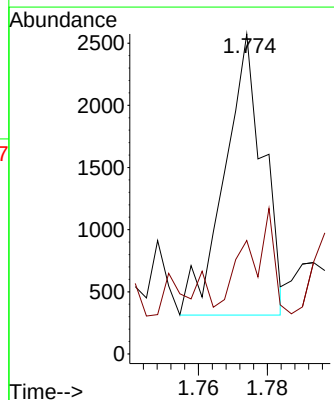
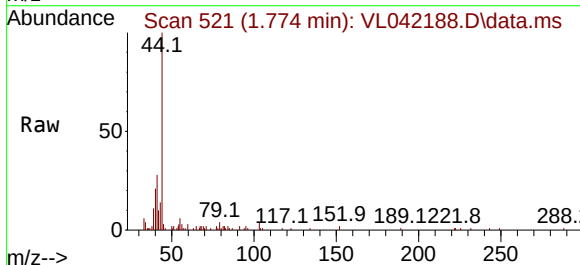
Instrument :  
MSVOA\_1  
ClientSampleId :  
AA-1-3262025

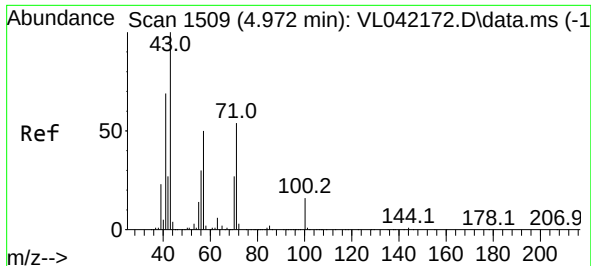
Tgt Ion: 94 Resp: 185  
Ion Ratio Lower Upper  
94 100  
96 32.8 73.1 109.7#



#9  
Propene  
Concen: 0.137 ppbv  
RT: 1.774 min Scan# 521  
Delta R.T. 0.291 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

Tgt Ion: 41 Resp: 1755  
Ion Ratio Lower Upper  
41 100  
42 82.2 55.4 83.2

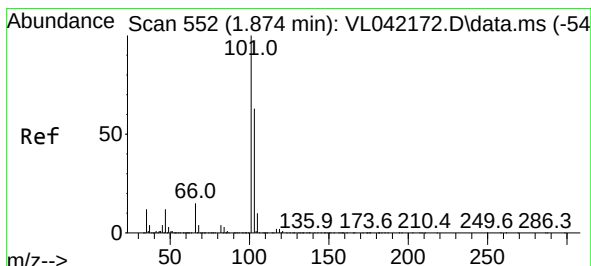
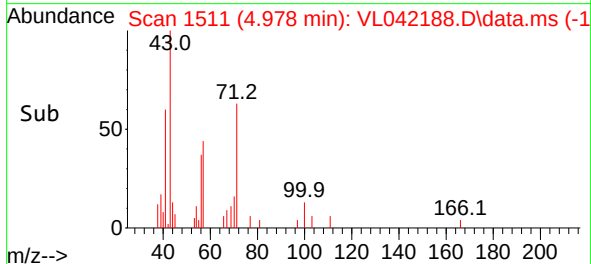
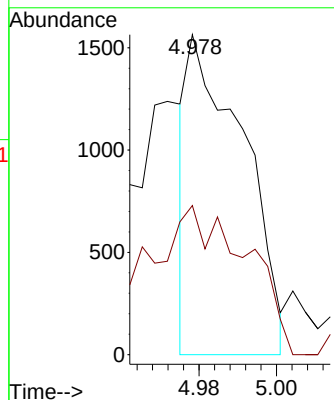
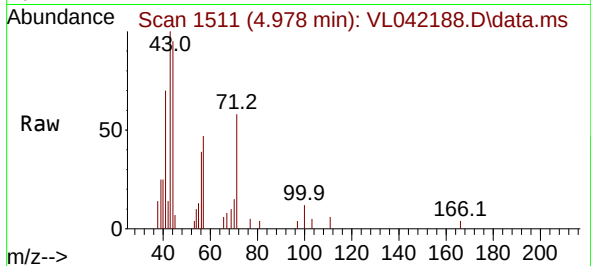




#10  
 Heptane  
 Concen: 0.046 ppbv  
 RT: 4.978 min Scan# 11  
 Delta R.T. 0.006 min  
 Lab File: VL042188.D  
 Acq: 27 Mar 2025 20:12

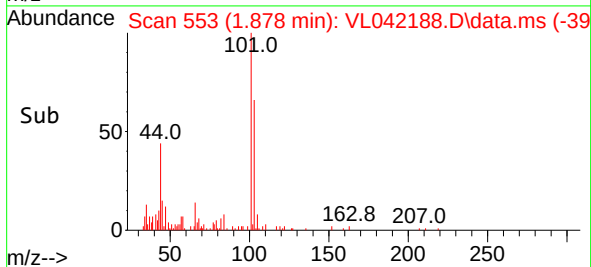
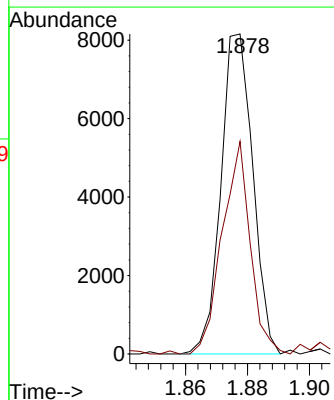
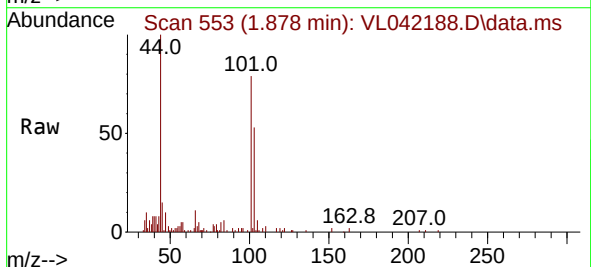
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AA-1-3262025

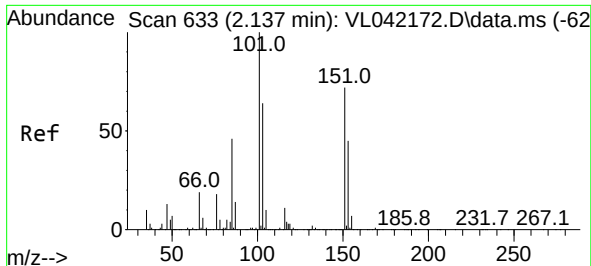
Tgt Ion: 43 Resp: 1567  
 Ion Ratio Lower Upper  
 43 100  
 57 90.7 39.4 59.2#



#11  
 Trichlorofluoromethane  
 Concen: 0.219 ppbv  
 RT: 1.878 min Scan# 553  
 Delta R.T. 0.003 min  
 Lab File: VL042188.D  
 Acq: 27 Mar 2025 20:12

Tgt Ion: 101 Resp: 5846  
 Ion Ratio Lower Upper  
 101 100  
 103 66.4 50.2 75.2

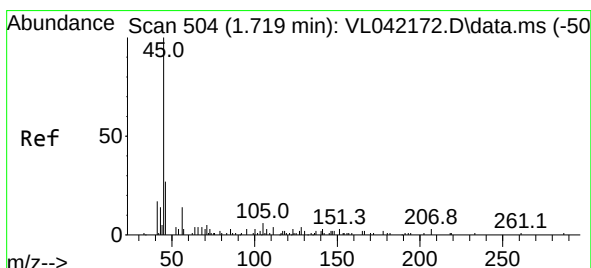
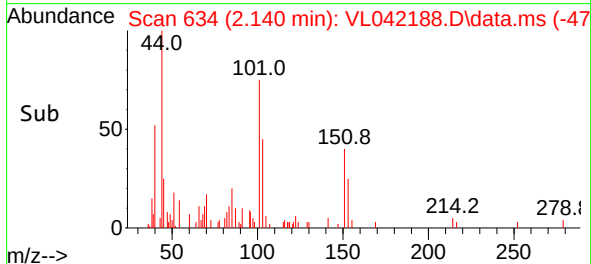
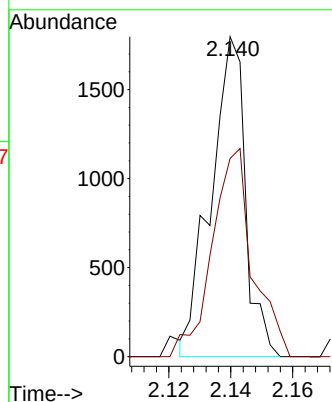
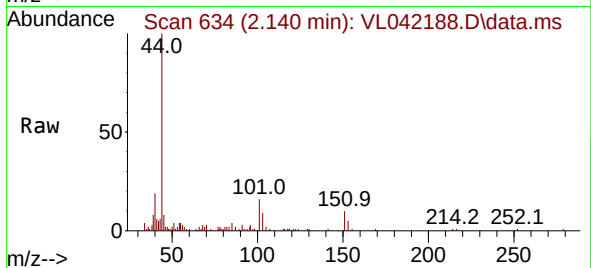




#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.064 ppbv  
RT: 2.140 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

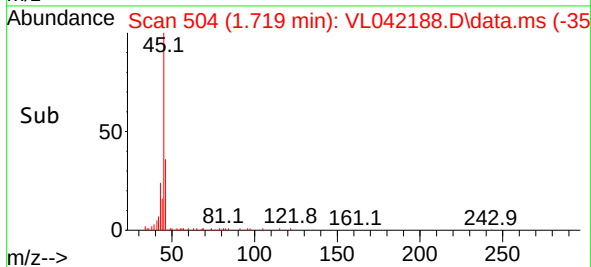
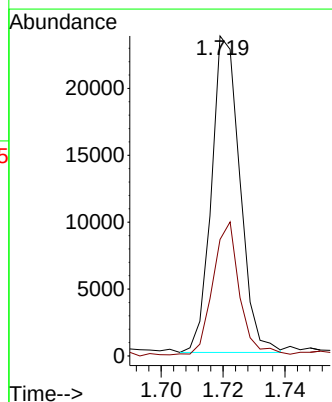
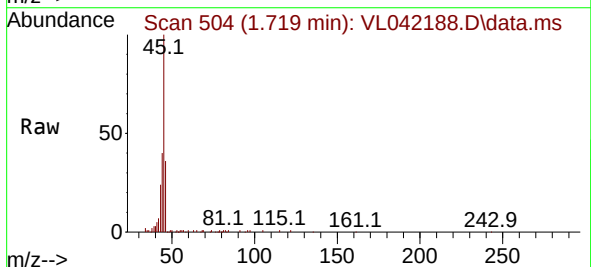
Instrument :  
MSVOA\_1  
ClientSampleId :  
AA-1-3262025

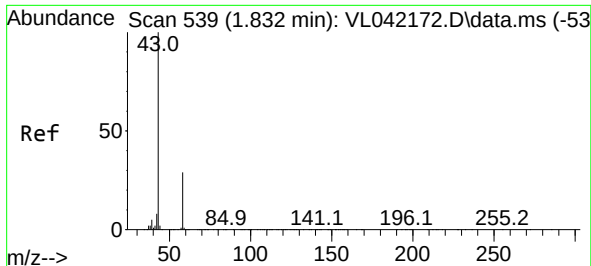
Tgt Ion:101 Resp: 1399  
Ion Ratio Lower Upper  
101 100  
151 75.7 57.1 85.7



#13  
Ethanol  
Concen: 12.408 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

Tgt Ion: 45 Resp: 15071  
Ion Ratio Lower Upper  
45 100  
46 45.5 20.2 80.8





#15

Acetone

Concen: 3.220 ppbv

RT: 1.836 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042188.D

Acq: 27 Mar 2025 20:12

Instrument :

MSVOA\_L

ClientSampleId :

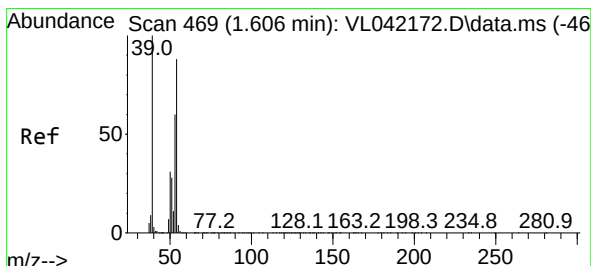
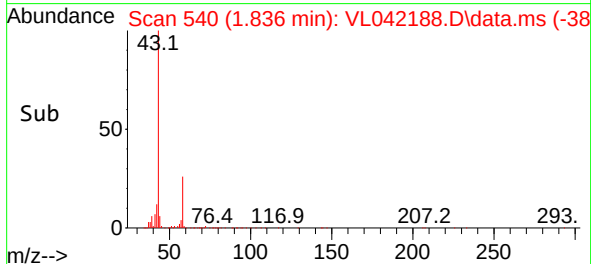
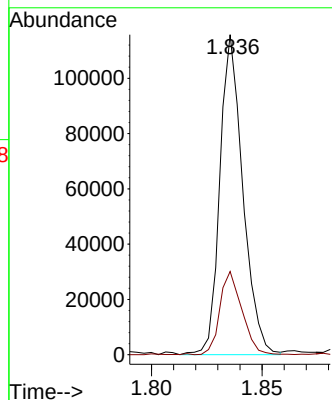
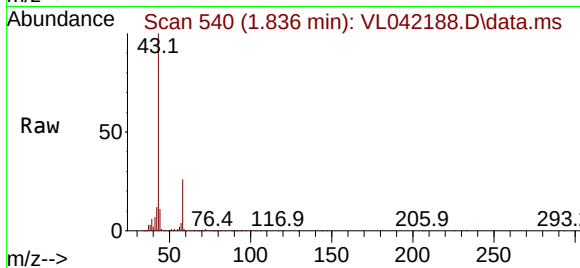
AA-1-3262025

Tgt Ion: 43 Resp: 83691

Ion Ratio Lower Upper

43 100

58 24.7 23.2 34.8



#16

1,3-Butadiene

Concen: 0.131 ppbv

RT: 1.599 min Scan# 467

Delta R.T. -0.007 min

Lab File: VL042188.D

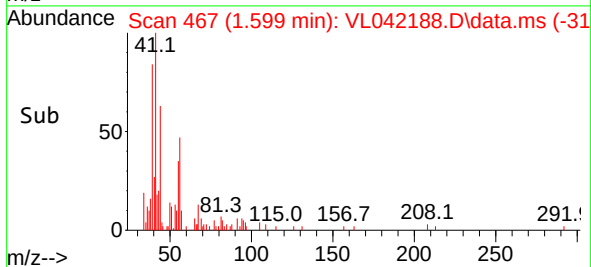
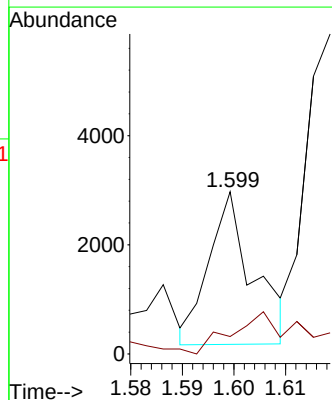
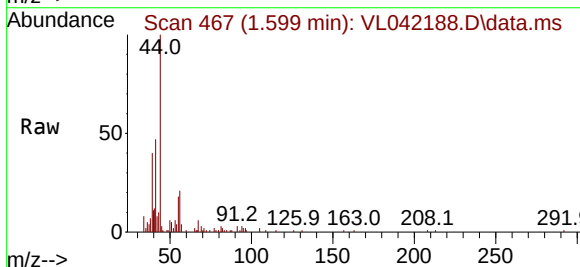
Acq: 27 Mar 2025 20:12

Tgt Ion: 39 Resp: 1660

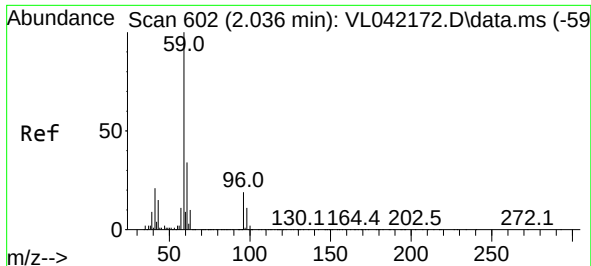
Ion Ratio Lower Upper

39 100

54 49.1 60.7 91.1#



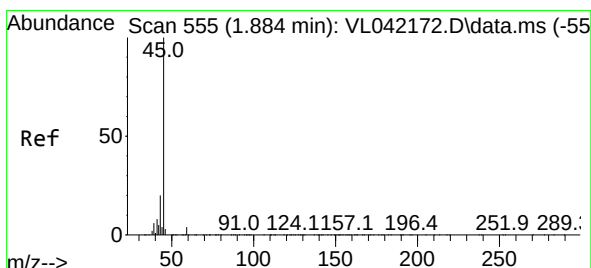
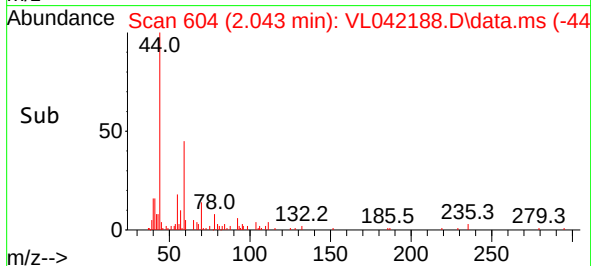
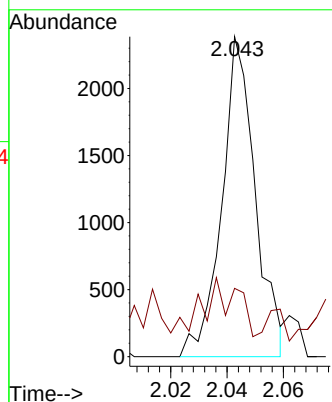
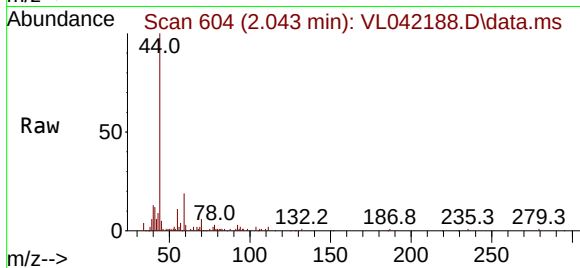




#17  
tert-Butyl alcohol  
Concen: 0.061 ppbv  
RT: 2.043 min Scan# 602  
Delta R.T. 0.006 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

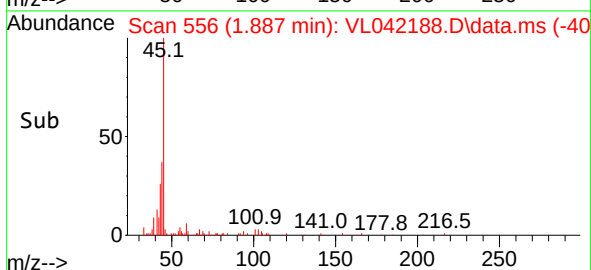
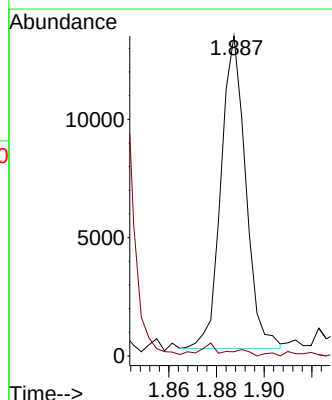
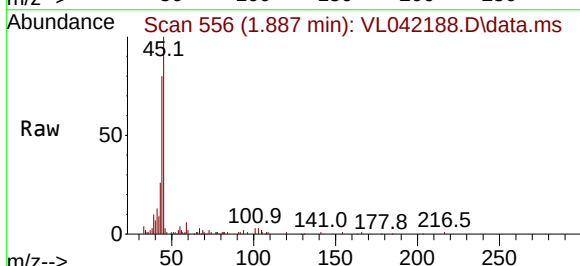
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

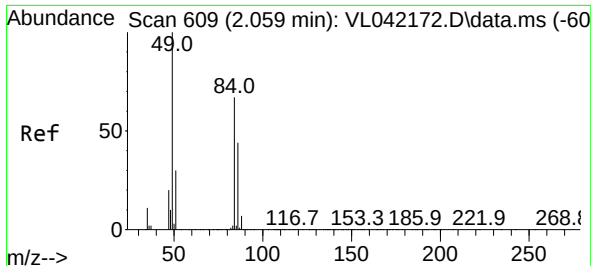
Tgt Ion: 59 Resp: 1963  
Ion Ratio Lower Upper  
59 100  
57 30.9 8.9 13.3#



#19  
Isopropyl Alcohol  
Concen: 0.650 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

Tgt Ion: 45 Resp: 9528  
Ion Ratio Lower Upper  
45 100  
58 223.8 36.9 55.3#

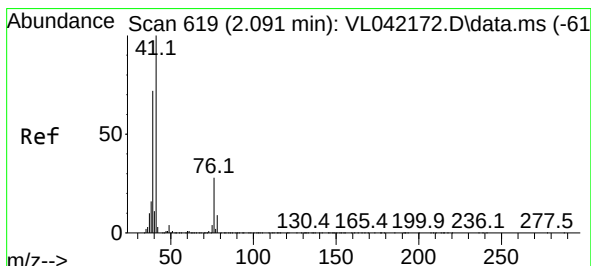
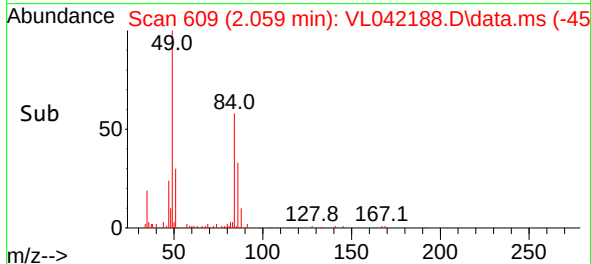
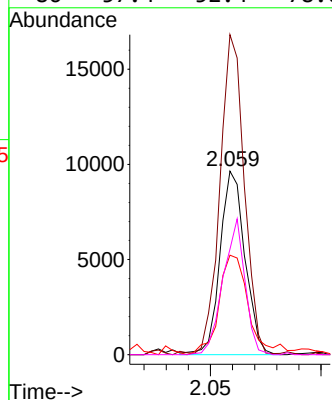
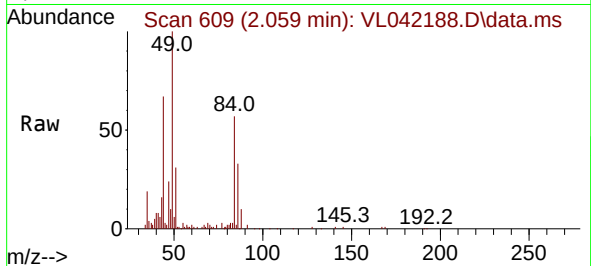




#20  
Methylene Chloride  
Concen: 0.783 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

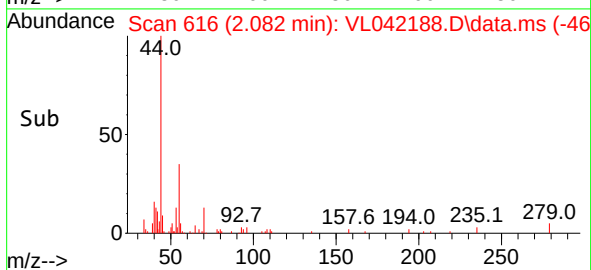
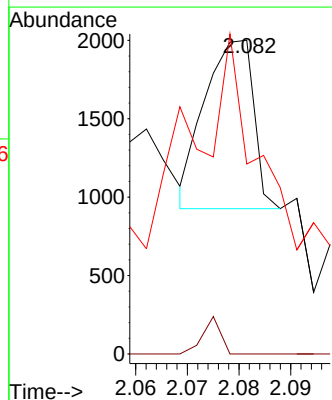
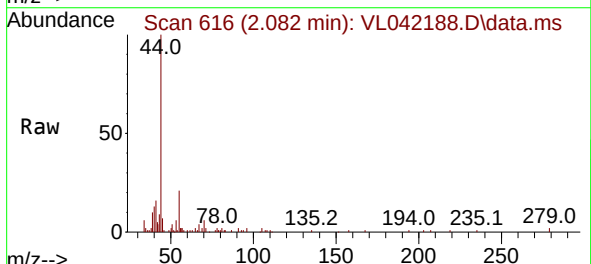
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

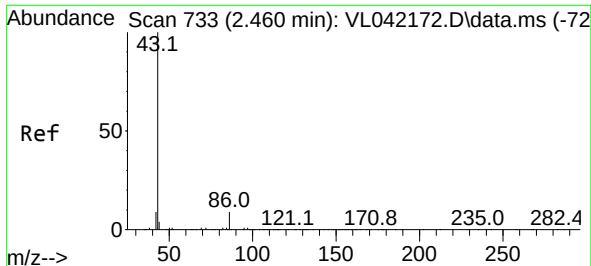
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 7575  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 173.6 | 120.2 | 180.4 |
| 51       | 53.1  | 37.4  | 56.0  |
| 86       | 57.4  | 52.4  | 78.6  |



#21  
Allyl Chloride  
Concen: 0.039 ppbv  
RT: 2.082 min Scan# 616  
Delta R.T. -0.010 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 706   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 0.0   | 24.1  | 36.1# |
| 39       | 259.5 | 61.1  | 91.7# |

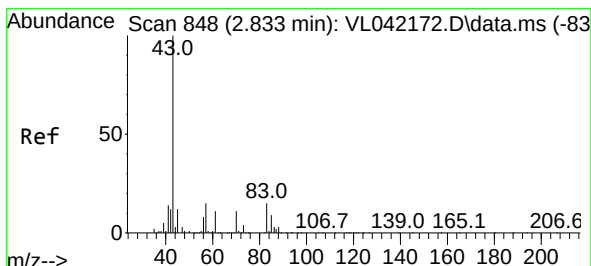
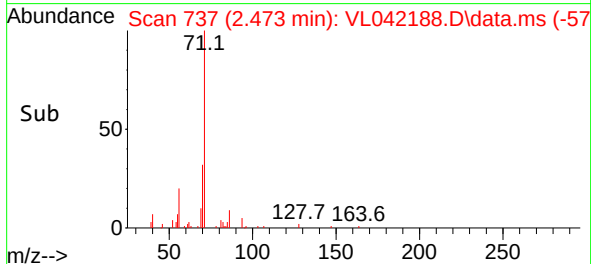
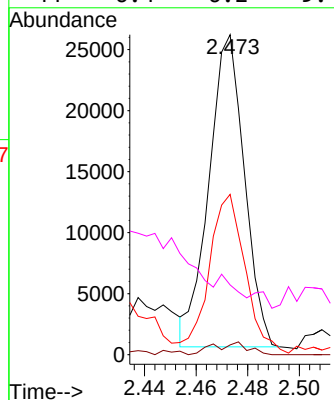
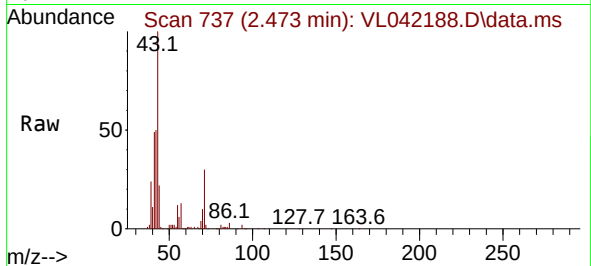




#23  
Vinyl Acetate  
Concen: 2.167 ppbv  
RT: 2.473 min Scan# 71  
Delta R.T. 0.013 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

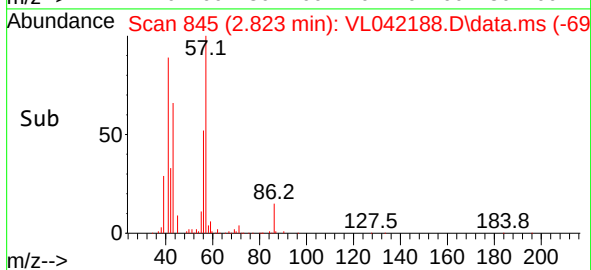
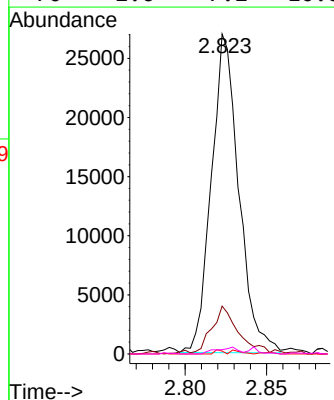
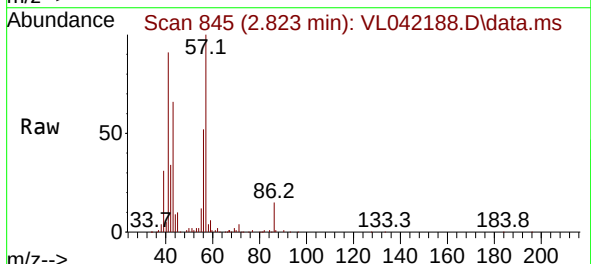
Instrument :  
MSVOA\_1  
ClientSampleId :  
AA-1-3262025

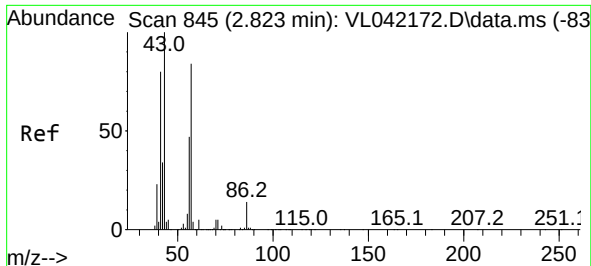
|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 24377    |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 86          | 3.1 5.5 8.3#   |
| 42          | 49.6 8.6 13.0# |
| 44          | 6.4 6.2 9.4    |



#25  
Ethyl Acetate  
Concen: 0.468 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.010 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 31575    |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 45          | 16.1 8.2 12.2# |
| 61          | 1.1 7.3 10.9#  |
| 70          | 2.6 7.2 10.8#  |

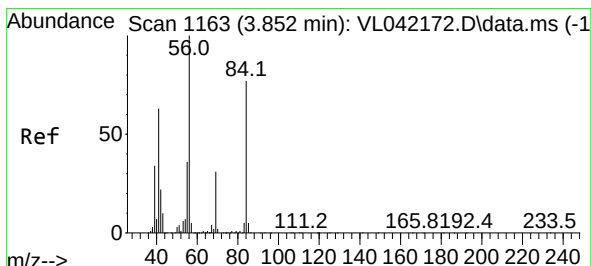
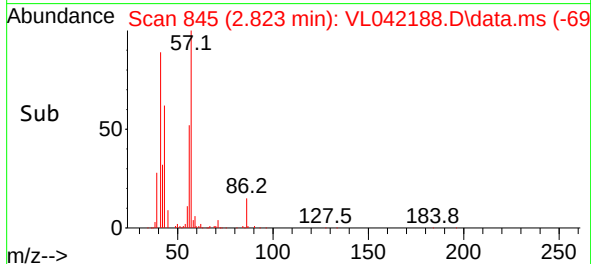
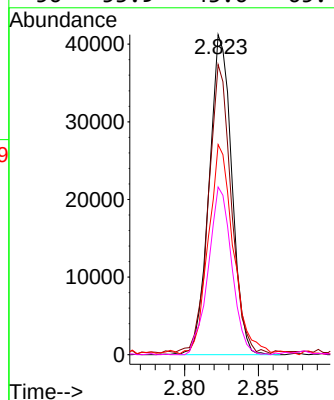
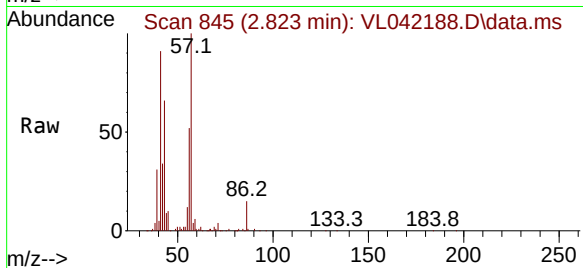




#26  
Hexane  
Concen: 1.696 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

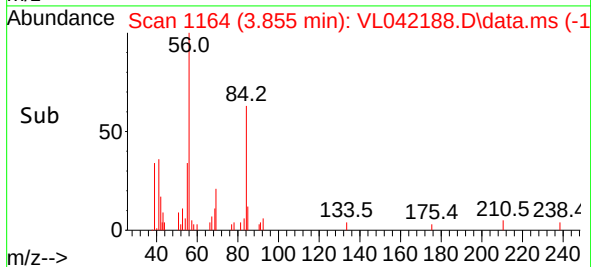
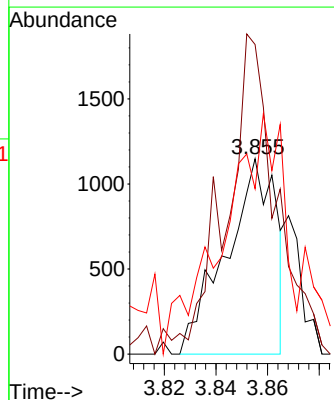
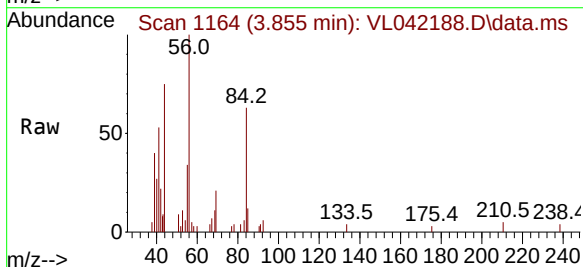
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

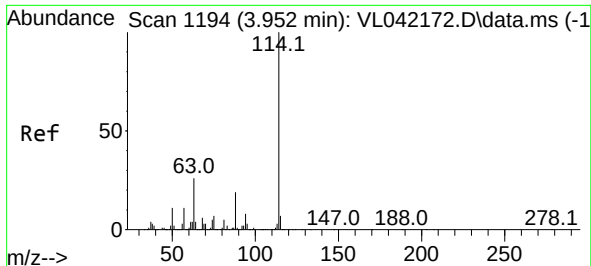
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 44184  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 91.3  | 76.6  | 114.8  |
| 43       | 74.7  | 207.8 | 311.8# |
| 56       | 53.9  | 43.6  | 65.4   |



#30  
Cyclohexane  
Concen: 0.068 ppbv  
RT: 3.855 min Scan# 1164  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 1537   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 56       | 172.0 | 102.8 | 154.2# |
| 41       | 160.4 | 66.5  | 99.7#  |

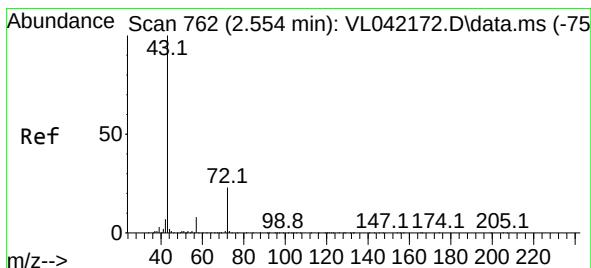
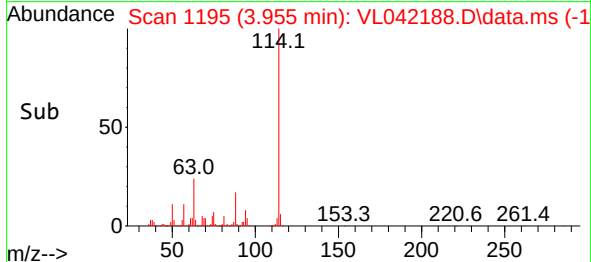
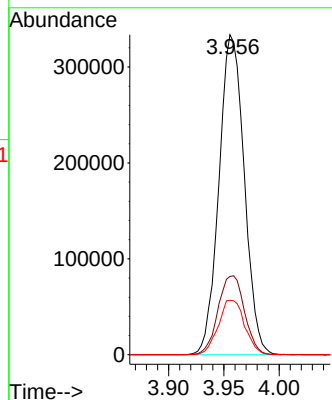
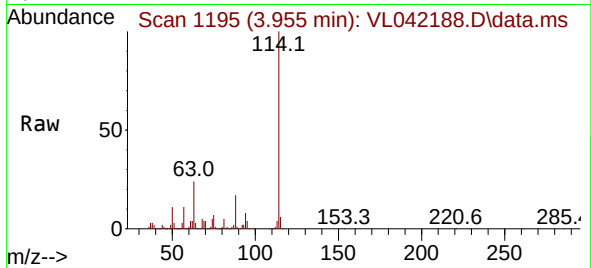




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.955 min Scan# 1195  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

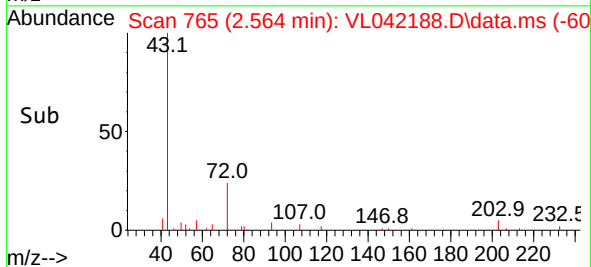
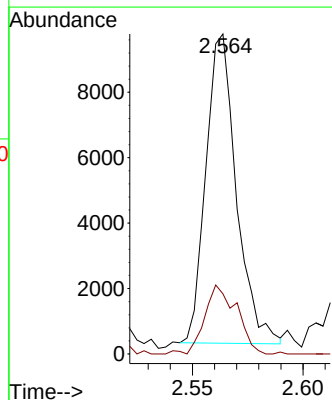
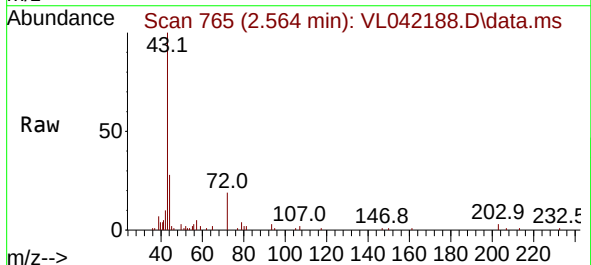
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

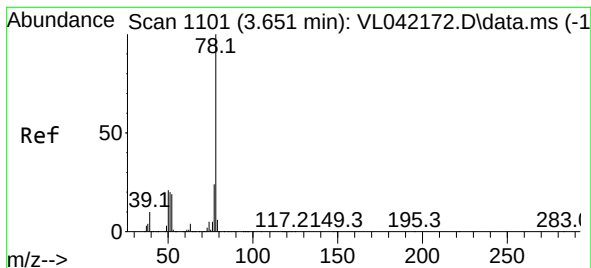
Tgt Ion:114 Resp: 529516  
Ion Ratio Lower Upper  
114 100  
63 25.8 20.7 31.1  
88 17.8 15.0 22.4



#34  
2-Butanone  
Concen: 0.236 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.010 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

Tgt Ion: 43 Resp: 9069  
Ion Ratio Lower Upper  
43 100  
72 23.6 18.2 27.2





#36

Benzene

Concen: 0.307 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VL042188.D

Acq: 27 Mar 2025 20:12

Instrument :

MSVOA\_L

ClientSampleId :

AA-1-3262025

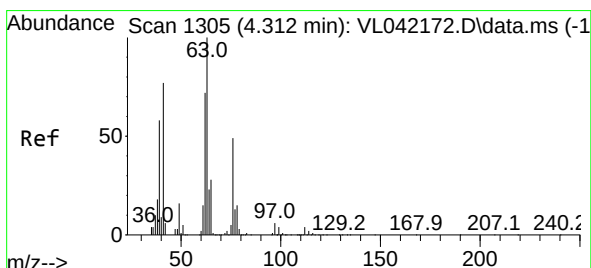
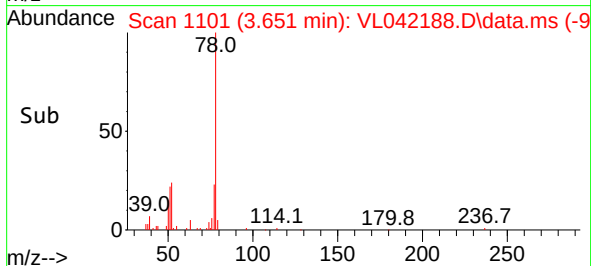
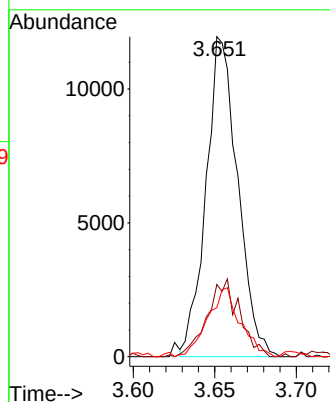
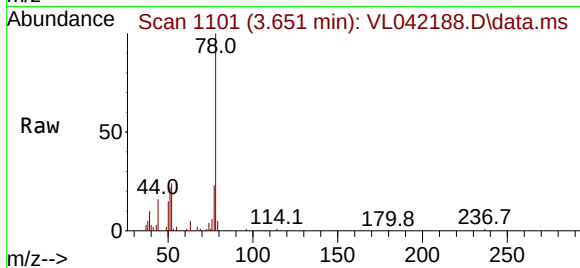
Tgt Ion: 78 Resp: 16130

Ion Ratio Lower Upper

78 100

77 22.6 19.1 28.7

50 14.8 16.6 24.8#



#39

1,2-Dichloropropane

Concen: 7.149 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042188.D

Acq: 27 Mar 2025 20:12

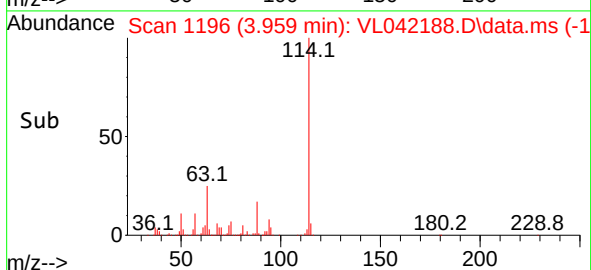
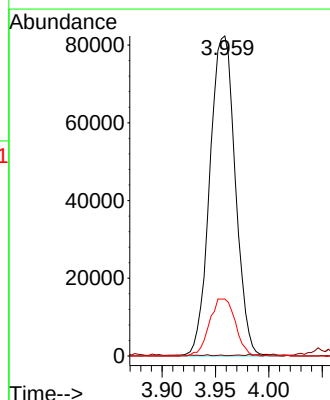
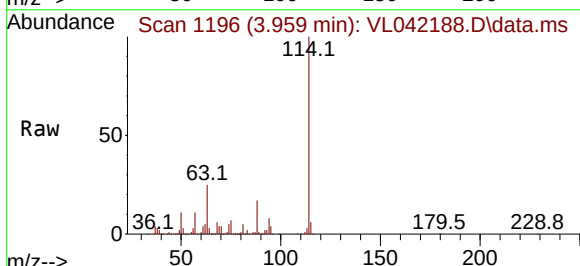
Tgt Ion: 63 Resp: 136667

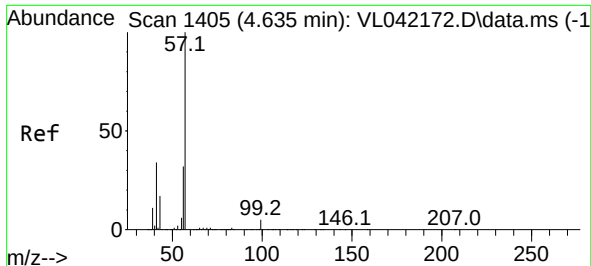
Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 17.8 57.6 86.4#

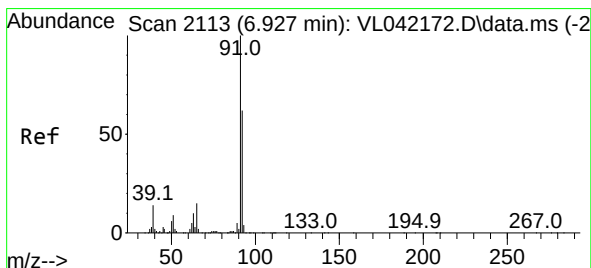
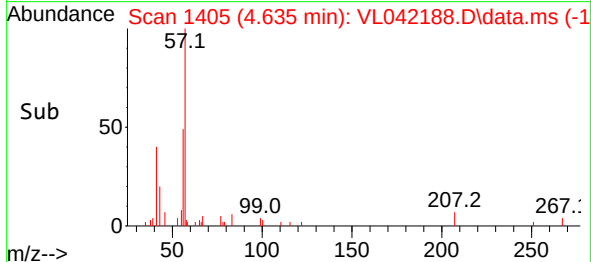
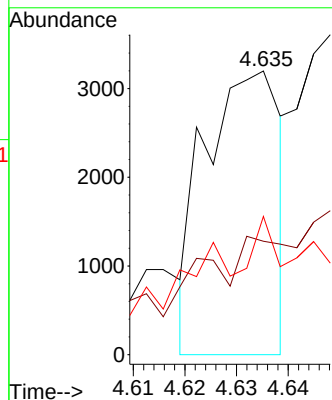
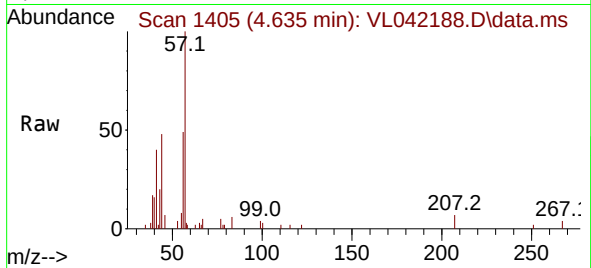




#44  
2,2,4-Trimethylpentane  
Concen: 0.037 ppbv  
RT: 4.635 min Scan# 1405  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

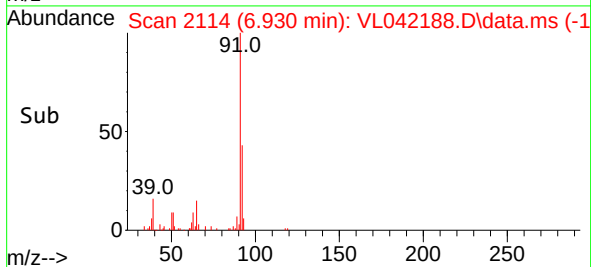
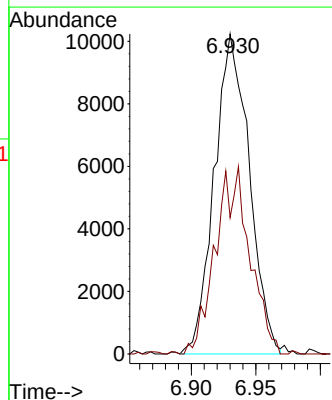
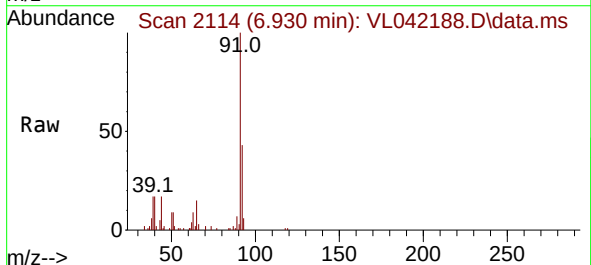
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

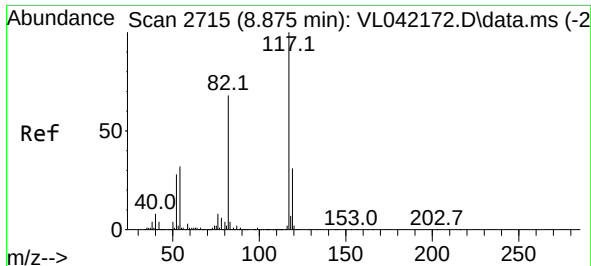
Tgt Ion: 57 Resp: 3242  
Ion Ratio Lower Upper  
57 100  
41 0.0 26.8 40.2#  
56 122.0 25.6 38.4#



#53  
Toluene  
Concen: 0.309 ppbv  
RT: 6.930 min Scan# 2114  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

Tgt Ion: 91 Resp: 19259  
Ion Ratio Lower Upper  
91 100  
92 58.4 48.4 72.6

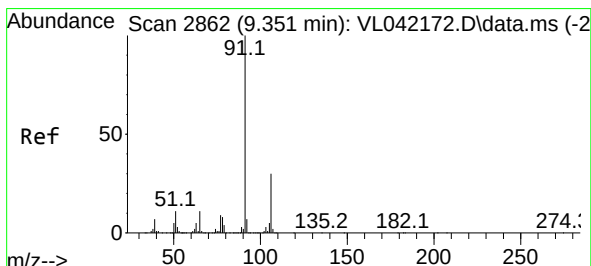
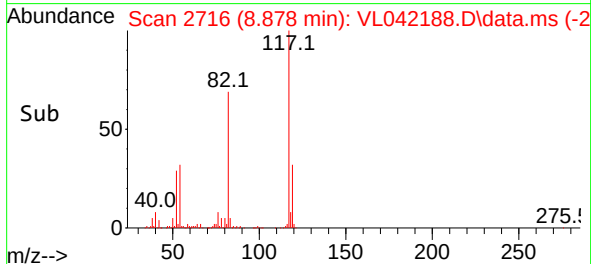
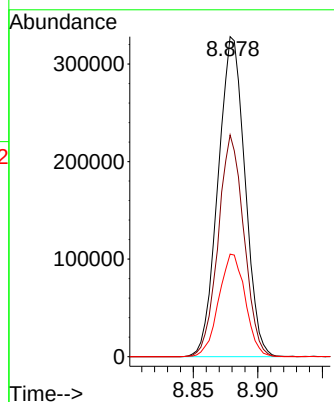
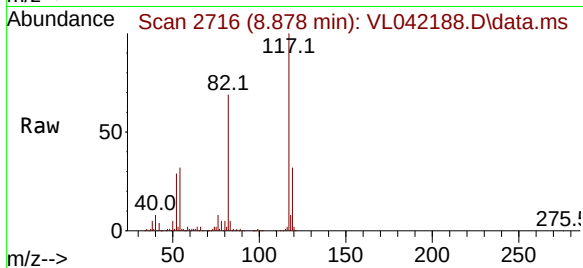




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

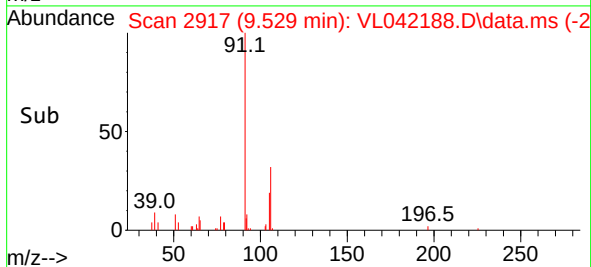
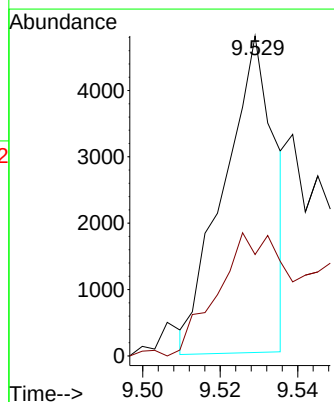
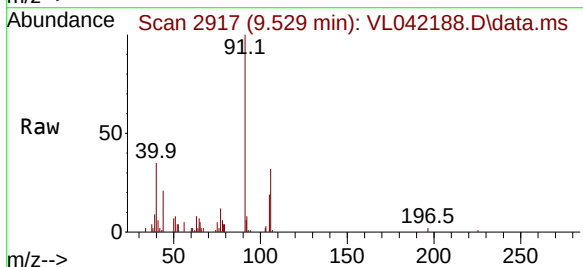
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1-3262025

Tgt Ion:117 Resp: 474604  
Ion Ratio Lower Upper  
117 100  
82 66.3 55.8 83.6  
119 31.6 25.5 38.3

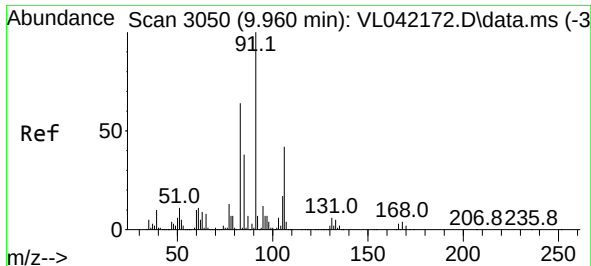


#58  
Ethyl Benzene  
Concen: 0.052 ppbv  
RT: 9.529 min Scan# 2917  
Delta R.T. 0.178 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

Tgt Ion: 91 Resp: 4355  
Ion Ratio Lower Upper  
91 100  
106 30.4 24.2 36.2



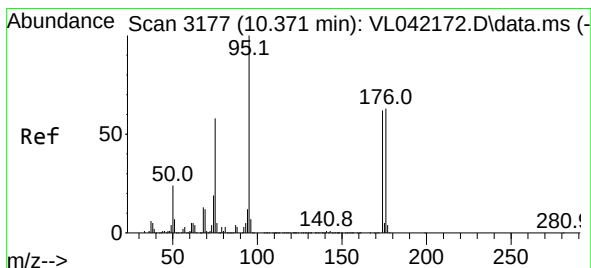
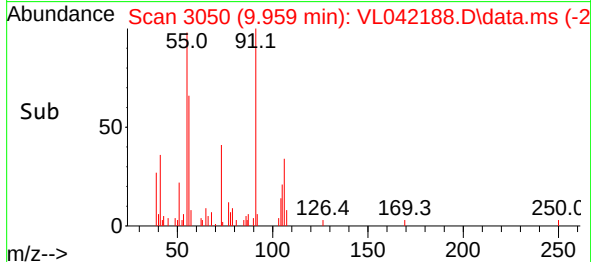
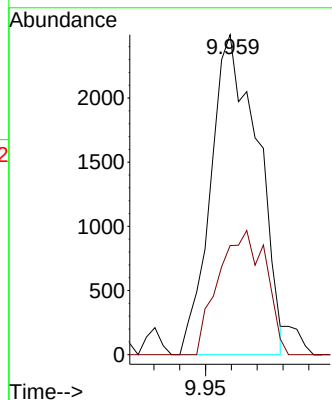
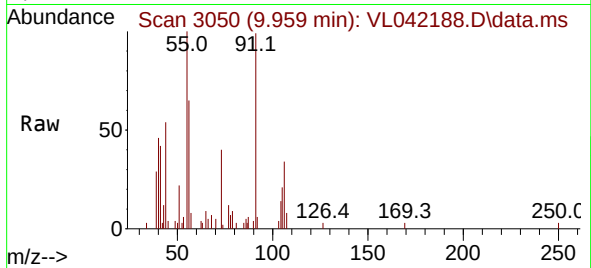




#60  
o-Xylene  
Concen: 0.047 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.000 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

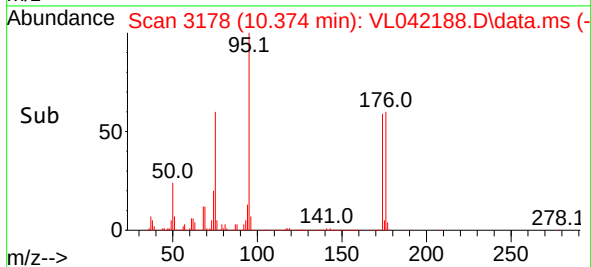
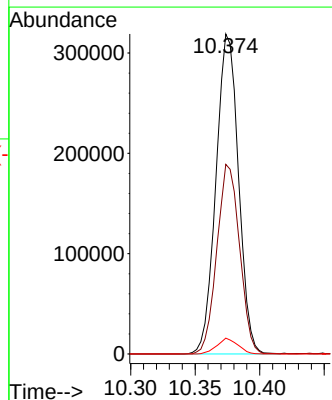
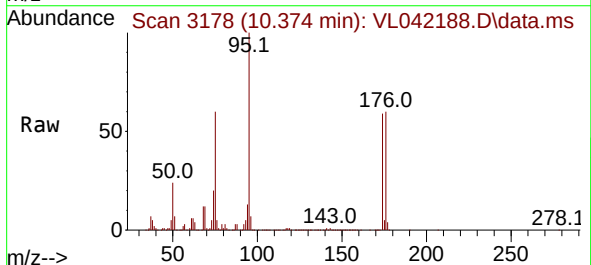
Instrument :  
MSVOA\_1  
ClientSampleId :  
AA-1-3262025

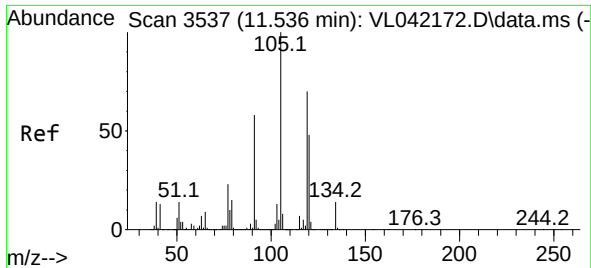
Tgt Ion: 91 Resp: 3145  
Ion Ratio Lower Upper  
91 100  
106 39.1 20.8 62.5



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.925 ppbv  
RT: 10.374 min Scan# 3178  
Delta R.T. 0.003 min  
Lab File: VL042188.D  
Acq: 27 Mar 2025 20:12

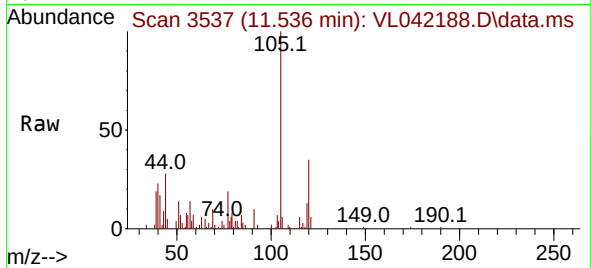
Tgt Ion: 95 Resp: 386837  
Ion Ratio Lower Upper  
95 100  
174 59.7 50.6 76.0  
175 4.6 3.8 5.6



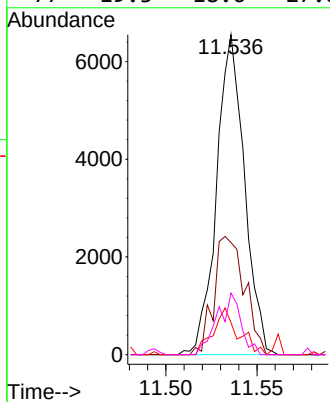
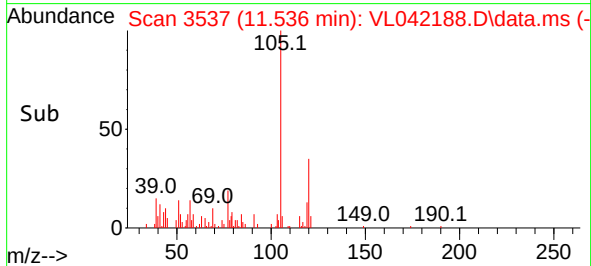


#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.082 ppbv  
 RT: 11.536 min Scan# 31  
 Delta R.T. -0.000 min  
 Lab File: VL042188.D  
 Acq: 27 Mar 2025 20:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AA-1-3262025



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 6973  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 35.0  | 38.6  | 58.0# |
| 91       | 9.9   | 46.2  | 69.2# |
| 77       | 19.3  | 18.6  | 27.8  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042189.D  
 Acq On : 27 Mar 2025 20:48  
 Operator : SY/MD  
 Sample : Q1669-09  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AA-2-3262025

Quant Time: Mar 28 02:17:14 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

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 185013   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 523099   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 477151   | 10.000 | ppbv  | 0.00     |

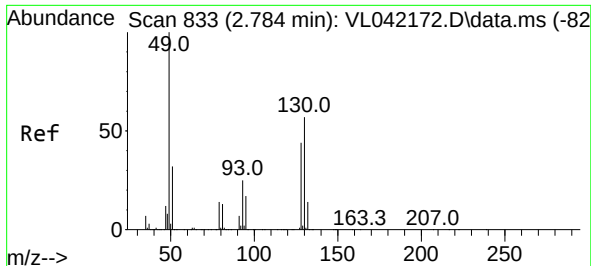
|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 387301   | 9.884    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.800% |

| Target Compounds              |        |     |        |       |        | Qvalue |
|-------------------------------|--------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499  | 85  | 12204  | 0.447 | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.476  | 51  | 11994  | 0.430 | ppbv # | 85     |
| 4) Chloromethane              | 1.531  | 50  | 4911   | 0.440 | ppbv   | 91     |
| 6) Bromomethane               | 1.664  | 94  | 236    | 0.047 | ppbv # | 4      |
| 9) Propene                    | 1.619  | 41  | 5365   | 0.419 | ppbv   | 96     |
| 11) Trichlorofluoromethane    | 1.878  | 101 | 5874   | 0.221 | ppbv   | 88     |
| 12) 1,1,2-Trichlorotrifluo... | 2.136  | 101 | 1274   | 0.058 | ppbv   | 86     |
| 13) Ethanol                   | 1.722  | 45  | 10166  | 8.407 | ppbv # | 27     |
| 15) Acetone                   | 1.835  | 43  | 63981  | 2.473 | ppbv   | 97     |
| 16) 1,3-Butadiene             | 1.599  | 39  | 831    | 0.066 | ppbv # | 11     |
| 19) Isopropyl Alcohol         | 1.722  | 45  | 10166  | 0.696 | ppbv # | 57     |
| 20) Methylene Chloride        | 2.062  | 84  | 67627  | 7.018 | ppbv   | 95     |
| 23) Vinyl Acetate             | 2.454  | 43  | 906    | 0.081 | ppbv # | 23     |
| 25) Ethyl Acetate             | 2.826  | 43  | 78801  | 1.173 | ppbv # | 79     |
| 26) Hexane                    | 2.826  | 57  | 116880 | 4.506 | ppbv # | 31     |
| 34) 2-Butanone                | 2.567  | 43  | 6879   | 0.181 | ppbv   | 96     |
| 35) Carbon Tetrachloride      | 3.764  | 117 | 1236   | 0.030 | ppbv # | 61     |
| 36) Benzene                   | 3.654  | 78  | 6925   | 0.134 | ppbv # | 90     |
| 39) 1,2-Dichloropropane       | 3.959  | 63  | 135050 | 7.151 | ppbv # | 22     |
| 41) Tetrahydrofuran           | 3.224  | 42  | 6258   | 0.287 | ppbv # | 38     |
| 53) Toluene                   | 6.933  | 91  | 20704  | 0.337 | ppbv   | 99     |
| 58) Ethyl Benzene             | 9.532  | 91  | 4747   | 0.056 | ppbv   | 92     |
| 64) n-propylbenzene           | 10.989 | 120 | 1201   | 0.046 | ppbv   | 84     |
| 65) tert-Butylbenzene         | 11.539 | 119 | 3276   | 0.035 | ppbv # | 64     |
| 72) 4-Ethyltoluene            | 11.128 | 105 | 7264   | 0.086 | ppbv # | 92     |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105 | 7241   | 0.098 | ppbv   | 88     |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105 | 24773  | 0.291 | ppbv # | 65     |
| 75) 1,3-Dichlorobenzene       | 11.672 | 146 | 1457   | 0.031 | ppbv   | 93     |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146 | 1457   | 0.031 | ppbv # | 68     |
| 77) 1,2-Dichlorobenzene       | 11.672 | 146 | 1457   | 0.032 | ppbv   | 91     |
| 79) Naphthalene               | 13.516 | 128 | 3117   | 0.034 | ppbv # | 88     |

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

- 1
- 2
- 3
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- 8
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- 17
- 18
- 19

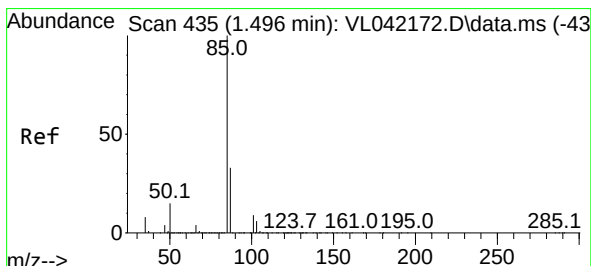
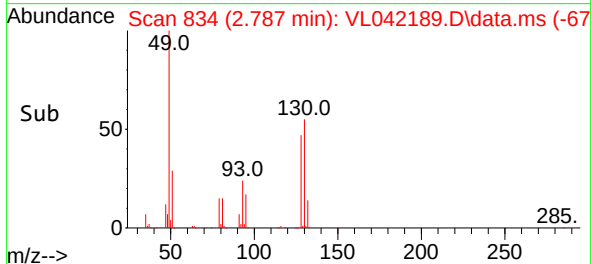
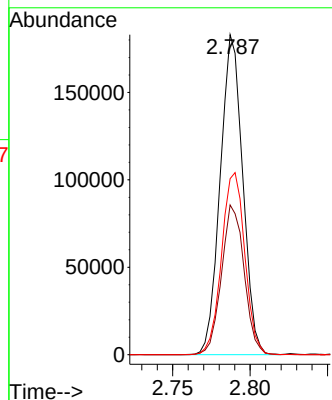
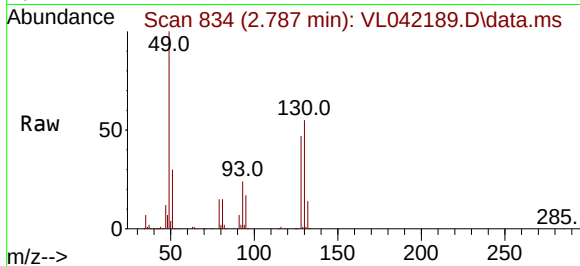
[illegible]



#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

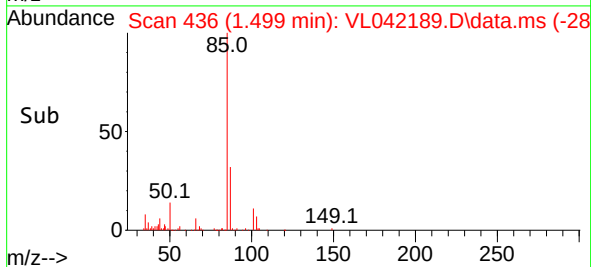
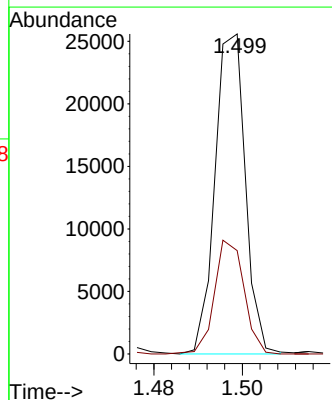
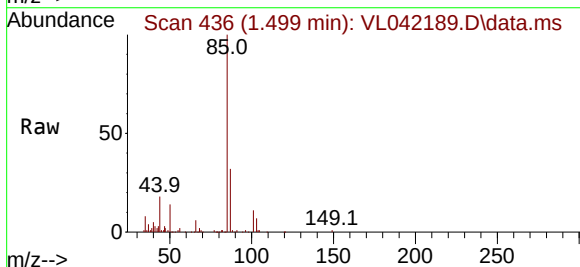
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

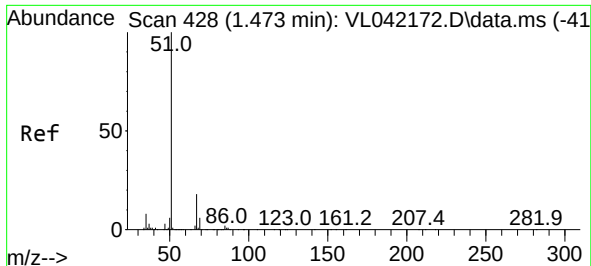
Tgt Ion: 49 Resp: 185013  
Ion Ratio Lower Upper  
49 100  
128 47.0 22.9 68.5  
130 58.7 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 0.447 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Tgt Ion: 85 Resp: 12204  
Ion Ratio Lower Upper  
85 100  
87 32.3 26.1 39.1

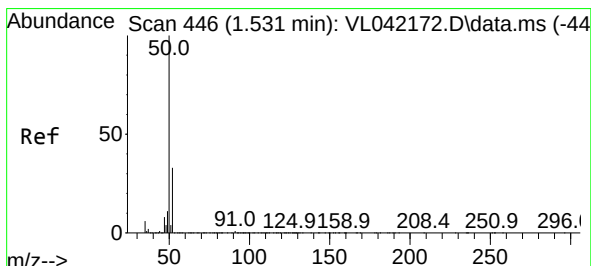
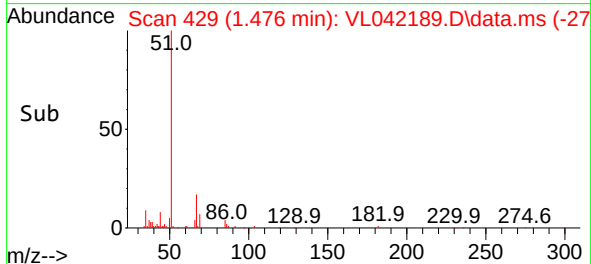
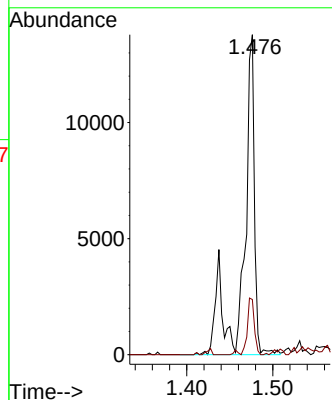
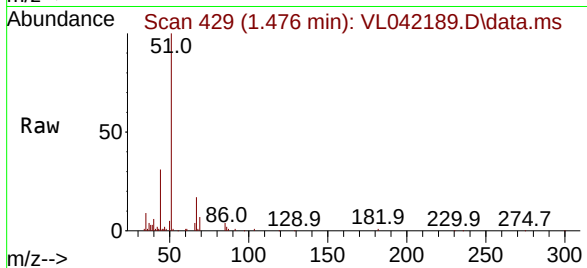




#3  
Chlorodifluoromethane  
Concen: 0.430 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

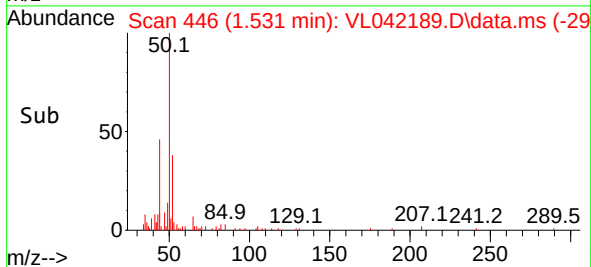
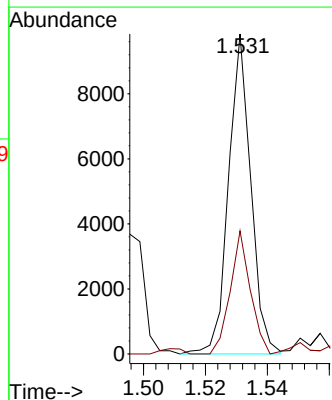
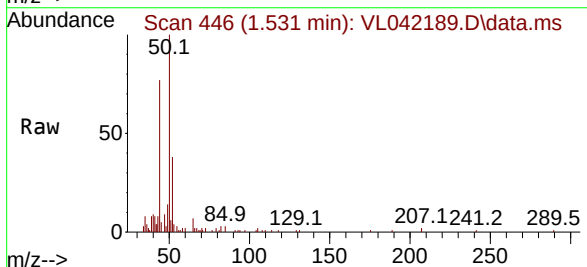
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

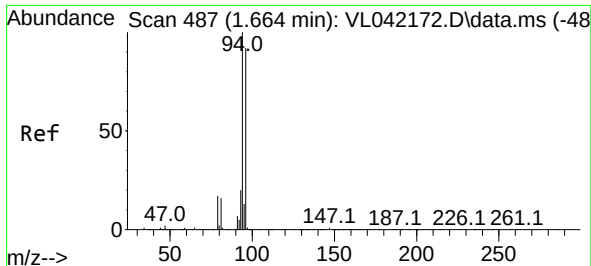
Tgt Ion: 51 Resp: 11994  
Ion Ratio Lower Upper  
51 100  
67 12.0 15.0 22.6#



#4  
Chloromethane  
Concen: 0.440 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Tgt Ion: 50 Resp: 4911  
Ion Ratio Lower Upper  
50 100  
52 37.7 26.1 39.1

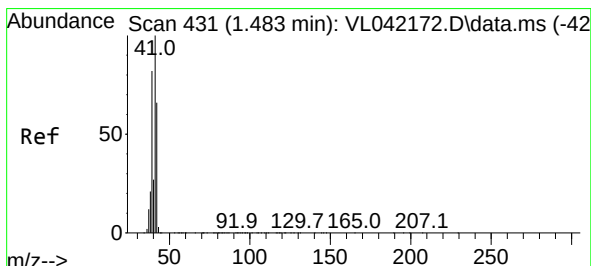
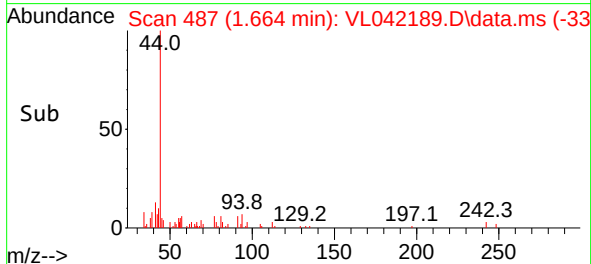
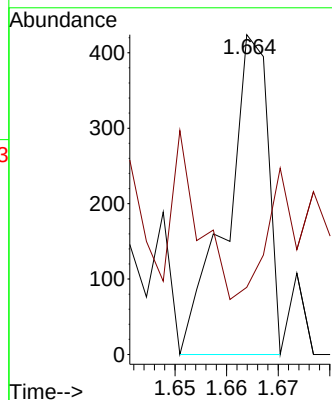
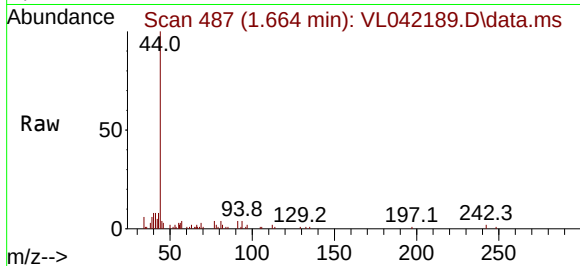




#6  
Bromomethane  
Concen: 0.047 ppbv  
RT: 1.664 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

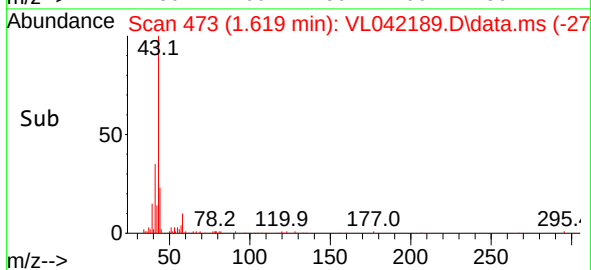
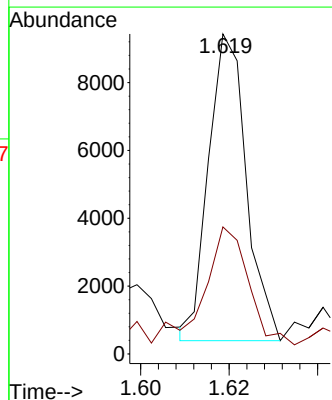
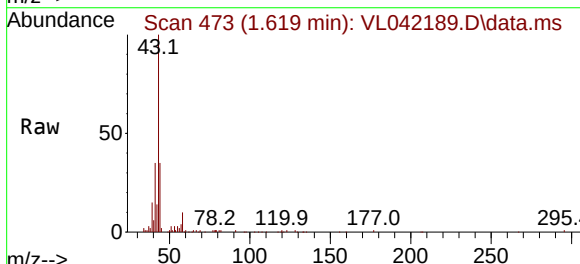
Instrument :  
MSVOA\_1  
ClientSampleId :  
AA-2-3262025

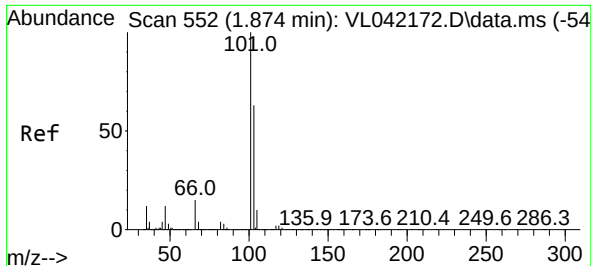
Tgt Ion: 94 Resp: 236  
Ion Ratio Lower Upper  
94 100  
96 0.0 73.1 109.7#



#9  
Propene  
Concen: 0.419 ppbv  
RT: 1.619 min Scan# 473  
Delta R.T. 0.136 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Tgt Ion: 41 Resp: 5365  
Ion Ratio Lower Upper  
41 100  
42 65.7 55.4 83.2

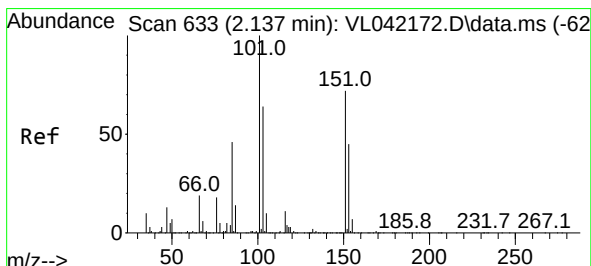
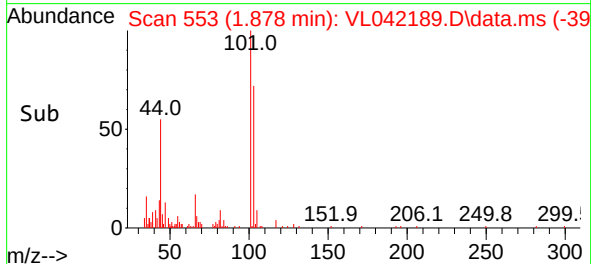
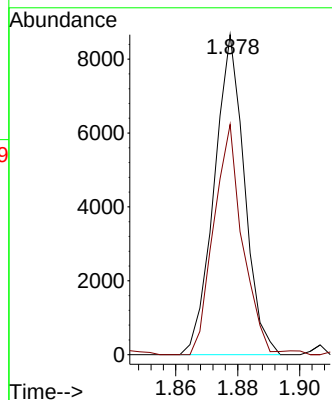
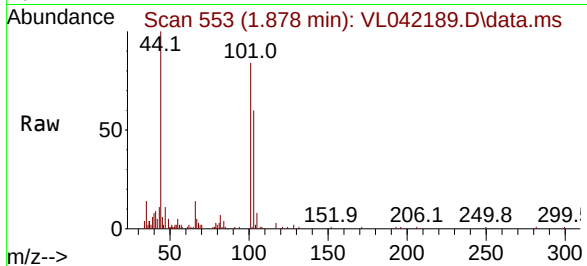




#11  
 Trichlorofluoromethane  
 Concen: 0.221 ppbv  
 RT: 1.878 min Scan# 511  
 Delta R.T. 0.003 min  
 Lab File: VL042189.D  
 Acq: 27 Mar 2025 20:48

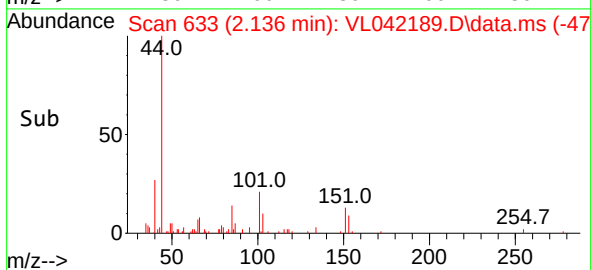
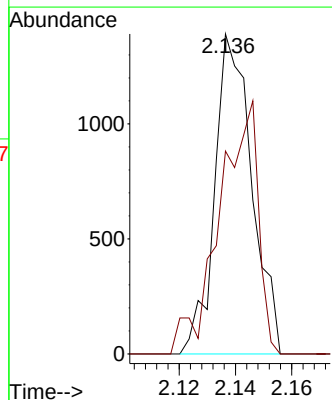
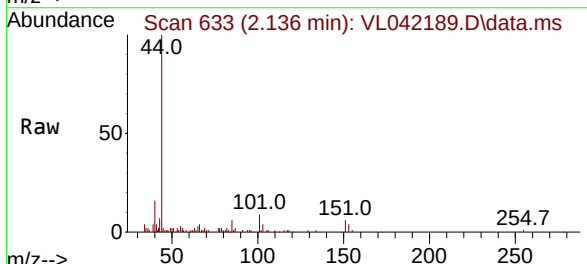
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AA-2-3262025

Tgt Ion:101 Resp: 5874  
 Ion Ratio Lower Upper  
 101 100  
 103 71.9 50.2 75.2

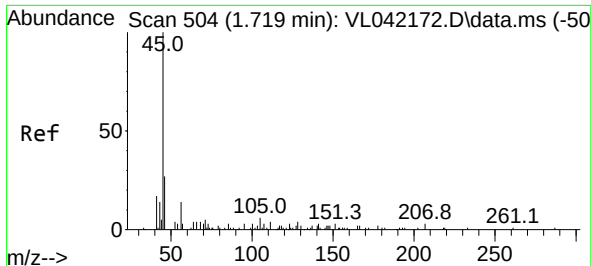


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.058 ppbv  
 RT: 2.136 min Scan# 633  
 Delta R.T. -0.000 min  
 Lab File: VL042189.D  
 Acq: 27 Mar 2025 20:48

Tgt Ion:101 Resp: 1274  
 Ion Ratio Lower Upper  
 101 100  
 151 82.8 57.1 85.7



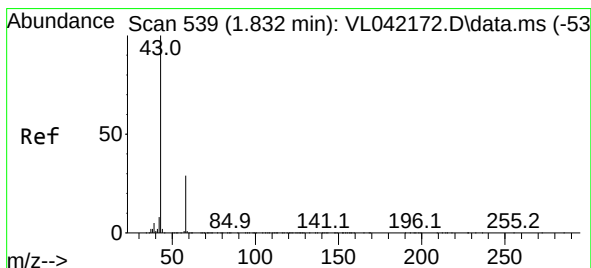
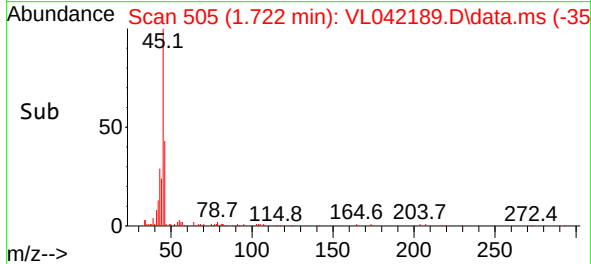
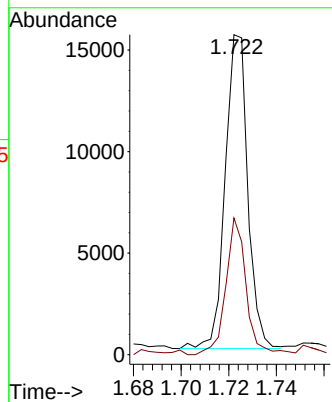
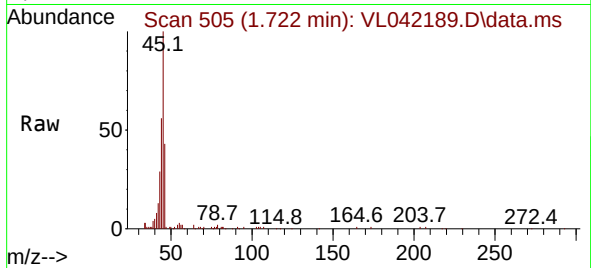




#13  
Ethanol  
Concen: 8.407 ppbv  
RT: 1.722 min Scan# 50  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

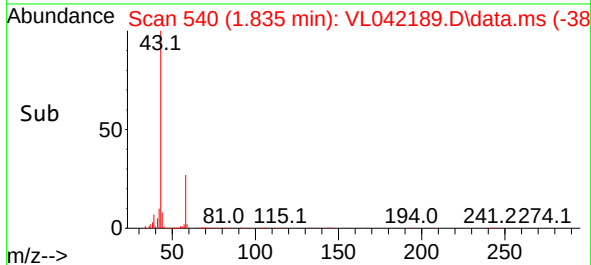
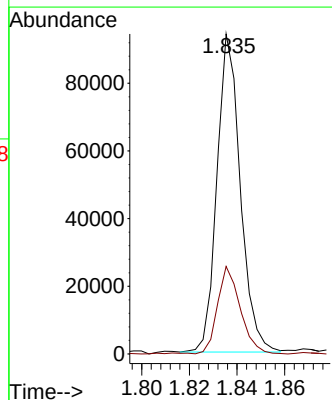
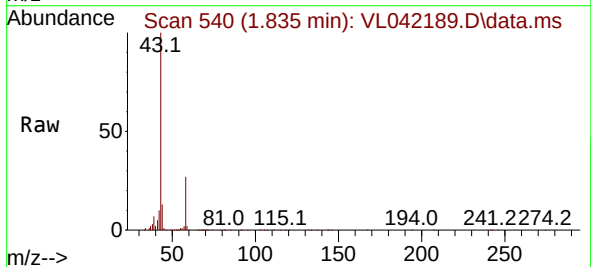
Instrument :  
MSVOA\_1  
ClientSampleId :  
AA-2-3262025

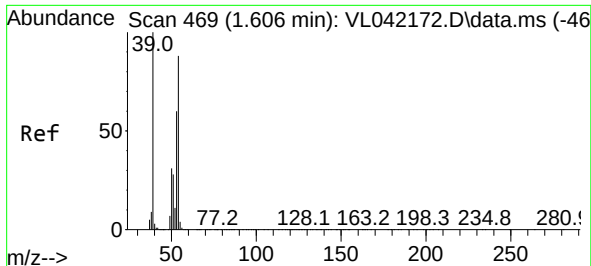
Tgt Ion: 45 Resp: 10166  
Ion Ratio Lower Upper  
45 100  
46 0.0 20.2 80.8#



#15  
Acetone  
Concen: 2.473 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Tgt Ion: 43 Resp: 63981  
Ion Ratio Lower Upper  
43 100  
58 27.4 23.2 34.8





#16

1,3-Butadiene

Concen: 0.066 ppbv

RT: 1.599 min Scan# 4

Delta R.T. -0.007 min

Lab File: VL042189.D

Acq: 27 Mar 2025 20:48

Instrument :

MSVOA\_L

ClientSampleId :

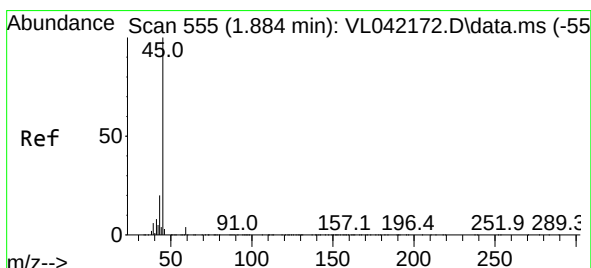
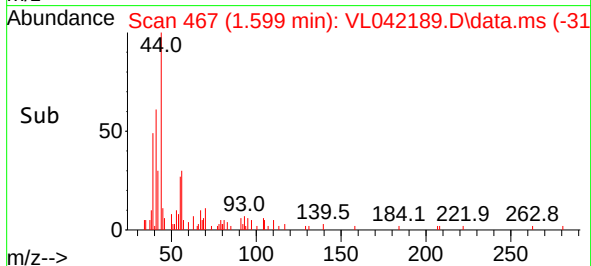
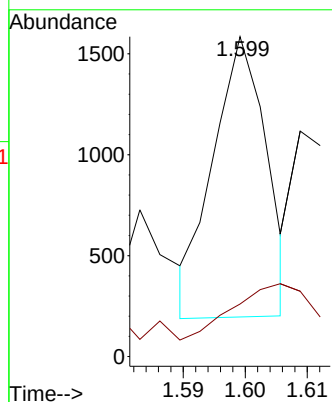
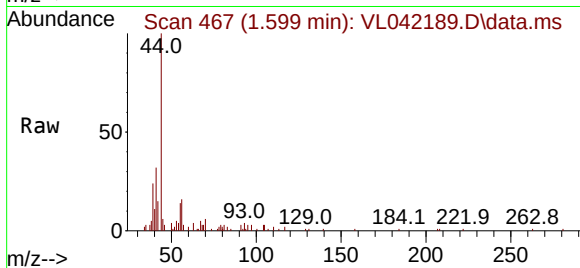
AA-2-3262025

Tgt Ion: 39 Resp: 831

Ion Ratio Lower Upper

39 100

54 0.0 60.7 91.1#



#19

Isopropyl Alcohol

Concen: 0.696 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.162 min

Lab File: VL042189.D

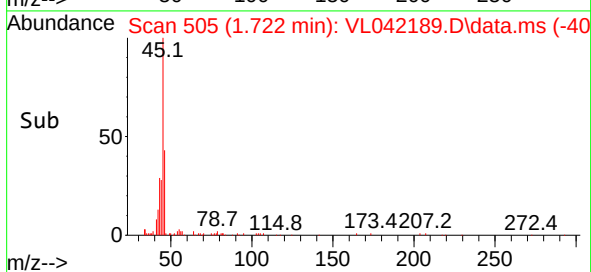
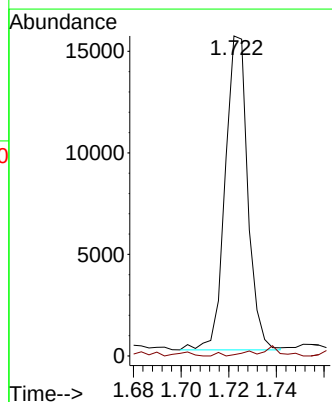
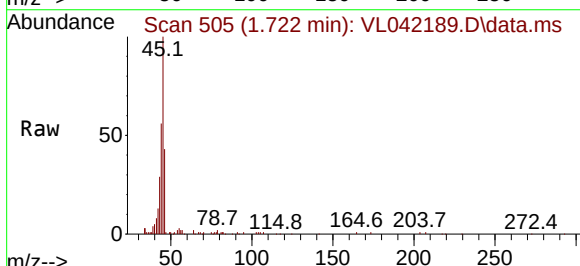
Acq: 27 Mar 2025 20:48

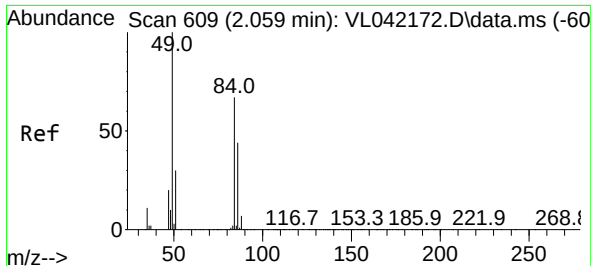
Tgt Ion: 45 Resp: 10166

Ion Ratio Lower Upper

45 100

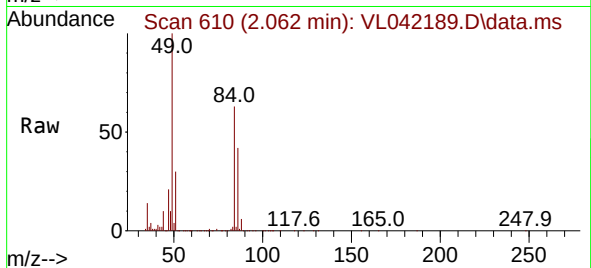
58 17.5 36.9 55.3#



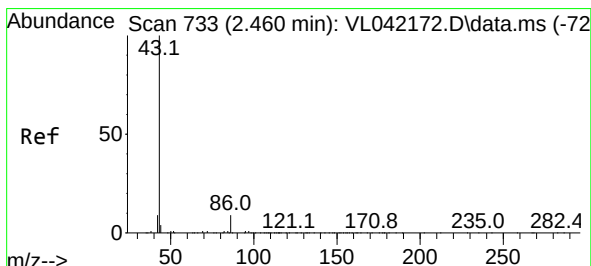
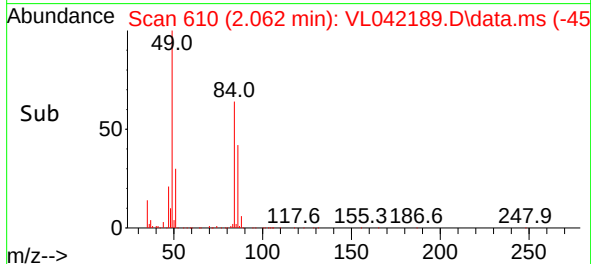
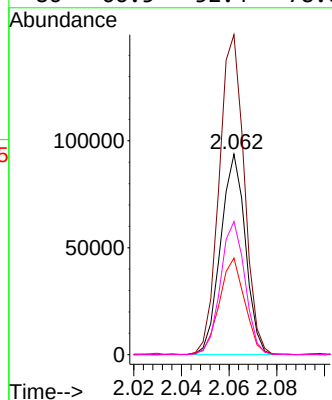


#20  
Methylene Chloride  
Concen: 7.018 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Instrument :  
MSVOA\_1  
ClientSampleId :  
AA-2-3262025

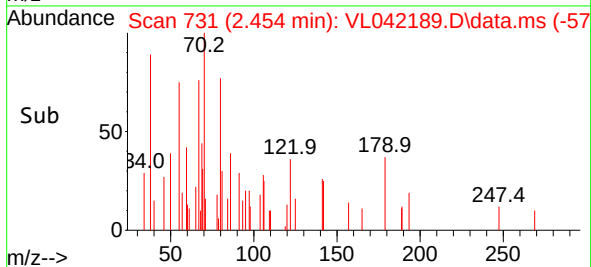
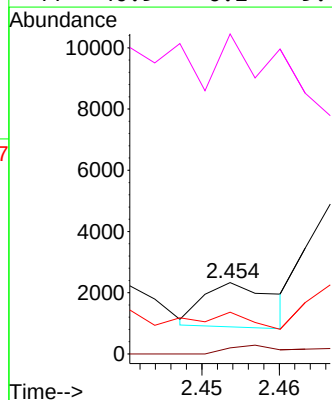
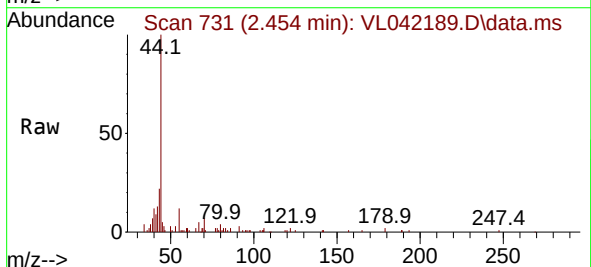


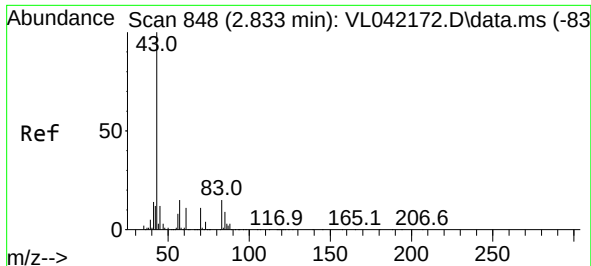
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 67627 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 159.6 | 120.2 | 180.4 |
| 51       | 48.2  | 37.4  | 56.0  |
| 86       | 66.5  | 52.4  | 78.6  |



#23  
Vinyl Acetate  
Concen: 0.081 ppbv  
RT: 2.454 min Scan# 731  
Delta R.T. -0.007 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 906   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 16.6  | 5.5   | 8.3#  |
| 42       | 46.6  | 8.6   | 13.0# |
| 44       | 40.9  | 6.2   | 9.4#  |

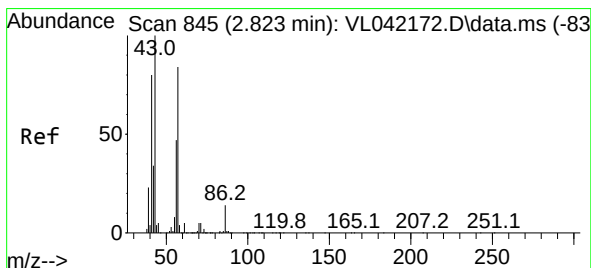
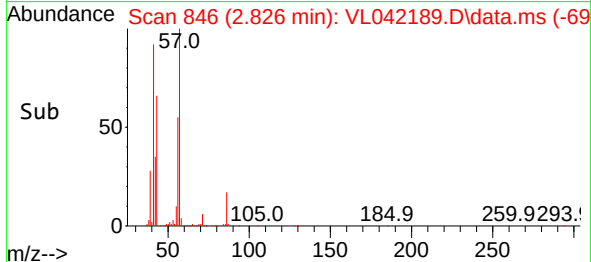
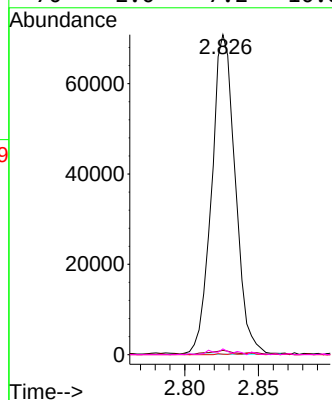
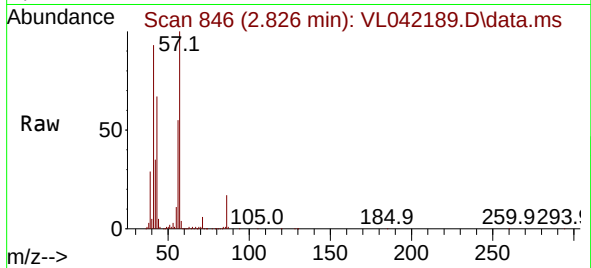




#25  
Ethyl Acetate  
Concen: 1.173 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.007 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

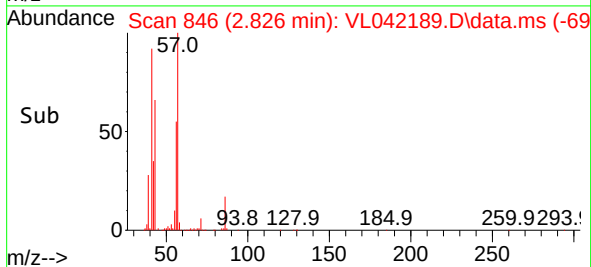
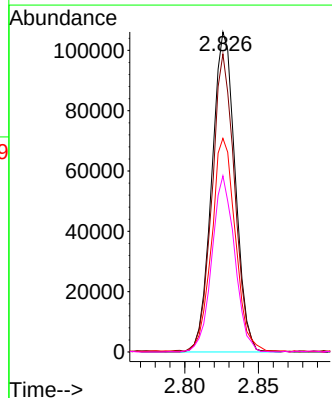
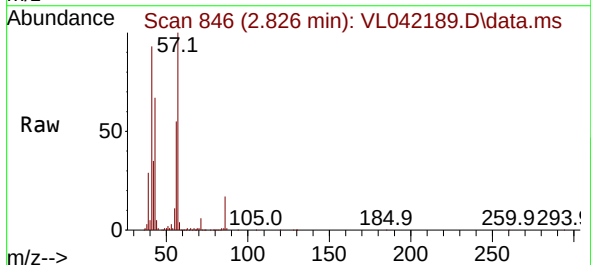
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

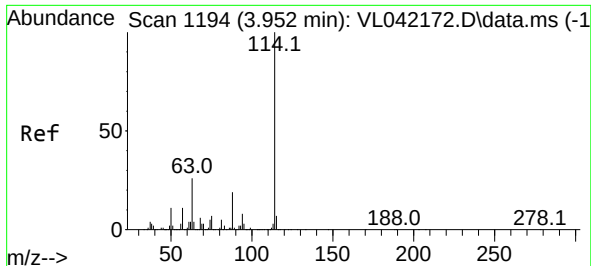
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 78801 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 2.2      | 8.2 12.2#   |
| 61 0.6      | 7.3 10.9#   |
| 70 2.0      | 7.2 10.8#   |



#26  
Hexane  
Concen: 4.506 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 116880 |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 90.1     | 76.6 114.8   |
| 43 68.0     | 207.8 311.8# |
| 56 53.9     | 43.6 65.4    |

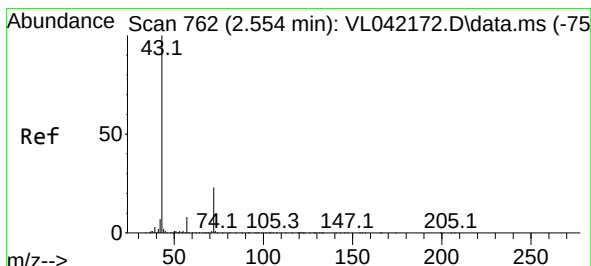
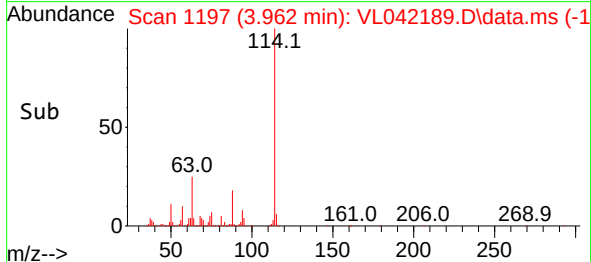
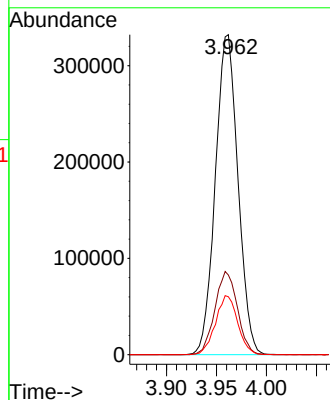
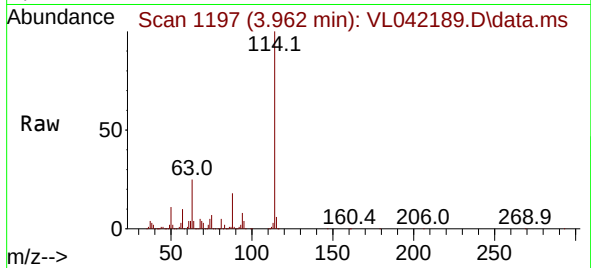




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. 0.010 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

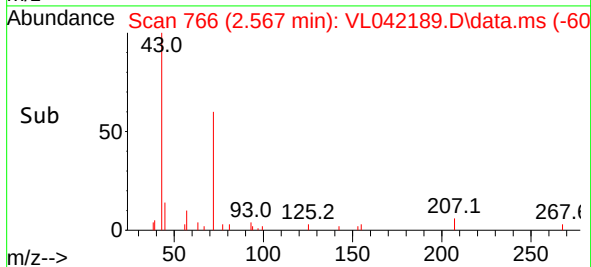
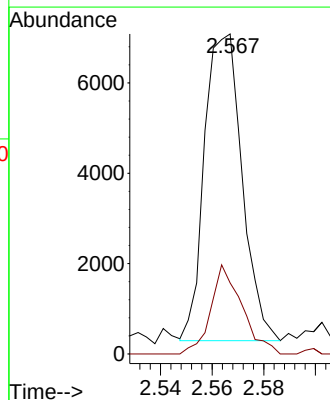
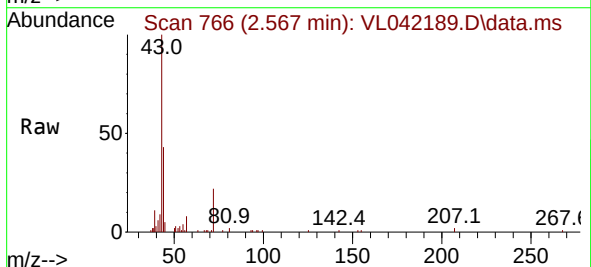
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

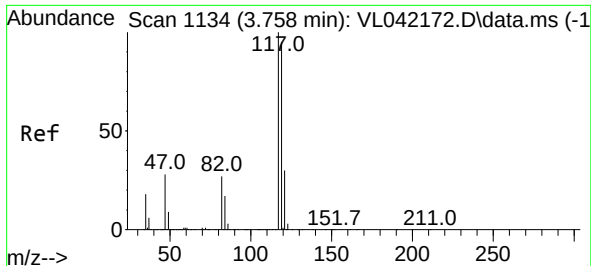
Tgt Ion:114 Resp: 523099  
Ion Ratio Lower Upper  
114 100  
63 25.8 20.7 31.1  
88 18.1 15.0 22.4



#34  
2-Butanone  
Concen: 0.181 ppbv  
RT: 2.567 min Scan# 766  
Delta R.T. 0.013 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Tgt Ion: 43 Resp: 6879  
Ion Ratio Lower Upper  
43 100  
72 24.6 18.2 27.2

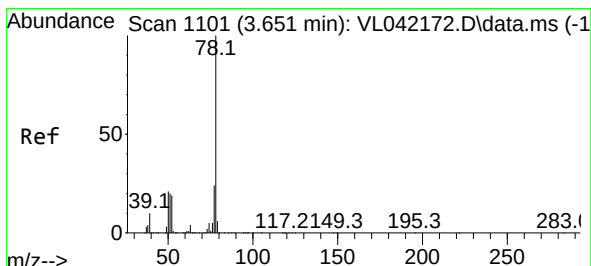
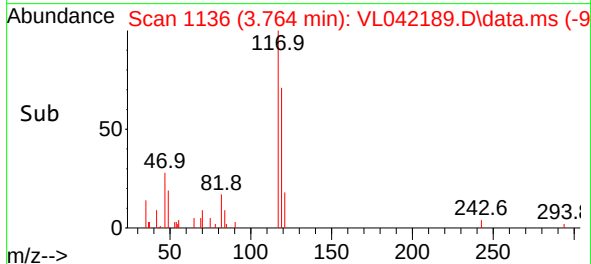
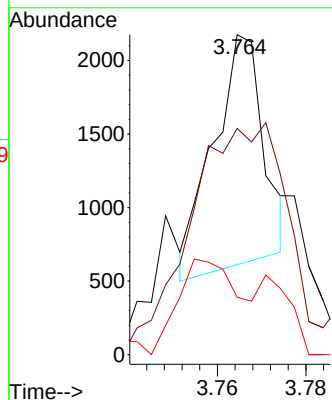
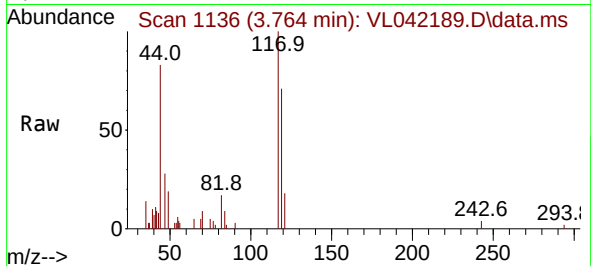




#35  
Carbon Tetrachloride  
Concen: 0.030 ppbv  
RT: 3.764 min Scan# 1136  
Delta R.T. 0.006 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

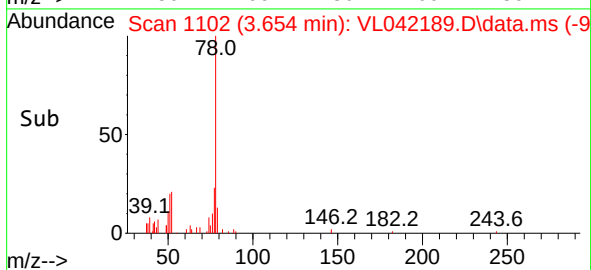
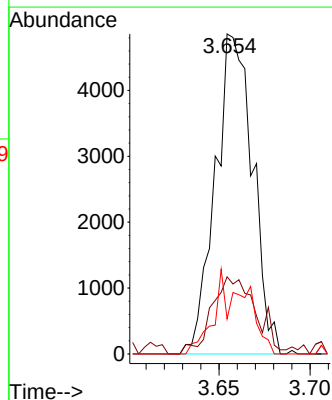
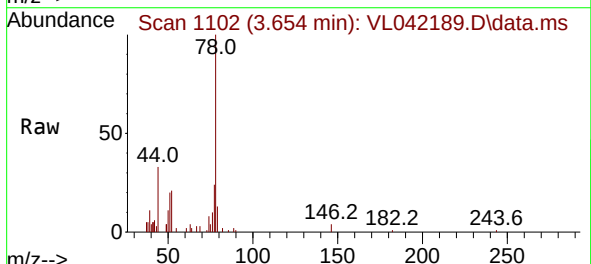
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

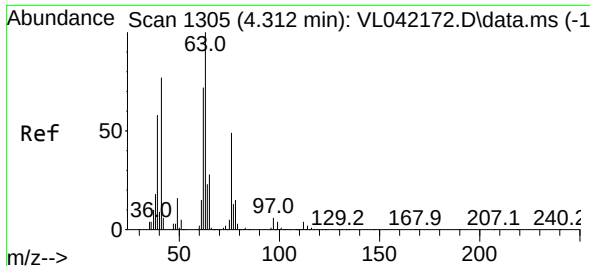
Tgt Ion:117 Resp: 1236  
Ion Ratio Lower Upper  
117 100  
119 62.3 76.2 114.2#  
121 0.1 24.2 36.4#



#36  
Benzene  
Concen: 0.134 ppbv  
RT: 3.654 min Scan# 1102  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Tgt Ion: 78 Resp: 6925  
Ion Ratio Lower Upper  
78 100  
77 24.1 19.1 28.7  
50 10.9 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 7.151 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042189.D

Acq: 27 Mar 2025 20:48

Instrument :

MSVOA\_L

ClientSampleId :

AA-2-3262025

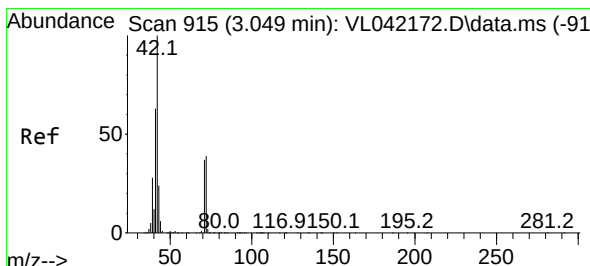
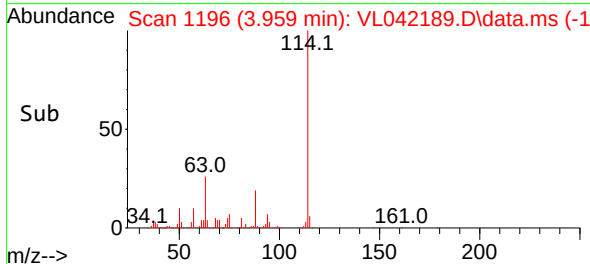
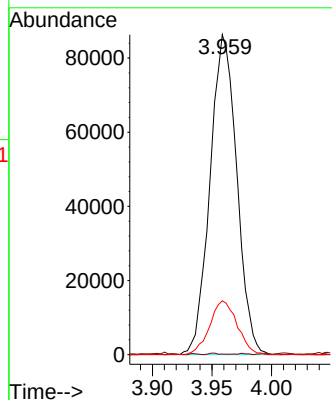
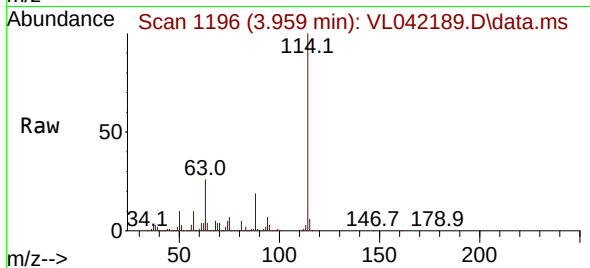
Tgt Ion: 63 Resp: 135050

Ion Ratio Lower Upper

63 100

41 0.1 61.7 92.5#

62 16.9 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.287 ppbv

RT: 3.224 min Scan# 969

Delta R.T. 0.175 min

Lab File: VL042189.D

Acq: 27 Mar 2025 20:48

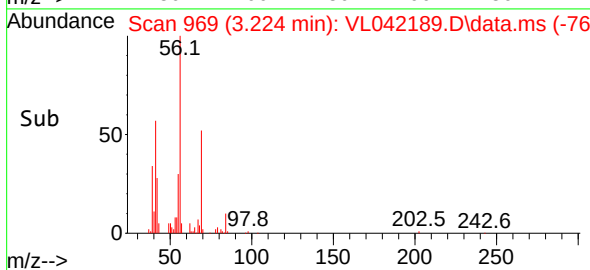
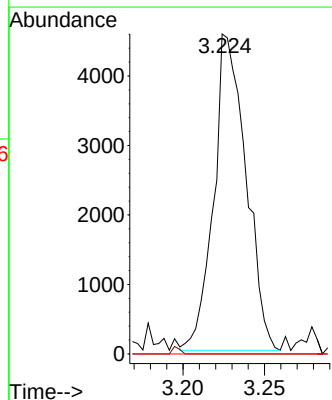
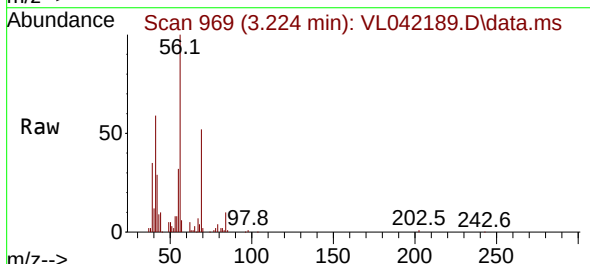
Tgt Ion: 42 Resp: 6258

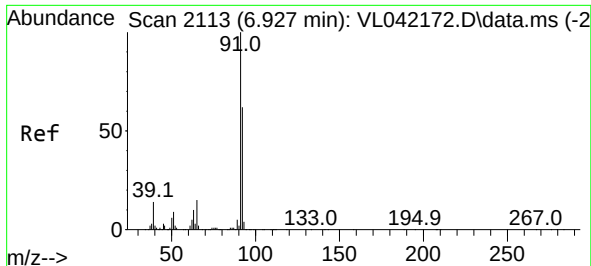
Ion Ratio Lower Upper

42 100

72 1.6 31.4 47.0#

71 0.0 30.2 45.4#

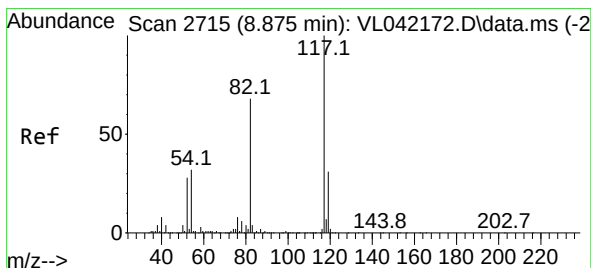
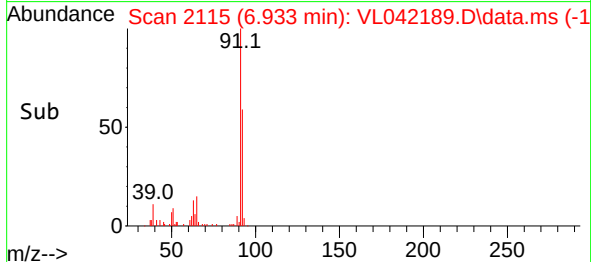
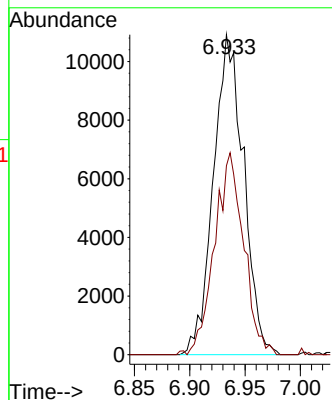
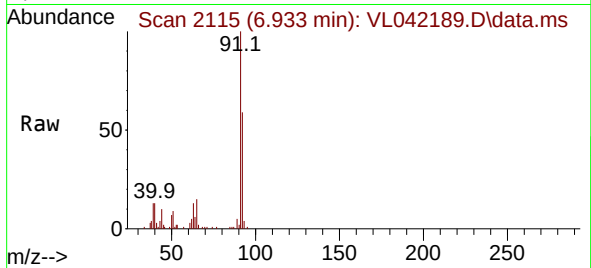




#53  
Toluene  
Concen: 0.337 ppbv  
RT: 6.933 min Scan# 2115  
Delta R.T. 0.006 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

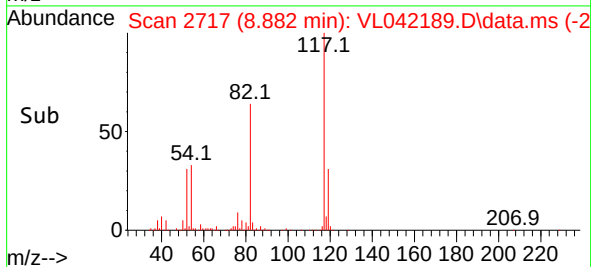
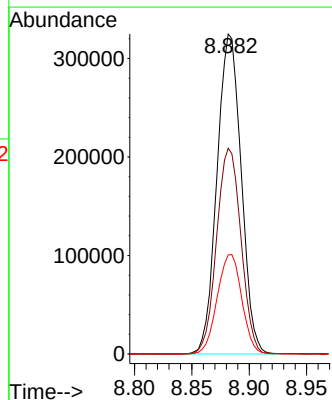
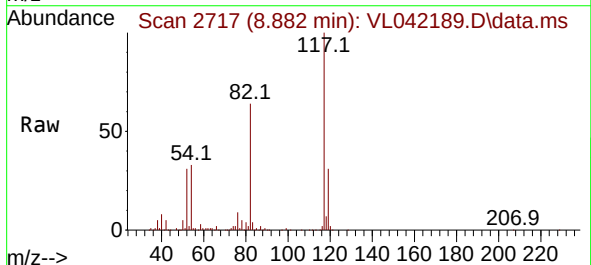
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

Tgt Ion: 91 Resp: 20704  
Ion Ratio Lower Upper  
91 100  
92 60.9 48.4 72.6

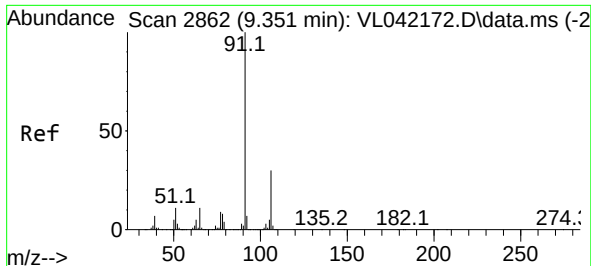


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 2717  
Delta R.T. 0.006 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Tgt Ion: 117 Resp: 477151  
Ion Ratio Lower Upper  
117 100  
82 64.6 55.8 83.6  
119 31.6 25.5 38.3



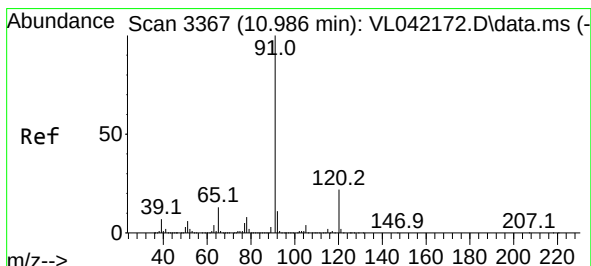
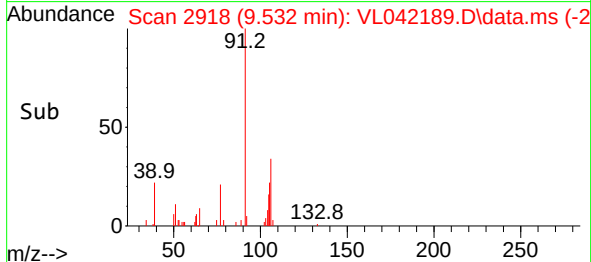
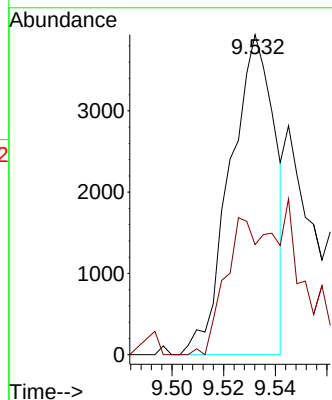
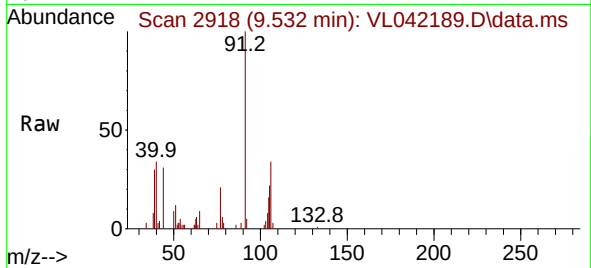




#58  
Ethyl Benzene  
Concen: 0.056 ppbv  
RT: 9.532 min Scan# 2918  
Delta R.T. 0.181 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

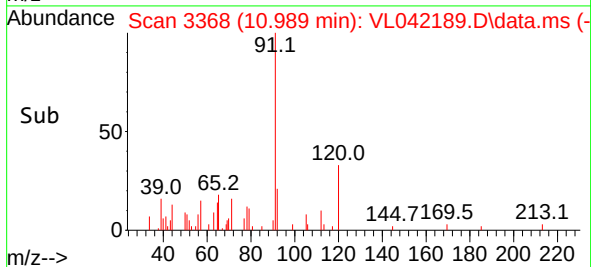
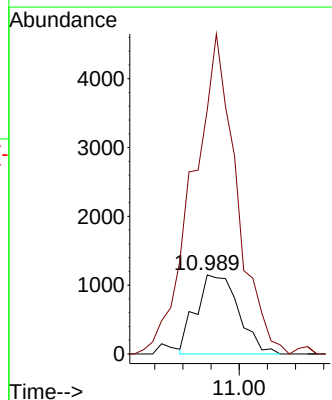
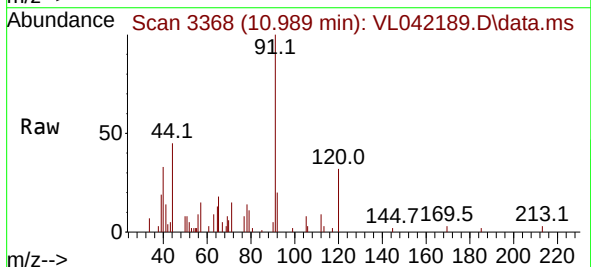
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

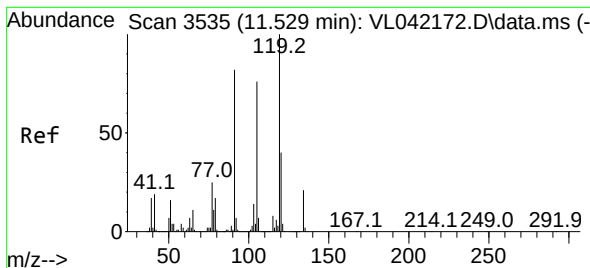
Tgt Ion: 91 Resp: 4747  
Ion Ratio Lower Upper  
91 100  
106 34.4 24.2 36.2



#64  
n-propylbenzene  
Concen: 0.046 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Tgt Ion: 120 Resp: 1201  
Ion Ratio Lower Upper  
120 100  
91 427.6 376.9 565.3

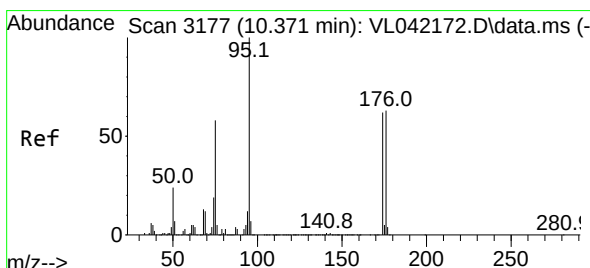
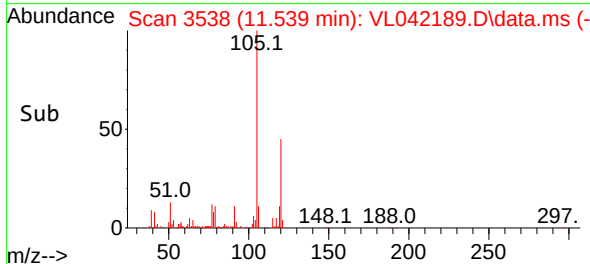
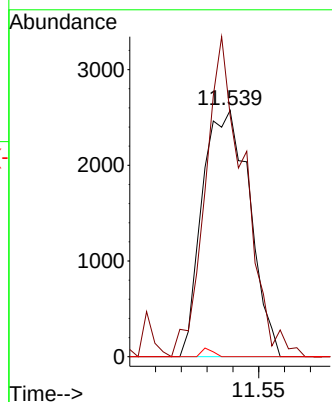
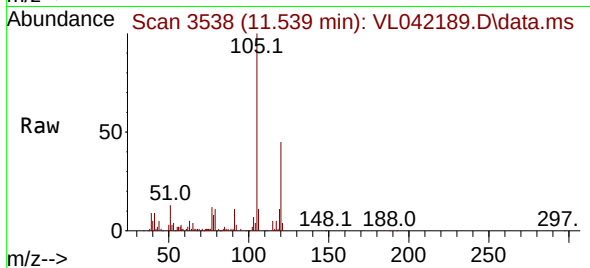




#65  
tert-Butylbenzene  
Concen: 0.035 ppbv  
RT: 11.539 min Scan# 3179  
Delta R.T. 0.010 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

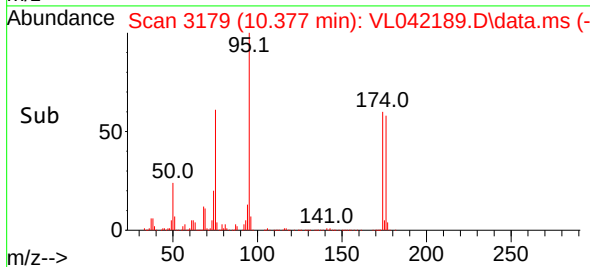
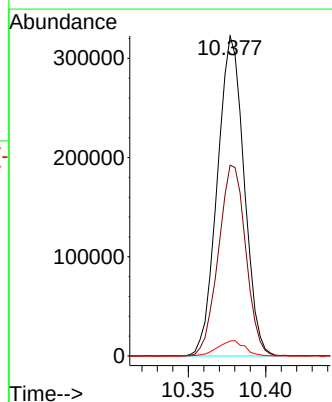
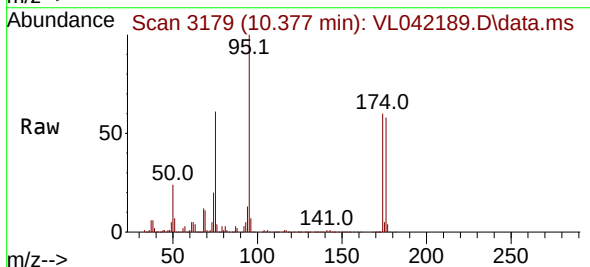
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

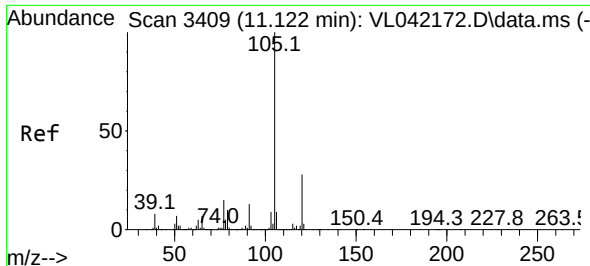
Tgt Ion:119 Resp: 3276  
Ion Ratio Lower Upper  
119 100  
91 113.4 66.0 99.0#  
134 0.8 16.7 25.1#



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.884 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. 0.006 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Tgt Ion: 95 Resp: 387301  
Ion Ratio Lower Upper  
95 100  
174 61.0 50.6 76.0  
175 4.9 3.8 5.6

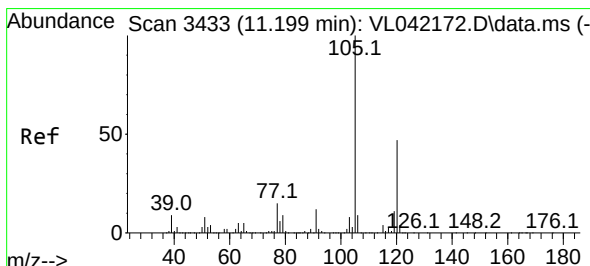
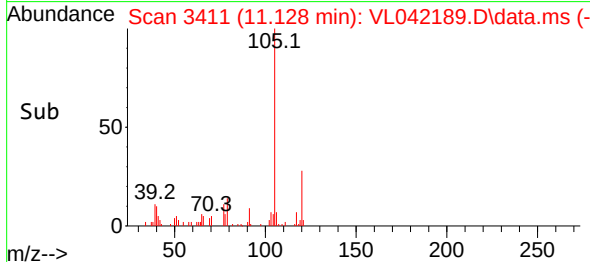
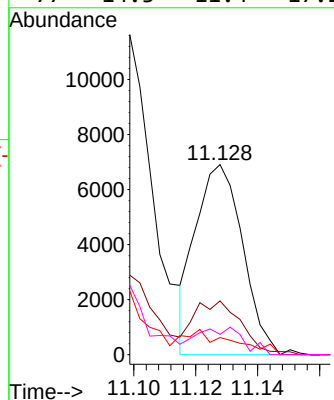
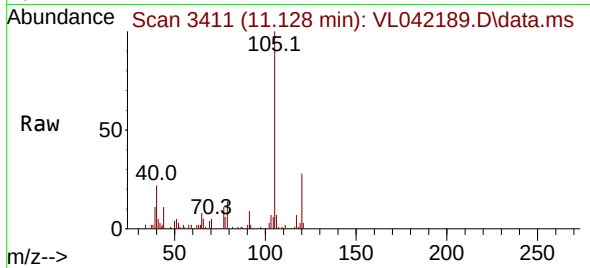




#72  
4-Ethyltoluene  
Concen: 0.086 ppbv  
RT: 11.128 min Scan# 3409  
Delta R.T. 0.006 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

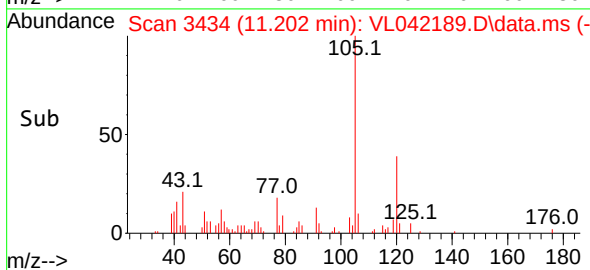
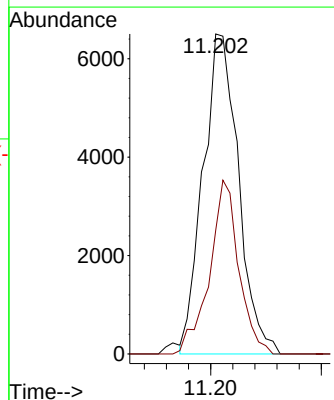
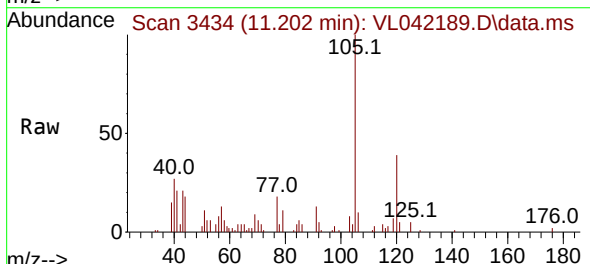
Instrument :  
MSVOA\_1  
ClientSampleId :  
AA-2-3262025

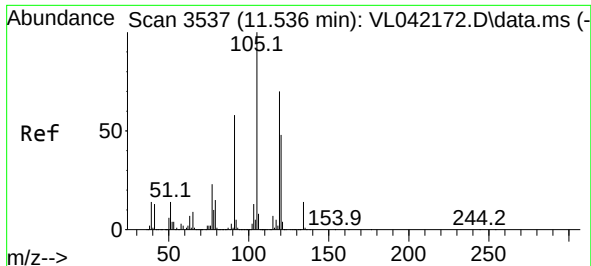
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:105 | Resp: | 7264       |
| Ion Ratio   | Lower | Upper      |
| 105         | 100   |            |
| 120         | 28.7  | 23.4 35.0  |
| 91          | 0.0   | 10.3 15.5# |
| 77          | 14.3  | 11.4 17.2  |



#73  
1,3,5-Trimethylbenzene  
Concen: 0.098 ppbv  
RT: 11.202 min Scan# 3434  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:105 | Resp: | 7241      |
| Ion Ratio   | Lower | Upper     |
| 105         | 100   |           |
| 120         | 38.6  | 37.4 56.0 |

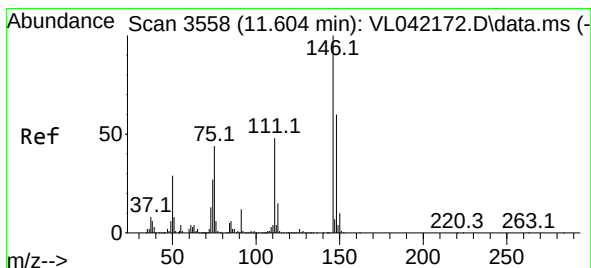
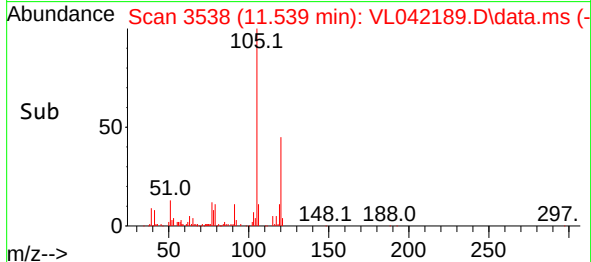
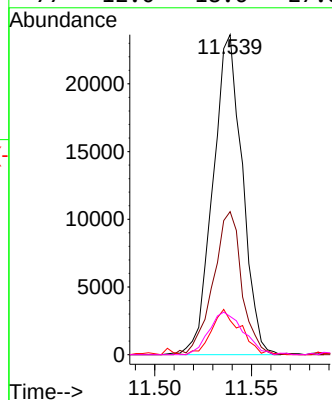
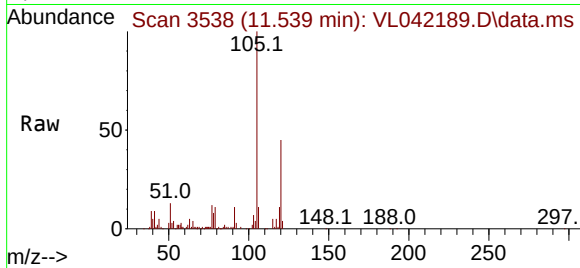




#74  
1,2,4-Trimethylbenzene  
Concen: 0.291 ppbv  
RT: 11.539 min Scan# 3537  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

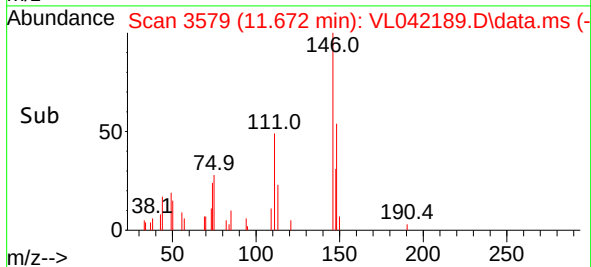
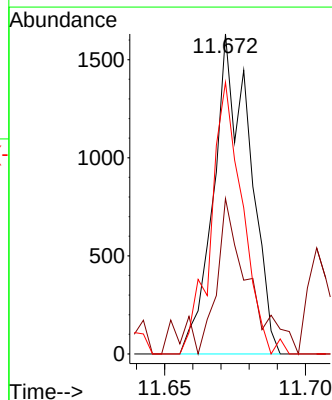
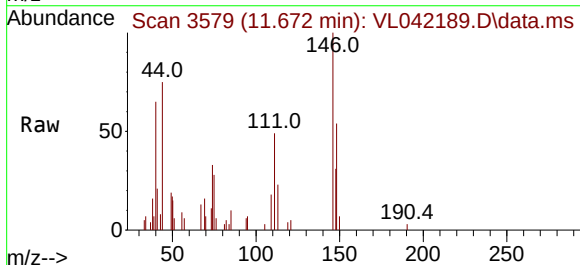
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

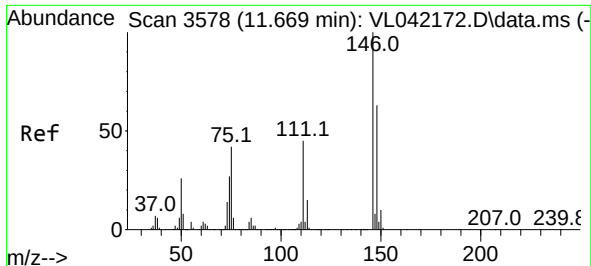
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 24773 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 44.7  | 38.6  | 58.0  |
| 91       | 10.5  | 46.2  | 69.2# |
| 77       | 12.0  | 18.6  | 27.8# |



#75  
1,3-Dichlorobenzene  
Concen: 0.031 ppbv  
RT: 11.672 min Scan# 3579  
Delta R.T. 0.068 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 1457  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 47.4  | 23.8  | 71.2  |
| 148      | 74.1  | 31.9  | 95.9  |

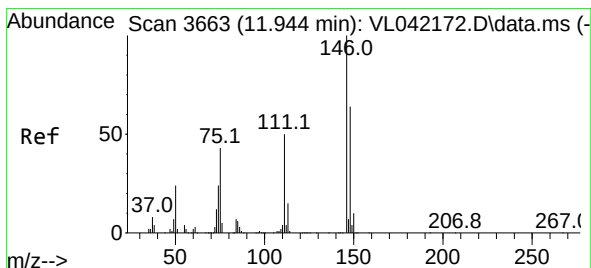
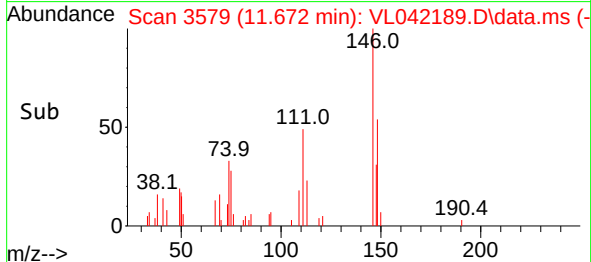
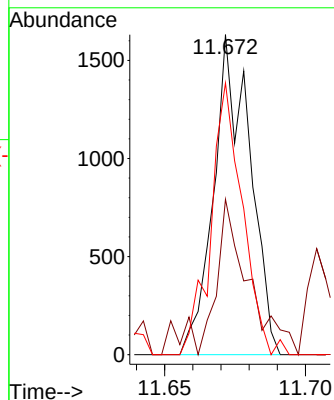
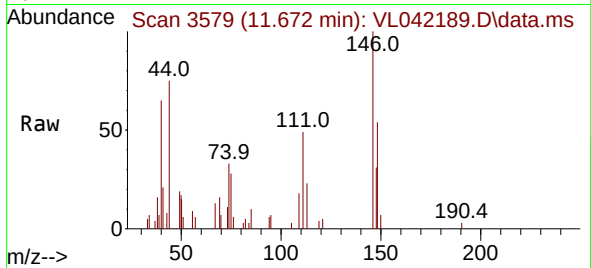




#76  
1,4-Dichlorobenzene  
Concen: 0.031 ppbv  
RT: 11.672 min Scan# 3579  
Delta R.T. 0.003 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

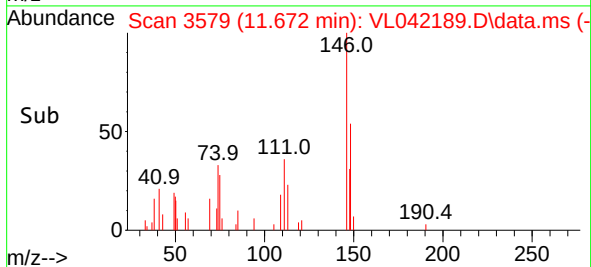
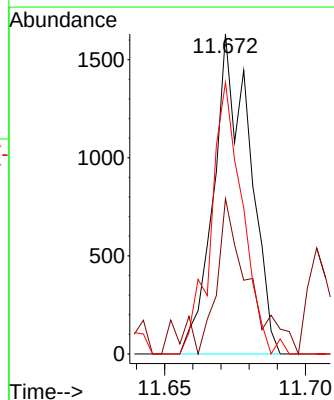
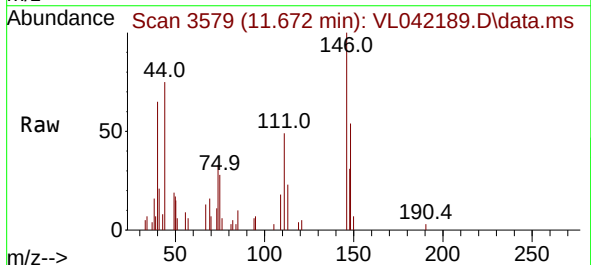
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025

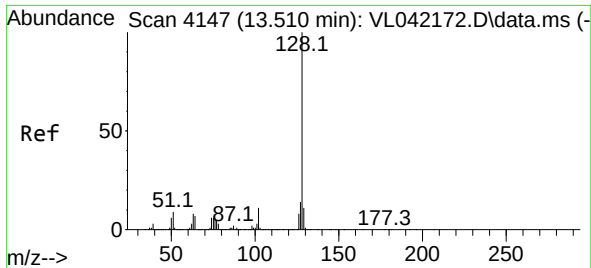
Tgt Ion:146 Resp: 1457  
Ion Ratio Lower Upper  
146 100  
111 80.4 23.0 69.0#  
148 76.9 31.9 95.7



#77  
1,2-Dichlorobenzene  
Concen: 0.032 ppbv  
RT: 11.672 min Scan# 3579  
Delta R.T. -0.272 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

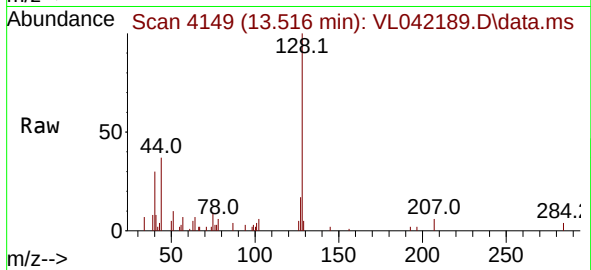
Tgt Ion:146 Resp: 1457  
Ion Ratio Lower Upper  
146 100  
111 47.4 24.8 74.3  
148 74.1 31.6 94.8



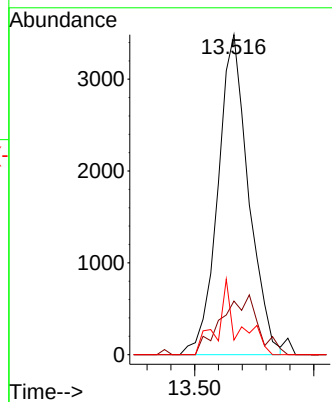
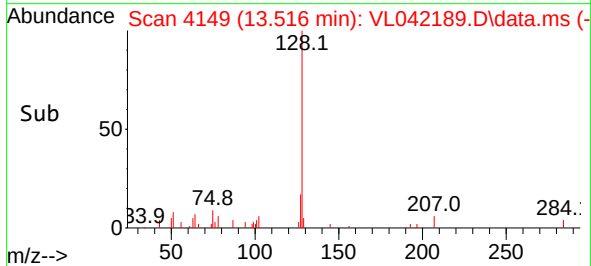


#79  
Naphthalene  
Concen: 0.034 ppbv  
RT: 13.516 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL042189.D  
Acq: 27 Mar 2025 20:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-2-3262025



Tgt Ion:128 Resp: 3117  
Ion Ratio Lower Upper  
128 100  
127 16.7 10.8 16.2#  
129 4.6 9.0 13.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042192.D  
 Acq On : 27 Mar 2025 22:29  
 Operator : SY/MD  
 Sample : Q1669-07DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-B16-1-3262025DL

Quant Time: Mar 28 02:18:46 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

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 2.787  | 49    | 182834   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene      | 3.959  | 114   | 517445   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5         | 8.882  | 117   | 472334   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene  | 10.377 | 95    | 383930   | 9.898    | ppbv   | 0.00     |
| Spiked Amount                | 10.000 | Range | 65 - 135 | Recovery | =      | 99.000%  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.492  | 85    | 1740     | 0.064    | ppbv # | 72       |
| 6) Bromomethane              | 1.664  | 94    | 165      | 0.033    | ppbv # | 4        |
| 8) Dichlorotetrafluoroethane | 1.492  | 85    | 1740     | 0.076    | ppbv # | 19       |
| 9) Propene                   | 1.473  | 41    | 506      | 0.040    | ppbv # | 49       |
| 13) Ethanol                  | 1.722  | 45    | 18353    | 15.359   | ppbv # | 27       |
| 15) Acetone                  | 1.835  | 43    | 97895    | 3.828    | ppbv   | 95       |
| 16) 1,3-Butadiene            | 1.615  | 39    | 1080     | 0.086    | ppbv # | 11       |
| 17) tert-Butyl alcohol       | 2.043  | 59    | 2121     | 0.067    | ppbv # | 41       |
| 19) Isopropyl Alcohol        | 1.722  | 45    | 18353    | 1.272    | ppbv # | 1        |
| 20) Methylene Chloride       | 2.062  | 84    | 2299     | 0.241    | ppbv # | 79       |
| 23) Vinyl Acetate            | 2.463  | 43    | 2010     | 0.182    | ppbv # | 56       |
| 25) Ethyl Acetate            | 2.829  | 43    | 2478     | 0.037    | ppbv # | 79       |
| 26) Hexane                   | 2.832  | 57    | 2488     | 0.097    | ppbv # | 50       |
| 34) 2-Butanone               | 2.564  | 43    | 9065     | 0.242    | ppbv   | 97       |
| 36) Benzene                  | 3.658  | 78    | 1901     | 0.037    | ppbv # | 81       |
| 39) 1,2-Dichloropropane      | 3.959  | 63    | 133500   | 7.146    | ppbv # | 22       |
| 50) 4-Methyl-2-Pentanone     | 5.774  | 43    | 5613     | 0.094    | ppbv # | 57       |
| 53) Toluene                  | 6.933  | 91    | 34361    | 0.565    | ppbv   | 100      |
| 60) o-Xylene                 | 9.532  | 91    | 9817     | 0.146    | ppbv   | 73       |
| 61) Styrene                  | 9.872  | 104   | 2418     | 0.073    | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene   | 11.536 | 105   | 4405     | 0.052    | ppbv # | 66       |

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19

Abundance

TIC: VL042192.D\data.ms

1700000

1600000

1500000

1400000

1300000

1200000

1100000

1000000

900000

800000

700000

600000

500000

400000

300000

200000

100000

0

Time-->

1.00

2.00

3.00

4.00

5.00

6.00

7.00

8.00

9.00

10.00

11.00

12.00

13.00

14.00

15.00

16.00

17.00

18.00

19.00

20.00

21.00

Dichloromethane, T

Bromochloromethane, T

Acetone, T

Methyl Chloride, T

Ethyl Acetate, T

Benzene, T

1,2-Dichloropropane, T

4-Methyl-2-Pentanone, T

Toluene, T

Chlorobenzene-d5, T

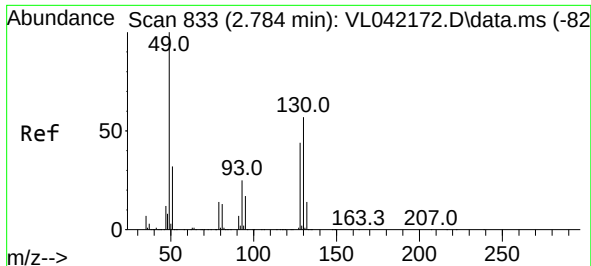
o-Xylene, T

Styrene, T

1-Bromo-4-Fluorobenzene, T

1,2,4-Trimethylbenzene, T

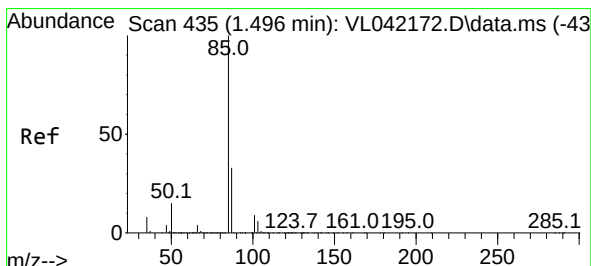
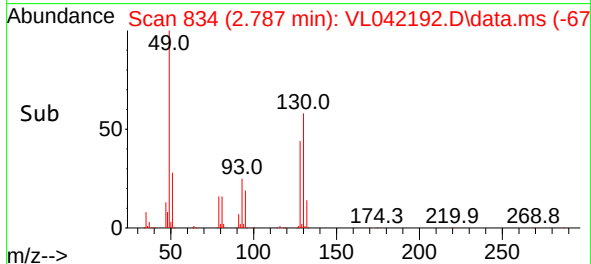
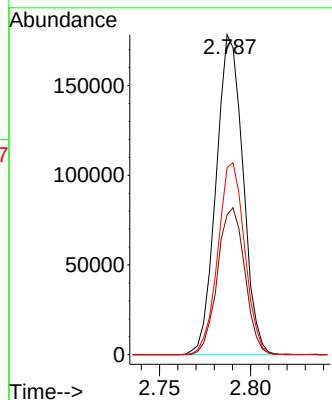
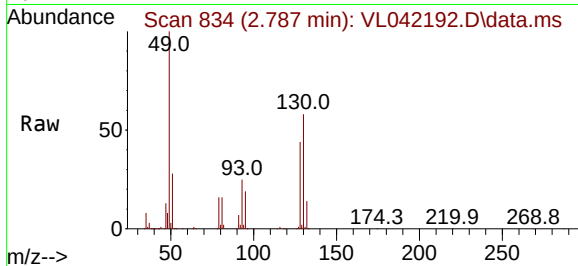




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

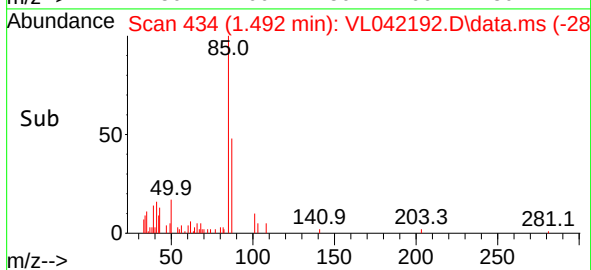
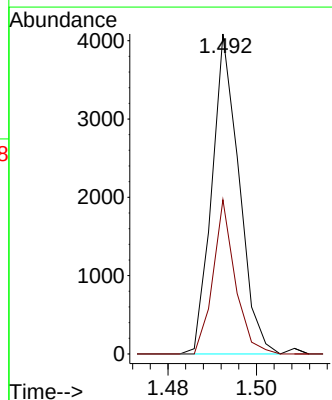
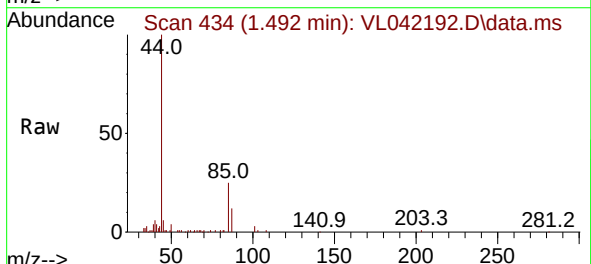
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025DL

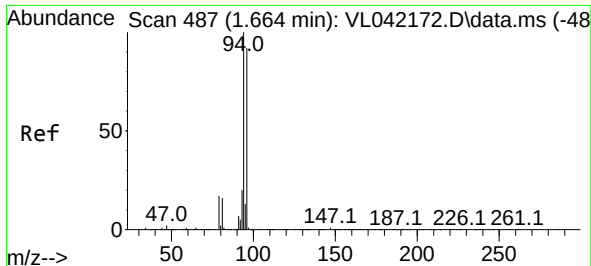
Tgt Ion: 49 Resp: 182834  
Ion Ratio Lower Upper  
49 100  
128 46.7 22.9 68.5  
130 59.8 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 0.064 ppbv  
RT: 1.492 min Scan# 434  
Delta R.T. -0.003 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

Tgt Ion: 85 Resp: 1740  
Ion Ratio Lower Upper  
85 100  
87 48.2 26.1 39.1#

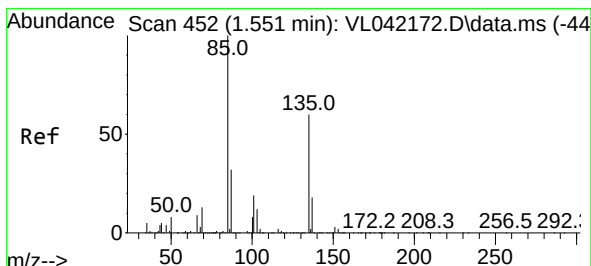
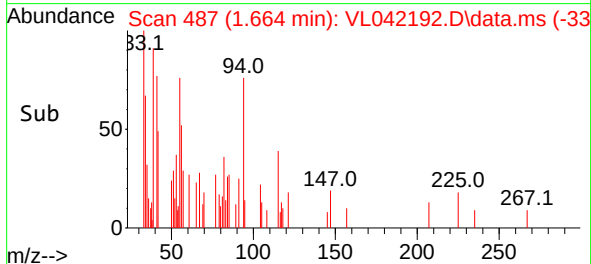
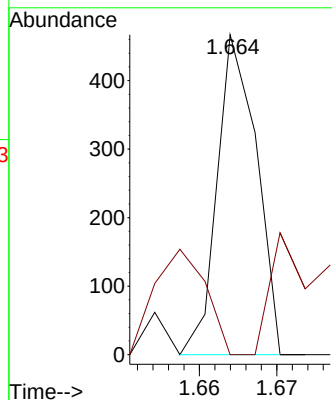
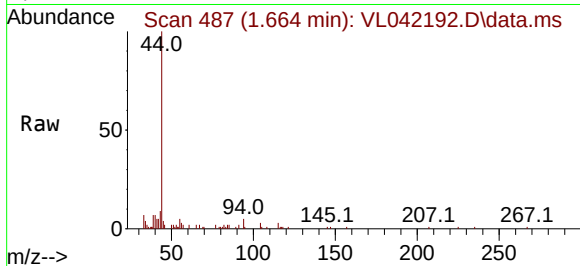




#6  
Bromomethane  
Concen: 0.033 ppbv  
RT: 1.664 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

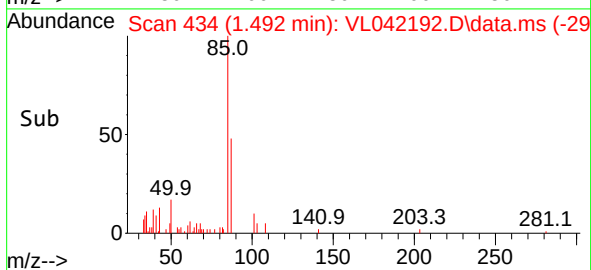
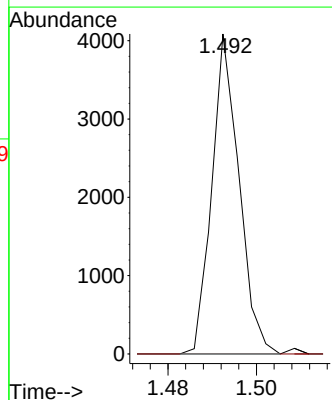
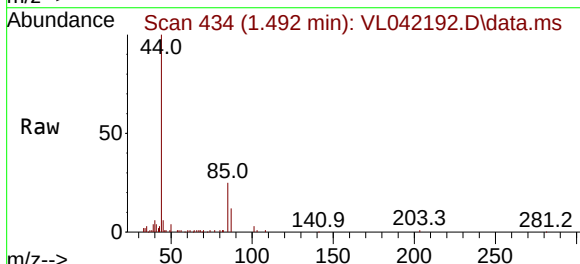
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025DL

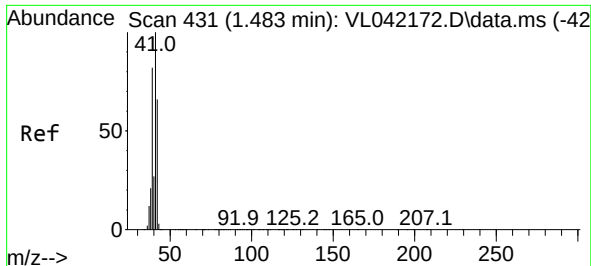
Tgt Ion: 94 Resp: 165  
Ion Ratio Lower Upper  
94 100  
96 0.0 73.1 109.7#



#8  
Dichlorotetrafluoroethane  
Concen: 0.076 ppbv  
RT: 1.492 min Scan# 434  
Delta R.T. -0.058 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

Tgt Ion: 85 Resp: 1740  
Ion Ratio Lower Upper  
85 100  
135 1.5 52.4 78.6#





#9

Propene

Concen: 0.040 ppbv

RT: 1.473 min Scan# 41

Delta R.T. -0.010 min

Lab File: VL042192.D

Acq: 27 Mar 2025 22:29

Instrument :

MSVOA\_1

ClientSampleId :

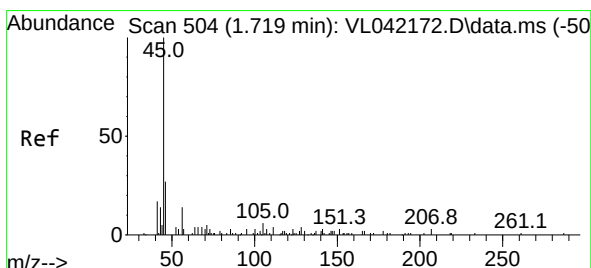
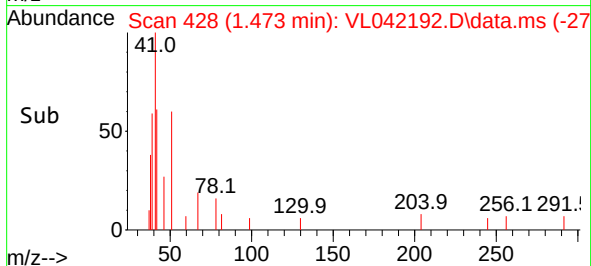
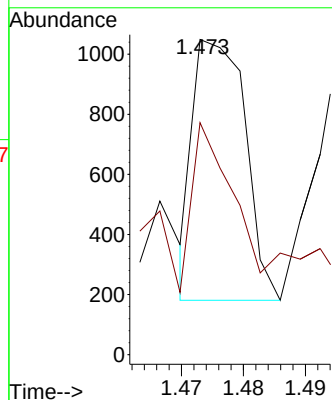
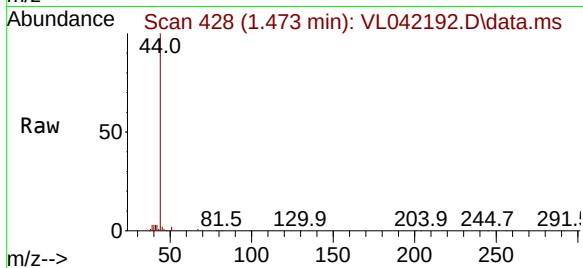
SSSG-B16-1-3262025DL

Tgt Ion: 41 Resp: 506

Ion Ratio Lower Upper

41 100

42 110.7 55.4 83.2#



#13

Ethanol

Concen: 15.359 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042192.D

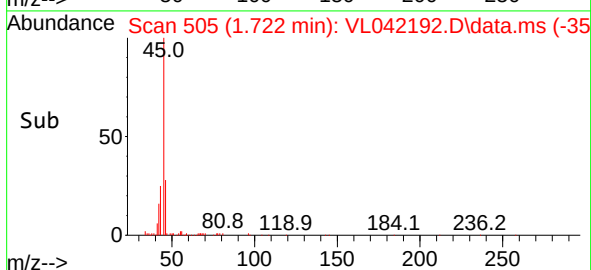
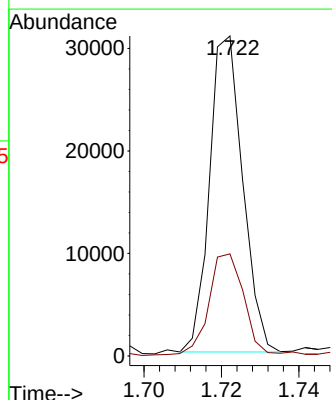
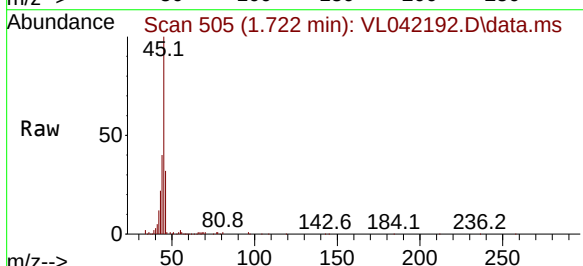
Acq: 27 Mar 2025 22:29

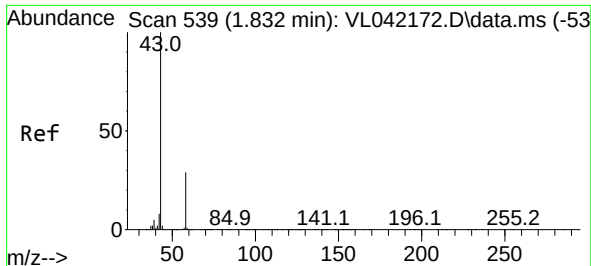
Tgt Ion: 45 Resp: 18353

Ion Ratio Lower Upper

45 100

46 0.0 20.2 80.8#

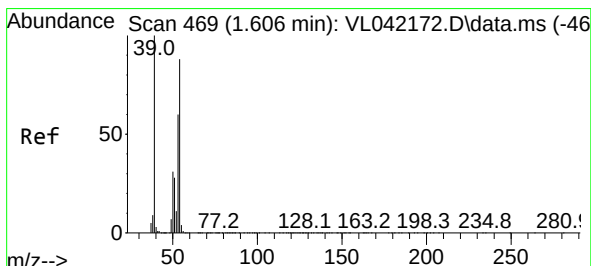
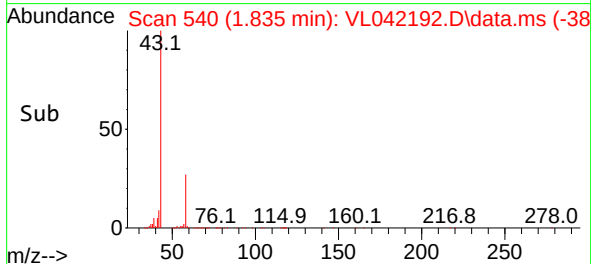
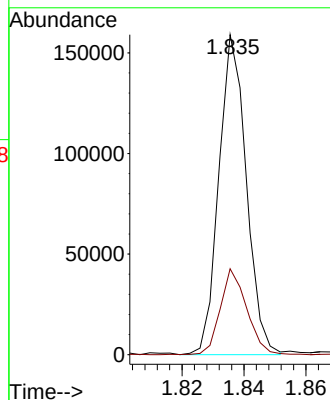
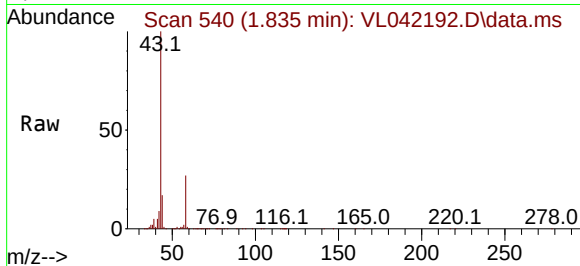




#15  
Acetone  
Concen: 3.828 ppbv  
RT: 1.835 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

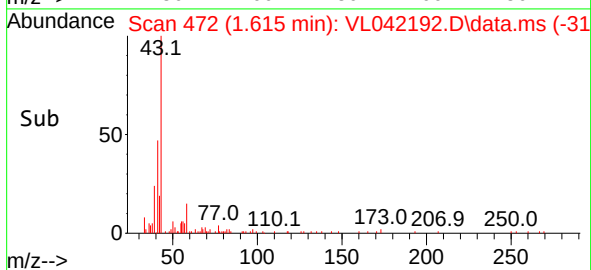
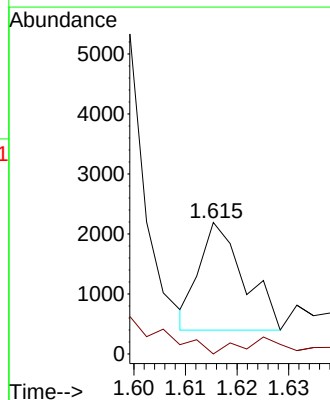
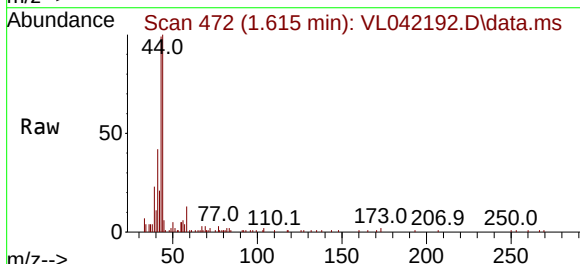
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025DL

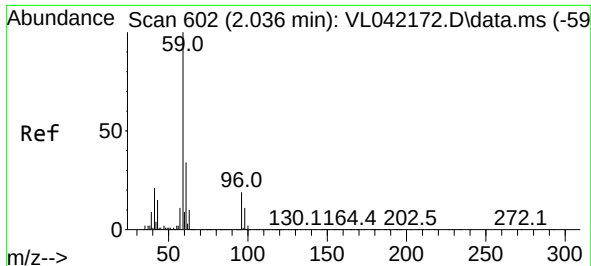
Tgt Ion: 43 Resp: 97895  
Ion Ratio Lower Upper  
43 100  
58 26.4 23.2 34.8



#16  
1,3-Butadiene  
Concen: 0.086 ppbv  
RT: 1.615 min Scan# 472  
Delta R.T. 0.010 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

Tgt Ion: 39 Resp: 1080  
Ion Ratio Lower Upper  
39 100  
54 0.0 60.7 91.1#

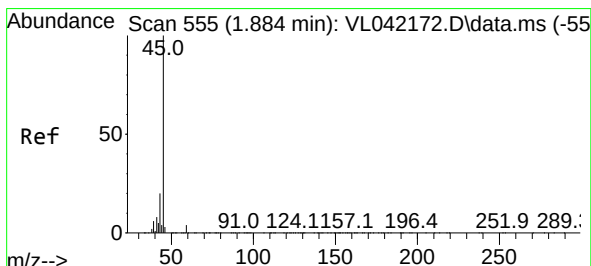
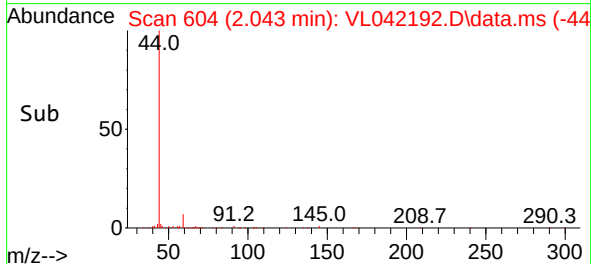
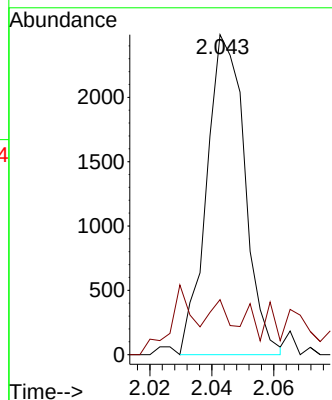
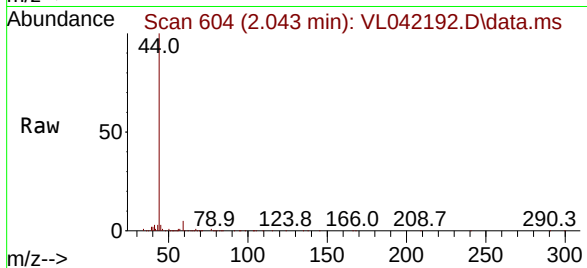




#17  
tert-Butyl alcohol  
Concen: 0.067 ppbv  
RT: 2.043 min Scan# 602  
Delta R.T. 0.006 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

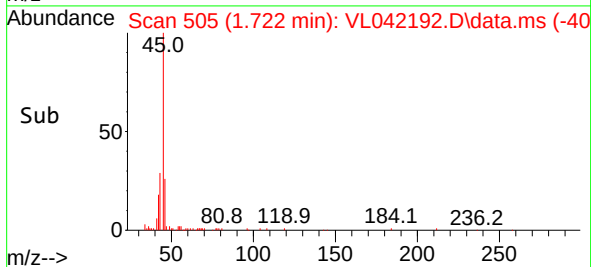
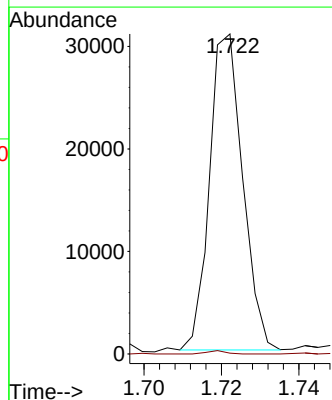
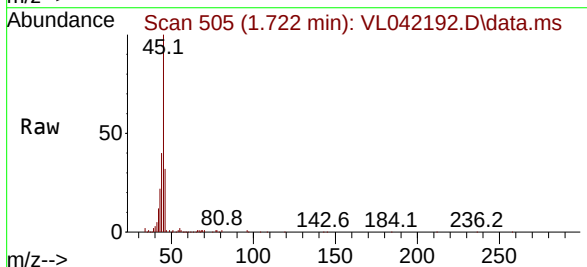
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025DL

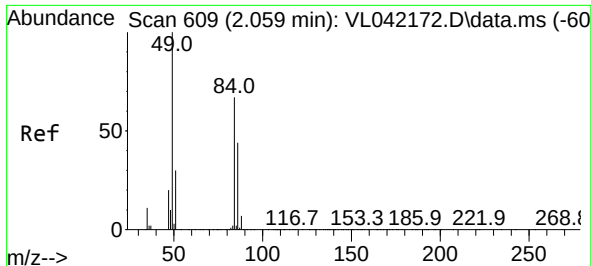
Tgt Ion: 59 Resp: 2121  
Ion Ratio Lower Upper  
59 100  
57 33.7 8.9 13.3#



#19  
Isopropyl Alcohol  
Concen: 1.272 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. -0.162 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

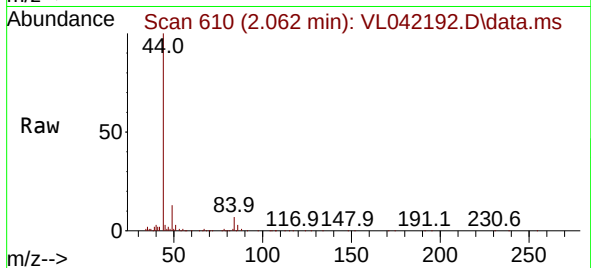
Tgt Ion: 45 Resp: 18353  
Ion Ratio Lower Upper  
45 100  
58 139.5 36.9 55.3#



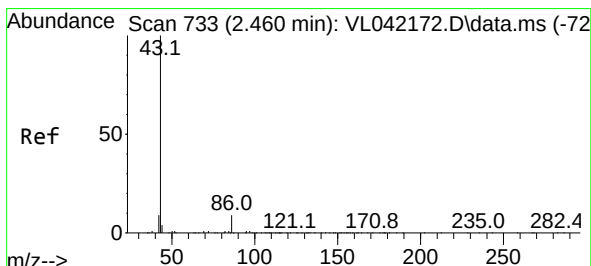
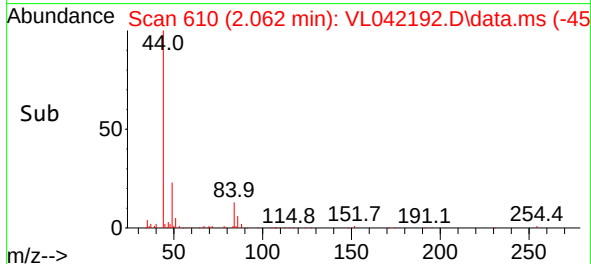
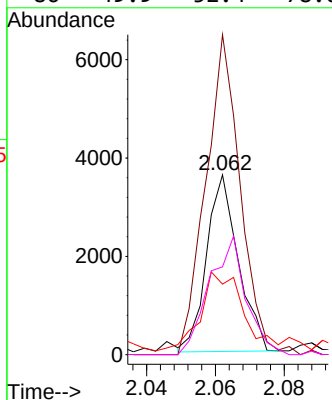


#20  
Methylene Chloride  
Concen: 0.241 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025DL

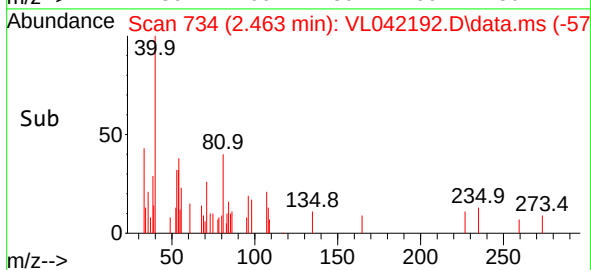
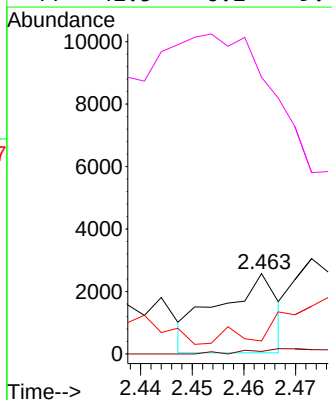
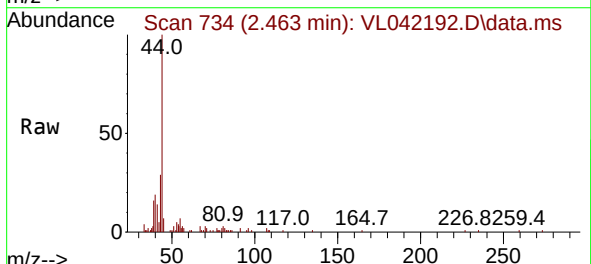


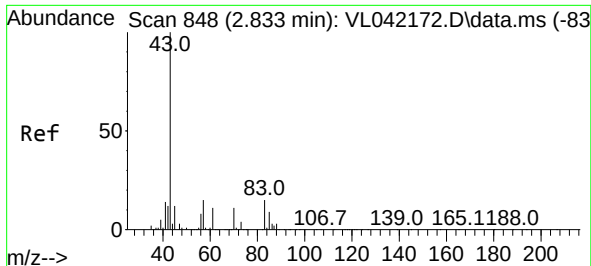
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 2299  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 179.1 | 120.2 | 180.4 |
| 51       | 34.5  | 37.4  | 56.0# |
| 86       | 49.9  | 52.4  | 78.6# |



#23  
Vinyl Acetate  
Concen: 0.182 ppbv  
RT: 2.463 min Scan# 734  
Delta R.T. 0.003 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2010  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 5.3   | 5.5   | 8.3#  |
| 42       | 0.0   | 8.6   | 13.0# |
| 44       | 42.5  | 6.2   | 9.4#  |





#25

Ethyl Acetate

Concen: 0.037 ppbv

RT: 2.829 min Scan# 847

Delta R.T. -0.003 min

Lab File: VL042192.D

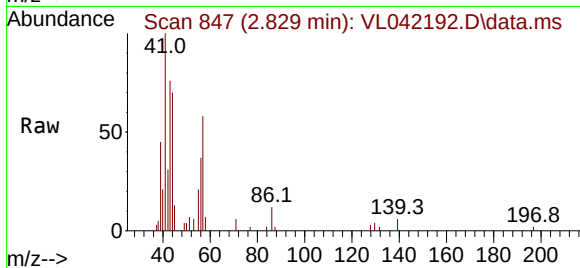
Acq: 27 Mar 2025 22:29

Instrument :

MSVOA\_1

ClientSampleId :

SSSG-B16-1-3262025DL



Tgt Ion: 43 Resp: 2478

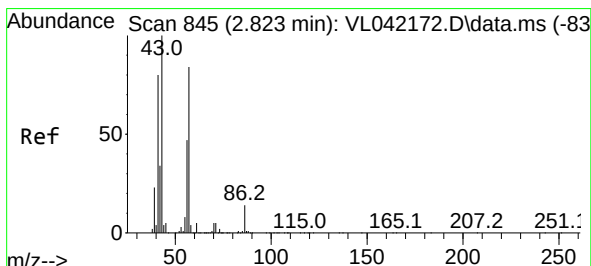
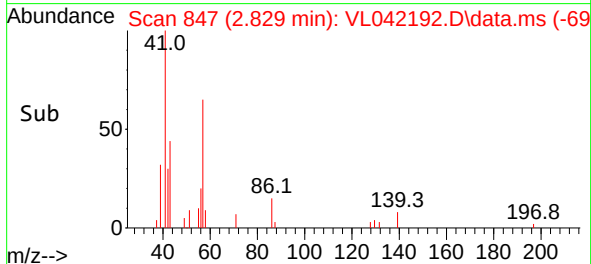
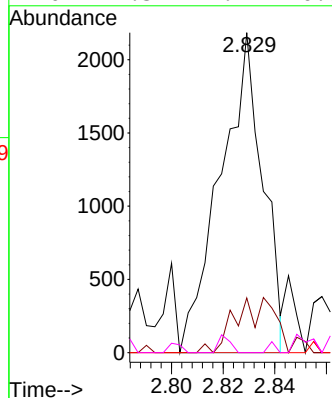
Ion Ratio Lower Upper

43 100

45 17.3 8.2 12.2#

61 0.0 7.3 10.9#

70 2.5 7.2 10.8#



#26

Hexane

Concen: 0.097 ppbv

RT: 2.832 min Scan# 848

Delta R.T. 0.010 min

Lab File: VL042192.D

Acq: 27 Mar 2025 22:29

Tgt Ion: 57 Resp: 2488

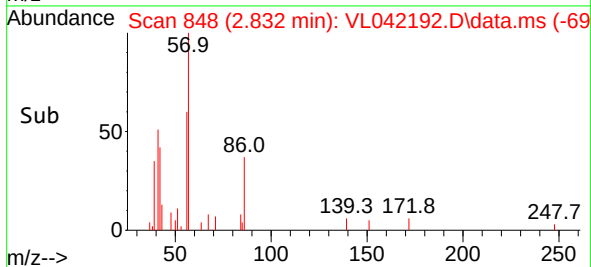
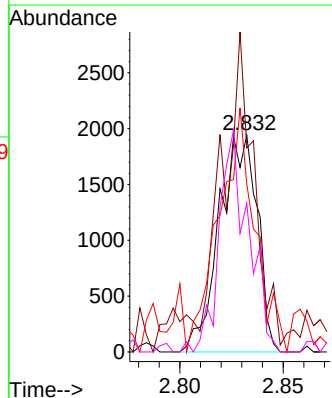
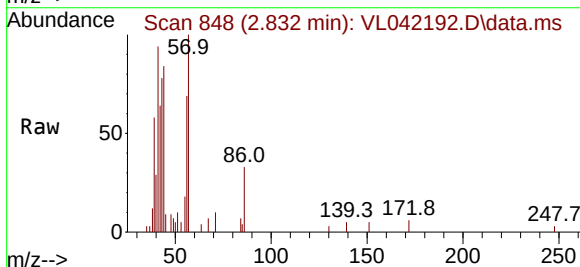
Ion Ratio Lower Upper

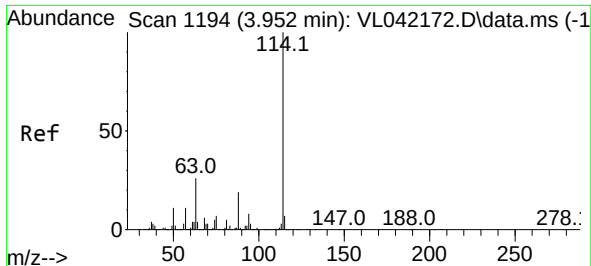
57 100

41 115.4 76.6 114.8#

43 145.8 207.8 311.8#

56 80.1 43.6 65.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042192.D

Acq: 27 Mar 2025 22:29

Instrument :

MSVOA\_L

ClientSampleId :

SSSG-B16-1-3262025DL

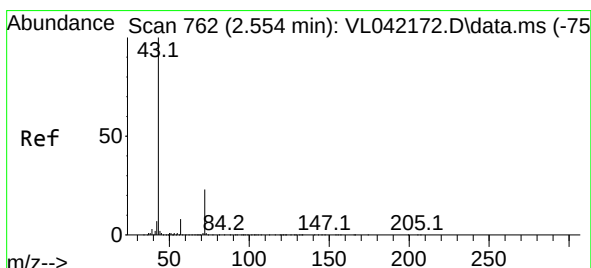
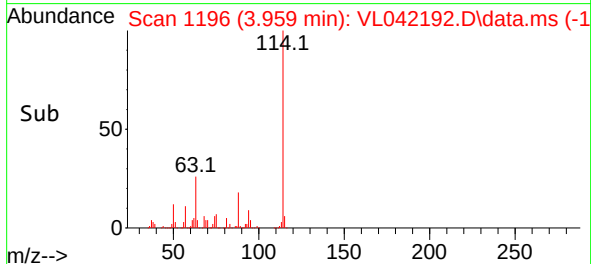
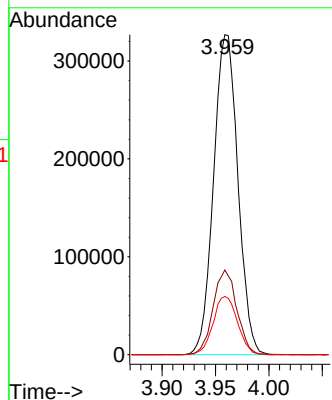
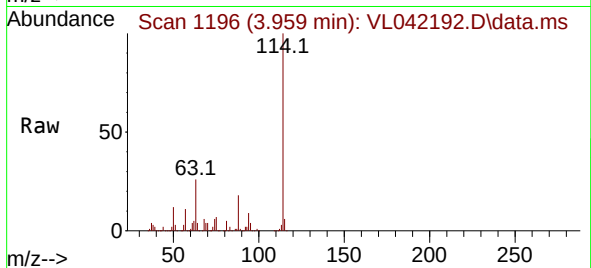
Tgt Ion:114 Resp: 517445

Ion Ratio Lower Upper

114 100

63 25.8 20.7 31.1

88 18.3 15.0 22.4



#34

2-Butanone

Concen: 0.242 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.010 min

Lab File: VL042192.D

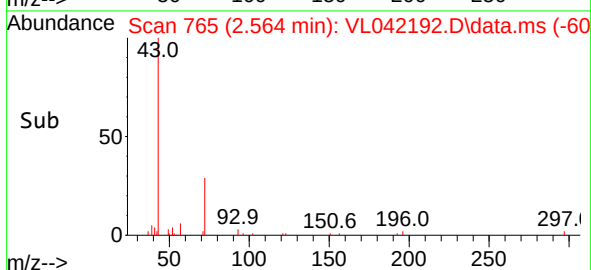
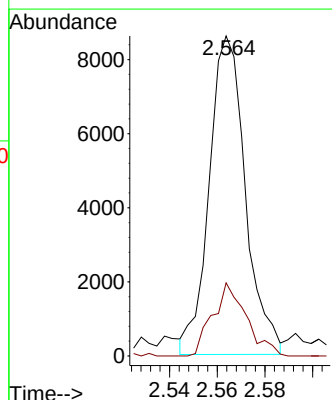
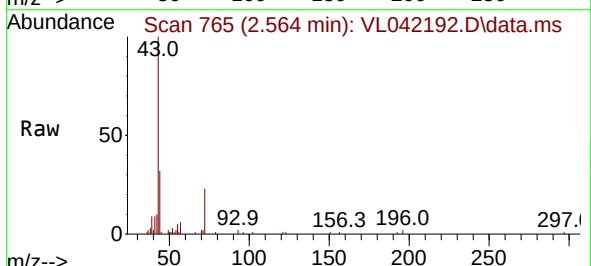
Acq: 27 Mar 2025 22:29

Tgt Ion: 43 Resp: 9065

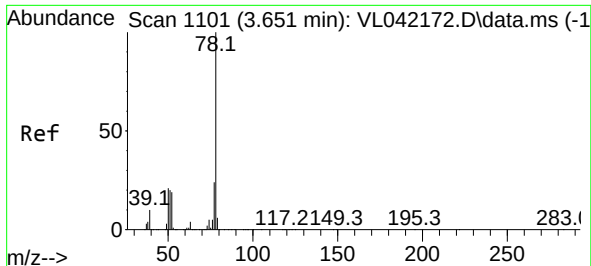
Ion Ratio Lower Upper

43 100

72 21.4 18.2 27.2



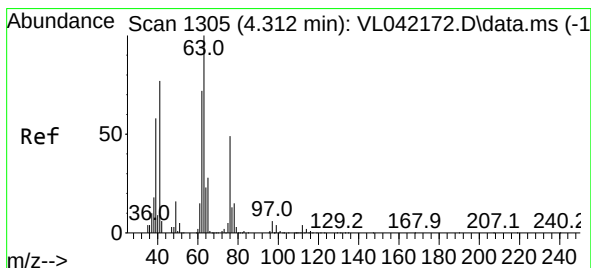
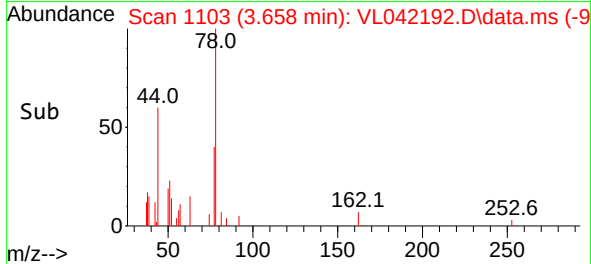
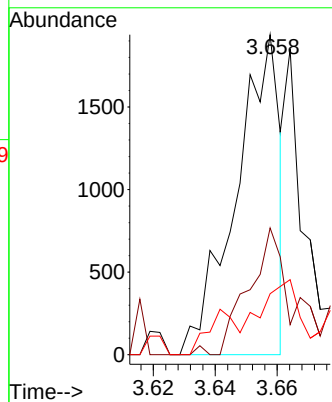
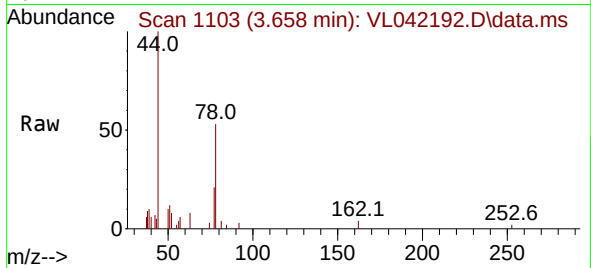




#36  
Benzene  
Concen: 0.037 ppbv  
RT: 3.658 min Scan# 1101  
Delta R.T. 0.006 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

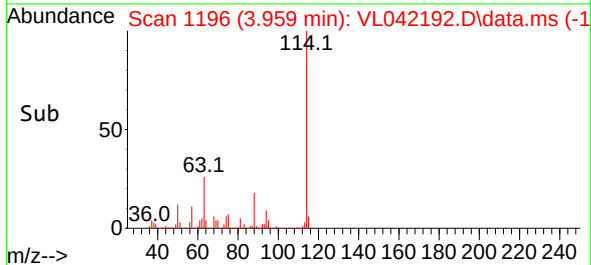
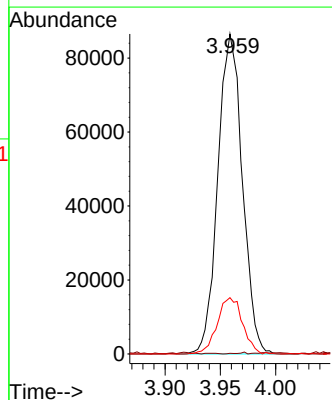
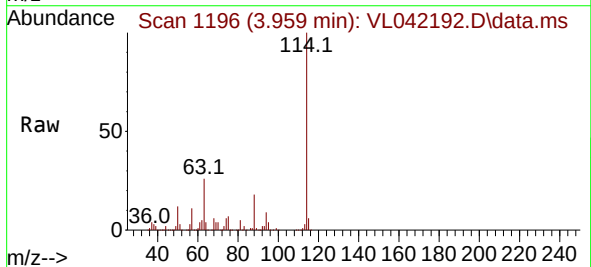
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025DL

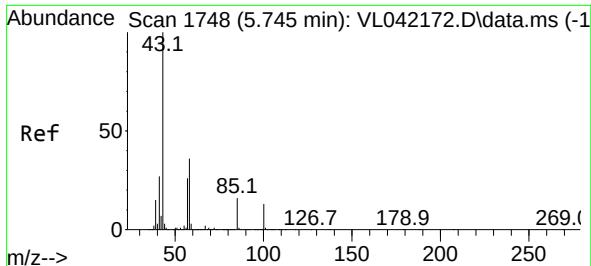
|             |                 |
|-------------|-----------------|
| Tgt Ion: 78 | Resp: 1901      |
| Ion Ratio   | Lower Upper     |
| 78          | 100             |
| 77          | 39.6 19.1 28.7# |
| 50          | 19.0 16.6 24.8  |



#39  
1,2-Dichloropropane  
Concen: 7.146 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. -0.353 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

|             |                 |
|-------------|-----------------|
| Tgt Ion: 63 | Resp: 133500    |
| Ion Ratio   | Lower Upper     |
| 63          | 100             |
| 41          | 0.0 61.7 92.5#  |
| 62          | 17.6 57.6 86.4# |





#50

4-Methyl-2-Pentanone

Concen: 0.094 ppbv

RT: 5.774 min Scan# 11

Delta R.T. 0.029 min

Lab File: VL042192.D

Acq: 27 Mar 2025 22:29

Instrument :

MSVOA\_1

ClientSampleId :

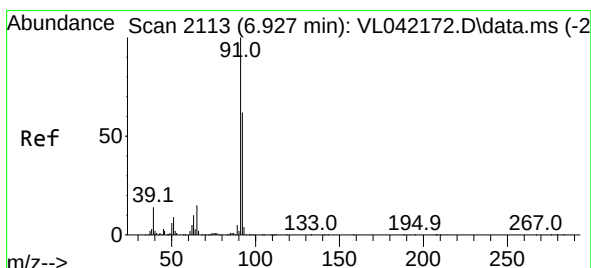
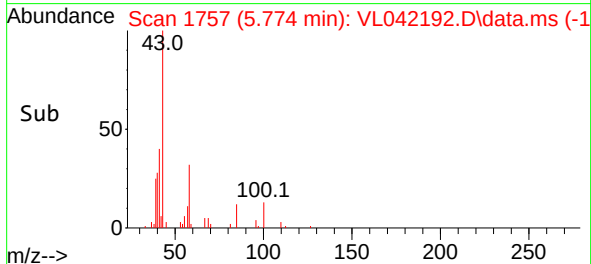
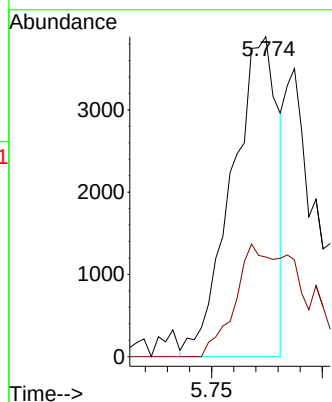
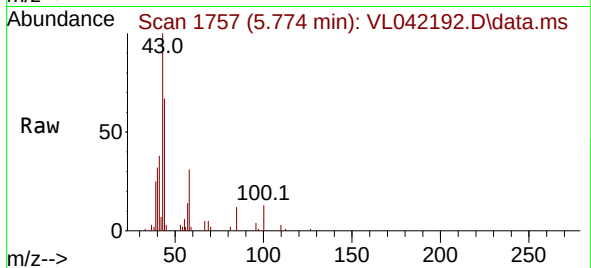
SSSG-B16-1-3262025DL

Tgt Ion: 43 Resp: 5613

Ion Ratio Lower Upper

43 100

58 61.6 29.0 43.6#



#53

Toluene

Concen: 0.565 ppbv

RT: 6.933 min Scan# 2115

Delta R.T. 0.006 min

Lab File: VL042192.D

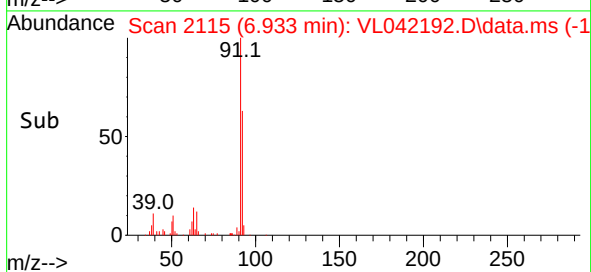
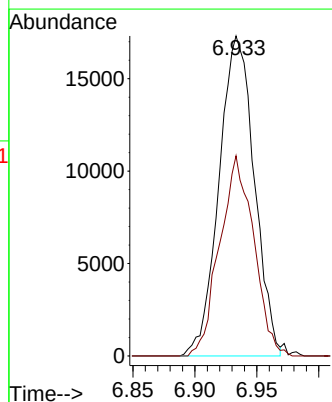
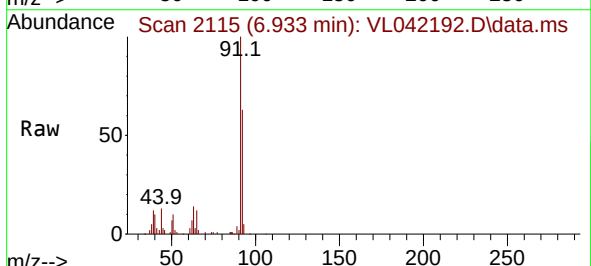
Acq: 27 Mar 2025 22:29

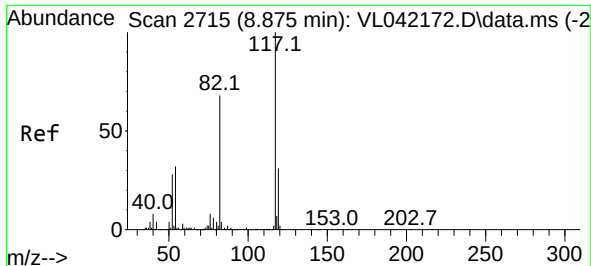
Tgt Ion: 91 Resp: 34361

Ion Ratio Lower Upper

91 100

92 60.3 48.4 72.6

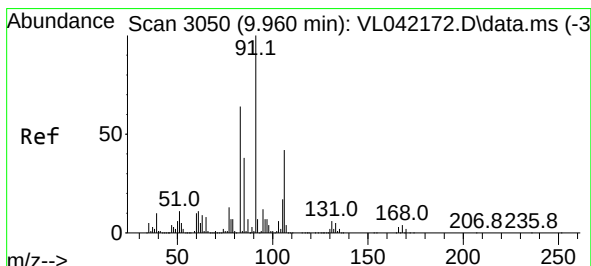
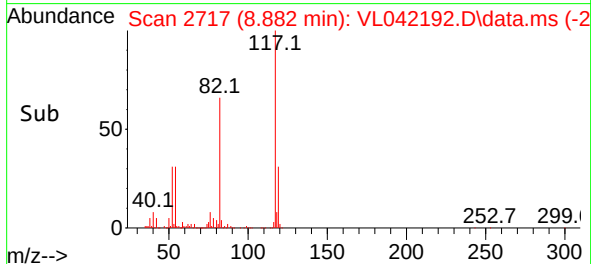
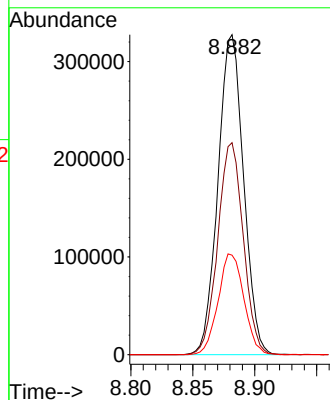
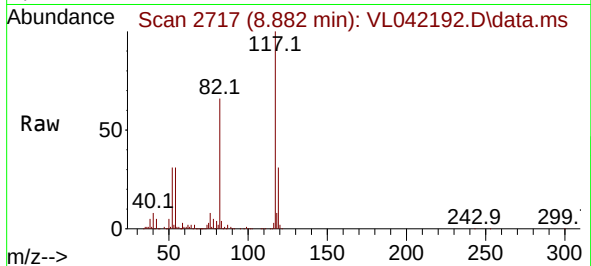




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 2117  
Delta R.T. 0.006 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

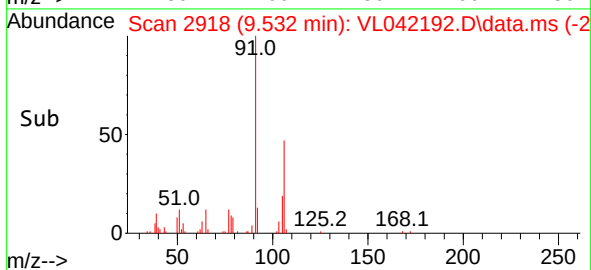
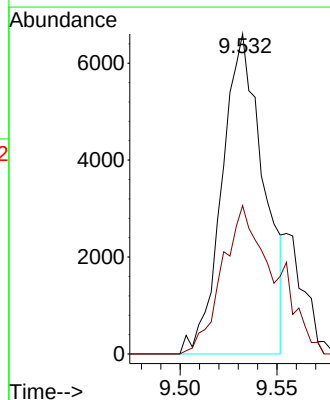
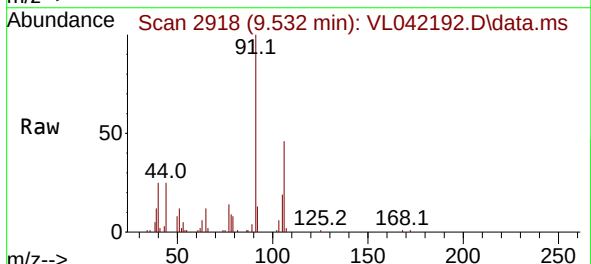
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025DL

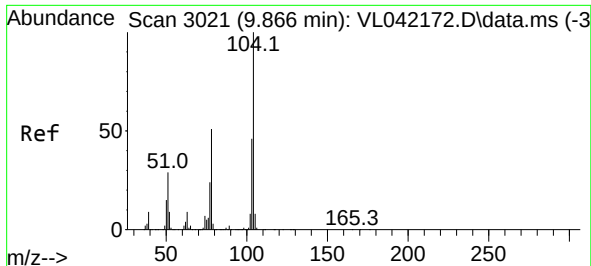
Tgt Ion:117 Resp: 472334  
Ion Ratio Lower Upper  
117 100  
82 65.9 55.8 83.6  
119 31.7 25.5 38.3



#60  
o-Xylene  
Concen: 0.146 ppbv  
RT: 9.532 min Scan# 2918  
Delta R.T. -0.427 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

Tgt Ion: 91 Resp: 9817  
Ion Ratio Lower Upper  
91 100  
106 58.9 20.8 62.5

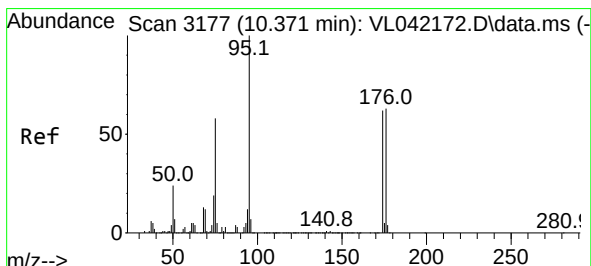
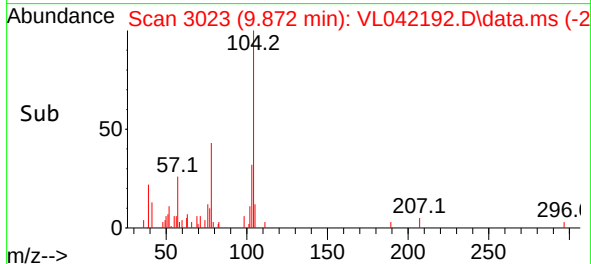
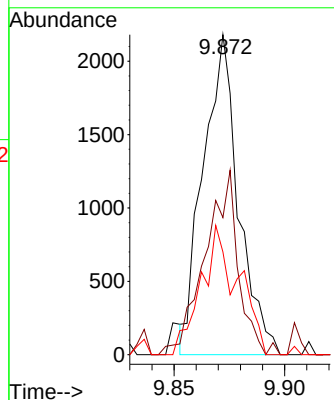
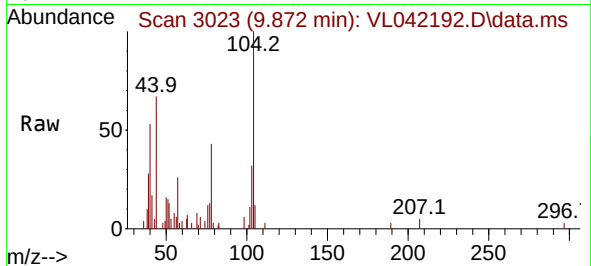




#61  
Styrene  
Concen: 0.073 ppbv  
RT: 9.872 min Scan# 3021  
Delta R.T. 0.006 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

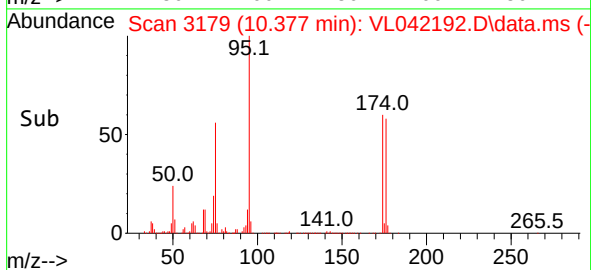
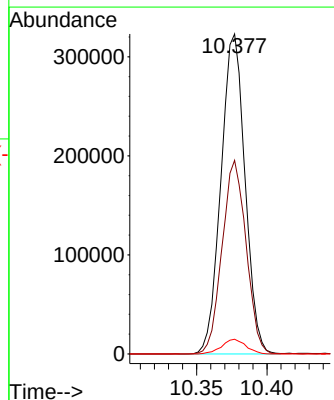
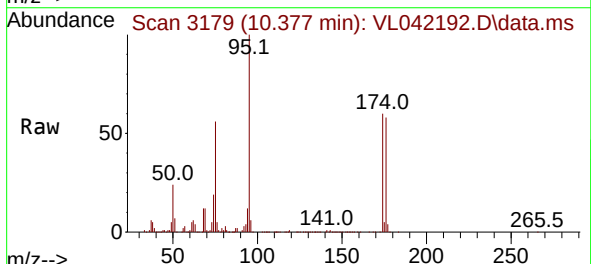
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025DL

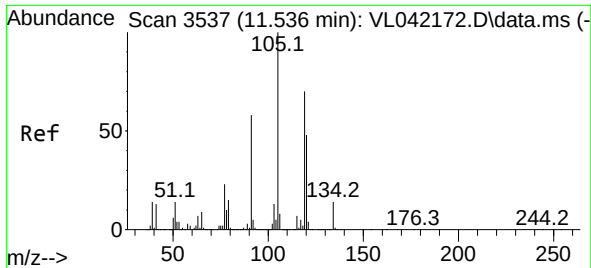
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 104   | Resp: | 2418 |
| Ion Ratio | Lower | Upper |      |
| 104       | 100   |       |      |
| 78        | 56.3  | 41.8  | 62.6 |
| 103       | 43.0  | 37.0  | 55.4 |



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.898 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. 0.006 min  
Lab File: VL042192.D  
Acq: 27 Mar 2025 22:29

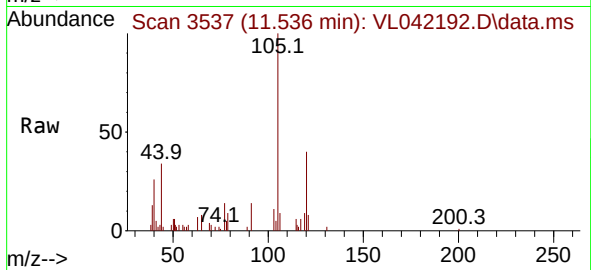
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 95    | Resp: | 383930 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 60.5  | 50.6  | 76.0   |
| 175       | 4.6   | 3.8   | 5.6    |



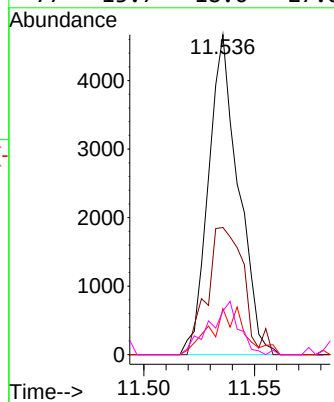
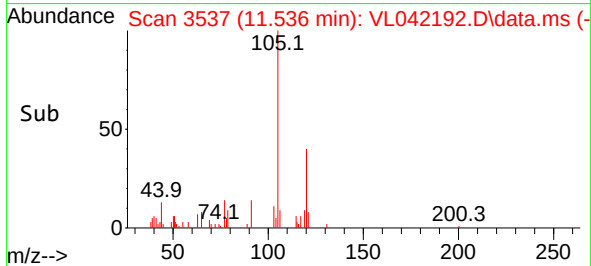


#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.052 ppbv  
 RT: 11.536 min Scan# 31  
 Delta R.T. -0.000 min  
 Lab File: VL042192.D  
 Acq: 27 Mar 2025 22:29

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-B16-1-3262025DL



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 4405  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 39.7  | 38.6  | 58.0  |
| 91       | 14.4  | 46.2  | 69.2# |
| 77       | 13.7  | 18.6  | 27.8# |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042195.D  
 Acq On : 28 Mar 2025 00:06  
 Operator : SY/MD  
 Sample : Q1669-01DL 5X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-3-3262025DL

Quant Time: Mar 28 02:19:56 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

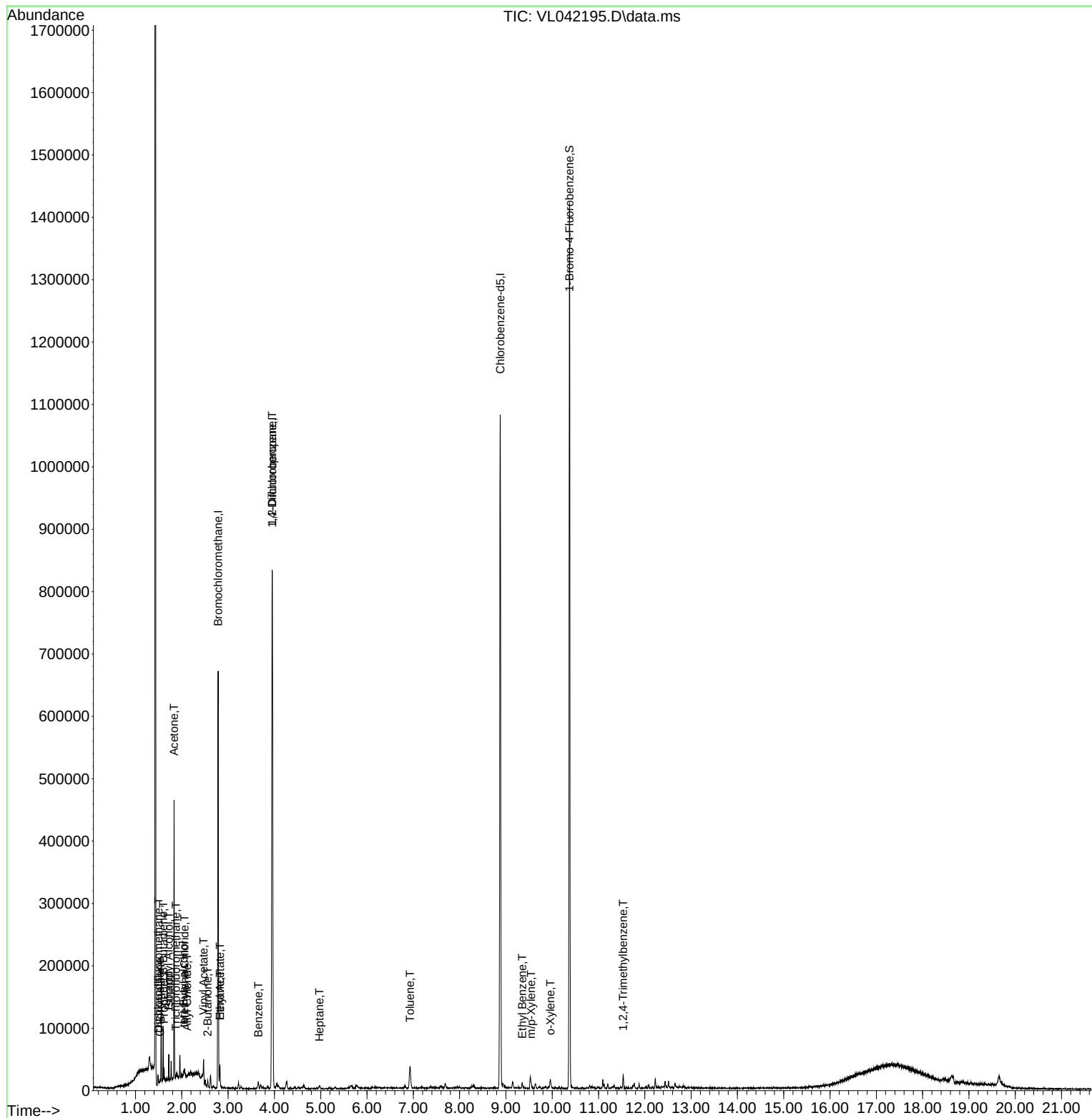
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.784  | 49    | 175494   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.956  | 114   | 495493   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.879  | 117   | 449375   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 365476   | 9.904    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 99.000%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.496  | 85    | 2323     | 0.090    | ppbv # | 63       |
| 4) Chloromethane            | 1.528  | 50    | 885      | 0.084    | ppbv   | 95       |
| 9) Propene                  | 1.615  | 41    | 1849     | 0.152    | ppbv   | 96       |
| 10) Heptane                 | 4.972  | 43    | 1355     | 0.042    | ppbv # | 68       |
| 11) Trichlorofluoromethane  | 1.874  | 101   | 1086     | 0.043    | ppbv   | 87       |
| 13) Ethanol                 | 1.719  | 45    | 13574    | 11.835   | ppbv   | 85       |
| 15) Acetone                 | 1.832  | 43    | 182020   | 7.416    | ppbv   | 96       |
| 16) 1,3-Butadiene           | 1.599  | 39    | 7635     | 0.637    | ppbv # | 31       |
| 17) tert-Butyl alcohol      | 2.039  | 59    | 2983     | 0.098    | ppbv # | 58       |
| 19) Isopropyl Alcohol       | 1.719  | 45    | 13574    | 0.980    | ppbv # | 1        |
| 20) Methylene Chloride      | 2.059  | 84    | 2019     | 0.221    | ppbv # | 68       |
| 21) Allyl Chloride          | 2.114  | 41    | 549      | 0.032    | ppbv # | 26       |
| 23) Vinyl Acetate           | 2.470  | 43    | 10533    | 0.992    | ppbv # | 32       |
| 25) Ethyl Acetate           | 2.823  | 43    | 6375     | 0.100    | ppbv # | 77       |
| 26) Hexane                  | 2.823  | 57    | 8040     | 0.327    | ppbv # | 32       |
| 34) 2-Butanone              | 2.557  | 43    | 6791     | 0.189    | ppbv   | 100      |
| 36) Benzene                 | 3.655  | 78    | 5647     | 0.115    | ppbv   | 92       |
| 39) 1,2-Dichloropropane     | 3.952  | 63    | 129498   | 7.239    | ppbv # | 23       |
| 53) Toluene                 | 6.927  | 91    | 24689    | 0.424    | ppbv   | 97       |
| 58) Ethyl Benzene           | 9.351  | 91    | 4541     | 0.057    | ppbv # | 81       |
| 59) m/p-Xylene              | 9.545  | 91    | 2140     | 0.034    | ppbv # | 31       |
| 60) o-Xylene                | 9.963  | 91    | 5392     | 0.084    | ppbv   | 94       |
| 74) 1,2,4-Trimethylbenzene  | 11.533 | 105   | 7390     | 0.092    | ppbv # | 59       |

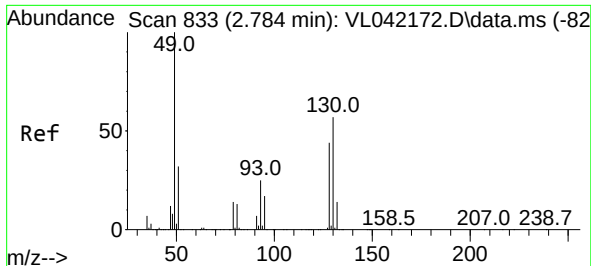
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042195.D  
Acq On : 28 Mar 2025 00:06  
Operator : SY/MD  
Sample : Q1669-01DL 5X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL

Quant Time: Mar 28 02:19:56 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

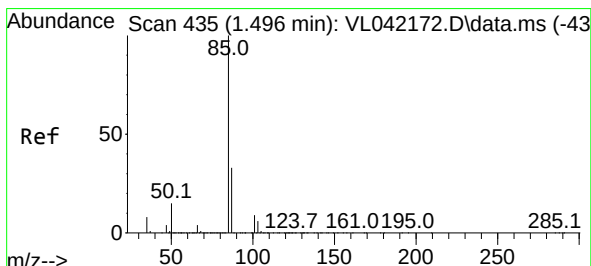
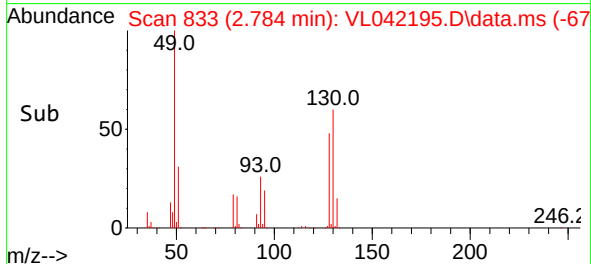
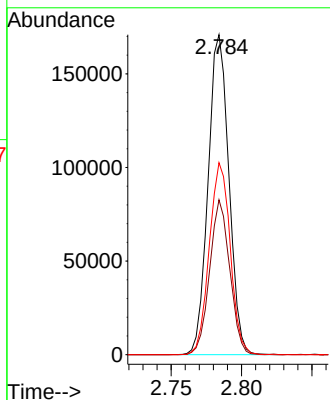
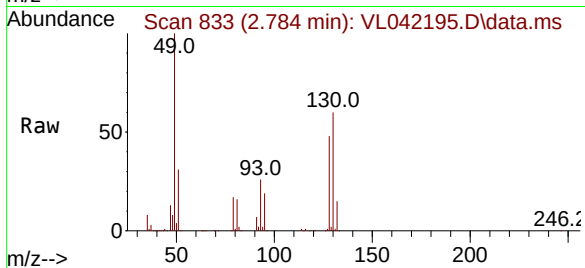




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.784 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: VL042195.D  
 Acq: 28 Mar 2025 00:06

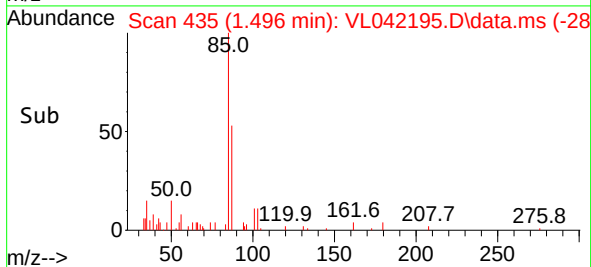
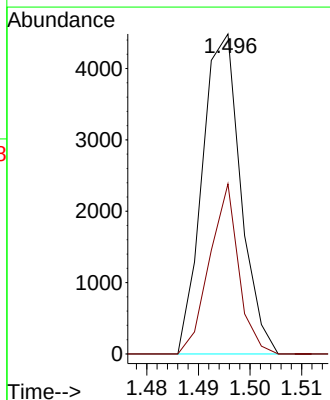
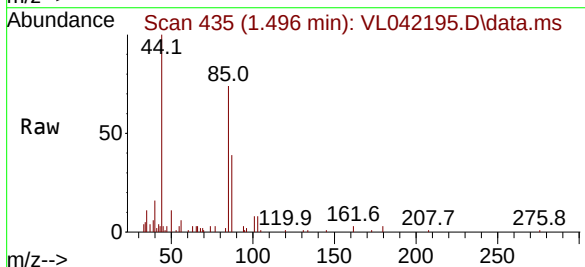
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-3-3262025DL

Tgt Ion: 49 Resp: 175494  
 Ion Ratio Lower Upper  
 49 100  
 128 47.0 22.9 68.5  
 130 60.4 28.8 86.4

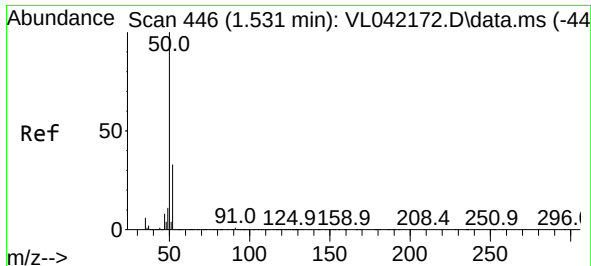


#2  
 Dichlorodifluoromethane  
 Concen: 0.090 ppbv  
 RT: 1.496 min Scan# 435  
 Delta R.T. -0.000 min  
 Lab File: VL042195.D  
 Acq: 28 Mar 2025 00:06

Tgt Ion: 85 Resp: 2323  
 Ion Ratio Lower Upper  
 85 100  
 87 53.2 26.1 39.1#



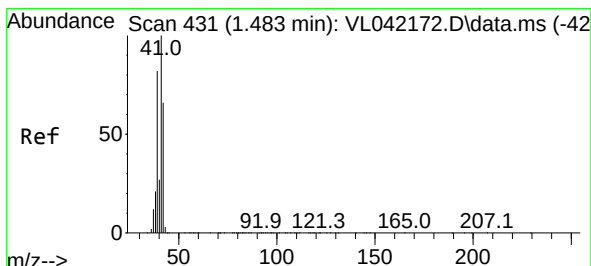
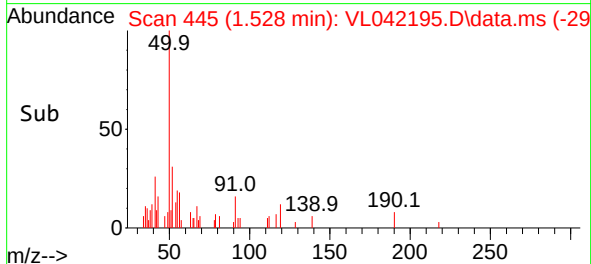
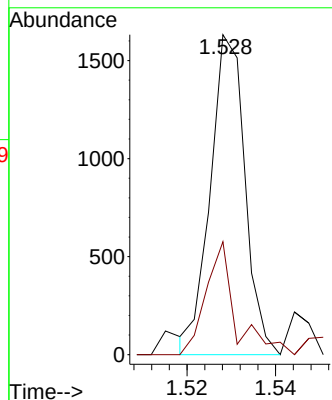
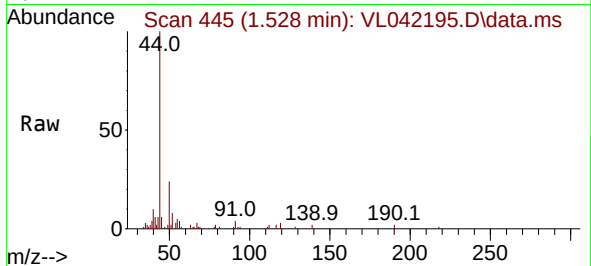




#4  
Chloromethane  
Concen: 0.084 ppbv  
RT: 1.528 min Scan# 445  
Delta R.T. -0.003 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

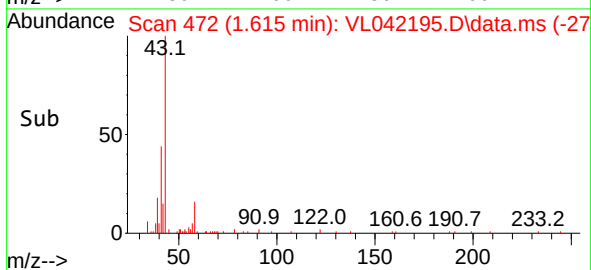
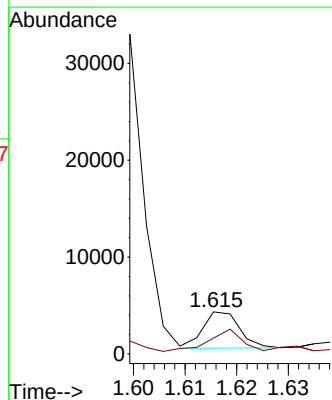
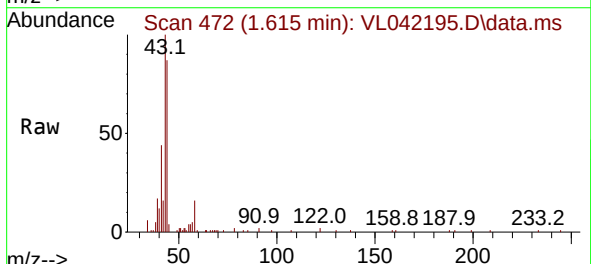
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL

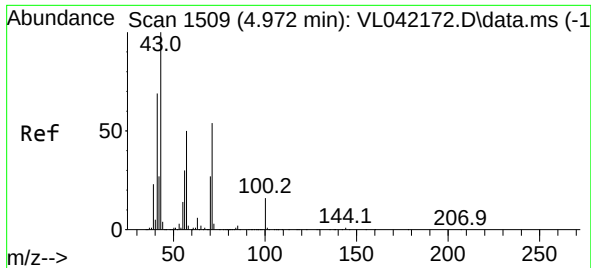
Tgt Ion: 50 Resp: 885  
Ion Ratio Lower Upper  
50 100  
52 35.3 26.1 39.1



#9  
Propene  
Concen: 0.152 ppbv  
RT: 1.615 min Scan# 472  
Delta R.T. 0.133 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

Tgt Ion: 41 Resp: 1849  
Ion Ratio Lower Upper  
41 100  
42 66.0 55.4 83.2

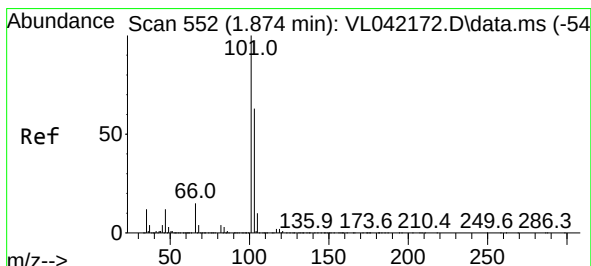
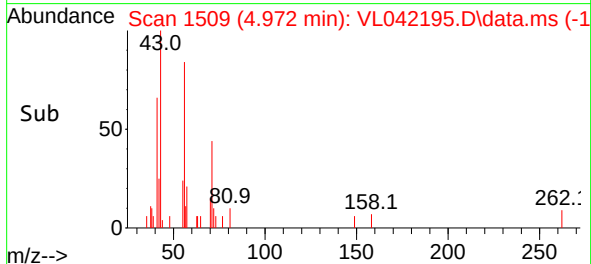
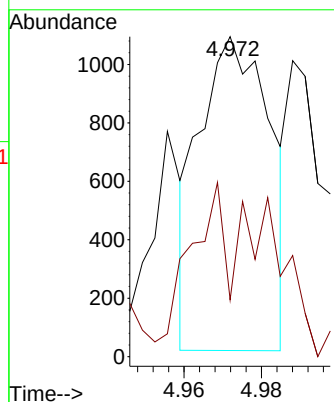
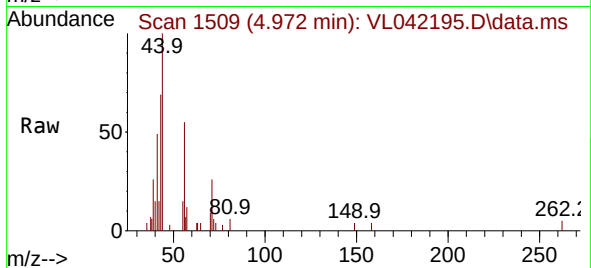




#10  
 Heptane  
 Concen: 0.042 ppbv  
 RT: 4.972 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VL042195.D  
 Acq: 28 Mar 2025 00:06

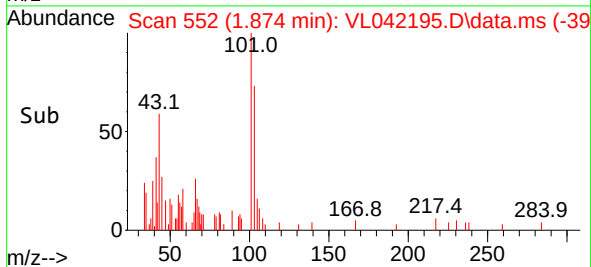
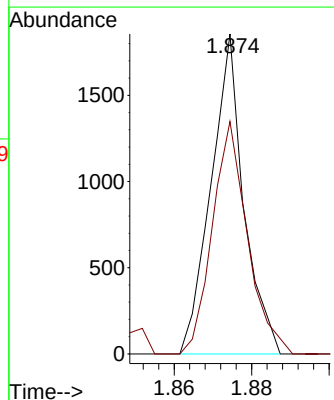
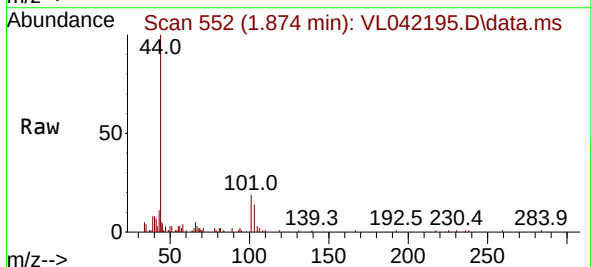
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-3-3262025DL

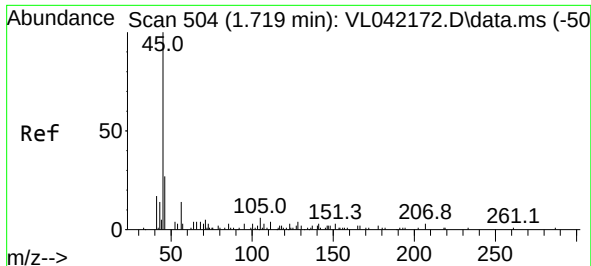
Tgt Ion: 43 Resp: 1355  
 Ion Ratio Lower Upper  
 43 100  
 57 71.4 39.4 59.2#



#11  
 Trichlorofluoromethane  
 Concen: 0.043 ppbv  
 RT: 1.874 min Scan# 552  
 Delta R.T. -0.000 min  
 Lab File: VL042195.D  
 Acq: 28 Mar 2025 00:06

Tgt Ion: 101 Resp: 1086  
 Ion Ratio Lower Upper  
 101 100  
 103 72.6 50.2 75.2

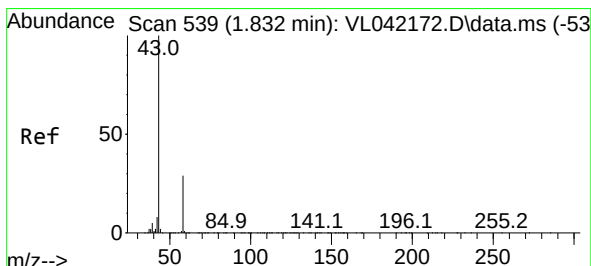
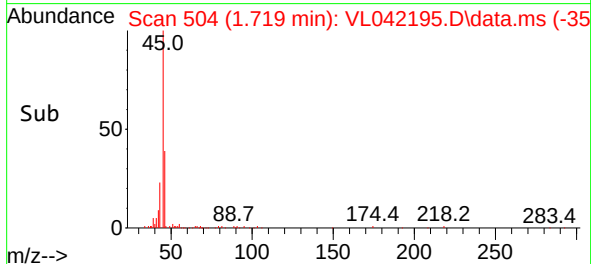
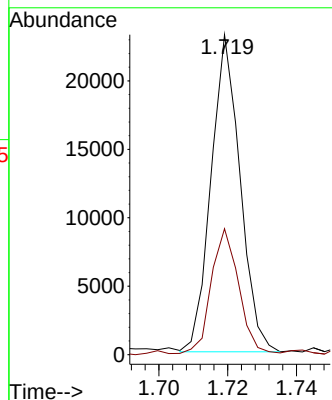
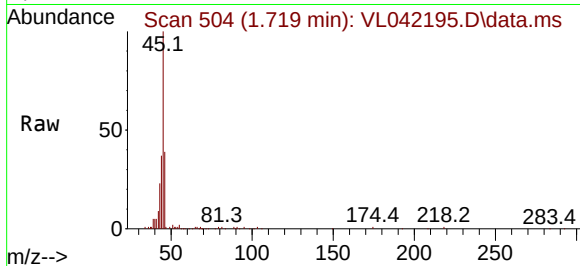




#13  
 Ethanol  
 Concen: 11.835 ppbv  
 RT: 1.719 min Scan# 504  
 Delta R.T. -0.000 min  
 Lab File: VL042195.D  
 Acq: 28 Mar 2025 00:06

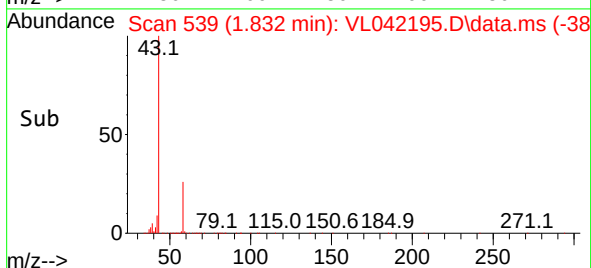
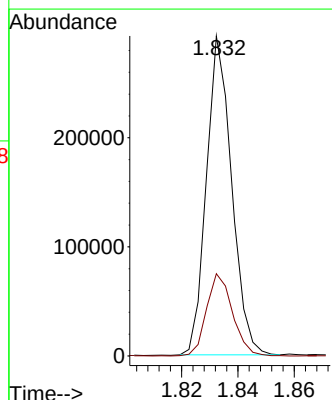
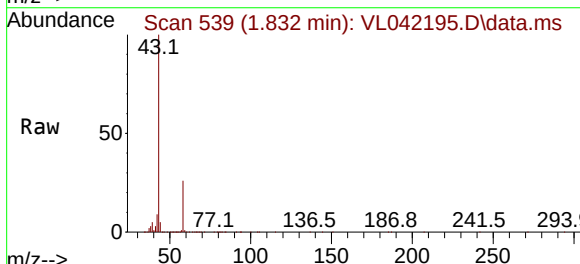
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-3-3262025DL

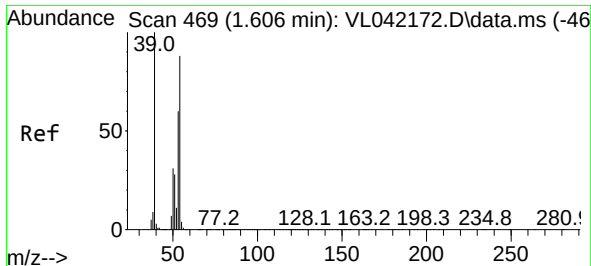
Tgt Ion: 45 Resp: 13574  
 Ion Ratio Lower Upper  
 45 100  
 46 40.2 20.2 80.8



#15  
 Acetone  
 Concen: 7.416 ppbv  
 RT: 1.832 min Scan# 539  
 Delta R.T. -0.000 min  
 Lab File: VL042195.D  
 Acq: 28 Mar 2025 00:06

Tgt Ion: 43 Resp: 182020  
 Ion Ratio Lower Upper  
 43 100  
 58 26.8 23.2 34.8





#16

1,3-Butadiene

Concen: 0.637 ppbv

RT: 1.599 min Scan# 41

Delta R.T. -0.007 min

Lab File: VL042195.D

Acq: 28 Mar 2025 00:06

Instrument :

MSVOA\_L

ClientSampleId :

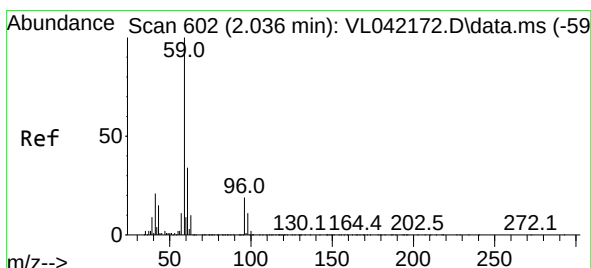
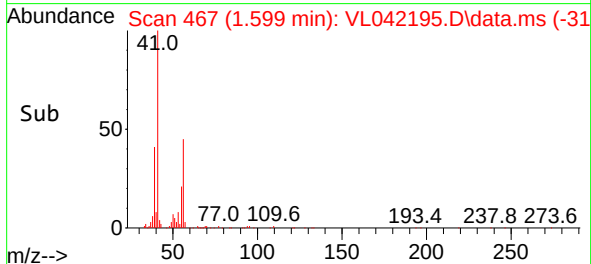
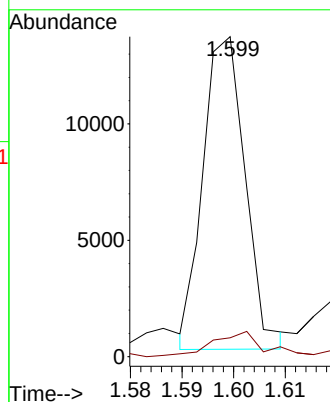
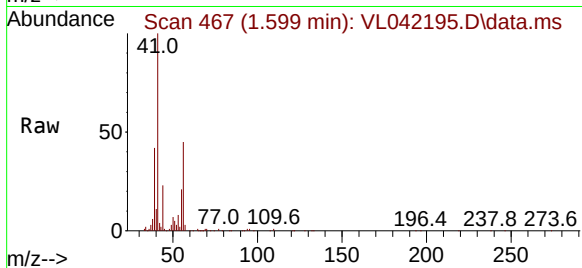
IA-B9-3-3262025DL

Tgt Ion: 39 Resp: 7635

Ion Ratio Lower Upper

39 100

54 17.1 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.098 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042195.D

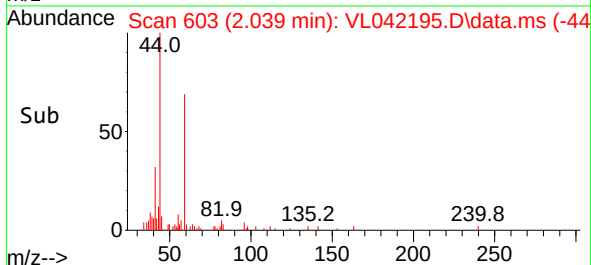
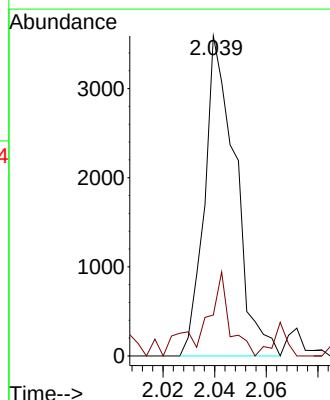
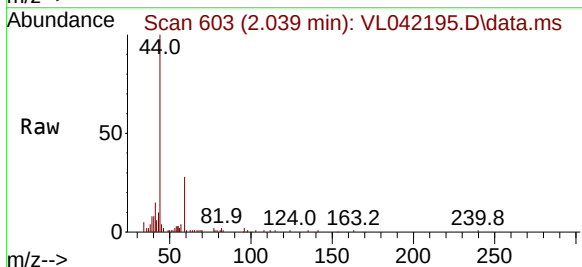
Acq: 28 Mar 2025 00:06

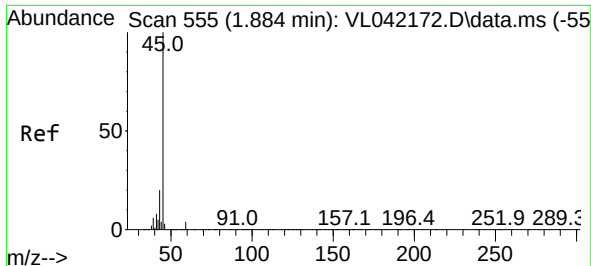
Tgt Ion: 59 Resp: 2983

Ion Ratio Lower Upper

59 100

57 27.3 8.9 13.3#

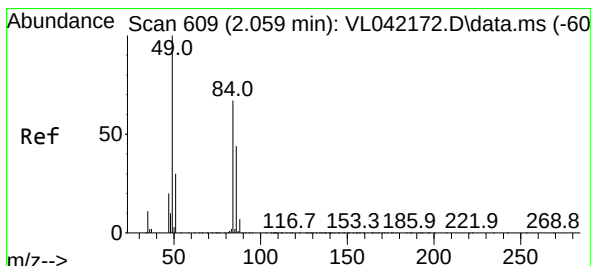
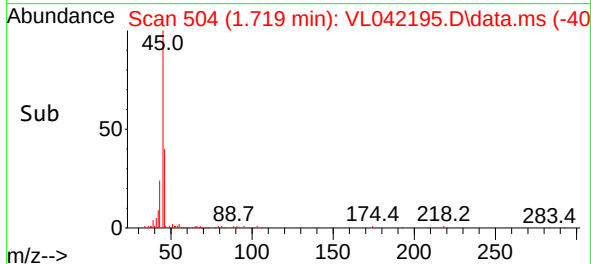
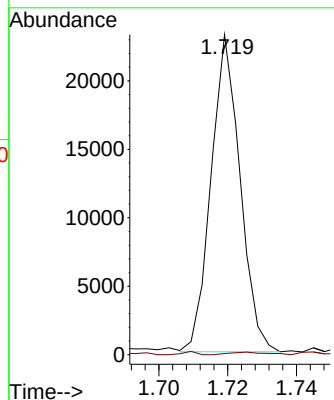
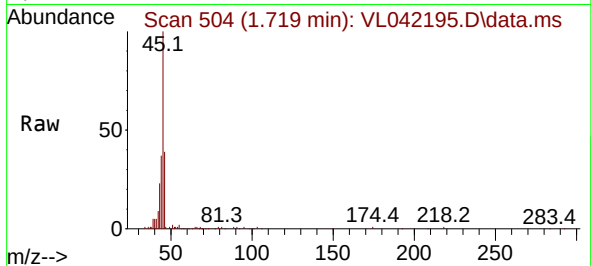




#19  
Isopropyl Alcohol  
Concen: 0.980 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. -0.165 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

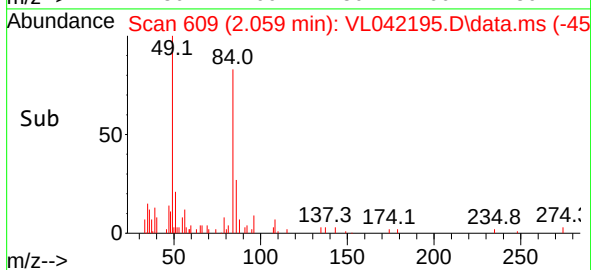
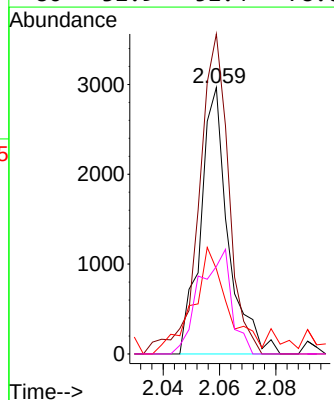
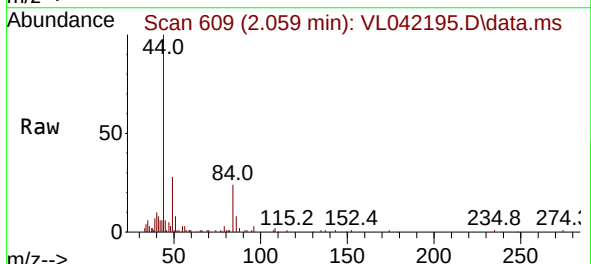
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL

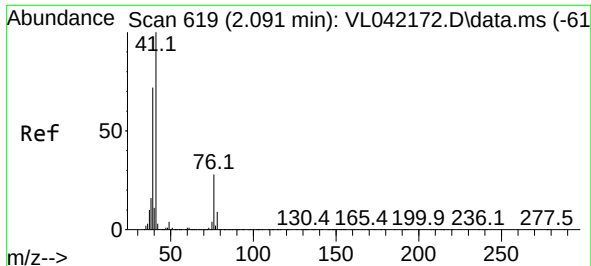
Tgt Ion: 45 Resp: 13574  
Ion Ratio Lower Upper  
45 100  
58 358.8 36.9 55.3#



#20  
Methylene Chloride  
Concen: 0.221 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.000 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

Tgt Ion: 84 Resp: 2019  
Ion Ratio Lower Upper  
84 100  
49 111.6 120.2 180.4#  
51 31.6 37.4 56.0#  
86 32.9 52.4 78.6#

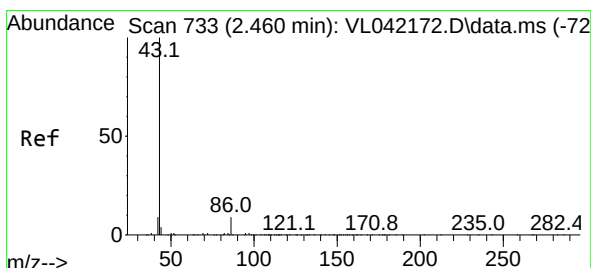
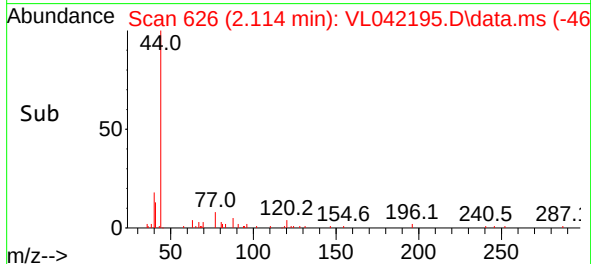
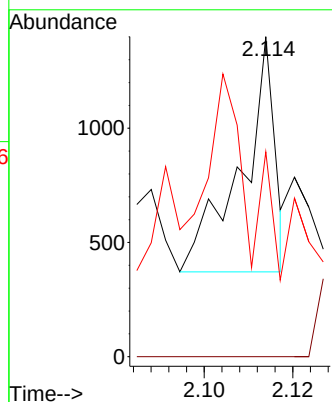
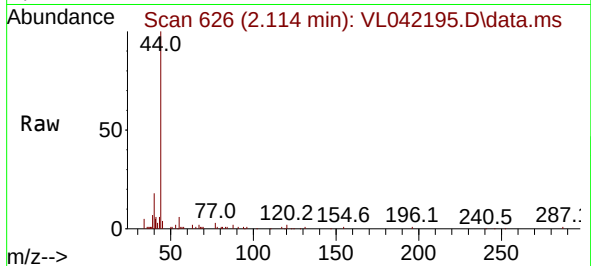




#21  
 Allyl Chloride  
 Concen: 0.032 ppbv  
 RT: 2.114 min Scan# 619  
 Delta R.T. 0.023 min  
 Lab File: VL042195.D  
 Acq: 28 Mar 2025 00:06

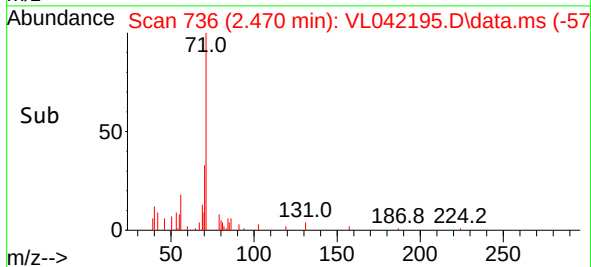
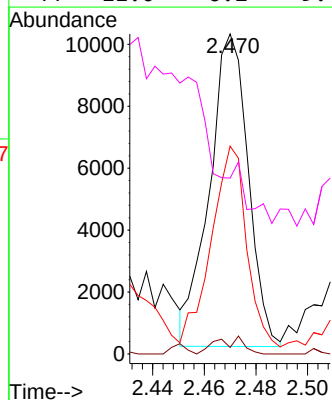
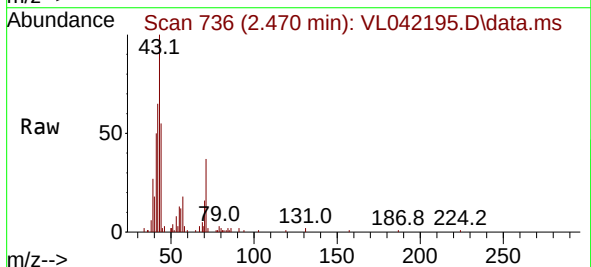
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-3-3262025DL

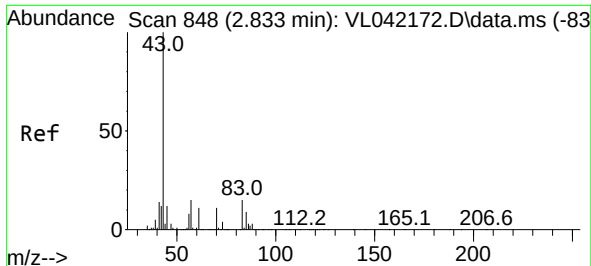
Tgt Ion: 41 Resp: 549  
 Ion Ratio Lower Upper  
 41 100  
 76 0.0 24.1 36.1#  
 39 146.1 61.1 91.7#



#23  
 Vinyl Acetate  
 Concen: 0.992 ppbv  
 RT: 2.470 min Scan# 736  
 Delta R.T. 0.010 min  
 Lab File: VL042195.D  
 Acq: 28 Mar 2025 00:06

Tgt Ion: 43 Resp: 10533  
 Ion Ratio Lower Upper  
 43 100  
 86 2.1 5.5 8.3#  
 42 65.2 8.6 13.0#  
 44 11.0 6.2 9.4#





#25

Ethyl Acetate

Concen: 0.100 ppbv

RT: 2.823 min Scan# 84

Delta R.T. -0.010 min

Lab File: VL042195.D

Acq: 28 Mar 2025 00:06

Instrument :

MSVOA\_L

ClientSampleId :

IA-B9-3-3262025DL

Tgt Ion: 43 Resp: 6375

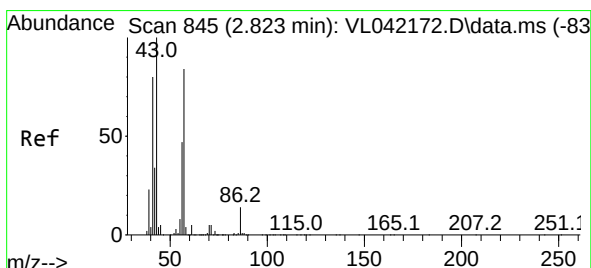
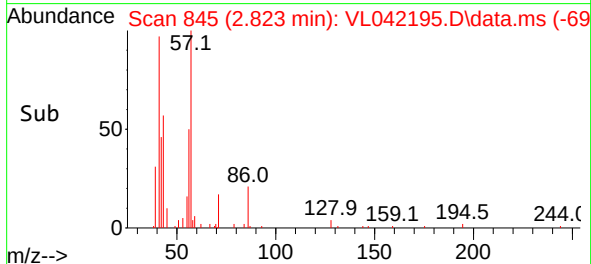
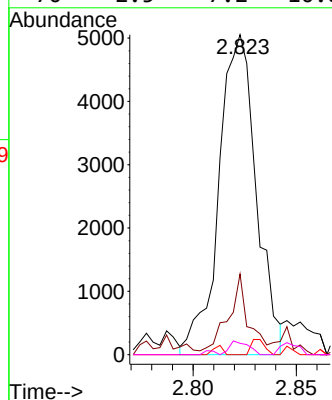
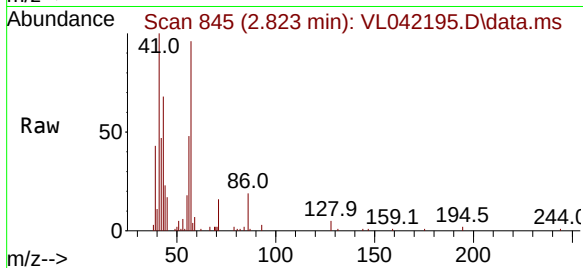
Ion Ratio Lower Upper

43 100

45 22.8 8.2 12.2#

61 3.3 7.3 10.9#

70 2.5 7.2 10.8#



#26

Hexane

Concen: 0.327 ppbv

RT: 2.823 min Scan# 845

Delta R.T. -0.000 min

Lab File: VL042195.D

Acq: 28 Mar 2025 00:06

Tgt Ion: 57 Resp: 8040

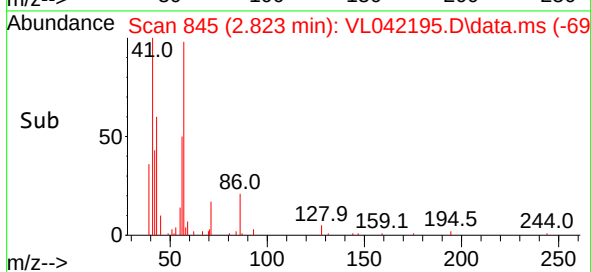
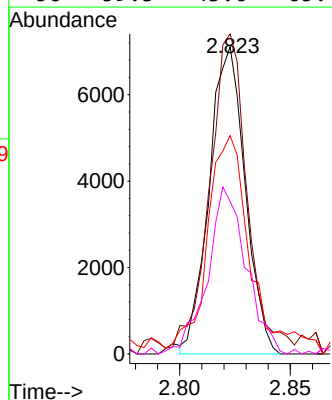
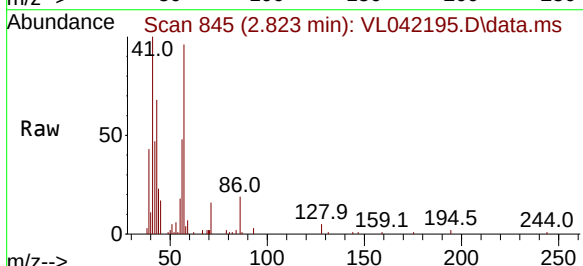
Ion Ratio Lower Upper

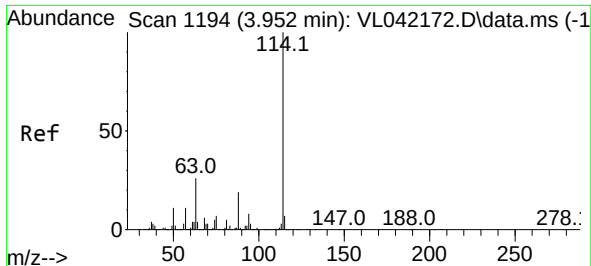
57 100

41 117.4 76.6 114.8#

43 86.5 207.8 311.8#

56 59.3 43.6 65.4

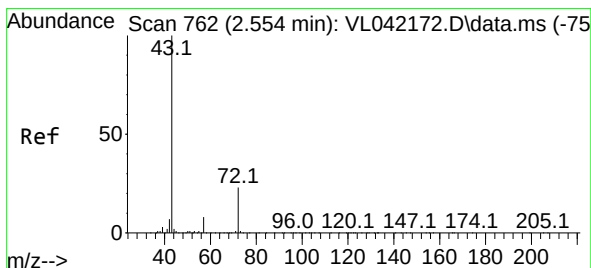
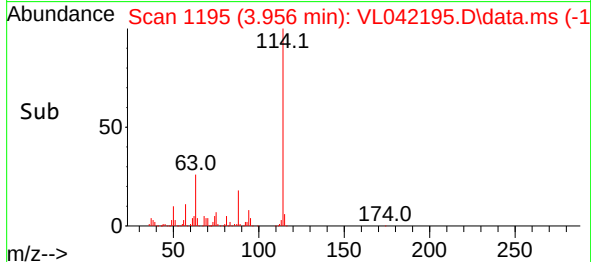
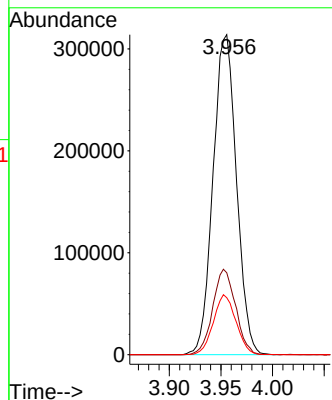
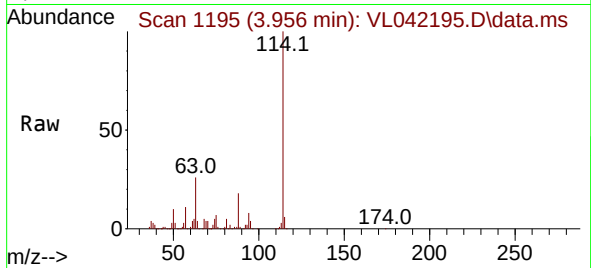




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.956 min Scan# 1195  
Delta R.T. 0.003 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

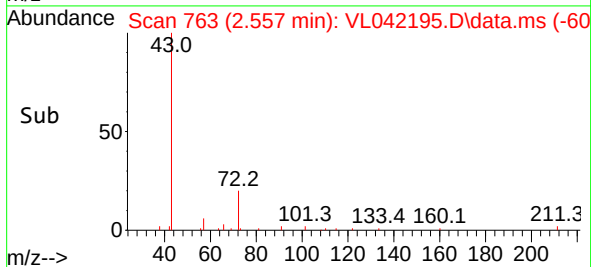
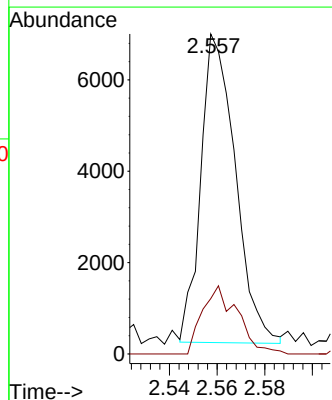
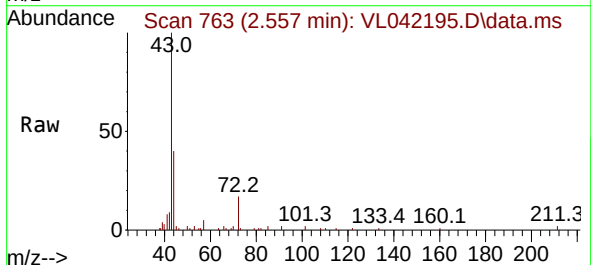
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL

Tgt Ion:114 Resp: 495493  
Ion Ratio Lower Upper  
114 100  
63 26.2 20.7 31.1  
88 18.1 15.0 22.4

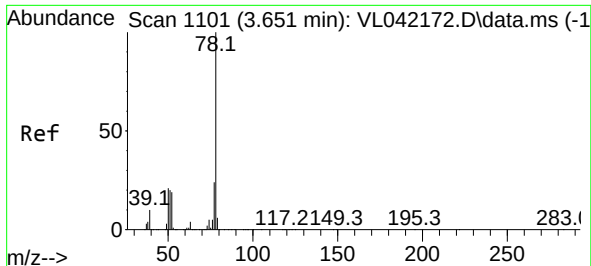


#34  
2-Butanone  
Concen: 0.189 ppbv  
RT: 2.557 min Scan# 763  
Delta R.T. 0.003 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

Tgt Ion: 43 Resp: 6791  
Ion Ratio Lower Upper  
43 100  
72 22.7 18.2 27.2



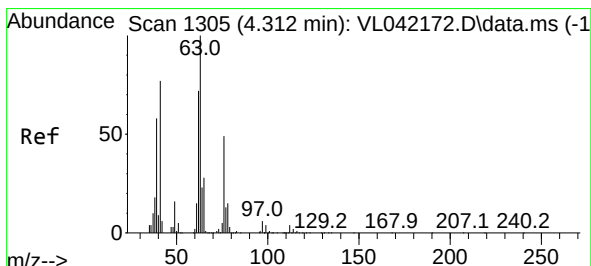
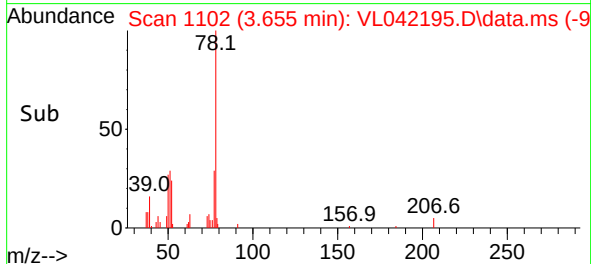
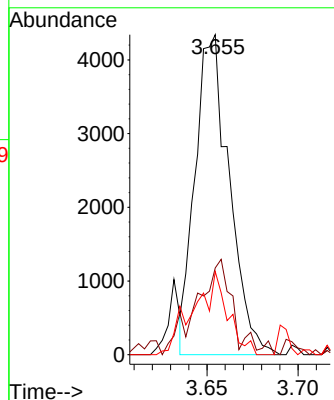
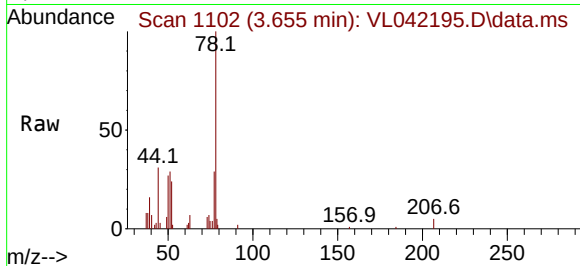




#36  
Benzene  
Concen: 0.115 ppbv  
RT: 3.655 min Scan# 1101  
Delta R.T. 0.003 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

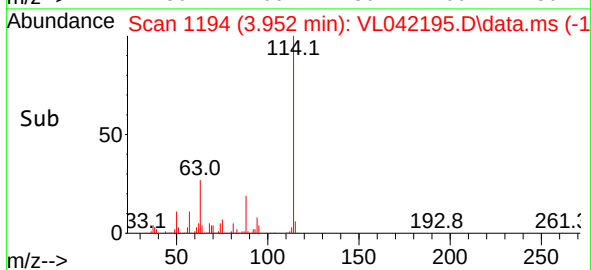
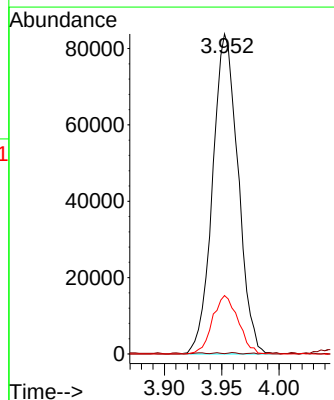
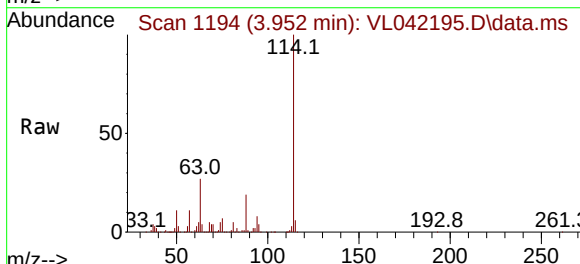
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL

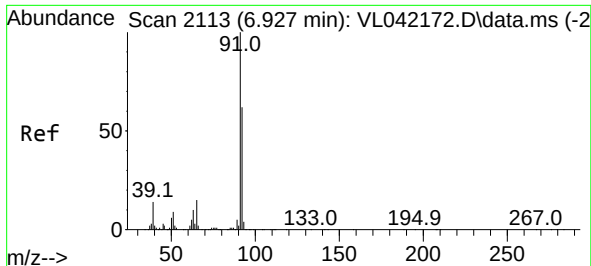
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 78    | Resp: | 5647  |
| Ion      | Ratio | Lower | Upper |
| 78       | 100   |       |       |
| 77       | 27.1  | 19.1  | 28.7  |
| 50       | 16.7  | 16.6  | 24.8  |



#39  
1,2-Dichloropropane  
Concen: 7.239 ppbv  
RT: 3.952 min Scan# 1194  
Delta R.T. -0.359 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 129498 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 41       | 0.0   | 61.7  | 92.5#  |
| 62       | 18.3  | 57.6  | 86.4#  |

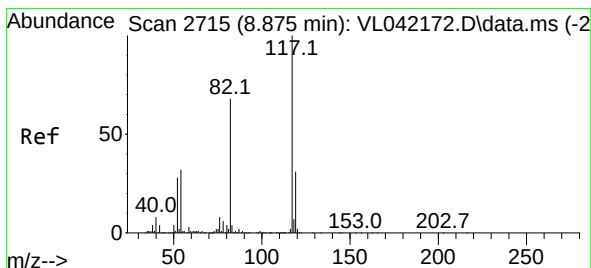
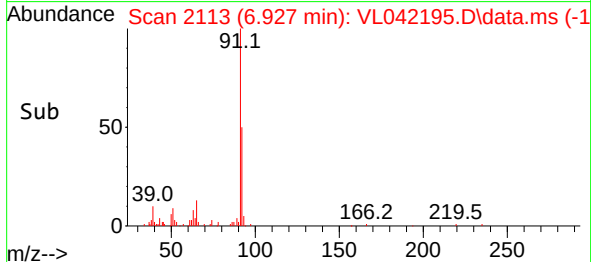
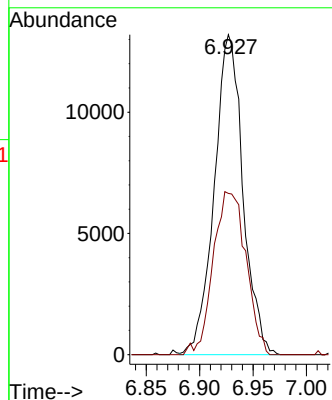
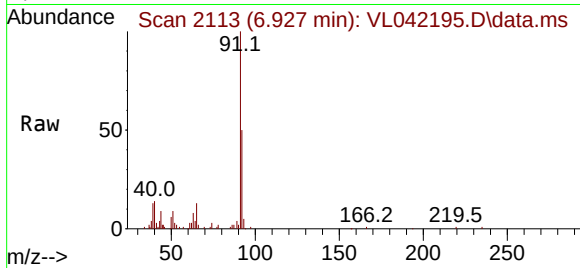




#53  
Toluene  
Concen: 0.424 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. -0.000 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

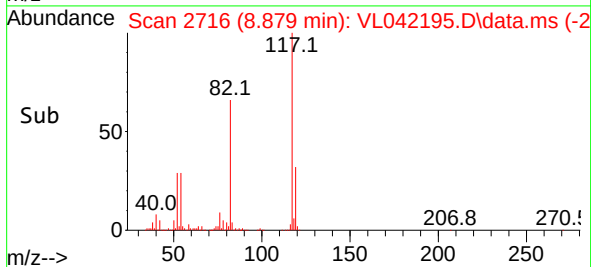
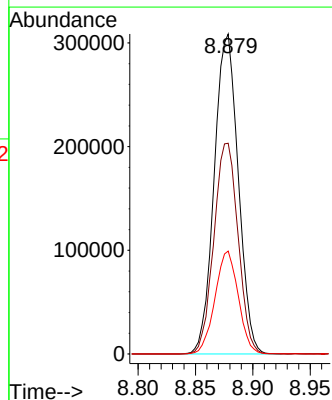
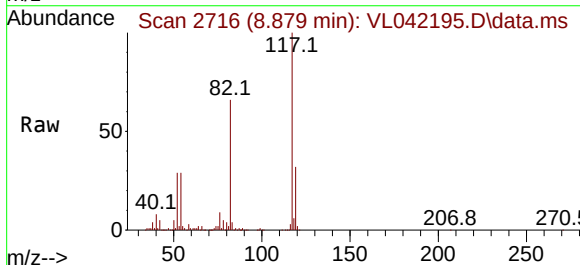
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL

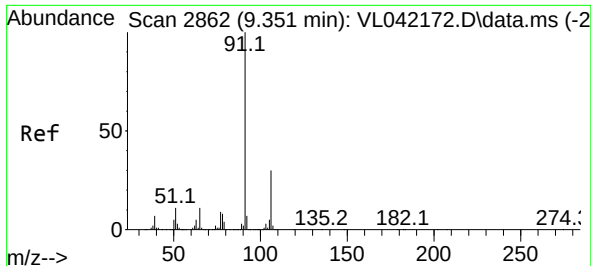
Tgt Ion: 91 Resp: 24689  
Ion Ratio Lower Upper  
91 100  
92 58.1 48.4 72.6



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.879 min Scan# 2716  
Delta R.T. 0.003 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

Tgt Ion: 117 Resp: 449375  
Ion Ratio Lower Upper  
117 100  
82 66.4 55.8 83.6  
119 31.3 25.5 38.3

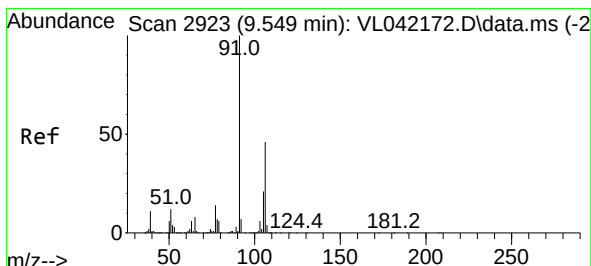
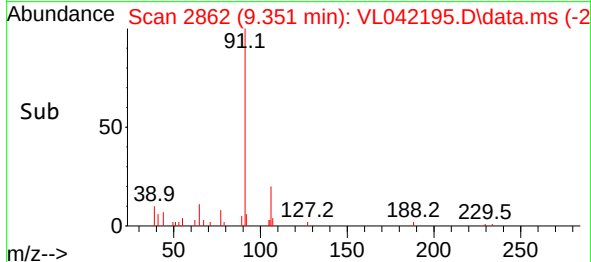
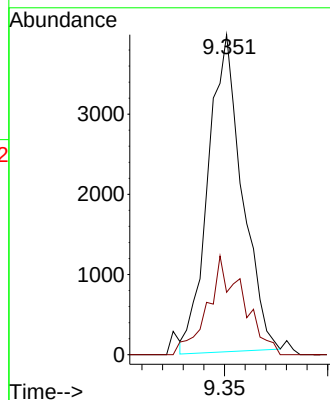
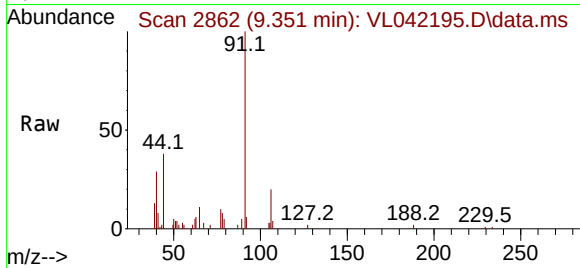




#58  
Ethyl Benzene  
Concen: 0.057 ppbv  
RT: 9.351 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

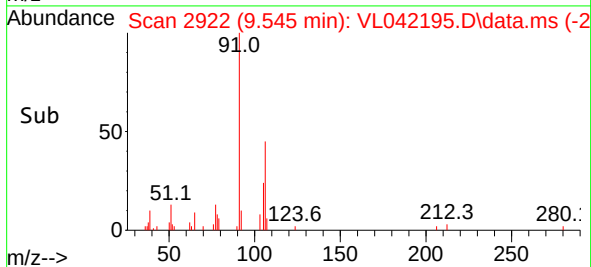
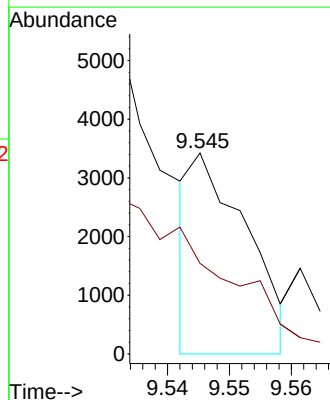
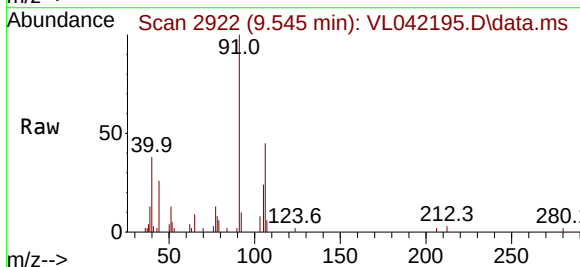
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B9-3-3262025DL

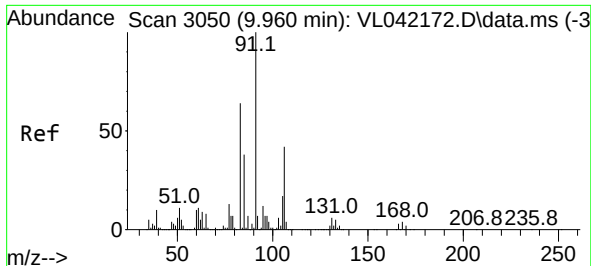
Tgt Ion: 91 Resp: 4541  
Ion Ratio Lower Upper  
91 100  
106 19.9 24.2 36.2#



#59  
m/p-Xylene  
Concen: 0.034 ppbv  
RT: 9.545 min Scan# 2922  
Delta R.T. -0.003 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

Tgt Ion: 91 Resp: 2140  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.4 54.6#

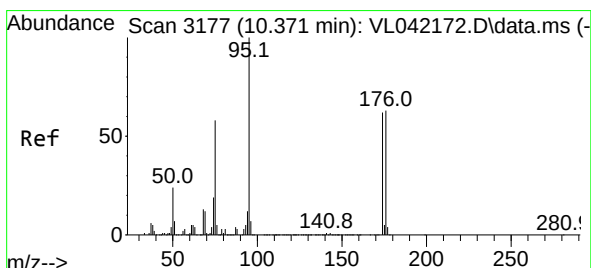
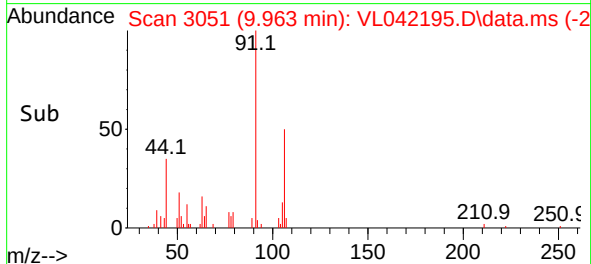
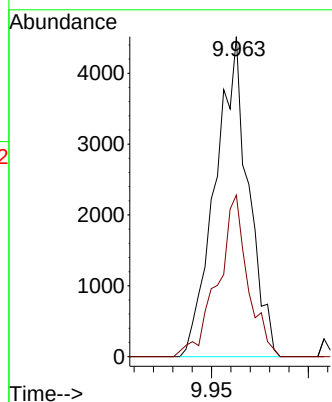
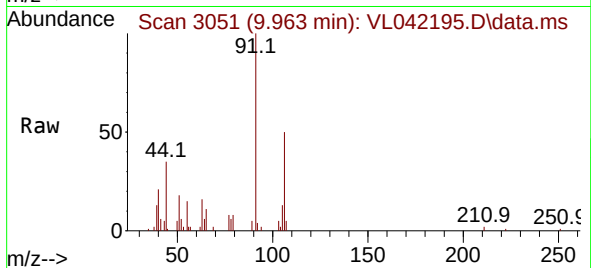




#60  
o-Xylene  
Concen: 0.084 ppbv  
RT: 9.963 min Scan# 3051  
Delta R.T. 0.003 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

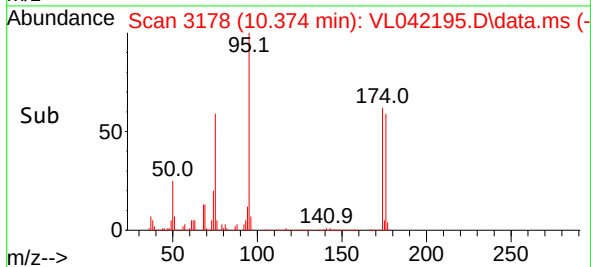
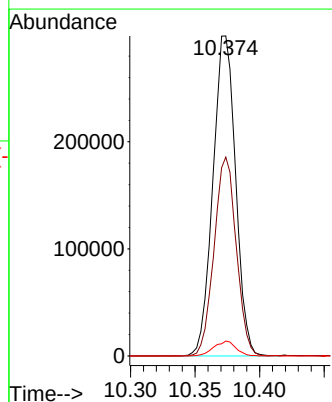
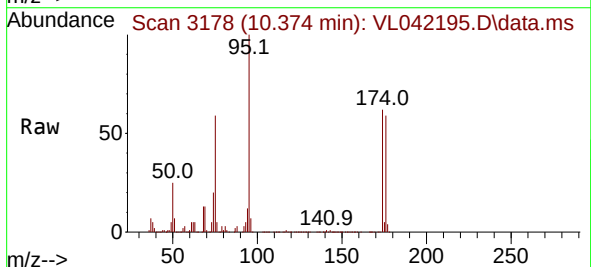
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA-B9-3-3262025DL

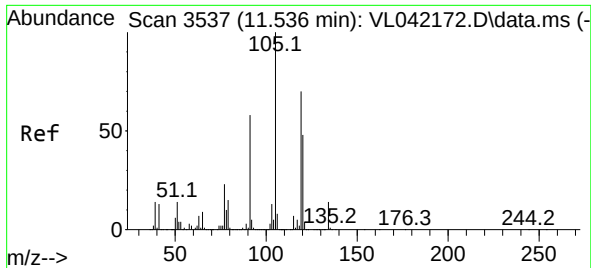
Tgt Ion: 91 Resp: 5392  
Ion Ratio Lower Upper  
91 100  
106 45.6 20.8 62.5



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.904 ppbv  
RT: 10.374 min Scan# 3178  
Delta R.T. 0.003 min  
Lab File: VL042195.D  
Acq: 28 Mar 2025 00:06

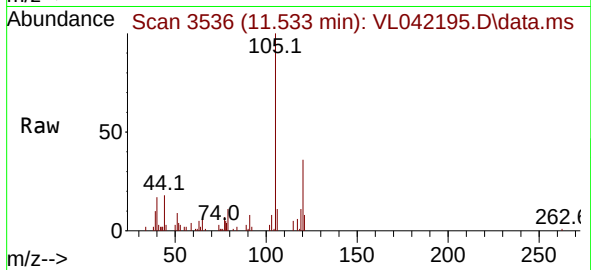
Tgt Ion: 95 Resp: 365476  
Ion Ratio Lower Upper  
95 100  
174 60.7 50.6 76.0  
175 4.6 3.8 5.6



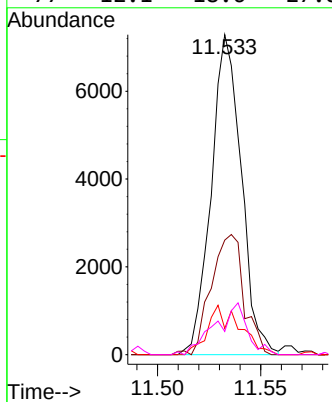
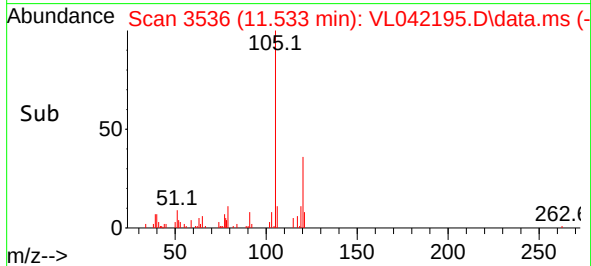


#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.092 ppbv  
 RT: 11.533 min Scan# 31  
 Delta R.T. -0.003 min  
 Lab File: VL042195.D  
 Acq: 28 Mar 2025 00:06

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B9-3-3262025DL



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 7390  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 35.8  | 38.6  | 58.0# |
| 91       | 8.2   | 46.2  | 69.2# |
| 77       | 12.1  | 18.6  | 27.8# |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042197.D  
 Acq On : 28 Mar 2025 01:20  
 Operator : SY/MD  
 Sample : Q1669-05  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-B16-3-3262025

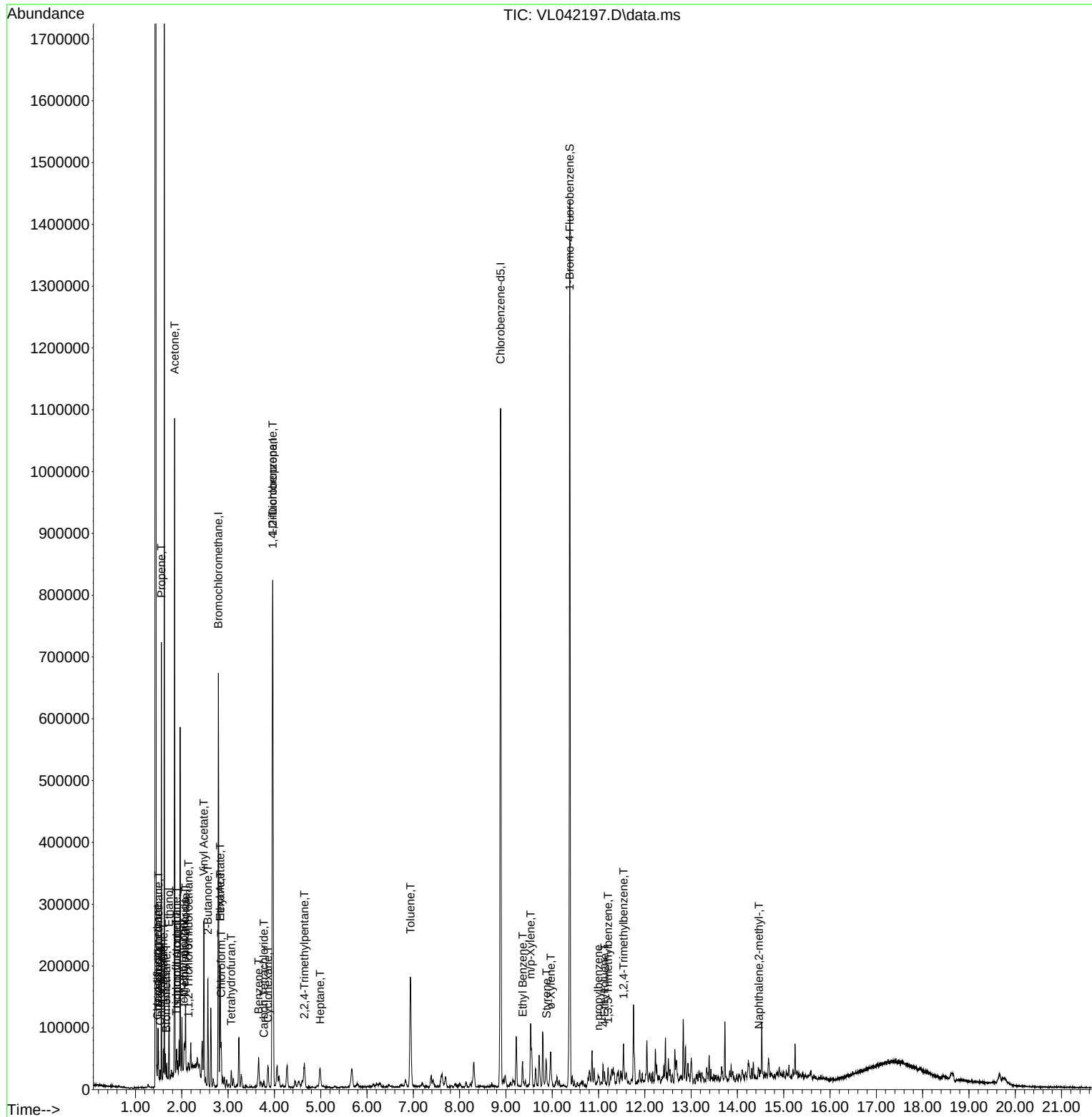
Quant Time: Mar 28 23:03:06 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 2025  
 Response via : Initial Calibration

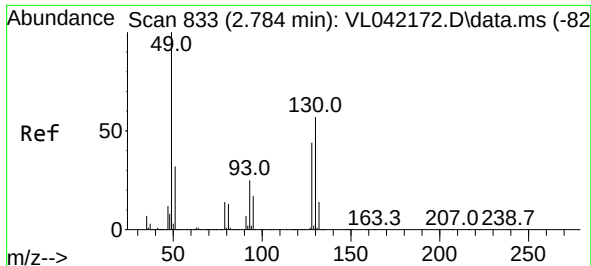
| Compound                      |  |        | R.T.   | QIon     | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--|--------|--------|----------|----------|------------|--------|----------|
| -----                         |  |        |        |          |          |            |        |          |
| Internal Standards            |  |        |        |          |          |            |        |          |
| 1) Bromochloromethane         |  |        | 2.790  | 49       | 172645   | 10.000     | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       |  |        | 3.965  | 114      | 493948   | 10.000     | ppbv   | 0.01     |
| 55) Chlorobenzene-d5          |  |        | 8.885  | 117      | 445312   | 10.000     | ppbv   | 0.00     |
| System Monitoring Compounds   |  |        |        |          |          |            |        |          |
| 68) 1-Bromo-4-Fluorobenzene   |  |        | 10.380 | 95       | 368899   | 10.088     | ppbv   | 0.00     |
| Spiked Amount                 |  | 10.000 | Range  | 65 - 135 | Recovery | = 100.900% |        |          |
| Target Compounds              |  |        |        |          |          |            |        | Qvalue   |
| 2) Dichlorodifluoromethane    |  |        | 1.499  | 85       | 10972    | 0.430      | ppbv   | 92       |
| 3) Chlorodifluoromethane      |  |        | 1.476  | 51       | 9198     | 0.353      | ppbv   | 93       |
| 4) Chloromethane              |  |        | 1.531  | 50       | 3716     | 0.357      | ppbv   | 99       |
| 6) Bromomethane               |  |        | 1.667  | 94       | 189      | 0.040      | ppbv # | 64       |
| 9) Propene                    |  |        | 1.560  | 41       | 73858    | 6.188      | ppbv   | 98       |
| 10) Heptane                   |  |        | 4.985  | 43       | 12702    | 0.400      | ppbv   | 91       |
| 11) Trichlorofluoromethane    |  |        | 1.881  | 101      | 5673     | 0.229      | ppbv   | 99       |
| 12) 1,1,2-Trichlorotrifluo... |  |        | 2.143  | 101      | 1548     | 0.076      | ppbv   | 99       |
| 13) Ethanol                   |  |        | 1.722  | 45       | 56814    | 50.352     | ppbv   | 81       |
| 15) Acetone                   |  |        | 1.845  | 43       | 266878   | 11.053     | ppbv # | 74       |
| 16) 1,3-Butadiene             |  |        | 1.602  | 39       | 5398     | 0.458      | ppbv # | 11       |
| 17) tert-Butyl alcohol        |  |        | 2.046  | 59       | 3401     | 0.113      | ppbv # | 71       |
| 19) Isopropyl Alcohol         |  |        | 1.890  | 45       | 16035    | 1.177      | ppbv # | 1        |
| 20) Methylene Chloride        |  |        | 2.065  | 84       | 6666     | 0.741      | ppbv   | 95       |
| 21) Allyl Chloride            |  |        | 2.081  | 41       | 8576     | 0.504      | ppbv # | 1        |
| 23) Vinyl Acetate             |  |        | 2.476  | 43       | 76691    | 7.339      | ppbv # | 54       |
| 25) Ethyl Acetate             |  |        | 2.829  | 43       | 35772    | 0.571      | ppbv # | 85       |
| 26) Hexane                    |  |        | 2.829  | 57       | 45421    | 1.876      | ppbv # | 34       |
| 29) Chloroform                |  |        | 2.852  | 83       | 21281    | 0.601      | ppbv   | 99       |
| 30) Cyclohexane               |  |        | 3.858  | 84       | 7683     | 0.366      | ppbv # | 87       |
| 34) 2-Butanone                |  |        | 2.564  | 43       | 104671   | 2.922      | ppbv   | 96       |
| 35) Carbon Tetrachloride      |  |        | 3.774  | 117      | 1373     | 0.036      | ppbv # | 69       |
| 36) Benzene                   |  |        | 3.658  | 78       | 26954    | 0.550      | ppbv   | 97       |
| 39) 1,2-Dichloropropane       |  |        | 3.962  | 63       | 126240   | 7.079      | ppbv # | 22       |
| 41) Tetrahydrofuran           |  |        | 3.065  | 42       | 4698     | 0.228      | ppbv # | 60       |
| 44) 2,2,4-Trimethylpentane    |  |        | 4.648  | 57       | 32093    | 0.388      | ppbv # | 76       |
| 53) Toluene                   |  |        | 6.940  | 91       | 124001   | 2.136      | ppbv   | 98       |
| 58) Ethyl Benzene             |  |        | 9.361  | 91       | 20976    | 0.265      | ppbv   | 95       |
| 59) m/p-Xylene                |  |        | 9.532  | 91       | 64820    | 1.026      | ppbv   | 99       |
| 60) o-Xylene                  |  |        | 9.969  | 91       | 22977    | 0.363      | ppbv   | 94       |
| 61) Styrene                   |  |        | 9.875  | 104      | 11230    | 0.359      | ppbv   | 96       |
| 64) n-propylbenzene           |  |        | 10.995 | 120      | 1196     | 0.049      | ppbv   | 66       |
| 72) 4-Ethyltoluene            |  |        | 11.128 | 105      | 5978     | 0.076      | ppbv # | 55       |
| 73) 1,3,5-Trimethylbenzene    |  |        | 11.205 | 105      | 5610     | 0.081      | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    |  |        | 11.539 | 105      | 20838    | 0.263      | ppbv # | 72       |
| 80) Naphthalene,2-methyl-     |  |        | 14.468 | 142      | 2467     | 0.058      | ppbv # | 60       |

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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
SSSG-B16-3-3262025

Quant Time: Mar 28 23:03:06 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration

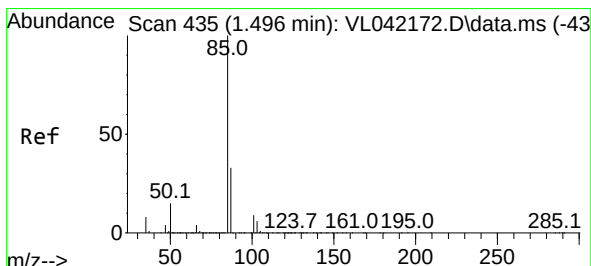
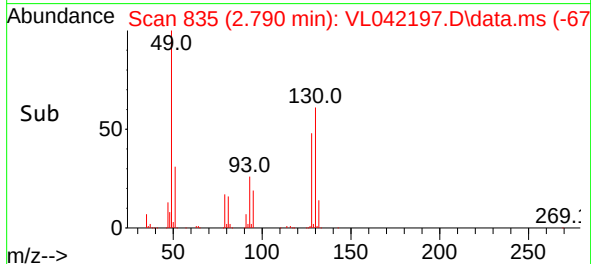
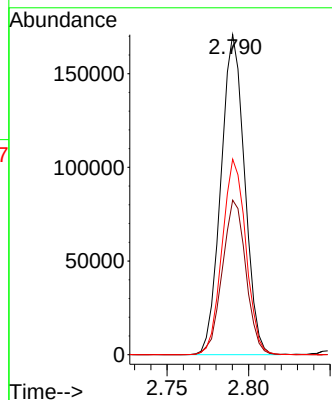
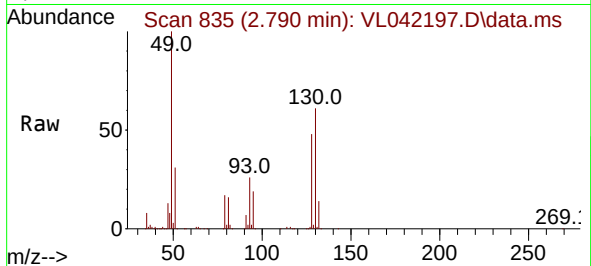




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

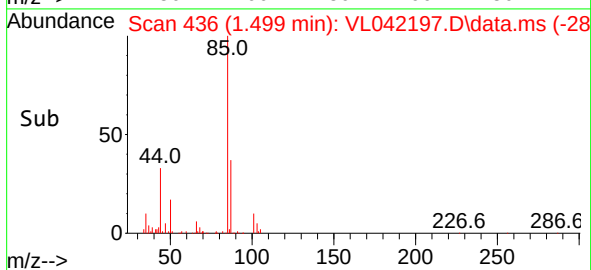
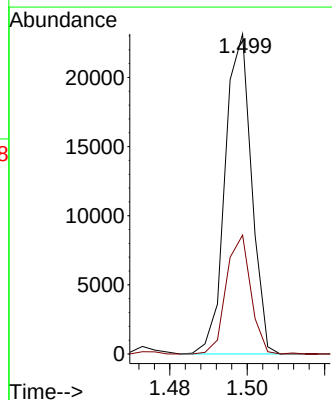
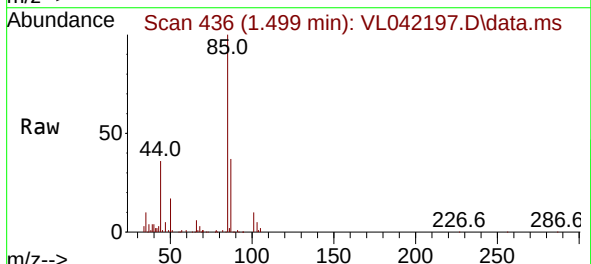
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

Tgt Ion: 49 Resp: 172645  
Ion Ratio Lower Upper  
49 100  
128 48.0 22.9 68.5  
130 61.2 28.8 86.4

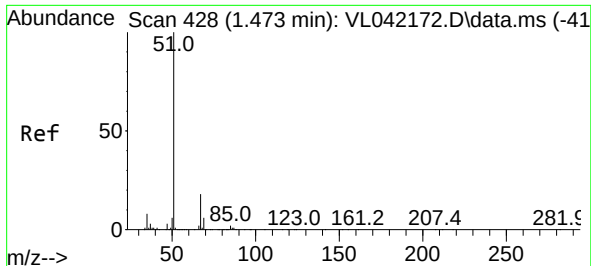


#2  
Dichlorodifluoromethane  
Concen: 0.430 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.003 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 85 Resp: 10972  
Ion Ratio Lower Upper  
85 100  
87 37.1 26.1 39.1



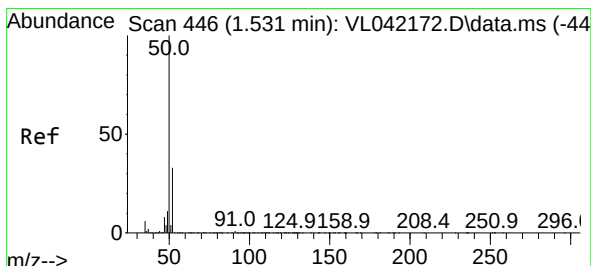
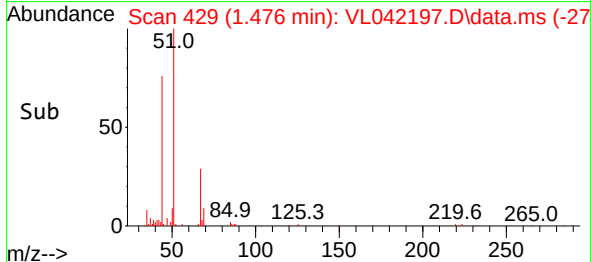
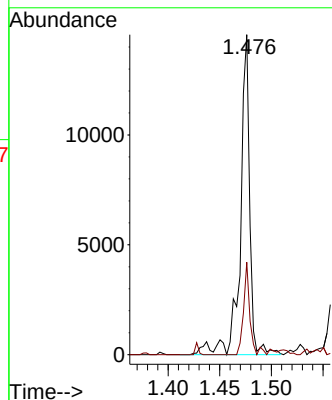
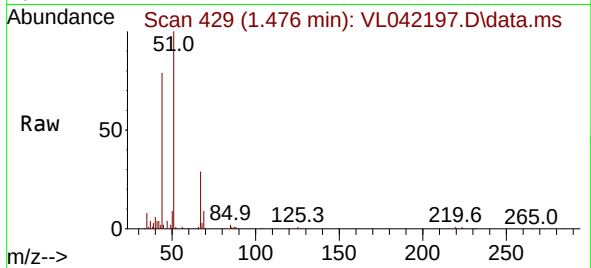




#3  
Chlorodifluoromethane  
Concen: 0.353 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

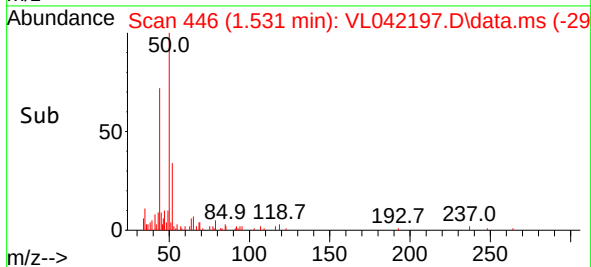
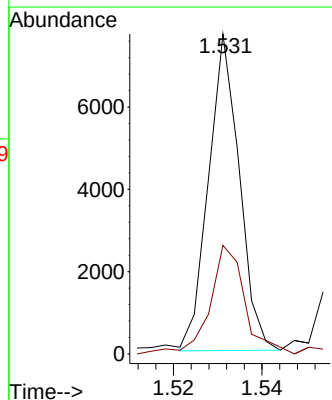
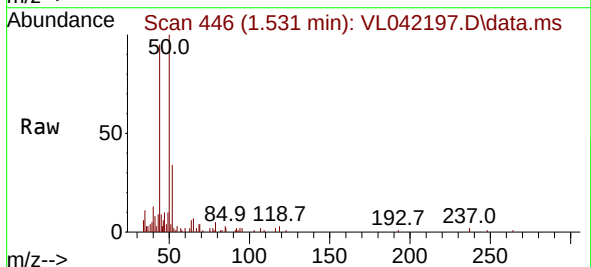
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

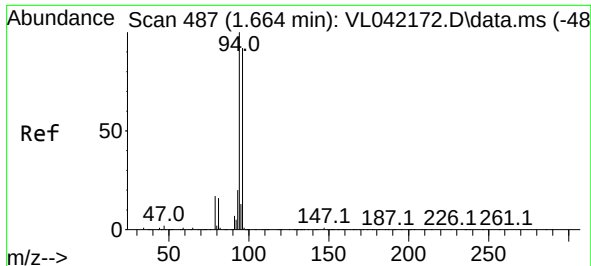
Tgt Ion: 51 Resp: 9198  
Ion Ratio Lower Upper  
51 100  
67 22.0 15.0 22.6



#4  
Chloromethane  
Concen: 0.357 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 50 Resp: 3716  
Ion Ratio Lower Upper  
50 100  
52 33.2 26.1 39.1

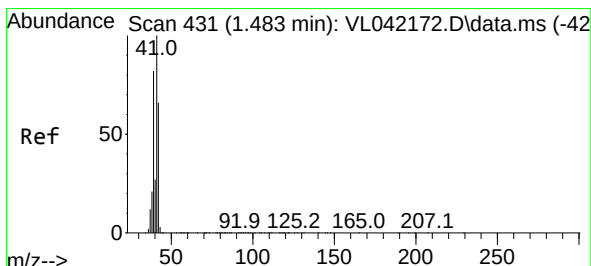
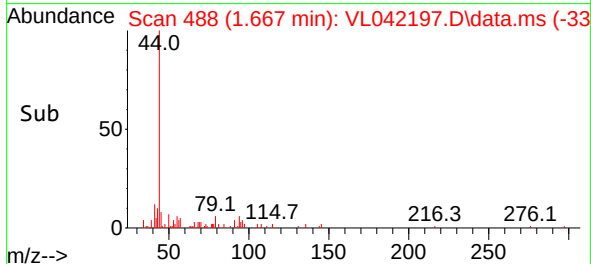
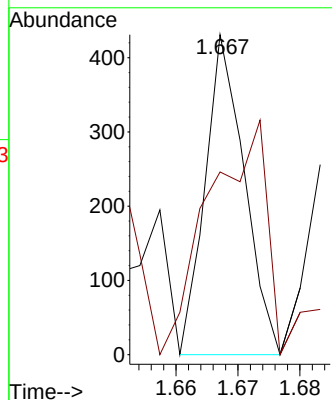
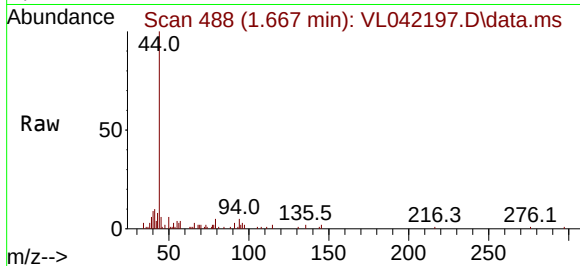




#6  
Bromomethane  
Concen: 0.040 ppbv  
RT: 1.667 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

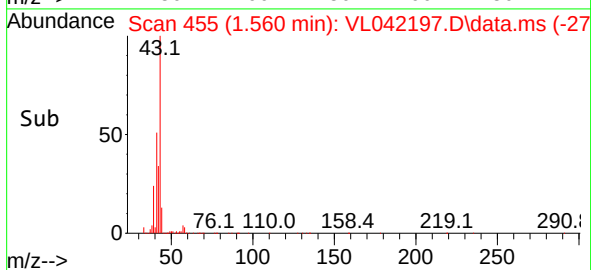
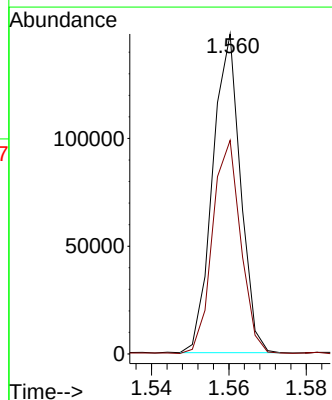
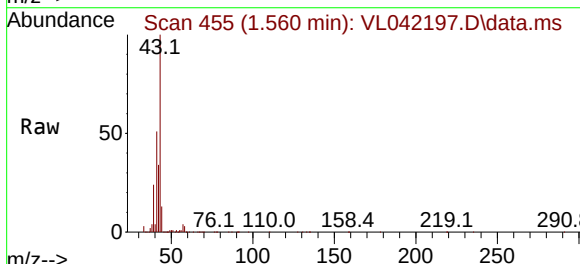
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-3-3262025

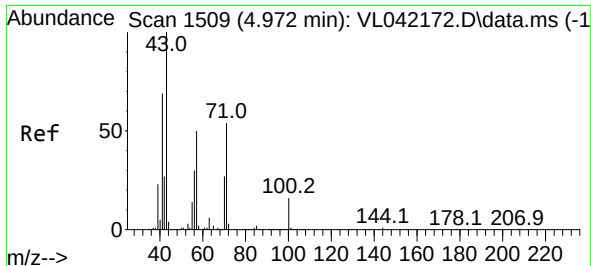
Tgt Ion: 94 Resp: 189  
Ion Ratio Lower Upper  
94 100  
96 57.1 73.1 109.7#



#9  
Propene  
Concen: 6.188 ppbv  
RT: 1.560 min Scan# 455  
Delta R.T. 0.077 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 41 Resp: 73858  
Ion Ratio Lower Upper  
41 100  
42 68.0 55.4 83.2

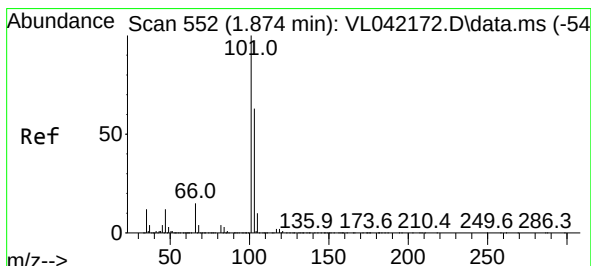
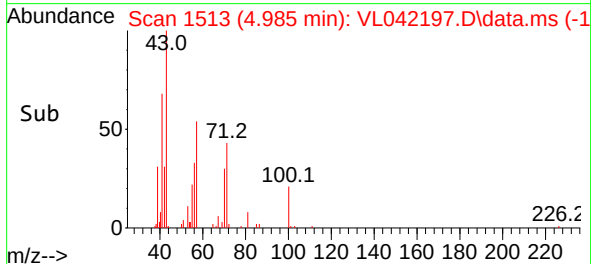
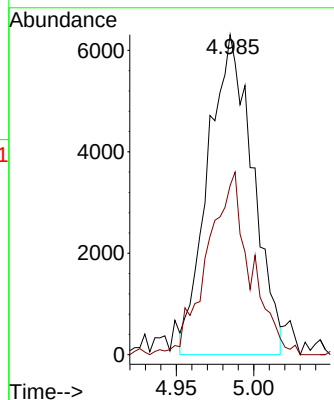
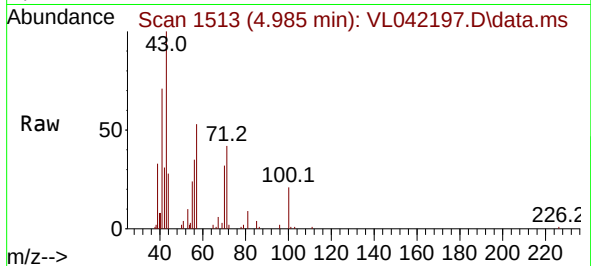




#10  
Heptane  
Concen: 0.400 ppbv  
RT: 4.985 min Scan# 11  
Delta R.T. 0.013 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

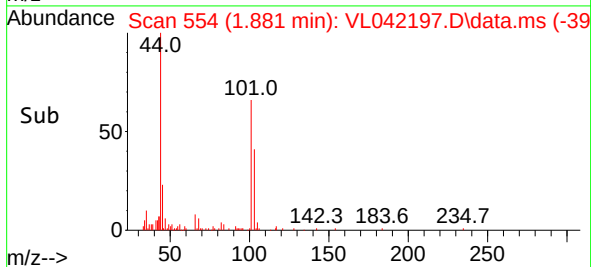
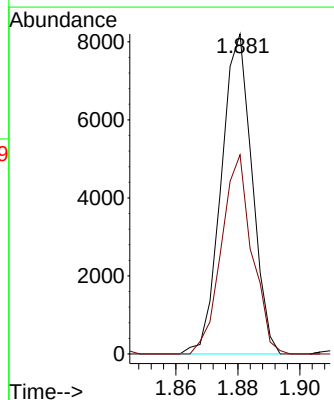
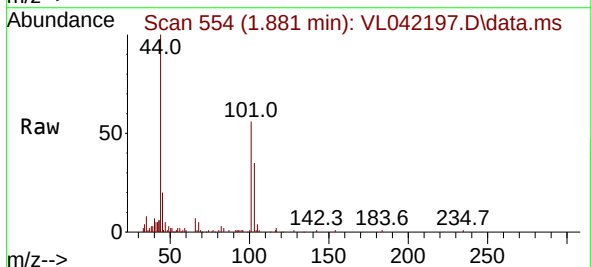
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

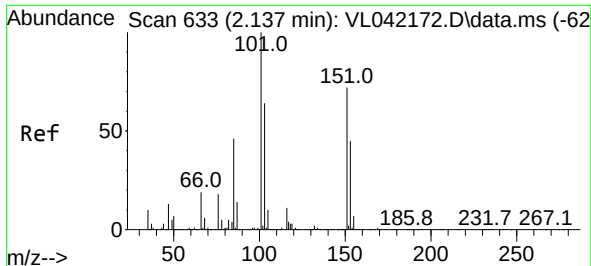
Tgt Ion: 43 Resp: 12702  
Ion Ratio Lower Upper  
43 100  
57 55.1 39.4 59.2



#11  
Trichlorofluoromethane  
Concen: 0.229 ppbv  
RT: 1.881 min Scan# 554  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 101 Resp: 5673  
Ion Ratio Lower Upper  
101 100  
103 62.2 50.2 75.2

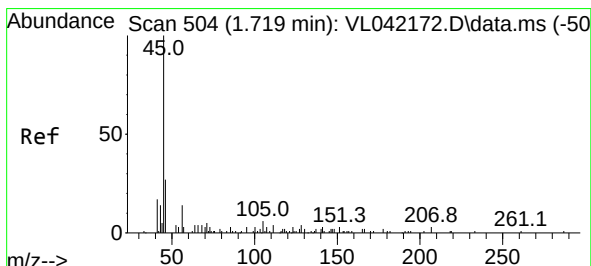
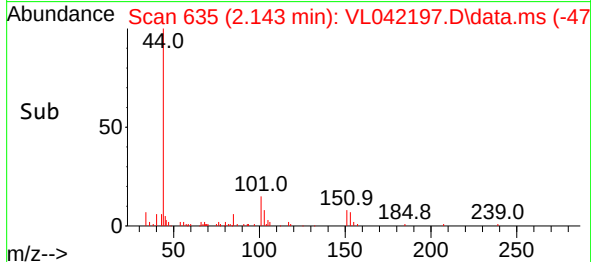
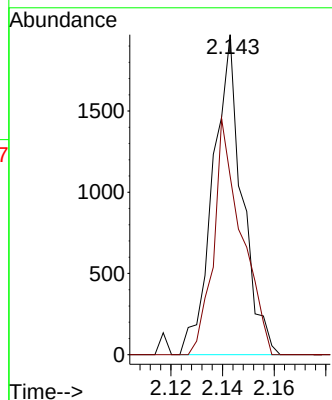
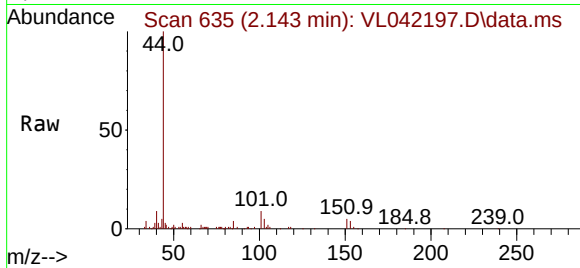




#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.076 ppbv  
RT: 2.143 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

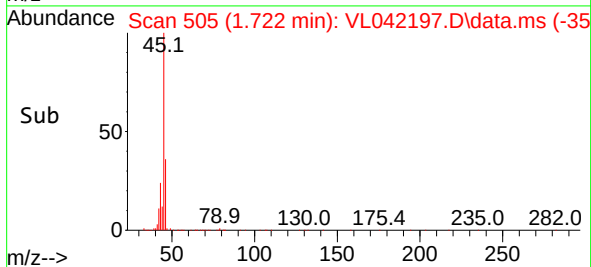
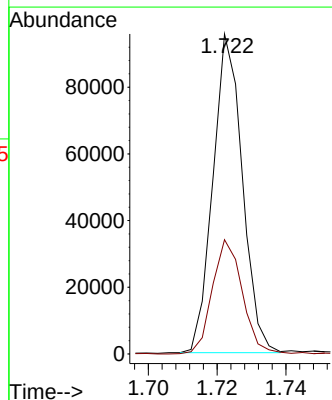
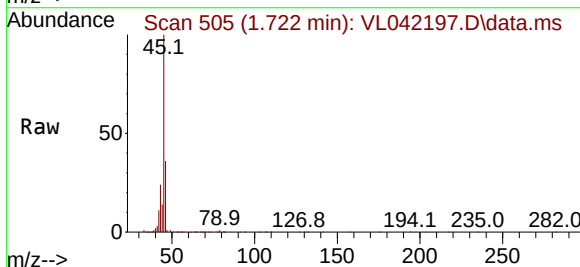
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-3-3262025

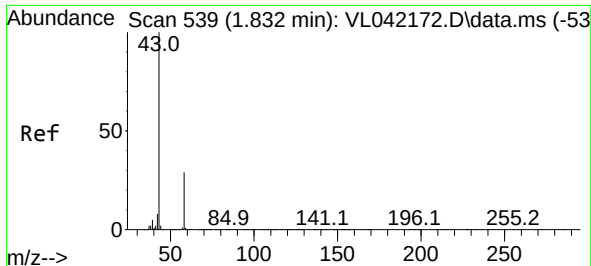
Tgt Ion:101 Resp: 1548  
Ion Ratio Lower Upper  
101 100  
151 70.3 57.1 85.7



#13  
Ethanol  
Concen: 50.352 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.003 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 45 Resp: 56814  
Ion Ratio Lower Upper  
45 100  
46 37.5 20.2 80.8

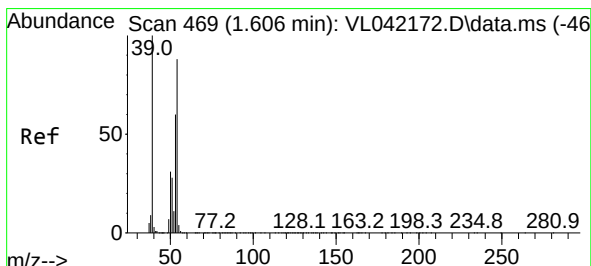
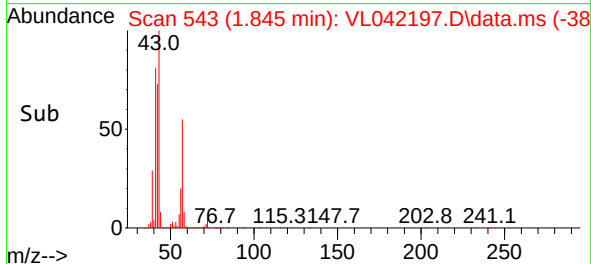
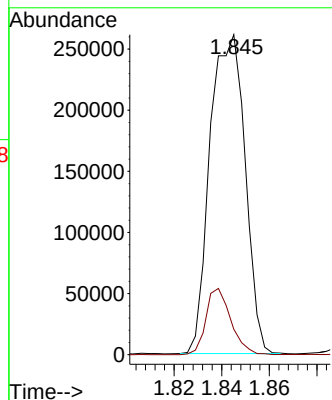
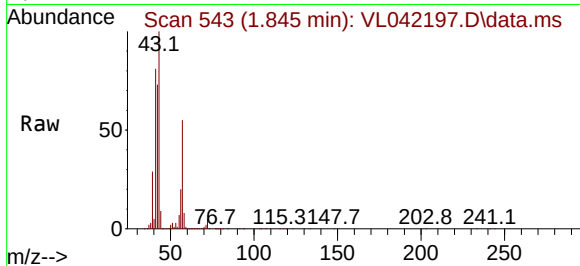




#15  
Acetone  
Concen: 11.053 ppbv  
RT: 1.845 min Scan# 54  
Delta R.T. 0.013 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

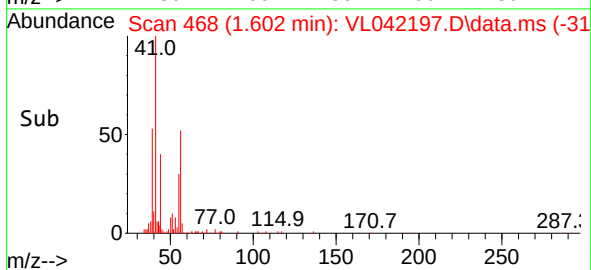
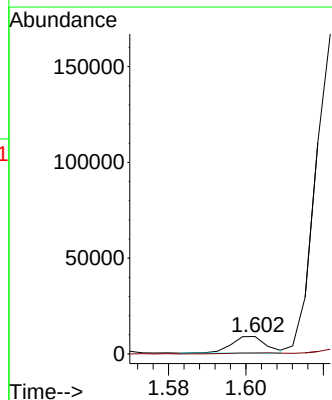
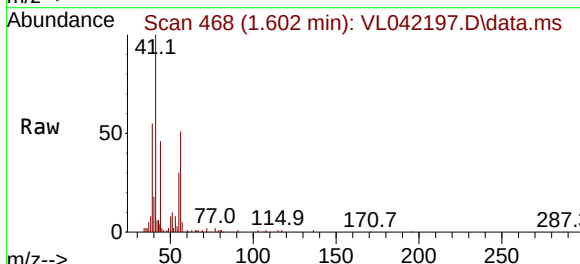
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

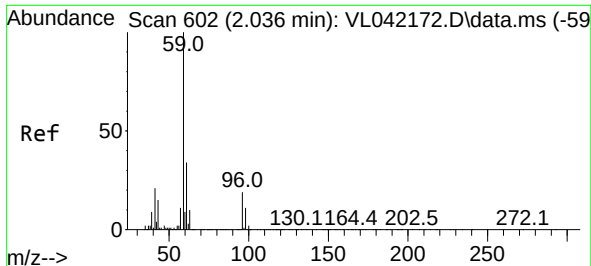
Tgt Ion: 43 Resp: 266878  
Ion Ratio Lower Upper  
43 100  
58 15.1 23.2 34.8#



#16  
1,3-Butadiene  
Concen: 0.458 ppbv  
RT: 1.602 min Scan# 468  
Delta R.T. -0.003 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 39 Resp: 5398  
Ion Ratio Lower Upper  
39 100  
54 0.0 60.7 91.1#

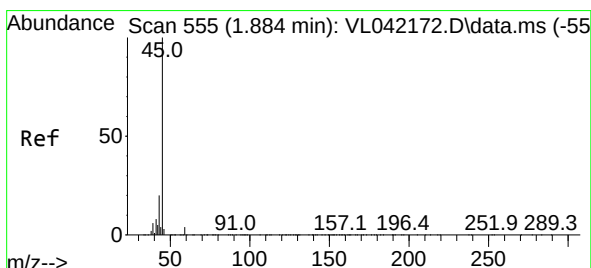
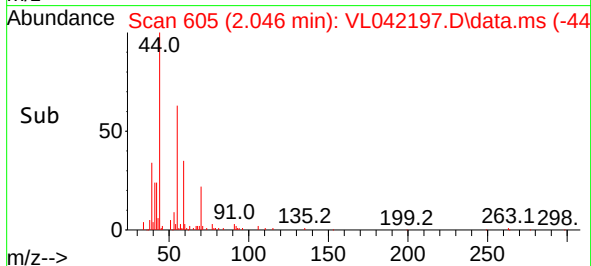
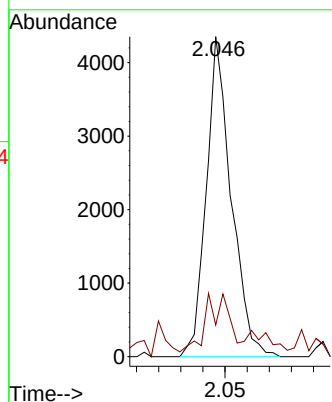
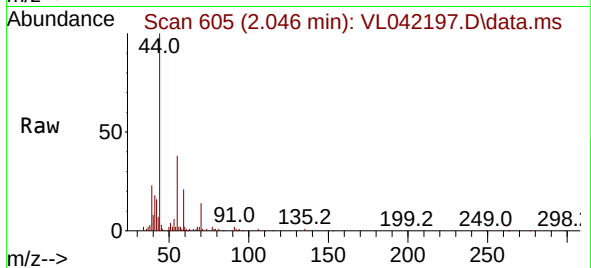




#17  
tert-Butyl alcohol  
Concen: 0.113 ppbv  
RT: 2.046 min Scan# 602  
Delta R.T. 0.010 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

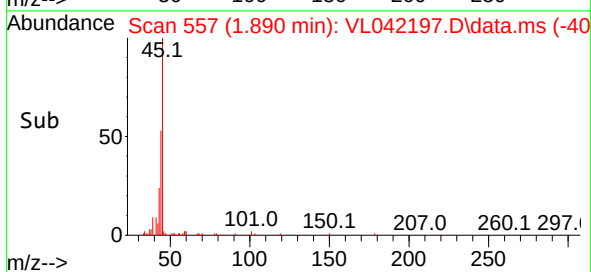
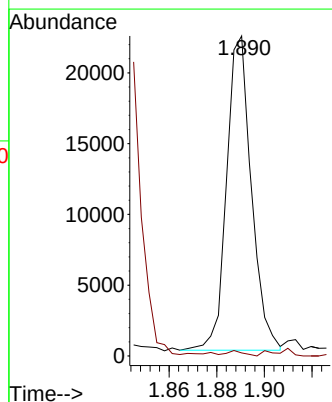
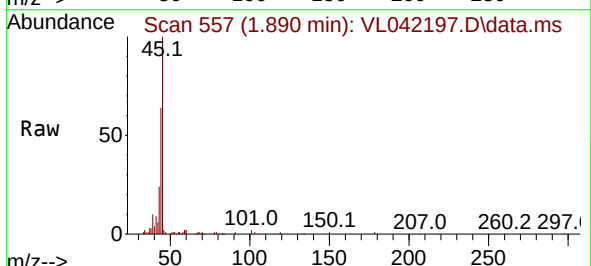
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-3-3262025

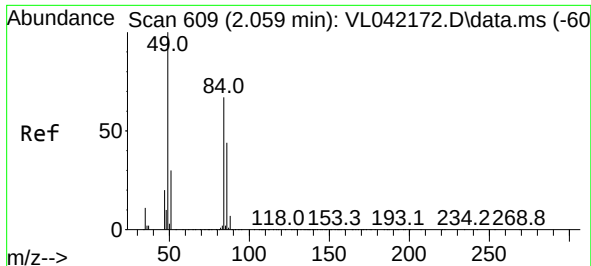
Tgt Ion: 59 Resp: 3401  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.9 13.3#



#19  
Isopropyl Alcohol  
Concen: 1.177 ppbv  
RT: 1.890 min Scan# 557  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 45 Resp: 16035  
Ion Ratio Lower Upper  
45 100  
58 247.8 36.9 55.3#

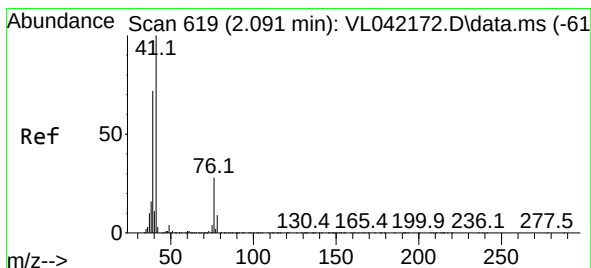
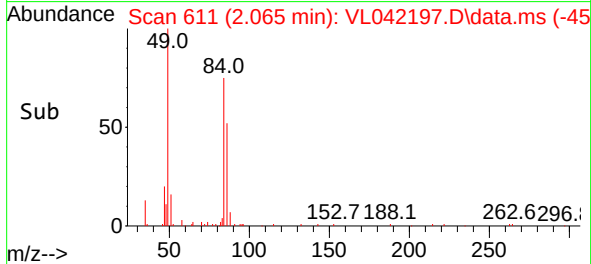
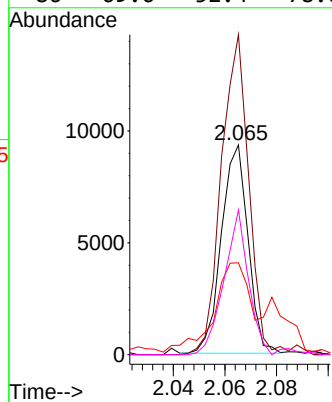
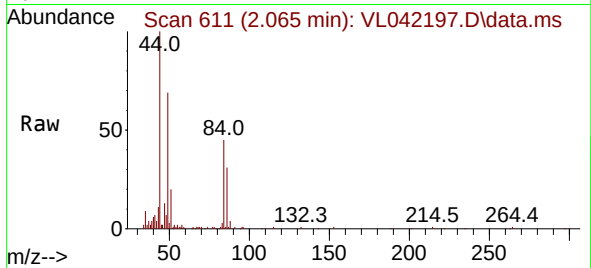




#20  
Methylene Chloride  
Concen: 0.741 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

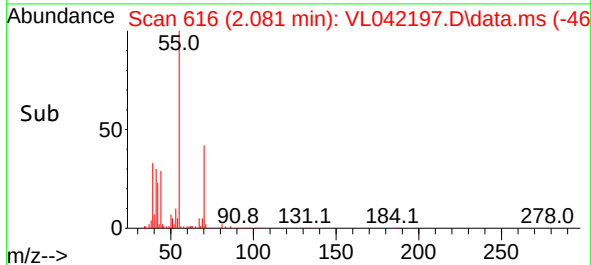
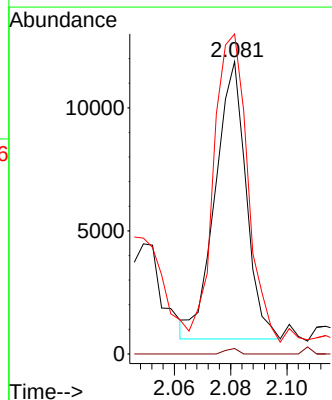
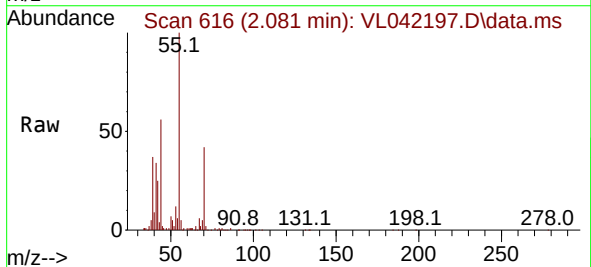
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-3-3262025

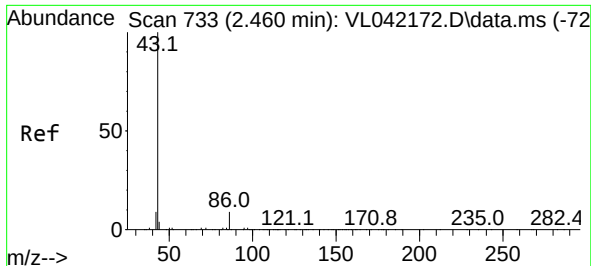
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 6666  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 153.7 | 120.2 | 180.4 |
| 51       | 37.5  | 37.4  | 56.0  |
| 86       | 69.6  | 52.4  | 78.6  |



#21  
Allyl Chloride  
Concen: 0.504 ppbv  
RT: 2.081 min Scan# 616  
Delta R.T. -0.010 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 8576  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 0.8   | 24.1  | 36.1# |
| 39       | 177.4 | 61.1  | 91.7# |

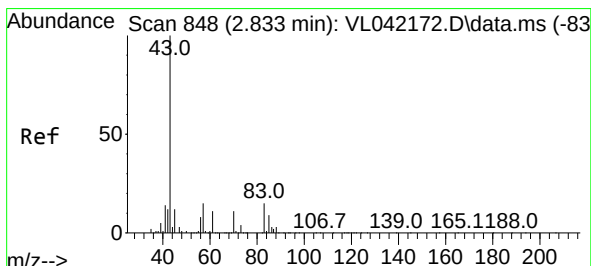
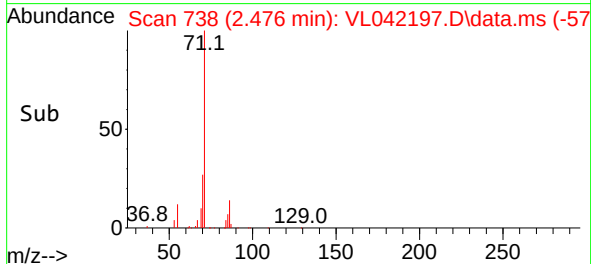
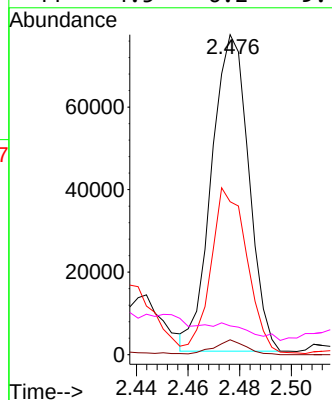
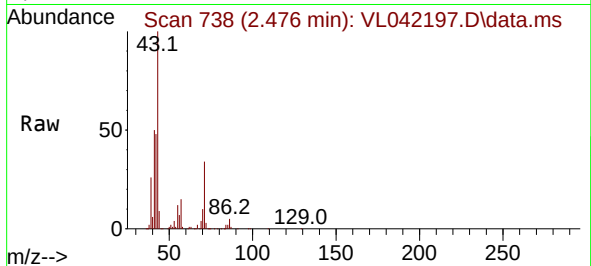




#23  
 Vinyl Acetate  
 Concen: 7.339 ppbv  
 RT: 2.476 min Scan# 71  
 Delta R.T. 0.016 min  
 Lab File: VL042197.D  
 Acq: 28 Mar 2025 01:20

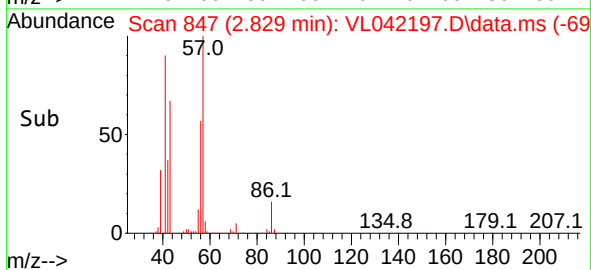
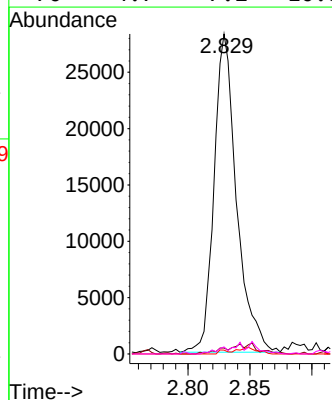
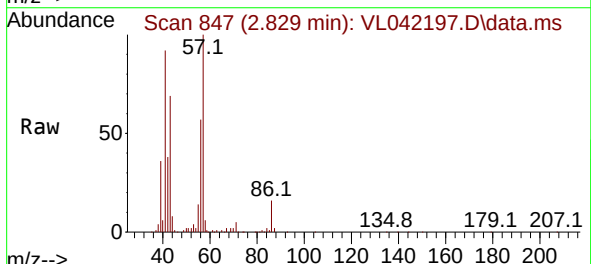
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 SSSG-B16-3-3262025

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 76691 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 4.7   | 5.5   | 8.3#  |
| 42       | 47.5  | 8.6   | 13.0# |
| 44       | 4.5   | 6.2   | 9.4#  |

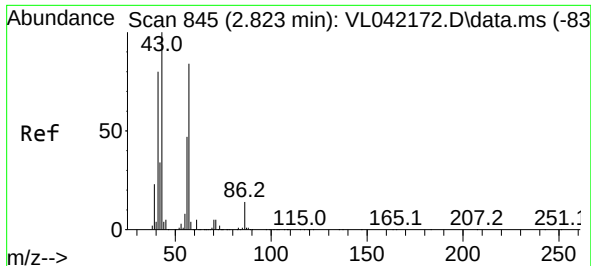


#25  
 Ethyl Acetate  
 Concen: 0.571 ppbv  
 RT: 2.829 min Scan# 847  
 Delta R.T. -0.003 min  
 Lab File: VL042197.D  
 Acq: 28 Mar 2025 01:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 35772 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 4.5   | 8.2   | 12.2# |
| 61       | 2.3   | 7.3   | 10.9# |
| 70       | 4.7   | 7.2   | 10.8# |



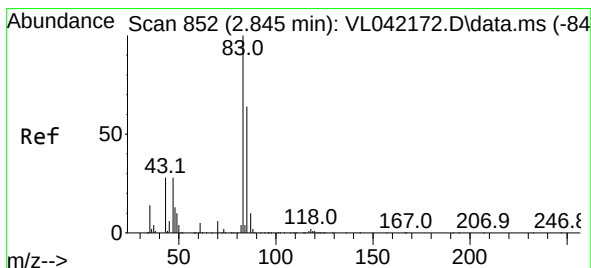
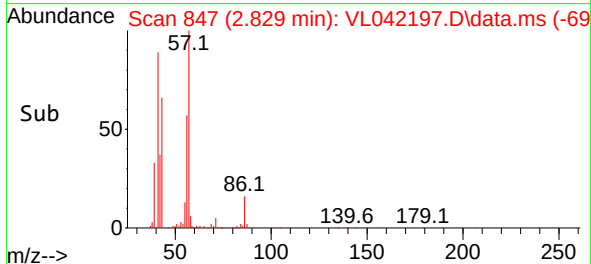
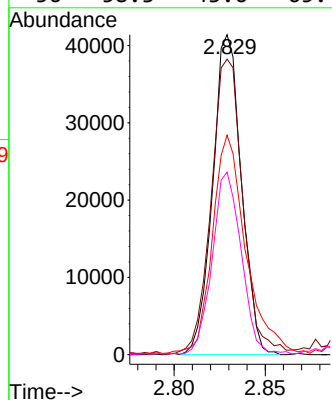
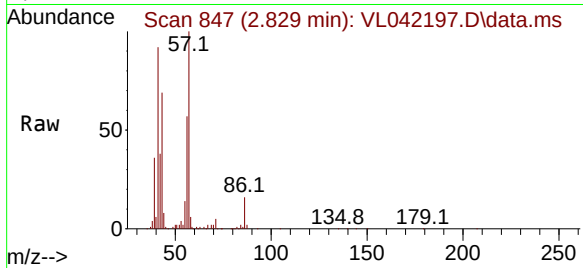




#26  
Hexane  
Concen: 1.876 ppbv  
RT: 2.829 min Scan# 845  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

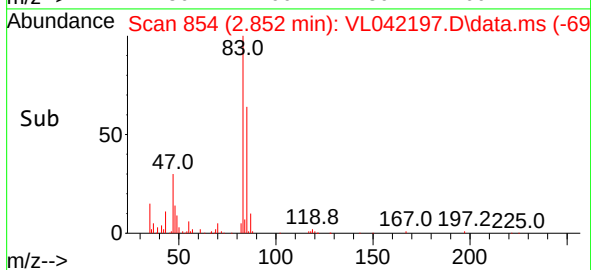
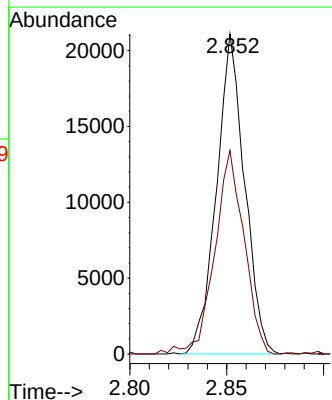
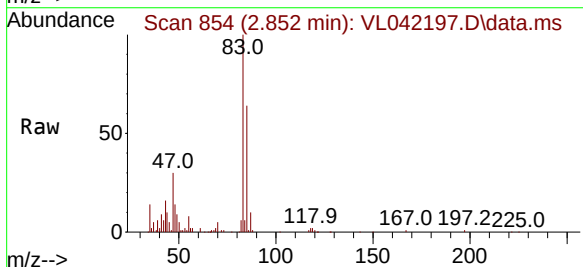
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-3-3262025

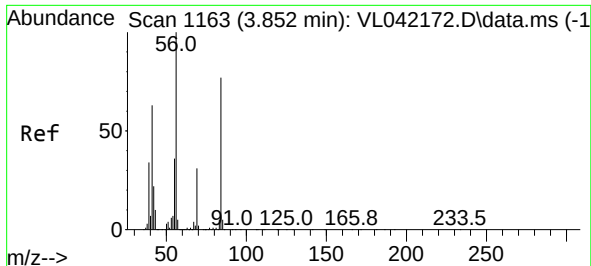
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 45421  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 102.0 | 76.6  | 114.8  |
| 43       | 79.1  | 207.8 | 311.8# |
| 56       | 58.3  | 43.6  | 65.4   |



#29  
Chloroform  
Concen: 0.601 ppbv  
RT: 2.852 min Scan# 854  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 21281 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 63.6  | 51.4  | 77.2  |

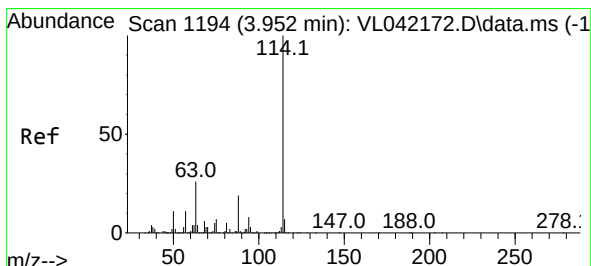
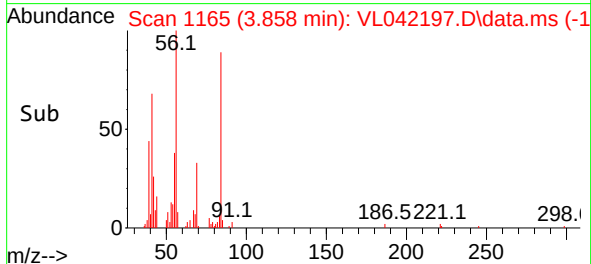
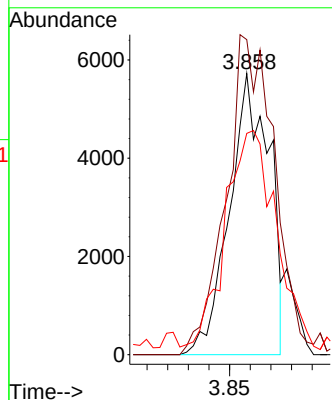
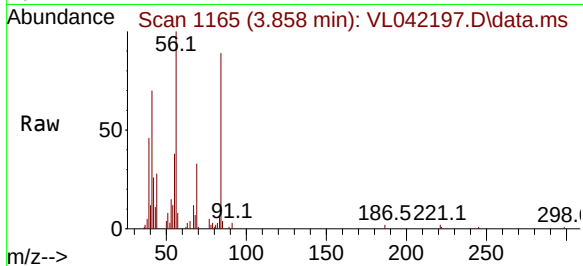




#30  
Cyclohexane  
Concen: 0.366 ppbv  
RT: 3.858 min Scan# 1165  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

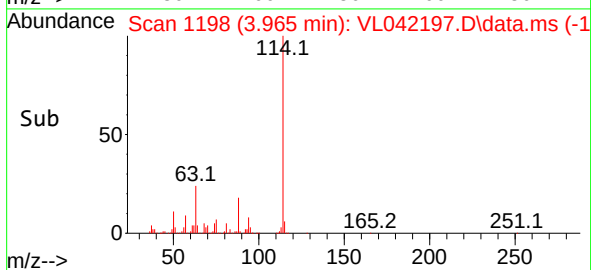
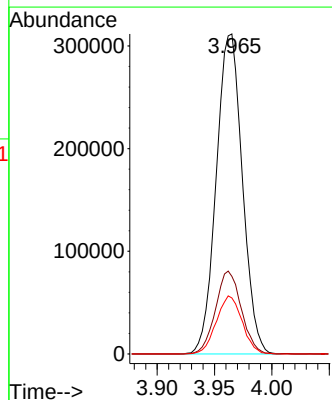
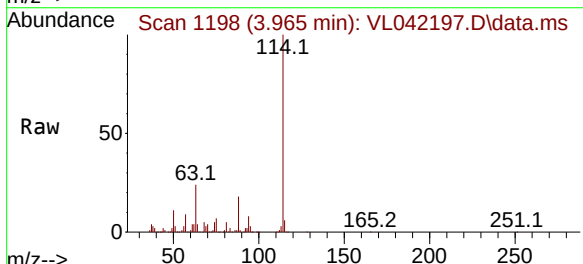
Instrument : MSVOA\_L  
ClientSampleId : SSSG-B16-3-3262025

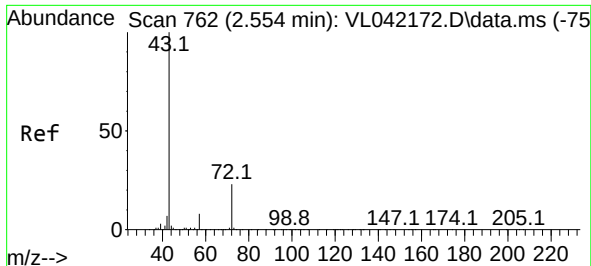
| Tgt Ion: | 84    | Resp: | 7683  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 56       | 139.1 | 102.8 | 154.2 |
| 41       | 100.9 | 66.5  | 99.7  |



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.965 min Scan# 1198  
Delta R.T. 0.013 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

| Tgt Ion: | 114   | Resp: | 493948 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 25.6  | 20.7  | 31.1   |
| 88       | 17.9  | 15.0  | 22.4   |

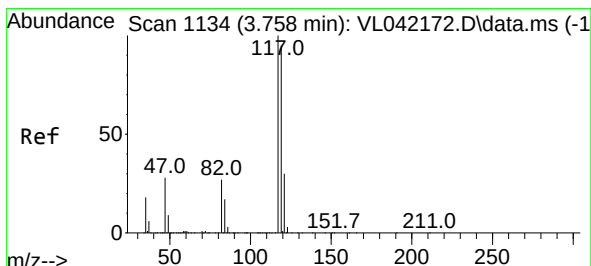
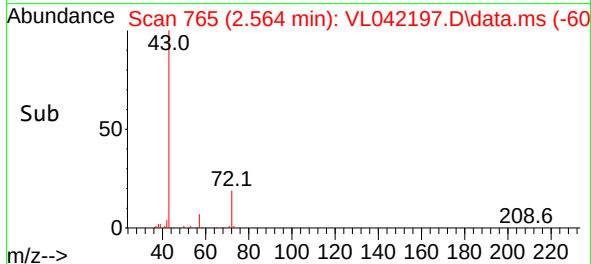
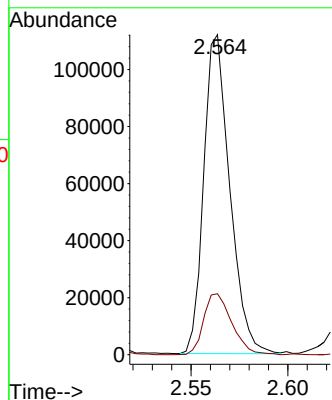
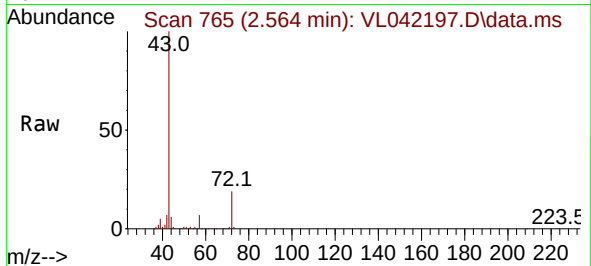




#34  
2-Butanone  
Concen: 2.922 ppbv  
RT: 2.564 min Scan# 71  
Delta R.T. 0.009 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

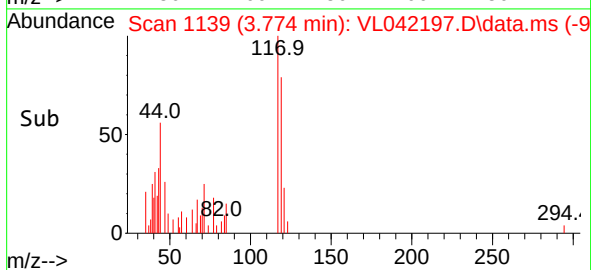
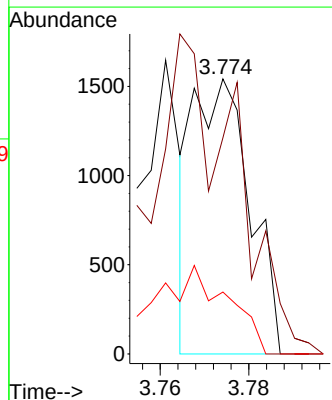
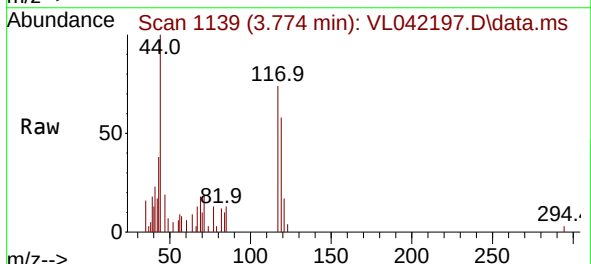
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

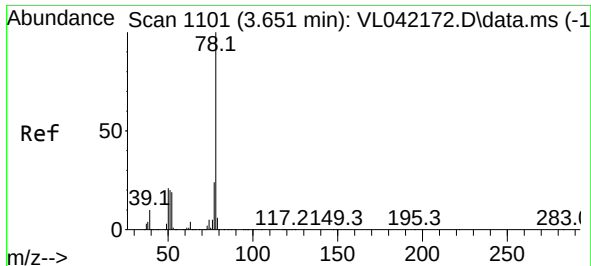
Tgt Ion: 43 Resp: 104671  
Ion Ratio Lower Upper  
43 100  
72 20.7 18.2 27.2



#35  
Carbon Tetrachloride  
Concen: 0.036 ppbv  
RT: 3.774 min Scan# 1139  
Delta R.T. 0.016 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 117 Resp: 1373  
Ion Ratio Lower Upper  
117 100  
119 60.2 76.2 114.2#  
121 22.5 24.2 36.4#

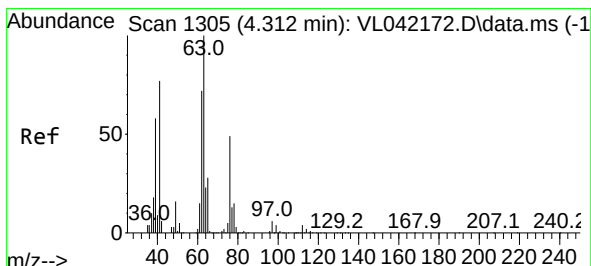
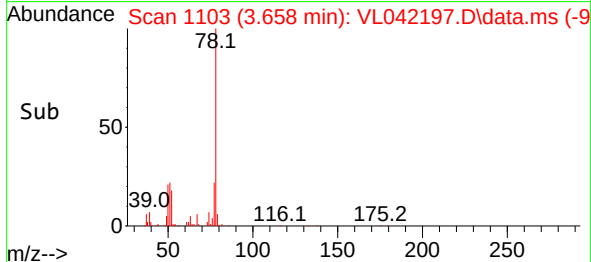
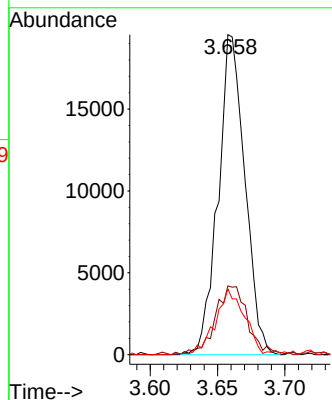
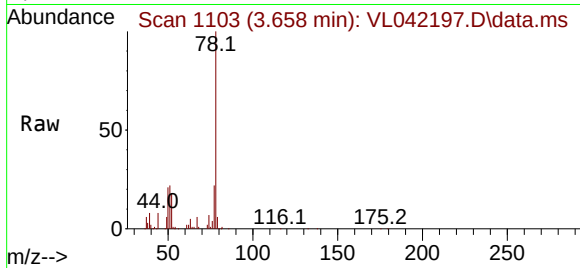




#36  
Benzene  
Concen: 0.550 ppbv  
RT: 3.658 min Scan# 1103  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

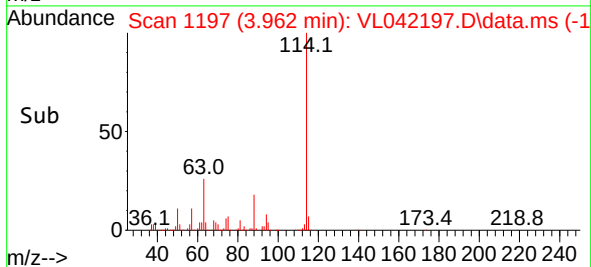
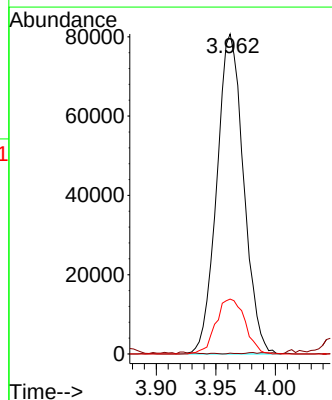
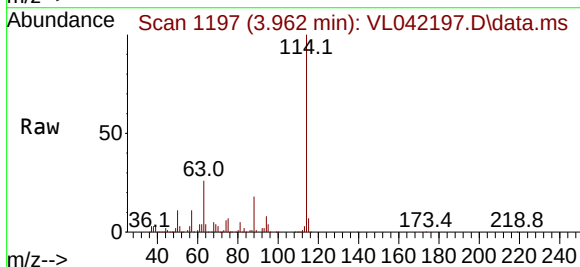
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-3-3262025

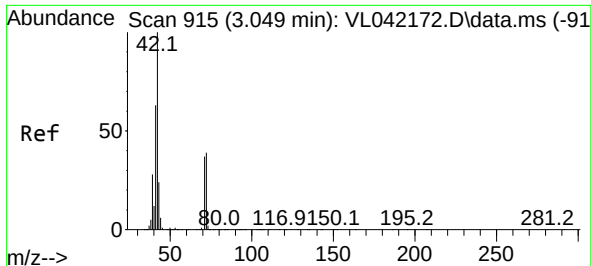
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 21.2  | 19.1  | 28.7  |
| 50      | 20.3  | 16.6  | 24.8  |



#39  
1,2-Dichloropropane  
Concen: 7.079 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. -0.350 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 0.2   | 61.7  | 92.5# |
| 62      | 17.2  | 57.6  | 86.4# |

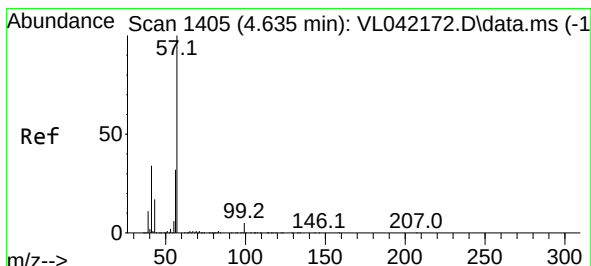
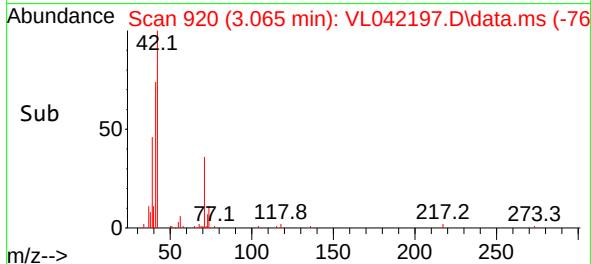
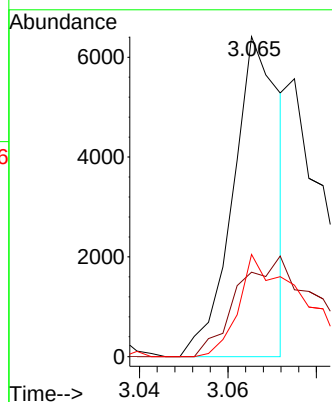
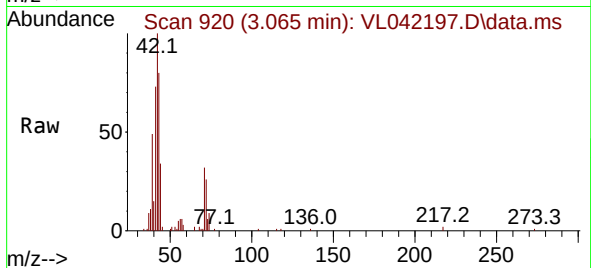




#41  
Tetrahydrofuran  
Concen: 0.228 ppbv  
RT: 3.065 min Scan# 915  
Delta R.T. 0.016 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

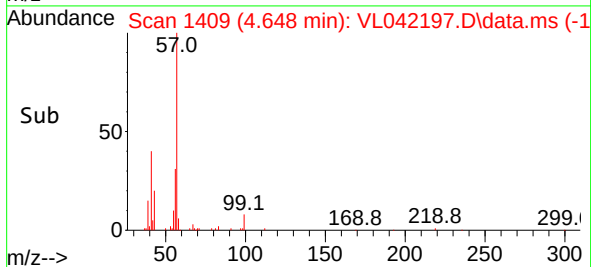
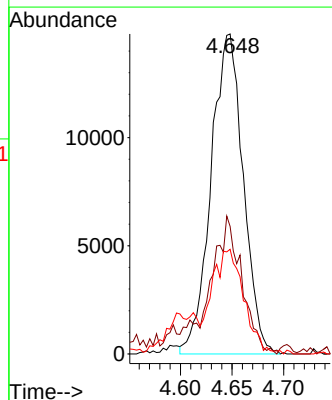
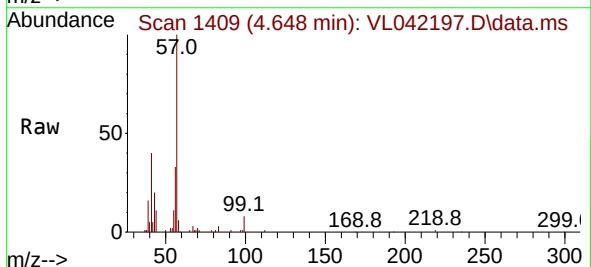
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-3-3262025

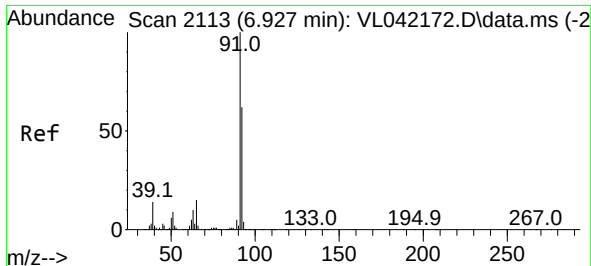
Tgt Ion: 42 Resp: 4698  
Ion Ratio Lower Upper  
42 100  
72 0.0 31.4 47.0#  
71 47.1 30.2 45.4#



#44  
2,2,4-Trimethylpentane  
Concen: 0.388 ppbv  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.013 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 57 Resp: 32093  
Ion Ratio Lower Upper  
57 100  
41 47.6 26.8 40.2#  
56 44.7 25.6 38.4#

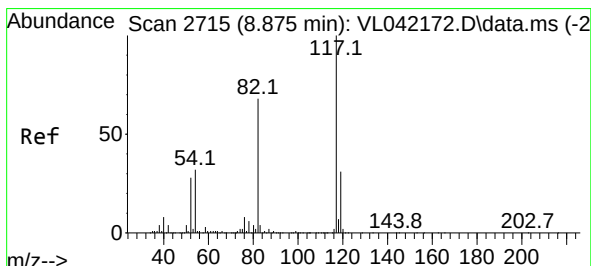
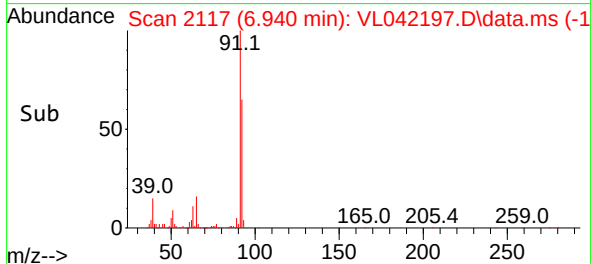
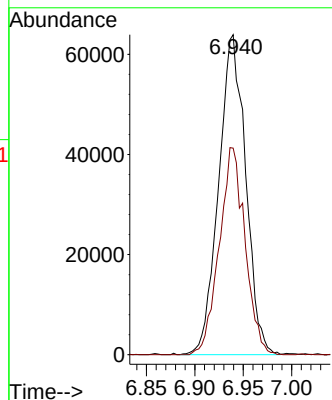
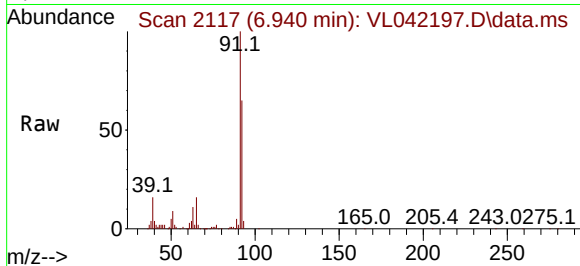




#53  
Toluene  
Concen: 2.136 ppbv  
RT: 6.940 min Scan# 2117  
Delta R.T. 0.013 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

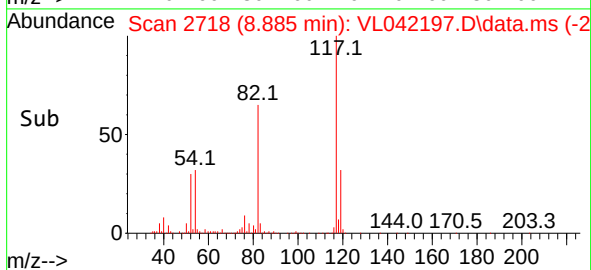
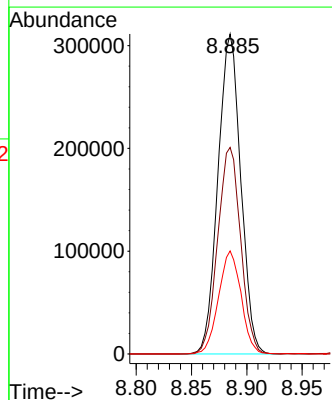
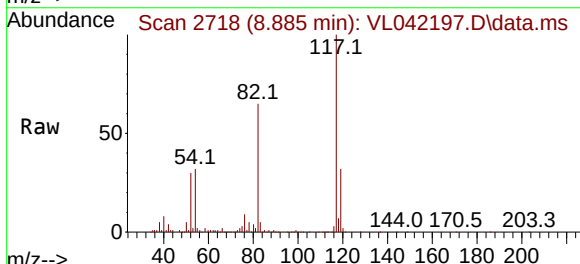
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

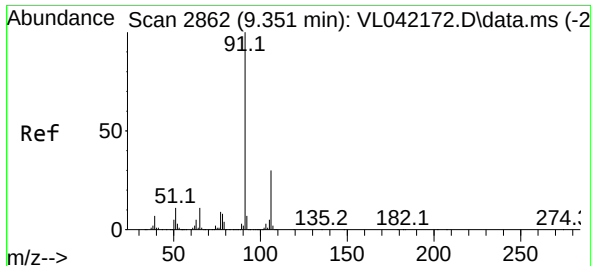
Tgt Ion: 91 Resp: 124001  
Ion Ratio Lower Upper  
91 100  
92 61.8 48.4 72.6



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2718  
Delta R.T. 0.010 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 117 Resp: 445312  
Ion Ratio Lower Upper  
117 100  
82 65.1 55.8 83.6  
119 32.0 25.5 38.3





#58

Ethyl Benzene

Concen: 0.265 ppbv

RT: 9.361 min Scan# 21

Delta R.T. 0.009 min

Lab File: VL042197.D

Acq: 28 Mar 2025 01:20

Instrument :

MSVOA\_1

ClientSampleId :

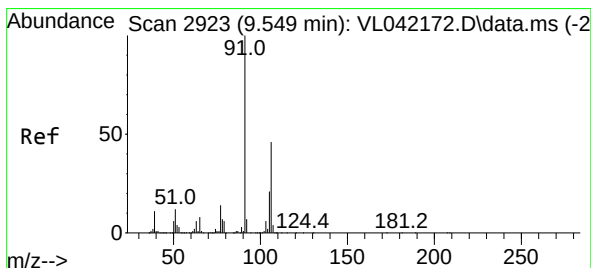
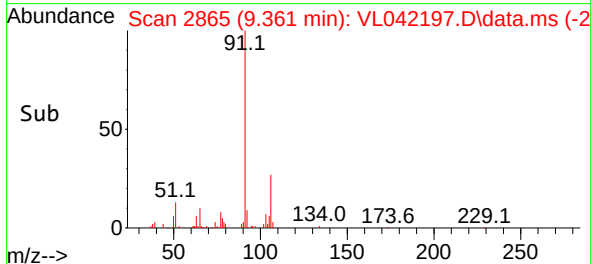
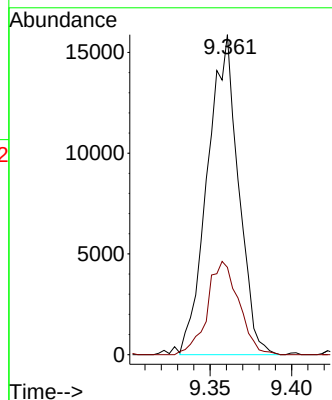
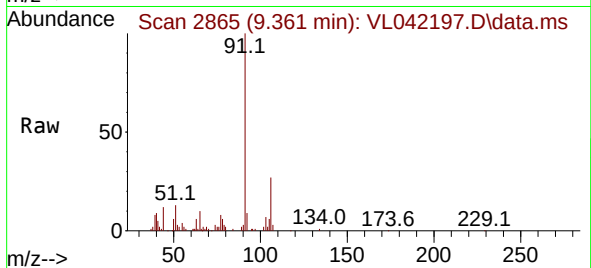
SSSG-B16-3-3262025

Tgt Ion: 91 Resp: 20976

Ion Ratio Lower Upper

91 100

106 27.3 24.2 36.2



#59

m/p-Xylene

Concen: 1.026 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.016 min

Lab File: VL042197.D

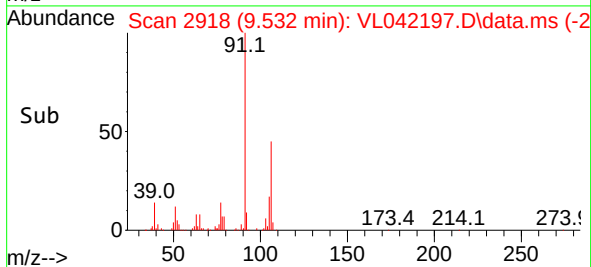
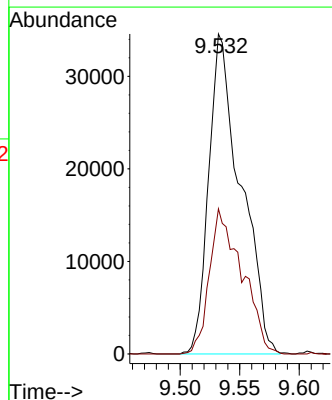
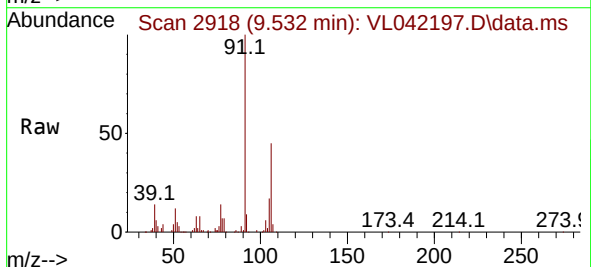
Acq: 28 Mar 2025 01:20

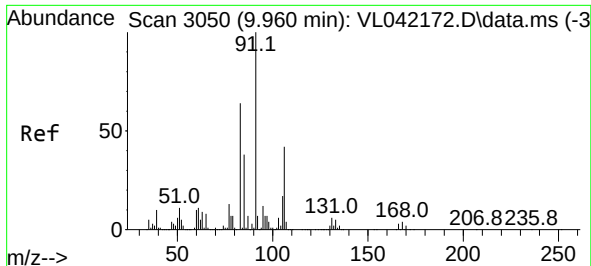
Tgt Ion: 91 Resp: 64820

Ion Ratio Lower Upper

91 100

106 46.1 36.4 54.6

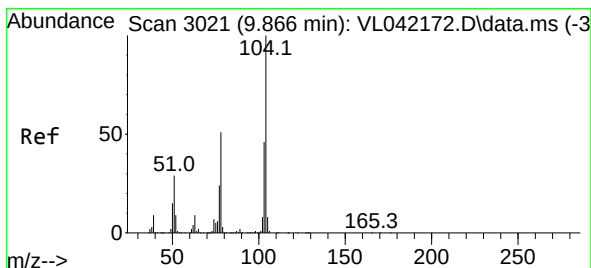
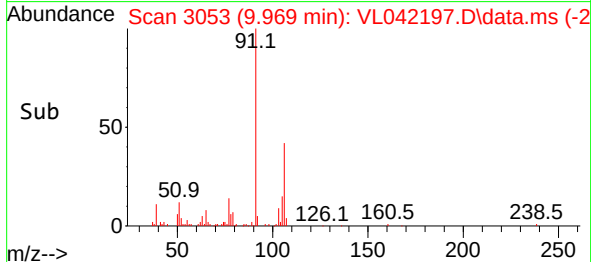
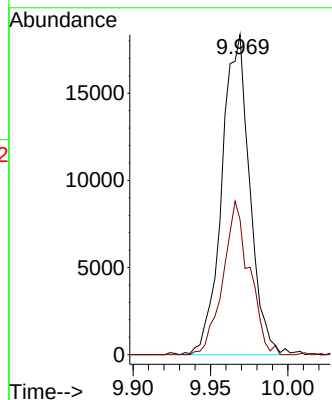
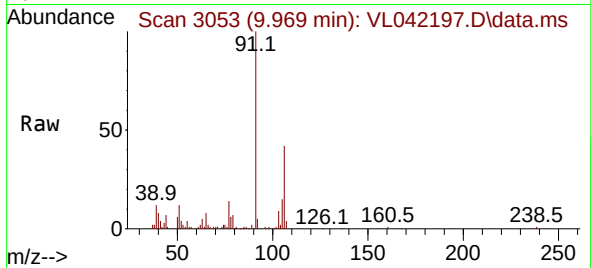




#60  
o-Xylene  
Concen: 0.363 ppbv  
RT: 9.969 min Scan# 3053  
Delta R.T. 0.009 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

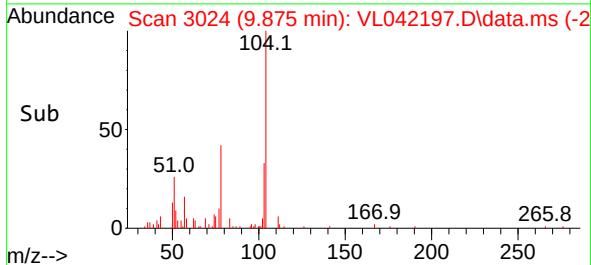
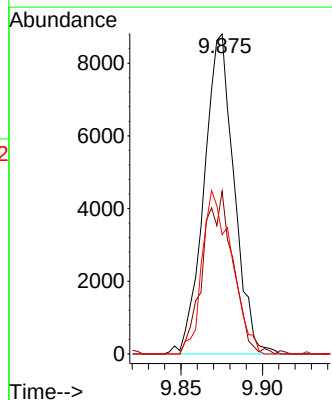
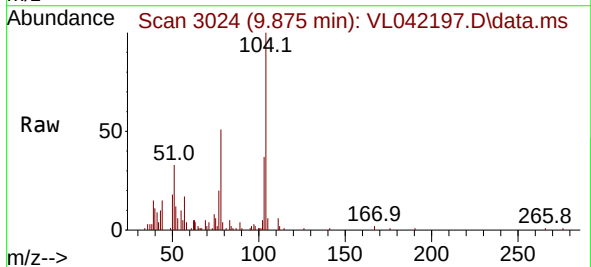
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-3-3262025

Tgt Ion: 91 Resp: 22977  
Ion Ratio Lower Upper  
91 100  
106 45.7 20.8 62.5

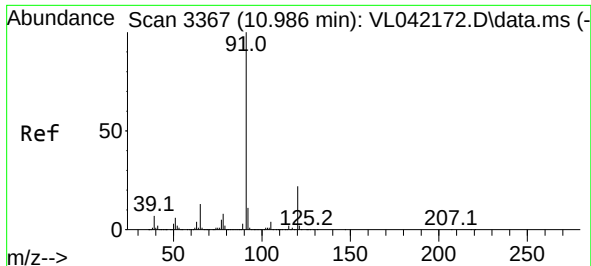


#61  
Styrene  
Concen: 0.359 ppbv  
RT: 9.875 min Scan# 3024  
Delta R.T. 0.009 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 104 Resp: 11230  
Ion Ratio Lower Upper  
104 100  
78 51.4 41.8 62.6  
103 50.7 37.0 55.4



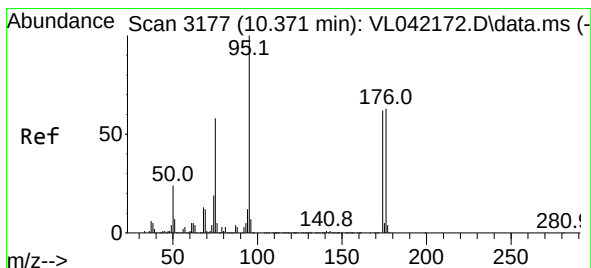
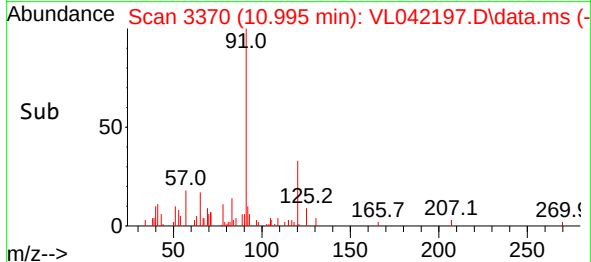
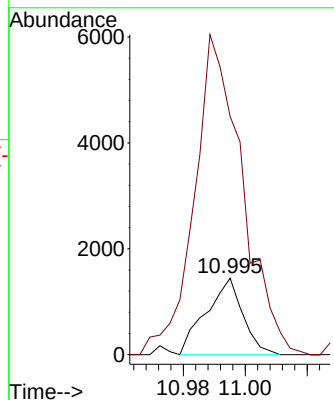
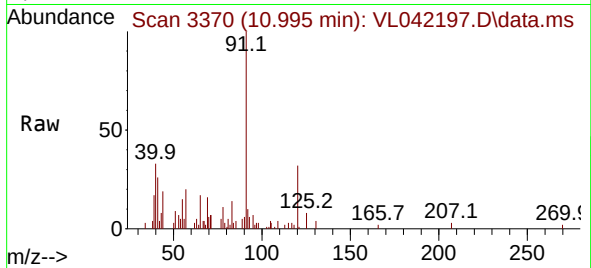




#64  
n-propylbenzene  
Concen: 0.049 ppbv  
RT: 10.995 min Scan# 31  
Delta R.T. 0.010 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

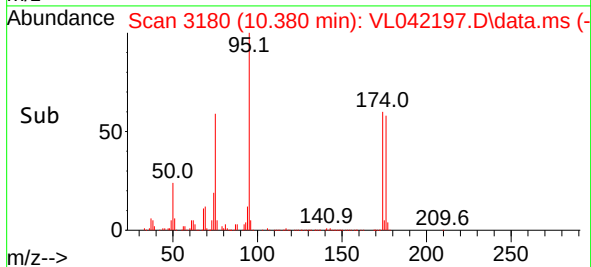
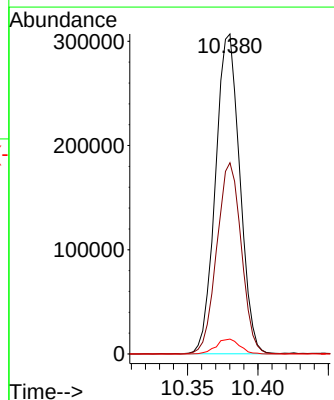
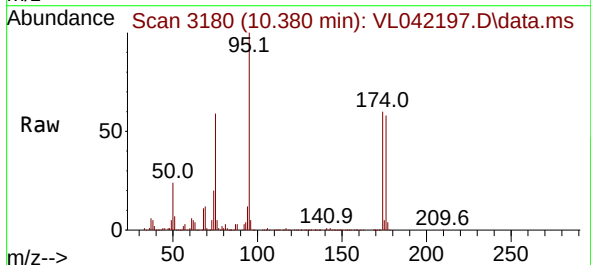
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-3-3262025

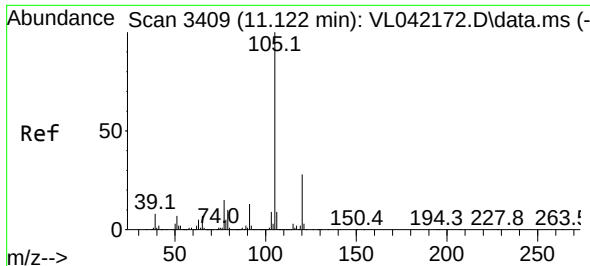
Tgt Ion:120 Resp: 1196  
Ion Ratio Lower Upper  
120 100  
91 560.8 376.9 565.3



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.088 ppbv  
RT: 10.380 min Scan# 3180  
Delta R.T. 0.009 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

Tgt Ion: 95 Resp: 368899  
Ion Ratio Lower Upper  
95 100  
174 60.5 50.6 76.0  
175 4.5 3.8 5.6

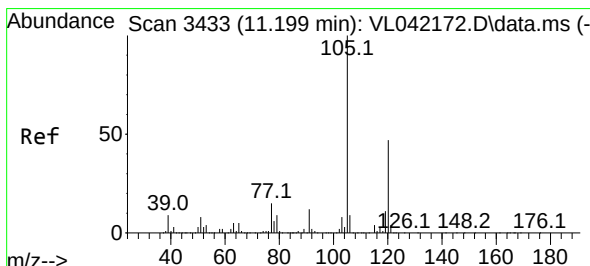
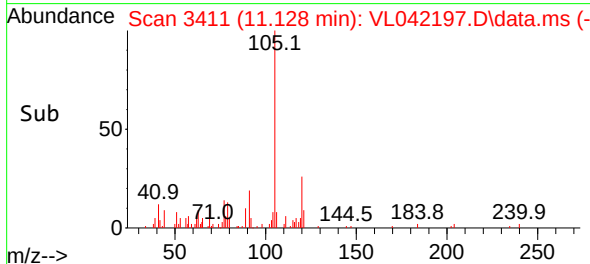
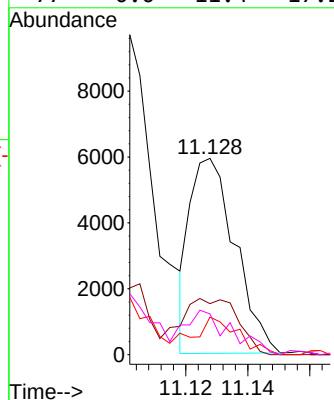
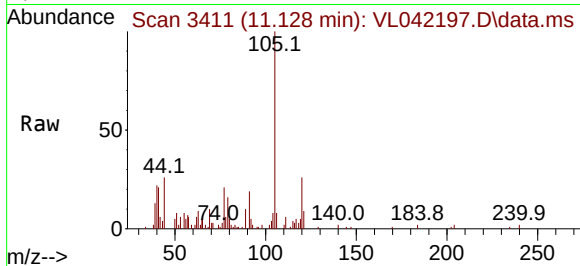




#72  
4-Ethyltoluene  
Concen: 0.076 ppbv  
RT: 11.128 min Scan# 3409  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

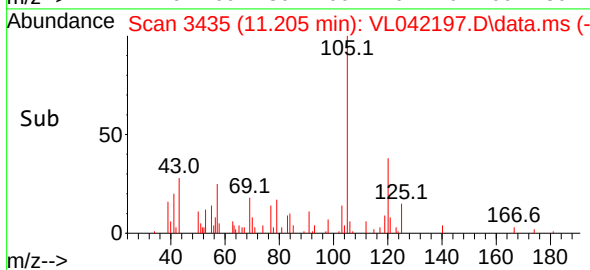
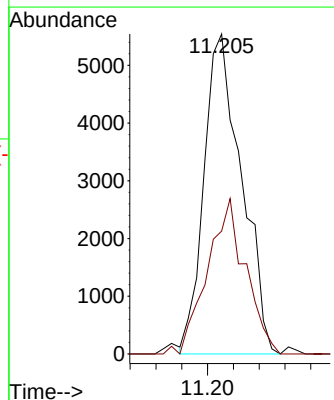
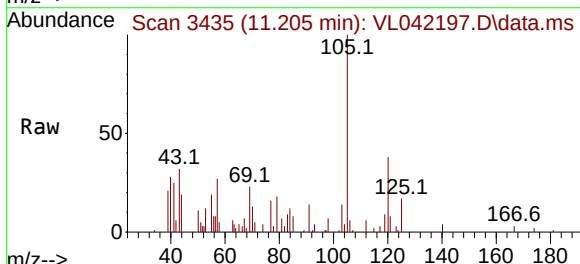
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-3-3262025

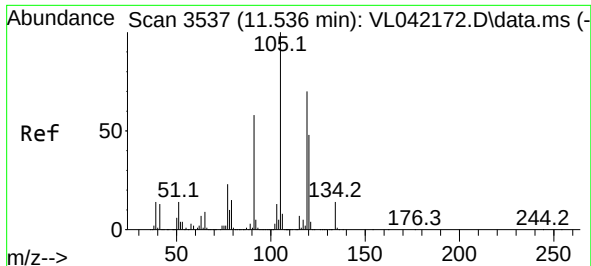
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 5978  |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 0.0   | 23.4  | 35.0# |
| 91        | 0.0   | 10.3  | 15.5# |
| 77        | 0.0   | 11.4  | 17.2# |



#73  
1,3,5-Trimethylbenzene  
Concen: 0.081 ppbv  
RT: 11.205 min Scan# 3435  
Delta R.T. 0.006 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

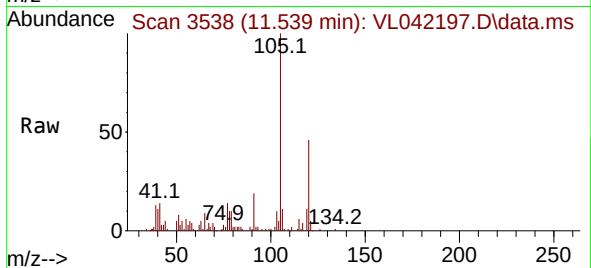
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 5610 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 46.2  | 37.4  | 56.0 |



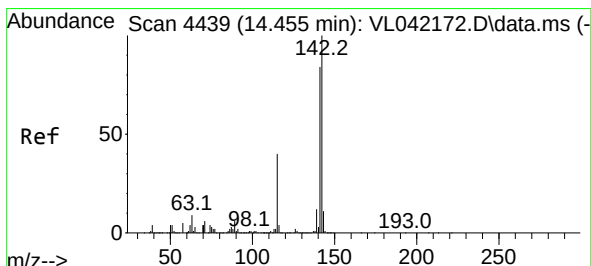
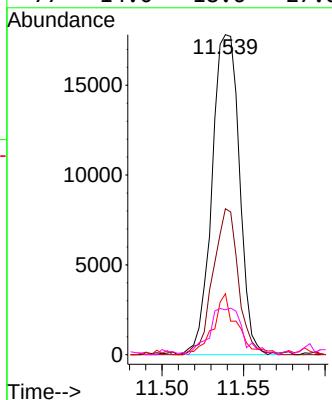
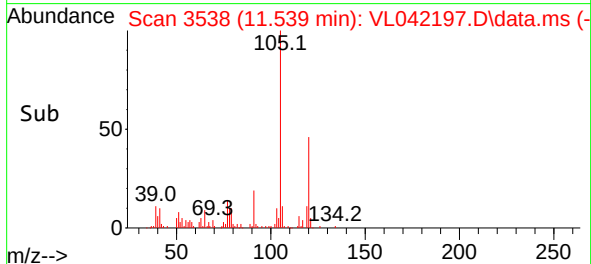


#74  
1,2,4-Trimethylbenzene  
Concen: 0.263 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.003 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20

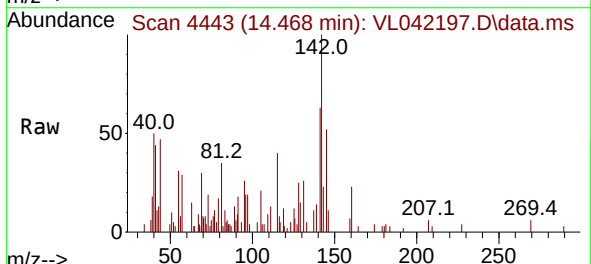
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-3-3262025



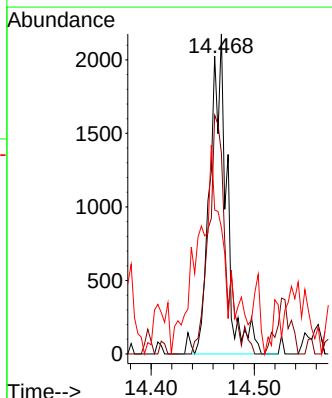
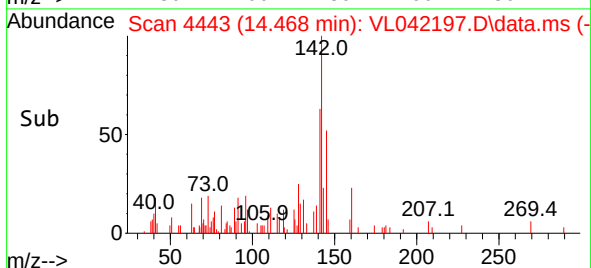
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 20838 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 45.6  | 38.6  | 58.0  |
| 91        | 19.0  | 46.2  | 69.2# |
| 77        | 14.0  | 18.6  | 27.8# |



#80  
Naphthalene,2-methyl-  
Concen: 0.058 ppbv  
RT: 14.468 min Scan# 4443  
Delta R.T. 0.013 min  
Lab File: VL042197.D  
Acq: 28 Mar 2025 01:20



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 2467  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 77.0  | 66.3  | 99.5  |
| 115       | 106.3 | 31.6  | 47.4# |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042198.D  
 Acq On : 28 Mar 2025 01:57  
 Operator : SY/MD  
 Sample : Q1669-07  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-B16-1-3262025

Quant Time: Mar 28 23:03:39 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

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.790  | 49    | 175214   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 504192   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.881  | 117   | 456695   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 374920   | 9.997    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 100.000% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.495  | 85    | 13401    | 0.518    | ppbv   | 96       |
| 3) Chlorodifluoromethane      | 1.473  | 51    | 4505     | 0.170    | ppbv # | 91       |
| 4) Chloromethane              | 1.528  | 50    | 1536     | 0.145    | ppbv # | 64       |
| 9) Propene                    | 1.479  | 41    | 10650    | 0.879    | ppbv   | 96       |
| 10) Heptane                   | 4.978  | 43    | 6715     | 0.208    | ppbv # | 66       |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 5125     | 0.204    | ppbv   | 91       |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 1240     | 0.060    | ppbv   | 89       |
| 13) Ethanol                   | 1.722  | 45    | 170673   | 149.043  | ppbv   | 82       |
| 15) Acetone                   | 1.835  | 43    | 866562   | 35.363   | ppbv   | 98       |
| 16) 1,3-Butadiene             | 1.599  | 39    | 29502    | 2.465    | ppbv # | 24       |
| 17) tert-Butyl alcohol        | 2.042  | 59    | 19215    | 0.630    | ppbv # | 89       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 17071    | 1.235    | ppbv # | 1        |
| 20) Methylene Chloride        | 2.065  | 84    | 14093    | 1.544    | ppbv   | 94       |
| 21) Allyl Chloride            | 2.081  | 41    | 1234     | 0.071    | ppbv # | 1        |
| 23) Vinyl Acetate             | 2.476  | 43    | 29318    | 2.764    | ppbv # | 49       |
| 25) Ethyl Acetate             | 2.829  | 43    | 19645    | 0.309    | ppbv # | 89       |
| 26) Hexane                    | 2.829  | 57    | 26539    | 1.080    | ppbv # | 33       |
| 27) Carbon Disulfide          | 2.146  | 76    | 1202     | 0.046    | ppbv # | 1        |
| 29) Chloroform                | 2.852  | 83    | 3953     | 0.110    | ppbv   | 93       |
| 30) Cyclohexane               | 3.858  | 84    | 3437     | 0.161    | ppbv # | 37       |
| 32) 1,1,1-Trichloroethane     | 3.376  | 97    | 2054     | 0.050    | ppbv   | 89       |
| 34) 2-Butanone                | 2.564  | 43    | 85672    | 2.343    | ppbv   | 99       |
| 36) Benzene                   | 3.661  | 78    | 22692    | 0.454    | ppbv # | 92       |
| 39) 1,2-Dichloropropane       | 3.962  | 63    | 130214   | 7.153    | ppbv # | 23       |
| 41) Tetrahydrofuran           | 3.065  | 42    | 9870     | 0.469    | ppbv   | 95       |
| 44) 2,2,4-Trimethylpentane    | 4.641  | 57    | 19657    | 0.233    | ppbv # | 61       |
| 50) 4-Methyl-2-Pentanone      | 5.768  | 43    | 90838    | 1.568    | ppbv   | 99       |
| 52) Tetrachloroethene         | 8.224  | 164   | 2909     | 0.147    | ppbv # | 78       |
| 53) Toluene                   | 6.936  | 91    | 360213   | 6.079    | ppbv   | 100      |
| 57) Chlorobenzene             | 8.924  | 112   | 2905     | 0.067    | ppbv # | 64       |
| 58) Ethyl Benzene             | 9.354  | 91    | 43413    | 0.535    | ppbv # | 87       |
| 59) m/p-Xylene                | 9.532  | 91    | 127535   | 1.969    | ppbv   | 99       |
| 60) o-Xylene                  | 9.966  | 91    | 56023    | 0.863    | ppbv   | 98       |
| 61) Styrene                   | 9.869  | 104   | 25026    | 0.779    | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.535 | 105   | 7520     | 0.077    | ppbv   | 92       |
| 64) n-propylbenzene           | 10.989 | 120   | 2528     | 0.101    | ppbv # | 9        |
| 65) tert-Butylbenzene         | 11.539 | 119   | 4406     | 0.049    | ppbv # | 60       |
| 67) sec-Butylbenzene          | 12.225 | 105   | 3942     | 0.032    | ppbv   | 94       |
| 72) 4-Ethyltoluene            | 11.124 | 105   | 14976    | 0.185    | ppbv # | 62       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105   | 14315    | 0.203    | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105   | 39507    | 0.486    | ppbv # | 70       |

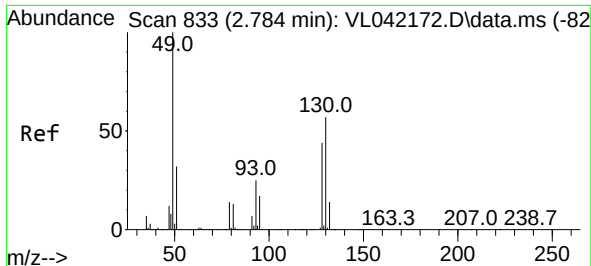
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Data File : VL042198.D  
Acq On : 28 Mar 2025 01:57  
Operator : SY/MD  
Sample : Q1669-07  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

Quant Time: Mar 28 23:03:39 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

| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

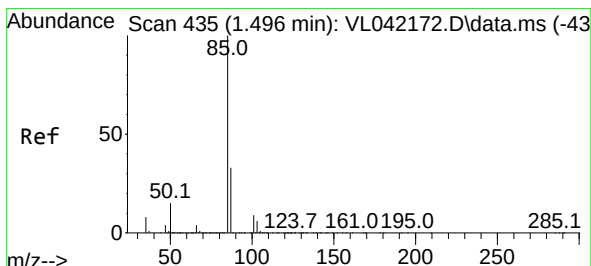
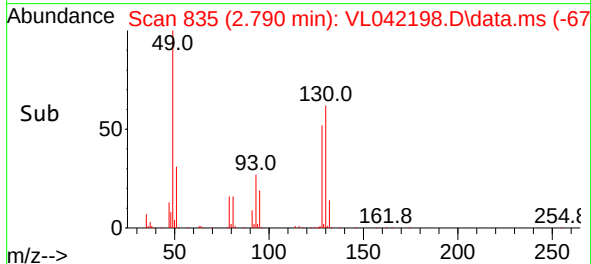
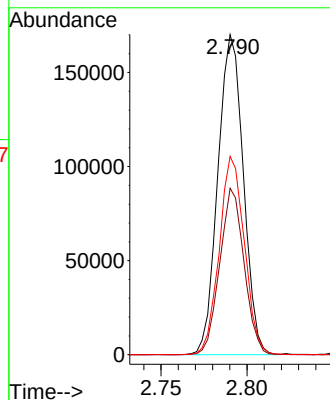
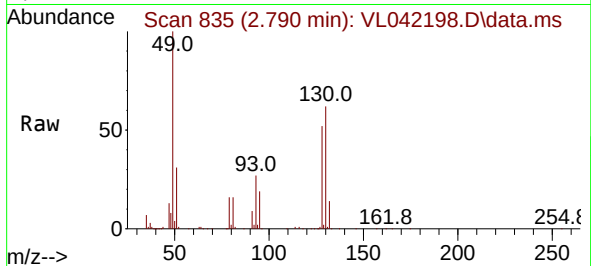




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

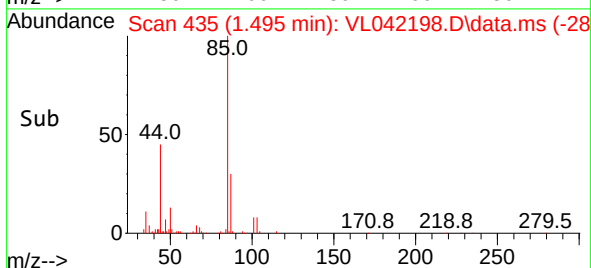
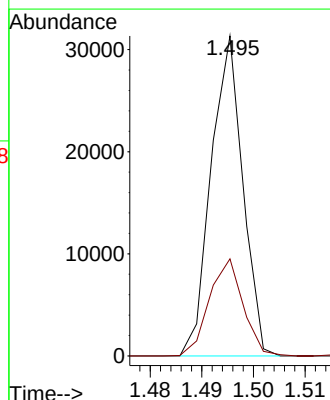
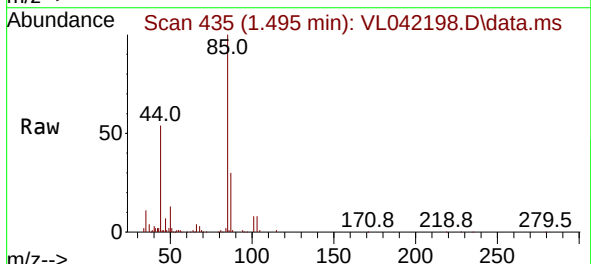
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025

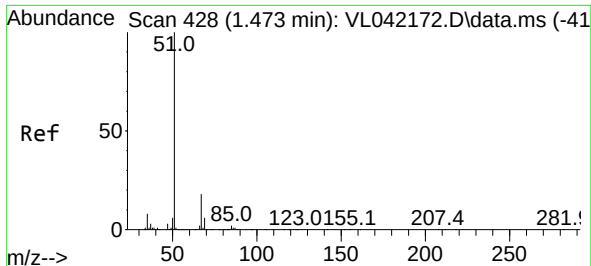
Tgt Ion: 49 Resp: 175214  
Ion Ratio Lower Upper  
49 100  
128 49.8 22.9 68.5  
130 61.1 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 0.518 ppbv  
RT: 1.495 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 85 Resp: 13401  
Ion Ratio Lower Upper  
85 100  
87 30.2 26.1 39.1

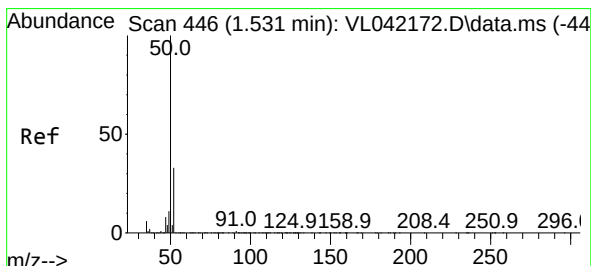
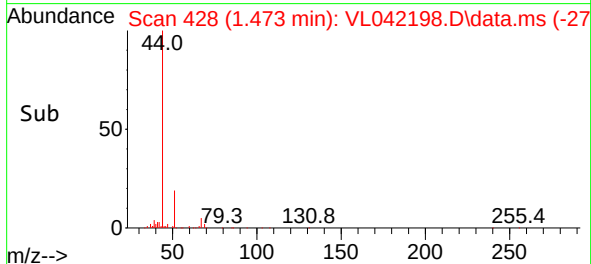
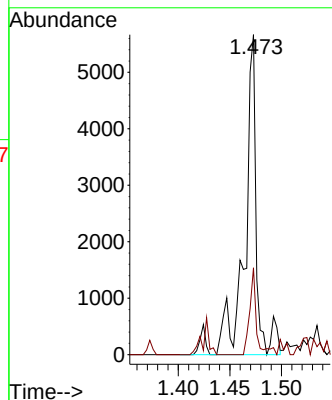
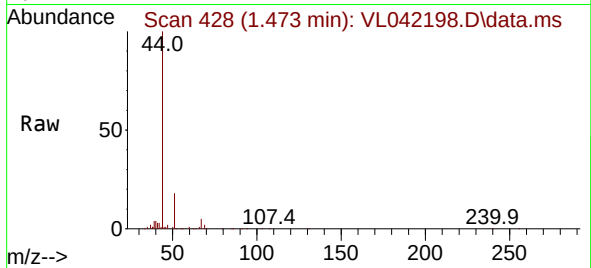




#3  
Chlorodifluoromethane  
Concen: 0.170 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

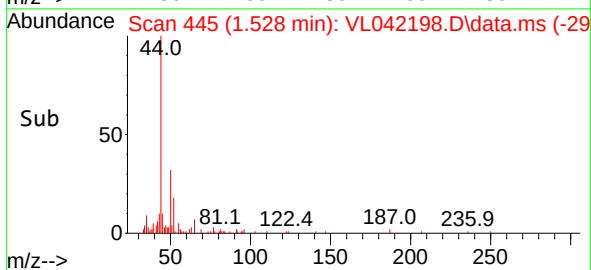
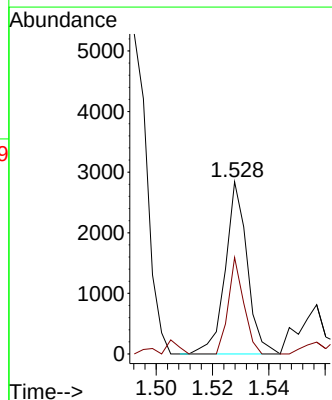
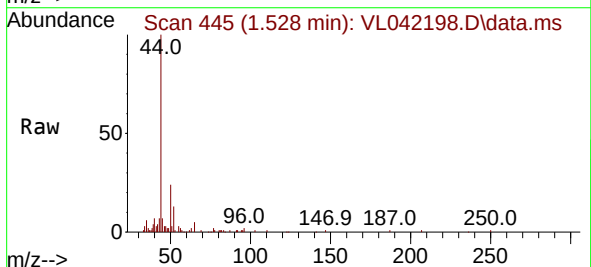
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

Tgt Ion: 51 Resp: 4505  
Ion Ratio Lower Upper  
51 100  
67 15.0 15.0 22.6#

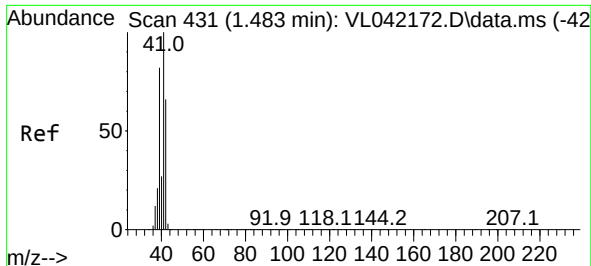


#4  
Chloromethane  
Concen: 0.145 ppbv  
RT: 1.528 min Scan# 445  
Delta R.T. -0.004 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 50 Resp: 1536  
Ion Ratio Lower Upper  
50 100  
52 52.7 26.1 39.1#



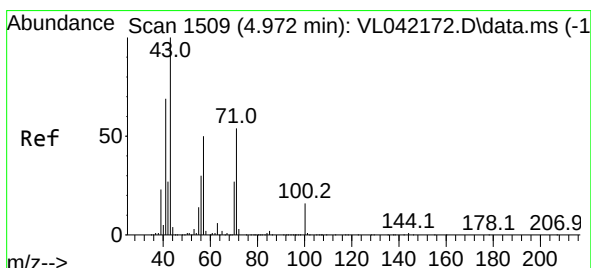
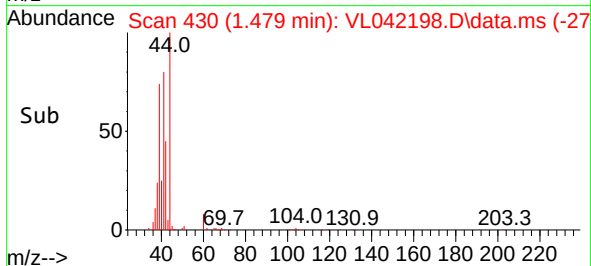
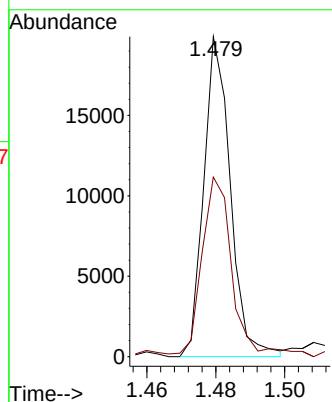
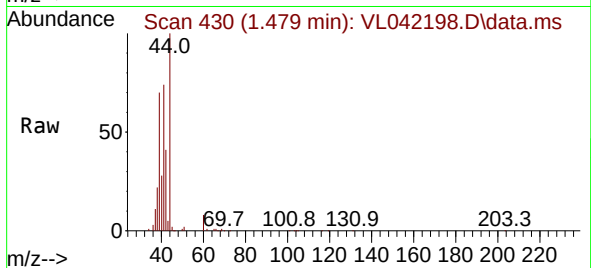




#9  
Propene  
Concen: 0.879 ppbv  
RT: 1.479 min Scan# 41  
Delta R.T. -0.004 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

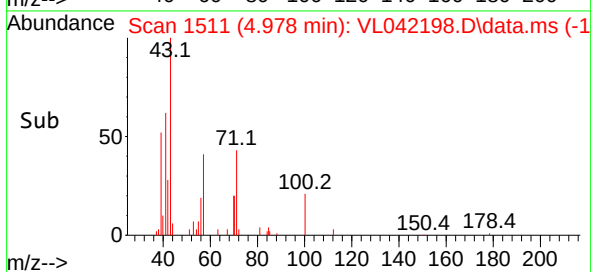
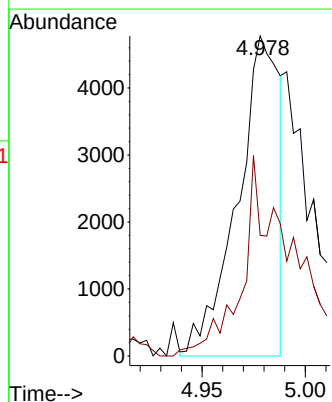
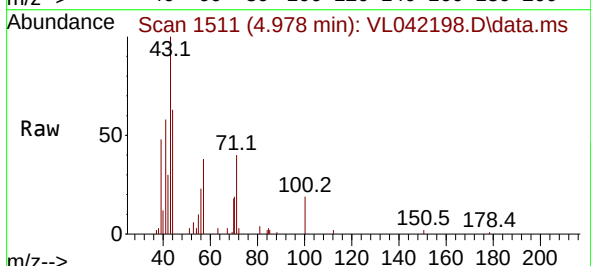
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

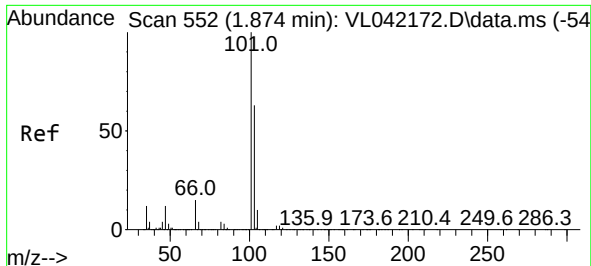
Tgt Ion: 41 Resp: 10650  
Ion Ratio Lower Upper  
41 100  
42 66.4 55.4 83.2



#10  
Heptane  
Concen: 0.208 ppbv  
RT: 4.978 min Scan# 1511  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 43 Resp: 6715  
Ion Ratio Lower Upper  
43 100  
57 72.8 39.4 59.2#

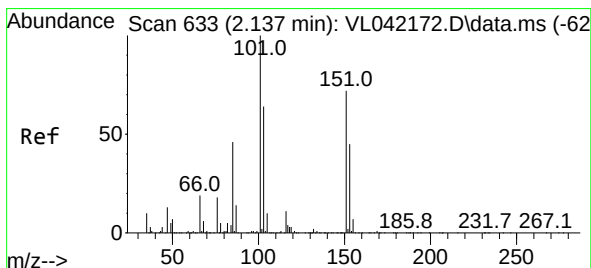
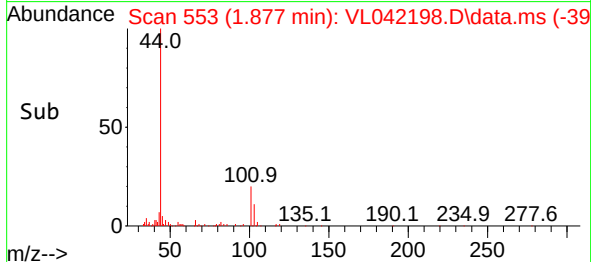
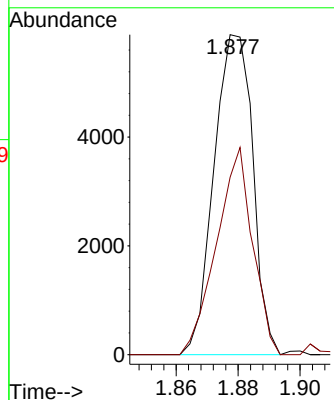
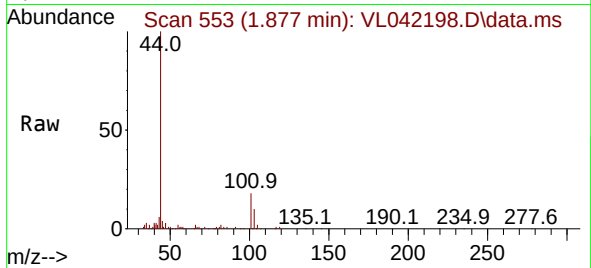




#11  
 Trichlorofluoromethane  
 Concen: 0.204 ppbv  
 RT: 1.877 min Scan# 51  
 Delta R.T. 0.003 min  
 Lab File: VL042198.D  
 Acq: 28 Mar 2025 01:57

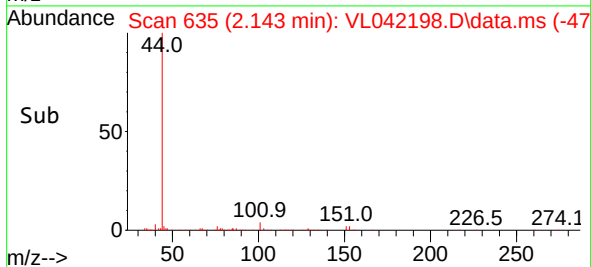
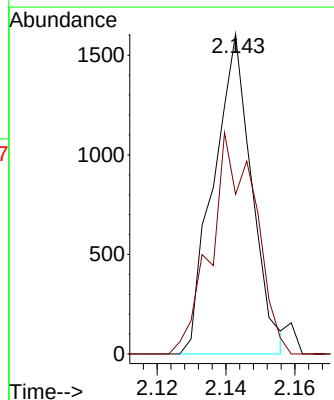
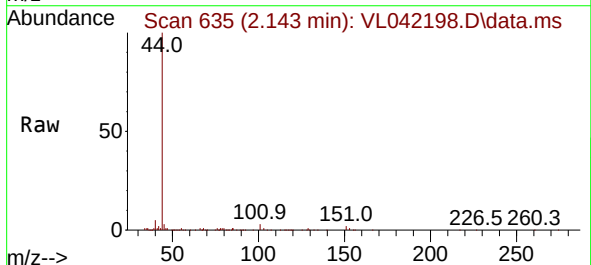
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 SSSG-B16-1-3262025

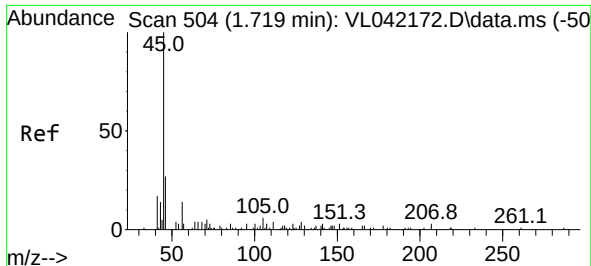
Tgt Ion:101 Resp: 5125  
 Ion Ratio Lower Upper  
 101 100  
 103 55.4 50.2 75.2



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.060 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. 0.006 min  
 Lab File: VL042198.D  
 Acq: 28 Mar 2025 01:57

Tgt Ion:101 Resp: 1240  
 Ion Ratio Lower Upper  
 101 100  
 151 80.2 57.1 85.7

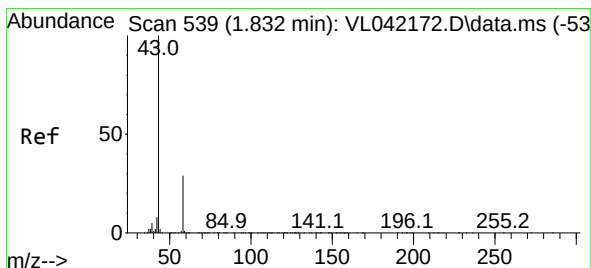
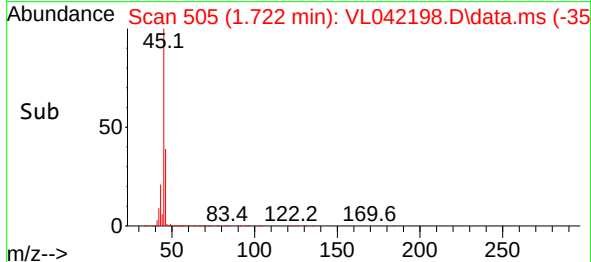
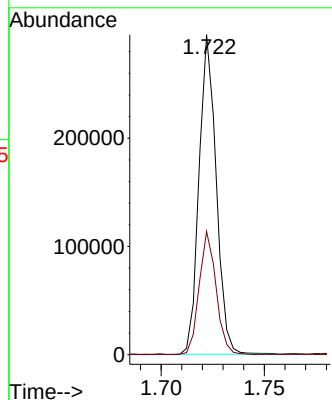
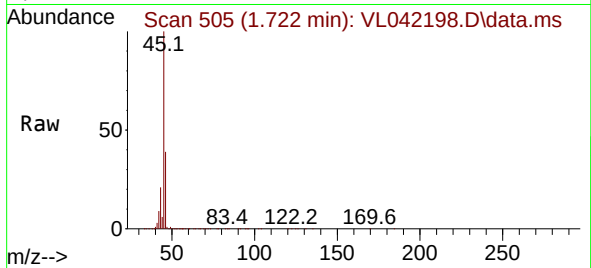




#13  
Ethanol  
Concen: 149.043 ppbv  
RT: 1.722 min Scan# 50  
Delta R.T. 0.003 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

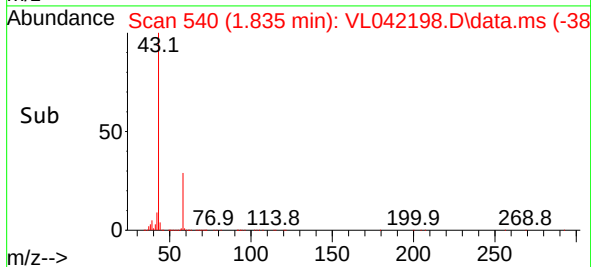
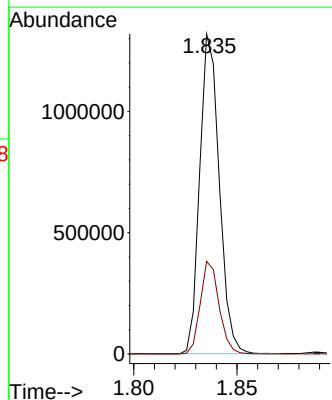
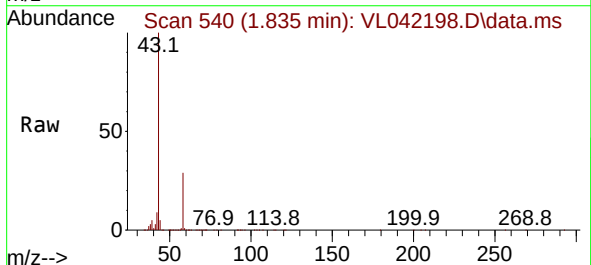
Instrument :  
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ClientSampleId :  
SSSG-B16-1-3262025

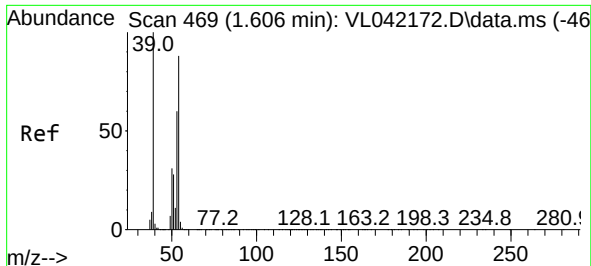
Tgt Ion: 45 Resp: 170673  
Ion Ratio Lower Upper  
45 100  
46 38.0 20.2 80.8



#15  
Acetone  
Concen: 35.363 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. 0.003 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 43 Resp: 866562  
Ion Ratio Lower Upper  
43 100  
58 28.0 23.2 34.8

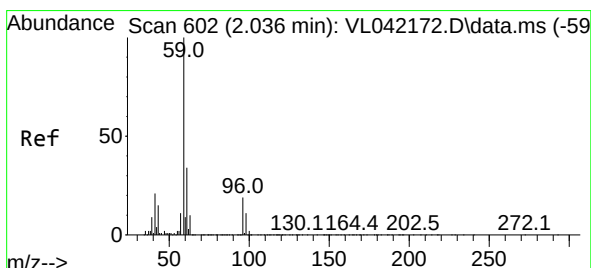
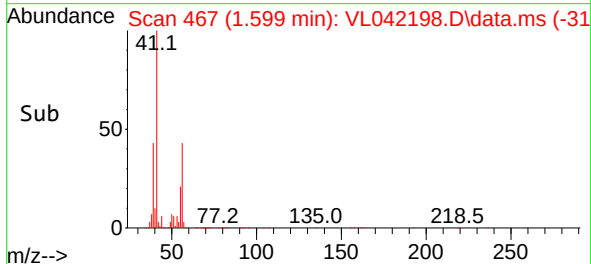
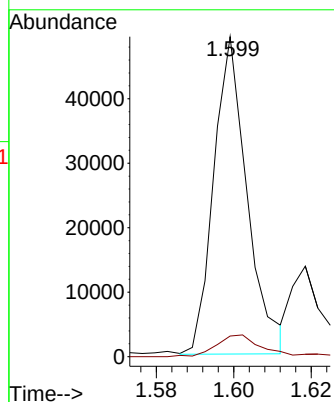
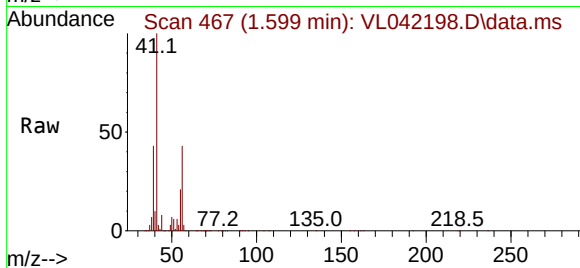




#16  
1,3-Butadiene  
Concen: 2.465 ppbv  
RT: 1.599 min Scan# 40  
Delta R.T. -0.007 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

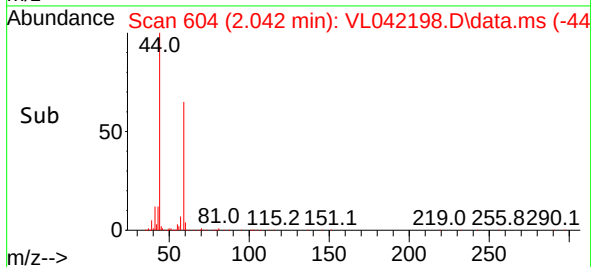
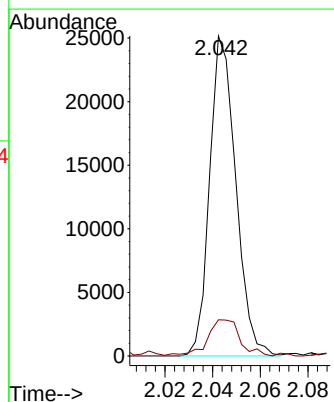
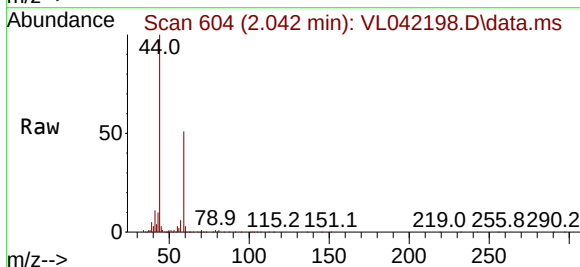
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025

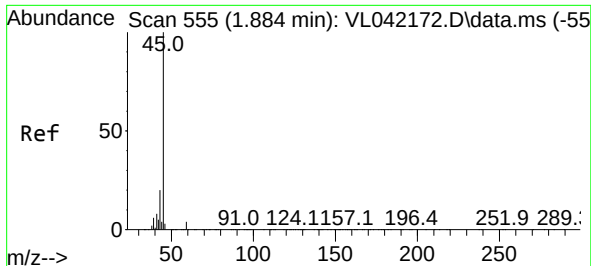
Tgt Ion: 39 Resp: 29502  
Ion Ratio Lower Upper  
39 100  
54 10.7 60.7 91.1#



#17  
tert-Butyl alcohol  
Concen: 0.630 ppbv  
RT: 2.042 min Scan# 604  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 59 Resp: 19215  
Ion Ratio Lower Upper  
59 100  
57 15.1 8.9 13.3#

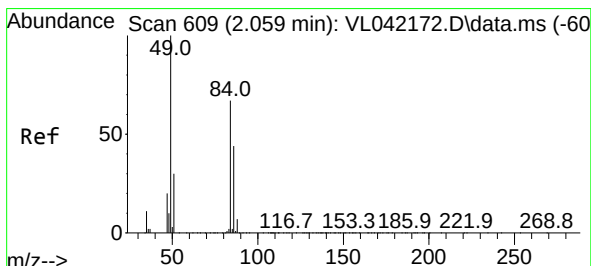
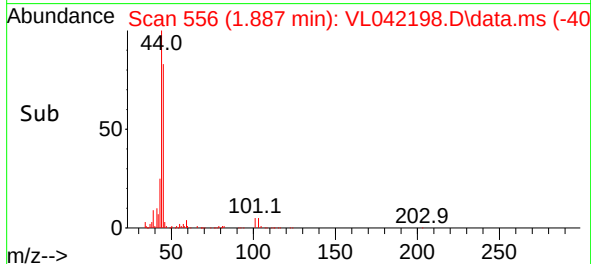
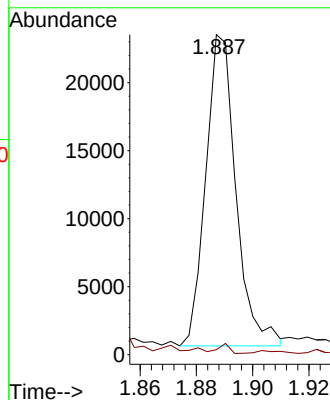
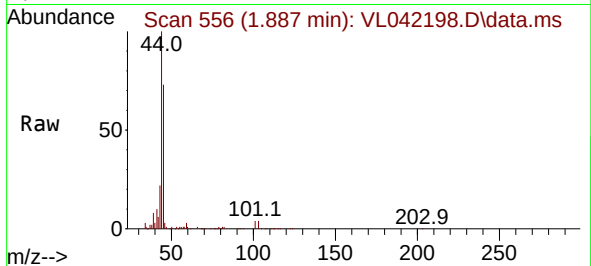




#19  
Isopropyl Alcohol  
Concen: 1.235 ppbv  
RT: 1.887 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

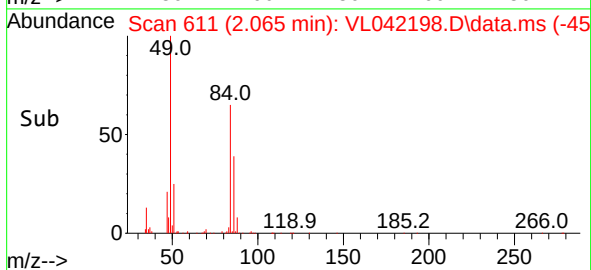
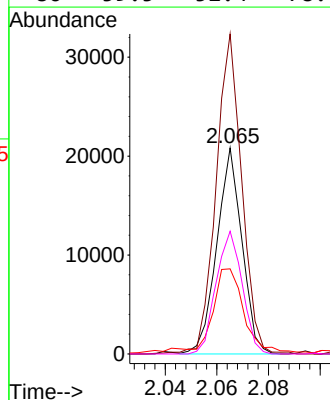
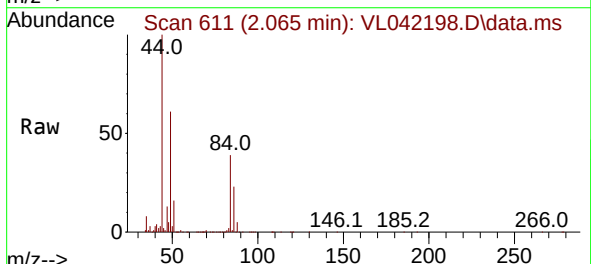
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025

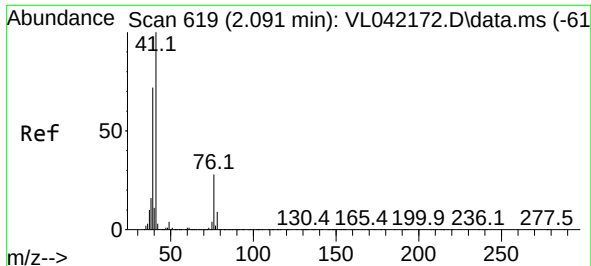
Tgt Ion: 45 Resp: 17071  
Ion Ratio Lower Upper  
45 100  
58 1417.2 36.9 55.3#



#20  
Methylene Chloride  
Concen: 1.544 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 84 Resp: 14093  
Ion Ratio Lower Upper  
84 100  
49 154.4 120.2 180.4  
51 39.8 37.4 56.0  
86 59.5 52.4 78.6

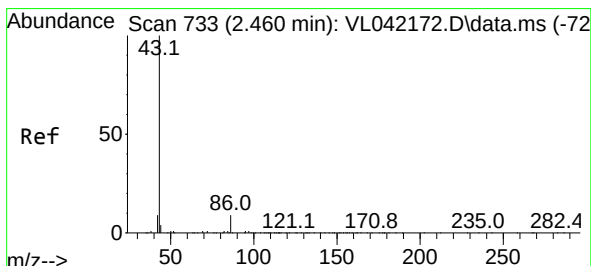
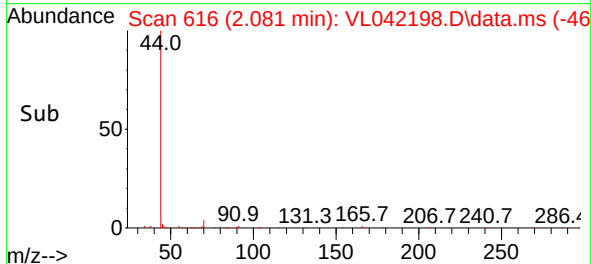
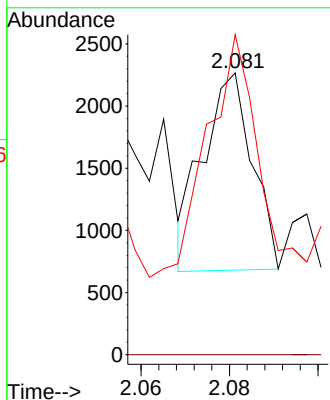
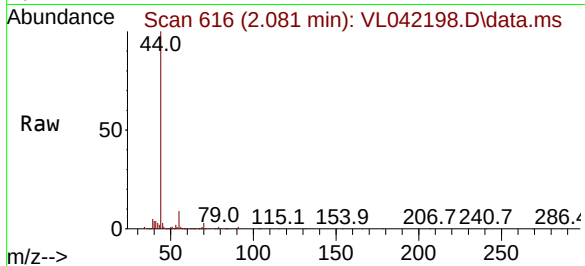




#21  
Allyl Chloride  
Concen: 0.071 ppbv  
RT: 2.081 min Scan# 61  
Delta R.T. -0.010 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

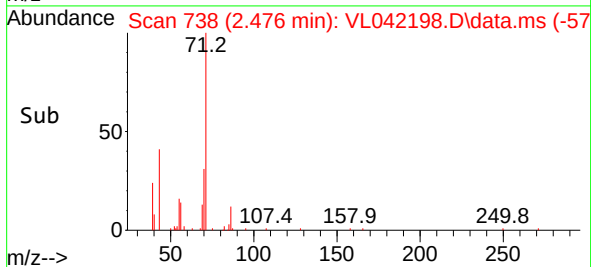
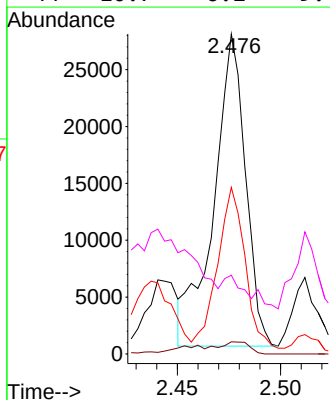
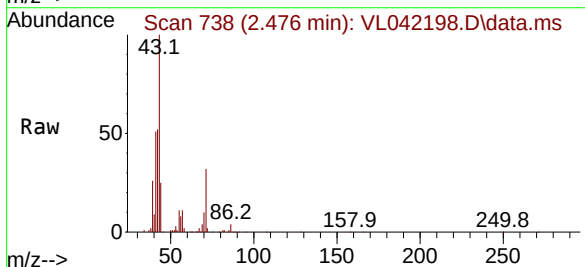
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

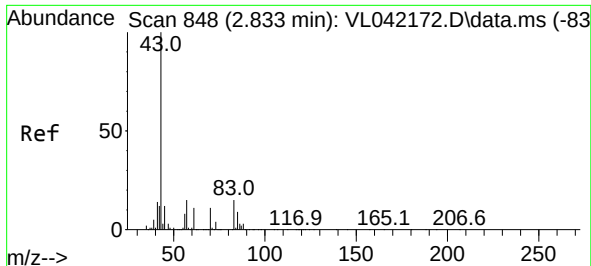
Tgt Ion: 41 Resp: 1234  
Ion Ratio Lower Upper  
41 100  
76 5.0 24.1 36.1#  
39 191.2 61.1 91.7#



#23  
Vinyl Acetate  
Concen: 2.764 ppbv  
RT: 2.476 min Scan# 738  
Delta R.T. 0.016 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 43 Resp: 29318  
Ion Ratio Lower Upper  
43 100  
86 3.9 5.5 8.3#  
42 51.5 8.6 13.0#  
44 10.7 6.2 9.4#

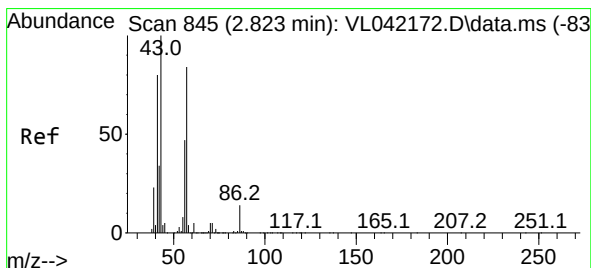
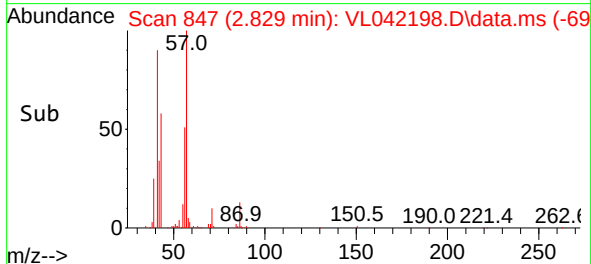
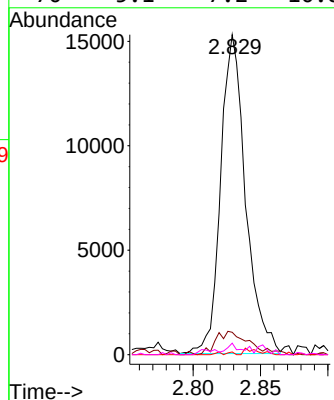
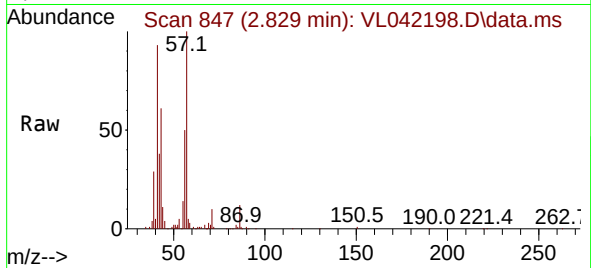




#25  
Ethyl Acetate  
Concen: 0.309 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. -0.004 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

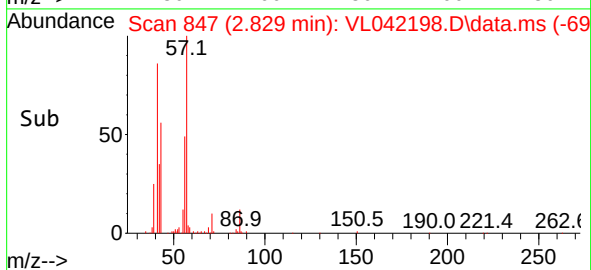
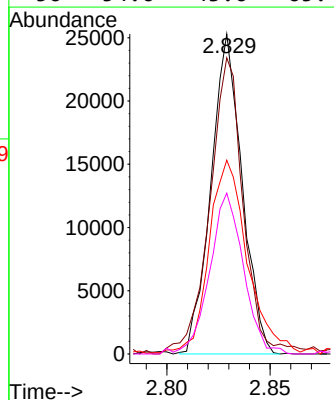
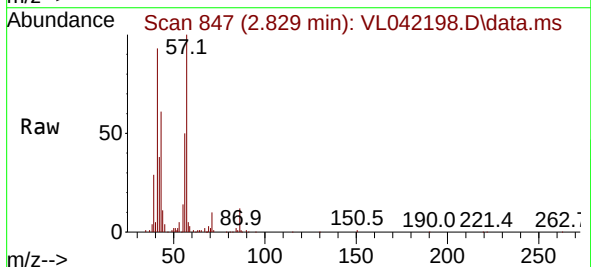
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025

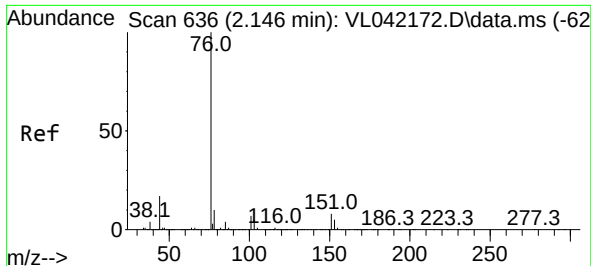
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 19645 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 10.0     | 8.2 12.2    |
| 61 1.3      | 7.3 10.9#   |
| 70 5.1      | 7.2 10.8#   |



#26  
Hexane  
Concen: 1.080 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 26539  |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 104.4    | 76.6 114.8   |
| 43 75.7     | 207.8 311.8# |
| 56 54.6     | 43.6 65.4    |

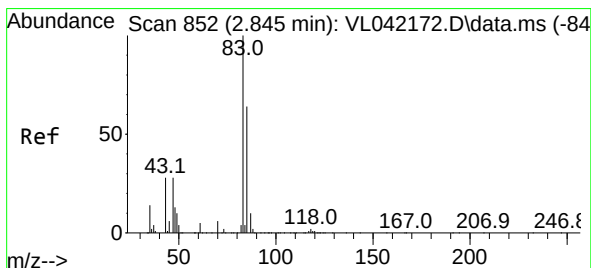
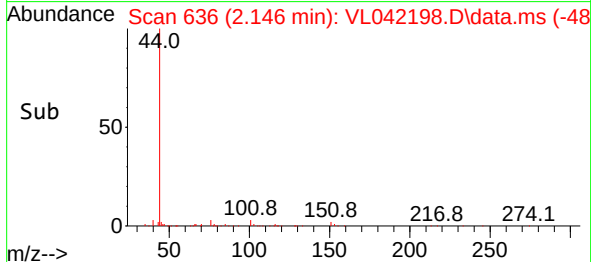
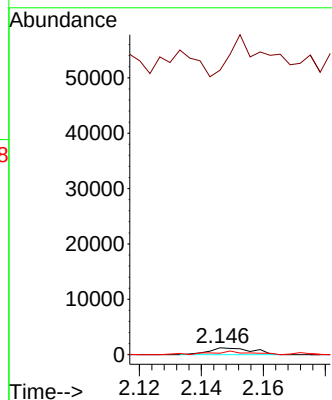
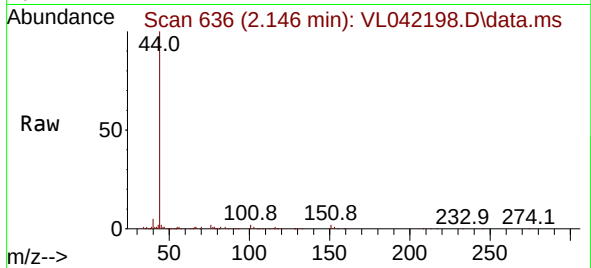




#27  
Carbon Disulfide  
Concen: 0.046 ppbv  
RT: 2.146 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

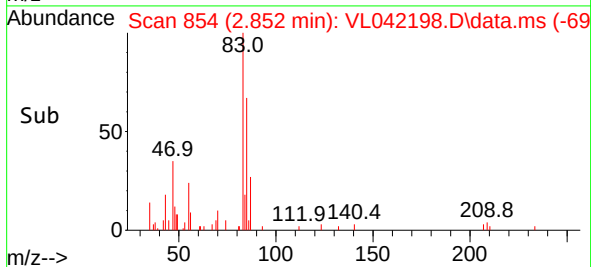
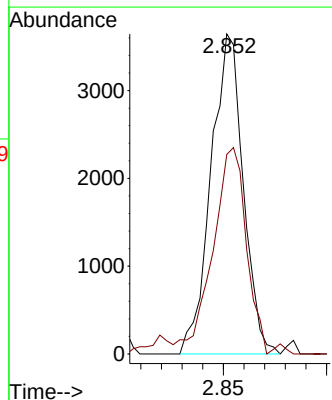
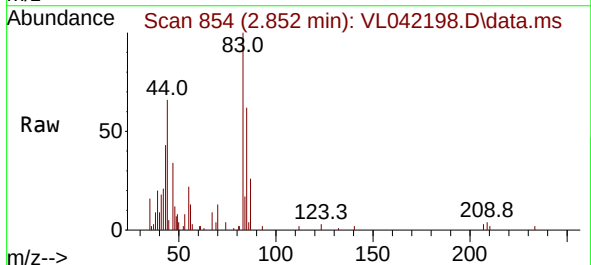
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

Tgt Ion: 76 Resp: 1202  
Ion Ratio Lower Upper  
76 100  
44 3310.7 14.7 22.1#  
78 55.1 9.3 13.9#

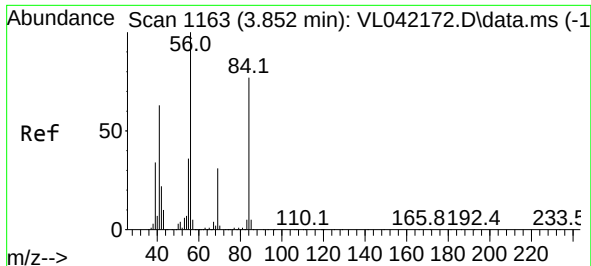


#29  
Chloroform  
Concen: 0.110 ppbv  
RT: 2.852 min Scan# 854  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 83 Resp: 3953  
Ion Ratio Lower Upper  
83 100  
85 59.2 51.4 77.2



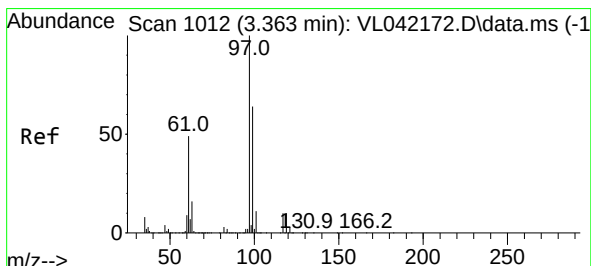
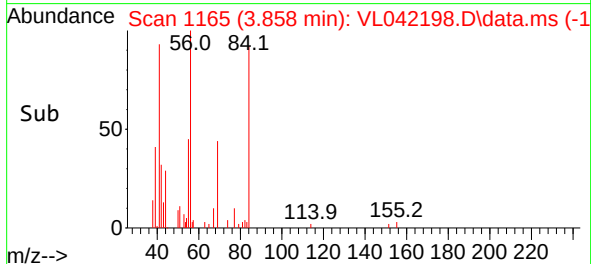
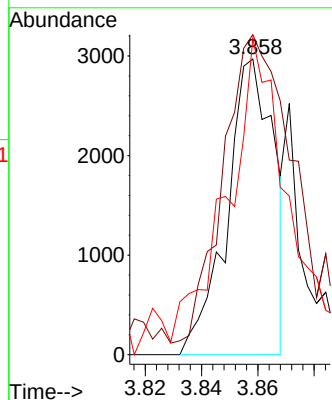
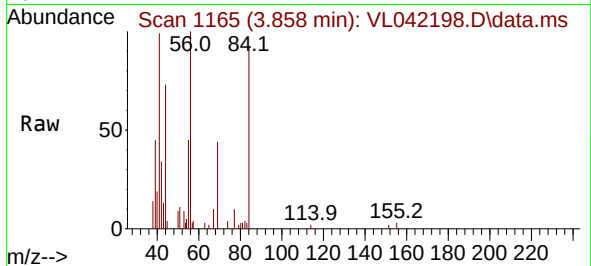




#30  
Cyclohexane  
Concen: 0.161 ppbv  
RT: 3.858 min Scan# 1165  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

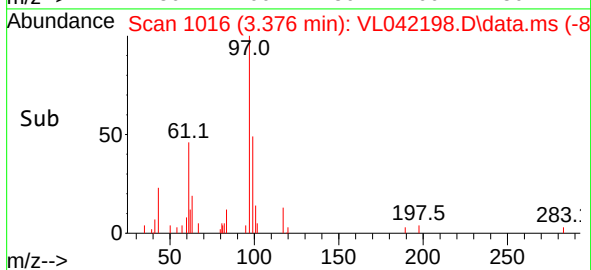
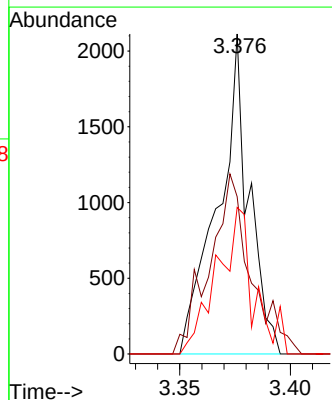
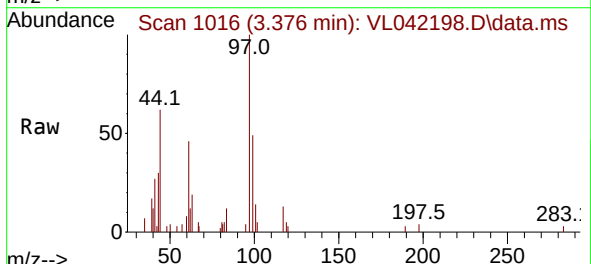
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025

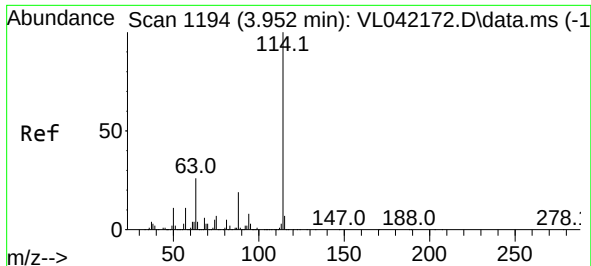
Tgt Ion: 84 Resp: 3437  
Ion Ratio Lower Upper  
84 100  
56 173.7 102.8 154.2#  
41 172.7 66.5 99.7#



#32  
1,1,1-Trichloroethane  
Concen: 0.050 ppbv  
RT: 3.376 min Scan# 1016  
Delta R.T. 0.013 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 97 Resp: 2054  
Ion Ratio Lower Upper  
97 100  
99 74.8 51.5 77.3  
61 54.2 38.7 58.1

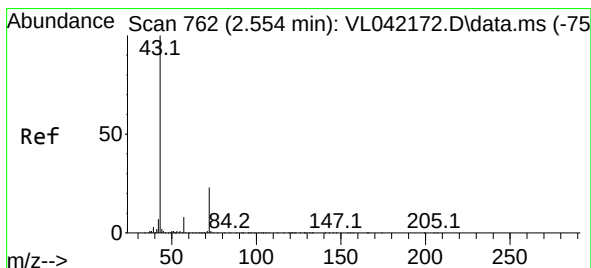
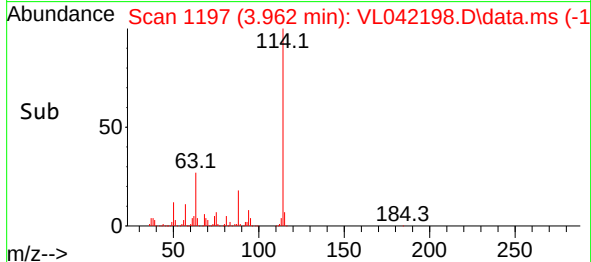
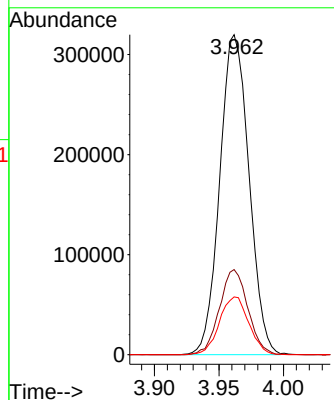
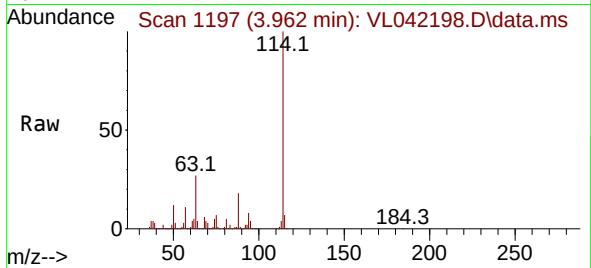




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. 0.009 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

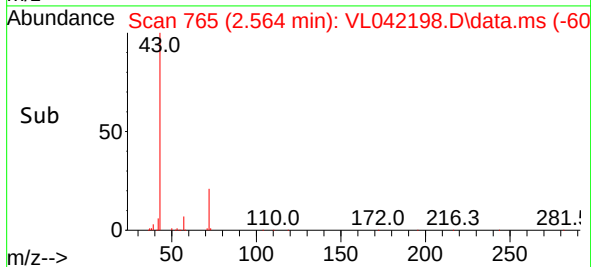
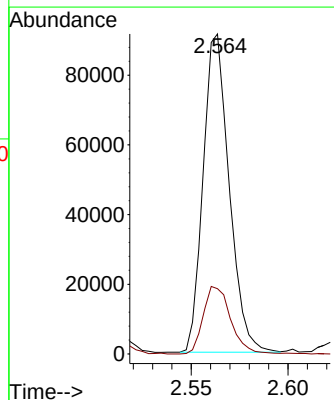
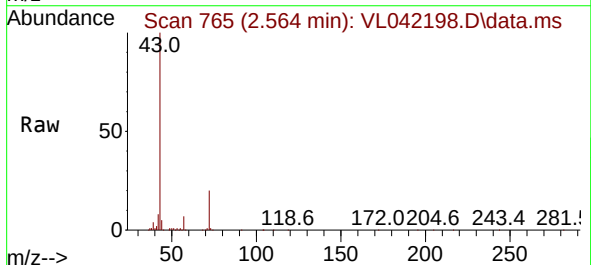
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

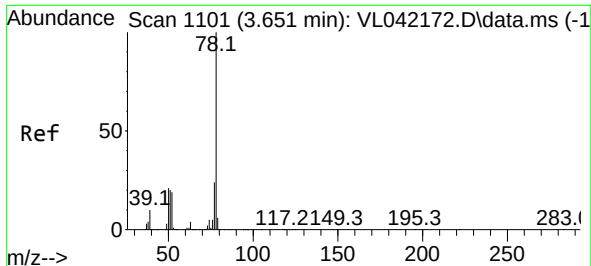
Tgt Ion:114 Resp: 504192  
Ion Ratio Lower Upper  
114 100  
63 25.9 20.7 31.1  
88 18.2 15.0 22.4



#34  
2-Butanone  
Concen: 2.343 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.009 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 43 Resp: 85672  
Ion Ratio Lower Upper  
43 100  
72 22.4 18.2 27.2

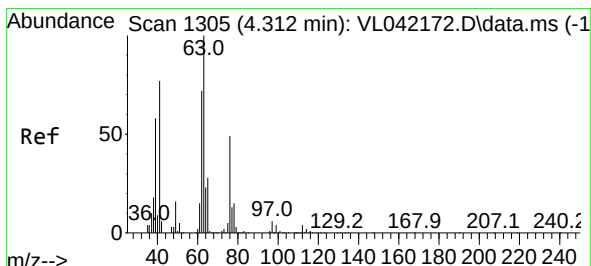
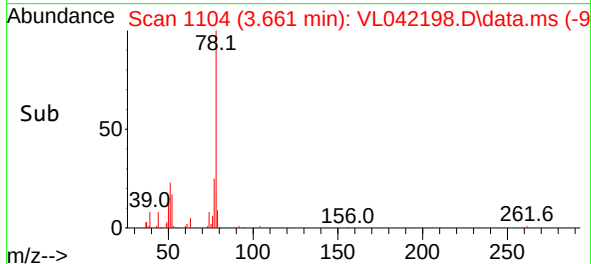
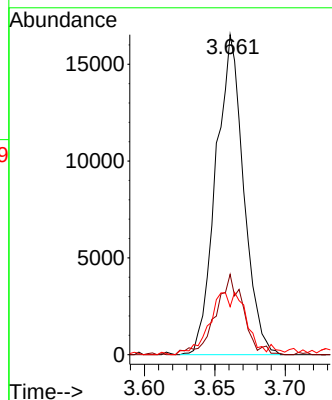
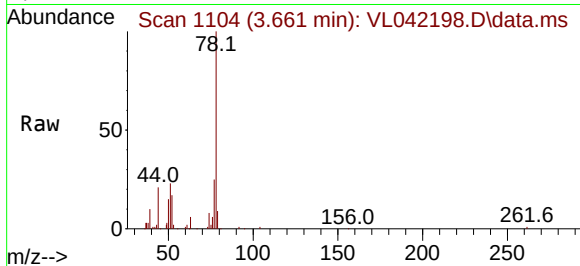




#36  
Benzene  
Concen: 0.454 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. 0.009 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

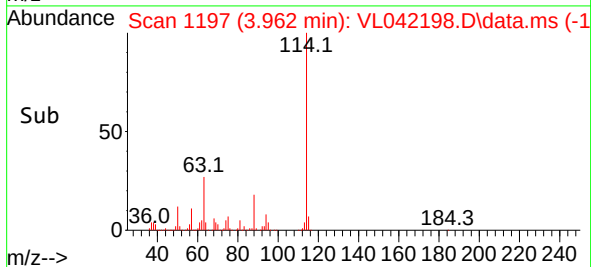
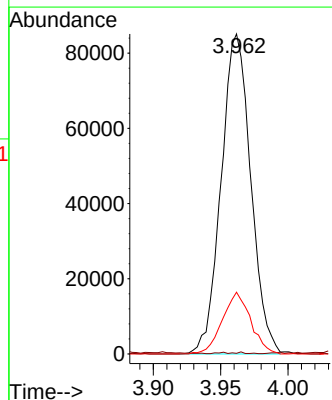
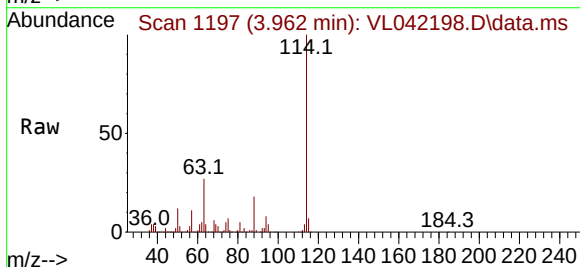
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025

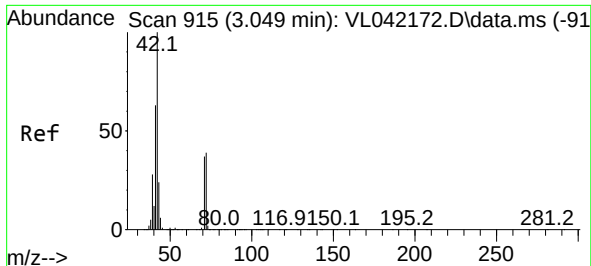
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 24.7  | 19.1  | 28.7  |
| 50      | 13.8  | 16.6  | 24.8  |



#39  
1,2-Dichloropropane  
Concen: 7.153 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. -0.350 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 0.0   | 61.7  | 92.5  |
| 62      | 19.3  | 57.6  | 86.4  |

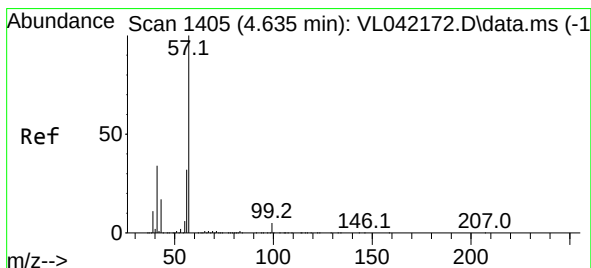
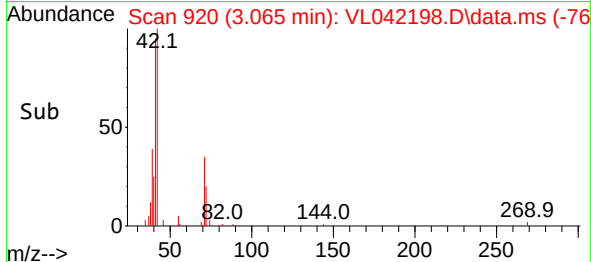
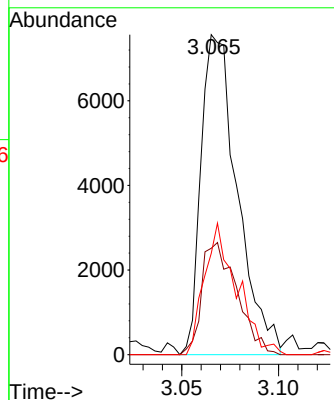
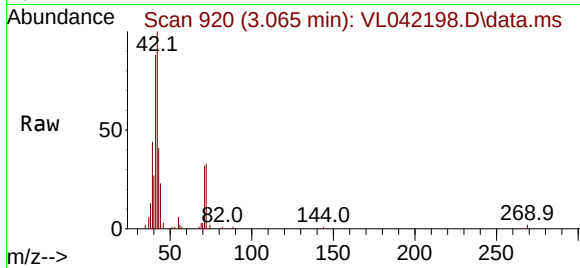




#41  
Tetrahydrofuran  
Concen: 0.469 ppbv  
RT: 3.065 min Scan# 91  
Delta R.T. 0.016 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

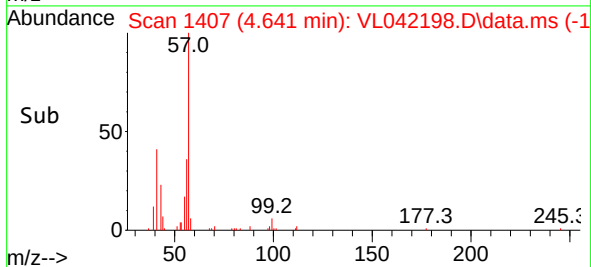
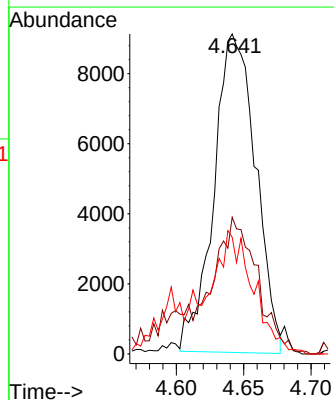
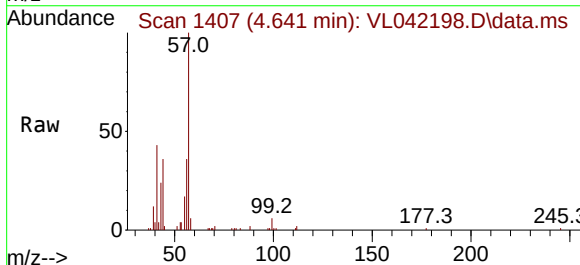
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

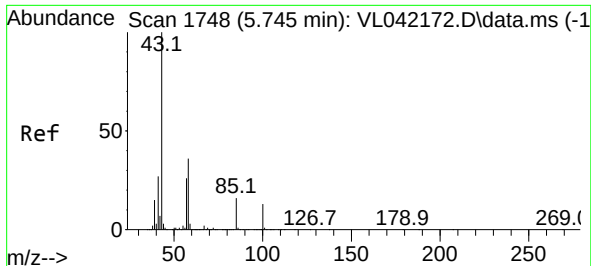
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 9870  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 34.1  | 31.4  | 47.0  |
| 71       | 36.7  | 30.2  | 45.4  |



#44  
2,2,4-Trimethylpentane  
Concen: 0.233 ppbv  
RT: 4.641 min Scan# 1407  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 57    | Resp: | 19657 |
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 57.4  | 26.8  | 40.2# |
| 56       | 52.5  | 25.6  | 38.4# |

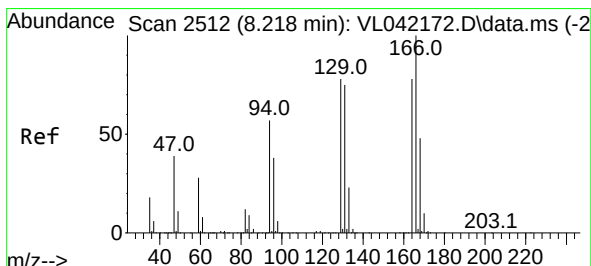
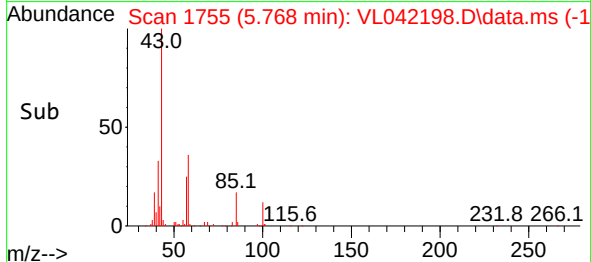
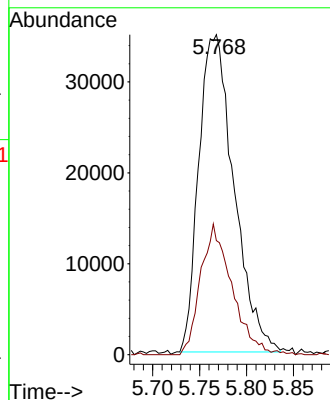
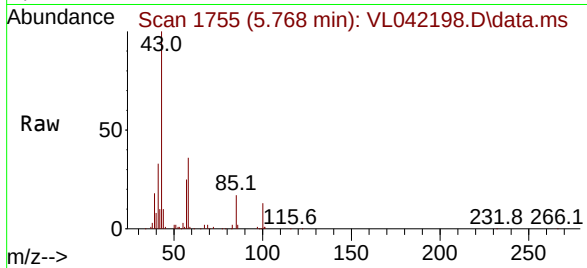




#50  
4-Methyl-2-Pentanone  
Concen: 1.568 ppbv  
RT: 5.768 min Scan# 11  
Delta R.T. 0.022 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

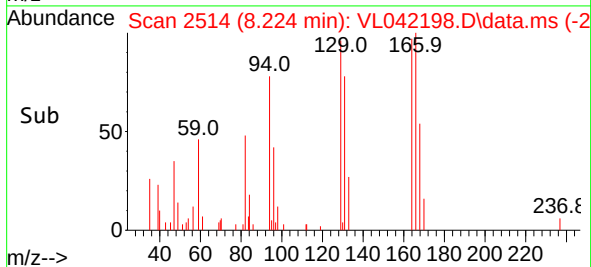
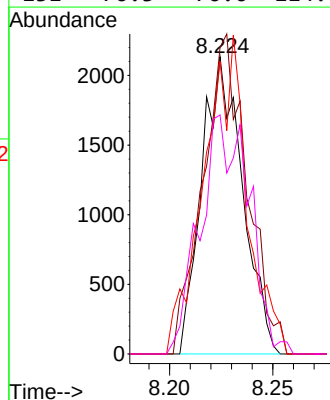
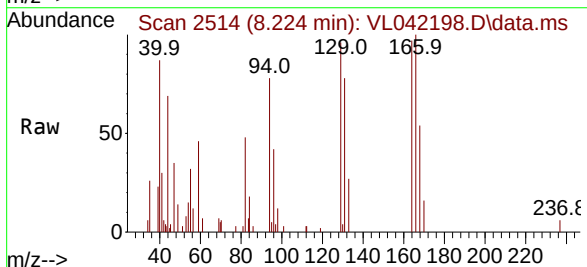
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025

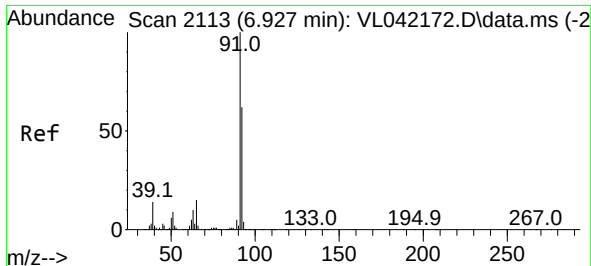
Tgt Ion: 43 Resp: 90838  
Ion Ratio Lower Upper  
43 100  
58 36.8 29.0 43.6



#52  
Tetrachloroethene  
Concen: 0.147 ppbv  
RT: 8.224 min Scan# 2514  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 164 Resp: 2909  
Ion Ratio Lower Upper  
164 100  
166 92.3 102.5 153.7#  
129 88.4 79.8 119.8  
131 76.3 76.6 114.8#

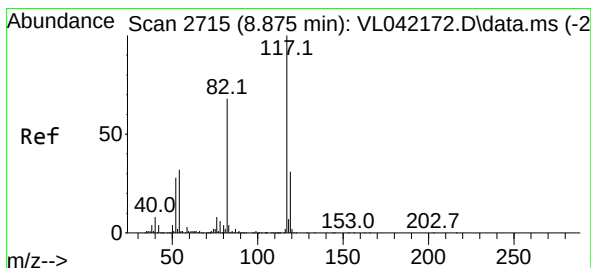
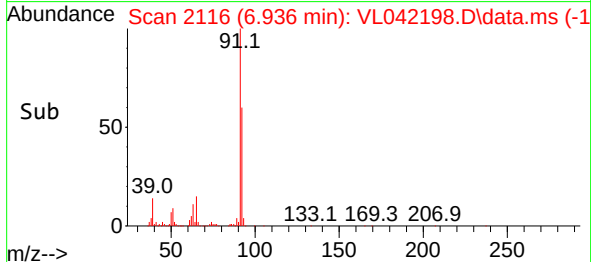
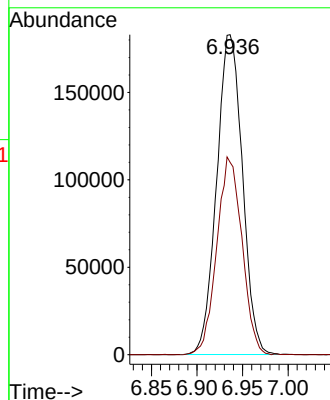
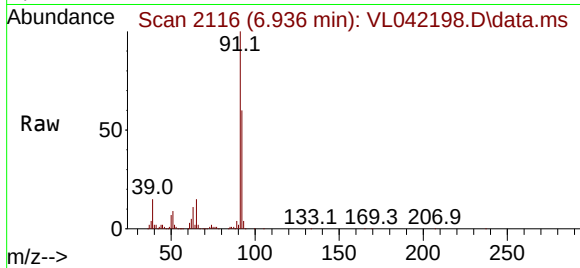




#53  
Toluene  
Concen: 6.079 ppbv  
RT: 6.936 min Scan# 2116  
Delta R.T. 0.009 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

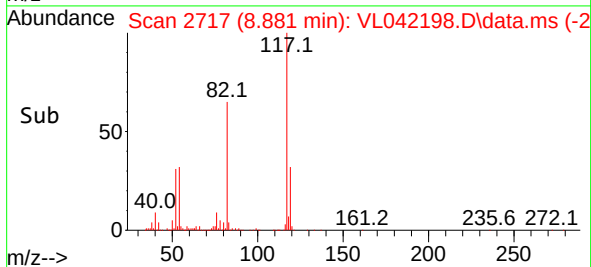
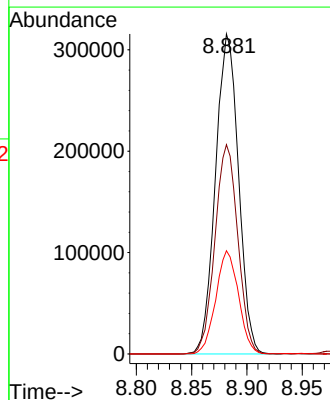
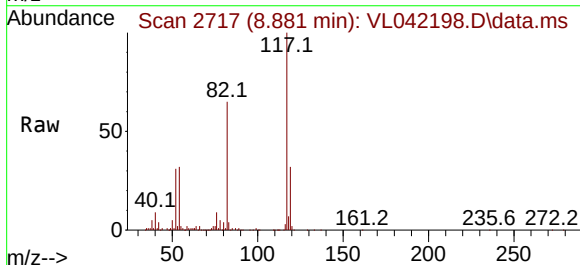
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025

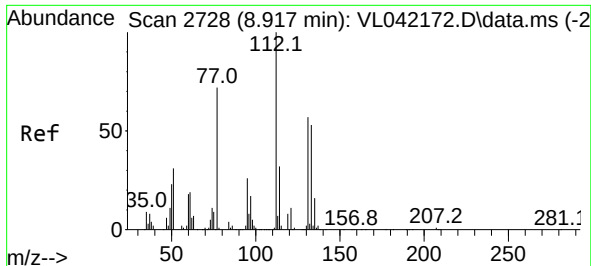
Tgt Ion: 91 Resp: 360213  
Ion Ratio Lower Upper  
91 100  
92 60.4 48.4 72.6



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.881 min Scan# 2717  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 117 Resp: 456695  
Ion Ratio Lower Upper  
117 100  
82 65.0 55.8 83.6  
119 31.9 25.5 38.3





#57

Chlorobenzene

Concen: 0.067 ppbv

RT: 8.924 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042198.D

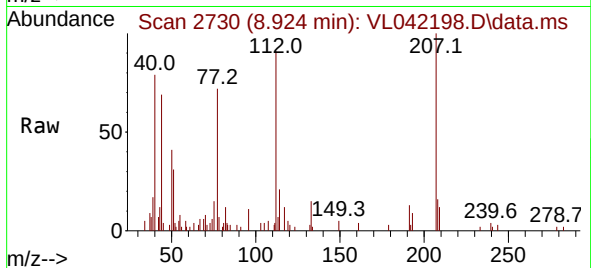
Acq: 28 Mar 2025 01:57

Instrument :

MSVOA\_1

ClientSampleId :

SSSG-B16-1-3262025



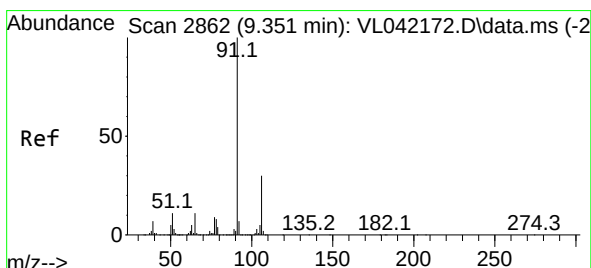
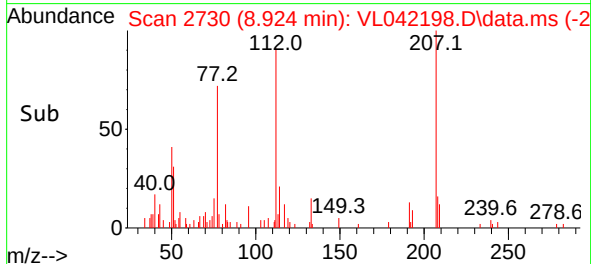
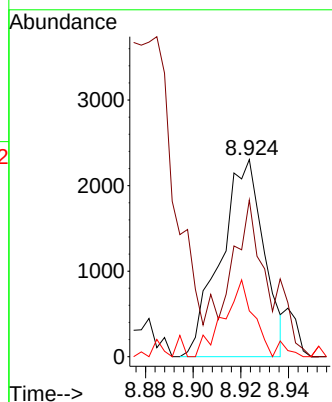
Tgt Ion:112 Resp: 2905

Ion Ratio Lower Upper

112 100

77 40.0 58.2 87.2#

114 15.3 29.1 35.5#



#58

Ethyl Benzene

Concen: 0.535 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. 0.003 min

Lab File: VL042198.D

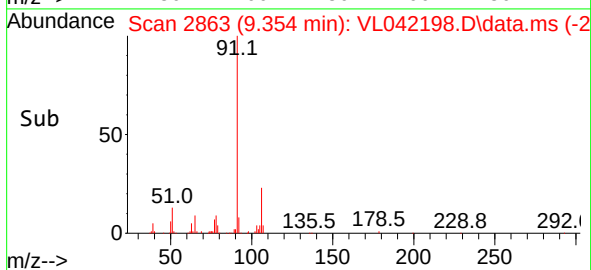
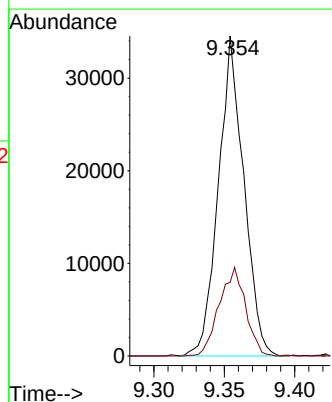
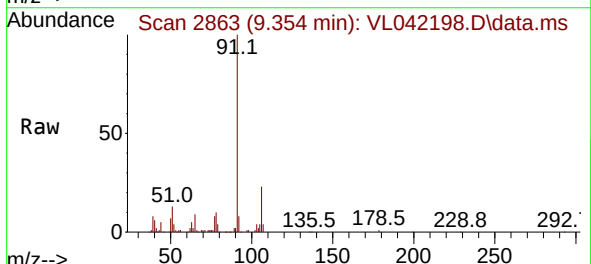
Acq: 28 Mar 2025 01:57

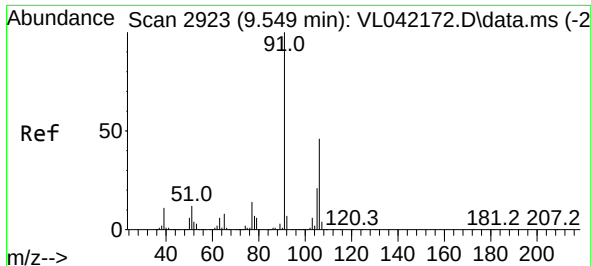
Tgt Ion: 91 Resp: 43413

Ion Ratio Lower Upper

91 100

106 23.0 24.2 36.2#

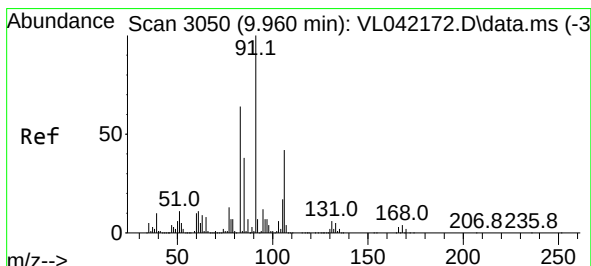
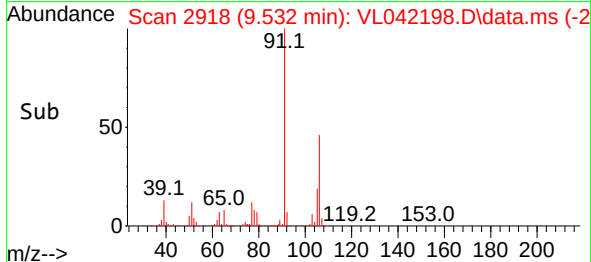
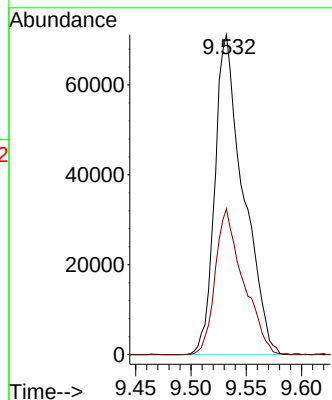
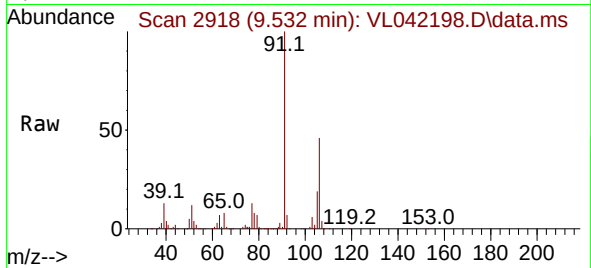




#59  
m/p-Xylene  
Concen: 1.969 ppbv  
RT: 9.532 min Scan# 2918  
Delta R.T. -0.016 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

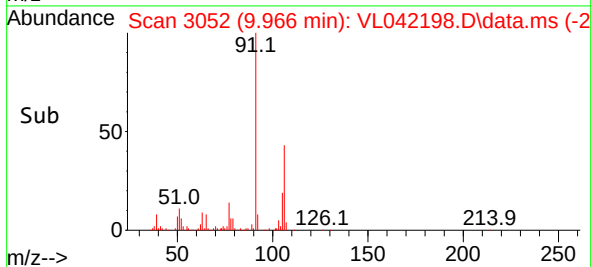
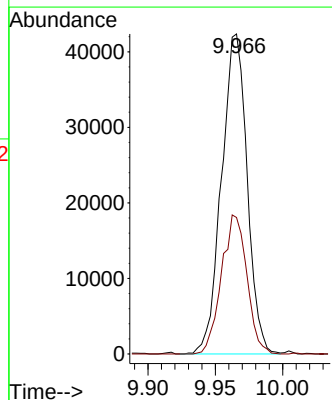
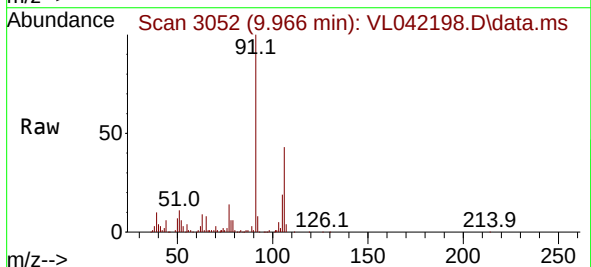
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025

Tgt Ion: 91 Resp: 127535  
Ion Ratio Lower Upper  
91 100  
106 44.9 36.4 54.6

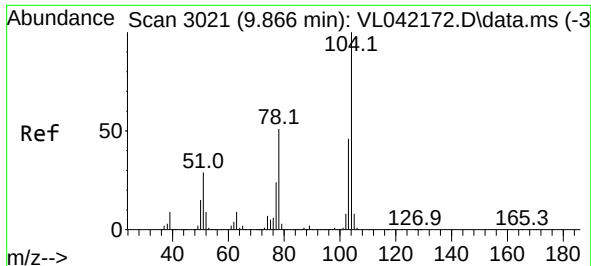


#60  
o-Xylene  
Concen: 0.863 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion: 91 Resp: 56023  
Ion Ratio Lower Upper  
91 100  
106 43.2 20.8 62.5



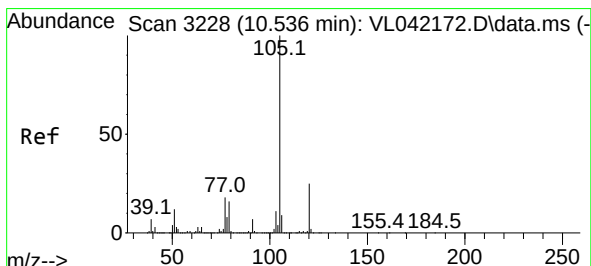
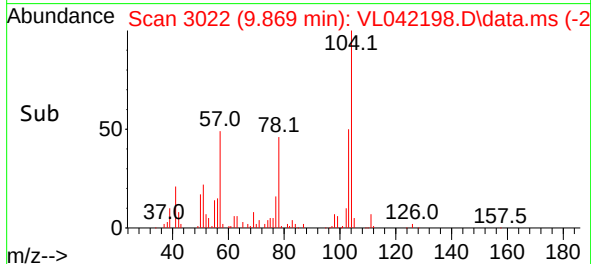
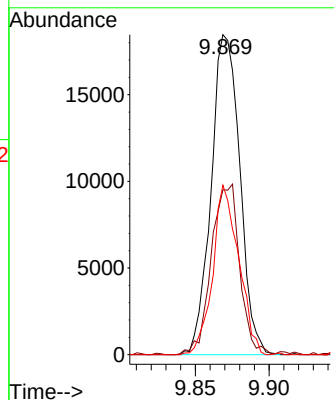
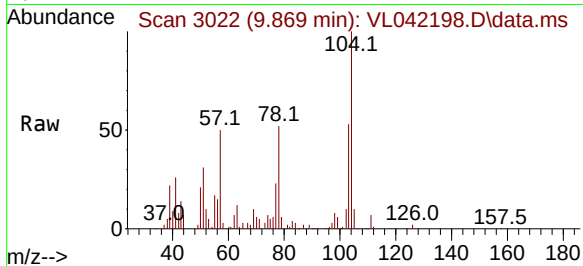




#61  
Styrene  
Concen: 0.779 ppbv  
RT: 9.869 min Scan# 3021  
Delta R.T. 0.003 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

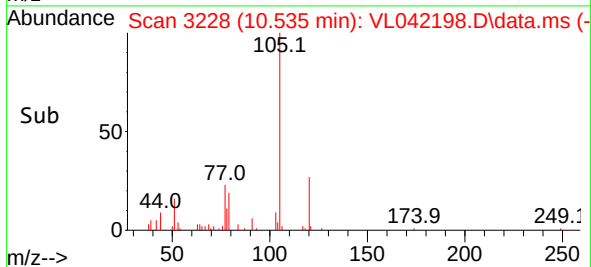
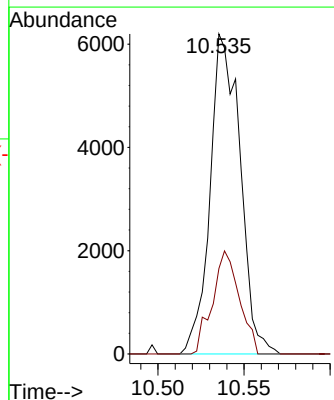
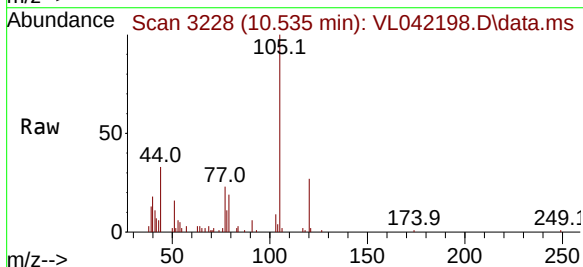
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025

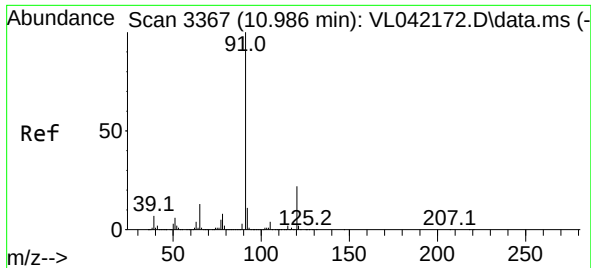
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 104   | Resp: | 25026 |
| Ion Ratio | Lower | Upper |       |
| 104       | 100   |       |       |
| 78        | 52.8  | 41.8  | 62.6  |
| 103       | 48.0  | 37.0  | 55.4  |



#62  
Isopropylbenzene  
Concen: 0.077 ppbv  
RT: 10.535 min Scan# 3228  
Delta R.T. -0.000 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 7520 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 29.0  | 19.9  | 29.9 |

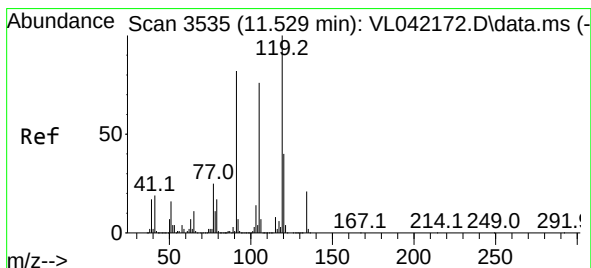
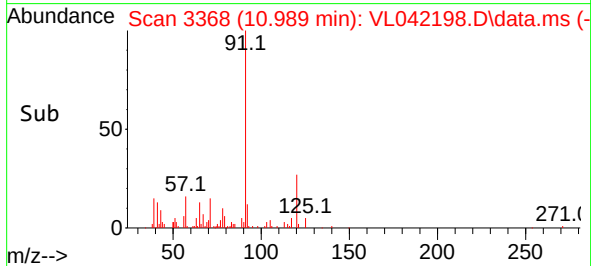
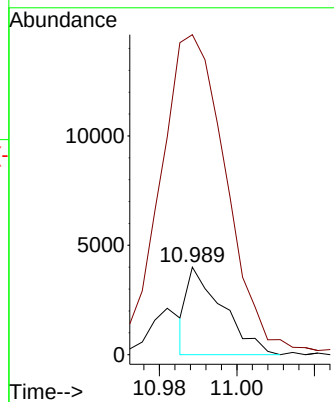
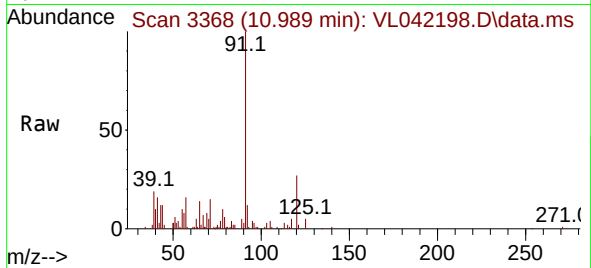




#64  
n-propylbenzene  
Concen: 0.101 ppbv  
RT: 10.989 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

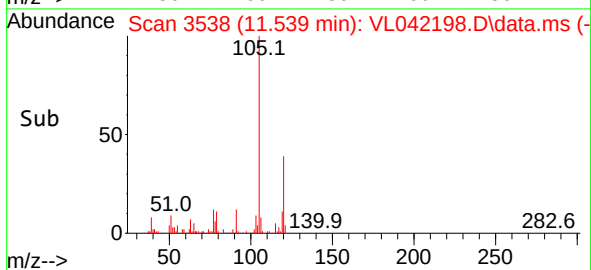
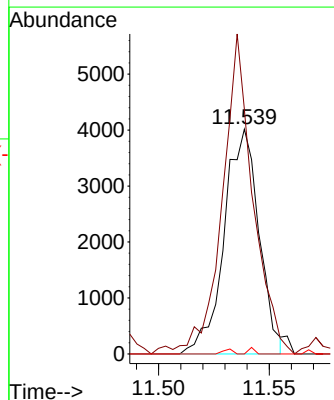
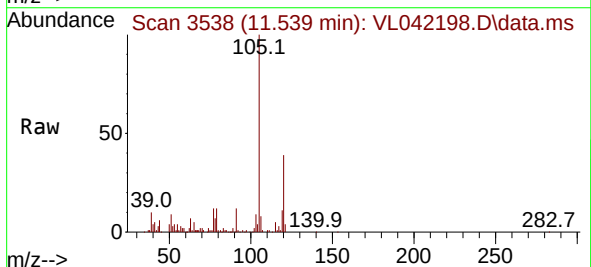
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-1-3262025

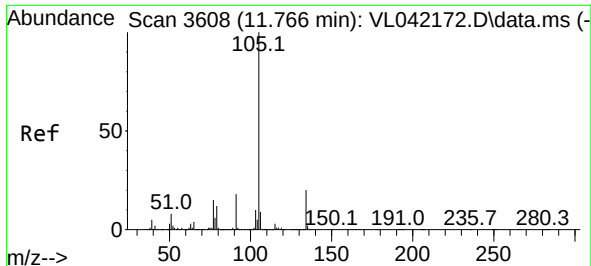
Tgt Ion:120 Resp: 2528  
Ion Ratio Lower Upper  
120 100  
91 712.1 376.9 565.3#



#65  
tert-Butylbenzene  
Concen: 0.049 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.009 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

Tgt Ion:119 Resp: 4406  
Ion Ratio Lower Upper  
119 100  
91 118.3 66.0 99.0#  
134 1.1 16.7 25.1#





#67

sec-Butylbenzene

Concen: 0.032 ppbv

RT: 12.225 min Scan# 3179

Delta R.T. 0.459 min

Lab File: VL042198.D

Acq: 28 Mar 2025 01:57

Instrument :

MSVOA\_1

ClientSampleId :

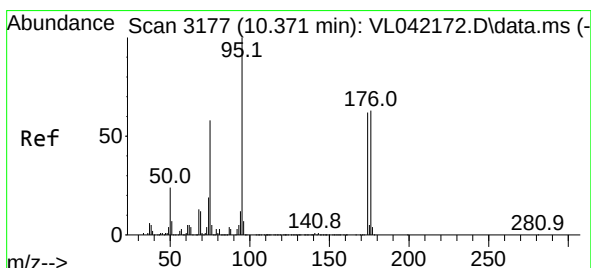
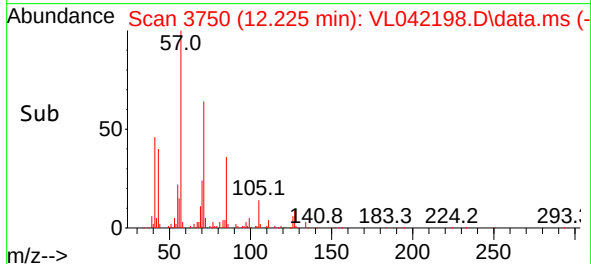
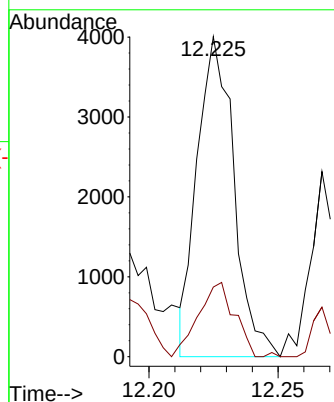
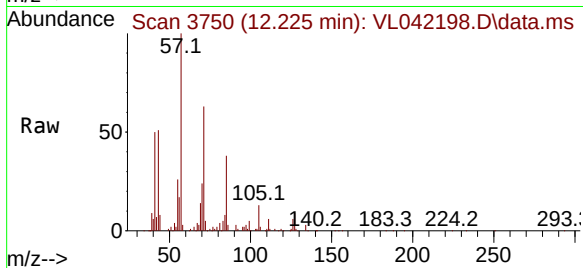
SSSG-B16-1-3262025

Tgt Ion:105 Resp: 3942

Ion Ratio Lower Upper

105 100

134 16.7 15.5 23.3



#68

1-Bromo-4-Fluorobenzene

Concen: 9.997 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.006 min

Lab File: VL042198.D

Acq: 28 Mar 2025 01:57

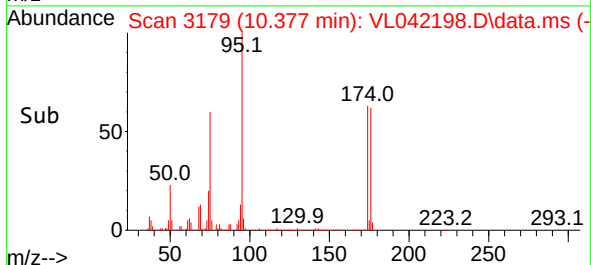
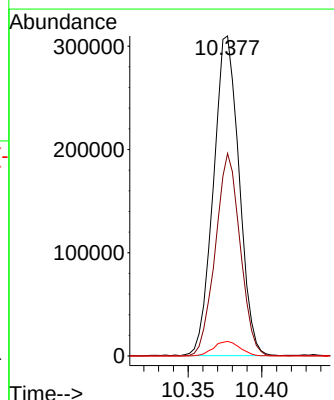
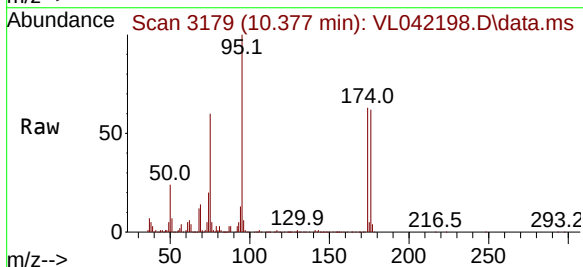
Tgt Ion: 95 Resp: 374920

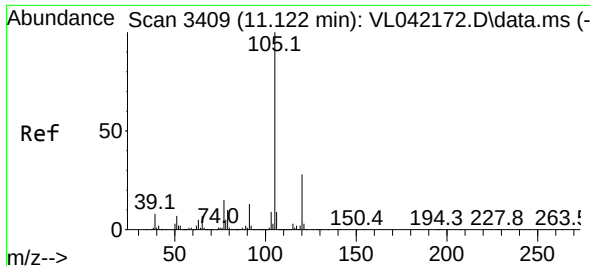
Ion Ratio Lower Upper

95 100

174 61.3 50.6 76.0

175 4.7 3.8 5.6

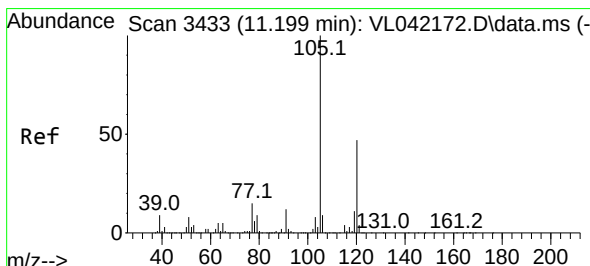
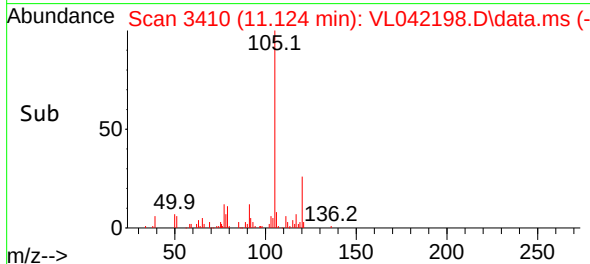
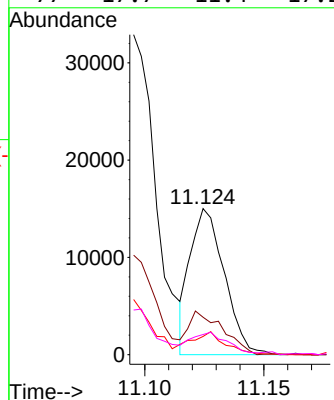
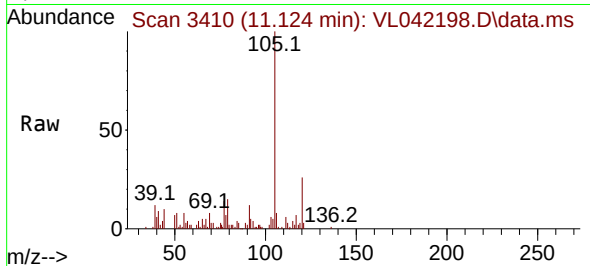




#72  
4-Ethyltoluene  
Concen: 0.185 ppbv  
RT: 11.124 min Scan# 3409  
Delta R.T. 0.003 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

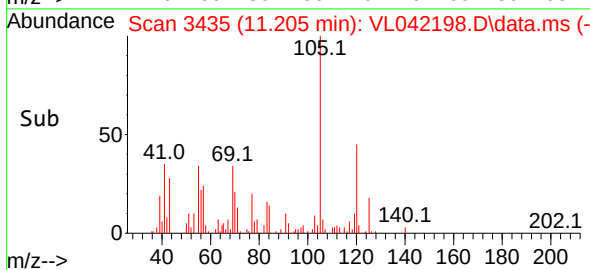
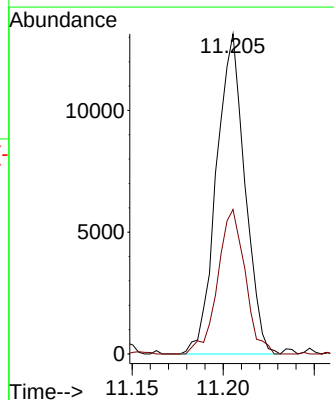
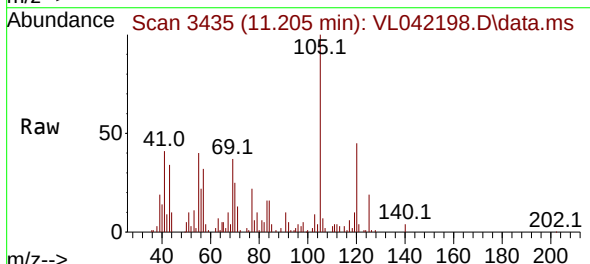
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-1-3262025

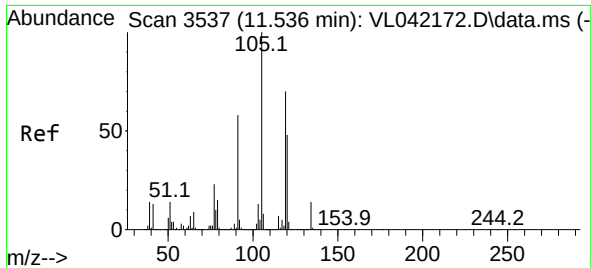
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|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 14976 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 0.0   | 23.4  | 35.0# |
| 91       | 0.0   | 10.3  | 15.5# |
| 77       | 17.7  | 11.4  | 17.2# |



#73  
1,3,5-Trimethylbenzene  
Concen: 0.203 ppbv  
RT: 11.205 min Scan# 3435  
Delta R.T. 0.006 min  
Lab File: VL042198.D  
Acq: 28 Mar 2025 01:57

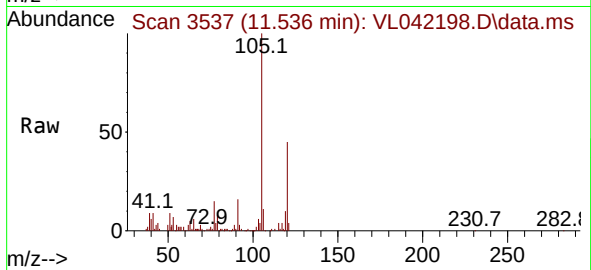
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 14315 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 45.1  | 37.4  | 56.0  |



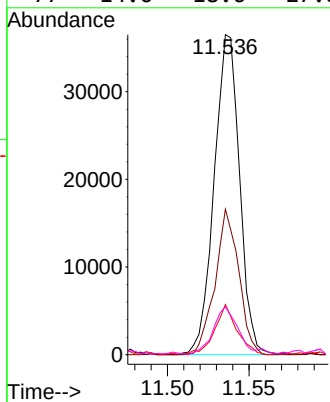
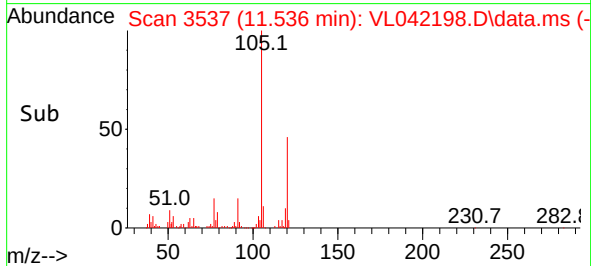


#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.486 ppbv  
 RT: 11.536 min Scan# 31  
 Delta R.T. -0.000 min  
 Lab File: VL042198.D  
 Acq: 28 Mar 2025 01:57

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-B16-1-3262025



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 39507 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 45.4  | 38.6  | 58.0  |
| 91       | 15.4  | 46.2  | 69.2# |
| 77       | 14.6  | 18.6  | 27.8# |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042199.D  
 Acq On : 28 Mar 2025 02:33  
 Operator : SY/MD  
 Sample : Q1669-08  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-B16-2-3262025

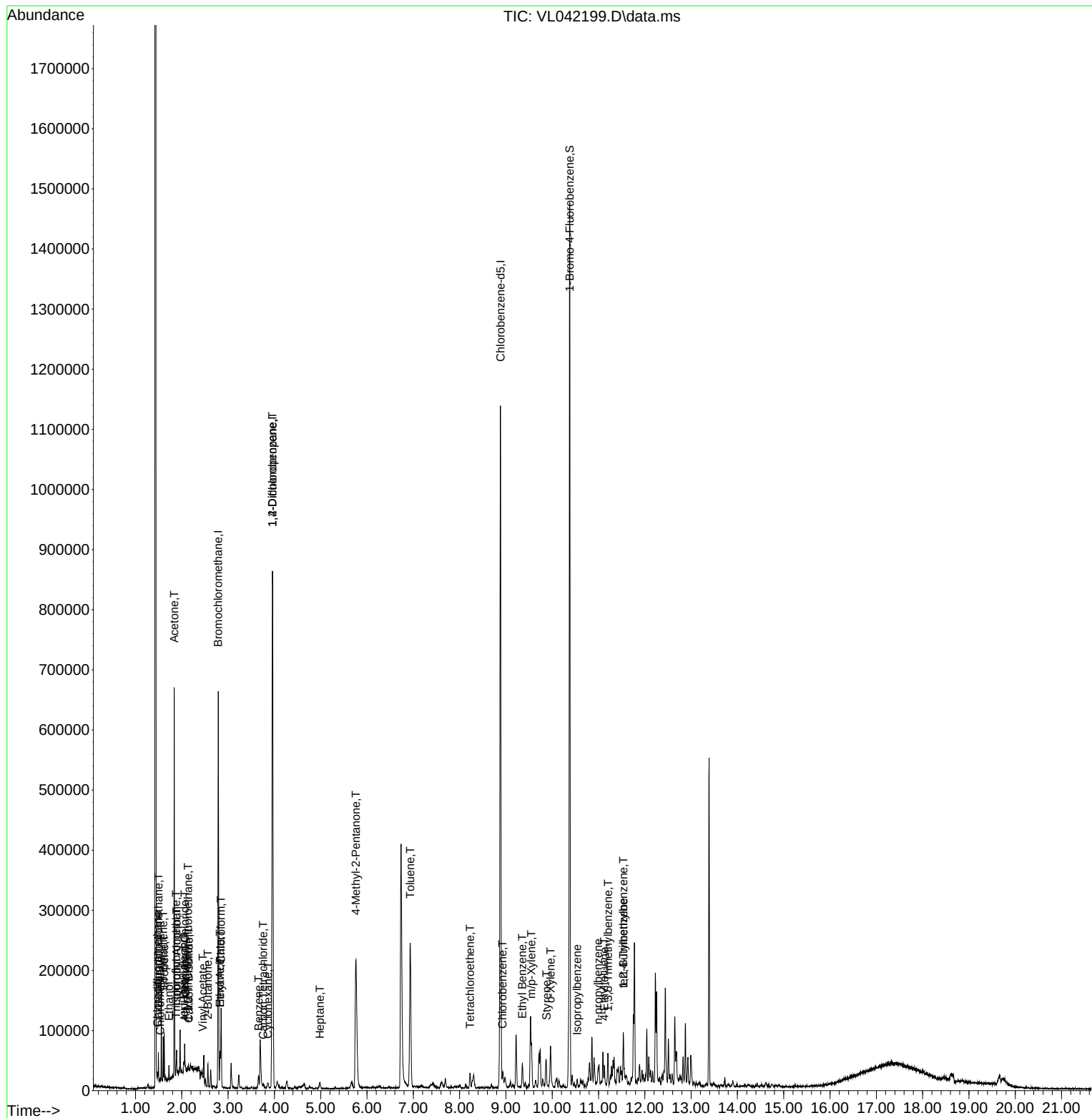
Quant Time: Mar 28 23:04:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 2025  
 Response via : Initial Calibration

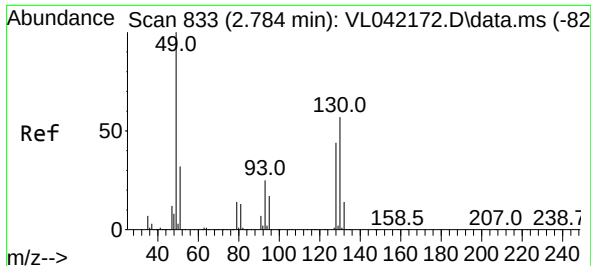
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 181183   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.959  | 114   | 509062   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.882  | 117   | 458107   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 379865   | 10.097   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 101.000% |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.496  | 85    | 11194    | 0.418    | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.473  | 51    | 7603     | 0.278    | ppbv   | 93       |
| 4) Chloromethane              | 1.531  | 50    | 782      | 0.072    | ppbv # | 59       |
| 9) Propene                    | 1.619  | 41    | 8400     | 0.671    | ppbv   | 88       |
| 10) Heptane                   | 4.982  | 43    | 2470     | 0.074    | ppbv # | 54       |
| 11) Trichlorofluoromethane    | 1.878  | 101   | 4706     | 0.181    | ppbv   | 94       |
| 12) 1,1,2-Trichlorotrifluo... | 2.137  | 101   | 1363     | 0.064    | ppbv   | 91       |
| 13) Ethanol                   | 1.722  | 45    | 8952     | 7.560    | ppbv # | 27       |
| 15) Acetone                   | 1.836  | 43    | 272395   | 10.750   | ppbv   | 94       |
| 16) 1,3-Butadiene             | 1.599  | 39    | 7289     | 0.589    | ppbv # | 33       |
| 17) tert-Butyl alcohol        | 2.046  | 59    | 5649     | 0.179    | ppbv # | 71       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 15527    | 1.086    | ppbv # | 1        |
| 20) Methylene Chloride        | 2.062  | 84    | 6239     | 0.661    | ppbv   | 92       |
| 21) Allyl Chloride            | 2.078  | 41    | 865      | 0.048    | ppbv # | 59       |
| 23) Vinyl Acetate             | 2.454  | 43    | 1458     | 0.133    | ppbv # | 76       |
| 25) Ethyl Acetate             | 2.826  | 43    | 12939    | 0.197    | ppbv # | 91       |
| 26) Hexane                    | 2.826  | 57    | 14117    | 0.556    | ppbv # | 40       |
| 27) Carbon Disulfide          | 2.149  | 76    | 1385     | 0.051    | ppbv # | 44       |
| 29) Chloroform                | 2.849  | 83    | 47910    | 1.289    | ppbv   | 97       |
| 30) Cyclohexane               | 3.858  | 84    | 1524     | 0.069    | ppbv # | 18       |
| 34) 2-Butanone                | 2.564  | 43    | 23343    | 0.632    | ppbv   | 95       |
| 35) Carbon Tetrachloride      | 3.758  | 117   | 1195     | 0.030    | ppbv # | 60       |
| 36) Benzene                   | 3.658  | 78    | 11929    | 0.236    | ppbv   | 98       |
| 39) 1,2-Dichloropropane       | 3.959  | 63    | 131902   | 7.177    | ppbv # | 23       |
| 50) 4-Methyl-2-Pentanone      | 5.762  | 43    | 196564   | 3.360    | ppbv   | 97       |
| 52) Tetrachloroethene         | 8.225  | 164   | 3844     | 0.192    | ppbv   | 85       |
| 53) Toluene                   | 6.933  | 91    | 171948   | 2.874    | ppbv   | 100      |
| 57) Chlorobenzene             | 8.927  | 112   | 1488     | 0.034    | ppbv # | 80       |
| 58) Ethyl Benzene             | 9.354  | 91    | 20640    | 0.254    | ppbv   | 90       |
| 59) m/p-Xylene                | 9.548  | 91    | 21772    | 0.335    | ppbv # | 31       |
| 60) o-Xylene                  | 9.966  | 91    | 29151    | 0.448    | ppbv   | 100      |
| 61) Styrene                   | 9.875  | 104   | 11979    | 0.372    | ppbv   | 96       |
| 62) Isopropylbenzene          | 10.536 | 105   | 5968     | 0.061    | ppbv   | 98       |
| 64) n-propylbenzene           | 10.989 | 120   | 2419     | 0.096    | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.536 | 119   | 2907     | 0.032    | ppbv # | 30       |
| 72) 4-Ethyltoluene            | 11.125 | 105   | 10586    | 0.131    | ppbv # | 89       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105   | 9797     | 0.138    | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105   | 25878    | 0.317    | ppbv # | 69       |

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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
SSSG-B16-2-3262025

Quant Time: Mar 28 23:04:14 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration

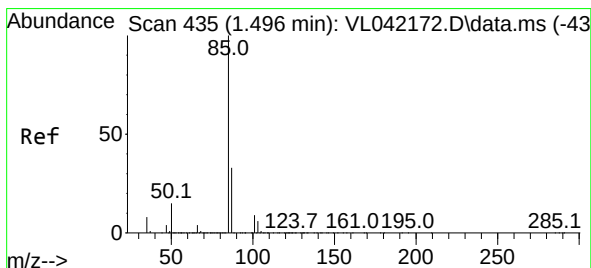
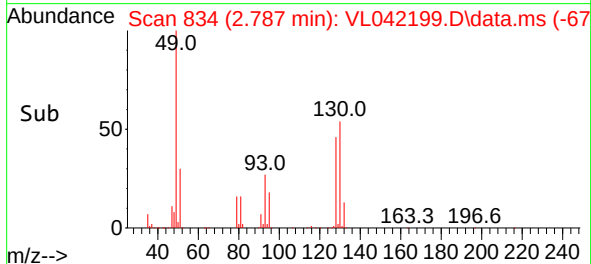
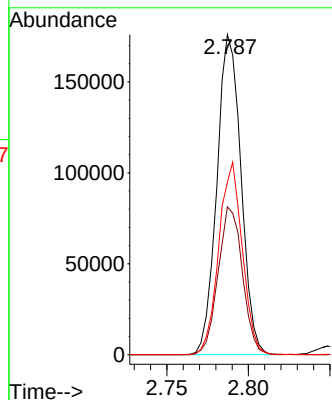
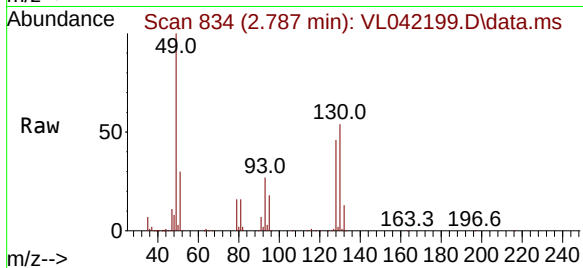




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

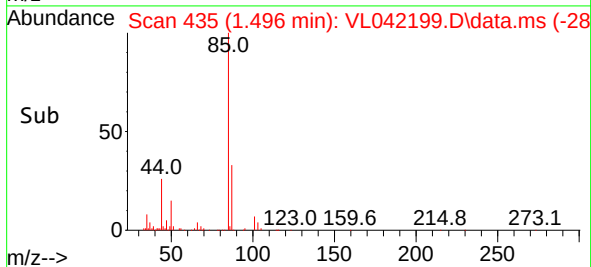
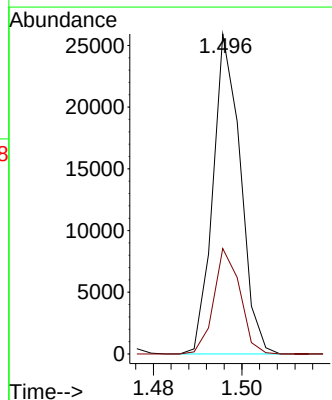
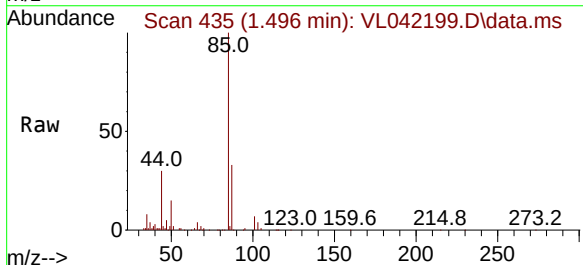
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

Tgt Ion: 49 Resp: 181183  
Ion Ratio Lower Upper  
49 100  
128 46.5 22.9 68.5  
130 58.6 28.8 86.4

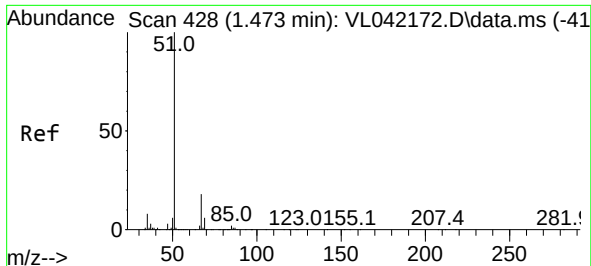


#2  
Dichlorodifluoromethane  
Concen: 0.418 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 85 Resp: 11194  
Ion Ratio Lower Upper  
85 100  
87 32.9 26.1 39.1



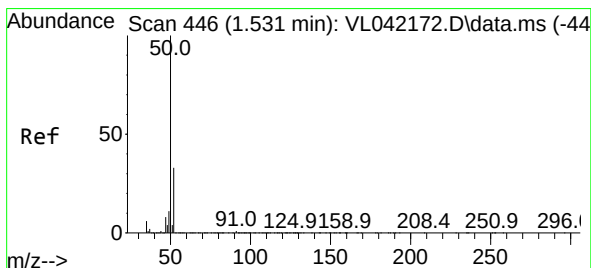
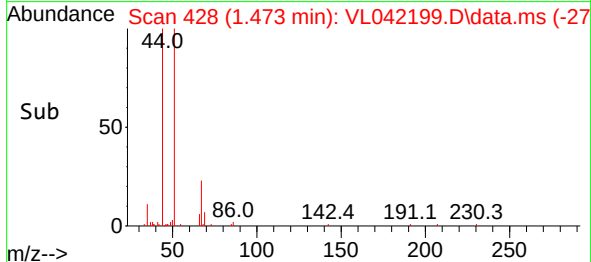
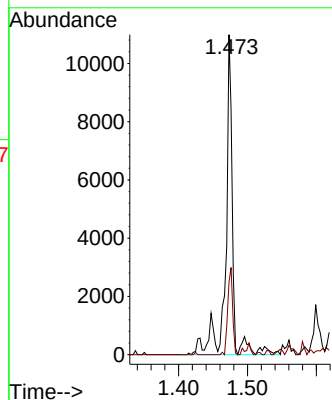
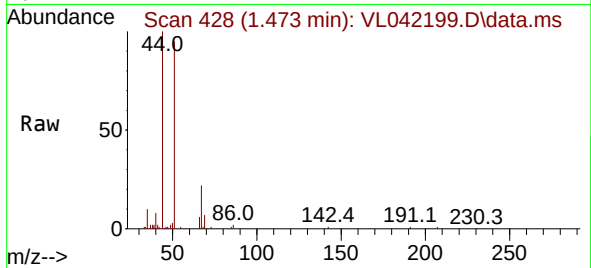




#3  
Chlorodifluoromethane  
Concen: 0.278 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

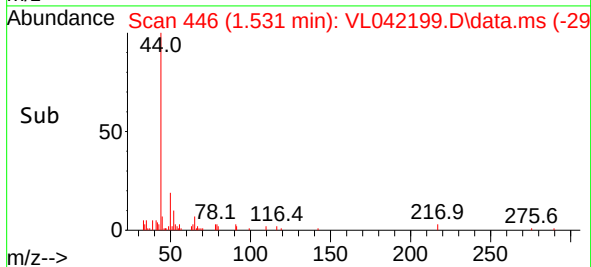
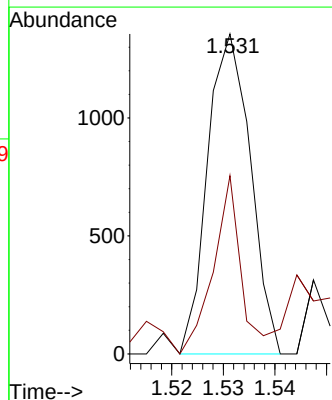
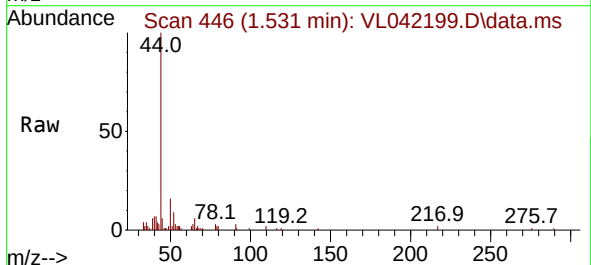
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

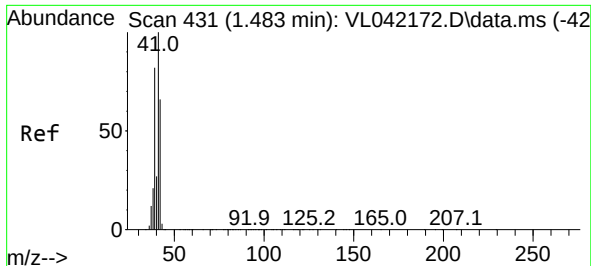
Tgt Ion: 51 Resp: 7603  
Ion Ratio Lower Upper  
51 100  
67 22.1 15.0 22.6



#4  
Chloromethane  
Concen: 0.072 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 50 Resp: 782  
Ion Ratio Lower Upper  
50 100  
52 55.7 26.1 39.1#

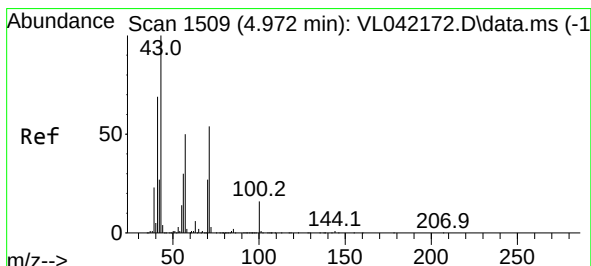
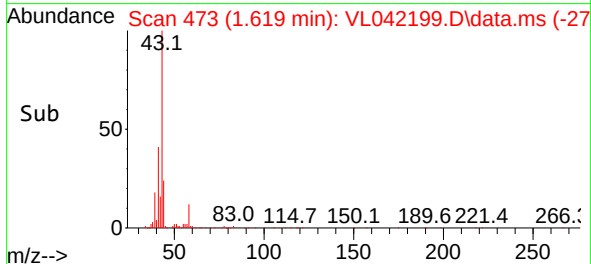
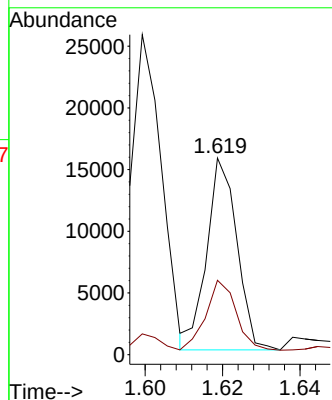
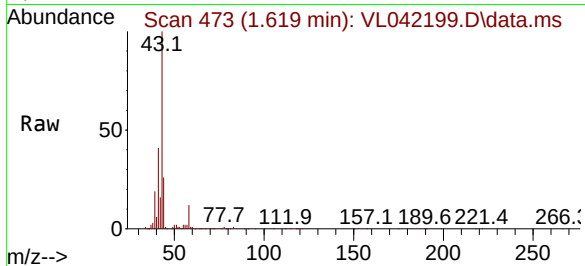




#9  
Propene  
Concen: 0.671 ppbv  
RT: 1.619 min Scan# 41  
Delta R.T. 0.136 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

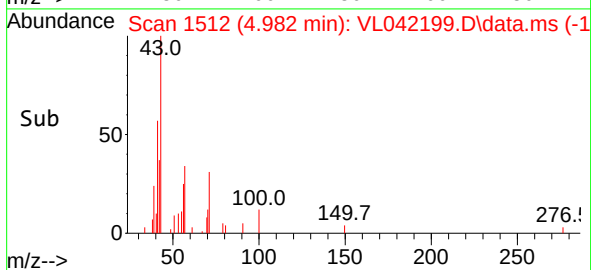
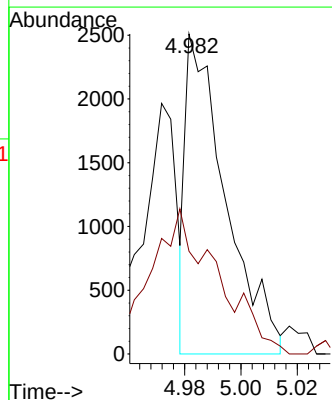
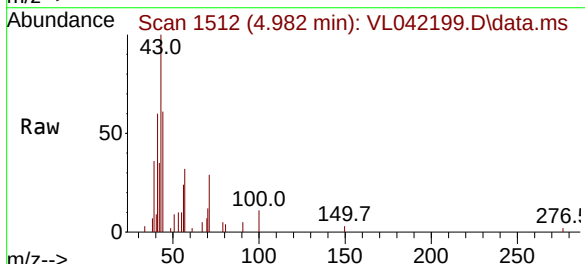
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MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

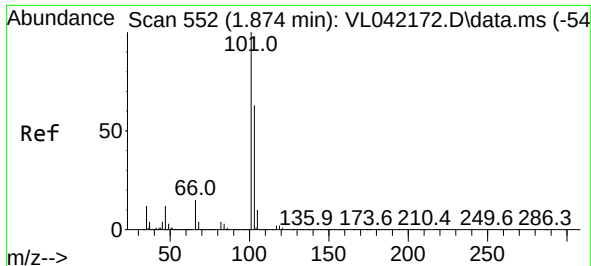
Tgt Ion: 41 Resp: 8400  
Ion Ratio Lower Upper  
41 100  
42 59.2 55.4 83.2



#10  
Heptane  
Concen: 0.074 ppbv  
RT: 4.982 min Scan# 1512  
Delta R.T. 0.010 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 43 Resp: 2470  
Ion Ratio Lower Upper  
43 100  
57 80.9 39.4 59.2#

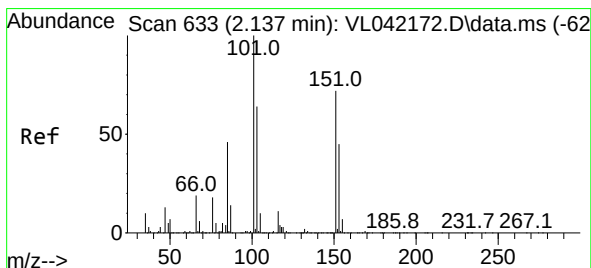
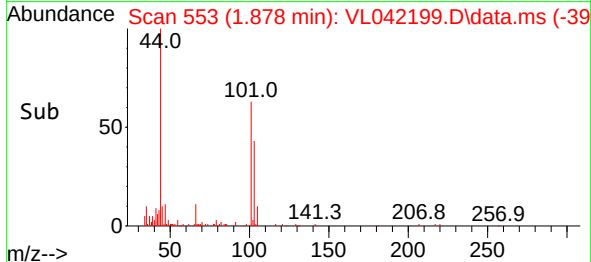
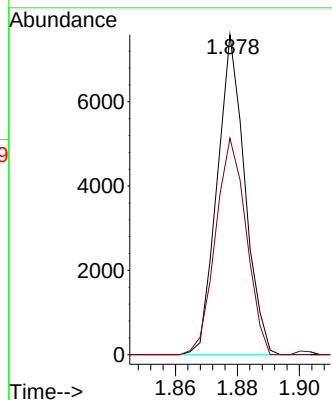
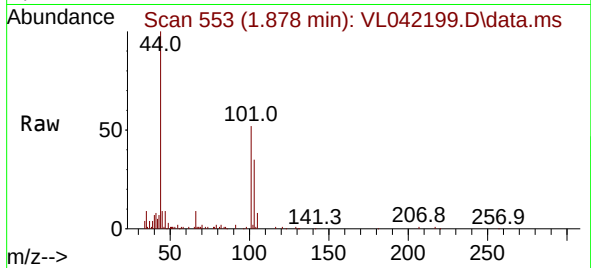




#11  
 Trichlorofluoromethane  
 Concen: 0.181 ppbv  
 RT: 1.878 min Scan# 511  
 Delta R.T. 0.003 min  
 Lab File: VL042199.D  
 Acq: 28 Mar 2025 02:33

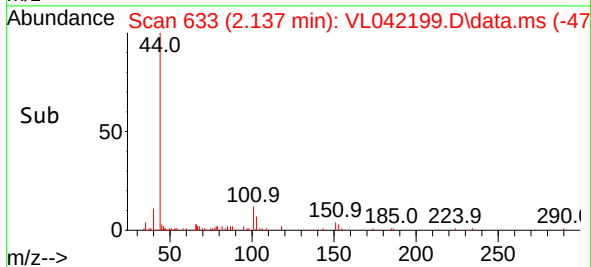
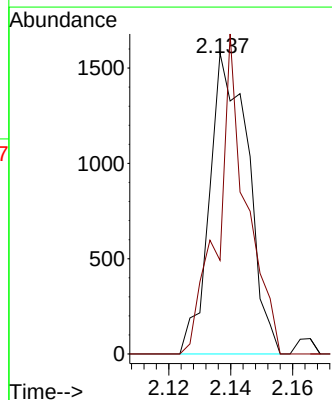
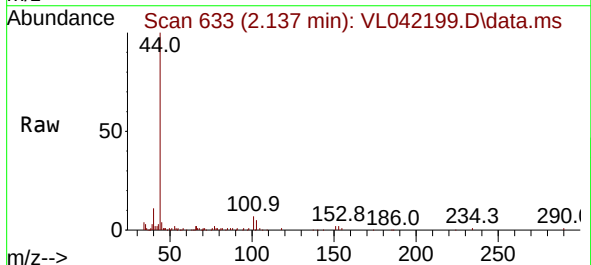
Instrument :  
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 ClientSampleId :  
 SSSG-B16-2-3262025

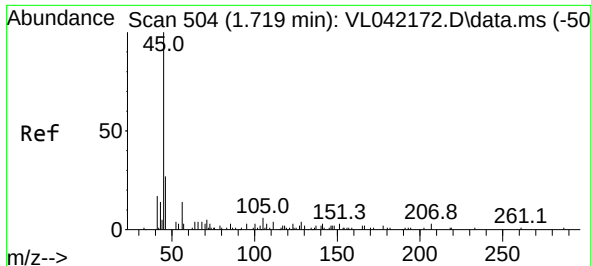
Tgt Ion:101 Resp: 4706  
 Ion Ratio Lower Upper  
 101 100  
 103 67.6 50.2 75.2



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.064 ppbv  
 RT: 2.137 min Scan# 633  
 Delta R.T. -0.000 min  
 Lab File: VL042199.D  
 Acq: 28 Mar 2025 02:33

Tgt Ion:101 Resp: 1363  
 Ion Ratio Lower Upper  
 101 100  
 151 78.6 57.1 85.7

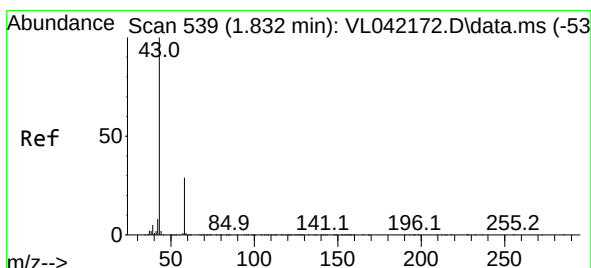
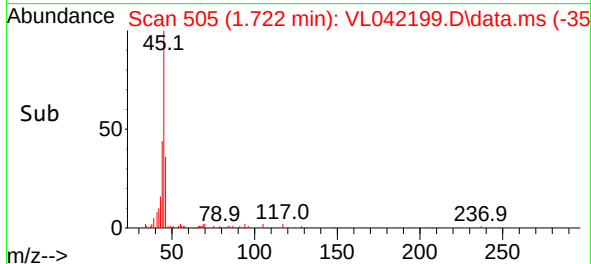
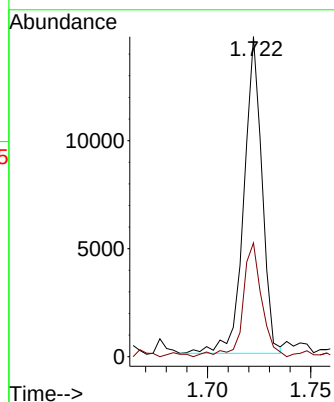
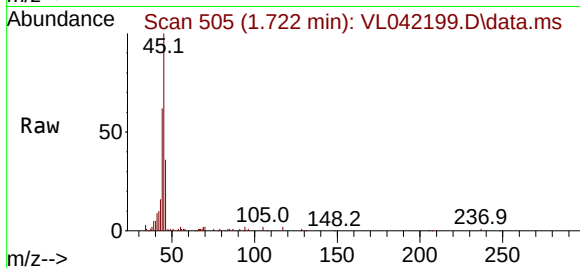




#13  
Ethanol  
Concen: 7.560 ppbv  
RT: 1.722 min Scan# 50  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

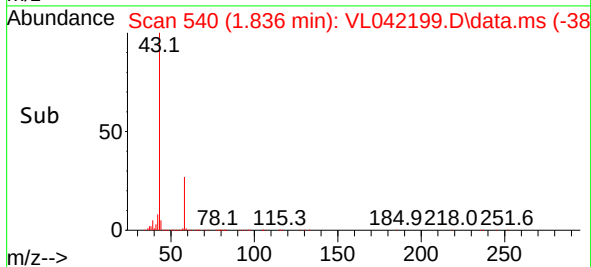
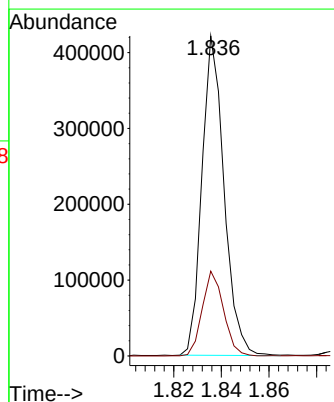
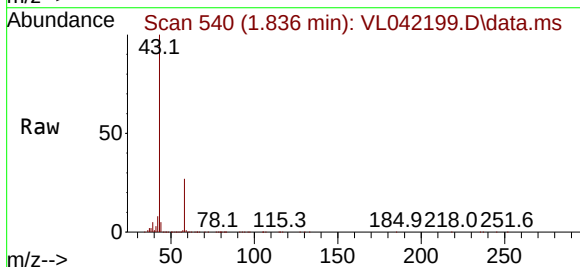
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-2-3262025

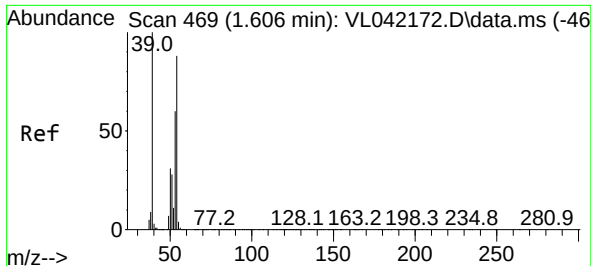
Tgt Ion: 45 Resp: 8952  
Ion Ratio Lower Upper  
45 100  
46 0.0 20.2 80.8#



#15  
Acetone  
Concen: 10.750 ppbv  
RT: 1.836 min Scan# 540  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 43 Resp: 272395  
Ion Ratio Lower Upper  
43 100  
58 25.7 23.2 34.8

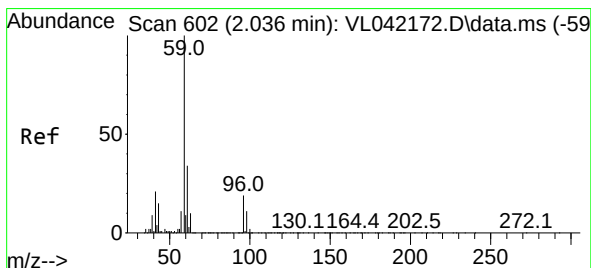
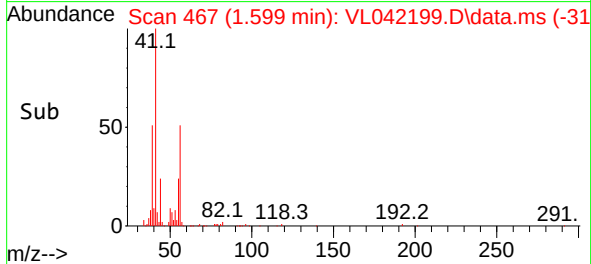
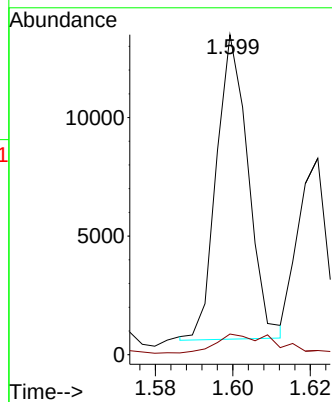
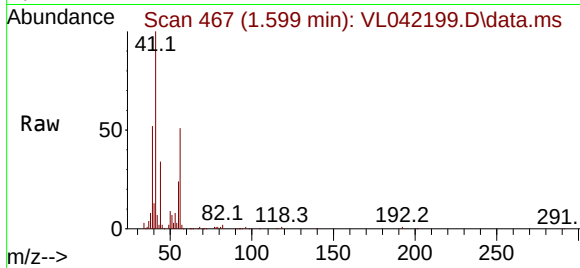




#16  
1,3-Butadiene  
Concen: 0.589 ppbv  
RT: 1.599 min Scan# 41  
Delta R.T. -0.007 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

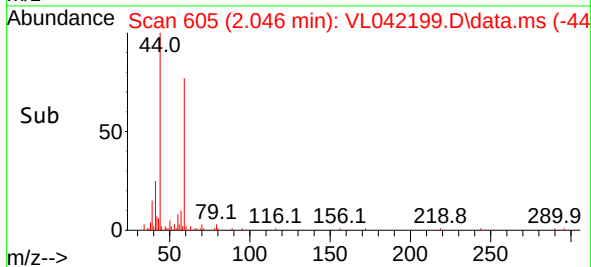
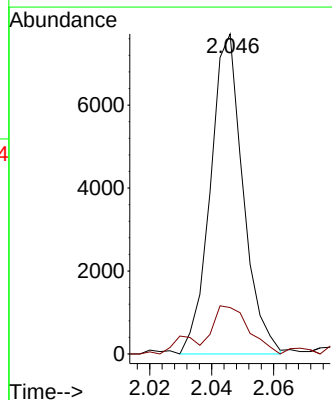
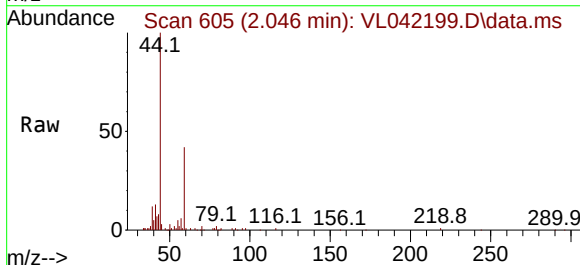
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

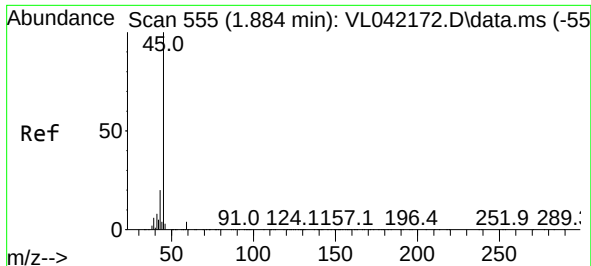
Tgt Ion: 39 Resp: 7289  
Ion Ratio Lower Upper  
39 100  
54 18.2 60.7 91.1#



#17  
tert-Butyl alcohol  
Concen: 0.179 ppbv  
RT: 2.046 min Scan# 605  
Delta R.T. 0.010 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 59 Resp: 5649  
Ion Ratio Lower Upper  
59 100  
57 22.0 8.9 13.3#

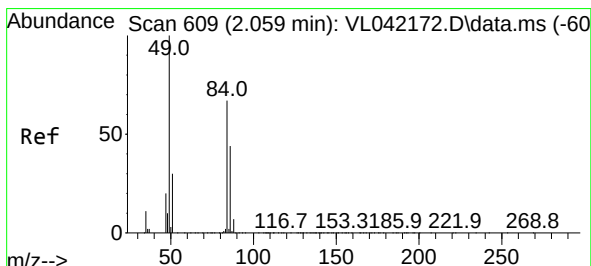
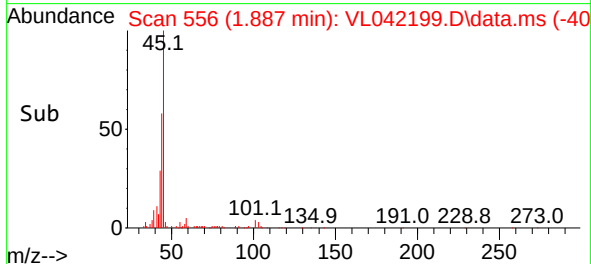
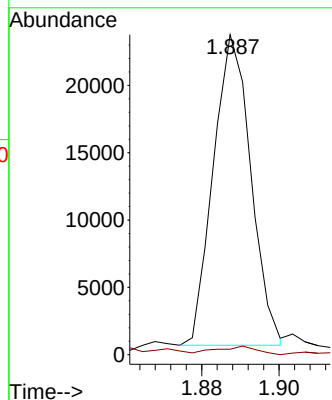
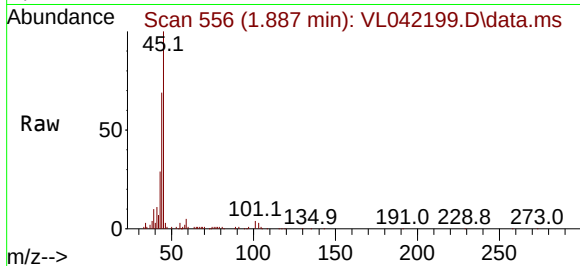




#19  
Isopropyl Alcohol  
Concen: 1.086 ppbv  
RT: 1.887 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

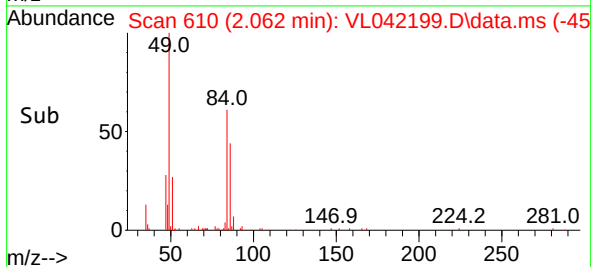
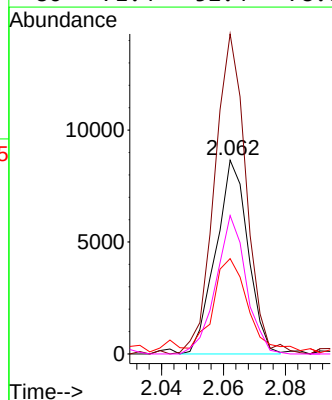
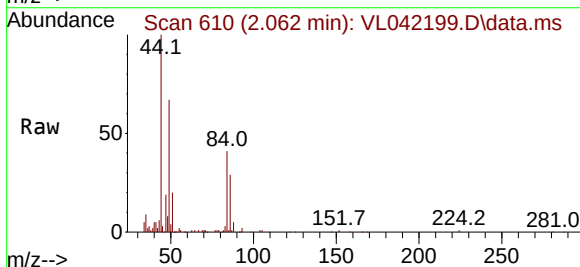
Instrument :  
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ClientSampleId :  
SSSG-B16-2-3262025

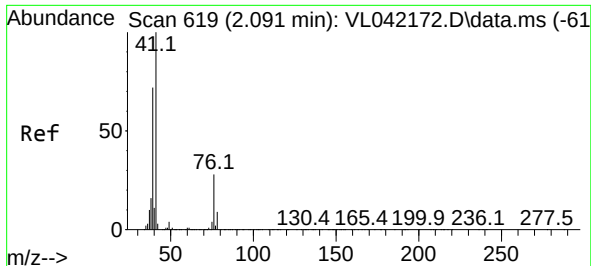
Tgt Ion: 45 Resp: 15527  
Ion Ratio Lower Upper  
45 100  
58 454.8 36.9 55.3#



#20  
Methylene Chloride  
Concen: 0.661 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 84 Resp: 6239  
Ion Ratio Lower Upper  
84 100  
49 164.3 120.2 180.4  
51 46.0 37.4 56.0  
86 71.4 52.4 78.6

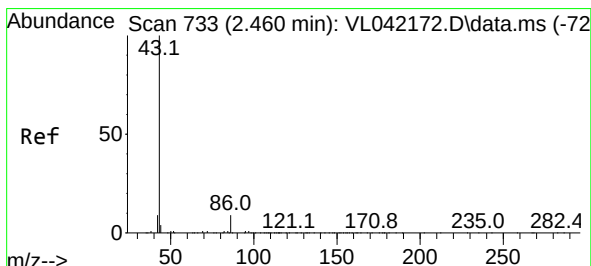
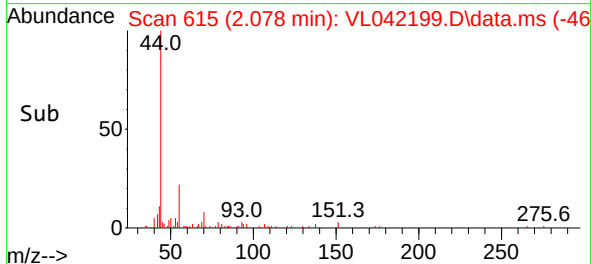
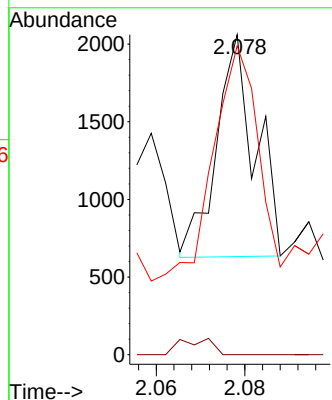
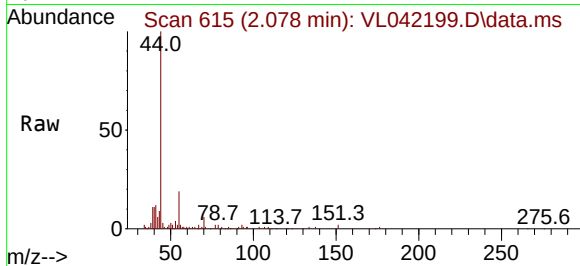




#21  
 Allyl Chloride  
 Concen: 0.048 ppbv  
 RT: 2.078 min Scan# 61  
 Delta R.T. -0.013 min  
 Lab File: VL042199.D  
 Acq: 28 Mar 2025 02:33

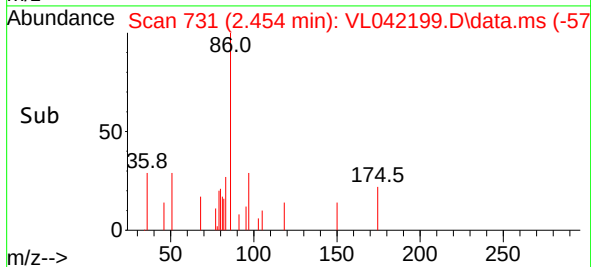
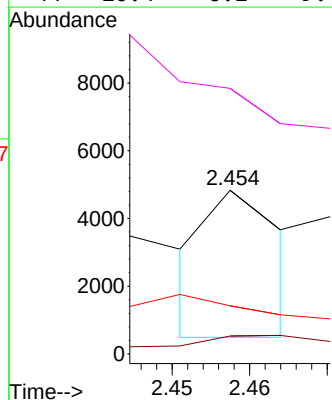
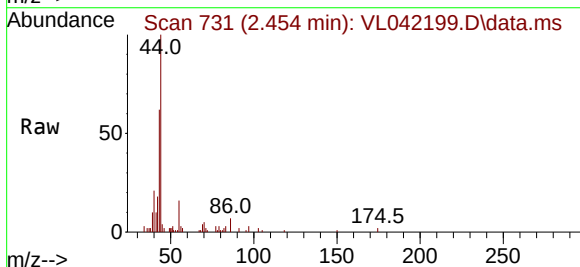
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-B16-2-3262025

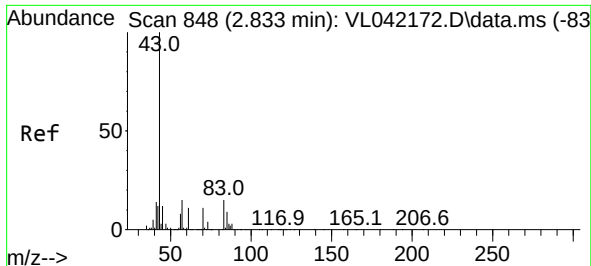
|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 41 | Resp: | 865        |
| Ion Ratio   | Lower | Upper      |
| 41          | 100   |            |
| 76          | 0.0   | 24.1 36.1# |
| 39          | 107.3 | 61.1 91.7# |



#23  
 Vinyl Acetate  
 Concen: 0.133 ppbv  
 RT: 2.454 min Scan# 731  
 Delta R.T. -0.007 min  
 Lab File: VL042199.D  
 Acq: 28 Mar 2025 02:33

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 43 | Resp: | 1458      |
| Ion Ratio   | Lower | Upper     |
| 43          | 100   |           |
| 86          | 17.1  | 5.5 8.3#  |
| 42          | 15.4  | 8.6 13.0# |
| 44          | 20.4  | 6.2 9.4#  |

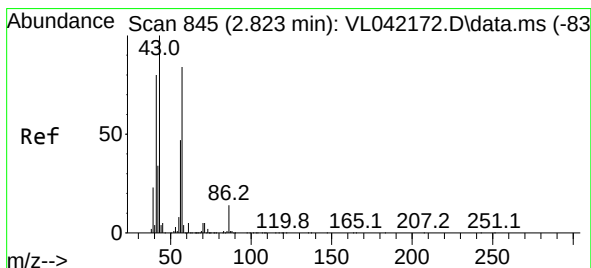
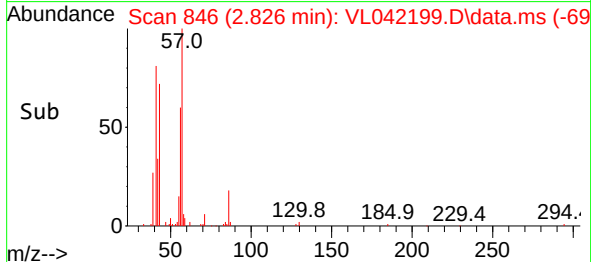
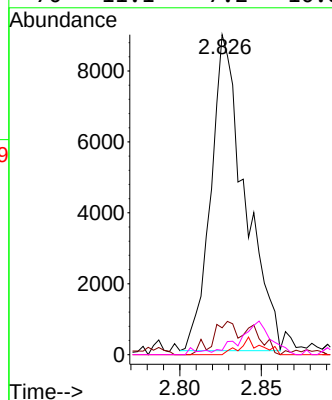
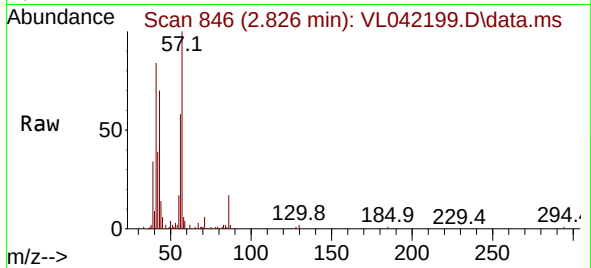




#25  
Ethyl Acetate  
Concen: 0.197 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.007 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

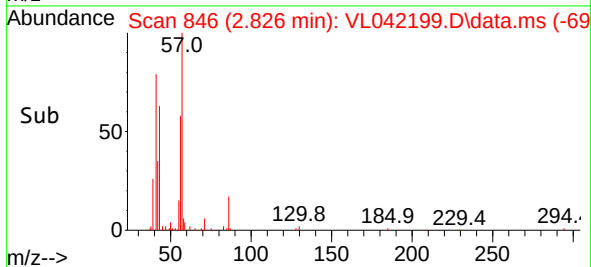
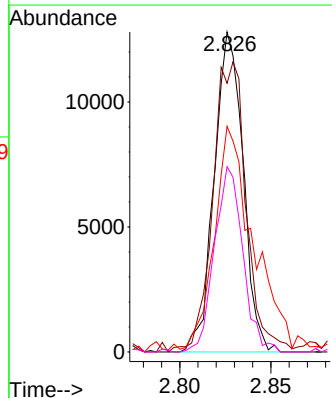
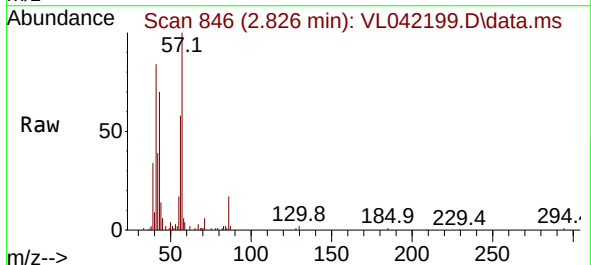
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 12939 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 12.5     | 8.2 12.2#   |
| 61 3.3      | 7.3 10.9#   |
| 70 11.1     | 7.2 10.8#   |

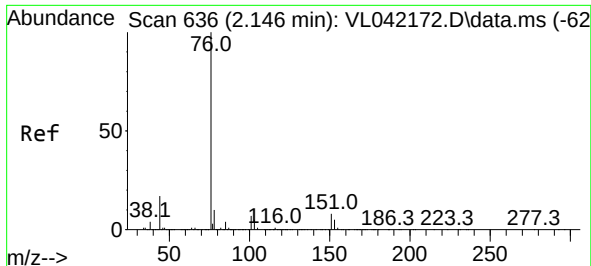


#26  
Hexane  
Concen: 0.556 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 14117  |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 107.0    | 76.6 114.8   |
| 43 100.8    | 207.8 311.8# |
| 56 57.0     | 43.6 65.4    |



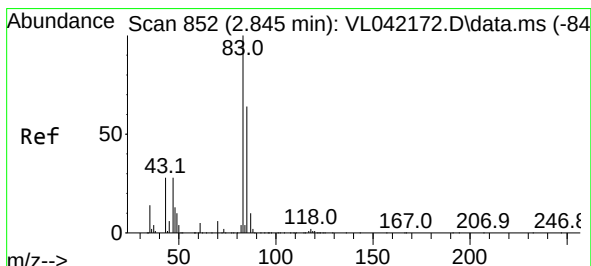
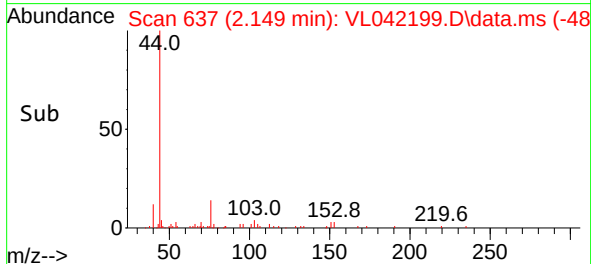
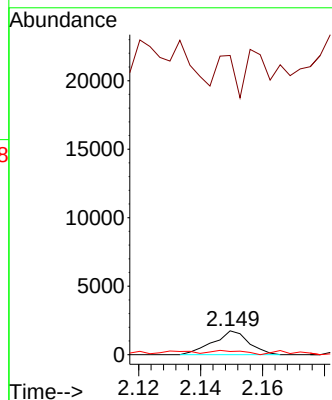
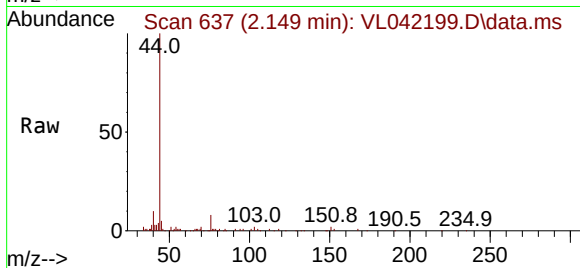




#27  
Carbon Disulfide  
Concen: 0.051 ppbv  
RT: 2.149 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

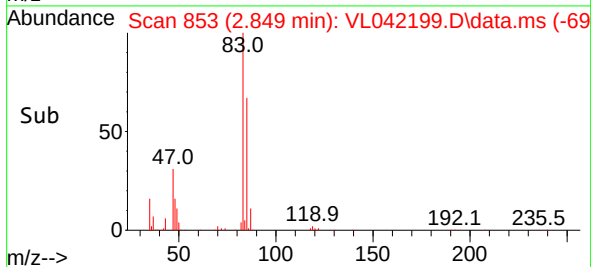
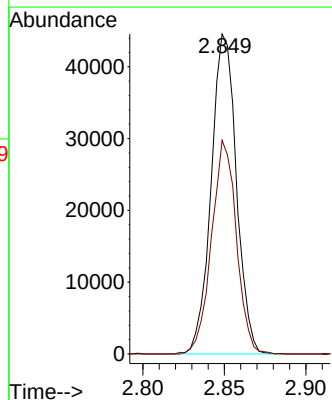
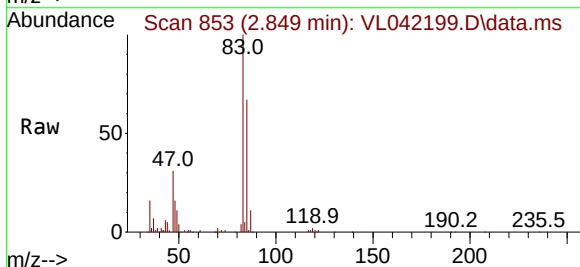
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

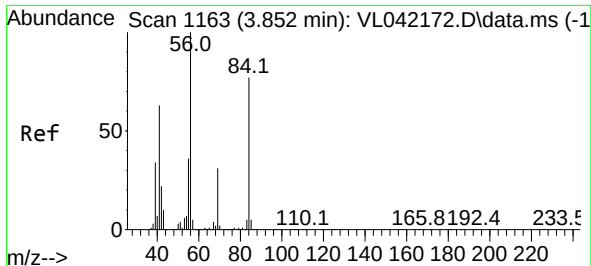
Tgt Ion: 76 Resp: 1385  
Ion Ratio Lower Upper  
76 100  
44 0.0 14.7 22.1#  
78 42.5 9.3 13.9#



#29  
Chloroform  
Concen: 1.289 ppbv  
RT: 2.849 min Scan# 853  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 83 Resp: 47910  
Ion Ratio Lower Upper  
83 100  
85 66.6 51.4 77.2

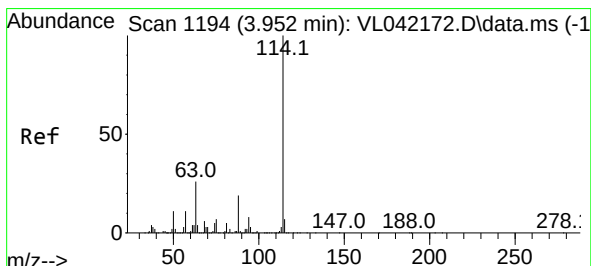
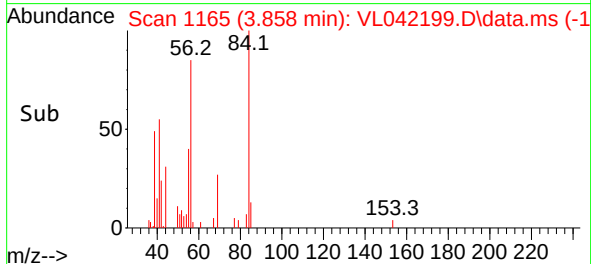
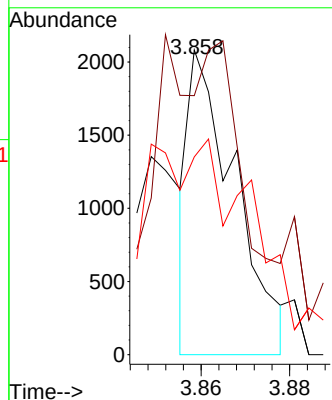
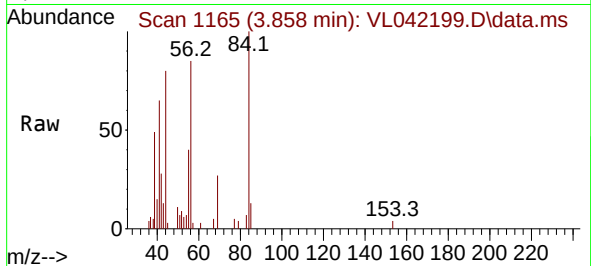




#30  
Cyclohexane  
Concen: 0.069 ppbv  
RT: 3.858 min Scan# 1163  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

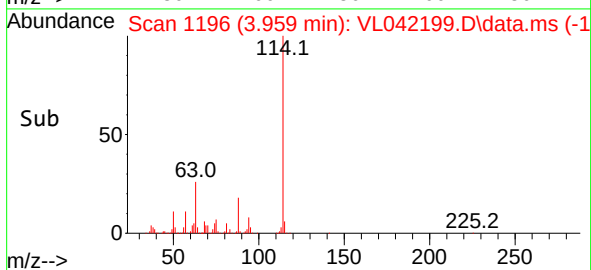
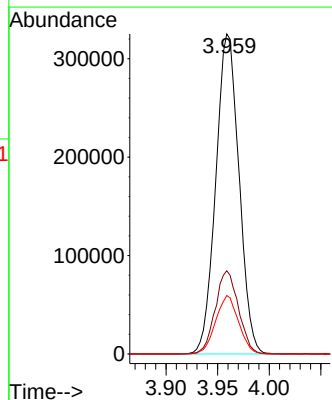
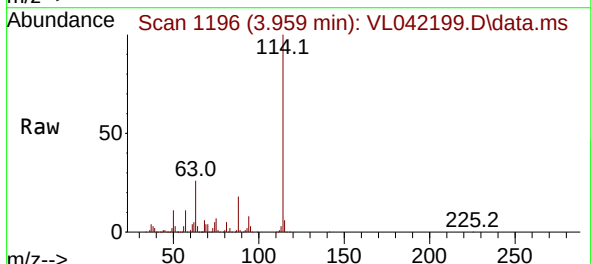
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

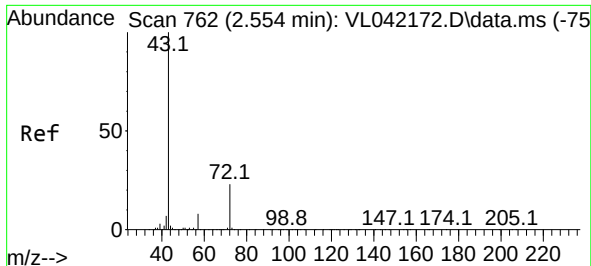
Tgt Ion: 84 Resp: 1524  
Ion Ratio Lower Upper  
84 100  
56 0.0 102.8 154.2#  
41 115.6 66.5 99.7#



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 114 Resp: 509062  
Ion Ratio Lower Upper  
114 100  
63 25.9 20.7 31.1  
88 18.0 15.0 22.4

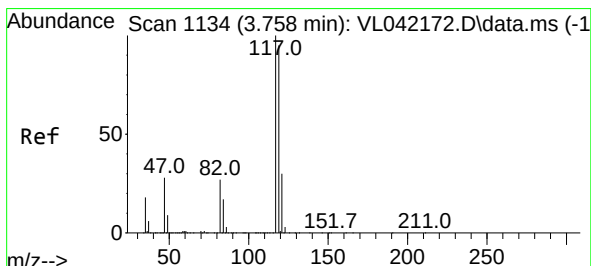
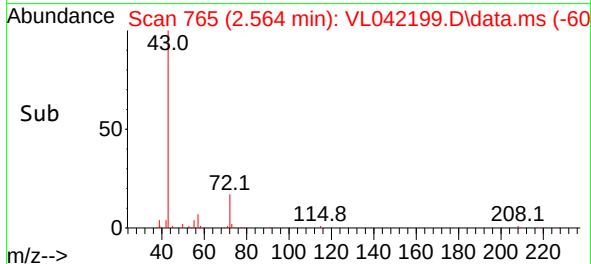
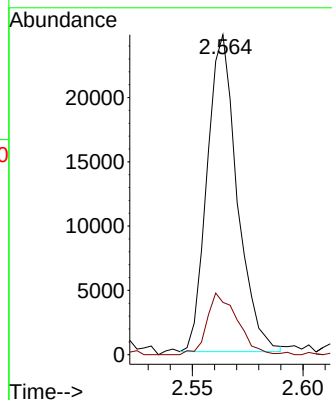
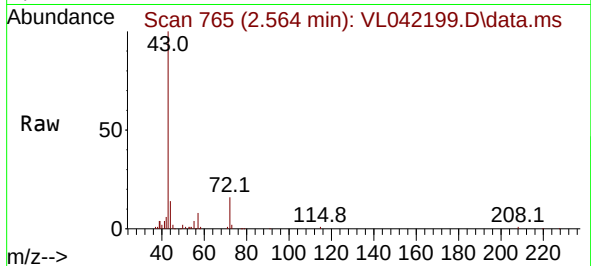




#34  
2-Butanone  
Concen: 0.632 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.010 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

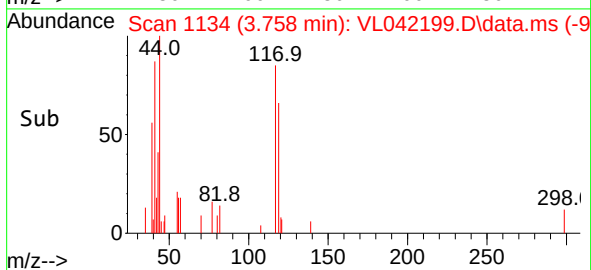
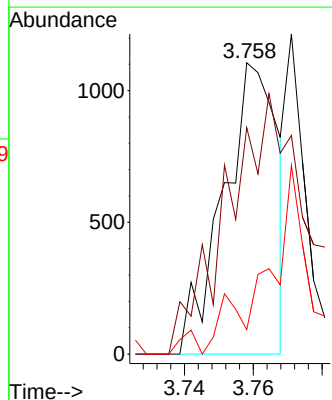
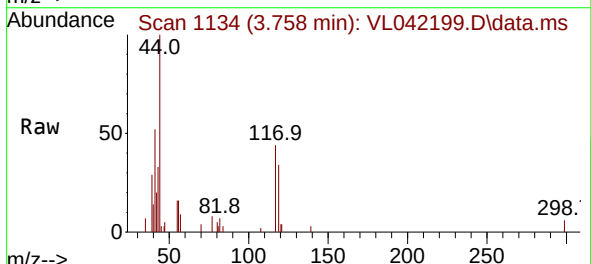
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

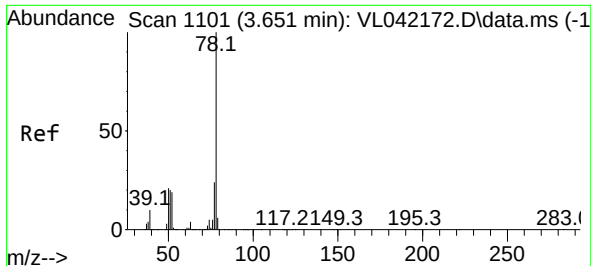
Tgt Ion: 43 Resp: 23343  
Ion Ratio Lower Upper  
43 100  
72 20.2 18.2 27.2



#35  
Carbon Tetrachloride  
Concen: 0.030 ppbv  
RT: 3.758 min Scan# 1134  
Delta R.T. -0.000 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 117 Resp: 1195  
Ion Ratio Lower Upper  
117 100  
119 59.7 76.2 114.2#  
121 3.4 24.2 36.4#

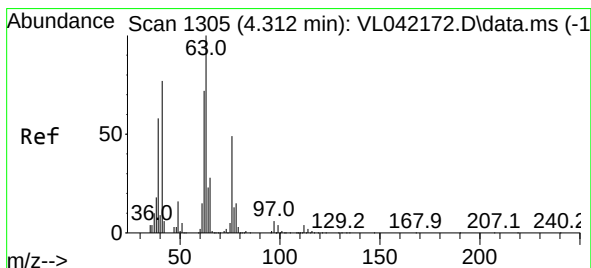
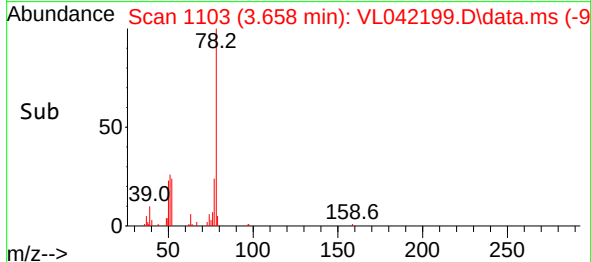
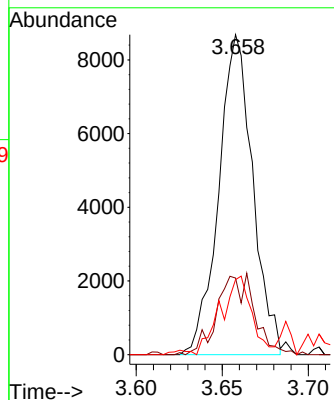
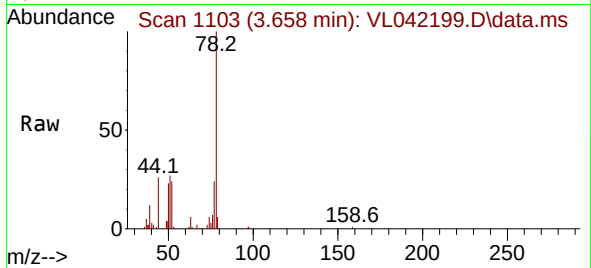




#36  
Benzene  
Concen: 0.236 ppbv  
RT: 3.658 min Scan# 1103  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

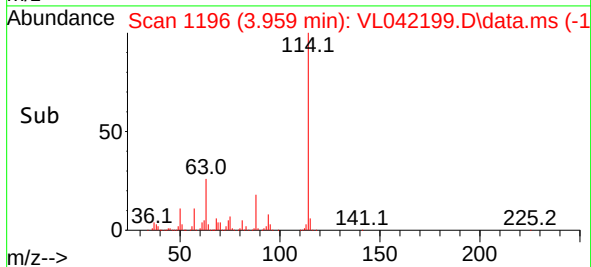
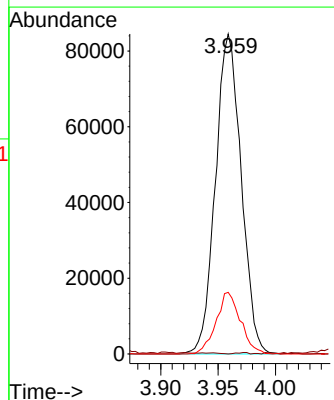
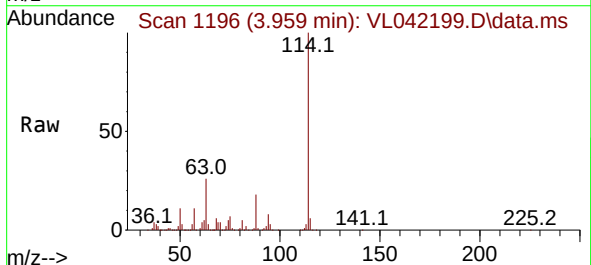
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-2-3262025

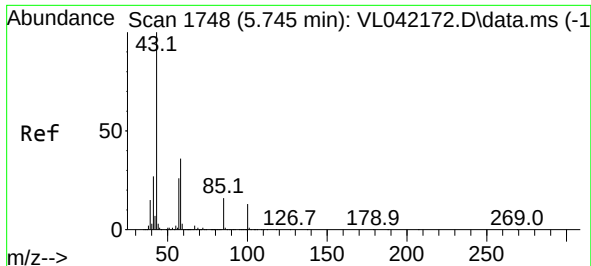
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 78    | Resp: | 11929 |
| Ion      | Ratio | Lower | Upper |
| 78       | 100   |       |       |
| 77       | 23.3  | 19.1  | 28.7  |
| 50       | 22.0  | 16.6  | 24.8  |



#39  
1,2-Dichloropropane  
Concen: 7.177 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. -0.353 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 131902 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 41       | 0.0   | 61.7  | 92.5#  |
| 62       | 19.2  | 57.6  | 86.4#  |

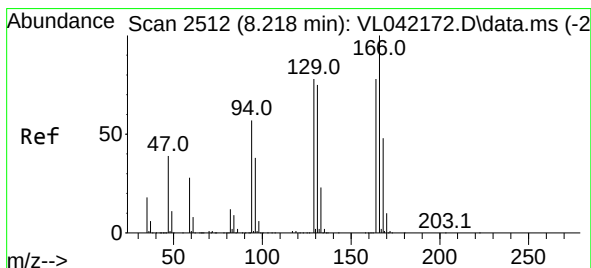
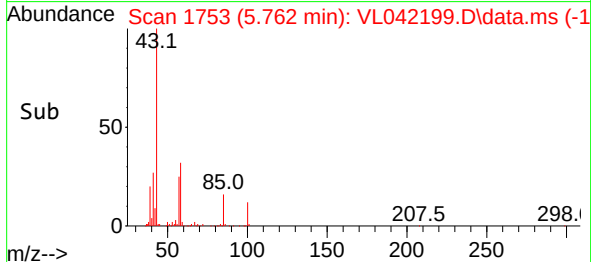
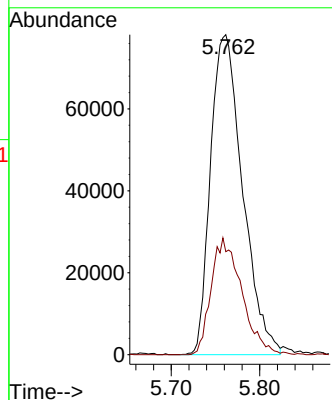
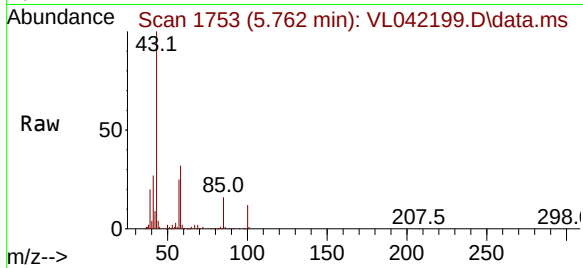




#50  
4-Methyl-2-Pentanone  
Concen: 3.360 ppbv  
RT: 5.762 min Scan# 1753  
Delta R.T. 0.016 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

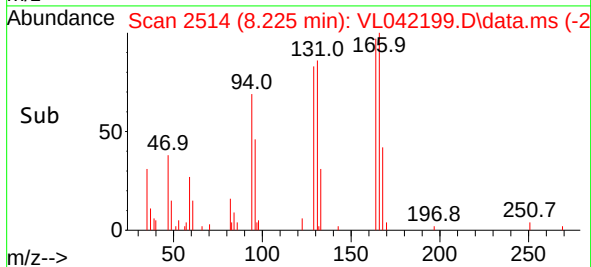
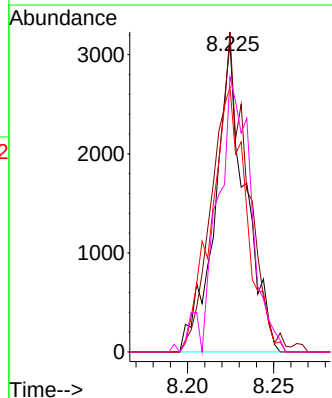
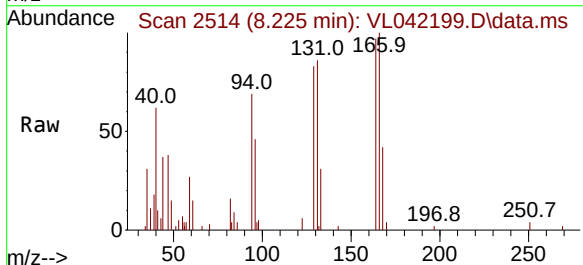
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

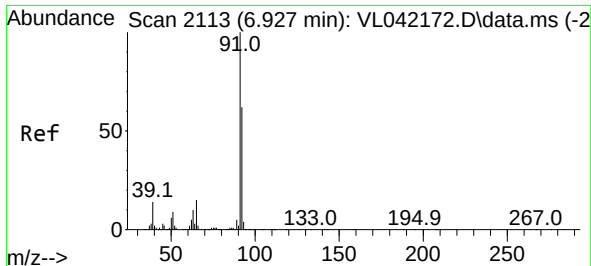
Tgt Ion: 43 Resp: 196564  
Ion Ratio Lower Upper  
43 100  
58 34.8 29.0 43.6



#52  
Tetrachloroethene  
Concen: 0.192 ppbv  
RT: 8.225 min Scan# 2514  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 164 Resp: 3844  
Ion Ratio Lower Upper  
164 100  
166 103.6 102.5 153.7  
129 85.8 79.8 119.8  
131 88.9 76.6 114.8

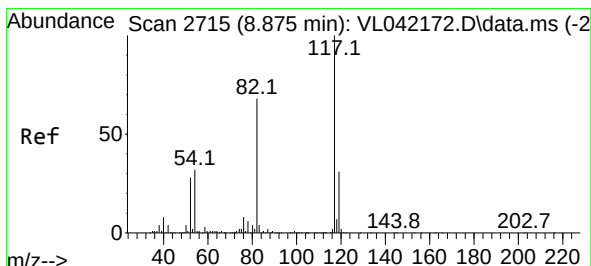
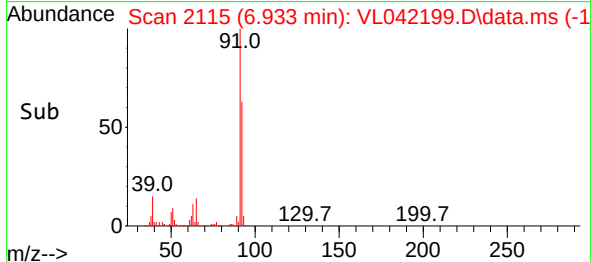
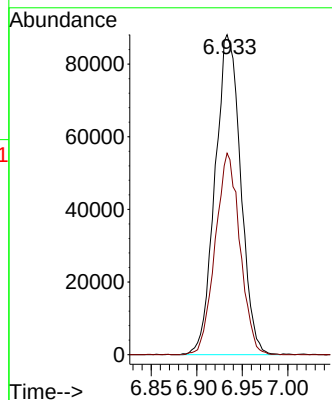
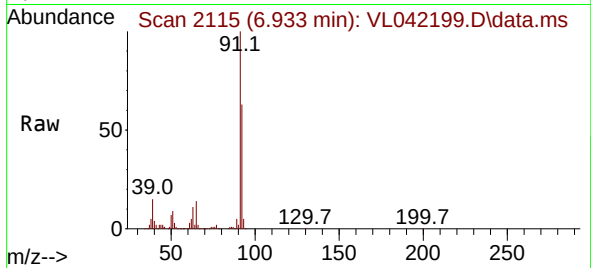




#53  
Toluene  
Concen: 2.874 ppbv  
RT: 6.933 min Scan# 2113  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

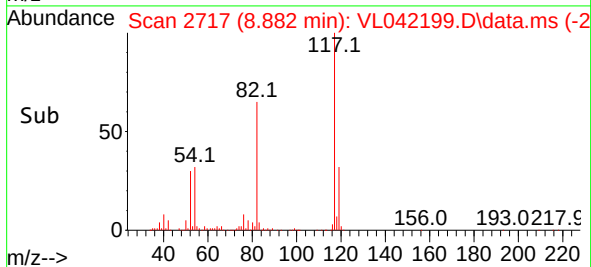
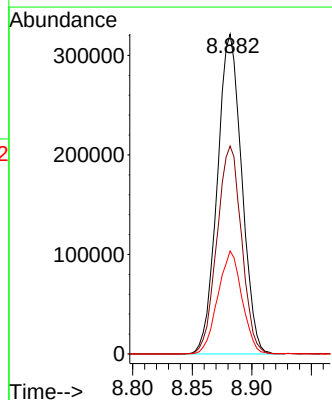
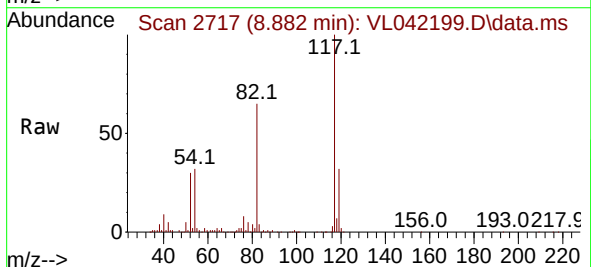
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

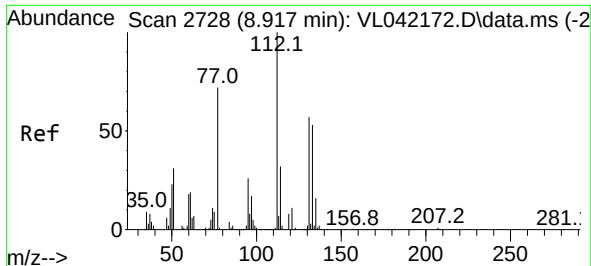
Tgt Ion: 91 Resp: 171948  
Ion Ratio Lower Upper  
91 100  
92 60.9 48.4 72.6



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 2717  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 117 Resp: 458107  
Ion Ratio Lower Upper  
117 100  
82 65.5 55.8 83.6  
119 32.0 25.5 38.3

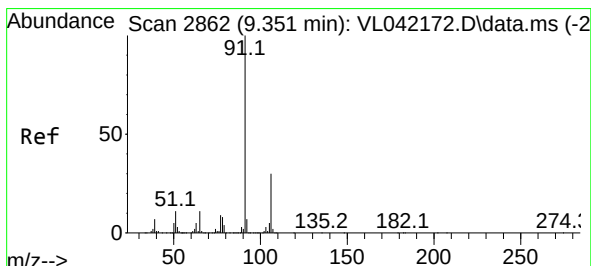
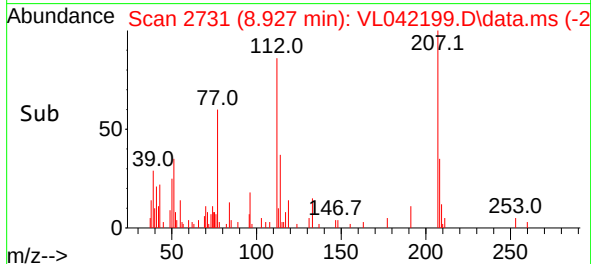
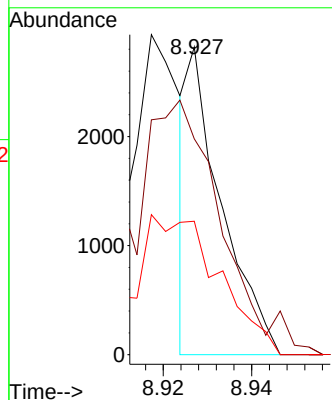
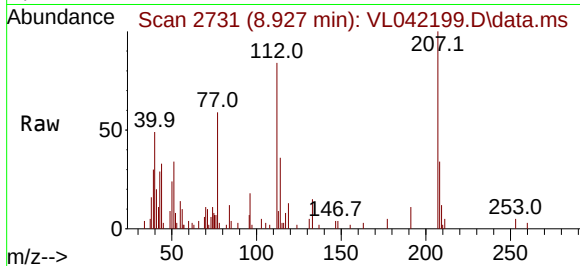




#57  
Chlorobenzene  
Concen: 0.034 ppbv  
RT: 8.927 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

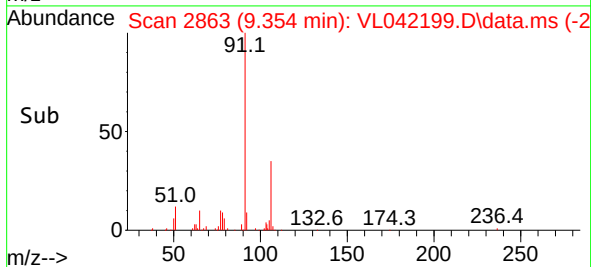
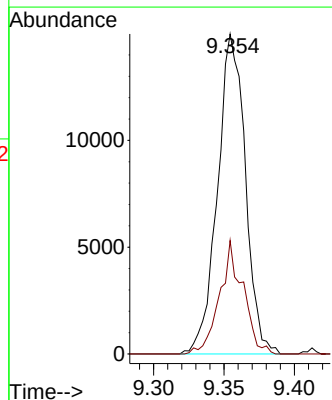
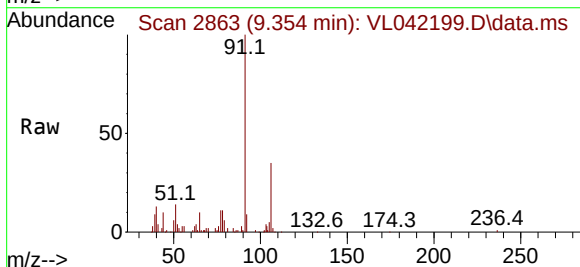
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-2-3262025

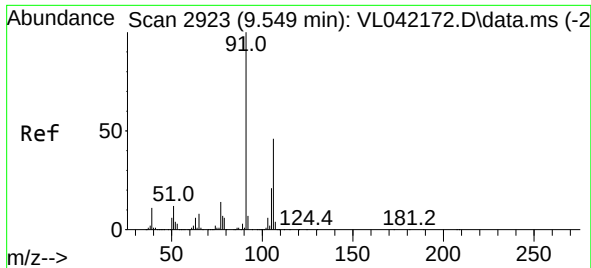
Tgt Ion:112 Resp: 1488  
Ion Ratio Lower Upper  
112 100  
77 55.9 58.2 87.2#  
114 43.4 29.1 35.5#



#58  
Ethyl Benzene  
Concen: 0.254 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 91 Resp: 20640  
Ion Ratio Lower Upper  
91 100  
106 35.4 24.2 36.2

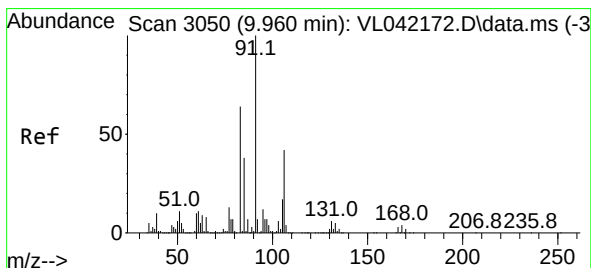
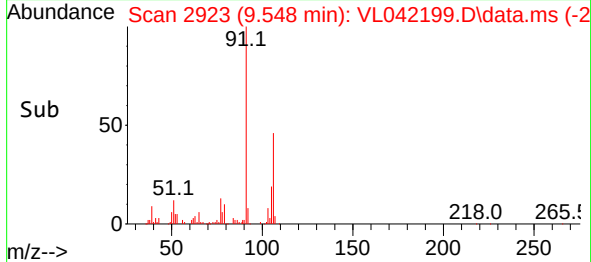
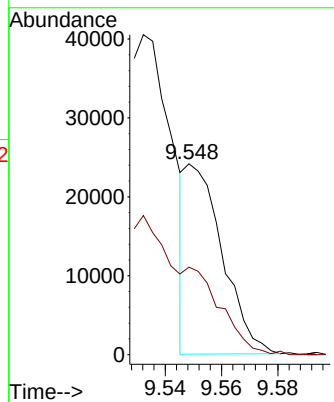
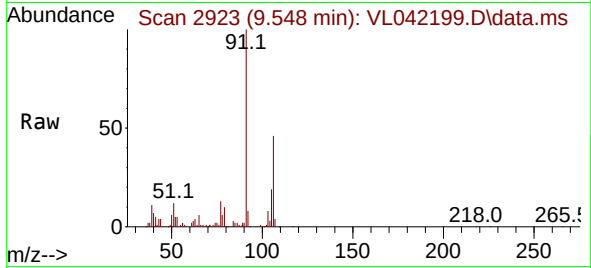




#59  
m/p-Xylene  
Concen: 0.335 ppbv  
RT: 9.548 min Scan# 2923  
Delta R.T. -0.000 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

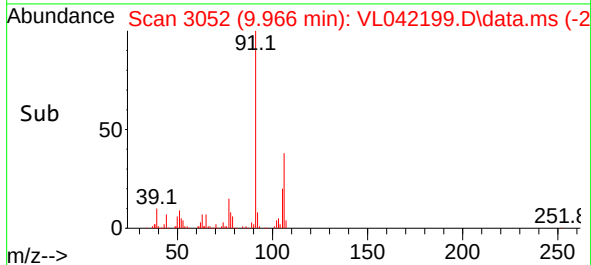
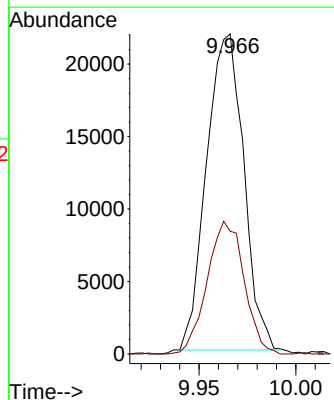
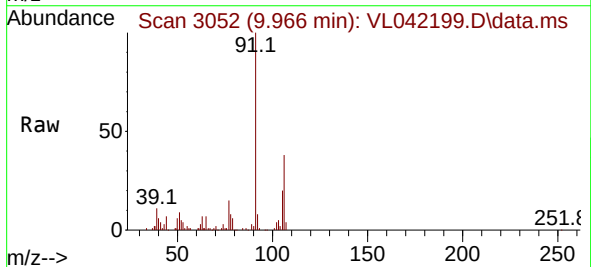
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

Tgt Ion: 91 Resp: 21772  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.4 54.6#

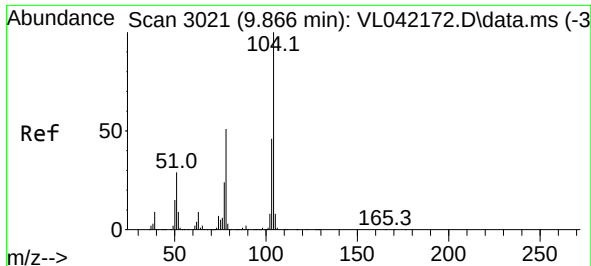


#60  
o-Xylene  
Concen: 0.448 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 91 Resp: 29151  
Ion Ratio Lower Upper  
91 100  
106 41.7 20.8 62.5



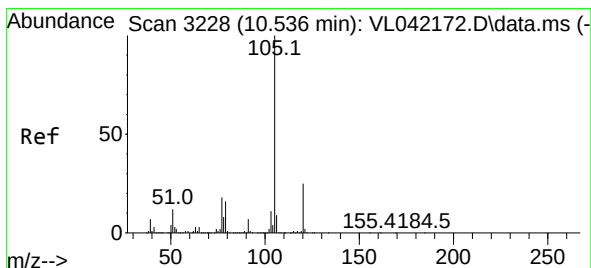
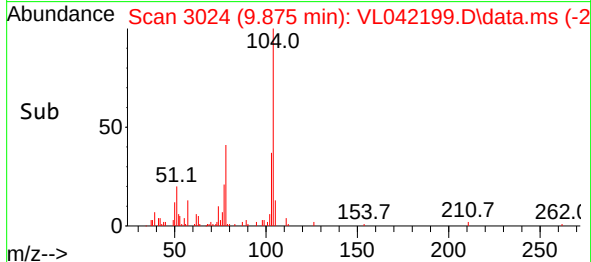
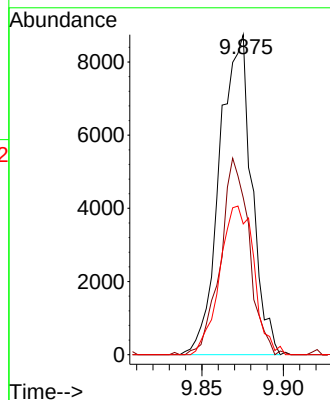
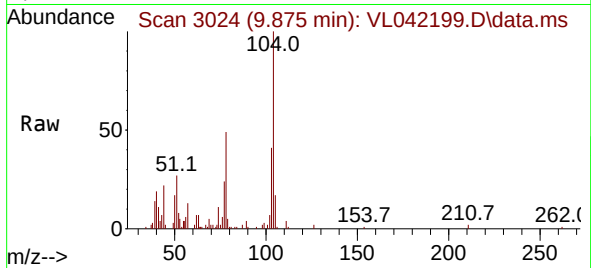




#61  
Styrene  
Concen: 0.372 ppbv  
RT: 9.875 min Scan# 3021  
Delta R.T. 0.010 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

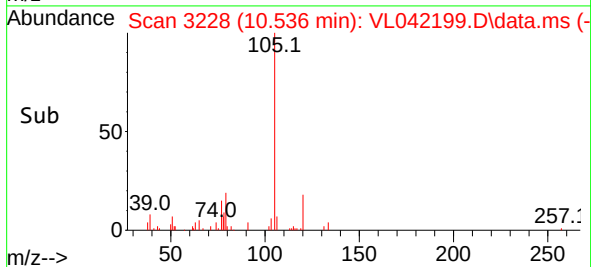
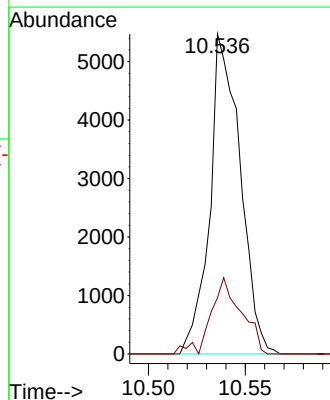
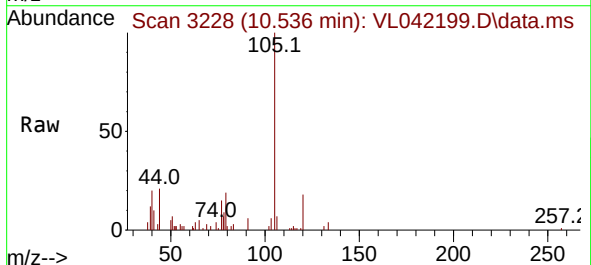
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

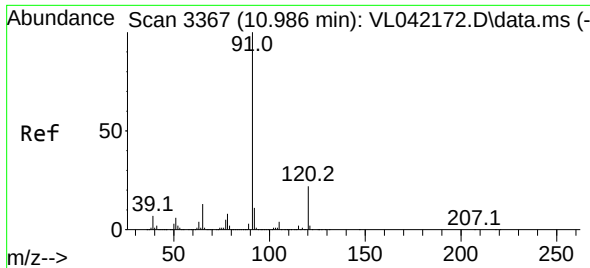
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 104   | Resp: | 11979 |
| Ion Ratio | Lower | Upper |       |
| 104       | 100   |       |       |
| 78        | 55.0  | 41.8  | 62.6  |
| 103       | 49.5  | 37.0  | 55.4  |



#62  
Isopropylbenzene  
Concen: 0.061 ppbv  
RT: 10.536 min Scan# 3228  
Delta R.T. -0.000 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 5968 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 24.1  | 19.9  | 29.9 |

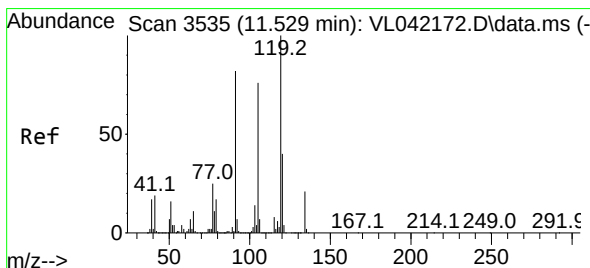
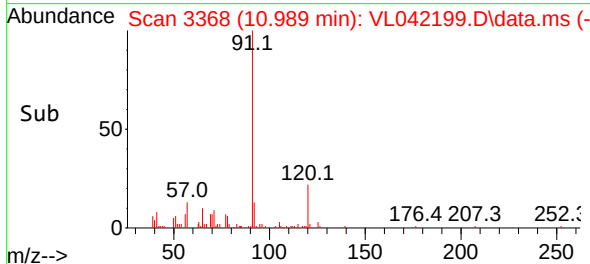
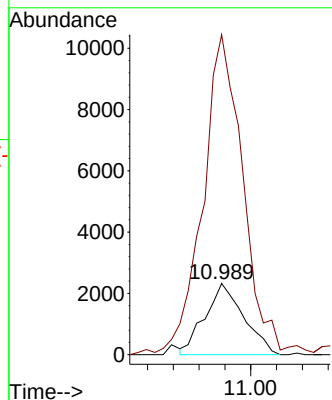
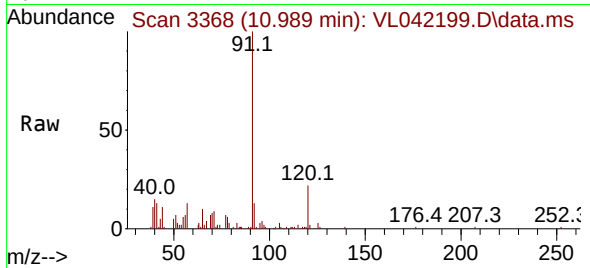




#64  
n-propylbenzene  
Concen: 0.096 ppbv  
RT: 10.989 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

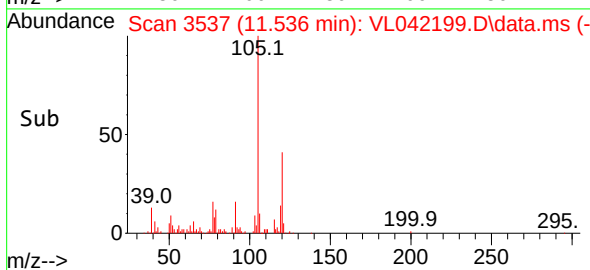
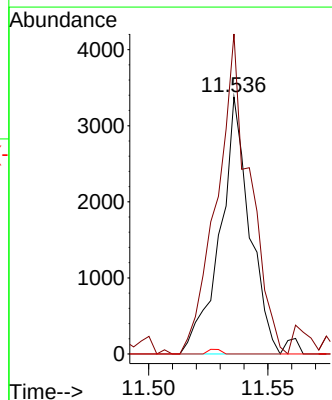
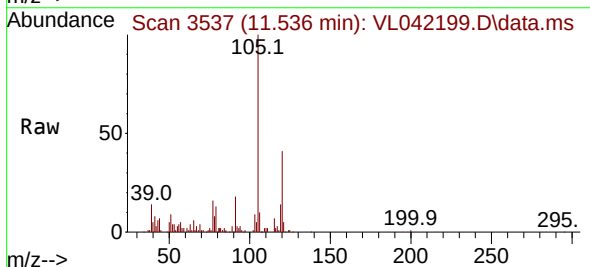
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-2-3262025

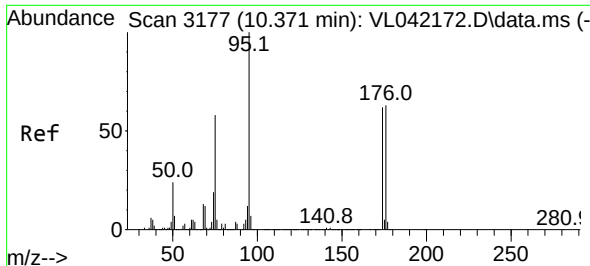
Tgt Ion:120 Resp: 2419  
Ion Ratio Lower Upper  
120 100  
91 479.7 376.9 565.3



#65  
tert-Butylbenzene  
Concen: 0.032 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion:119 Resp: 2907  
Ion Ratio Lower Upper  
119 100  
91 151.4 66.0 99.0#  
134 0.0 16.7 25.1#

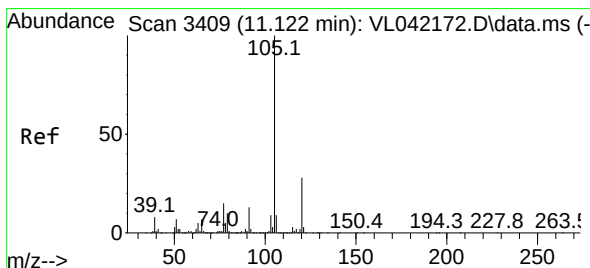
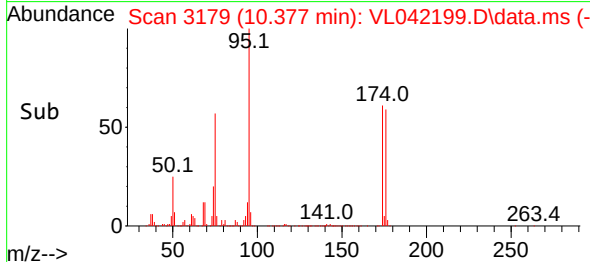
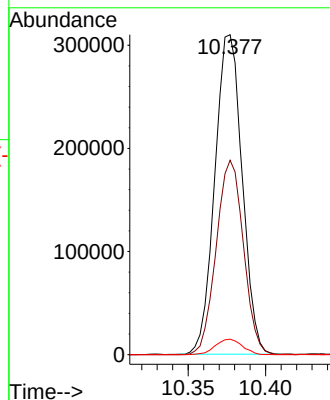
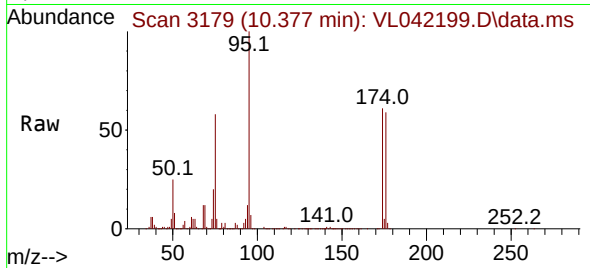




#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.097 ppbv  
RT: 10.377 min Scan# 3177  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

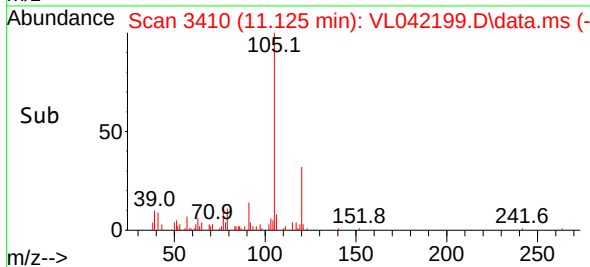
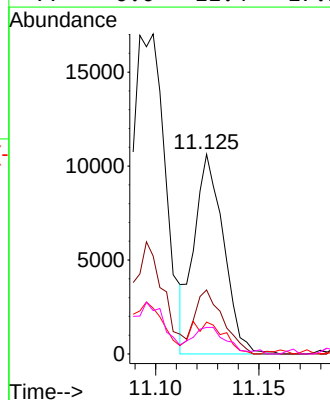
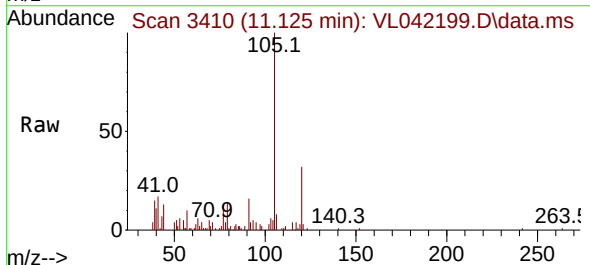
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-B16-2-3262025

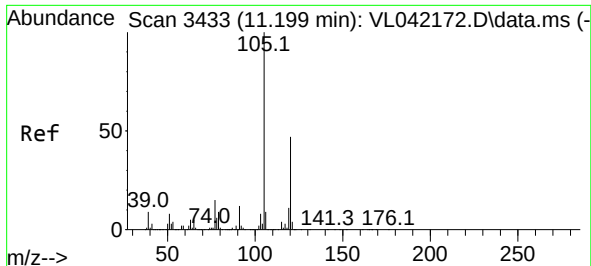
Tgt Ion: 95 Resp: 379865  
Ion Ratio Lower Upper  
95 100  
174 60.7 50.6 76.0  
175 4.8 3.8 5.6



#72  
4-Ethyltoluene  
Concen: 0.131 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. 0.003 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion: 105 Resp: 10586  
Ion Ratio Lower Upper  
105 100  
120 30.1 23.4 35.0  
91 14.4 10.3 15.5  
77 0.0 11.4 17.2#

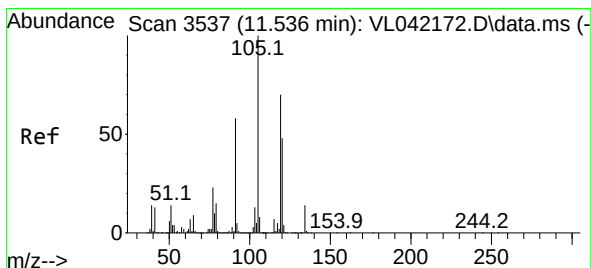
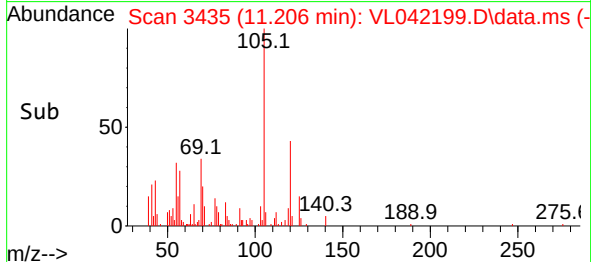
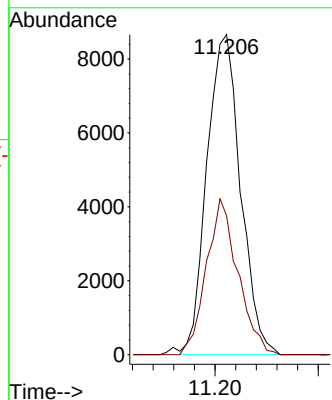
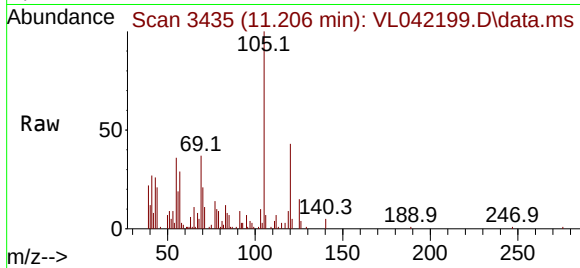




#73  
1,3,5-Trimethylbenzene  
Concen: 0.138 ppbv  
RT: 11.206 min Scan# 3435  
Delta R.T. 0.006 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

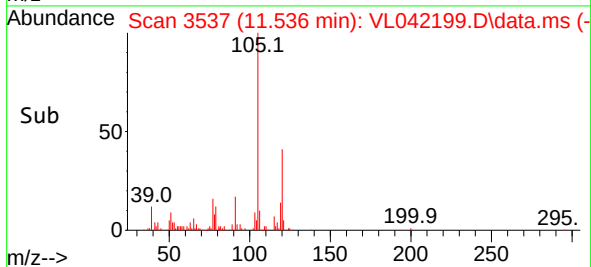
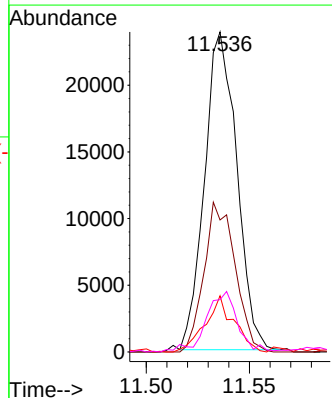
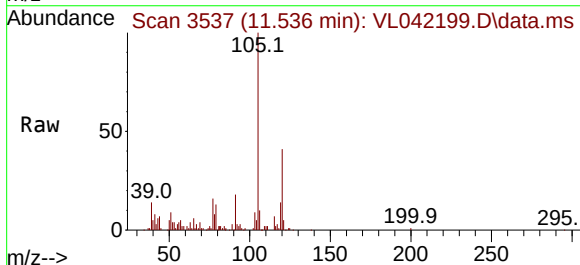
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-B16-2-3262025

Tgt Ion:105 Resp: 9797  
Ion Ratio Lower Upper  
105 100  
120 43.4 37.4 56.0



#74  
1,2,4-Trimethylbenzene  
Concen: 0.317 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. -0.000 min  
Lab File: VL042199.D  
Acq: 28 Mar 2025 02:33

Tgt Ion:105 Resp: 25878  
Ion Ratio Lower Upper  
105 100  
120 41.5 38.6 58.0  
91 16.8 46.2 69.2#  
77 15.9 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
 Data File : VL042201.D  
 Acq On : 31 Mar 2025 08:51  
 Operator : SY/MD  
 Sample : VSTDC0010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDC0010

Quant Time: Apr 01 01:34:26 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

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.800 | 49   | 161478   | 10.000 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 3.982 | 114  | 460403   | 10.000 | ppbv  | 0.03     |
| 55) Chlorobenzene-d5    | 8.904 | 117  | 424671   | 10.000 | ppbv  | 0.03     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 68) 1-Bromo-4-Fluorobenzene | 10.393 | 95    | 355372   | 10.190   | ppbv       | 0.02 |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | = 101.900% |      |

|                               |       |     |        |        |        |     |
|-------------------------------|-------|-----|--------|--------|--------|-----|
| Target Compounds              |       |     |        |        | Qvalue |     |
| 2) Dichlorodifluoromethane    | 1.506 | 85  | 243672 | 10.220 | ppbv   | 98  |
| 3) Chlorodifluoromethane      | 1.483 | 51  | 233931 | 9.604  | ppbv   | 96  |
| 4) Chloromethane              | 1.538 | 50  | 91967  | 9.439  | ppbv   | 99  |
| 5) Vinyl Chloride             | 1.586 | 62  | 88747  | 8.595  | ppbv   | 96  |
| 6) Bromomethane               | 1.674 | 94  | 40765  | 9.232  | ppbv   | 98  |
| 7) Chloroethane               | 1.713 | 64  | 35638  | 9.112  | ppbv   | 98  |
| 8) Dichlorotetrafluoroethane  | 1.561 | 85  | 203570 | 10.026 | ppbv   | 96  |
| 9) Propene                    | 1.489 | 41  | 95128  | 8.521  | ppbv   | 97  |
| 10) Heptane                   | 5.011 | 43  | 261936 | 8.821  | ppbv   | 99  |
| 11) Trichlorofluoromethane    | 1.887 | 101 | 231721 | 9.988  | ppbv   | 99  |
| 12) 1,1,2-Trichlorotrifluo... | 2.150 | 101 | 182824 | 9.588  | ppbv   | 98  |
| 13) Ethanol                   | 1.729 | 45  | 4473   | 4.238  | ppbv   | 87  |
| 14) Bromoethene               | 1.790 | 108 | 66903  | 9.159  | ppbv   | 99  |
| 15) Acetone                   | 1.842 | 43  | 193773 | 8.580  | ppbv   | 96  |
| 16) 1,3-Butadiene             | 1.616 | 39  | 96046  | 8.709  | ppbv   | 97  |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 252420 | 8.974  | ppbv   | 99  |
| 18) 1,1-Dichloroethene        | 2.043 | 96  | 82868  | 9.296  | ppbv   | 100 |
| 19) Isopropyl Alcohol         | 1.894 | 45  | 115180 | 9.039  | ppbv   | 98  |
| 20) Methylene Chloride        | 2.072 | 84  | 67877  | 8.070  | ppbv   | 94  |
| 21) Allyl Chloride            | 2.108 | 41  | 144599 | 9.079  | ppbv   | 98  |
| 22) trans-1,2-Dichloroethene  | 2.353 | 96  | 91942  | 8.924  | ppbv   | 96  |
| 23) Vinyl Acetate             | 2.473 | 43  | 82938  | 8.485  | ppbv # | 96  |
| 24) 1,1-Dichloroethane        | 2.421 | 63  | 185830 | 9.730  | ppbv   | 99  |
| 25) Ethyl Acetate             | 2.852 | 43  | 536366 | 9.151  | ppbv   | 99  |
| 26) Hexane                    | 2.842 | 57  | 209103 | 9.236  | ppbv   | 98  |
| 27) Carbon Disulfide          | 2.159 | 76  | 230171 | 9.481  | ppbv   | 98  |
| 28) Methyl tert-Butyl Ether   | 2.454 | 73  | 178093 | 12.635 | ppbv   | 92  |
| 29) Chloroform                | 2.865 | 83  | 337970 | 10.200 | ppbv   | 99  |
| 30) Cyclohexane               | 3.878 | 84  | 180110 | 9.162  | ppbv   | 95  |
| 31) cis-1,2-Dichloroethene    | 2.735 | 61  | 219389 | 9.545  | ppbv   | 98  |
| 32) 1,1,1-Trichloroethane     | 3.386 | 97  | 359718 | 9.483  | ppbv   | 98  |
| 34) 2-Butanone                | 2.570 | 43  | 301334 | 9.026  | ppbv   | 99  |
| 35) Carbon Tetrachloride      | 3.784 | 117 | 371691 | 10.335 | ppbv   | 98  |
| 36) Benzene                   | 3.677 | 78  | 426758 | 9.350  | ppbv   | 98  |
| 37) 1,2-Dichloroethane        | 3.234 | 62  | 273137 | 10.453 | ppbv   | 99  |
| 38) Trichloroethene           | 4.574 | 130 | 179999 | 9.452  | ppbv   | 96  |
| 39) 1,2-Dichloropropane       | 4.338 | 63  | 153124 | 9.212  | ppbv   | 94  |
| 40) 1,4-Dioxane               | 4.613 | 88  | 46600  | 5.282  | ppbv # | 20  |
| 41) Tetrahydrofuran           | 3.069 | 42  | 170829 | 8.886  | ppbv   | 100 |
| 42) Bromodichloromethane      | 4.516 | 83  | 373399 | 10.365 | ppbv   | 99  |
| 43) Methyl Methacrylate       | 4.907 | 69  | 170312 | 8.814  | ppbv   | 98  |
| 44) 2,2,4-Trimethylpentane    | 4.664 | 57  | 705253 | 9.143  | ppbv   | 98  |
| 45) t-1,3-Dichloropropene     | 6.445 | 75  | 190040 | 9.167  | ppbv   | 96  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
 Data File : VL042201.D  
 Acq On : 31 Mar 2025 08:51  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

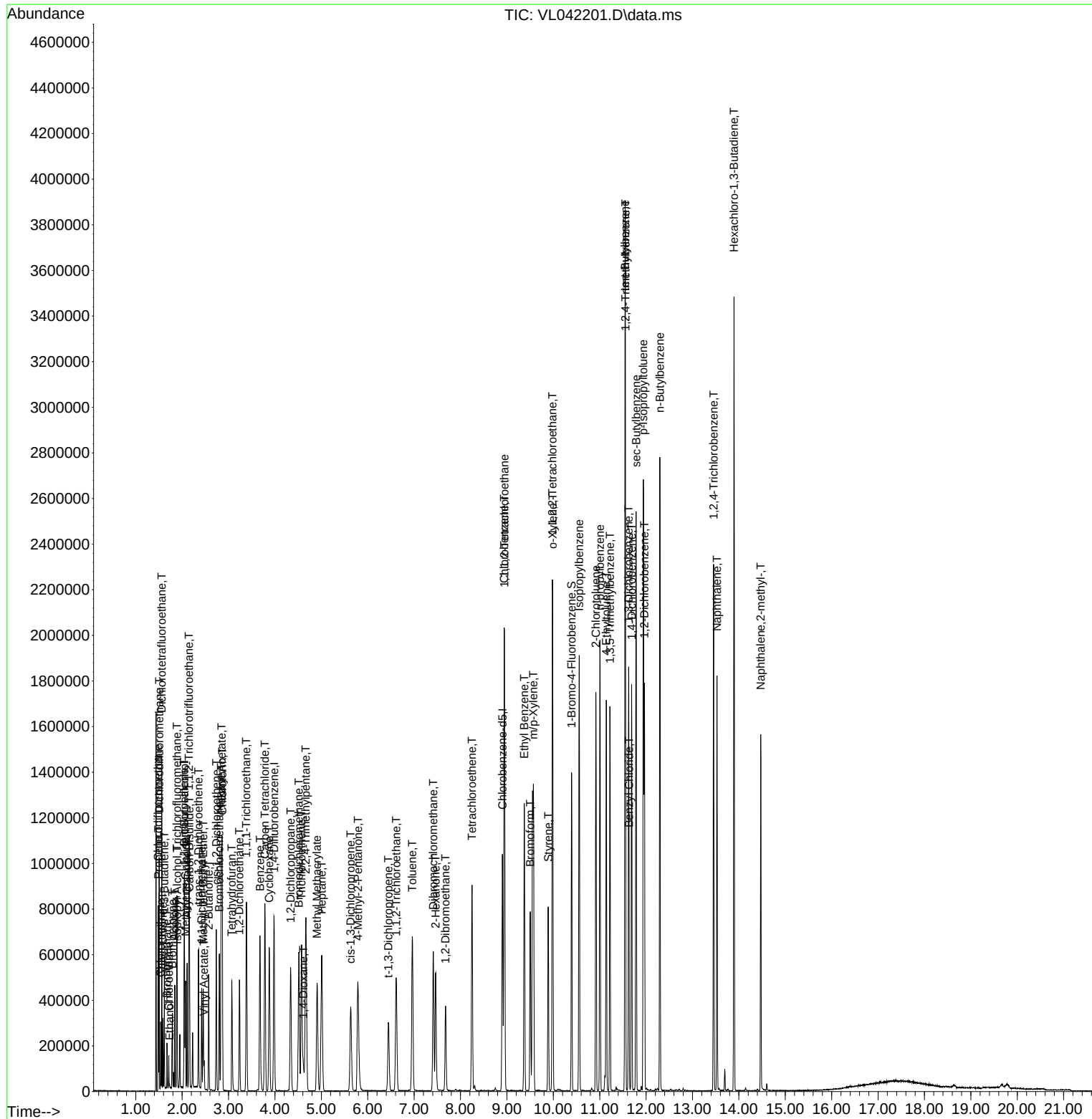
Quant Time: Apr 01 01:34:26 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 2025  
 Response via : Initial Calibration

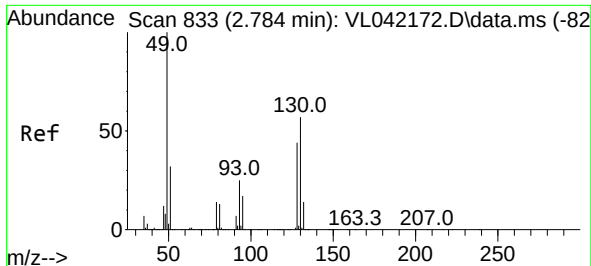
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.632  | 75   | 232713   | 9.158  | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 6.616  | 97   | 81186    | 4.620  | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.416  | 129  | 303330   | 10.186 | ppbv   | 100      |
| 49) Bromoform                 | 9.503  | 173  | 261484   | 9.780  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.791  | 43   | 437050   | 8.261  | ppbv   | 97       |
| 51) 2-Hexanone                | 7.464  | 43   | 351622   | 8.093  | ppbv # | 96       |
| 52) Tetrachloroethene         | 8.247  | 164  | 155203   | 8.574  | ppbv   | 96       |
| 53) Toluene                   | 6.962  | 91   | 492717   | 9.106  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.675  | 107  | 239347   | 9.771  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.947  | 131  | 236930   | 10.136 | ppbv   | 98       |
| 57) Chlorobenzene             | 8.943  | 112  | 389475   | 9.669  | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.374  | 91   | 712533   | 9.446  | ppbv   | 98       |
| 59) m/p-Xylene                | 9.571  | 91   | 553998   | 9.197  | ppbv # | 25       |
| 60) o-Xylene                  | 9.986  | 91   | 575224   | 9.526  | ppbv   | 97       |
| 61) Styrene                   | 9.892  | 104  | 281518   | 9.424  | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.558 | 105  | 874894   | 9.689  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.982  | 83   | 349199   | 9.518  | ppbv   | 100      |
| 64) n-propylbenzene           | 11.008 | 120  | 228400   | 9.826  | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.549 | 119  | 795482   | 9.526  | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.633 | 91   | 72526    | 8.185  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.785 | 105  | 1123267  | 9.677  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 967912   | 9.684  | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.296 | 91   | 1006907  | 9.850  | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.918 | 91   | 676396   | 9.652  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.141 | 105  | 734909   | 9.775  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.222 | 105  | 637499   | 9.709  | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.555 | 105  | 696079   | 9.202  | ppbv   | 99       |
| 75) 1,3-Dichlorobenzene       | 11.623 | 146  | 410546   | 9.895  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.688 | 146  | 413478   | 10.014 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.963 | 146  | 399386   | 9.887  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 345217   | 8.395  | ppbv   | 99       |
| 79) Naphthalene               | 13.530 | 128  | 833346   | 10.072 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 427563   | 10.537 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 373226   | 9.779  | ppbv   | 99       |

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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDCCC010

Quant Time: Apr 01 01:34:26 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration

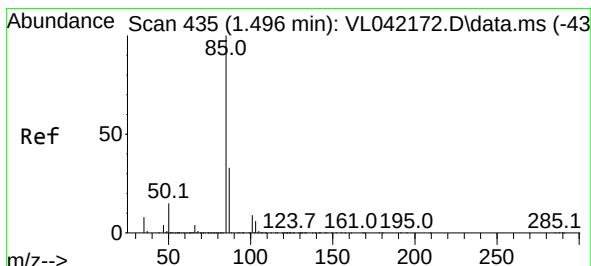
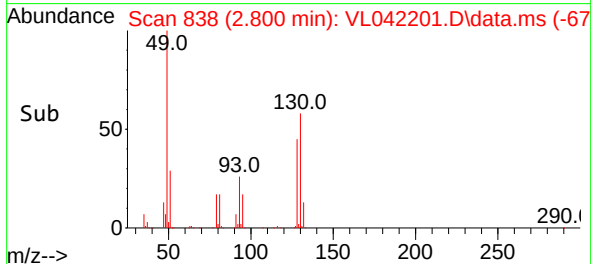
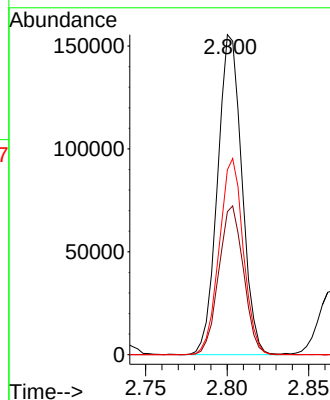
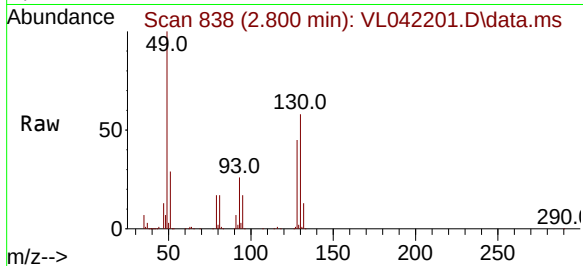




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.800 min Scan# 81  
Delta R.T. 0.016 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

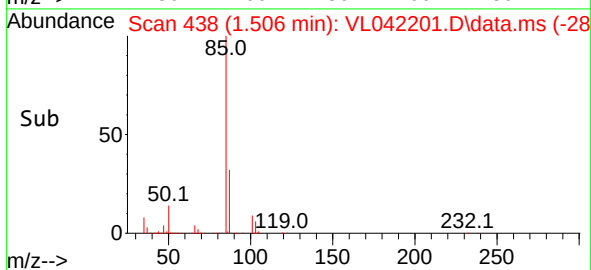
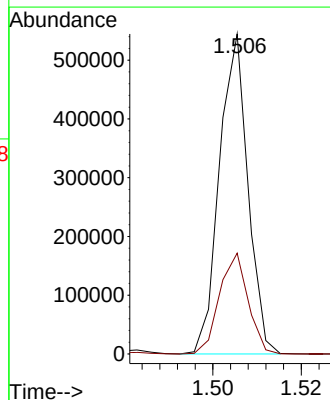
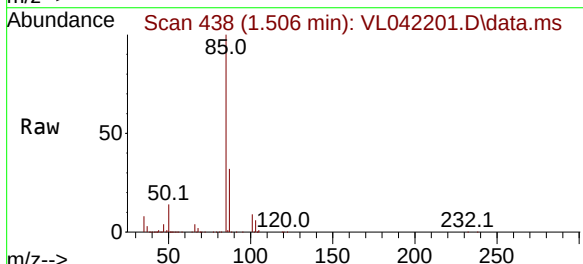
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 49 Resp: 161478  
Ion Ratio Lower Upper  
49 100  
128 47.1 22.9 68.5  
130 60.6 28.8 86.4

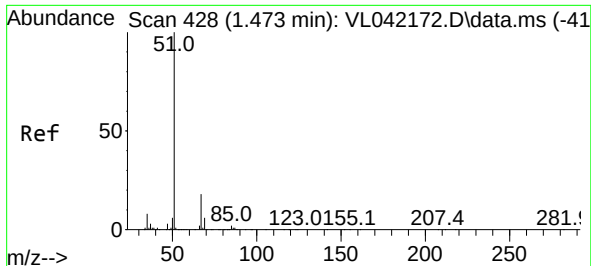


#2  
Dichlorodifluoromethane  
Concen: 10.220 ppbv  
RT: 1.506 min Scan# 438  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 85 Resp: 243672  
Ion Ratio Lower Upper  
85 100  
87 31.5 26.1 39.1



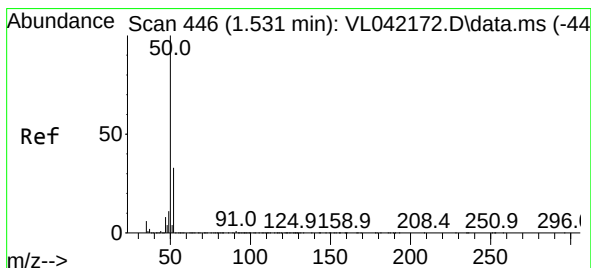
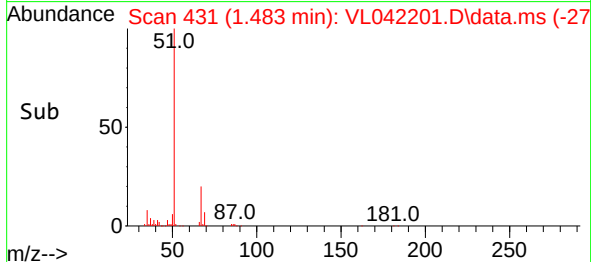
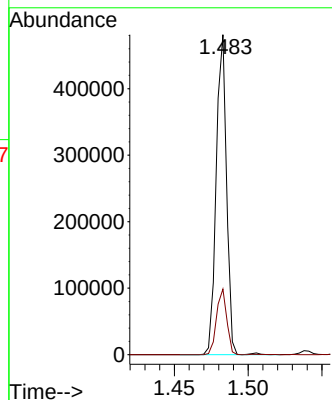
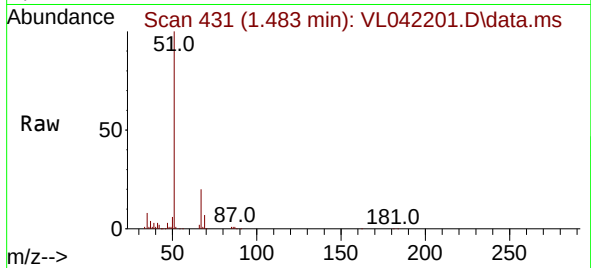




#3  
Chlorodifluoromethane  
Concen: 9.604 ppbv  
RT: 1.483 min Scan# 41  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

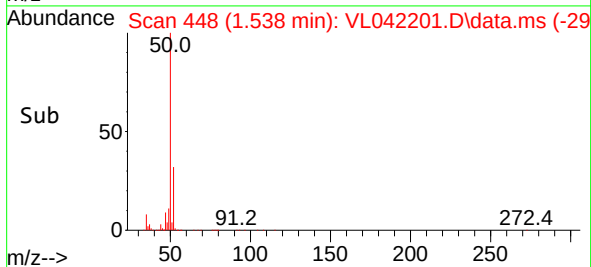
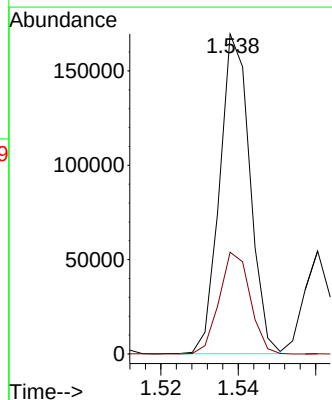
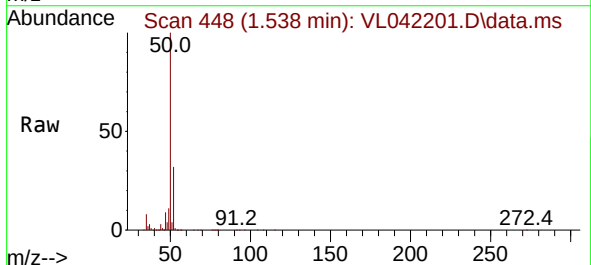
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

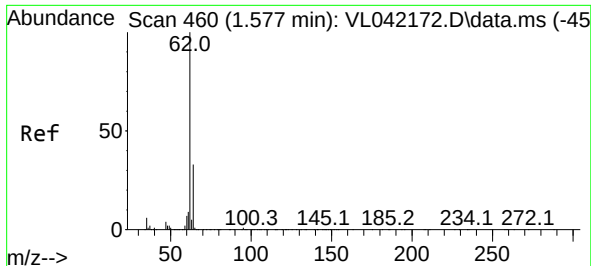
Tgt Ion: 51 Resp: 233931  
Ion Ratio Lower Upper  
51 100  
67 20.4 15.0 22.6



#4  
Chloromethane  
Concen: 9.439 ppbv  
RT: 1.538 min Scan# 448  
Delta R.T. 0.006 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 50 Resp: 91967  
Ion Ratio Lower Upper  
50 100  
52 31.8 26.1 39.1

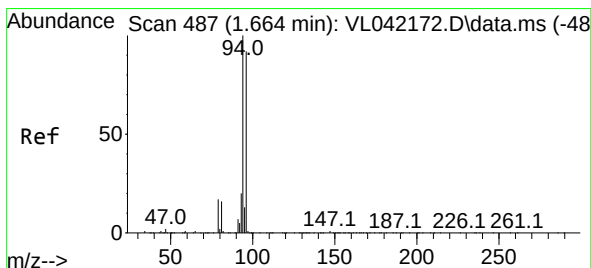
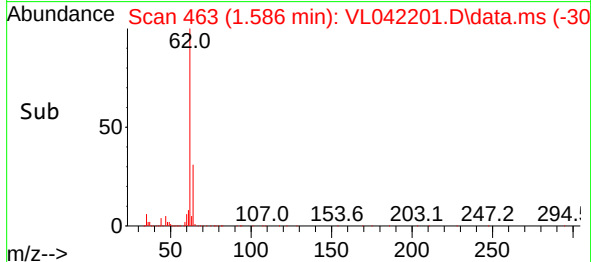
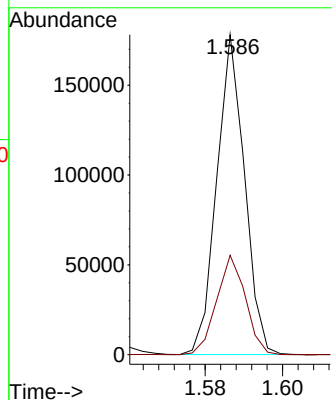
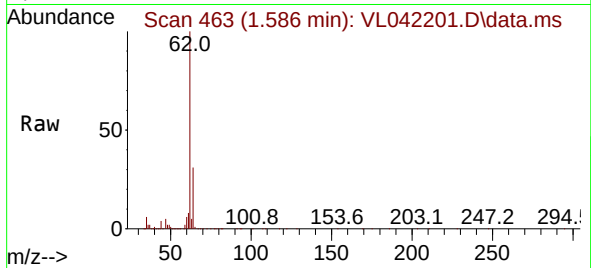




#5  
Vinyl Chloride  
Concen: 8.595 ppbv  
RT: 1.586 min Scan# 410  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

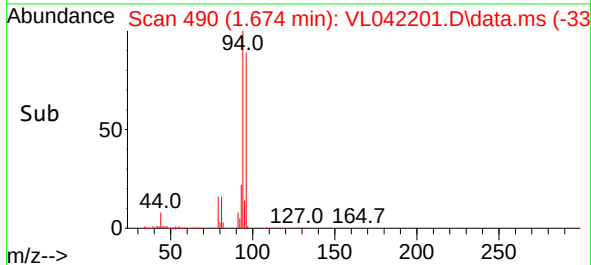
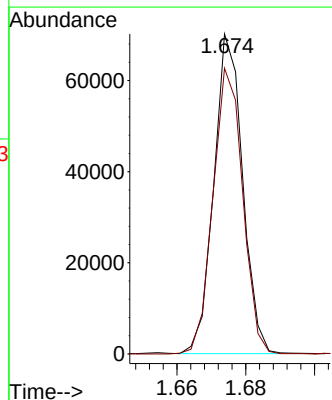
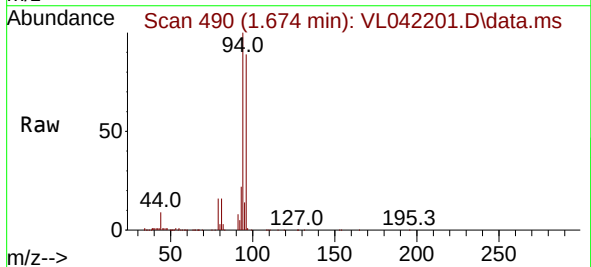
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

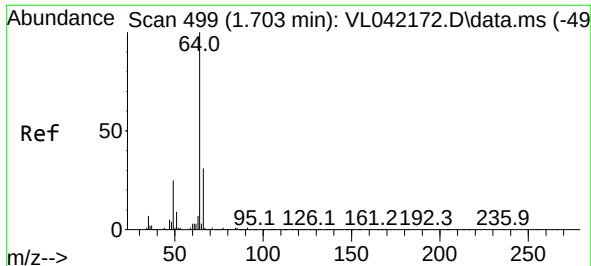
Tgt Ion: 62 Resp: 88747  
Ion Ratio Lower Upper  
62 100  
64 31.1 26.6 40.0



#6  
Bromomethane  
Concen: 9.232 ppbv  
RT: 1.674 min Scan# 490  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 94 Resp: 40765  
Ion Ratio Lower Upper  
94 100  
96 89.3 73.1 109.7

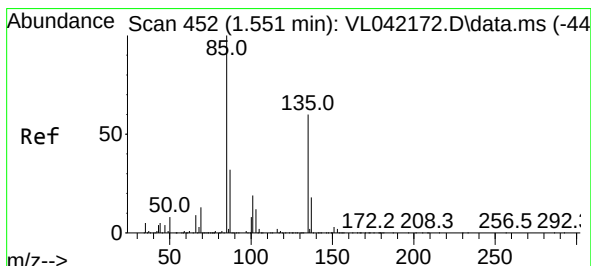
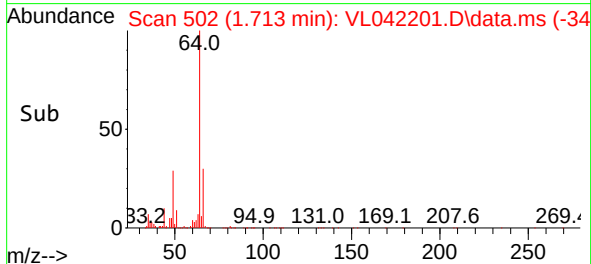
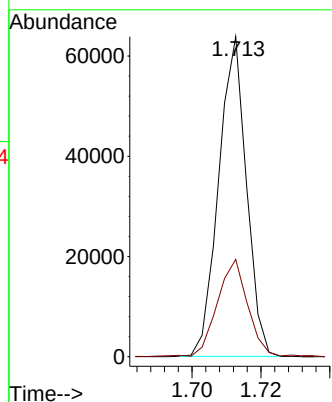
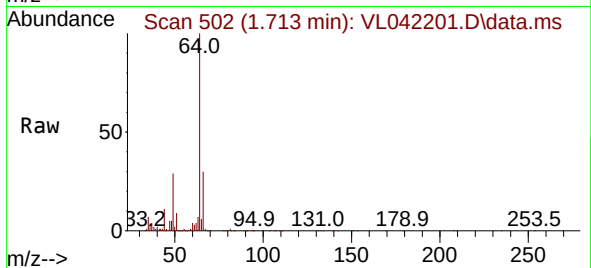




#7  
Chloroethane  
Concen: 9.112 ppbv  
RT: 1.713 min Scan# 502  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

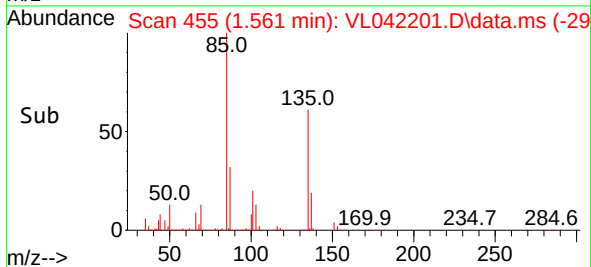
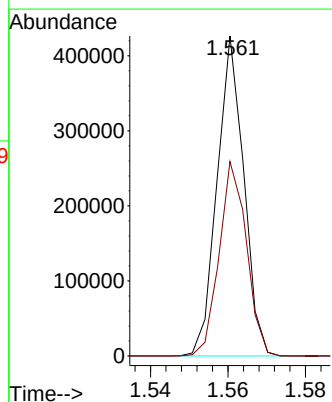
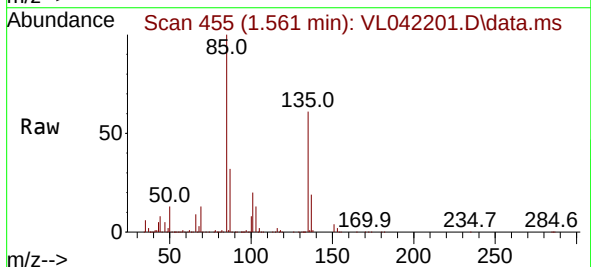
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

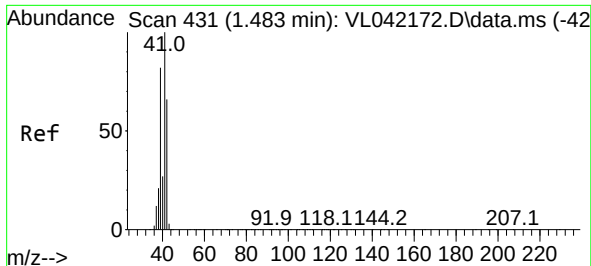
Tgt Ion: 64 Resp: 35638  
Ion Ratio Lower Upper  
64 100  
66 30.4 25.2 37.8



#8  
Dichlorotetrafluoroethane  
Concen: 10.026 ppbv  
RT: 1.561 min Scan# 455  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 85 Resp: 203570  
Ion Ratio Lower Upper  
85 100  
135 62.2 52.4 78.6

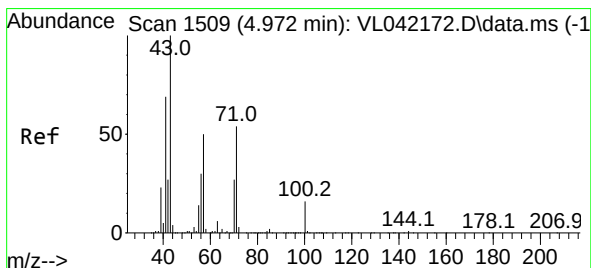
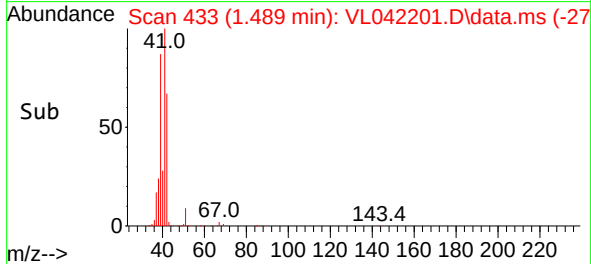
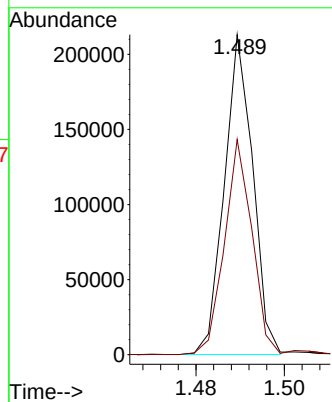
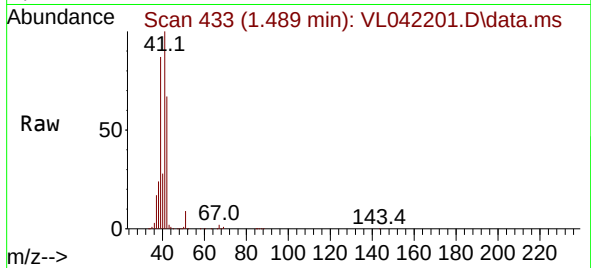




#9  
Propene  
Concen: 8.521 ppbv  
RT: 1.489 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

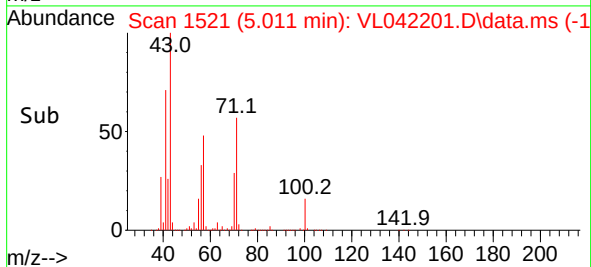
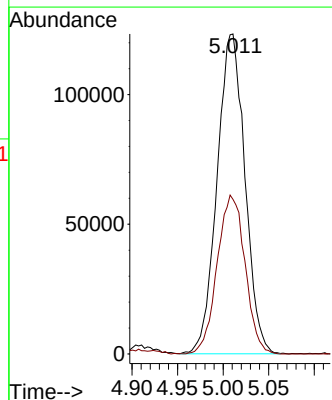
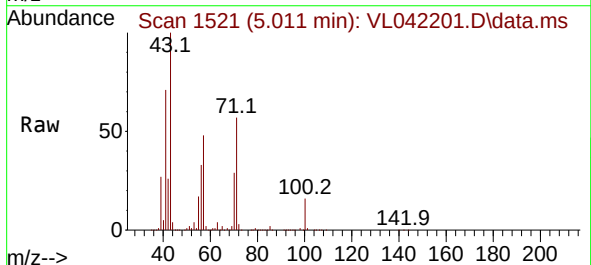
Instrument :  
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ClientSampleId :  
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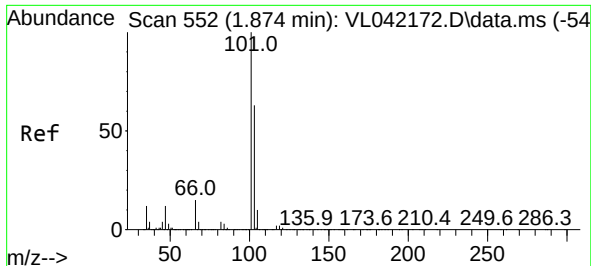
Tgt Ion: 41 Resp: 95128  
Ion Ratio Lower Upper  
41 100  
42 67.2 55.4 83.2



#10  
Heptane  
Concen: 8.821 ppbv  
RT: 5.011 min Scan# 1521  
Delta R.T. 0.039 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 43 Resp: 261936  
Ion Ratio Lower Upper  
43 100  
57 49.7 39.4 59.2

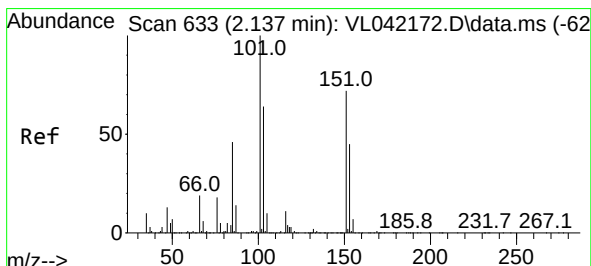
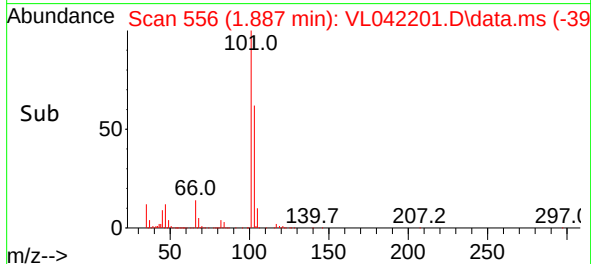
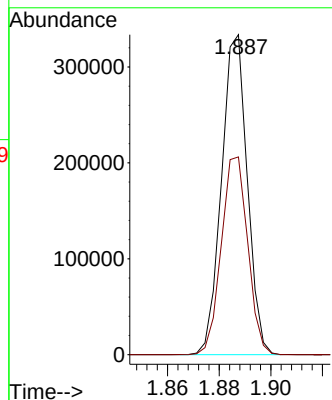
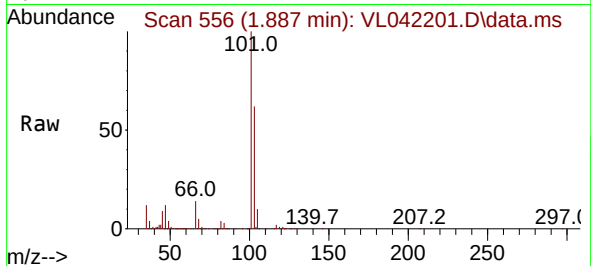




#11  
Trichlorofluoromethane  
Concen: 9.988 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. 0.013 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

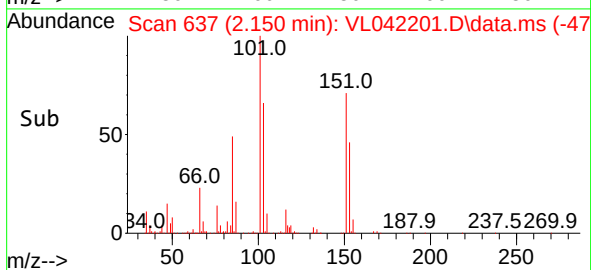
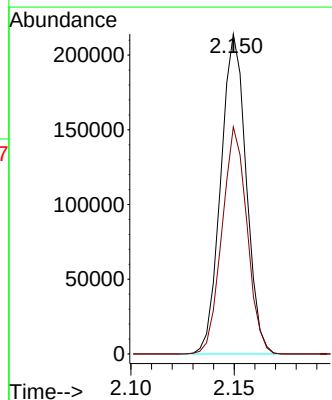
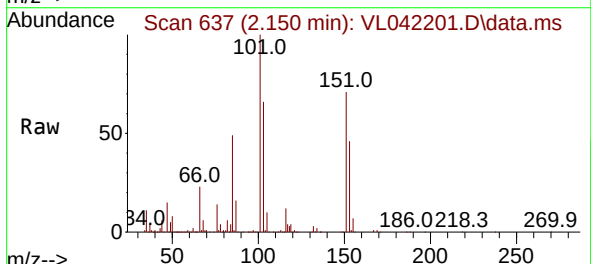
Instrument :  
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ClientSampleId :  
VSTDCCC010

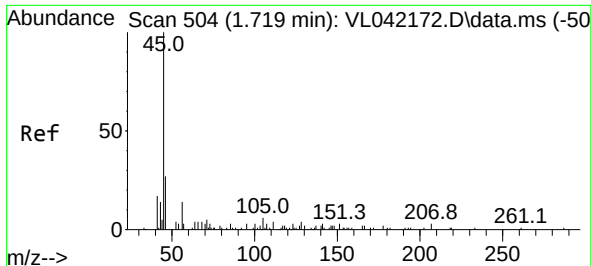
Tgt Ion:101 Resp: 231721  
Ion Ratio Lower Upper  
101 100  
103 61.8 50.2 75.2



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.588 ppbv  
RT: 2.150 min Scan# 637  
Delta R.T. 0.013 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion:101 Resp: 182824  
Ion Ratio Lower Upper  
101 100  
151 69.9 57.1 85.7

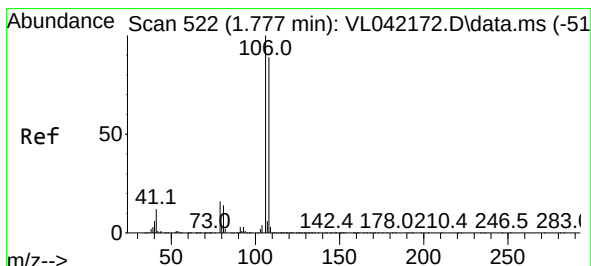
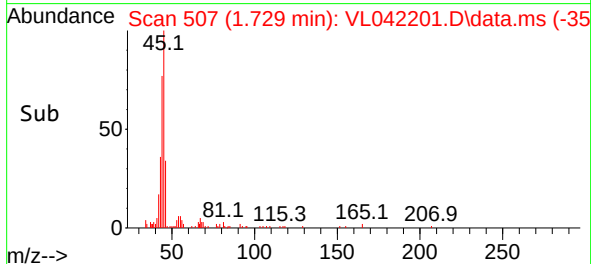
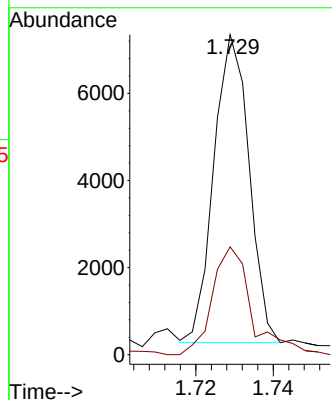
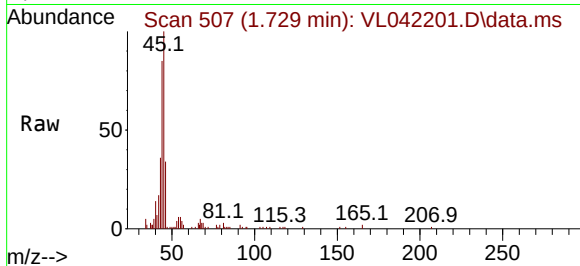




#13  
Ethanol  
Concen: 4.238 ppbv  
RT: 1.729 min Scan# 504  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

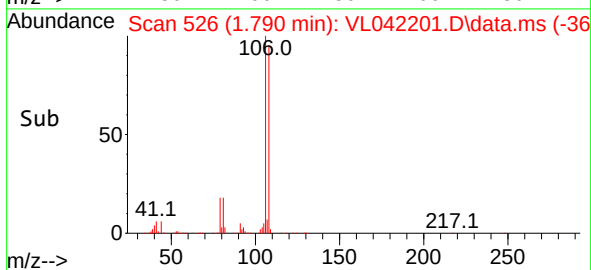
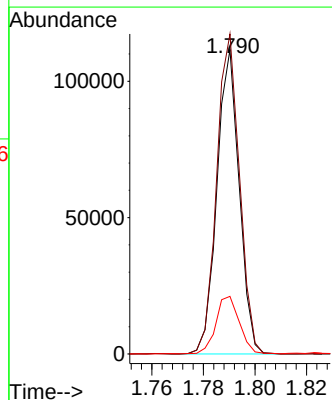
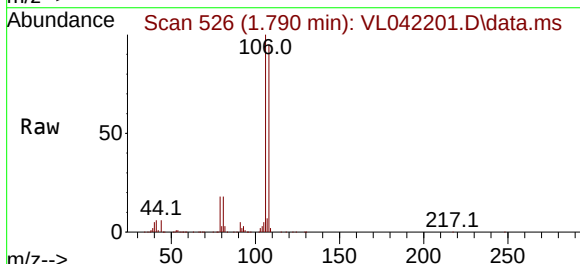
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

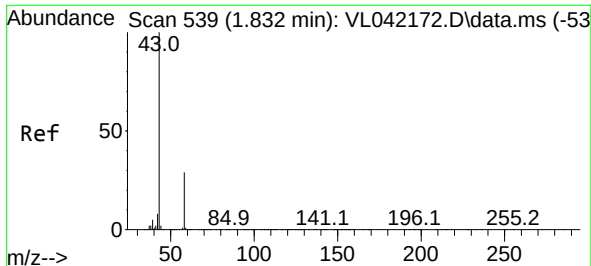
Tgt Ion: 45 Resp: 4473  
Ion Ratio Lower Upper  
45 100  
46 41.3 20.2 80.8



#14  
Bromoethene  
Concen: 9.159 ppbv  
RT: 1.790 min Scan# 526  
Delta R.T. 0.013 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 108 Resp: 66903  
Ion Ratio Lower Upper  
108 100  
106 107.5 86.8 130.2  
79 20.9 15.0 22.6

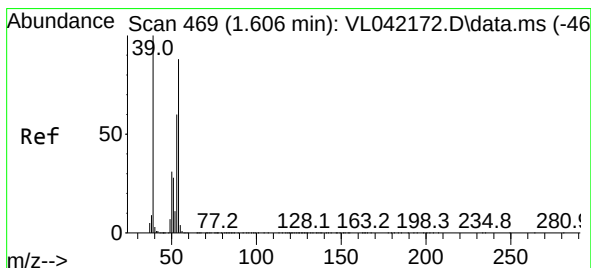
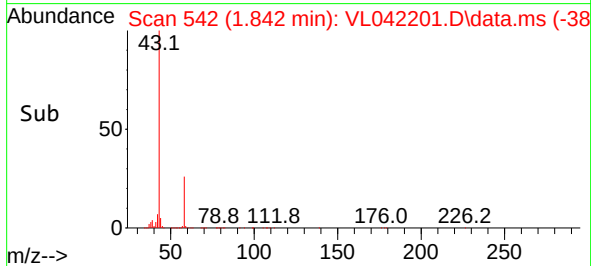
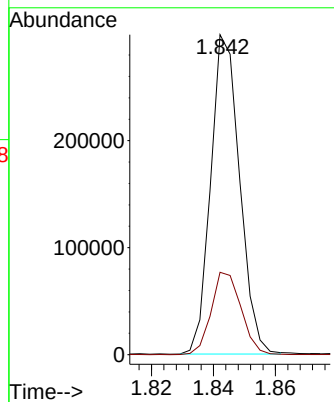
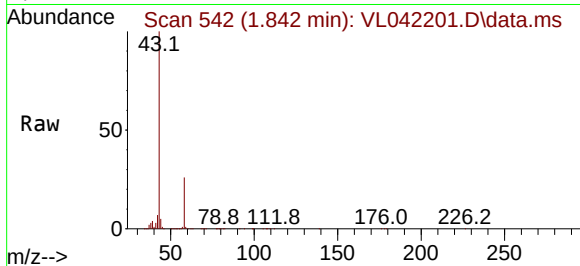




#15  
Acetone  
Concen: 8.580 ppbv  
RT: 1.842 min Scan# 54  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

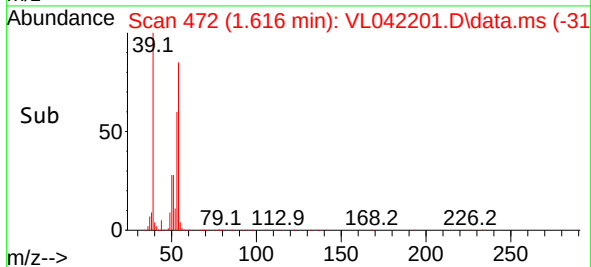
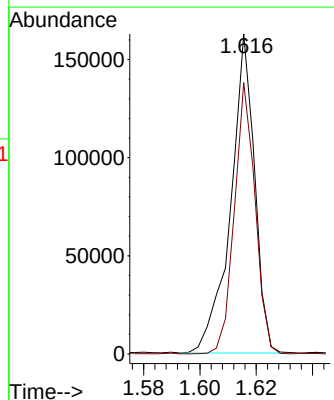
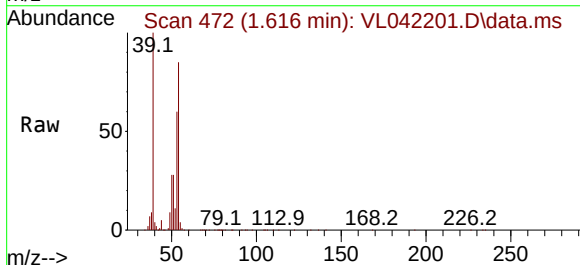
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

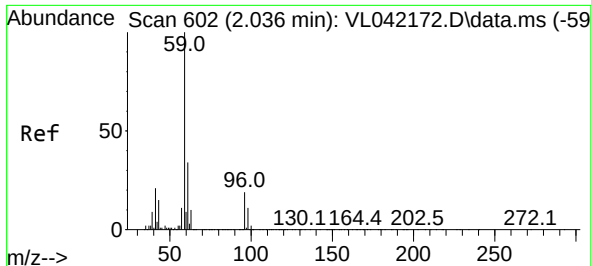
Tgt Ion: 43 Resp: 193773  
Ion Ratio Lower Upper  
43 100  
58 26.7 23.2 34.8



#16  
1,3-Butadiene  
Concen: 8.709 ppbv  
RT: 1.616 min Scan# 472  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 39 Resp: 96046  
Ion Ratio Lower Upper  
39 100  
54 73.7 60.7 91.1





#17

tert-Butyl alcohol

Concen: 8.974 ppbv

RT: 2.049 min Scan# 60

Delta R.T. 0.013 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Instrument :

MSVOA\_L

ClientSampleId :

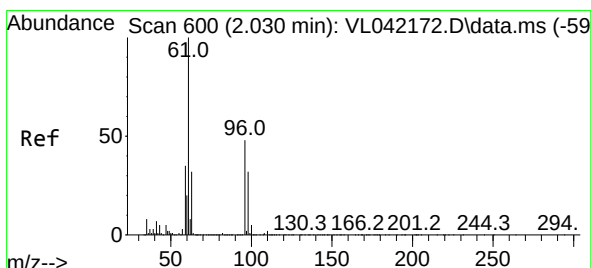
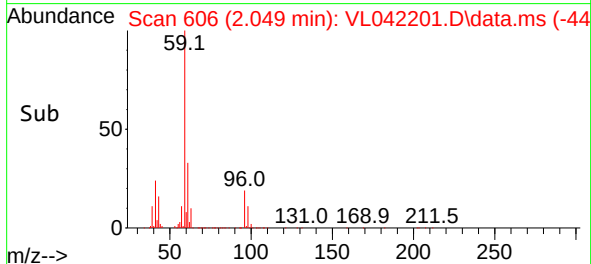
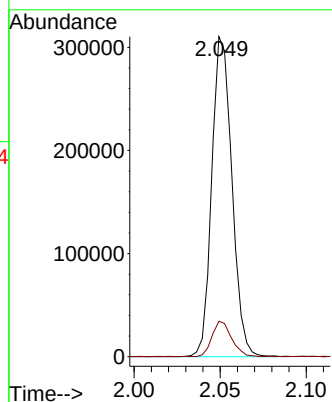
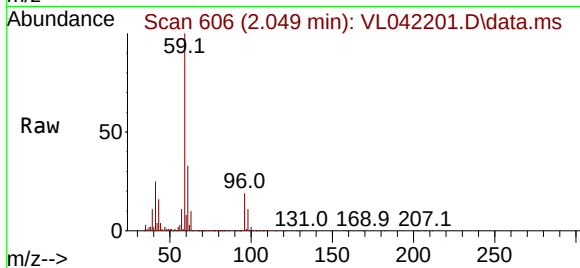
VSTDCCC010

Tgt Ion: 59 Resp: 252420

Ion Ratio Lower Upper

59 100

57 10.8 8.9 13.3



#18

1,1-Dichloroethene

Concen: 9.296 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.013 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

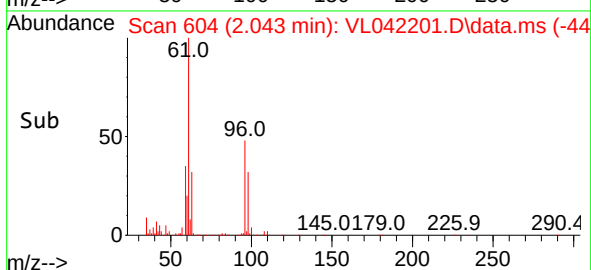
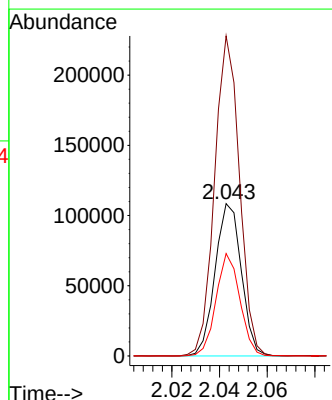
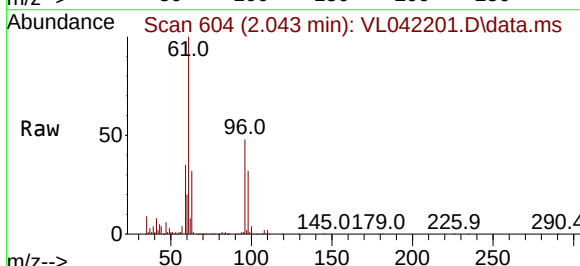
Tgt Ion: 96 Resp: 82868

Ion Ratio Lower Upper

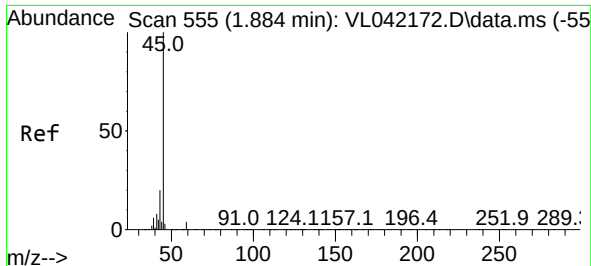
96 100

61 209.9 167.6 251.4

98 67.2 53.5 80.3



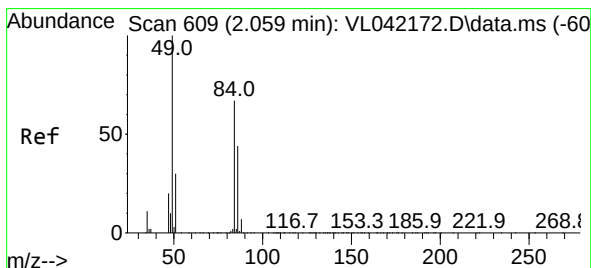
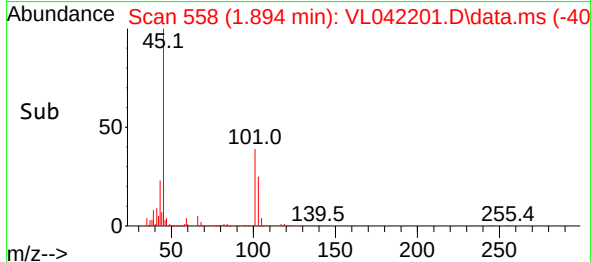
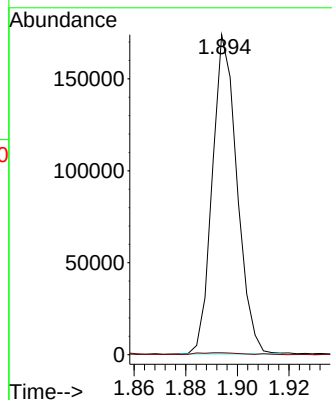
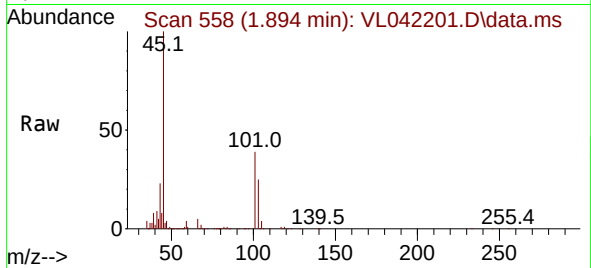




#19  
Isopropyl Alcohol  
Concen: 9.039 ppbv  
RT: 1.894 min Scan# 511  
Delta R.T. 0.010 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

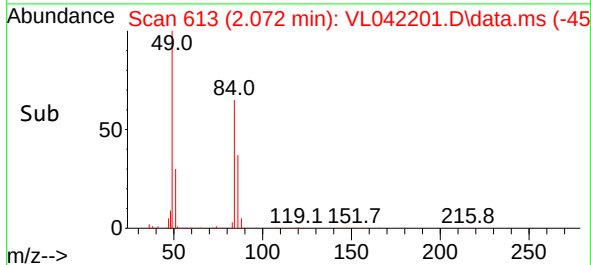
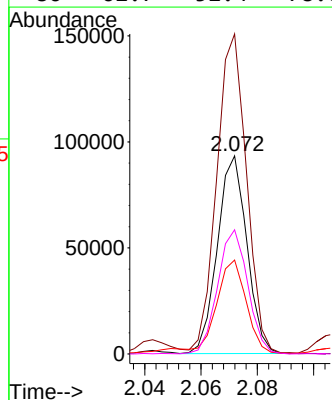
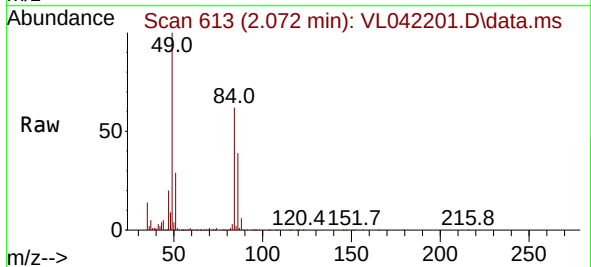
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

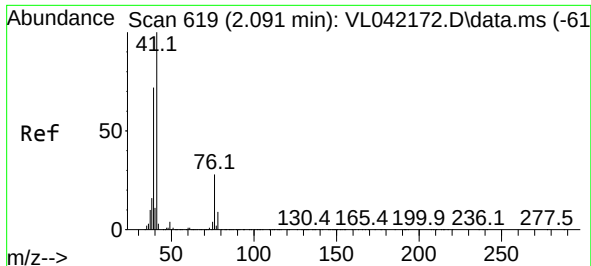
Tgt Ion: 45 Resp: 115180  
Ion Ratio Lower Upper  
45 100  
58 45.0 36.9 55.3



#20  
Methylene Chloride  
Concen: 8.070 ppbv  
RT: 2.072 min Scan# 613  
Delta R.T. 0.013 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 84 Resp: 67877  
Ion Ratio Lower Upper  
84 100  
49 161.2 120.2 180.4  
51 47.1 37.4 56.0  
86 62.7 52.4 78.6

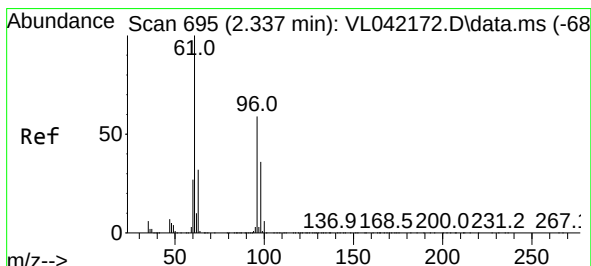
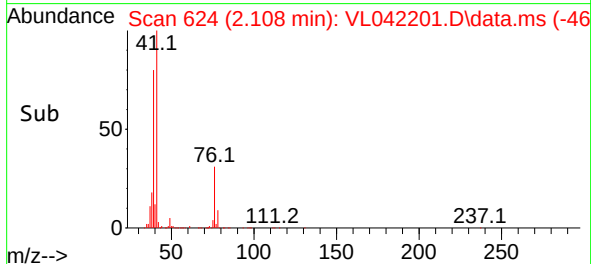
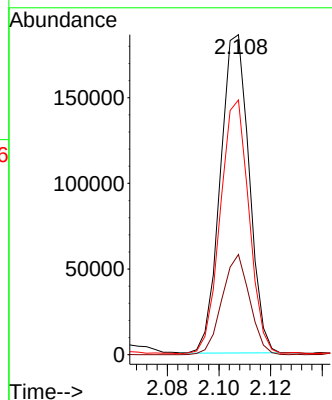
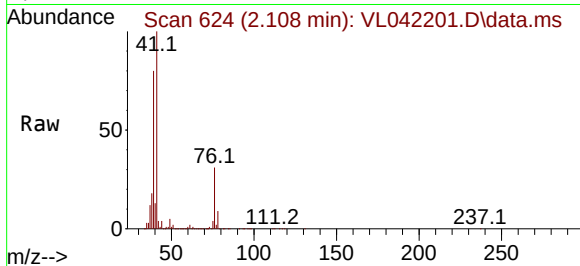




#21  
 Allyl Chloride  
 Concen: 9.079 ppbv  
 RT: 2.108 min Scan# 61  
 Delta R.T. 0.016 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51

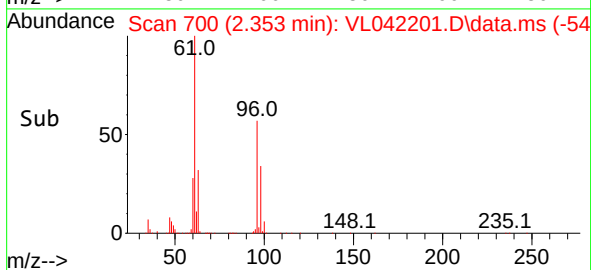
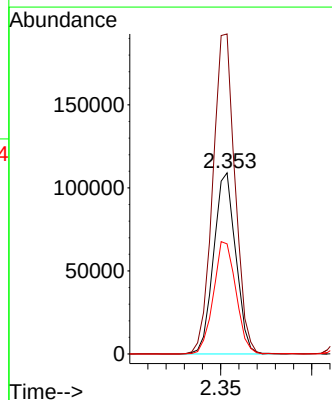
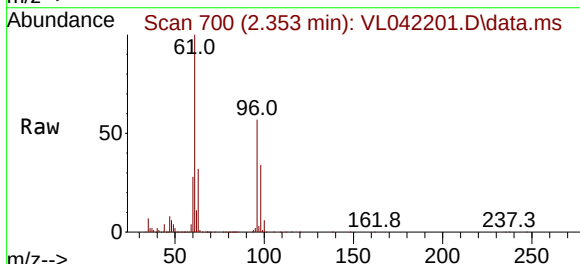
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

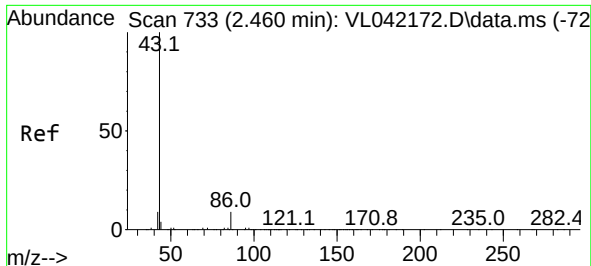
Tgt Ion: 41 Resp: 144599  
 Ion Ratio Lower Upper  
 41 100  
 76 30.0 24.1 36.1  
 39 79.1 61.1 91.7



#22  
 trans-1,2-Dichloroethene  
 Concen: 8.924 ppbv  
 RT: 2.353 min Scan# 700  
 Delta R.T. 0.016 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51

Tgt Ion: 96 Resp: 91942  
 Ion Ratio Lower Upper  
 96 100  
 61 176.6 136.6 204.8  
 98 60.8 49.4 74.2

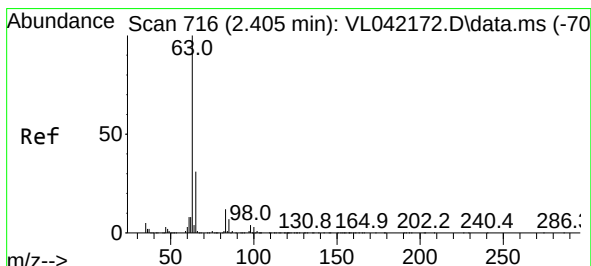
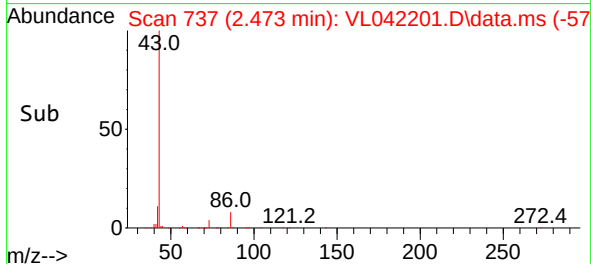
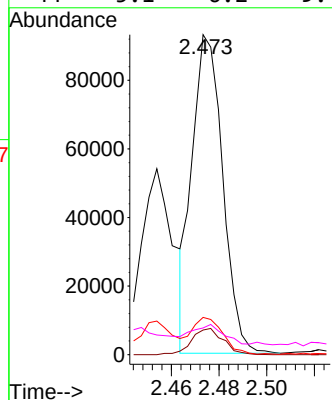
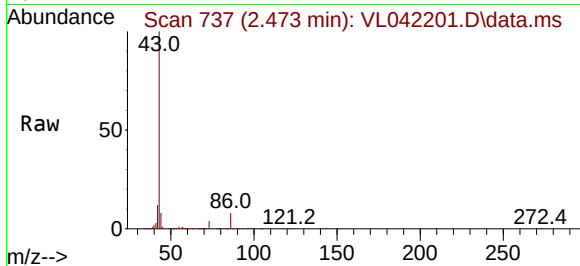




#23  
Vinyl Acetate  
Concen: 8.485 ppbv  
RT: 2.473 min Scan# 716  
Delta R.T. 0.013 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

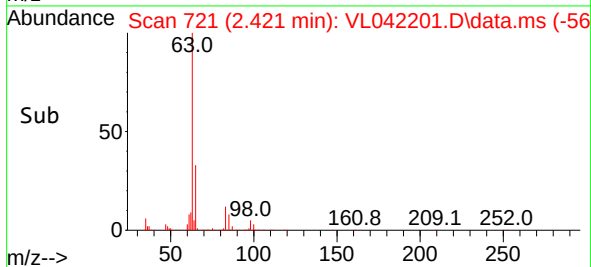
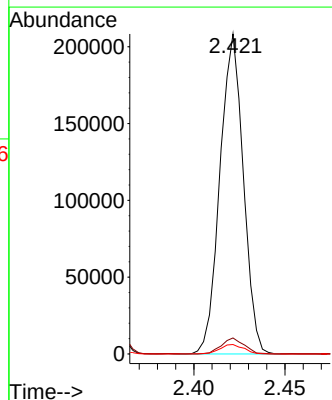
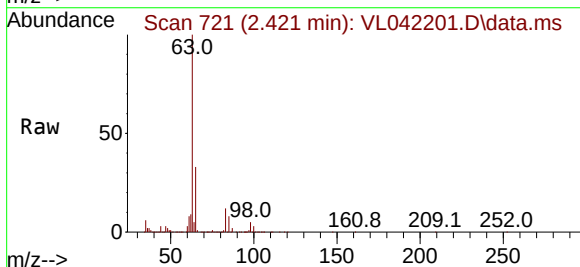
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

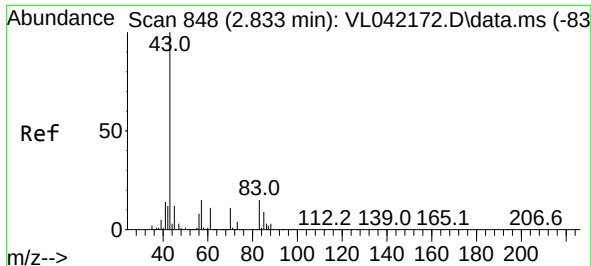
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 82938 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 7.8   | 5.5   | 8.3   |
| 42       | 11.5  | 8.6   | 13.0  |
| 44       | 5.1   | 6.2   | 9.4   |



#24  
1,1-Dichloroethane  
Concen: 9.730 ppbv  
RT: 2.421 min Scan# 721  
Delta R.T. 0.016 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 185830 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 5.0   | 2.3   | 6.8    |
| 100      | 2.9   | 1.6   | 4.7    |



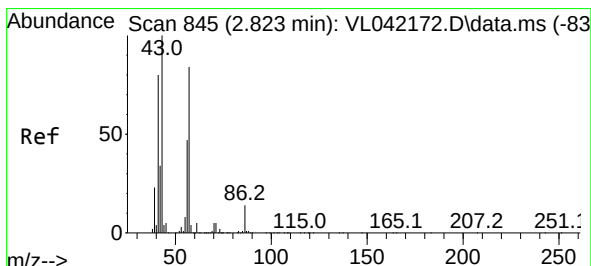
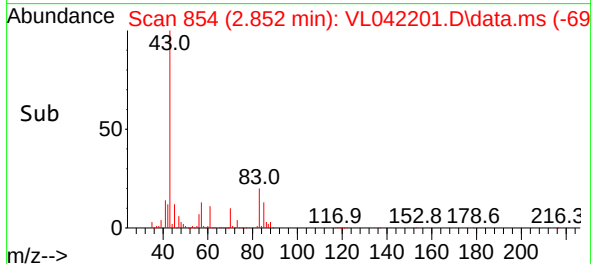
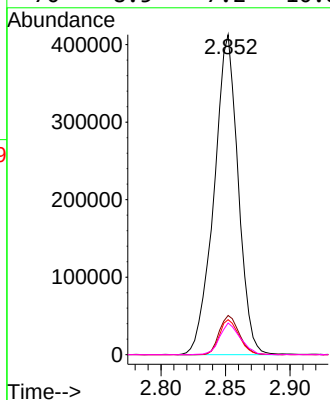
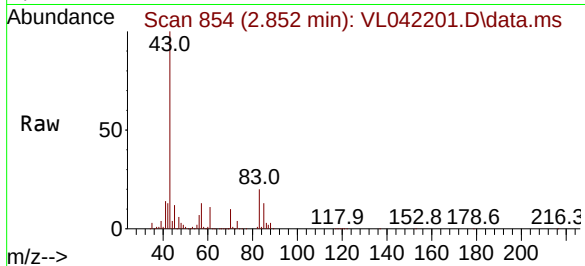


#25  
Ethyl Acetate  
Concen: 9.151 ppbv  
RT: 2.852 min Scan# 811  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 536366

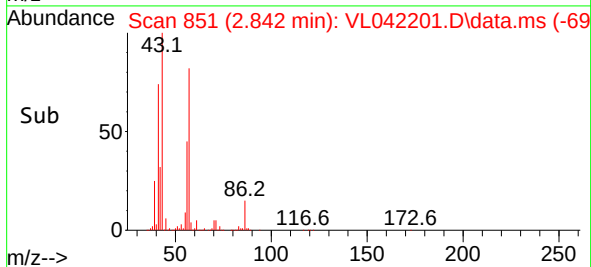
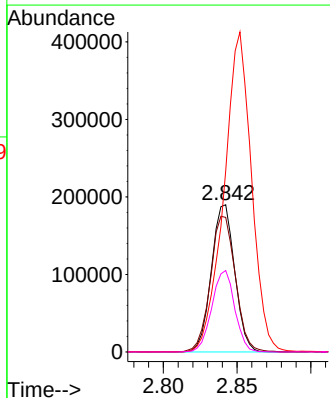
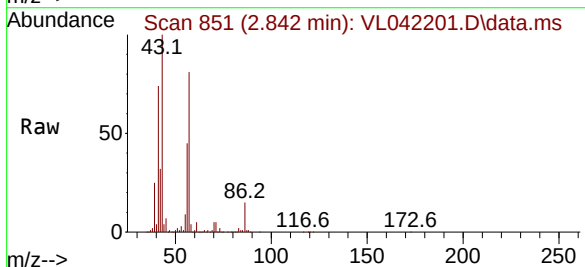
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.2  | 8.2   | 12.2  |
| 61  | 9.0   | 7.3   | 10.9  |
| 70  | 8.5   | 7.2   | 10.8  |

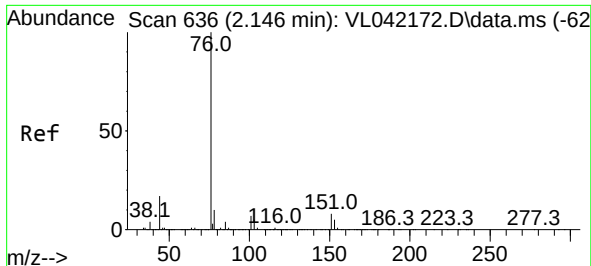


#26  
Hexane  
Concen: 9.236 ppbv  
RT: 2.842 min Scan# 851  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 57 Resp: 209103

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 98.8  | 76.6  | 114.8 |
| 43  | 257.3 | 207.8 | 311.8 |
| 56  | 54.3  | 43.6  | 65.4  |

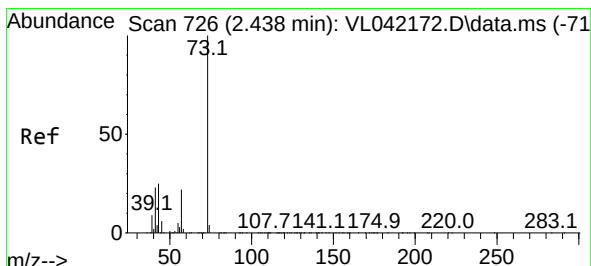
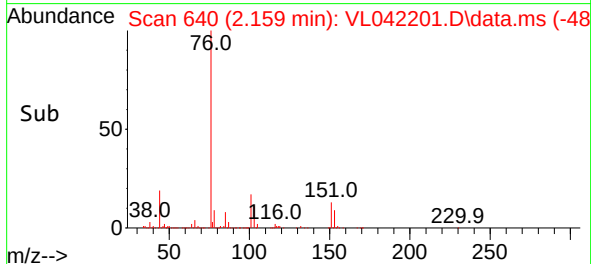
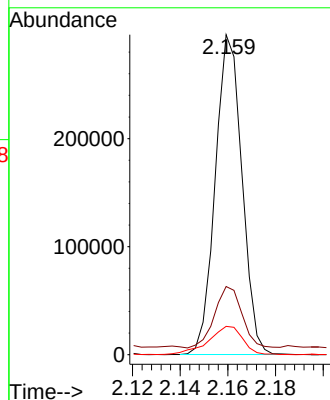
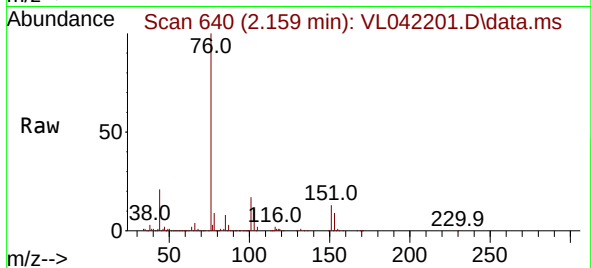




#27  
Carbon Disulfide  
Concen: 9.481 ppbv  
RT: 2.159 min Scan# 640  
Delta R.T. 0.013 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

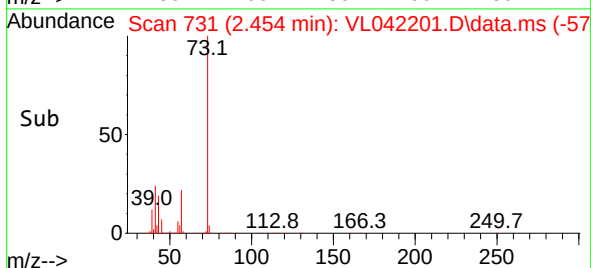
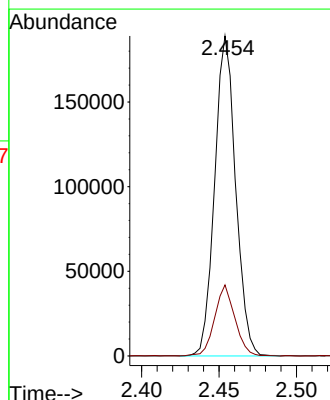
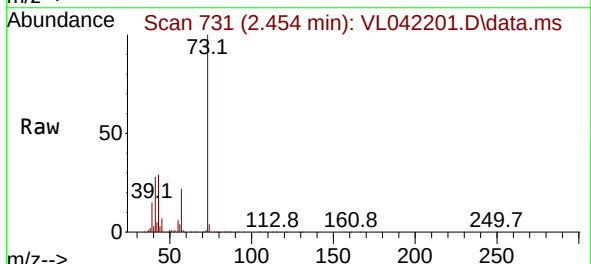
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

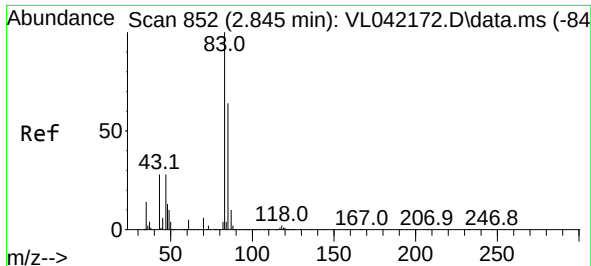
Tgt Ion: 76 Resp: 230171  
Ion Ratio Lower Upper  
76 100  
44 20.1 14.7 22.1  
78 11.4 9.3 13.9



#28  
Methyl tert-Butyl Ether  
Concen: 12.635 ppbv  
RT: 2.454 min Scan# 731  
Delta R.T. 0.016 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 73 Resp: 178093  
Ion Ratio Lower Upper  
73 100  
57 21.4 20.5 30.7





#29

Chloroform

Concen: 10.200 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Instrument :

MSVOA\_L

ClientSampleId :

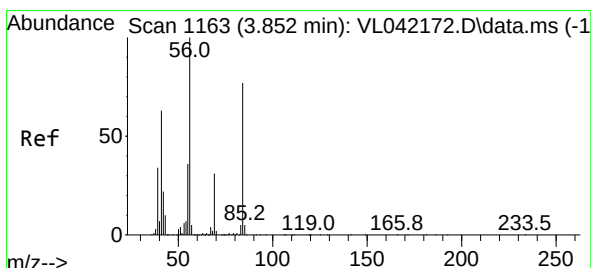
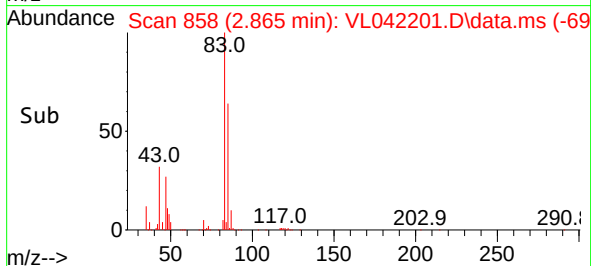
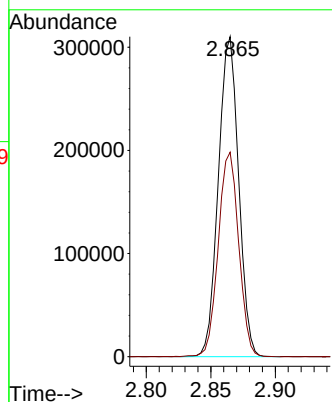
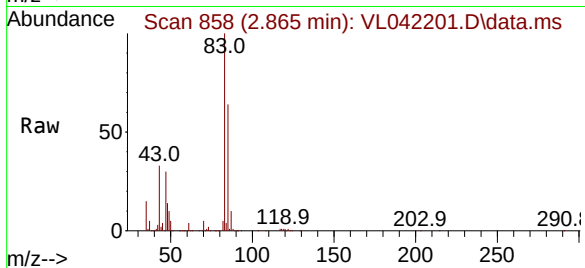
VSTDCCC010

Tgt Ion: 83 Resp: 337970

Ion Ratio Lower Upper

83 100

85 63.9 51.4 77.2



#30

Cyclohexane

Concen: 9.162 ppbv

RT: 3.878 min Scan# 1171

Delta R.T. 0.026 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

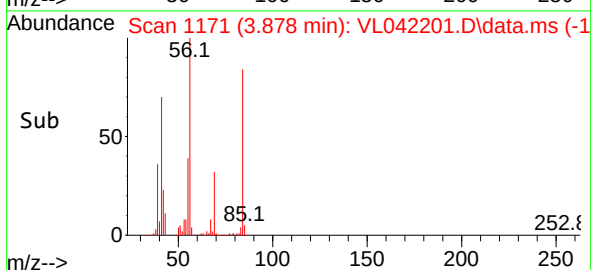
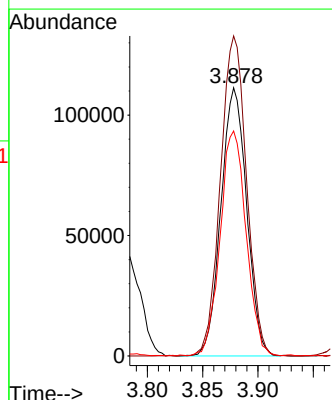
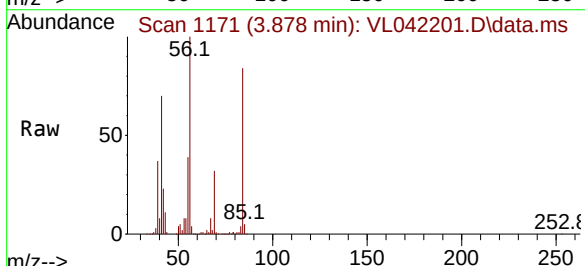
Tgt Ion: 84 Resp: 180110

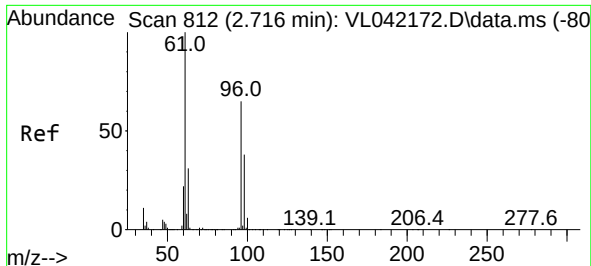
Ion Ratio Lower Upper

84 100

56 121.1 102.8 154.2

41 84.6 66.5 99.7

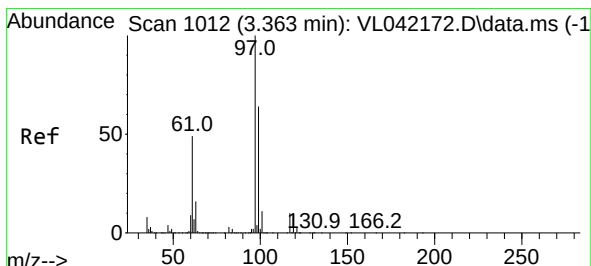
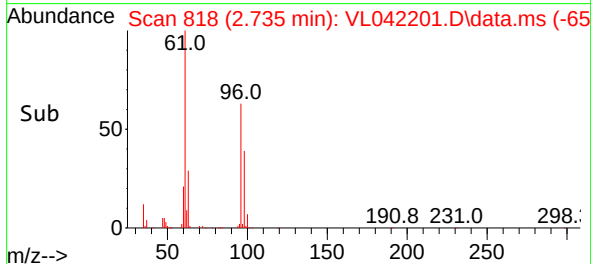
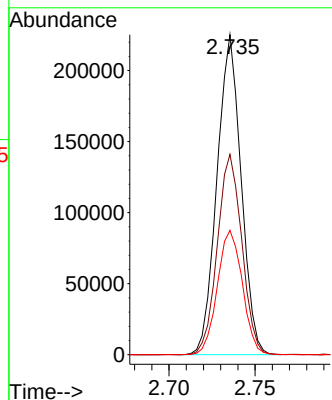
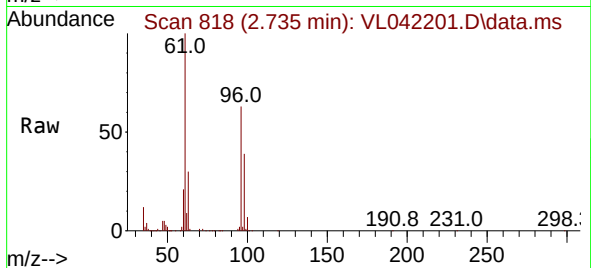




#31  
cis-1,2-Dichloroethene  
Concen: 9.545 ppbv  
RT: 2.735 min Scan# 812  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

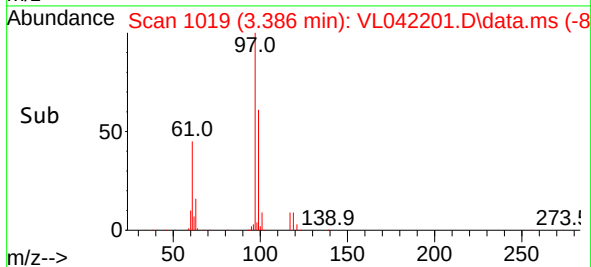
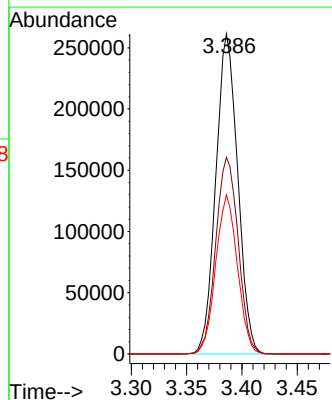
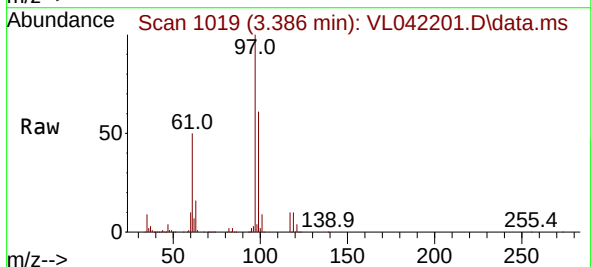
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

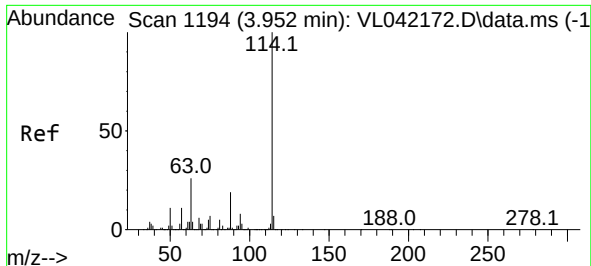
Tgt Ion: 61 Resp: 219389  
Ion Ratio Lower Upper  
61 100  
96 62.6 51.8 77.8  
98 38.9 30.6 46.0



#32  
1,1,1-Trichloroethane  
Concen: 9.483 ppbv  
RT: 3.386 min Scan# 1019  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 97 Resp: 359718  
Ion Ratio Lower Upper  
97 100  
99 63.0 51.5 77.3  
61 49.3 38.7 58.1

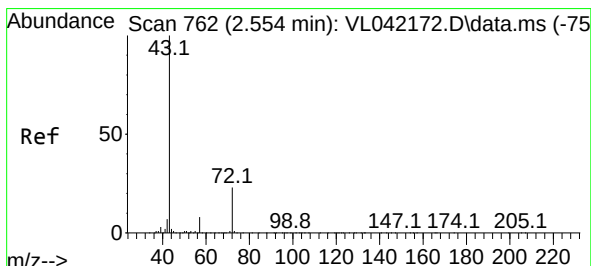
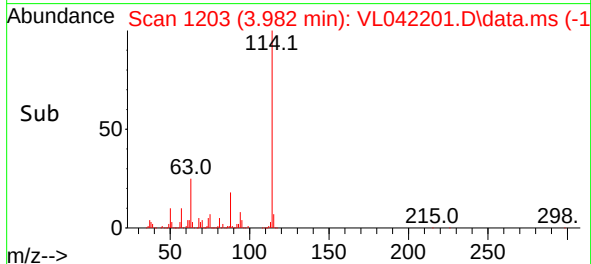
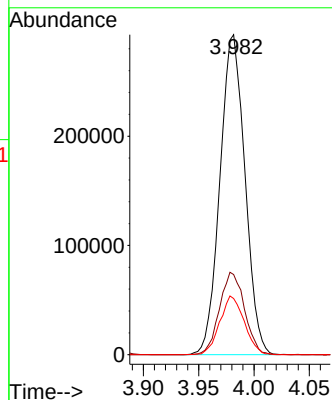
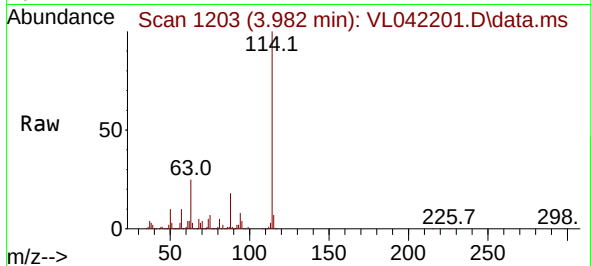




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.982 min Scan# 1194  
Delta R.T. 0.029 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

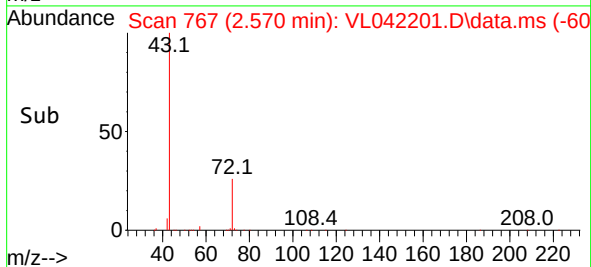
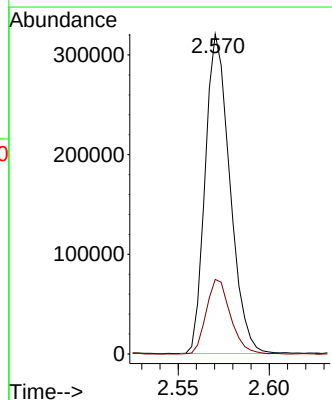
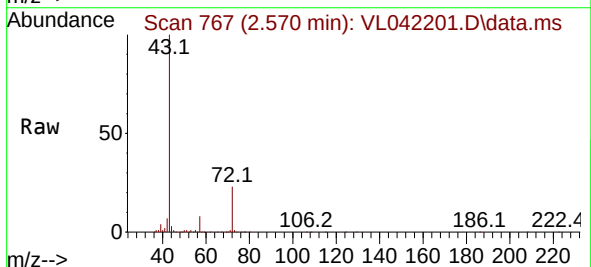
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

Tgt Ion:114 Resp: 460403  
Ion Ratio Lower Upper  
114 100  
63 25.8 20.7 31.1  
88 18.0 15.0 22.4

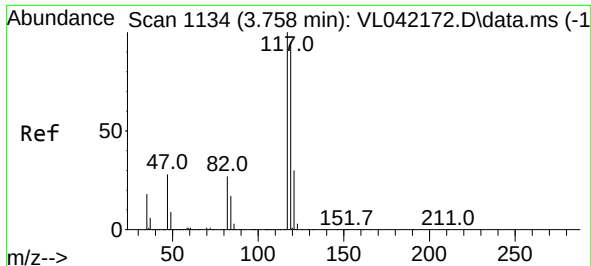


#34  
2-Butanone  
Concen: 9.026 ppbv  
RT: 2.570 min Scan# 767  
Delta R.T. 0.016 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 43 Resp: 301334  
Ion Ratio Lower Upper  
43 100  
72 23.0 18.2 27.2



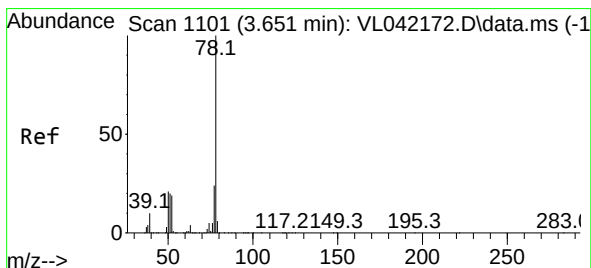
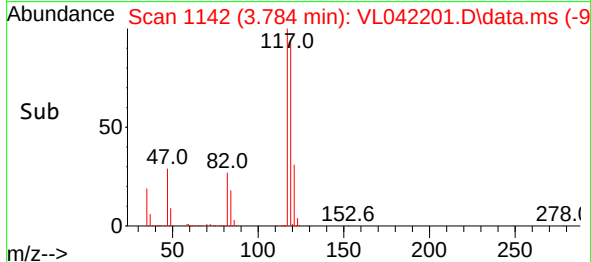
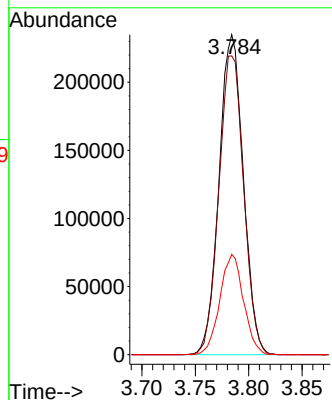
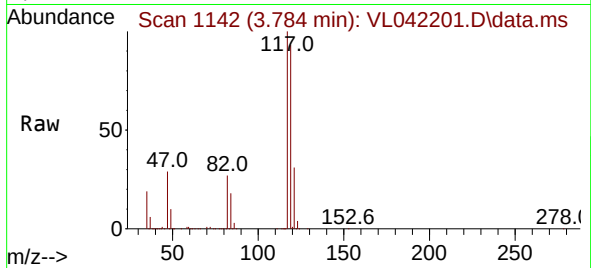




#35  
Carbon Tetrachloride  
Concen: 10.335 ppbv  
RT: 3.784 min Scan# 1142  
Delta R.T. 0.026 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

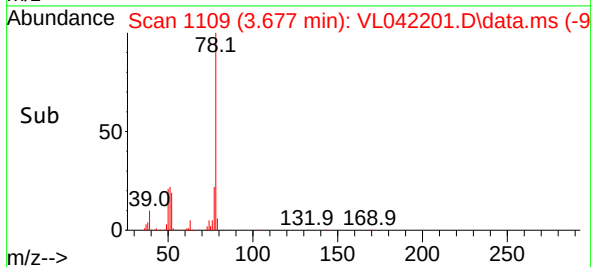
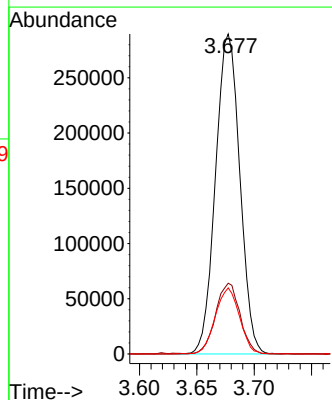
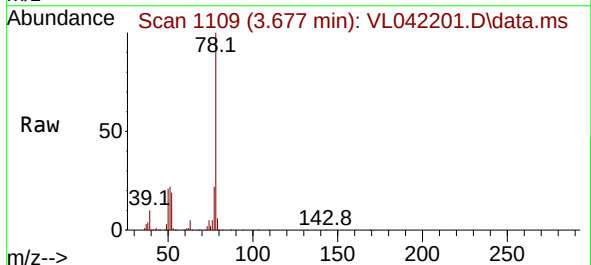
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

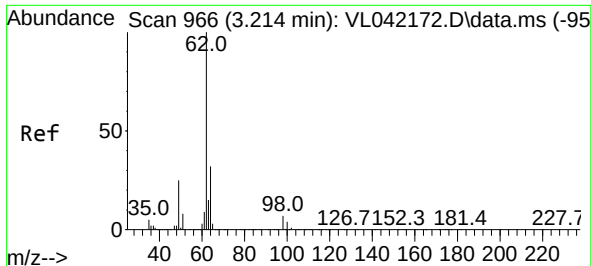
Tgt Ion:117 Resp: 371691  
Ion Ratio Lower Upper  
117 100  
119 93.4 76.2 114.2  
121 31.3 24.2 36.4



#36  
Benzene  
Concen: 9.350 ppbv  
RT: 3.677 min Scan# 1109  
Delta R.T. 0.026 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 78 Resp: 426758  
Ion Ratio Lower Upper  
78 100  
77 22.1 19.1 28.7  
50 20.6 16.6 24.8

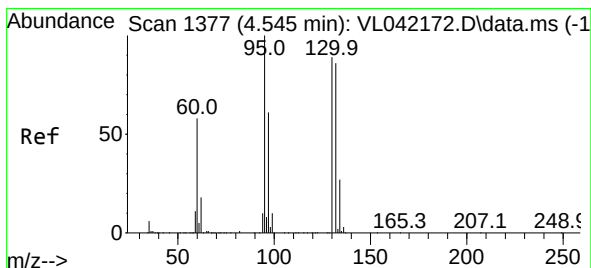
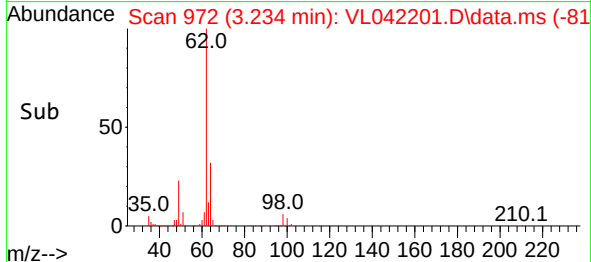
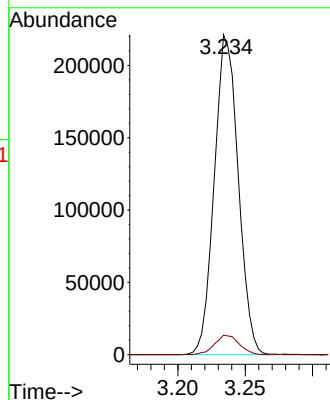
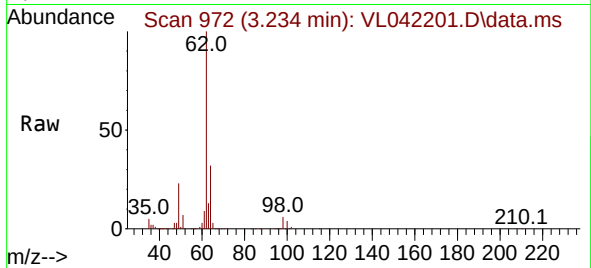




#37  
1,2-Dichloroethane  
Concen: 10.453 ppbv  
RT: 3.234 min Scan# 91  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

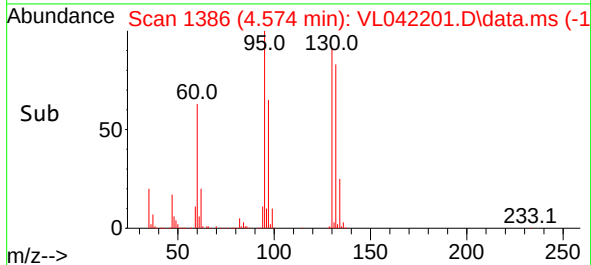
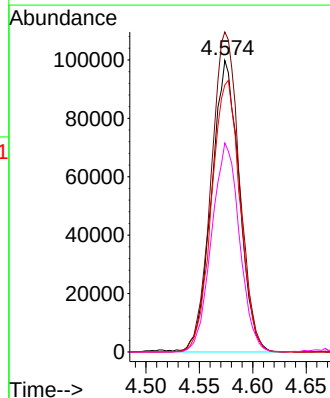
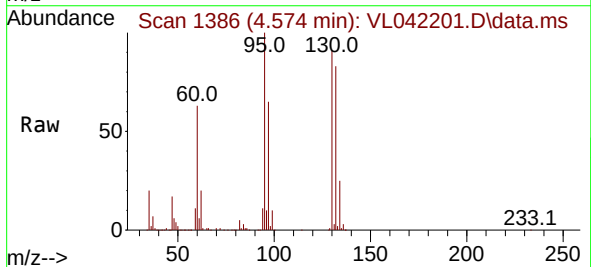
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

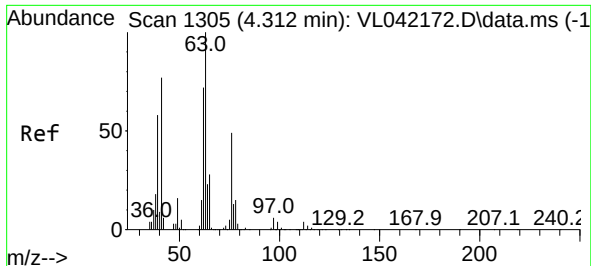
Tgt Ion: 62 Resp: 273137  
Ion Ratio Lower Upper  
62 100  
98 6.3 5.4 8.2



#38  
Trichloroethene  
Concen: 9.452 ppbv  
RT: 4.574 min Scan# 1386  
Delta R.T. 0.029 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion:130 Resp: 179999  
Ion Ratio Lower Upper  
130 100  
95 109.7 89.8 134.8  
132 91.5 77.4 116.2  
97 71.6 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.212 ppbv

RT: 4.338 min Scan# 11

Delta R.T. 0.026 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Instrument :

MSVOA\_1

ClientSampleId :

VSTDCCC010

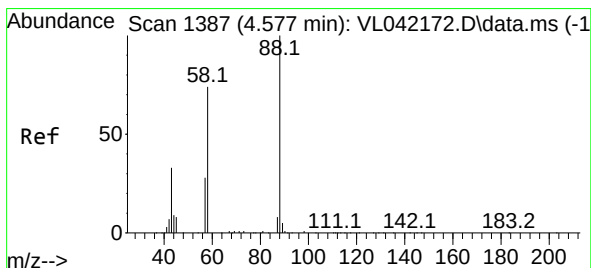
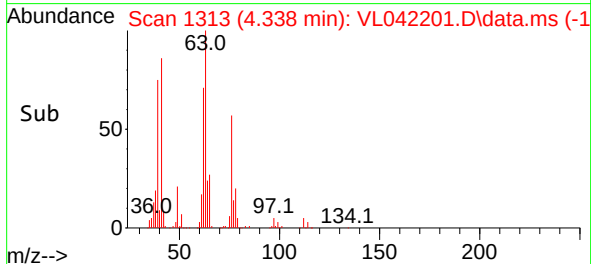
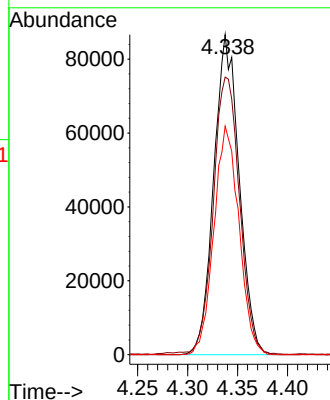
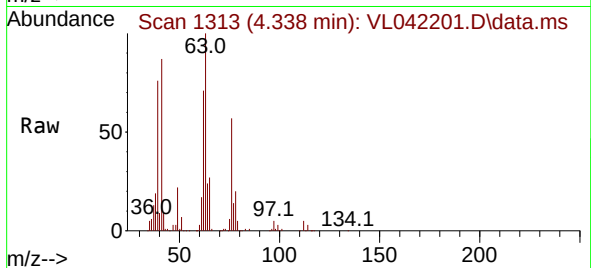
Tgt Ion: 63 Resp: 153124

Ion Ratio Lower Upper

63 100

41 86.5 61.7 92.5

62 71.4 57.6 86.4



#40

1,4-Dioxane

Concen: 5.282 ppbv

RT: 4.613 min Scan# 1398

Delta R.T. 0.036 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Tgt Ion: 88 Resp: 46600

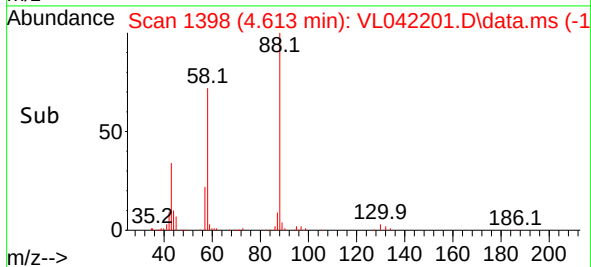
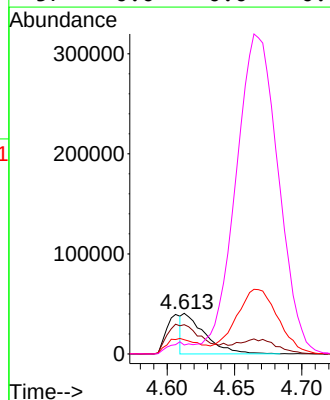
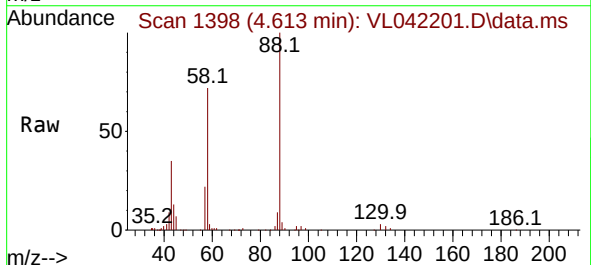
Ion Ratio Lower Upper

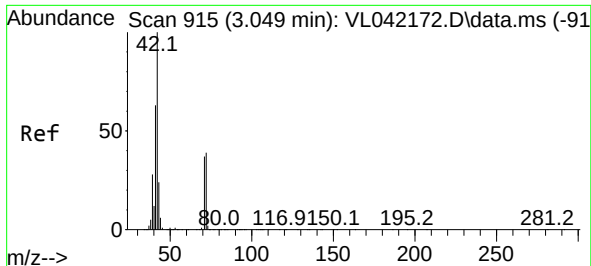
88 100

58 0.0 62.7 94.1#

43 56.5 23.0 34.4#

57 0.0 0.0 0.0

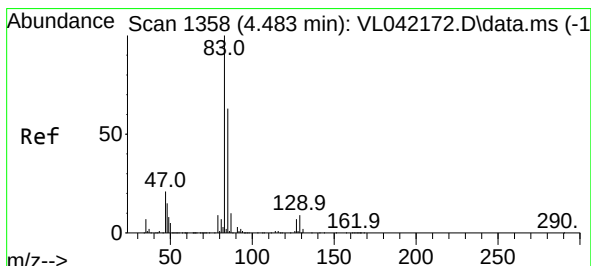
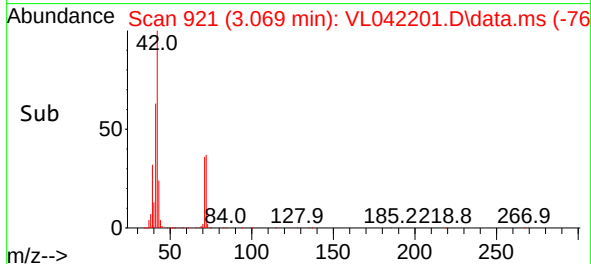
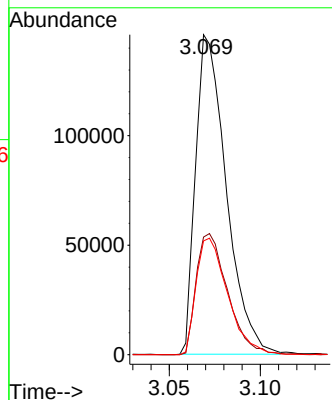
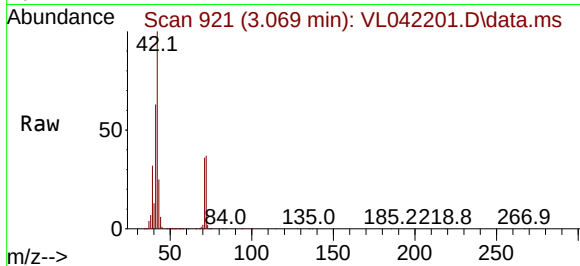




#41  
Tetrahydrofuran  
Concen: 8.886 ppbv  
RT: 3.069 min Scan# 915  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

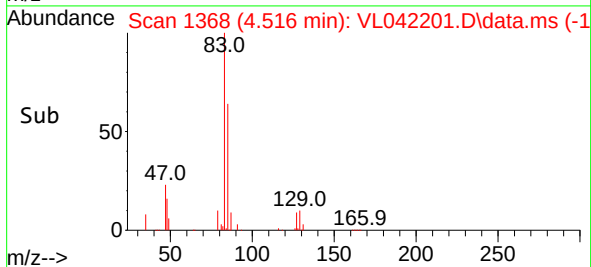
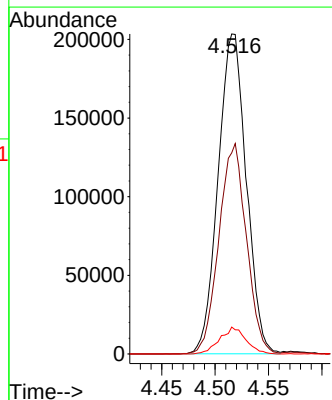
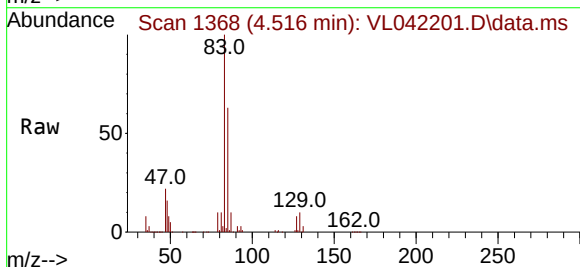
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

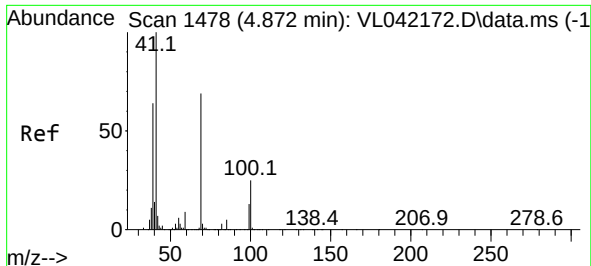
Tgt Ion: 42 Resp: 170829  
Ion Ratio Lower Upper  
42 100  
72 38.9 31.4 47.0  
71 37.7 30.2 45.4



#42  
Bromodichloromethane  
Concen: 10.365 ppbv  
RT: 4.516 min Scan# 1368  
Delta R.T. 0.032 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 83 Resp: 373399  
Ion Ratio Lower Upper  
83 100  
85 62.9 50.5 75.7  
127 8.4 5.9 8.9

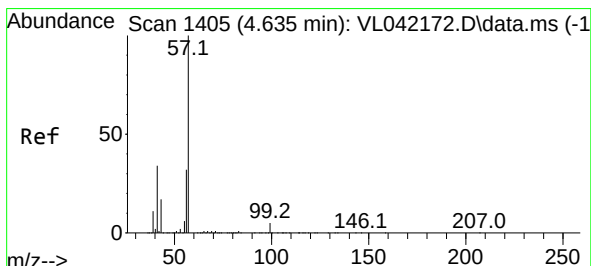
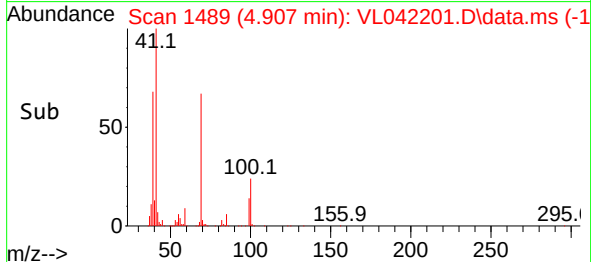
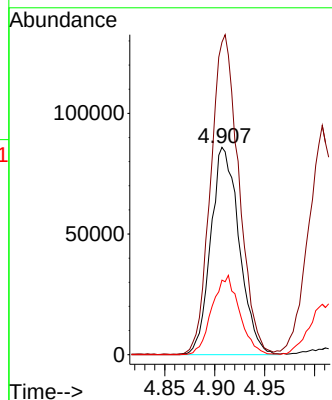
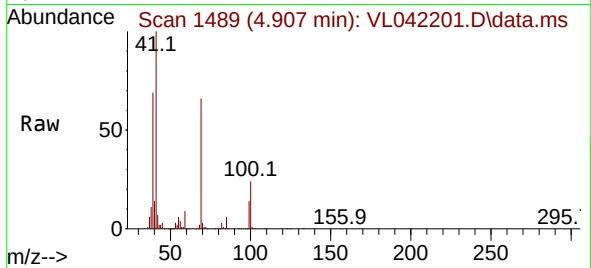




#43  
Methyl Methacrylate  
Concen: 8.814 ppbv  
RT: 4.907 min Scan# 1414  
Delta R.T. 0.036 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

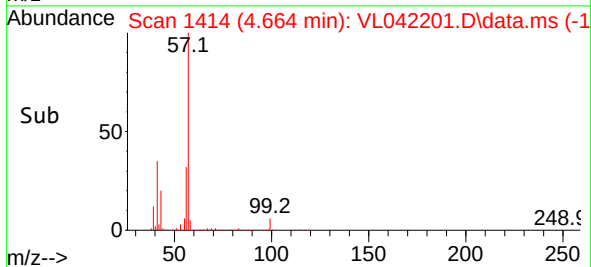
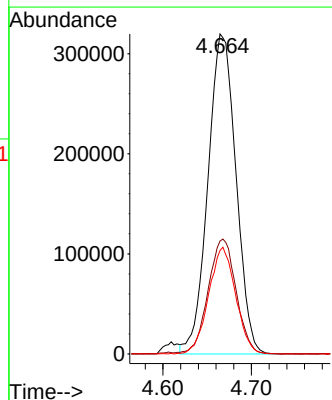
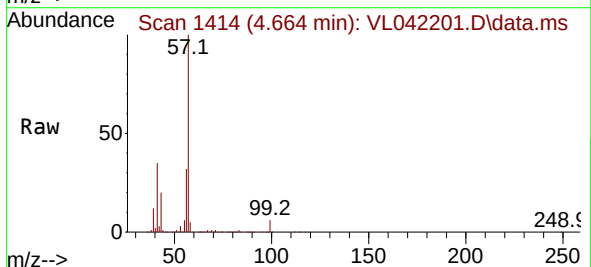
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

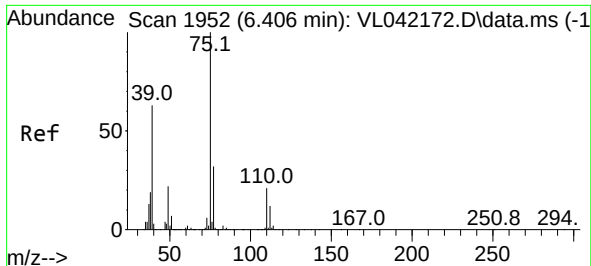
Tgt Ion: 69 Resp: 170312  
Ion Ratio Lower Upper  
69 100  
41 152.5 123.8 185.6  
100 37.0 28.4 42.6



#44  
2,2,4-Trimethylpentane  
Concen: 9.143 ppbv  
RT: 4.664 min Scan# 1414  
Delta R.T. 0.029 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 57 Resp: 705253  
Ion Ratio Lower Upper  
57 100  
41 36.1 26.8 40.2  
56 32.2 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 9.167 ppbv

RT: 6.445 min Scan# 1952

Delta R.T. 0.039 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Instrument :

MSVOA\_L

ClientSampleId :

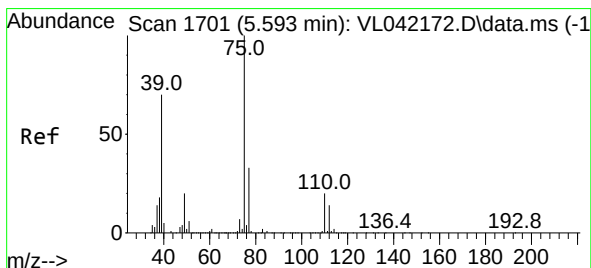
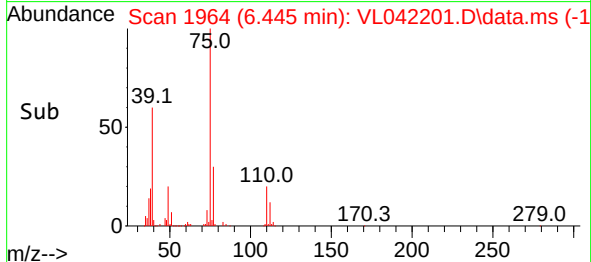
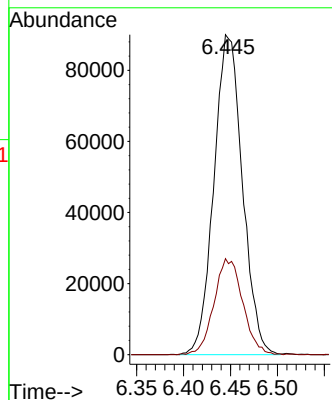
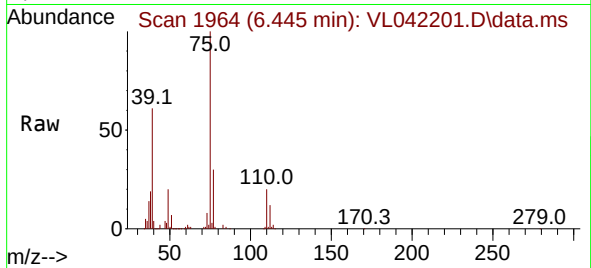
VSTDCCC010

Tgt Ion: 75 Resp: 190040

Ion Ratio Lower Upper

75 100

77 30.0 26.0 39.0



#46

cis-1,3-Dichloropropene

Concen: 9.158 ppbv

RT: 5.632 min Scan# 1713

Delta R.T. 0.039 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

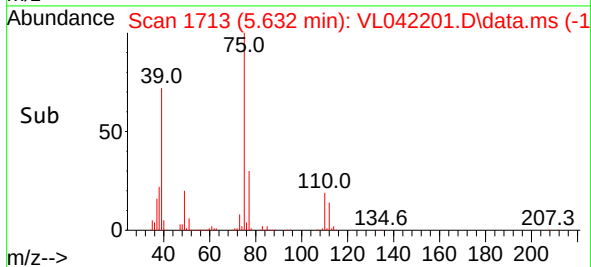
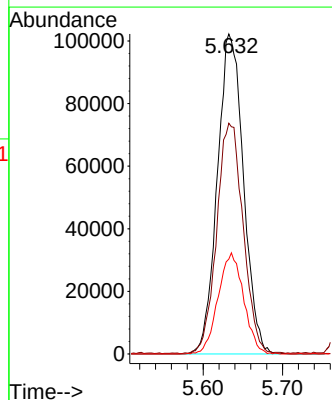
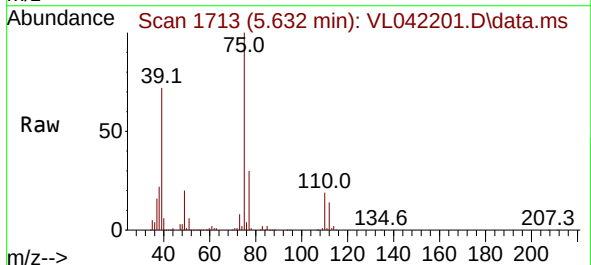
Tgt Ion: 75 Resp: 232713

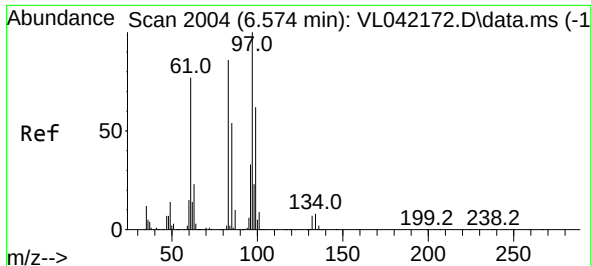
Ion Ratio Lower Upper

75 100

39 72.0 55.8 83.6

77 29.7 26.0 39.0

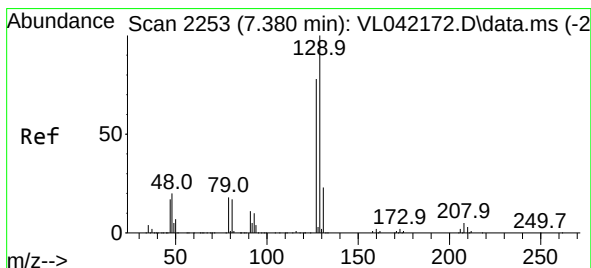
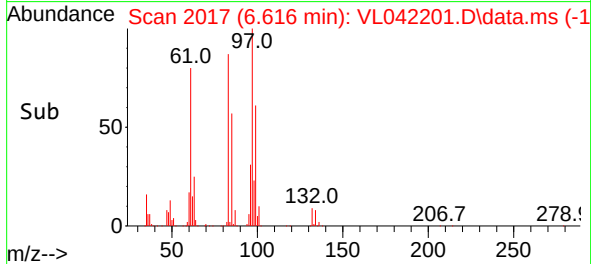
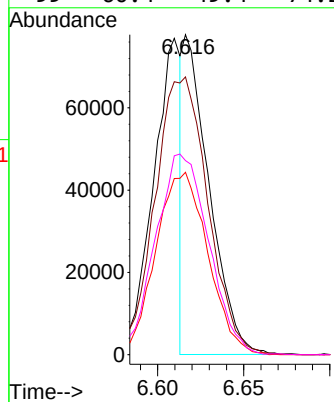
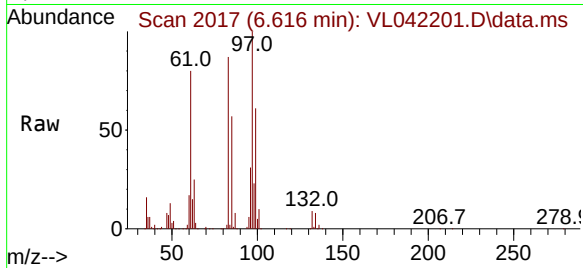




#47  
1,1,2-Trichloroethane  
Concen: 4.620 ppbv  
RT: 6.616 min Scan# 2004  
Delta R.T. 0.042 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

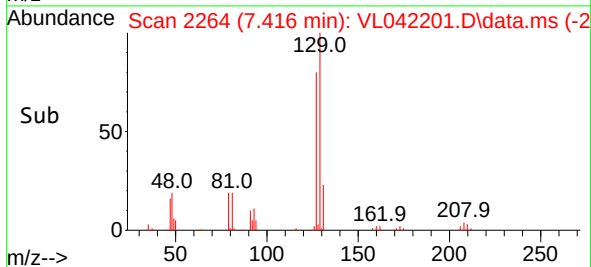
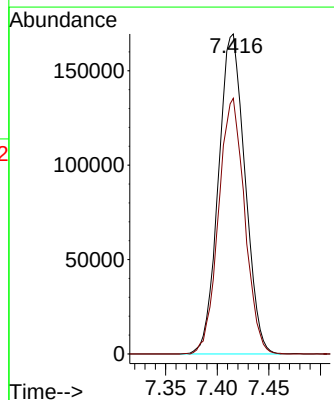
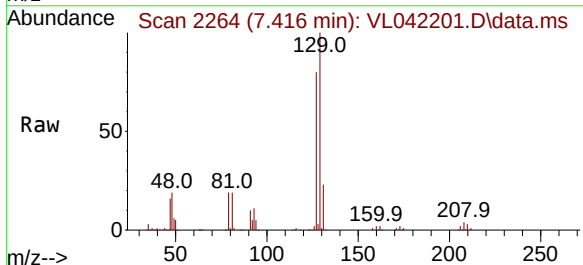
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

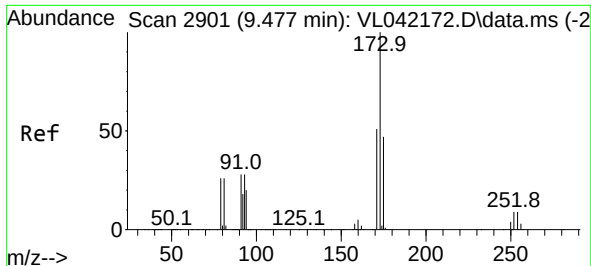
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 81186 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 86.7  | 69.2  | 103.8 |
| 85       | 57.1  | 43.1  | 64.7  |
| 99       | 60.4  | 49.4  | 74.2  |



#48  
Dibromochloromethane  
Concen: 10.186 ppbv  
RT: 7.416 min Scan# 2264  
Delta R.T. 0.036 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 303330 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 78.5  | 39.1  | 117.2  |





#49

Bromoform

Concen: 9.780 ppbv

RT: 9.503 min Scan# 2901

Delta R.T. 0.026 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

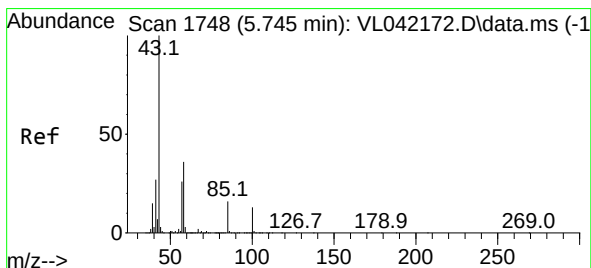
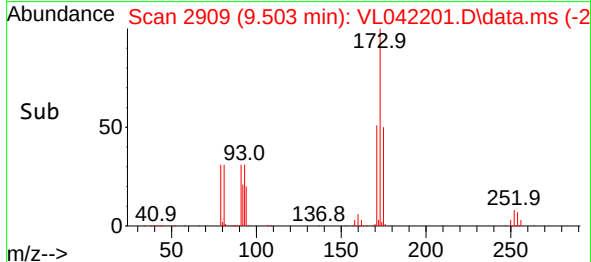
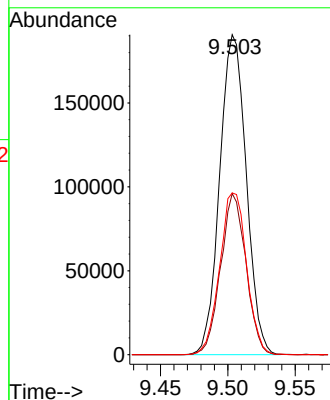
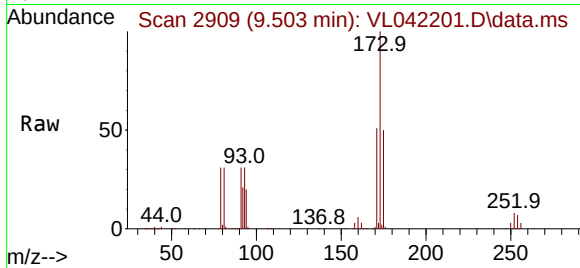
Tgt Ion:173 Resp: 261484

Ion Ratio Lower Upper

173 100

175 47.9 38.6 57.8

171 51.3 41.8 62.6



#50

4-Methyl-2-Pentanone

Concen: 8.261 ppbv

RT: 5.791 min Scan# 1762

Delta R.T. 0.045 min

Lab File: VL042201.D

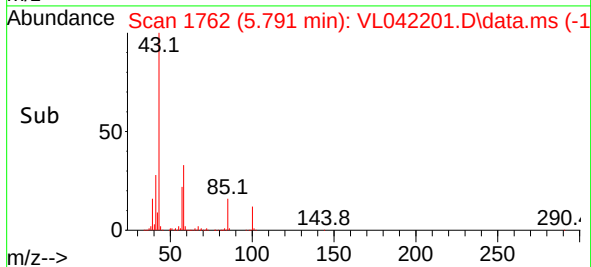
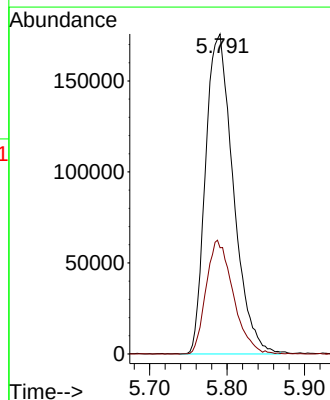
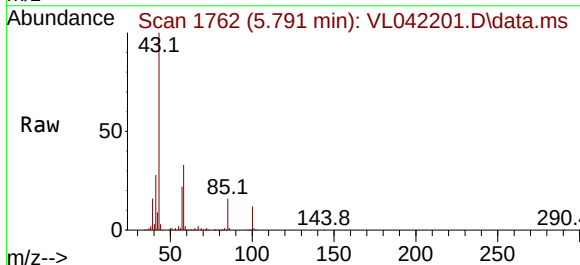
Acq: 31 Mar 2025 08:51

Tgt Ion: 43 Resp: 437050

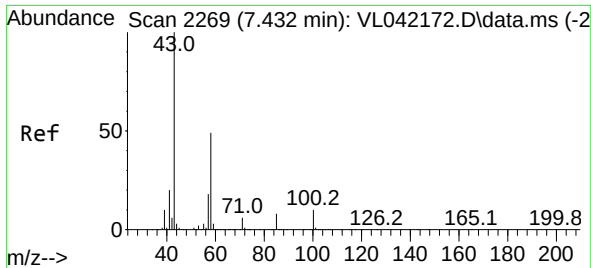
Ion Ratio Lower Upper

43 100

58 34.8 29.0 43.6



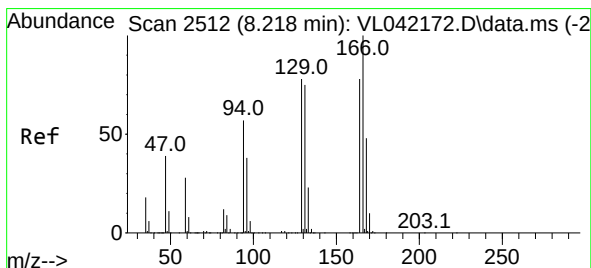
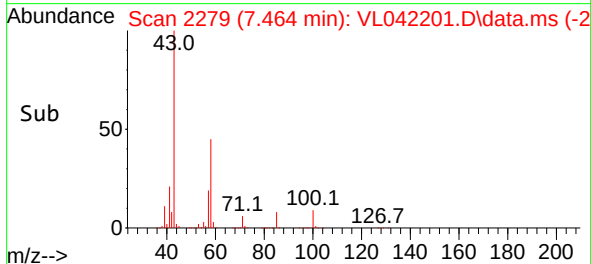
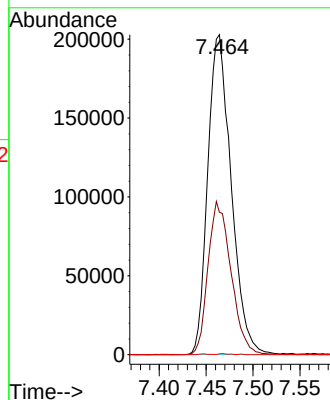
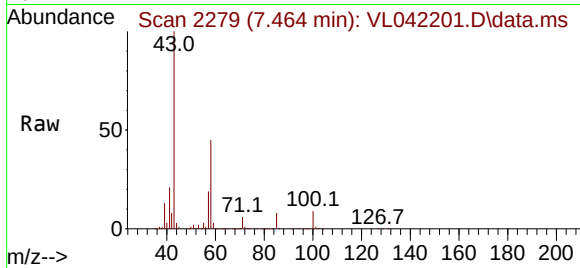




#51  
2-Hexanone  
Concen: 8.093 ppbv  
RT: 7.464 min Scan# 21  
Delta R.T. 0.032 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

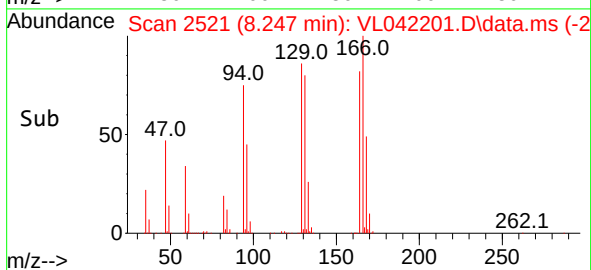
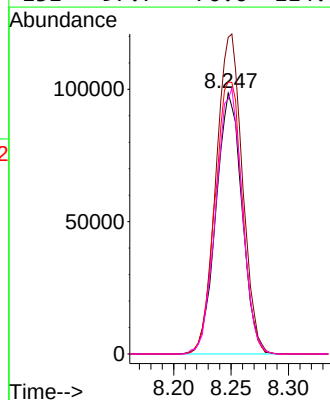
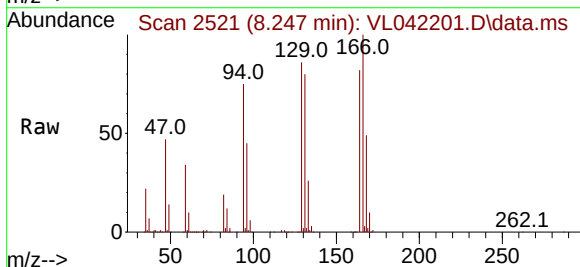
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

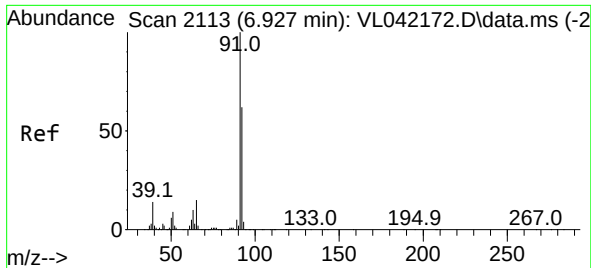
Tgt Ion: 43 Resp: 351622  
Ion Ratio Lower Upper  
43 100  
58 47.0 39.7 59.5  
98 0.3 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 8.574 ppbv  
RT: 8.247 min Scan# 2521  
Delta R.T. 0.029 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 164 Resp: 155203  
Ion Ratio Lower Upper  
164 100  
166 121.4 102.5 153.7  
129 104.3 79.8 119.8  
131 97.7 76.6 114.8

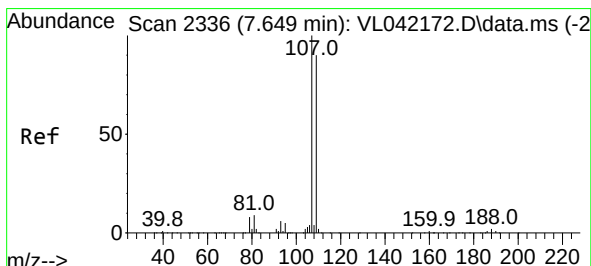
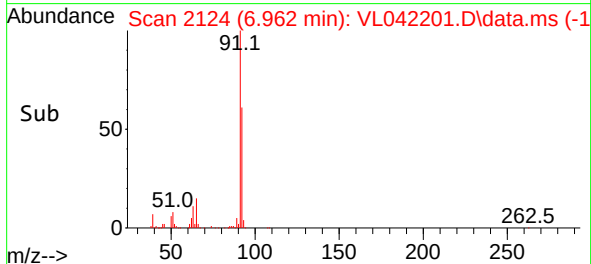
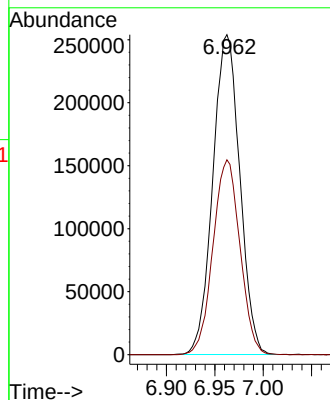
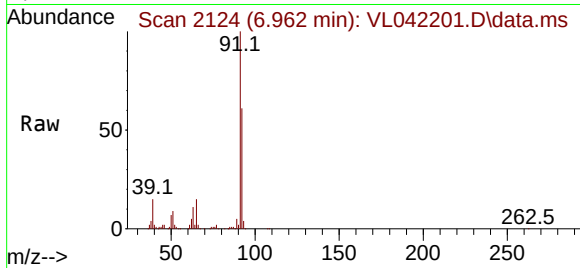




#53  
Toluene  
Concen: 9.106 ppbv  
RT: 6.962 min Scan# 2113  
Delta R.T. 0.036 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

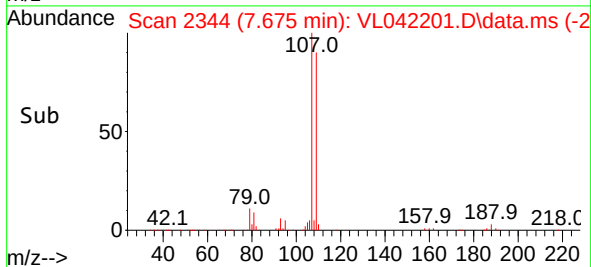
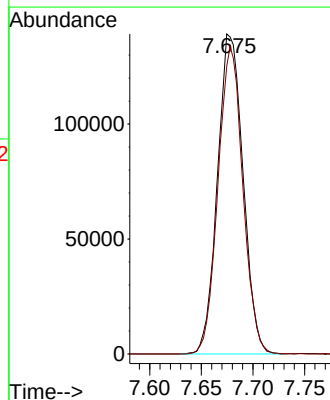
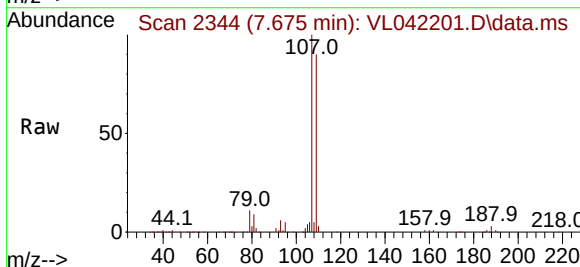
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

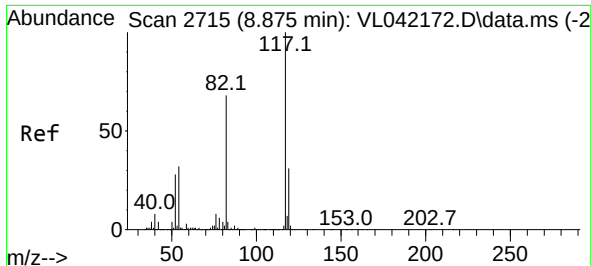
Tgt Ion: 91 Resp: 492717  
Ion Ratio Lower Upper  
91 100  
92 60.9 48.4 72.6



#54  
1,2-Dibromoethane  
Concen: 9.771 ppbv  
RT: 7.675 min Scan# 2344  
Delta R.T. 0.026 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 107 Resp: 239347  
Ion Ratio Lower Upper  
107 100  
109 90.0 72.2 108.4

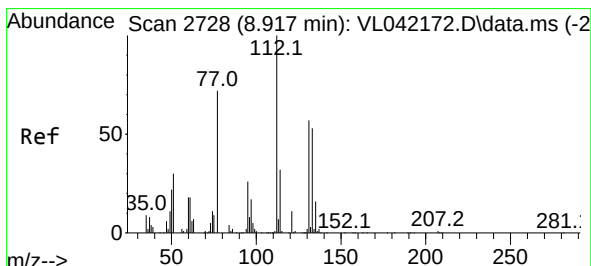
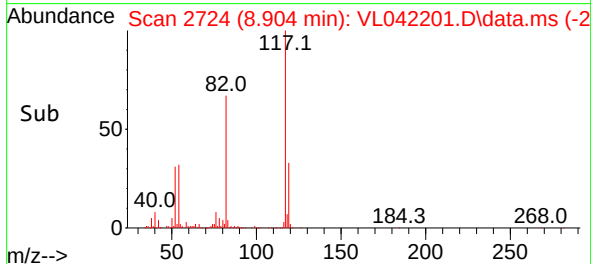
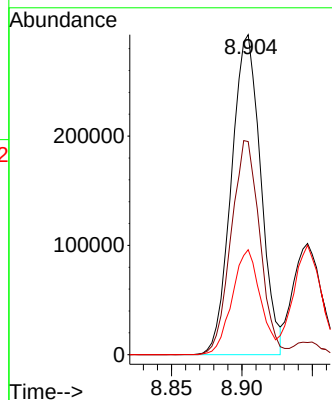
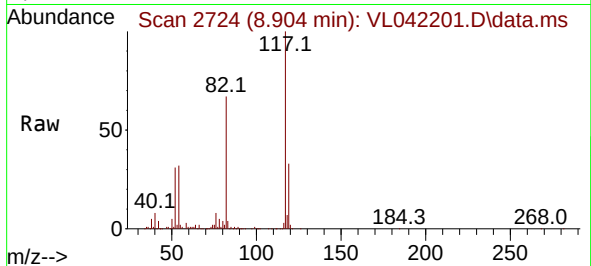




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.904 min Scan# 21  
Delta R.T. 0.029 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

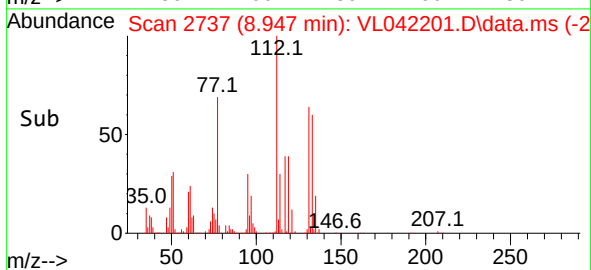
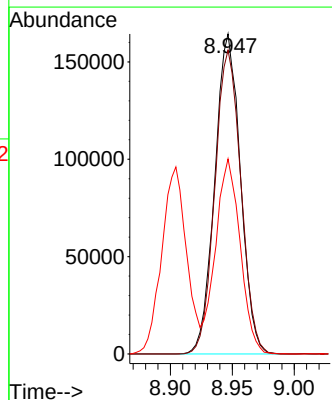
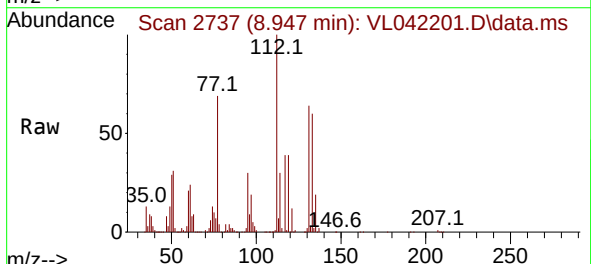
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

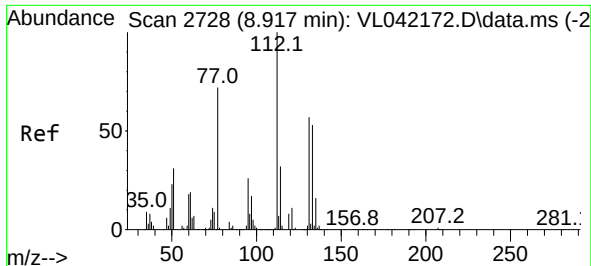
Tgt Ion:117 Resp: 424671  
Ion Ratio Lower Upper  
117 100  
82 69.3 55.8 83.6  
119 31.7 25.5 38.3



#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.136 ppbv  
RT: 8.947 min Scan# 2737  
Delta R.T. 0.029 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion:131 Resp: 236930  
Ion Ratio Lower Upper  
131 100  
133 96.5 76.6 114.8  
119 60.1 49.8 74.6

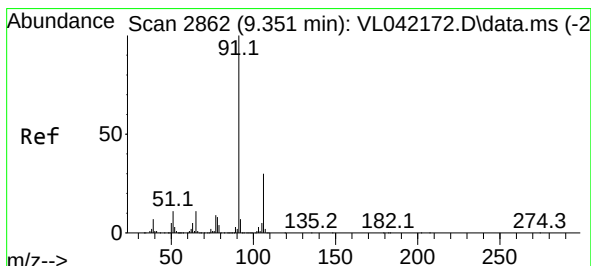
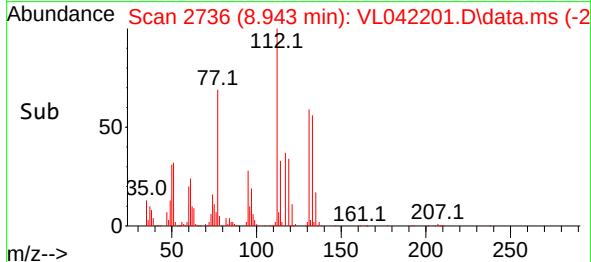
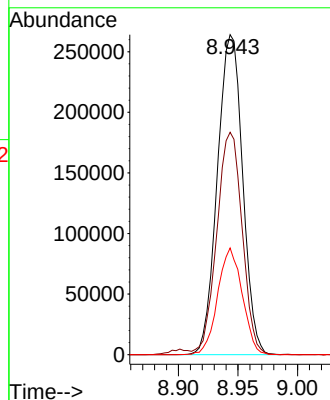
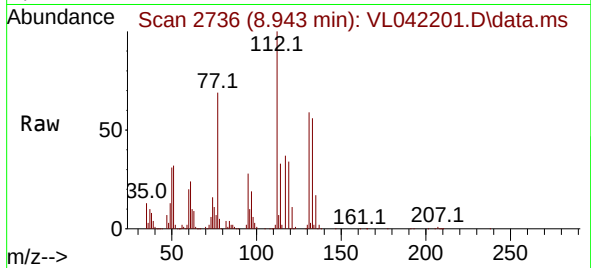




#57  
Chlorobenzene  
Concen: 9.669 ppbv  
RT: 8.943 min Scan# 21  
Delta R.T. 0.026 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

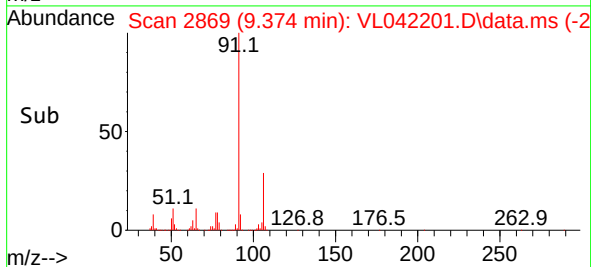
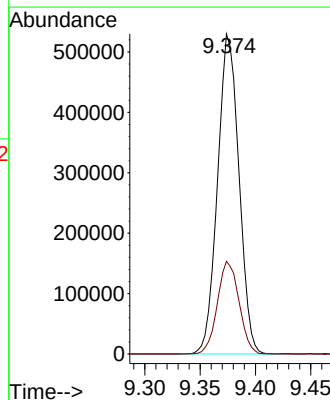
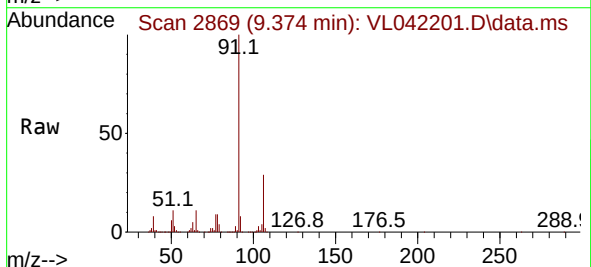
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

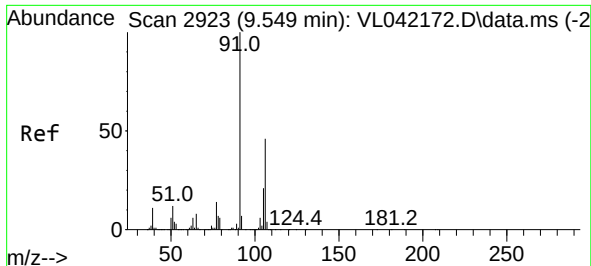
Tgt Ion:112 Resp: 389475  
Ion Ratio Lower Upper  
112 100  
77 69.5 58.2 87.2  
114 33.4 29.1 35.5



#58  
Ethyl Benzene  
Concen: 9.446 ppbv  
RT: 9.374 min Scan# 2869  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 91 Resp: 712533  
Ion Ratio Lower Upper  
91 100  
106 29.0 24.2 36.2





#59

m/p-Xylene

Concen: 9.197 ppbv

RT: 9.571 min Scan# 2923

Delta R.T. 0.023 min

Lab File: VL042201.D

Acq: 31 Mar 2025 08:51

Instrument :

MSVOA\_1

ClientSampleId :

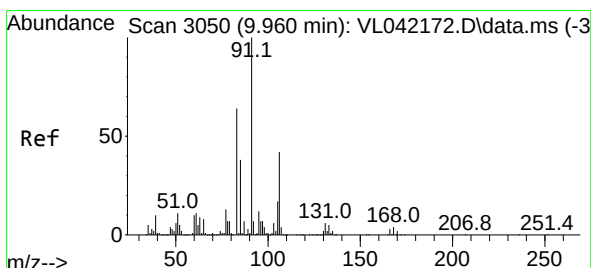
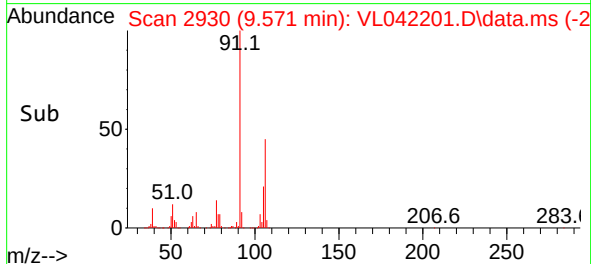
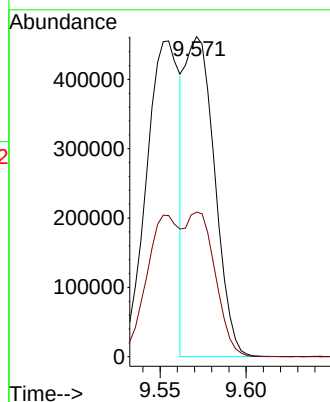
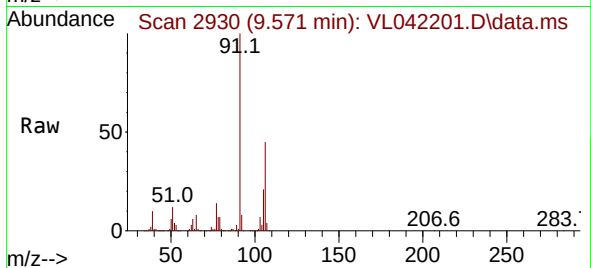
VSTDCCC010

Tgt Ion: 91 Resp: 553998

Ion Ratio Lower Upper

91 100

106 95.0 36.4 54.6#



#60

o-Xylene

Concen: 9.526 ppbv

RT: 9.986 min Scan# 3058

Delta R.T. 0.026 min

Lab File: VL042201.D

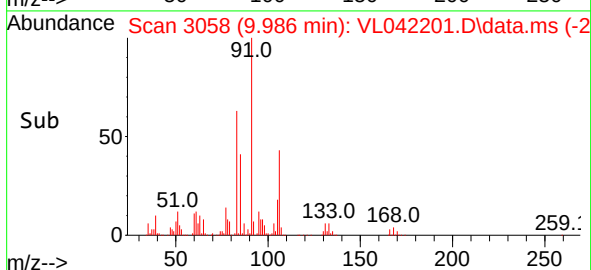
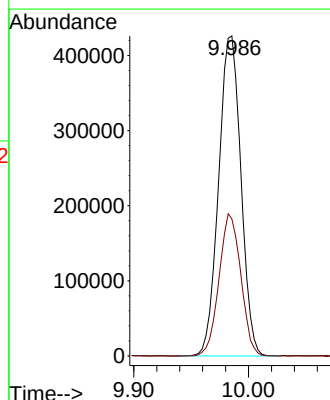
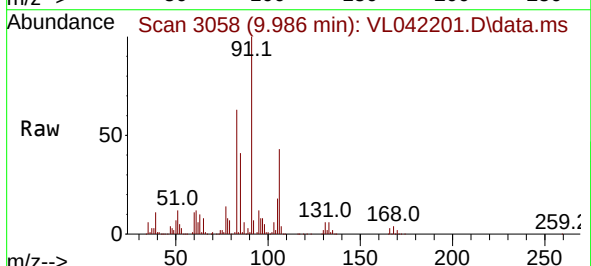
Acq: 31 Mar 2025 08:51

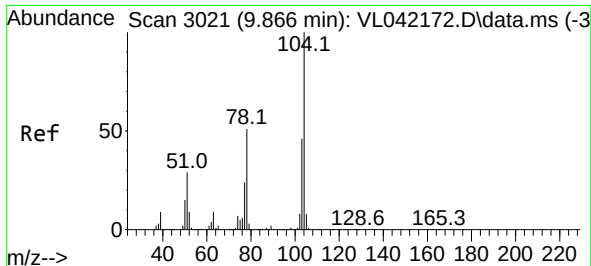
Tgt Ion: 91 Resp: 575224

Ion Ratio Lower Upper

91 100

106 43.3 20.8 62.5

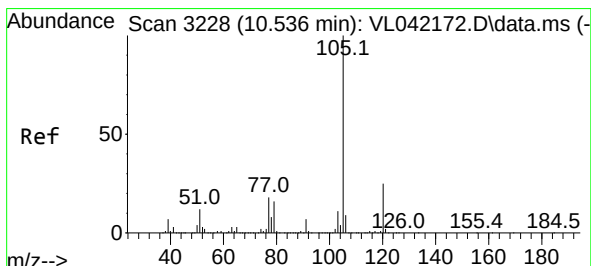
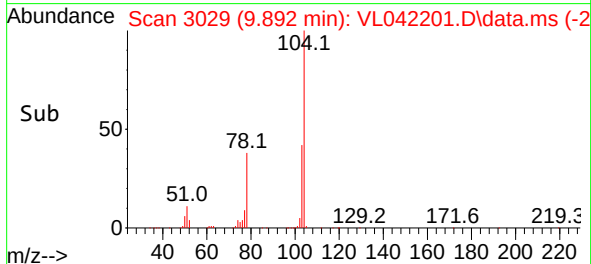
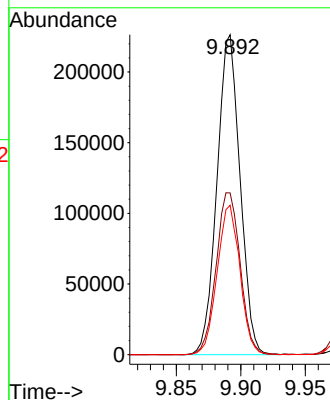
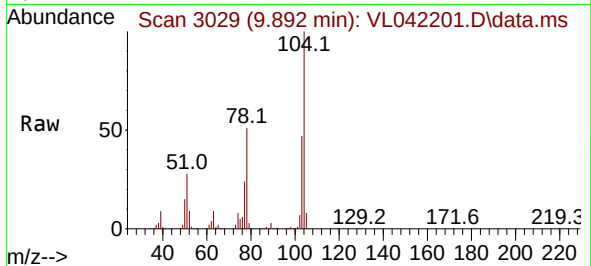




#61  
Styrene  
Concen: 9.424 ppbv  
RT: 9.892 min Scan# 3021  
Delta R.T. 0.026 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

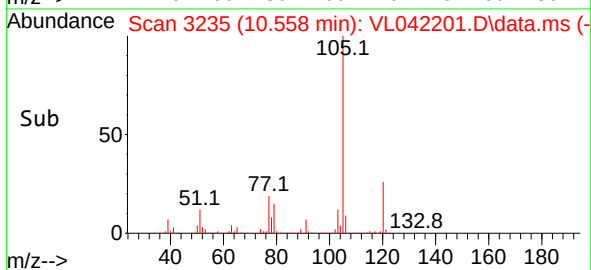
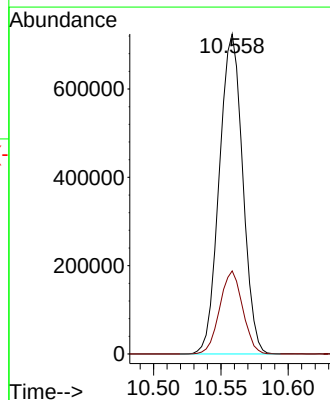
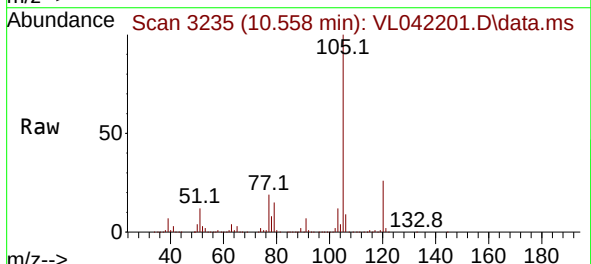
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

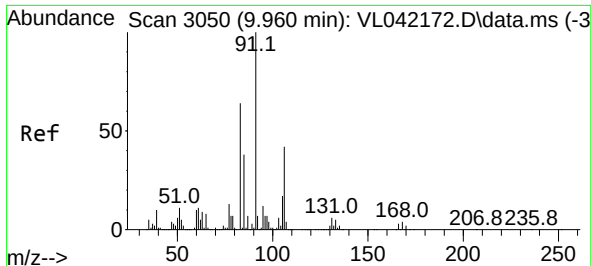
Tgt Ion:104 Resp: 281518  
Ion Ratio Lower Upper  
104 100  
78 52.6 41.8 62.6  
103 46.2 37.0 55.4



#62  
Isopropylbenzene  
Concen: 9.689 ppbv  
RT: 10.558 min Scan# 3235  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion:105 Resp: 874894  
Ion Ratio Lower Upper  
105 100  
120 25.4 19.9 29.9

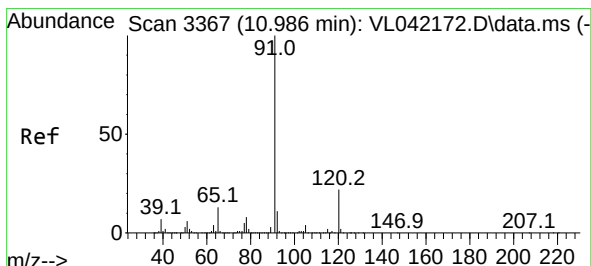
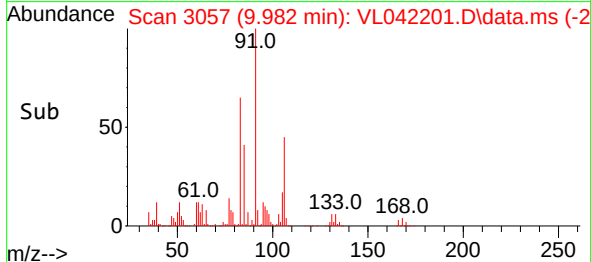
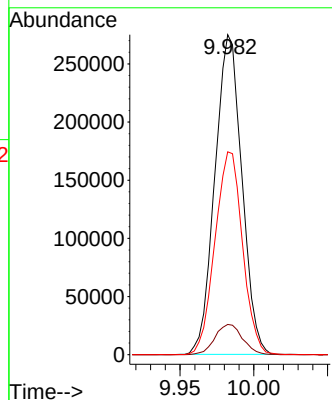
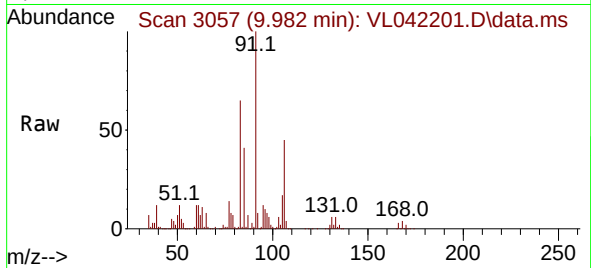




#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.518 ppbv  
RT: 9.982 min Scan# 3050  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

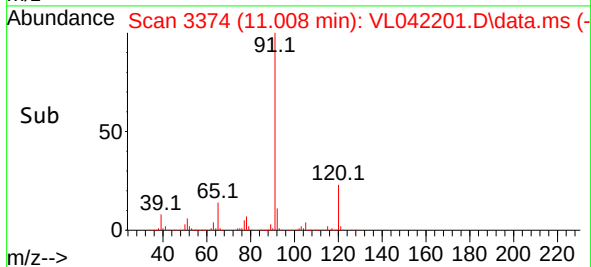
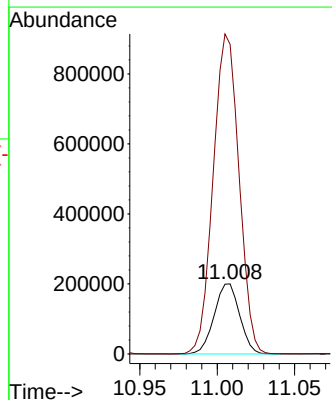
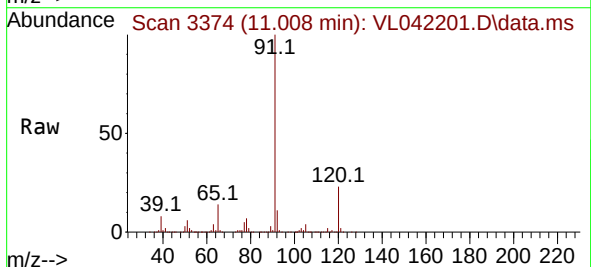
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

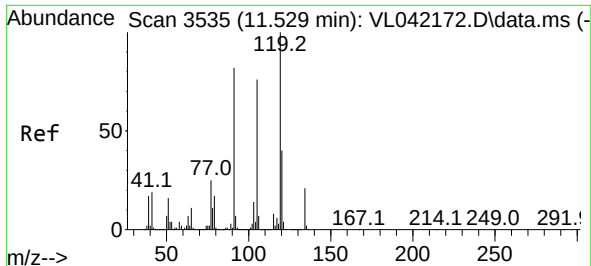
Tgt Ion: 83 Resp: 349199  
Ion Ratio Lower Upper  
83 100  
131 9.8 4.8 14.4  
85 64.9 32.5 97.5



#64  
n-propylbenzene  
Concen: 9.826 ppbv  
RT: 11.008 min Scan# 3374  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 120 Resp: 228400  
Ion Ratio Lower Upper  
120 100  
91 463.7 376.9 565.3

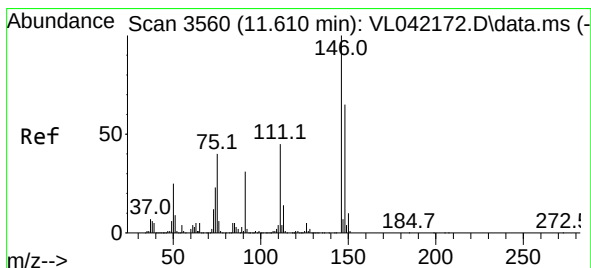
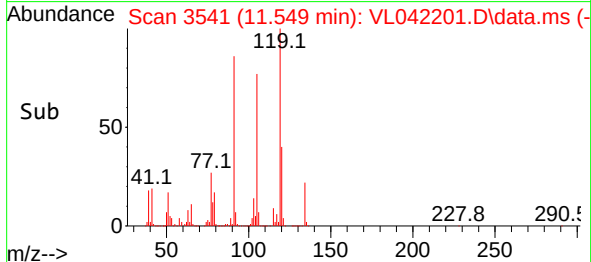
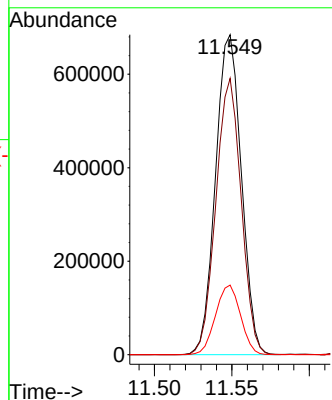
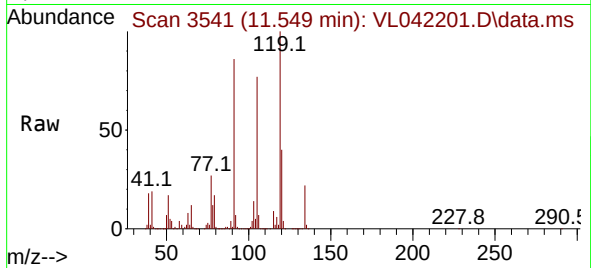




#65  
tert-Butylbenzene  
Concen: 9.526 ppbv  
RT: 11.549 min Scan# 3541  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

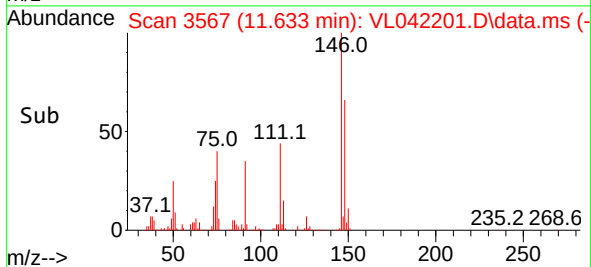
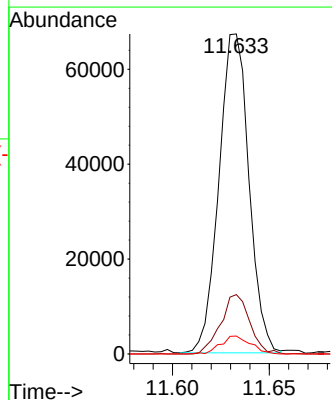
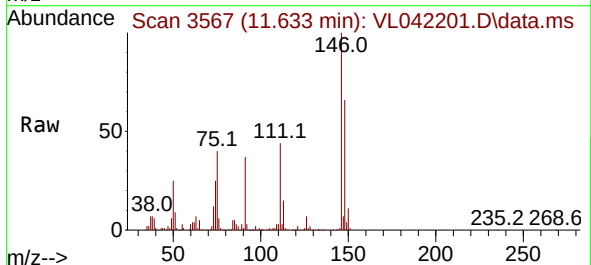
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

Tgt Ion:119 Resp: 795482  
Ion Ratio Lower Upper  
119 100  
91 84.5 66.0 99.0  
134 21.1 16.7 25.1

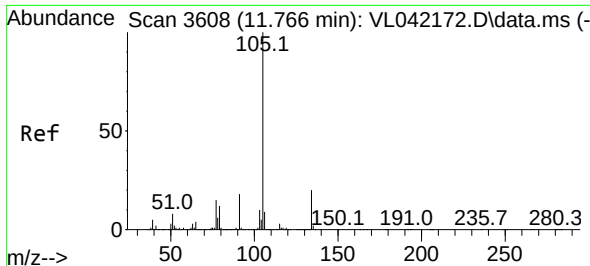


#66  
Benzyl Chloride  
Concen: 8.185 ppbv  
RT: 11.633 min Scan# 3567  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 91 Resp: 72526  
Ion Ratio Lower Upper  
91 100  
126 18.0 13.8 20.6  
128 5.6 4.5 6.7



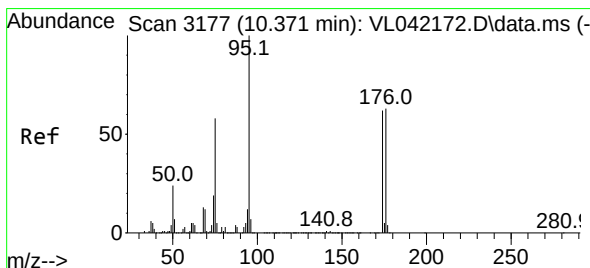
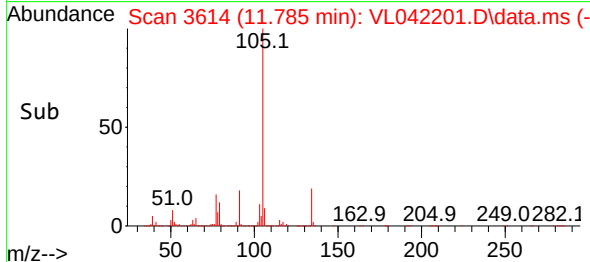
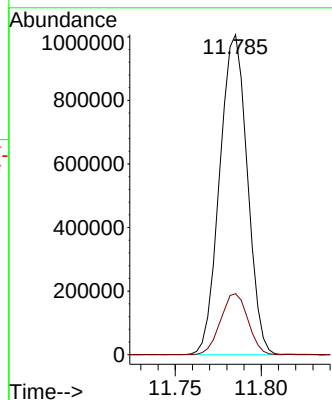
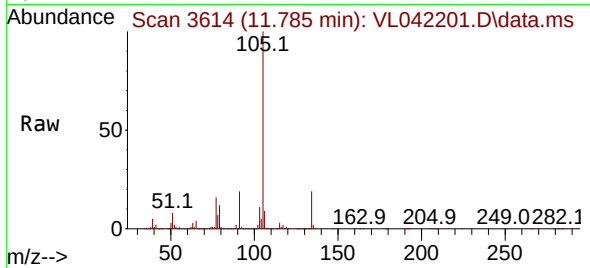




#67  
 sec-Butylbenzene  
 Concen: 9.677 ppbv  
 RT: 11.785 min Scan# 3184  
 Delta R.T. 0.019 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51

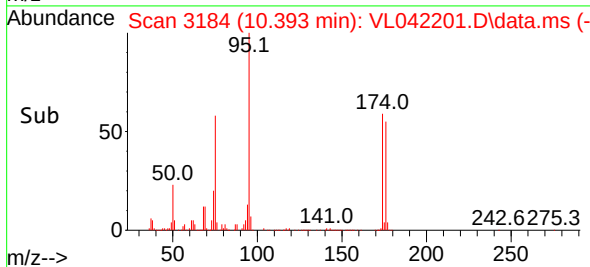
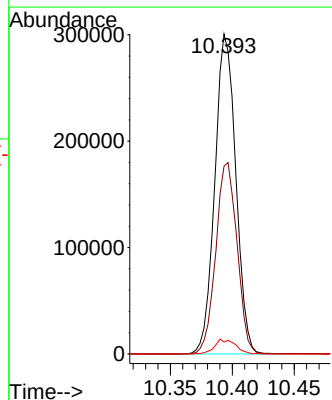
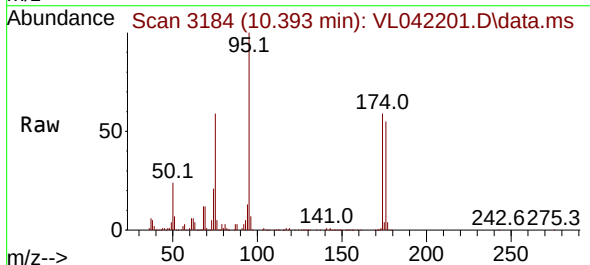
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

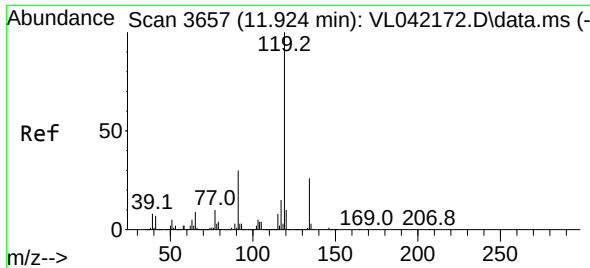
Tgt Ion:105 Resp: 1123267  
 Ion Ratio Lower Upper  
 105 100  
 134 19.0 15.5 23.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.190 ppbv  
 RT: 10.393 min Scan# 3184  
 Delta R.T. 0.023 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51

Tgt Ion: 95 Resp: 355372  
 Ion Ratio Lower Upper  
 95 100  
 174 60.6 50.6 76.0  
 175 4.6 3.8 5.6

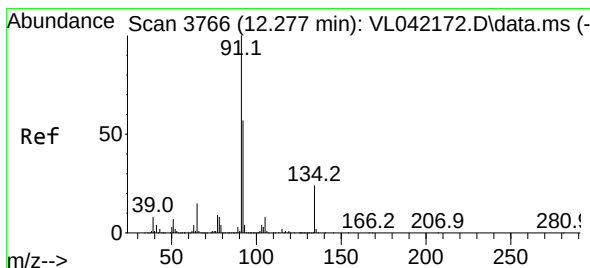
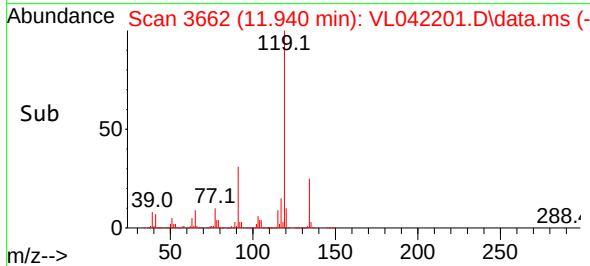
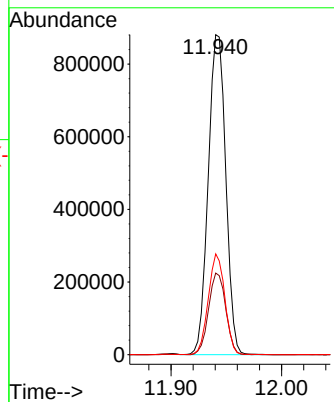
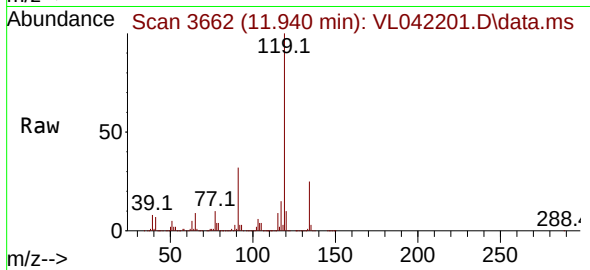




#69  
p-Isopropyltoluene  
Concen: 9.684 ppbv  
RT: 11.940 min Scan# 3662  
Delta R.T. 0.016 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

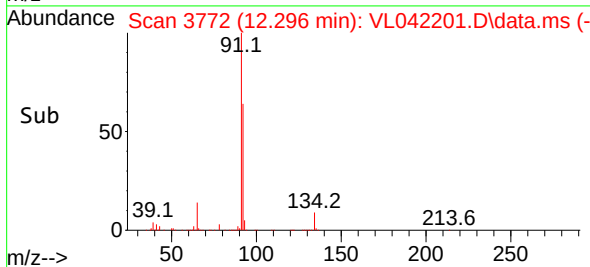
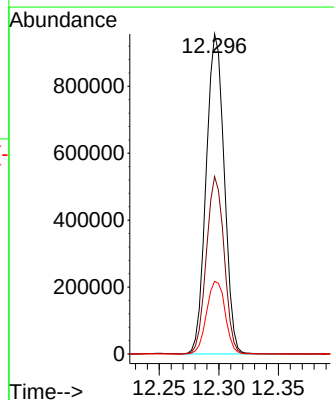
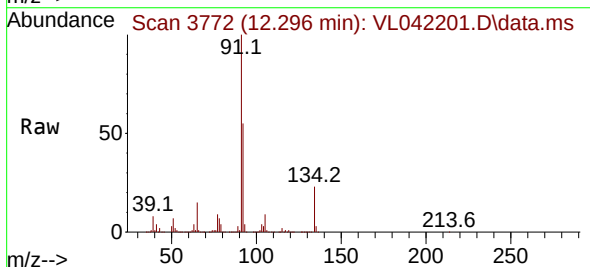
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

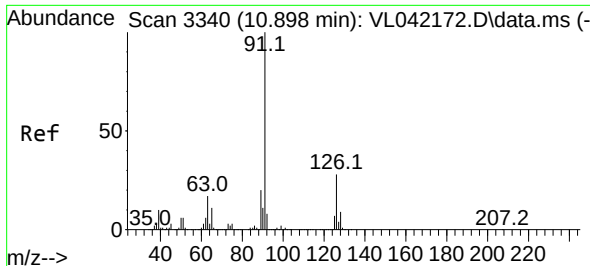
Tgt Ion:119 Resp: 967912  
Ion Ratio Lower Upper  
119 100  
134 25.1 20.4 30.6  
91 30.0 23.7 35.5



#70  
n-Butylbenzene  
Concen: 9.850 ppbv  
RT: 12.296 min Scan# 3772  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 91 Resp: 1006907  
Ion Ratio Lower Upper  
91 100  
92 54.8 44.9 67.3  
134 23.4 19.2 28.8

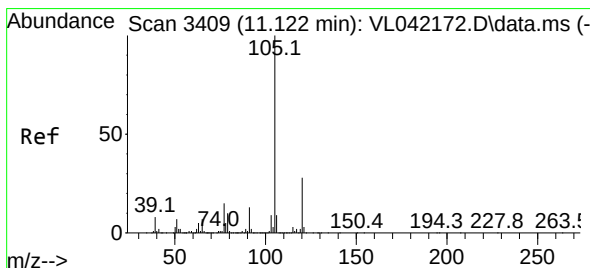
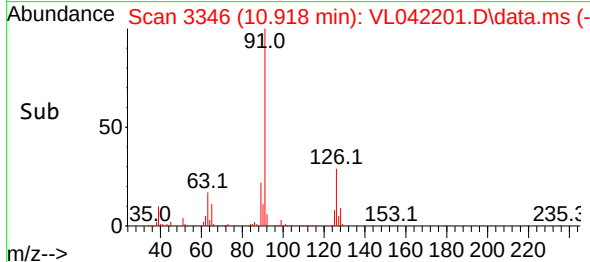
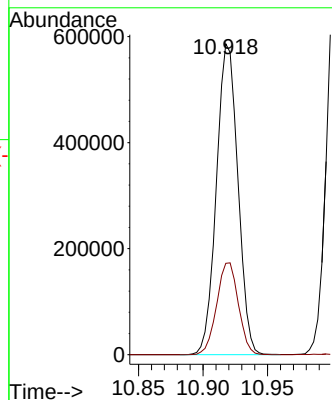
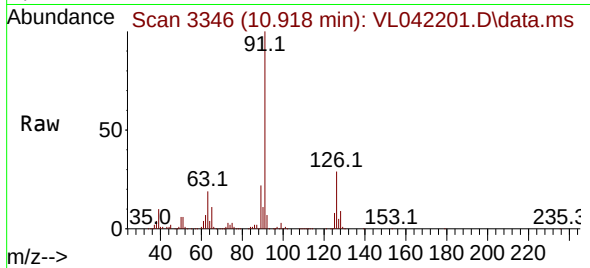




#71  
2-Chlorotoluene  
Concen: 9.652 ppbv  
RT: 10.918 min Scan# 31  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

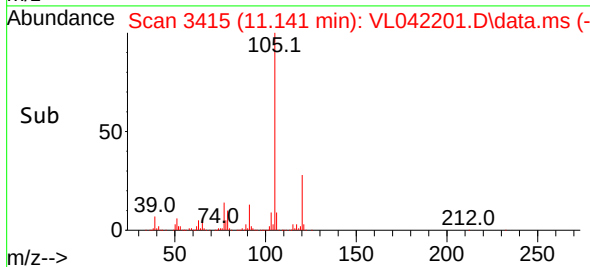
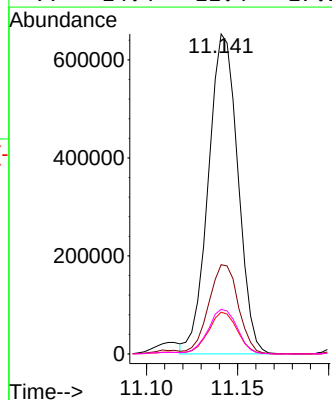
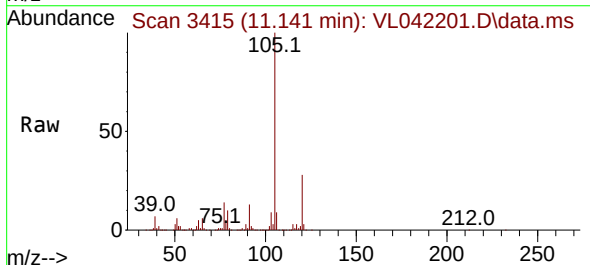
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

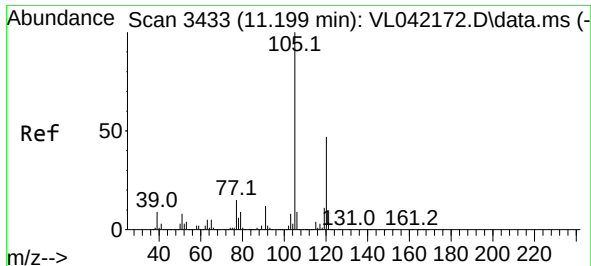
Tgt Ion: 91 Resp: 676396  
Ion Ratio Lower Upper  
91 100  
126 29.8 11.6 46.4



#72  
4-Ethyltoluene  
Concen: 9.775 ppbv  
RT: 11.141 min Scan# 3415  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion: 105 Resp: 734909  
Ion Ratio Lower Upper  
105 100  
120 29.2 23.4 35.0  
91 13.3 10.3 15.5  
77 14.4 11.4 17.2

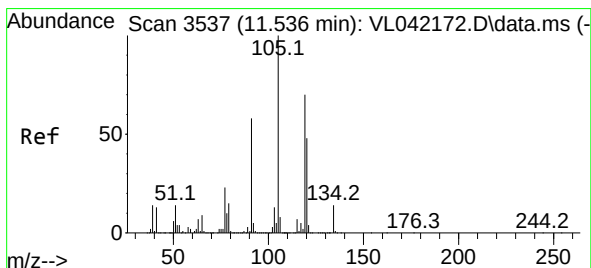
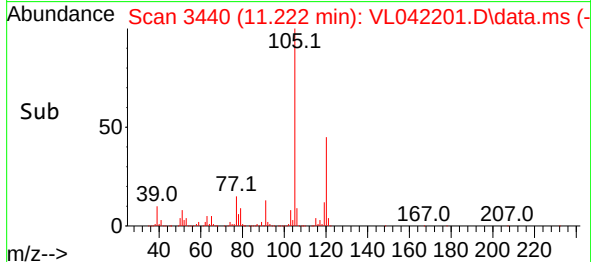
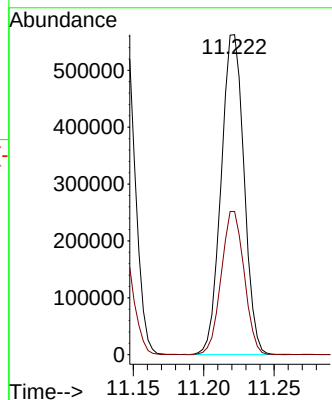
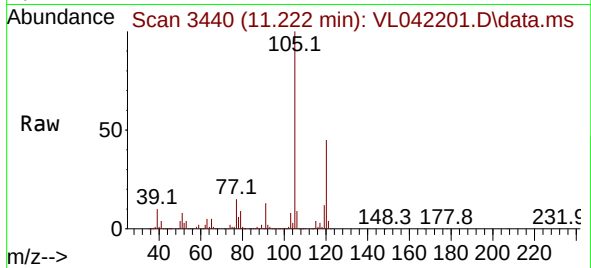




#73  
1,3,5-Trimethylbenzene  
Concen: 9.709 ppbv  
RT: 11.222 min Scan# 3433  
Delta R.T. 0.023 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

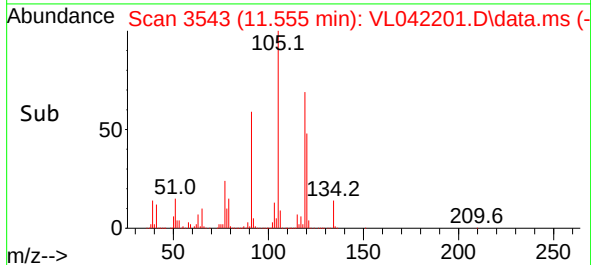
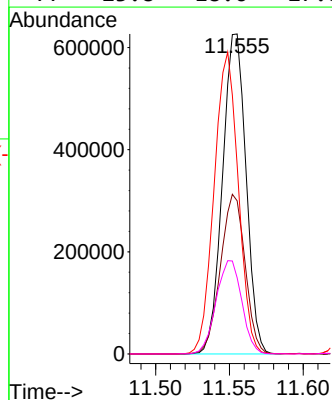
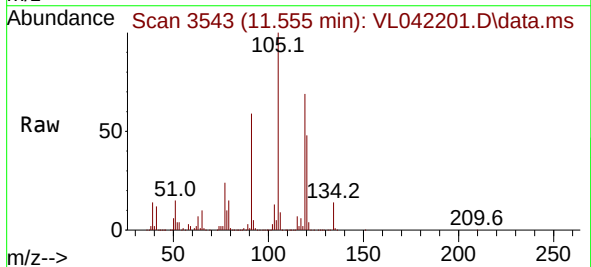
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

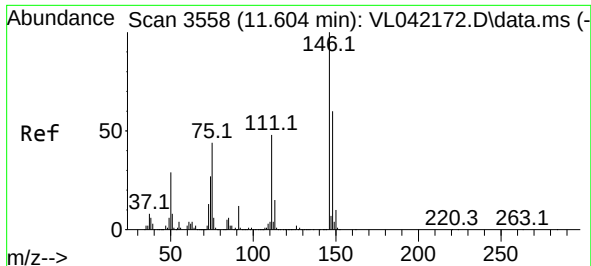
Tgt Ion:105 Resp: 637499  
Ion Ratio Lower Upper  
105 100  
120 44.7 37.4 56.0



#74  
1,2,4-Trimethylbenzene  
Concen: 9.202 ppbv  
RT: 11.555 min Scan# 3543  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion:105 Resp: 696079  
Ion Ratio Lower Upper  
105 100  
120 47.8 38.6 58.0  
91 59.0 46.2 69.2  
77 23.8 18.6 27.8

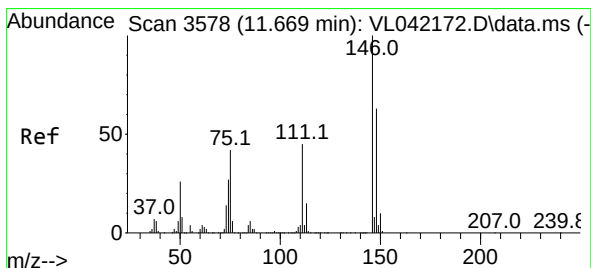
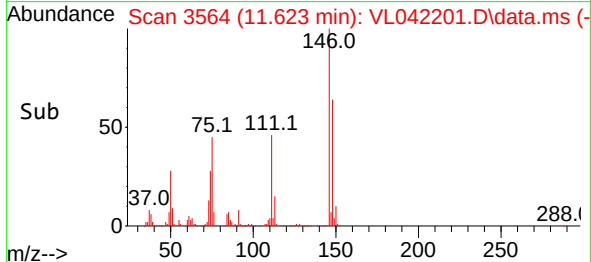
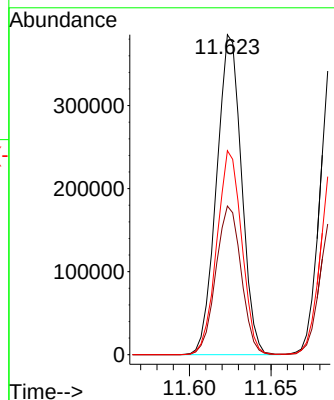
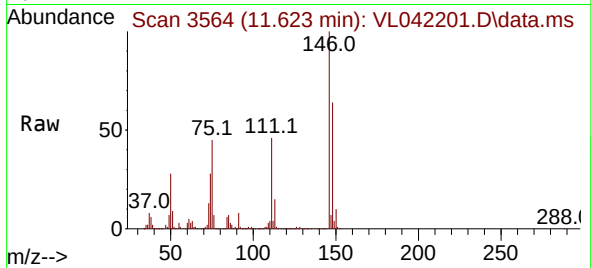




#75  
1,3-Dichlorobenzene  
Concen: 9.895 ppbv  
RT: 11.623 min Scan# 3564  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

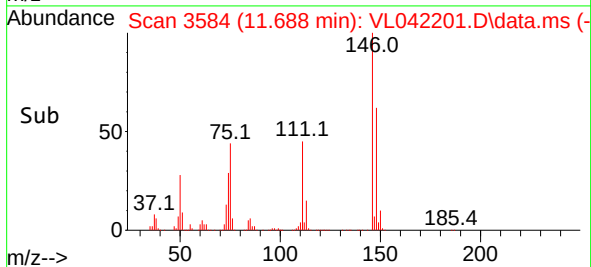
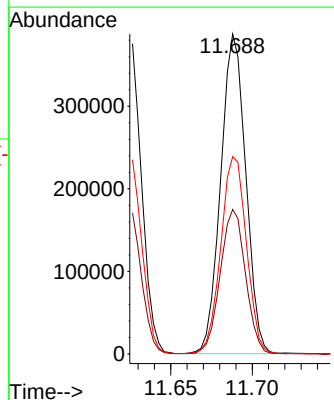
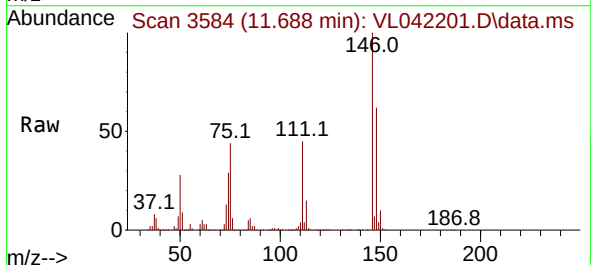
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MSVOA\_L  
ClientSampleId :  
VSTDCCC010

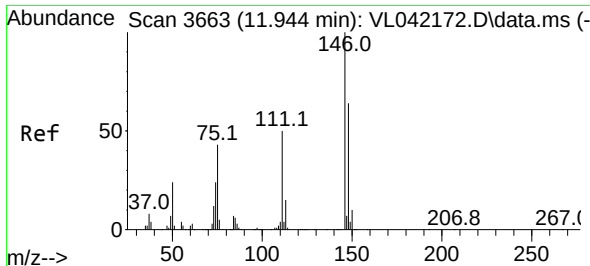
Tgt Ion:146 Resp: 410546  
Ion Ratio Lower Upper  
146 100  
111 47.1 23.8 71.2  
148 63.5 31.9 95.9



#76  
1,4-Dichlorobenzene  
Concen: 10.014 ppbv  
RT: 11.688 min Scan# 3584  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion:146 Resp: 413478  
Ion Ratio Lower Upper  
146 100  
111 45.8 23.0 69.0  
148 63.5 31.9 95.7

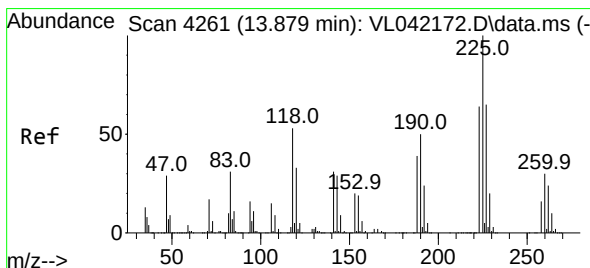
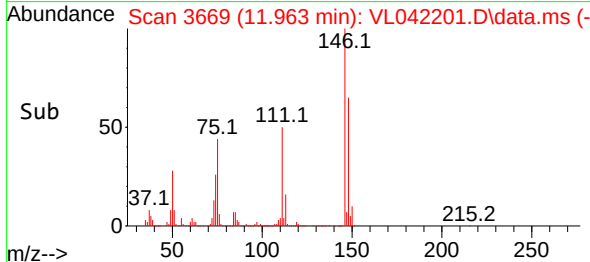
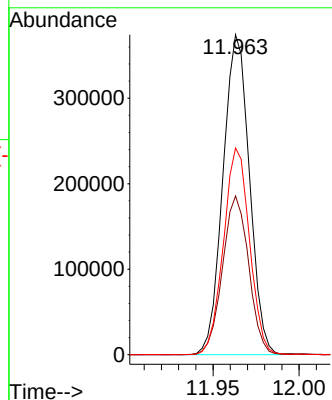
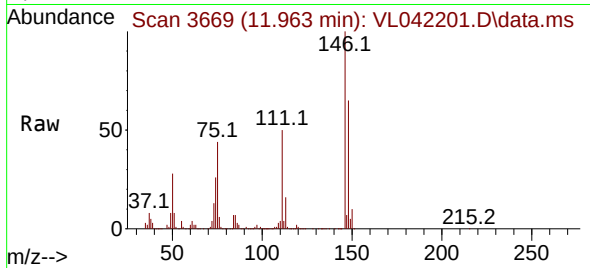




#77  
1,2-Dichlorobenzene  
Concen: 9.887 ppbv  
RT: 11.963 min Scan# 30  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

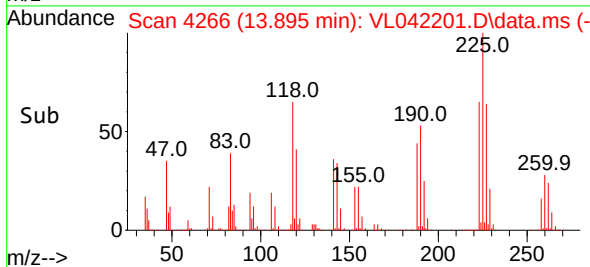
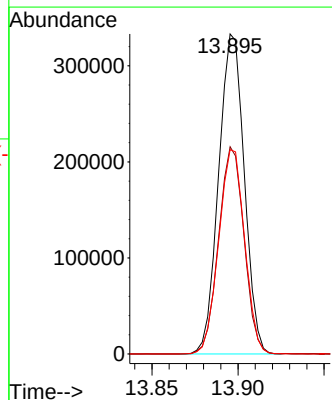
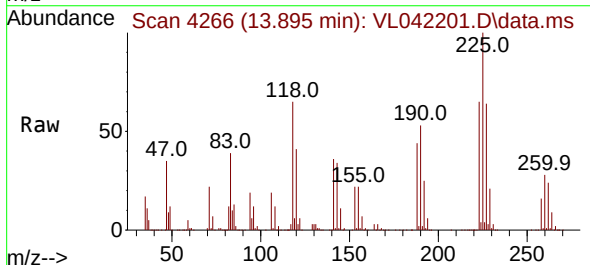
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

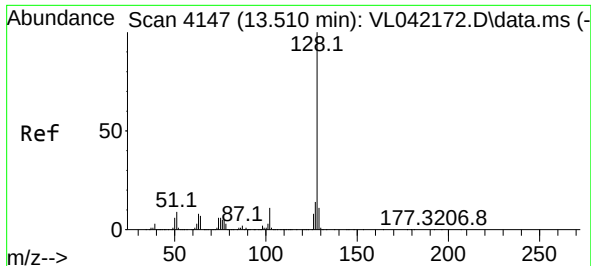
Tgt Ion:146 Resp: 399386  
Ion Ratio Lower Upper  
146 100  
111 49.4 24.8 74.3  
148 64.0 31.6 94.8



#78  
Hexachloro-1,3-Butadiene  
Concen: 8.395 ppbv  
RT: 13.895 min Scan# 4266  
Delta R.T. 0.016 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

Tgt Ion:225 Resp: 345217  
Ion Ratio Lower Upper  
225 100  
223 64.1 50.6 76.0  
227 64.4 51.2 76.8

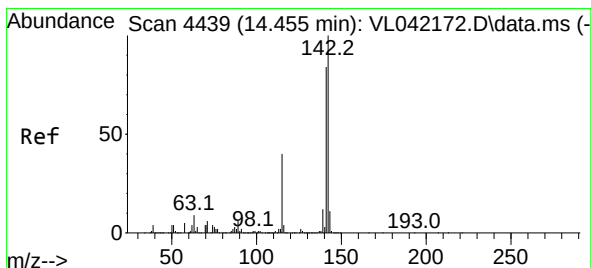
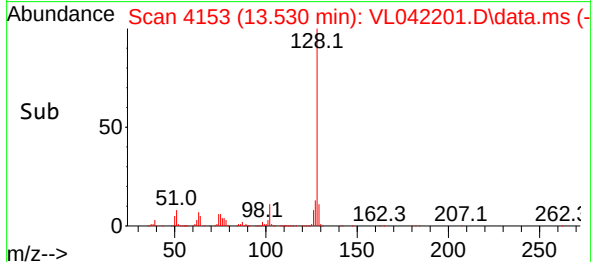
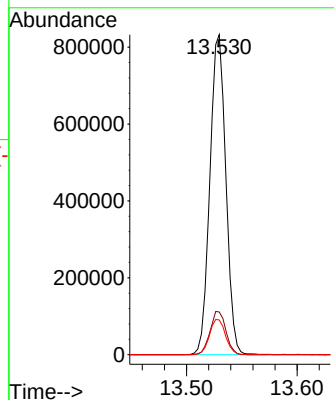
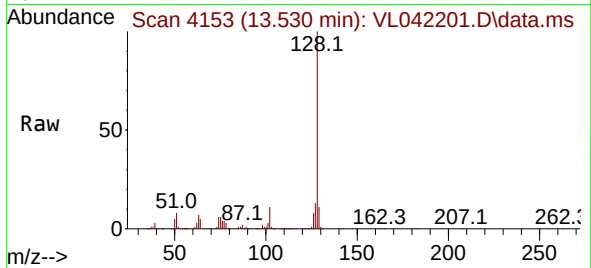




#79  
Naphthalene  
Concen: 10.072 ppbv  
RT: 13.530 min Scan# 4147  
Delta R.T. 0.019 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

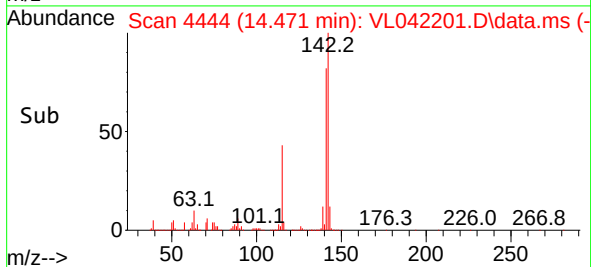
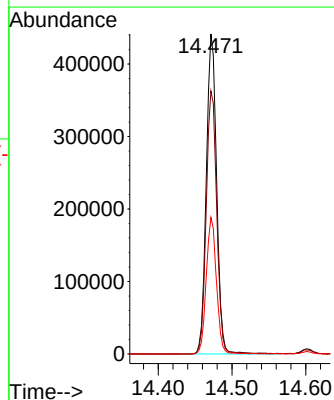
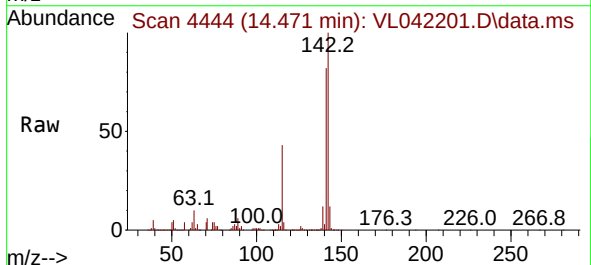
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

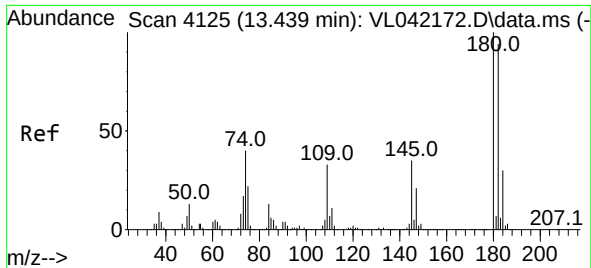
Tgt Ion:128 Resp: 833346  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.8 16.2  
129 10.9 9.0 13.4



#80  
Naphthalene,2-methyl-  
Concen: 10.537 ppbv  
RT: 14.471 min Scan# 4444  
Delta R.T. 0.016 min  
Lab File: VL042201.D  
Acq: 31 Mar 2025 08:51

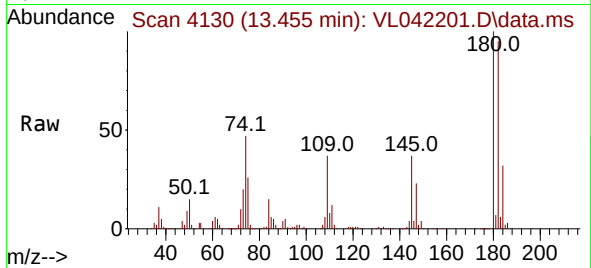
Tgt Ion:142 Resp: 427563  
Ion Ratio Lower Upper  
142 100  
141 84.2 66.3 99.5  
115 42.4 31.6 47.4



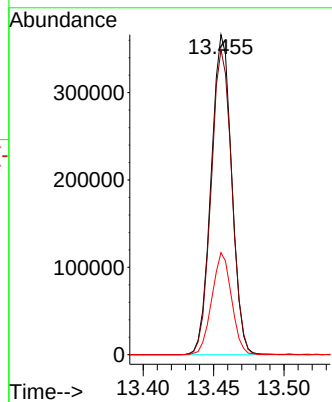
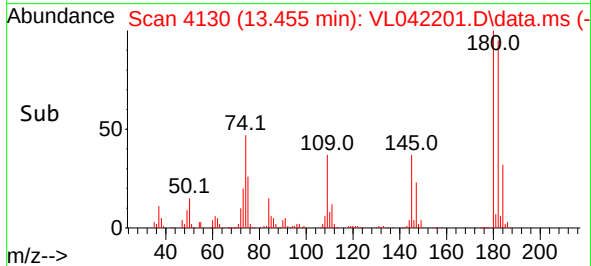


#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.779 ppbv  
 RT: 13.455 min Scan# 41  
 Delta R.T. 0.016 min  
 Lab File: VL042201.D  
 Acq: 31 Mar 2025 08:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



Tgt Ion:180 Resp: 373226  
 Ion Ratio Lower Upper  
 180 100  
 182 95.8 75.1 112.7  
 184 30.5 24.4 36.6





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
 Data File : VL042203.D  
 Acq On : 31 Mar 2025 10:17  
 Operator : SY/MD  
 Sample : VL0331ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0331ABS01

Quant Time: Apr 01 01:35:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 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   | 2.803 | 49   | 175685   | 10.000 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 3.981 | 114  | 498986   | 10.000 | ppbv  | 0.03     |
| 55) Chlorobenzene-d5    | 8.904 | 117  | 456400   | 10.000 | ppbv  | 0.03     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.396 95 385330 10.281 ppbv 0.03  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.800%

#### Target Compounds

|                               |       |     |        |        | Qvalue |     |
|-------------------------------|-------|-----|--------|--------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.505 | 85  | 270376 | 10.423 | ppbv   | 99  |
| 3) Chlorodifluoromethane      | 1.482 | 51  | 262345 | 9.900  | ppbv   | 95  |
| 4) Chloromethane              | 1.538 | 50  | 102731 | 9.691  | ppbv   | 100 |
| 5) Vinyl Chloride             | 1.586 | 62  | 97910  | 8.716  | ppbv   | 95  |
| 6) Bromomethane               | 1.673 | 94  | 43862  | 9.130  | ppbv   | 98  |
| 7) Chloroethane               | 1.712 | 64  | 39774  | 9.347  | ppbv   | 100 |
| 8) Dichlorotetrafluoroethane  | 1.560 | 85  | 228198 | 10.330 | ppbv   | 94  |
| 9) Propene                    | 1.489 | 41  | 104679 | 8.618  | ppbv   | 98  |
| 10) Heptane                   | 5.007 | 43  | 298492 | 9.239  | ppbv   | 99  |
| 11) Trichlorofluoromethane    | 1.887 | 101 | 258953 | 10.260 | ppbv   | 96  |
| 12) 1,1,2-Trichlorotrifluo... | 2.149 | 101 | 200210 | 9.650  | ppbv   | 96  |
| 13) Ethanol                   | 1.732 | 45  | 5239   | 4.563  | ppbv   | 91  |
| 14) Bromoethene               | 1.790 | 108 | 74401  | 9.361  | ppbv   | 98  |
| 15) Acetone                   | 1.845 | 43  | 218378 | 8.888  | ppbv   | 95  |
| 16) 1,3-Butadiene             | 1.615 | 39  | 104247 | 8.688  | ppbv   | 99  |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 276592 | 9.038  | ppbv   | 99  |
| 18) 1,1-Dichloroethene        | 2.042 | 96  | 89252  | 9.202  | ppbv   | 99  |
| 19) Isopropyl Alcohol         | 1.894 | 45  | 127449 | 9.193  | ppbv   | 99  |
| 20) Methylene Chloride        | 2.072 | 84  | 76788  | 8.391  | ppbv   | 97  |
| 21) Allyl Chloride            | 2.107 | 41  | 154876 | 8.938  | ppbv   | 98  |
| 22) trans-1,2-Dichloroethene  | 2.353 | 96  | 102643 | 9.157  | ppbv   | 96  |
| 23) Vinyl Acetate             | 2.476 | 43  | 89760  | 8.441  | ppbv # | 95  |
| 24) 1,1-Dichloroethane        | 2.421 | 63  | 208334 | 10.026 | ppbv   | 99  |
| 25) Ethyl Acetate             | 2.852 | 43  | 609975 | 9.565  | ppbv   | 99  |
| 26) Hexane                    | 2.842 | 57  | 234267 | 9.511  | ppbv   | 99  |
| 27) Carbon Disulfide          | 2.159 | 76  | 245905 | 9.310  | ppbv   | 99  |
| 28) Methyl tert-Butyl Ether   | 2.454 | 73  | 169404 | 11.046 | ppbv   | 94  |
| 29) Chloroform                | 2.865 | 83  | 382690 | 10.616 | ppbv   | 100 |
| 30) Cyclohexane               | 3.881 | 84  | 200894 | 9.393  | ppbv   | 97  |
| 31) cis-1,2-Dichloroethene    | 2.735 | 61  | 249599 | 9.981  | ppbv   | 97  |
| 32) 1,1,1-Trichloroethane     | 3.386 | 97  | 402506 | 9.753  | ppbv   | 99  |
| 34) 2-Butanone                | 2.570 | 43  | 343896 | 9.504  | ppbv   | 100 |
| 35) Carbon Tetrachloride      | 3.784 | 117 | 412312 | 10.578 | ppbv   | 99  |
| 36) Benzene                   | 3.677 | 78  | 482499 | 9.754  | ppbv   | 97  |
| 37) 1,2-Dichloroethane        | 3.237 | 62  | 310502 | 10.964 | ppbv   | 98  |
| 38) Trichloroethene           | 4.577 | 130 | 201215 | 9.749  | ppbv   | 95  |
| 39) 1,2-Dichloropropane       | 4.340 | 63  | 174119 | 9.665  | ppbv   | 92  |
| 40) 1,4-Dioxane               | 4.616 | 88  | 84833  | 8.872  | ppbv # | 91  |
| 41) Tetrahydrofuran           | 3.072 | 42  | 194140 | 9.318  | ppbv   | 99  |
| 42) Bromodichloromethane      | 4.515 | 83  | 422881 | 10.831 | ppbv   | 97  |
| 43) Methyl Methacrylate       | 4.913 | 69  | 191894 | 9.163  | ppbv   | 100 |
| 44) 2,2,4-Trimethylpentane    | 4.667 | 57  | 792762 | 9.483  | ppbv   | 98  |
| 45) t-1,3-Dichloropropene     | 6.447 | 75  | 203792 | 9.071  | ppbv   | 94  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
 Data File : VL042203.D  
 Acq On : 31 Mar 2025 10:17  
 Operator : SY/MD  
 Sample : VL0331ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0331ABS01

Quant Time: Apr 01 01:35:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 2025  
 Response via : Initial Calibration

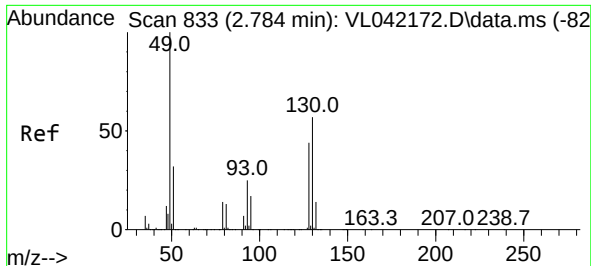
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.632  | 75   | 258084   | 9.371  | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.616  | 97   | 194204   | 10.197 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.415  | 129  | 342254   | 10.604 | ppbv   | 99       |
| 49) Bromoform                 | 9.506  | 173  | 298349   | 10.296 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.787  | 43   | 493320   | 8.603  | ppbv   | 98       |
| 51) 2-Hexanone                | 7.464  | 43   | 405558   | 8.613  | ppbv   | 97       |
| 52) Tetrachloroethene         | 8.250  | 164  | 176804   | 9.012  | ppbv   | 95       |
| 53) Toluene                   | 6.965  | 91   | 560307   | 9.555  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.681  | 107  | 273381   | 10.298 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.946  | 131  | 266468   | 10.607 | ppbv   | 98       |
| 57) Chlorobenzene             | 8.946  | 112  | 448854   | 10.368 | ppbv # | 95       |
| 58) Ethyl Benzene             | 9.377  | 91   | 815513   | 10.059 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.574  | 91   | 672913   | 10.395 | ppbv # | 32       |
| 60) o-Xylene                  | 9.985  | 91   | 673552   | 10.379 | ppbv   | 99       |
| 61) Styrene                   | 9.891  | 104  | 322981   | 10.060 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.558 | 105  | 1021273  | 10.524 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.985  | 83   | 411620   | 10.440 | ppbv   | 100      |
| 64) n-propylbenzene           | 11.008 | 120  | 264706   | 10.596 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.548 | 119  | 913025   | 10.173 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.633 | 91   | 78394    | 8.232  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.785 | 105  | 1292454  | 10.360 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.943 | 119  | 1113087  | 10.362 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.296 | 91   | 1144962  | 10.422 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.921 | 91   | 775424   | 10.295 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.144 | 105  | 848380   | 10.500 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.222 | 105  | 736772   | 10.441 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.555 | 105  | 800063   | 9.841  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.626 | 146  | 470306   | 10.548 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.688 | 146  | 467631   | 10.538 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.963 | 146  | 460911   | 10.617 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.898 | 225  | 371995   | 8.418  | ppbv   | 100      |
| 79) Naphthalene               | 13.529 | 128  | 840768   | 9.455  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 328839   | 7.541  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 381981   | 9.313  | ppbv   | 99       |

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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VL0331ABS01

- 1
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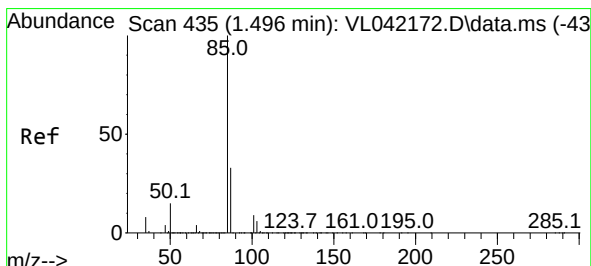
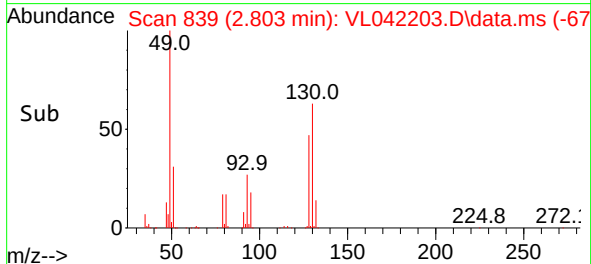
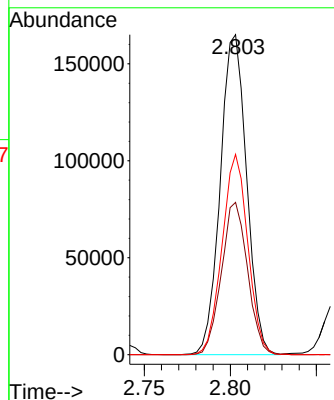
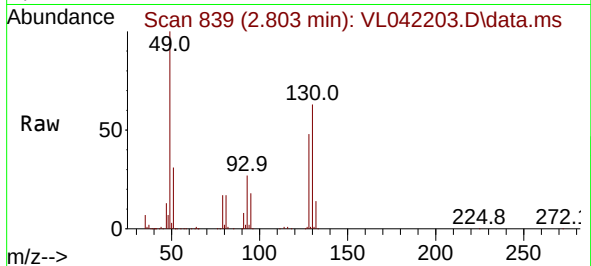




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.803 min Scan# 81  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

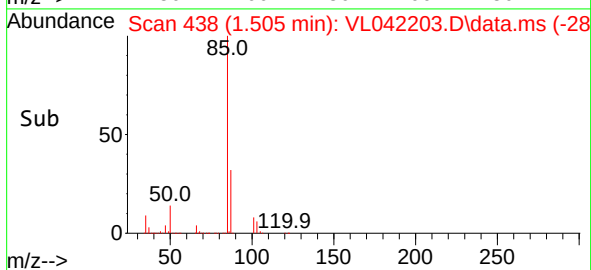
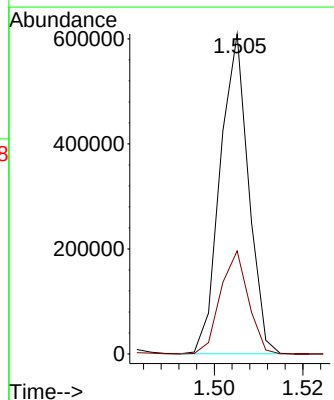
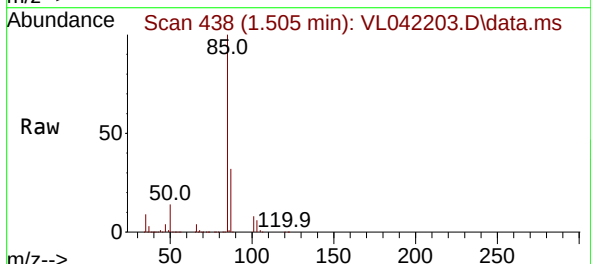
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

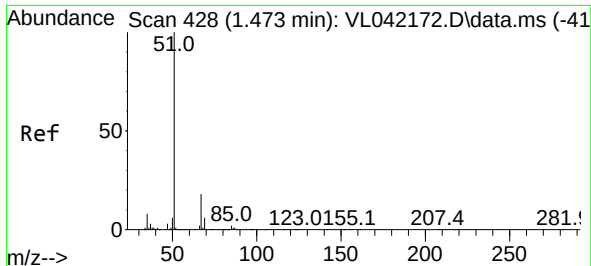
Tgt Ion: 49 Resp: 175685  
Ion Ratio Lower Upper  
49 100  
128 47.2 22.9 68.5  
130 61.2 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 10.423 ppbv  
RT: 1.505 min Scan# 438  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 85 Resp: 270376  
Ion Ratio Lower Upper  
85 100  
87 32.2 26.1 39.1

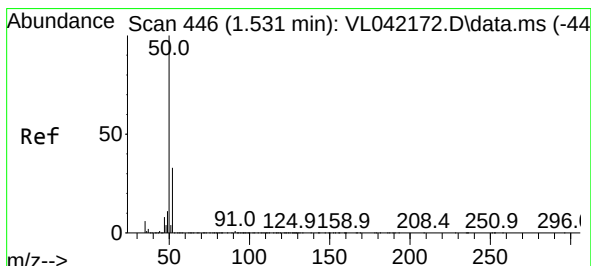
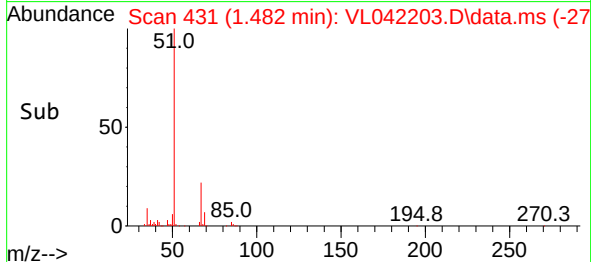
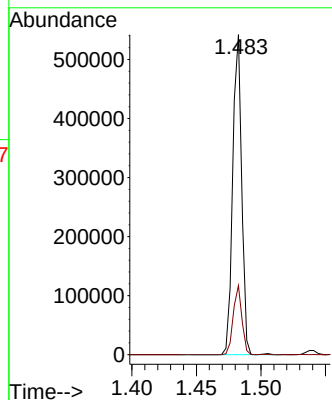
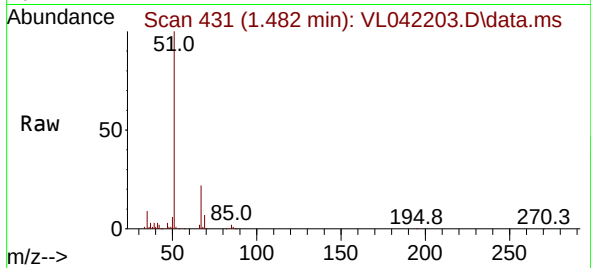




#3  
Chlorodifluoromethane  
Concen: 9.900 ppbv  
RT: 1.482 min Scan# 41  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

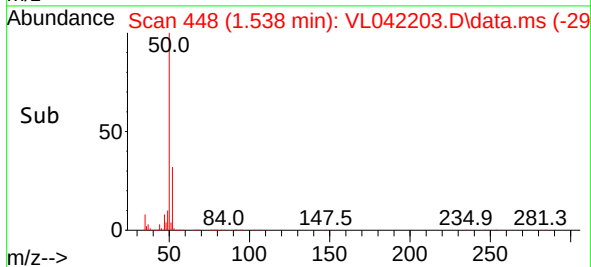
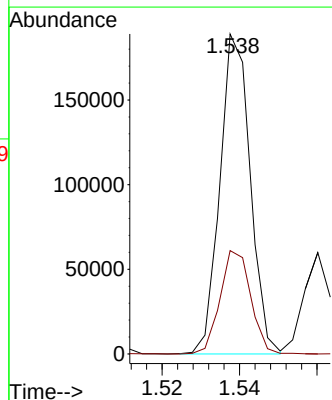
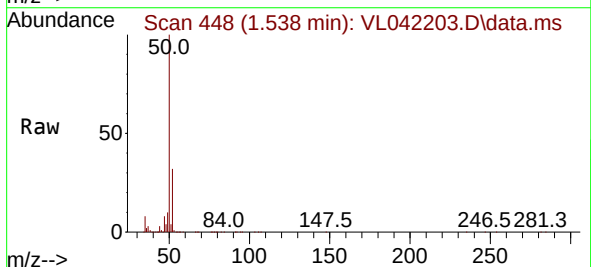
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

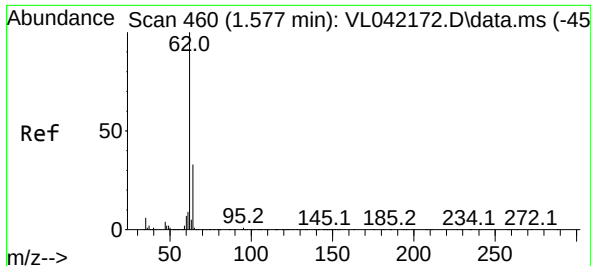
Tgt Ion: 51 Resp: 262345  
Ion Ratio Lower Upper  
51 100  
67 21.0 15.0 22.6



#4  
Chloromethane  
Concen: 9.691 ppbv  
RT: 1.538 min Scan# 448  
Delta R.T. 0.006 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 50 Resp: 102731  
Ion Ratio Lower Upper  
50 100  
52 32.3 26.1 39.1

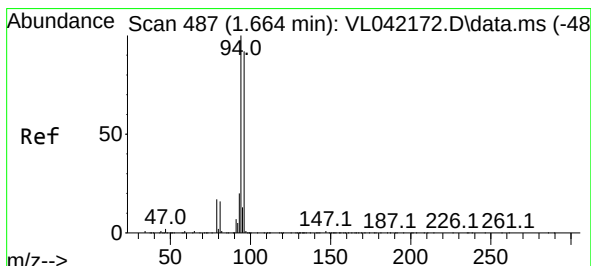
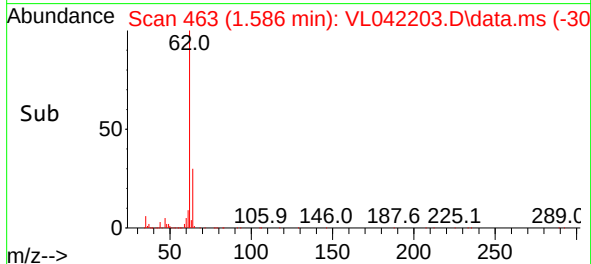
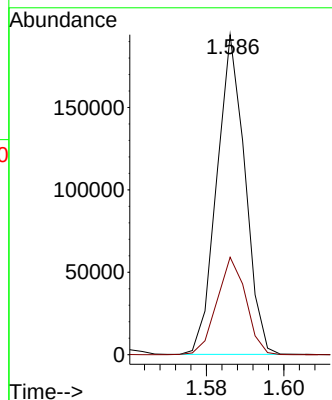
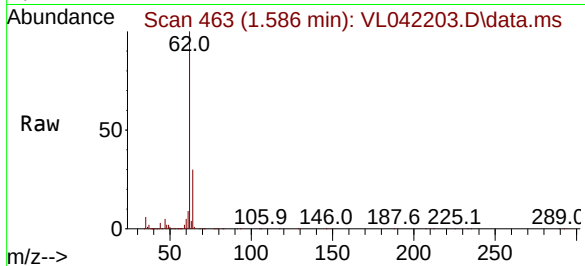




#5  
Vinyl Chloride  
Concen: 8.716 ppbv  
RT: 1.586 min Scan# 41  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

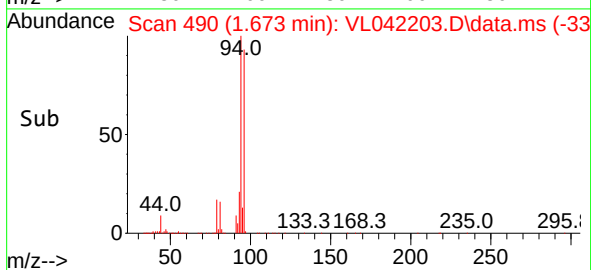
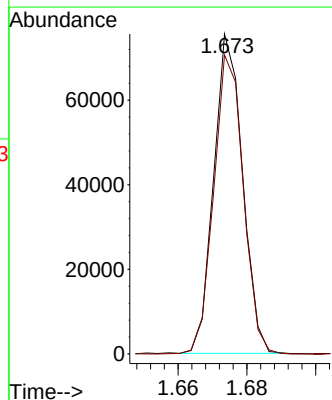
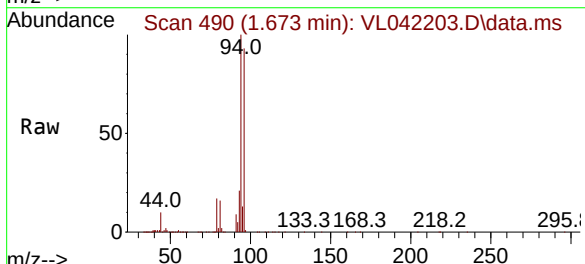
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

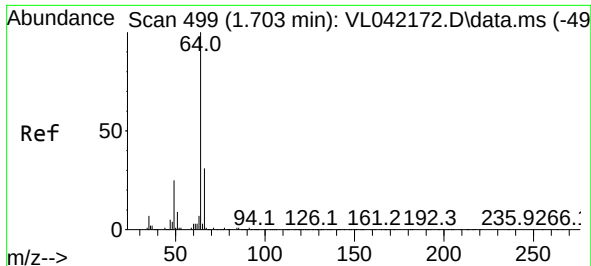
Tgt Ion: 62 Resp: 97910  
Ion Ratio Lower Upper  
62 100  
64 30.5 26.6 40.0



#6  
Bromomethane  
Concen: 9.130 ppbv  
RT: 1.673 min Scan# 490  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 94 Resp: 43862  
Ion Ratio Lower Upper  
94 100  
96 93.5 73.1 109.7

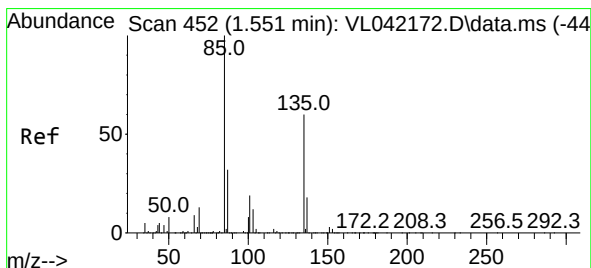
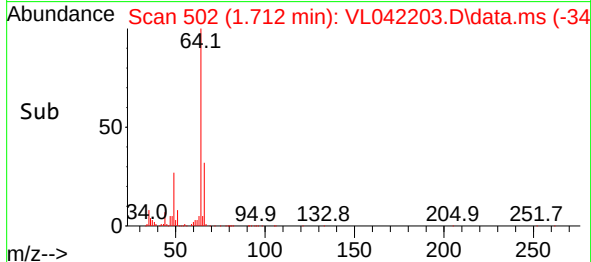
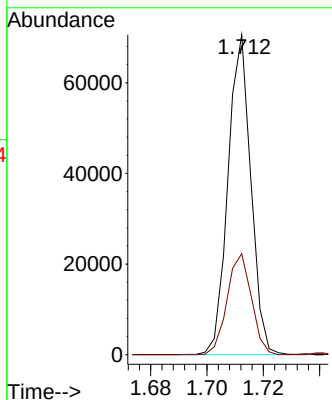
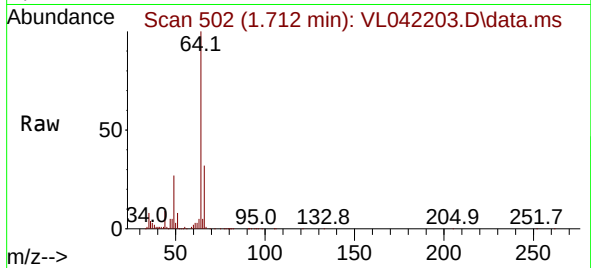




#7  
Chloroethane  
Concen: 9.347 ppbv  
RT: 1.712 min Scan# 502  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

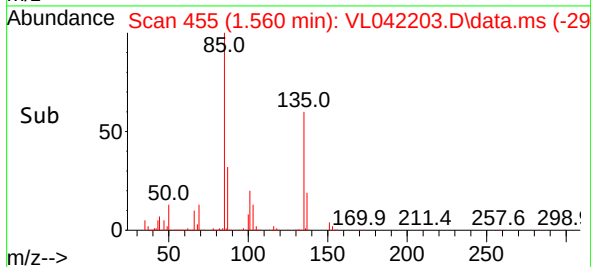
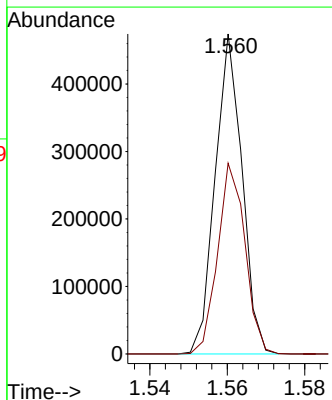
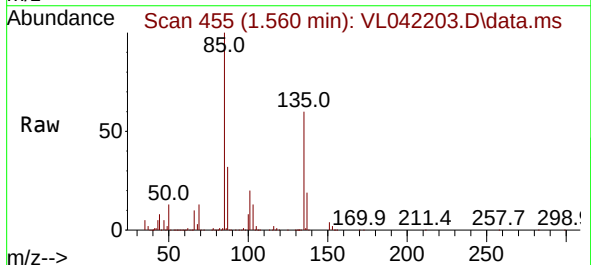
Instrument :  
MSVOA\_L  
ClientSampleId :  
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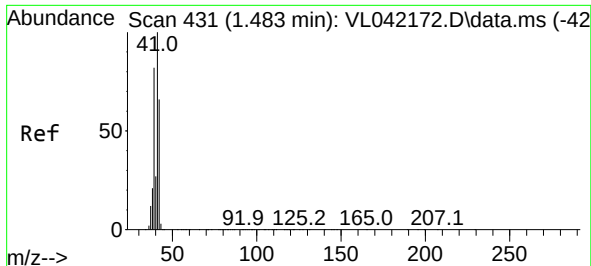
Tgt Ion: 64 Resp: 39774  
Ion Ratio Lower Upper  
64 100  
66 31.6 25.2 37.8



#8  
Dichlorotetrafluoroethane  
Concen: 10.330 ppbv  
RT: 1.560 min Scan# 455  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 85 Resp: 228198  
Ion Ratio Lower Upper  
85 100  
135 60.9 52.4 78.6

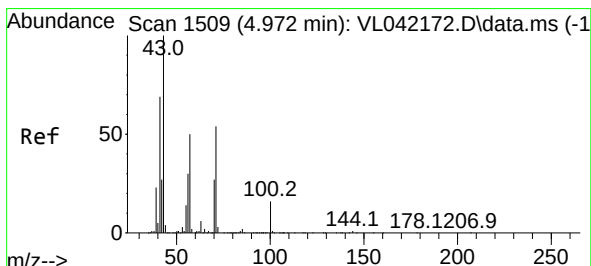
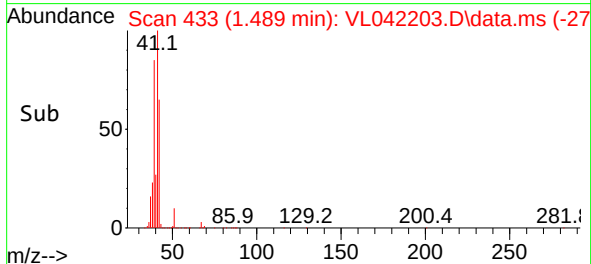
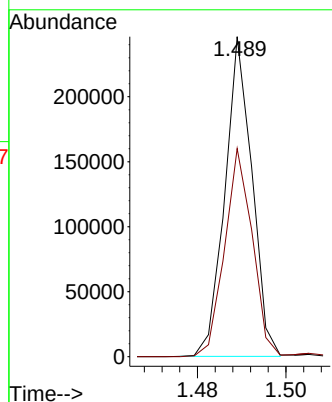
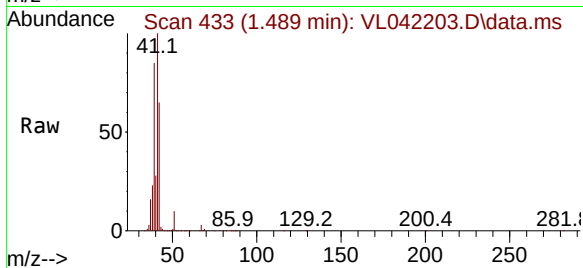




#9  
Propene  
Concen: 8.618 ppbv  
RT: 1.489 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

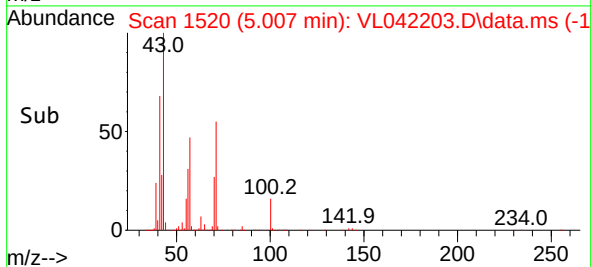
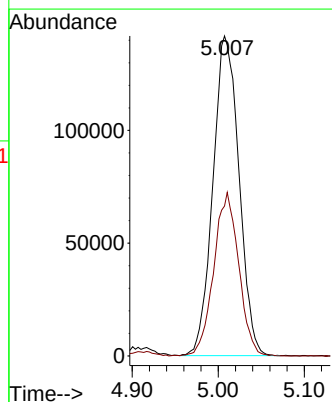
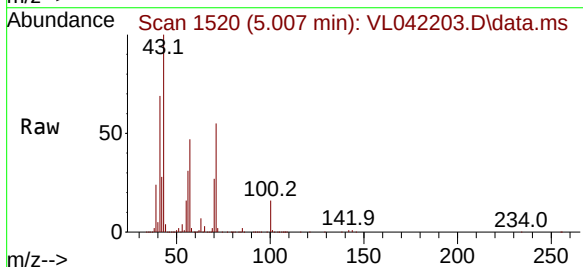
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

Tgt Ion: 41 Resp: 104679  
Ion Ratio Lower Upper  
41 100  
42 67.9 55.4 83.2

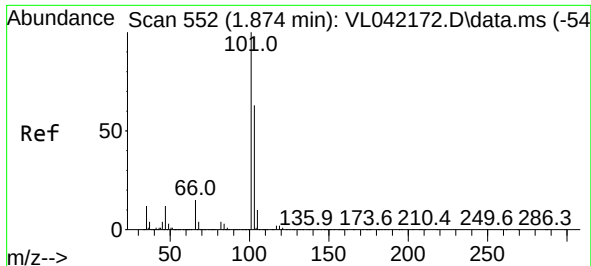


#10  
Heptane  
Concen: 9.239 ppbv  
RT: 5.007 min Scan# 1520  
Delta R.T. 0.035 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 43 Resp: 298492  
Ion Ratio Lower Upper  
43 100  
57 48.9 39.4 59.2



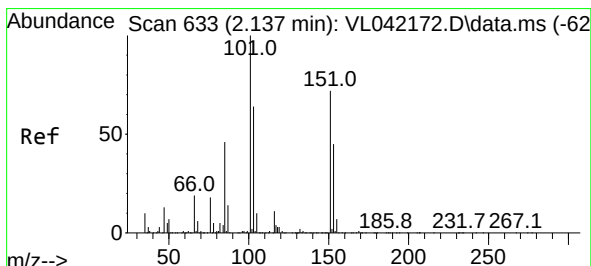
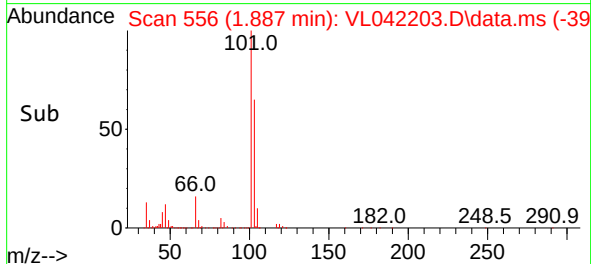
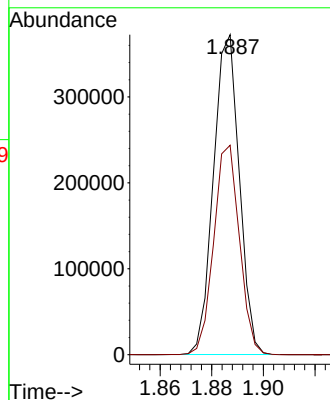
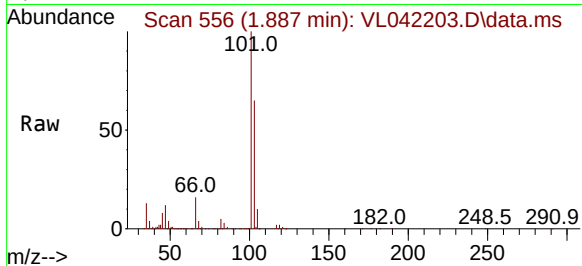




#11  
Trichlorofluoromethane  
Concen: 10.260 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

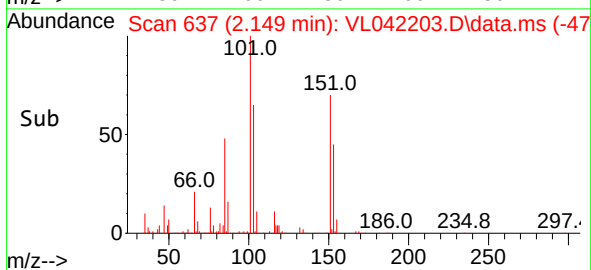
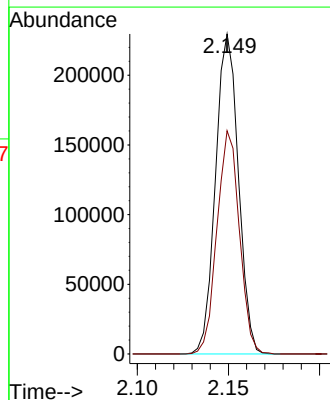
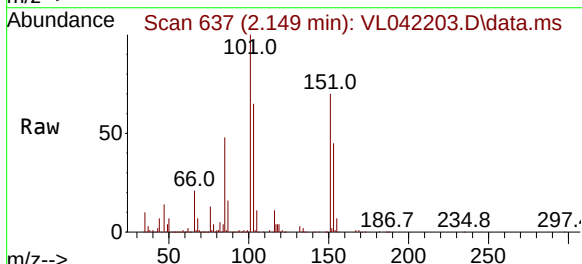
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VL0331ABS01

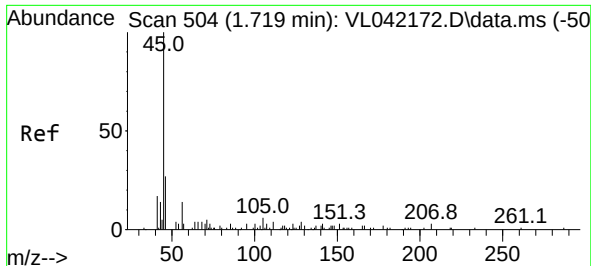
Tgt Ion:101 Resp: 258953  
Ion Ratio Lower Upper  
101 100  
103 65.5 50.2 75.2



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.650 ppbv  
RT: 2.149 min Scan# 637  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion:101 Resp: 200210  
Ion Ratio Lower Upper  
101 100  
151 68.5 57.1 85.7





#13

Ethanol

Concen: 4.563 ppbv

RT: 1.732 min Scan# 504

Delta R.T. 0.013 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

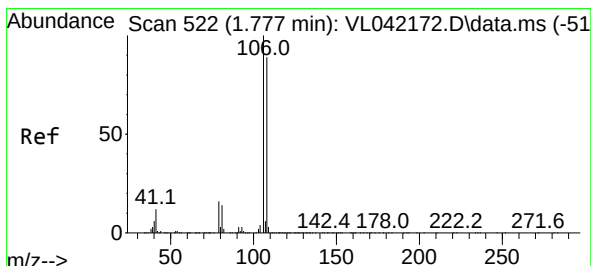
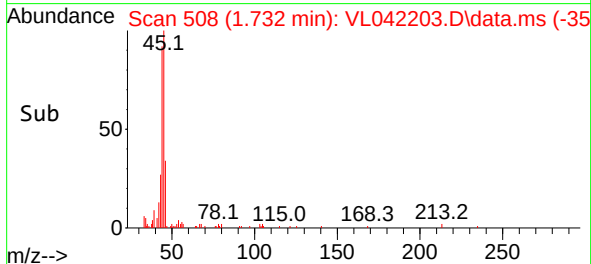
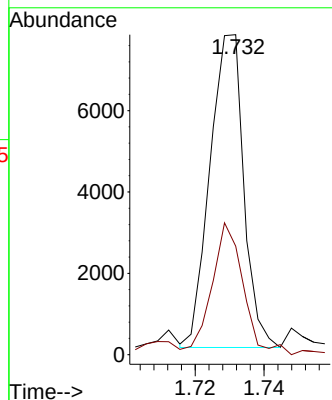
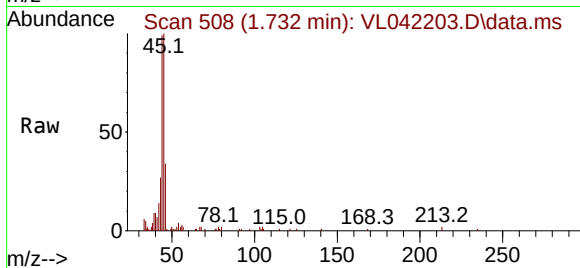
VL0331ABS01

Tgt Ion: 45 Resp: 5239

Ion Ratio Lower Upper

45 100

46 44.4 20.2 80.8



#14

Bromoethene

Concen: 9.361 ppbv

RT: 1.790 min Scan# 526

Delta R.T. 0.013 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

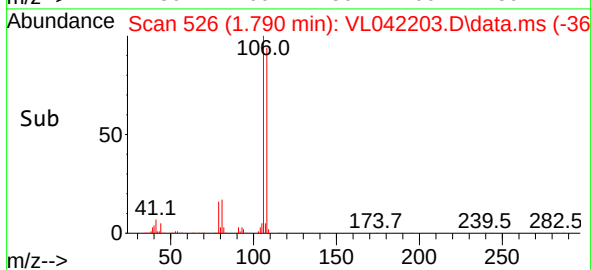
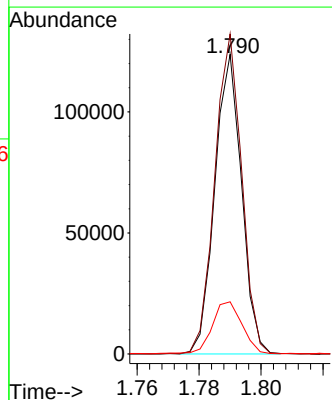
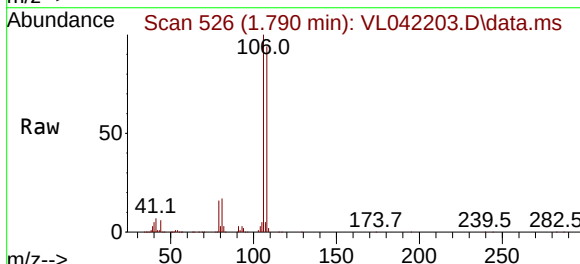
Tgt Ion: 108 Resp: 74401

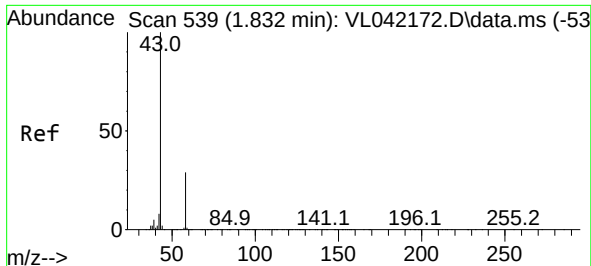
Ion Ratio Lower Upper

108 100

106 107.1 86.8 130.2

79 20.2 15.0 22.6

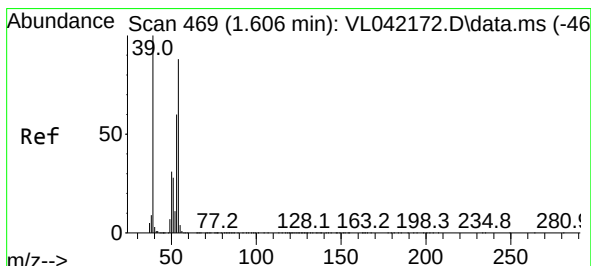
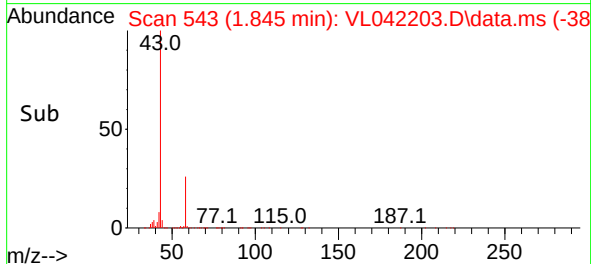
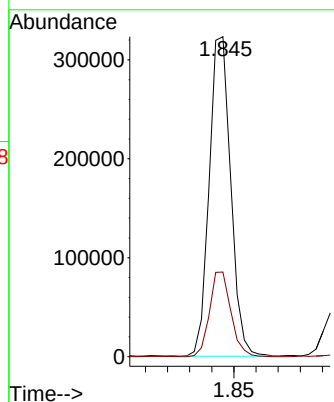
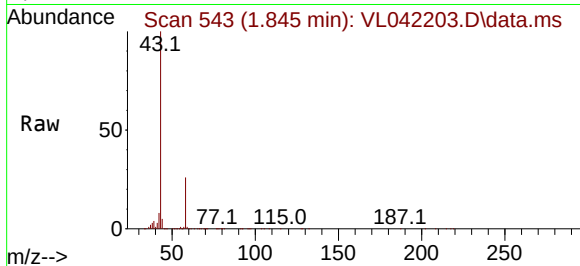




#15  
Acetone  
Concen: 8.888 ppbv  
RT: 1.845 min Scan# 54  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

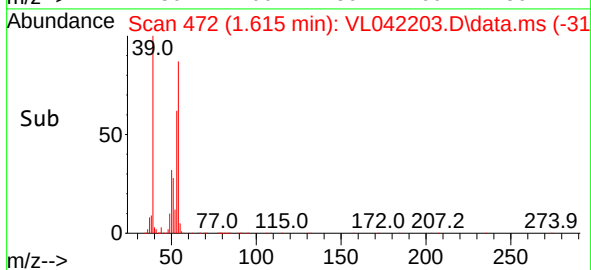
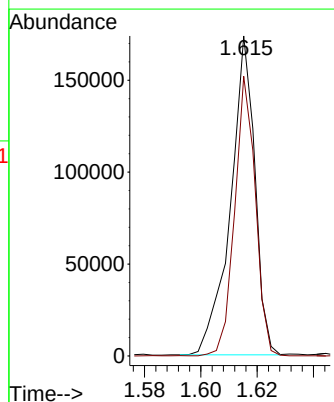
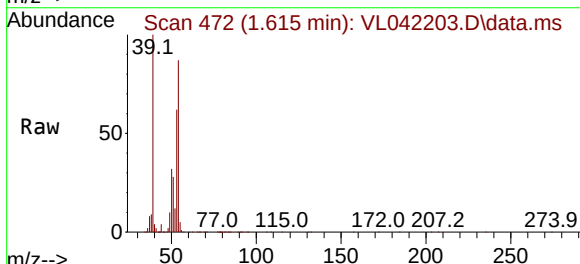
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

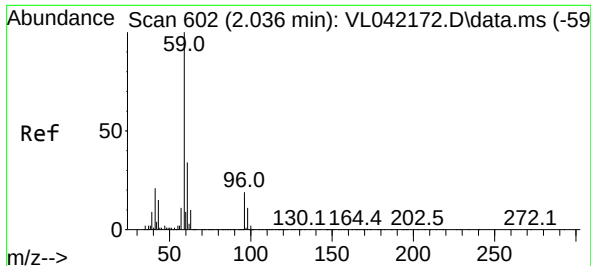
Tgt Ion: 43 Resp: 218378  
Ion Ratio Lower Upper  
43 100  
58 26.4 23.2 34.8



#16  
1,3-Butadiene  
Concen: 8.688 ppbv  
RT: 1.615 min Scan# 472  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 39 Resp: 104247  
Ion Ratio Lower Upper  
39 100  
54 74.6 60.7 91.1





#17

tert-Butyl alcohol

Concen: 9.038 ppbv

RT: 2.049 min Scan# 60

Delta R.T. 0.013 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

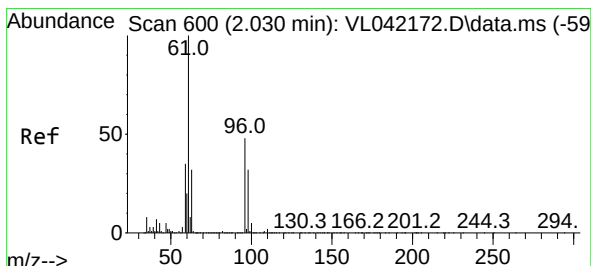
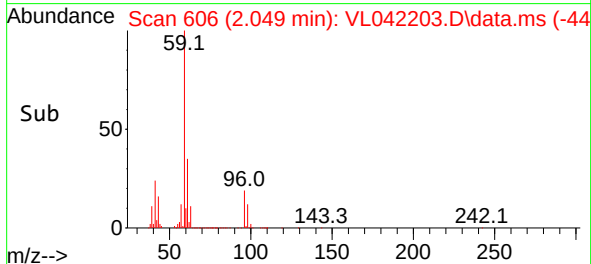
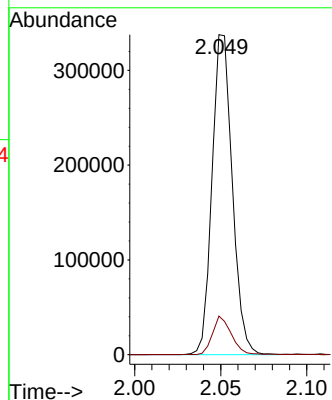
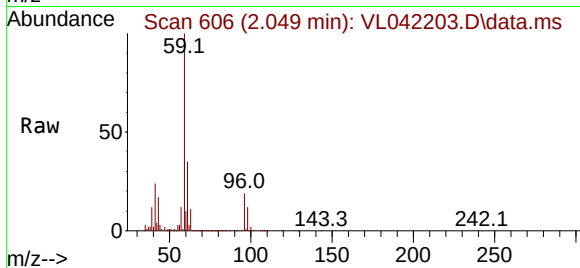
VL0331ABS01

Tgt Ion: 59 Resp: 276592

Ion Ratio Lower Upper

59 100

57 11.4 8.9 13.3



#18

1,1-Dichloroethene

Concen: 9.202 ppbv

RT: 2.042 min Scan# 604

Delta R.T. 0.013 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

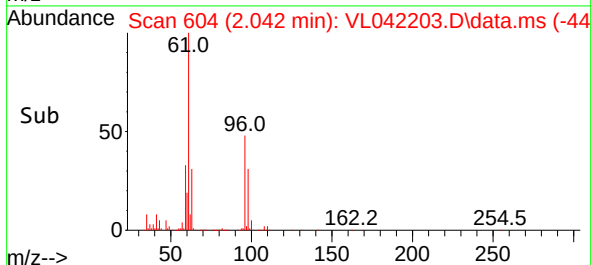
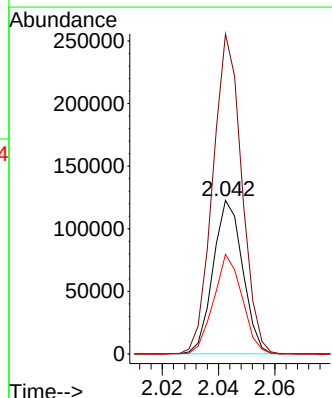
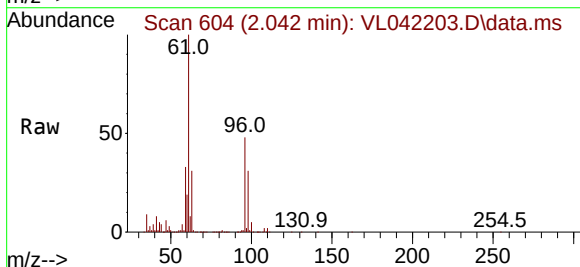
Tgt Ion: 96 Resp: 89252

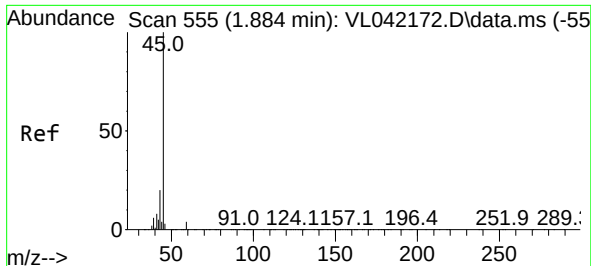
Ion Ratio Lower Upper

96 100

61 208.4 167.6 251.4

98 65.0 53.5 80.3

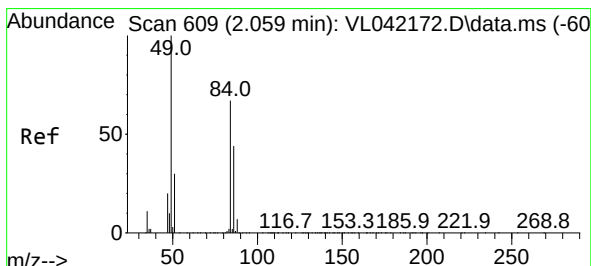
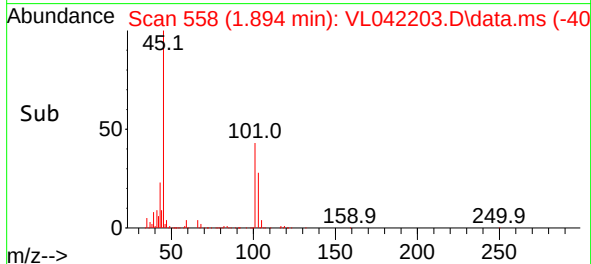
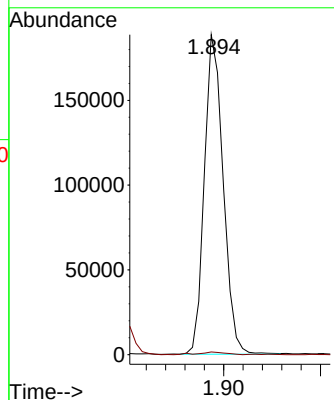
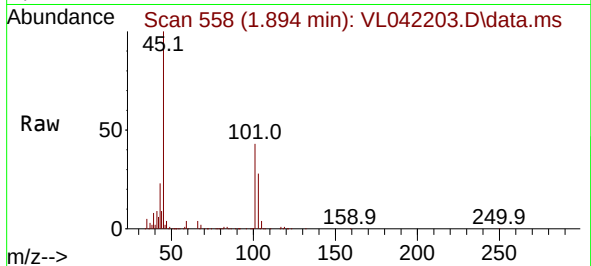




#19  
Isopropyl Alcohol  
Concen: 9.193 ppbv  
RT: 1.894 min Scan# 51  
Delta R.T. 0.009 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

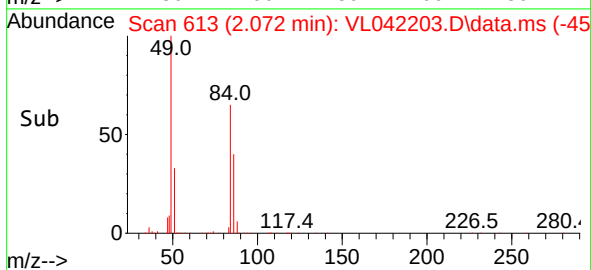
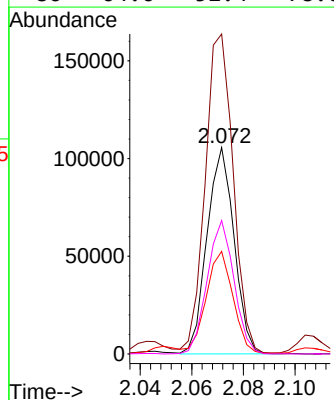
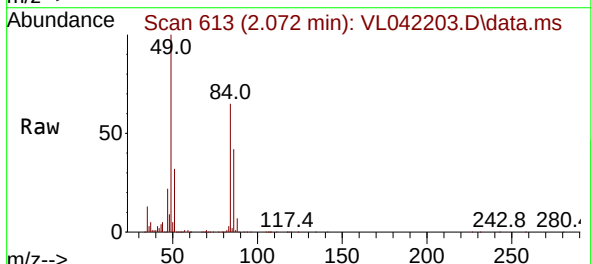
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

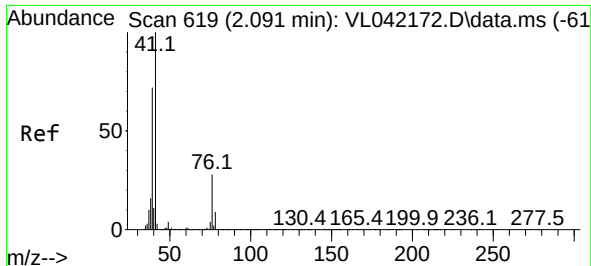
Tgt Ion: 45 Resp: 127449  
Ion Ratio Lower Upper  
45 100  
58 45.3 36.9 55.3



#20  
Methylene Chloride  
Concen: 8.391 ppbv  
RT: 2.072 min Scan# 613  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 84 Resp: 76788  
Ion Ratio Lower Upper  
84 100  
49 154.6 120.2 180.4  
51 49.3 37.4 56.0  
86 64.6 52.4 78.6

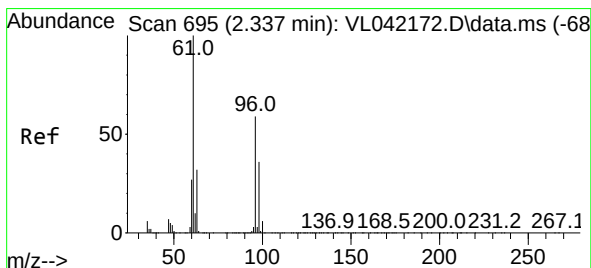
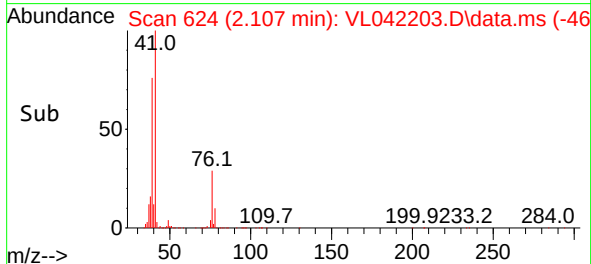
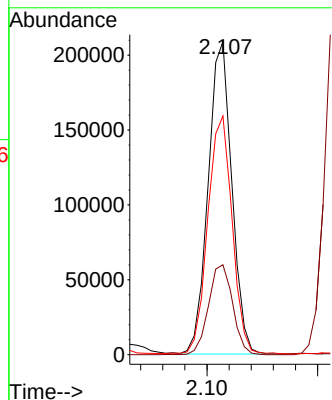
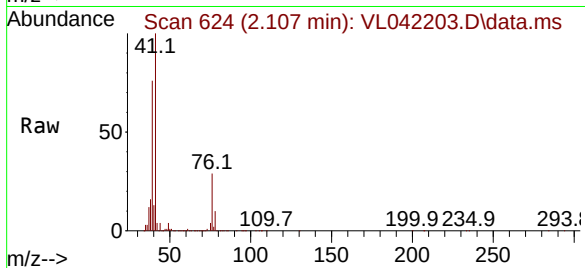




#21  
 Allyl Chloride  
 Concen: 8.938 ppbv  
 RT: 2.107 min Scan# 61  
 Delta R.T. 0.016 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

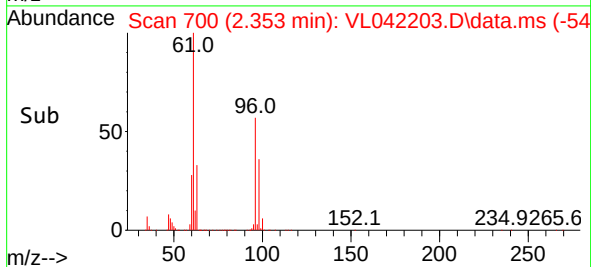
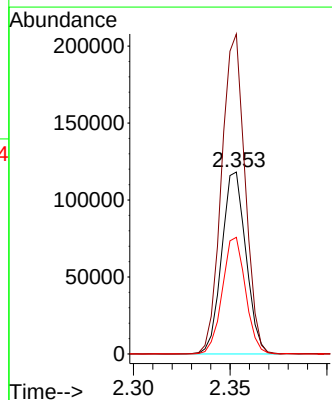
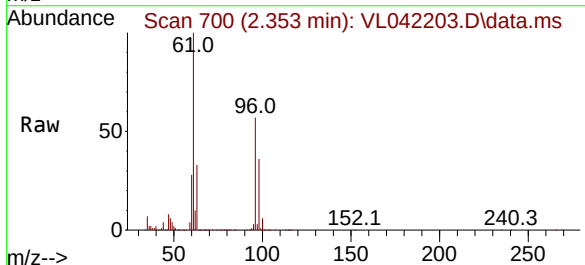
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0331ABS01

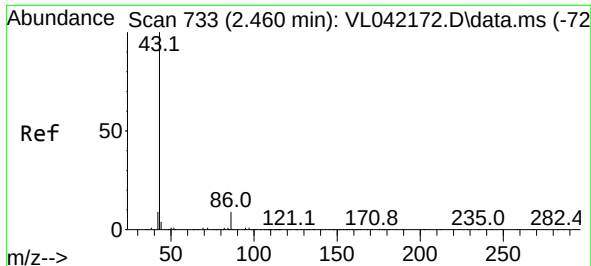
Tgt Ion: 41 Resp: 154876  
 Ion Ratio Lower Upper  
 41 100  
 76 29.3 24.1 36.1  
 39 78.1 61.1 91.7



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.157 ppbv  
 RT: 2.353 min Scan# 700  
 Delta R.T. 0.016 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

Tgt Ion: 96 Resp: 102643  
 Ion Ratio Lower Upper  
 96 100  
 61 175.8 136.6 204.8  
 98 64.1 49.4 74.2

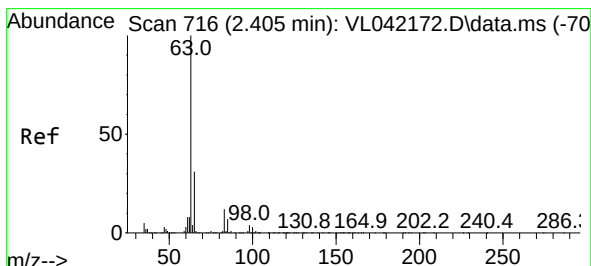
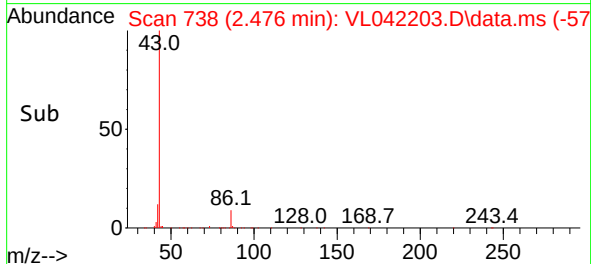
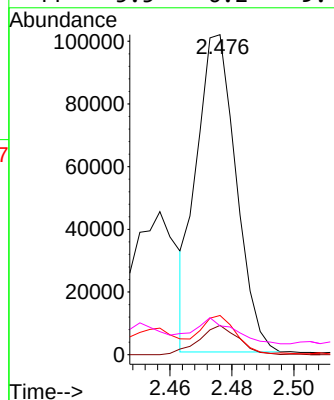
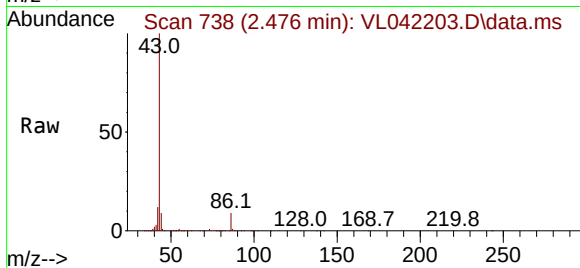




#23  
Vinyl Acetate  
Concen: 8.441 ppbv  
RT: 2.476 min Scan# 71  
Delta R.T. 0.016 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

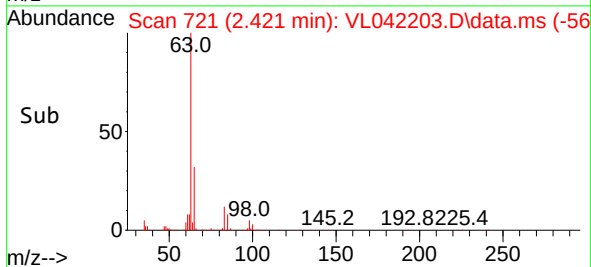
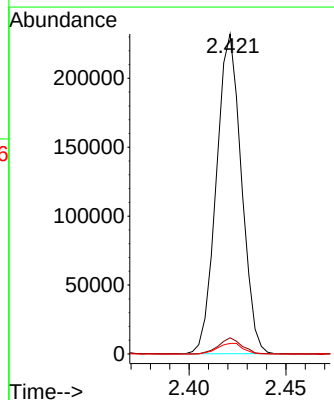
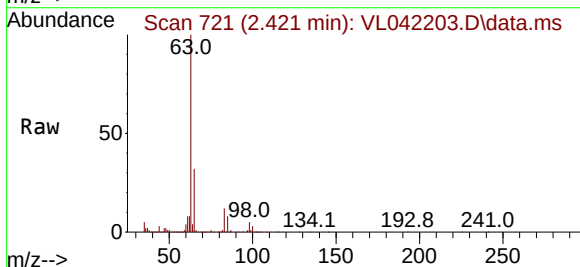
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

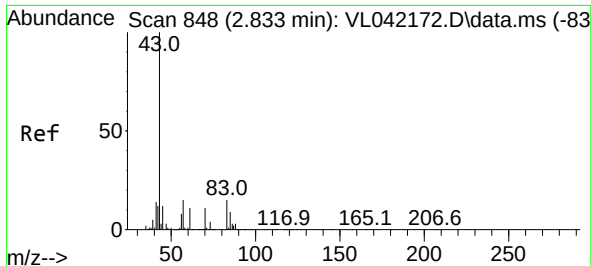
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 89760 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 9.2   | 5.5   | 8.3#  |
| 42       | 11.8  | 8.6   | 13.0  |
| 44       | 5.5   | 6.2   | 9.4#  |



#24  
1,1-Dichloroethane  
Concen: 10.026 ppbv  
RT: 2.421 min Scan# 721  
Delta R.T. 0.016 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 208334 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 5.0   | 2.3   | 6.8    |
| 100      | 3.3   | 1.6   | 4.7    |

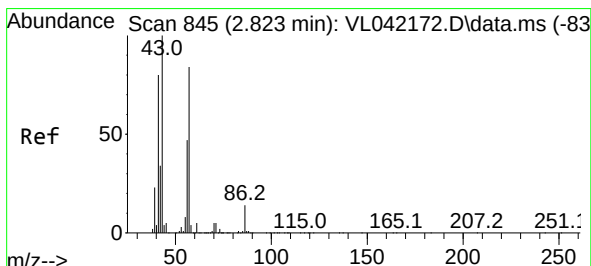
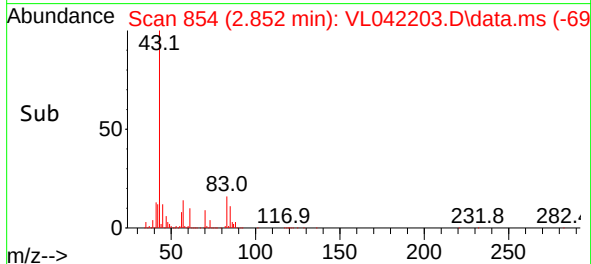
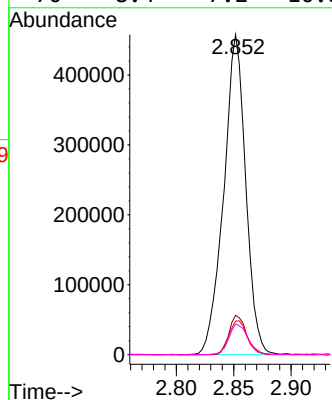
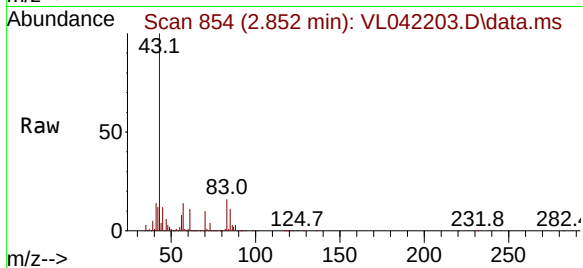




#25  
Ethyl Acetate  
Concen: 9.565 ppbv  
RT: 2.852 min Scan# 81  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

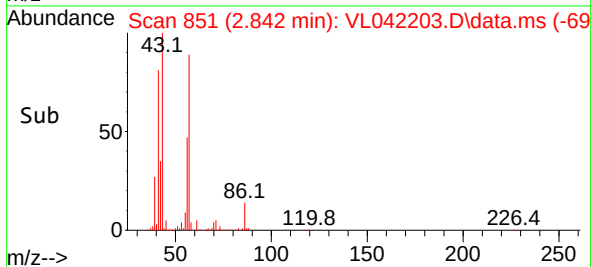
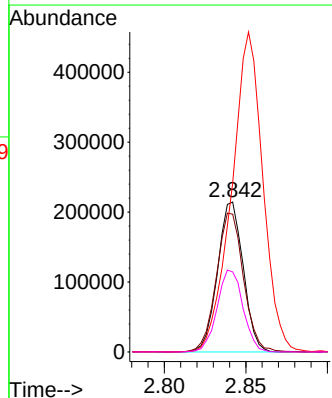
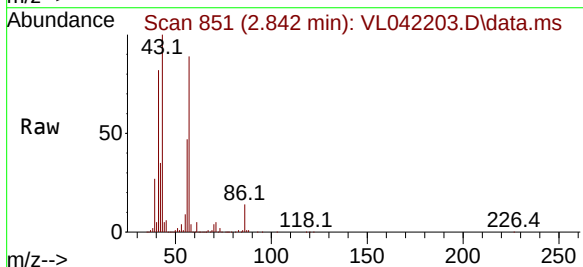
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 609975 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 45 9.9      | 8.2 12.2     |
| 61 8.8      | 7.3 10.9     |
| 70 8.4      | 7.2 10.8     |

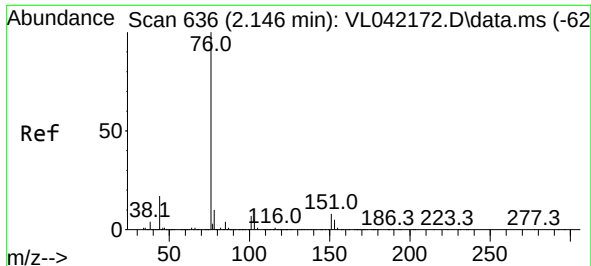


#26  
Hexane  
Concen: 9.511 ppbv  
RT: 2.842 min Scan# 851  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

|     |         |              |       |
|-----|---------|--------------|-------|
| Tgt | Ion: 57 | Resp: 234267 |       |
|     | Ratio   | Lower        | Upper |
| 57  | 100     |              |       |
| 41  | 97.6    | 76.6         | 114.8 |
| 43  | 261.1   | 207.8        | 311.8 |
| 56  | 55.2    | 43.6         | 65.4  |



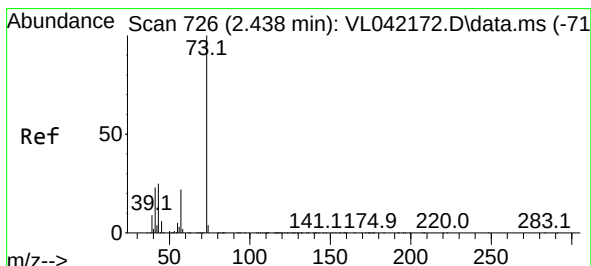
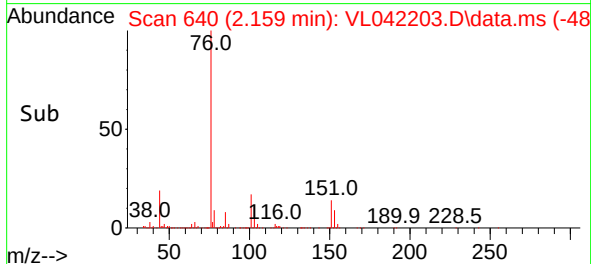
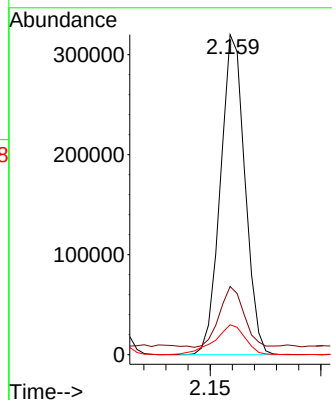
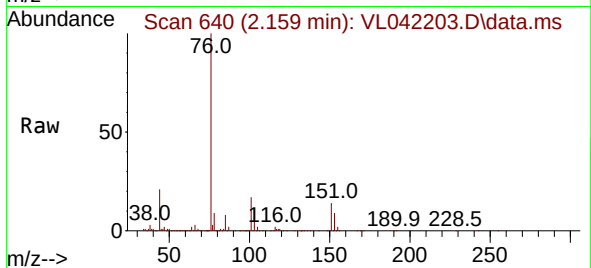




#27  
Carbon Disulfide  
Concen: 9.310 ppbv  
RT: 2.159 min Scan# 640  
Delta R.T. 0.013 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

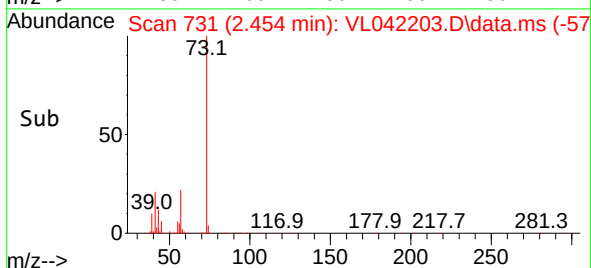
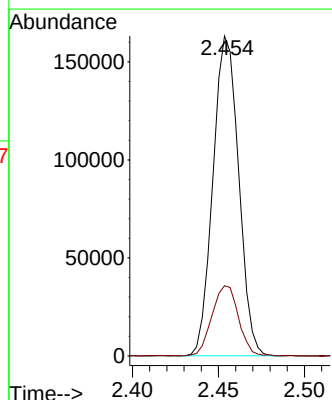
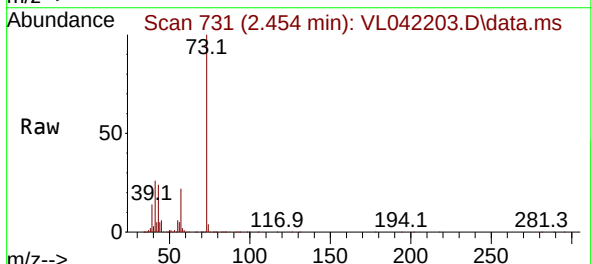
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

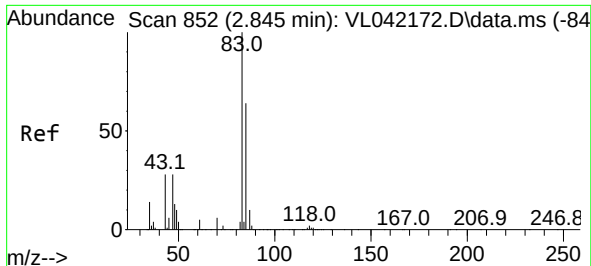
Tgt Ion: 76 Resp: 245905  
Ion Ratio Lower Upper  
76 100  
44 19.4 14.7 22.1  
78 11.7 9.3 13.9



#28  
Methyl tert-Butyl Ether  
Concen: 11.046 ppbv  
RT: 2.454 min Scan# 731  
Delta R.T. 0.016 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 73 Resp: 169404  
Ion Ratio Lower Upper  
73 100  
57 22.8 20.5 30.7





#29

Chloroform

Concen: 10.616 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

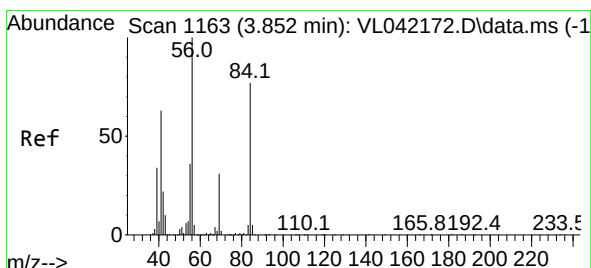
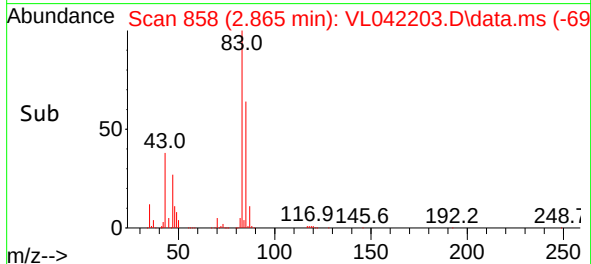
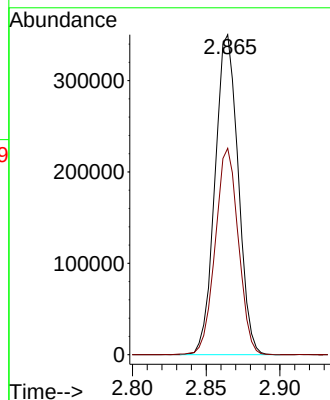
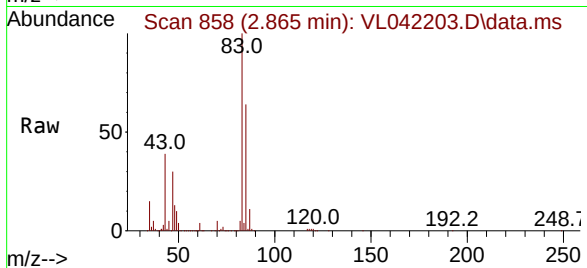
VL0331ABS01

Tgt Ion: 83 Resp: 382690

Ion Ratio Lower Upper

83 100

85 64.5 51.4 77.2



#30

Cyclohexane

Concen: 9.393 ppbv

RT: 3.881 min Scan# 1172

Delta R.T. 0.029 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

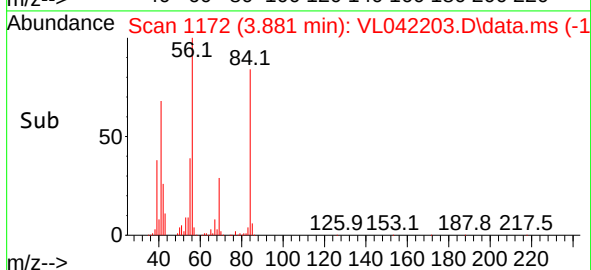
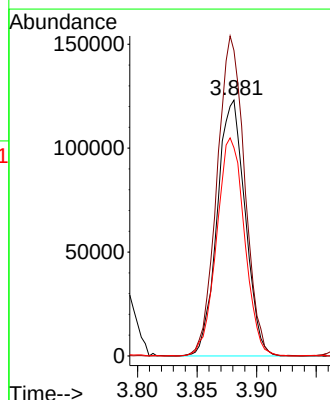
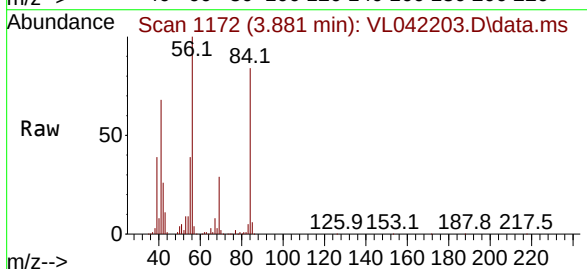
Tgt Ion: 84 Resp: 200894

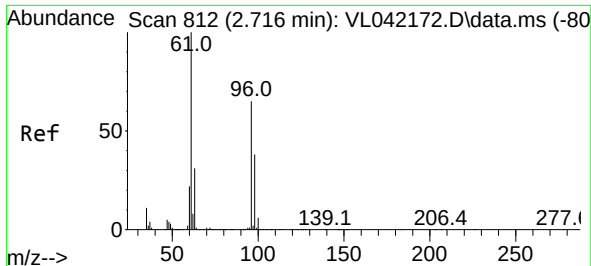
Ion Ratio Lower Upper

84 100

56 123.7 102.8 154.2

41 85.2 66.5 99.7

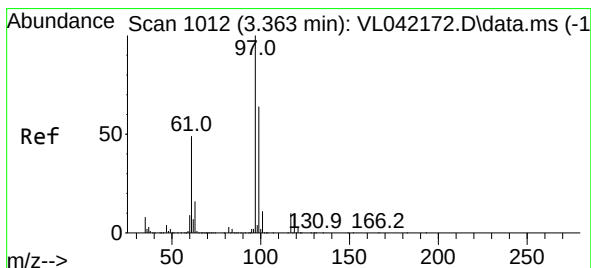
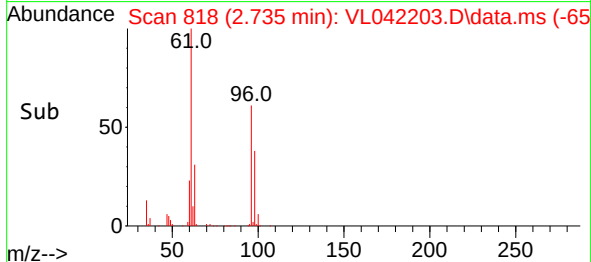
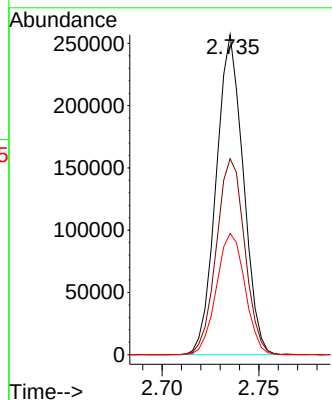
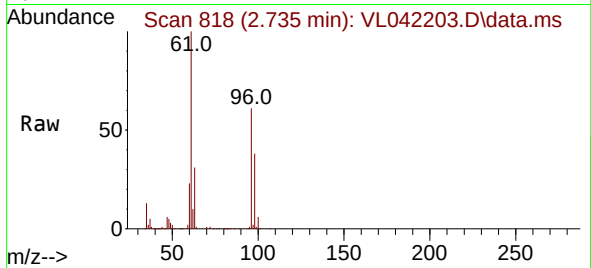




#31  
 cis-1,2-Dichloroethene  
 Concen: 9.981 ppbv  
 RT: 2.735 min Scan# 812  
 Delta R.T. 0.019 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

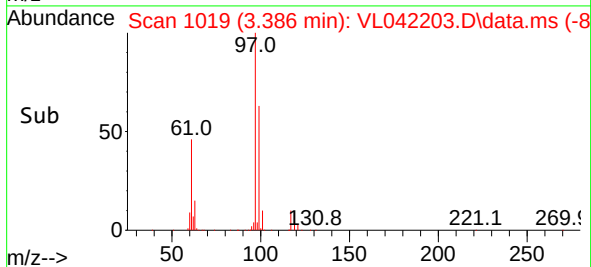
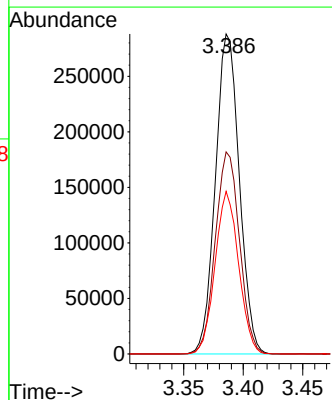
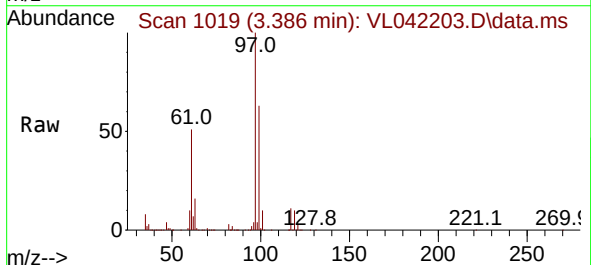
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0331ABS01

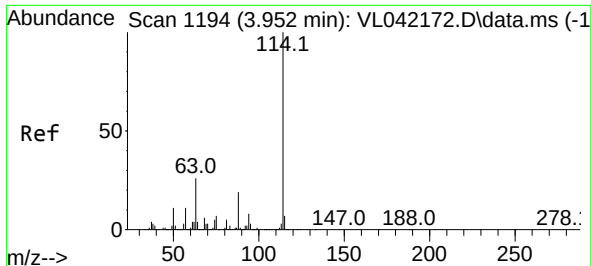
Tgt Ion: 61 Resp: 249599  
 Ion Ratio Lower Upper  
 61 100  
 96 61.3 51.8 77.8  
 98 38.0 30.6 46.0



#32  
 1,1,1-Trichloroethane  
 Concen: 9.753 ppbv  
 RT: 3.386 min Scan# 1019  
 Delta R.T. 0.022 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

Tgt Ion: 97 Resp: 402506  
 Ion Ratio Lower Upper  
 97 100  
 99 63.8 51.5 77.3  
 61 50.0 38.7 58.1

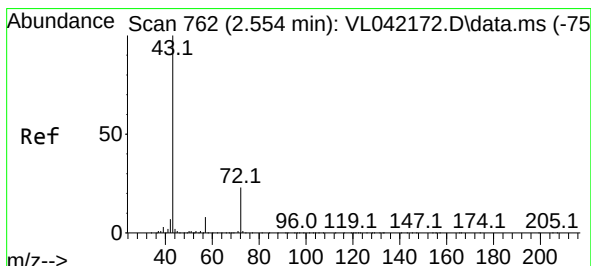
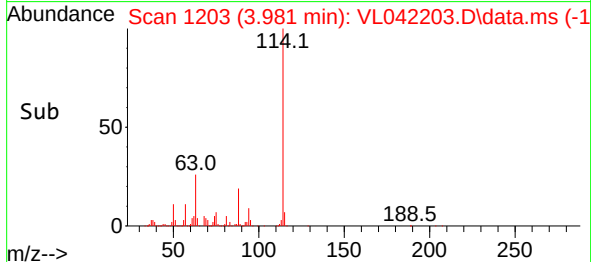
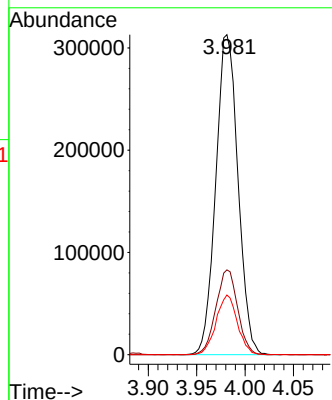
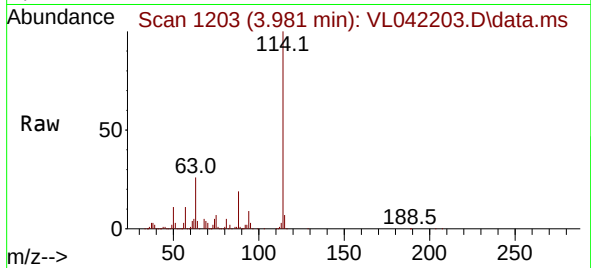




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.981 min Scan# 1194  
 Delta R.T. 0.029 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

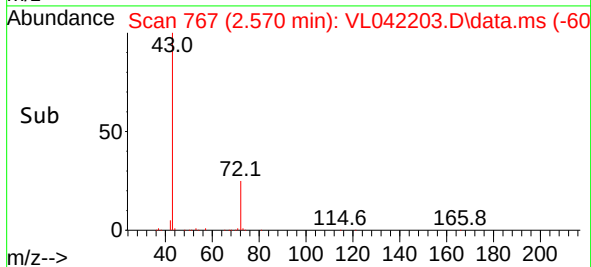
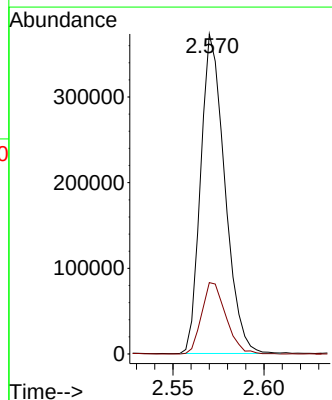
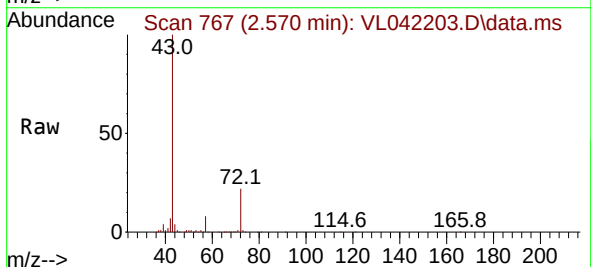
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0331ABS01

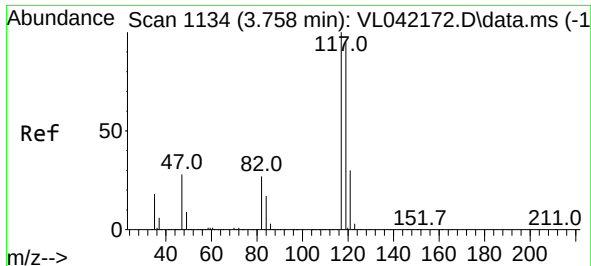
Tgt Ion:114 Resp: 498986  
 Ion Ratio Lower Upper  
 114 100  
 63 26.0 20.7 31.1  
 88 17.9 15.0 22.4



#34  
 2-Butanone  
 Concen: 9.504 ppbv  
 RT: 2.570 min Scan# 767  
 Delta R.T. 0.016 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

Tgt Ion: 43 Resp: 343896  
 Ion Ratio Lower Upper  
 43 100  
 72 22.6 18.2 27.2

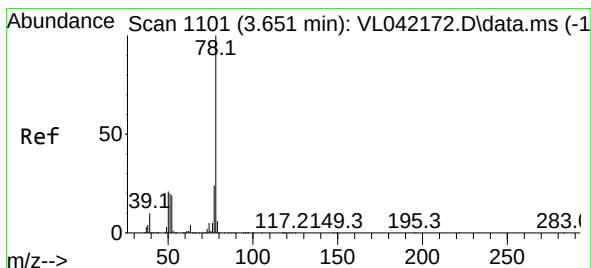
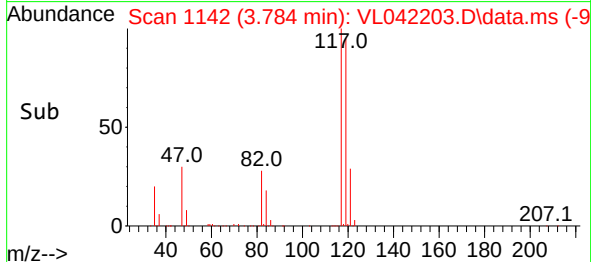
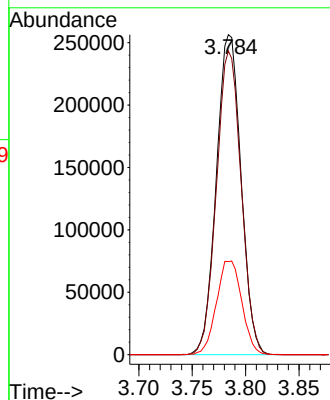
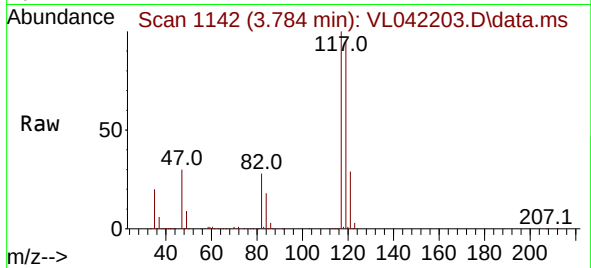




#35  
Carbon Tetrachloride  
Concen: 10.578 ppbv  
RT: 3.784 min Scan# 1134  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

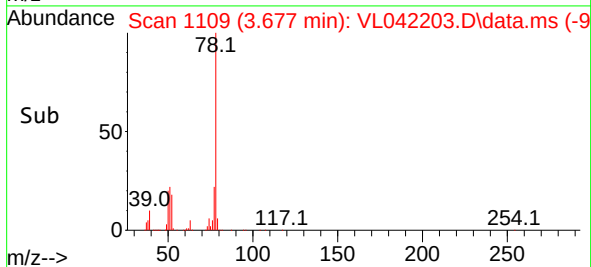
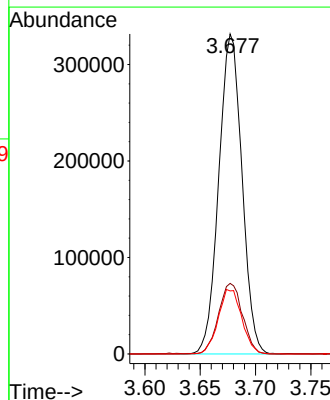
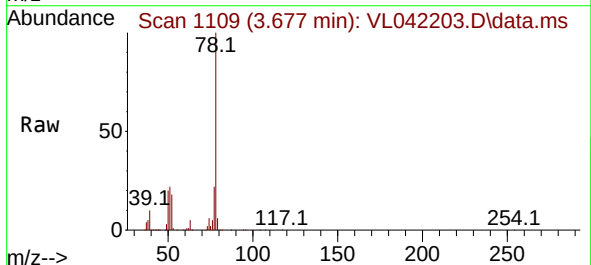
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

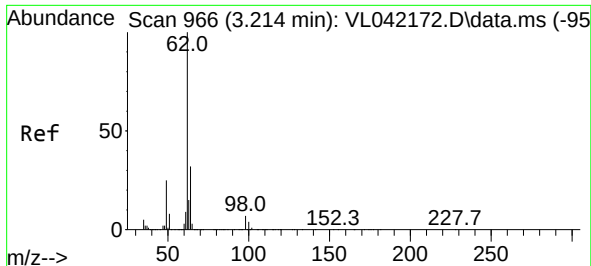
Tgt Ion:117 Resp: 412312  
Ion Ratio Lower Upper  
117 100  
119 94.9 76.2 114.2  
121 29.1 24.2 36.4



#36  
Benzene  
Concen: 9.754 ppbv  
RT: 3.677 min Scan# 1109  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 78 Resp: 482499  
Ion Ratio Lower Upper  
78 100  
77 22.0 19.1 28.7  
50 19.7 16.6 24.8

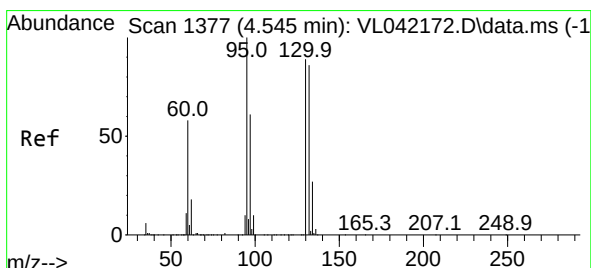
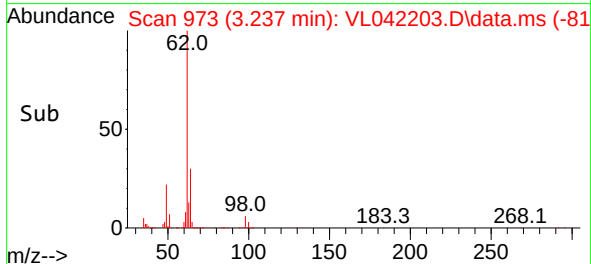
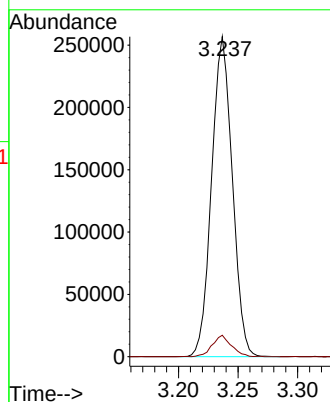
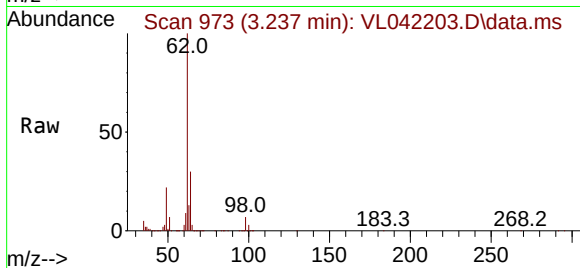




#37  
1,2-Dichloroethane  
Concen: 10.964 ppbv  
RT: 3.237 min Scan# 91  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

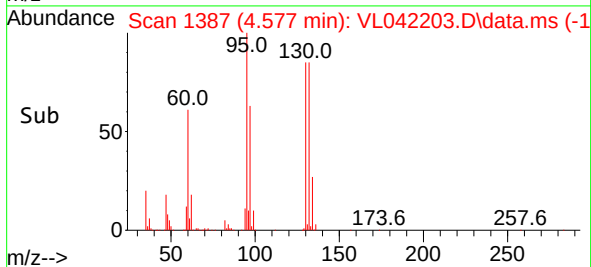
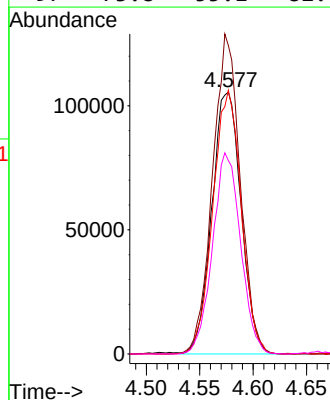
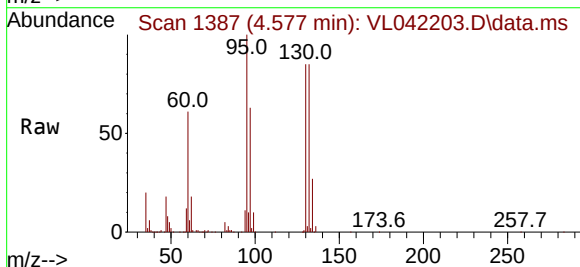
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

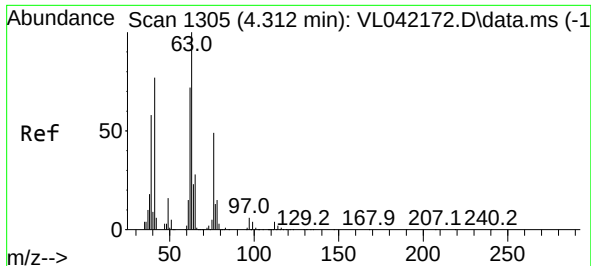
Tgt Ion: 62 Resp: 310502  
Ion Ratio Lower Upper  
62 100  
98 6.3 5.4 8.2



#38  
Trichloroethene  
Concen: 9.749 ppbv  
RT: 4.577 min Scan# 1387  
Delta R.T. 0.032 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion:130 Resp: 201215  
Ion Ratio Lower Upper  
130 100  
95 117.8 89.8 134.8  
132 100.6 77.4 116.2  
97 73.8 55.1 82.7





#39

1,2-Dichloropropane

Concen: 9.665 ppbv

RT: 4.340 min Scan# 11

Delta R.T. 0.029 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VL0331ABS01

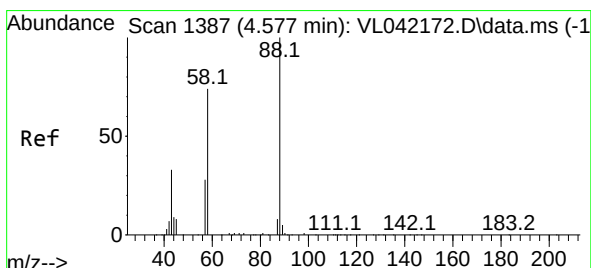
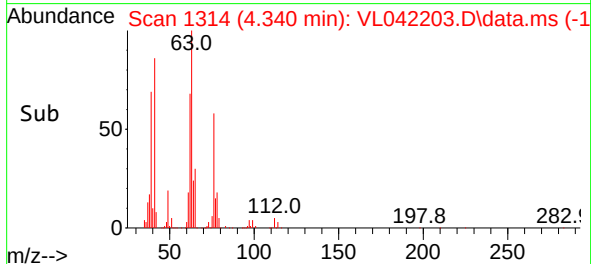
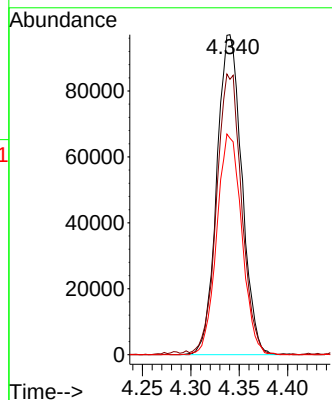
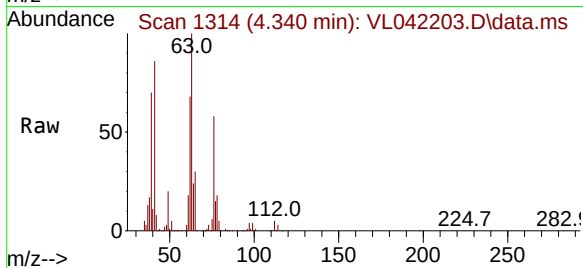
Tgt Ion: 63 Resp: 174119

Ion Ratio Lower Upper

63 100

41 85.8 61.7 92.5

62 67.7 57.6 86.4



#40

1,4-Dioxane

Concen: 8.872 ppbv

RT: 4.616 min Scan# 1399

Delta R.T. 0.039 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

Tgt Ion: 88 Resp: 84833

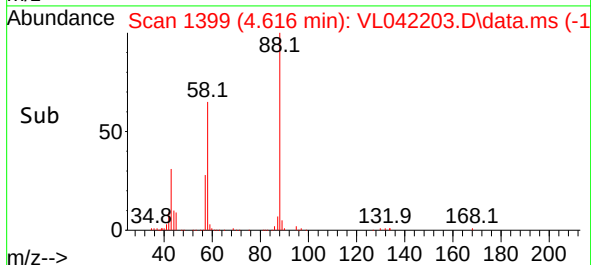
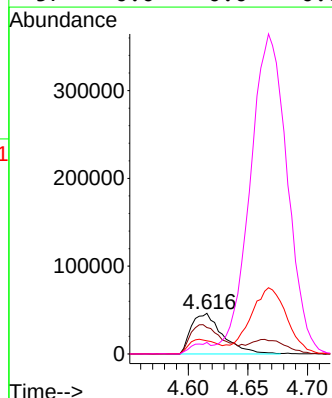
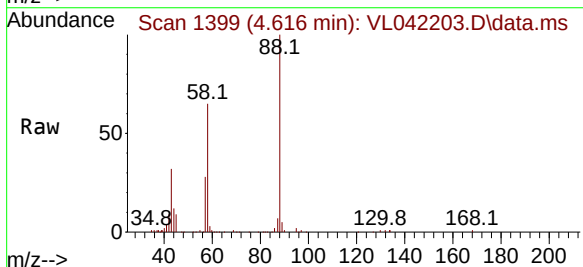
Ion Ratio Lower Upper

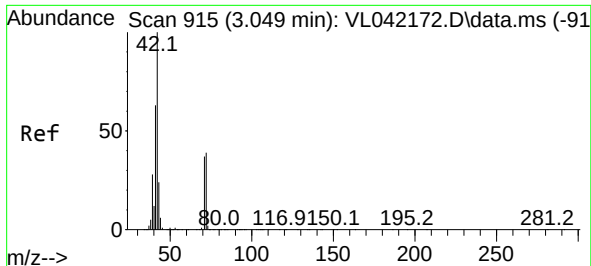
88 100

58 71.2 62.7 94.1

43 34.3 23.0 34.4

57 0.0 0.0 0.0

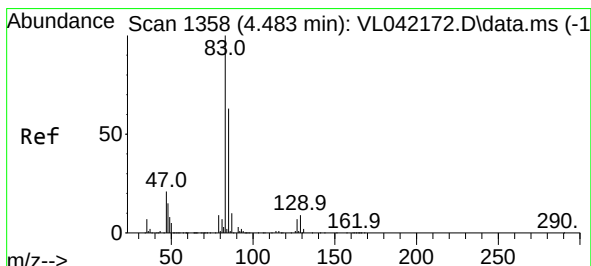
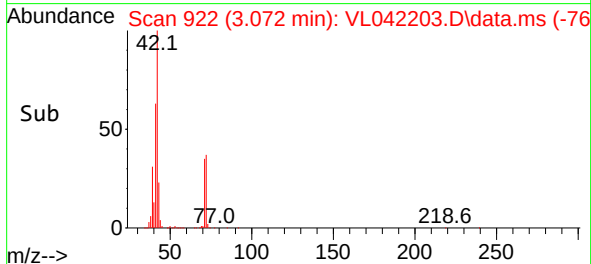
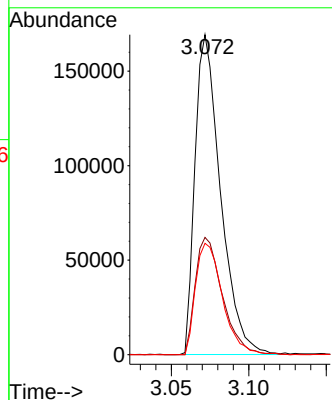
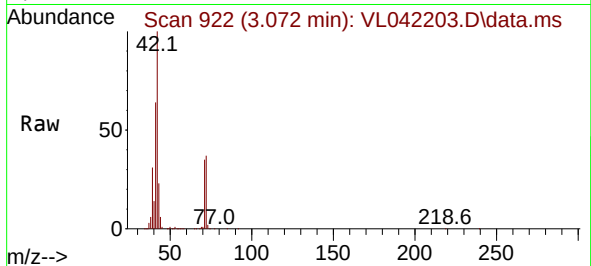




#41  
Tetrahydrofuran  
Concen: 9.318 ppbv  
RT: 3.072 min Scan# 915  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

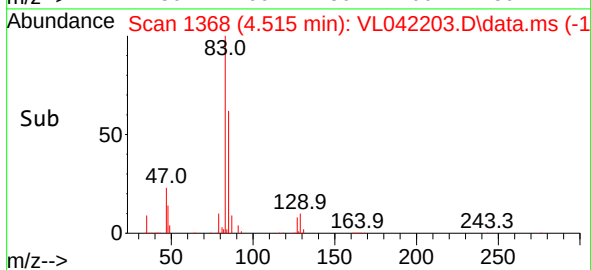
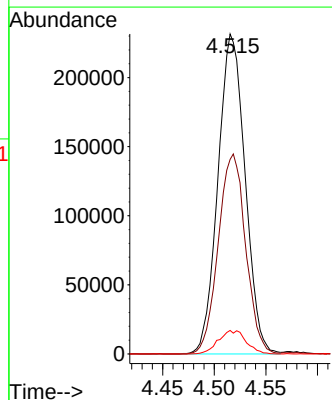
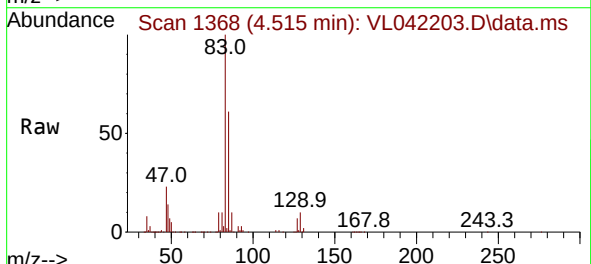
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

Tgt Ion: 42 Resp: 194140  
Ion Ratio Lower Upper  
42 100  
72 38.9 31.4 47.0  
71 36.9 30.2 45.4

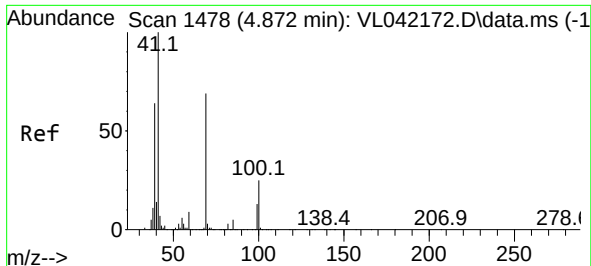


#42  
Bromodichloromethane  
Concen: 10.831 ppbv  
RT: 4.515 min Scan# 1368  
Delta R.T. 0.032 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 83 Resp: 422881  
Ion Ratio Lower Upper  
83 100  
85 60.8 50.5 75.7  
127 7.4 5.9 8.9



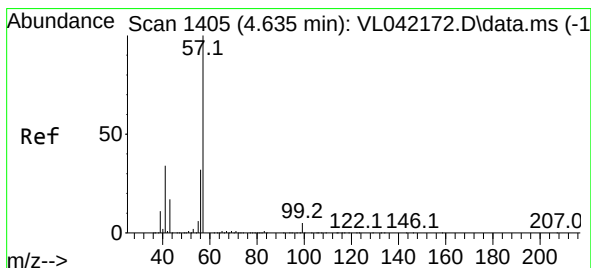
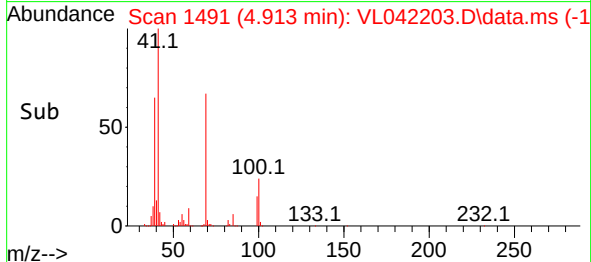
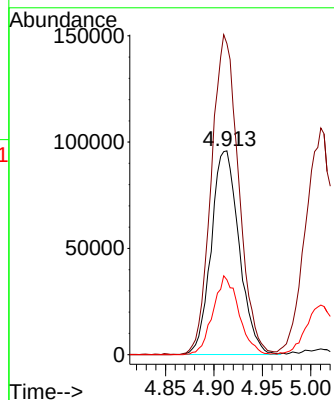
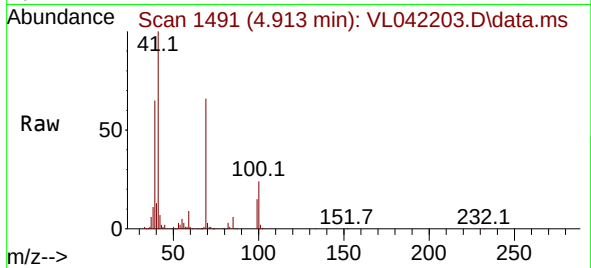




#43  
Methyl Methacrylate  
Concen: 9.163 ppbv  
RT: 4.913 min Scan# 1415  
Delta R.T. 0.042 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

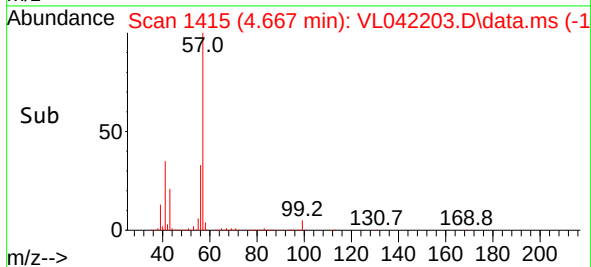
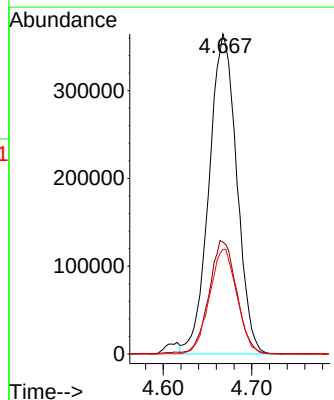
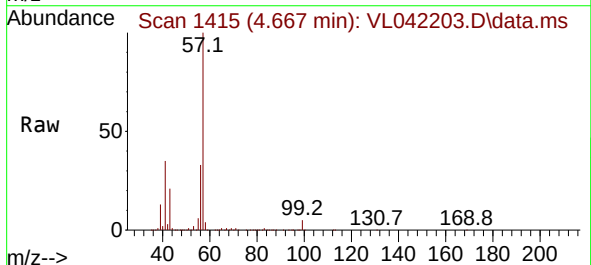
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

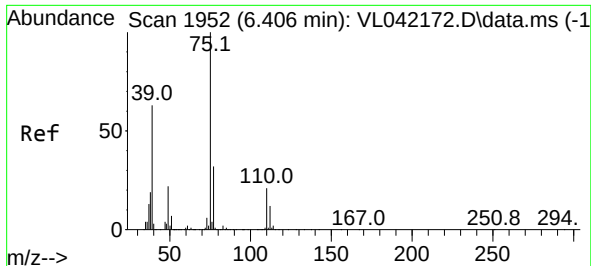
Tgt Ion: 69 Resp: 191894  
Ion Ratio Lower Upper  
69 100  
41 154.2 123.8 185.6  
100 36.0 28.4 42.6



#44  
2,2,4-Trimethylpentane  
Concen: 9.483 ppbv  
RT: 4.667 min Scan# 1415  
Delta R.T. 0.032 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 57 Resp: 792762  
Ion Ratio Lower Upper  
57 100  
41 35.5 26.8 40.2  
56 32.6 25.6 38.4

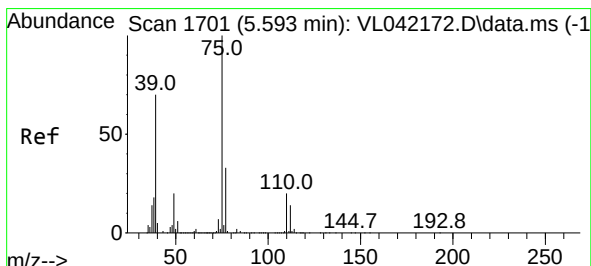
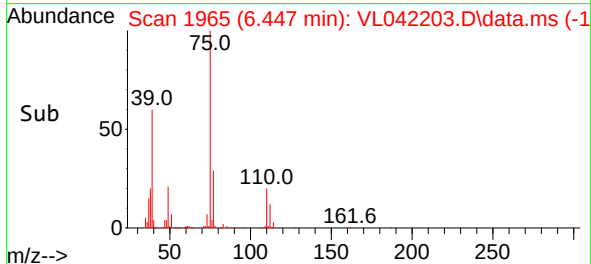
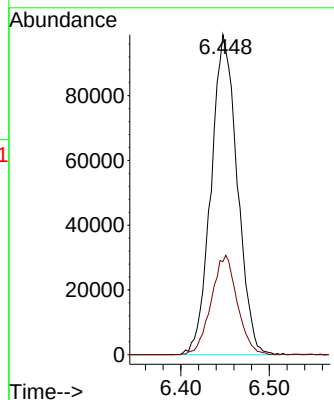
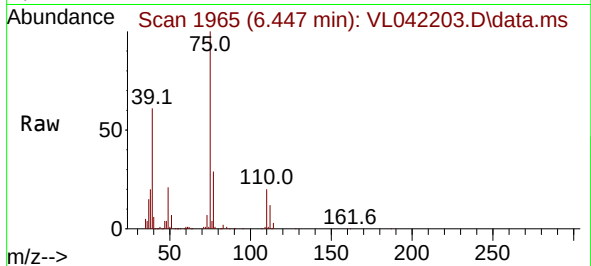




#45  
 t-1,3-Dichloropropene  
 Concen: 9.071 ppbv  
 RT: 6.447 min Scan# 1952  
 Delta R.T. 0.042 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

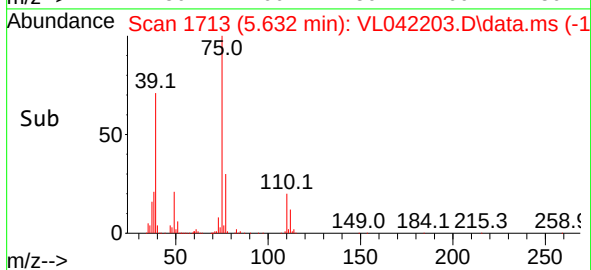
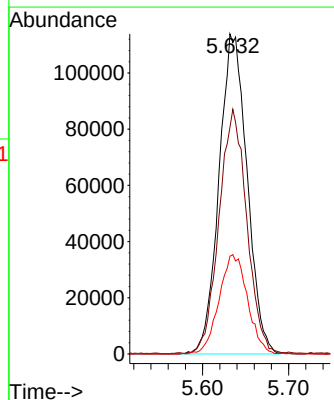
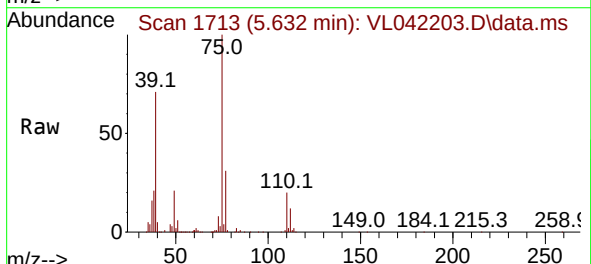
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0331ABS01

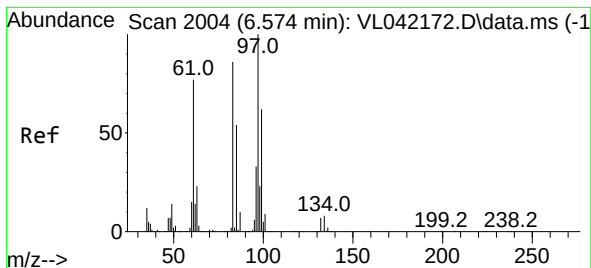
Tgt Ion: 75 Resp: 203792  
 Ion Ratio Lower Upper  
 75 100  
 77 29.1 26.0 39.0



#46  
 cis-1,3-Dichloropropene  
 Concen: 9.371 ppbv  
 RT: 5.632 min Scan# 1713  
 Delta R.T. 0.039 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

Tgt Ion: 75 Resp: 258084  
 Ion Ratio Lower Upper  
 75 100  
 39 70.4 55.8 83.6  
 77 30.5 26.0 39.0





#47

1,1,2-Trichloroethane

Concen: 10.197 ppbv

RT: 6.616 min Scan# 20

Delta R.T. 0.042 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VL0331ABS01

Tgt Ion: 97 Resp: 194204

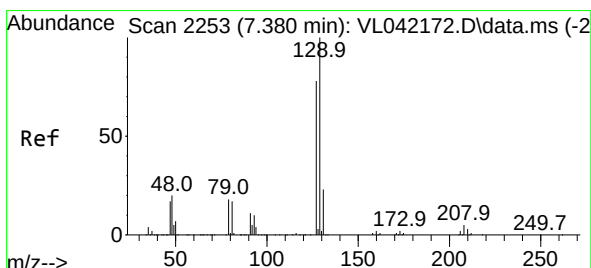
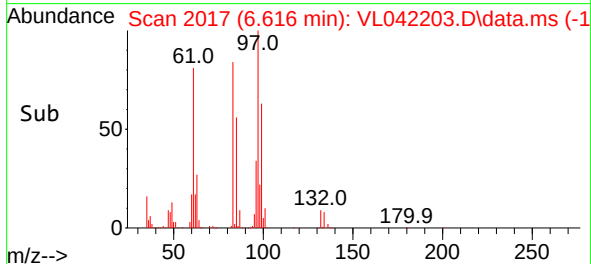
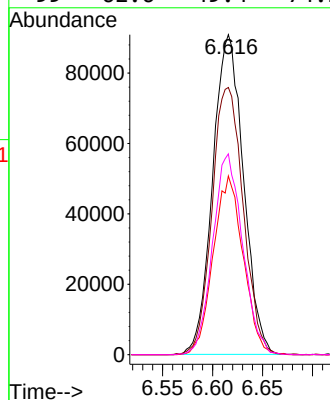
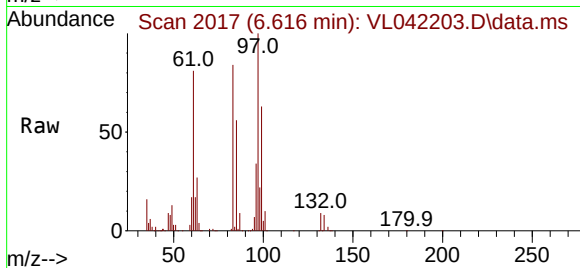
Ion Ratio Lower Upper

97 100

83 83.4 69.2 103.8

85 55.8 43.1 64.7

99 62.6 49.4 74.2



#48

Dibromochloromethane

Concen: 10.604 ppbv

RT: 7.415 min Scan# 2264

Delta R.T. 0.035 min

Lab File: VL042203.D

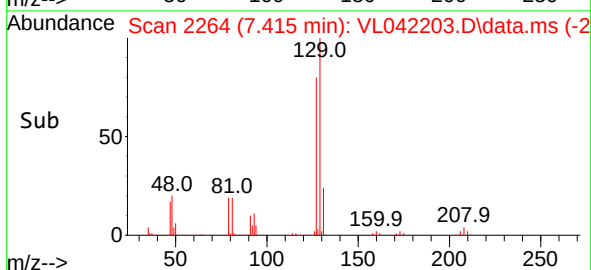
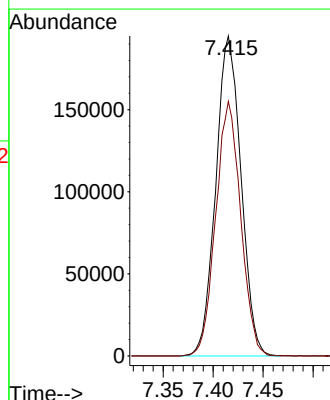
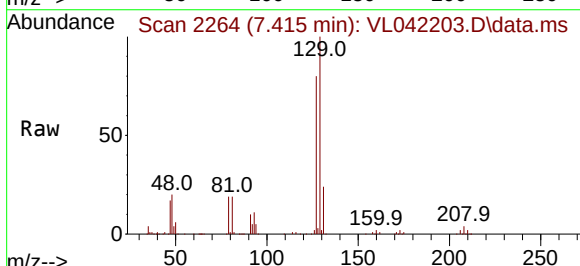
Acq: 31 Mar 2025 10:17

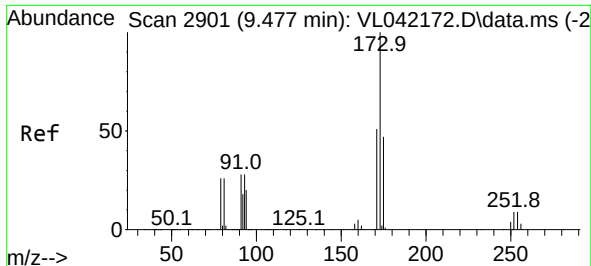
Tgt Ion: 129 Resp: 342254

Ion Ratio Lower Upper

129 100

127 78.7 39.1 117.2

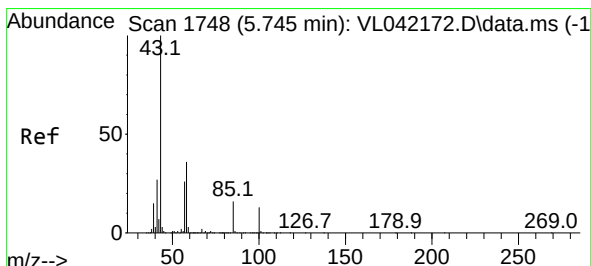
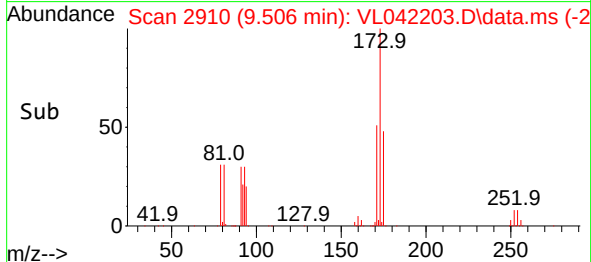
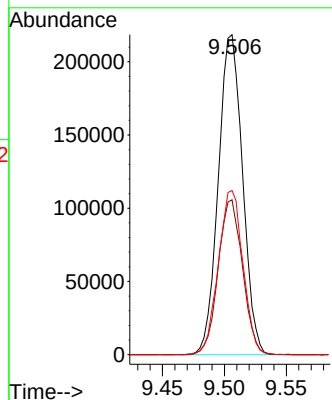
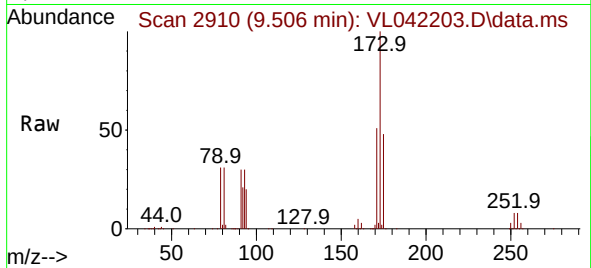




#49  
Bromoform  
Concen: 10.296 ppbv  
RT: 9.506 min Scan# 2901  
Delta R.T. 0.029 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

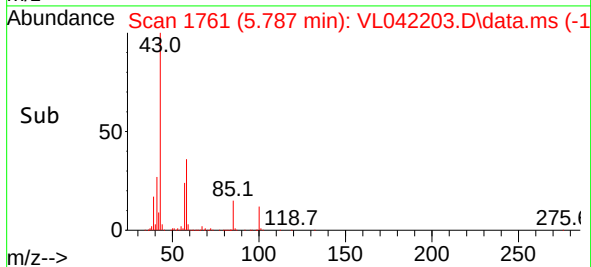
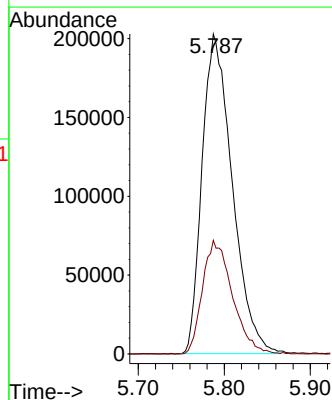
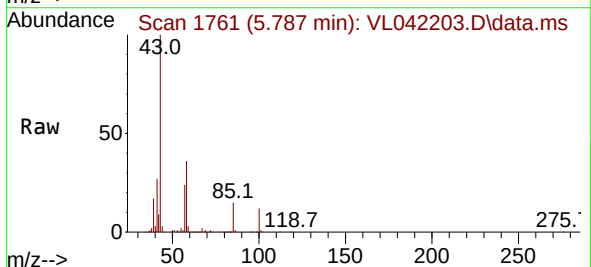
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

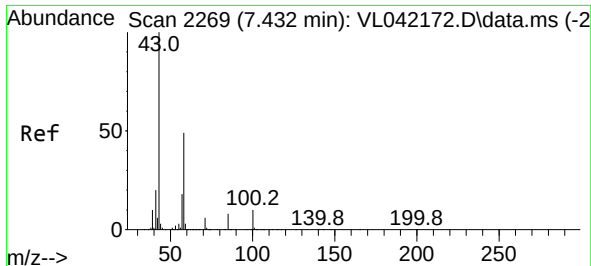
Tgt Ion:173 Resp: 298349  
Ion Ratio Lower Upper  
173 100  
175 48.6 38.6 57.8  
171 52.0 41.8 62.6



#50  
4-Methyl-2-Pentanone  
Concen: 8.603 ppbv  
RT: 5.787 min Scan# 1761  
Delta R.T. 0.042 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 43 Resp: 493320  
Ion Ratio Lower Upper  
43 100  
58 35.2 29.0 43.6

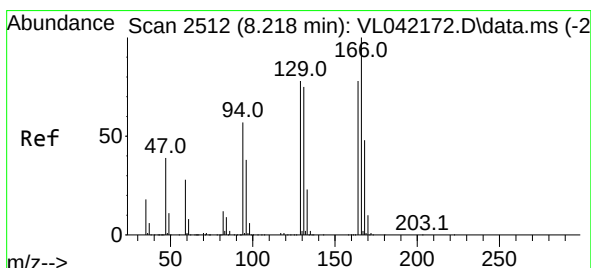
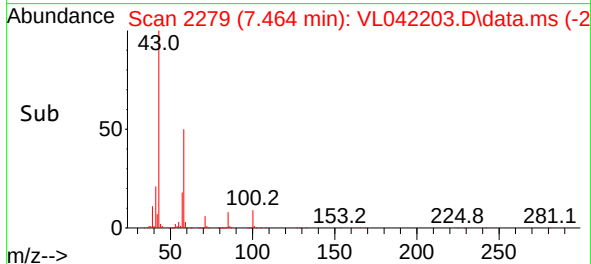
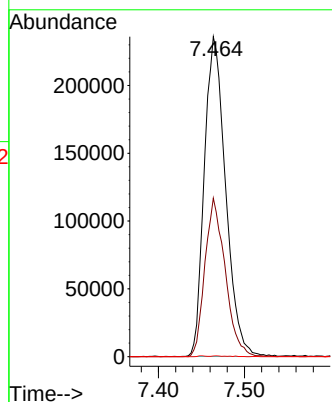
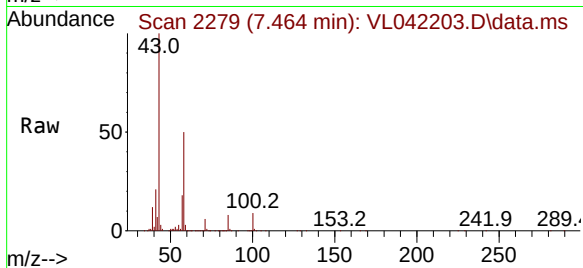




#51  
2-Hexanone  
Concen: 8.613 ppbv  
RT: 7.464 min Scan# 21  
Delta R.T. 0.032 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

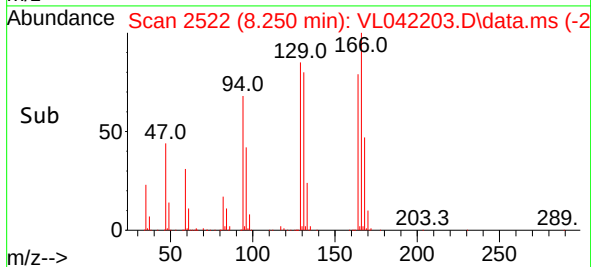
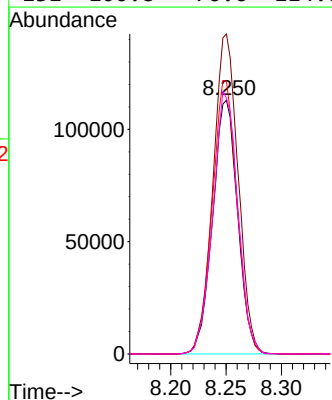
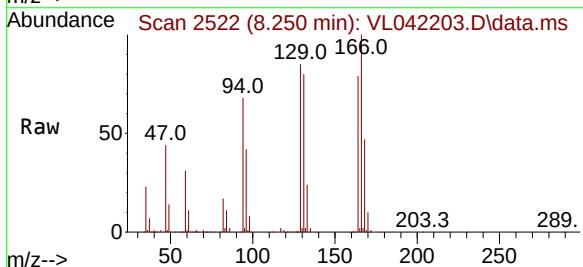
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

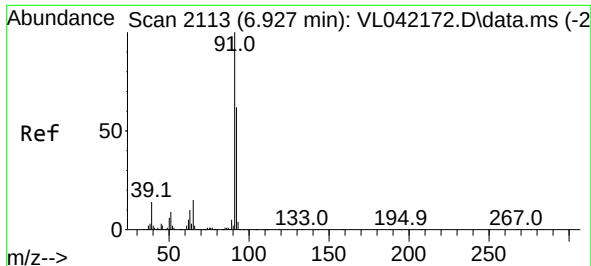
Tgt Ion: 43 Resp: 405558  
Ion Ratio Lower Upper  
43 100  
58 47.4 39.7 59.5  
98 0.1 0.1 0.1



#52  
Tetrachloroethene  
Concen: 9.012 ppbv  
RT: 8.250 min Scan# 2522  
Delta R.T. 0.032 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 164 Resp: 176804  
Ion Ratio Lower Upper  
164 100  
166 126.1 102.5 153.7  
129 107.5 79.8 119.8  
131 100.8 76.6 114.8

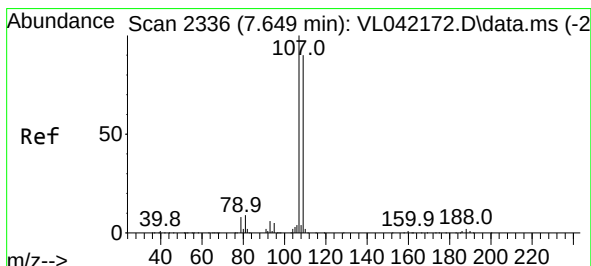
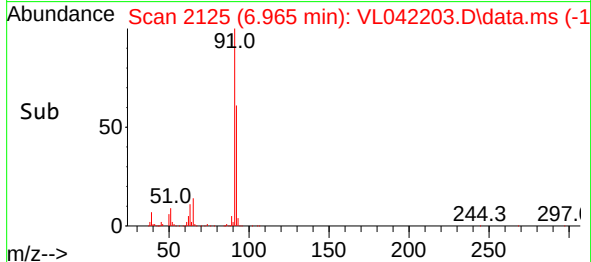
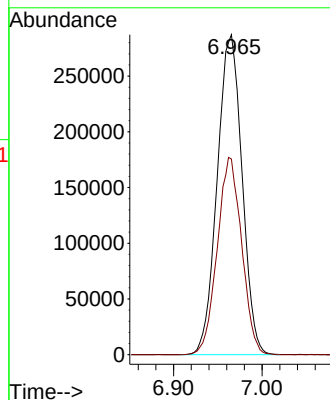
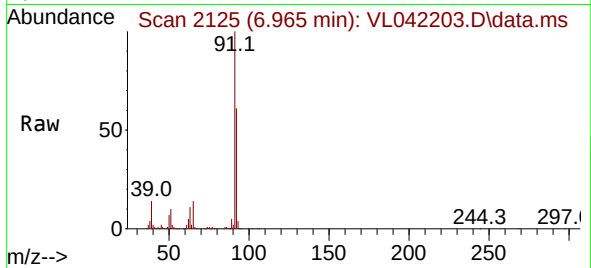




#53  
Toluene  
Concen: 9.555 ppbv  
RT: 6.965 min Scan# 2113  
Delta R.T. 0.039 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

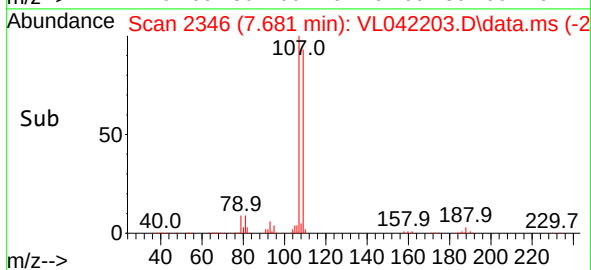
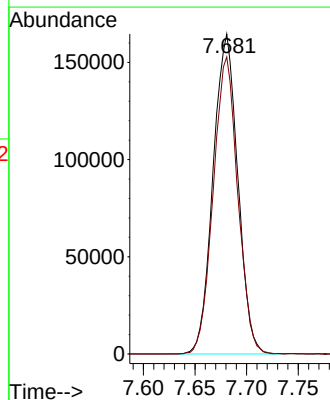
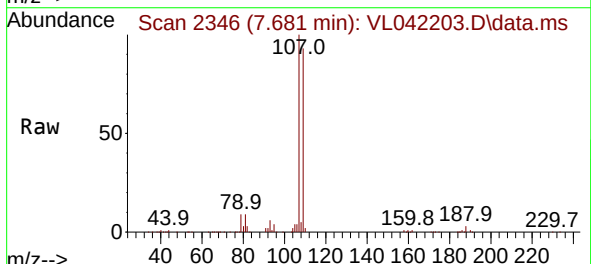
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

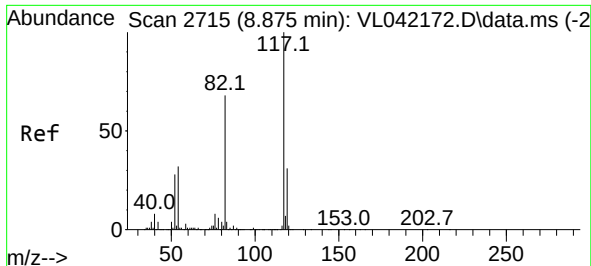
Tgt Ion: 91 Resp: 560307  
Ion Ratio Lower Upper  
91 100  
92 60.5 48.4 72.6



#54  
1,2-Dibromoethane  
Concen: 10.298 ppbv  
RT: 7.681 min Scan# 2346  
Delta R.T. 0.032 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 107 Resp: 273381  
Ion Ratio Lower Upper  
107 100  
109 92.7 72.2 108.4

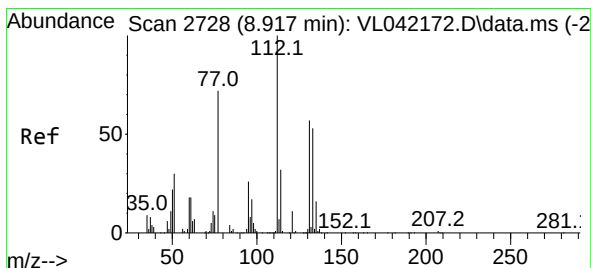
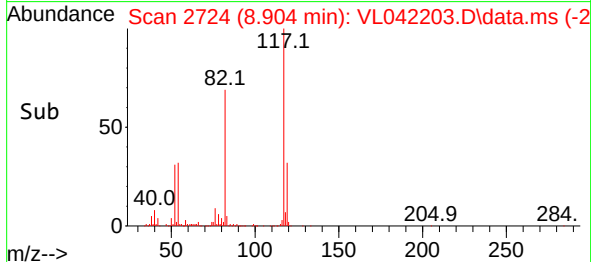
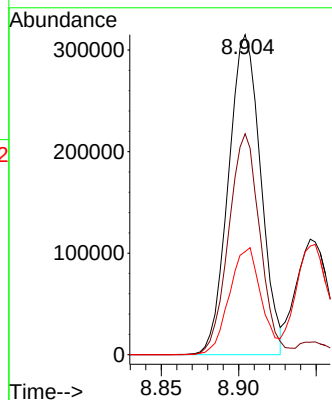
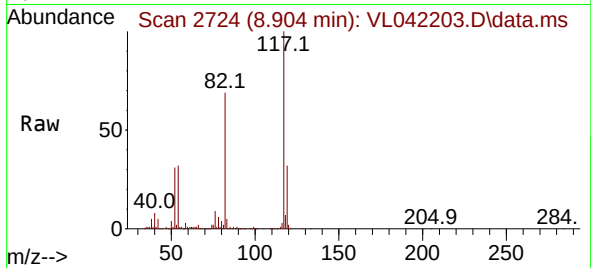




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.904 min Scan# 21  
Delta R.T. 0.029 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

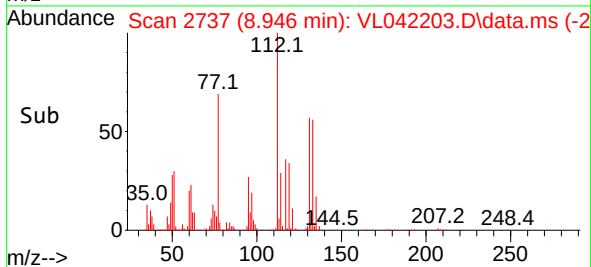
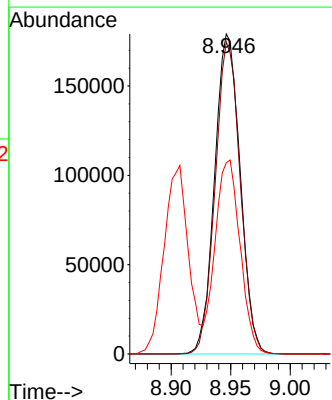
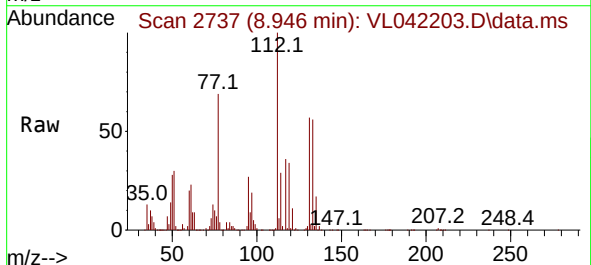
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

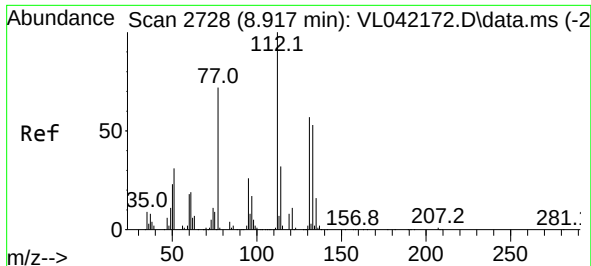
Tgt Ion:117 Resp: 456400  
Ion Ratio Lower Upper  
117 100  
82 70.9 55.8 83.6  
119 34.4 25.5 38.3



#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.607 ppbv  
RT: 8.946 min Scan# 2737  
Delta R.T. 0.029 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion:131 Resp: 266468  
Ion Ratio Lower Upper  
131 100  
133 95.6 76.6 114.8  
119 57.5 49.8 74.6

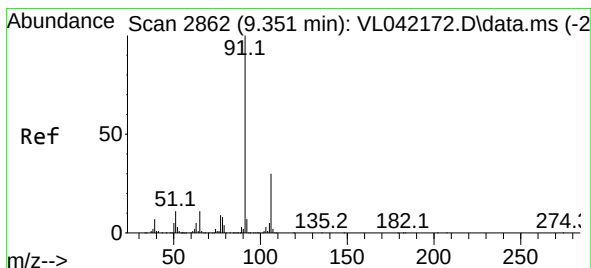
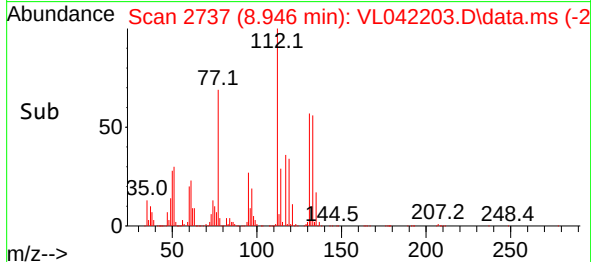
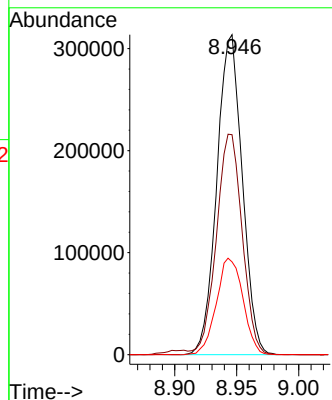
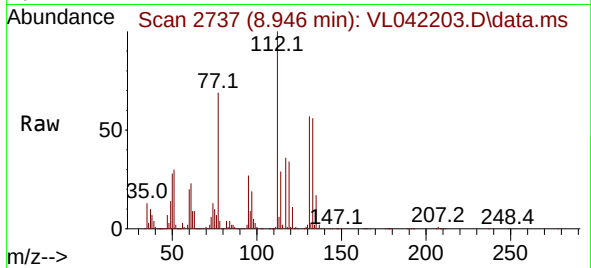




#57  
Chlorobenzene  
Concen: 10.368 ppbv  
RT: 8.946 min Scan# 211  
Delta R.T. 0.029 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

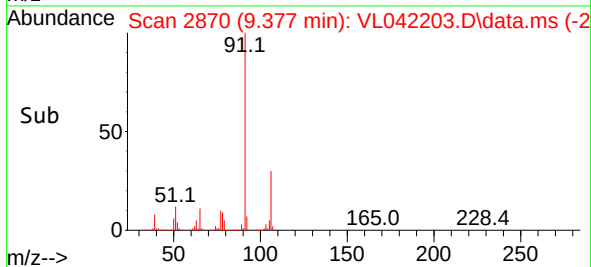
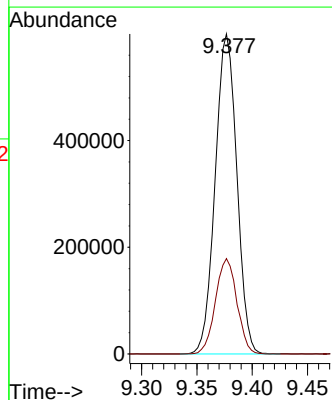
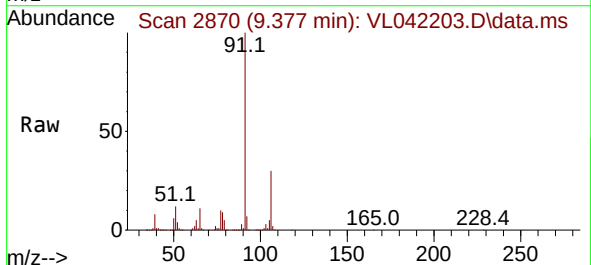
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

Tgt Ion:112 Resp: 448854  
Ion Ratio Lower Upper  
112 100  
77 68.7 58.2 87.2  
114 29.0 29.1 35.5#

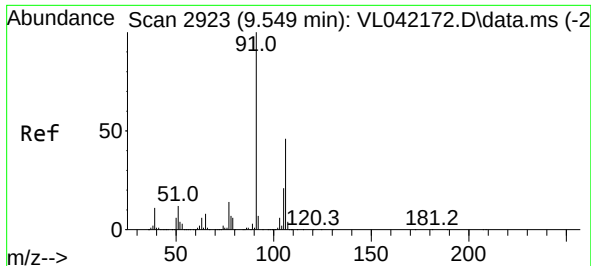


#58  
Ethyl Benzene  
Concen: 10.059 ppbv  
RT: 9.377 min Scan# 2870  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 91 Resp: 815513  
Ion Ratio Lower Upper  
91 100  
106 29.8 24.2 36.2



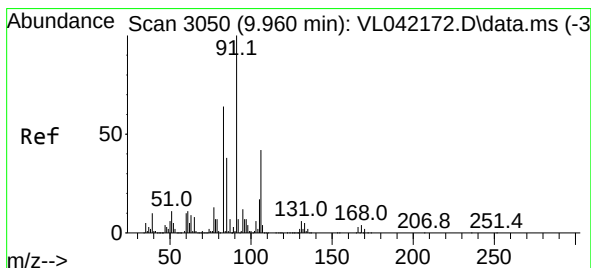
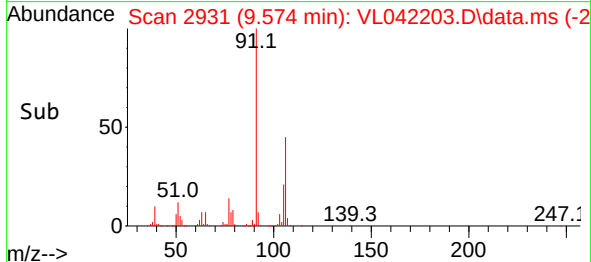
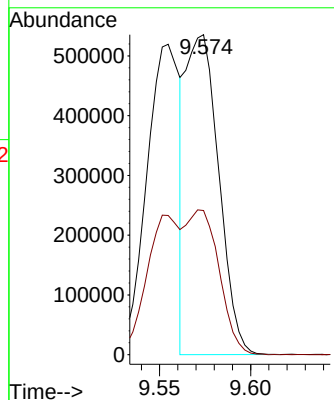
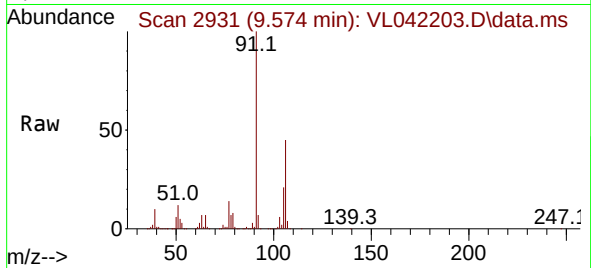




#59  
m/p-Xylene  
Concen: 10.395 ppbv  
RT: 9.574 min Scan# 2923  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

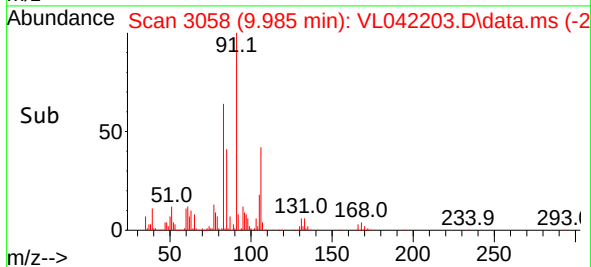
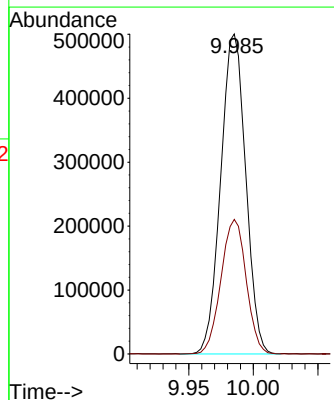
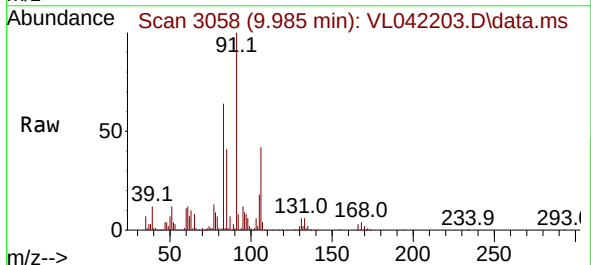
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

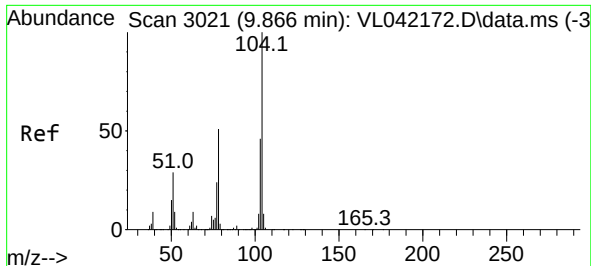
Tgt Ion: 91 Resp: 672913  
Ion Ratio Lower Upper  
91 100  
106 90.0 36.4 54.6#



#60  
o-Xylene  
Concen: 10.379 ppbv  
RT: 9.985 min Scan# 3058  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 91 Resp: 673552  
Ion Ratio Lower Upper  
91 100  
106 42.4 20.8 62.5

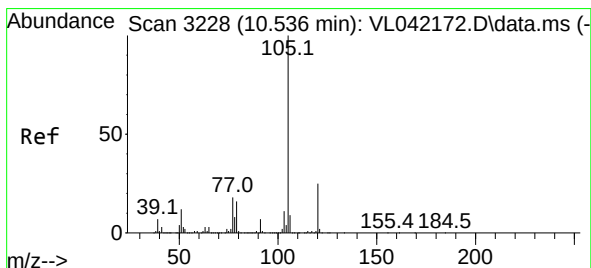
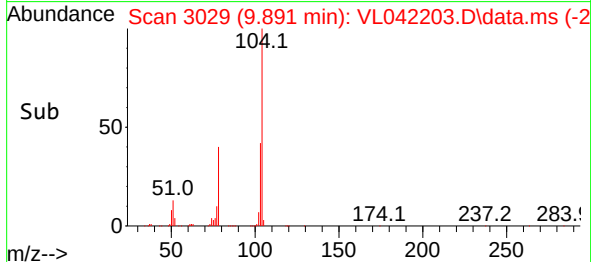
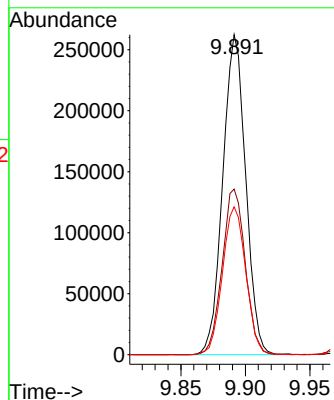
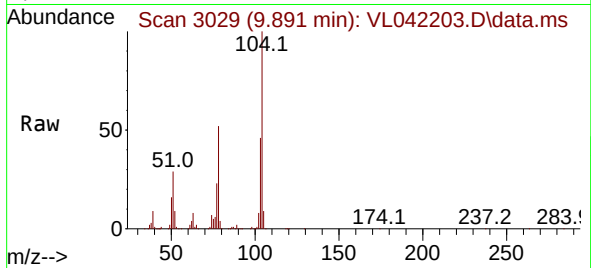




#61  
Styrene  
Concen: 10.060 ppbv  
RT: 9.891 min Scan# 3021  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

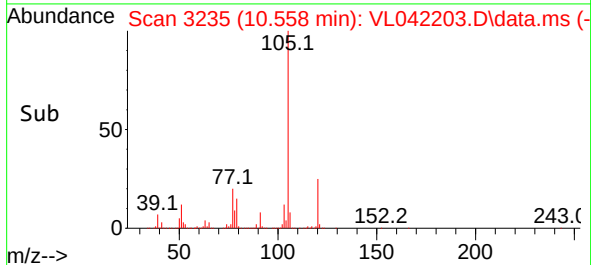
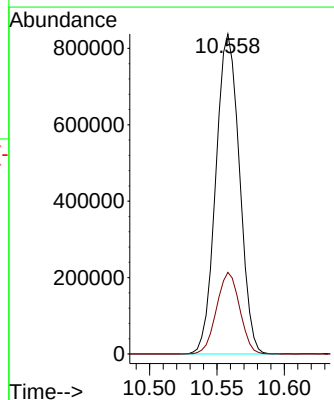
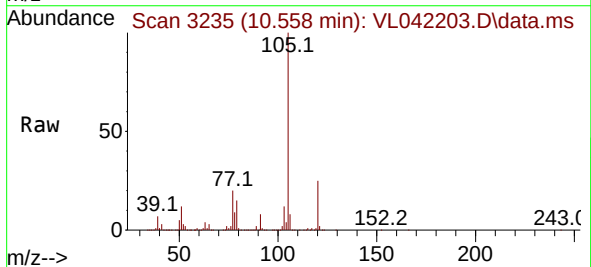
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

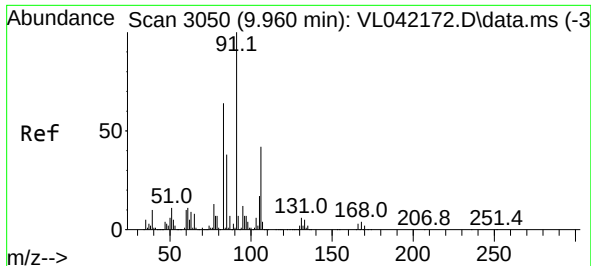
Tgt Ion:104 Resp: 322981  
Ion Ratio Lower Upper  
104 100  
78 52.3 41.8 62.6  
103 47.2 37.0 55.4



#62  
Isopropylbenzene  
Concen: 10.524 ppbv  
RT: 10.558 min Scan# 3235  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion:105 Resp: 1021273  
Ion Ratio Lower Upper  
105 100  
120 25.0 19.9 29.9

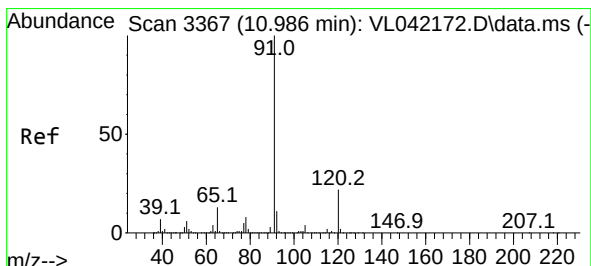
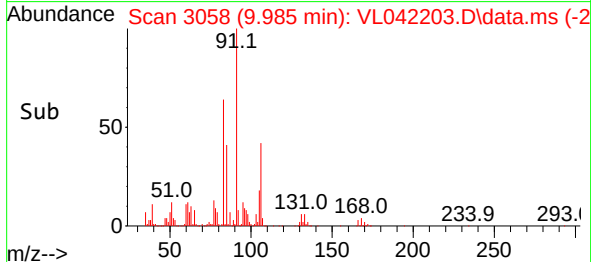
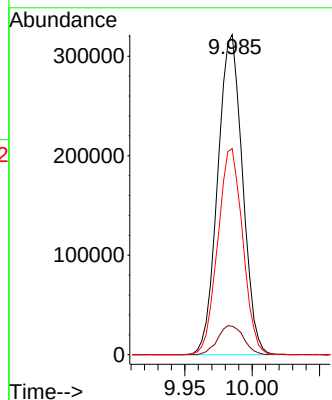
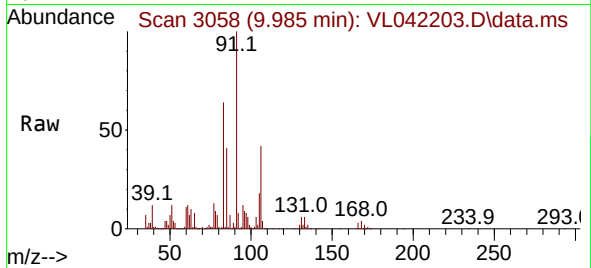




#63  
1,1,2,2-Tetrachloroethane  
Concen: 10.440 ppbv  
RT: 9.985 min Scan# 3058  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

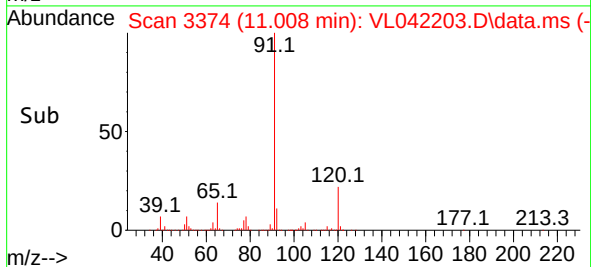
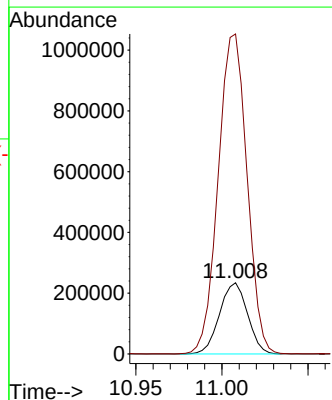
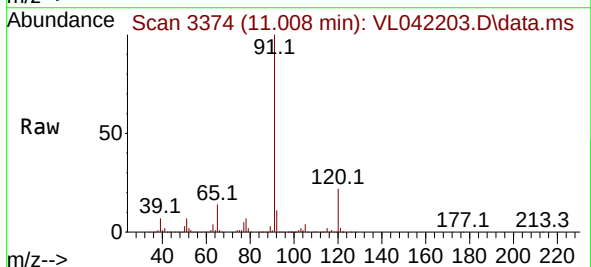
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

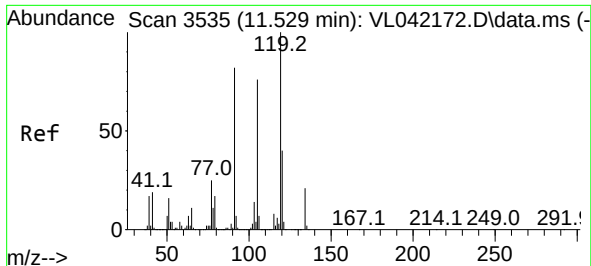
Tgt Ion: 83 Resp: 411620  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.4  
85 64.9 32.5 97.5



#64  
n-propylbenzene  
Concen: 10.596 ppbv  
RT: 11.008 min Scan# 3374  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 120 Resp: 264706  
Ion Ratio Lower Upper  
120 100  
91 463.0 376.9 565.3

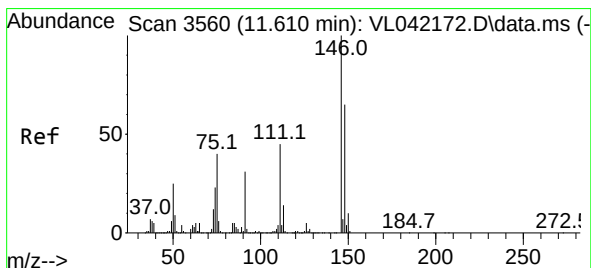
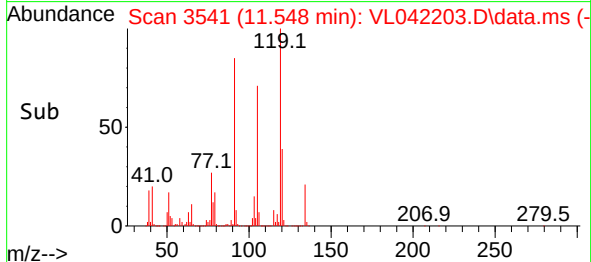
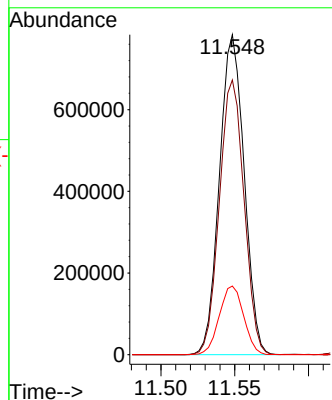
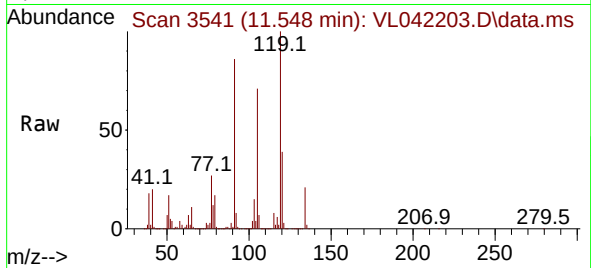




#65  
tert-Butylbenzene  
Concen: 10.173 ppbv  
RT: 11.548 min Scan# 3541  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

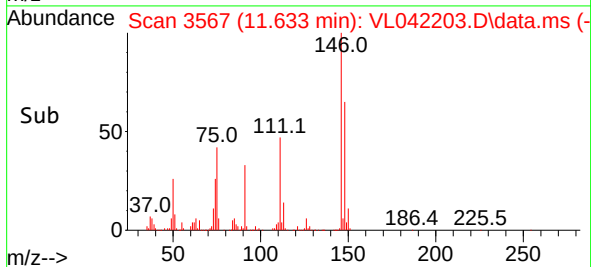
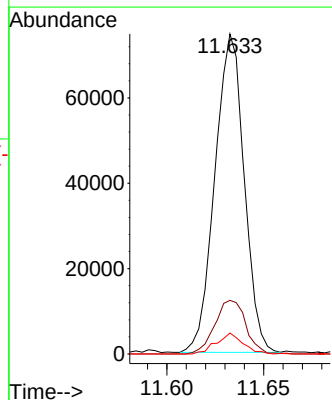
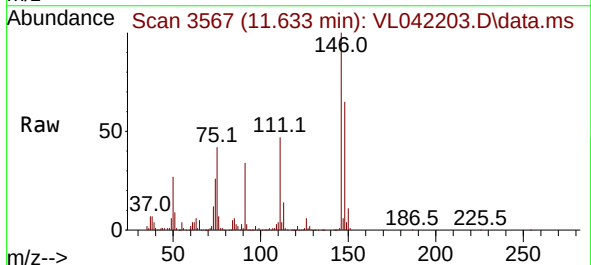
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

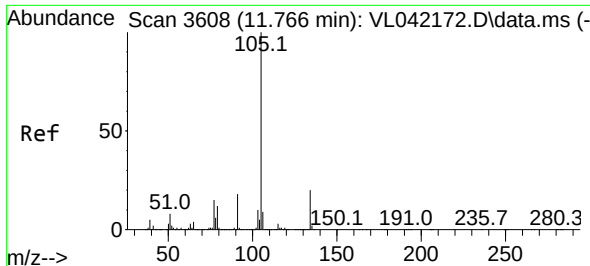
Tgt Ion:119 Resp: 913025  
Ion Ratio Lower Upper  
119 100  
91 85.8 66.0 99.0  
134 21.2 16.7 25.1



#66  
Benzyl Chloride  
Concen: 8.232 ppbv  
RT: 11.633 min Scan# 3567  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 91 Resp: 78394  
Ion Ratio Lower Upper  
91 100  
126 17.8 13.8 20.6  
128 6.0 4.5 6.7

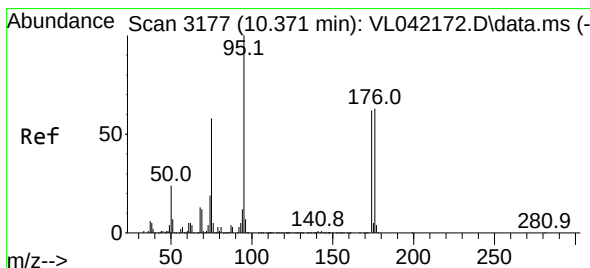
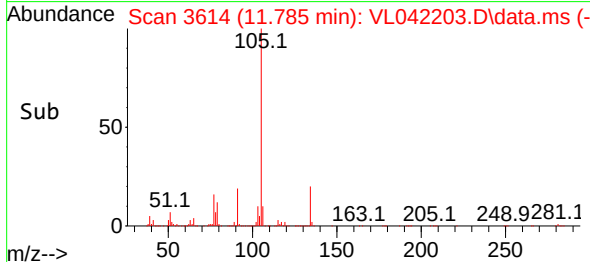
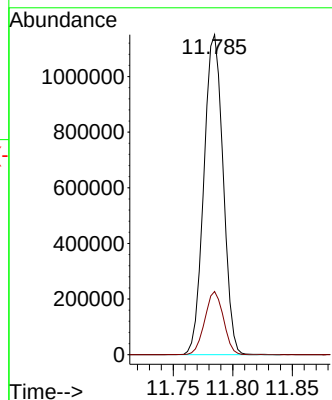
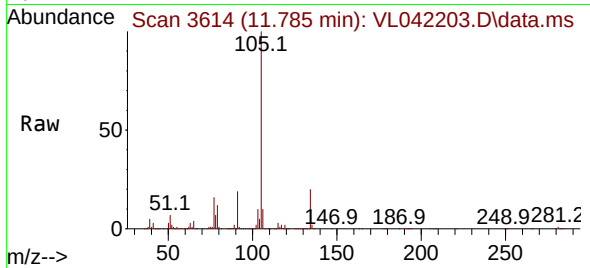




#67  
sec-Butylbenzene  
Concen: 10.360 ppbv  
RT: 11.785 min Scan# 3185  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

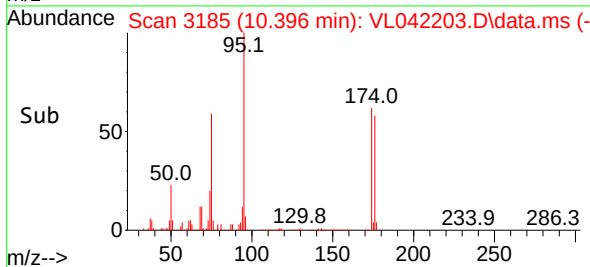
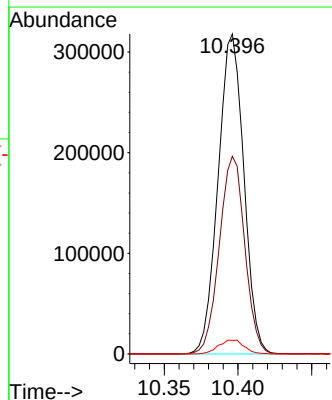
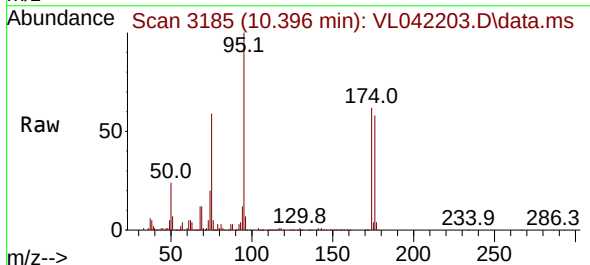
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

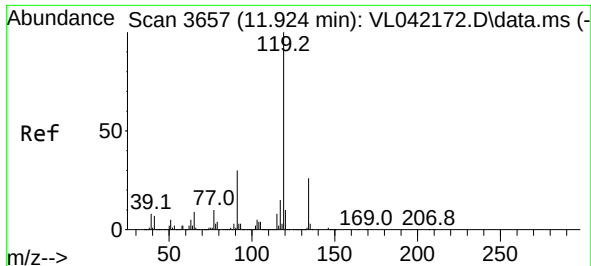
Tgt Ion:105 Resp: 1292454  
Ion Ratio Lower Upper  
105 100  
134 19.3 15.5 23.3



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.281 ppbv  
RT: 10.396 min Scan# 3185  
Delta R.T. 0.026 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 95 Resp: 385330  
Ion Ratio Lower Upper  
95 100  
174 61.2 50.6 76.0  
175 4.4 3.8 5.6

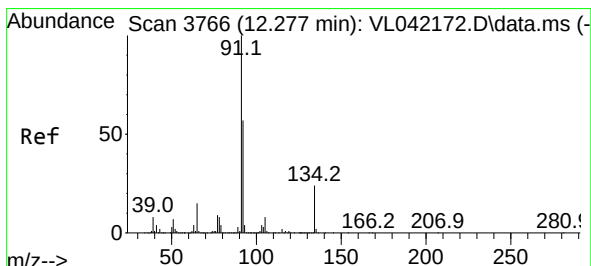
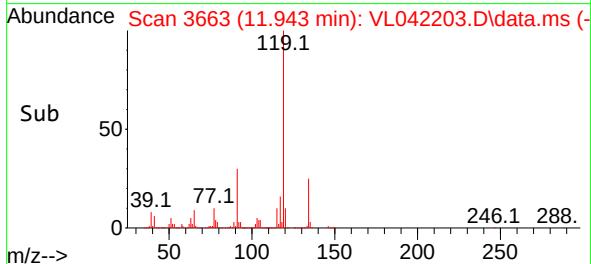
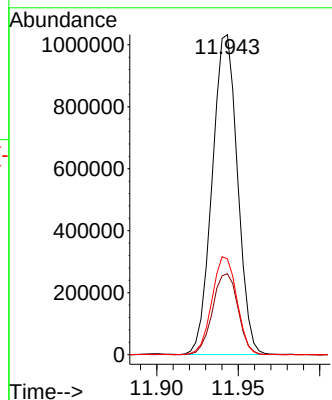
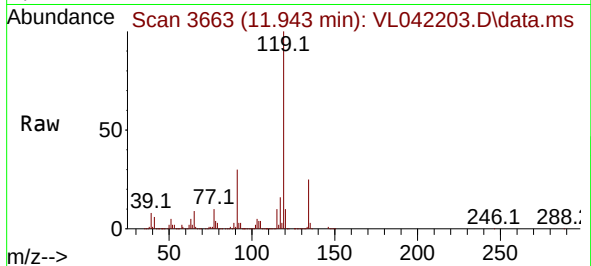




#69  
p-Isopropyltoluene  
Concen: 10.362 ppbv  
RT: 11.943 min Scan# 3663  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

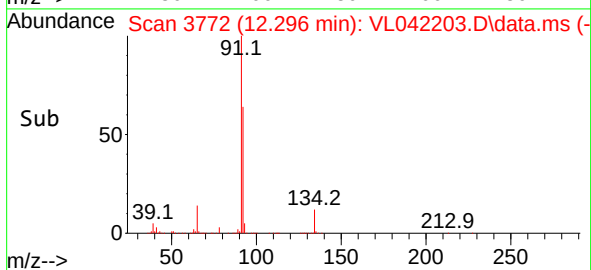
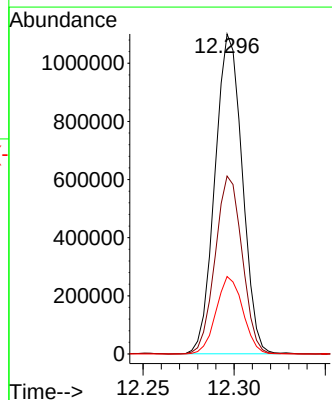
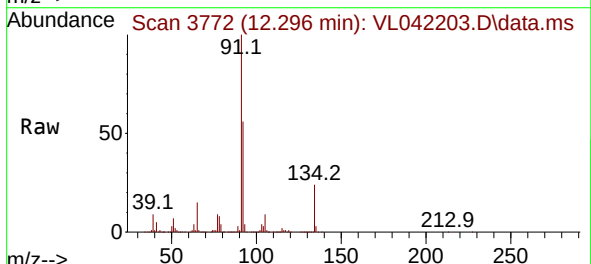
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

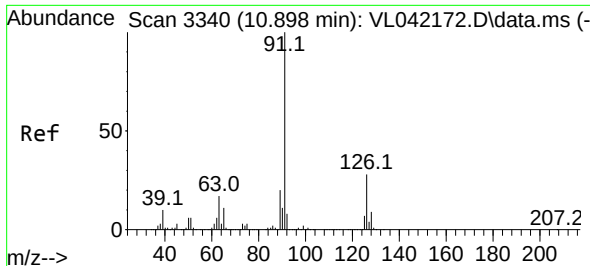
Tgt Ion:119 Resp: 1113087  
Ion Ratio Lower Upper  
119 100  
134 25.6 20.4 30.6  
91 30.4 23.7 35.5



#70  
n-Butylbenzene  
Concen: 10.422 ppbv  
RT: 12.296 min Scan# 3772  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 91 Resp: 1144962  
Ion Ratio Lower Upper  
91 100  
92 55.3 44.9 67.3  
134 23.7 19.2 28.8

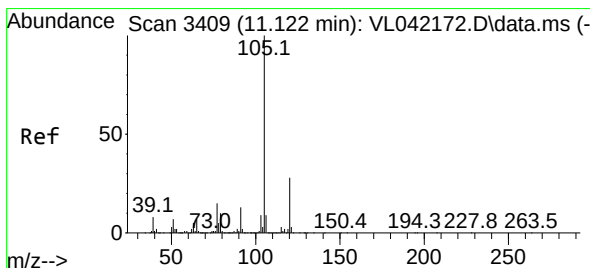
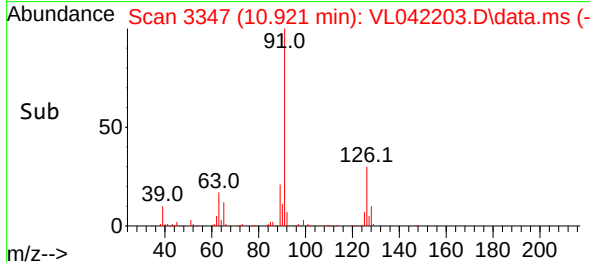
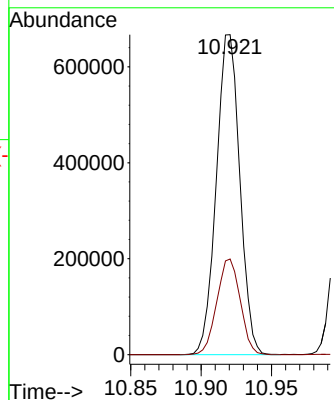
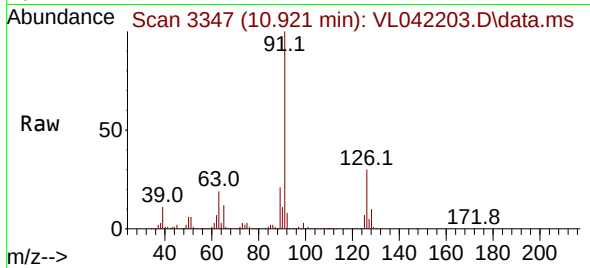




#71  
2-Chlorotoluene  
Concen: 10.295 ppbv  
RT: 10.921 min Scan# 31  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

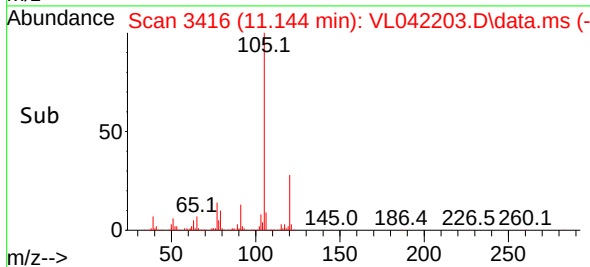
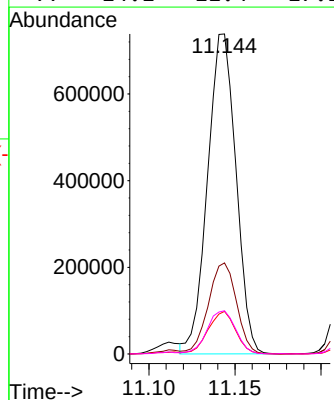
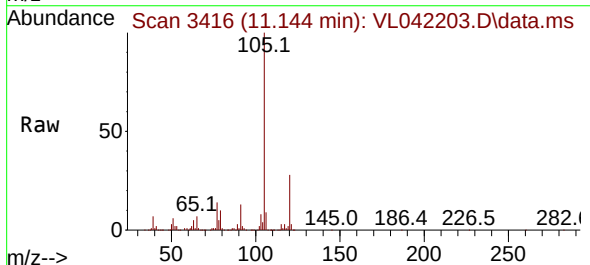
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

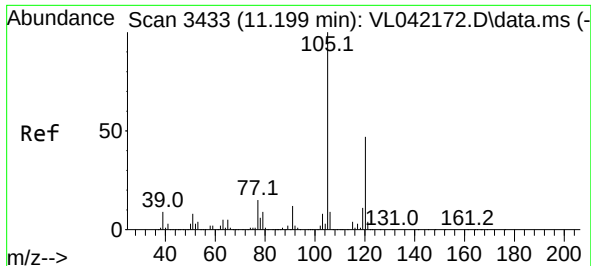
Tgt Ion: 91 Resp: 775424  
Ion Ratio Lower Upper  
91 100  
126 29.7 11.6 46.4



#72  
4-Ethyltoluene  
Concen: 10.500 ppbv  
RT: 11.144 min Scan# 3416  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion: 105 Resp: 848380  
Ion Ratio Lower Upper  
105 100  
120 29.2 23.4 35.0  
91 13.4 10.3 15.5  
77 14.1 11.4 17.2

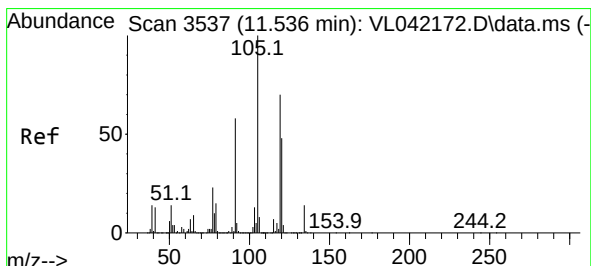
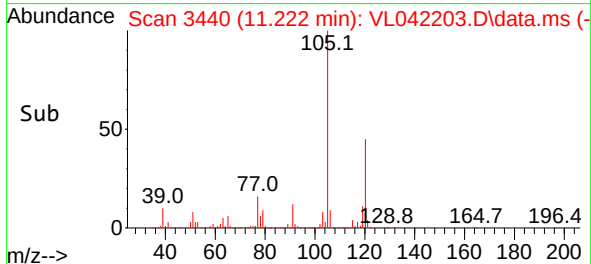
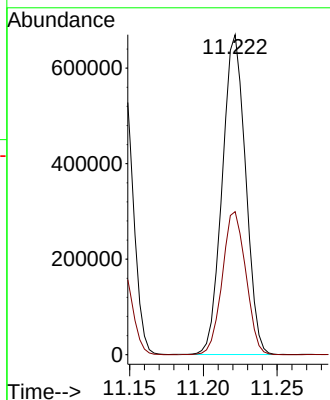
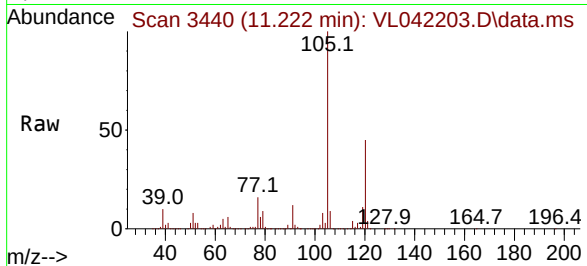




#73  
1,3,5-Trimethylbenzene  
Concen: 10.441 ppbv  
RT: 11.222 min Scan# 3433  
Delta R.T. 0.022 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

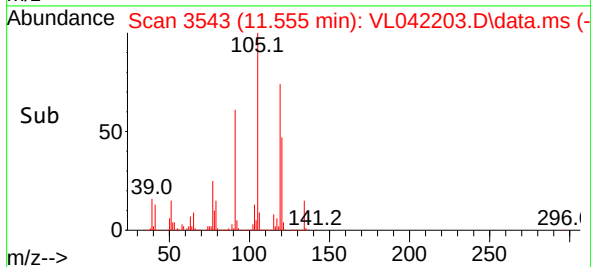
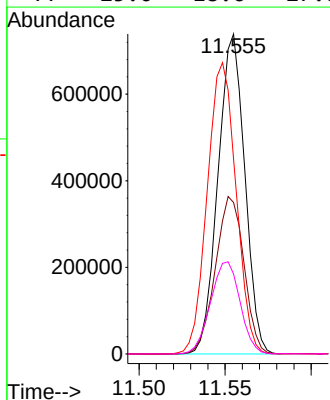
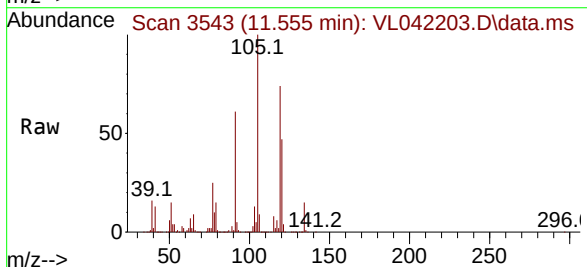
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

Tgt Ion:105 Resp: 736772  
Ion Ratio Lower Upper  
105 100  
120 44.7 37.4 56.0

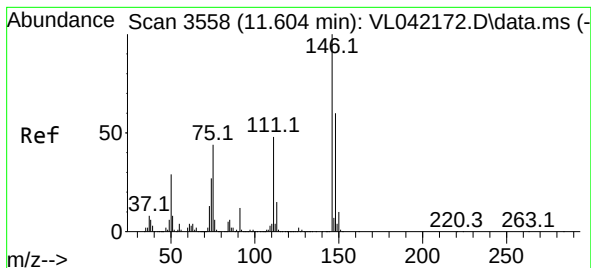


#74  
1,2,4-Trimethylbenzene  
Concen: 9.841 ppbv  
RT: 11.555 min Scan# 3543  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion:105 Resp: 800063  
Ion Ratio Lower Upper  
105 100  
120 47.3 38.6 58.0  
91 60.8 46.2 69.2  
77 25.0 18.6 27.8







#75

1,3-Dichlorobenzene

Concen: 10.548 ppbv

RT: 11.626 min Scan# 3558

Delta R.T. 0.022 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

Instrument :

MSVOA\_1

ClientSampleId :

VL0331ABS01

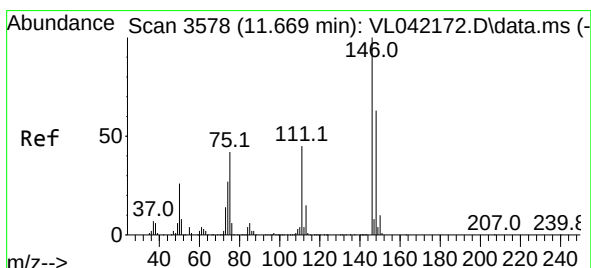
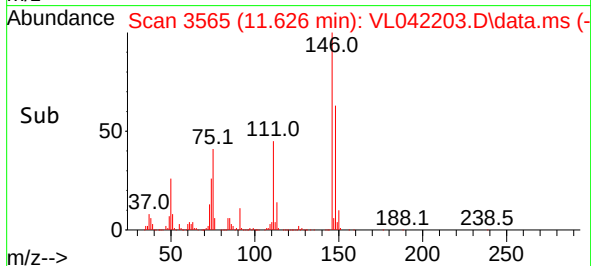
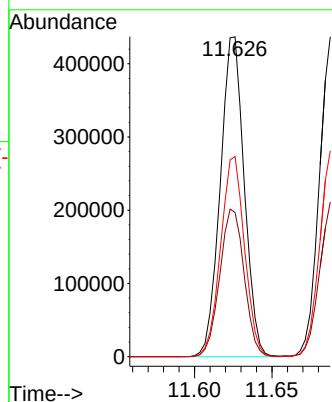
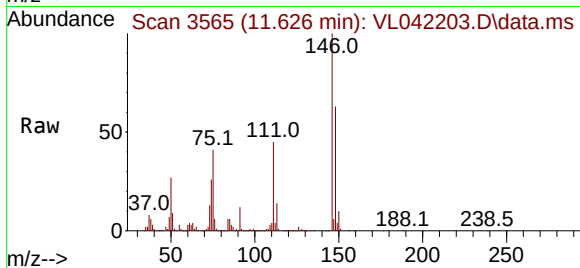
Tgt Ion:146 Resp: 470306

Ion Ratio Lower Upper

146 100

111 46.9 23.8 71.2

148 62.4 31.9 95.9



#76

1,4-Dichlorobenzene

Concen: 10.538 ppbv

RT: 11.688 min Scan# 3584

Delta R.T. 0.019 min

Lab File: VL042203.D

Acq: 31 Mar 2025 10:17

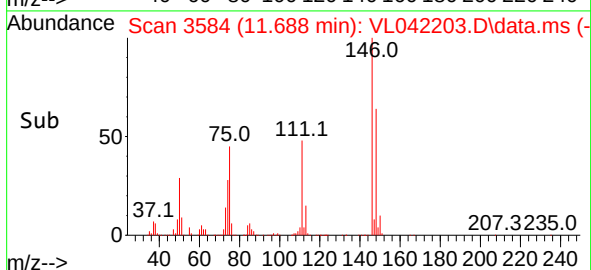
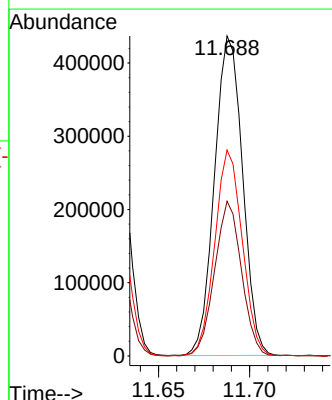
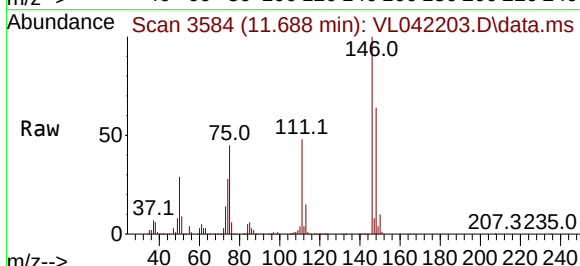
Tgt Ion:146 Resp: 467631

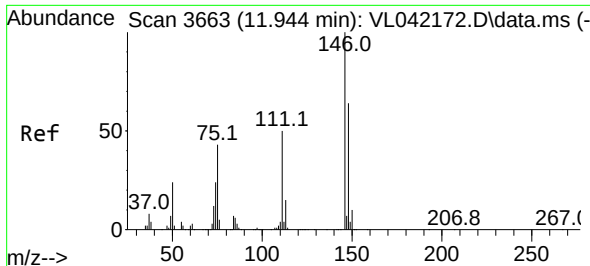
Ion Ratio Lower Upper

146 100

111 46.6 23.0 69.0

148 63.4 31.9 95.7

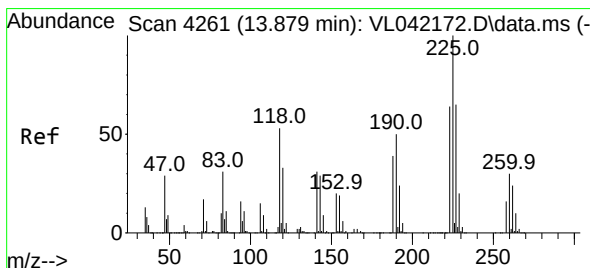
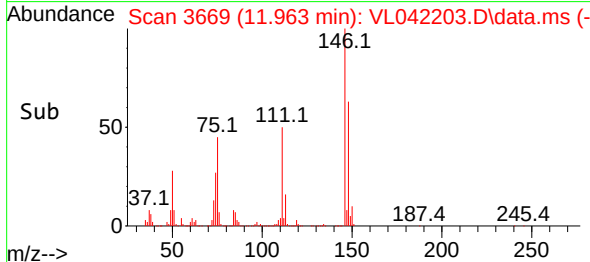
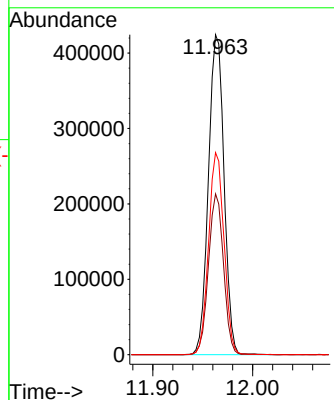
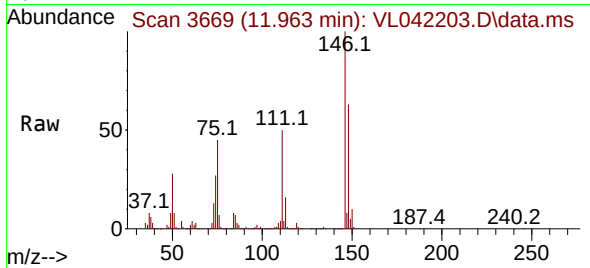




#77  
1,2-Dichlorobenzene  
Concen: 10.617 ppbv  
RT: 11.963 min Scan# 3669  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

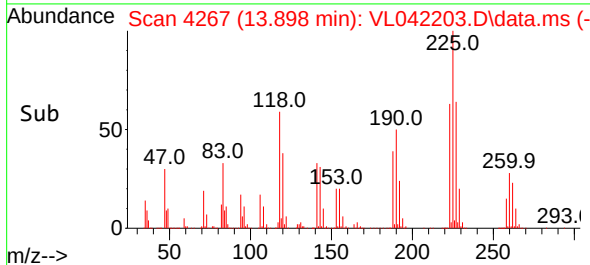
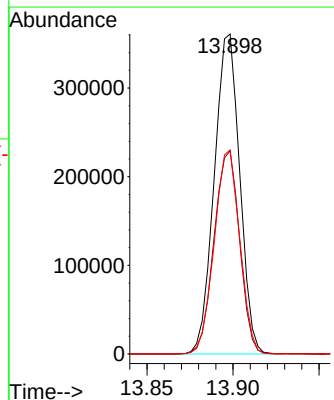
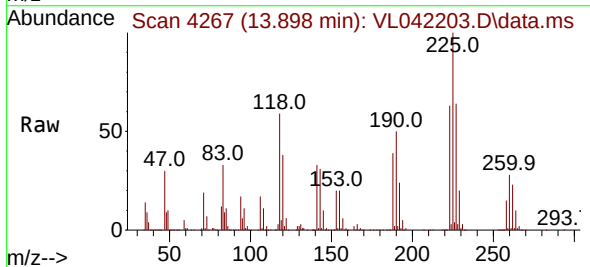
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0331ABS01

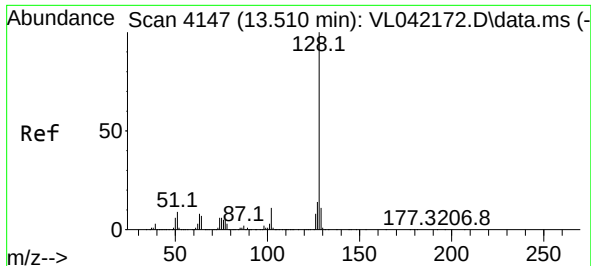
Tgt Ion:146 Resp: 460911  
Ion Ratio Lower Upper  
146 100  
111 48.6 24.8 74.3  
148 62.4 31.6 94.8



#78  
Hexachloro-1,3-Butadiene  
Concen: 8.418 ppbv  
RT: 13.898 min Scan# 4267  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

Tgt Ion:225 Resp: 371995  
Ion Ratio Lower Upper  
225 100  
223 63.6 50.6 76.0  
227 63.7 51.2 76.8

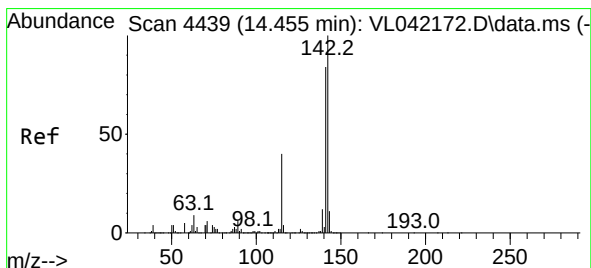
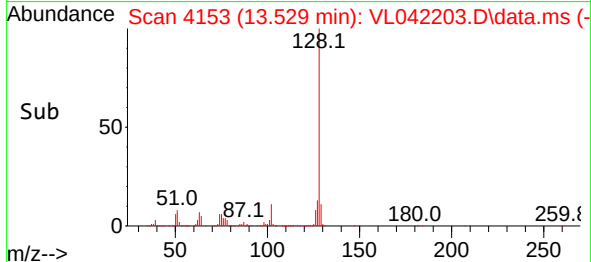
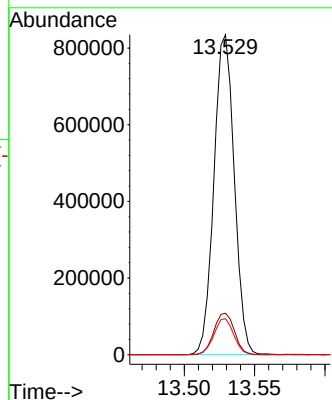
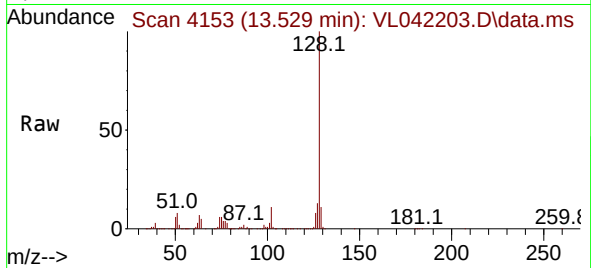




#79  
Naphthalene  
Concen: 9.455 ppbv  
RT: 13.529 min Scan# 4147  
Delta R.T. 0.019 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

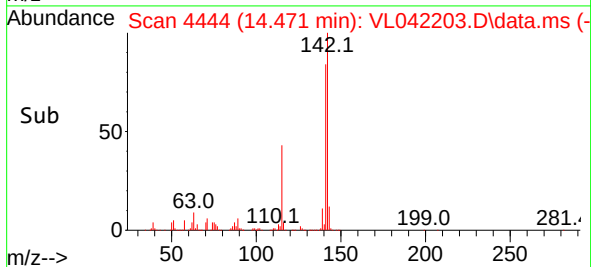
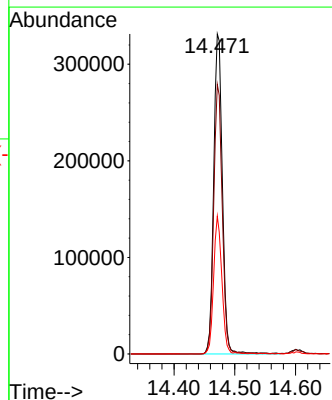
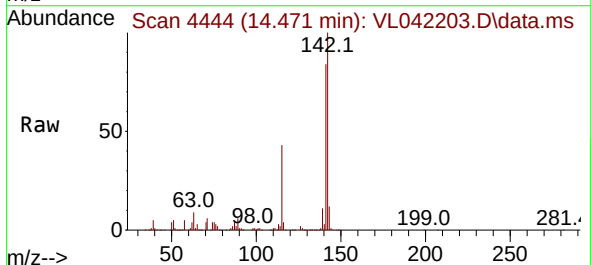
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0331ABS01

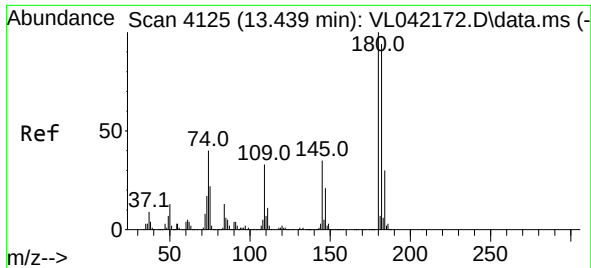
Tgt Ion:128 Resp: 840768  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.8 16.2  
129 11.2 9.0 13.4



#80  
Naphthalene,2-methyl-  
Concen: 7.541 ppbv  
RT: 14.471 min Scan# 4444  
Delta R.T. 0.016 min  
Lab File: VL042203.D  
Acq: 31 Mar 2025 10:17

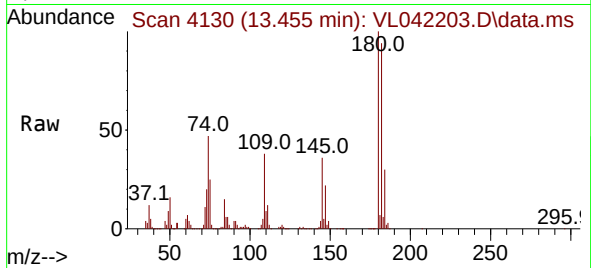
Tgt Ion:142 Resp: 328839  
Ion Ratio Lower Upper  
142 100  
141 83.3 66.3 99.5  
115 41.4 31.6 47.4



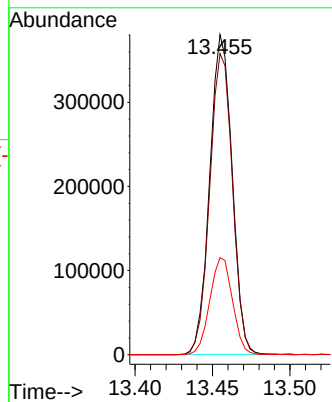
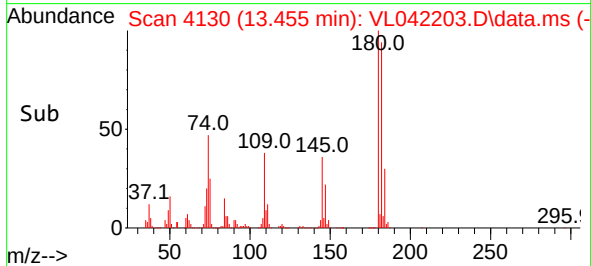


#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.313 ppbv  
 RT: 13.455 min Scan# 41  
 Delta R.T. 0.016 min  
 Lab File: VL042203.D  
 Acq: 31 Mar 2025 10:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0331ABS01



Tgt Ion:180 Resp: 381981  
 Ion Ratio Lower Upper  
 180 100  
 182 95.6 75.1 112.7  
 184 30.8 24.4 36.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
 Data File : VL042204.D  
 Acq On : 31 Mar 2025 11:06  
 Operator : SY/MD  
 Sample : Q1669-06  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-DUP-1-3262025

Quant Time: Apr 01 01:36:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 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         | 2.806  | 49    | 184538   | 10.000   | ppbv       | 0.02     |
| 33) 1,4-Difluorobenzene       | 3.984  | 114   | 528809   | 10.000   | ppbv       | 0.03     |
| 55) Chlorobenzene-d5          | 8.907  | 117   | 477707   | 10.000   | ppbv       | 0.03     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.399 | 95    | 395364   | 10.078   | ppbv       | 0.03     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | = 100.800% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.505  | 85    | 12624    | 0.463    | ppbv       | 99       |
| 3) Chlorodifluoromethane      | 1.483  | 51    | 8664     | 0.311    | ppbv       | 99       |
| 4) Chloromethane              | 1.538  | 50    | 4783     | 0.430    | ppbv #     | 87       |
| 9) Propene                    | 1.489  | 41    | 219989   | 17.243   | ppbv       | 96       |
| 10) Heptane                   | 5.017  | 43    | 54482    | 1.605    | ppbv       | 97       |
| 11) Trichlorofluoromethane    | 1.890  | 101   | 5277     | 0.199    | ppbv       | 85       |
| 12) 1,1,2-Trichlorotrifluo... | 2.149  | 101   | 1240     | 0.057    | ppbv       | 94       |
| 13) Ethanol                   | 1.732  | 45    | 129111   | 107.052  | ppbv       | 83       |
| 15) Acetone                   | 1.845  | 43    | 721044   | 27.938   | ppbv #     | 85       |
| 16) 1,3-Butadiene             | 1.628  | 39    | 49448    | 3.923    | ppbv       | 83       |
| 17) tert-Butyl alcohol        | 2.059  | 59    | 5884     | 0.183    | ppbv #     | 71       |
| 19) Isopropyl Alcohol         | 1.900  | 45    | 20570    | 1.413    | ppbv #     | 1        |
| 20) Methylene Chloride        | 2.075  | 84    | 4857     | 0.505    | ppbv #     | 91       |
| 21) Allyl Chloride            | 2.091  | 41    | 10903    | 0.599    | ppbv #     | 1        |
| 23) Vinyl Acetate             | 2.489  | 43    | 197581   | 17.688   | ppbv #     | 45       |
| 25) Ethyl Acetate             | 2.845  | 43    | 80261    | 1.198    | ppbv #     | 79       |
| 26) Hexane                    | 2.845  | 57    | 114579   | 4.428    | ppbv #     | 34       |
| 30) Cyclohexane               | 3.887  | 84    | 33602    | 1.496    | ppbv       | 93       |
| 34) 2-Butanone                | 2.577  | 43    | 238611   | 6.223    | ppbv       | 98       |
| 35) Carbon Tetrachloride      | 3.793  | 117   | 2894     | 0.070    | ppbv #     | 45       |
| 36) Benzene                   | 3.683  | 78    | 295232   | 5.632    | ppbv       | 98       |
| 39) 1,2-Dichloropropane       | 3.988  | 63    | 136761   | 7.163    | ppbv #     | 22       |
| 41) Tetrahydrofuran           | 3.081  | 42    | 44873    | 2.032    | ppbv       | 99       |
| 42) Bromodichloromethane      | 4.538  | 83    | 1622     | 0.039    | ppbv #     | 25       |
| 44) 2,2,4-Trimethylpentane    | 4.677  | 57    | 203749   | 2.300    | ppbv #     | 86       |
| 50) 4-Methyl-2-Pentanone      | 5.810  | 43    | 11036    | 0.182    | ppbv #     | 22       |
| 51) 2-Hexanone                | 7.487  | 43    | 2034     | 0.041    | ppbv #     | 100      |
| 53) Toluene                   | 6.969  | 91    | 601582   | 9.680    | ppbv       | 99       |
| 58) Ethyl Benzene             | 9.380  | 91    | 112145   | 1.322    | ppbv       | 97       |
| 59) m/p-Xylene                | 9.555  | 91    | 343493   | 5.070    | ppbv       | 99       |
| 60) o-Xylene                  | 9.988  | 91    | 127965   | 1.884    | ppbv       | 100      |
| 61) Styrene                   | 9.895  | 104   | 46841    | 1.394    | ppbv       | 98       |
| 62) Isopropylbenzene          | 10.565 | 105   | 8374     | 0.082    | ppbv       | 96       |
| 64) n-propylbenzene           | 11.011 | 120   | 6017     | 0.230    | ppbv       | 89       |
| 65) tert-Butylbenzene         | 11.905 | 119   | 6664     | 0.071    | ppbv       | 94       |
| 66) Benzyl Chloride           | 11.636 | 91    | 366      | 0.037    | ppbv #     | 66       |
| 67) sec-Butylbenzene          | 11.785 | 105   | 4619     | 0.035    | ppbv #     | 90       |
| 72) 4-Ethyltoluene            | 11.144 | 105   | 37267    | 0.441    | ppbv #     | 55       |
| 73) 1,3,5-Trimethylbenzene    | 11.222 | 105   | 31497    | 0.426    | ppbv       | 93       |
| 74) 1,2,4-Trimethylbenzene    | 11.555 | 105   | 117257   | 1.378    | ppbv #     | 63       |
| 79) Naphthalene               | 13.529 | 128   | 40082    | 0.431    | ppbv       | 96       |
| 80) Naphthalene,2-methyl-     | 14.474 | 142   | 14485    | 0.317    | ppbv #     | 85       |

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Data File : VL042204.D  
Acq On : 31 Mar 2025 11:06  
Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

Quant Time: Apr 01 01:36:52 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration

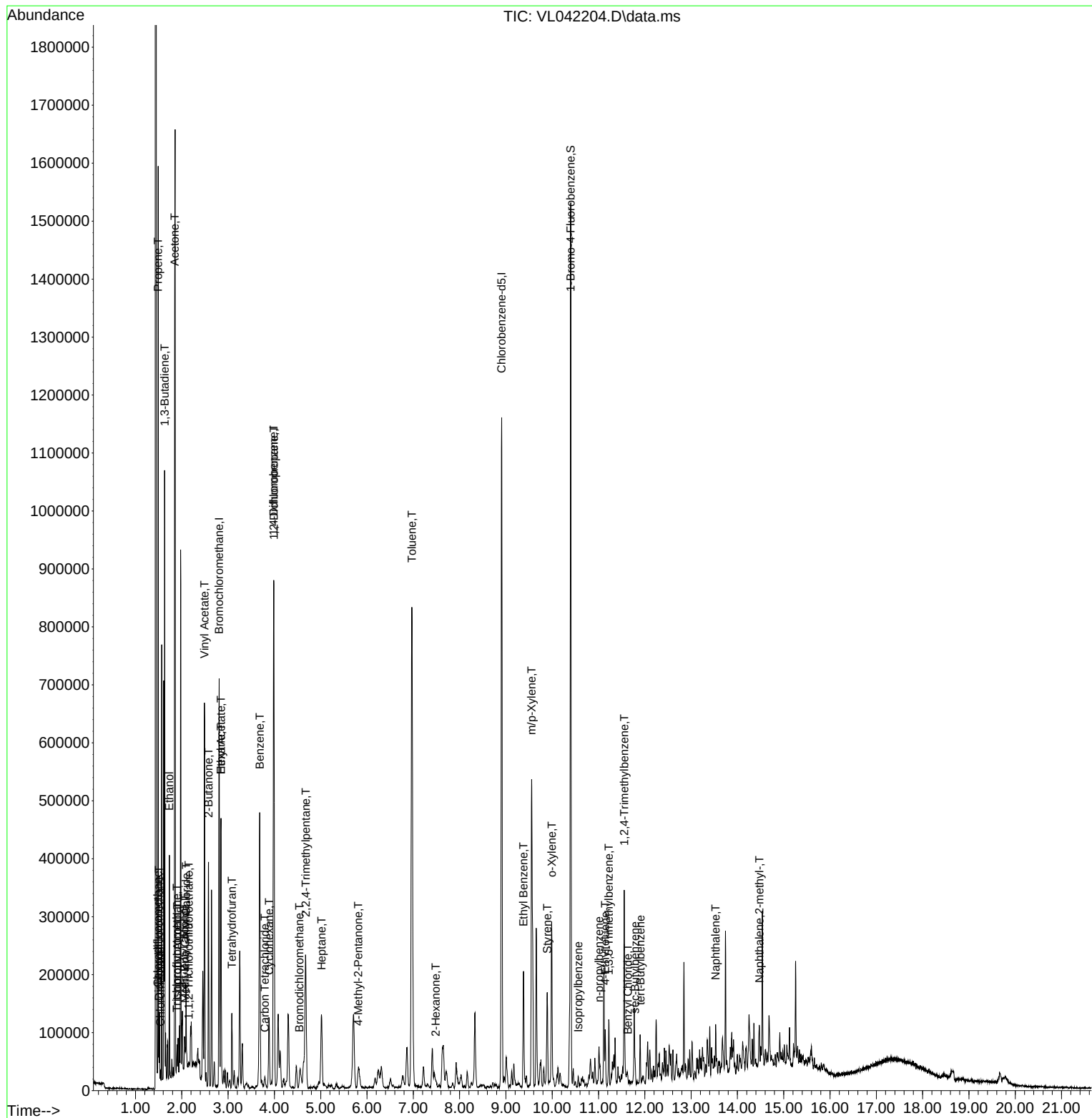
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|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

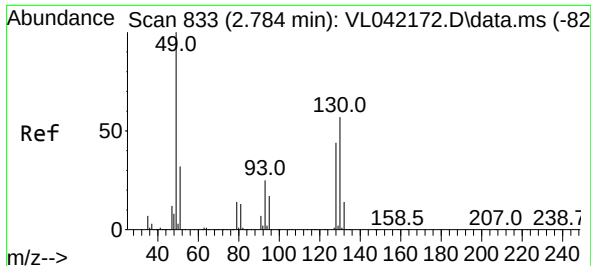
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Operator : SY/MD  
Sample : Q1669-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

Quant Time: Apr 01 01:36:52 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration

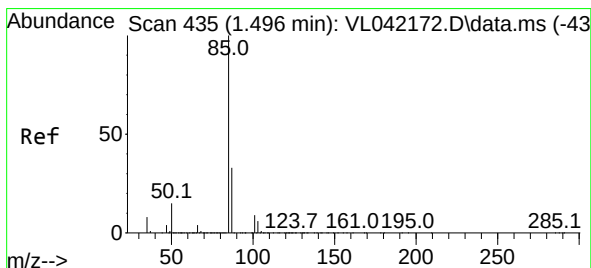
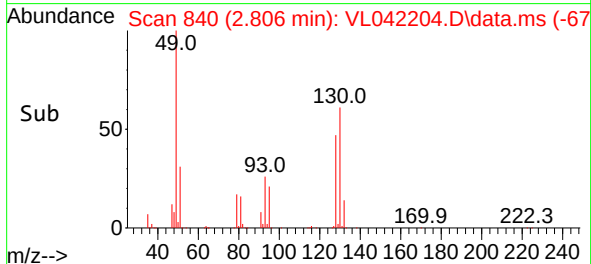
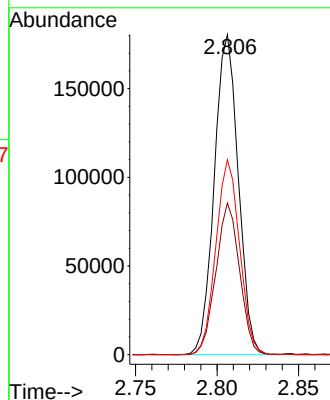
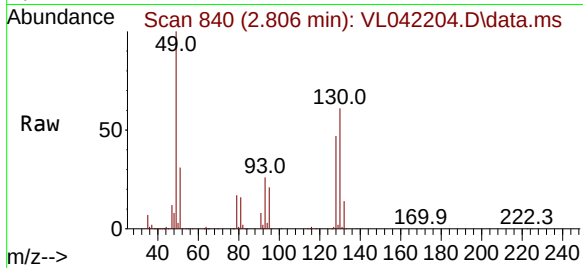




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.806 min Scan# 84  
Delta R.T. 0.022 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

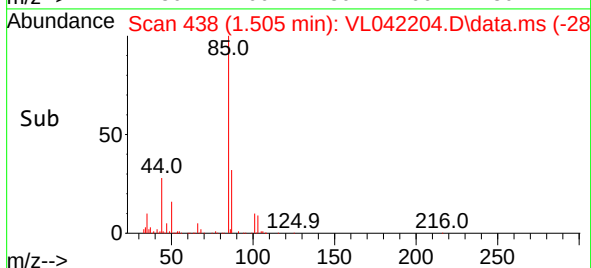
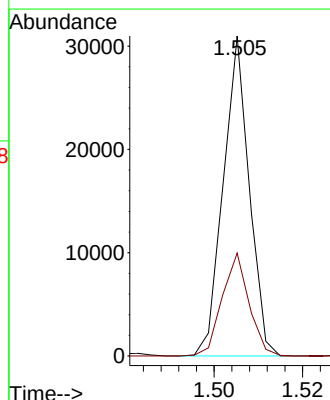
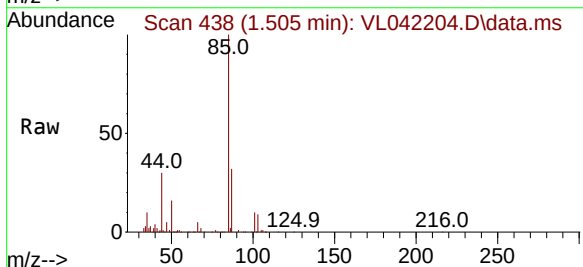
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025

Tgt Ion: 49 Resp: 184538  
Ion Ratio Lower Upper  
49 100  
128 46.8 22.9 68.5  
130 60.3 28.8 86.4

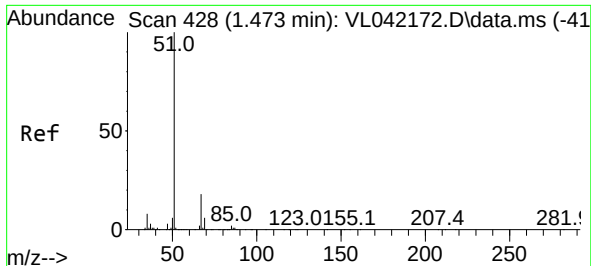


#2  
Dichlorodifluoromethane  
Concen: 0.463 ppbv  
RT: 1.505 min Scan# 438  
Delta R.T. 0.009 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 85 Resp: 12624  
Ion Ratio Lower Upper  
85 100  
87 32.1 26.1 39.1



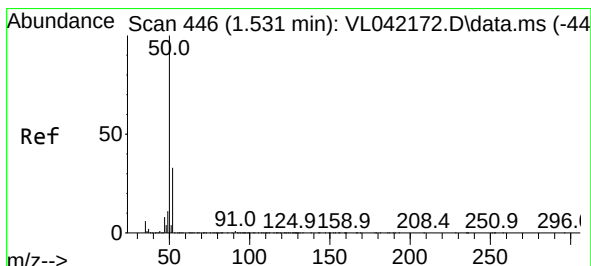
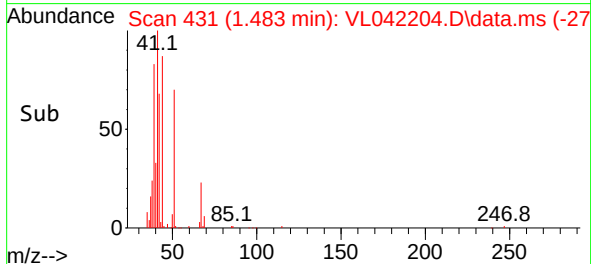
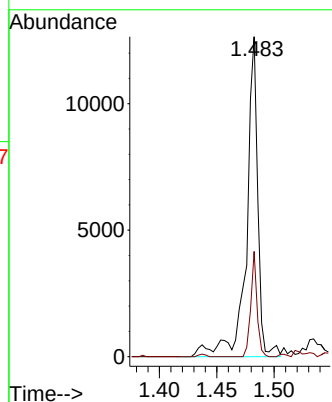
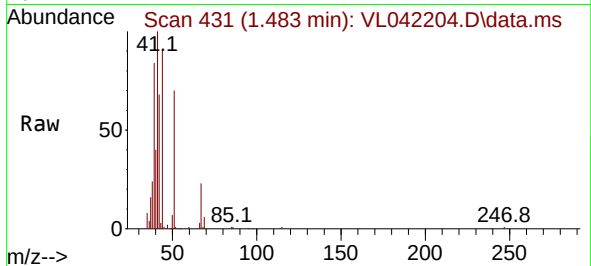




#3  
Chlorodifluoromethane  
Concen: 0.311 ppbv  
RT: 1.483 min Scan# 41  
Delta R.T. 0.009 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

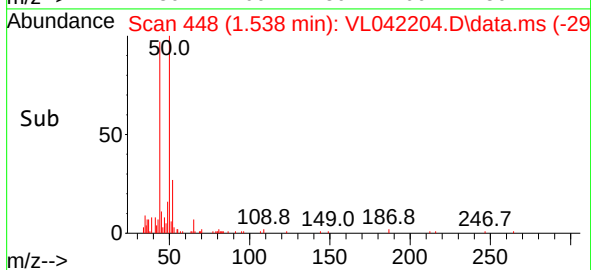
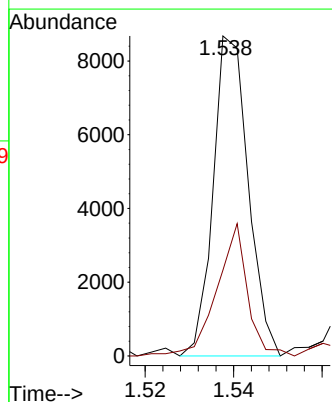
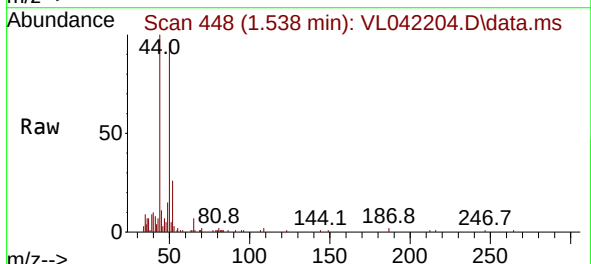
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025

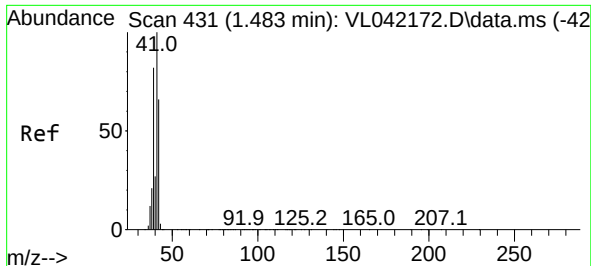
Tgt Ion: 51 Resp: 8664  
Ion Ratio Lower Upper  
51 100  
67 18.5 15.0 22.6



#4  
Chloromethane  
Concen: 0.430 ppbv  
RT: 1.538 min Scan# 448  
Delta R.T. 0.006 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 50 Resp: 4783  
Ion Ratio Lower Upper  
50 100  
52 25.3 26.1 39.1#

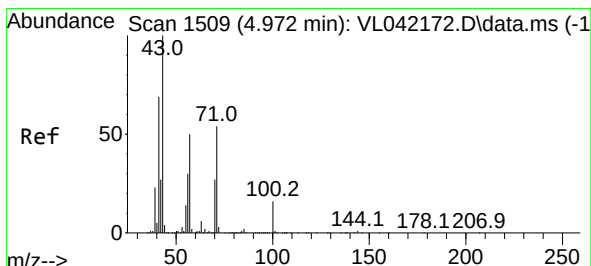
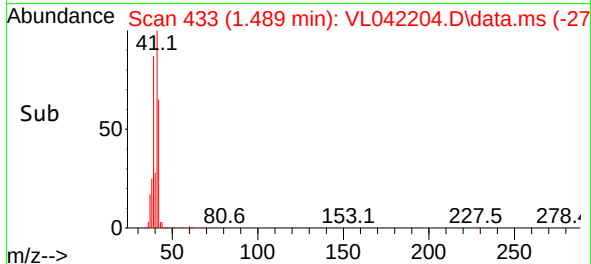
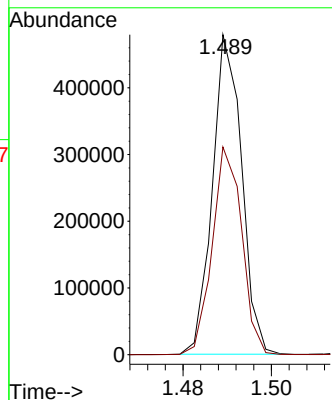
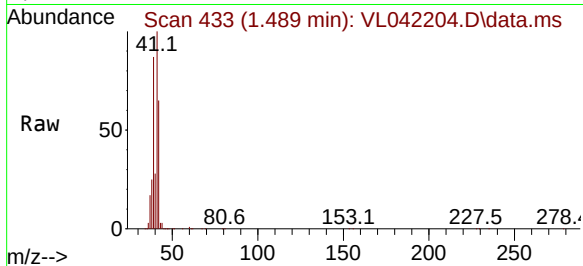




#9  
Propene  
Concen: 17.243 ppbv  
RT: 1.489 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

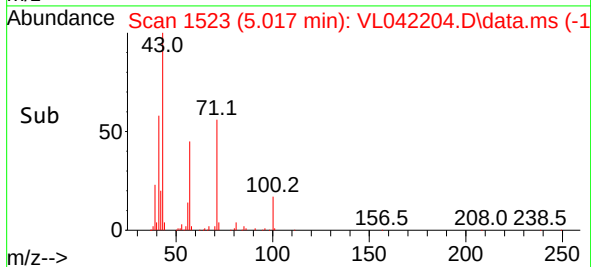
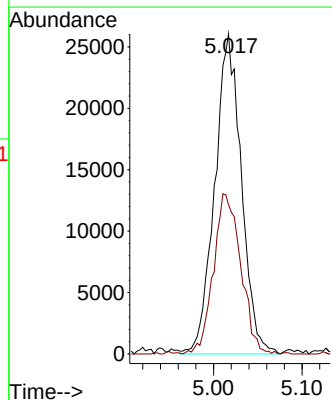
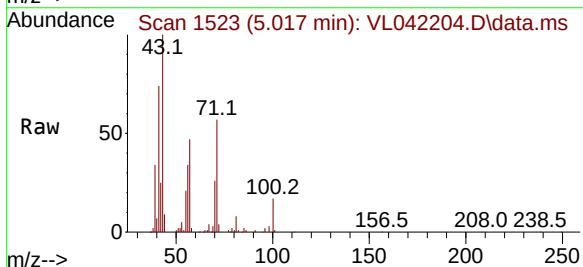
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025

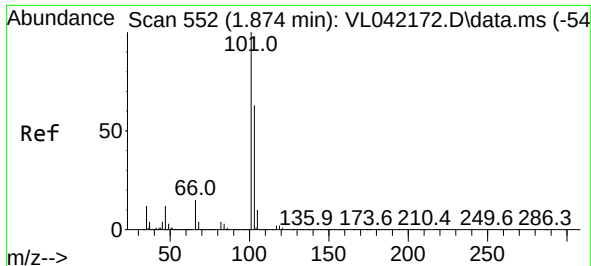
Tgt Ion: 41 Resp: 219989  
Ion Ratio Lower Upper  
41 100  
42 66.0 55.4 83.2



#10  
Heptane  
Concen: 1.605 ppbv  
RT: 5.017 min Scan# 1523  
Delta R.T. 0.045 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 43 Resp: 54482  
Ion Ratio Lower Upper  
43 100  
57 51.4 39.4 59.2

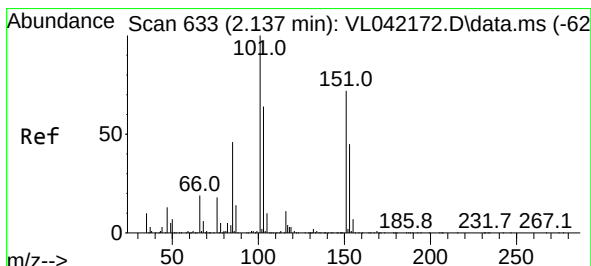
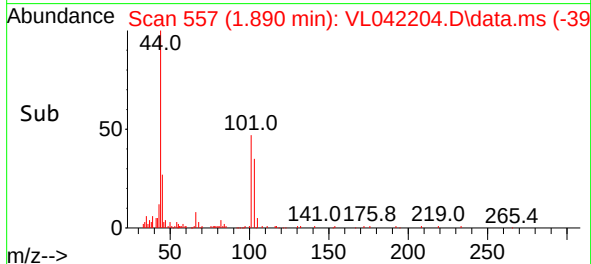
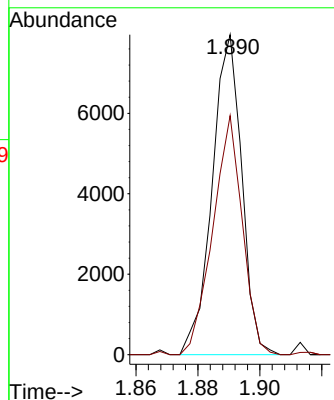
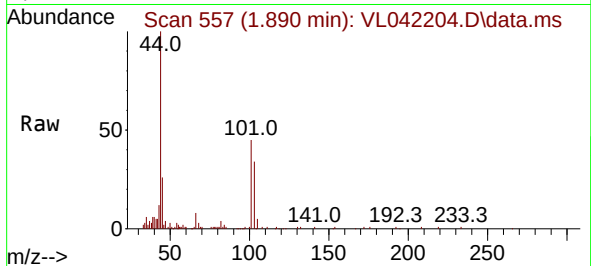




#11  
Trichlorofluoromethane  
Concen: 0.199 ppbv  
RT: 1.890 min Scan# 51  
Delta R.T. 0.016 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

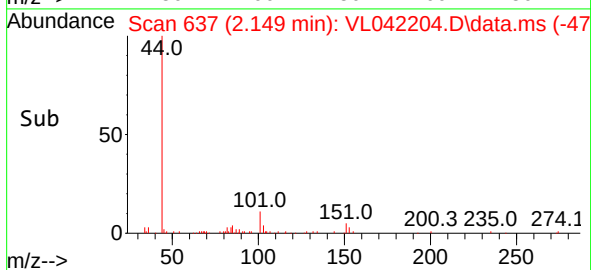
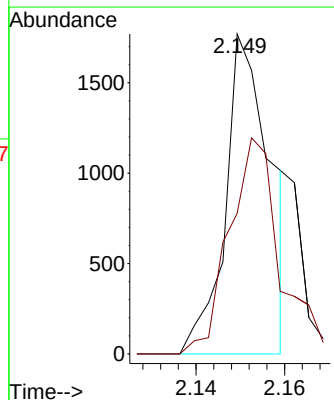
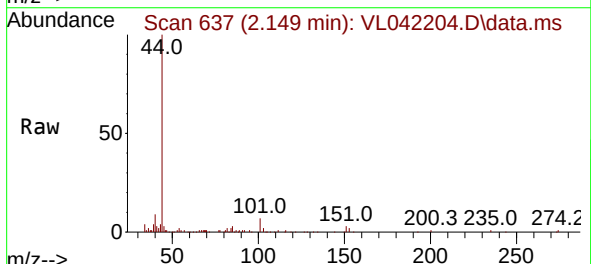
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

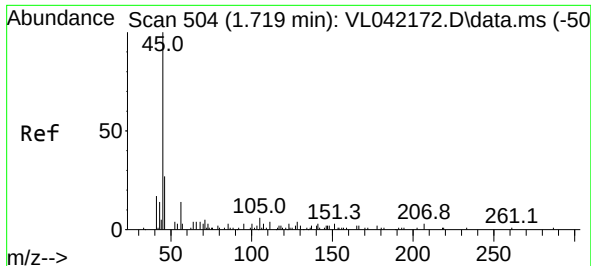
Tgt Ion:101 Resp: 5277  
Ion Ratio Lower Upper  
101 100  
103 74.7 50.2 75.2



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.057 ppbv  
RT: 2.149 min Scan# 637  
Delta R.T. 0.013 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion:101 Resp: 1240  
Ion Ratio Lower Upper  
101 100  
151 76.1 57.1 85.7

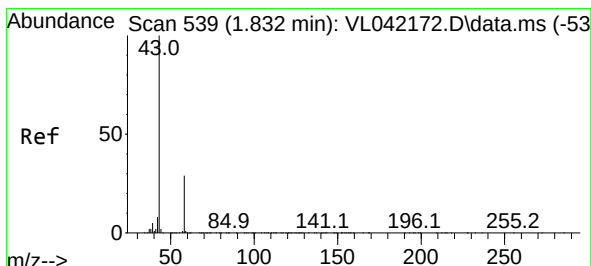
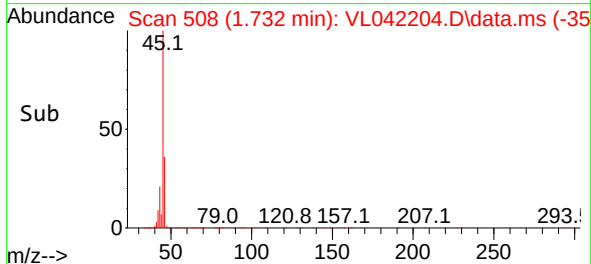
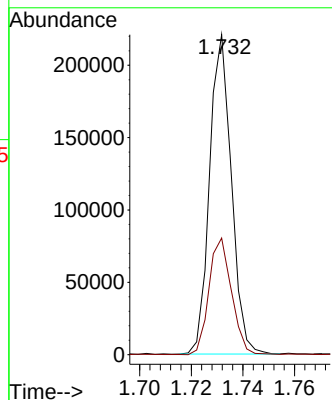
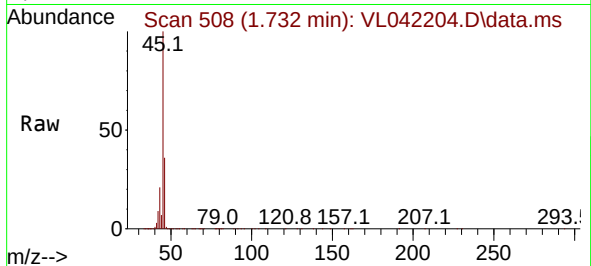




#13  
Ethanol  
Concen: 107.052 ppbv  
RT: 1.732 min Scan# 504  
Delta R.T. 0.013 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

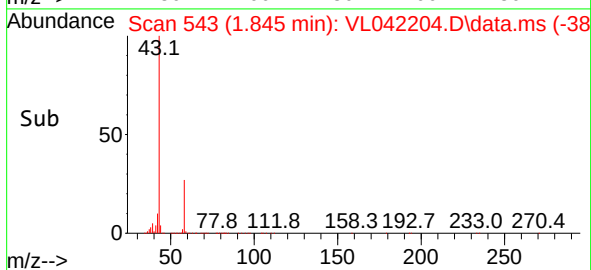
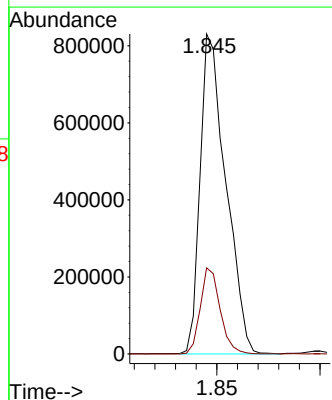
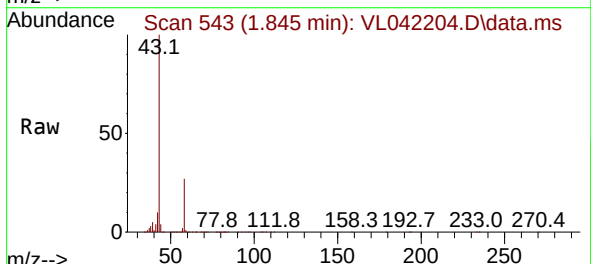
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025

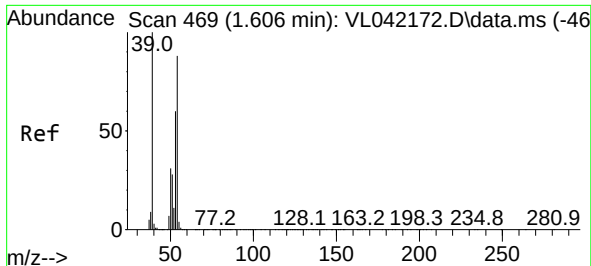
Tgt Ion: 45 Resp: 129111  
Ion Ratio Lower Upper  
45 100  
46 38.6 20.2 80.8



#15  
Acetone  
Concen: 27.938 ppbv  
RT: 1.845 min Scan# 543  
Delta R.T. 0.013 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 43 Resp: 721044  
Ion Ratio Lower Upper  
43 100  
58 20.8 23.2 34.8#

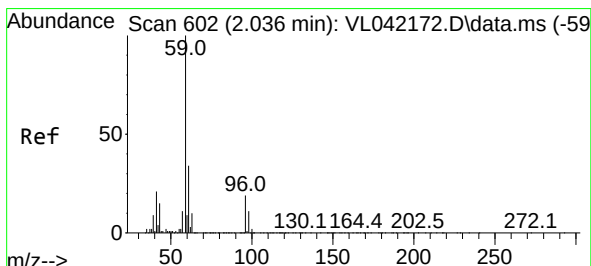
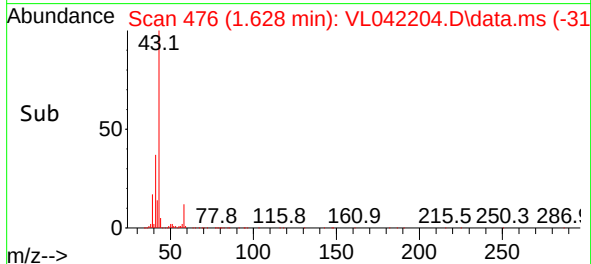
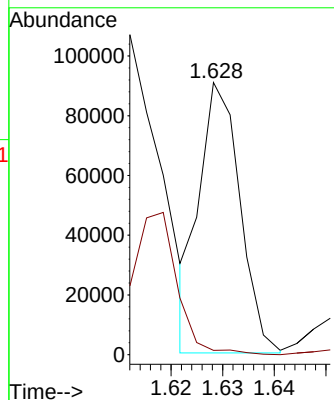
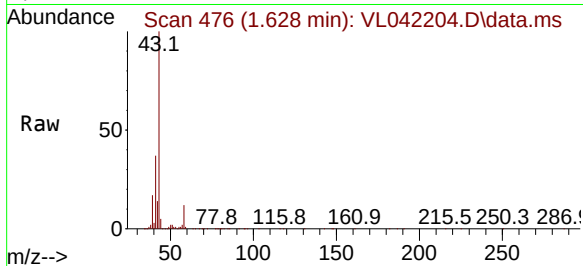




#16  
1,3-Butadiene  
Concen: 3.923 ppbv  
RT: 1.628 min Scan# 41  
Delta R.T. 0.022 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

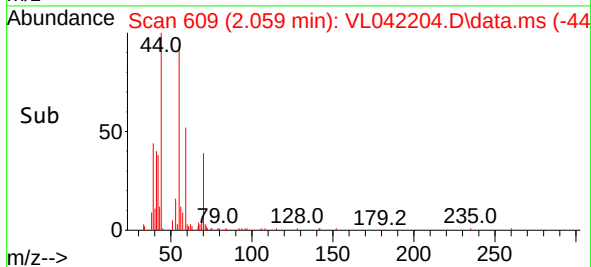
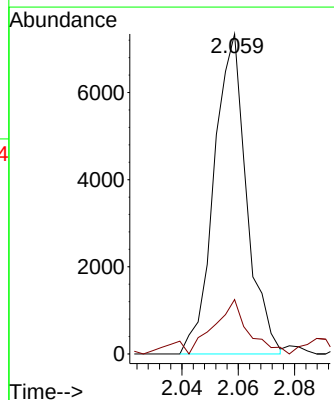
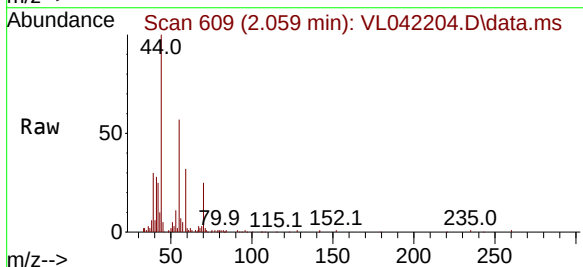
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

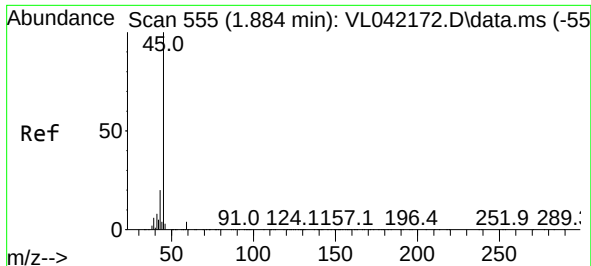
Tgt Ion: 39 Resp: 49448  
Ion Ratio Lower Upper  
39 100  
54 61.6 60.7 91.1



#17  
tert-Butyl alcohol  
Concen: 0.183 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. 0.022 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 59 Resp: 5884  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.9 13.3#

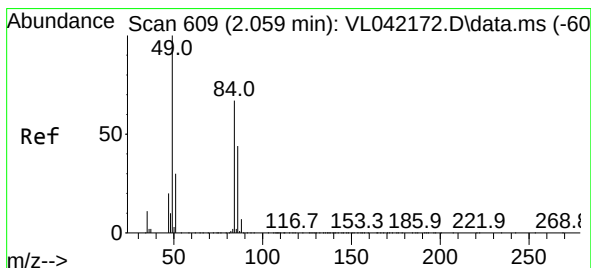
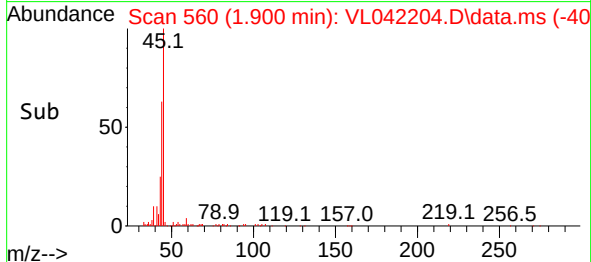
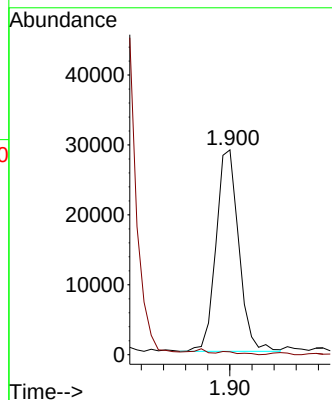
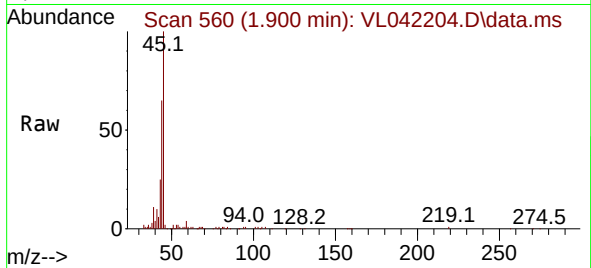




#19  
Isopropyl Alcohol  
Concen: 1.413 ppbv  
RT: 1.900 min Scan# 511  
Delta R.T. 0.016 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

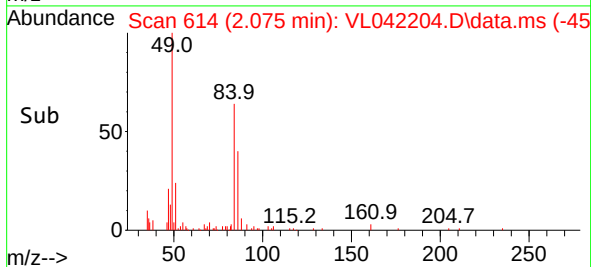
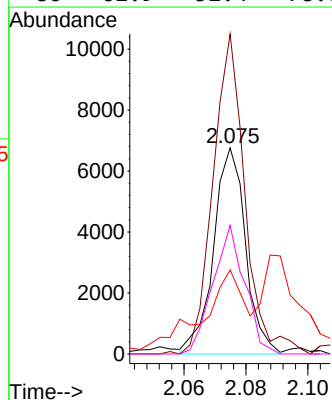
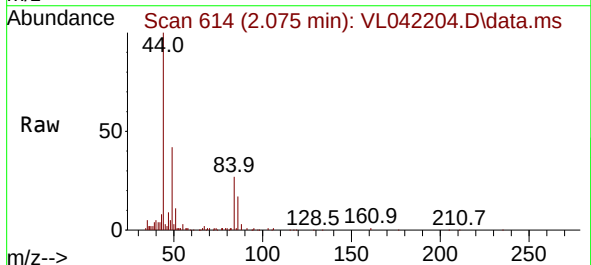
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

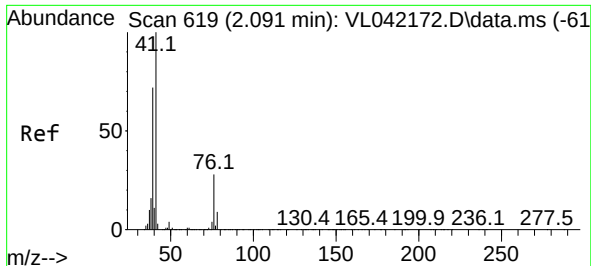
Tgt Ion: 45 Resp: 20570  
Ion Ratio Lower Upper  
45 100  
58 731.7 36.9 55.3#



#20  
Methylene Chloride  
Concen: 0.505 ppbv  
RT: 2.075 min Scan# 614  
Delta R.T. 0.016 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 84 Resp: 4857  
Ion Ratio Lower Upper  
84 100  
49 156.5 120.2 180.4  
51 27.1 37.4 56.0#  
86 62.9 52.4 78.6

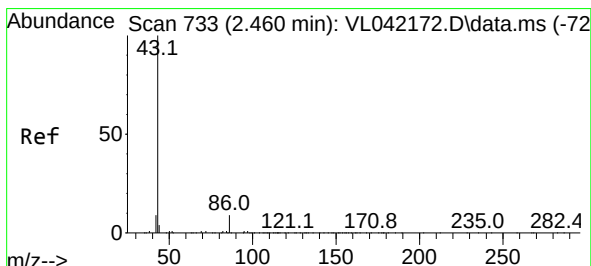
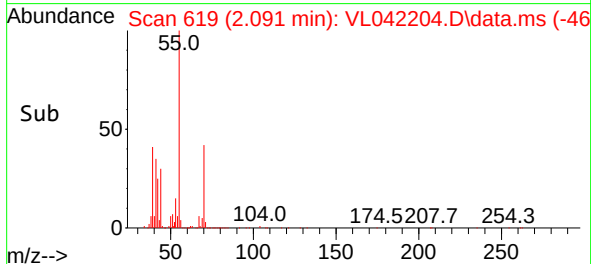
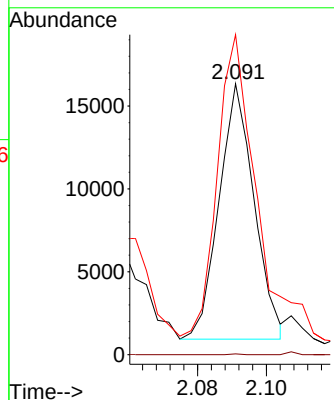
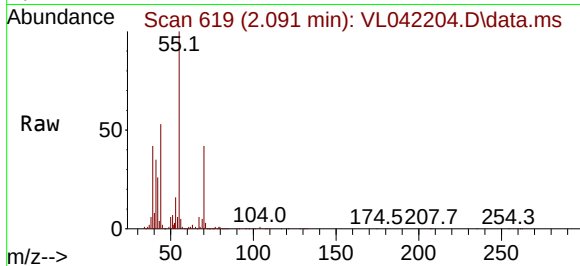




#21  
 Allyl Chloride  
 Concen: 0.599 ppbv  
 RT: 2.091 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL042204.D  
 Acq: 31 Mar 2025 11:06

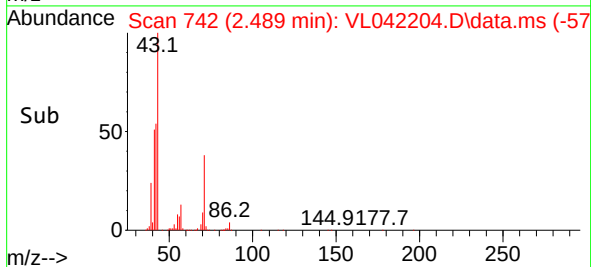
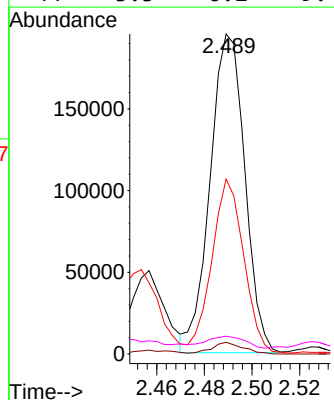
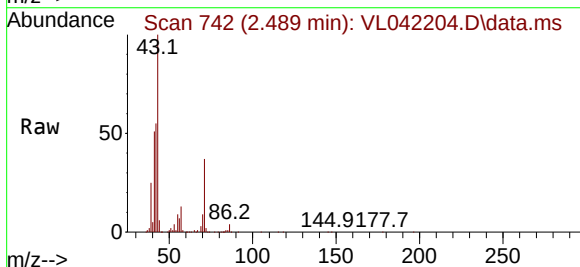
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 SSSG-DUP-1-3262025

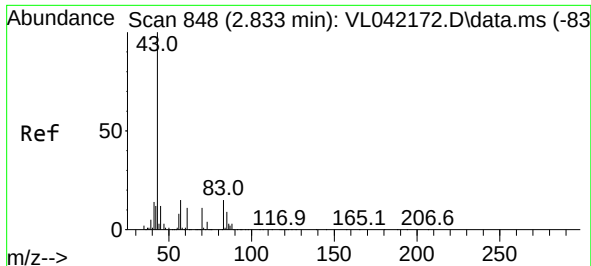
Tgt Ion: 41 Resp: 10903  
 Ion Ratio Lower Upper  
 41 100  
 76 0.4 24.1 36.1#  
 39 197.7 61.1 91.7#



#23  
 Vinyl Acetate  
 Concen: 17.688 ppbv  
 RT: 2.489 min Scan# 742  
 Delta R.T. 0.029 min  
 Lab File: VL042204.D  
 Acq: 31 Mar 2025 11:06

Tgt Ion: 43 Resp: 197581  
 Ion Ratio Lower Upper  
 43 100  
 86 3.7 5.5 8.3#  
 42 54.4 8.6 13.0#  
 44 3.3 6.2 9.4#

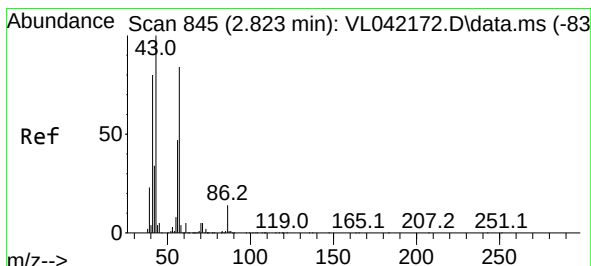
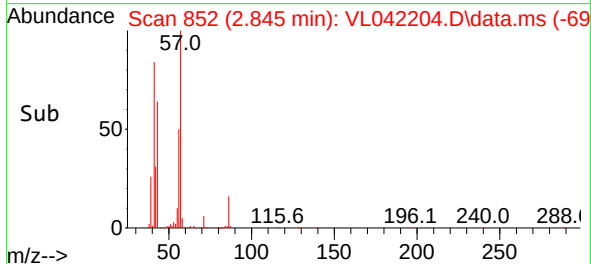
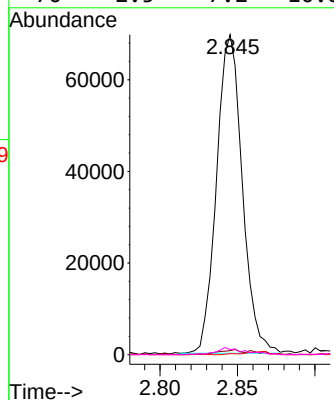
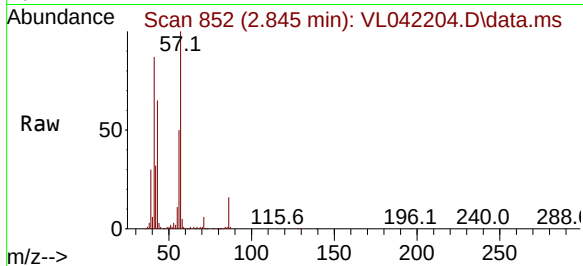




#25  
Ethyl Acetate  
Concen: 1.198 ppbv  
RT: 2.845 min Scan# 81  
Delta R.T. 0.013 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

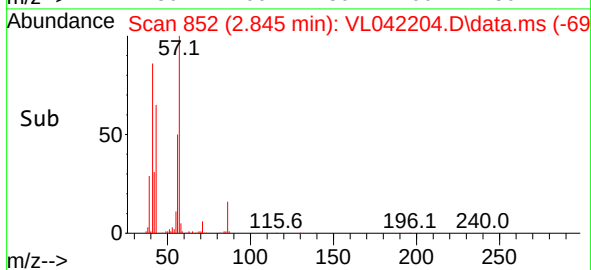
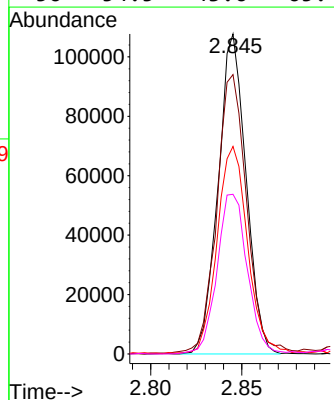
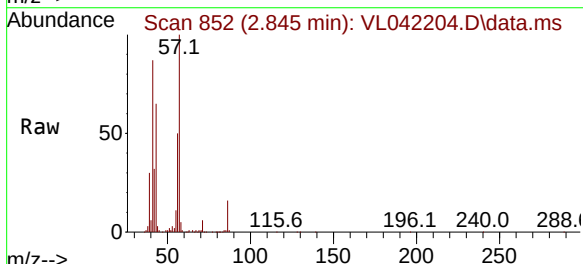
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 80261 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 2.2      | 8.2 12.2#   |
| 61 1.0      | 7.3 10.9#   |
| 70 2.5      | 7.2 10.8#   |

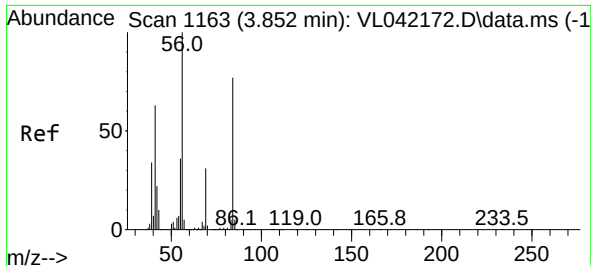


#26  
Hexane  
Concen: 4.428 ppbv  
RT: 2.845 min Scan# 852  
Delta R.T. 0.022 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 114579 |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 95.4     | 76.6 114.8   |
| 43 73.9     | 207.8 311.8# |
| 56 54.5     | 43.6 65.4    |



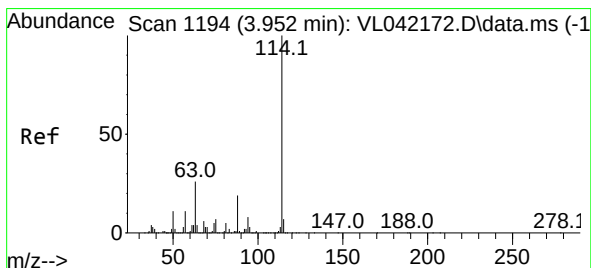
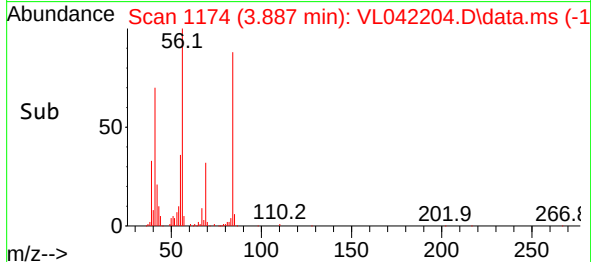
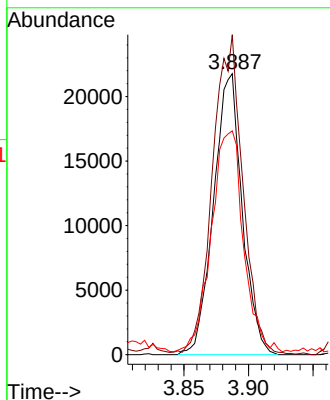
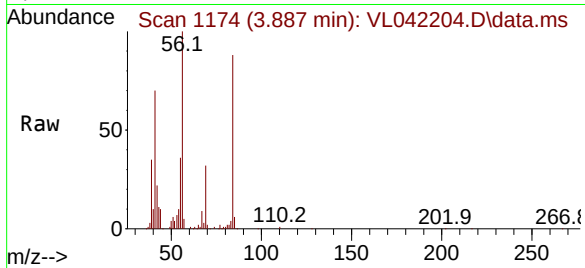




#30  
Cyclohexane  
Concen: 1.496 ppbv  
RT: 3.887 min Scan# 1163  
Delta R.T. 0.035 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

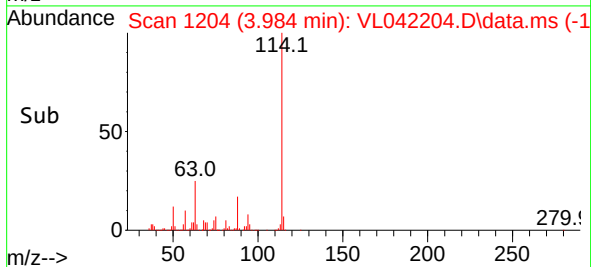
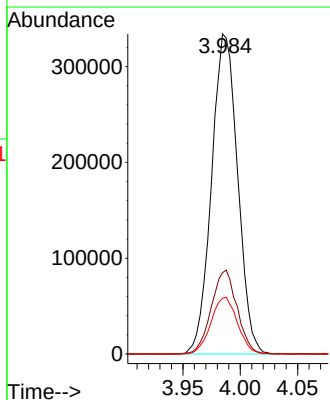
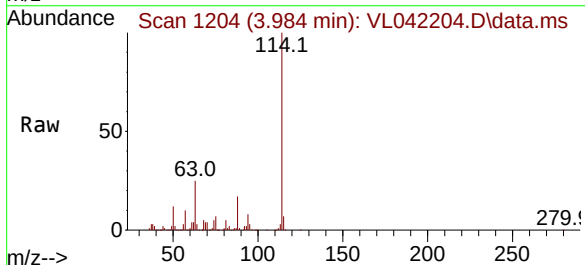
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

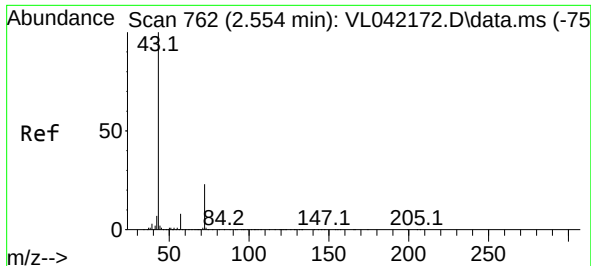
Tgt Ion: 84 Resp: 33602  
Ion Ratio Lower Upper  
84 100  
56 118.8 102.8 154.2  
41 87.3 66.5 99.7



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.984 min Scan# 1204  
Delta R.T. 0.032 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 114 Resp: 528809  
Ion Ratio Lower Upper  
114 100  
63 25.9 20.7 31.1  
88 17.9 15.0 22.4

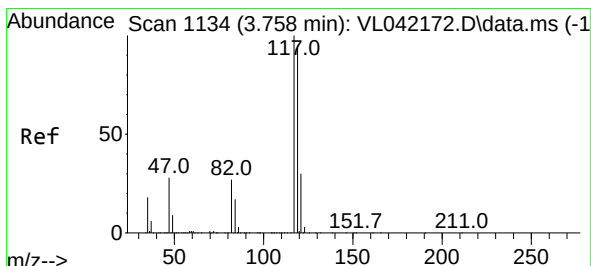
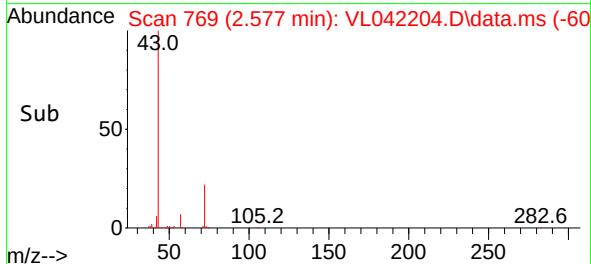
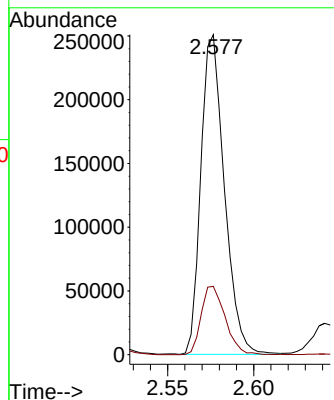
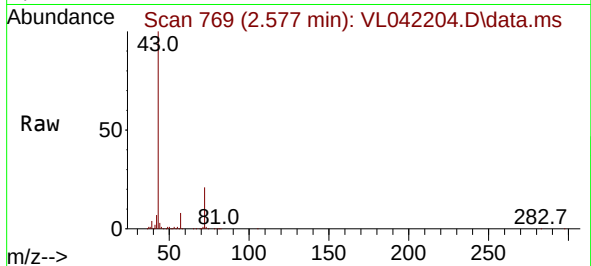




#34  
2-Butanone  
Concen: 6.223 ppbv  
RT: 2.577 min Scan# 71  
Delta R.T. 0.022 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

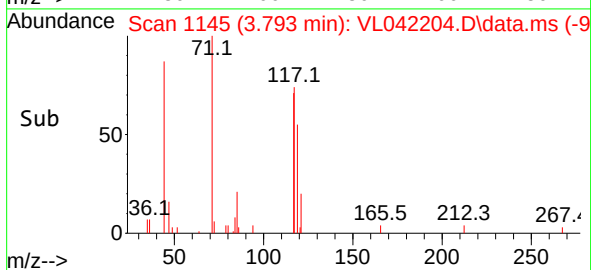
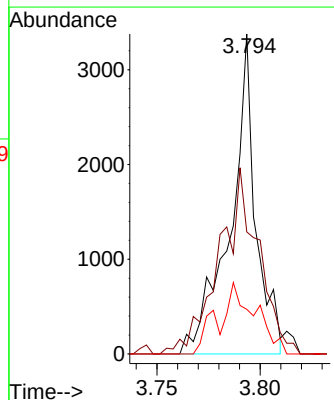
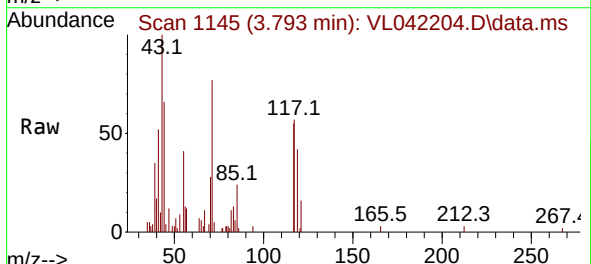
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

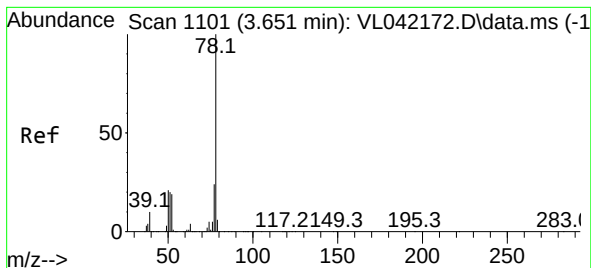
Tgt Ion: 43 Resp: 238611  
Ion Ratio Lower Upper  
43 100  
72 21.9 18.2 27.2



#35  
Carbon Tetrachloride  
Concen: 0.070 ppbv  
RT: 3.793 min Scan# 1145  
Delta R.T. 0.035 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 117 Resp: 2894  
Ion Ratio Lower Upper  
117 100  
119 33.5 76.2 114.2#  
121 14.0 24.2 36.4#





#36

Benzene

Concen: 5.632 ppbv

RT: 3.683 min Scan# 1111

Delta R.T. 0.032 min

Lab File: VL042204.D

Acq: 31 Mar 2025 11:06

Instrument :

MSVOA\_L

ClientSampleId :

SSSG-DUP-1-3262025

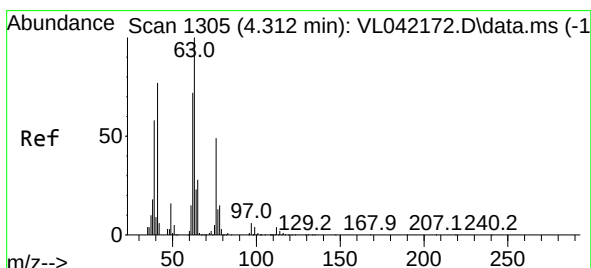
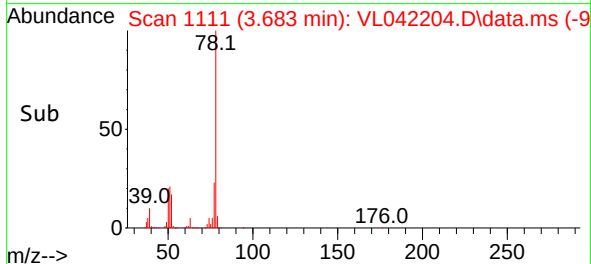
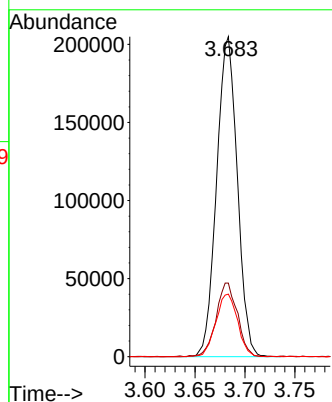
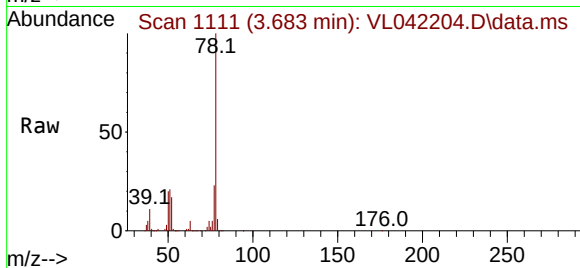
Tgt Ion: 78 Resp: 295232

Ion Ratio Lower Upper

78 100

77 22.8 19.1 28.7

50 19.5 16.6 24.8



#39

1,2-Dichloropropane

Concen: 7.163 ppbv

RT: 3.988 min Scan# 1205

Delta R.T. -0.324 min

Lab File: VL042204.D

Acq: 31 Mar 2025 11:06

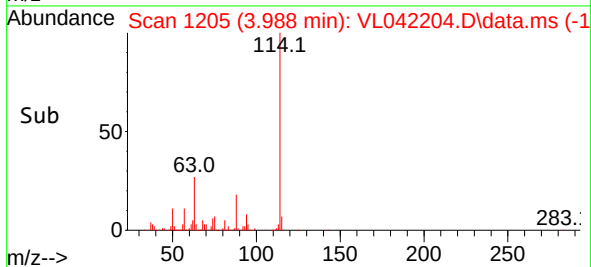
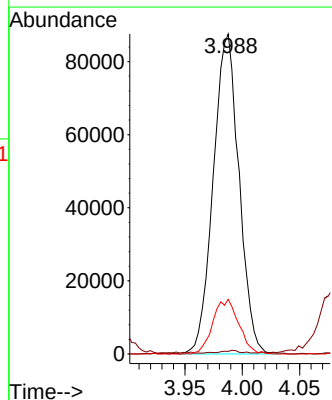
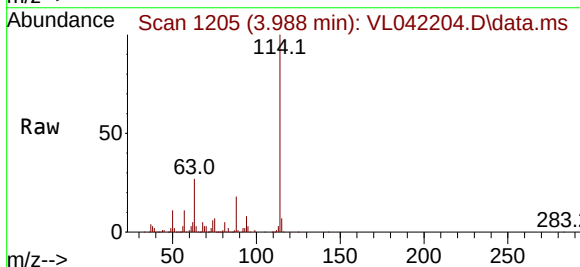
Tgt Ion: 63 Resp: 136761

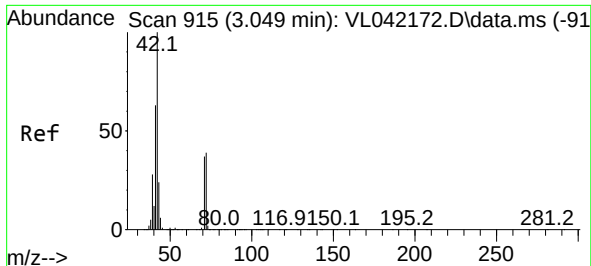
Ion Ratio Lower Upper

63 100

41 0.4 61.7 92.5#

62 17.1 57.6 86.4#

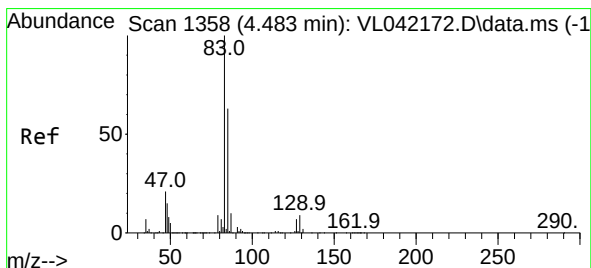
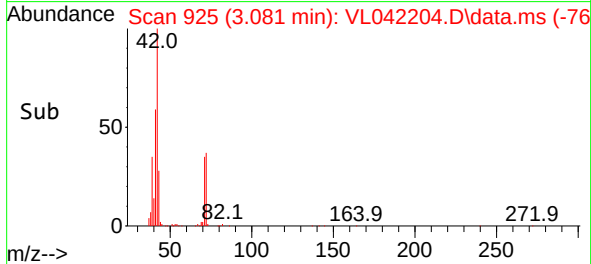
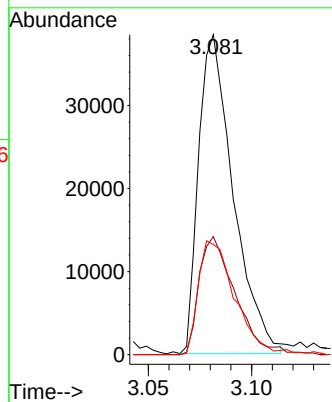
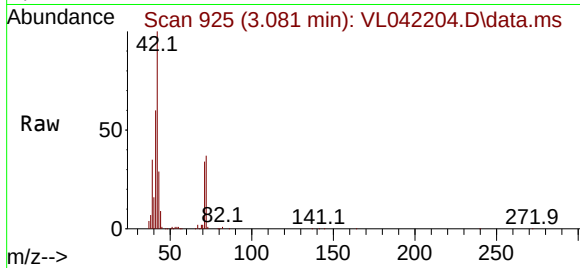




#41  
Tetrahydrofuran  
Concen: 2.032 ppbv  
RT: 3.081 min Scan# 915  
Delta R.T. 0.032 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

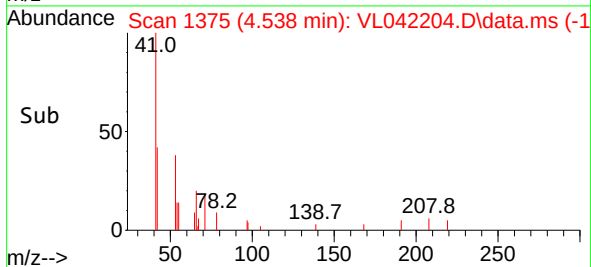
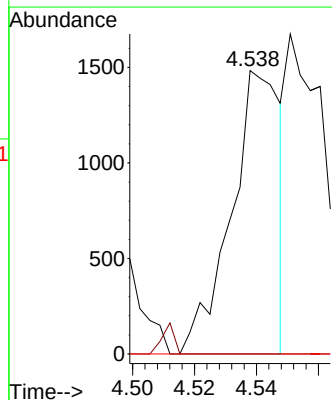
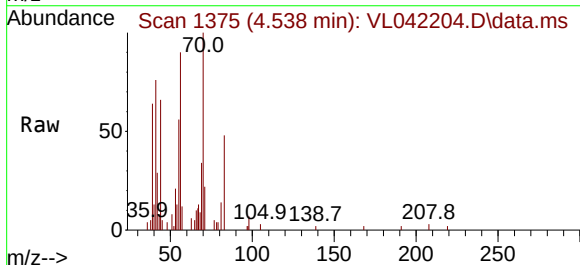
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

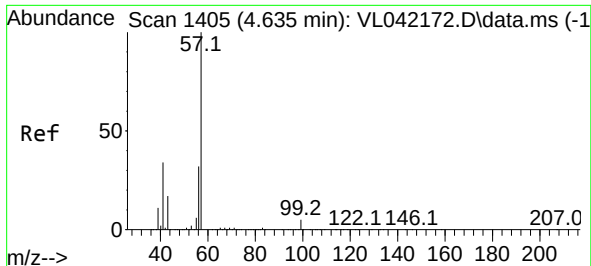
Tgt Ion: 42 Resp: 44873  
Ion Ratio Lower Upper  
42 100  
72 38.6 31.4 47.0  
71 37.9 30.2 45.4



#42  
Bromodichloromethane  
Concen: 0.039 ppbv  
RT: 4.538 min Scan# 1375  
Delta R.T. 0.055 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 83 Resp: 1622  
Ion Ratio Lower Upper  
83 100  
85 0.0 50.5 75.7#  
127 0.0 5.9 8.9#

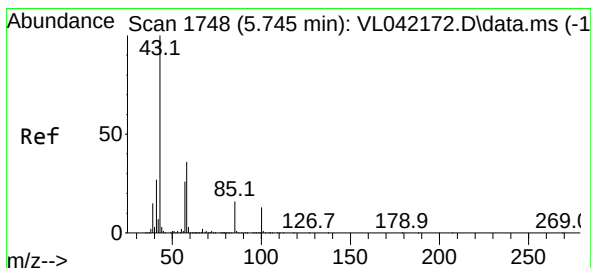
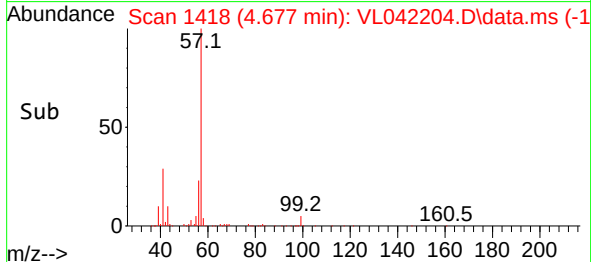
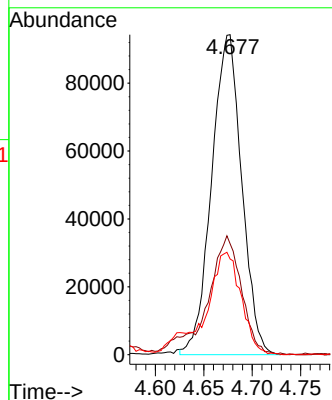
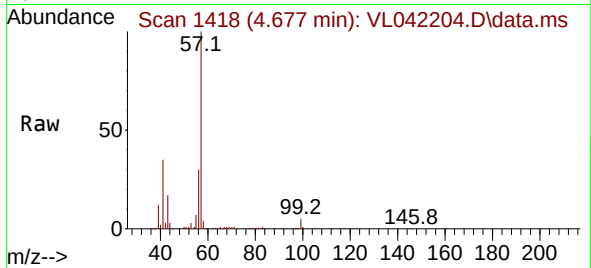




#44  
2,2,4-Trimethylpentane  
Concen: 2.300 ppbv  
RT: 4.677 min Scan# 1405  
Delta R.T. 0.042 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

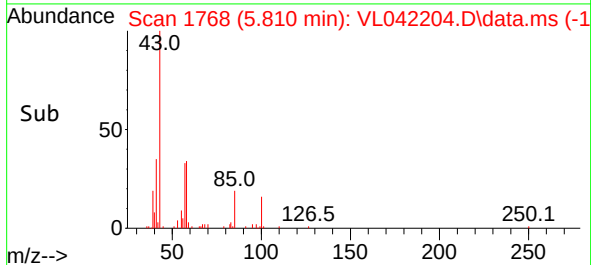
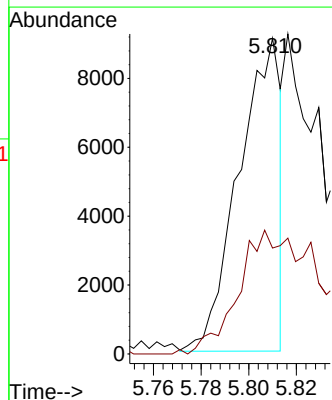
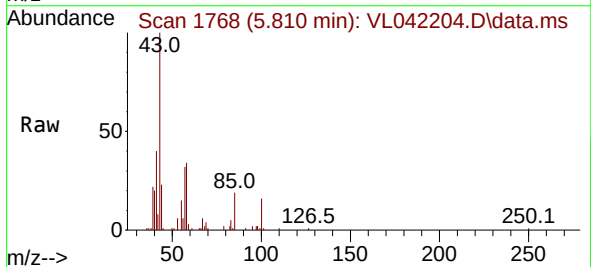
Instrument : MSVOA\_1  
ClientSampleId : SSSG-DUP-1-3262025

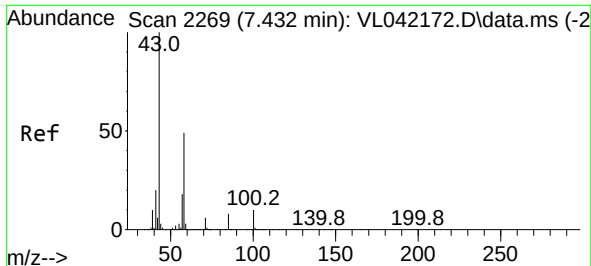
Tgt Ion: 57 Resp: 203749  
Ion Ratio Lower Upper  
57 100  
41 42.2 26.8 40.2#  
56 38.6 25.6 38.4#



#50  
4-Methyl-2-Pentanone  
Concen: 0.182 ppbv  
RT: 5.810 min Scan# 1768  
Delta R.T. 0.064 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 43 Resp: 11036  
Ion Ratio Lower Upper  
43 100  
58 82.6 29.0 43.6#

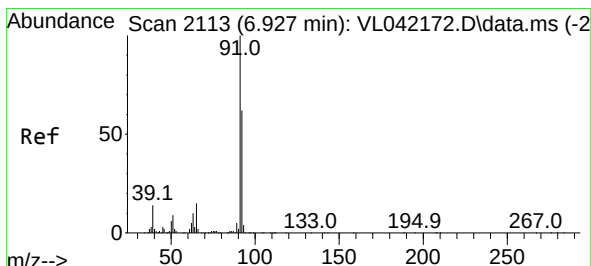
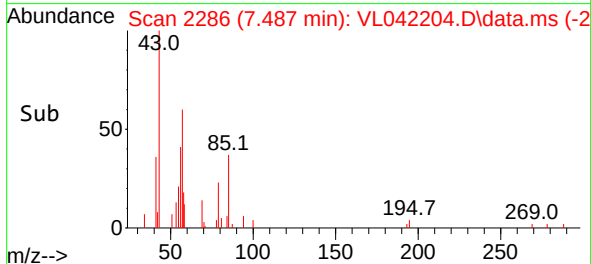
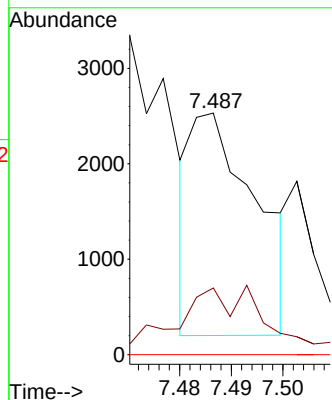
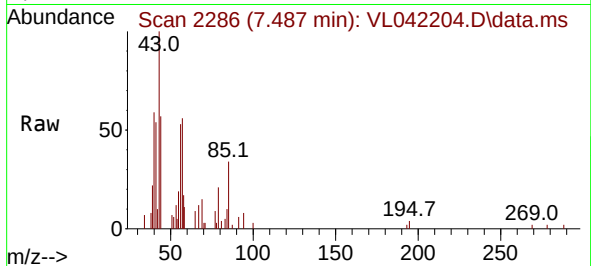




#51  
2-Hexanone  
Concen: 0.041 ppbv  
RT: 7.487 min Scan# 2126  
Delta R.T. 0.055 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

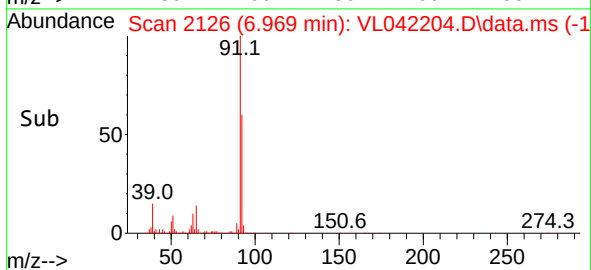
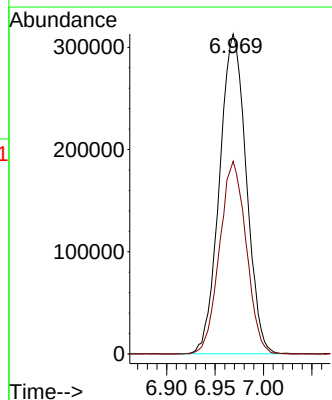
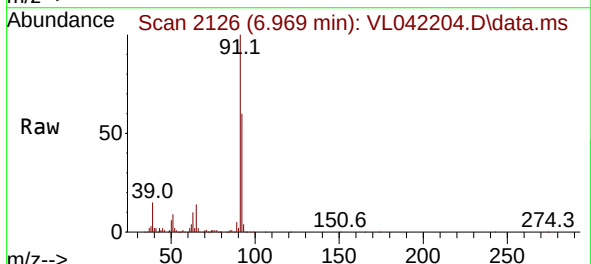
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

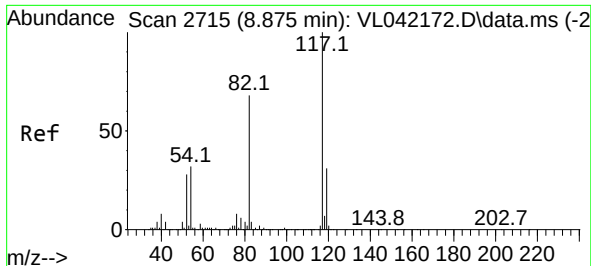
Tgt Ion: 43 Resp: 2034  
Ion Ratio Lower Upper  
43 100  
58 49.6 39.7 59.5  
98 0.0 0.1 0.1#



#53  
Toluene  
Concen: 9.680 ppbv  
RT: 6.969 min Scan# 2126  
Delta R.T. 0.042 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 91 Resp: 601582  
Ion Ratio Lower Upper  
91 100  
92 60.0 48.4 72.6

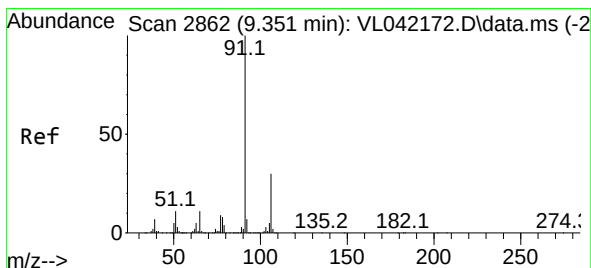
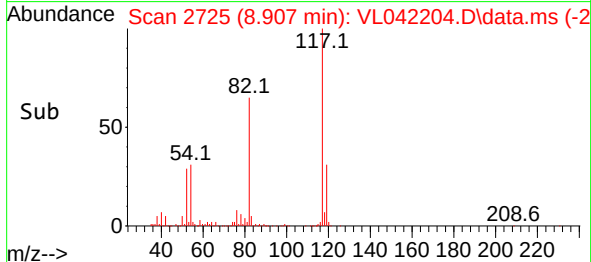
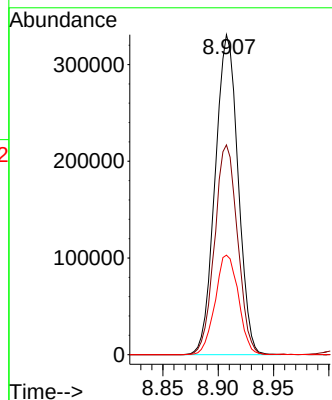
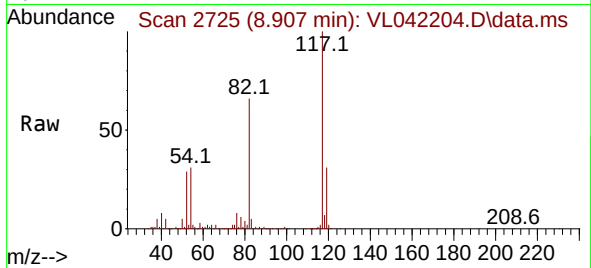




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.907 min Scan# 21  
Delta R.T. 0.032 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

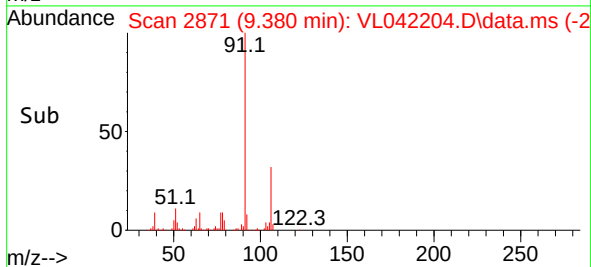
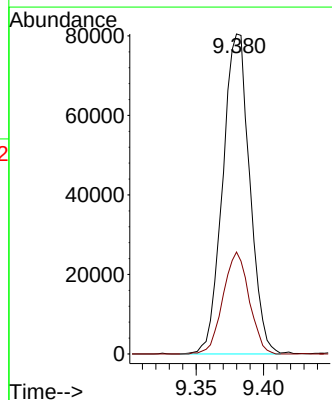
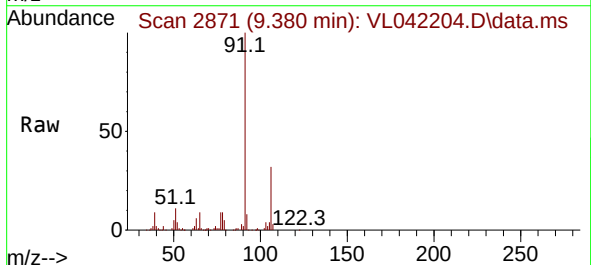
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025

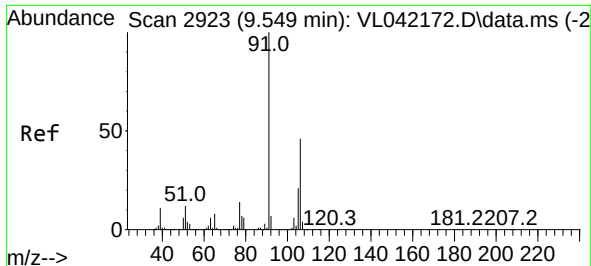
Tgt Ion:117 Resp: 477707  
Ion Ratio Lower Upper  
117 100  
82 65.6 55.8 83.6  
119 31.7 25.5 38.3



#58  
Ethyl Benzene  
Concen: 1.322 ppbv  
RT: 9.380 min Scan# 2871  
Delta R.T. 0.029 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 91 Resp: 112145  
Ion Ratio Lower Upper  
91 100  
106 31.9 24.2 36.2





#59

m/p-Xylene

Concen: 5.070 ppbv

RT: 9.555 min Scan# 2923

Delta R.T. 0.006 min

Lab File: VL042204.D

Acq: 31 Mar 2025 11:06

Instrument :

MSVOA\_1

ClientSampleId :

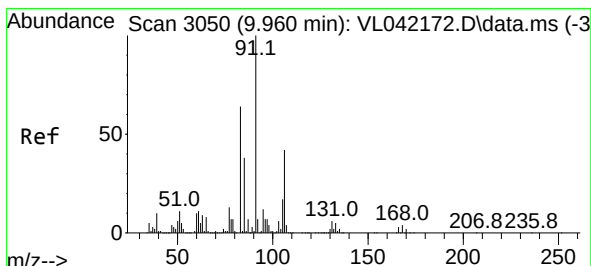
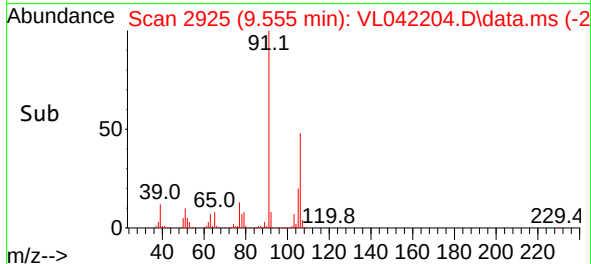
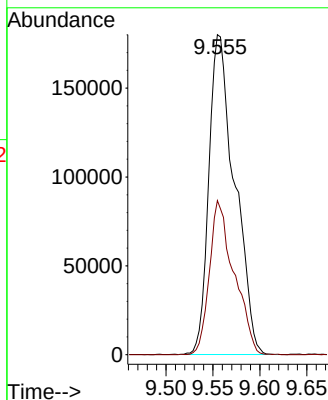
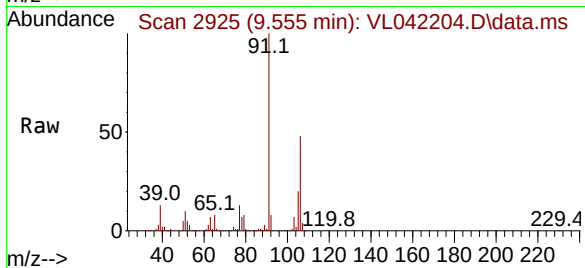
SSSG-DUP-1-3262025

Tgt Ion: 91 Resp: 343493

Ion Ratio Lower Upper

91 100

106 46.1 36.4 54.6



#60

o-Xylene

Concen: 1.884 ppbv

RT: 9.988 min Scan# 3059

Delta R.T. 0.029 min

Lab File: VL042204.D

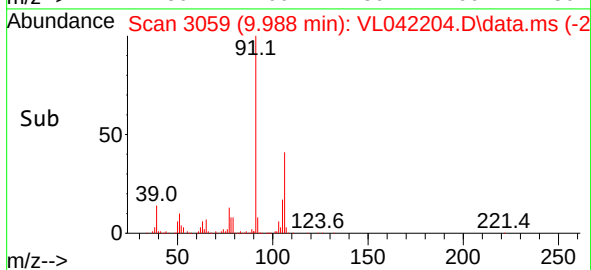
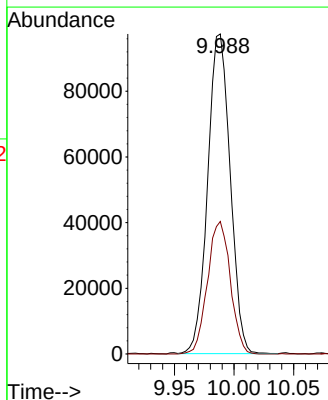
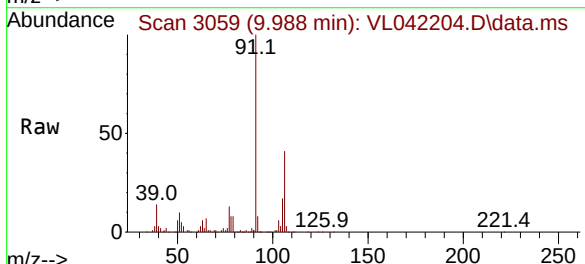
Acq: 31 Mar 2025 11:06

Tgt Ion: 91 Resp: 127965

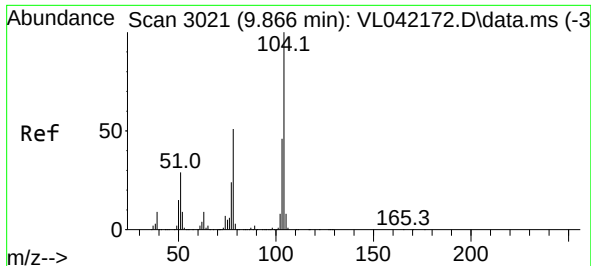
Ion Ratio Lower Upper

91 100

106 41.9 20.8 62.5



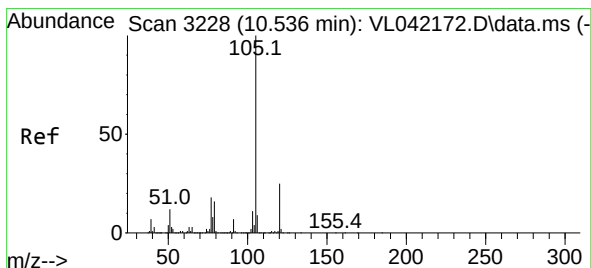
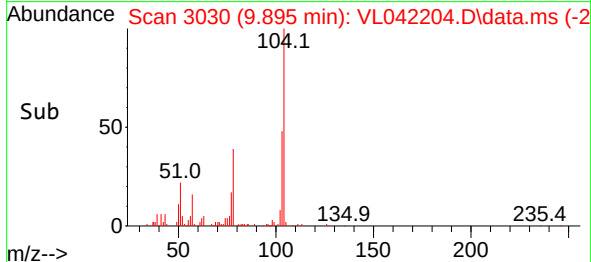
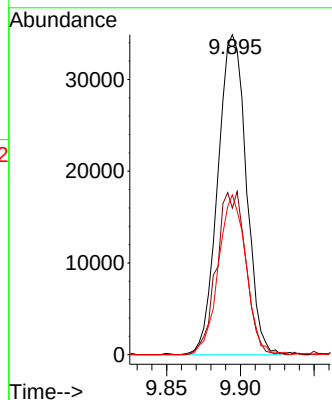
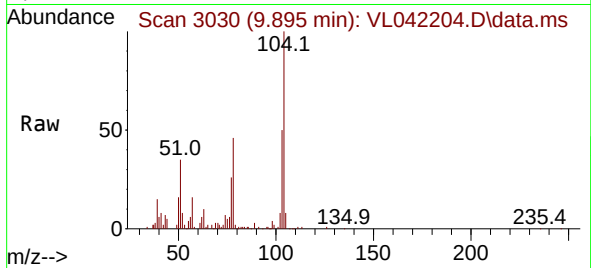




#61  
Styrene  
Concen: 1.394 ppbv  
RT: 9.895 min Scan# 3021  
Delta R.T. 0.029 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

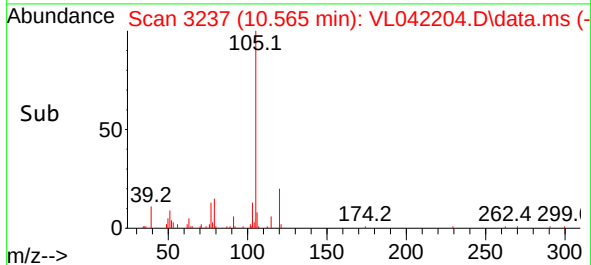
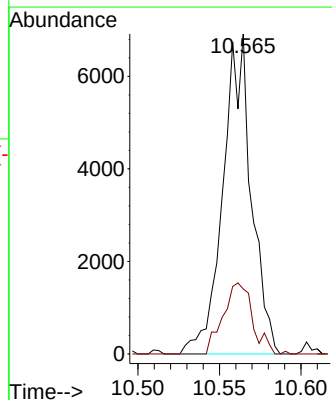
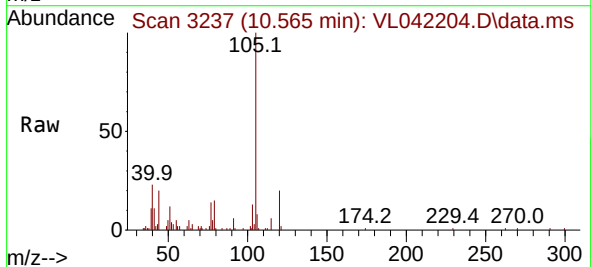
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025

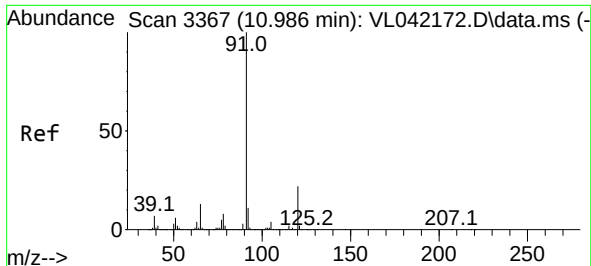
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:104 | Resp: | 46841     |
| Ion Ratio   | Lower | Upper     |
| 104         | 100   |           |
| 78          | 52.3  | 41.8 62.6 |
| 103         | 48.8  | 37.0 55.4 |



#62  
Isopropylbenzene  
Concen: 0.082 ppbv  
RT: 10.565 min Scan# 3237  
Delta R.T. 0.029 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:105 | Resp: | 8374      |
| Ion Ratio   | Lower | Upper     |
| 105         | 100   |           |
| 120         | 23.0  | 19.9 29.9 |

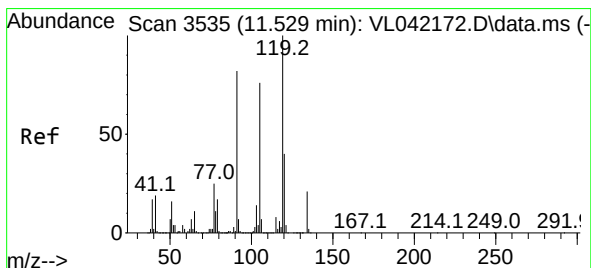
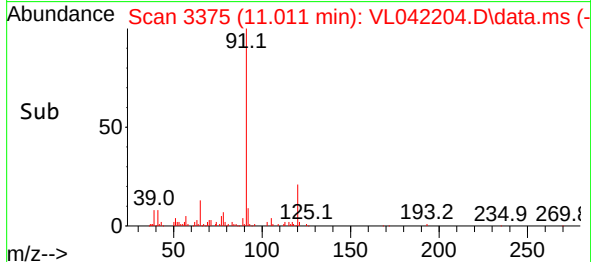
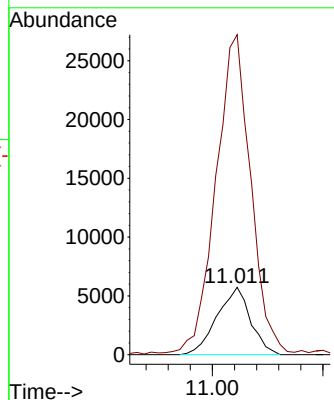
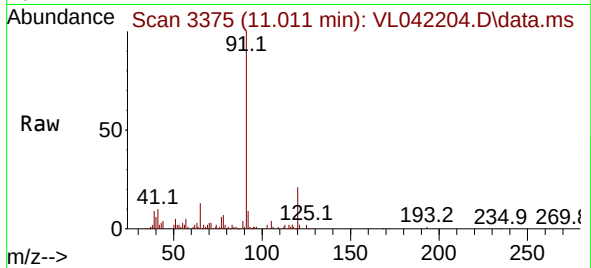




#64  
n-propylbenzene  
Concen: 0.230 ppbv  
RT: 11.011 min Scan# 31  
Delta R.T. 0.026 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

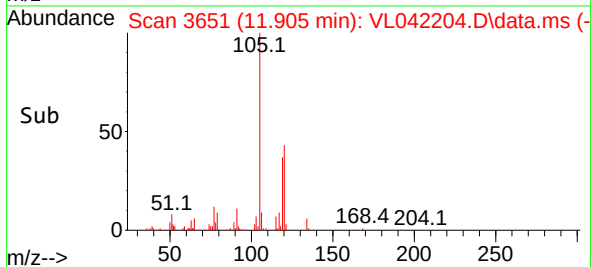
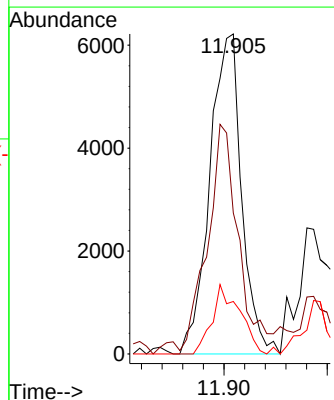
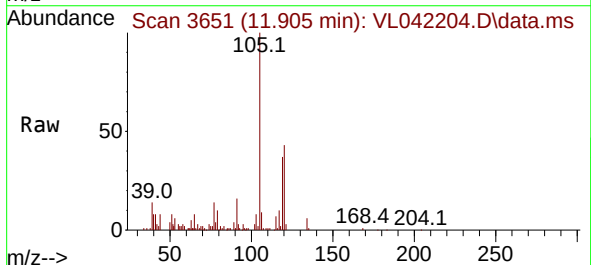
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025

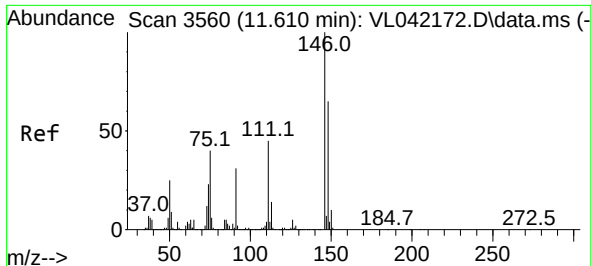
Tgt Ion:120 Resp: 6017  
Ion Ratio Lower Upper  
120 100  
91 499.2 376.9 565.3



#65  
tert-Butylbenzene  
Concen: 0.071 ppbv  
RT: 11.905 min Scan# 3651  
Delta R.T. 0.375 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion:119 Resp: 6664  
Ion Ratio Lower Upper  
119 100  
91 76.7 66.0 99.0  
134 19.1 16.7 25.1

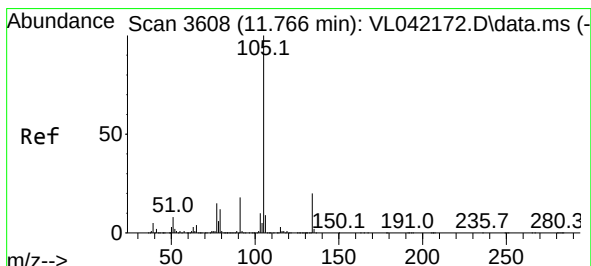
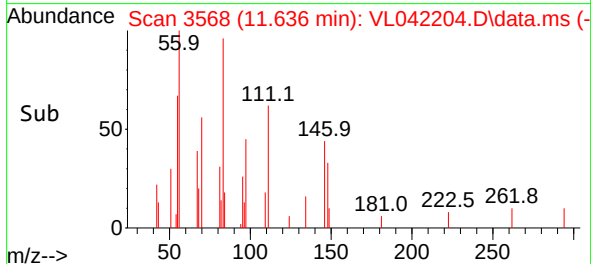
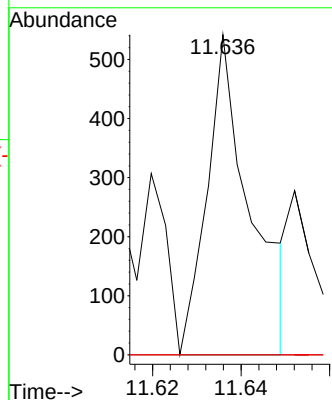
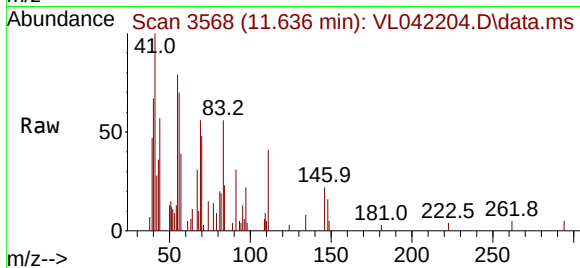




#66  
Benzyl Chloride  
Concen: 0.037 ppbv  
RT: 11.636 min Scan# 311  
Delta R.T. 0.026 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

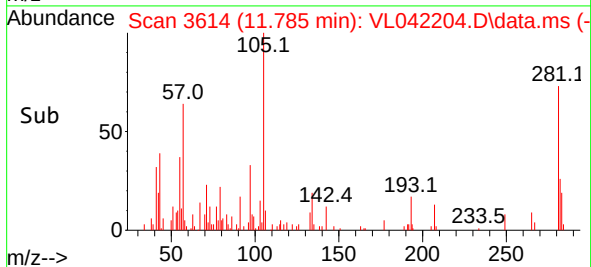
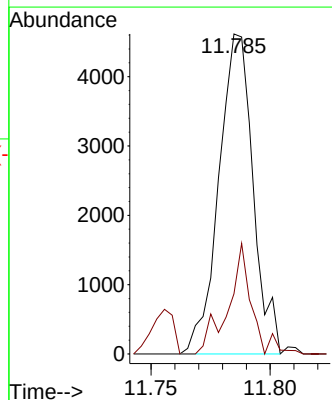
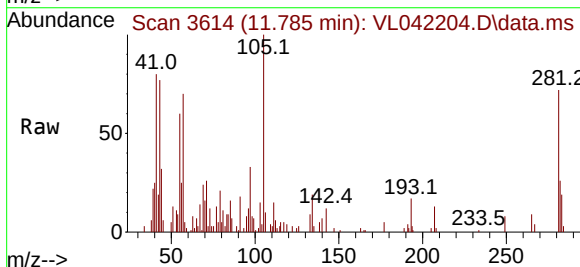
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025

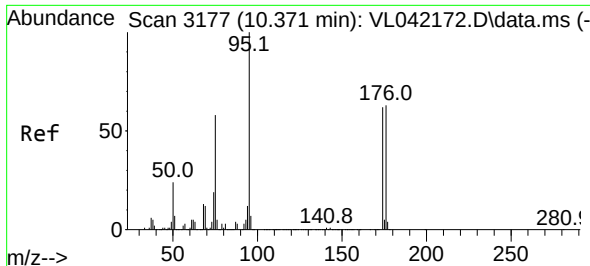
Tgt Ion: 91 Resp: 366  
Ion Ratio Lower Upper  
91 100  
126 0.0 13.8 20.6#  
128 0.0 4.5 6.7#



#67  
sec-Butylbenzene  
Concen: 0.035 ppbv  
RT: 11.785 min Scan# 3614  
Delta R.T. 0.019 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 105 Resp: 4619  
Ion Ratio Lower Upper  
105 100  
134 24.0 15.5 23.3#

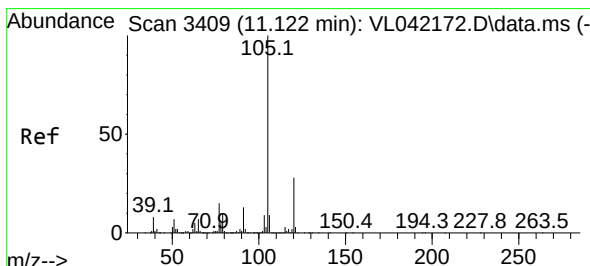
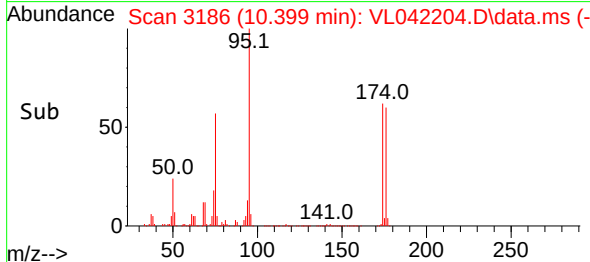
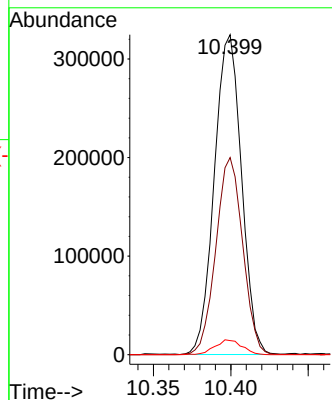
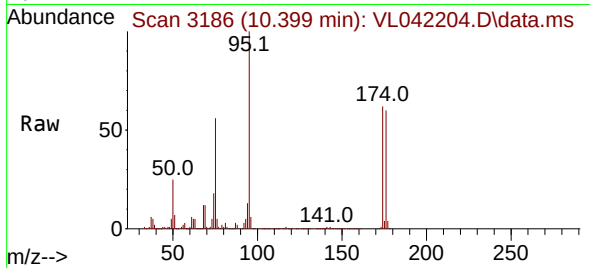




#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.078 ppbv  
RT: 10.399 min Scan# 3177  
Delta R.T. 0.029 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

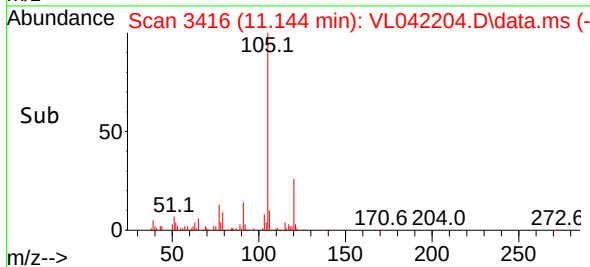
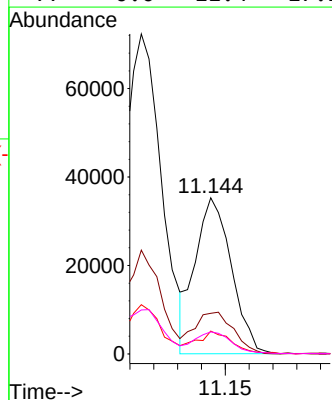
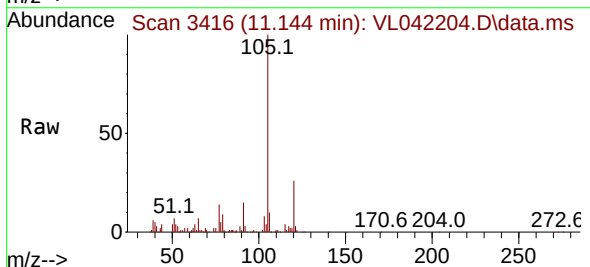
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025

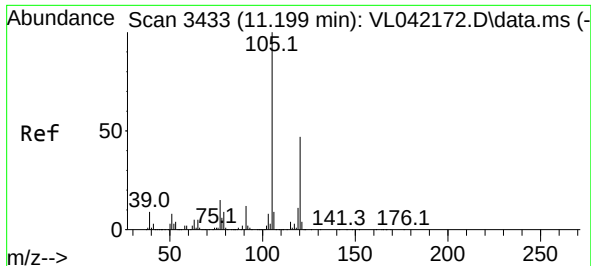
Tgt Ion: 95 Resp: 395364  
Ion Ratio Lower Upper  
95 100  
174 61.0 50.6 76.0  
175 4.6 3.8 5.6



#72  
4-Ethyltoluene  
Concen: 0.441 ppbv  
RT: 11.144 min Scan# 3416  
Delta R.T. 0.022 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion: 105 Resp: 37267  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.4 35.0#  
91 0.0 10.3 15.5#  
77 0.0 11.4 17.2#

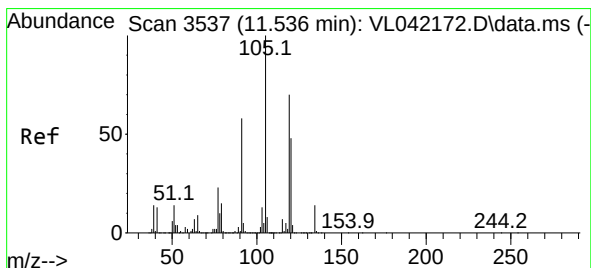
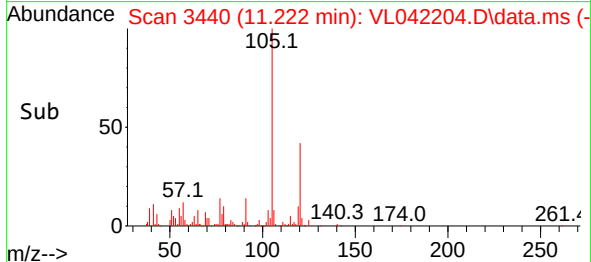
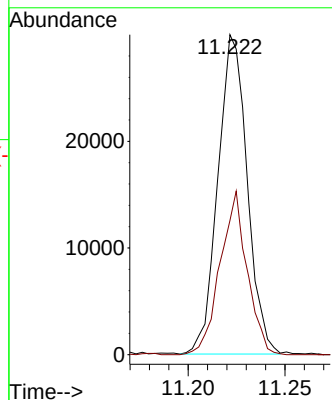
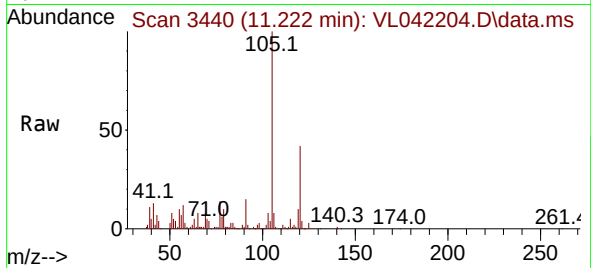




#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.426 ppbv  
 RT: 11.222 min Scan# 3433  
 Delta R.T. 0.022 min  
 Lab File: VL042204.D  
 Acq: 31 Mar 2025 11:06

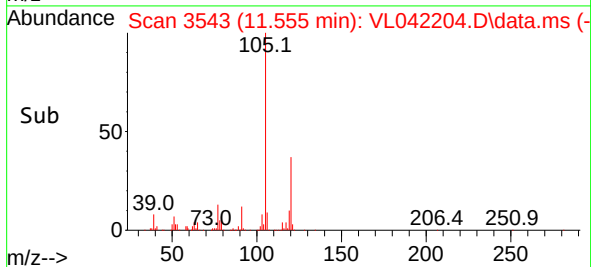
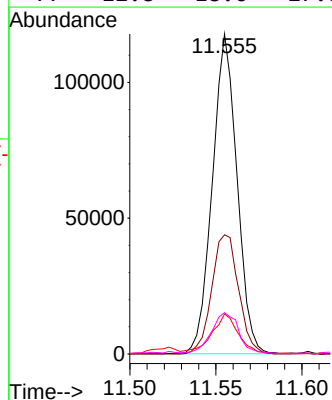
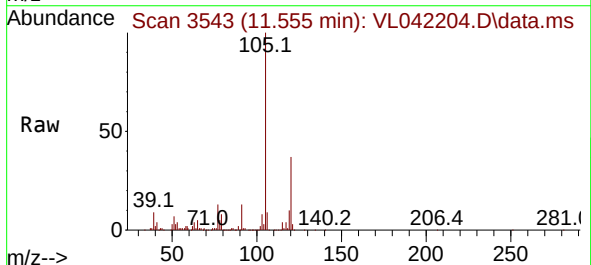
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 SSSG-DUP-1-3262025

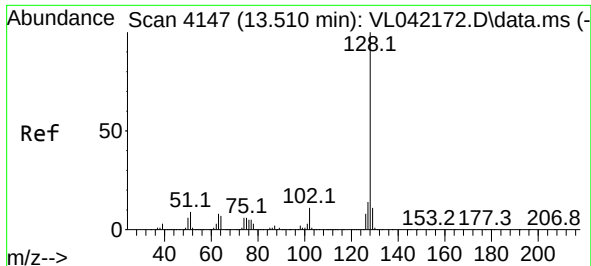
Tgt Ion:105 Resp: 31497  
 Ion Ratio Lower Upper  
 105 100  
 120 42.0 37.4 56.0



#74  
 1,2,4-Trimethylbenzene  
 Concen: 1.378 ppbv  
 RT: 11.555 min Scan# 3543  
 Delta R.T. 0.019 min  
 Lab File: VL042204.D  
 Acq: 31 Mar 2025 11:06

Tgt Ion:105 Resp: 117257  
 Ion Ratio Lower Upper  
 105 100  
 120 37.3 38.6 58.0#  
 91 12.2 46.2 69.2#  
 77 12.8 18.6 27.8#

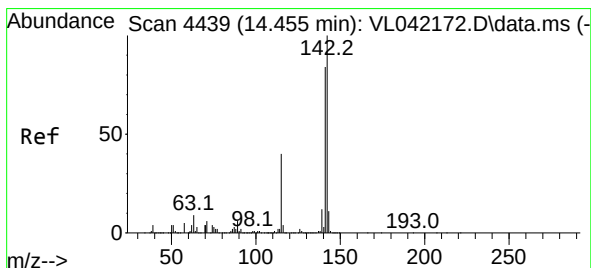
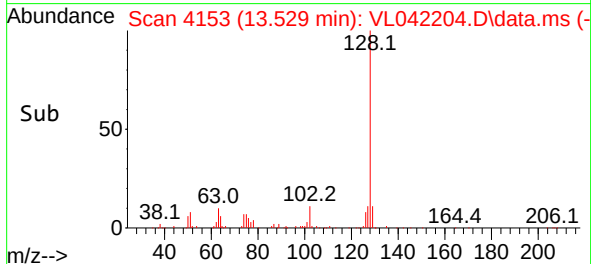
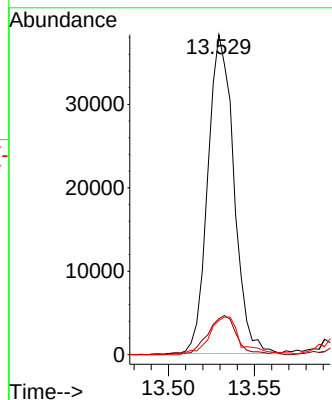
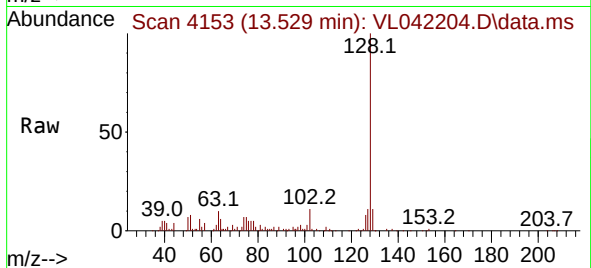




#79  
Naphthalene  
Concen: 0.431 ppbv  
RT: 13.529 min Scan# 4147  
Delta R.T. 0.019 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

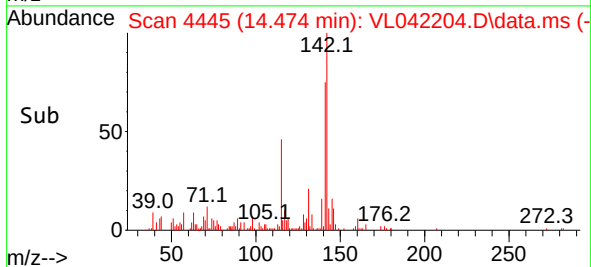
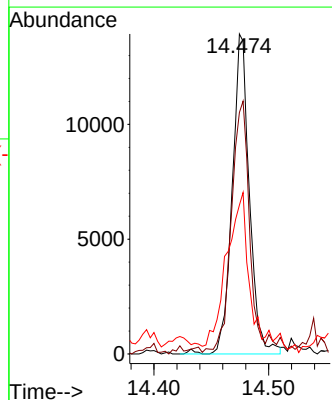
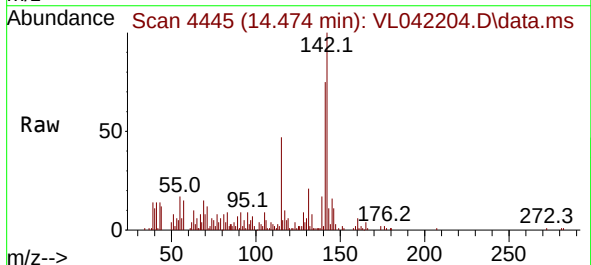
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025

Tgt Ion:128 Resp: 40082  
Ion Ratio Lower Upper  
128 100  
127 11.0 10.8 16.2  
129 10.8 9.0 13.4



#80  
Naphthalene,2-methyl-  
Concen: 0.317 ppbv  
RT: 14.474 min Scan# 4445  
Delta R.T. 0.019 min  
Lab File: VL042204.D  
Acq: 31 Mar 2025 11:06

Tgt Ion:142 Resp: 14485  
Ion Ratio Lower Upper  
142 100  
141 85.6 66.3 99.5  
115 64.9 31.6 47.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL033125\  
 Data File : VL042205.D  
 Acq On : 31 Mar 2025 11:52  
 Operator : SY/MD  
 Sample : Q1669-06DL 4X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SSSG-DUP-1-3262025DL

Quant Time: Apr 01 01:37:39 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

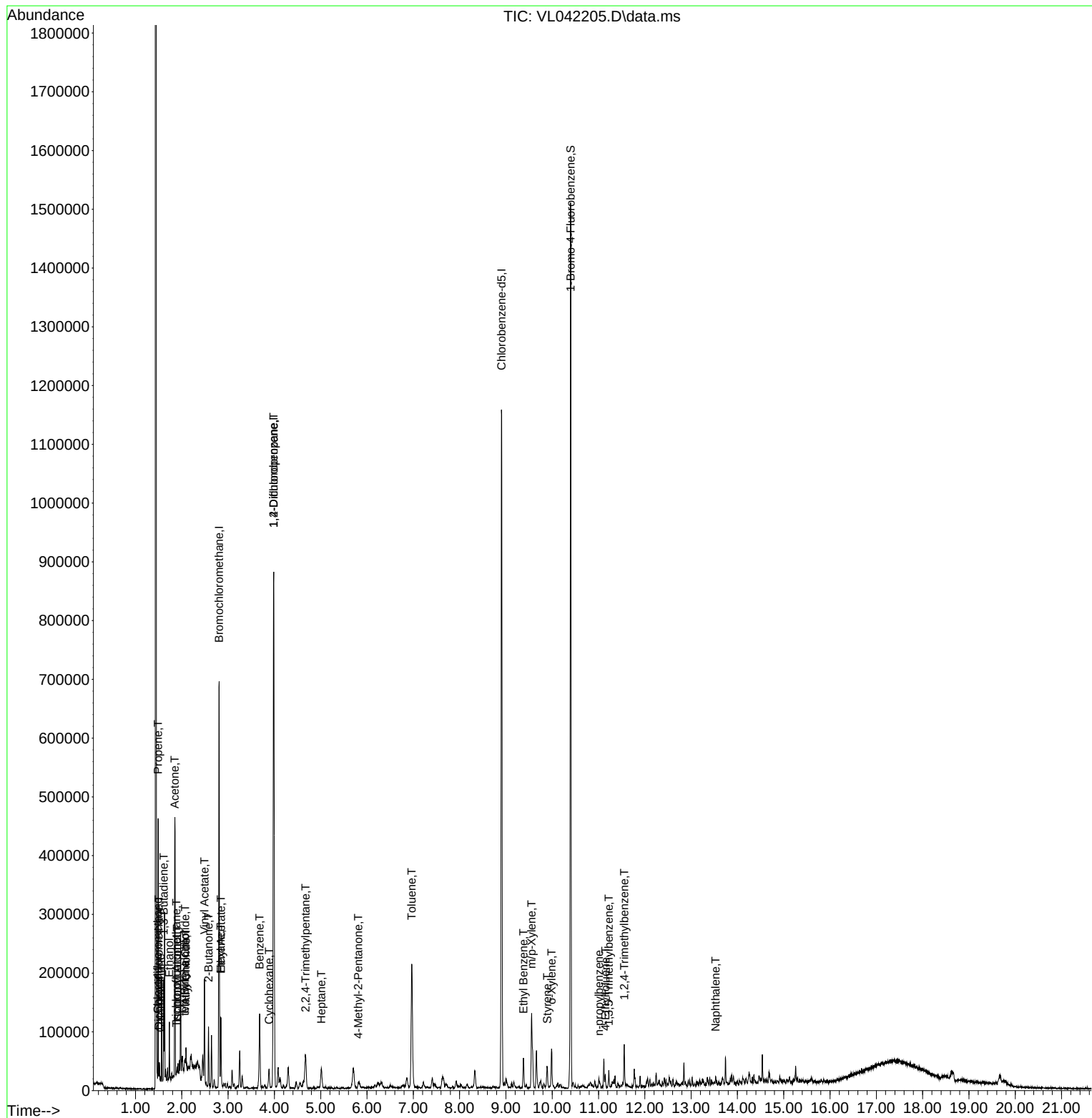
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.803  | 49    | 188934   | 10.000   | ppbv   | 0.02     |
| 33) 1,4-Difluorobenzene     | 3.985  | 114   | 537109   | 10.000   | ppbv   | 0.03     |
| 55) Chlorobenzene-d5        | 8.908  | 117   | 480959   | 10.000   | ppbv   | 0.03     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.397 | 95    | 388692   | 9.841    | ppbv   | 0.03     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 98.400%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.502  | 85    | 3598     | 0.129    | ppbv # | 84       |
| 3) Chlorodifluoromethane    | 1.483  | 51    | 2993     | 0.105    | ppbv # | 84       |
| 4) Chloromethane            | 1.538  | 50    | 1536     | 0.135    | ppbv # | 82       |
| 9) Propene                  | 1.489  | 41    | 58893    | 4.509    | ppbv   | 95       |
| 10) Heptane                 | 5.014  | 43    | 10399    | 0.299    | ppbv # | 28       |
| 11) Trichlorofluoromethane  | 1.884  | 101   | 1386     | 0.051    | ppbv   | 86       |
| 13) Ethanol                 | 1.732  | 45    | 32574    | 26.380   | ppbv   | 84       |
| 15) Acetone                 | 1.845  | 43    | 190475   | 7.209    | ppbv # | 85       |
| 16) 1,3-Butadiene           | 1.609  | 39    | 26963    | 2.089    | ppbv # | 50       |
| 17) tert-Butyl alcohol      | 2.062  | 59    | 1819     | 0.055    | ppbv # | 71       |
| 19) Isopropyl Alcohol       | 1.897  | 45    | 5660     | 0.380    | ppbv # | 1        |
| 20) Methylene Chloride      | 2.075  | 84    | 2549     | 0.259    | ppbv # | 93       |
| 21) Allyl Chloride          | 2.088  | 41    | 2790     | 0.150    | ppbv # | 1        |
| 23) Vinyl Acetate           | 2.489  | 43    | 50576    | 4.422    | ppbv # | 52       |
| 25) Ethyl Acetate           | 2.846  | 43    | 20526    | 0.299    | ppbv # | 79       |
| 26) Hexane                  | 2.842  | 57    | 29019    | 1.095    | ppbv # | 33       |
| 30) Cyclohexane             | 3.884  | 84    | 8868     | 0.386    | ppbv   | 96       |
| 34) 2-Butanone              | 2.577  | 43    | 62430    | 1.603    | ppbv   | 99       |
| 36) Benzene                 | 3.681  | 78    | 76263    | 1.432    | ppbv   | 98       |
| 39) 1,2-Dichloropropane     | 3.985  | 63    | 136854   | 7.057    | ppbv # | 22       |
| 44) 2,2,4-Trimethylpentane  | 4.671  | 57    | 50242    | 0.558    | ppbv # | 79       |
| 50) 4-Methyl-2-Pentanone    | 5.810  | 43    | 2646     | 0.043    | ppbv # | 14       |
| 53) Toluene                 | 6.966  | 91    | 150266   | 2.381    | ppbv   | 98       |
| 58) Ethyl Benzene           | 9.377  | 91    | 27471    | 0.322    | ppbv   | 95       |
| 59) m/p-Xylene              | 9.555  | 91    | 81487    | 1.195    | ppbv   | 99       |
| 60) o-Xylene                | 9.986  | 91    | 28632    | 0.419    | ppbv   | 92       |
| 61) Styrene                 | 9.895  | 104   | 9837     | 0.291    | ppbv   | 92       |
| 64) n-propylbenzene         | 11.012 | 120   | 1291     | 0.049    | ppbv   | 96       |
| 72) 4-Ethyltoluene          | 11.148 | 105   | 7817     | 0.092    | ppbv # | 55       |
| 73) 1,3,5-Trimethylbenzene  | 11.222 | 105   | 7557     | 0.102    | ppbv   | 89       |
| 74) 1,2,4-Trimethylbenzene  | 11.555 | 105   | 24393    | 0.285    | ppbv # | 70       |
| 79) Naphthalene             | 13.530 | 128   | 6586     | 0.070    | ppbv   | 97       |

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

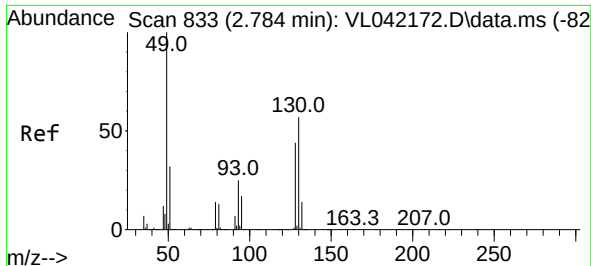
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Data File : VL042205.D  
Acq On : 31 Mar 2025 11:52  
Operator : SY/MD  
Sample : Q1669-06DL 4X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL

Quant Time: Apr 01 01:37:39 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



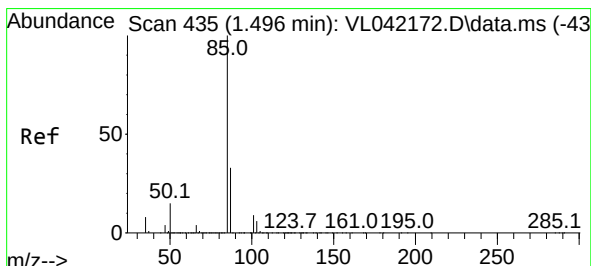
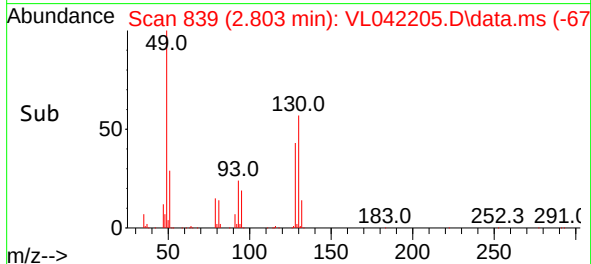
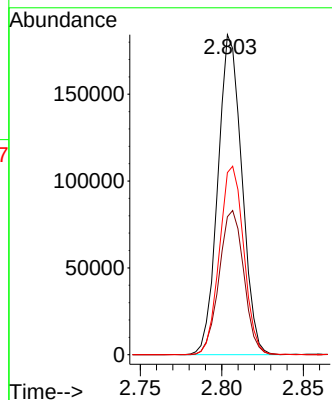
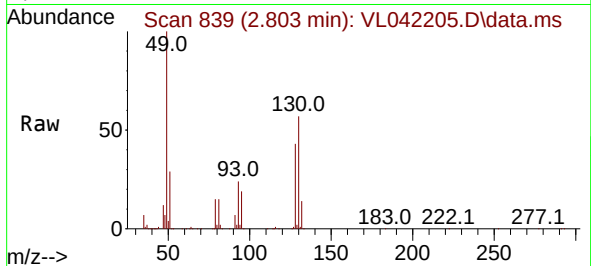




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.803 min Scan# 81  
Delta R.T. 0.019 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

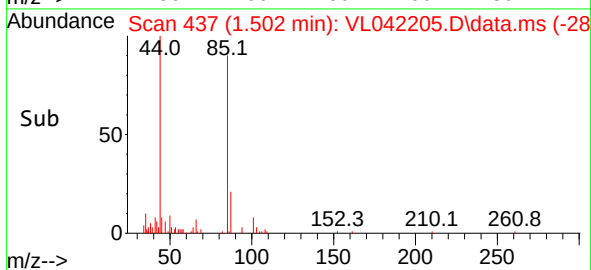
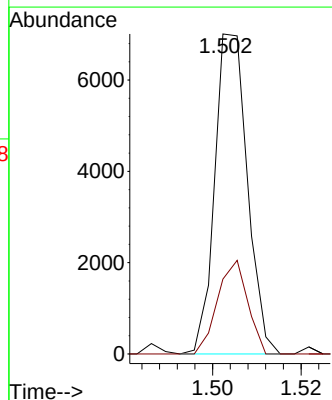
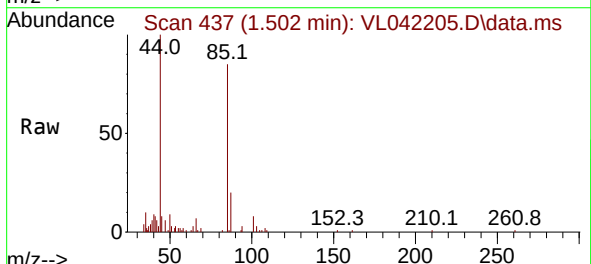
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL

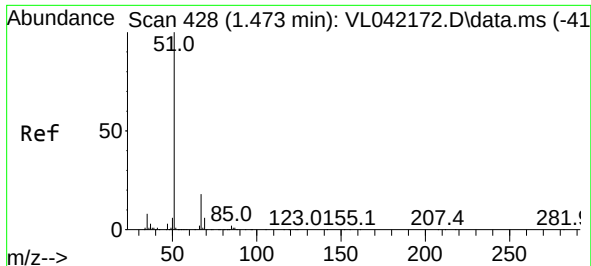
Tgt Ion: 49 Resp: 188934  
Ion Ratio Lower Upper  
49 100  
128 46.3 22.9 68.5  
130 59.5 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 0.129 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.007 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Tgt Ion: 85 Resp: 3598  
Ion Ratio Lower Upper  
85 100  
87 23.4 26.1 39.1#

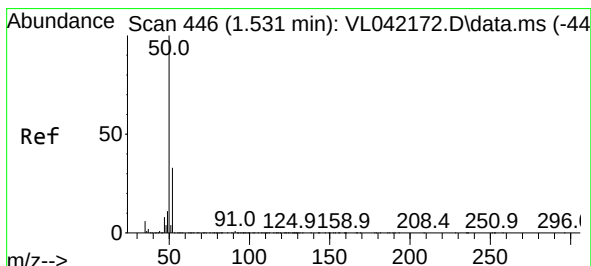
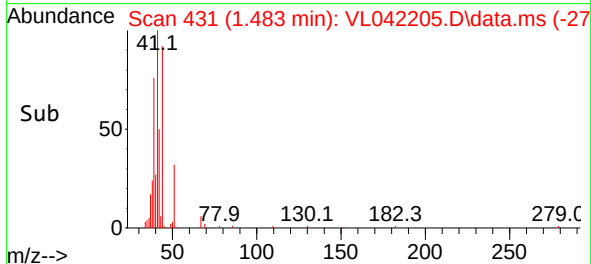
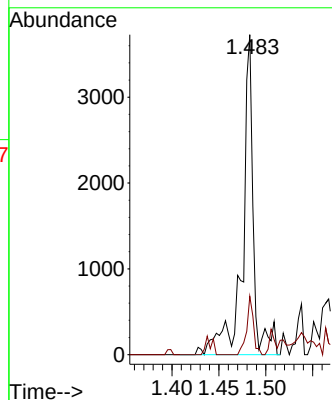
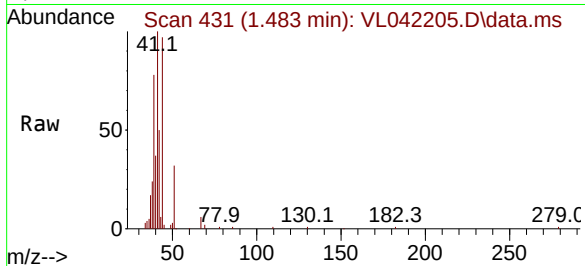




#3  
Chlorodifluoromethane  
Concen: 0.105 ppbv  
RT: 1.483 min Scan# 41  
Delta R.T. 0.010 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

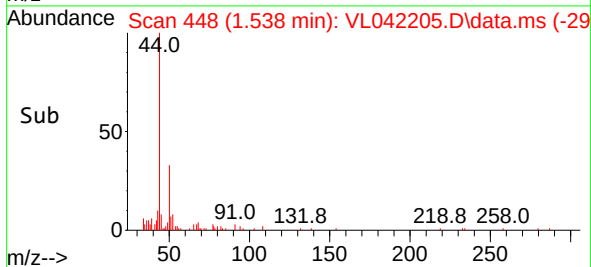
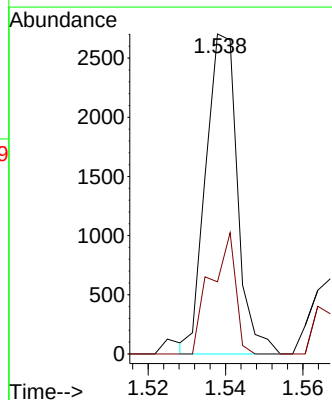
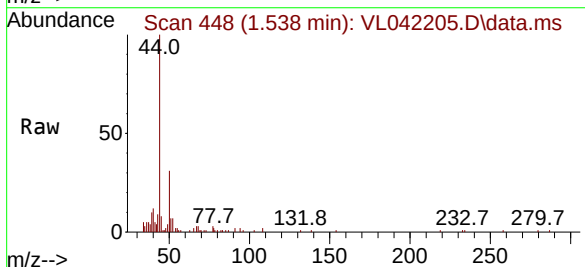
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MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025DL

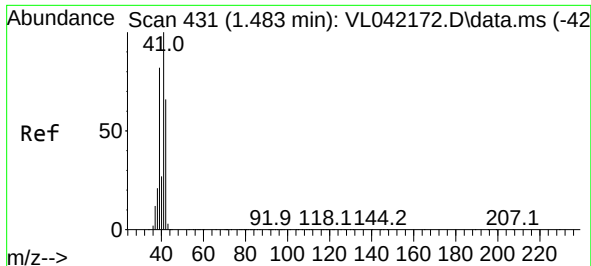
Tgt Ion: 51 Resp: 2993  
Ion Ratio Lower Upper  
51 100  
67 11.4 15.0 22.6#



#4  
Chloromethane  
Concen: 0.135 ppbv  
RT: 1.538 min Scan# 448  
Delta R.T. 0.007 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Tgt Ion: 50 Resp: 1536  
Ion Ratio Lower Upper  
50 100  
52 22.6 26.1 39.1#

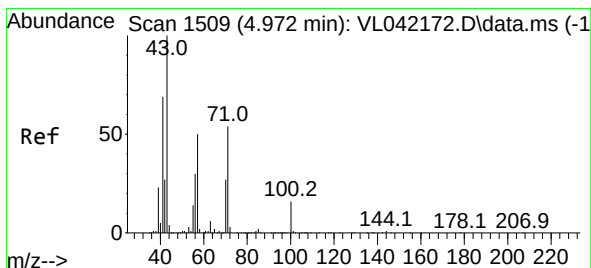
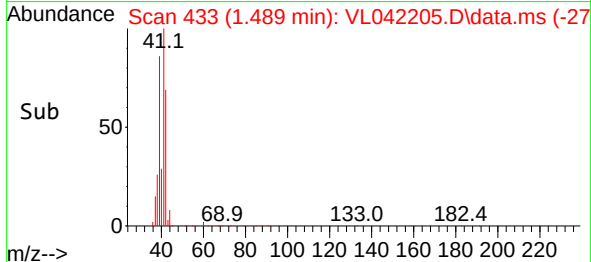
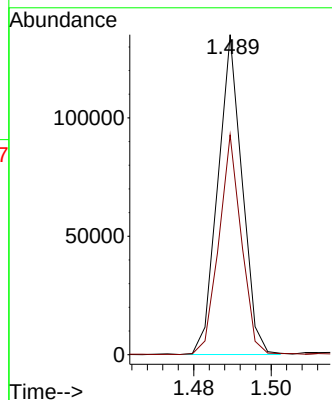
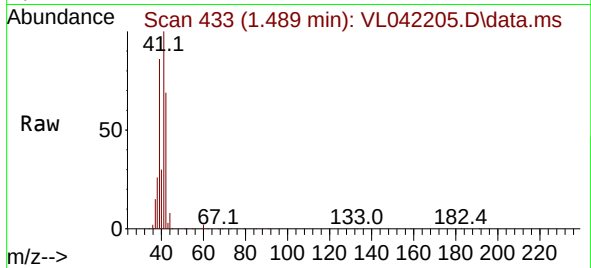




#9  
Propene  
Concen: 4.509 ppbv  
RT: 1.489 min Scan# 41  
Delta R.T. 0.007 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

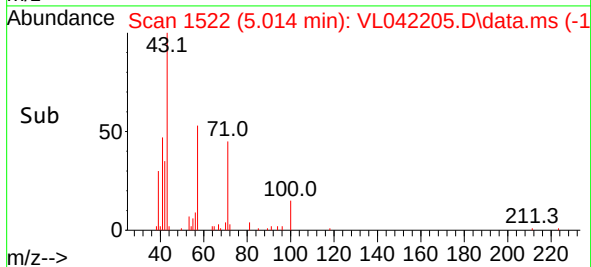
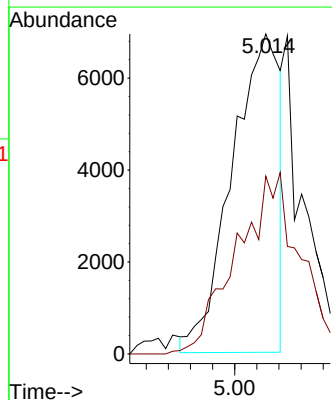
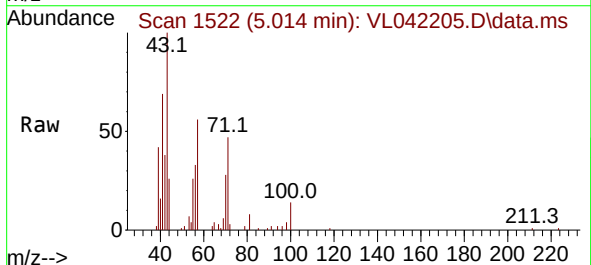
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL

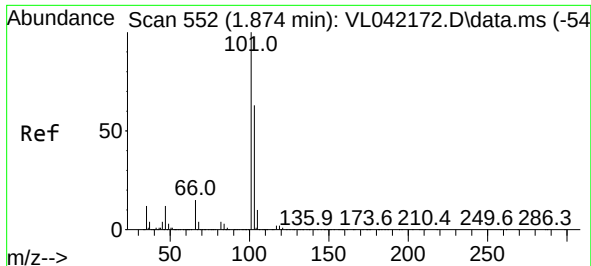
Tgt Ion: 41 Resp: 58893  
Ion Ratio Lower Upper  
41 100  
42 65.3 55.4 83.2



#10  
Heptane  
Concen: 0.299 ppbv  
RT: 5.014 min Scan# 1522  
Delta R.T. 0.042 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Tgt Ion: 43 Resp: 10399  
Ion Ratio Lower Upper  
43 100  
57 0.0 39.4 59.2#

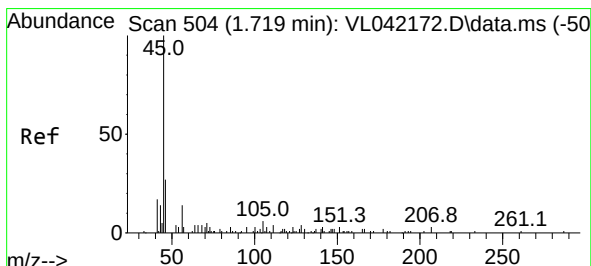
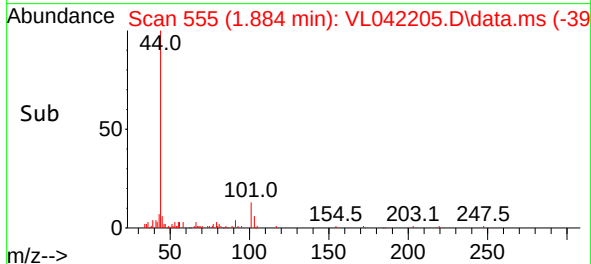
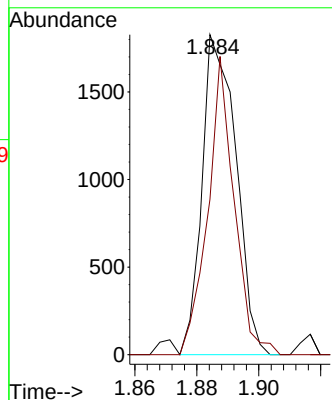
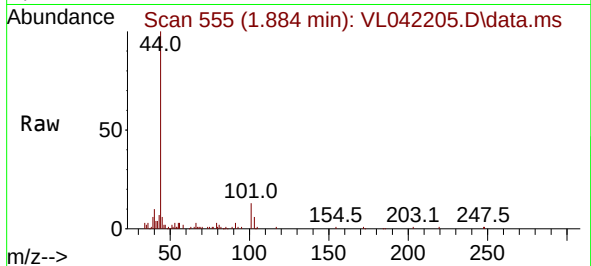




#11  
Trichlorofluoromethane  
Concen: 0.051 ppbv  
RT: 1.884 min Scan# 51  
Delta R.T. 0.010 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

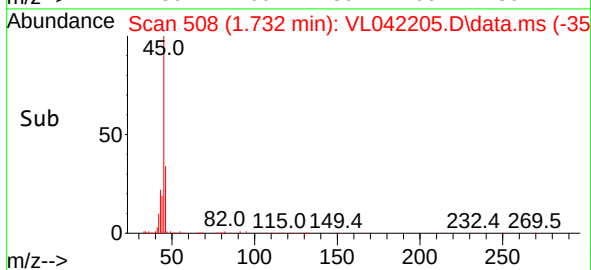
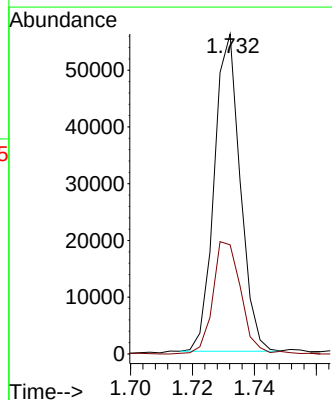
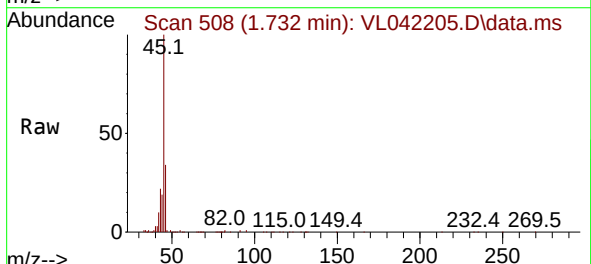
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL

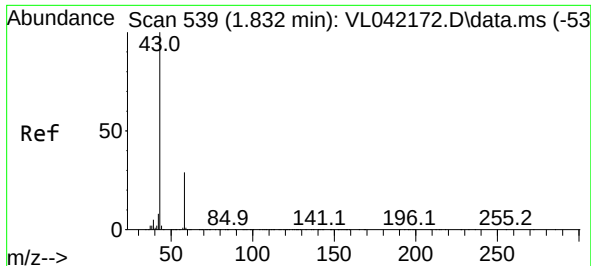
Tgt Ion:101 Resp: 1386  
Ion Ratio Lower Upper  
101 100  
103 52.1 50.2 75.2



#13  
Ethanol  
Concen: 26.380 ppbv  
RT: 1.732 min Scan# 508  
Delta R.T. 0.013 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Tgt Ion: 45 Resp: 32574  
Ion Ratio Lower Upper  
45 100  
46 39.1 20.2 80.8

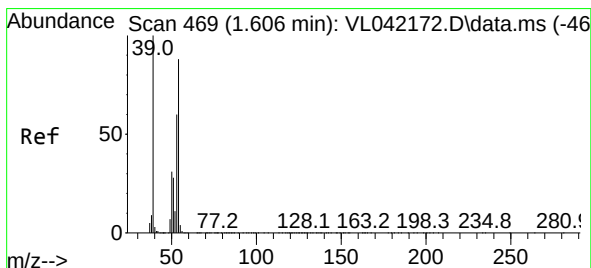
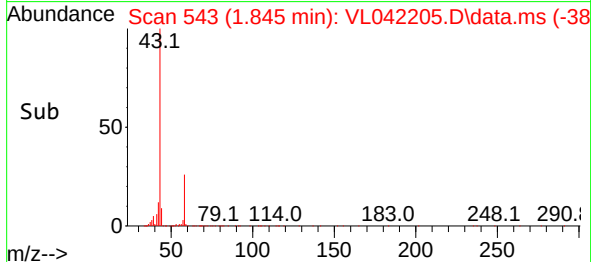
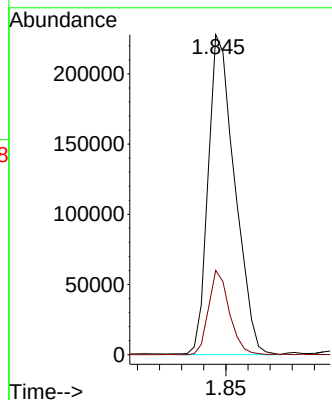
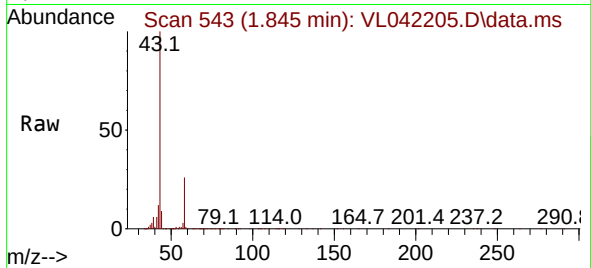




#15  
Acetone  
Concen: 7.209 ppbv  
RT: 1.845 min Scan# 54  
Delta R.T. 0.013 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

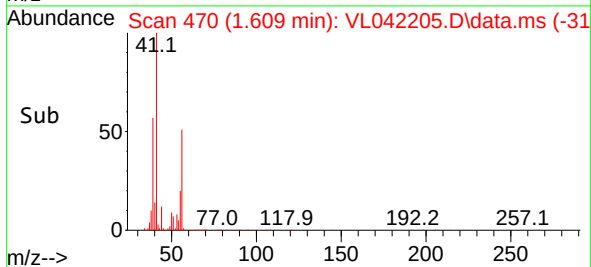
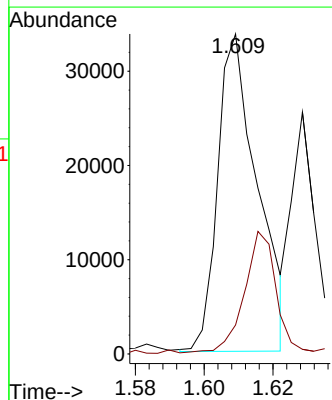
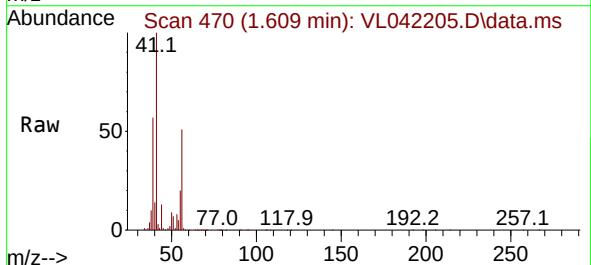
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025DL

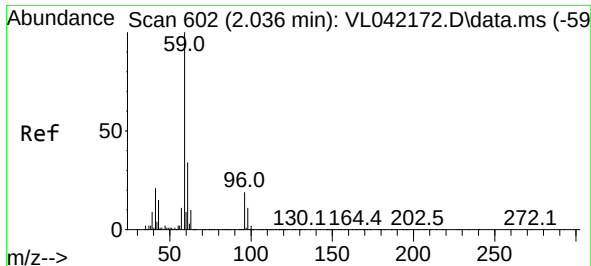
Tgt Ion: 43 Resp: 190475  
Ion Ratio Lower Upper  
43 100  
58 20.7 23.2 34.8#



#16  
1,3-Butadiene  
Concen: 2.089 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. 0.003 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Tgt Ion: 39 Resp: 26963  
Ion Ratio Lower Upper  
39 100  
54 33.3 60.7 91.1#

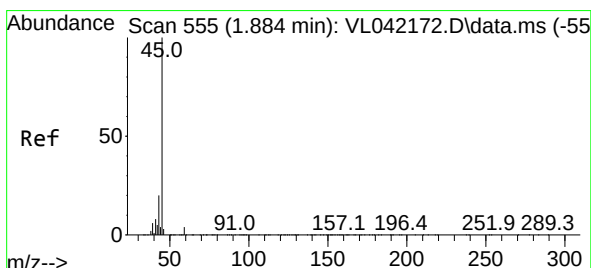
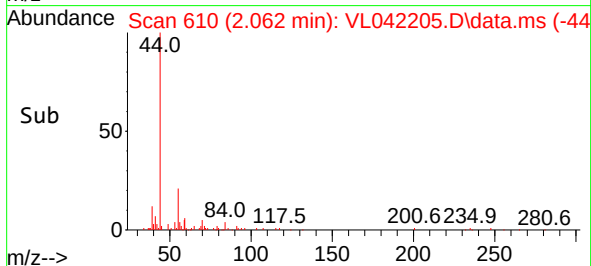
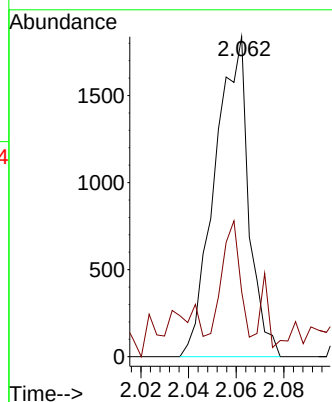
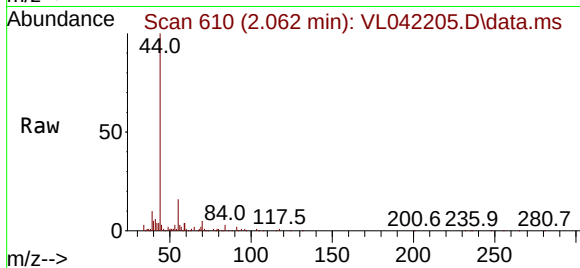




#17  
tert-Butyl alcohol  
Concen: 0.055 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.026 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

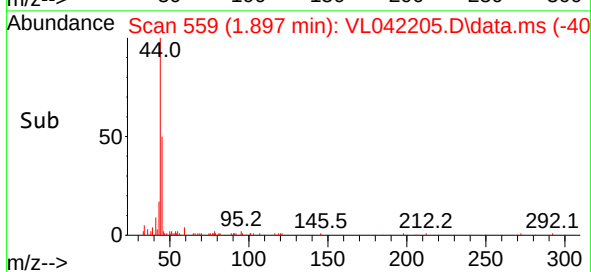
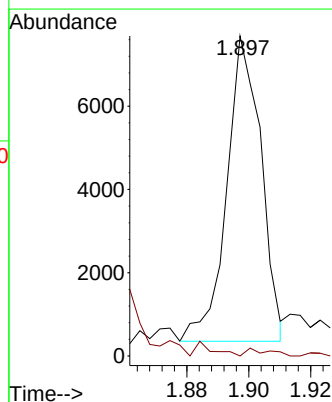
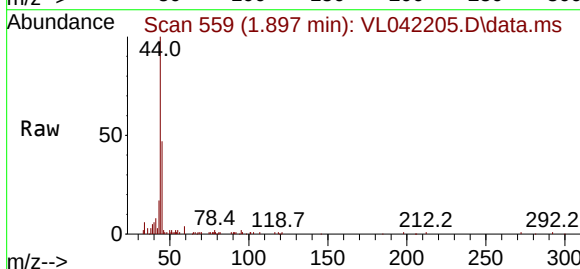
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025DL

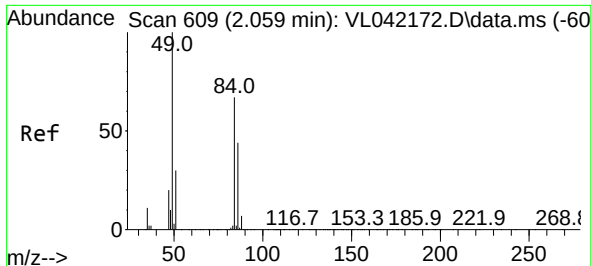
Tgt Ion: 59 Resp: 1819  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.9 13.3#



#19  
Isopropyl Alcohol  
Concen: 0.380 ppbv  
RT: 1.897 min Scan# 559  
Delta R.T. 0.013 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Tgt Ion: 45 Resp: 5660  
Ion Ratio Lower Upper  
45 100  
58 698.4 36.9 55.3#

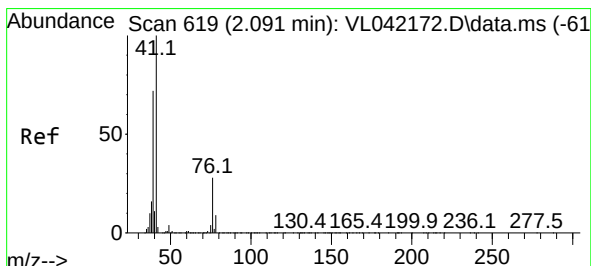
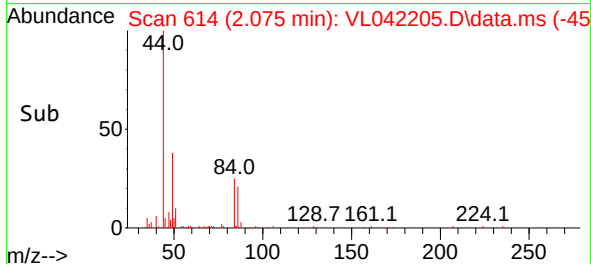
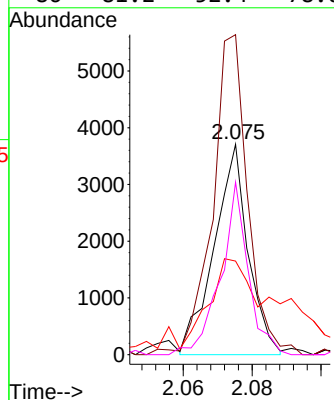
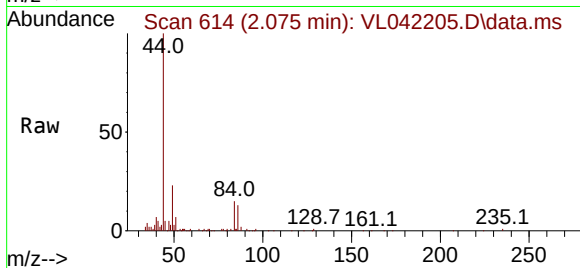




#20  
Methylene Chloride  
Concen: 0.259 ppbv  
RT: 2.075 min Scan# 614  
Delta R.T. 0.016 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

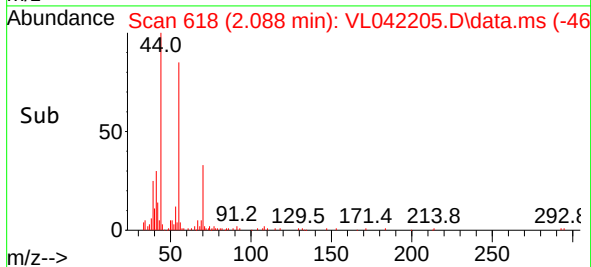
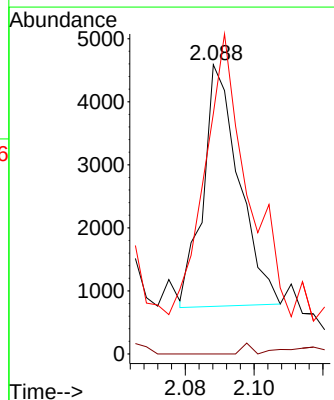
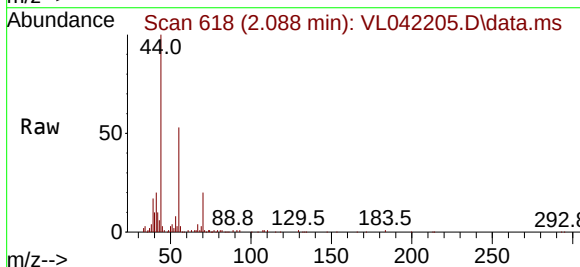
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MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025DL

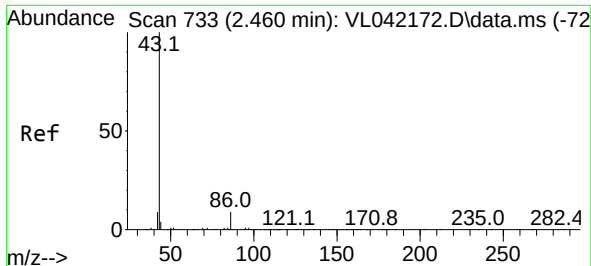
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 2549  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 152.5 | 120.2 | 180.4 |
| 51       | 43.9  | 37.4  | 56.0  |
| 86       | 81.2  | 52.4  | 78.6  |



#21  
Allyl Chloride  
Concen: 0.150 ppbv  
RT: 2.088 min Scan# 618  
Delta R.T. -0.003 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

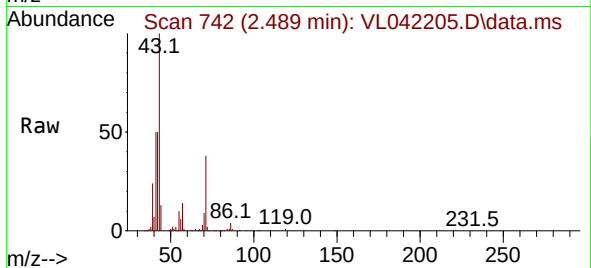
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 2790  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 9.9   | 24.1  | 36.1  |
| 39       | 204.9 | 61.1  | 91.7  |



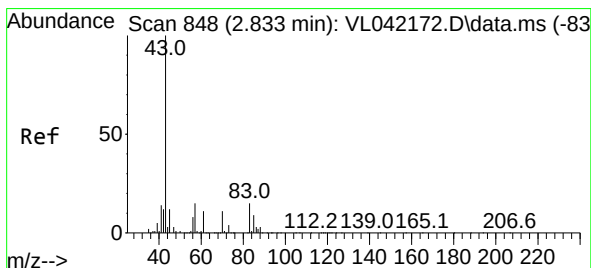
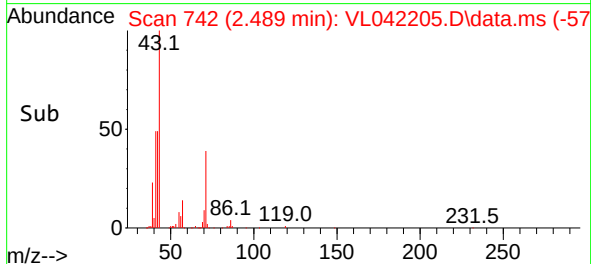
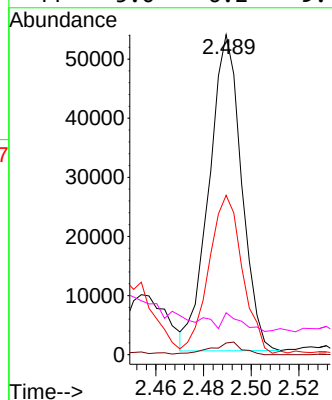


#23  
Vinyl Acetate  
Concen: 4.422 ppbv  
RT: 2.489 min Scan# 741  
Delta R.T. 0.029 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025DL

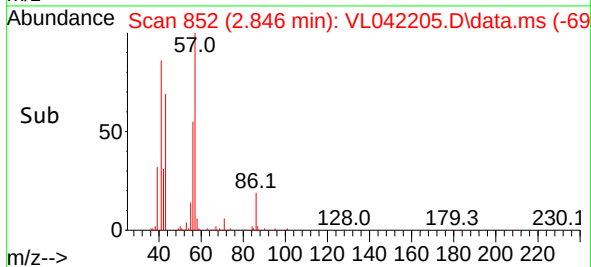
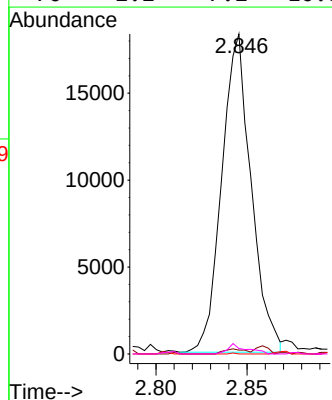
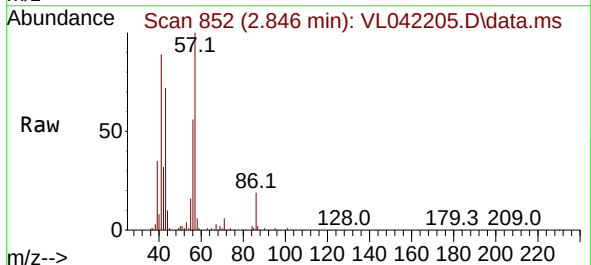


|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 50576 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 3.7   | 5.5   | 8.3#  |
| 42       | 49.3  | 8.6   | 13.0# |
| 44       | 5.0   | 6.2   | 9.4#  |

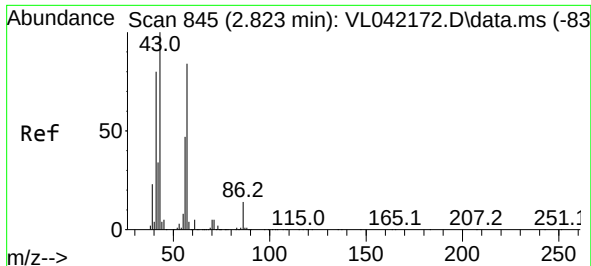


#25  
Ethyl Acetate  
Concen: 0.299 ppbv  
RT: 2.846 min Scan# 852  
Delta R.T. 0.013 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 20526 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 2.4   | 8.2   | 12.2# |
| 61       | 0.3   | 7.3   | 10.9# |
| 70       | 2.2   | 7.2   | 10.8# |

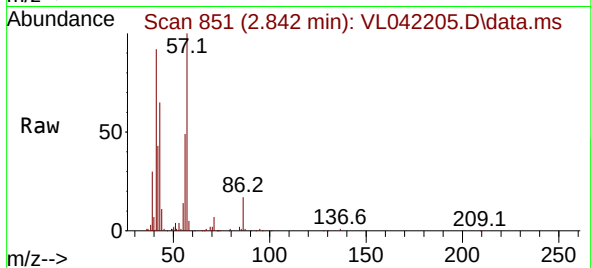




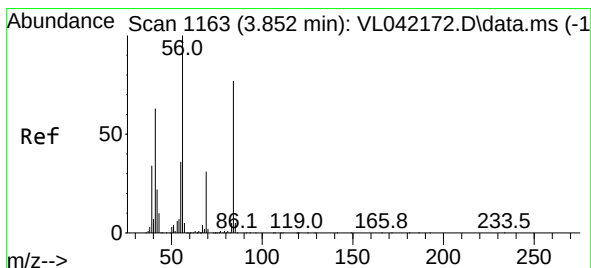
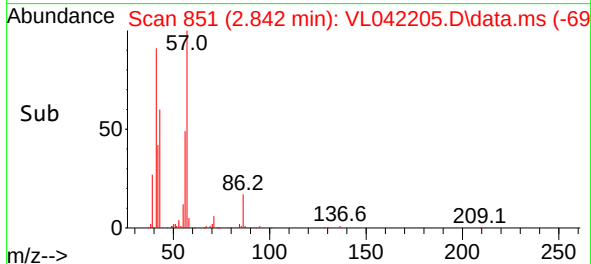
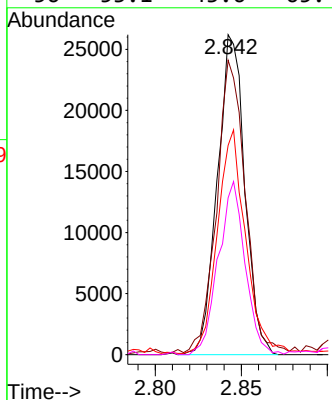


#26  
Hexane  
Concen: 1.095 ppbv  
RT: 2.842 min Scan# 81  
Delta R.T. 0.020 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL

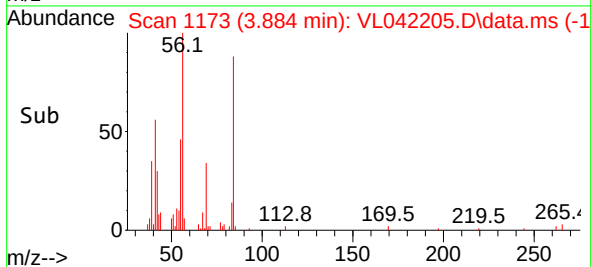
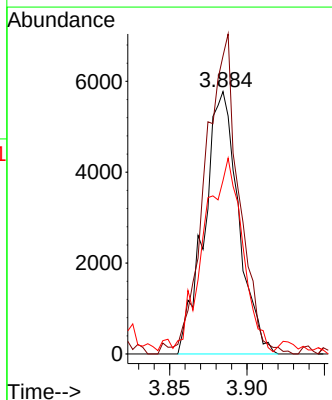
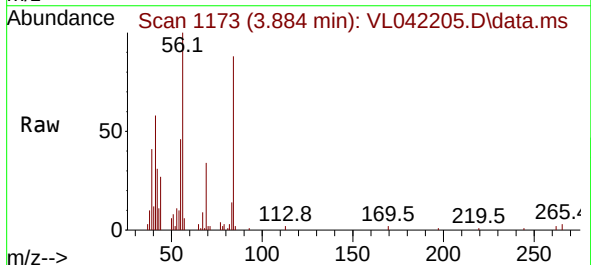


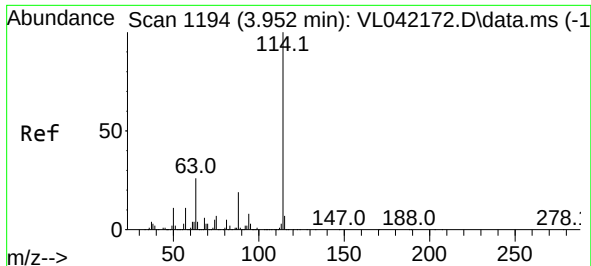
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 29019  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 96.6  | 76.6  | 114.8  |
| 43       | 72.3  | 207.8 | 311.8# |
| 56       | 53.1  | 43.6  | 65.4   |



#30  
Cyclohexane  
Concen: 0.386 ppbv  
RT: 3.884 min Scan# 1173  
Delta R.T. 0.032 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 8868  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 56       | 121.7 | 102.8 | 154.2 |
| 41       | 84.5  | 66.5  | 99.7  |

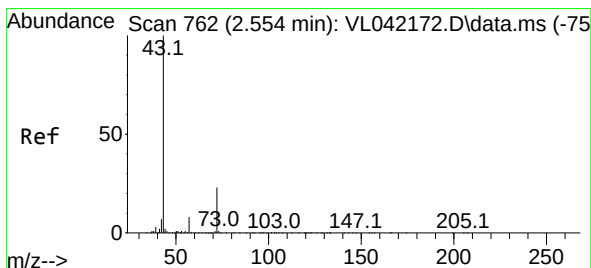
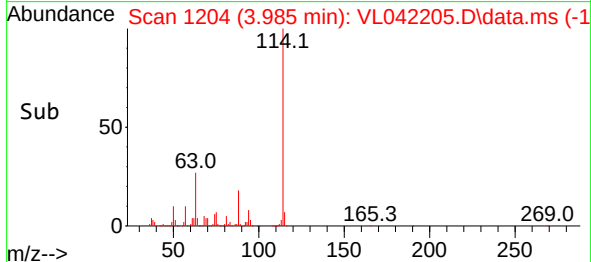
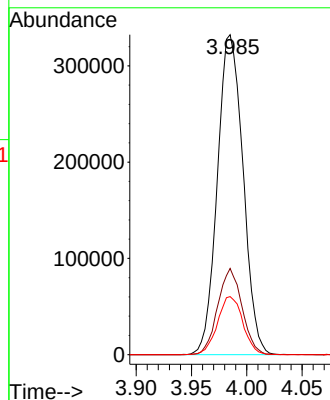
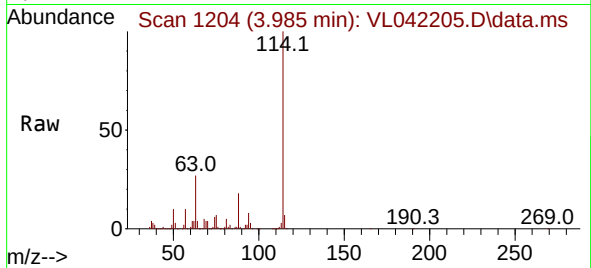




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.985 min Scan# 1194  
Delta R.T. 0.032 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

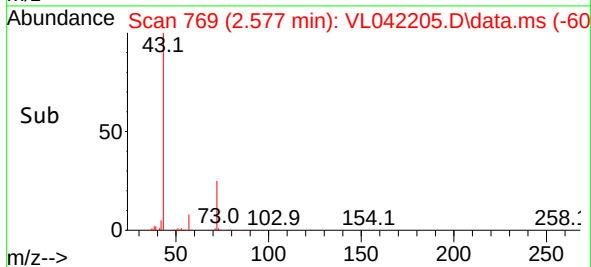
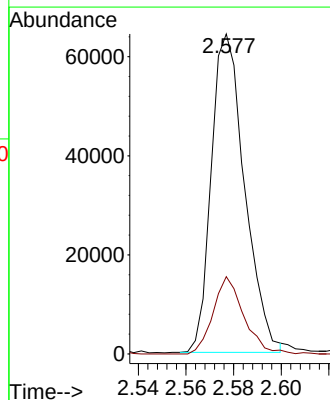
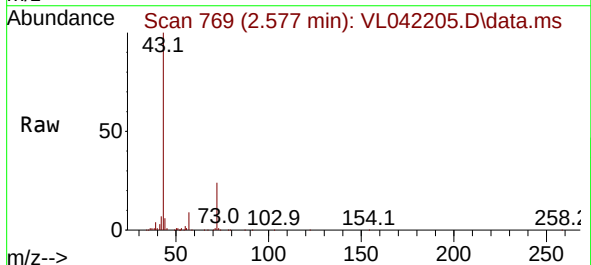
Instrument : MSVOA\_L  
ClientSampleId : SSSG-DUP-1-3262025DL

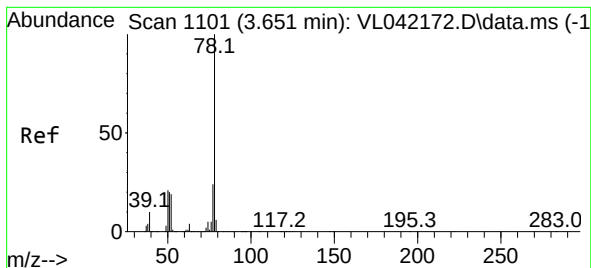
Tgt Ion:114 Resp: 537109  
Ion Ratio Lower Upper  
114 100  
63 25.5 20.7 31.1  
88 17.9 15.0 22.4



#34  
2-Butanone  
Concen: 1.603 ppbv  
RT: 2.577 min Scan# 769  
Delta R.T. 0.023 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Tgt Ion: 43 Resp: 62430  
Ion Ratio Lower Upper  
43 100  
72 22.4 18.2 27.2





#36

Benzene

Concen: 1.432 ppbv

RT: 3.681 min Scan# 1110

Delta R.T. 0.029 min

Lab File: VL042205.D

Acq: 31 Mar 2025 11:52

Instrument :

MSVOA\_L

ClientSampleId :

SSSG-DUP-1-3262025DL

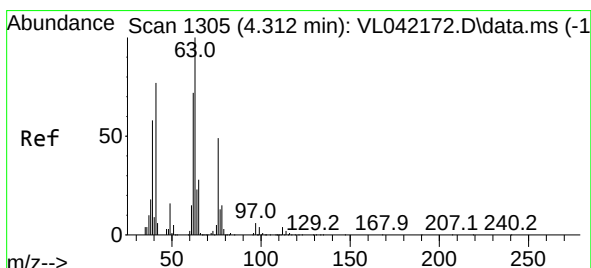
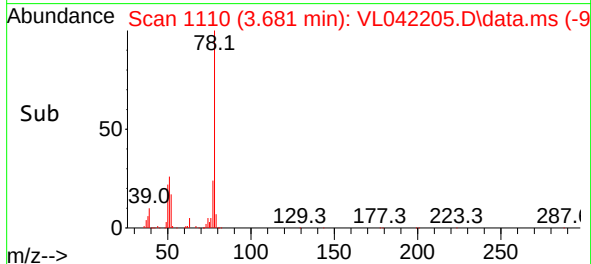
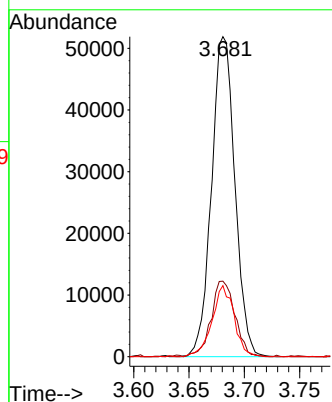
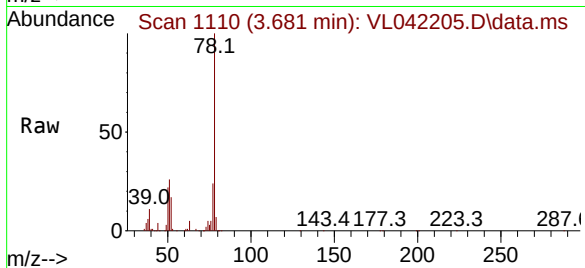
Tgt Ion: 78 Resp: 76263

Ion Ratio Lower Upper

78 100

77 23.5 19.1 28.7

50 22.2 16.6 24.8



#39

1,2-Dichloropropane

Concen: 7.057 ppbv

RT: 3.985 min Scan# 1204

Delta R.T. -0.327 min

Lab File: VL042205.D

Acq: 31 Mar 2025 11:52

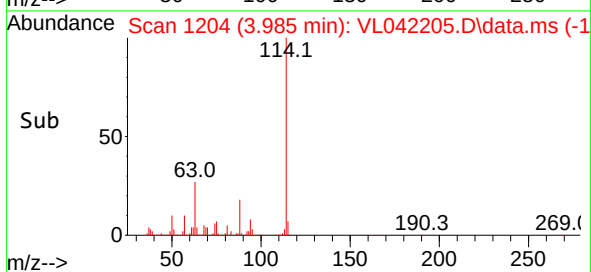
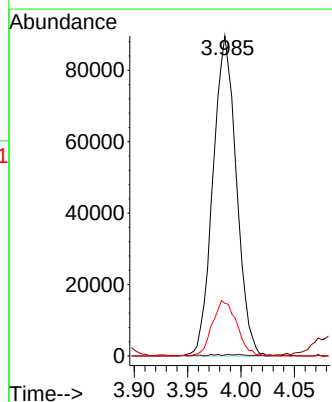
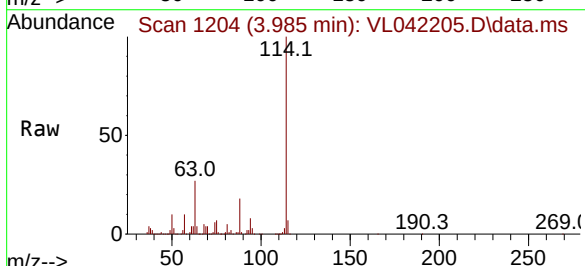
Tgt Ion: 63 Resp: 136854

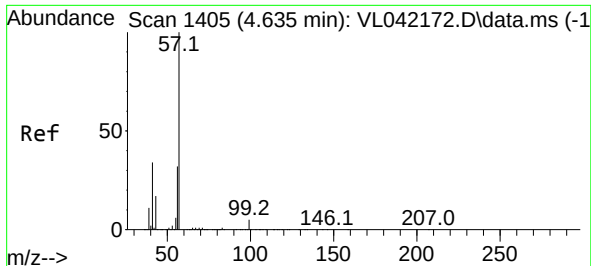
Ion Ratio Lower Upper

63 100

41 0.2 61.7 92.5#

62 16.4 57.6 86.4#

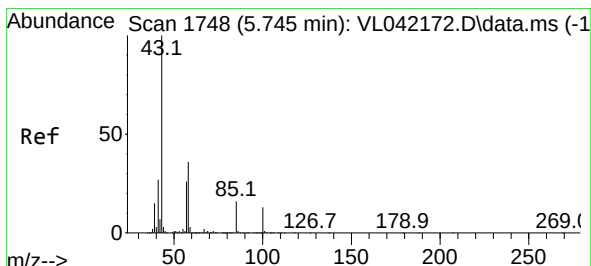
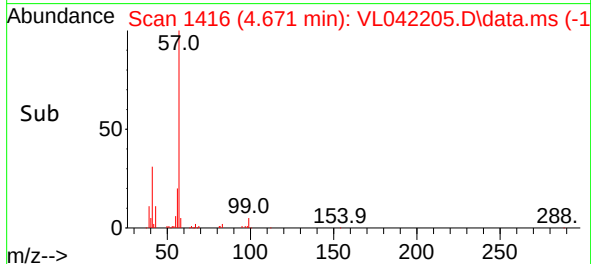
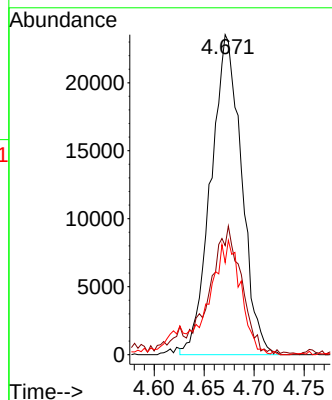
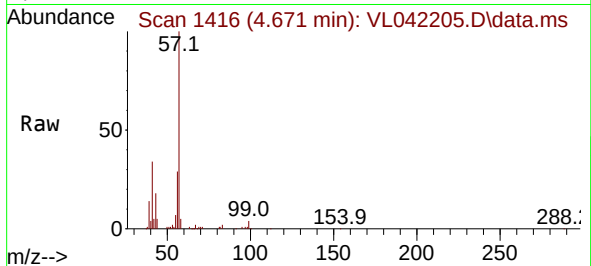




#44  
2,2,4-Trimethylpentane  
Concen: 0.558 ppbv  
RT: 4.671 min Scan# 1416  
Delta R.T. 0.036 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

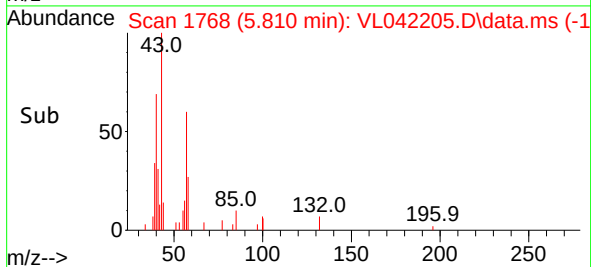
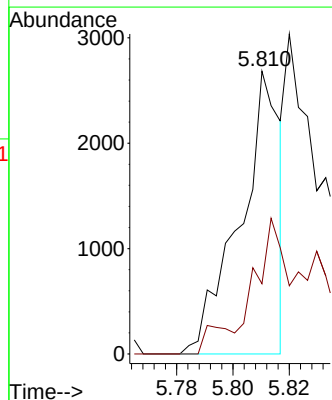
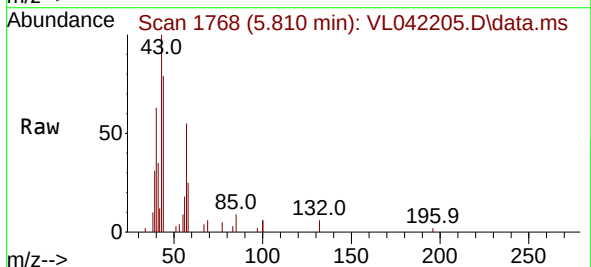
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL

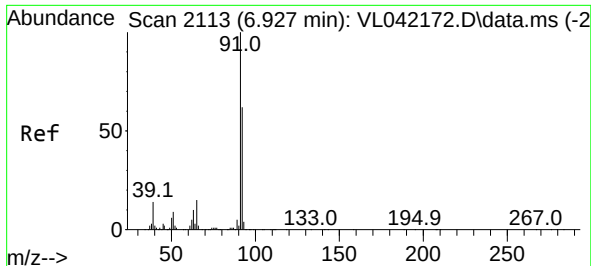
| Tgt Ion: | 57    | Resp: | 50242 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 47.6  | 26.8  | 40.2# |
| 56       | 41.9  | 25.6  | 38.4# |



#50  
4-Methyl-2-Pentanone  
Concen: 0.043 ppbv  
RT: 5.810 min Scan# 1768  
Delta R.T. 0.065 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

| Tgt Ion: | 43    | Resp: | 2646  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 86.8  | 29.0  | 43.6# |

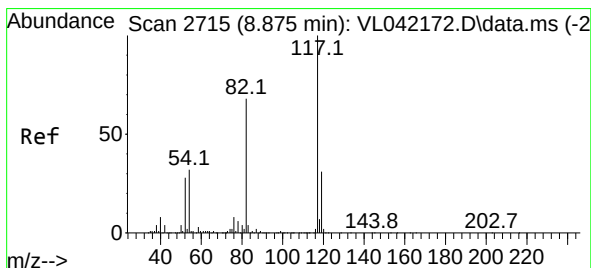
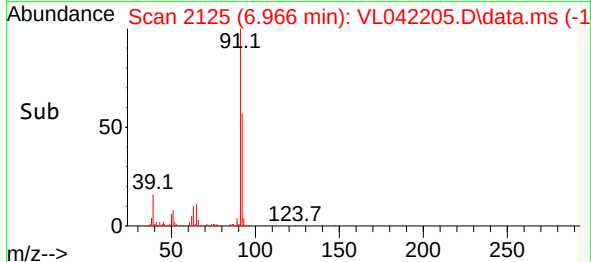
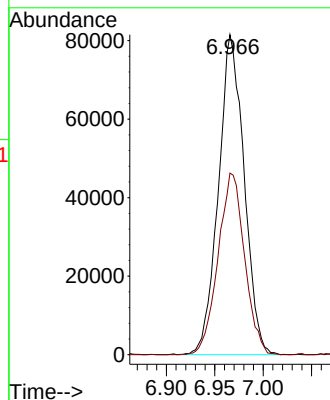
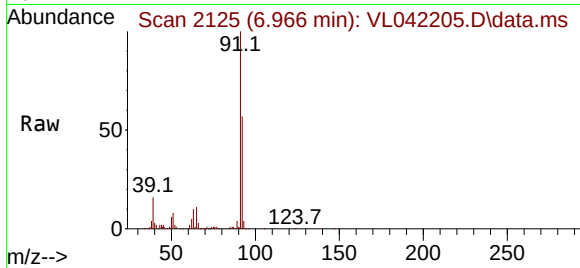




#53  
Toluene  
Concen: 2.381 ppbv  
RT: 6.966 min Scan# 2113  
Delta R.T. 0.039 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

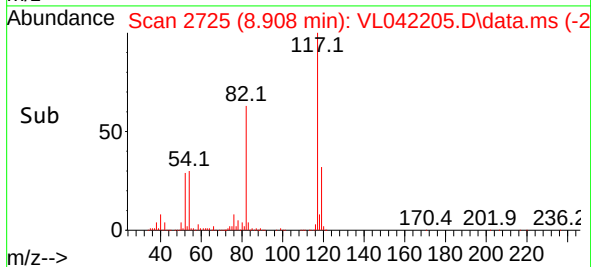
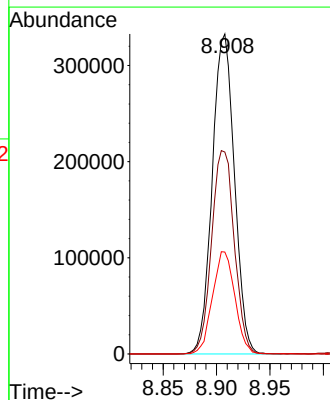
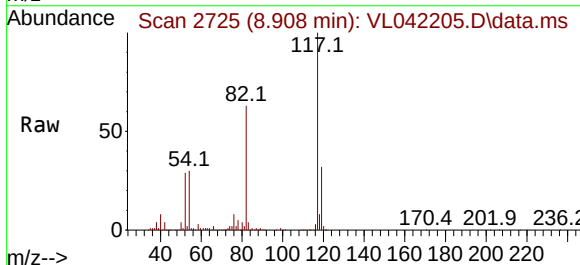
Instrument :  
MSVOA\_L  
ClientSampleId :  
SSSG-DUP-1-3262025DL

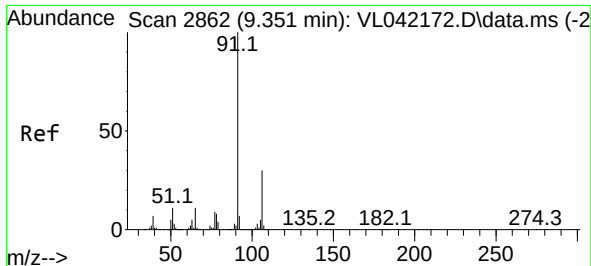
Tgt Ion: 91 Resp: 150266  
Ion Ratio Lower Upper  
91 100  
92 58.7 48.4 72.6



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.908 min Scan# 2725  
Delta R.T. 0.032 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Tgt Ion: 117 Resp: 480959  
Ion Ratio Lower Upper  
117 100  
82 65.1 55.8 83.6  
119 32.3 25.5 38.3





#58

Ethyl Benzene

Concen: 0.322 ppbv

RT: 9.377 min Scan# 21

Delta R.T. 0.026 min

Lab File: VL042205.D

Acq: 31 Mar 2025 11:52

Instrument :

MSVOA\_1

ClientSampleId :

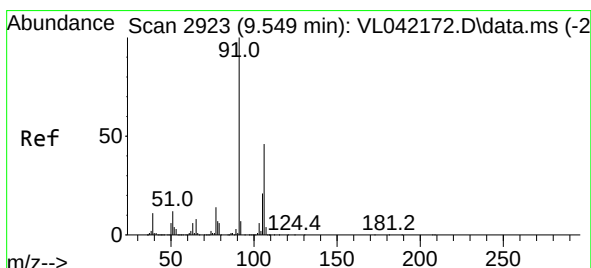
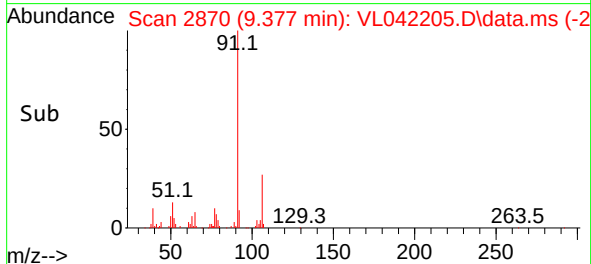
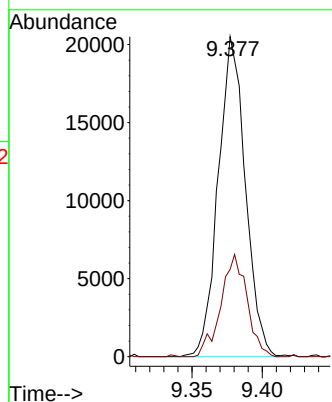
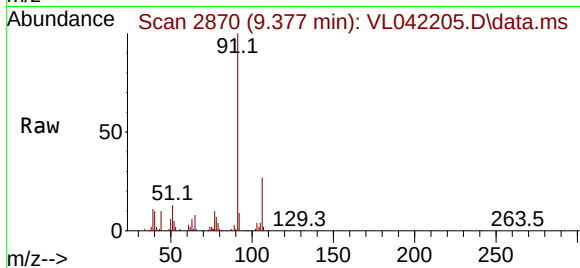
SSSG-DUP-1-3262025DL

Tgt Ion: 91 Resp: 27471

Ion Ratio Lower Upper

91 100

106 27.3 24.2 36.2



#59

m/p-Xylene

Concen: 1.195 ppbv

RT: 9.555 min Scan# 2925

Delta R.T. 0.007 min

Lab File: VL042205.D

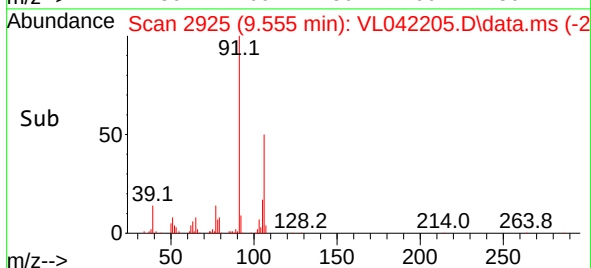
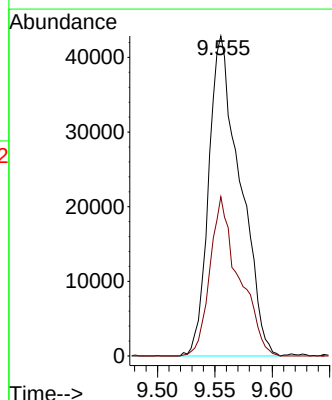
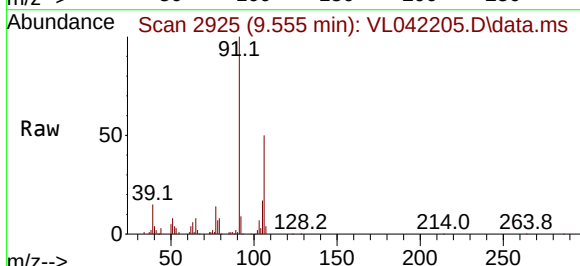
Acq: 31 Mar 2025 11:52

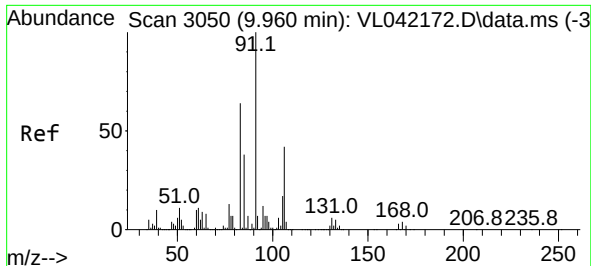
Tgt Ion: 91 Resp: 81487

Ion Ratio Lower Upper

91 100

106 46.0 36.4 54.6

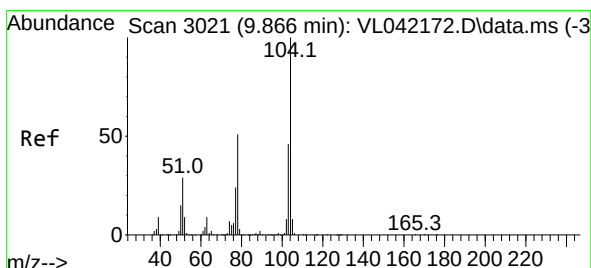
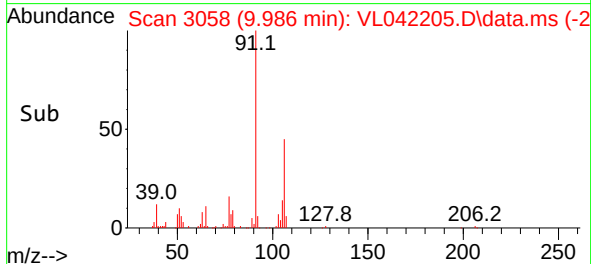
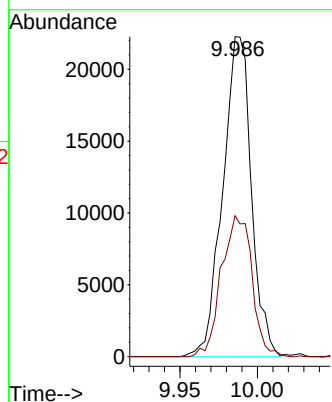
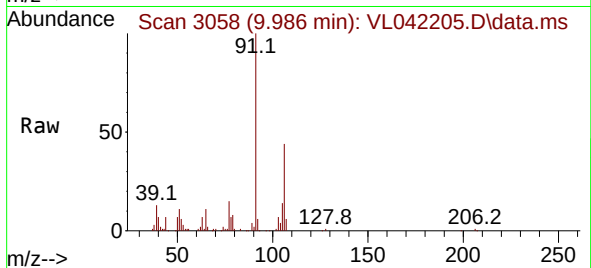




#60  
o-Xylene  
Concen: 0.419 ppbv  
RT: 9.986 min Scan# 3058  
Delta R.T. 0.026 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

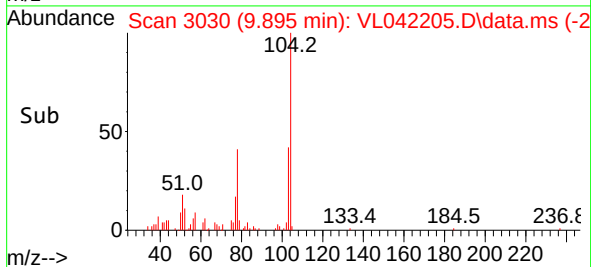
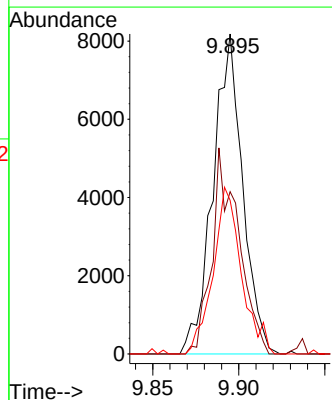
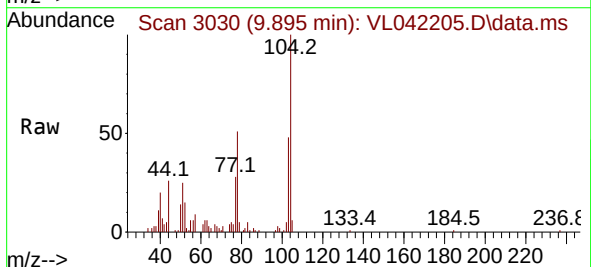
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025DL

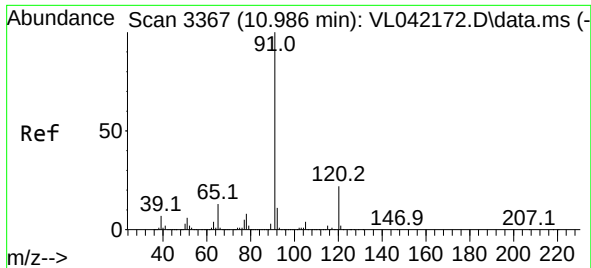
Tgt Ion: 91 Resp: 28632  
Ion Ratio Lower Upper  
91 100  
106 47.0 20.8 62.5



#61  
Styrene  
Concen: 0.291 ppbv  
RT: 9.895 min Scan# 3030  
Delta R.T. 0.029 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Tgt Ion: 104 Resp: 9837  
Ion Ratio Lower Upper  
104 100  
78 59.0 41.8 62.6  
103 50.2 37.0 55.4

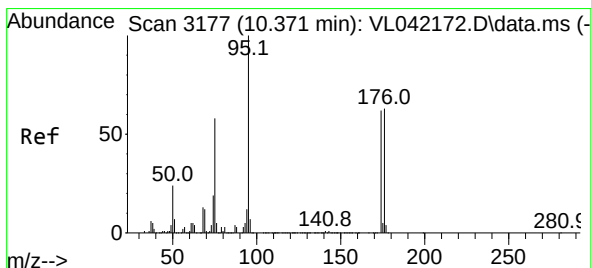
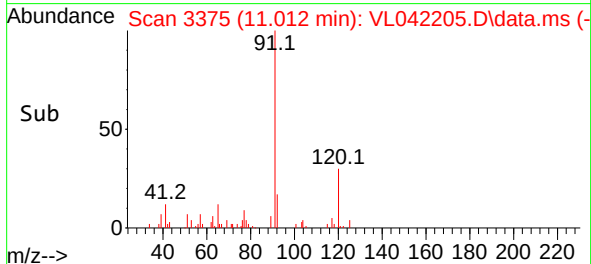
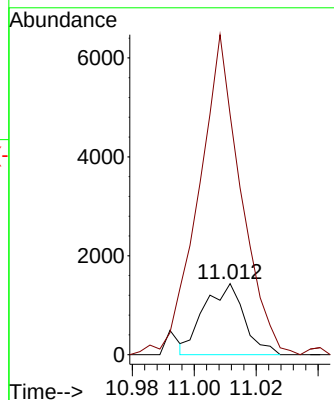
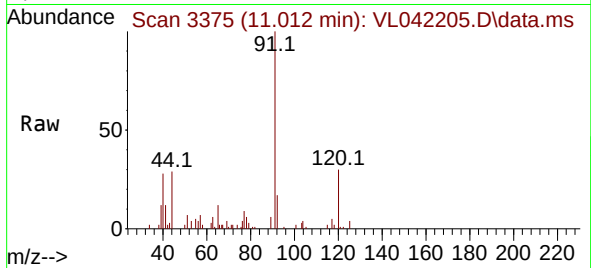




#64  
n-propylbenzene  
Concen: 0.049 ppbv  
RT: 11.012 min Scan# 3185  
Delta R.T. 0.026 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

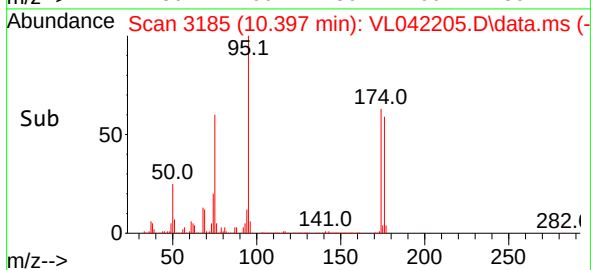
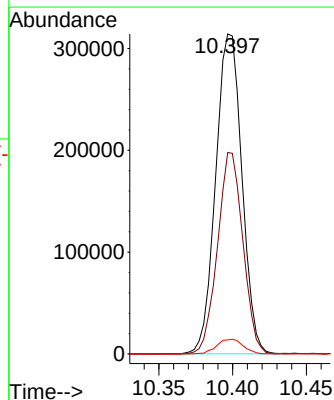
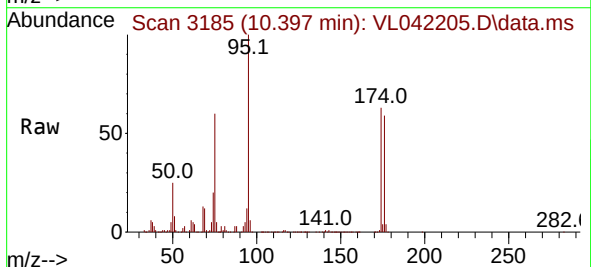
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025DL

Tgt Ion:120 Resp: 1291  
Ion Ratio Lower Upper  
120 100  
91 483.0 376.9 565.3

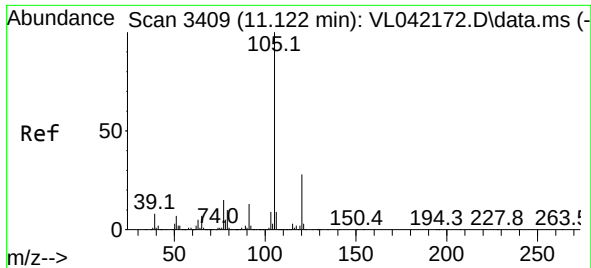


#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.841 ppbv  
RT: 10.397 min Scan# 3185  
Delta R.T. 0.026 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Tgt Ion: 95 Resp: 388692  
Ion Ratio Lower Upper  
95 100  
174 61.0 50.6 76.0  
175 4.7 3.8 5.6



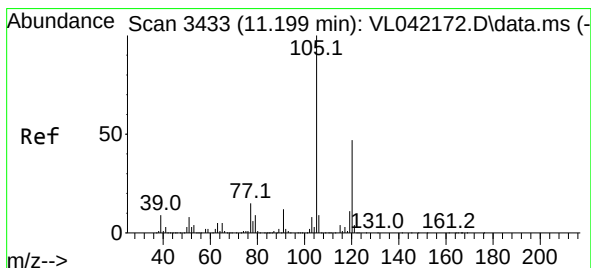
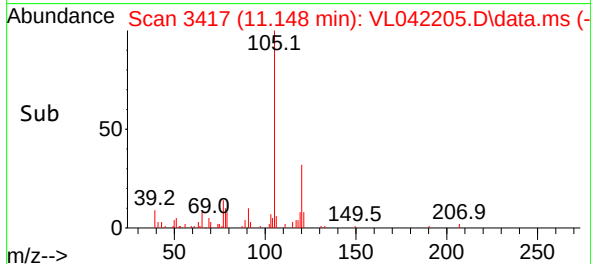
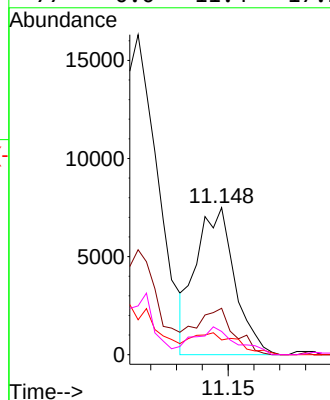
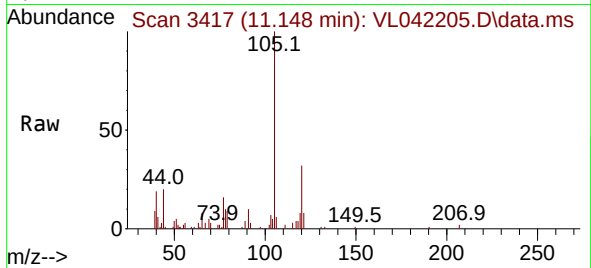




#72  
4-Ethyltoluene  
Concen: 0.092 ppbv  
RT: 11.148 min Scan# 3409  
Delta R.T. 0.026 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

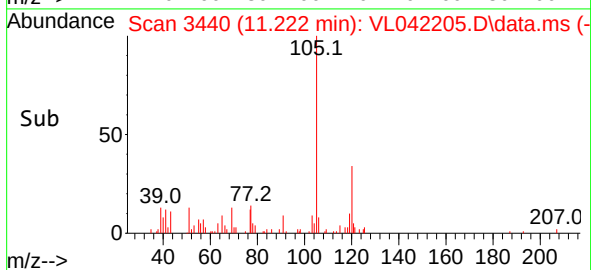
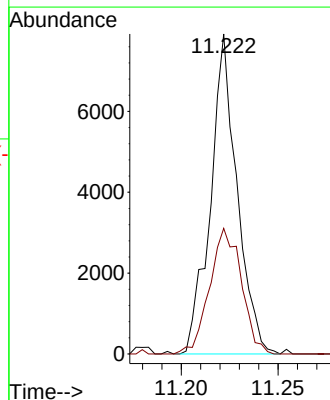
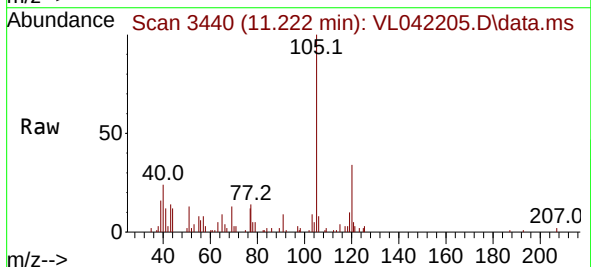
Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025DL

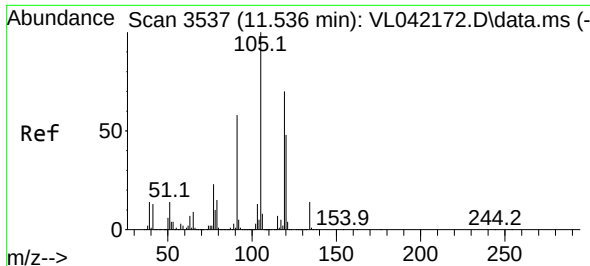
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:105 | Resp: | 7817       |
| Ion Ratio   | Lower | Upper      |
| 105         | 100   |            |
| 120         | 0.0   | 23.4 35.0# |
| 91          | 0.0   | 10.3 15.5# |
| 77          | 0.0   | 11.4 17.2# |



#73  
1,3,5-Trimethylbenzene  
Concen: 0.102 ppbv  
RT: 11.222 min Scan# 3440  
Delta R.T. 0.023 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:105 | Resp: | 7557      |
| Ion Ratio   | Lower | Upper     |
| 105         | 100   |           |
| 120         | 39.3  | 37.4 56.0 |

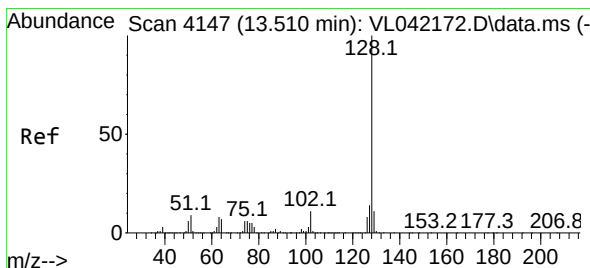
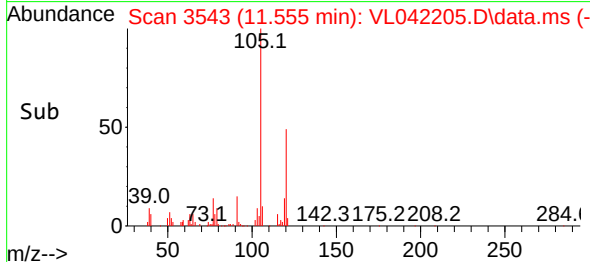
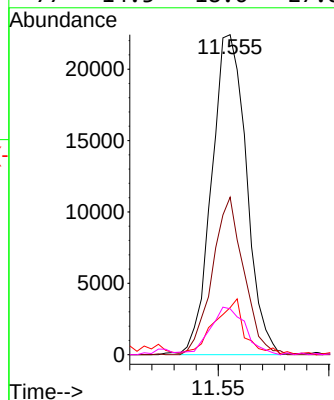
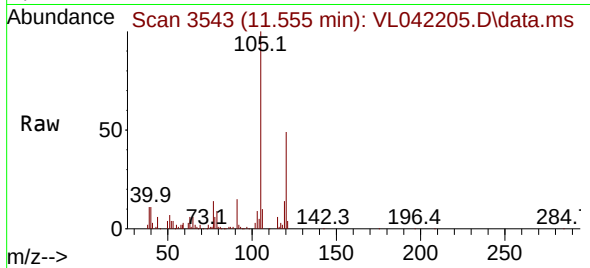




#74  
1,2,4-Trimethylbenzene  
Concen: 0.285 ppbv  
RT: 11.555 min Scan# 31  
Delta R.T. 0.019 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

Instrument :  
MSVOA\_1  
ClientSampleId :  
SSSG-DUP-1-3262025DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 24393 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 49.2  | 38.6  | 58.0  |
| 91       | 14.3  | 46.2  | 69.2# |
| 77       | 14.3  | 18.6  | 27.8# |



#79  
Naphthalene  
Concen: 0.070 ppbv  
RT: 13.530 min Scan# 4153  
Delta R.T. 0.020 min  
Lab File: VL042205.D  
Acq: 31 Mar 2025 11:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 6586  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.7  | 10.8  | 16.2  |
| 129      | 9.4   | 9.0   | 13.4  |

