

## **DATA PACKAGE VOLATILE ORGANICS**

**PROJECT NAME : NJ AIR PT**

**CHEMTECH CONSULTING GROUP**

**284 Sheffield St,**

**Mountainside, NJ - 07092**

**Phone No: 908-789-8900**

**ORDER ID : P4633**

**ATTENTION : QA Officer**



**Laboratory Certification ID # 20012**



|                                              |     |
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**Order ID :** P4633

**Project ID :** NJ Air PT

**Client :** Chemtech Consulting Group

**Lab Sample Number**

P4633-01

**Client Sample Number**

E070-1100

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

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

Date: 12/3/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012





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| Page       | 1 of 1     |

## Packing Slip

### Bill To:

ChemTech Consulting GP  
284 Sheffield St  
Mountainside, NJ, USA 07092-2319

Accounts Payable

### Ship To:

ChemTech Consulting GP  
284 Sheffield St  
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Sohil Jodhani

Email Address: sohil@chemtech.net

Received by: SJ (908) 728-3152

Order Comments:

10/30/2024  
10:00



\*1698937\*

| Cust Svc Rep |       | Payment Terms                | Shipping Method | Purchase Order # | Order #   |         |
|--------------|-------|------------------------------|-----------------|------------------|-----------|---------|
|              |       | NET 30                       | FEDEX ECON      | 240918-01        | 00180283  |         |
| QTY          | CAT # | Product                      |                 | Type             | Lot #     | Study # |
| 1            | 1000  | Volatiles in Gas Cylinder    |                 | PT               | E070-1100 | AE 070  |
| 1            | HAZ   | UN Packaging / Haz Surcharge |                 | MISC             | HAZ       |         |

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**094106**

**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       |

## **CASE NARRATIVE**

### **Chemtech Consulting Group**

**Project Name: NJ Air PT**

**Project # N/A**

**Chemtech Project # P4633**

**Test Name: VOCMS Group3**

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

1 Air sample was received on 10/30/2024.

#### **B. Parameters**

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

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

The analysis performed on instrument MSVOA\_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 VOCMS Group3 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 {P4911-02DUP} with File ID: VL041706.D met criteria except for m/p-Xylene[200%] due to difference in results of original and DUP.

The Blank Spike for {VL1120ABS01} with File ID: VL041699.D met requirements for all samples except for Naphthalene[131%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for {VL1121ABS01} with File ID: VL041713.D met requirements for all samples except for 1,1,2,2-Tetrachloroethane[59%], Benzyl Chloride[62%], Ethanol[50%], Naphthalene[133%] and Trichloroethene[143%] , Only dilution samples analyzed under this blank spike and dilution is not required for failing analytes, Therefore no further corrective action was taken.

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

The Initial Calibration met the requirements except for Naphthalene have more than 30% RSD in the Initial Calibration with dated 11/07/2024 with L Instrument but as per method two compounds as allowed to be fail.

The Continuous Calibration File ID VL041697.D met the requirements except for Naphthalene is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VL041711.D met the requirements except for Dichlorodifluoromethane failing low and Naphthalene failing high, this CCC use for only dilutions samples and dilution is not required for failing analytes, Therefore no further corrective action was taken.

The Tuning criteria met requirements.

Samples E070-1100, E070-1100DL were diluted due to high concentrations.

#### E. Additional Comments:

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

The not QT review data is reported in the Miscellaneous.

The Manual Integrations are performed for the followings:

| Manual Integration Report |          |            |         |
|---------------------------|----------|------------|---------|
| Sequence                  | vl110724 | Instrument | MSVOA_I |

|             |            |                          |          |                            |     |                             |                                         |
|-------------|------------|--------------------------|----------|----------------------------|-----|-----------------------------|-----------------------------------------|
| VSTDICCC010 | VL041674.D | Chlorobenzene-d5         | MMDadoda | 11/9/2024<br>3:47:24<br>AM | SAM | 11/9/2024<br>10:41:41<br>AM | Peak Integrated by Software incorrectly |
| VSTDICCC010 | VL041674.D | Ethanol                  | MMDadoda | 11/9/2024<br>3:47:24<br>AM | SAM | 11/9/2024<br>10:41:41<br>AM | Peak Integrated by Software incorrectly |
| VSTDICCC010 | VL041674.D | Hexachloro-1,3-Butadiene | MMDadoda | 11/9/2024<br>3:47:24<br>AM | SAM | 11/9/2024<br>10:41:41<br>AM | Peak Integrated by Software incorrectly |
| VSTDICCC010 | VL041674.D | m/p-Xylene               | MMDadoda | 11/9/2024<br>3:47:24<br>AM | SAM | 11/9/2024<br>10:41:41<br>AM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL041675.D | 1,1,2-Trichloroethane    | MMDadoda | 11/9/2024<br>3:47:25<br>AM | SAM | 11/9/2024<br>10:41:47<br>AM | Peak Integrated by Software incorrectly |

|            |            |                              |          |                            |     |                             |                                                  |
|------------|------------|------------------------------|----------|----------------------------|-----|-----------------------------|--------------------------------------------------|
| VSTDICC002 | VL041675.D | 1,4-Dioxane                  | MMDadoda | 11/9/2024<br>3:47:25<br>AM | SAM | 11/9/2024<br>10:41:47<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDICC002 | VL041675.D | Benzyl Chloride              | MMDadoda | 11/9/2024<br>3:47:25<br>AM | SAM | 11/9/2024<br>10:41:47<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDICC002 | VL041675.D | Ethanol                      | MMDadoda | 11/9/2024<br>3:47:25<br>AM | SAM | 11/9/2024<br>10:41:47<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDICC002 | VL041675.D | m/p-Xylene                   | MMDadoda | 11/9/2024<br>3:47:25<br>AM | SAM | 11/9/2024<br>10:41:47<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDICC002 | VL041675.D | Tetrachloroethene            | MMDadoda | 11/9/2024<br>3:47:25<br>AM | SAM | 11/9/2024<br>10:41:47<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDICC001 | VL041676.D | 1,2,4-<br>Trichlorobenzene   | MMDadoda | 11/9/2024<br>3:47:27<br>AM | SAM | 11/9/2024<br>10:42:37<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDICC001 | VL041676.D | 1,3-Butadiene                | MMDadoda | 11/9/2024<br>3:47:27<br>AM | SAM | 11/9/2024<br>10:42:37<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDICC001 | VL041676.D | 1,4-Dioxane                  | MMDadoda | 11/9/2024<br>3:47:27<br>AM | SAM | 11/9/2024<br>10:42:37<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDICC001 | VL041676.D | Benzyl Chloride              | MMDadoda | 11/9/2024<br>3:47:27<br>AM | SAM | 11/9/2024<br>10:42:37<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDICC001 | VL041676.D | Bromoform                    | MMDadoda | 11/9/2024<br>3:47:27<br>AM | SAM | 11/9/2024<br>10:42:37<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDICC001 | VL041676.D | Hexachloro-1,3-<br>Butadiene | MMDadoda | 11/9/2024<br>3:47:27<br>AM | SAM | 11/9/2024<br>10:42:37<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDICC001 | VL041676.D | m/p-Xylene                   | MMDadoda | 11/9/2024<br>3:47:27<br>AM | SAM | 11/9/2024<br>10:42:37<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDICC001 | VL041676.D | Naphthalene                  | MMDadoda | 11/9/2024<br>3:47:27<br>AM | SAM | 11/9/2024<br>10:42:37<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDICC001 | VL041676.D | Naphthalene,2-<br>methyl-    | MMDadoda | 11/9/2024<br>3:47:27       | SAM | 11/9/2024<br>10:42:37       | Peak<br>Integrated                               |

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|------------|------------|---------------------------|----------|----------------------|-----|-----------------------|-----------------------------------------|
|            |            |                           |          | AM                   |     | AM                    | by Software incorrectly                 |
| VSTDICC001 | VL041676.D | t-1,3-Dichloropropene     | MMDadoda | 11/9/2024 3:47:27 AM | SAM | 11/9/2024 10:42:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL041676.D | trans-1,2-Dichloroethene  | MMDadoda | 11/9/2024 3:47:27 AM | SAM | 11/9/2024 10:42:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC001 | VL041676.D | Vinyl Acetate             | MMDadoda | 11/9/2024 3:47:27 AM | SAM | 11/9/2024 10:42:37 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL041677.D | 1,1,2-Trichloroethane     | MMDadoda | 11/9/2024 3:47:30 AM | SAM | 11/9/2024 10:42:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL041677.D | Naphthalene,2-methyl-     | MMDadoda | 11/9/2024 3:47:30 AM | SAM | 11/9/2024 10:42:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL041677.D | Styrene                   | MMDadoda | 11/9/2024 3:47:30 AM | SAM | 11/9/2024 10:42:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL041677.D | t-1,3-Dichloropropene     | MMDadoda | 11/9/2024 3:47:30 AM | SAM | 11/9/2024 10:42:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL041677.D | Tetrachloroethene         | MMDadoda | 11/9/2024 3:47:30 AM | SAM | 11/9/2024 10:42:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL041677.D | Tetrahydrofuran           | MMDadoda | 11/9/2024 3:47:30 AM | SAM | 11/9/2024 10:42:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.5 | VL041677.D | Vinyl Acetate             | MMDadoda | 11/9/2024 3:47:30 AM | SAM | 11/9/2024 10:42:45 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL041678.D | 1,1,1-Trichloroethane     | MMDadoda | 11/9/2024 3:47:32 AM | SAM | 11/9/2024 10:41:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL041678.D | 1,1,2,2-Tetrachloroethane | MMDadoda | 11/9/2024 3:47:32 AM | SAM | 11/9/2024 10:41:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1 | VL041678.D | 1,2-Dibromoethane         | MMDadoda | 11/9/2024 3:47:32 AM | SAM | 11/9/2024 10:41:22 AM | Peak Integrated by Software incorrectly |

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|-------------|------------|---------------------------|----------|----------------------|-----|-----------------------|-----------------------------------------|
| VSTDICC0.1  | VL041678.D | Carbon Tetrachloride      | MMDadoda | 11/9/2024 3:47:32 AM | SAM | 11/9/2024 10:41:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1  | VL041678.D | Naphthalene               | MMDadoda | 11/9/2024 3:47:32 AM | SAM | 11/9/2024 10:41:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1  | VL041678.D | Tetrachloroethene         | MMDadoda | 11/9/2024 3:47:32 AM | SAM | 11/9/2024 10:41:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.1  | VL041678.D | Trichloroethene           | MMDadoda | 11/9/2024 3:47:32 AM | SAM | 11/9/2024 10:41:22 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL041679.D | 1,1,1-Trichloroethane     | MMDadoda | 11/9/2024 3:47:49 AM | SAM | 11/9/2024 10:42:51 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL041679.D | 1,1,2,2-Tetrachloroethane | MMDadoda | 11/9/2024 3:47:49 AM | SAM | 11/9/2024 10:42:51 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL041679.D | Carbon Tetrachloride      | MMDadoda | 11/9/2024 3:47:49 AM | SAM | 11/9/2024 10:42:51 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL041679.D | Tetrachloroethene         | MMDadoda | 11/9/2024 3:47:49 AM | SAM | 11/9/2024 10:42:51 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL041679.D | Trichloroethene           | MMDadoda | 11/9/2024 3:47:49 AM | SAM | 11/9/2024 10:42:51 AM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL041679.D | Vinyl Chloride            | MMDadoda | 11/9/2024 3:47:49 AM | SAM | 11/9/2024 10:42:51 AM | Peak Integrated by Software incorrectly |
| VSTDICC015  | VL041680.D | Ethanol                   | MMDadoda | 11/9/2024 3:47:51 AM | SAM | 11/9/2024 10:42:57 AM | Peak Integrated by Software incorrectly |
| VSTDICC015  | VL041680.D | m/p-Xylene                | MMDadoda | 11/9/2024 3:47:51 AM | SAM | 11/9/2024 10:42:57 AM | Peak Integrated by Software incorrectly |
| VSTDICC015  | VL041680.D | Naphthalene, 2-methyl-    | MMDadoda | 11/9/2024 3:47:51 AM | SAM | 11/9/2024 10:42:57 AM | Peak Integrated by Software incorrectly |
| VSTDICV010  | VL041681.D | Chlorobenzene-d5          | MMDadoda | 11/9/2024 3:47:53    | SAM | 11/9/2024 10:43:26    | Peak Integrated                         |

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|------------|------------|------------|----------|----------------------|-----|-----------------------|-----------------------------------------|
|            |            |            |          | AM                   |     | AM                    | by Software incorrectly                 |
| VSTDICV010 | VL041681.D | Ethanol    | MMDadoda | 11/9/2024 3:47:53 AM | SAM | 11/9/2024 10:43:26 AM | Peak Integrated by Software incorrectly |
| VSTDICV010 | VL041681.D | m/p-Xylene | MMDadoda | 11/9/2024 3:47:53 AM | SAM | 11/9/2024 10:43:26 AM | Peak Integrated by Software incorrectly |

|          |          |            |         |
|----------|----------|------------|---------|
| Sequence | VL112024 | Instrument | MSVOA_I |
|----------|----------|------------|---------|

|             |            |                  |     |                       |          |                       |                                         |
|-------------|------------|------------------|-----|-----------------------|----------|-----------------------|-----------------------------------------|
| VSTDCCC010  | VL041697.D | Chlorobenzene-d5 | SAM | 11/21/2024 3:24:19 PM | MMDadoda | 11/21/2024 3:23:37 PM | Peak Integrated by Software incorrectly |
| VSTDCCC010  | VL041697.D | Ethanol          | SAM | 11/21/2024 3:24:19 PM | MMDadoda | 11/21/2024 3:23:37 PM | Peak Integrated by Software incorrectly |
| VSTDCCC010  | VL041697.D | m/p-Xylene       | SAM | 11/21/2024 3:24:19 PM | MMDadoda | 11/21/2024 3:23:37 PM | Peak Integrated by Software incorrectly |
| VL1120ABS01 | VL041699.D | Benzyl Chloride  | SAM | 11/21/2024 3:24:19 PM | MMDadoda | 11/21/2024 3:23:38 PM | Peak Integrated by Software incorrectly |
| VL1120ABS01 | VL041699.D | Chlorobenzene-d5 | SAM | 11/21/2024 3:24:19 PM | MMDadoda | 11/21/2024 3:23:38 PM | Peak Integrated by Software incorrectly |
| VL1120ABS01 | VL041699.D | Ethanol          | SAM | 11/21/2024 3:24:19 PM | MMDadoda | 11/21/2024 3:23:38 PM | Peak Integrated by Software incorrectly |
| VL1120ABS01 | VL041699.D | m/p-Xylene       | SAM | 11/21/2024 3:24:19 PM | MMDadoda | 11/21/2024 3:23:38 PM | Peak Integrated by Software incorrectly |

|          |          |            |         |
|----------|----------|------------|---------|
| Sequence | VL112124 | Instrument | MSVOA_I |
|----------|----------|------------|---------|

|            |            |                  |     |                       |          |                       |                                         |
|------------|------------|------------------|-----|-----------------------|----------|-----------------------|-----------------------------------------|
| VSTDCCC010 | VL041711.D | Chlorobenzene-d5 | SAM | 11/22/2024 8:05:03 AM | MMDadoda | 11/22/2024 3:32:18 PM | Peak Integrated by Software incorrectly |
|------------|------------|------------------|-----|-----------------------|----------|-----------------------|-----------------------------------------|

|             |            |                          |     |                          |          |                          |                                         |
|-------------|------------|--------------------------|-----|--------------------------|----------|--------------------------|-----------------------------------------|
| VSTDCCC010  | VL041711.D | Ethanol                  | SAM | 11/22/2024<br>8:05:03 AM | MMDadoda | 11/22/2024<br>3:32:18 PM | Peak Integrated by Software incorrectly |
| VSTDCCC010  | VL041711.D | Hexachloro-1,3-Butadiene | SAM | 11/22/2024<br>8:05:03 AM | MMDadoda | 11/22/2024<br>3:32:18 PM | Peak Integrated by Software incorrectly |
| VSTDCCC010  | VL041711.D | m/p-Xylene               | SAM | 11/22/2024<br>8:05:03 AM | MMDadoda | 11/22/2024<br>3:32:18 PM | Peak Integrated by Software incorrectly |
| VL1121ABS01 | VL041713.D | 1,2,4-Trichlorobenzene   | SAM | 11/22/2024<br>8:05:07 AM | MMDadoda | 11/22/2024<br>3:32:23 PM | Peak Integrated by Software incorrectly |
| VL1121ABS01 | VL041713.D | Chlorobenzene-d5         | SAM | 11/22/2024<br>8:05:07 AM | MMDadoda | 11/22/2024<br>3:32:23 PM | Peak Integrated by Software incorrectly |
| VL1121ABS01 | VL041713.D | Ethanol                  | SAM | 11/22/2024<br>8:05:07 AM | MMDadoda | 11/22/2024<br>3:32:23 PM | Peak Integrated by Software incorrectly |
| VL1121ABS01 | VL041713.D | m/p-Xylene               | SAM | 11/22/2024<br>8:05:07 AM | MMDadoda | 11/22/2024<br>3:32:23 PM | Peak Integrated by Software incorrectly |
| P4633-01DL  | VL041714.D | Chloroethane             | SAM | 12/2/2024<br>9:05:45 AM  | MMDadoda | 12/3/2024<br>1:50:11 AM  | Peak Integrated by Software incorrectly |
| P4633-01DL2 | VL041715.D | 1,1-Dichloroethene       | SAM | 12/2/2024<br>9:05:52 AM  | MMDadoda | 12/3/2024<br>1:50:13 AM  | Peak Integrated by Software incorrectly |
| P4633-01DL2 | VL041715.D | 1,2,4-Trichlorobenzene   | SAM | 12/2/2024<br>9:05:52 AM  | MMDadoda | 12/3/2024<br>1:50:13 AM  | Peak Integrated by Software incorrectly |
| P4633-01DL2 | VL041715.D | Chloroethane             | SAM | 12/2/2024<br>9:05:52 AM  | MMDadoda | 12/3/2024<br>1:50:13 AM  | Peak Integrated by Software incorrectly |



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\_\_\_\_\_

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## DATA REPORTING QUALIFIERS- ORGANIC

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

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

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: P4633

Completed

For thorough review, the report must have the following:

#### GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

#### COVER PAGE:

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

✓

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

✓

#### CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 12/03/2024

LAB CHRONICLE

|                 |                           |                   |                        |
|-----------------|---------------------------|-------------------|------------------------|
| <b>OrderID:</b> | P4633                     | <b>OrderDate:</b> | 10/30/2024 11:21:00 AM |
| <b>Client:</b>  | Chemtech Consulting Group | <b>Project:</b>   | NJ Air PT              |
| <b>Contact:</b> | QA Officer                | <b>Location:</b>  | VOA Lab                |

| LabID           | ClientID     | Matrix | Test         | Method | Sample Date | Prep Date | Anal Date | Received |
|-----------------|--------------|--------|--------------|--------|-------------|-----------|-----------|----------|
| P4633-01        | E070-1100    | Air    | VOCMS Group3 | TO-15  | 10/25/24    |           | 11/20/24  | 10/30/24 |
| P4633-01DL      | E070-1100DL  | Air    | VOCMS Group3 | TO-15  | 10/25/24    |           | 11/21/24  | 10/30/24 |
| P4633-01DL<br>2 | E070-1100DL2 | Air    | VOCMS Group3 | TO-15  | 10/25/24    |           | 11/21/24  | 10/30/24 |

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

**SDG No.:** P4633  
**Client:** Chemtech Consulting Group

| Sample ID                      | Client ID    | Matrix | Parameter              | Concentration | C  | MDL   | RDL  | Units |
|--------------------------------|--------------|--------|------------------------|---------------|----|-------|------|-------|
| <b>Client ID: E070-1100</b>    |              |        |                        |               |    |       |      |       |
| P4633-01                       | E070-1100    | Air    | Chloroethane           | 152           | E  | 0.45  | 1.32 | ug/m3 |
| P4633-01                       | E070-1100    | Air    | Heptane                | 108           | E  | 0.45  | 2.05 | ug/m3 |
| P4633-01                       | E070-1100    | Air    | 1,1-Dichloroethene     | 88.8          | E  | 0.56  | 1.98 | ug/m3 |
| P4633-01                       | E070-1100    | Air    | Carbon Tetrachloride   | 184           | E  | 0.060 | 0.19 | ug/m3 |
| P4633-01                       | E070-1100    | Air    | Bromodichloromethane   | 141           | E  | 0.54  | 3.35 | ug/m3 |
| P4633-01                       | E070-1100    | Air    | Toluene                | 168           | E  | 0.41  | 1.88 | ug/m3 |
| P4633-01                       | E070-1100    | Air    | Total Xylenes          | 367           | E  | 1.43  | 6.52 | ug/m3 |
| P4633-01                       | E070-1100    | Air    | m/p-Xylene             | 199           | E  | 0.91  | 4.34 | ug/m3 |
| P4633-01                       | E070-1100    | Air    | o-Xylene               | 167           | E  | 0.52  | 2.17 | ug/m3 |
| P4633-01                       | E070-1100    | Air    | 1,2-Dichlorobenzene    | 201           | E  | 0.48  | 3.01 | ug/m3 |
| P4633-01                       | E070-1100    | Air    | 1,2,4-Trichlorobenzene | 204           | E  | 0.67  | 3.71 | ug/m3 |
| <b>Total Voc :</b>             |              |        |                        | 1980          |    |       |      |       |
| <b>Total Concentration:</b>    |              |        |                        | 1980          |    |       |      |       |
| <b>Client ID: E070-1100DL</b>  |              |        |                        |               |    |       |      |       |
| P4633-01DL                     | E070-1100DL  | Air    | Chloroethane           | 136           | ED | 0.90  | 2.64 | ug/m3 |
| P4633-01DL                     | E070-1100DL  | Air    | Heptane                | 99.2          | D  | 0.90  | 4.10 | ug/m3 |
| P4633-01DL                     | E070-1100DL  | Air    | 1,1-Dichloroethene     | 78.1          | D  | 1.11  | 3.96 | ug/m3 |
| P4633-01DL                     | E070-1100DL  | Air    | Carbon Tetrachloride   | 170           | D  | 0.13  | 0.38 | ug/m3 |
| P4633-01DL                     | E070-1100DL  | Air    | Bromodichloromethane   | 124           | D  | 1.00  | 6.70 | ug/m3 |
| P4633-01DL                     | E070-1100DL  | Air    | Toluene                | 161           | ED | 0.83  | 3.77 | ug/m3 |
| P4633-01DL                     | E070-1100DL  | Air    | Total Xylenes          | 347           | D  | 2.87  | 13.0 | ug/m3 |
| P4633-01DL                     | E070-1100DL  | Air    | m/p-Xylene             | 193           | D  | 1.82  | 8.69 | ug/m3 |
| P4633-01DL                     | E070-1100DL  | Air    | o-Xylene               | 155           | ED | 1.04  | 4.34 | ug/m3 |
| P4633-01DL                     | E070-1100DL  | Air    | 1,2-Dichlorobenzene    | 179           | D  | 0.90  | 6.01 | ug/m3 |
| P4633-01DL                     | E070-1100DL  | Air    | 1,2,4-Trichlorobenzene | 174           | D  | 1.26  | 7.42 | ug/m3 |
| <b>Total Voc :</b>             |              |        |                        | 1820          |    |       |      |       |
| <b>Total Concentration:</b>    |              |        |                        | 1820          |    |       |      |       |
| <b>Client ID: E070-1100DL2</b> |              |        |                        |               |    |       |      |       |
| P4633-01DL2                    | E070-1100DL2 | Air    | Chloroethane           | 130           | D  | 1.79  | 5.28 | ug/m3 |
| P4633-01DL2                    | E070-1100DL2 | Air    | Heptane                | 91.0          | D  | 1.80  | 8.20 | ug/m3 |
| P4633-01DL2                    | E070-1100DL2 | Air    | 1,1-Dichloroethene     | 75.3          | D  | 2.22  | 7.93 | ug/m3 |
| P4633-01DL2                    | E070-1100DL2 | Air    | Carbon Tetrachloride   | 167           | D  | 0.25  | 0.75 | ug/m3 |
| P4633-01DL2                    | E070-1100DL2 | Air    | Bromodichloromethane   | 116           | D  | 2.08  | 13.4 | ug/m3 |
| P4633-01DL2                    | E070-1100DL2 | Air    | Toluene                | 155           | D  | 1.66  | 7.54 | ug/m3 |
| P4633-01DL2                    | E070-1100DL2 | Air    | Total Xylenes          | 339           | D  | 5.73  | 26.1 | ug/m3 |
| P4633-01DL2                    | E070-1100DL2 | Air    | m/p-Xylene             | 189           | D  | 3.65  | 17.4 | ug/m3 |

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

**SDG No.:** P4633

**Client:** Chemtech Consulting Group

| Sample ID                   | Client ID    | Matrix | Parameter              | Concentration | C | MDL  | RDL  | Units |
|-----------------------------|--------------|--------|------------------------|---------------|---|------|------|-------|
| P4633-01DL2                 | E070-1100DL2 | Air    | o-Xylene               | 150           | D | 2.08 | 8.69 | ug/m3 |
| P4633-01DL2                 | E070-1100DL2 | Air    | 1,2-Dichlorobenzene    | 162           | D | 1.80 | 12.0 | ug/m3 |
| P4633-01DL2                 | E070-1100DL2 | Air    | 1,2,4-Trichlorobenzene | 137           | D | 2.52 | 14.8 | ug/m3 |
| <b>Total Voc :</b>          |              |        |                        | 1710          |   |      |      |       |
| <b>Total Concentration:</b> |              |        |                        | 1710          |   |      |      |       |



**Project :** NJ Air PT

**Sampling Date :** 10/25/24

**Field Id Number :** E070-1100

**Analysis Date :** 11/20/24

**Laboratory Id Number :** P4633-01

**Target Analyts :** Air Results

| Chemical                       | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|--------------------------------|------------|------------------|------------------------|-----------|---------------------------|--------------|------------|
| Chlorodifluoromethane          | 75-45-6    | 86.47            | 0.09                   | U         | 0.32                      |              |            |
| Dichlorodifluoromethane        | 75-71-8    | 120.9            | 0.21                   | U         | 1.04                      |              |            |
| Ethanol                        | 64-17-5    | 46.07            | 0.32                   | U         | 0.6                       |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.1                    | U         | 0.21                      |              |            |
| Vinyl Chloride                 | 75-01-4    | 62.5             | 0.01                   | U         | 0.03                      |              |            |
| Ethyl Acetate                  | 141-78-6   | 97               | 0.08                   | U         | 0.32                      |              |            |
| Bromomethane                   | 74-83-9    | 94.94            | 0.14                   | U         | 0.54                      |              |            |
| Chloroethane                   | 75-00-3    | 64.52            | 57.6                   | E         | 152                       |              |            |
| Tetrahydrofuran                | 109-99-9   | 72.11            | 0.13                   | U         | 0.38                      |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 0.16                   | U         | 0.9                       |              |            |
| 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                      |              |            |
| Bromoethene                    | 593-60-2   | 106.9            | 0.12                   | U         | 0.52                      |              |            |
| Propene                        | 115-07-1   | 42               | 0.15                   | U         | 0.26                      |              |            |
| tert-Butyl alcohol             | 75-65-0    | 74.12            | 0.19                   | U         | 0.58                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 26.4                   | E         | 108                       |              |            |
| Isopropyl Alcohol              | 67-63-0    | 60.1             | 0.07                   | U         | 0.17                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 22.4                   | E         | 88.8                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 0.24                   | U         | 0.57                      |              |            |
| 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            | 0.19                   | U         | 0.66                      |              |            |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.94            | 0.19                   | U         | 0.75                      |              |            |
| Vinyl Acetate                  | 108-05-4   | 88               | 0.16                   | U         | 0.58                      |              |            |
| 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            | 0.12                   | U         | 0.35                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 29.2                   | E         | 183                       |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.09                   | U         | 0.36                      |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 0.08                   | U         | 0.39                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.01                   | U         | 0.05                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 0.1                    | U         | 0.47                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.09                   | U         | 0.29                      |              |            |
| 1,2-Dichloroethane             | 107-06-2   | 98.96            | 0.09                   | U         | 0.36                      |              |            |
| Trichloroethene                | 79-01-6    | 131.4            | 0.02                   | U         | 0.11                      |              |            |

**Project :** NJ Air PT

**Sampling Date :** 10/25/24

**Field Id Number :** E070-1100

**Analysis Date :** 11/20/24

**Laboratory Id Number :** P4633-01

**Target Analyts :** Air Results

|                           |             |         |      |   |      |  |  |
|---------------------------|-------------|---------|------|---|------|--|--|
| 1,2-Dichloropropane       | 78-87-5     | 113     | 0.11 | U | 0.51 |  |  |
| Bromodichloromethane      | 75-27-4     | 163.8   | 21   | E | 140  |  |  |
| 4-Methyl-2-Pentanone      | 108-10-1    | 100.2   | 0.09 | U | 0.37 |  |  |
| Toluene                   | 108-88-3    | 92.14   | 44.6 | E | 168  |  |  |
| 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 |  |  |
| 2-Hexanone                | 591-78-6    | 100     | 0.08 | U | 0.33 |  |  |
| 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   | 45.9 | E | 199  |  |  |
| Total Xylenes             | 1330-20-7   | 106.2   | 84.4 | E | 366  |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 38.5 | E | 167  |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.11 | U | 0.47 |  |  |
| Bromoform                 | 75-25-2     | 252.8   | 0.06 | U | 0.62 |  |  |
| Isopropylbenzene          | 98-82-8     | 120.19  | 0.09 | U | 0.44 |  |  |
| 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     | 33.5 | E | 201  |  |  |
| 1,2,4-Trichlorobenzene    | 120-82-1    | 181.5   | 27.5 | E | 204  |  |  |
| Hexachloro-1,3-Butadiene  | 87-68-3     | 260.8   | 0.09 | U | 0.96 |  |  |
| Naphthalene               | 91-20-3     | 128.17  | 0.08 | U | 0.42 |  |  |
| 1,3-Butadiene             | 106-99-0    | 54.09   | 0.13 | U | 0.29 |  |  |
| 4-Ethyltoluene            | 622-96-8    | 120.2   | 0.12 | U | 0.59 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 0.11 | U | 0.39 |  |  |
| Allyl Chloride            | 107-05-1    | 76.53   | 0.15 | U | 0.47 |  |  |
| Benzyl Chloride           | 100-44-7    | 126.59  | 0.18 | U | 0.93 |  |  |
| 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 :** NJ Air PT

**Sampling Date :** 10/25/24

**Field Id Number :** E070-1100DL

**Analysis Date :** 11/21/24

**Laboratory Id Number :** P4633-01DL

**Target Analyts :** Air Results

| Chemical                       | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|--------------------------------|------------|------------------|------------------------|-----------|---------------------------|--------------|------------|
| Chlorodifluoromethane          | 75-45-6    | 86.47            | 0.18                   | UD        | 0.64                      |              |            |
| Dichlorodifluoromethane        | 75-71-8    | 120.9            | 0.42                   | UD        | 2.08                      |              |            |
| Ethanol                        | 64-17-5    | 46.07            | 0.64                   | UD        | 1.21                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.2                    | UD        | 0.41                      |              |            |
| Vinyl Chloride                 | 75-01-4    | 62.5             | 0.03                   | UD        | 0.08                      |              |            |
| Ethyl Acetate                  | 141-78-6   | 97               | 0.16                   | UD        | 0.63                      |              |            |
| Bromomethane                   | 74-83-9    | 94.94            | 0.28                   | UD        | 1.09                      |              |            |
| Chloroethane                   | 75-00-3    | 64.52            | 51.6                   | ED        | 136                       |              |            |
| Tetrahydrofuran                | 109-99-9   | 72.11            | 0.26                   | UD        | 0.77                      |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 0.32                   | UD        | 1.8                       |              |            |
| Dichlorotetrafluoroethane      | 76-14-2    | 170.9            | 0.18                   | UD        | 1.26                      |              |            |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.4            | 0.32                   | UD        | 2.45                      |              |            |
| Bromoethene                    | 593-60-2   | 106.9            | 0.24                   | UD        | 1.05                      |              |            |
| Propene                        | 115-07-1   | 42               | 0.3                    | UD        | 0.52                      |              |            |
| tert-Butyl alcohol             | 75-65-0    | 74.12            | 0.38                   | UD        | 1.15                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 24.2                   | D         | 99.2                      |              |            |
| Isopropyl Alcohol              | 67-63-0    | 60.1             | 0.14                   | UD        | 0.34                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 19.7                   | D         | 78.1                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 0.48                   | UD        | 1.14                      |              |            |
| Carbon Disulfide               | 75-15-0    | 76.14            | 0.32                   | UD        | 1                         |              |            |
| Methyl tert-Butyl Ether        | 1634-04-4  | 88.15            | 0.24                   | UD        | 0.87                      |              |            |
| Methylene Chloride             | 75-09-2    | 84.94            | 0.38                   | UD        | 1.32                      |              |            |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.94            | 0.38                   | UD        | 1.51                      |              |            |
| Vinyl Acetate                  | 108-05-4   | 88               | 0.32                   | UD        | 1.15                      |              |            |
| 1,1-Dichloroethane             | 75-34-3    | 98.96            | 0.26                   | UD        | 1.05                      |              |            |
| Cyclohexane                    | 110-82-7   | 84.16            | 0.44                   | UD        | 1.51                      |              |            |
| 2-Butanone                     | 78-93-3    | 72.11            | 0.24                   | UD        | 0.71                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 27.1                   | D         | 170                       |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.18                   | UD        | 0.71                      |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 0.17                   | UD        | 0.83                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.02                   | UD        | 0.11                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 0.2                    | UD        | 0.93                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.17                   | UD        | 0.54                      |              |            |
| 1,2-Dichloroethane             | 107-06-2   | 98.96            | 0.18                   | UD        | 0.73                      |              |            |
| Trichloroethene                | 79-01-6    | 131.4            | 0.03                   | UD        | 0.16                      |              |            |

**Project :** NJ Air PT

**Sampling Date :** 10/25/24

**Field Id Number :** E070-1100DL

**Analysis Date :** 11/21/24

**Laboratory Id Number :** P4633-01DL

**Target Analyts :** Air Results

|                           |             |         |      |    |      |  |  |
|---------------------------|-------------|---------|------|----|------|--|--|
| 1,2-Dichloropropane       | 78-87-5     | 113     | 0.22 | UD | 1.02 |  |  |
| Bromodichloromethane      | 75-27-4     | 163.8   | 18.5 | D  | 123  |  |  |
| 4-Methyl-2-Pentanone      | 108-10-1    | 100.2   | 0.19 | UD | 0.78 |  |  |
| Toluene                   | 108-88-3    | 92.14   | 42.6 | ED | 160  |  |  |
| t-1,3-Dichloropropene     | 10061-02-6  | 111     | 0.12 | UD | 0.54 |  |  |
| cis-1,3-Dichloropropene   | 10061-01-5  | 111     | 0.13 | UD | 0.59 |  |  |
| 1,1,2-Trichloroethane     | 79-00-5     | 133.4   | 0.14 | UD | 0.76 |  |  |
| 2-Hexanone                | 591-78-6    | 100     | 0.16 | UD | 0.65 |  |  |
| Dibromochloromethane      | 124-48-1    | 208.3   | 0.13 | UD | 1.11 |  |  |
| 1,2-Dibromoethane         | 106-93-4    | 187.9   | 0.14 | UD | 1.08 |  |  |
| Tetrachloroethene         | 127-18-4    | 165.8   | 0.03 | UD | 0.2  |  |  |
| Chlorobenzene             | 108-90-7    | 112.6   | 0.15 | UD | 0.69 |  |  |
| Ethyl Benzene             | 100-41-4    | 106.2   | 0.24 | UD | 1.04 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 44.4 | D  | 192  |  |  |
| Total Xylenes             | 1330-20-7   | 106.2   | 80   | D  | 347  |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 35.6 | ED | 154  |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.22 | UD | 0.94 |  |  |
| Bromoform                 | 75-25-2     | 252.8   | 0.11 | UD | 1.14 |  |  |
| Isopropylbenzene          | 98-82-8     | 120.19  | 0.17 | UD | 0.84 |  |  |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | 167.9   | 0.02 | UD | 0.14 |  |  |
| 2-Chlorotoluene           | 95-49-8     | 126.6   | 0.22 | UD | 1.14 |  |  |
| 1,3,5-Trimethylbenzene    | 108-67-8    | 120.2   | 0.22 | UD | 1.08 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.16 | UD | 0.79 |  |  |
| 1,3-Dichlorobenzene       | 541-73-1    | 147     | 0.16 | UD | 0.96 |  |  |
| 1,4-Dichlorobenzene       | 106-46-7    | 147     | 0.11 | UD | 0.66 |  |  |
| 1,2-Dichlorobenzene       | 95-50-1     | 147     | 29.8 | D  | 179  |  |  |
| 1,2,4-Trichlorobenzene    | 120-82-1    | 181.5   | 23.4 | D  | 173  |  |  |
| Hexachloro-1,3-Butadiene  | 87-68-3     | 260.8   | 0.17 | UD | 1.81 |  |  |
| Naphthalene               | 91-20-3     | 128.17  | 0.15 | UD | 0.79 |  |  |
| 1,3-Butadiene             | 106-99-0    | 54.09   | 0.26 | UD | 0.58 |  |  |
| 4-Ethyltoluene            | 622-96-8    | 120.2   | 0.24 | UD | 1.18 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 0.22 | UD | 0.78 |  |  |
| Allyl Chloride            | 107-05-1    | 76.53   | 0.3  | UD | 0.94 |  |  |
| Benzyl Chloride           | 100-44-7    | 126.59  | 0.36 | UD | 1.86 |  |  |
| 1,4-Dioxane               | 123-91-1    | 88.12   | 0.42 | UD | 1.51 |  |  |
| Methyl Methacrylate       | 80-62-6     | 100.117 | 0.17 | UD | 0.7  |  |  |

**Project :** NJ Air PT

**Sampling Date :** 10/25/24

**Field Id Number :** E070-1100DL2

**Analysis Date :** 11/21/24

**Laboratory Id Number :** P4633-01DL2

**Target Analyts :** Air Results

| Chemical                       | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|--------------------------------|------------|------------------|------------------------|-----------|---------------------------|--------------|------------|
| Chlorodifluoromethane          | 75-45-6    | 86.47            | 0.35                   | UD        | 1.24                      |              |            |
| Dichlorodifluoromethane        | 75-71-8    | 120.9            | 0.84                   | UD        | 4.15                      |              |            |
| Ethanol                        | 64-17-5    | 46.07            | 1.3                    | UD        | 2.45                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.39                   | UD        | 0.81                      |              |            |
| Vinyl Chloride                 | 75-01-4    | 62.5             | 0.06                   | UD        | 0.15                      |              |            |
| Ethyl Acetate                  | 141-78-6   | 97               | 0.32                   | UD        | 1.27                      |              |            |
| Bromomethane                   | 74-83-9    | 94.94            | 0.56                   | UD        | 2.17                      |              |            |
| Chloroethane                   | 75-00-3    | 64.52            | 49.2                   | D         | 129                       |              |            |
| Tetrahydrofuran                | 109-99-9   | 72.11            | 0.52                   | UD        | 1.53                      |              |            |
| 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                      |              |            |
| Bromoethene                    | 593-60-2   | 106.9            | 0.48                   | UD        | 2.1                       |              |            |
| tert-Butyl alcohol             | 75-65-0    | 74.12            | 0.76                   | UD        | 2.3                       |              |            |
| Propene                        | 115-07-1   | 42               | 0.6                    | UD        | 1.03                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 22.2                   | D         | 91.0                      |              |            |
| Isopropyl Alcohol              | 67-63-0    | 60.1             | 0.28                   | UD        | 0.69                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 19                     | D         | 75.3                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 0.96                   | UD        | 2.28                      |              |            |
| 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                      |              |            |
| Vinyl Acetate                  | 108-05-4   | 88               | 0.64                   | UD        | 2.3                       |              |            |
| 1,1-Dichloroethane             | 75-34-3    | 98.96            | 0.52                   | UD        | 2.1                       |              |            |
| Cyclohexane                    | 110-82-7   | 84.16            | 0.88                   | UD        | 3.03                      |              |            |
| 2-Butanone                     | 78-93-3    | 72.11            | 0.48                   | UD        | 1.42                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 26.6                   | D         | 167                       |              |            |
| 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            | 0.4                    | UD        | 1.87                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.35                   | UD        | 1.12                      |              |            |
| 1,2-Dichloroethane             | 107-06-2   | 98.96            | 0.36                   | UD        | 1.46                      |              |            |
| Trichloroethene                | 79-01-6    | 131.4            | 0.07                   | UD        | 0.38                      |              |            |

**Project :** NJ Air PT

**Sampling Date :** 10/25/24

**Field Id Number :** E070-1100DL2

**Analysis Date :** 11/21/24

**Laboratory Id Number :** P4633-01DL2

**Target Analyts :** Air Results

|                           |             |         |      |    |      |  |  |
|---------------------------|-------------|---------|------|----|------|--|--|
| 1,2-Dichloropropane       | 78-87-5     | 113     | 0.44 | UD | 2.03 |  |  |
| Bromodichloromethane      | 75-27-4     | 163.8   | 17.3 | D  | 115  |  |  |
| 4-Methyl-2-Pentanone      | 108-10-1    | 100.2   | 0.37 | UD | 1.52 |  |  |
| Toluene                   | 108-88-3    | 92.14   | 41.2 | D  | 155  |  |  |
| 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 |  |  |
| 2-Hexanone                | 591-78-6    | 100     | 0.32 | UD | 1.31 |  |  |
| 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   | 0.48 | UD | 2.08 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 43.6 | D  | 189  |  |  |
| Total Xylenes             | 1330-20-7   | 106.2   | 78.1 | D  | 339  |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 34.5 | D  | 149  |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.44 | UD | 1.87 |  |  |
| Bromoform                 | 75-25-2     | 252.8   | 0.23 | UD | 2.38 |  |  |
| Isopropylbenzene          | 98-82-8     | 120.19  | 0.35 | UD | 1.72 |  |  |
| 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   | 0.31 | UD | 1.52 |  |  |
| 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     | 27   | D  | 162  |  |  |
| 1,2,4-Trichlorobenzene    | 120-82-1    | 181.5   | 18.5 | D  | 137  |  |  |
| 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   | 0.44 | UD | 1.55 |  |  |
| Allyl Chloride            | 107-05-1    | 76.53   | 0.6  | UD | 1.88 |  |  |
| Benzyl Chloride           | 100-44-7    | 126.59  | 0.72 | UD | 3.73 |  |  |
| 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 |  |  |

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



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



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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 |            |                |                   |            |                 |

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| 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      |
| P4633-VOCMS Group3 |                 |                   | VOC        | 0.544                | 136      |

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# QC SUMMARY

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### Surrogate Summary

SDG No.: P4633

Client: Chemtech Consulting Group

Analytical Method: SWTO-15

| Lab Sample ID | Client ID    | Parameter               | Spike | Result | RecoveryQual | Limits |      |
|---------------|--------------|-------------------------|-------|--------|--------------|--------|------|
|               |              |                         |       |        |              | Low    | High |
| P4633-01      | E070-1100    | 1-Bromo-4-Fluorobenzene | 10    | 10.6   | 106          | 65     | 135  |
| P4633-01DL    | E070-1100DL  | 1-Bromo-4-Fluorobenzene | 10    | 11.0   | 110          | 65     | 135  |
| P4633-01DL2   | E070-1100DL2 | 1-Bromo-4-Fluorobenzene | 10    | 10.6   | 106          | 65     | 135  |
| P4911-02DUP   | IA1DUP       | 1-Bromo-4-Fluorobenzene | 10    | 9.80   | 98           | 65     | 135  |
| VL1120ABL01   | VL1120ABL01  | 1-Bromo-4-Fluorobenzene | 10    | 9.90   | 99           | 65     | 135  |
| VL1120ABS01   | VL1120ABS01  | 1-Bromo-4-Fluorobenzene | 10    | 9.77   | 98           | 65     | 135  |
| VL1121ABL01   | VL1121ABL01  | 1-Bromo-4-Fluorobenzene | 10    | 9.79   | 98           | 65     | 135  |
| VL1121ABS01   | VL1121ABS01  | 1-Bromo-4-Fluorobenzene | 10    | 10.4   | 104          | 65     | 135  |



## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4633

Client: Chemtech Consulting Group

Analytical Method: SWTO-15

Datafile : VL041699.D

| Lab Sample ID | Parameter                      | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits High | RPD |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|-----|-------------|-----|
| VL1120ABS01   | Chlorodifluoromethane          | 10    | 8.90   | ppbv | 89  |     |      | 70  | 130         |     |
|               | Dichlorodifluoromethane        | 10    | 7.30   | ppbv | 73  |     |      | 70  | 130         |     |
|               | Ethanol                        | 10    | 8.90   | ppbv | 89  |     |      | 70  | 130         |     |
|               | Chloromethane                  | 10    | 9.30   | ppbv | 93  |     |      | 70  | 130         |     |
|               | Vinyl Chloride                 | 10    | 10.0   | ppbv | 100 |     |      | 70  | 130         |     |
|               | Ethyl Acetate                  | 10    | 9.50   | ppbv | 95  |     |      | 70  | 130         |     |
|               | Bromomethane                   | 10    | 9.50   | ppbv | 95  |     |      | 70  | 130         |     |
|               | Chloroethane                   | 10    | 9.20   | ppbv | 92  |     |      | 70  | 130         |     |
|               | Tetrahydrofuran                | 10    | 10.3   | ppbv | 103 |     |      | 70  | 130         |     |
|               | Trichlorofluoromethane         | 10    | 9.40   | ppbv | 94  |     |      | 70  | 130         |     |
|               | 1,1,2-Trichlorotrifluoroethane | 10    | 9.40   | ppbv | 94  |     |      | 70  | 130         |     |
|               | Dichlorotetrafluoroethane      | 10    | 9.00   | ppbv | 90  |     |      | 70  | 130         |     |
|               | Bromoethene                    | 10    | 9.40   | ppbv | 94  |     |      | 70  | 130         |     |
|               | tert-Butyl Alcohol             | 10    | 9.50   | ppbv | 95  |     |      | 70  | 130         |     |
|               | Propene                        | 10    | 9.00   | ppbv | 90  |     |      | 70  | 130         |     |
|               | Heptane                        | 10    | 10.3   | ppbv | 103 |     |      | 70  | 130         |     |
|               | Isopropyl Alcohol              | 10    | 9.10   | ppbv | 91  |     |      | 70  | 130         |     |
|               | 1,1-Dichloroethene             | 10    | 9.50   | ppbv | 95  |     |      | 70  | 130         |     |
|               | Acetone                        | 10    | 9.10   | ppbv | 91  |     |      | 70  | 130         |     |
|               | Carbon disulfide               | 10    | 10.7   | ppbv | 107 |     |      | 70  | 130         |     |
|               | Methyl tert-butyl Ether        | 10    | 8.80   | ppbv | 88  |     |      | 70  | 130         |     |
|               | Methylene Chloride             | 10    | 8.90   | ppbv | 89  |     |      | 70  | 130         |     |
|               | trans-1,2-Dichloroethene       | 10    | 9.50   | ppbv | 95  |     |      | 70  | 130         |     |
|               | Vinyl Acetate                  | 10    | 9.20   | ppbv | 92  |     |      | 70  | 130         |     |
|               | 1,1-Dichloroethane             | 10    | 9.30   | ppbv | 93  |     |      | 70  | 130         |     |
|               | Cyclohexane                    | 10    | 9.80   | ppbv | 98  |     |      | 70  | 130         |     |
|               | 2-Butanone                     | 10    | 9.30   | ppbv | 93  |     |      | 70  | 130         |     |
|               | Carbon Tetrachloride           | 10    | 10.7   | ppbv | 107 |     |      | 70  | 130         |     |
|               | cis-1,2-Dichloroethene         | 10    | 9.80   | ppbv | 98  |     |      | 70  | 130         |     |
|               | Chloroform                     | 10    | 9.40   | ppbv | 94  |     |      | 70  | 130         |     |
|               | 1,1,1-Trichloroethane          | 10    | 10.1   | ppbv | 101 |     |      | 70  | 130         |     |
|               | 2,2,4-Trimethylpentane         | 10    | 10.0   | ppbv | 100 |     |      | 70  | 130         |     |
|               | Benzene                        | 10    | 10.0   | ppbv | 100 |     |      | 70  | 130         |     |
|               | 1,2-Dichloroethane             | 10    | 9.70   | ppbv | 97  |     |      | 70  | 130         |     |
|               | Trichloroethene                | 10    | 10.6   | ppbv | 106 |     |      | 70  | 130         |     |
|               | 1,2-Dichloropropane            | 10    | 9.80   | ppbv | 98  |     |      | 70  | 130         |     |
|               | Bromodichloromethane           | 10    | 10.2   | ppbv | 102 |     |      | 70  | 130         |     |
|               | 4-Methyl-2-Pentanone           | 10    | 10.5   | ppbv | 105 |     |      | 70  | 130         |     |
|               | Toluene                        | 10    | 11.0   | ppbv | 110 |     |      | 70  | 130         |     |
|               | t-1,3-Dichloropropene          | 10    | 11.4   | ppbv | 114 |     |      | 70  | 130         |     |
|               | cis-1,3-Dichloropropene        | 10    | 11.1   | ppbv | 111 |     |      | 70  | 130         |     |
|               | 1,1,2-Trichloroethane          | 10    | 9.80   | ppbv | 98  |     |      | 70  | 130         |     |
|               | 2-Hexanone                     | 10    | 11.2   | ppbv | 112 |     |      | 70  | 130         |     |
|               | Dibromochloromethane           | 10    | 10.6   | ppbv | 106 |     |      | 70  | 130         |     |
|               | 1,2-Dibromoethane              | 10    | 11.2   | ppbv | 112 |     |      | 70  | 130         |     |
|               | Tetrachloroethene              | 10    | 10.9   | ppbv | 109 |     |      | 70  | 130         |     |
|               | Chlorobenzene                  | 10    | 9.30   | ppbv | 93  |     |      | 70  | 130         |     |
|               | Ethyl Benzene                  | 10    | 10.7   | ppbv | 107 |     |      | 70  | 130         |     |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4633

Client: Chemtech Consulting Group

Analytical Method: SWTO-15

Datafile : VL041699.D

| Lab Sample ID | Parameter                 | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits<br>High | RPD |
|---------------|---------------------------|-------|--------|------|-----|-----|------|-----|----------------|-----|
| VL1120ABS01   | m/p-Xylene                | 20    | 20.5   | ppbv | 103 |     |      | 70  | 130            |     |
|               | o-Xylene                  | 10    | 10.3   | ppbv | 103 |     |      | 70  | 130            |     |
|               | Styrene                   | 10    | 12.0   | ppbv | 120 |     |      | 70  | 130            |     |
|               | Bromoform                 | 10    | 11.1   | ppbv | 111 |     |      | 70  | 130            |     |
|               | Isopropylbenzene          | 10    | 9.90   | ppbv | 99  |     |      | 70  | 130            |     |
|               | 1,1,2,2-Tetrachloroethane | 10    | 9.80   | ppbv | 98  |     |      | 70  | 130            |     |
|               | 2-Chlorotoluene           | 10    | 10.4   | ppbv | 104 |     |      | 70  | 130            |     |
|               | 1,3,5-Trimethylbenzene    | 10    | 10.5   | ppbv | 105 |     |      | 70  | 130            |     |
|               | 1,2,4-Trimethylbenzene    | 10    | 10.0   | ppbv | 100 |     |      | 70  | 130            |     |
|               | 1,3-Dichlorobenzene       | 10    | 9.90   | ppbv | 99  |     |      | 70  | 130            |     |
|               | 1,4-Dichlorobenzene       | 10    | 9.90   | ppbv | 99  |     |      | 70  | 130            |     |
|               | 1,2-Dichlorobenzene       | 10    | 9.80   | ppbv | 98  |     |      | 70  | 130            |     |
|               | 1,2,4-Trichlorobenzene    | 10    | 10.5   | ppbv | 105 |     |      | 70  | 130            |     |
|               | Hexachloro-1,3-butadiene  | 10    | 8.30   | ppbv | 83  |     |      | 70  | 130            |     |
|               | Naphthalene               | 10    | 13.1   | ppbv | 131 |     | *    | 70  | 130            |     |
|               | 1,3-Butadiene             | 10    | 9.90   | ppbv | 99  |     |      | 70  | 130            |     |
|               | 4-Ethyltoluene            | 10    | 10.8   | ppbv | 108 |     |      | 70  | 130            |     |
|               | Hexane                    | 10    | 9.70   | ppbv | 97  |     |      | 70  | 130            |     |
|               | Allyl Chloride            | 10    | 9.90   | ppbv | 99  |     |      | 70  | 130            |     |
|               | 1,4-Dioxane               | 10    | 10.6   | ppbv | 106 |     |      | 70  | 130            |     |
|               | Benzyl Chloride           | 10    | 11.2   | ppbv | 112 |     |      | 70  | 130            |     |
|               | Methyl methacrylate       | 10    | 10.9   | ppbv | 109 |     |      | 70  | 130            |     |

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4633

Client: Chemtech Consulting Group

Analytical Method: SWTO-15

Datafile : VL041713.D

| Lab Sample ID | Parameter                      | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits High | RPD |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|-----|-------------|-----|
| VL1121ABS01   | Chlorodifluoromethane          | 10    | 8.70   | ppbv | 87  |     |      | 70  | 130         |     |
|               | Dichlorodifluoromethane        | 10    | 7.90   | ppbv | 79  |     |      | 70  | 130         |     |
|               | Ethanol                        | 10    | 5.00   | ppbv | 50  |     | *    | 70  | 130         |     |
|               | Chloromethane                  | 10    | 9.10   | ppbv | 91  |     |      | 70  | 130         |     |
|               | Vinyl Chloride                 | 10    | 9.70   | ppbv | 97  |     |      | 70  | 130         |     |
|               | Ethyl Acetate                  | 10    | 9.30   | ppbv | 93  |     |      | 70  | 130         |     |
|               | Bromomethane                   | 10    | 8.10   | ppbv | 81  |     |      | 70  | 130         |     |
|               | Chloroethane                   | 10    | 9.20   | ppbv | 92  |     |      | 70  | 130         |     |
|               | Tetrahydrofuran                | 10    | 10.4   | ppbv | 104 |     |      | 70  | 130         |     |
|               | Trichlorofluoromethane         | 10    | 9.20   | ppbv | 92  |     |      | 70  | 130         |     |
|               | 1,1,2-Trichlorotrifluoroethane | 10    | 9.40   | ppbv | 94  |     |      | 70  | 130         |     |
|               | Dichlorotetrafluoroethane      | 10    | 9.00   | ppbv | 90  |     |      | 70  | 130         |     |
|               | Bromoethene                    | 10    | 9.30   | ppbv | 93  |     |      | 70  | 130         |     |
|               | tert-Butyl Alcohol             | 10    | 9.40   | ppbv | 94  |     |      | 70  | 130         |     |
|               | Propene                        | 10    | 9.10   | ppbv | 91  |     |      | 70  | 130         |     |
|               | Heptane                        | 10    | 10.1   | ppbv | 101 |     |      | 70  | 130         |     |
|               | Isopropyl Alcohol              | 10    | 9.40   | ppbv | 94  |     |      | 70  | 130         |     |
|               | 1,1-Dichloroethene             | 10    | 9.40   | ppbv | 94  |     |      | 70  | 130         |     |
|               | Acetone                        | 10    | 8.80   | ppbv | 88  |     |      | 70  | 130         |     |
|               | Carbon disulfide               | 10    | 10.6   | ppbv | 106 |     |      | 70  | 130         |     |
|               | Methyl tert-butyl Ether        | 10    | 9.40   | ppbv | 94  |     |      | 70  | 130         |     |
|               | Methylene Chloride             | 10    | 8.70   | ppbv | 87  |     |      | 70  | 130         |     |
|               | trans-1,2-Dichloroethene       | 10    | 9.50   | ppbv | 95  |     |      | 70  | 130         |     |
|               | Vinyl Acetate                  | 10    | 12.3   | ppbv | 123 |     |      | 70  | 130         |     |
|               | 1,1-Dichloroethane             | 10    | 9.30   | ppbv | 93  |     |      | 70  | 130         |     |
|               | Cyclohexane                    | 10    | 9.60   | ppbv | 96  |     |      | 70  | 130         |     |
|               | 2-Butanone                     | 10    | 9.00   | ppbv | 90  |     |      | 70  | 130         |     |
|               | Carbon Tetrachloride           | 10    | 10.4   | ppbv | 104 |     |      | 70  | 130         |     |
|               | cis-1,2-Dichloroethene         | 10    | 9.80   | ppbv | 98  |     |      | 70  | 130         |     |
|               | Chloroform                     | 10    | 9.20   | ppbv | 92  |     |      | 70  | 130         |     |
|               | 1,1,1-Trichloroethane          | 10    | 10.0   | ppbv | 100 |     |      | 70  | 130         |     |
|               | 2,2,4-Trimethylpentane         | 10    | 9.80   | ppbv | 98  |     |      | 70  | 130         |     |
|               | Benzene                        | 10    | 9.80   | ppbv | 98  |     |      | 70  | 130         |     |
|               | 1,2-Dichloroethane             | 10    | 9.70   | ppbv | 97  |     |      | 70  | 130         |     |
|               | Trichloroethene                | 10    | 14.3   | ppbv | 143 |     | *    | 70  | 130         |     |
|               | 1,2-Dichloropropane            | 10    | 9.60   | ppbv | 96  |     |      | 70  | 130         |     |
|               | Bromodichloromethane           | 10    | 10.0   | ppbv | 100 |     |      | 70  | 130         |     |
|               | 4-Methyl-2-Pentanone           | 10    | 10.4   | ppbv | 104 |     |      | 70  | 130         |     |
|               | Toluene                        | 10    | 10.7   | ppbv | 107 |     |      | 70  | 130         |     |
|               | t-1,3-Dichloropropene          | 10    | 9.90   | ppbv | 99  |     |      | 70  | 130         |     |
|               | cis-1,3-Dichloropropene        | 10    | 10.2   | ppbv | 102 |     |      | 70  | 130         |     |
|               | 1,1,2-Trichloroethane          | 10    | 9.50   | ppbv | 95  |     |      | 70  | 130         |     |
|               | 2-Hexanone                     | 10    | 11.2   | ppbv | 112 |     |      | 70  | 130         |     |
|               | Dibromochloromethane           | 10    | 10.2   | ppbv | 102 |     |      | 70  | 130         |     |
|               | 1,2-Dibromoethane              | 10    | 10.6   | ppbv | 106 |     |      | 70  | 130         |     |
|               | Tetrachloroethene              | 10    | 10.4   | ppbv | 104 |     |      | 70  | 130         |     |
|               | Chlorobenzene                  | 10    | 9.70   | ppbv | 97  |     |      | 70  | 130         |     |
|               | Ethyl Benzene                  | 10    | 11.3   | ppbv | 113 |     |      | 70  | 130         |     |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4633

Client: Chemtech Consulting Group

Analytical Method: SWTO-15

Datafile : VL041713.D

| Lab Sample ID | Parameter                 | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits<br>High | RPD |
|---------------|---------------------------|-------|--------|------|-----|-----|------|-----|----------------|-----|
| VL1121ABS01   | m/p-Xylene                | 20    | 21.4   | ppbv | 107 |     |      | 70  | 130            |     |
|               | o-Xylene                  | 10    | 11.0   | ppbv | 110 |     |      | 70  | 130            |     |
|               | Styrene                   | 10    | 12.6   | ppbv | 126 |     |      | 70  | 130            |     |
|               | Bromoform                 | 10    | 10.5   | ppbv | 105 |     |      | 70  | 130            |     |
|               | Isopropylbenzene          | 10    | 10.2   | ppbv | 102 |     |      | 70  | 130            |     |
|               | 1,1,2,2-Tetrachloroethane | 10    | 5.90   | ppbv | 59  | *   |      | 70  | 130            |     |
|               | 2-Chlorotoluene           | 10    | 10.7   | ppbv | 107 |     |      | 70  | 130            |     |
|               | 1,3,5-Trimethylbenzene    | 10    | 10.9   | ppbv | 109 |     |      | 70  | 130            |     |
|               | 1,2,4-Trimethylbenzene    | 10    | 10.4   | ppbv | 104 |     |      | 70  | 130            |     |
|               | 1,3-Dichlorobenzene       | 10    | 10.2   | ppbv | 102 |     |      | 70  | 130            |     |
|               | 1,4-Dichlorobenzene       | 10    | 10.4   | ppbv | 104 |     |      | 70  | 130            |     |
|               | 1,2-Dichlorobenzene       | 10    | 10.0   | ppbv | 100 |     |      | 70  | 130            |     |
|               | 1,2,4-Trichlorobenzene    | 10    | 11.0   | ppbv | 110 |     |      | 70  | 130            |     |
|               | Hexachloro-1,3-butadiene  | 10    | 8.80   | ppbv | 88  |     |      | 70  | 130            |     |
|               | Naphthalene               | 10    | 13.3   | ppbv | 133 | *   |      | 70  | 130            |     |
|               | 1,3-Butadiene             | 10    | 9.80   | ppbv | 98  |     |      | 70  | 130            |     |
|               | 4-Ethyltoluene            | 10    | 11.2   | ppbv | 112 |     |      | 70  | 130            |     |
|               | Hexane                    | 10    | 9.60   | ppbv | 96  |     |      | 70  | 130            |     |
|               | Allyl Chloride            | 10    | 9.70   | ppbv | 97  |     |      | 70  | 130            |     |
|               | 1,4-Dioxane               | 10    | 10.9   | ppbv | 109 |     |      | 70  | 130            |     |
|               | Benzyl Chloride           | 10    | 6.20   | ppbv | 62  | *   |      | 70  | 130            |     |
|               | Methyl methacrylate       | 10    | 10.9   | ppbv | 109 |     |      | 70  | 130            |     |

## Duplicate Sample Summary

|                               |                  |                  |
|-------------------------------|------------------|------------------|
| <b>Lab Sample Id :</b>        | P4911-02DUP      | P4911-02         |
| <b>Client Id :</b>            | IA1DUP           | IA1              |
| <b>DF :</b>                   | 1                | 1                |
| <b>Datafile :</b>             | VL041706.D       | VL041705.D       |
| <b>Anal Date &amp; Time :</b> | 11/20/2024 19:15 | 11/20/2024 18:35 |

| Parameter                      | Result | Result | RPD |
|--------------------------------|--------|--------|-----|
| 1,1,1-Trichloroethane          | 0      | 0      | 0   |
| 1,1,2,2-Tetrachloroethane      | 0      | 0      | 0   |
| 1,1,2-Trichloroethane          | 0      | 0      | 0   |
| 1,1,2-Trichlorotrifluoroethane | 0      | 0      | 0   |
| 1,1-Dichloroethane             | 0      | 0      | 0   |
| 1,1-Dichloroethene             | 0      | 0      | 0   |
| 1,2,4-Trichlorobenzene         | 0      | 0      | 0   |
| 1,2,4-Trimethylbenzene         | 0      | 0      | 0   |
| 1,2-Dibromoethane              | 0      | 0      | 0   |
| 1,2-Dichlorobenzene            | 0      | 0      | 0   |
| 1,2-Dichloroethane             | 0      | 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                     | 0.42   | 0.39   | 7.4 |
| 2-Chlorotoluene                | 0      | 0      | 0   |
| 2-Hexanone                     | 0      | 0      | 0   |
| 4-Ethyltoluene                 | 0      | 0      | 0   |
| 4-Methyl-2-Pentanone           | 0      | 0      | 0   |
| Acetone                        | 8.2    | 7.7    | 6.3 |
| Allyl Chloride                 | 0      | 0      | 0   |
| Benzene                        | 0.38   | 0.36   | 5.4 |
| Benzyl Chloride                | 0      | 0      | 0   |
| Bromodichloromethane           | 0      | 0      | 0   |
| Bromoethene                    | 0      | 0      | 0   |
| Bromoform                      | 0      | 0      | 0   |
|                                |        |        |     |

## Duplicate Sample Summary

|                               |                  |                  |
|-------------------------------|------------------|------------------|
| <b>Lab Sample Id :</b>        | P4911-02DUP      | P4911-02         |
| <b>Client Id :</b>            | IA1DUP           | IA1              |
| <b>DF :</b>                   | 1                | 1                |
| <b>Datafile :</b>             | VL041706.D       | VL041705.D       |
| <b>Anal Date &amp; Time :</b> | 11/20/2024 19:15 | 11/20/2024 18:35 |

| Parameter                 | Result | Result | RPD   |
|---------------------------|--------|--------|-------|
| Bromomethane              | 0      | 0      | 0     |
| Carbon Disulfide          | 0      | 0      | 0     |
| Carbon Tetrachloride      | 0.06   | 0.06   | 0     |
| Chlorobenzene             | 0      | 0      | 0     |
| Chlorodifluoromethane     | 0.31   | 0.33   | 6.3   |
| Chloroethane              | 0      | 0      | 0     |
| Chloroform                | 0      | 0      | 0     |
| Chloromethane             | 0.5    | 0.46   | 8.3   |
| cis-1,2-Dichloroethene    | 0      | 0      | 0     |
| cis-1,3-Dichloropropene   | 0      | 0      | 0     |
| Cyclohexane               | 0      | 0      | 0     |
| Dibromochloromethane      | 0      | 0      | 0     |
| Dichlorodifluoromethane   | 0.77   | 0.64   | 18.4  |
| Dichlorotetrafluoroethane | 0      | 0      | 0     |
| Ethanol                   | 310    | 300    | 3.3   |
| Ethyl Acetate             | 0      | 0      | 0     |
| Ethyl Benzene             | 0      | 0      | 0     |
| Heptane                   | 0      | 0      | 0     |
| Hexachloro-1,3-Butadiene  | 0      | 0      | 0     |
| Hexane                    | 1.1    | 0.99   | 10.5  |
| Isopropyl Alcohol         | 16.4   | 16.2   | 1.2   |
| Isopropylbenzene          | 0.12   | 0.13   | 8     |
| m/p-Xylene                | 0.17   | 0      | 200 * |
| Methyl Methacrylate       | 0      | 0      | 0     |
| Methyl tert-Butyl Ether   | 0      | 0      | 0     |
| Methylene Chloride        | 2.3    | 2.1    | 9.1   |
| Naphthalene               | 0      | 0      | 0     |
| o-Xylene                  | 0      | 0      | 0     |
| Propene                   | 1.8    | 1.6    | 11.8  |
| Styrene                   | 0      | 0      | 0     |
| t-1,3-Dichloropropene     | 0      | 0      | 0     |

### Duplicate Sample Summary

|                               |                  |                  |
|-------------------------------|------------------|------------------|
| <b>Lab Sample Id :</b>        | P4911-02DUP      | P4911-02         |
| <b>Client Id :</b>            | IA1DUP           | IA1              |
| <b>DF :</b>                   | 1                | 1                |
| <b>Datafile :</b>             | VL041706.D       | VL041705.D       |
| <b>Anal Date &amp; Time :</b> | 11/20/2024 19:15 | 11/20/2024 18:35 |

| Parameter                | Result | Result | RPD |
|--------------------------|--------|--------|-----|
| tert-Butyl alcohol       | 0      | 0      | 0   |
| Tetrachloroethene        | 0.03   | 0.03   | 0   |
| Tetrahydrofuran          | 0      | 0      | 0   |
| Toluene                  | 0.43   | 0.41   | 4.8 |
| trans-1,2-Dichloroethene | 0      | 0      | 0   |
| Trichloroethene          | 0      | 0      | 0   |
| Trichlorofluoromethane   | 0.23   | 0.21   | 9.1 |
| Vinyl Acetate            | 0      | 0      | 0   |
| Vinyl Chloride           | 0      | 0      | 0   |
|                          |        |        |     |

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL1120ABL01

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4633

SAS No.: P4633 SDG NO.: P4633

Lab File ID: VL041698.D

Lab Sample ID: VL1120ABL01

Date Analyzed: 11/20/2024

Time Analyzed: 12:36

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 |
|-------------------|------------------|----------------|------------------|
| VL1120ABS01       | VL1120ABS01      | VL041699.D     | 11/20/2024       |
| E070-1100         | P4633-01         | VL041701.D     | 11/20/2024       |
| IA1DUP            | P4911-02DUP      | VL041706.D     | 11/20/2024       |

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



VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL1121ABL01

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4633

SAS No.: P4633 SDG NO.: P4633

Lab File ID: VL041712.D

Lab Sample ID: VL1121ABL01

Date Analyzed: 11/21/2024

Time Analyzed: 09:38

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 |
|-------------------|------------------|----------------|------------------|
| VL1121ABS01       | VL1121ABS01      | VL041713.D     | 11/21/2024       |
| E070-1100DL       | P4633-01DL       | VL041714.D     | 11/21/2024       |
| E070-1100DL2      | P4633-01DL2      | VL041715.D     | 11/21/2024       |

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CHEM02  
Lab Code: CHEM Case No.: P4633 SAS No.: P4633 SDG NO.: P4633  
Lab File ID: VL041672.D BFB Injection Date: 11/07/2024  
Instrument ID: MSVOA\_L BFB Injection Time: 08:58  
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             | 24.6                 |
| 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              | 7                    |
| 173 | Less than 2.0% of mass 174         | 0.0 ( 0.0 ) 1        |
| 174 | 50.0 - 120.0% of mass 95           | 67.4                 |
| 175 | 4.0 - 9.0% of mass 174             | 5.1 ( 7.5 ) 1        |
| 176 | 93.0 - 101.0% of mass 174          | 64.3 ( 95.3 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.1 ( 6.4 ) 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      | VL041674.D     | 11/07/2024       | 10:15            |
| VSTDICCC002       | VSTDICCC002      | VL041675.D     | 11/07/2024       | 10:55            |
| VSTDICCC001       | VSTDICCC001      | VL041676.D     | 11/07/2024       | 11:34            |
| VSTDICCC0.5       | VSTDICCC0.5      | VL041677.D     | 11/07/2024       | 12:13            |
| VSTDICCC0.1       | VSTDICCC0.1      | VL041678.D     | 11/07/2024       | 12:52            |
| VSTDICCC0.03      | VSTDICCC0.03     | VL041679.D     | 11/07/2024       | 13:31            |
| VSTDICCC015       | VSTDICCC015      | VL041680.D     | 11/07/2024       | 14:12            |

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CHEM02  
Lab Code: CHEM Case No.: P4633 SAS No.: P4633 SDG NO.: P4633  
Lab File ID: VL041696.D BFB Injection Date: 11/20/2024  
Instrument ID: MSVOA\_L BFB Injection Time: 07:31  
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             | 24.4                 |
| 75  | 30.0 - 66.0% of mass 95            | 55.7                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.8                  |
| 173 | Less than 2.0% of mass 174         | 0.2 ( 0.3 ) 1        |
| 174 | 50.0 - 120.0% of mass 95           | 67.2                 |
| 175 | 4.0 - 9.0% of mass 174             | 5.3 ( 7.9 ) 1        |
| 176 | 93.0 - 101.0% of mass 174          | 64.9 ( 96.5 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.4 ( 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 |
|-------------------|------------------|----------------|------------------|------------------|
| VSTDCCC010        | VSTDCCC010       | VL041697.D     | 11/20/2024       | 08:09            |
| VL1120ABL01       | VL1120ABL01      | VL041698.D     | 11/20/2024       | 12:36            |
| VL1120ABS01       | VL1120ABS01      | VL041699.D     | 11/20/2024       | 13:15            |
| E070-1100         | P4633-01         | VL041701.D     | 11/20/2024       | 15:54            |
| IA1DUP            | P4911-02DUP      | VL041706.D     | 11/20/2024       | 19:15            |

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CHEM02  
Lab Code: CHEM Case No.: P4633 SAS No.: P4633 SDG NO.: P4633  
Lab File ID: VL041710.D BFB Injection Date: 11/21/2024  
Instrument ID: MSVOA\_L BFB Injection Time: 08:12  
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             | 24.7                 |
| 75  | 30.0 - 66.0% of mass 95            | 56.2                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.9                  |
| 173 | Less than 2.0% of mass 174         | 0.4 ( 0.6 ) 1        |
| 174 | 50.0 - 120.0% of mass 95           | 68.4                 |
| 175 | 4.0 - 9.0% of mass 174             | 5 ( 7.3 ) 1          |
| 176 | 93.0 - 101.0% of mass 174          | 66.2 ( 96.8 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.3 ( 6.5 ) 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       | VL041711.D     | 11/21/2024       | 08:50            |
| VL1121ABL01       | VL1121ABL01      | VL041712.D     | 11/21/2024       | 09:38            |
| VL1121ABS01       | VL1121ABS01      | VL041713.D     | 11/21/2024       | 10:16            |
| E070-1100DL       | P4633-01DL       | VL041714.D     | 11/21/2024       | 14:12            |
| E070-1100DL2      | P4633-01DL2      | VL041715.D     | 11/21/2024       | 15:06            |

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CHEM02  
Lab Code: CHEM Case No.: P4633 SAS No.: P4633 SDG NO.: P4633  
Lab File ID: VL041697.D Date Analyzed: 11/20/2024  
Instrument ID: MSVOA\_L Time Analyzed: 08:09  
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    | 1123470       | 5.21 | 3154540       | 6.67 | 3148630       | 11.48 |
| UPPER LIMIT    | 1572850       | 5.54 | 4416350       | 7.00 | 4408080       | 11.81 |
| LOWER LIMIT    | 674080        | 4.88 | 1892720       | 6.34 | 1889180       | 11.15 |
| EPA SAMPLE NO. |               |      |               |      |               |       |
| E070-1100      | 995553        | 5.21 | 2742439       | 6.67 | 2469424       | 11.48 |
| IA1DUP         | 985172        | 5.21 | 2701411       | 6.67 | 2316943       | 11.49 |
| VL1120ABL01    | 1071128       | 5.21 | 3057945       | 6.67 | 2649975       | 11.48 |
| VL1120ABS01    | 1163679       | 5.21 | 3239097       | 6.67 | 3236609       | 11.48 |

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: CHEM02  
Lab Code: CHEM Case No.: P4633 SAS No.: P4633 SDG NO.: P4633  
Lab File ID: VL041711.D Date Analyzed: 11/21/2024  
Instrument ID: MSVOA\_L Time Analyzed: 08:50  
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    | 1173710       | 5.22 | 3217570       | 6.68 | 2996510       | 11.50 |
| UPPER LIMIT    | 1643200       | 5.55 | 4504590       | 7.01 | 4195110       | 11.83 |
| LOWER LIMIT    | 704228        | 4.89 | 1930540       | 6.35 | 1797900       | 11.17 |
| EPA SAMPLE NO. |               |      |               |      |               |       |
| E070-1100DL    | 1043249       | 5.23 | 2930669       | 6.69 | 2692925       | 11.50 |
| E070-1100DL2   | 1063727       | 5.23 | 2922287       | 6.69 | 2654968       | 11.50 |
| VL1121ABL01    | 1172035       | 5.22 | 3184705       | 6.68 | 2717854       | 11.50 |
| VL1121ABS01    | 1134955       | 5.23 | 3168983       | 6.69 | 2890162       | 11.50 |

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

## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: | 10/25/24     |
| Project:           | NJ Air PT                 | Date Received:  | 10/30/24     |
| Client Sample ID:  | E070-1100                 | SDG No.:        | P4633        |
| Lab Sample ID:     | P4633-01                  | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400                       | Units:          | mL           |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041701.D        | 1         |           | 11/20/24 15:54 | VL112024      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-45-6        | Chlorodifluoromethane          | 0.090         | 0.32           | U         | 0.32  | 1.77       | ug/m3 |
| 75-71-8        | Dichlorodifluoromethane        | 0.21          | 1.04           | U         | 1.04  | 2.47       | ug/m3 |
| 64-17-5        | Ethanol                        | 0.32          | 0.60           | U         | 0.60  | 0.94       | 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 |
| 141-78-6       | Ethyl Acetate                  | 0.080         | 0.32           | U         | 0.32  | 1.98       | ug/m3 |
| 74-83-9        | Bromomethane                   | 0.14          | 0.54           | U         | 0.54  | 1.94       | ug/m3 |
| 75-00-3        | Chloroethane                   | 57.6          | 152            | E         | 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 |
| 593-60-2       | Bromoethene                    | 0.12          | 0.52           | U         | 0.52  | 2.19       | ug/m3 |
| 115-07-1       | Propene                        | 0.15          | 0.26           | U         | 0.26  | 0.86       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 0.19          | 0.58           | U         | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 26.4          | 108            | E         | 0.45  | 2.05       | ug/m3 |
| 67-63-0        | Isopropyl Alcohol              | 0.070         | 0.17           | U         | 0.17  | 1.23       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 22.4          | 88.8           | E         | 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 |
| 108-05-4       | Vinyl Acetate                  | 0.16          | 0.58           | U         | 0.58  | 1.80       | 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           | 29.2          | 184            | E         | 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 |



## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: | 10/25/24     |
| Project:           | NJ Air PT                 | Date Received:  | 10/30/24     |
| Client Sample ID:  | E070-1100                 | SDG No.:        | P4633        |
| Lab Sample ID:     | P4633-01                  | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400 Units: mL             |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041701.D        | 1         |           | 11/20/24 15:54 | VL112024      |

| CAS Number  | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|-------------|---------------------------|---------------|----------------|-----------|-------|------------|-------|
| 78-87-5     | 1,2-Dichloropropane       | 0.11          | 0.51           | U         | 0.51  | 2.31       | ug/m3 |
| 75-27-4     | Bromodichloromethane      | 21.0          | 141            | E         | 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                   | 44.6          | 168            | E         | 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 |
| 591-78-6    | 2-Hexanone                | 0.080         | 0.33           | U         | 0.33  | 2.04       | ug/m3 |
| 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                | 45.9          | 199            | E         | 0.91  | 4.34       | ug/m3 |
| 1330-20-7   | Total Xylenes             | 84.4          | 367            | E         | 1.43  | 6.52       | ug/m3 |
| 95-47-6     | o-Xylene                  | 38.5          | 167            | E         | 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 |
| 98-82-8     | Isopropylbenzene          | 0.090         | 0.44           | U         | 0.44  | 2.46       | 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       | 33.5          | 201            | E         | 0.48  | 3.01       | ug/m3 |
| 120-82-1    | 1,2,4-Trichlorobenzene    | 27.5          | 204            | E         | 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           | UQ        | 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 |
| 100-44-7    | Benzyl Chloride           | 0.18          | 0.93           | U         | 0.93  | 2.59       | ug/m3 |
| 80-62-6     | Methyl Methacrylate       | 0.090         | 0.37           | U         | 0.37  | 2.05       | ug/m3 |

## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: | 10/25/24     |
| Project:           | NJ Air PT                 | Date Received:  | 10/30/24     |
| Client Sample ID:  | E070-1100                 | SDG No.:        | P4633        |
| Lab Sample ID:     | P4633-01                  | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400      Units:    mL     |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041701.D        | 1         |           | 11/20/24 15:54 | VL112024      |

| CAS Number                | Parameter               | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-------------------------|---------------|----------------|-----------|----------|------------|---------|
| <b>SURROGATES</b>         |                         |               |                |           |          |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene | 10.6          |                |           | 65 - 135 | 106%       | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                         |               |                |           |          |            |         |
| 74-97-5                   | Bromochloromethane      | 996000        |                | 5.211     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene     | 2740000       |                | 6.674     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5        | 2470000       |                | 11.48     |          |            |         |

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\VL112024\  
Data File : VL041701.D  
Acq On : 20 Nov 2024 15:54  
Operator : SY/MD  
Sample : P4633-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100

Quant Time: Nov 21 05:10:48 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 01:01:00 2024  
Response via : Initial Calibration

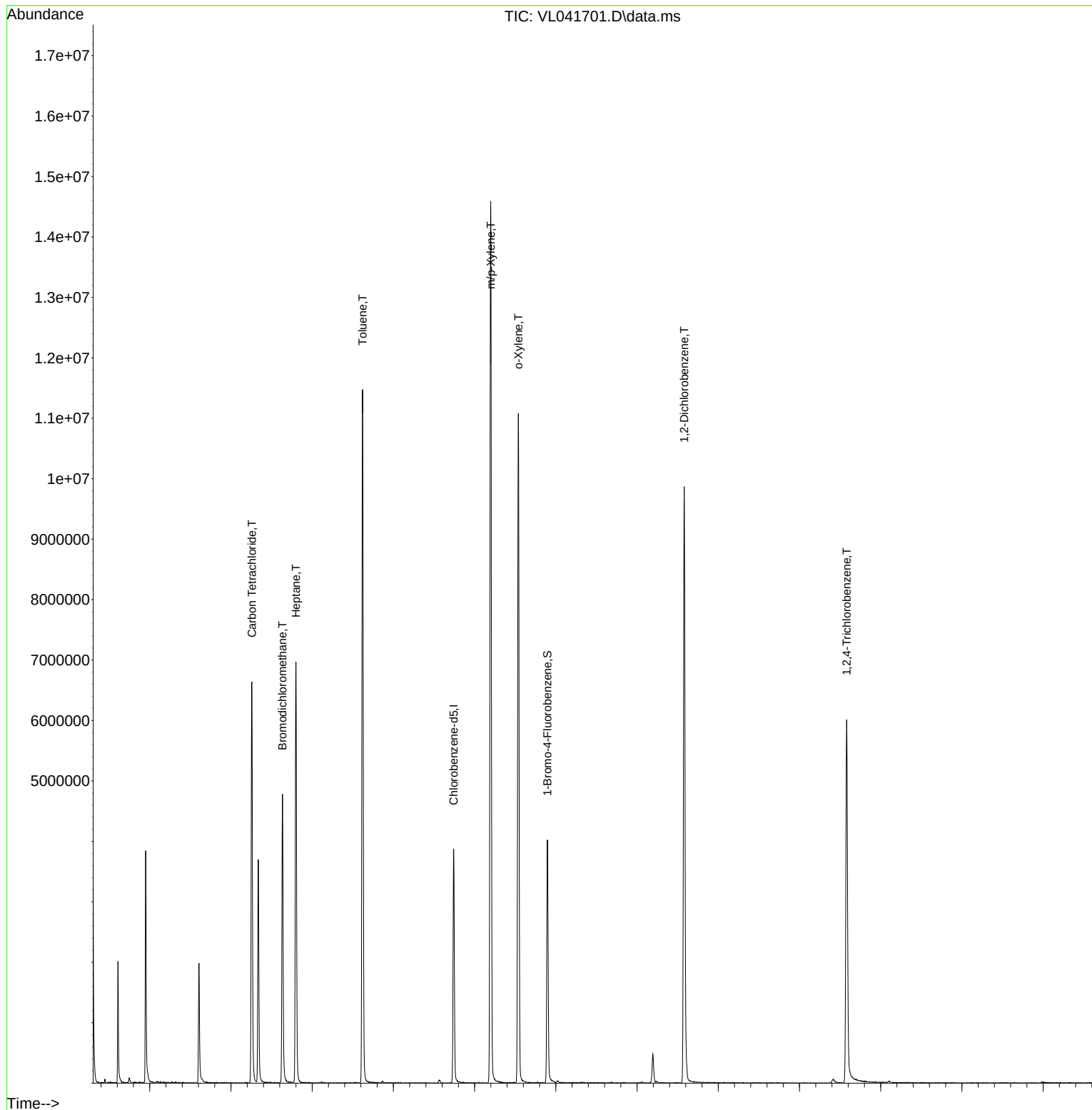
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards          |        |       |          |          |            |          |
| 1) Bromochloromethane       | 5.211  | 49    | 995553   | 10.000   | ppbv       | 0.02     |
| 33) 1,4-Difluorobenzene     | 6.674  | 114   | 2742439  | 10.000   | ppbv       | 0.02     |
| 55) Chlorobenzene-d5        | 11.484 | 117   | 2469424  | 10.000   | ppbv       | 0.02     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.793 | 95    | 1923146  | 10.570   | ppbv       | 0.02     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | = 105.700% |          |
| Target Compounds            |        |       |          |          |            | Qvalue   |
| 7) Chloroethane             | 3.218  | 64    | 1298494  | 57.565   | ppbv       | 99       |
| 10) Heptane                 | 7.600  | 43    | 3348007  | 26.435   | ppbv       | 99       |
| 18) 1,1-Dichloroethene      | 3.902  | 96    | 1117194  | 22.360   | ppbv       | 98       |
| 35) Carbon Tetrachloride    | 6.513  | 117   | 4228471  | 29.224   | ppbv       | 99       |
| 42) Bromodichloromethane    | 7.269  | 83    | 3336894  | 20.947   | ppbv       | 100      |
| 53) Toluene                 | 9.240  | 91    | 9520444  | 44.554   | ppbv       | 95       |
| 59) m/p-Xylene              | 12.397 | 91    | 11129849 | 45.909   | ppbv       | 90       |
| 60) o-Xylene                | 13.079 | 91    | 8888252  | 38.448   | ppbv       | 97       |
| 77) 1,2-Dichlorobenzene     | 17.162 | 146   | 5621685  | 33.447   | ppbv       | 100      |
| 81) 1,2,4-Trichlorobenzene  | 21.162 | 180   | 2922058  | 27.478   | ppbv       | 98       |

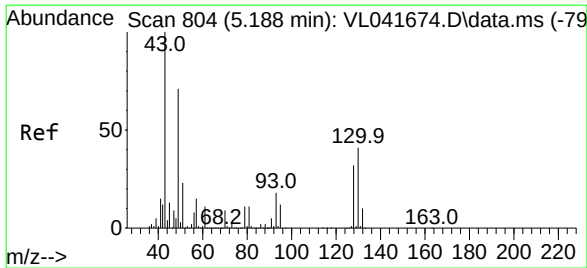
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112024\  
Data File : VL041701.D  
Acq On : 20 Nov 2024 15:54  
Operator : SY/MD  
Sample : P4633-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100

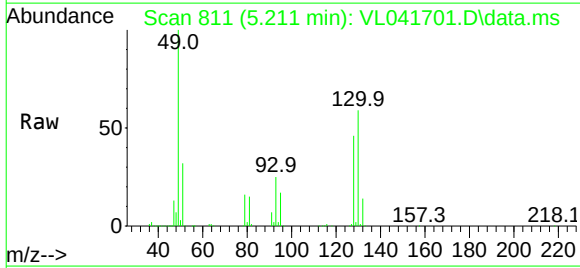
Quant Time: Nov 21 05:10:48 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 01:01:00 2024  
Response via : Initial Calibration



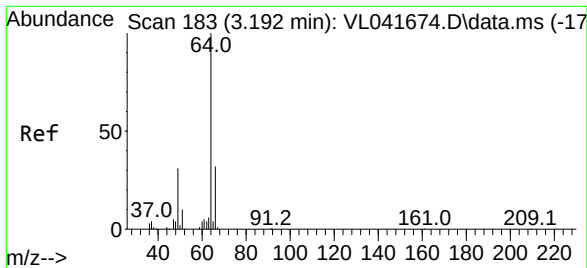
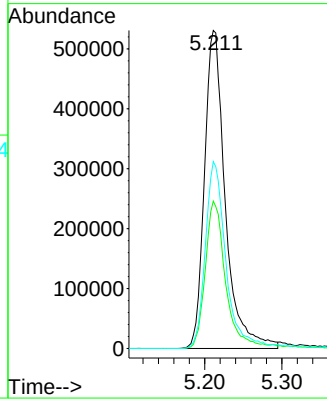
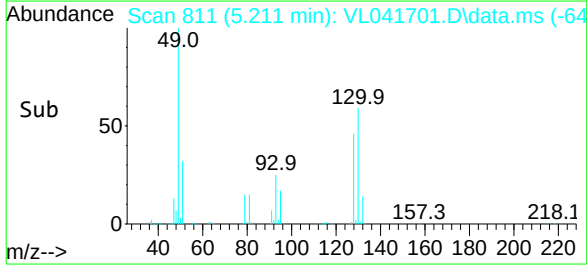


#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.211 min Scan# 81  
Delta R.T. 0.023 min  
Lab File: VL041701.D  
Acq: 20 Nov 2024 15:54

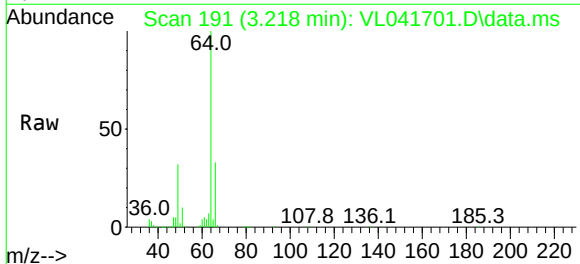
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100



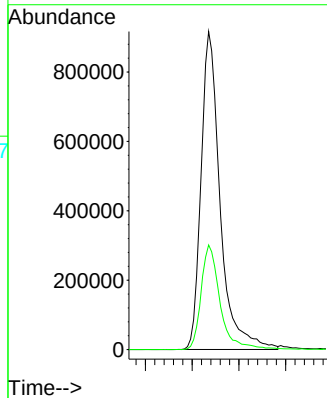
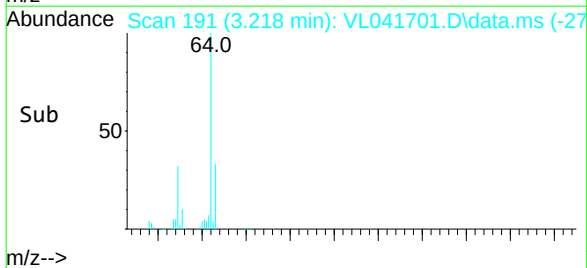
Tgt Ion: 49 Resp: 995553  
Ion Ratio Lower Upper  
49 100  
128 46.5 23.8 71.2  
130 60.1 30.1 90.5

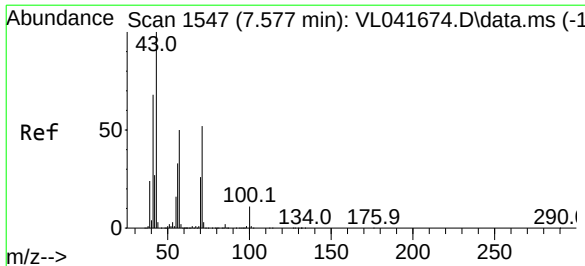


#7  
Chloroethane  
Concen: 57.565 ppbv  
RT: 3.218 min Scan# 191  
Delta R.T. 0.026 min  
Lab File: VL041701.D  
Acq: 20 Nov 2024 15:54



Tgt Ion: 64 Resp: 1298494  
Ion Ratio Lower Upper  
64 100  
66 32.9 25.9 38.9

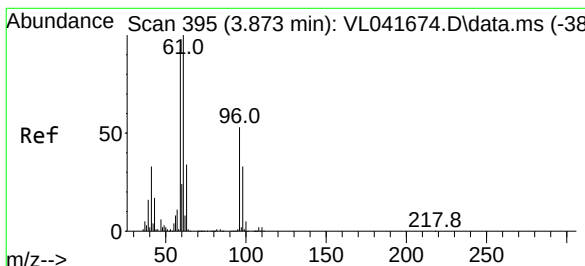
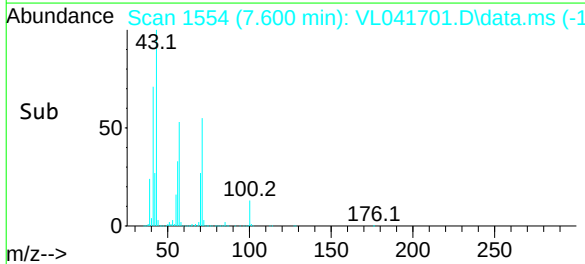
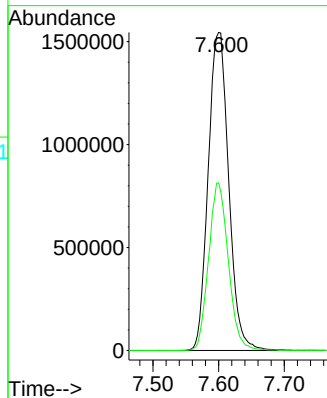
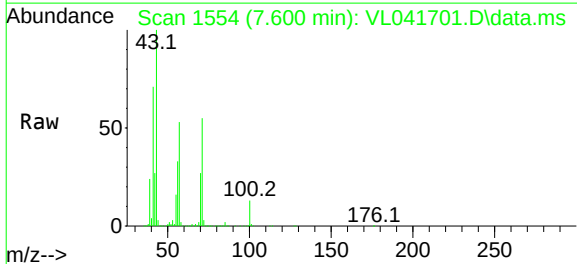




#10  
Heptane  
Concen: 26.435 ppbv  
RT: 7.600 min Scan# 15  
Delta R.T. 0.023 min  
Lab File: VL041701.D  
Acq: 20 Nov 2024 15:54

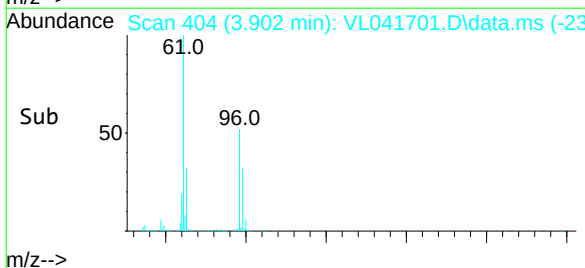
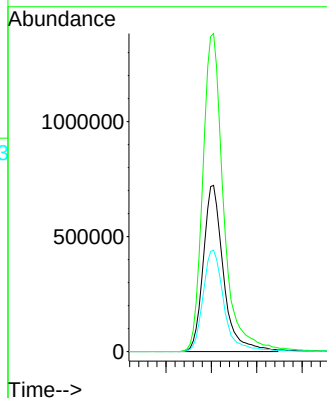
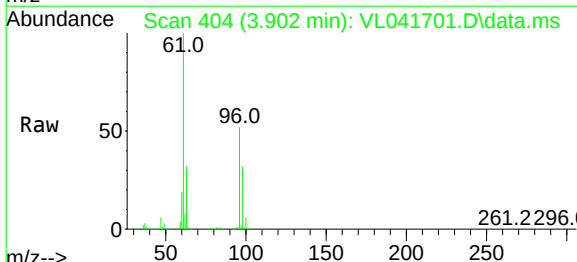
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100

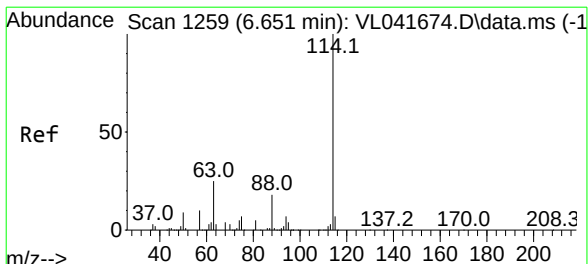
Tgt Ion: 43 Resp: 3348007  
Ion Ratio Lower Upper  
43 100  
57 50.8 40.0 60.0



#18  
1,1-Dichloroethene  
Concen: 22.360 ppbv  
RT: 3.902 min Scan# 404  
Delta R.T. 0.029 min  
Lab File: VL041701.D  
Acq: 20 Nov 2024 15:54

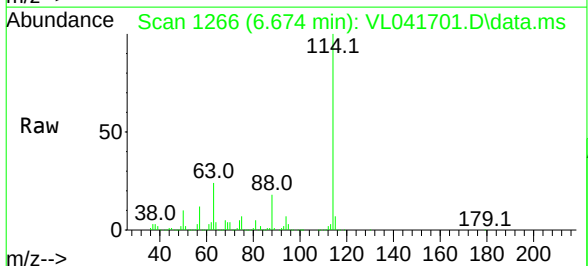
Tgt Ion: 96 Resp: 1117194  
Ion Ratio Lower Upper  
96 100  
61 191.4 150.7 226.1  
98 61.0 49.4 74.2





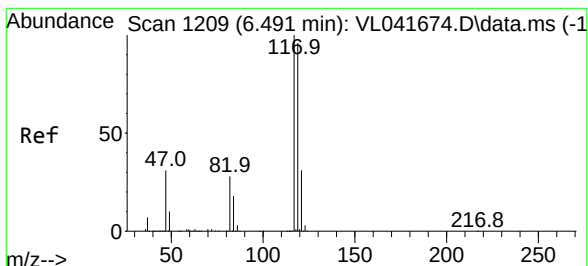
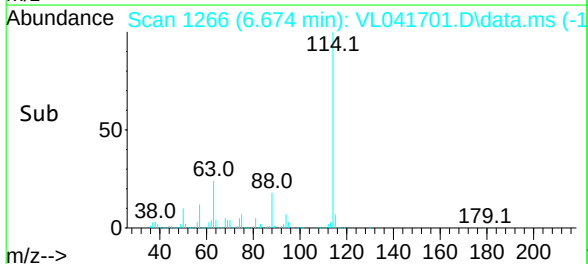
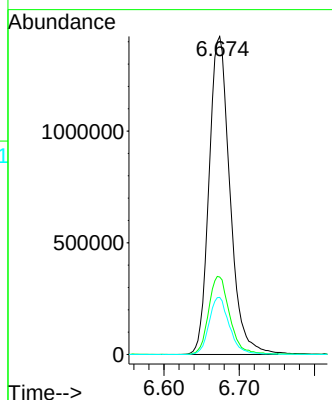
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 6.674 min Scan# 1216  
 Delta R.T. 0.023 min  
 Lab File: VL041701.D  
 Acq: 20 Nov 2024 15:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 E070-1100



Tgt Ion: 114 Resp: 2742439

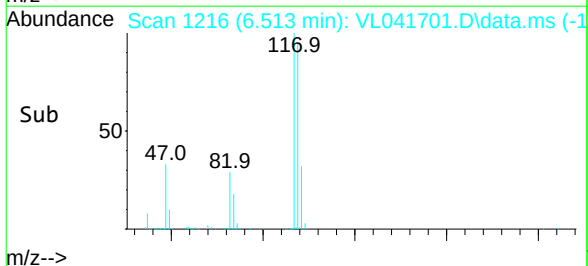
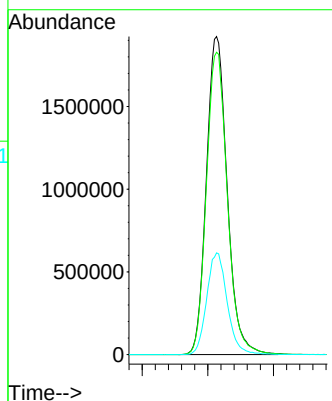
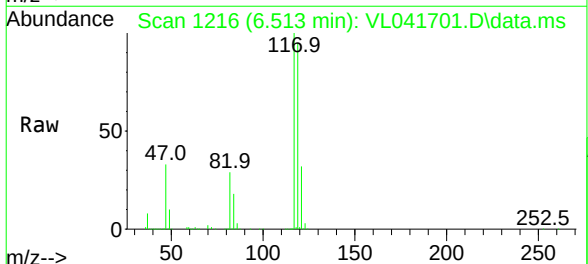
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 24.8  | 20.3  | 30.5  |
| 88  | 17.6  | 14.2  | 21.4  |

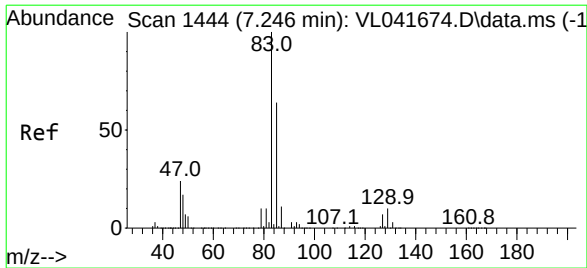


#35  
 Carbon Tetrachloride  
 Concen: 29.224 ppbv  
 RT: 6.513 min Scan# 1216  
 Delta R.T. 0.023 min  
 Lab File: VL041701.D  
 Acq: 20 Nov 2024 15:54

Tgt Ion: 117 Resp: 4228471

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 95.0  | 77.2  | 115.8 |
| 121 | 32.0  | 25.0  | 37.4  |

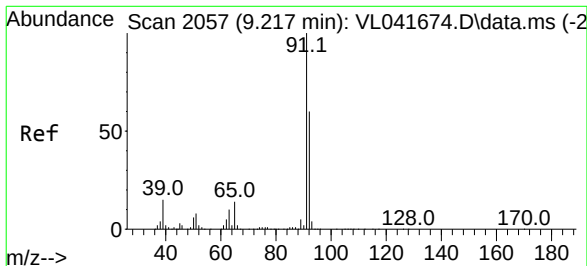
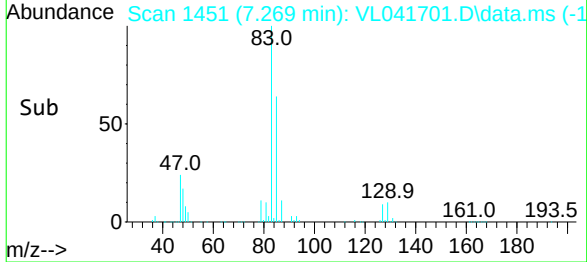
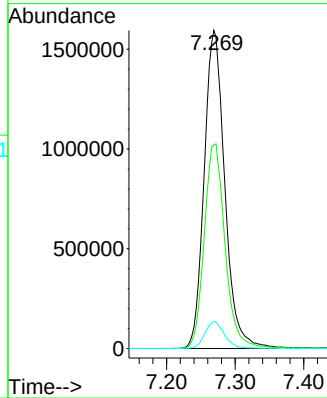
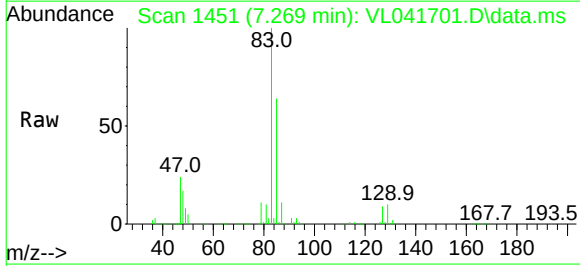




#42  
Bromodichloromethane  
Concen: 20.947 ppbv  
RT: 7.269 min Scan# 14  
Delta R.T. 0.023 min  
Lab File: VL041701.D  
Acq: 20 Nov 2024 15:54

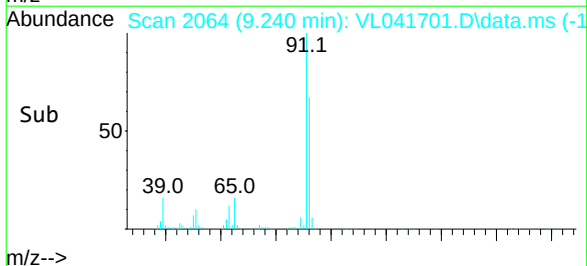
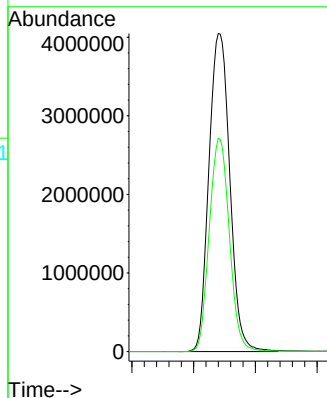
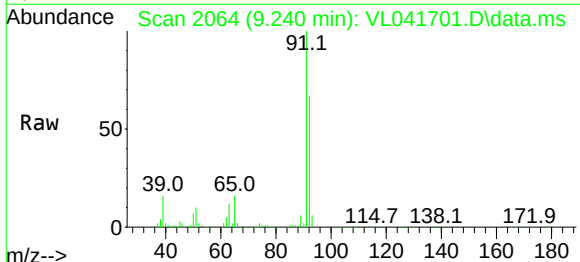
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100

Tgt Ion: 83 Resp: 3336894  
Ion Ratio Lower Upper  
83 100  
85 63.9 51.2 76.8  
127 8.5 6.0 9.0

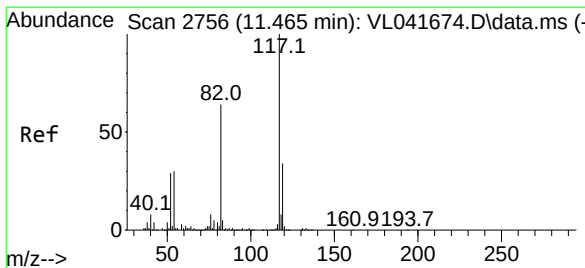


#53  
Toluene  
Concen: 44.554 ppbv  
RT: 9.240 min Scan# 2064  
Delta R.T. 0.023 min  
Lab File: VL041701.D  
Acq: 20 Nov 2024 15:54

Tgt Ion: 91 Resp: 9520444  
Ion Ratio Lower Upper  
91 100  
92 64.8 49.0 73.4







#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.484 min Scan# 27

Delta R.T. 0.019 min

Lab File: VL041701.D

Acq: 20 Nov 2024 15:54

Instrument :

MSVOA\_L

ClientSampleId :

E070-1100

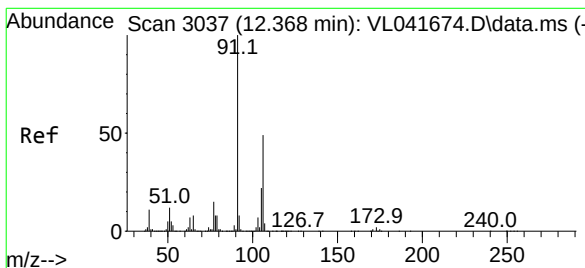
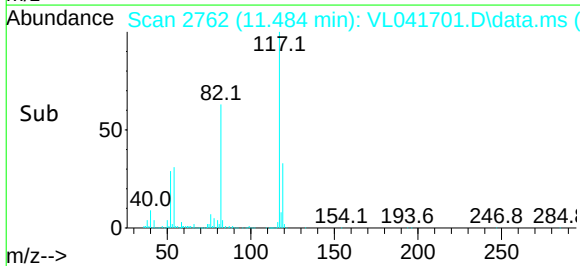
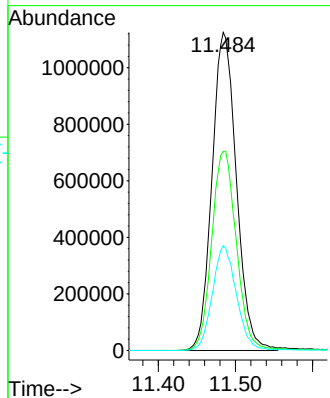
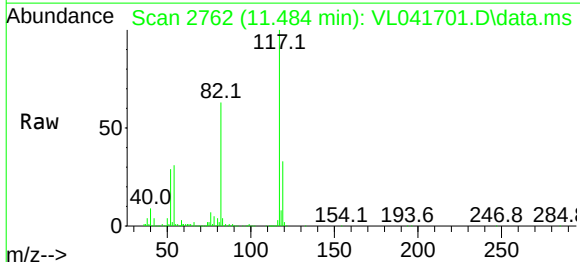
Tgt Ion:117 Resp: 2469424

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 117 | 100 |  |  |
|-----|-----|--|--|

|    |      |      |      |
|----|------|------|------|
| 82 | 63.8 | 49.8 | 74.8 |
|----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 119 | 32.7 | 24.2 | 36.4 |
|-----|------|------|------|



#59

m/p-Xylene

Concen: 45.909 ppbv

RT: 12.397 min Scan# 3046

Delta R.T. 0.029 min

Lab File: VL041701.D

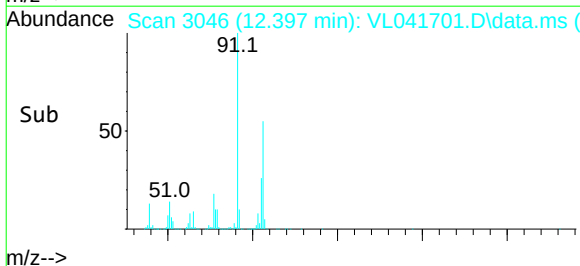
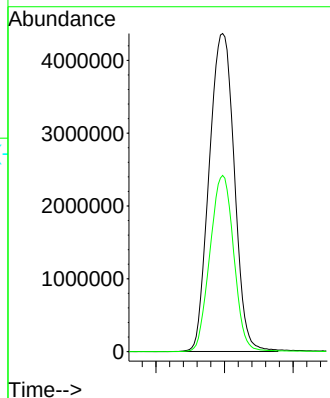
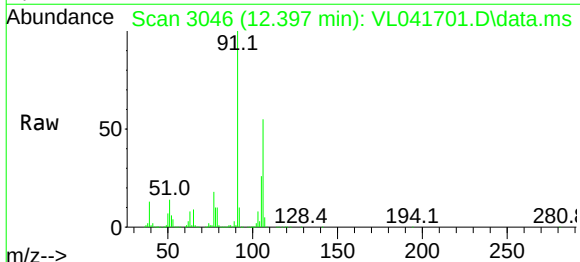
Acq: 20 Nov 2024 15:54

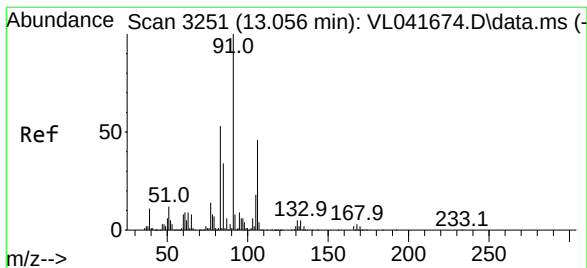
Tgt Ion: 91 Resp:11129849

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|    |     |  |  |
|----|-----|--|--|
| 91 | 100 |  |  |
|----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 106 | 52.6 | 36.9 | 55.3 |
|-----|------|------|------|





#60

o-Xylene

Concen: 38.448 ppbv

RT: 13.079 min Scan# 32

Delta R.T. 0.023 min

Lab File: VL041701.D

Acq: 20 Nov 2024 15:54

Instrument :

MSVOA\_L

ClientSampleId :

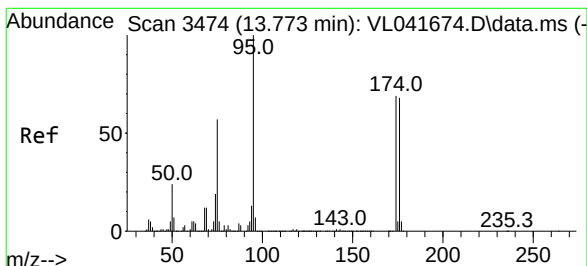
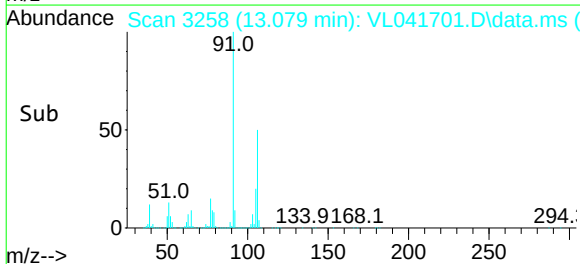
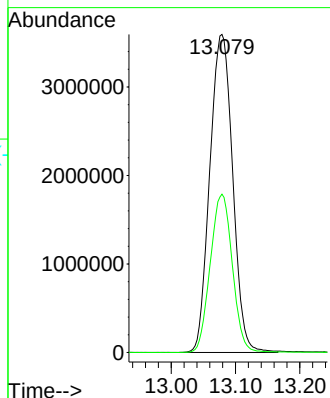
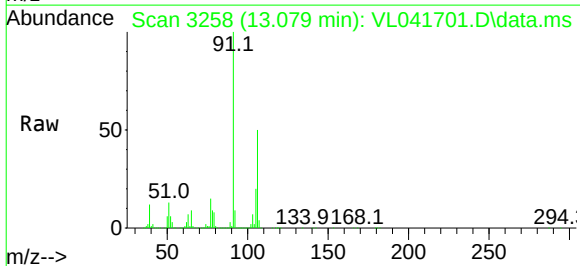
E070-1100

Tgt Ion: 91 Resp: 8888252

Ion Ratio Lower Upper

91 100

106 48.2 23.2 69.6



#68

1-Bromo-4-Fluorobenzene

Concen: 10.570 ppbv

RT: 13.793 min Scan# 3480

Delta R.T. 0.019 min

Lab File: VL041701.D

Acq: 20 Nov 2024 15:54

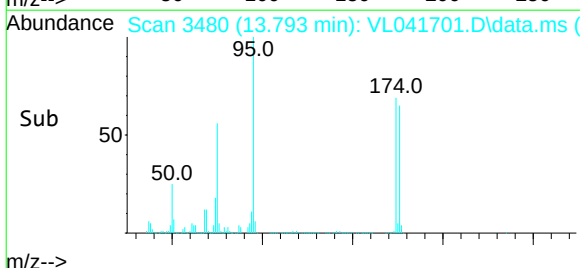
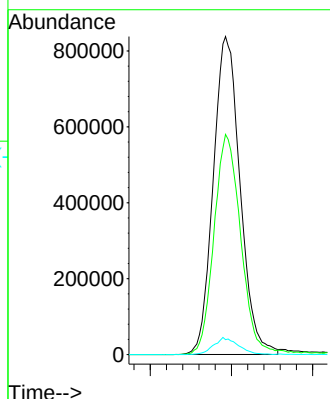
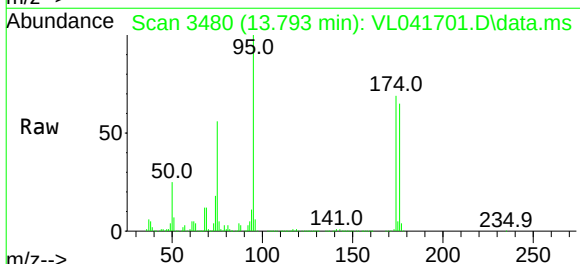
Tgt Ion: 95 Resp: 1923146

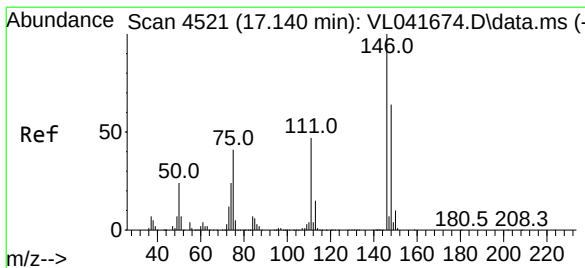
Ion Ratio Lower Upper

95 100

174 70.2 55.6 83.4

175 5.1 4.2 6.2





#77

1,2-Dichlorobenzene

Concen: 33.447 ppbv

RT: 17.162 min Scan# 45

Delta R.T. 0.023 min

Lab File: VL041701.D

Acq: 20 Nov 2024 15:54

Instrument :

MSVOA\_L

ClientSampleId :

E070-1100

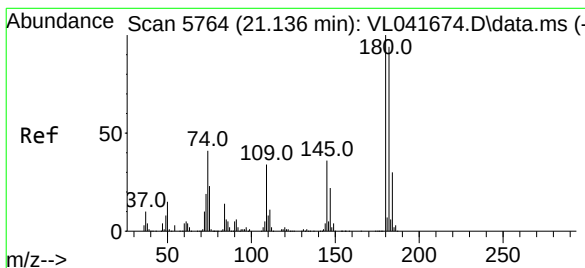
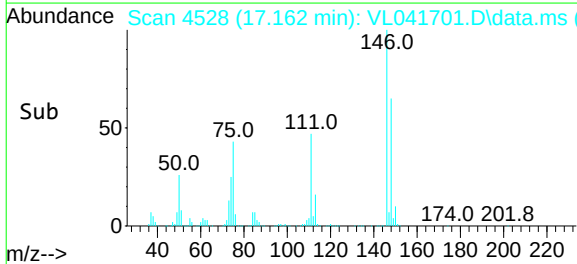
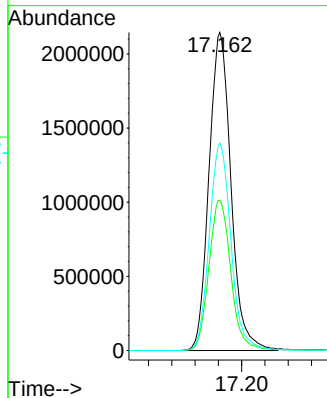
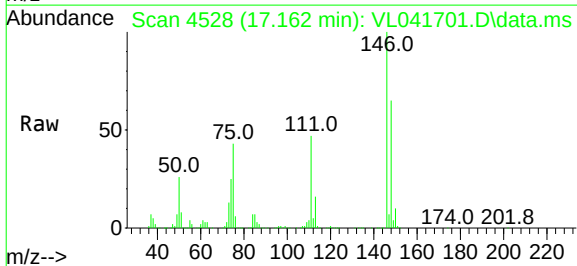
Tgt Ion:146 Resp: 5621685

Ion Ratio Lower Upper

146 100

111 47.3 23.4 70.3

148 64.5 32.1 96.5



#81

1,2,4-Trichlorobenzene

Concen: 27.478 ppbv

RT: 21.162 min Scan# 5772

Delta R.T. 0.026 min

Lab File: VL041701.D

Acq: 20 Nov 2024 15:54

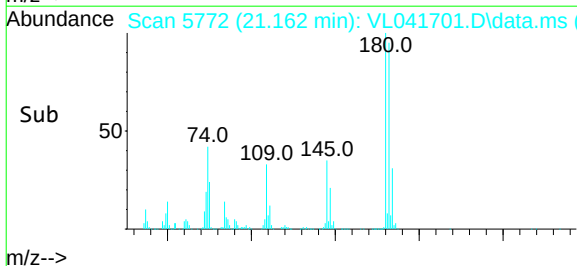
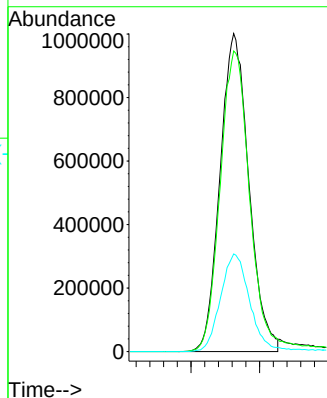
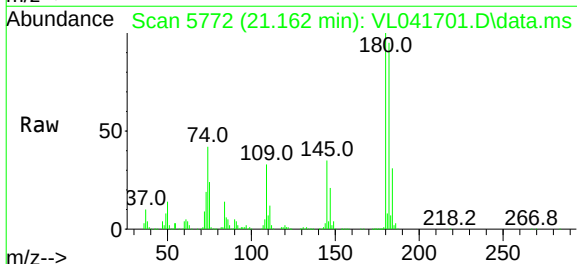
Tgt Ion:180 Resp: 2922058

Ion Ratio Lower Upper

180 100

182 99.9 78.2 117.2

184 31.8 25.0 37.4



## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: | 10/25/24     |
| Project:           | NJ Air PT                 | Date Received:  | 10/30/24     |
| Client Sample ID:  | E070-1100DL               | SDG No.:        | P4633        |
| Lab Sample ID:     | P4633-01DL                | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400 Units: mL             |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041714.D        | 2         |           | 11/21/24 14:12 | VL112124      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-45-6        | Chlorodifluoromethane          | 0.18          | 0.64           | UD        | 0.64  | 3.54       | ug/m3 |
| 75-71-8        | Dichlorodifluoromethane        | 0.42          | 2.08           | UD        | 2.08  | 4.94       | ug/m3 |
| 64-17-5        | Ethanol                        | 0.64          | 1.21           | UDQ       | 1.21  | 1.88       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.20          | 0.41           | UD        | 0.41  | 2.07       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 0.030         | 0.080          | UD        | 0.080 | 0.15       | ug/m3 |
| 141-78-6       | Ethyl Acetate                  | 0.16          | 0.63           | UD        | 0.63  | 3.97       | ug/m3 |
| 74-83-9        | Bromomethane                   | 0.28          | 1.09           | UD        | 1.09  | 3.88       | ug/m3 |
| 75-00-3        | Chloroethane                   | 51.6          | 136            | ED        | 0.90  | 2.64       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 0.26          | 0.77           | UD        | 0.77  | 2.95       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 0.32          | 1.80           | UD        | 1.80  | 5.62       | ug/m3 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.32          | 2.45           | UD        | 2.45  | 7.66       | ug/m3 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.18          | 1.26           | UD        | 1.26  | 6.99       | ug/m3 |
| 593-60-2       | Bromoethene                    | 0.24          | 1.05           | UD        | 1.05  | 4.37       | ug/m3 |
| 115-07-1       | Propene                        | 0.30          | 0.52           | UD        | 0.52  | 1.72       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 0.38          | 1.15           | UD        | 1.15  | 3.03       | ug/m3 |
| 142-82-5       | Heptane                        | 24.2          | 99.2           | D         | 0.90  | 4.10       | ug/m3 |
| 67-63-0        | Isopropyl Alcohol              | 0.14          | 0.34           | UD        | 0.34  | 2.46       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 19.7          | 78.1           | D         | 1.11  | 3.96       | ug/m3 |
| 67-64-1        | Acetone                        | 0.48          | 1.14           | UD        | 1.14  | 2.38       | ug/m3 |
| 75-15-0        | Carbon Disulfide               | 0.32          | 1.00           | UD        | 1.00  | 3.11       | ug/m3 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.24          | 0.87           | UD        | 0.87  | 3.61       | ug/m3 |
| 75-09-2        | Methylene Chloride             | 0.38          | 1.32           | UD        | 1.32  | 3.47       | ug/m3 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.38          | 1.51           | UD        | 1.51  | 3.96       | ug/m3 |
| 108-05-4       | Vinyl Acetate                  | 0.32          | 1.15           | UD        | 1.15  | 3.60       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 0.26          | 1.05           | UD        | 1.05  | 4.05       | ug/m3 |
| 110-82-7       | Cyclohexane                    | 0.44          | 1.51           | UD        | 1.51  | 3.44       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 0.24          | 0.71           | UD        | 0.71  | 2.95       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 27.1          | 170            | D         | 0.13  | 0.38       | ug/m3 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.18          | 0.71           | UD        | 0.71  | 3.96       | ug/m3 |
| 67-66-3        | Chloroform                     | 0.17          | 0.83           | UD        | 0.83  | 4.88       | ug/m3 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.020         | 0.11           | UD        | 0.11  | 0.33       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 0.20          | 0.93           | UD        | 0.93  | 4.67       | ug/m3 |
| 71-43-2        | Benzene                        | 0.17          | 0.54           | UD        | 0.54  | 3.19       | ug/m3 |
| 107-06-2       | 1,2-Dichloroethane             | 0.18          | 0.73           | UD        | 0.73  | 4.05       | ug/m3 |
| 79-01-6        | Trichloroethene                | 0.030         | 0.16           | UDQ       | 0.16  | 0.32       | ug/m3 |

## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: | 10/25/24     |
| Project:           | NJ Air PT                 | Date Received:  | 10/30/24     |
| Client Sample ID:  | E070-1100DL               | SDG No.:        | P4633        |
| Lab Sample ID:     | P4633-01DL                | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400      Units:    mL     |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041714.D        | 2         |           | 11/21/24 14:12 | VL112124      |

| CAS Number  | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL  | LOQ / CRQL | Units |
|-------------|---------------------------|---------------|----------------|-----------|------|------------|-------|
| 78-87-5     | 1,2-Dichloropropane       | 0.22          | 1.02           | UD        | 1.02 | 4.62       | ug/m3 |
| 75-27-4     | Bromodichloromethane      | 18.5          | 124            | D         | 1.00 | 6.70       | ug/m3 |
| 108-10-1    | 4-Methyl-2-Pentanone      | 0.19          | 0.78           | UD        | 0.78 | 4.10       | ug/m3 |
| 108-88-3    | Toluene                   | 42.6          | 161            | ED        | 0.83 | 3.77       | ug/m3 |
| 10061-02-6  | t-1,3-Dichloropropene     | 0.12          | 0.54           | UD        | 0.54 | 4.54       | ug/m3 |
| 10061-01-5  | cis-1,3-Dichloropropene   | 0.13          | 0.59           | UD        | 0.59 | 4.54       | ug/m3 |
| 79-00-5     | 1,1,2-Trichloroethane     | 0.14          | 0.76           | UD        | 0.76 | 5.46       | ug/m3 |
| 591-78-6    | 2-Hexanone                | 0.16          | 0.65           | UD        | 0.65 | 4.09       | ug/m3 |
| 124-48-1    | Dibromochloromethane      | 0.13          | 1.11           | UD        | 1.11 | 8.52       | ug/m3 |
| 106-93-4    | 1,2-Dibromoethane         | 0.14          | 1.08           | UD        | 1.08 | 1.54       | ug/m3 |
| 127-18-4    | Tetrachloroethene         | 0.030         | 0.20           | UD        | 0.20 | 0.41       | ug/m3 |
| 108-90-7    | Chlorobenzene             | 0.15          | 0.69           | UD        | 0.69 | 4.61       | ug/m3 |
| 100-41-4    | Ethyl Benzene             | 0.24          | 1.04           | UD        | 1.04 | 4.34       | ug/m3 |
| 179601-23-1 | m/p-Xylene                | 44.4          | 193            | D         | 1.82 | 8.69       | ug/m3 |
| 1330-20-7   | Total Xylenes             | 80.0          | 347            | D         | 2.87 | 13.0       | ug/m3 |
| 95-47-6     | o-Xylene                  | 35.6          | 155            | ED        | 1.04 | 4.34       | ug/m3 |
| 100-42-5    | Styrene                   | 0.22          | 0.94           | UD        | 0.94 | 4.26       | ug/m3 |
| 75-25-2     | Bromoform                 | 0.11          | 1.14           | UD        | 1.14 | 10.3       | ug/m3 |
| 98-82-8     | Isopropylbenzene          | 0.17          | 0.84           | UD        | 0.84 | 4.92       | ug/m3 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane | 0.020         | 0.14           | UDQ       | 0.14 | 0.41       | ug/m3 |
| 95-49-8     | 2-Chlorotoluene           | 0.22          | 1.14           | UD        | 1.14 | 5.18       | ug/m3 |
| 108-67-8    | 1,3,5-Trimethylbenzene    | 0.22          | 1.08           | UD        | 1.08 | 4.92       | ug/m3 |
| 95-63-6     | 1,2,4-Trimethylbenzene    | 0.16          | 0.79           | UD        | 0.79 | 4.92       | ug/m3 |
| 541-73-1    | 1,3-Dichlorobenzene       | 0.16          | 0.96           | UD        | 0.96 | 6.01       | ug/m3 |
| 106-46-7    | 1,4-Dichlorobenzene       | 0.11          | 0.66           | UD        | 0.66 | 6.01       | ug/m3 |
| 95-50-1     | 1,2-Dichlorobenzene       | 29.8          | 179            | D         | 0.90 | 6.01       | ug/m3 |
| 120-82-1    | 1,2,4-Trichlorobenzene    | 23.4          | 174            | D         | 1.26 | 7.42       | ug/m3 |
| 87-68-3     | Hexachloro-1,3-Butadiene  | 0.17          | 1.81           | UD        | 1.81 | 10.7       | ug/m3 |
| 106-99-0    | 1,3-Butadiene             | 0.26          | 0.58           | UD        | 0.58 | 2.21       | ug/m3 |
| 91-20-3     | Naphthalene               | 0.15          | 0.79           | UDQ       | 0.79 | 1.05       | ug/m3 |
| 622-96-8    | 4-Ethyltoluene            | 0.24          | 1.18           | UD        | 1.18 | 4.92       | ug/m3 |
| 110-54-3    | Hexane                    | 0.22          | 0.78           | UD        | 0.78 | 3.52       | ug/m3 |
| 107-05-1    | Allyl Chloride            | 0.30          | 0.94           | UD        | 0.94 | 3.13       | ug/m3 |
| 123-91-1    | 1,4-Dioxane               | 0.42          | 1.51           | UD        | 1.51 | 3.60       | ug/m3 |
| 100-44-7    | Benzyl Chloride           | 0.36          | 1.86           | UDQ       | 1.86 | 5.18       | ug/m3 |
| 80-62-6     | Methyl Methacrylate       | 0.17          | 0.70           | UD        | 0.70 | 4.09       | ug/m3 |

## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: | 10/25/24     |
| Project:           | NJ Air PT                 | Date Received:  | 10/30/24     |
| Client Sample ID:  | E070-1100DL               | SDG No.:        | P4633        |
| Lab Sample ID:     | P4633-01DL                | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400      Units:    mL     |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041714.D        | 2         |           | 11/21/24 14:12 | VL112124      |

| CAS Number                | Parameter               | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-------------------------|---------------|----------------|-----------|----------|------------|---------|
| <b>SURROGATES</b>         |                         |               |                |           |          |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene | 11.0          |                |           | 65 - 135 | 110%       | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                         |               |                |           |          |            |         |
| 74-97-5                   | Bromochloromethane      | 1040000       |                | 5.23      |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene     | 2930000       |                | 6.69      |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5        | 2690000       |                | 11.50     |          |            |         |

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\VL112124\  
 Data File : VL041714.D  
 Acq On : 21 Nov 2024 14:12  
 Operator : SY/MD  
 Sample : P4633-01DL 2X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 E070-1100DL

Quant Time: Nov 22 01:07:51 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Nov 22 01:00:55 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/02/2024  
 Supervised By : Mahesh Dadoda 12/03/2024

| Compound                    | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards          |        |       |          |          |       |          |
| 1) Bromochloromethane       | 5.230  | 49    | 1043249  | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.690  | 114   | 2930669  | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5        | 11.504 | 117   | 2692925  | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.812 | 95    | 2181457  | 10.994   | ppbv  | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =     | 109.900% |
| Target Compounds            |        |       |          |          |       | Qvalue   |
| 7) Chloroethane             | 3.237  | 64    | 610346m  | 25.821   | ppbv  |          |
| 10) Heptane                 | 7.619  | 43    | 1604286  | 12.088   | ppbv  | 99       |
| 18) 1,1-Dichloroethene      | 3.919  | 96    | 514801   | 9.832    | ppbv  | 97       |
| 35) Carbon Tetrachloride    | 6.533  | 117   | 2096970  | 13.562   | ppbv  | 98       |
| 42) Bromodichloromethane    | 7.288  | 83    | 1571344  | 9.230    | ppbv  | 99       |
| 53) Toluene                 | 9.259  | 91    | 4863423  | 21.298   | ppbv  | 99       |
| 59) m/p-Xylene              | 12.413 | 91    | 5865203  | 22.185   | ppbv  | 95       |
| 60) o-Xylene                | 13.095 | 91    | 4483154  | 17.783   | ppbv  | 100      |
| 77) 1,2-Dichlorobenzene     | 17.179 | 146   | 2731245  | 14.901   | ppbv  | 100      |
| 81) 1,2,4-Trichlorobenzene  | 21.182 | 180   | 1359517  | 11.723   | ppbv  | 99       |

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

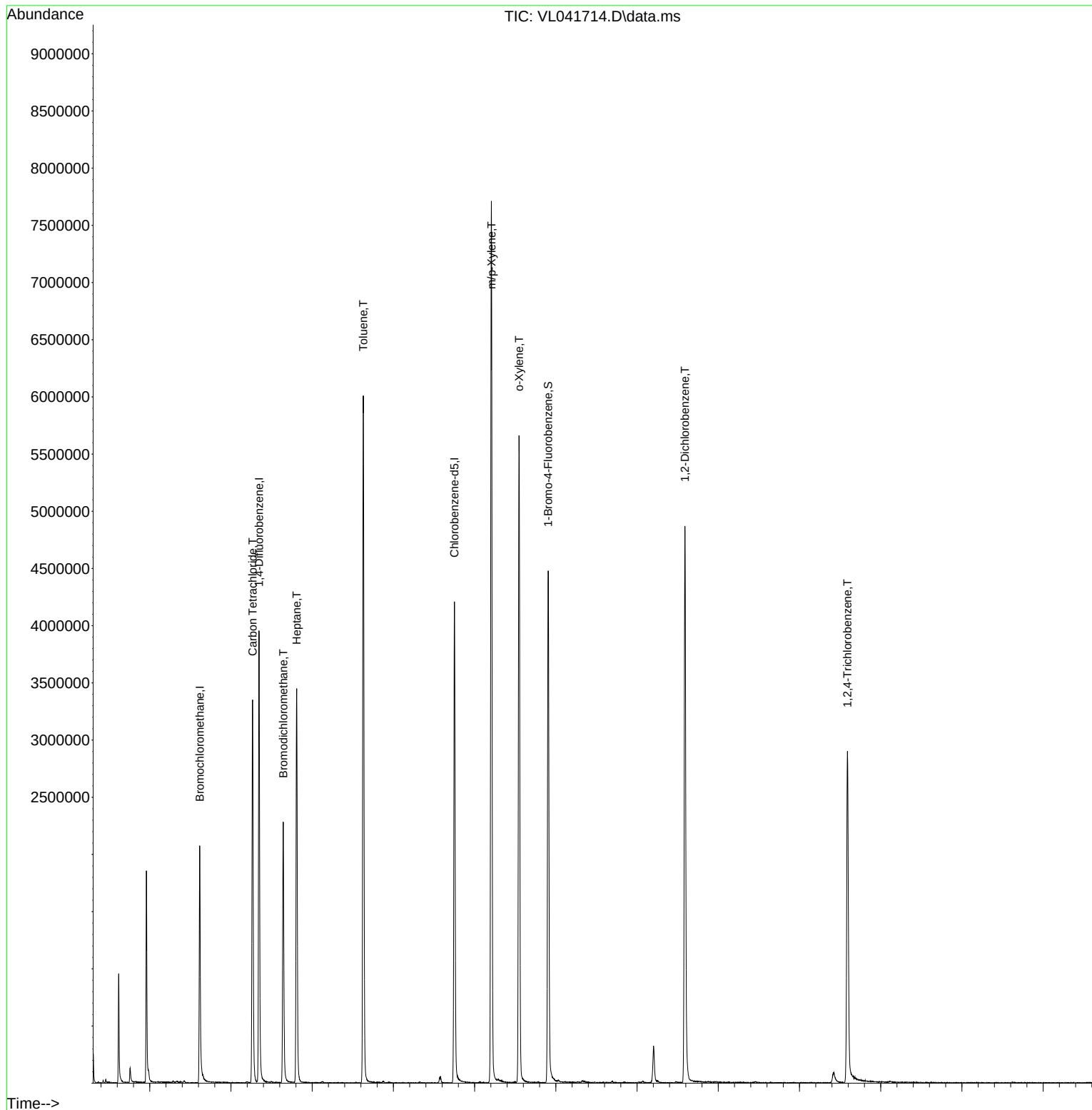
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Data File : VL041714.D  
Acq On : 21 Nov 2024 14:12  
Operator : SY/MD  
Sample : P4633-01DL 2X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL

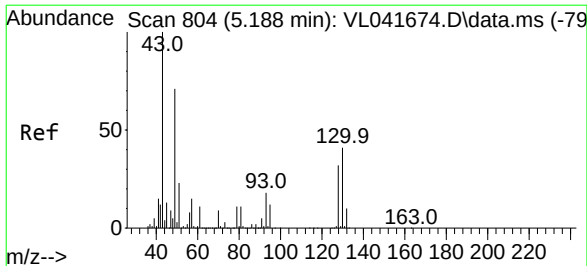
Quant Time: Nov 22 01:07:51 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Nov 22 01:00:55 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 12/02/2024  
Supervised By : Mahesh Dadoda 12/03/2024

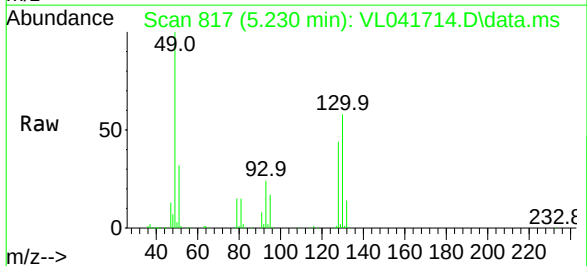






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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.230 min Scan# 81  
Delta R.T. 0.009 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

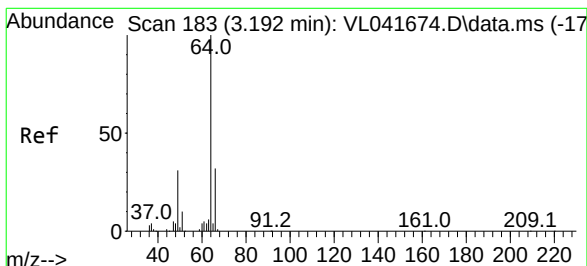
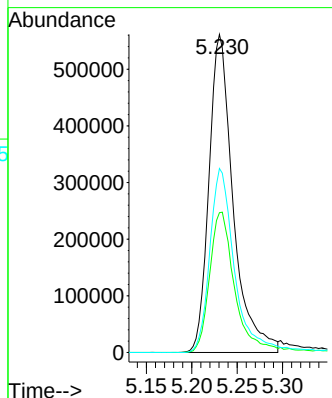
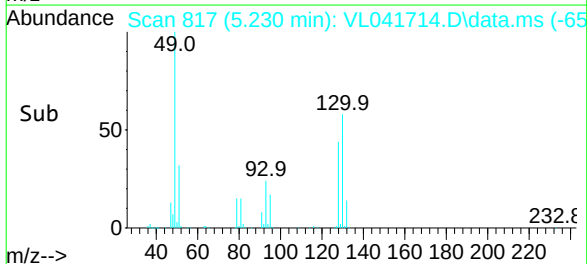
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL



Tgt Ion: 49 Resp: 1043249  
Ion Ratio Lower Upper  
49 100  
128 47.4 23.8 71.2  
130 61.0 30.1 90.5

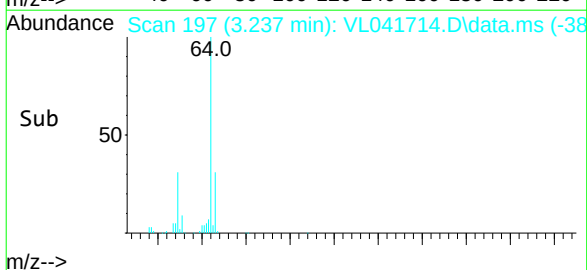
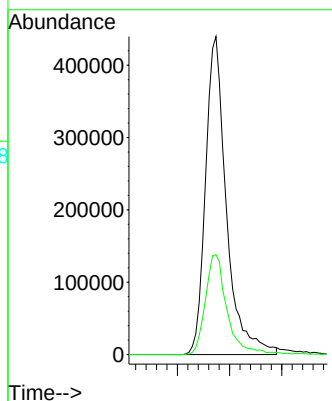
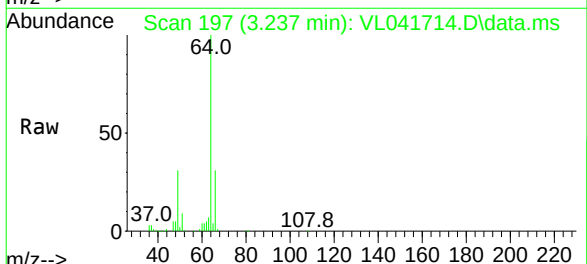
Manual Integrations  
APPROVED

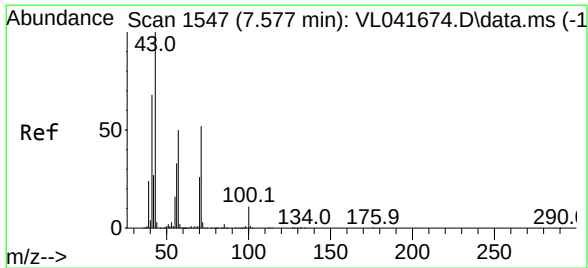
Reviewed By :Semsettin Yesilyurt 12/02/2024  
Supervised By :Mahesh Dadoda 12/03/2024



#7  
Chloroethane  
Concen: 25.821 ppbv m  
RT: 3.237 min Scan# 197  
Delta R.T. 0.010 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

Tgt Ion: 64 Resp: 610346  
Ion Ratio Lower Upper  
64 100  
66 31.4 25.9 38.9





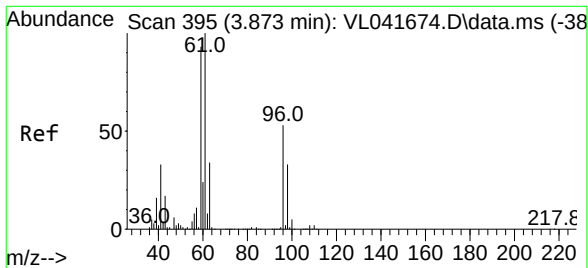
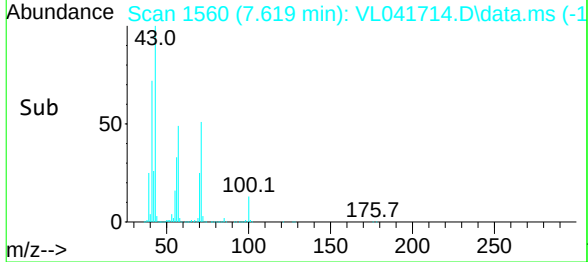
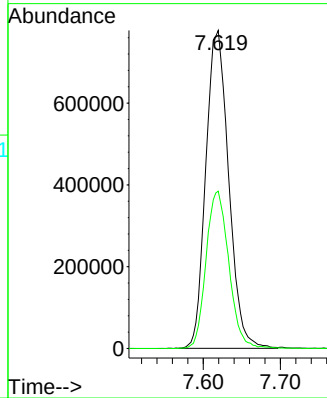
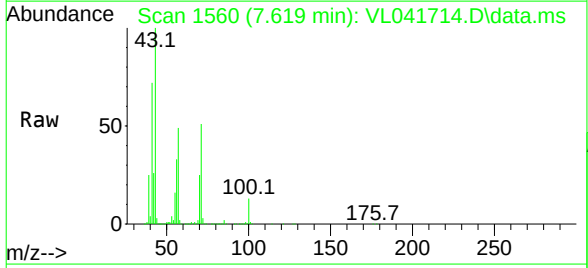
#10  
Heptane  
Concen: 12.088 ppbv  
RT: 7.619 min Scan# 15  
Delta R.T. 0.010 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL

Tgt Ion: 43 Resp: 1604286  
Ion Ratio Lower Upper  
43 100  
57 49.3 40.0 60.0

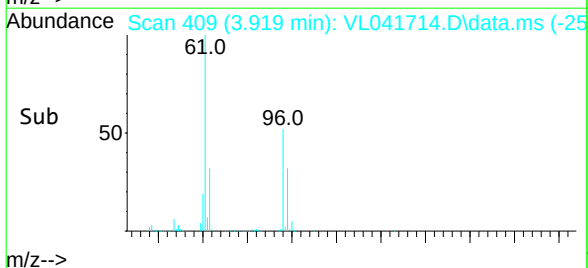
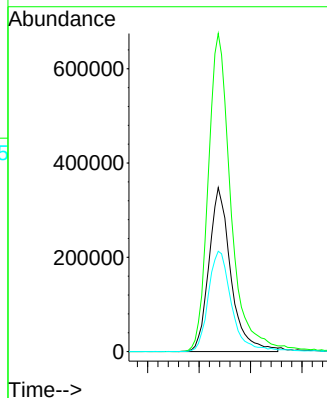
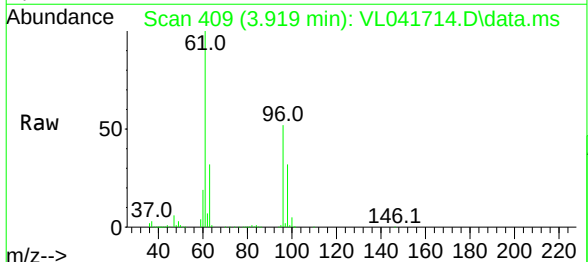
Manual Integrations  
APPROVED

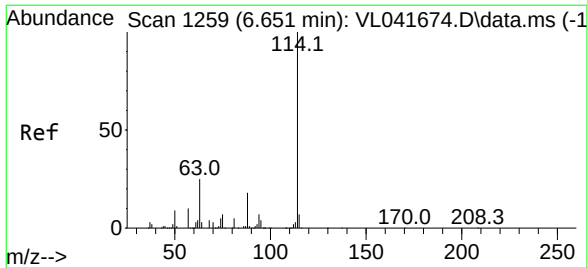
Reviewed By :Semsettin Yesilyurt 12/02/2024  
Supervised By :Mahesh Dadoda 12/03/2024



#18  
1,1-Dichloroethene  
Concen: 9.832 ppbv  
RT: 3.919 min Scan# 409  
Delta R.T. 0.010 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

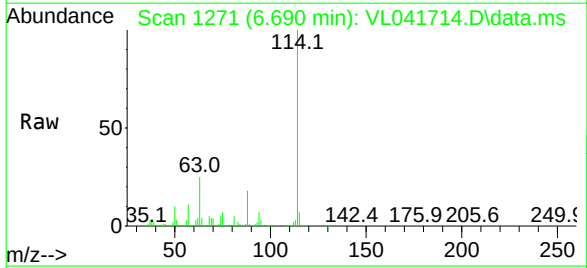
Tgt Ion: 96 Resp: 514801  
Ion Ratio Lower Upper  
96 100  
61 194.0 150.7 226.1  
98 61.1 49.4 74.2





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.690 min Scan# 1222  
Delta R.T. 0.006 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

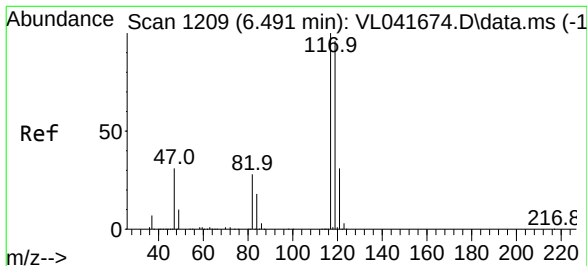
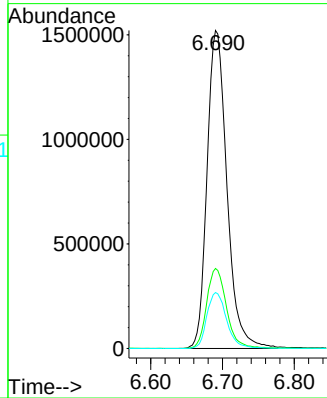
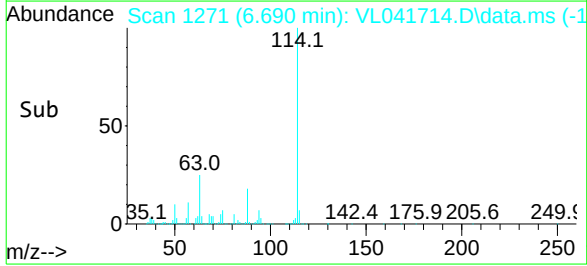
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL



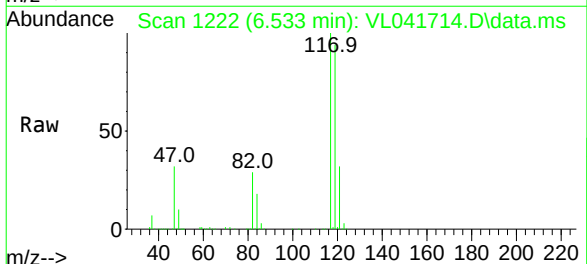
Tgt Ion:114 Resp: 2930669  
Ion Ratio Lower Upper  
114 100  
63 25.2 20.3 30.5  
88 17.6 14.2 21.4

Manual Integrations  
APPROVED

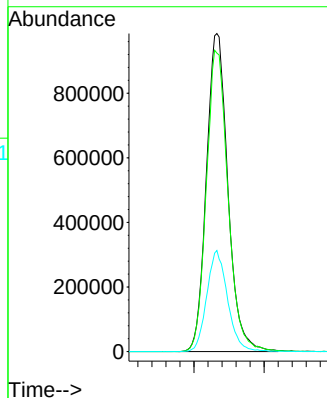
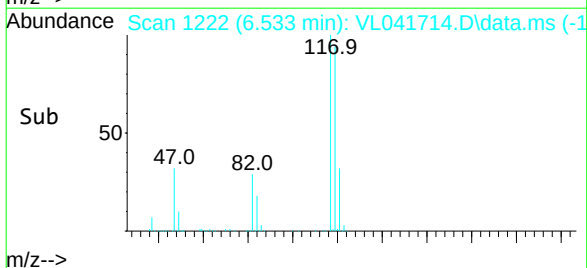
Reviewed By :Semsettin Yesilyurt 12/02/2024  
Supervised By :Mahesh Dadoda 12/03/2024

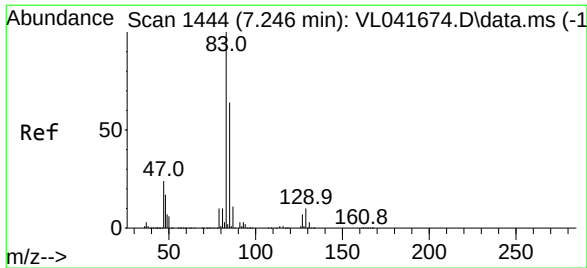


#35  
Carbon Tetrachloride  
Concen: 13.562 ppbv  
RT: 6.533 min Scan# 1222  
Delta R.T. 0.006 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12



Tgt Ion:117 Resp: 2096970  
Ion Ratio Lower Upper  
117 100  
119 93.8 77.2 115.8  
121 31.8 25.0 37.4





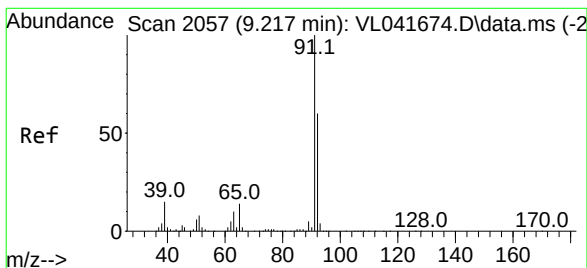
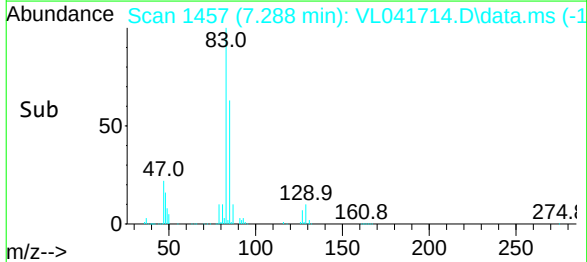
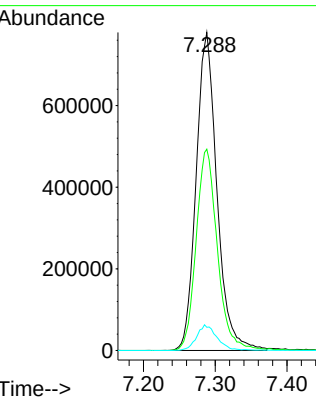
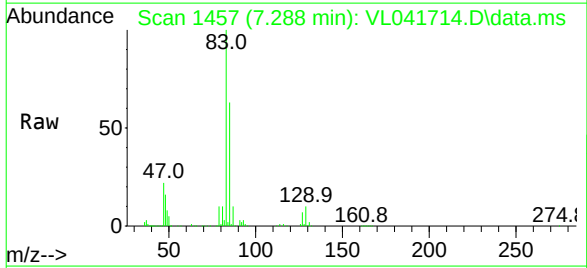
#42  
 Bromodichloromethane  
 Concen: 9.230 ppbv  
 RT: 7.288 min Scan# 14  
 Delta R.T. 0.006 min  
 Lab File: VL041714.D  
 Acq: 21 Nov 2024 14:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 E070-1100DL

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 83    | Resp: | 1571344 |
| Ion      | Ratio | Lower | Upper   |
| 83       | 100   |       |         |
| 85       | 63.3  | 51.2  | 76.8    |
| 127      | 7.3   | 6.0   | 9.0     |

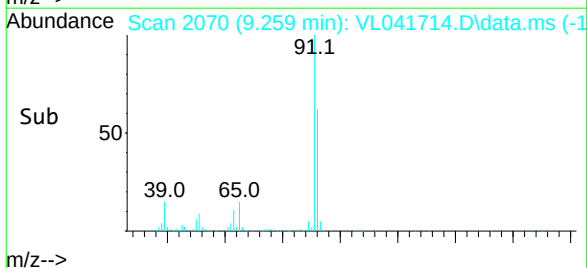
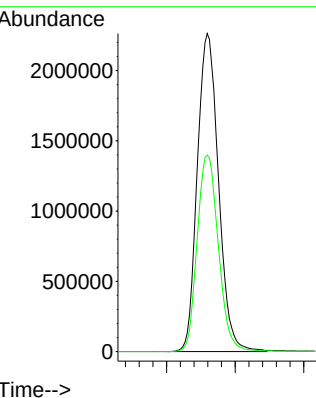
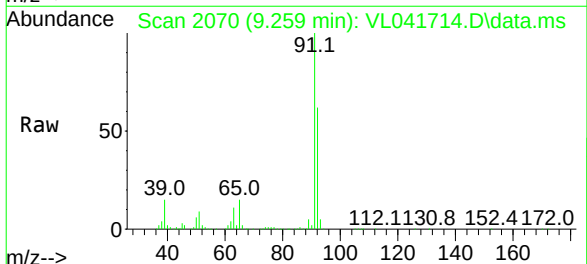
Manual Integrations  
 APPROVED

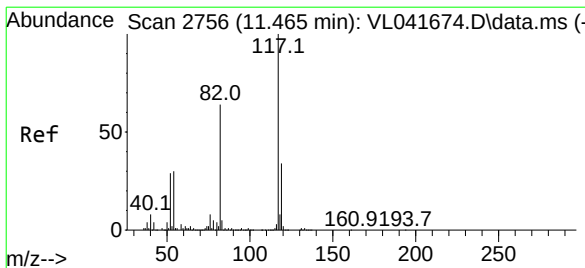
Reviewed By :Semsettin Yesilyurt 12/02/2024  
 Supervised By :Mahesh Dadoda 12/03/2024



#53  
 Toluene  
 Concen: 21.298 ppbv  
 RT: 9.259 min Scan# 2070  
 Delta R.T. 0.007 min  
 Lab File: VL041714.D  
 Acq: 21 Nov 2024 14:12

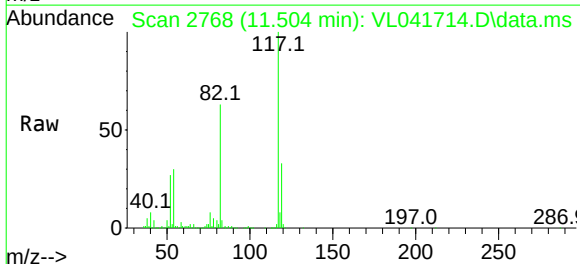
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 91    | Resp: | 4863423 |
| Ion      | Ratio | Lower | Upper   |
| 91       | 100   |       |         |
| 92       | 62.1  | 49.0  | 73.4    |





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.504 min Scan# 2756  
Delta R.T. 0.007 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

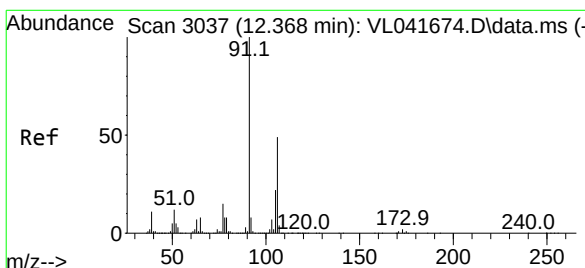
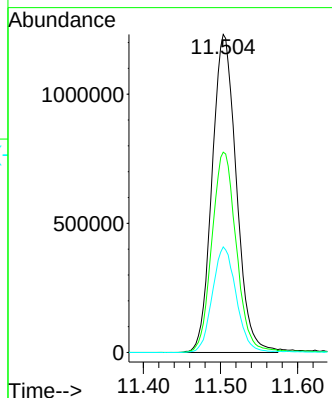
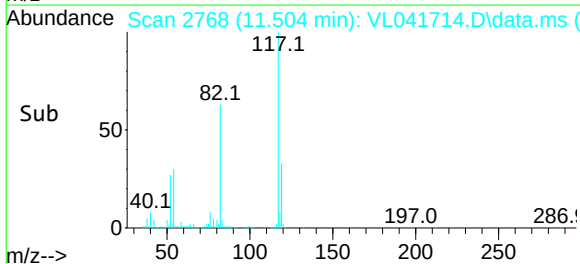
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL



Tgt Ion:117 Resp: 2692925  
Ion Ratio Lower Upper  
117 100  
82 64.3 49.8 74.8  
119 32.9 24.2 36.4

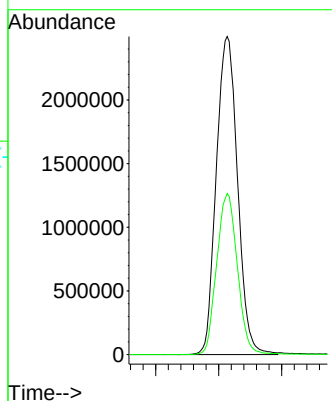
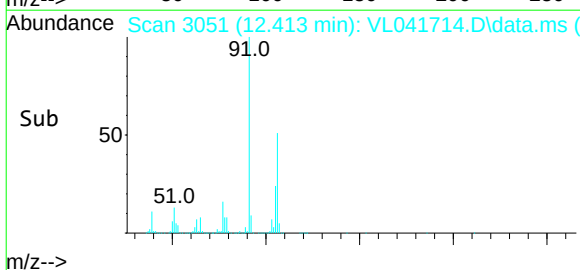
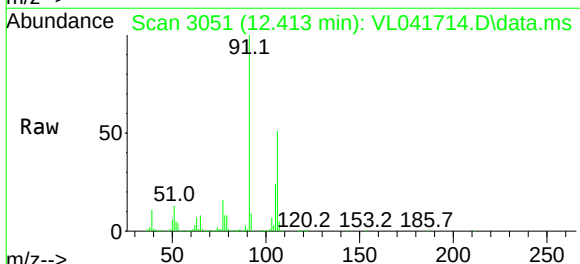
Manual Integrations  
APPROVED

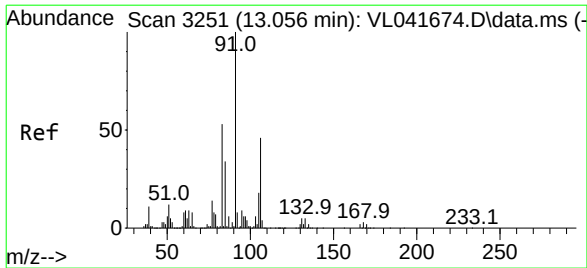
Reviewed By :Semsettin Yesilyurt 12/02/2024  
Supervised By :Mahesh Dadoda 12/03/2024



#59  
m/p-Xylene  
Concen: 22.185 ppbv  
RT: 12.413 min Scan# 3051  
Delta R.T. 0.010 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

Tgt Ion: 91 Resp: 5865203  
Ion Ratio Lower Upper  
91 100  
106 49.3 36.9 55.3





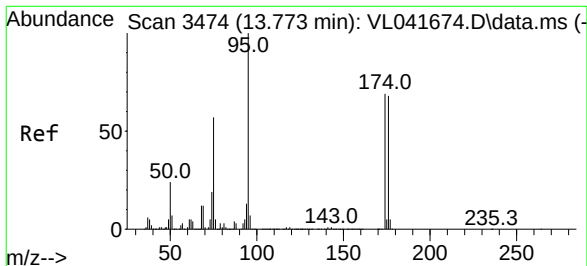
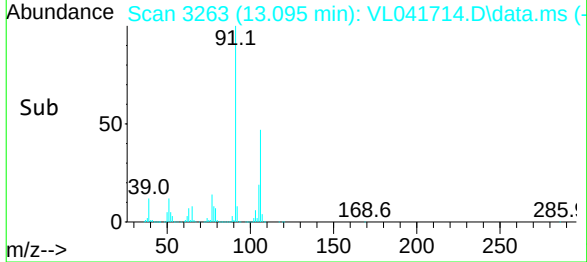
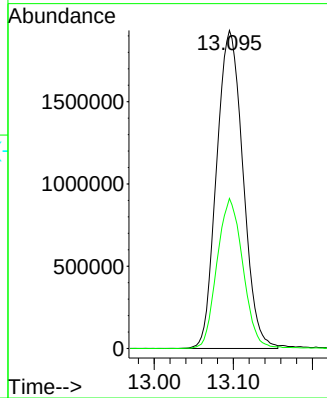
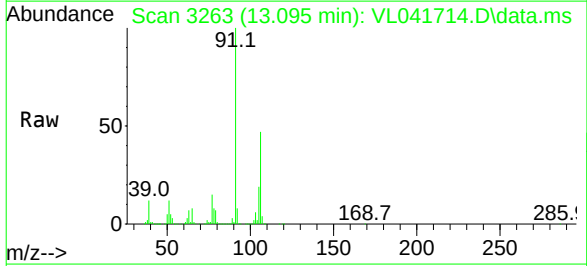
#60  
o-Xylene  
Concen: 17.783 ppbv  
RT: 13.095 min Scan# 3251  
Delta R.T. 0.006 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL

Tgt Ion: 91 Resp: 4483154  
Ion Ratio Lower Upper  
91 100  
106 46.5 23.2 69.6

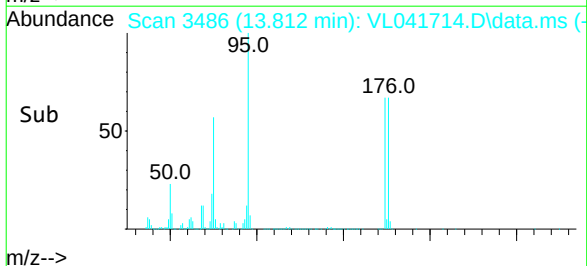
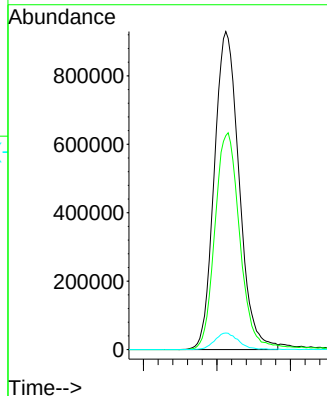
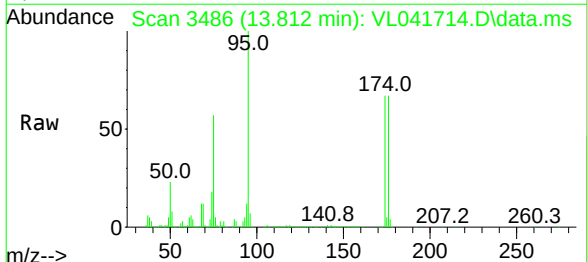
Manual Integrations  
APPROVED

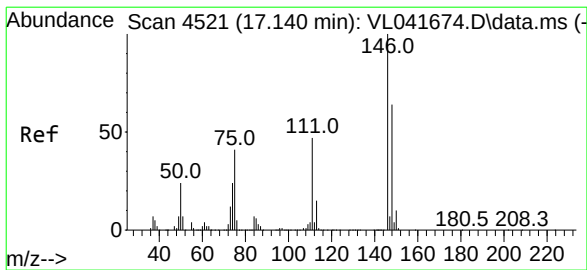
Reviewed By :Semsettin Yesilyurt 12/02/2024  
Supervised By :Mahesh Dadoda 12/03/2024



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.994 ppbv  
RT: 13.812 min Scan# 3486  
Delta R.T. 0.006 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

Tgt Ion: 95 Resp: 2181457  
Ion Ratio Lower Upper  
95 100  
174 69.7 55.6 83.4  
175 5.1 4.2 6.2





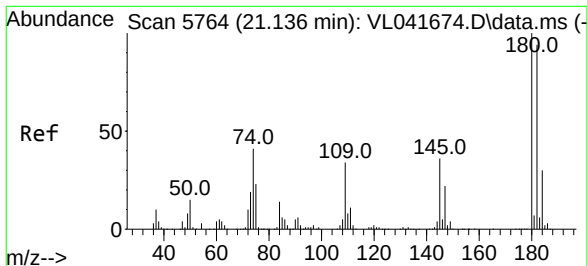
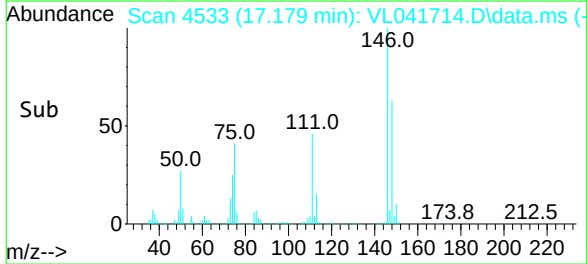
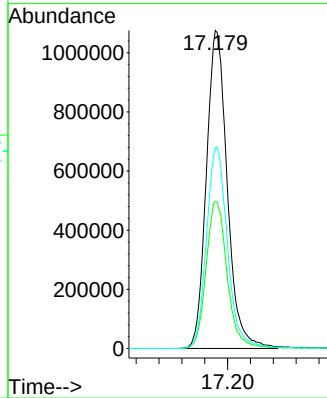
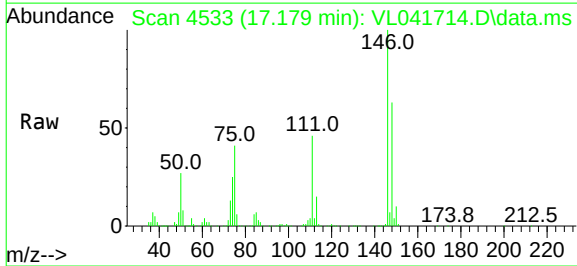
#77  
1,2-Dichlorobenzene  
Concen: 14.901 ppbv  
RT: 17.179 min Scan# 45  
Delta R.T. 0.003 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL

Tgt Ion:146 Resp: 2731245  
Ion Ratio Lower Upper  
146 100  
111 46.8 23.4 70.3  
148 63.9 32.1 96.5

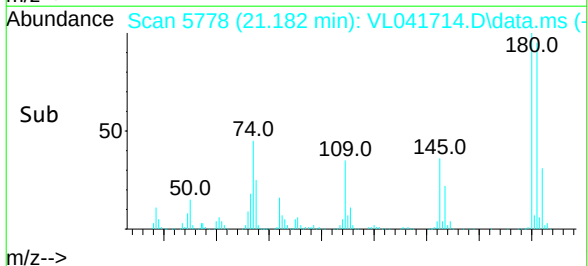
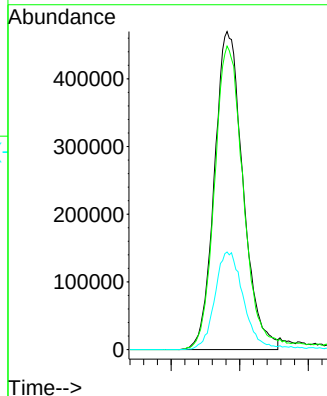
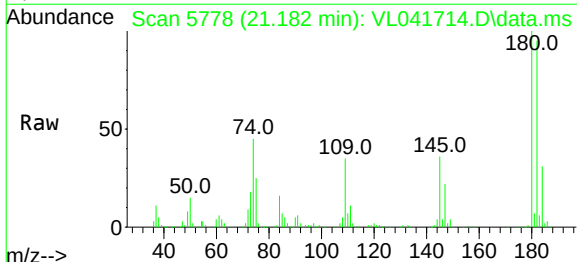
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 12/02/2024  
Supervised By :Mahesh Dadoda 12/03/2024



#81  
1,2,4-Trichlorobenzene  
Concen: 11.723 ppbv  
RT: 21.182 min Scan# 5778  
Delta R.T. 0.006 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

Tgt Ion:180 Resp: 1359517  
Ion Ratio Lower Upper  
180 100  
182 99.3 78.2 117.2  
184 31.4 25.0 37.4



## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: | 10/25/24     |
| Project:           | NJ Air PT                 | Date Received:  | 10/30/24     |
| Client Sample ID:  | E070-1100DL2              | SDG No.:        | P4633        |
| Lab Sample ID:     | P4633-01DL2               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400      Units:    mL     |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041715.D        | 4         |           | 11/21/24 15:06 | VL112124      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |      |            |       |
| 75-45-6        | Chlorodifluoromethane          | 0.35          | 1.24           | UD        | 1.24 | 7.07       | ug/m3 |
| 75-71-8        | Dichlorodifluoromethane        | 0.84          | 4.15           | UD        | 4.15 | 9.89       | ug/m3 |
| 64-17-5        | Ethanol                        | 1.30          | 2.45           | UDQ       | 2.45 | 3.77       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.39          | 0.81           | UD        | 0.81 | 4.13       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 0.060         | 0.15           | UD        | 0.15 | 0.31       | ug/m3 |
| 141-78-6       | Ethyl Acetate                  | 0.32          | 1.27           | UD        | 1.27 | 7.93       | ug/m3 |
| 74-83-9        | Bromomethane                   | 0.56          | 2.17           | UD        | 2.17 | 7.77       | ug/m3 |
| 75-00-3        | Chloroethane                   | 49.2          | 130            | D         | 1.79 | 5.28       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 0.52          | 1.53           | UD        | 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 |
| 593-60-2       | Bromoethene                    | 0.48          | 2.10           | UD        | 2.10 | 8.74       | ug/m3 |
| 115-07-1       | Propene                        | 0.60          | 1.03           | UD        | 1.03 | 3.44       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 0.76          | 2.30           | UD        | 2.30 | 6.06       | ug/m3 |
| 142-82-5       | Heptane                        | 22.2          | 91.0           | D         | 1.80 | 8.20       | ug/m3 |
| 67-63-0        | Isopropyl Alcohol              | 0.28          | 0.69           | UD        | 0.69 | 4.92       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 19.0          | 75.3           | D         | 2.22 | 7.93       | ug/m3 |
| 67-64-1        | Acetone                        | 0.96          | 2.28           | UD        | 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 |
| 108-05-4       | Vinyl Acetate                  | 0.64          | 2.30           | UD        | 2.30 | 7.20       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 0.52          | 2.10           | UD        | 2.10 | 8.09       | ug/m3 |
| 110-82-7       | Cyclohexane                    | 0.88          | 3.03           | UD        | 3.03 | 6.88       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 0.48          | 1.42           | UD        | 1.42 | 5.90       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 26.6          | 167            | D         | 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         | 0.40          | 1.87           | UD        | 1.87 | 9.34       | ug/m3 |
| 71-43-2        | Benzene                        | 0.35          | 1.12           | UD        | 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           | UDQ       | 0.38 | 0.64       | ug/m3 |



## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: | 10/25/24     |
| Project:           | NJ Air PT                 | Date Received:  | 10/30/24     |
| Client Sample ID:  | E070-1100DL2              | SDG No.:        | P4633        |
| Lab Sample ID:     | P4633-01DL2               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400      Units:    mL     |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041715.D        | 4         |           | 11/21/24 15:06 | VL112124      |

| CAS Number  | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL  | LOQ / CRQL | Units |
|-------------|---------------------------|---------------|----------------|-----------|------|------------|-------|
| 78-87-5     | 1,2-Dichloropropane       | 0.44          | 2.03           | UD        | 2.03 | 9.24       | ug/m3 |
| 75-27-4     | Bromodichloromethane      | 17.3          | 116            | D         | 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                   | 41.2          | 155            | 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 |
| 591-78-6    | 2-Hexanone                | 0.32          | 1.31           | UD        | 1.31 | 8.18       | ug/m3 |
| 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             | 0.48          | 2.08           | UD        | 2.08 | 8.69       | ug/m3 |
| 179601-23-1 | m/p-Xylene                | 43.6          | 189            | D         | 3.65 | 17.4       | ug/m3 |
| 1330-20-7   | Total Xylenes             | 78.1          | 339            | D         | 5.73 | 26.1       | ug/m3 |
| 95-47-6     | o-Xylene                  | 34.5          | 150            | D         | 2.08 | 8.69       | ug/m3 |
| 100-42-5    | Styrene                   | 0.44          | 1.87           | UD        | 1.87 | 8.52       | ug/m3 |
| 75-25-2     | Bromoform                 | 0.23          | 2.38           | UD        | 2.38 | 20.7       | ug/m3 |
| 98-82-8     | Isopropylbenzene          | 0.35          | 1.72           | UD        | 1.72 | 9.83       | ug/m3 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane | 0.040         | 0.27           | UDQ       | 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    | 0.31          | 1.52           | UD        | 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       | 27.0          | 162            | D         | 1.80 | 12.0       | ug/m3 |
| 120-82-1    | 1,2,4-Trichlorobenzene    | 18.5          | 137            | D         | 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           | UDQ       | 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                    | 0.44          | 1.55           | UD        | 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 |
| 100-44-7    | Benzyl Chloride           | 0.72          | 3.73           | UDQ       | 3.73 | 10.4       | ug/m3 |
| 80-62-6     | Methyl Methacrylate       | 0.34          | 1.39           | UD        | 1.39 | 8.19       | ug/m3 |

## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: | 10/25/24     |
| Project:           | NJ Air PT                 | Date Received:  | 10/30/24     |
| Client Sample ID:  | E070-1100DL2              | SDG No.:        | P4633        |
| Lab Sample ID:     | P4633-01DL2               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400      Units:    mL     |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041715.D        | 4         |           | 11/21/24 15:06 | VL112124      |

| CAS Number                | Parameter               | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-------------------------|---------------|----------------|-----------|----------|------------|---------|
| <b>SURROGATES</b>         |                         |               |                |           |          |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene | 10.6          |                |           | 65 - 135 | 106%       | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                         |               |                |           |          |            |         |
| 74-97-5                   | Bromochloromethane      | 1060000       |                | 5.23      |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene     | 2920000       |                | 6.687     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5        | 2650000       |                | 11.50     |          |            |         |

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\VL112124\  
 Data File : VL041715.D  
 Acq On : 21 Nov 2024 15:06  
 Operator : SY/MD  
 Sample : P4633-01DL2 4X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 E070-1100DL2

Quant Time: Nov 22 01:08:22 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Nov 22 01:00:55 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/02/2024  
 Supervised By : Mahesh Dadoda 12/03/2024

| Compound                    | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards          |        |       |          |          |       |          |
| 1) Bromochloromethane       | 5.230  | 49    | 1063727  | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.687  | 114   | 2922287  | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5        | 11.503 | 117   | 2654968  | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.812 | 95    | 2071565  | 10.590   | ppbv  | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =     | 105.900% |
| Target Compounds            |        |       |          |          |       | Qvalue   |
| 7) Chloroethane             | 3.237  | 64    | 296345m  | 12.296   | ppbv  |          |
| 10) Heptane                 | 7.616  | 43    | 750273   | 5.544    | ppbv  | 99       |
| 18) 1,1-Dichloroethene      | 3.918  | 96    | 252904m  | 4.737    | ppbv  |          |
| 35) Carbon Tetrachloride    | 6.532  | 117   | 1025832  | 6.653    | ppbv  | 97       |
| 42) Bromodichloromethane    | 7.285  | 83    | 734738   | 4.328    | ppbv  | 99       |
| 53) Toluene                 | 9.256  | 91    | 2347642  | 10.310   | ppbv  | 100      |
| 59) m/p-Xylene              | 12.410 | 91    | 2844916  | 10.915   | ppbv  | 96       |
| 60) o-Xylene                | 13.092 | 91    | 2141646  | 8.617    | ppbv  | 100      |
| 77) 1,2-Dichlorobenzene     | 17.182 | 146   | 1217081  | 6.735    | ppbv  | 100      |
| 81) 1,2,4-Trichlorobenzene  | 21.188 | 180   | 528368m  | 4.621    | ppbv  |          |

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

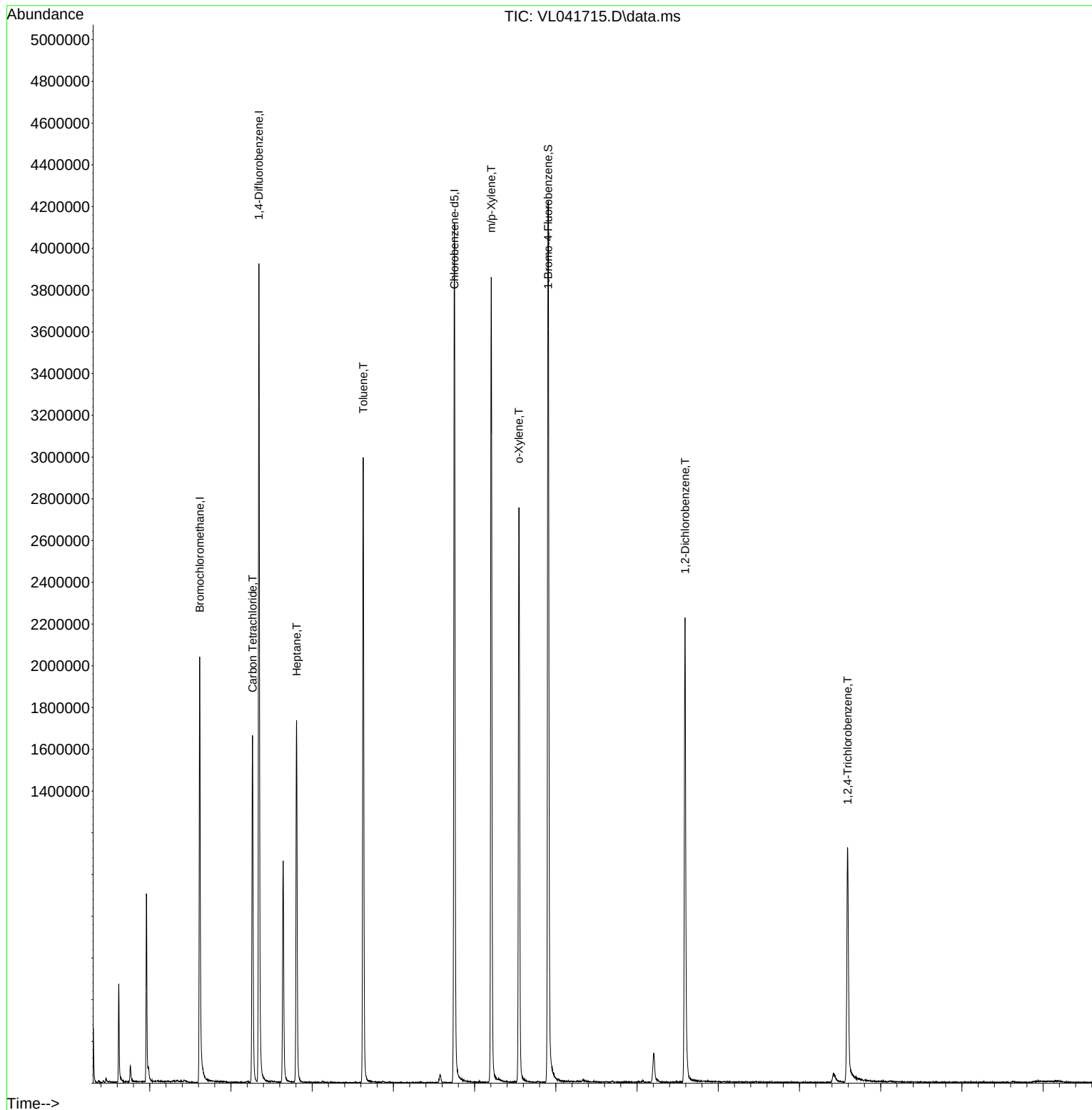
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Data File : VL041715.D  
Acq On : 21 Nov 2024 15:06  
Operator : SY/MD  
Sample : P4633-01DL2 4X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

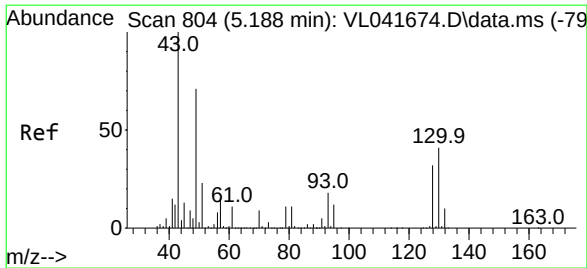
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL2

Quant Time: Nov 22 01:08:22 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Nov 22 01:00:55 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 12/02/2024  
Supervised By : Mahesh Dadoda 12/03/2024





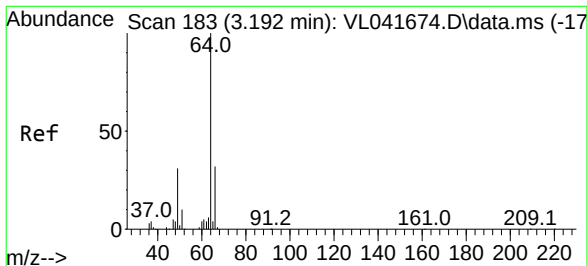
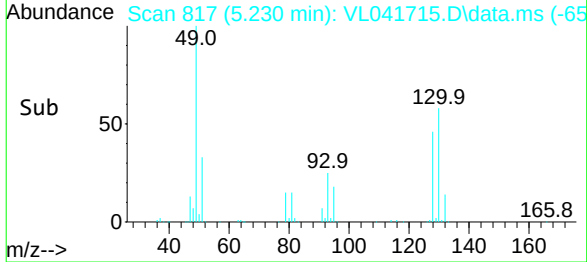
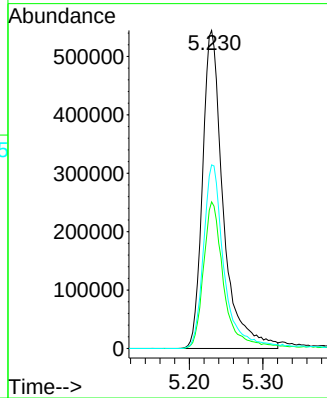
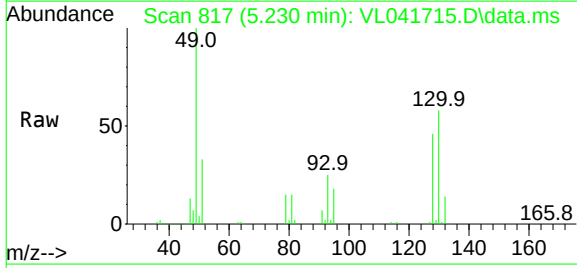
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.230 min Scan# 81  
Delta R.T. 0.009 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL2

Tgt Ion: 49 Resp: 1063727  
Ion Ratio Lower Upper  
49 100  
128 46.3 23.8 71.2  
130 59.8 30.1 90.5

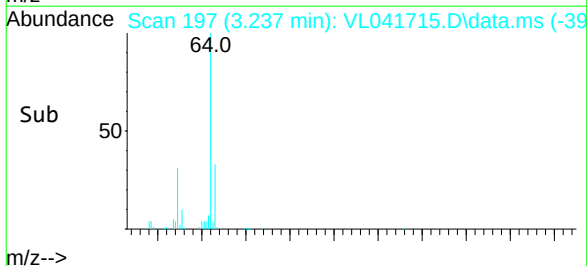
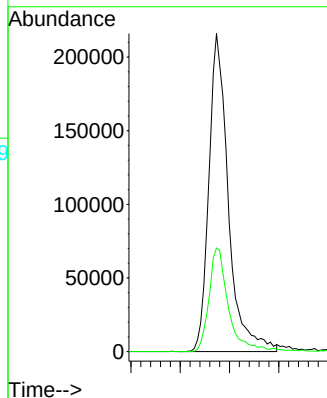
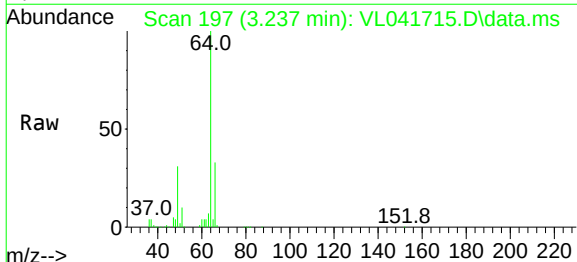
Manual Integrations  
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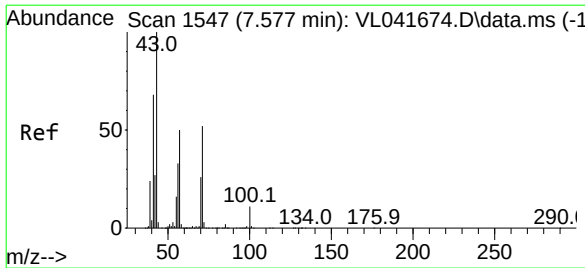
Reviewed By :Semsettin Yesilyurt 12/02/2024  
Supervised By :Mahesh Dadoda 12/03/2024



#7  
Chloroethane  
Concen: 12.296 ppbv m  
RT: 3.237 min Scan# 197  
Delta R.T. 0.010 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

Tgt Ion: 64 Resp: 296345  
Ion Ratio Lower Upper  
64 100  
66 32.6 25.9 38.9





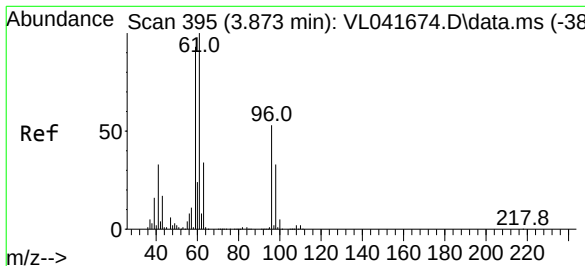
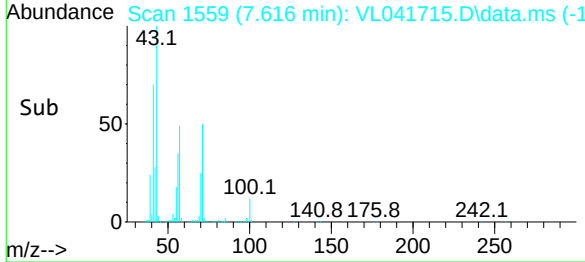
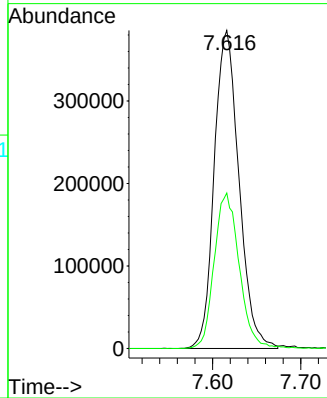
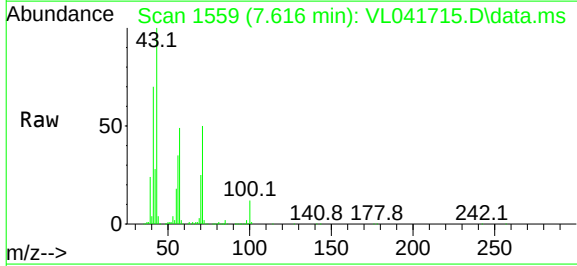
#10  
Heptane  
Concen: 5.544 ppbv  
RT: 7.616 min Scan# 15  
Delta R.T. 0.006 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL2

Tgt Ion: 43 Resp: 750273  
Ion Ratio Lower Upper  
43 100  
57 49.6 40.0 60.0

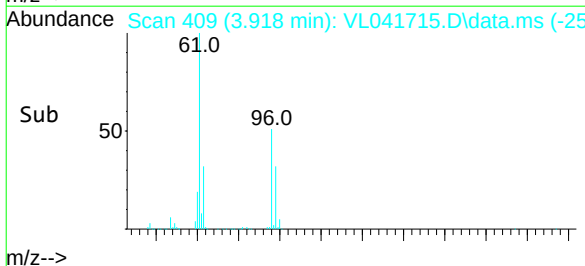
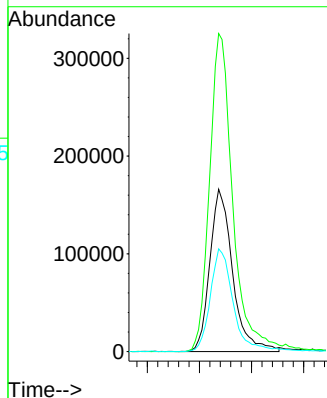
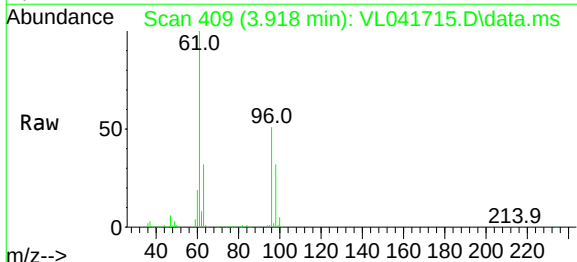
Manual Integrations  
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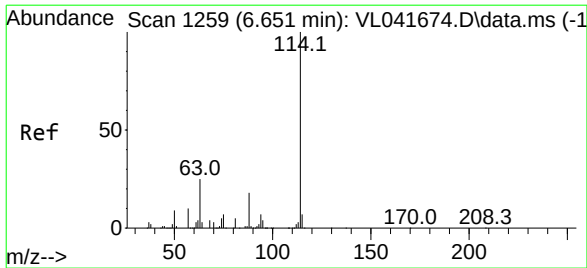
Reviewed By :Semsettin Yesilyurt 12/02/2024  
Supervised By :Mahesh Dadoda 12/03/2024



#18  
1,1-Dichloroethene  
Concen: 4.737 ppbv m  
RT: 3.918 min Scan# 409  
Delta R.T. 0.010 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

Tgt Ion: 96 Resp: 252904  
Ion Ratio Lower Upper  
96 100  
61 195.9 150.7 226.1  
98 63.3 49.4 74.2





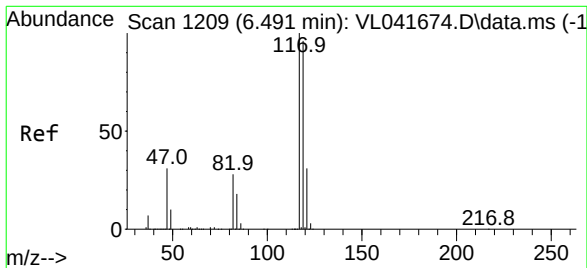
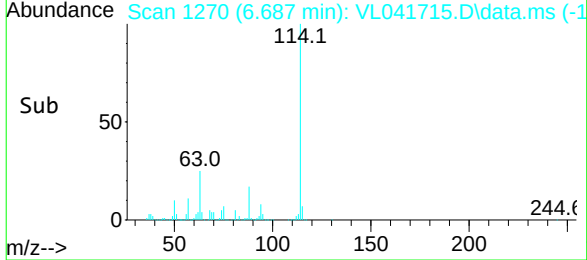
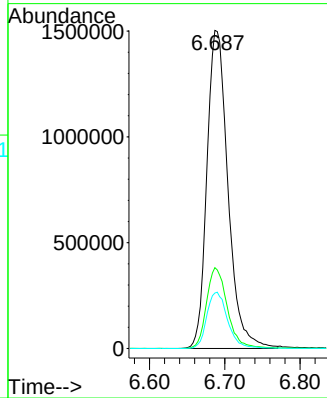
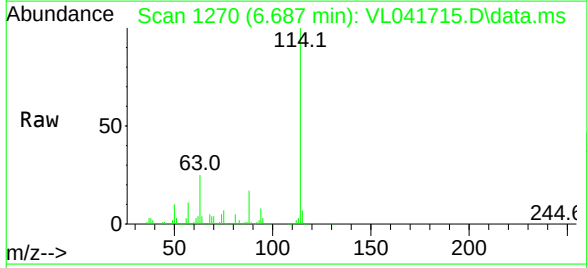
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.687 min Scan# 1259  
Delta R.T. 0.003 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL2

Tgt Ion:114 Resp: 2922287  
Ion Ratio Lower Upper  
114 100  
63 25.3 20.3 30.5  
88 17.6 14.2 21.4

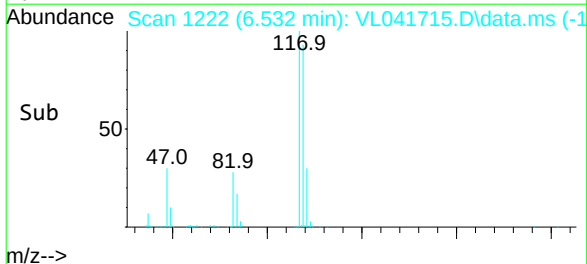
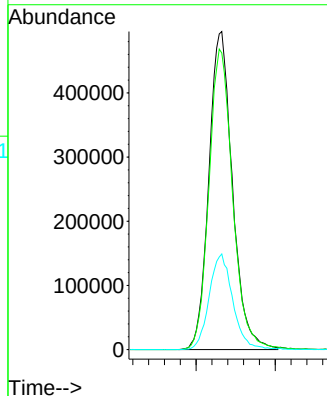
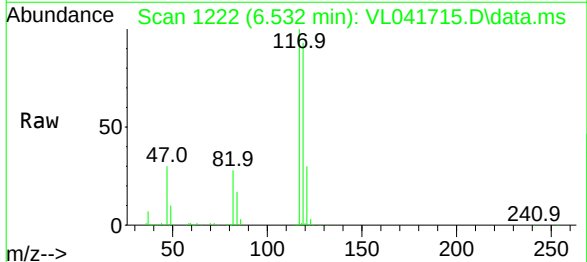
Manual Integrations  
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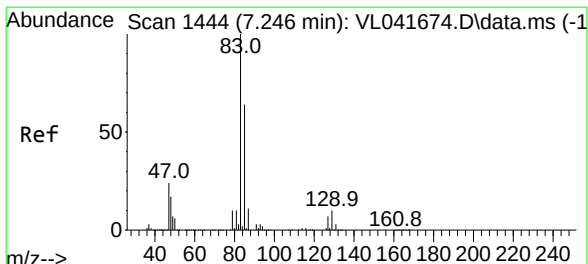
Reviewed By :Semsettin Yesilyurt 12/02/2024  
Supervised By :Mahesh Dadoda 12/03/2024



#35  
Carbon Tetrachloride  
Concen: 6.653 ppbv  
RT: 6.532 min Scan# 1222  
Delta R.T. 0.006 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

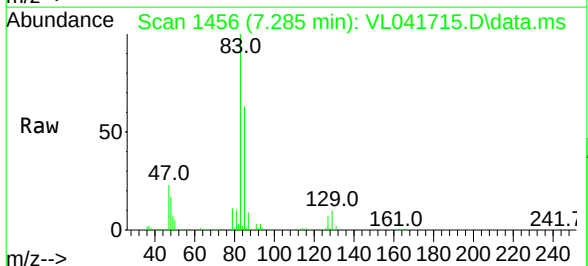
Tgt Ion:117 Resp: 1025832  
Ion Ratio Lower Upper  
117 100  
119 93.2 77.2 115.8  
121 30.1 25.0 37.4





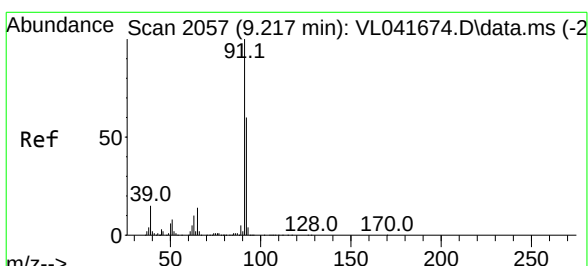
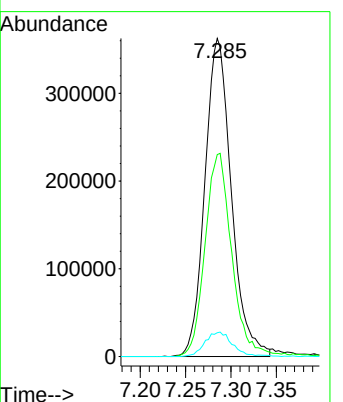
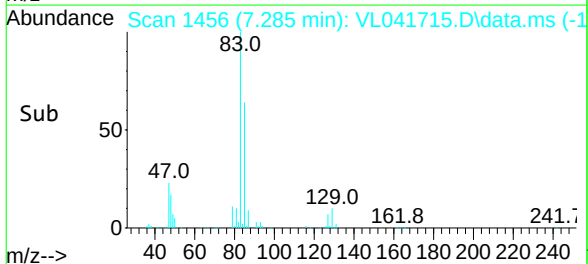
#42  
 Bromodichloromethane  
 Concen: 4.328 ppbv  
 RT: 7.285 min Scan# 14  
 Delta R.T. 0.003 min  
 Lab File: VL041715.D  
 Acq: 21 Nov 2024 15:06

Instrument : MSVOA\_L  
 ClientSampleId : E070-1100DL2

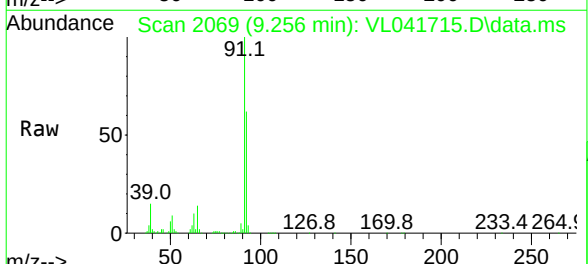


|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 734738 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 63.5  | 51.2  | 76.8   |
| 127      | 7.5   | 6.0   | 9.0    |

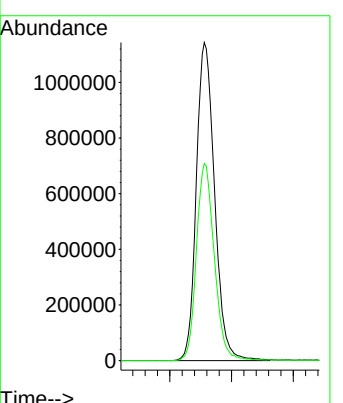
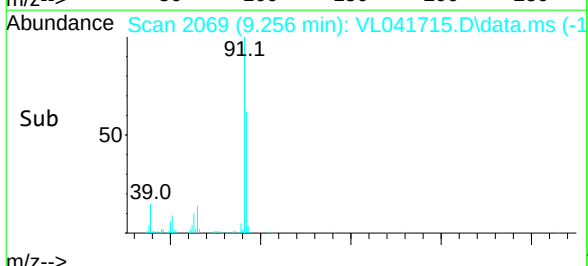
Manual Integrations  
**APPROVED**  
 Reviewed By :Semsettin Yesilyurt 12/02/2024  
 Supervised By :Mahesh Dadoda 12/03/2024



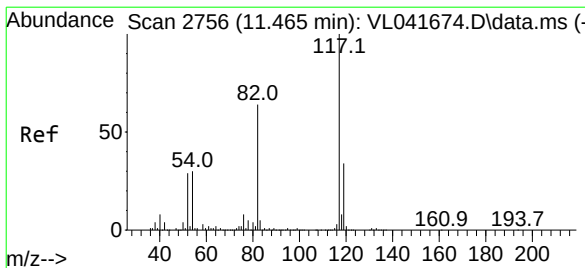
#53  
 Toluene  
 Concen: 10.310 ppbv  
 RT: 9.256 min Scan# 2069  
 Delta R.T. 0.003 min  
 Lab File: VL041715.D  
 Acq: 21 Nov 2024 15:06



|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 91    | Resp: | 2347642 |
| Ion      | Ratio | Lower | Upper   |
| 91       | 100   |       |         |
| 92       | 60.8  | 49.0  | 73.4    |

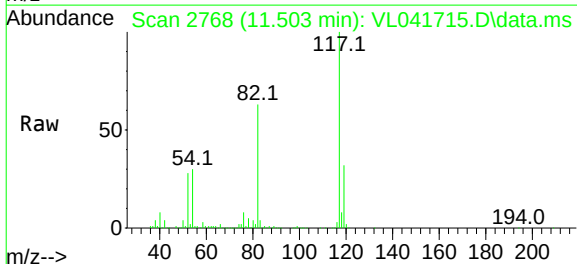






#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.503 min Scan# 2756  
Delta R.T. 0.006 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

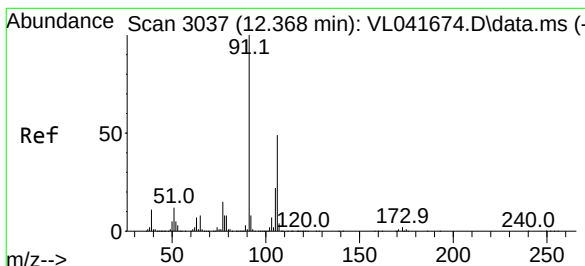
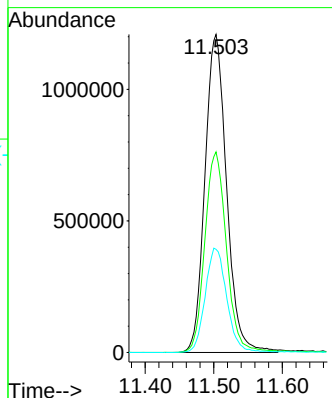
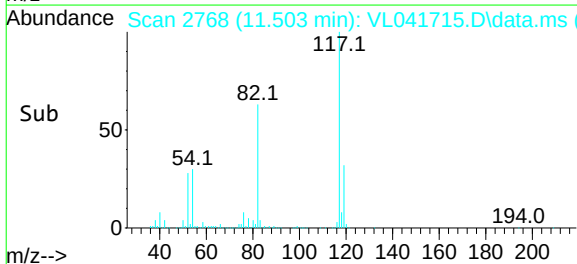
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL2



Tgt Ion: 117 Resp: 2654968  
Ion Ratio Lower Upper  
117 100  
82 63.9 49.8 74.8  
119 33.0 24.2 36.4

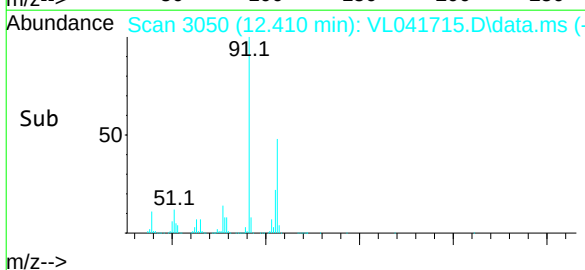
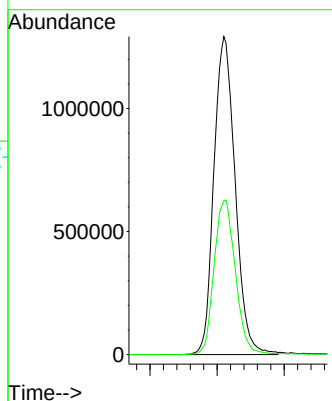
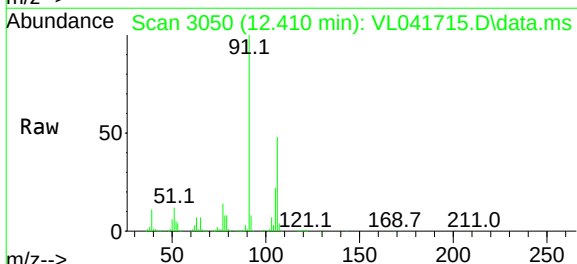
Manual Integrations  
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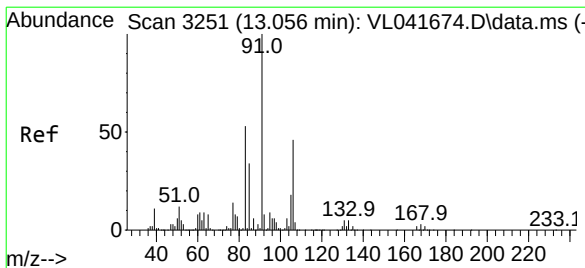
Reviewed By :Semsettin Yesilyurt 12/02/2024  
Supervised By :Mahesh Dadoda 12/03/2024



#59  
m/p-Xylene  
Concen: 10.915 ppbv  
RT: 12.410 min Scan# 3050  
Delta R.T. 0.006 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

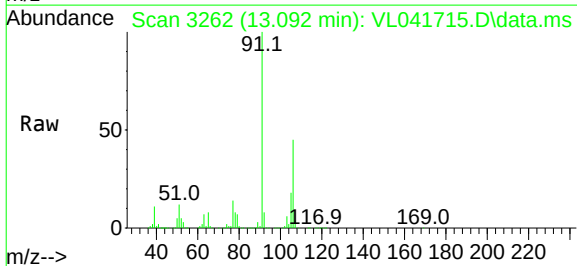
Tgt Ion: 91 Resp: 2844916  
Ion Ratio Lower Upper  
91 100  
106 48.9 36.9 55.3





#60  
o-Xylene  
Concen: 8.617 ppbv  
RT: 13.092 min Scan# 3251  
Delta R.T. 0.003 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

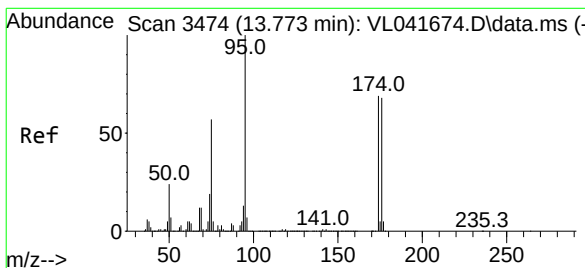
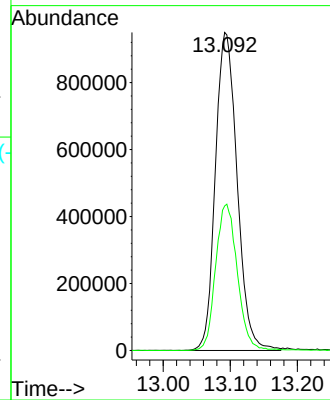
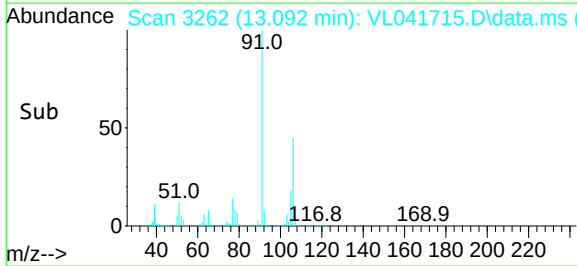
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL2



Tgt Ion: 91 Resp: 2141646  
Ion Ratio Lower Upper  
91 100  
106 46.2 23.2 69.6

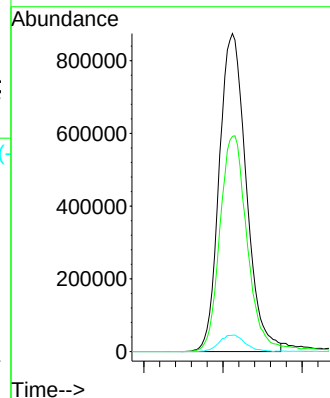
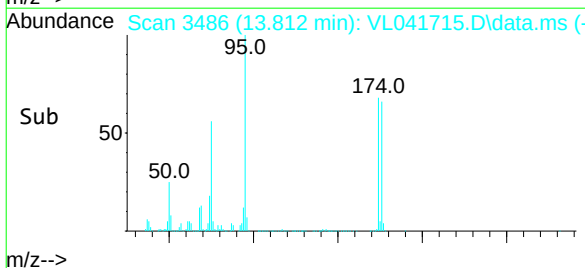
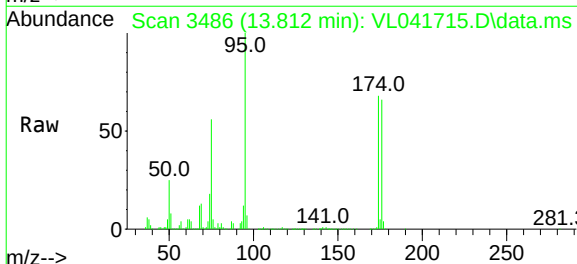
Manual Integrations  
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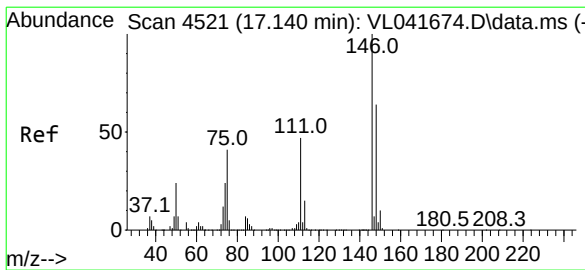
Reviewed By :Semsettin Yesilyurt 12/02/2024  
Supervised By :Mahesh Dadoda 12/03/2024



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.590 ppbv  
RT: 13.812 min Scan# 3486  
Delta R.T. 0.006 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

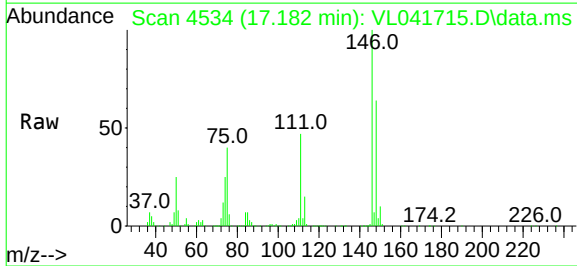
Tgt Ion: 95 Resp: 2071565  
Ion Ratio Lower Upper  
95 100  
174 70.1 55.6 83.4  
175 5.1 4.2 6.2





#77  
 1,2-Dichlorobenzene  
 Concen: 6.735 ppbv  
 RT: 17.182 min Scan# 45  
 Delta R.T. 0.006 min  
 Lab File: VL041715.D  
 Acq: 21 Nov 2024 15:06

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 E070-1100DL2

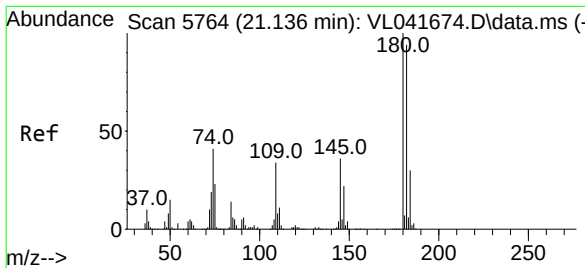
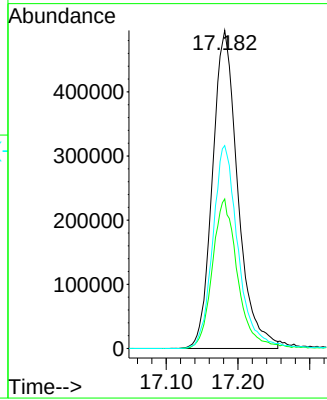
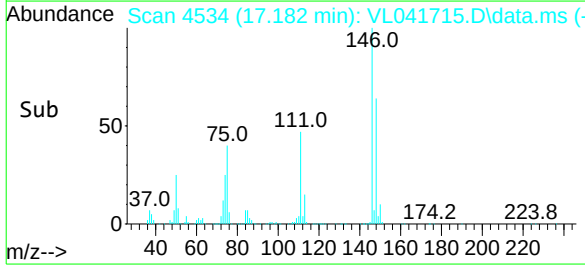


Tgt Ion: 146 Resp: 1217081

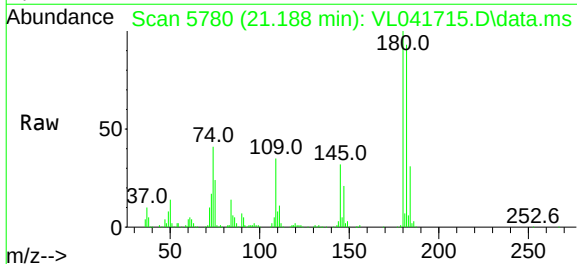
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 47.3  | 23.4  | 70.3  |
| 148 | 64.3  | 32.1  | 96.5  |

Manual Integrations  
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Reviewed By : Semsettin Yesilyurt 12/02/2024  
 Supervised By : Mahesh Dadoda 12/03/2024

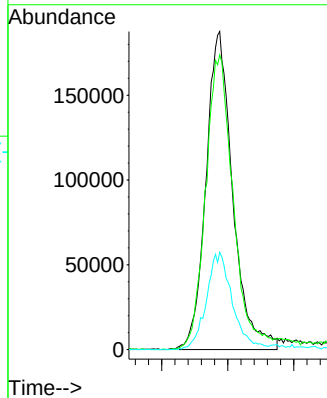
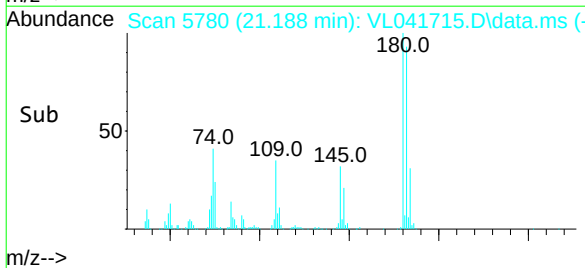


#81  
 1,2,4-Trichlorobenzene  
 Concen: 4.621 ppbv m  
 RT: 21.188 min Scan# 5780  
 Delta R.T. 0.013 min  
 Lab File: VL041715.D  
 Acq: 21 Nov 2024 15:06



Tgt Ion: 180 Resp: 528368

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 100.8 | 78.2  | 117.2 |
| 184 | 30.8  | 25.0  | 37.4  |





# CALIBRATION SUMMARY

|    |
|----|
| 1  |
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Method Path : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\

Method File : VL110724AIR.M

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

Last Update : Fri Nov 08 01:01:00 2024

Response Via : Initial Calibration

## Calibration Files

0.03=VL041679.D 0.1 =VL041678.D 0.5 =VL041677.D 1 =VL041676.D 2 =VL041675.D 10 =VL041674.D 15 =VL041680.D

| Compound                  | 0.03           | 0.1   | 0.5   | 1     | 2     | 10    | 15    | Avg    | %RSD  |
|---------------------------|----------------|-------|-------|-------|-------|-------|-------|--------|-------|
| -----                     |                |       |       |       |       |       |       |        |       |
| 1) I Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |        |       |
| 2) T Dichlorodifluo...    |                |       | 1.665 | 1.533 | 2.128 | 1.887 | 1.824 | 1.807  | 12.52 |
| 3) Chlorodifluoro...      |                |       | 1.407 | 1.386 | 1.360 | 1.190 | 1.172 | 1.303  | 8.66  |
| 4) Chloromethane          |                |       | 0.714 | 0.732 | 0.721 | 0.649 | 0.635 | 0.690  | 6.46  |
| 5) T Vinyl Chloride       | 0.643          | 0.490 | 0.627 | 0.660 | 0.680 | 0.626 | 0.621 | 0.621  | 9.91  |
| 6) T Bromomethane         |                |       | 0.337 | 0.328 | 0.347 | 0.317 | 0.318 | 0.329  | 3.87  |
| 7) Chloroethane           |                |       | 0.227 | 0.232 | 0.233 | 0.223 | 0.219 | 0.227  | 2.65  |
| 8) T Dichlorotetra...     |                |       | 1.783 | 1.677 | 1.685 | 1.476 | 1.446 | 1.613  | 9.02  |
| 9) T Propene              |                |       | 0.566 | 0.610 | 0.603 | 0.530 | 0.530 | 0.568  | 6.76  |
| 10) T Heptane             |                |       | 1.093 | 1.257 | 1.364 | 1.311 | 1.336 | 1.272  | 8.48  |
| 11) T Trichlorofluor...   |                |       | 1.609 | 1.644 | 1.673 | 1.480 | 1.465 | 1.574  | 6.09  |
| 12) T 1,1,2-Trichlor...   |                |       | 1.165 | 1.195 | 1.214 | 1.074 | 1.073 | 1.144  | 5.83  |
| 13) Ethanol               |                |       | 0.036 | 0.033 | 0.046 | 0.029 | 0.030 | 0.035# | 19.45 |
| 14) T Bromoethene         |                |       | 0.486 | 0.465 | 0.476 | 0.431 | 0.442 | 0.460  | 5.06  |
| 15) T Acetone             |                |       | 1.201 | 1.403 | 1.348 | 1.098 | 1.103 | 1.231  | 11.36 |
| 16) T 1,3-Butadiene       |                |       | 0.585 | 0.572 | 0.689 | 0.627 | 0.632 | 0.621  | 7.40  |
| 17) tert-Butyl alc...     |                |       | 1.059 | 1.294 | 1.036 | 1.038 | 0.973 | 1.080  | 11.46 |
| 18) T 1,1-Dichloroet...   |                |       | 0.533 | 0.491 | 0.521 | 0.476 | 0.488 | 0.502  | 4.79  |
| 19) T Isopropyl Alcohol   |                |       | 0.561 | 0.696 | 0.600 | 0.552 | 0.532 | 0.588  | 11.03 |
| 20) T Methylene Chlo...   |                |       | 0.514 | 0.501 | 0.447 | 0.400 | 0.402 | 0.453  | 11.86 |
| 21) T Allyl Chloride      |                |       | 0.688 | 0.807 | 0.778 | 0.759 | 0.770 | 0.761  | 5.78  |
| 22) T trans-1,2-Dich...   |                |       | 0.475 | 0.515 | 0.529 | 0.484 | 0.493 | 0.499  | 4.51  |
| 23) T Vinyl Acetate       |                |       | 0.492 | 0.558 | 0.606 | 0.514 | 0.542 | 0.543  | 8.07  |
| 24) T 1,1-Dichloroet...   |                |       | 1.074 | 1.116 | 1.287 | 1.045 | 1.047 | 1.114  | 9.06  |
| 25) T Ethyl Acetate       |                |       | 2.443 | 2.674 | 2.681 | 2.463 | 2.477 | 2.548  | 4.69  |
| 26) T Hexane              |                |       | 0.881 | 1.031 | 1.025 | 0.966 | 0.991 | 0.979  | 6.19  |
| 27) T Carbon Disulfide    |                |       | 0.915 | 1.056 | 1.141 | 1.174 | 1.212 | 1.100  | 10.74 |
| 28) T Methyl tert-Bu...   |                |       | 0.591 | 0.669 | 0.739 | 0.573 | 0.578 | 0.630  | 11.45 |
| 29) T Chloroform          |                |       | 1.712 | 1.670 | 1.646 | 1.520 | 1.530 | 1.616  | 5.34  |
| 30) T Cyclohexane         |                |       | 0.901 | 0.744 | 0.852 | 0.825 | 0.846 | 0.833  | 6.87  |
| 31) T cis-1,2-Dichlo...   |                |       | 0.873 | 0.972 | 0.959 | 0.936 | 0.968 | 0.942  | 4.32  |
| 32) T 1,1,1-Trichlor...   | 1.373          | 1.289 | 1.468 | 1.574 | 1.619 | 1.488 | 1.507 | 1.474  | 7.66  |
| -----                     |                |       |       |       |       |       |       |        |       |
| 33) I 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |       |
| 34) T 2-Butanone          |                |       | 0.488 | 0.500 | 0.524 | 0.478 | 0.499 | 0.498  | 3.43  |
| 35) T Carbon Tetrach...   | 0.420          | 0.425 | 0.553 | 0.563 | 0.597 | 0.564 | 0.572 | 0.528  | 13.81 |
| 36) T Benzene             |                |       | 0.663 | 0.751 | 0.803 | 0.738 | 0.750 | 0.741  | 6.83  |
| 37) T 1,2-Dichloroet...   |                |       | 0.396 | 0.433 | 0.435 | 0.408 | 0.417 | 0.418  | 3.95  |
| 38) T Trichloroethene     | 0.273          | 0.232 | 0.264 | 0.289 | 0.320 | 0.303 | 0.313 | 0.285  | 10.81 |
| 39) T 1,2-Dichloropr...   |                |       | 0.278 | 0.299 | 0.308 | 0.284 | 0.294 | 0.293  | 4.03  |

|                                                  |   |                   |       |       |       |       |       |       |       |       |       |
|--------------------------------------------------|---|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ |   |                   |       |       |       |       |       |       |       |       |       |
| Method File : VL110724AIR.M                      |   |                   |       |       |       |       |       |       |       |       |       |
| 40)                                              | T | 1,4-Dioxane       |       |       | 0.072 | 0.105 | 0.123 | 0.111 | 0.114 | 0.105 | 18.41 |
| 41)                                              | T | Tetrahydrofuran   |       |       | 0.234 | 0.281 | 0.309 | 0.295 | 0.304 | 0.284 | 10.65 |
| 42)                                              | T | Bromodichlorom... |       |       | 0.533 | 0.566 | 0.615 | 0.590 | 0.601 | 0.581 | 5.52  |
| 43)                                              |   | Methyl Methacr... |       |       | 0.196 | 0.237 | 0.278 | 0.288 | 0.302 | 0.260 | 16.62 |
| 44)                                              | T | 2,2,4-Trimethy... |       |       | 1.086 | 1.306 | 1.391 | 1.251 | 1.241 | 1.255 | 8.91  |
| 45)                                              | T | t-1,3-Dichloro... |       |       | 0.164 | 0.210 | 0.224 | 0.282 | 0.308 | 0.238 | 24.24 |
| 46)                                              | T | cis-1,3-Dichlo... |       |       | 0.256 | 0.304 | 0.350 | 0.386 | 0.411 | 0.341 | 18.26 |
| 47)                                              | T | 1,1,2-Trichlor... |       |       | 0.323 | 0.315 | 0.325 | 0.308 | 0.313 | 0.317 | 2.30  |
| 48)                                              | T | Dibromochlorom... |       |       | 0.396 | 0.458 | 0.511 | 0.515 | 0.528 | 0.482 | 11.34 |
| 49)                                              | T | Bromoform         |       |       | 0.317 | 0.383 | 0.427 | 0.459 | 0.474 | 0.412 | 15.45 |
| 50)                                              | T | 4-Methyl-2-Pen... |       |       | 0.611 | 0.753 | 0.841 | 0.806 | 0.811 | 0.764 | 11.97 |
| 51)                                              | T | 2-Hexanone        |       |       | 0.411 | 0.496 | 0.601 | 0.627 | 0.649 | 0.557 | 18.01 |
| 52)                                              | T | Tetrachloroethene | 0.202 | 0.192 | 0.248 | 0.279 | 0.285 | 0.276 | 0.285 | 0.252 | 15.83 |
| 53)                                              | T | Toluene           |       |       | 0.560 | 0.761 | 0.842 | 0.855 | 0.878 | 0.779 | 16.73 |
| 54)                                              | T | 1,2-Dibromoethane | 0.237 |       | 0.357 | 0.366 | 0.417 | 0.415 | 0.429 | 0.370 | 19.30 |
| -----ISTD-----                                   |   |                   |       |       |       |       |       |       |       |       |       |
| 55)                                              | I | Chlorobenzene-d5  |       |       |       |       |       |       |       |       |       |
| 56)                                              |   | 1,1,1,2-Tetrac... |       |       | 0.426 | 0.434 | 0.443 | 0.381 | 0.377 | 0.412 | 7.56  |
| 57)                                              | T | Chlorobenzene     |       |       | 0.783 | 0.780 | 0.793 | 0.673 | 0.669 | 0.740 | 8.54  |
| 58)                                              | T | Ethyl Benzene     |       |       | 0.868 | 1.092 | 1.232 | 1.141 | 1.148 | 1.096 | 12.52 |
| 59)                                              | T | m/p-Xylene        |       |       | 0.832 | 1.019 | 1.112 | 0.975 | 0.971 | 0.982 | 10.29 |
| 60)                                              | T | o-Xylene          |       |       | 0.771 | 0.958 | 1.068 | 0.947 | 0.937 | 0.936 | 11.35 |
| 61)                                              | T | Styrene           |       |       | 0.250 | 0.336 | 0.416 | 0.456 | 0.475 | 0.386 | 24.14 |
| 62)                                              |   | Isopropylbenzene  |       |       | 1.293 | 1.527 | 1.633 | 1.397 | 1.380 | 1.446 | 9.27  |
| 63)                                              | T | 1,1,2,2-Tetrac... | 0.731 | 0.568 | 0.693 | 0.740 | 0.773 | 0.660 | 0.656 | 0.689 | 9.95  |
| 64)                                              |   | n-propylbenzene   |       |       | 0.325 | 0.377 | 0.430 | 0.378 | 0.382 | 0.378 | 9.76  |
| 65)                                              |   | tert-Butylbenzene |       |       | 1.123 | 1.382 | 1.503 | 1.251 | 1.238 | 1.299 | 11.25 |
| 66)                                              | T | Benzyl Chloride   |       |       | 0.083 | 0.088 | 0.098 | 0.108 | 0.123 | 0.100 | 15.94 |
| 67)                                              |   | sec-Butylbenzene  |       |       | 1.586 | 1.944 | 2.139 | 1.761 | 1.728 | 1.831 | 11.68 |
| 68)                                              | S | 1-Bromo-4-Fluo... | 0.741 | 0.750 | 0.763 | 0.745 | 0.722 | 0.716 | 0.721 | 0.737 | 2.40  |
| 69)                                              |   | p-Isopropyltol... |       |       | 1.165 | 1.568 | 1.739 | 1.479 | 1.453 | 1.481 | 14.10 |
| 70)                                              |   | n-Butylbenzene    |       |       | 1.233 | 1.579 | 1.758 | 1.510 | 1.495 | 1.515 | 12.49 |
| 71)                                              |   | 2-Chlorotoluene   |       |       | 0.848 | 1.082 | 1.182 | 1.055 | 1.059 | 1.045 | 11.64 |
| 72)                                              | T | 4-Ethyltoluene    |       |       | 0.864 | 1.068 | 1.233 | 1.131 | 1.146 | 1.088 | 12.74 |
| 73)                                              | T | 1,3,5-Trimethy... |       |       | 0.794 | 0.946 | 1.096 | 0.967 | 0.973 | 0.955 | 11.27 |
| 74)                                              | T | 1,2,4-Trimethy... |       |       | 0.980 | 1.174 | 1.262 | 1.071 | 1.060 | 1.109 | 9.88  |
| 75)                                              | T | 1,3-Dichlorobe... |       |       | 0.643 | 0.711 | 0.750 | 0.659 | 0.672 | 0.687 | 6.30  |
| 76)                                              | T | 1,4-Dichlorobe... |       |       | 0.644 | 0.662 | 0.711 | 0.645 | 0.653 | 0.663 | 4.22  |
| 77)                                              | T | 1,2-Dichlorobe... |       |       | 0.643 | 0.722 | 0.739 | 0.643 | 0.657 | 0.681 | 6.76  |
| 78)                                              | T | Hexachloro-1,3... |       |       | 0.620 | 0.620 | 0.583 | 0.428 | 0.441 | 0.538 | 17.89 |
| 79)                                              | T | Naphthalene       | 0.269 |       | 0.527 | 0.738 | 0.854 | 0.832 | 0.889 | 0.685 | 35.32 |
| 80)                                              | T | Naphthalene,2-... |       |       | 0.121 | 0.128 | 0.161 | 0.140 | 0.197 | 0.149 | 20.61 |
| 81)                                              | T | 1,2,4-Trichlor... |       |       | 0.364 | 0.452 | 0.456 | 0.425 | 0.456 | 0.431 | 9.18  |

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041674.D  
 Acq On : 7 Nov 2024 10:15  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Nov 08 00:09:03 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Mahesh Dadoda 11/09/2024  
 Supervised By : Semsettin Yesilyurt 11/09/2024

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.188  | 49   | 1170802  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.651  | 114  | 3260349  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.465 | 117  | 3326206m | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 13.773 | 95    | 2380541  | 9.677    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 96.800% |

#### Target Compounds

|                               |       |     |         |        |      | Qvalue |
|-------------------------------|-------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 2.726 | 85  | 2208753 | 10.438 | ppbv | 100    |
| 3) Chlorodifluoromethane      | 2.671 | 51  | 1393427 | 9.135  | ppbv | 100    |
| 4) Chloromethane              | 2.809 | 50  | 760160  | 9.408  | ppbv | 100    |
| 5) Vinyl Chloride             | 2.915 | 62  | 732442  | 10.005 | ppbv | 100    |
| 6) Bromomethane               | 3.115 | 94  | 371242  | 9.628  | ppbv | 100    |
| 7) Chloroethane               | 3.192 | 64  | 260602  | 9.824  | ppbv | 100    |
| 8) Dichlorotetrafluoroethane  | 2.851 | 85  | 1728631 | 9.151  | ppbv | 100    |
| 9) Propene                    | 2.690 | 41  | 619994  | 9.327  | ppbv | 100    |
| 10) Heptane                   | 7.577 | 43  | 1534950 | 10.305 | ppbv | 100    |
| 11) Trichlorofluoromethane    | 3.555 | 101 | 1732857 | 9.401  | ppbv | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 4.060 | 101 | 1257722 | 9.388  | ppbv | 100    |
| 13) Ethanol                   | 3.246 | 45  | 33738m  | 8.160  | ppbv |        |
| 14) Bromoethene               | 3.362 | 108 | 504428  | 9.366  | ppbv | 100    |
| 15) Acetone                   | 3.462 | 43  | 1285781 | 8.923  | ppbv | 100    |
| 16) 1,3-Butadiene             | 2.980 | 39  | 734062  | 10.160 | ppbv | 100    |
| 17) tert-Butyl alcohol        | 3.873 | 59  | 1215299 | 9.611  | ppbv | 100    |
| 18) 1,1-Dichloroethene        | 3.873 | 96  | 557278  | 9.484  | ppbv | 100    |
| 19) Isopropyl Alcohol         | 3.571 | 45  | 646252  | 9.266  | ppbv | 100    |
| 20) Methylene Chloride        | 3.928 | 84  | 468549  | 8.837  | ppbv | 100    |
| 21) Allyl Chloride            | 3.992 | 41  | 888517  | 9.979  | ppbv | 100    |
| 22) trans-1,2-Dichloroethene  | 4.442 | 96  | 566347  | 9.660  | ppbv | 100    |
| 23) Vinyl Acetate             | 4.623 | 43  | 602236  | 8.886  | ppbv | 100    |
| 24) 1,1-Dichloroethane        | 4.558 | 63  | 1223224 | 9.380  | ppbv | 100    |
| 25) Ethyl Acetate             | 5.201 | 43  | 2883606 | 9.668  | ppbv | 100    |
| 26) Hexane                    | 5.208 | 57  | 1130877 | 9.869  | ppbv | 100    |
| 27) Carbon Disulfide          | 4.118 | 76  | 1374259 | 10.675 | ppbv | 100    |
| 28) Methyl tert-Butyl Ether   | 4.581 | 73  | 670928  | 9.092  | ppbv | 100    |
| 29) Chloroform                | 5.269 | 83  | 1779347 | 9.407  | ppbv | 100    |
| 30) Cyclohexane               | 6.597 | 84  | 965390  | 10.487 | ppbv | 100    |
| 31) cis-1,2-Dichloroethene    | 5.076 | 61  | 1095423 | 9.937  | ppbv | 100    |
| 32) 1,1,1-Trichloroethane     | 5.999 | 97  | 1742198 | 10.047 | ppbv | 100    |
| 34) 2-Butanone                | 4.780 | 43  | 1559421 | 9.606  | ppbv | 100    |
| 35) Carbon Tetrachloride      | 6.491 | 117 | 1838964 | 10.670 | ppbv | 100    |
| 36) Benzene                   | 6.365 | 78  | 2404772 | 9.955  | ppbv | 100    |
| 37) 1,2-Dichloroethane        | 5.803 | 62  | 1331275 | 9.768  | ppbv | 100    |
| 38) Trichloroethene           | 7.288 | 130 | 986911  | 10.594 | ppbv | 100    |
| 39) 1,2-Dichloropropane       | 7.073 | 63  | 927055  | 9.711  | ppbv | 100    |
| 40) 1,4-Dioxane               | 7.282 | 88  | 361524  | 10.691 | ppbv | 100    |
| 41) Tetrahydrofuran           | 5.552 | 42  | 961227  | 10.379 | ppbv | 100    |
| 42) Bromodichloromethane      | 7.246 | 83  | 1922752 | 10.153 | ppbv | 100    |
| 43) Methyl Methacrylate       | 7.471 | 69  | 939057  | 11.071 | ppbv | 100    |
| 44) 2,2,4-Trimethylpentane    | 7.323 | 57  | 4079001 | 9.968  | ppbv | 100    |
| 45) t-1,3-Dichloropropene     | 8.706 | 75  | 920537  | 12.141 | ppbv | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041674.D  
 Acq On : 7 Nov 2024 10:15  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Nov 08 00:09:03 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

### Manual Integrations APPROVED

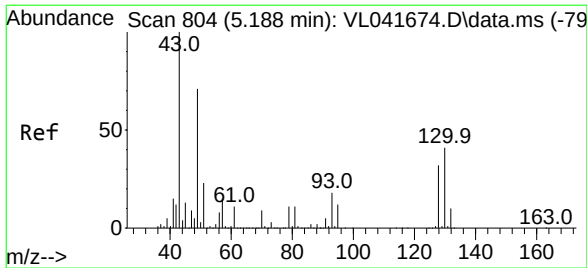
Reviewed By : Mahesh Dadoda 11/09/2024  
 Supervised By : Semsettin Yesilyurt 11/09/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.140  | 75   | 1257121  | 11.408 | ppbv  | 100      |
| 47) 1,1,2-Trichloroethane     | 8.896  | 97   | 1003150  | 9.746  | ppbv  | 100      |
| 48) Dibromochloromethane      | 9.709  | 129  | 1679053  | 10.690 | ppbv  | 100      |
| 49) Bromoform                 | 12.404 | 173  | 1497222  | 11.174 | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.179  | 43   | 2628657  | 10.544 | ppbv  | 100      |
| 51) 2-Hexanone                | 9.548  | 43   | 2043690  | 11.281 | ppbv  | 100      |
| 52) Tetrachloroethene         | 10.616 | 164  | 899580   | 10.893 | ppbv  | 100      |
| 53) Toluene                   | 9.217  | 91   | 2787590  | 10.973 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.008 | 107  | 1353490  | 11.262 | ppbv  | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 11.507 | 131  | 1266326  | 9.142  | ppbv  | 100      |
| 57) Chlorobenzene             | 11.526 | 112  | 2237328  | 9.024  | ppbv  | 100      |
| 58) Ethyl Benzene             | 12.085 | 91   | 3795372  | 10.301 | ppbv  | 100      |
| 59) m/p-Xylene                | 12.368 | 91   | 6483858m | 19.671 | ppbv  |          |
| 60) o-Xylene                  | 13.056 | 91   | 3148609  | 10.005 | ppbv  | 100      |
| 61) Styrene                   | 12.896 | 104  | 1515741  | 11.670 | ppbv  | 100      |
| 62) Isopropylbenzene          | 14.027 | 105  | 4647017  | 9.566  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.043 | 83   | 2194609  | 9.578  | ppbv  | 100      |
| 64) n-propylbenzene           | 14.912 | 120  | 1256955  | 9.895  | ppbv  | 100      |
| 65) tert-Butylbenzene         | 16.088 | 119  | 4162243  | 9.533  | ppbv  | 100      |
| 66) Benzyl Chloride           | 16.326 | 91   | 359794   | 11.442 | ppbv  | 100      |
| 67) sec-Butylbenzene          | 16.635 | 105  | 5857608  | 9.519  | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 16.992 | 119  | 4920309  | 9.887  | ppbv  | 100      |
| 70) n-Butylbenzene            | 17.882 | 91   | 5021145  | 9.843  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 14.796 | 91   | 3508288  | 9.986  | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 15.191 | 105  | 3763123  | 10.297 | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 15.349 | 105  | 3217635  | 10.042 | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.104 | 105  | 3563067  | 9.559  | ppbv  | 100      |
| 75) 1,3-Dichlorobenzene       | 16.326 | 146  | 2192903  | 9.524  | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 16.471 | 146  | 2144446  | 9.479  | ppbv  | 100      |
| 77) 1,2-Dichlorobenzene       | 17.140 | 146  | 2138612  | 9.353  | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 22.631 | 225  | 1422723m | 7.865  | ppbv  |          |
| 79) Naphthalene               | 21.384 | 128  | 2767333  | 12.072 | ppbv  | 100      |
| 80) Naphthalene,2-methyl-     | 24.374 | 142  | 466005   | 10.957 | ppbv  | 100      |
| 81) 1,2,4-Trichlorobenzene    | 21.136 | 180  | 1415249  | 9.925  | ppbv  | 100      |

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

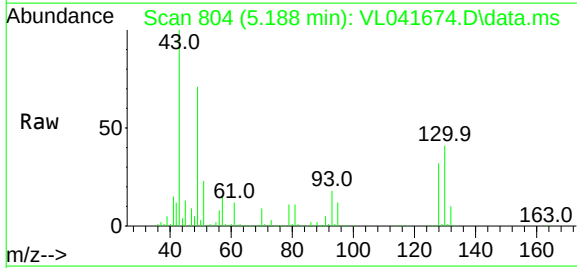






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.188 min Scan# 804  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

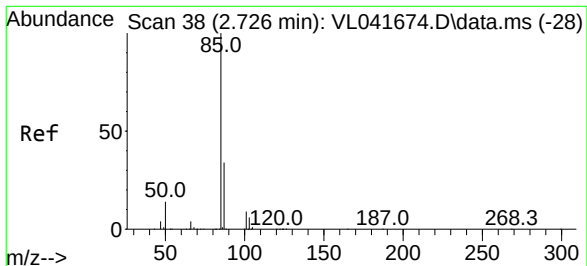
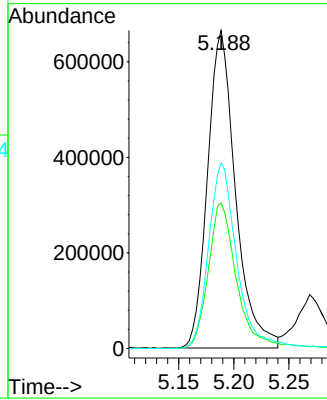
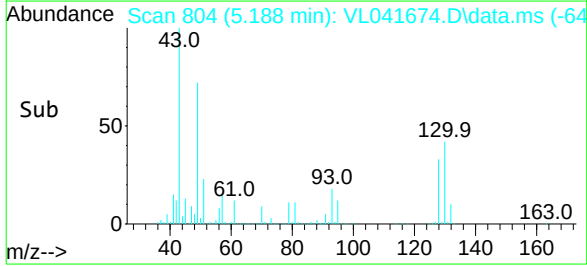
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 49 Resp: 1170802  
Ion Ratio Lower Upper  
49 100  
128 47.5 23.8 71.2  
130 60.3 30.1 90.5

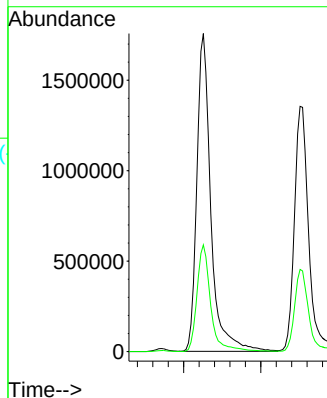
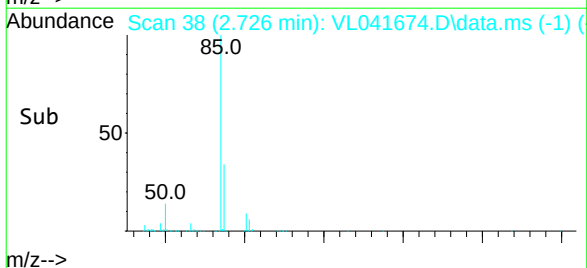
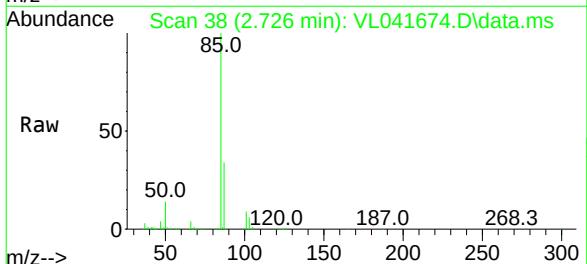
Manual Integrations  
APPROVED

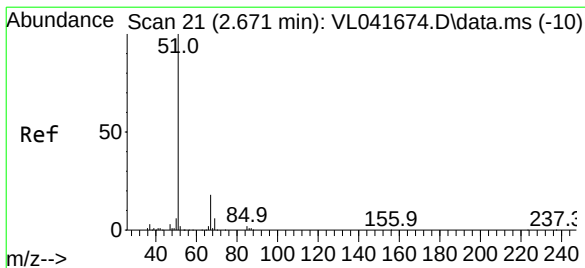
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#2  
Dichlorodifluoromethane  
Concen: 10.438 ppbv  
RT: 2.726 min Scan# 38  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

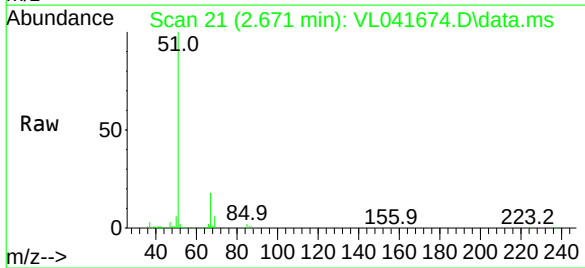
Tgt Ion: 85 Resp: 2208753  
Ion Ratio Lower Upper  
85 100  
87 33.5 26.8 40.2





#3  
Chlorodifluoromethane  
Concen: 9.135 ppbv  
RT: 2.671 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

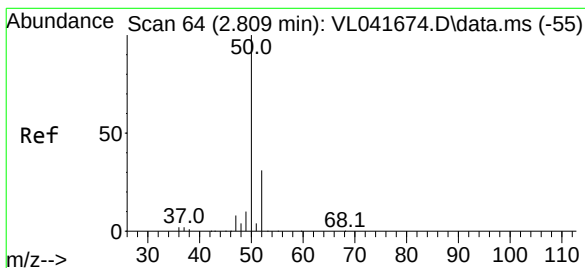
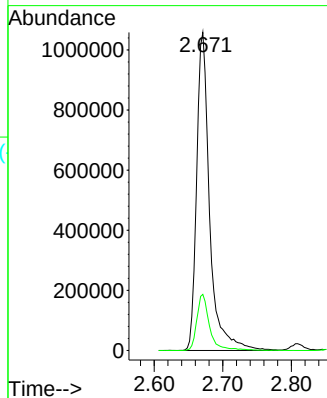
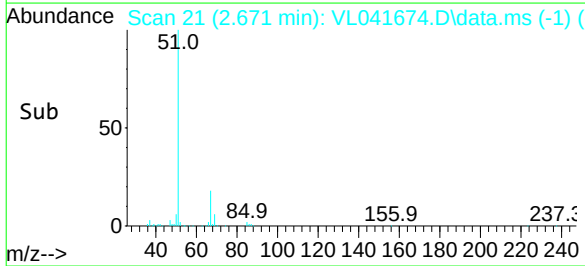
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 51 Resp: 1393427  
Ion Ratio Lower Upper  
51 100  
67 17.4 13.9 20.9

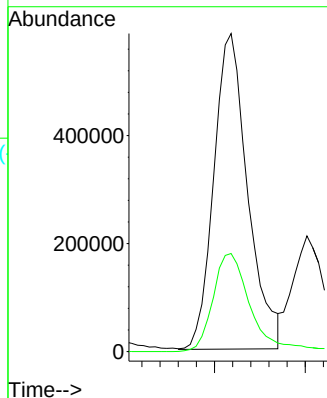
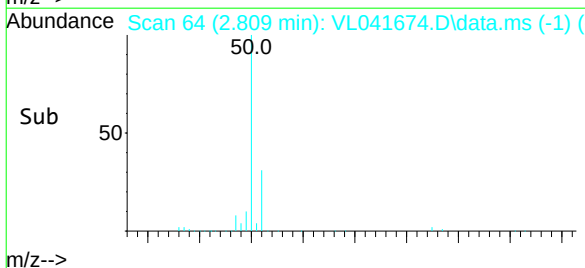
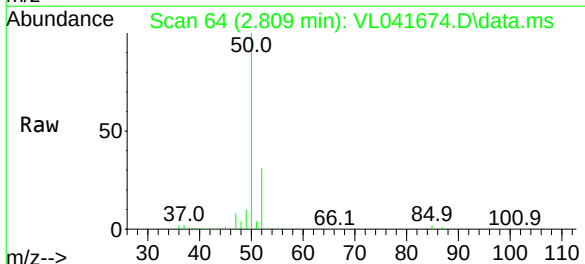
Manual Integrations  
APPROVED

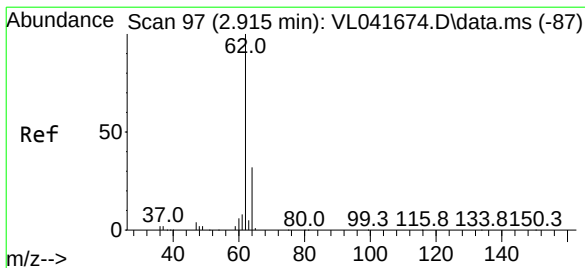
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#4  
Chloromethane  
Concen: 9.408 ppbv  
RT: 2.809 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 50 Resp: 760160  
Ion Ratio Lower Upper  
50 100  
52 31.1 24.9 37.3





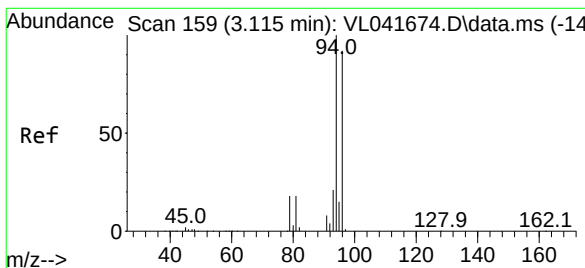
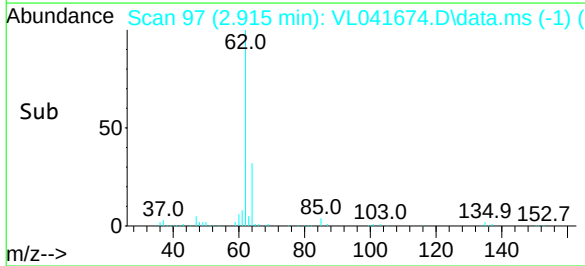
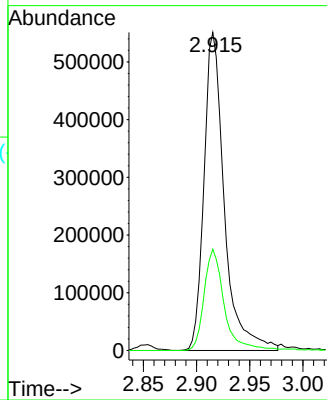
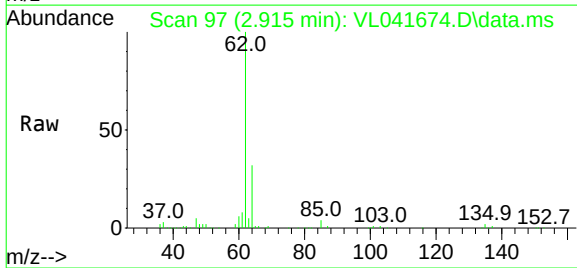
#5  
 Vinyl Chloride  
 Concen: 10.005 ppbv  
 RT: 2.915 min Scan# 97  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion: 62 Resp: 732442  
 Ion Ratio Lower Upper  
 62 100  
 64 31.8 25.4 38.2

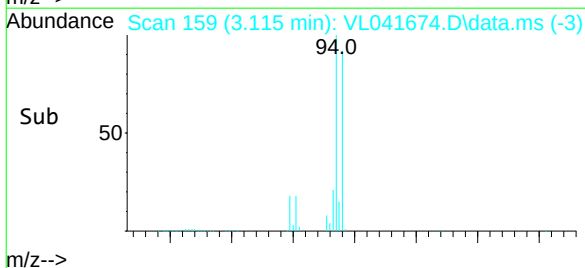
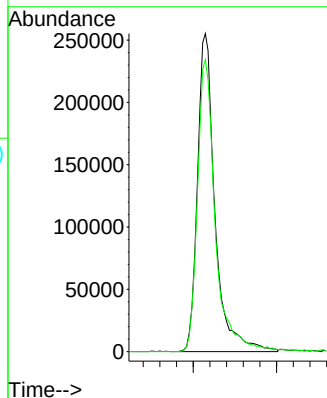
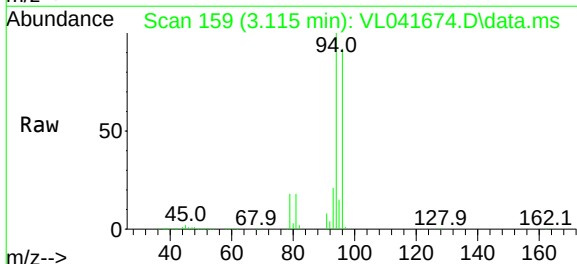
Manual Integrations  
 APPROVED

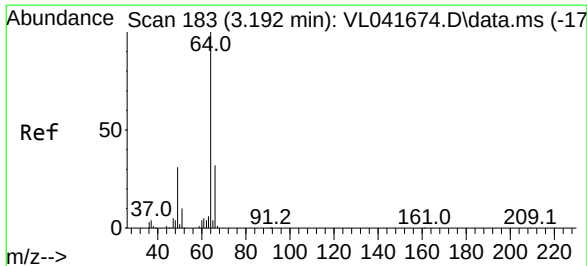
Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024



#6  
 Bromomethane  
 Concen: 9.628 ppbv  
 RT: 3.115 min Scan# 159  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

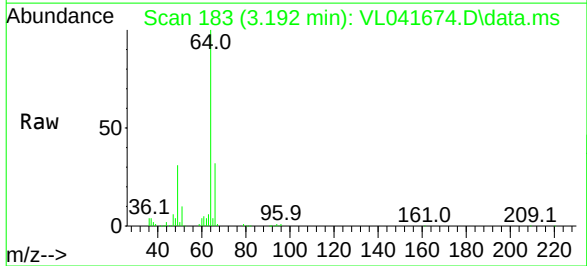
Tgt Ion: 94 Resp: 371242  
 Ion Ratio Lower Upper  
 94 100  
 96 91.8 73.4 110.2





#7  
Chloroethane  
Concen: 9.824 ppbv  
RT: 3.192 min Scan# 18  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

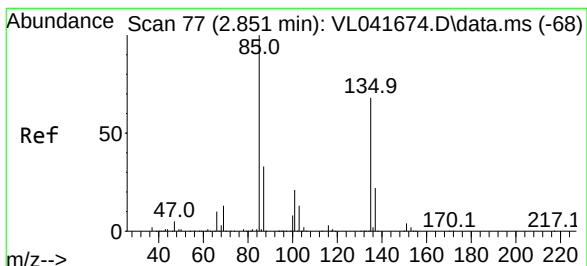
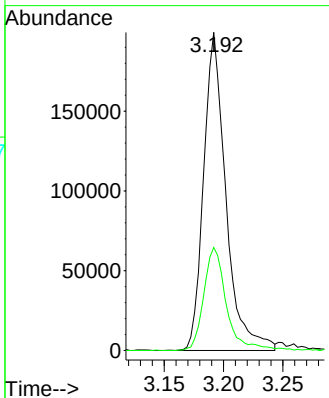
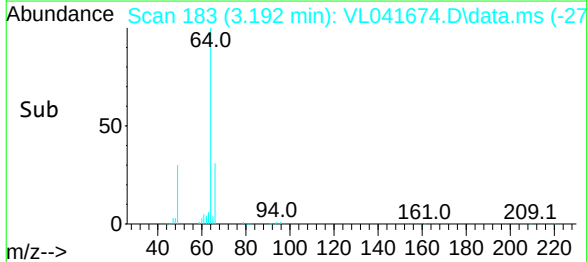
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 64 Resp: 260602  
Ion Ratio Lower Upper  
64 100  
66 32.4 25.9 38.9

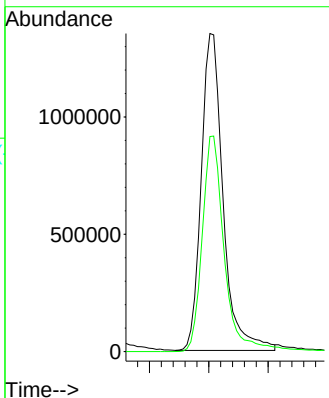
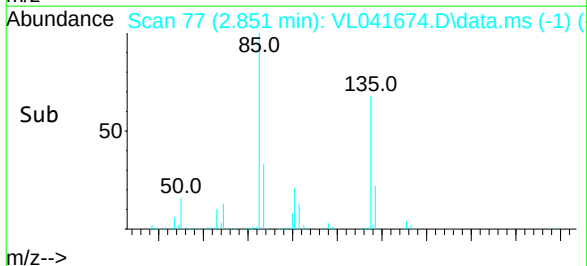
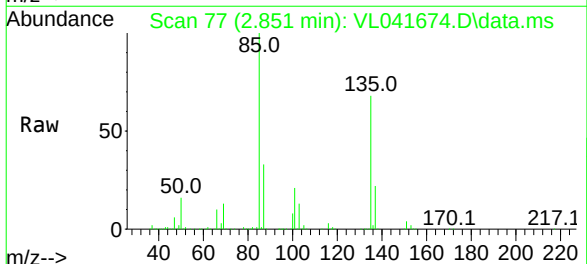
Manual Integrations  
APPROVED

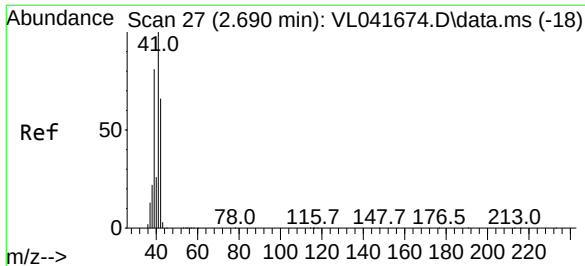
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#8  
Dichlorotetrafluoroethane  
Concen: 9.151 ppbv  
RT: 2.851 min Scan# 77  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 85 Resp: 1728631  
Ion Ratio Lower Upper  
85 100  
135 69.4 55.5 83.3





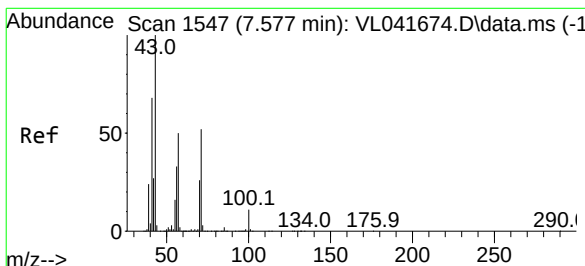
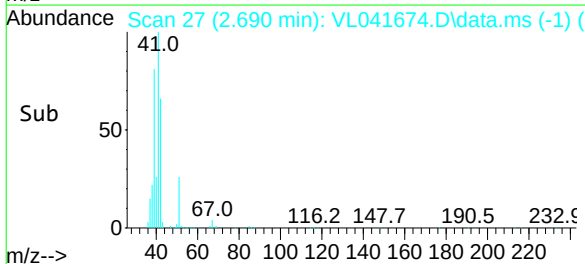
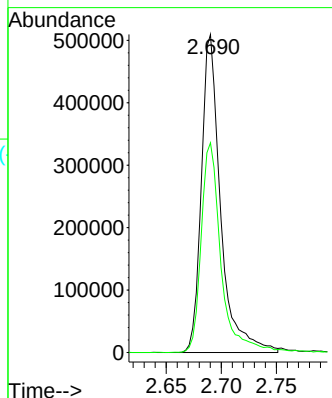
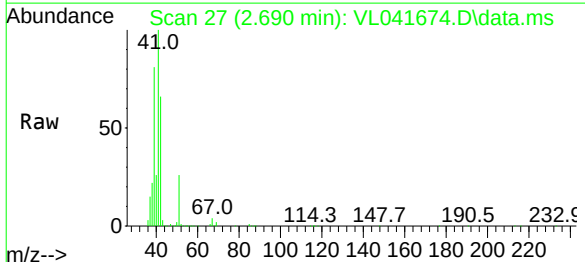
#9  
Propene  
Concen: 9.327 ppbv  
RT: 2.690 min Scan# 27  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 41 Resp: 619994  
Ion Ratio Lower Upper  
41 100  
42 68.7 55.0 82.4

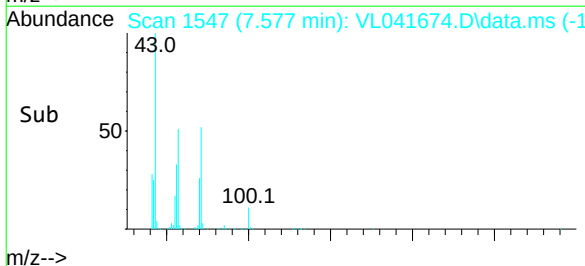
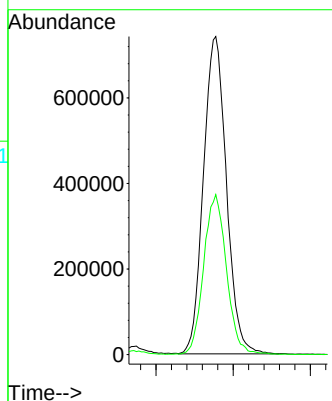
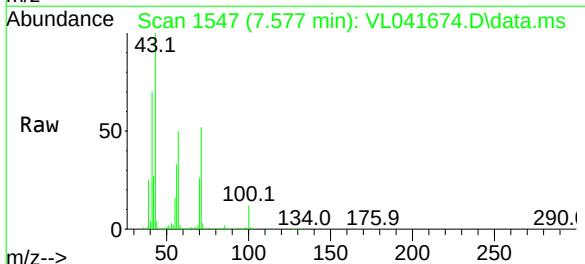
Manual Integrations  
APPROVED

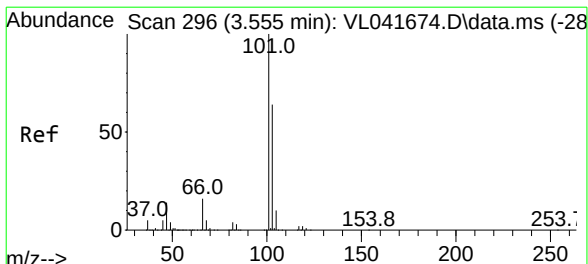
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#10  
Heptane  
Concen: 10.305 ppbv  
RT: 7.577 min Scan# 1547  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

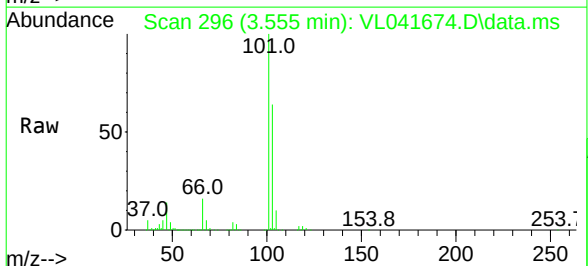
Tgt Ion: 43 Resp: 1534950  
Ion Ratio Lower Upper  
43 100  
57 50.0 40.0 60.0





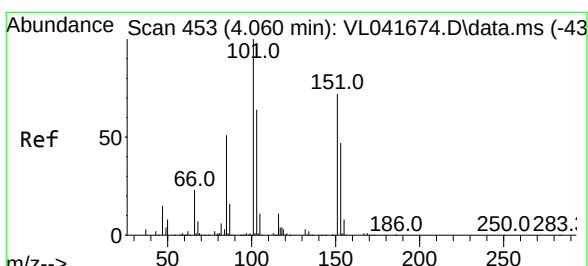
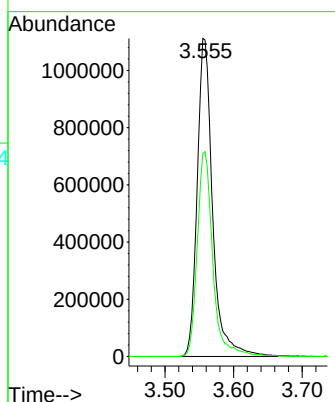
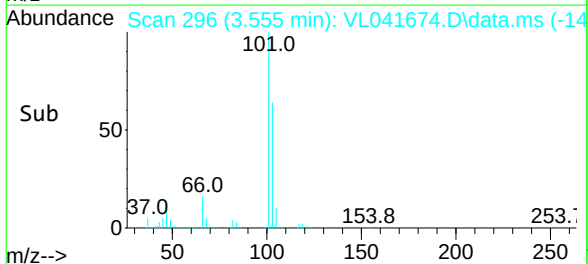
#11  
 Trichlorofluoromethane  
 Concen: 9.401 ppbv  
 RT: 3.555 min Scan# 296  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

Instrument : MSVOA\_L  
 ClientSampleId : VSTDICCC010

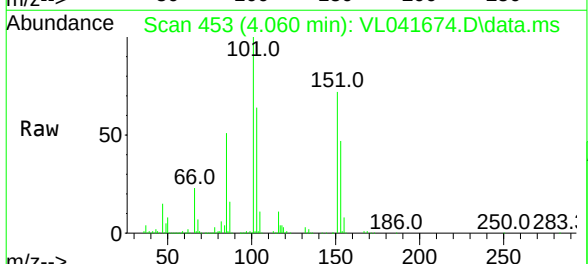


Tgt Ion:101 Resp: 1732857  
 Ion Ratio Lower Upper  
 101 100  
 103 63.8 51.0 76.6

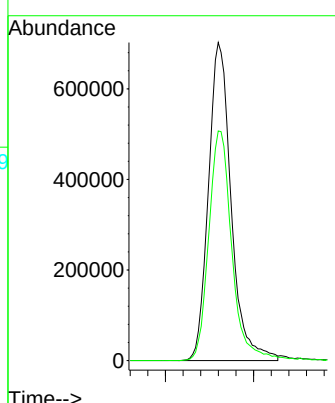
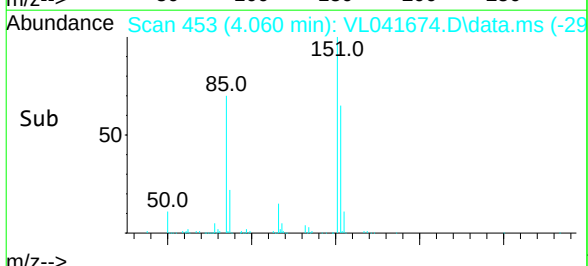
Manual Integrations  
**APPROVED**  
 Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

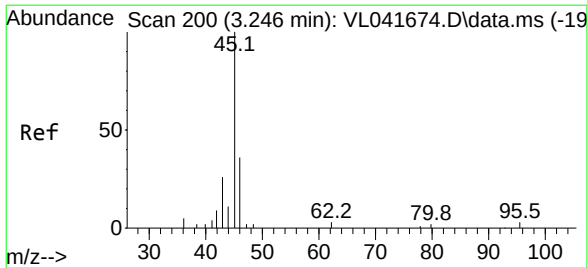


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.388 ppbv  
 RT: 4.060 min Scan# 453  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15



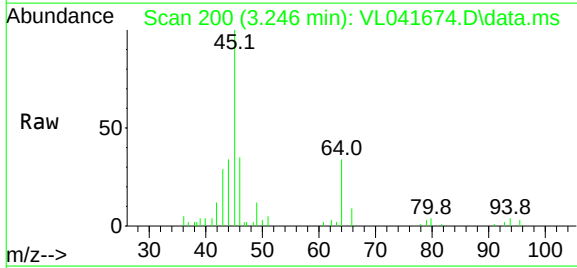
Tgt Ion:101 Resp: 1257722  
 Ion Ratio Lower Upper  
 101 100  
 151 73.9 59.1 88.7





#13  
Ethanol  
Concen: 8.160 ppbv m  
RT: 3.246 min Scan# 200  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

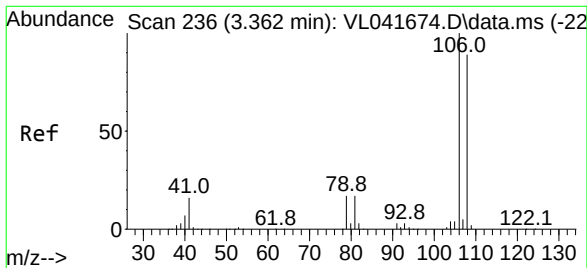
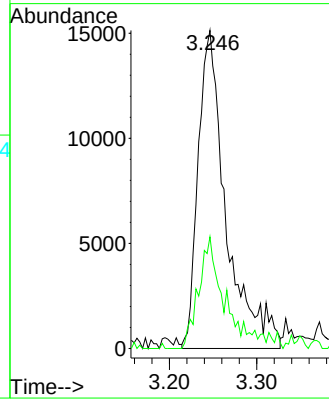
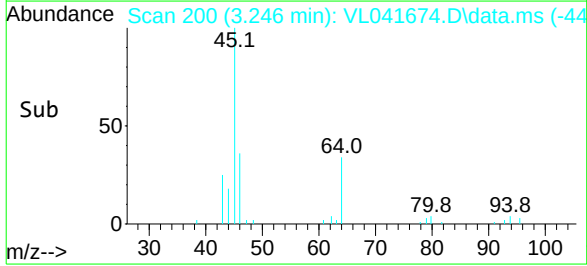
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



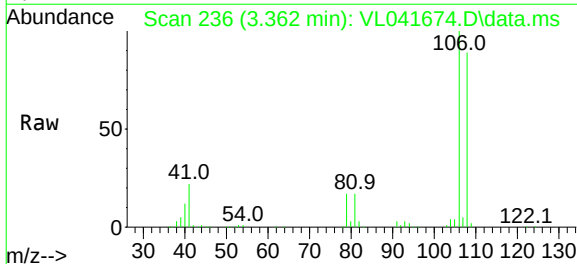
Tgt Ion: 45 Resp: 33738  
Ion Ratio Lower Upper  
45 100  
46 34.5 13.8 55.2

Manual Integrations  
APPROVED

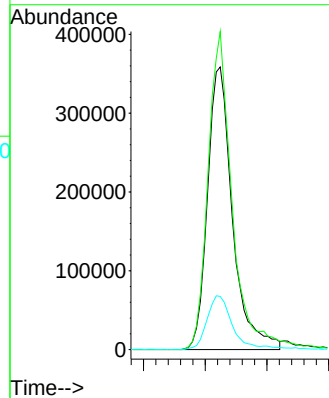
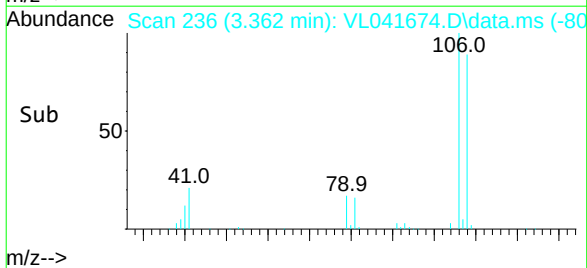
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



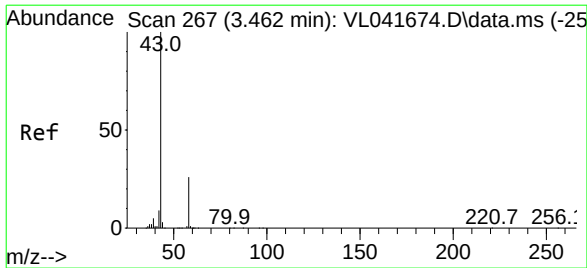
#14  
Bromoethene  
Concen: 9.366 ppbv  
RT: 3.362 min Scan# 236  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15



Tgt Ion:108 Resp: 504428  
Ion Ratio Lower Upper  
108 100  
106 110.8 88.6 133.0  
79 19.5 15.6 23.4

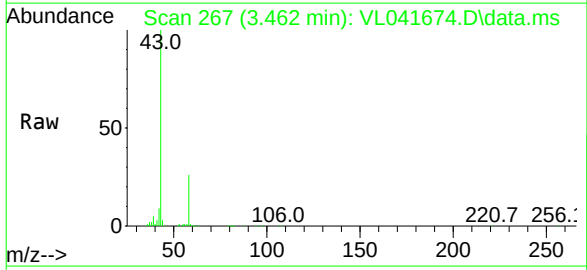






#15  
Acetone  
Concen: 8.923 ppbv  
RT: 3.462 min Scan# 267  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

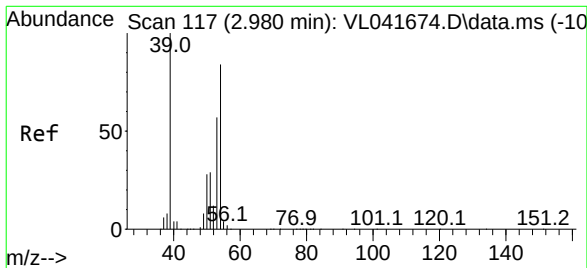
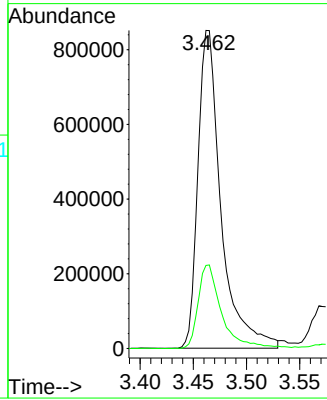
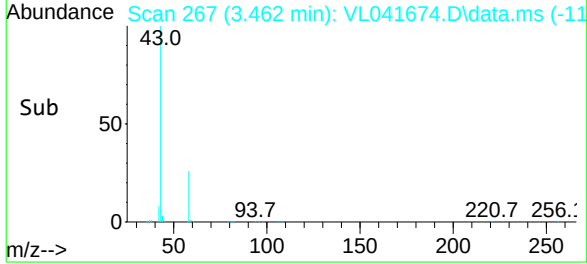
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 43 Resp: 1285781  
Ion Ratio Lower Upper  
43 100  
58 26.7 21.4 32.0

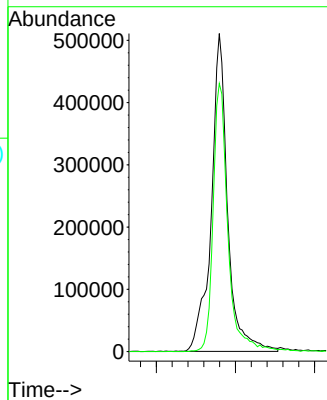
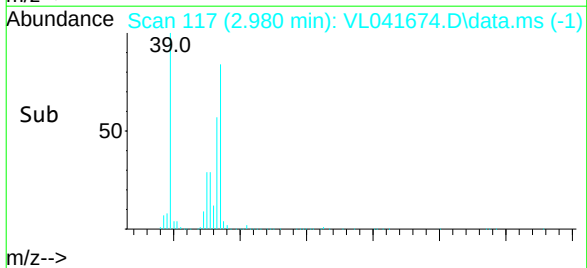
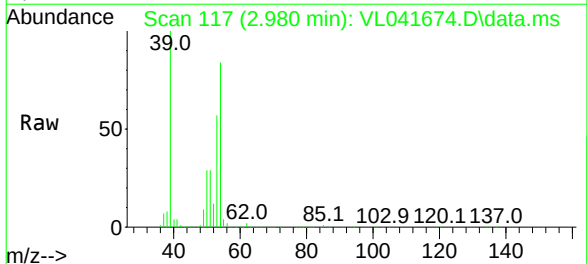
Manual Integrations  
APPROVED

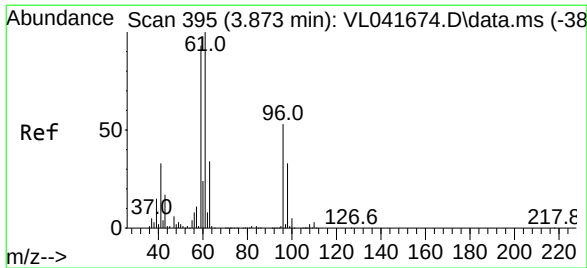
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#16  
1,3-Butadiene  
Concen: 10.160 ppbv  
RT: 2.980 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

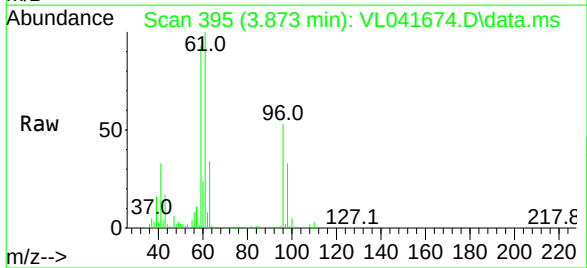
Tgt Ion: 39 Resp: 734062  
Ion Ratio Lower Upper  
39 100  
54 76.6 61.3 91.9





#17  
tert-Butyl alcohol  
Concen: 9.611 ppbv  
RT: 3.873 min Scan# 395  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

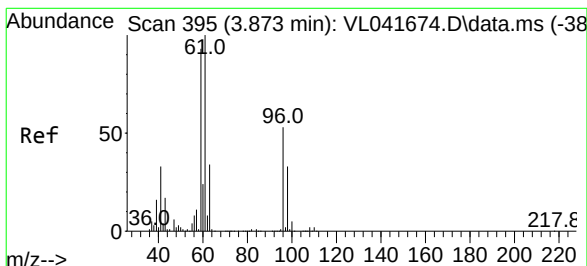
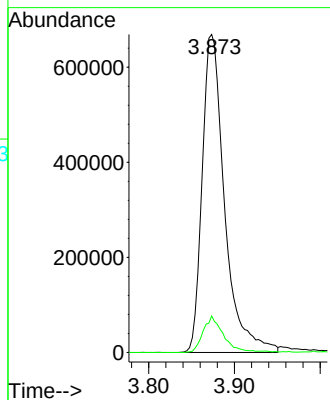
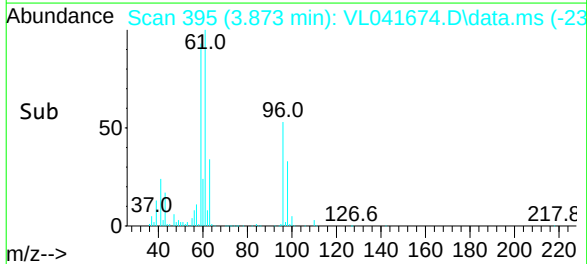
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



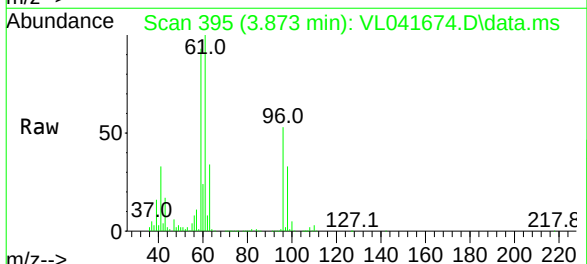
Tgt Ion: 59 Resp: 1215299  
Ion Ratio Lower Upper  
59 100  
57 10.6 8.5 12.7

Manual Integrations  
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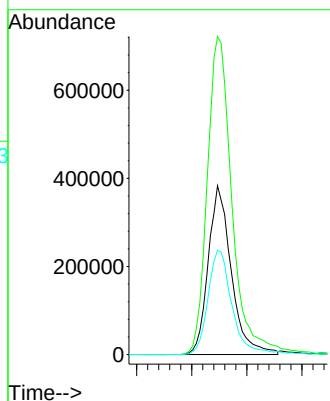
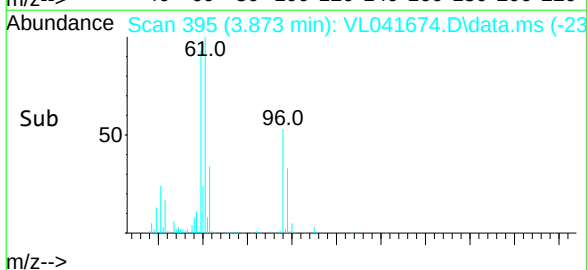
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

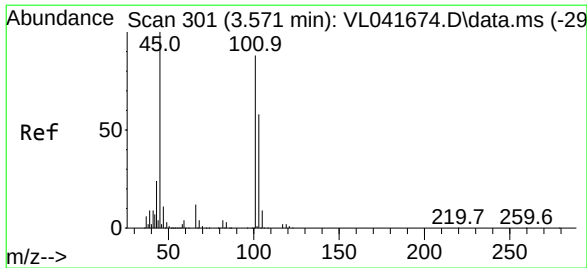


#18  
1,1-Dichloroethene  
Concen: 9.484 ppbv  
RT: 3.873 min Scan# 395  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15



Tgt Ion: 96 Resp: 557278  
Ion Ratio Lower Upper  
96 100  
61 188.4 150.7 226.1  
98 61.8 49.4 74.2





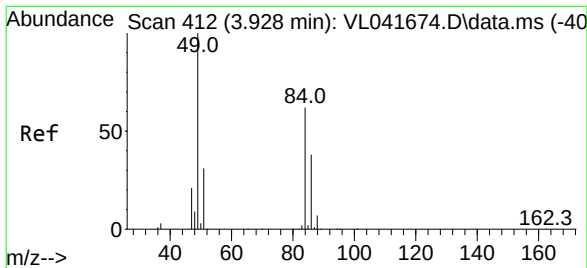
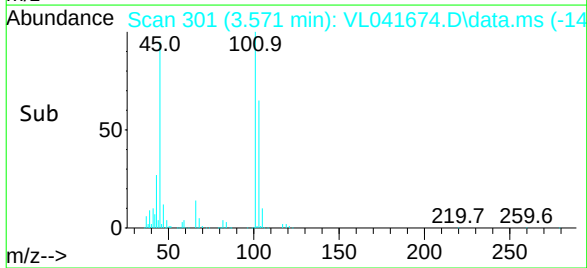
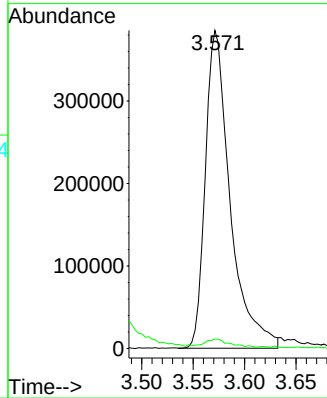
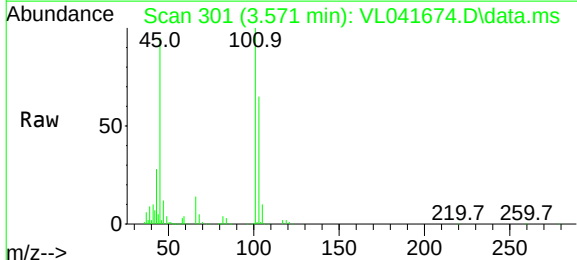
#19  
Isopropyl Alcohol  
Concen: 9.266 ppbv  
RT: 3.571 min Scan# 301  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 45 Resp: 646252  
Ion Ratio Lower Upper  
45 100  
58 3.1 2.5 3.7

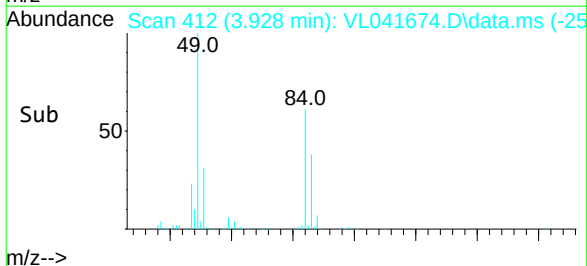
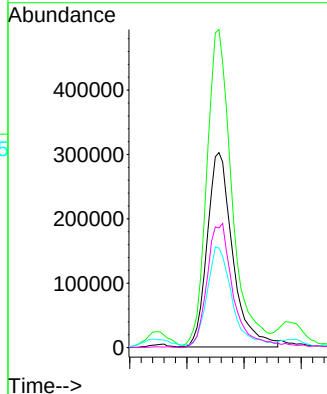
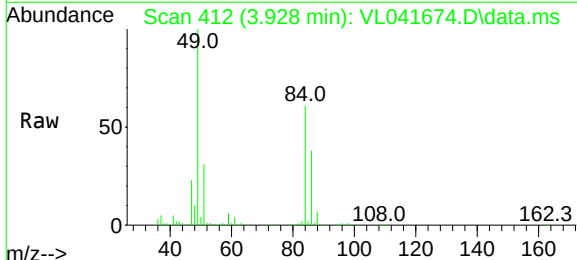
Manual Integrations  
APPROVED

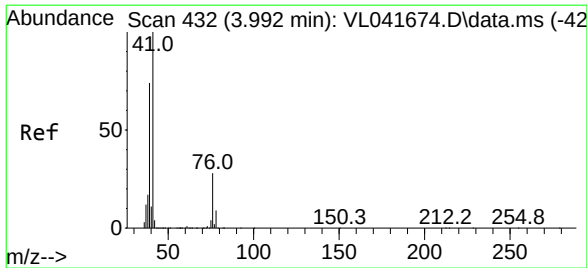
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#20  
Methylene Chloride  
Concen: 8.837 ppbv  
RT: 3.928 min Scan# 412  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 84 Resp: 468549  
Ion Ratio Lower Upper  
84 100  
49 162.1 129.7 194.5  
51 49.7 39.8 59.6  
86 61.4 49.1 73.7





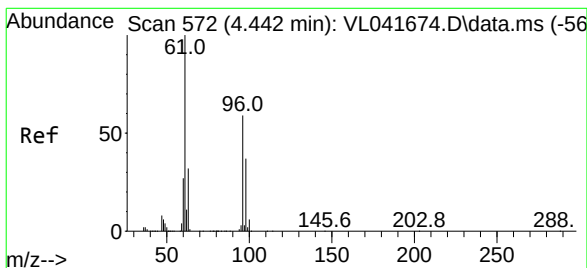
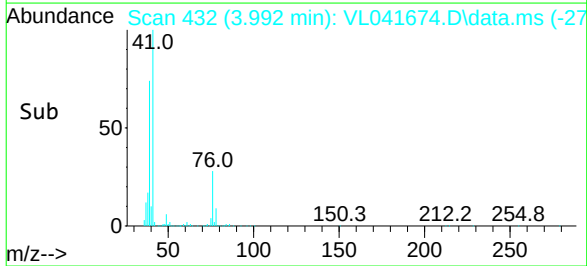
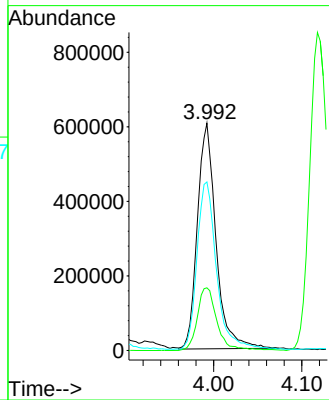
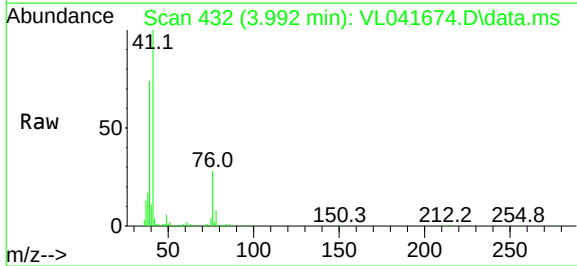
#21  
 Allyl Chloride  
 Concen: 9.979 ppbv  
 RT: 3.992 min Scan# 432  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

|             |              |
|-------------|--------------|
| Tgt Ion: 41 | Resp: 888517 |
| Ion Ratio   | Lower Upper  |
| 41 100      |              |
| 76 29.4     | 23.5 35.3    |
| 39 78.7     | 63.0 94.4    |

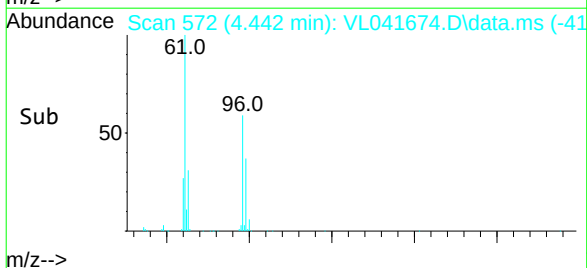
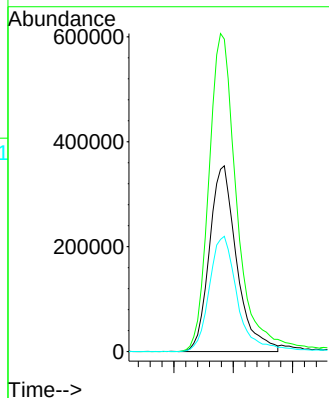
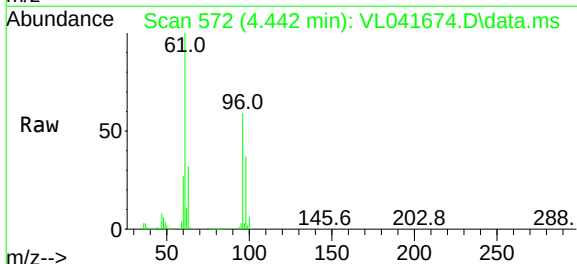
Manual Integrations  
 APPROVED

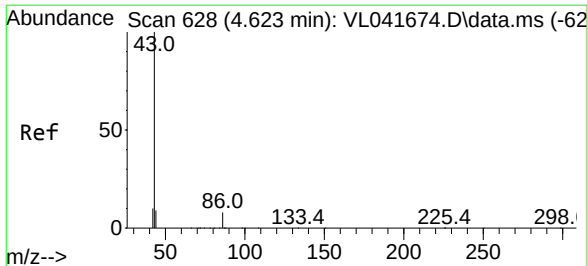
Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.660 ppbv  
 RT: 4.442 min Scan# 572  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

|             |              |
|-------------|--------------|
| Tgt Ion: 96 | Resp: 566347 |
| Ion Ratio   | Lower Upper  |
| 96 100      |              |
| 61 168.1    | 134.5 201.7  |
| 98 62.0     | 49.6 74.4    |





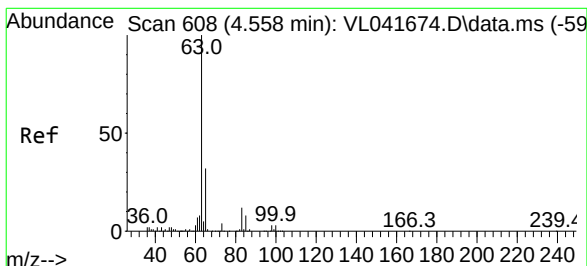
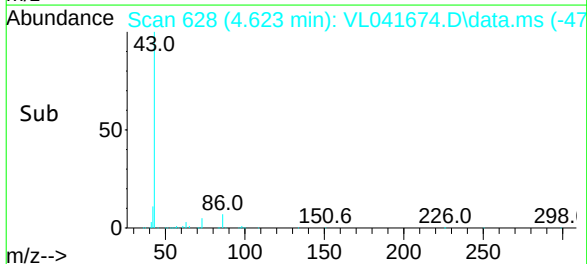
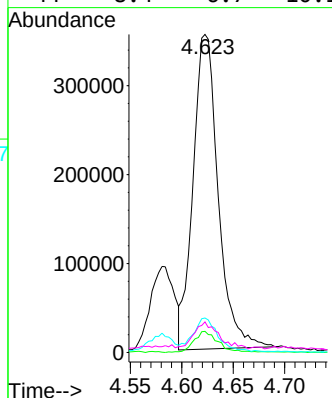
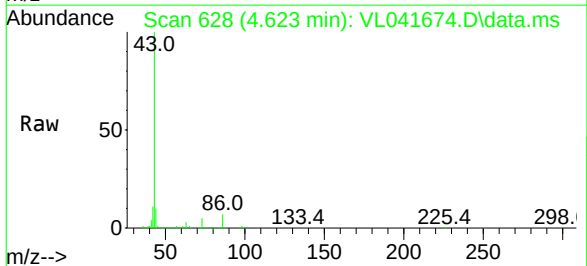
#23  
Vinyl Acetate  
Concen: 8.886 ppbv  
RT: 4.623 min Scan# 628  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 602236 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 6.6   | 5.3   | 7.9    |
| 42       | 10.6  | 8.5   | 12.7   |
| 44       | 8.4   | 6.7   | 10.1   |

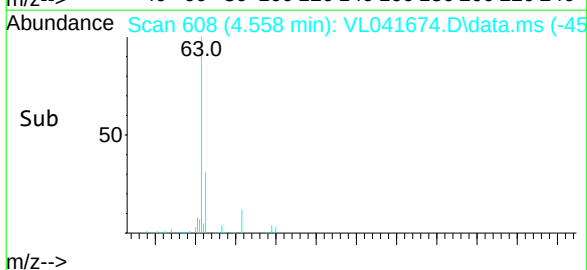
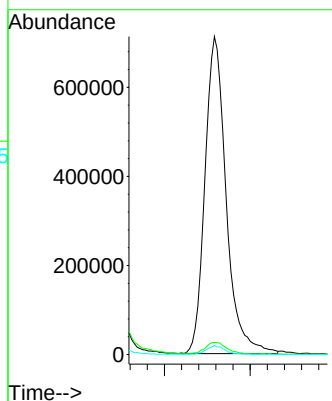
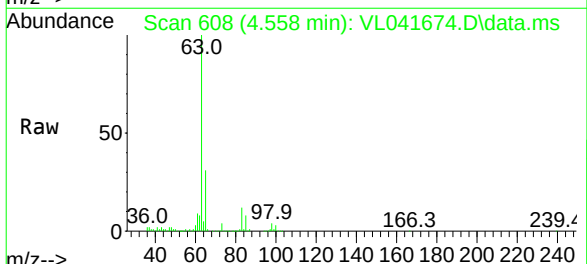
Manual Integrations  
APPROVED

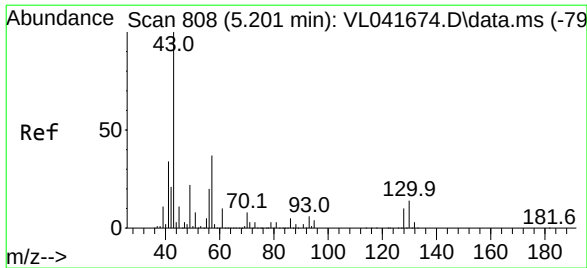
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#24  
1,1-Dichloroethane  
Concen: 9.380 ppbv  
RT: 4.558 min Scan# 608  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

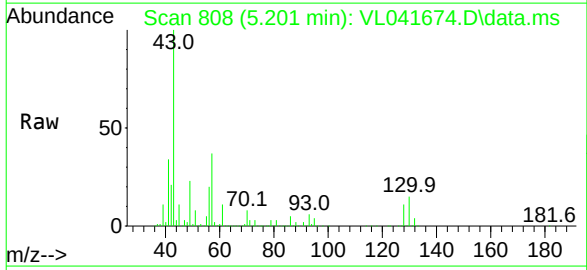
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 63    | Resp: | 1223224 |
| Ion      | Ratio | Lower | Upper   |
| 63       | 100   |       |         |
| 98       | 3.6   | 1.8   | 5.4     |
| 100      | 2.8   | 1.4   | 4.2     |





#25  
Ethyl Acetate  
Concen: 9.668 ppbv  
RT: 5.201 min Scan# 808  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

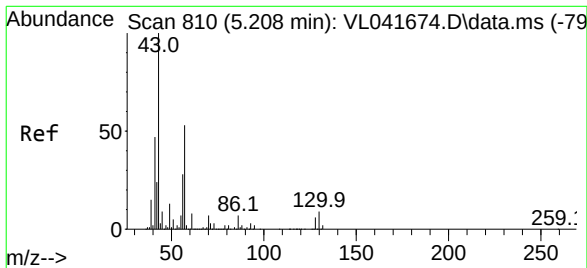
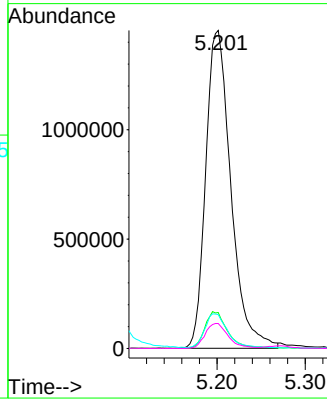
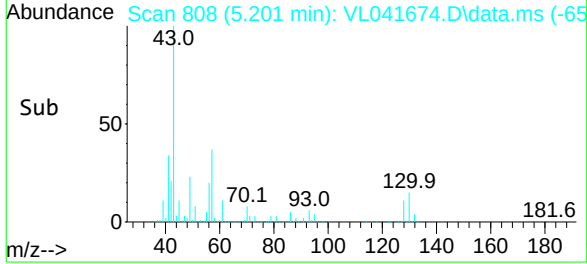
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 43 Resp: 2883606  
Ion Ratio Lower Upper  
43 100  
45 10.8 8.6 13.0  
61 10.5 8.4 12.6  
70 7.2 5.8 8.6

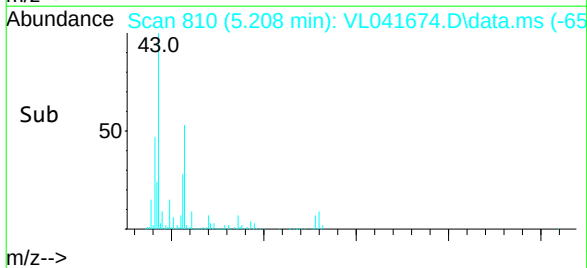
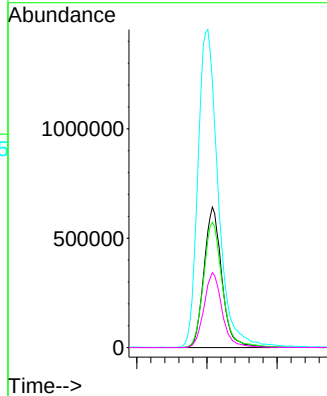
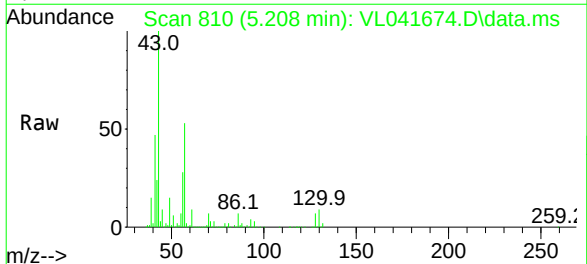
Manual Integrations  
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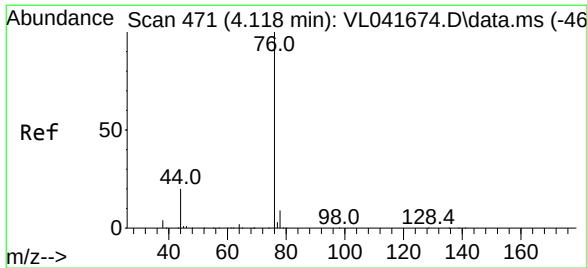
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#26  
Hexane  
Concen: 9.869 ppbv  
RT: 5.208 min Scan# 810  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

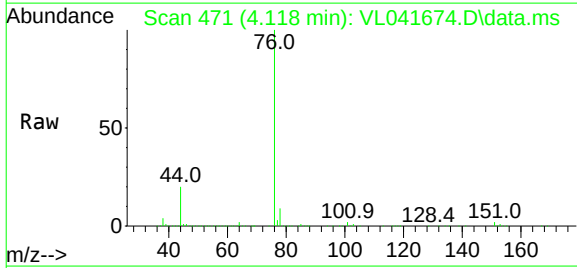
Tgt Ion: 57 Resp: 1130877  
Ion Ratio Lower Upper  
57 100  
41 95.1 76.1 114.1  
43 258.8 207.0 310.6  
56 54.6 43.7 65.5





#27  
Carbon Disulfide  
Concen: 10.675 ppbv  
RT: 4.118 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

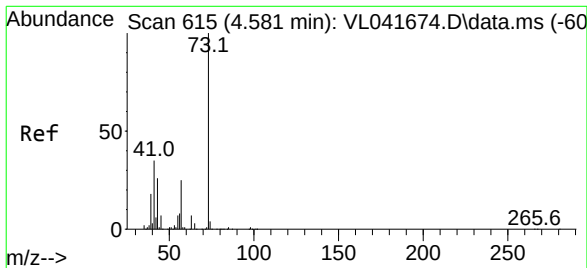
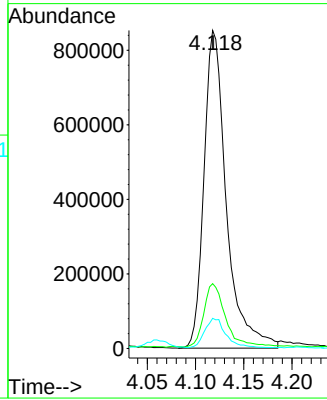
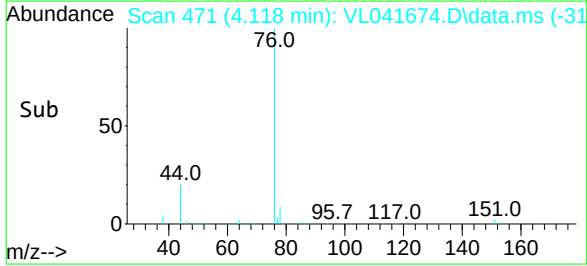
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



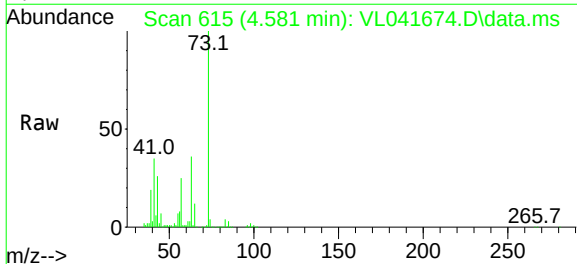
Tgt Ion: 76 Resp: 1374259  
Ion Ratio Lower Upper  
76 100  
44 19.8 15.8 23.8  
78 9.4 7.5 11.3

Manual Integrations  
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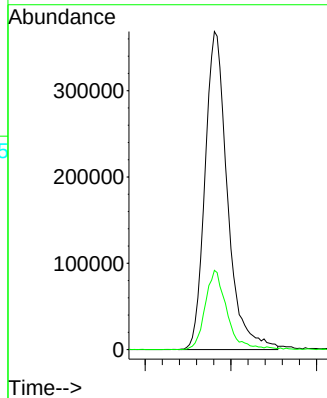
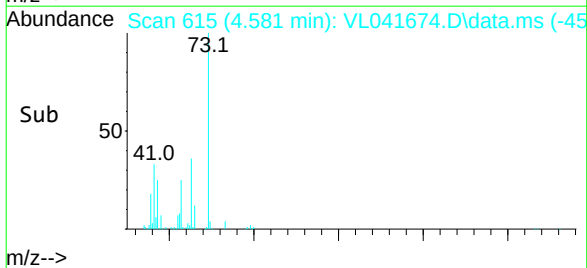
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

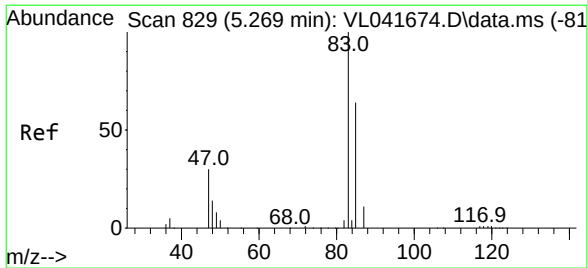


#28  
Methyl tert-Butyl Ether  
Concen: 9.092 ppbv  
RT: 4.581 min Scan# 615  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15



Tgt Ion: 73 Resp: 670928  
Ion Ratio Lower Upper  
73 100  
57 24.5 19.6 29.4





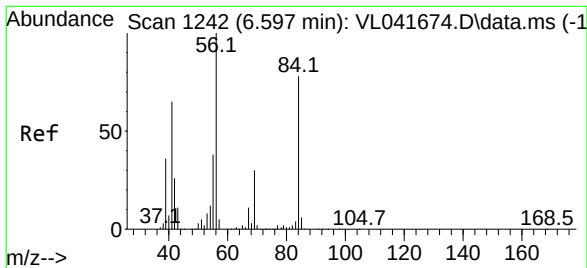
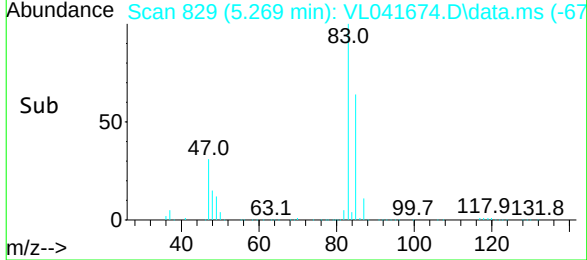
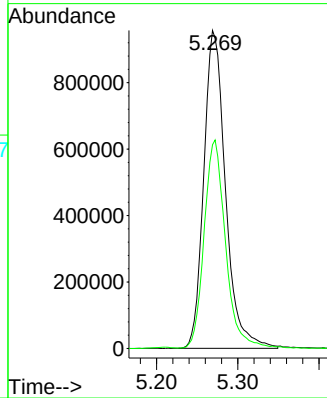
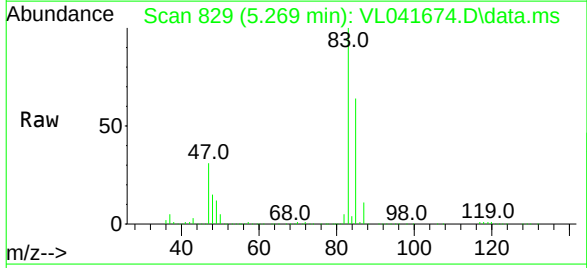
#29  
Chloroform  
Concen: 9.407 ppbv  
RT: 5.269 min Scan# 829  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 83 Resp: 1779347  
Ion Ratio Lower Upper  
83 100  
85 63.9 51.1 76.7

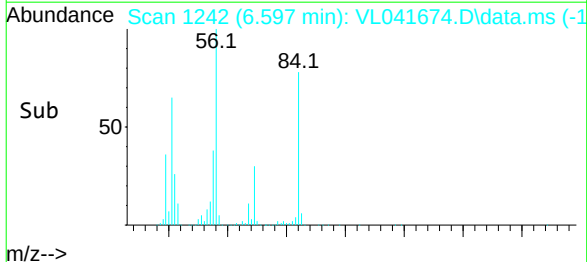
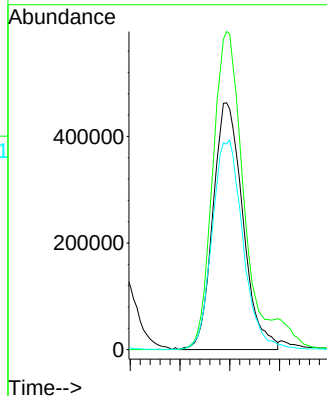
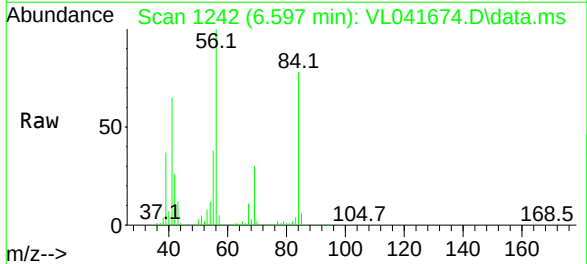
Manual Integrations  
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Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

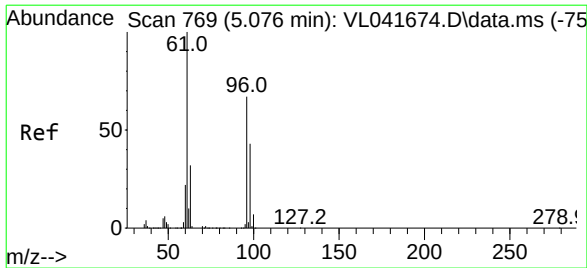


#30  
Cyclohexane  
Concen: 10.487 ppbv  
RT: 6.597 min Scan# 1242  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 84 Resp: 965390  
Ion Ratio Lower Upper  
84 100  
56 138.5 110.8 166.2  
41 87.5 70.0 105.0

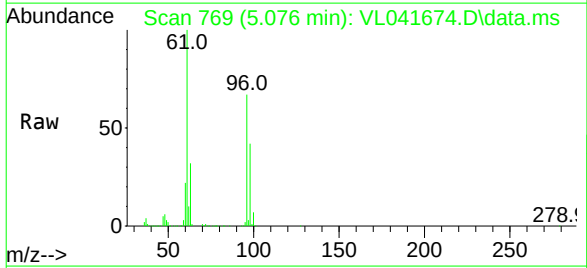






#31  
 cis-1,2-Dichloroethene  
 Concen: 9.937 ppbv  
 RT: 5.076 min Scan# 769  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

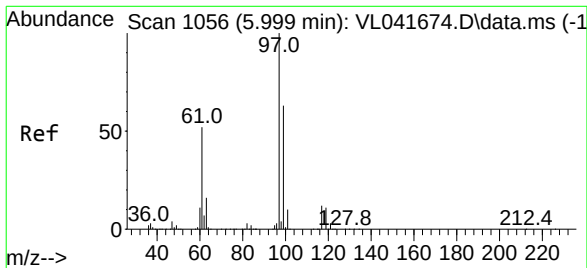
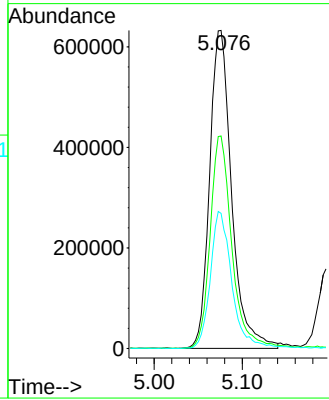
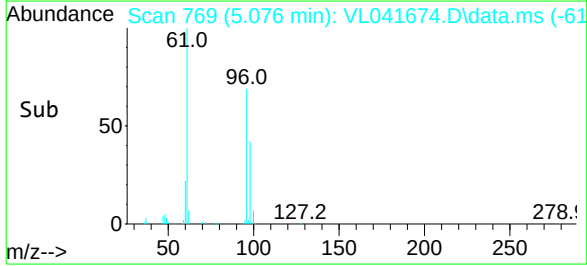
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



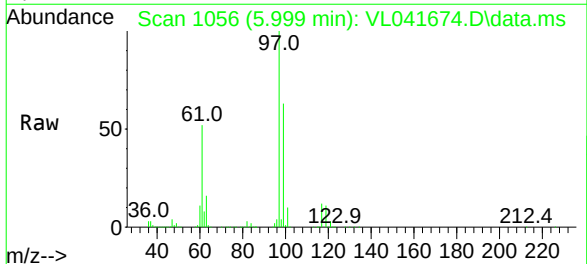
Tgt Ion: 61 Resp: 1095423  
 Ion Ratio Lower Upper  
 61 100  
 96 66.8 53.4 80.2  
 98 42.5 34.0 51.0

Manual Integrations  
 APPROVED

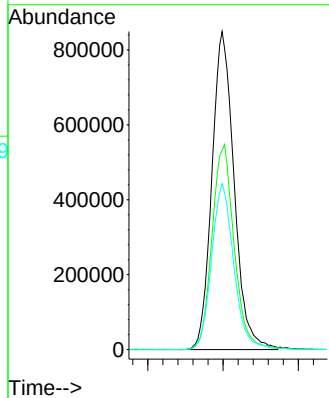
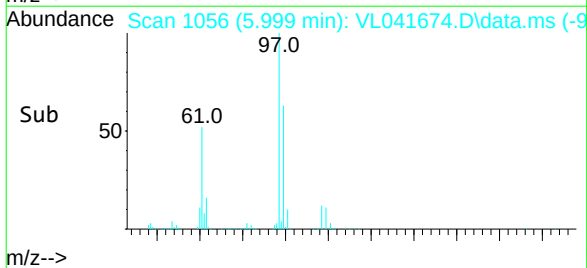
Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

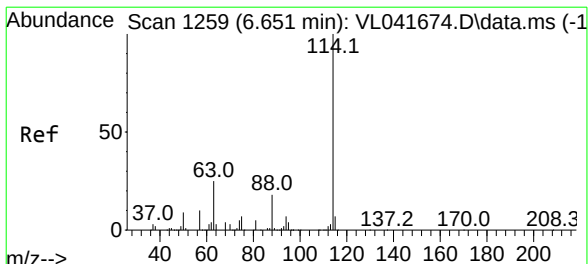


#32  
 1,1,1-Trichloroethane  
 Concen: 10.047 ppbv  
 RT: 5.999 min Scan# 1056  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15



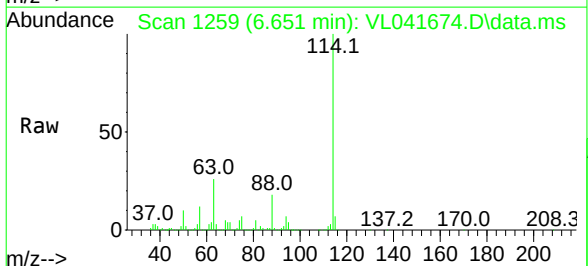
Tgt Ion: 97 Resp: 1742198  
 Ion Ratio Lower Upper  
 97 100  
 99 64.3 51.4 77.2  
 61 52.1 41.7 62.5





#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 6.651 min Scan# 1259  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

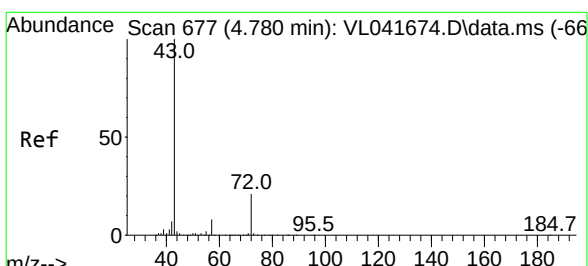
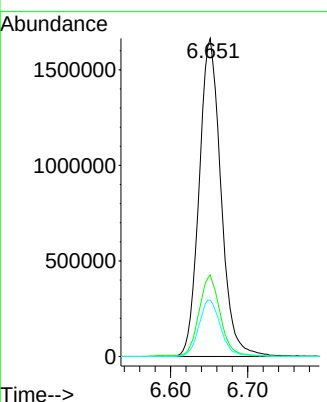
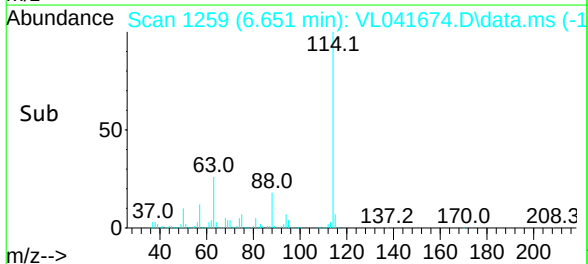
Instrument : MSVOA\_L  
 ClientSampleId : VSTDICCC010



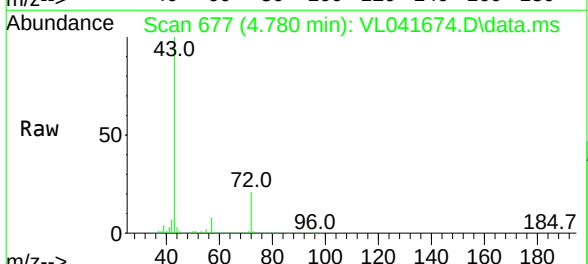
Tgt Ion: 114 Resp: 3260349

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 25.4  | 20.3  | 30.5  |
| 88  | 17.8  | 14.2  | 21.4  |

Manual Integrations  
**APPROVED**  
 Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

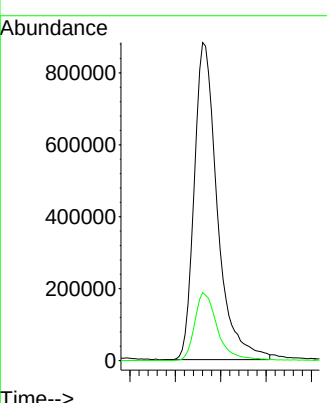
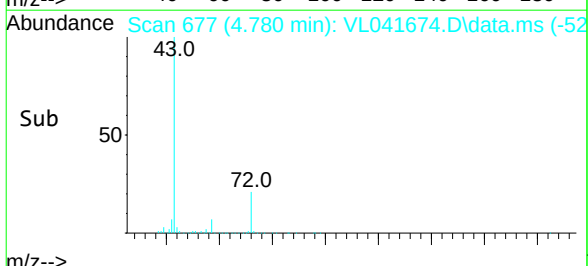


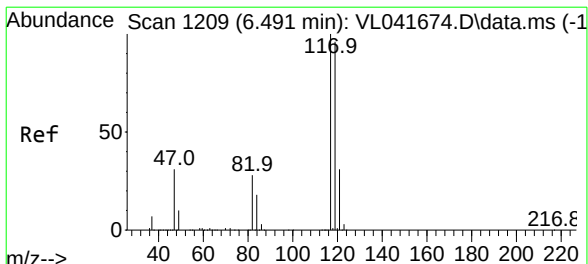
#34  
 2-Butanone  
 Concen: 9.606 ppbv  
 RT: 4.780 min Scan# 677  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15



Tgt Ion: 43 Resp: 1559421

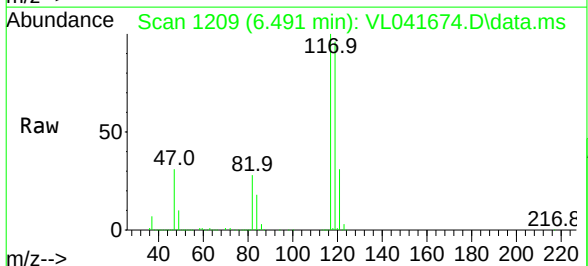
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 21.7  | 17.4  | 26.0  |





#35  
Carbon Tetrachloride  
Concen: 10.670 ppbv  
RT: 6.491 min Scan# 1209  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

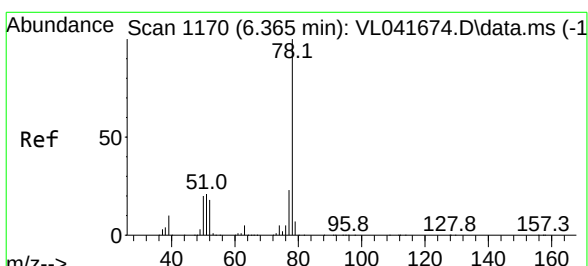
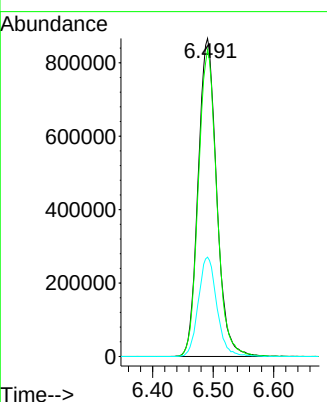
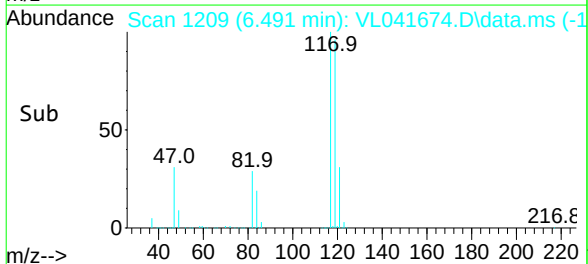
Instrument : MSVOA\_L  
ClientSampleId : VSTDICCC010



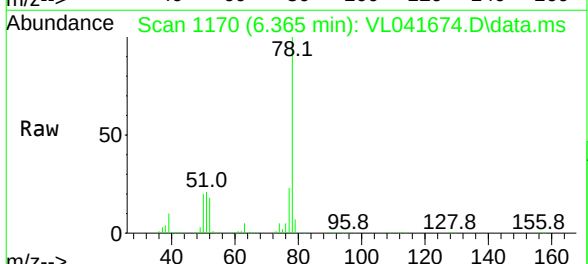
Tgt Ion: 117 Resp: 1838964

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 96.5  | 77.2  | 115.8 |
| 121 | 31.2  | 25.0  | 37.4  |

Manual Integrations  
**APPROVED**  
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

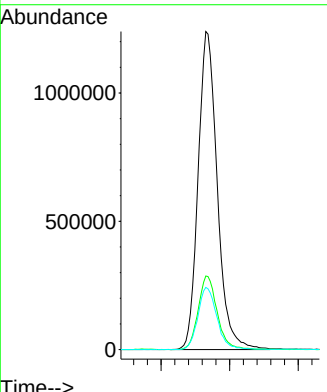
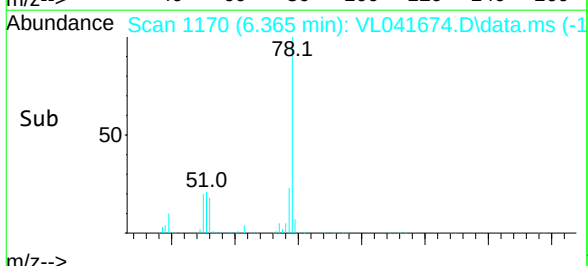


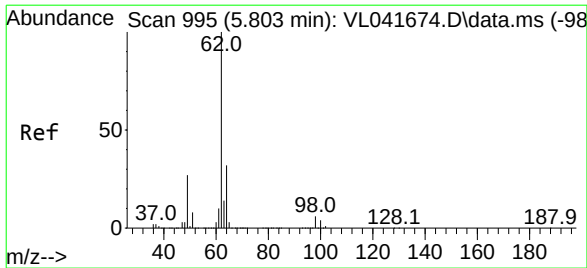
#36  
Benzene  
Concen: 9.955 ppbv  
RT: 6.365 min Scan# 1170  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15



Tgt Ion: 78 Resp: 2404772

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 23.1  | 18.5  | 27.7  |
| 50  | 19.5  | 15.6  | 23.4  |





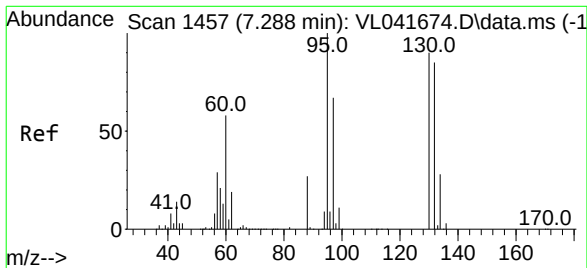
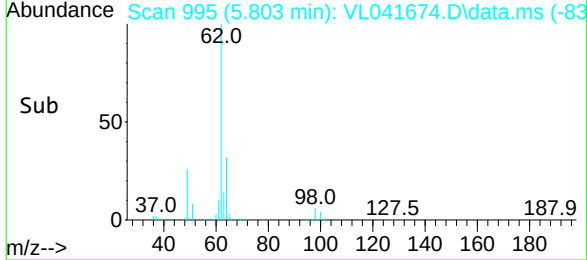
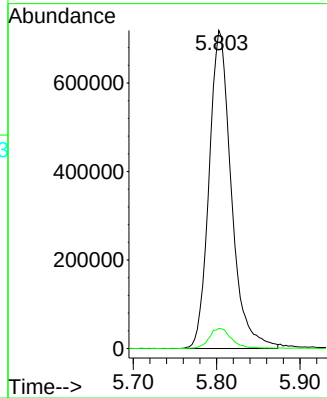
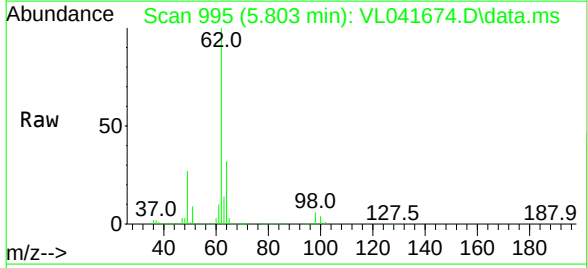
#37  
1,2-Dichloroethane  
Concen: 9.768 ppbv  
RT: 5.803 min Scan# 995  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 62 Resp: 1331275  
Ion Ratio Lower Upper  
62 100  
98 6.5 5.2 7.8

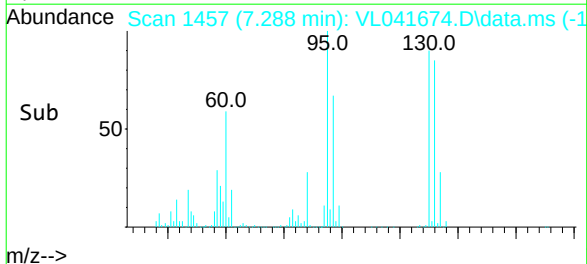
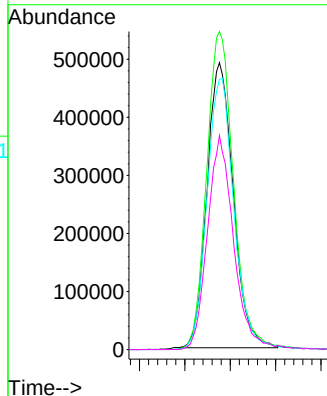
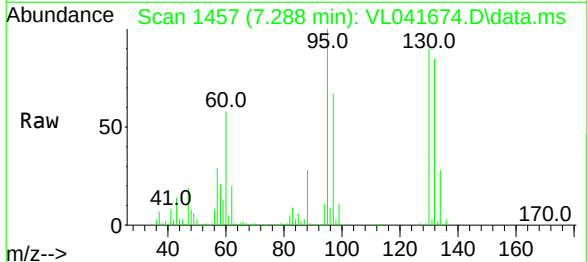
Manual Integrations  
APPROVED

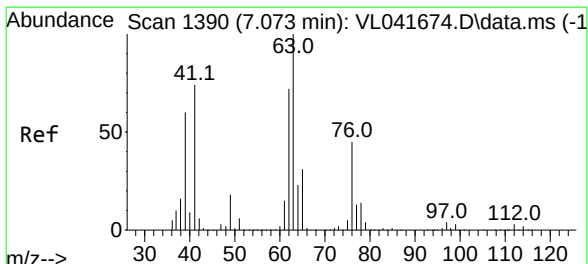
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#38  
Trichloroethene  
Concen: 10.594 ppbv  
RT: 7.288 min Scan# 1457  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

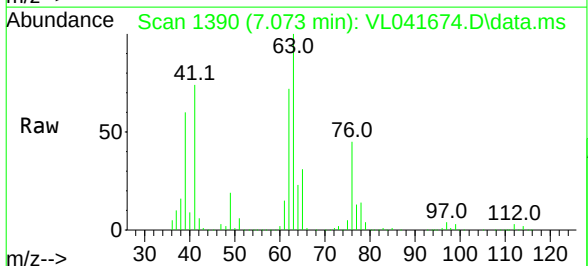
Tgt Ion:130 Resp: 986911  
Ion Ratio Lower Upper  
130 100  
95 111.4 89.1 133.7  
132 94.6 75.7 113.5  
97 75.0 60.0 90.0





#39  
1,2-Dichloropropane  
Concen: 9.711 ppbv  
RT: 7.073 min Scan# 1390  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

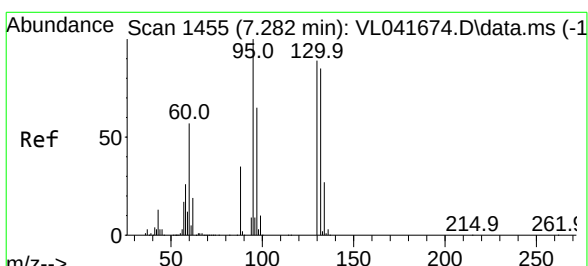
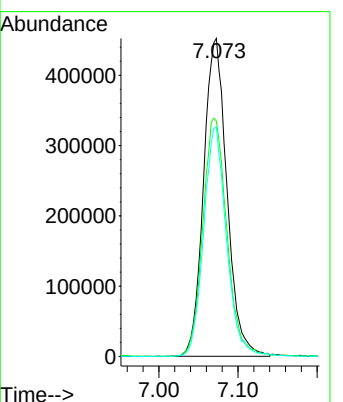
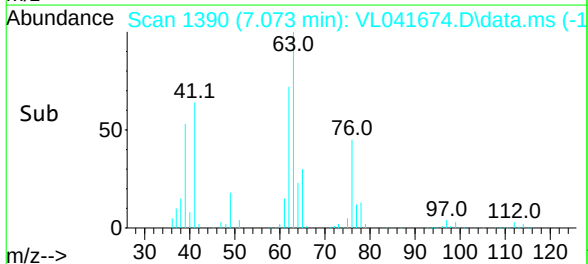
Instrument : MSVOA\_L  
ClientSampleId : VSTDICCC010



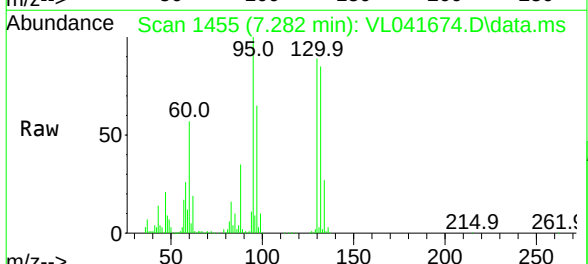
Tgt Ion: 63 Resp: 927055

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 41  | 73.9  | 59.1  | 88.7  |
| 62  | 72.1  | 57.7  | 86.5  |

Manual Integrations  
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Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

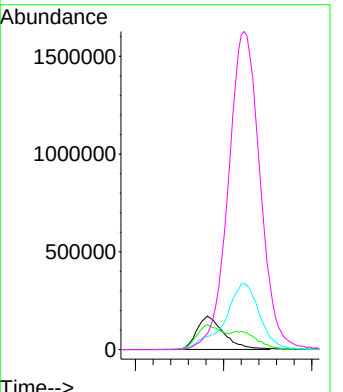
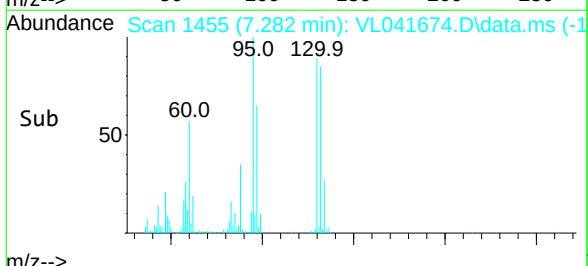


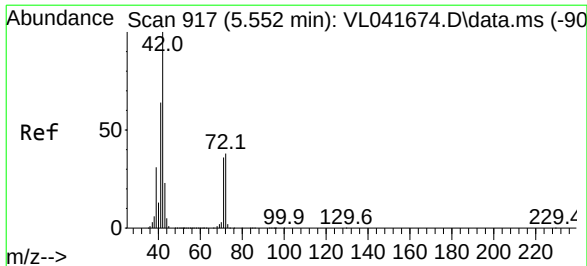
#40  
1,4-Dioxane  
Concen: 10.691 ppbv  
RT: 7.282 min Scan# 1455  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15



Tgt Ion: 88 Resp: 361524

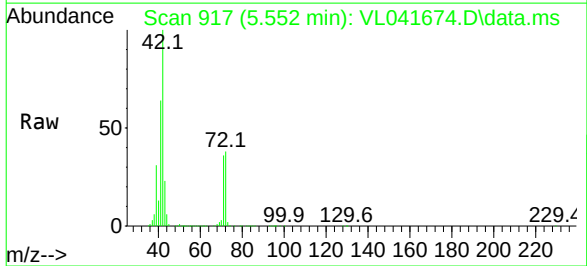
| Ion | Ratio  | Lower | Upper  |
|-----|--------|-------|--------|
| 88  | 100    |       |        |
| 58  | 126.8  | 101.4 | 152.2  |
| 43  | 260.0  | 208.0 | 312.0  |
| 57  | 1128.6 | 902.9 | 1354.3 |





#41  
Tetrahydrofuran  
Concen: 10.379 ppbv  
RT: 5.552 min Scan# 917  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

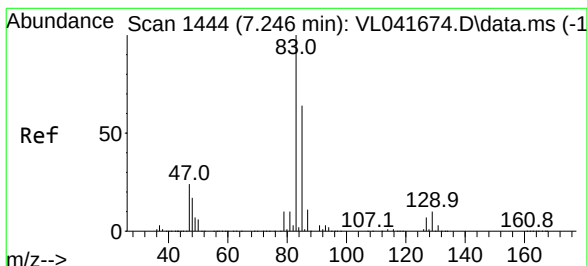
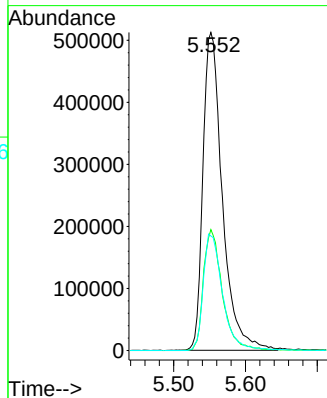
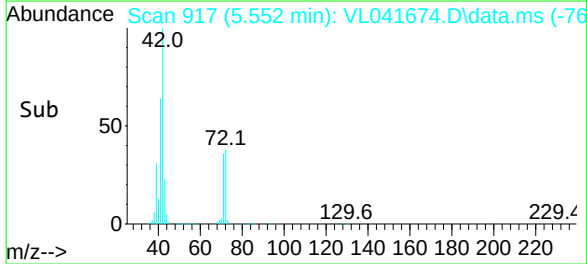
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



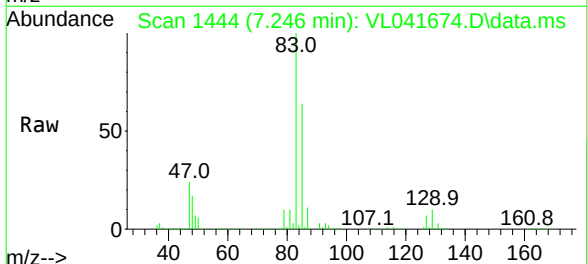
Tgt Ion: 42 Resp: 961227  
Ion Ratio Lower Upper  
42 100  
72 37.2 29.8 44.6  
71 36.8 29.4 44.2

Manual Integrations  
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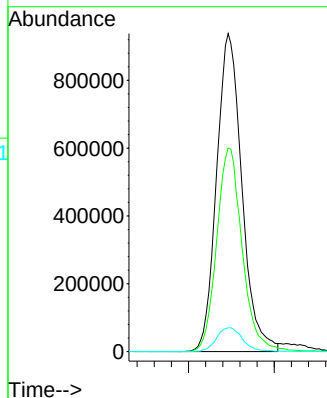
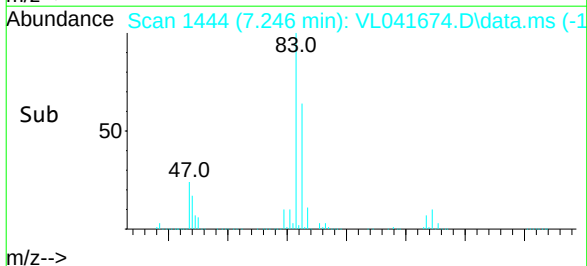
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

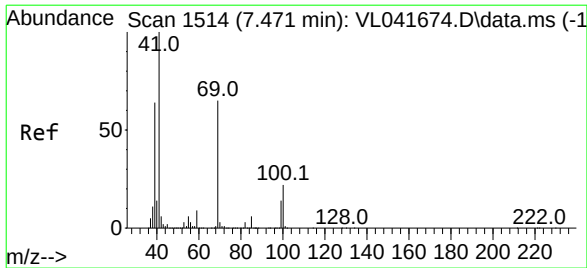


#42  
Bromodichloromethane  
Concen: 10.153 ppbv  
RT: 7.246 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15



Tgt Ion: 83 Resp: 1922752  
Ion Ratio Lower Upper  
83 100  
85 64.0 51.2 76.8  
127 7.5 6.0 9.0





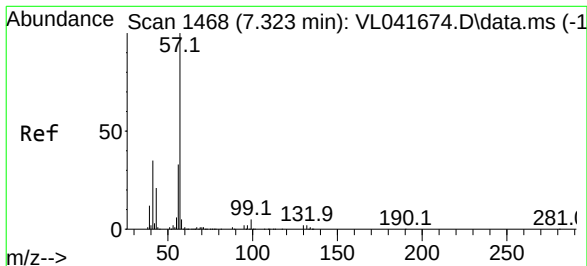
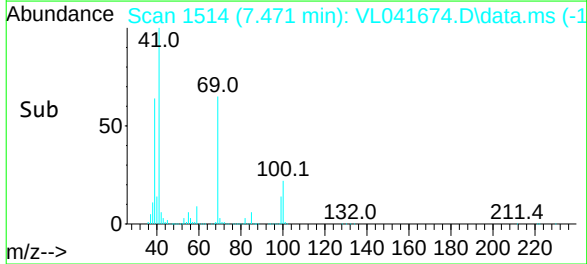
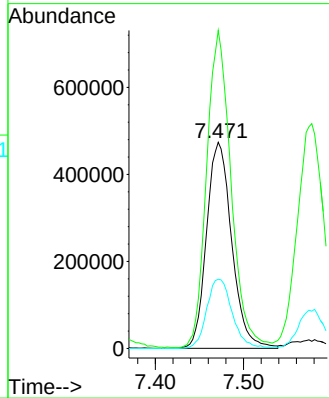
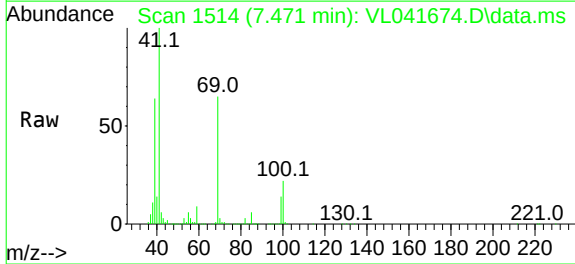
#43  
Methyl Methacrylate  
Concen: 11.071 ppbv  
RT: 7.471 min Scan# 1514  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 69 Resp: 939057  
Ion Ratio Lower Upper  
69 100  
41 149.7 119.8 179.6  
100 34.1 27.3 40.9

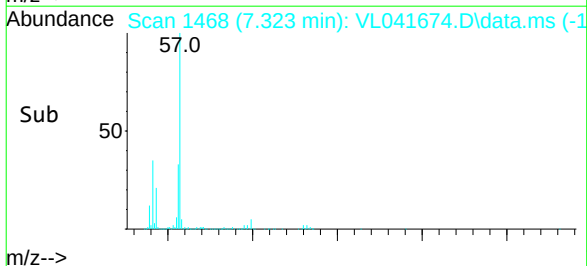
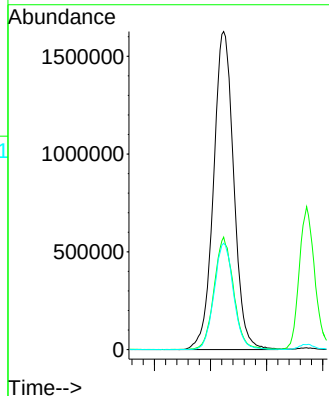
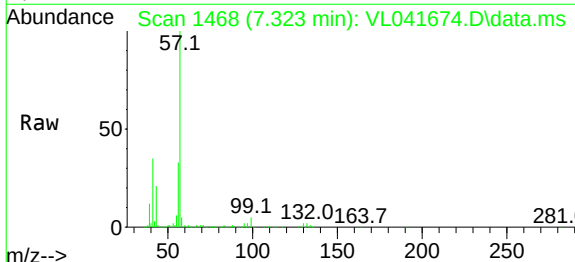
Manual Integrations  
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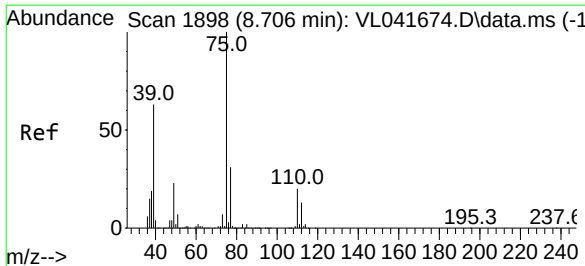
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#44  
2,2,4-Trimethylpentane  
Concen: 9.968 ppbv  
RT: 7.323 min Scan# 1468  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

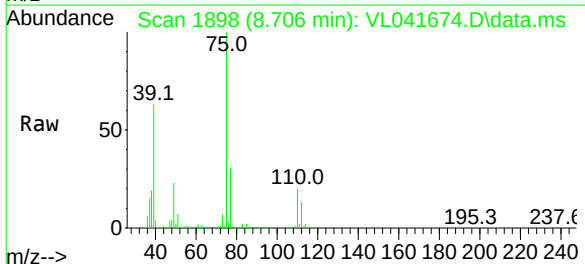
Tgt Ion: 57 Resp: 4079001  
Ion Ratio Lower Upper  
57 100  
41 33.8 27.0 40.6  
56 32.2 25.8 38.6





#45  
t-1,3-Dichloropropene  
Concen: 12.141 ppbv  
RT: 8.706 min Scan# 1898  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

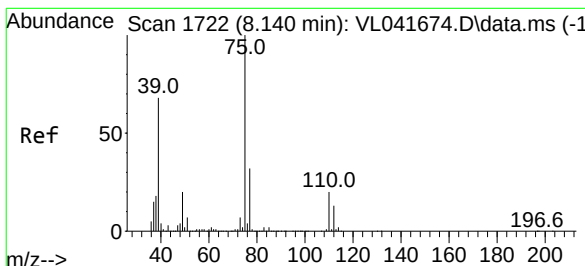
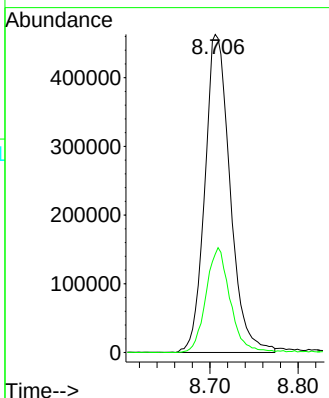
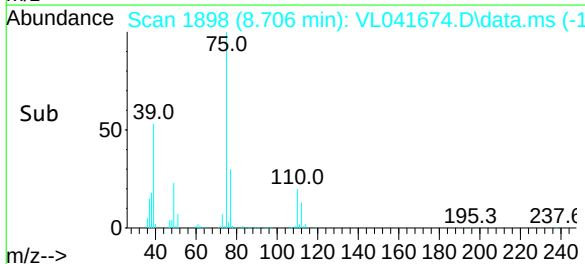
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



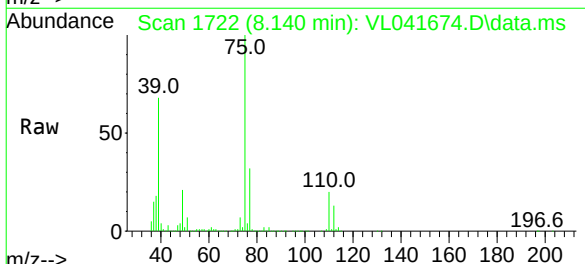
Tgt Ion: 75 Resp: 920537  
Ion Ratio Lower Upper  
75 100  
77 30.9 24.7 37.1

Manual Integrations  
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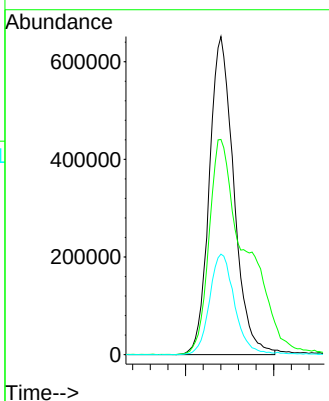
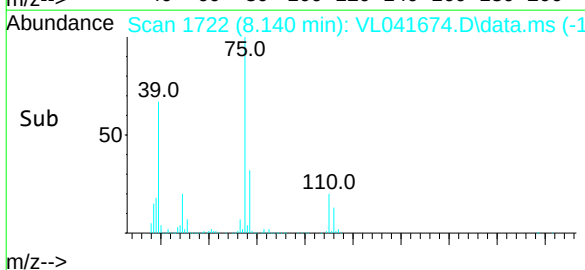
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



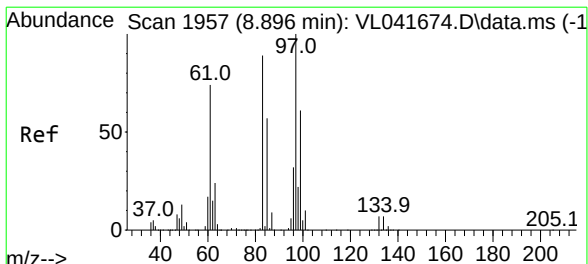
#46  
cis-1,3-Dichloropropene  
Concen: 11.408 ppbv  
RT: 8.140 min Scan# 1722  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15



Tgt Ion: 75 Resp: 1257121  
Ion Ratio Lower Upper  
75 100  
39 67.6 54.1 81.1  
77 31.6 25.3 37.9

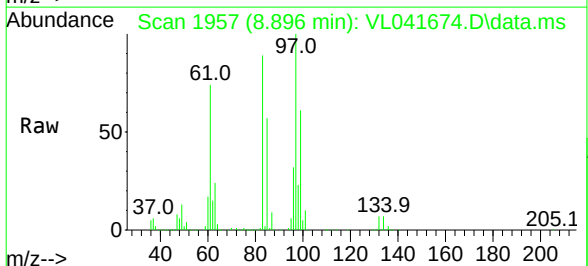






#47  
 1,1,2-Trichloroethane  
 Concen: 9.746 ppbv  
 RT: 8.896 min Scan# 1957  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

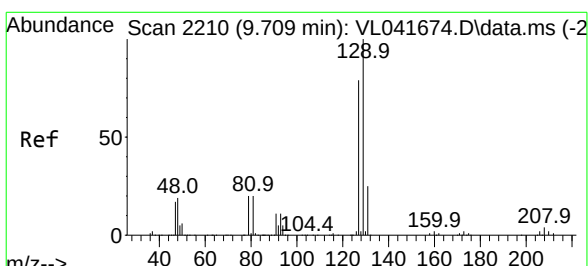
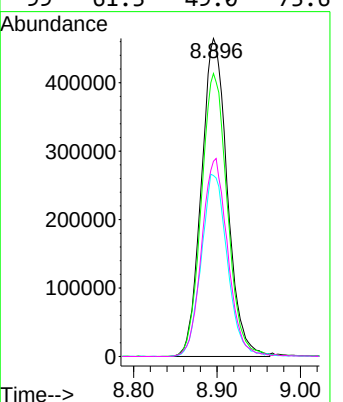
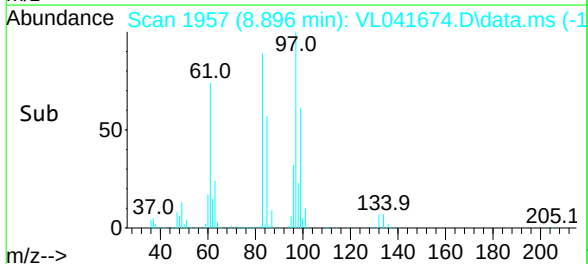
Instrument : MSVOA\_L  
 ClientSampleId : VSTDICCC010



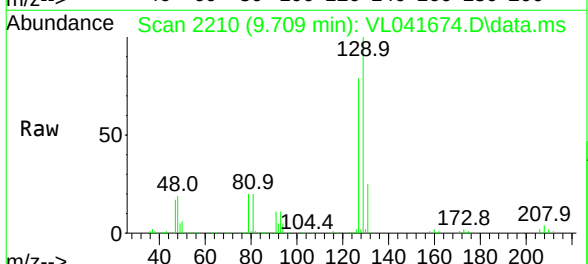
Tgt Ion: 97 Resp: 1003150

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 88.8  | 71.0  | 106.6 |
| 85  | 56.8  | 45.4  | 68.2  |
| 99  | 61.3  | 49.0  | 73.6  |

Manual Integrations  
**APPROVED**  
 Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

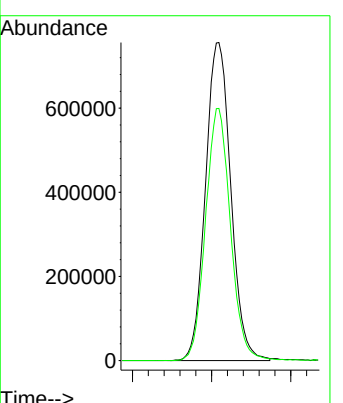
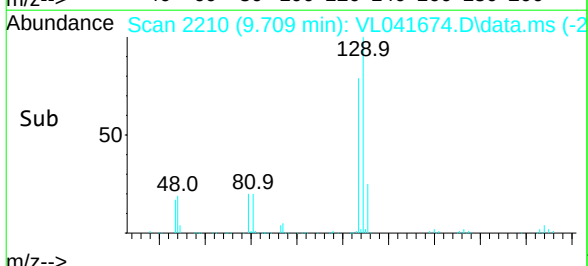


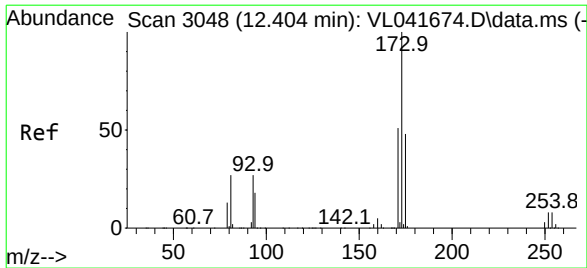
#48  
 Dibromochloromethane  
 Concen: 10.690 ppbv  
 RT: 9.709 min Scan# 2210  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15



Tgt Ion:129 Resp: 1679053

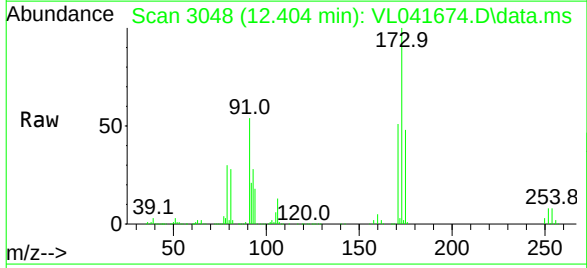
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.1  | 39.1  | 117.2 |





#49  
Bromoform  
Concen: 11.174 ppbv  
RT: 12.404 min Scan# 3048  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

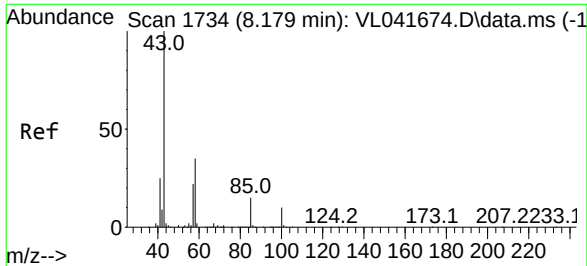
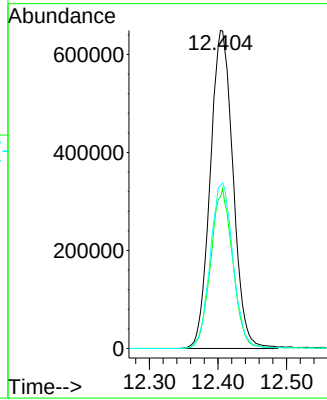
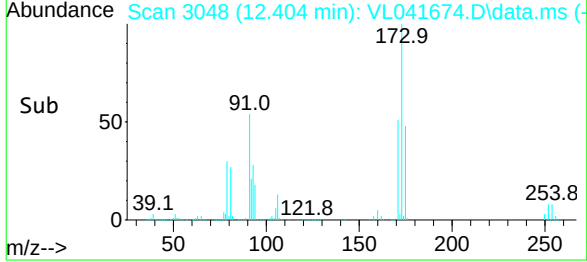
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



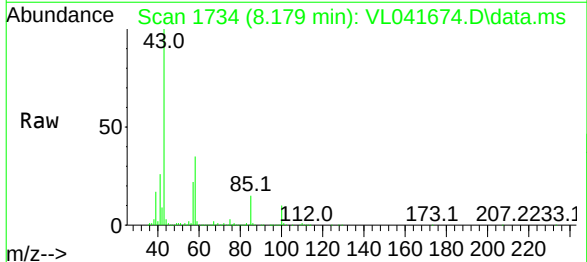
Tgt Ion: 173 Resp: 1497222  
Ion Ratio Lower Upper  
173 100  
175 49.0 39.2 58.8  
171 52.1 41.7 62.5

Manual Integrations  
APPROVED

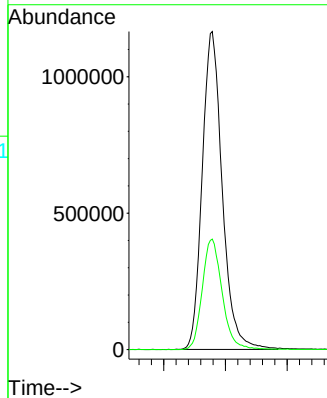
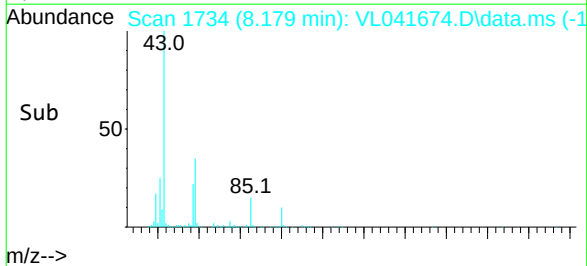
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

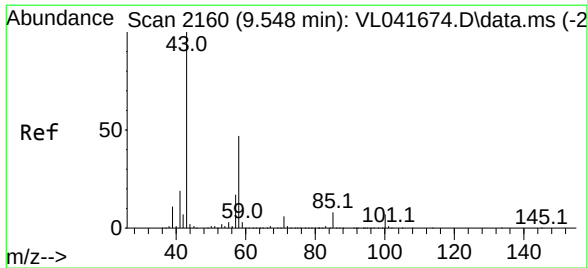


#50  
4-Methyl-2-Pentanone  
Concen: 10.544 ppbv  
RT: 8.179 min Scan# 1734  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15



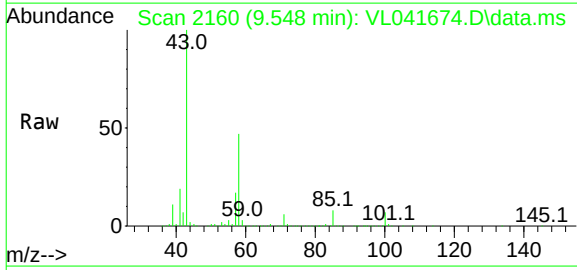
Tgt Ion: 43 Resp: 2628657  
Ion Ratio Lower Upper  
43 100  
58 34.6 27.7 41.5





#51  
2-Hexanone  
Concen: 11.281 ppbv  
RT: 9.548 min Scan# 2160  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

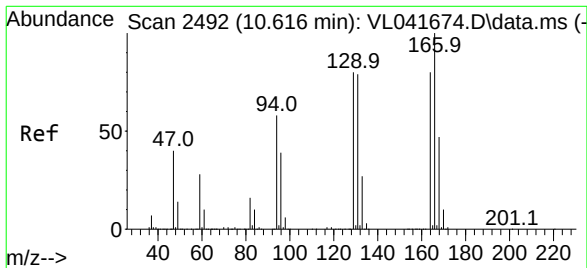
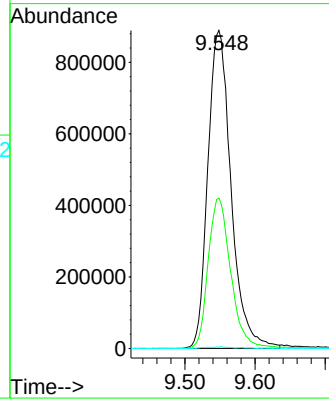
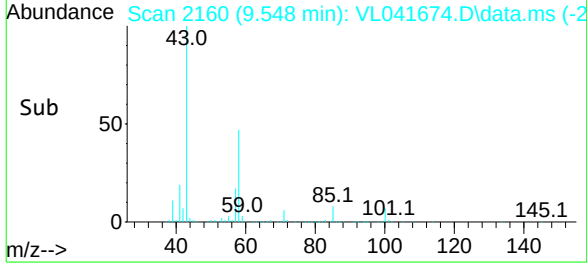
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



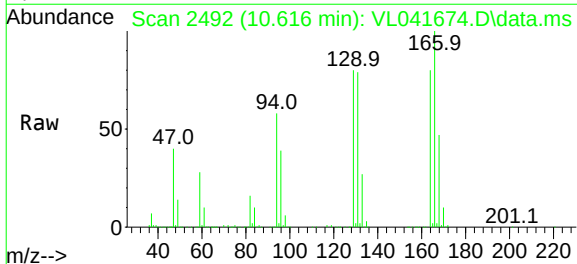
Tgt Ion: 43 Resp: 2043690  
Ion Ratio Lower Upper  
43 100  
58 46.3 37.0 55.6  
98 0.7 0.6 0.8

Manual Integrations  
APPROVED

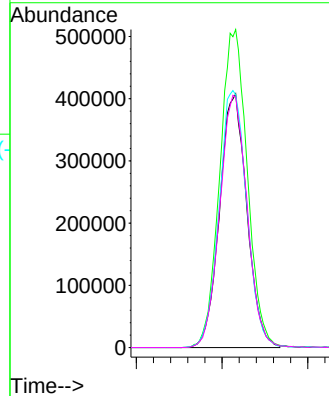
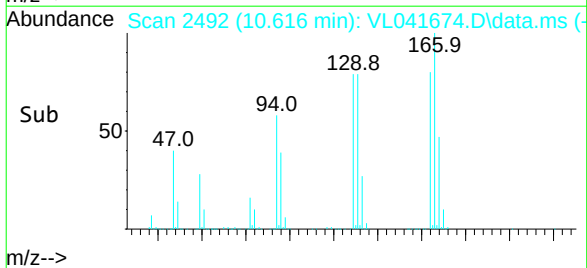
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

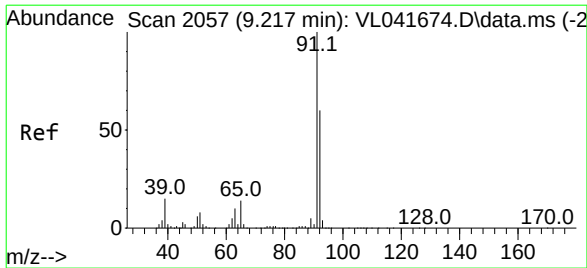


#52  
Tetrachloroethene  
Concen: 10.893 ppbv  
RT: 10.616 min Scan# 2492  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15



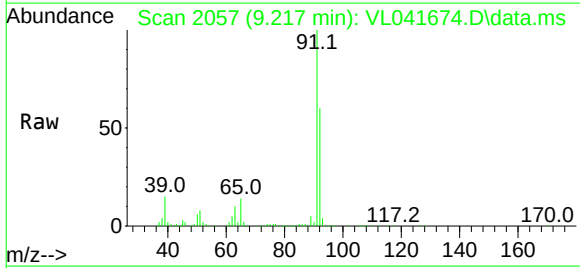
Tgt Ion:164 Resp: 899580  
Ion Ratio Lower Upper  
164 100  
166 125.3 100.2 150.4  
129 99.6 79.7 119.5  
131 98.7 79.0 118.4





#53  
Toluene  
Concen: 10.973 ppbv  
RT: 9.217 min Scan# 2057  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

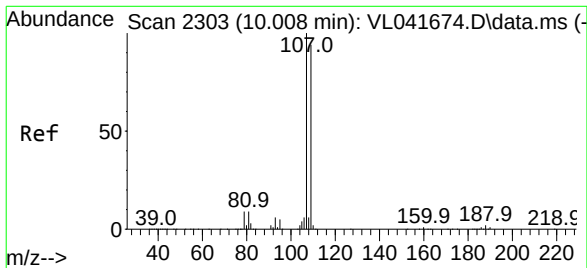
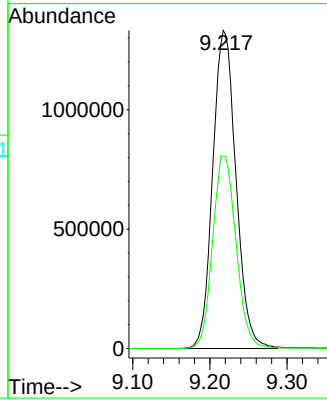
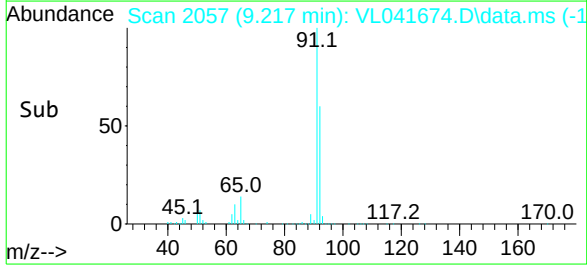
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



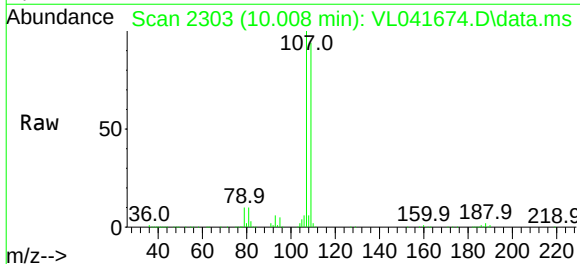
Tgt Ion: 91 Resp: 2787596  
Ion Ratio Lower Upper  
91 100  
92 61.2 49.0 73.4

Manual Integrations  
APPROVED

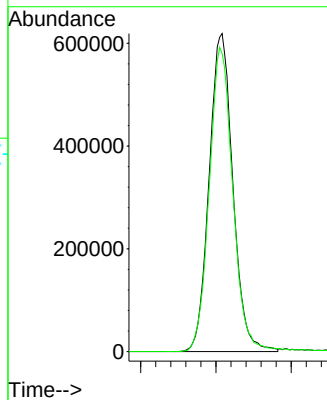
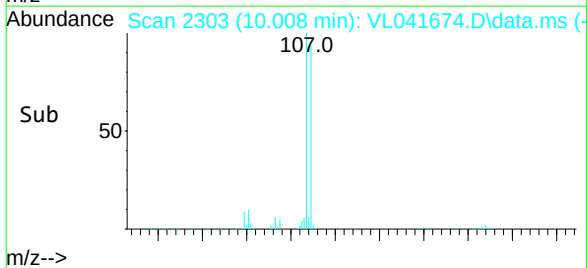
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

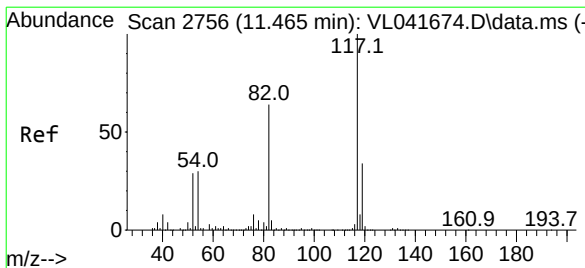


#54  
1,2-Dibromoethane  
Concen: 11.262 ppbv  
RT: 10.008 min Scan# 2303  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15



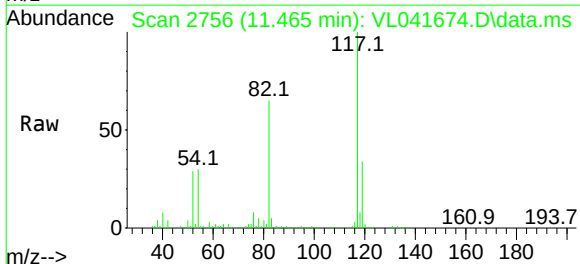
Tgt Ion:107 Resp: 1353490  
Ion Ratio Lower Upper  
107 100  
109 93.6 74.9 112.3





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 11.465 min Scan# 2756  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

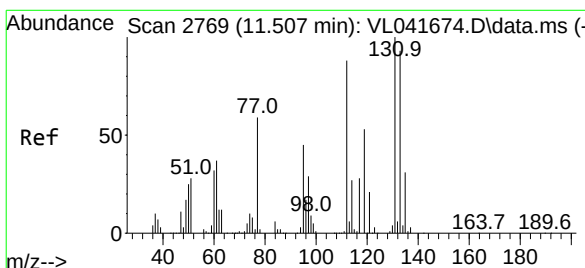
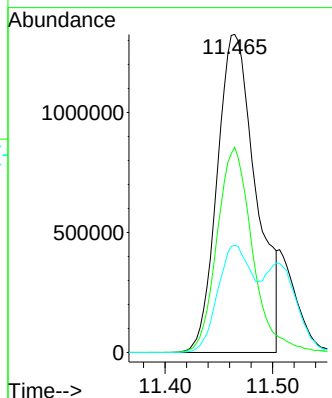
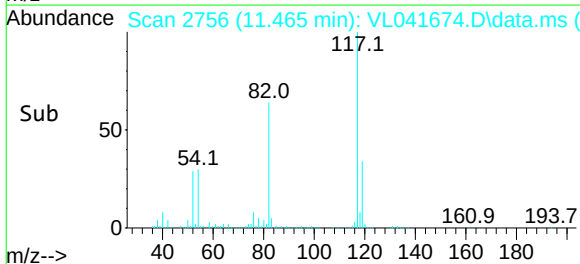
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion:117 Resp: 3326206  
Ion Ratio Lower Upper  
117 100  
82 59.2 49.8 74.8  
119 28.8 24.2 36.4

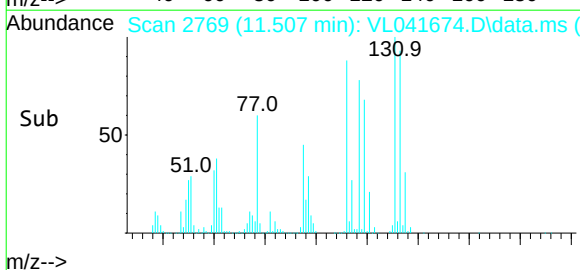
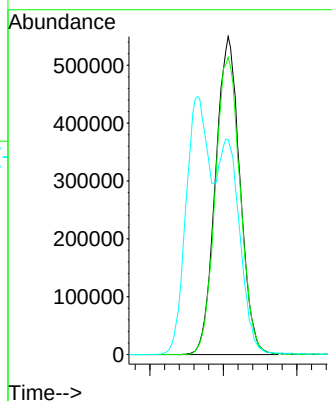
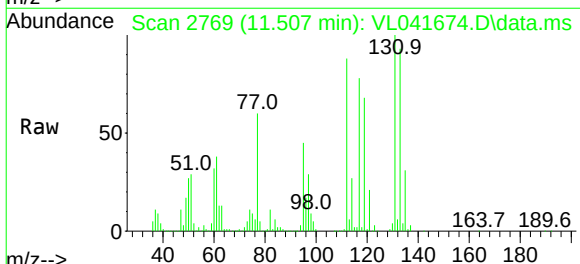
Manual Integrations  
APPROVED

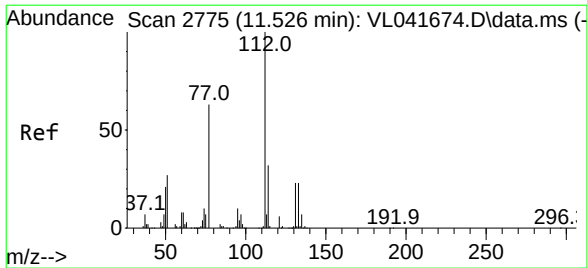
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.142 ppbv  
RT: 11.507 min Scan# 2769  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

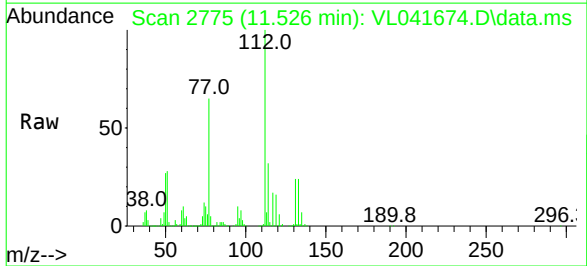
Tgt Ion:131 Resp: 1266326  
Ion Ratio Lower Upper  
131 100  
133 95.6 76.5 114.7  
119 62.3 49.8 74.8





#57  
Chlorobenzene  
Concen: 9.024 ppbv  
RT: 11.526 min Scan# 2775  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

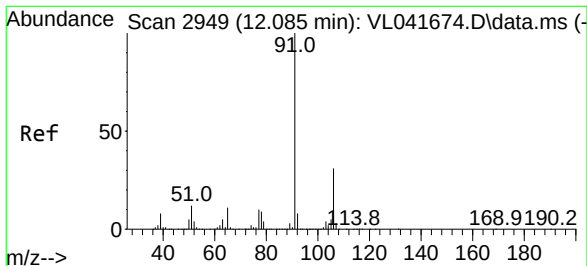
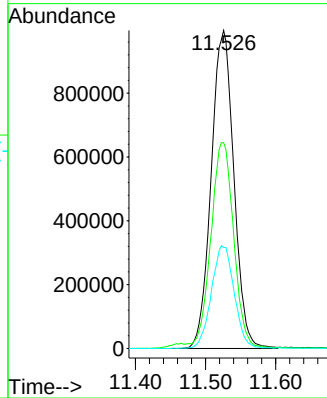
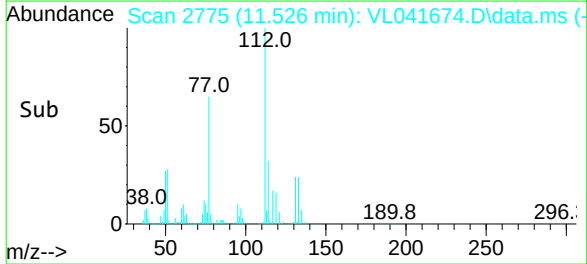
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion:112 Resp: 2237328  
Ion Ratio Lower Upper  
112 100  
77 64.3 51.4 77.2  
114 31.6 28.4 34.8

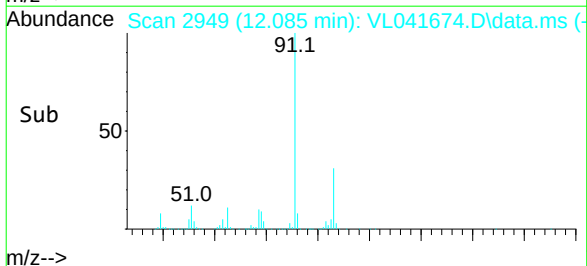
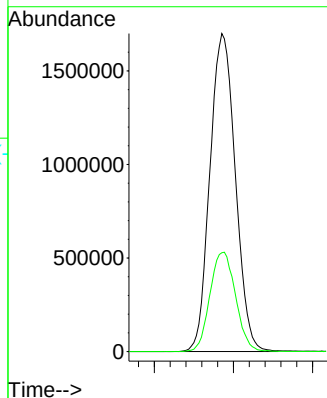
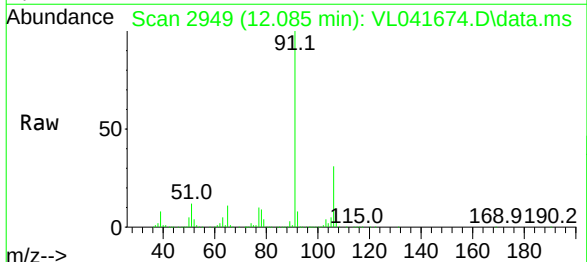
Manual Integrations  
APPROVED

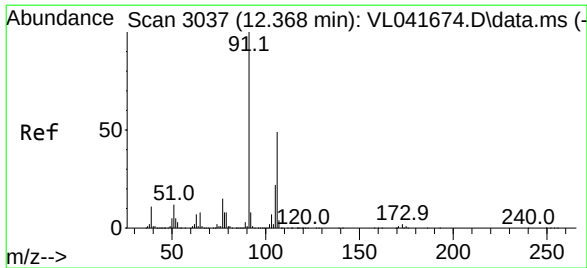
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#58  
Ethyl Benzene  
Concen: 10.301 ppbv  
RT: 12.085 min Scan# 2949  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 91 Resp: 3795372  
Ion Ratio Lower Upper  
91 100  
106 31.1 24.9 37.3





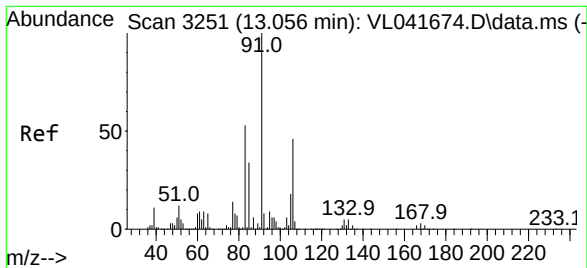
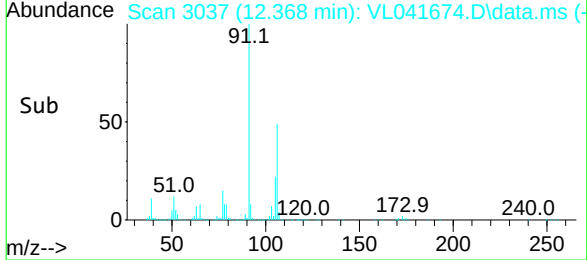
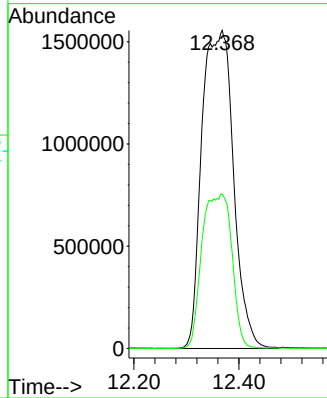
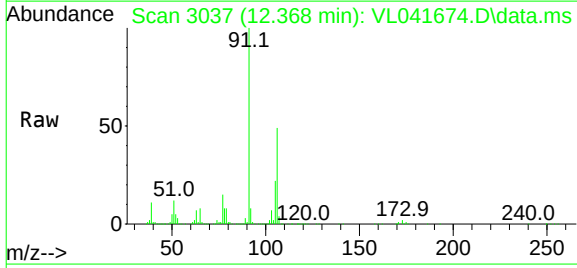
#59  
m/p-Xylene  
Concen: 19.671 ppbv m  
RT: 12.368 min Scan# 3037  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 91 Resp: 6483858  
Ion Ratio Lower Upper  
91 100  
106 46.1 36.9 55.3

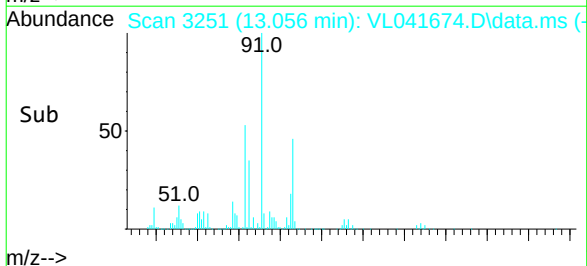
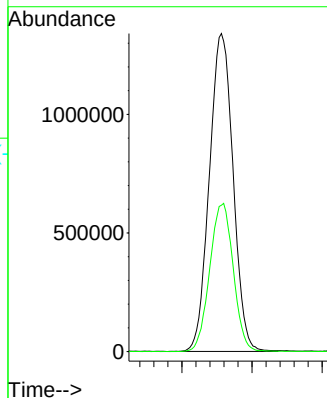
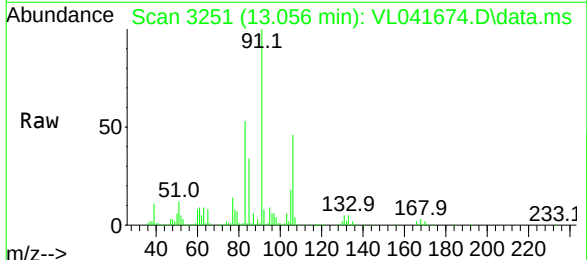
Manual Integrations  
APPROVED

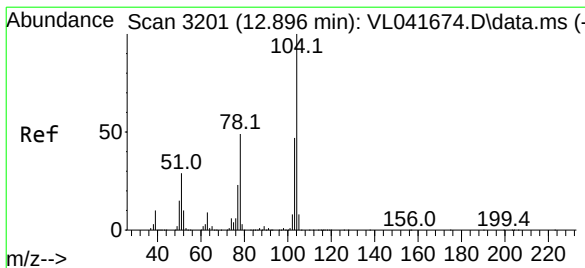
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#60  
o-Xylene  
Concen: 10.005 ppbv  
RT: 13.056 min Scan# 3251  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 91 Resp: 3148609  
Ion Ratio Lower Upper  
91 100  
106 46.4 23.2 69.6





#61

Styrene

Concen: 11.670 ppbv

RT: 12.896 min Scan# 3201

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion:104 Resp: 1515741

Ion Ratio Lower Upper

104 100

78 49.8 39.8 59.8

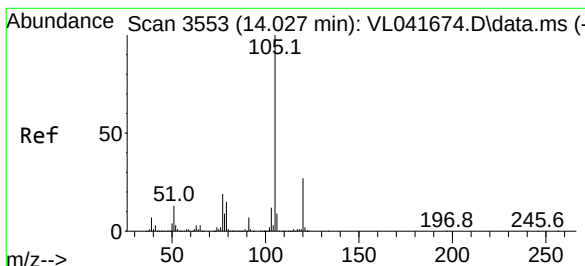
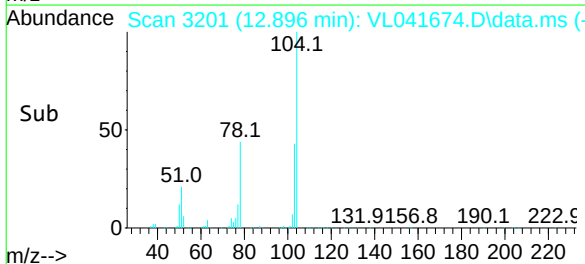
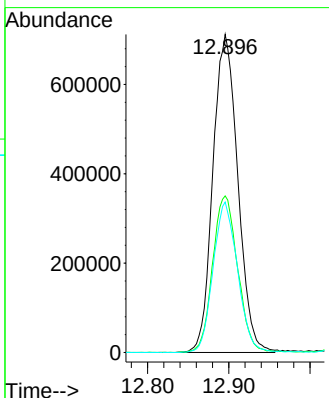
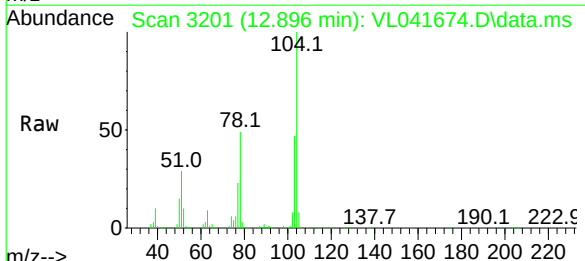
103 46.7 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#62

Isopropylbenzene

Concen: 9.566 ppbv

RT: 14.027 min Scan# 3553

Delta R.T. 0.000 min

Lab File: VL041674.D

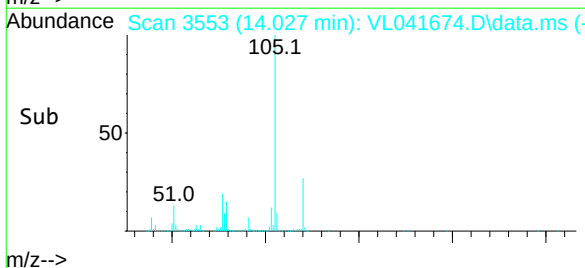
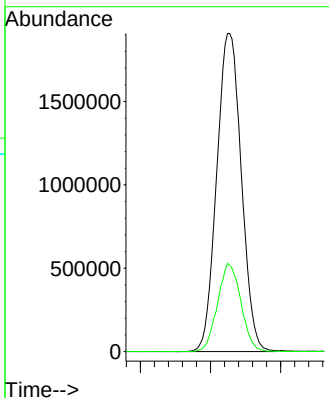
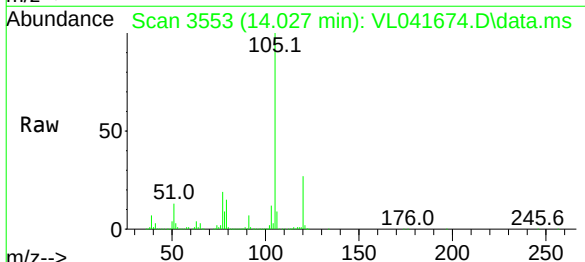
Acq: 7 Nov 2024 10:15

Tgt Ion:105 Resp: 4647017

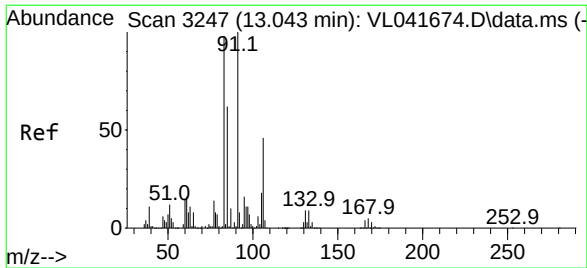
Ion Ratio Lower Upper

105 100

120 26.4 21.1 31.7

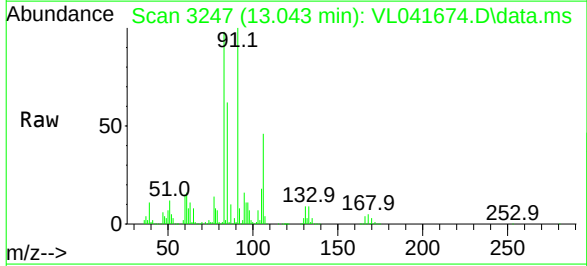






#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.578 ppbv  
RT: 13.043 min Scan# 3247  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

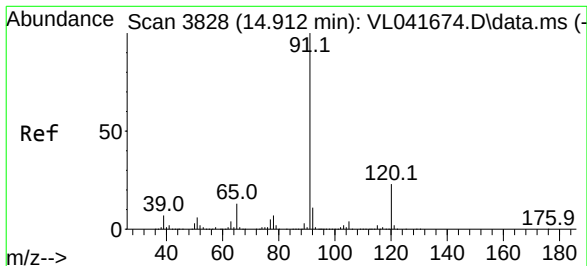
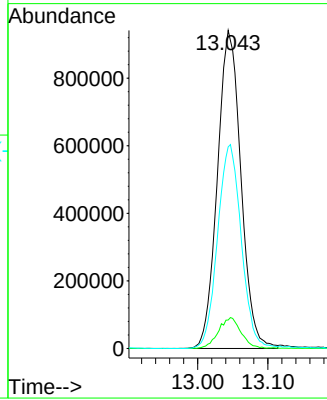
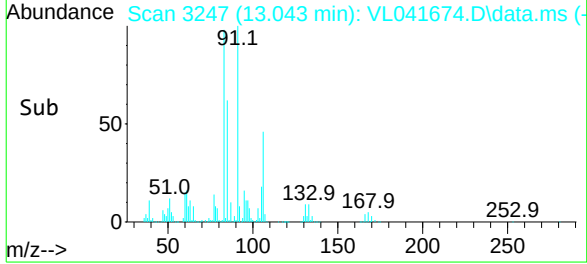
Instrument : MSVOA\_L  
ClientSampleId : VSTDICCC010



Tgt Ion: 83 Resp: 2194609  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 65.3 32.6 98.0

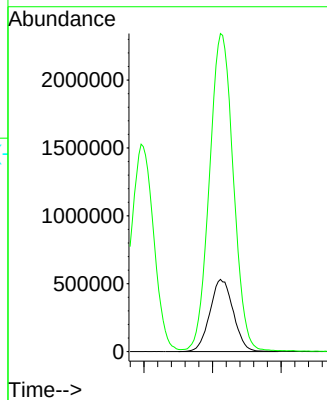
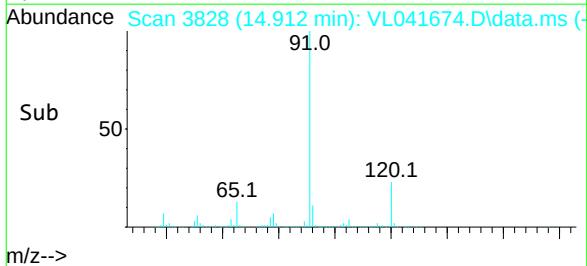
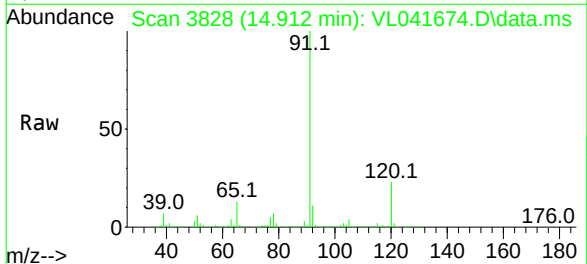
Manual Integrations  
APPROVED

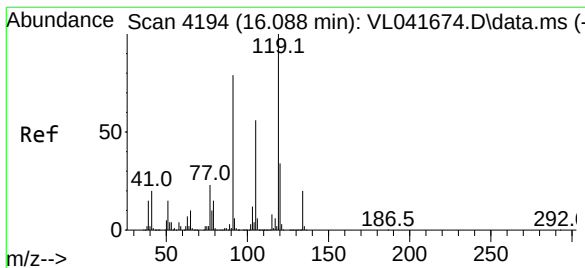
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#64  
n-propylbenzene  
Concen: 9.895 ppbv  
RT: 14.912 min Scan# 3828  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion:120 Resp: 1256955  
Ion Ratio Lower Upper  
120 100  
91 453.0 362.4 543.6





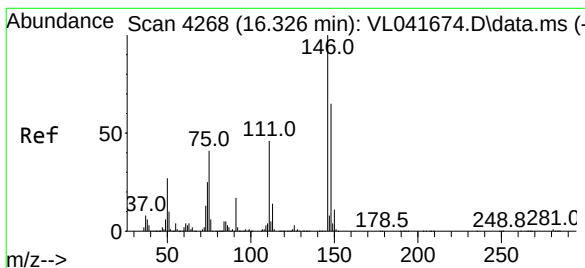
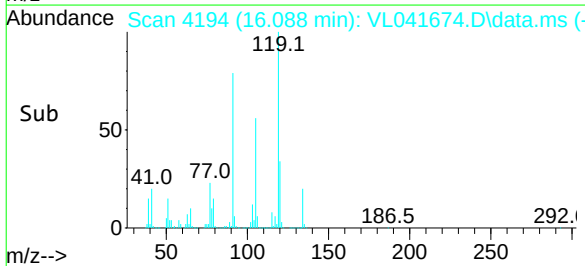
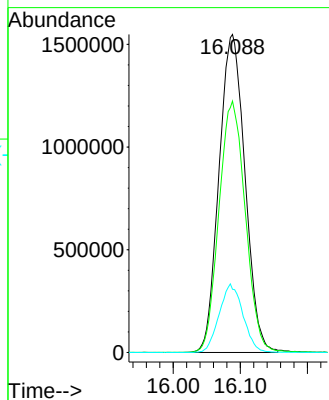
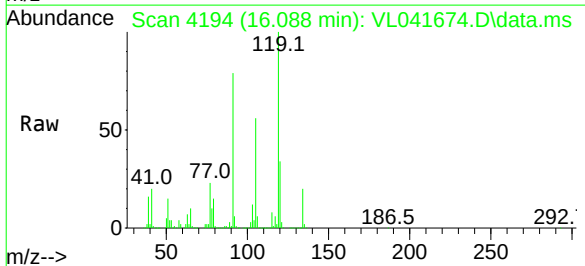
#65  
tert-Butylbenzene  
Concen: 9.533 ppbv  
RT: 16.088 min Scan# 4194  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion:119 Resp: 4162243  
Ion Ratio Lower Upper  
119 100  
91 80.4 64.3 96.5  
134 19.8 15.8 23.8

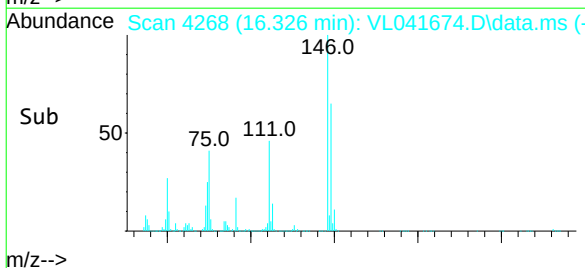
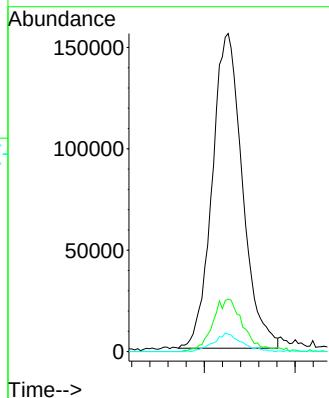
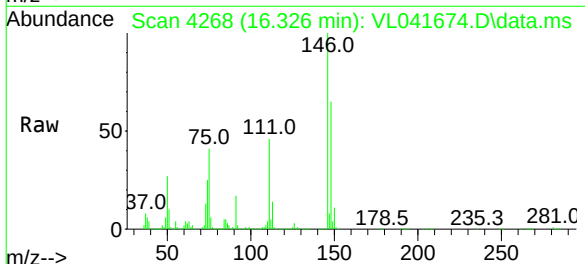
Manual Integrations  
APPROVED

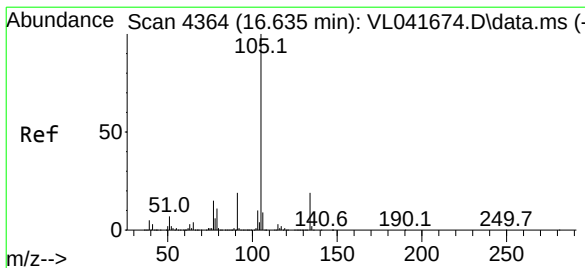
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#66  
Benzyl Chloride  
Concen: 11.442 ppbv  
RT: 16.326 min Scan# 4268  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

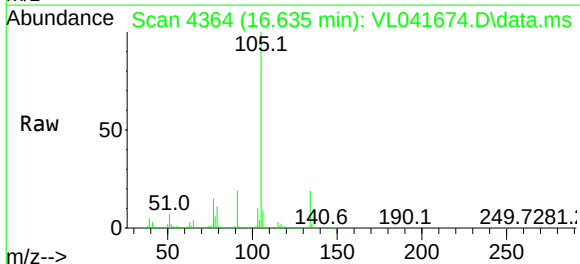
Tgt Ion: 91 Resp: 359794  
Ion Ratio Lower Upper  
91 100  
126 17.2 13.8 20.6  
128 5.4 4.3 6.5





#67  
sec-Butylbenzene  
Concen: 9.519 ppbv  
RT: 16.635 min Scan# 4364  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

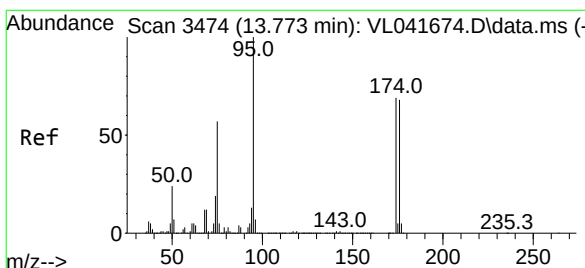
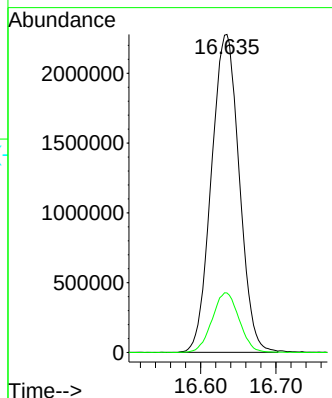
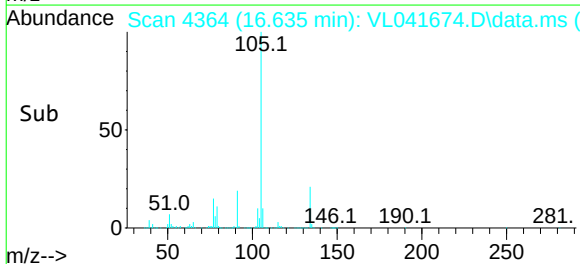
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 105 Resp: 5857608  
Ion Ratio Lower Upper  
105 100  
134 18.3 14.6 22.0

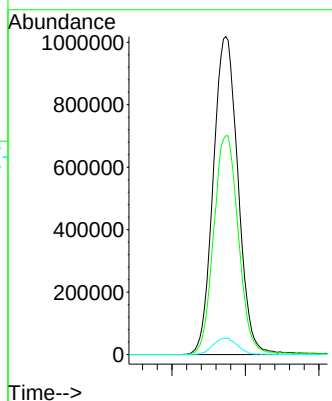
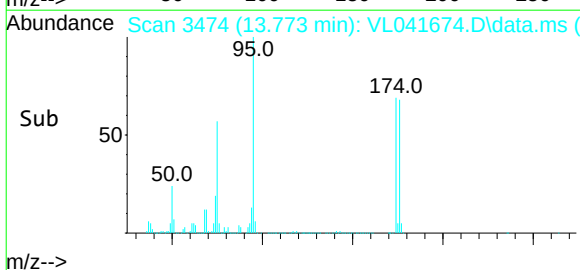
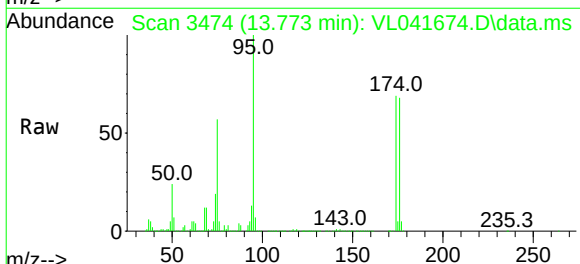
Manual Integrations  
APPROVED

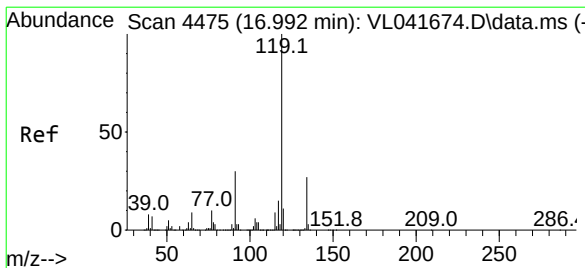
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.677 ppbv  
RT: 13.773 min Scan# 3474  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

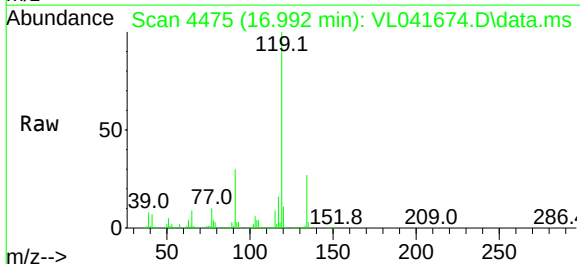
Tgt Ion: 95 Resp: 2380541  
Ion Ratio Lower Upper  
95 100  
174 69.5 55.6 83.4  
175 5.2 4.2 6.2





#69  
p-Isopropyltoluene  
Concen: 9.887 ppbv  
RT: 16.992 min Scan# 4475  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

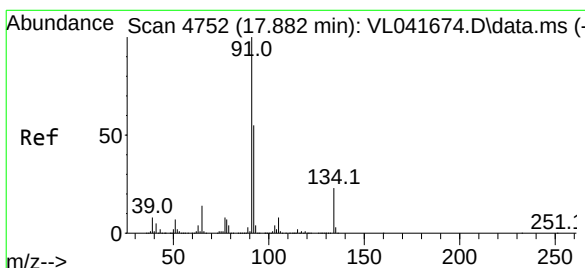
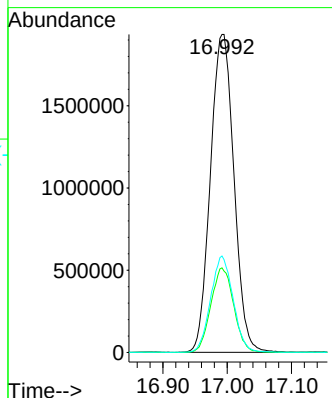
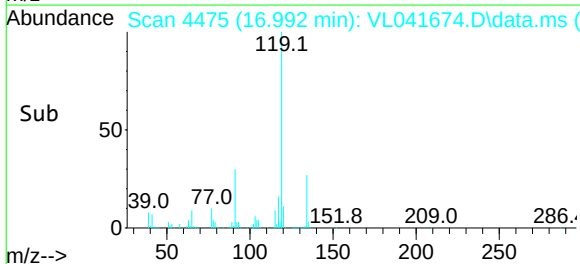
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



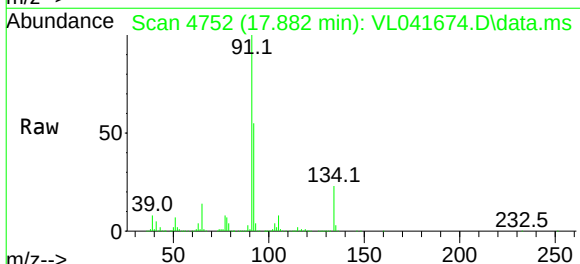
Tgt Ion: 119 Resp: 4920309  
Ion Ratio Lower Upper  
119 100  
134 26.0 20.8 31.2  
91 29.0 23.2 34.8

Manual Integrations  
APPROVED

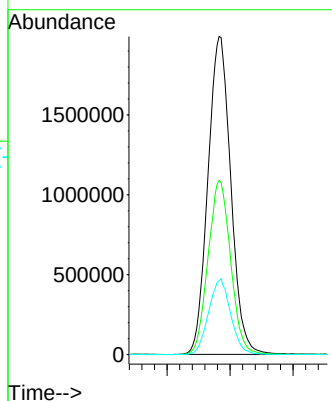
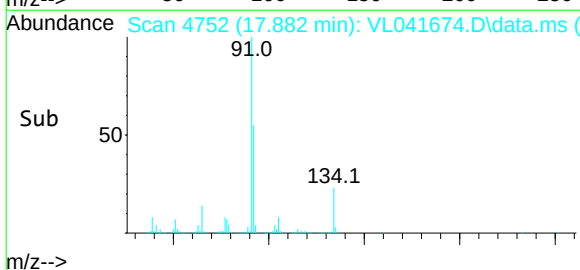
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

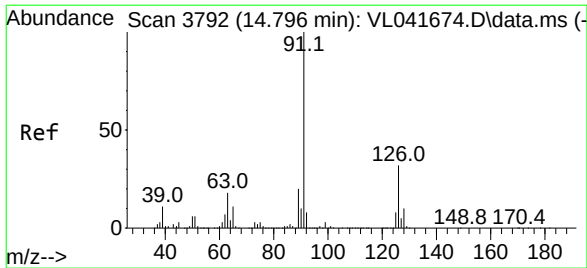


#70  
n-Butylbenzene  
Concen: 9.843 ppbv  
RT: 17.882 min Scan# 4752  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15



Tgt Ion: 91 Resp: 5021145  
Ion Ratio Lower Upper  
91 100  
92 54.1 43.3 64.9  
134 23.0 18.4 27.6





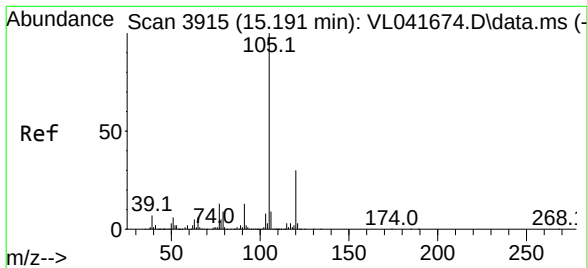
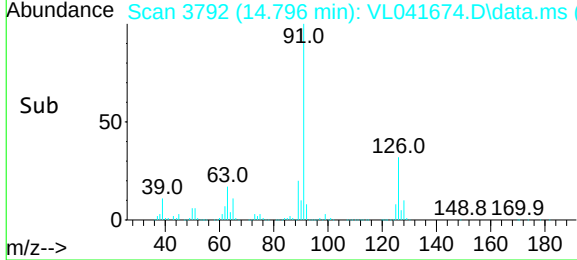
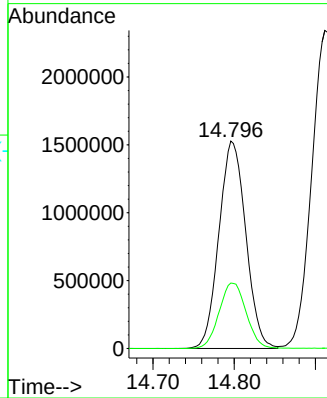
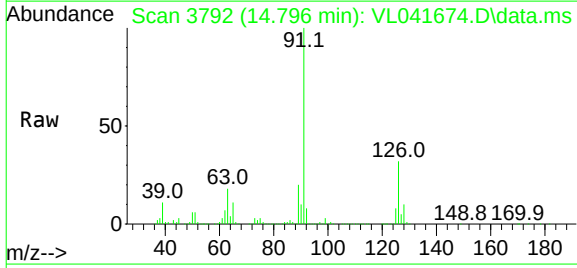
#71  
2-Chlorotoluene  
Concen: 9.986 ppbv  
RT: 14.796 min Scan# 3792  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 91 Resp: 3508288  
Ion Ratio Lower Upper  
91 100  
126 31.9 12.8 51.0

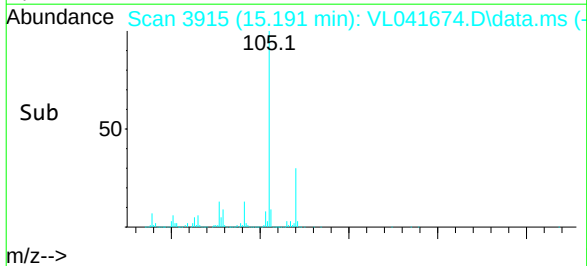
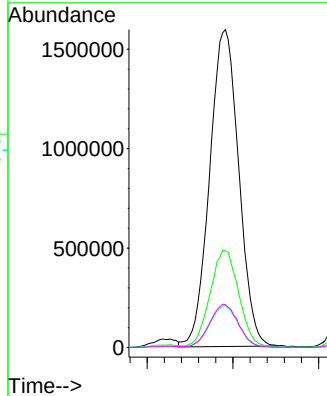
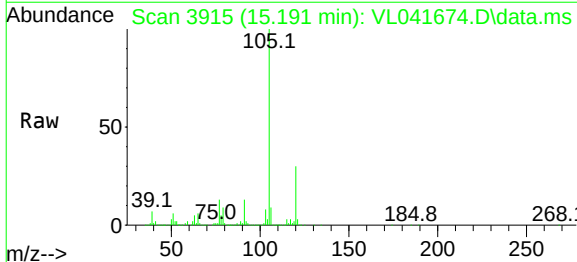
Manual Integrations  
APPROVED

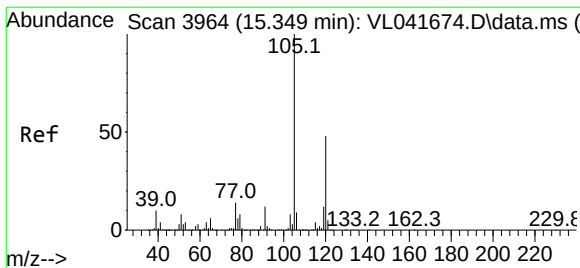
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#72  
4-Ethyltoluene  
Concen: 10.297 ppbv  
RT: 15.191 min Scan# 3915  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion:105 Resp: 3763123  
Ion Ratio Lower Upper  
105 100  
120 31.2 25.0 37.4  
91 13.2 10.6 15.8  
77 13.9 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.042 ppbv

RT: 15.349 min Scan# 3964

Delta R.T. 0.000 min

Lab File: VL041674.D

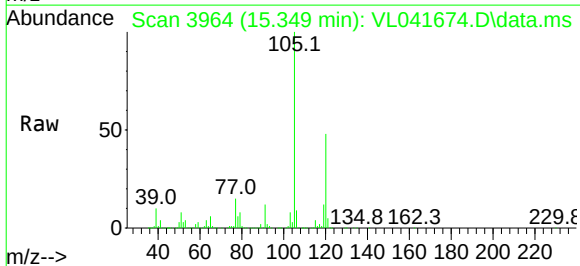
Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010



Tgt Ion:105 Resp: 3217635

Ion Ratio Lower Upper

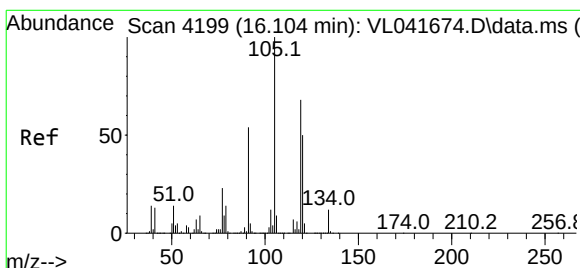
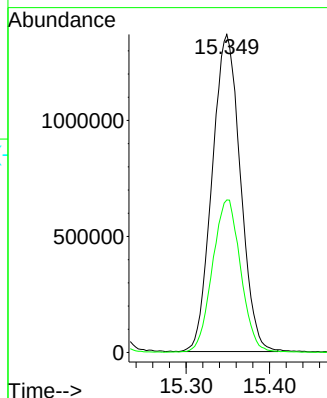
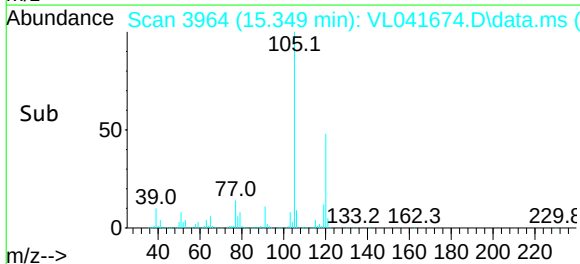
105 100

120 48.0 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#74

1,2,4-Trimethylbenzene

Concen: 9.559 ppbv

RT: 16.104 min Scan# 4199

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Tgt Ion:105 Resp: 3563067

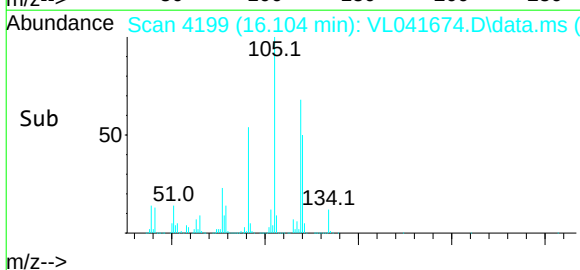
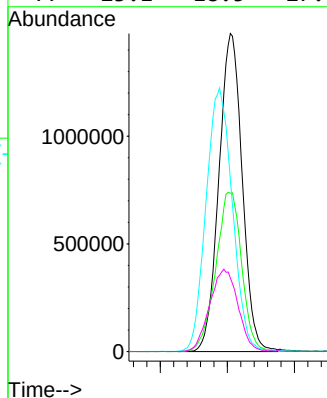
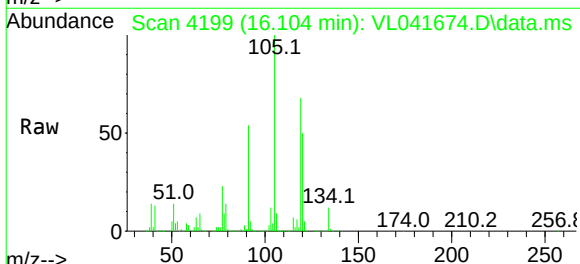
Ion Ratio Lower Upper

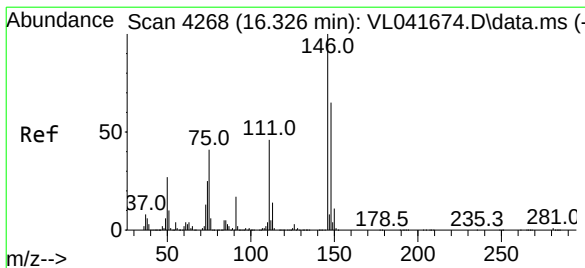
105 100

120 49.8 39.8 59.8

91 54.0 43.2 64.8

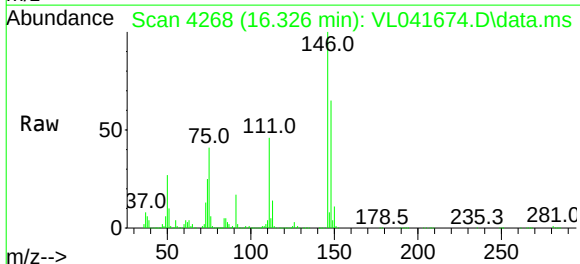
77 23.1 18.5 27.7





#75  
1,3-Dichlorobenzene  
Concen: 9.524 ppbv  
RT: 16.326 min Scan# 4268  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

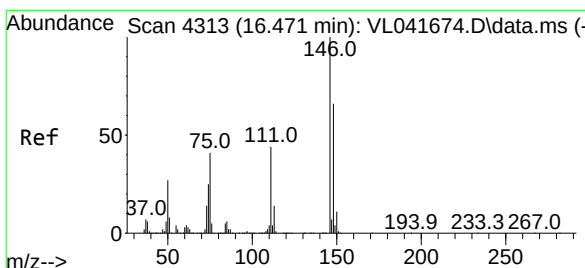
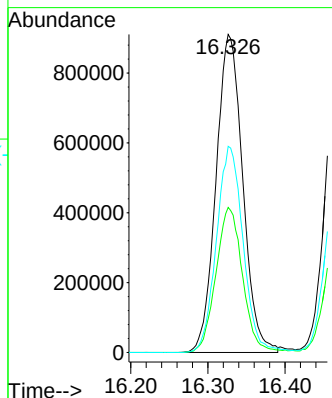
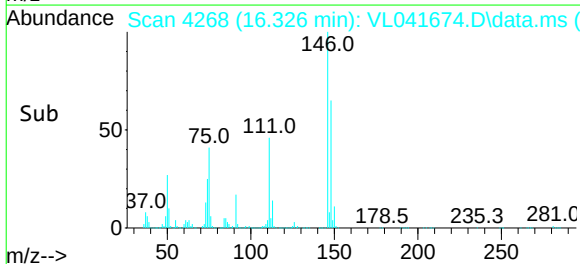
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion:146 Resp: 2192903  
Ion Ratio Lower Upper  
146 100  
111 45.5 22.8 68.3  
148 64.7 32.4 97.0

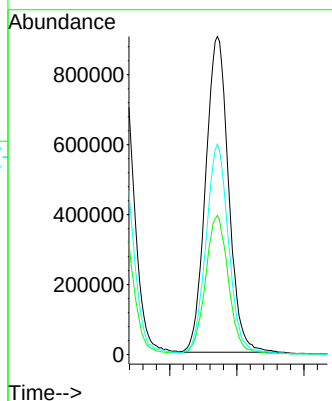
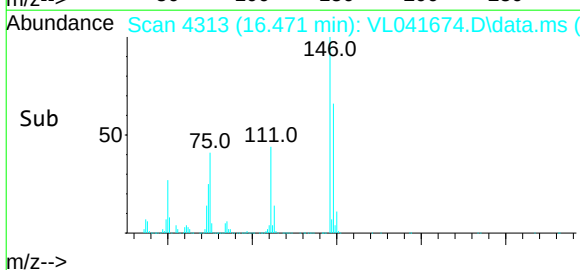
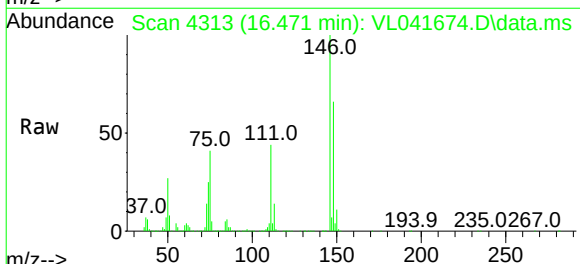
Manual Integrations  
APPROVED

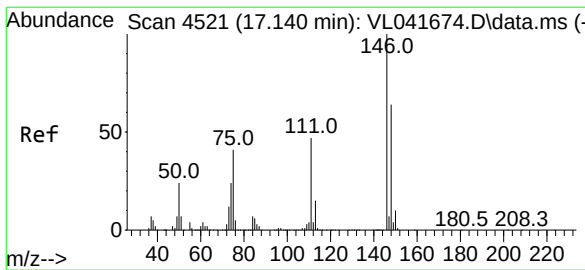
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#76  
1,4-Dichlorobenzene  
Concen: 9.479 ppbv  
RT: 16.471 min Scan# 4313  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

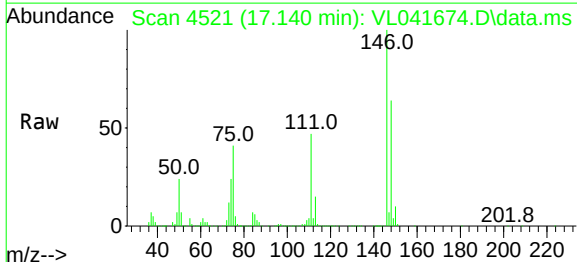
Tgt Ion:146 Resp: 2144446  
Ion Ratio Lower Upper  
146 100  
111 44.2 22.1 66.3  
148 66.5 33.3 99.8





#77  
1,2-Dichlorobenzene  
Concen: 9.353 ppbv  
RT: 17.140 min Scan# 4521  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

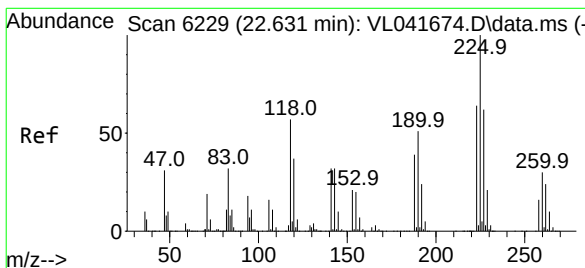
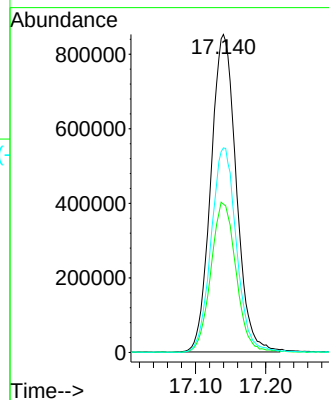
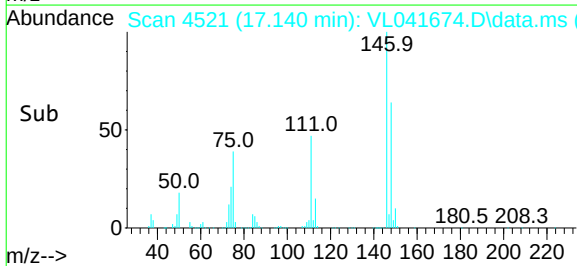
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



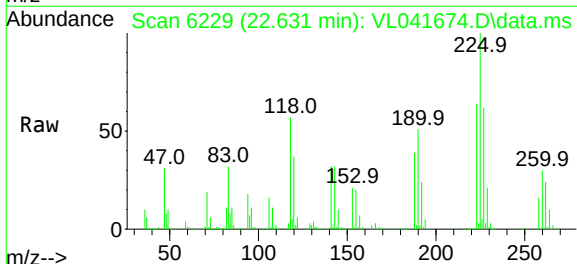
Tgt Ion:146 Resp: 2138612  
Ion Ratio Lower Upper  
146 100  
111 46.9 23.4 70.3  
148 64.3 32.1 96.5

Manual Integrations  
APPROVED

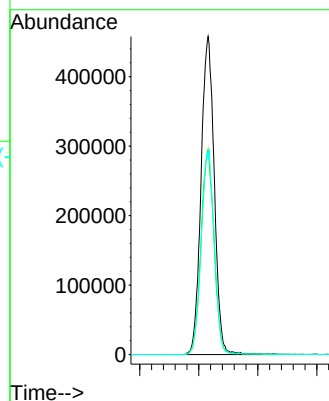
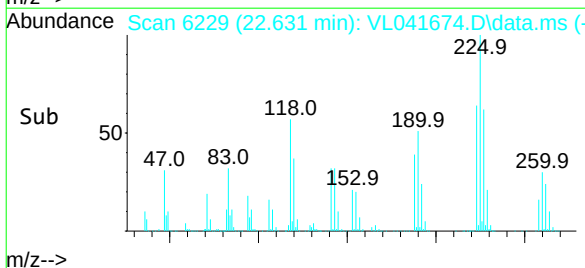
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



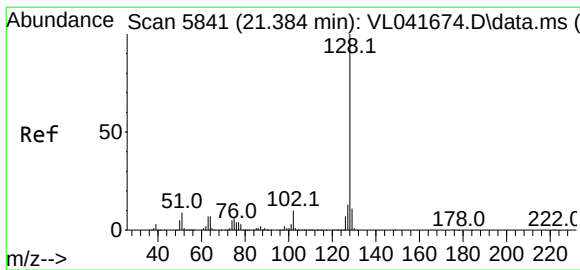
#78  
Hexachloro-1,3-Butadiene  
Concen: 7.865 ppbv m  
RT: 22.631 min Scan# 6229  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15



Tgt Ion:225 Resp: 1422723  
Ion Ratio Lower Upper  
225 100  
223 63.3 51.1 76.7  
227 63.5 51.3 76.9

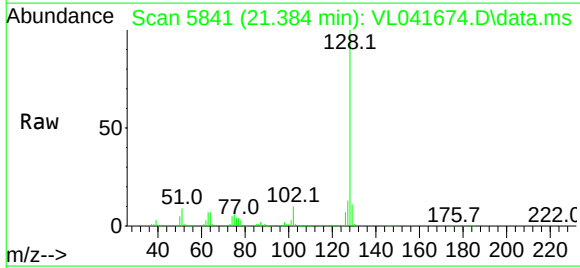






#79  
Naphthalene  
Concen: 12.072 ppbv  
RT: 21.384 min Scan# 5841  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

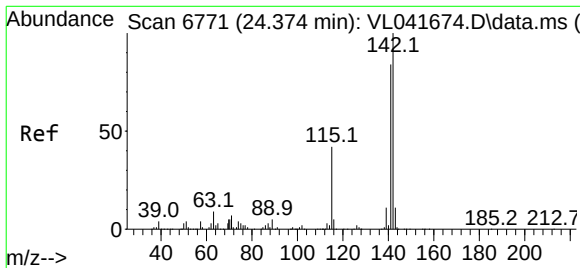
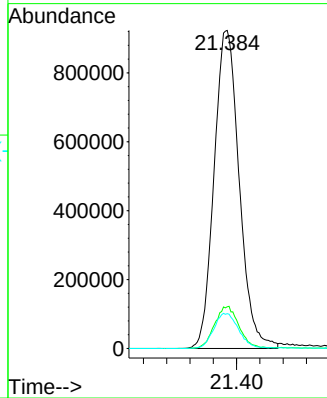
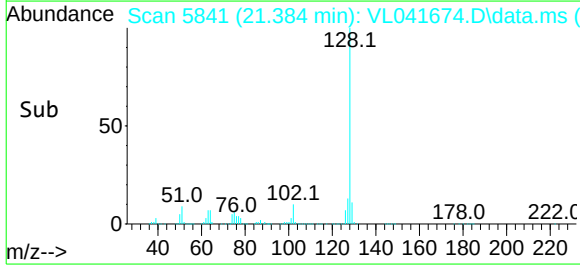
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



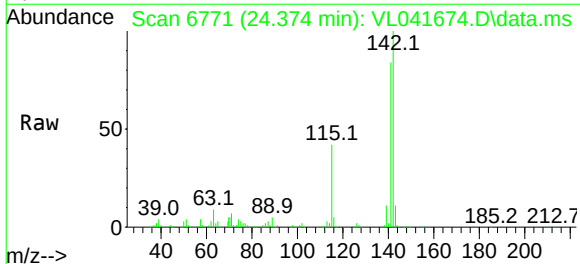
Tgt Ion:128 Resp: 2767333  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.5 15.7  
129 10.9 8.7 13.1

Manual Integrations  
APPROVED

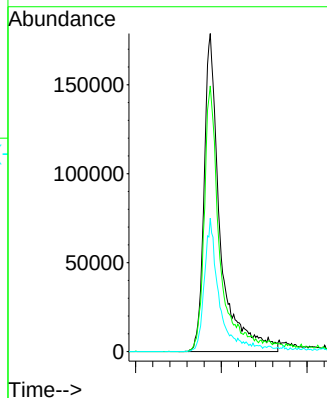
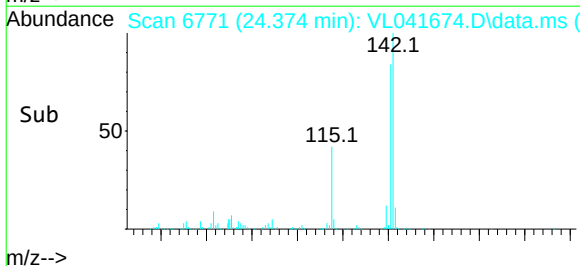
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

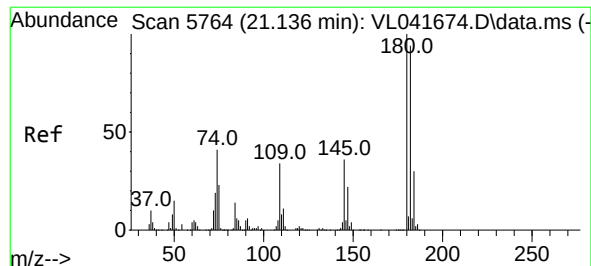


#80  
Naphthalene,2-methyl-  
Concen: 10.957 ppbv  
RT: 24.374 min Scan# 6771  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15



Tgt Ion:142 Resp: 466005  
Ion Ratio Lower Upper  
142 100  
141 85.1 68.1 102.1  
115 41.4 33.1 49.7





#81

1,2,4-Trichlorobenzene

Concen: 9.925 ppbv

RT: 21.136 min Scan# 57

Delta R.T. 0.000 min

Lab File: VL041674.D

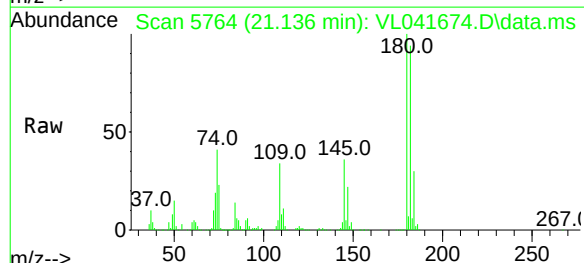
Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010



Tgt Ion:180 Resp: 1415249

Ion Ratio Lower Upper

180 100

182 97.7 78.2 117.2

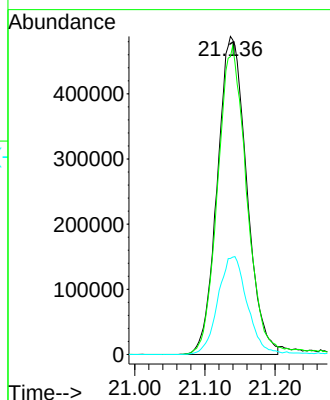
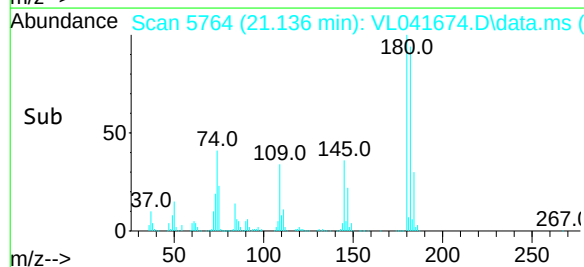
184 31.2 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041675.D  
 Acq On : 7 Nov 2024 10:55  
 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 :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:09:49 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.185  | 49   | 1208732  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.648  | 114  | 3351063  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.462 | 117  | 3155486  | 10.000 | ppbv  | # 0.00   |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 13.773 | 95    | 2278471  | 9.764    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.600% |

## Target Compounds

|                               |       |     |        |       |      | Qvalue |
|-------------------------------|-------|-----|--------|-------|------|--------|
| 2) Dichlorodifluoromethane    | 2.726 | 85  | 514444 | 2.355 | ppbv | 97     |
| 3) Chlorodifluoromethane      | 2.671 | 51  | 328832 | 2.088 | ppbv | 99     |
| 4) Chloromethane              | 2.806 | 50  | 174215 | 2.088 | ppbv | 98     |
| 5) Vinyl Chloride             | 2.915 | 62  | 164345 | 2.174 | ppbv | 95     |
| 6) Bromomethane               | 3.115 | 94  | 83930  | 2.108 | ppbv | 95     |
| 7) Chloroethane               | 3.192 | 64  | 56344  | 2.057 | ppbv | 95     |
| 8) Dichlorotetrafluoroethane  | 2.851 | 85  | 407437 | 2.089 | ppbv | 100    |
| 9) Propene                    | 2.690 | 41  | 145858 | 2.125 | ppbv | 96     |
| 10) Heptane                   | 7.574 | 43  | 329781 | 2.145 | ppbv | 100    |
| 11) Trichlorofluoromethane    | 3.558 | 101 | 404483 | 2.126 | ppbv | 96     |
| 12) 1,1,2-Trichlorotrifluo... | 4.060 | 101 | 293463 | 2.122 | ppbv | 100    |
| 13) Ethanol                   | 3.253 | 45  | 11047m | 2.588 | ppbv |        |
| 14) Bromoethene               | 3.362 | 108 | 115140 | 2.071 | ppbv | 97     |
| 15) Acetone                   | 3.468 | 43  | 325763 | 2.190 | ppbv | 98     |
| 16) 1,3-Butadiene             | 2.980 | 39  | 166496 | 2.232 | ppbv | 100    |
| 17) tert-Butyl alcohol        | 3.880 | 59  | 250452 | 1.919 | ppbv | 100    |
| 18) 1,1-Dichloroethene        | 3.877 | 96  | 125850 | 2.075 | ppbv | 97     |
| 19) Isopropyl Alcohol         | 3.581 | 45  | 145112 | 2.015 | ppbv | # 98   |
| 20) Methylene Chloride        | 3.928 | 84  | 107956 | 1.972 | ppbv | 95     |
| 21) Allyl Chloride            | 3.992 | 41  | 188103 | 2.046 | ppbv | 93     |
| 22) trans-1,2-Dichloroethene  | 4.439 | 96  | 127951 | 2.114 | ppbv | 97     |
| 23) Vinyl Acetate             | 4.623 | 43  | 146592 | 2.095 | ppbv | 99     |
| 24) 1,1-Dichloroethane        | 4.555 | 63  | 311096 | 2.311 | ppbv | 99     |
| 25) Ethyl Acetate             | 5.201 | 43  | 648134 | 2.105 | ppbv | 99     |
| 26) Hexane                    | 5.205 | 57  | 247802 | 2.095 | ppbv | 93     |
| 27) Carbon Disulfide          | 4.121 | 76  | 275871 | 2.076 | ppbv | # 92   |
| 28) Methyl tert-Butyl Ether   | 4.587 | 73  | 178647 | 2.345 | ppbv | 100    |
| 29) Chloroform                | 5.269 | 83  | 397794 | 2.037 | ppbv | 98     |
| 30) Cyclohexane               | 6.594 | 84  | 205987 | 2.167 | ppbv | 95     |
| 31) cis-1,2-Dichloroethene    | 5.073 | 61  | 231792 | 2.037 | ppbv | 95     |
| 32) 1,1,1-Trichloroethane     | 5.996 | 97  | 391289 | 2.186 | ppbv | 99     |
| 34) 2-Butanone                | 4.783 | 43  | 351257 | 2.105 | ppbv | 97     |
| 35) Carbon Tetrachloride      | 6.491 | 117 | 399871 | 2.257 | ppbv | 99     |
| 36) Benzene                   | 6.368 | 78  | 538471 | 2.169 | ppbv | 96     |
| 37) 1,2-Dichloroethane        | 5.803 | 62  | 291330 | 2.080 | ppbv | 100    |
| 38) Trichloroethene           | 7.285 | 130 | 214170 | 2.237 | ppbv | 96     |
| 39) 1,2-Dichloropropane       | 7.069 | 63  | 206245 | 2.102 | ppbv | 97     |
| 40) 1,4-Dioxane               | 7.291 | 88  | 82194m | 2.365 | ppbv |        |
| 41) Tetrahydrofuran           | 5.561 | 42  | 206889 | 2.173 | ppbv | 99     |
| 42) Bromodichloromethane      | 7.243 | 83  | 411846 | 2.116 | ppbv | 100    |
| 43) Methyl Methacrylate       | 7.471 | 69  | 186557 | 2.140 | ppbv | 95     |
| 44) 2,2,4-Trimethylpentane    | 7.323 | 57  | 932386 | 2.217 | ppbv | 99     |
| 45) t-1,3-Dichloropropene     | 8.709 | 75  | 150360 | 1.929 | ppbv | 97     |

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 Data File : VL041675.D  
 Acq On : 7 Nov 2024 10:55  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Nov 08 00:09:49 2024  
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.137  | 75   | 234294   | 2.069 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 8.899  | 97   | 218012m  | 2.061 | ppbv   |          |
| 48) Dibromochloromethane      | 9.703  | 129  | 342372   | 2.121 | ppbv   | 99       |
| 49) Bromoform                 | 12.404 | 173  | 286412   | 2.080 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.185  | 43   | 563317   | 2.198 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.558  | 43   | 402751   | 2.163 | ppbv   | 97       |
| 52) Tetrachloroethene         | 10.616 | 164  | 191108m  | 2.252 | ppbv   |          |
| 53) Toluene                   | 9.220  | 91   | 564332   | 2.161 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.005 | 107  | 279460   | 2.262 | ppbv   | 95       |
| 56) 1,1,1,2-Tetrachloroethane | 11.507 | 131  | 279872   | 2.130 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.519 | 112  | 500524   | 2.128 | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.085 | 91   | 777614   | 2.225 | ppbv   | 96       |
| 59) m/p-Xylene                | 12.368 | 91   | 1403331m | 4.488 | ppbv   |          |
| 60) o-Xylene                  | 13.053 | 91   | 674003   | 2.258 | ppbv   | 98       |
| 61) Styrene                   | 12.892 | 104  | 262837   | 2.133 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.024 | 105  | 1030511  | 2.236 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.043 | 83   | 488021   | 2.245 | ppbv   | 99       |
| 64) n-propylbenzene           | 14.915 | 120  | 271271   | 2.251 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 16.085 | 119  | 948395   | 2.290 | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.326 | 91   | 61799m   | 2.072 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.632 | 105  | 1349679  | 2.312 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 16.992 | 119  | 1097205  | 2.324 | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.886 | 91   | 1109618  | 2.293 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 14.796 | 91   | 745884   | 2.238 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.188 | 105  | 777952   | 2.244 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 15.346 | 105  | 691387   | 2.274 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene    | 16.101 | 105  | 796450   | 2.252 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 16.329 | 146  | 473241   | 2.167 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.471 | 146  | 448788   | 2.091 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 17.140 | 146  | 466190   | 2.149 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 22.628 | 225  | 367865   | 2.144 | ppbv   | 99       |
| 79) Naphthalene               | 21.387 | 128  | 538842   | 2.478 | ppbv   | 97       |
| 80) Naphthalene,2-methyl-     | 24.381 | 142  | 101409   | 2.513 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.143 | 180  | 287687   | 2.127 | ppbv   | 99       |

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

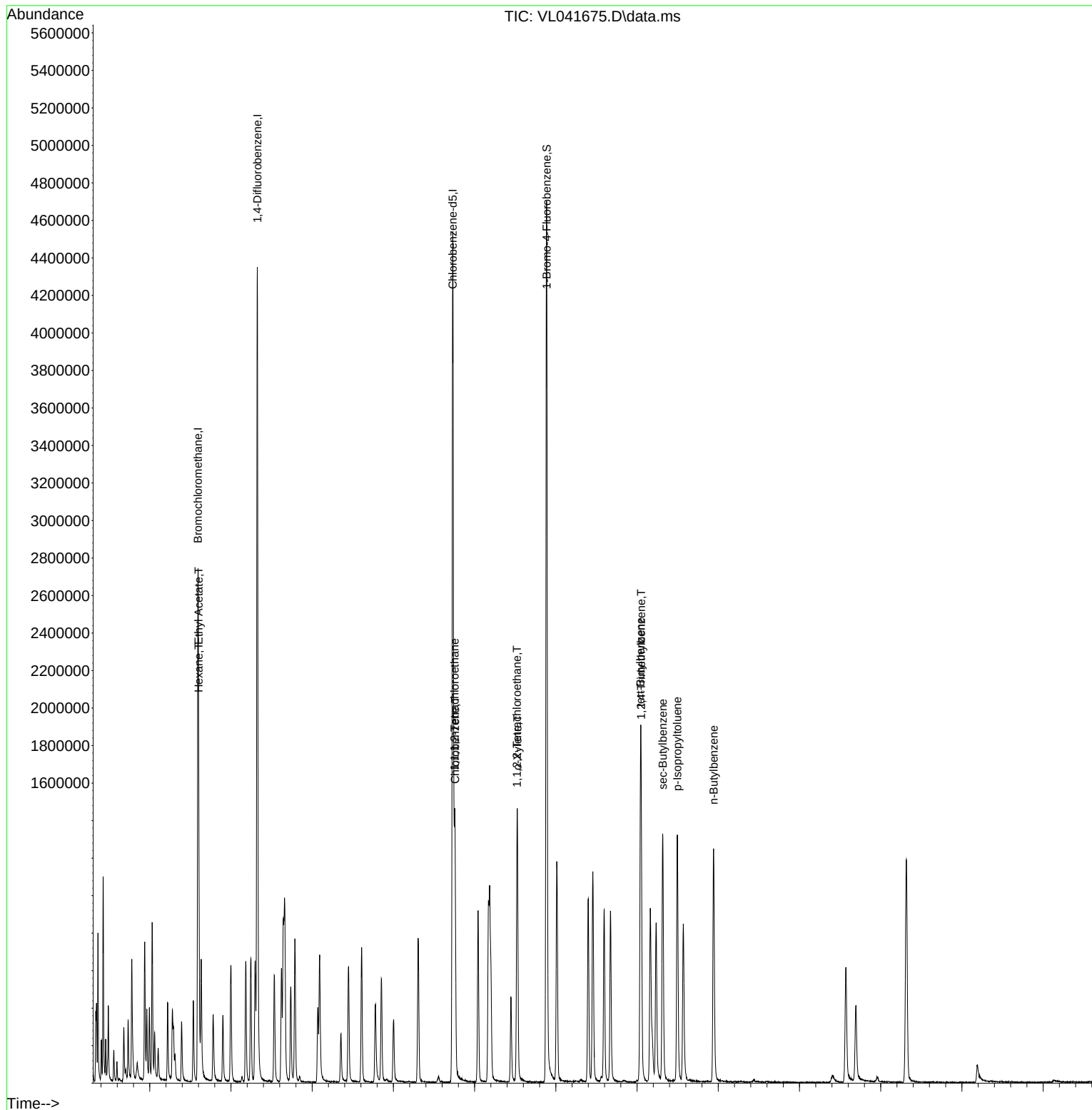
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Acq On : 7 Nov 2024 10:55  
Operator : SY/MD  
Sample : VSTDICC002  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

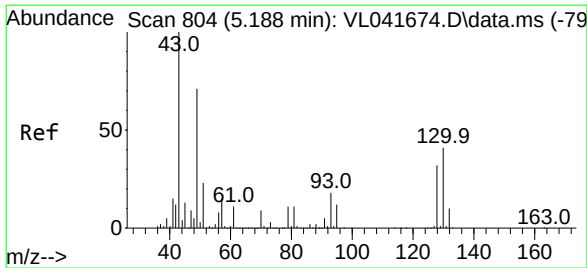
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MSVOA\_L  
ClientSampleId :  
VSTDICC002

Quant Time: Nov 08 00:09:49 2024  
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

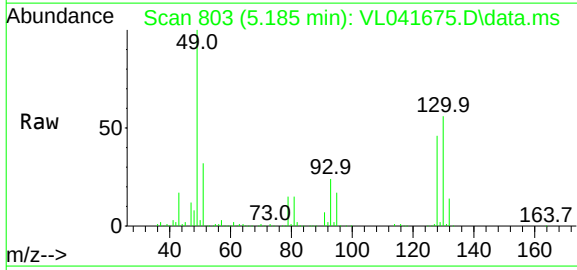
Reviewed By : Mahesh Dadoda 11/09/2024  
Supervised By : Semsettin Yesilyurt 11/09/2024





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.185 min Scan# 804  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

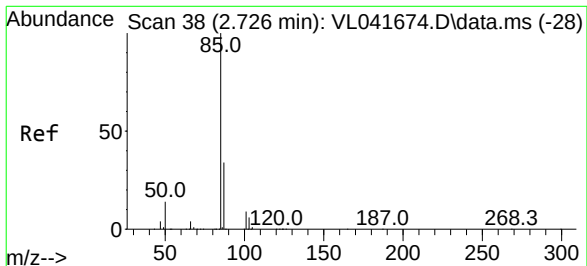
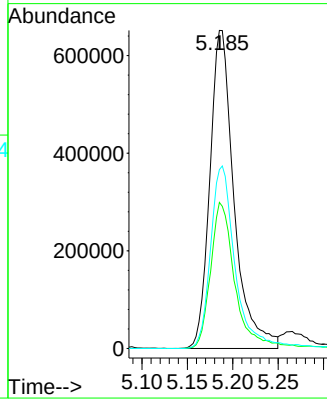
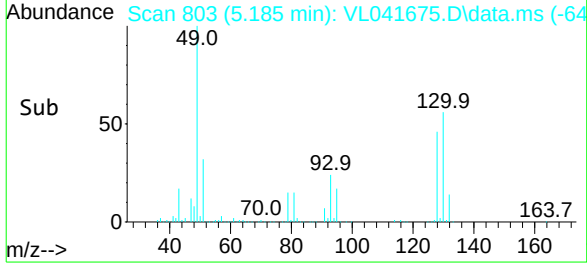
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion: 49 Resp: 1208732  
Ion Ratio Lower Upper  
49 100  
128 47.2 23.8 71.2  
130 59.8 30.1 90.5

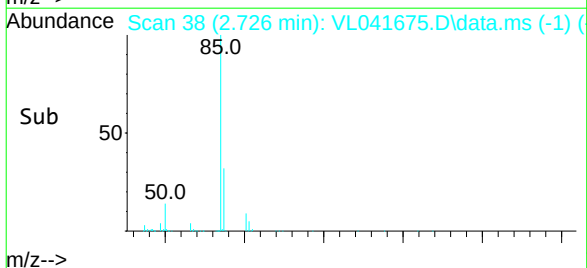
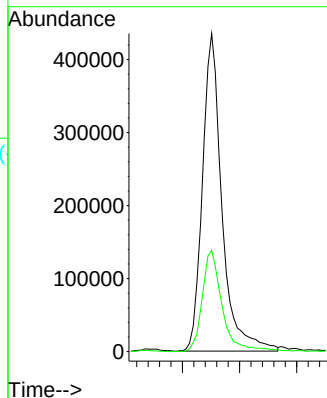
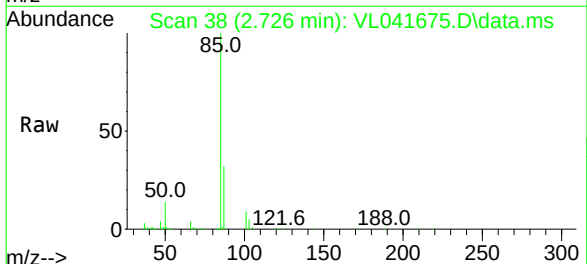
Manual Integrations  
APPROVED

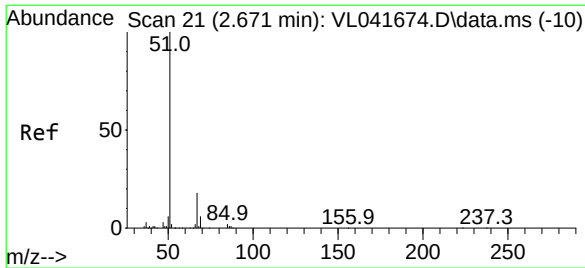
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#2  
Dichlorodifluoromethane  
Concen: 2.355 ppbv  
RT: 2.726 min Scan# 38  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 85 Resp: 514444  
Ion Ratio Lower Upper  
85 100  
87 31.9 26.8 40.2





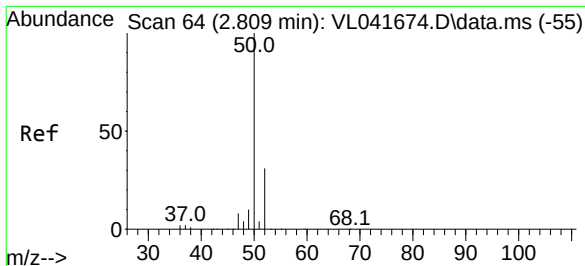
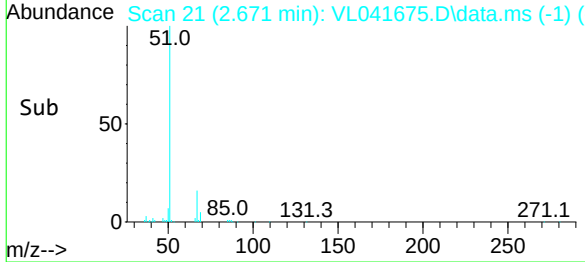
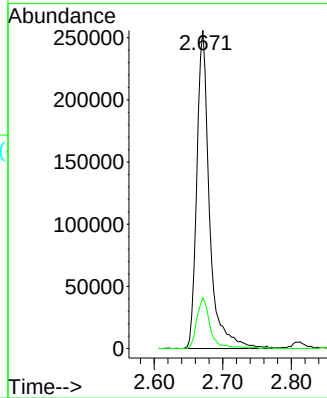
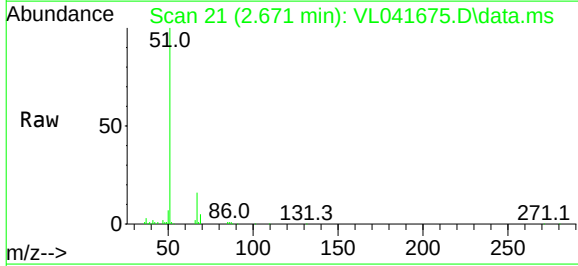
#3  
Chlorodifluoromethane  
Concen: 2.088 ppbv  
RT: 2.671 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 51 Resp: 328832  
Ion Ratio Lower Upper  
51 100  
67 16.9 13.9 20.9

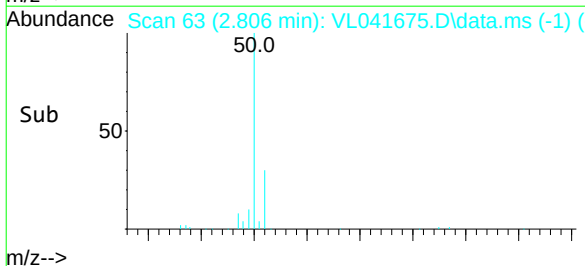
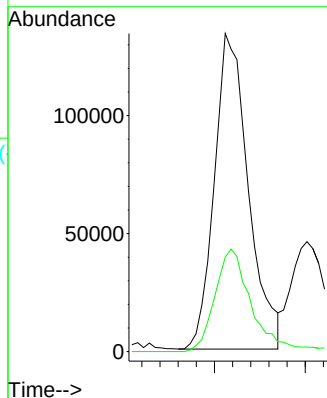
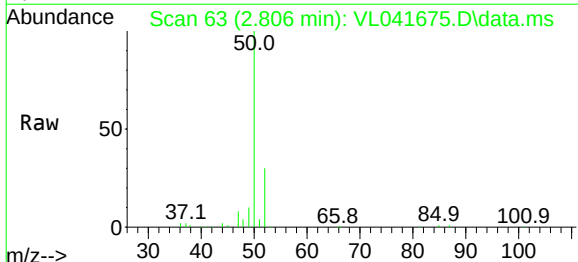
Manual Integrations  
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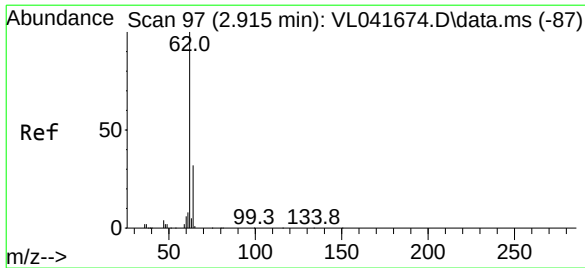
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#4  
Chloromethane  
Concen: 2.088 ppbv  
RT: 2.806 min Scan# 63  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 50 Resp: 174215  
Ion Ratio Lower Upper  
50 100  
52 29.9 24.9 37.3





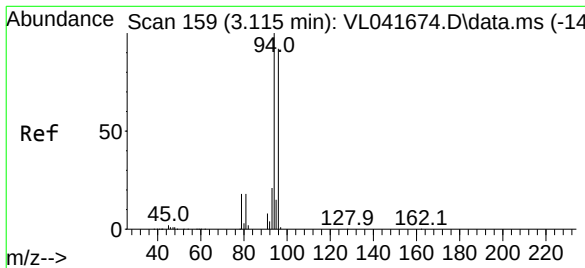
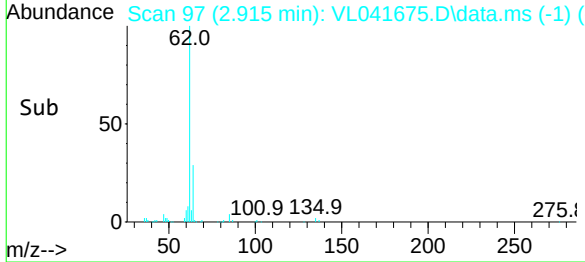
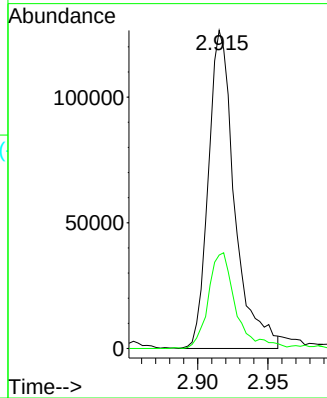
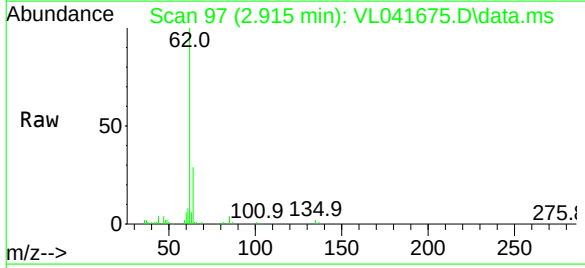
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Vinyl Chloride  
Concen: 2.174 ppbv  
RT: 2.915 min Scan# 97  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 62 Resp: 164345  
Ion Ratio Lower Upper  
62 100  
64 29.2 25.4 38.2

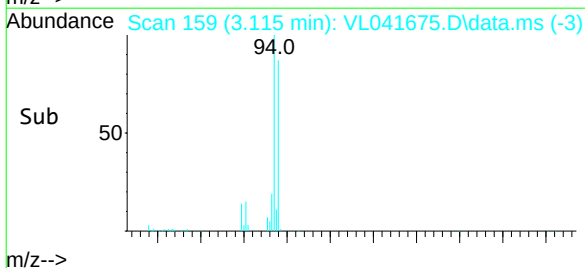
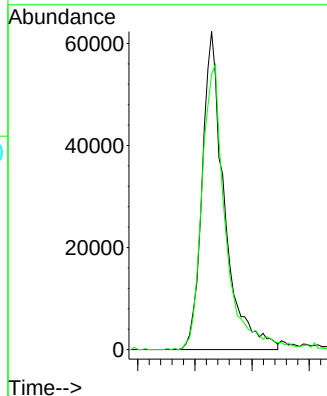
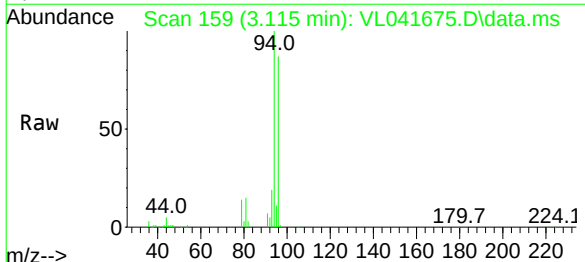
Manual Integrations  
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Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

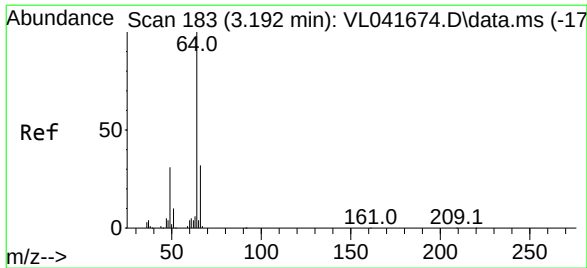


#6  
Bromomethane  
Concen: 2.108 ppbv  
RT: 3.115 min Scan# 159  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 94 Resp: 83930  
Ion Ratio Lower Upper  
94 100  
96 86.6 73.4 110.2

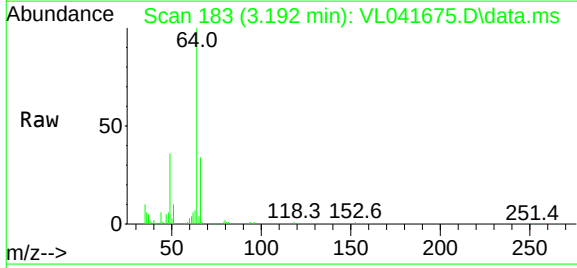






#7  
Chloroethane  
Concen: 2.057 ppbv  
RT: 3.192 min Scan# 18  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

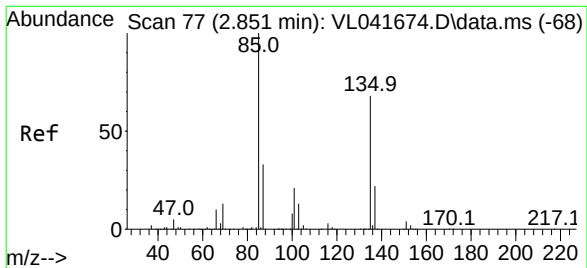
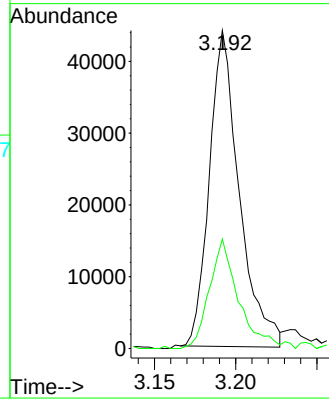
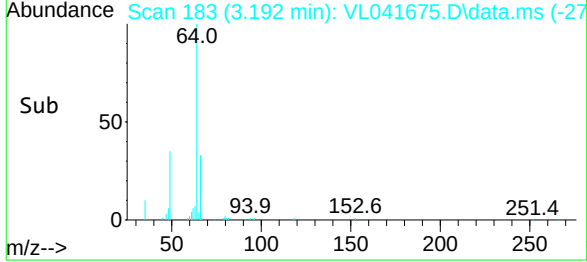
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion: 64 Resp: 56344  
Ion Ratio Lower Upper  
64 100  
66 35.0 25.9 38.9

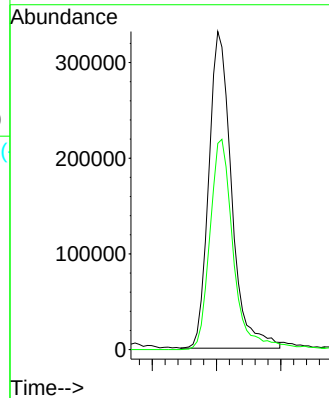
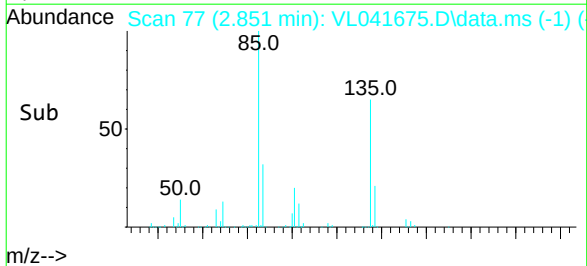
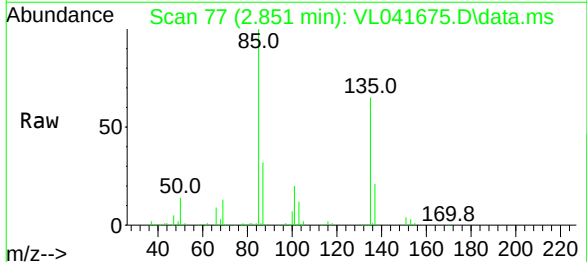
Manual Integrations  
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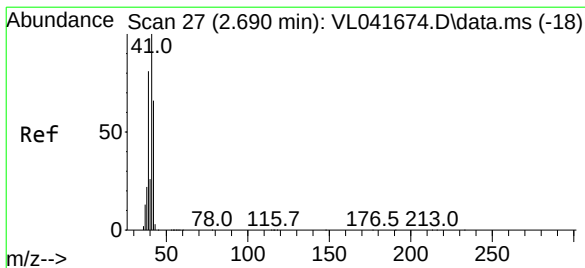
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#8  
Dichlorotetrafluoroethane  
Concen: 2.089 ppbv  
RT: 2.851 min Scan# 77  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 85 Resp: 407437  
Ion Ratio Lower Upper  
85 100  
135 69.7 55.5 83.3





#9

Propene

Concen: 2.125 ppbv

RT: 2.690 min Scan# 27

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 41 Resp: 145858

Ion Ratio Lower Upper

41 100

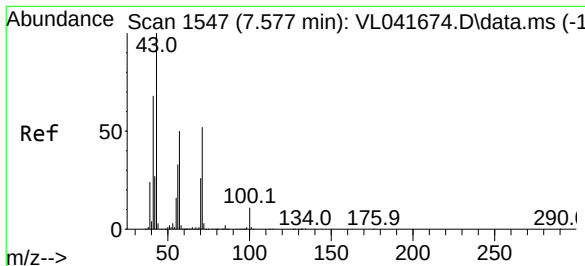
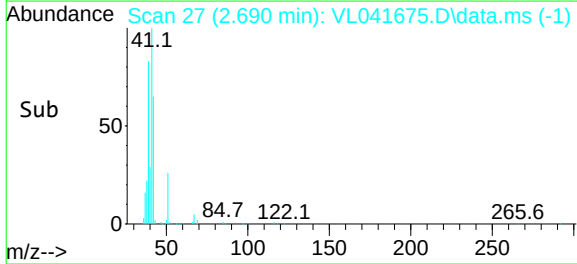
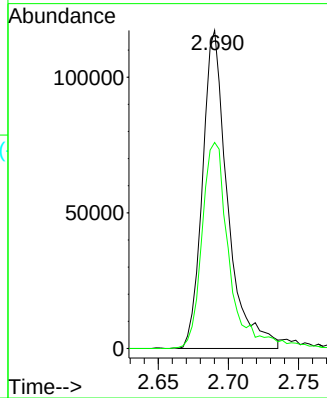
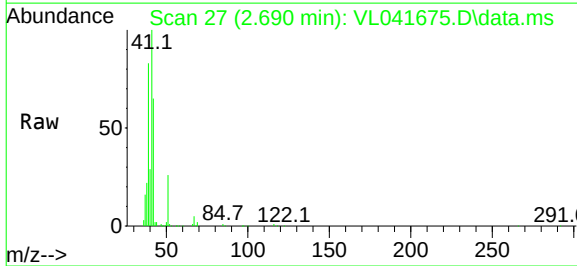
42 71.6 55.0 82.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#10

Heptane

Concen: 2.145 ppbv

RT: 7.574 min Scan# 1546

Delta R.T. -0.003 min

Lab File: VL041675.D

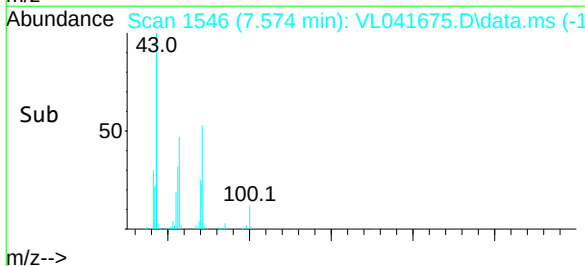
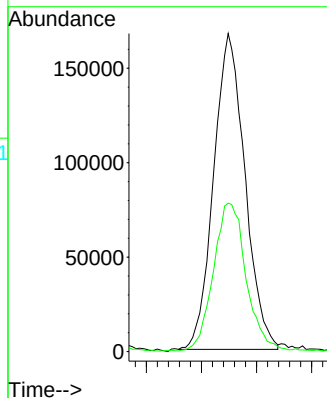
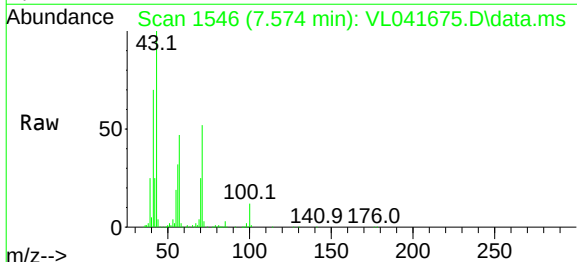
Acq: 7 Nov 2024 10:55

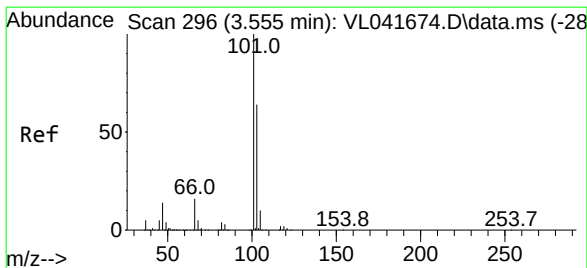
Tgt Ion: 43 Resp: 329781

Ion Ratio Lower Upper

43 100

57 50.1 40.0 60.0





#11

Trichlorofluoromethane

Concen: 2.126 ppbv

RT: 3.558 min Scan# 29

Delta R.T. 0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion:101 Resp: 404483

Ion Ratio Lower Upper

101 100

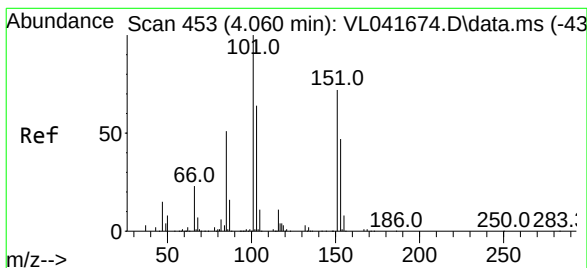
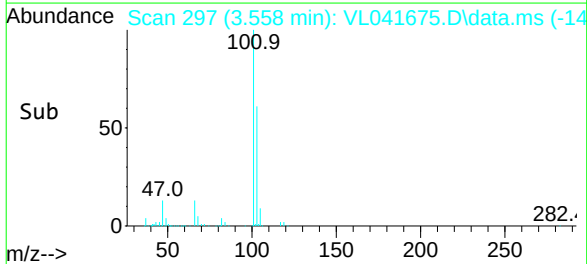
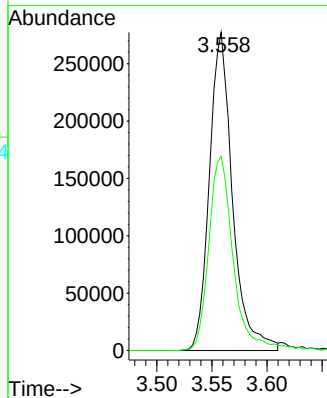
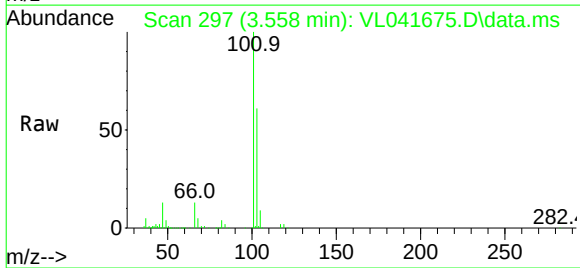
103 61.0 51.0 76.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.122 ppbv

RT: 4.060 min Scan# 453

Delta R.T. 0.000 min

Lab File: VL041675.D

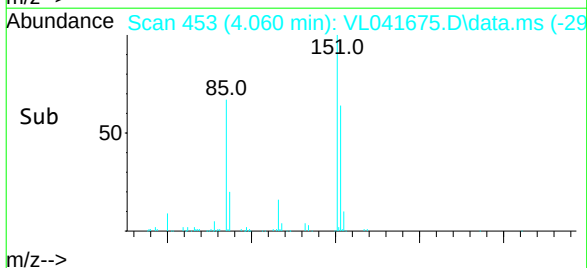
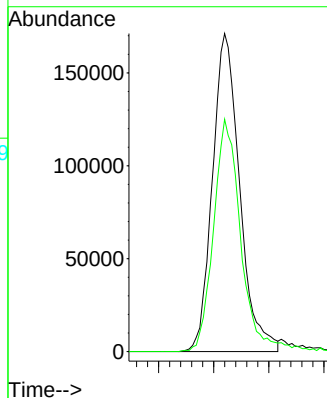
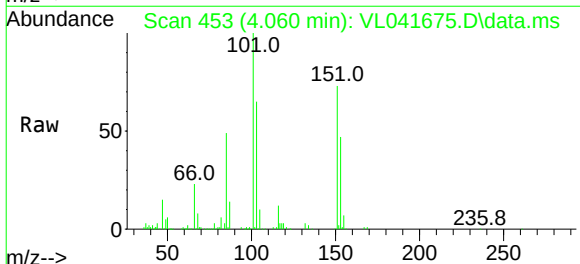
Acq: 7 Nov 2024 10:55

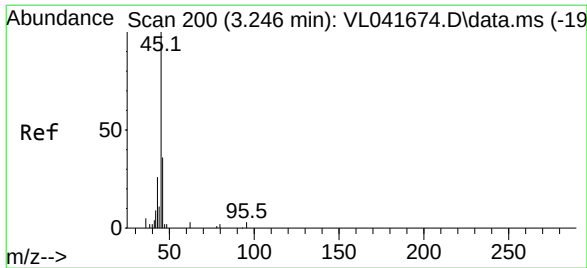
Tgt Ion:101 Resp: 293463

Ion Ratio Lower Upper

101 100

151 74.0 59.1 88.7





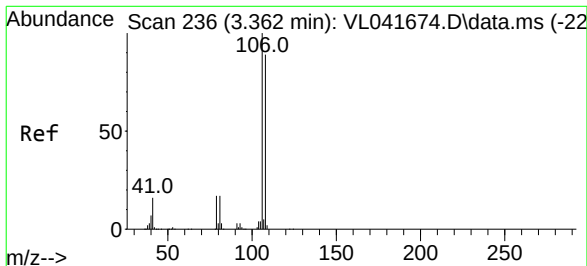
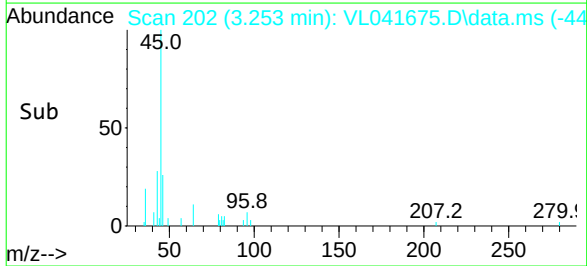
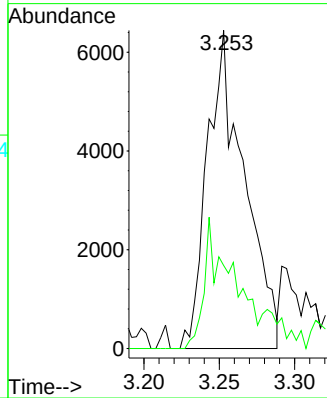
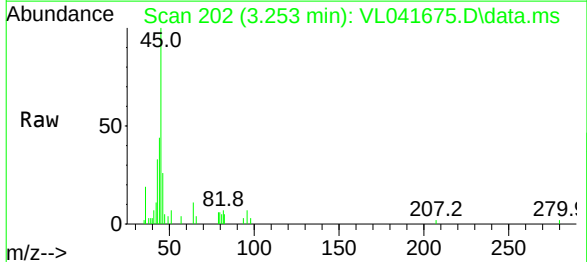
#13  
Ethanol  
Concen: 2.588 ppbv m  
RT: 3.253 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 45 Resp: 11047  
Ion Ratio Lower Upper  
45 100  
46 38.5 13.8 55.2

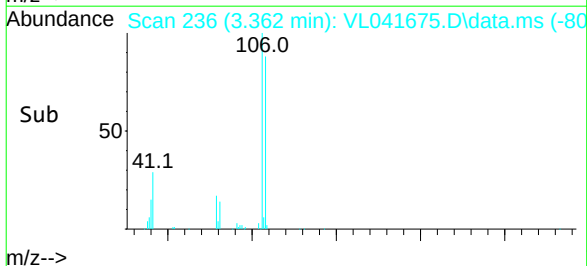
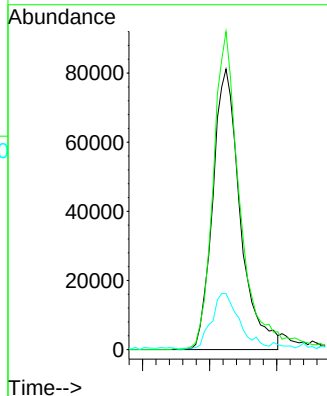
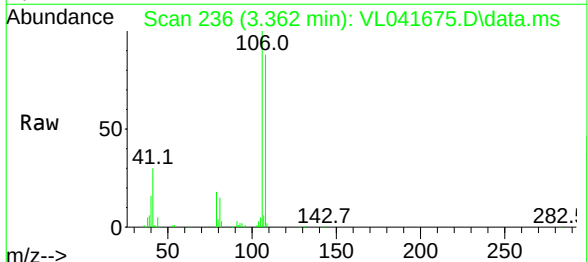
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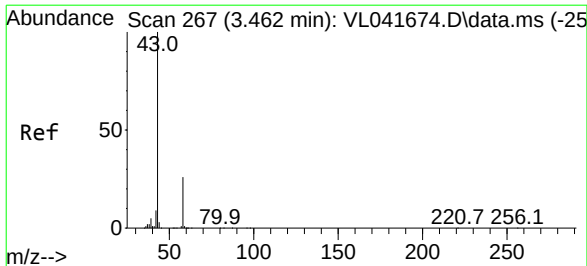
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#14  
Bromoethene  
Concen: 2.071 ppbv  
RT: 3.362 min Scan# 236  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion:108 Resp: 115140  
Ion Ratio Lower Upper  
108 100  
106 114.3 88.6 133.0  
79 21.5 15.6 23.4





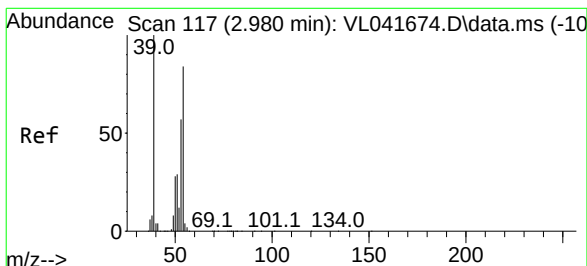
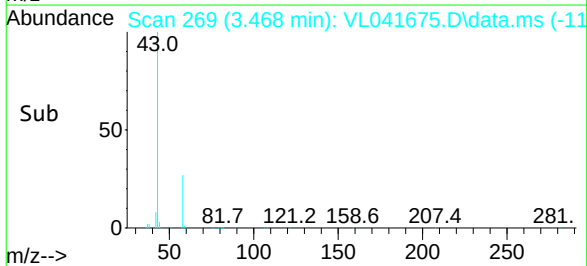
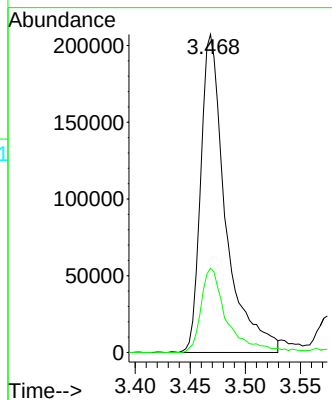
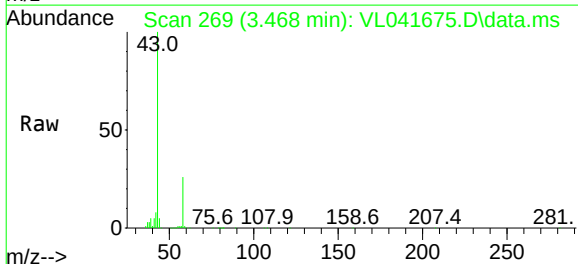
#15  
Acetone  
Concen: 2.190 ppbv  
RT: 3.468 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 43 Resp: 325763  
Ion Ratio Lower Upper  
43 100  
58 27.9 21.4 32.0

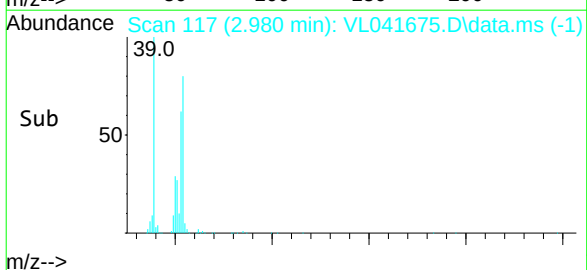
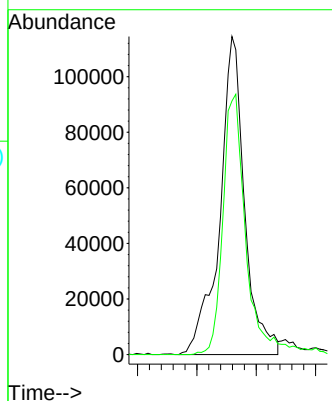
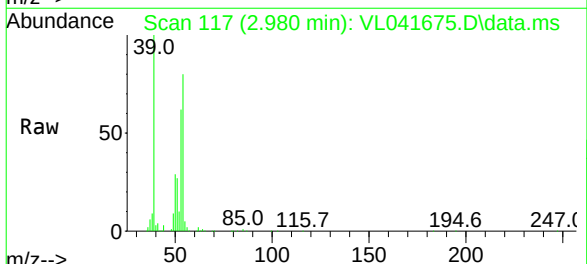
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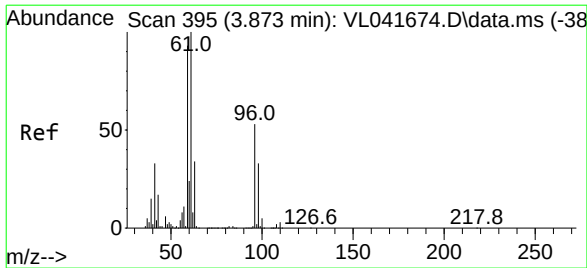
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#16  
1,3-Butadiene  
Concen: 2.232 ppbv  
RT: 2.980 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 39 Resp: 166496  
Ion Ratio Lower Upper  
39 100  
54 76.8 61.3 91.9





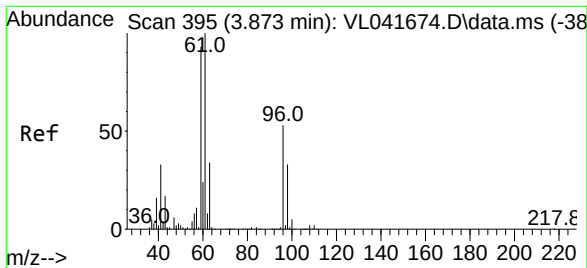
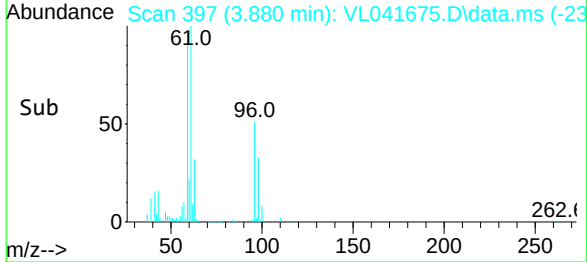
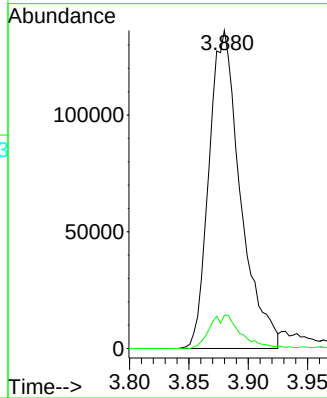
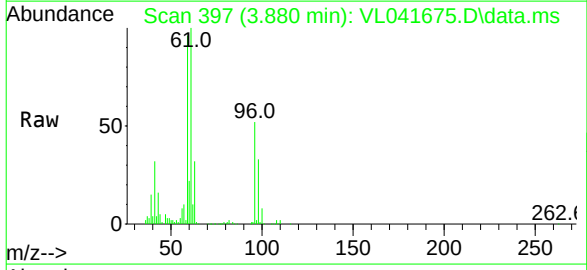
#17  
tert-Butyl alcohol  
Concen: 1.919 ppbv  
RT: 3.880 min Scan# 396  
Delta R.T. 0.006 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 59 Resp: 250452  
Ion Ratio Lower Upper  
59 100  
57 10.6 8.5 12.7

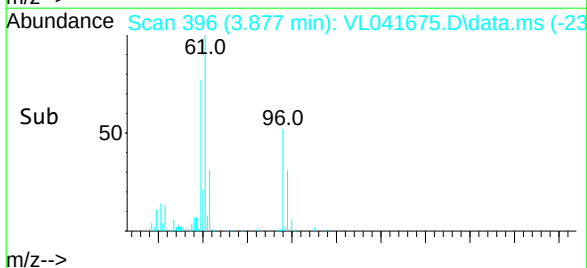
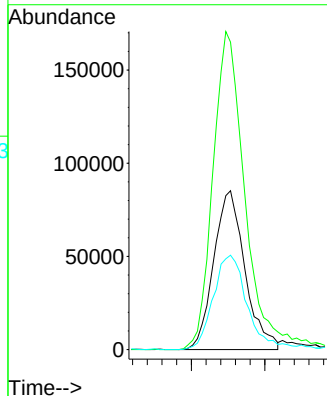
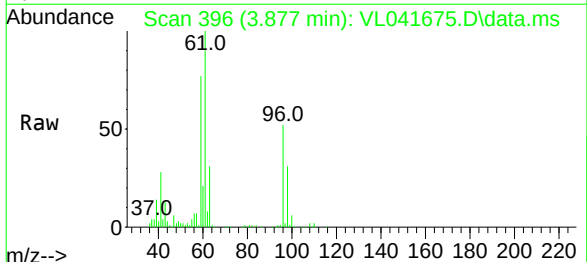
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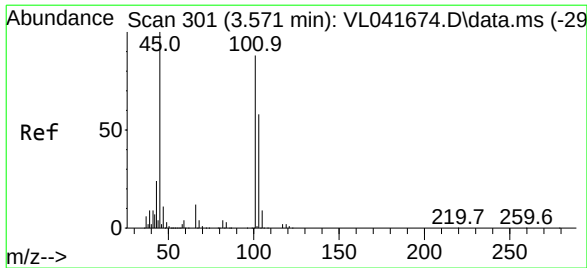
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#18  
1,1-Dichloroethene  
Concen: 2.075 ppbv  
RT: 3.877 min Scan# 396  
Delta R.T. 0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 96 Resp: 125850  
Ion Ratio Lower Upper  
96 100  
61 193.5 150.7 226.1  
98 59.4 49.4 74.2





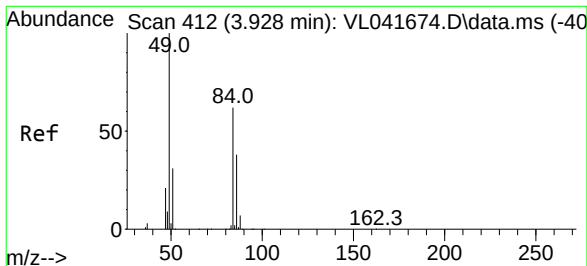
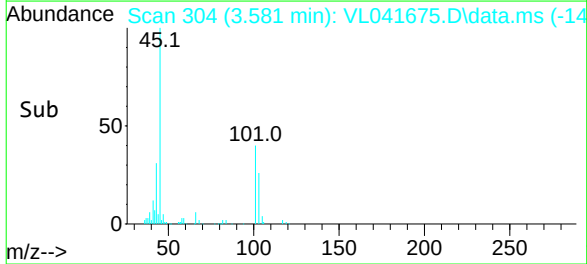
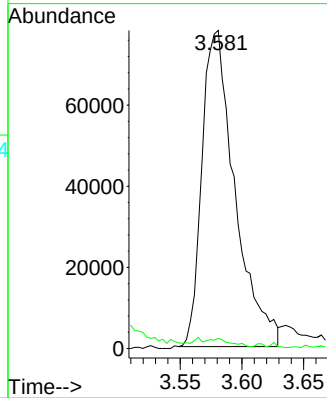
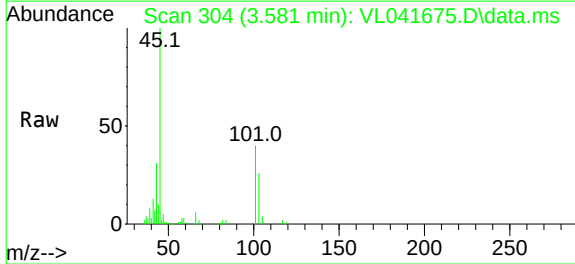
#19  
Isopropyl Alcohol  
Concen: 2.015 ppbv  
RT: 3.581 min Scan# 301  
Delta R.T. 0.010 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 45 Resp: 145112  
Ion Ratio Lower Upper  
45 100  
58 3.8 2.5 3.7#

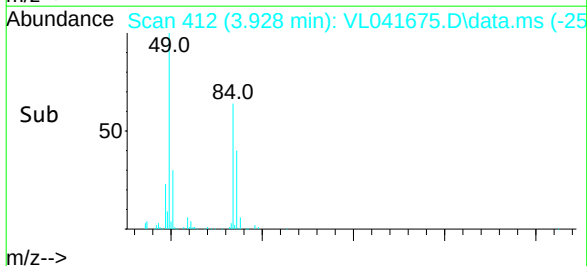
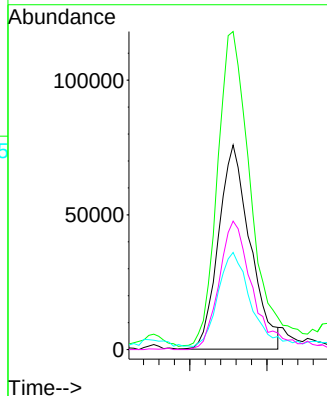
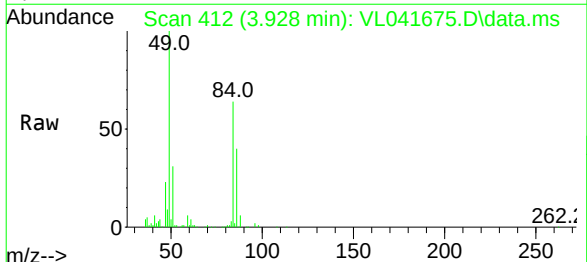
Manual Integrations  
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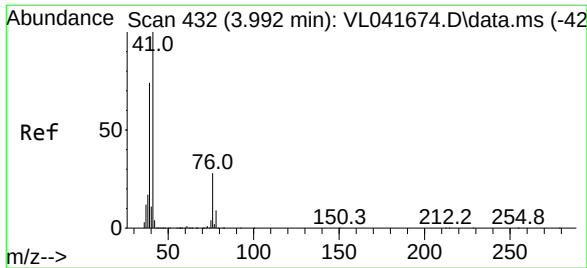
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#20  
Methylene Chloride  
Concen: 1.972 ppbv  
RT: 3.928 min Scan# 412  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 84 Resp: 107956  
Ion Ratio Lower Upper  
84 100  
49 154.2 129.7 194.5  
51 45.1 39.8 59.6  
86 62.9 49.1 73.7





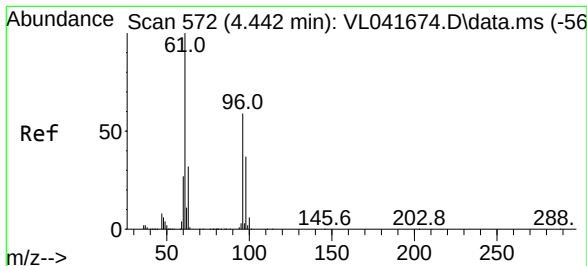
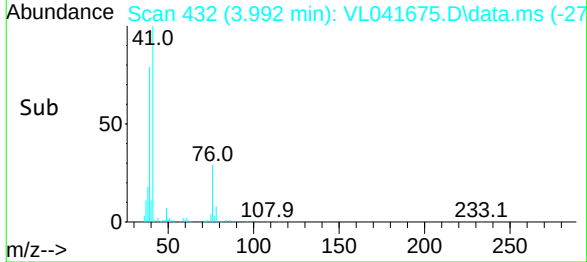
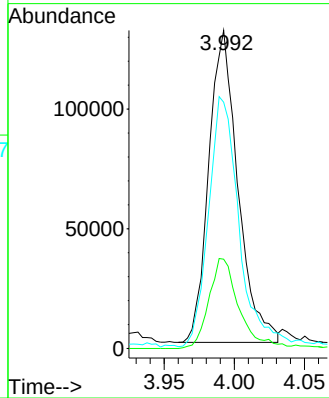
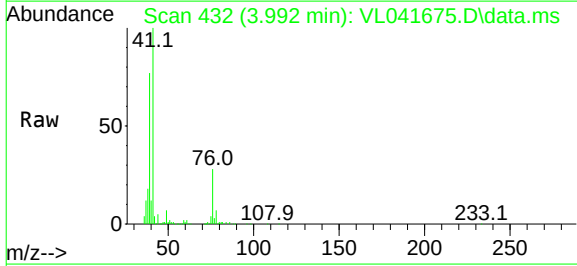
#21  
 Allyl Chloride  
 Concen: 2.046 ppbv  
 RT: 3.992 min Scan# 43  
 Delta R.T. 0.000 min  
 Lab File: VL041675.D  
 Acq: 7 Nov 2024 10:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 188103 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 76       | 30.7  | 23.5  | 35.3   |
| 39       | 86.5  | 63.0  | 94.4   |

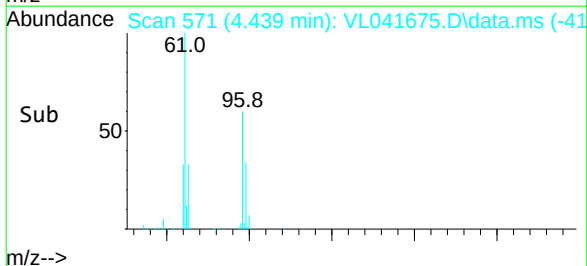
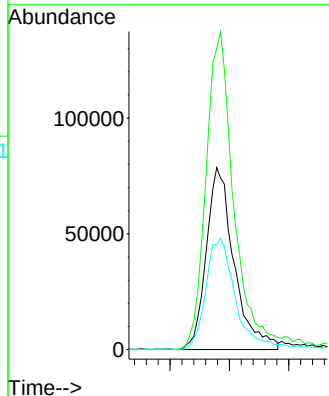
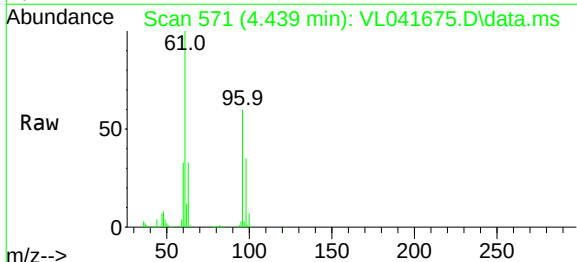
Manual Integrations  
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Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

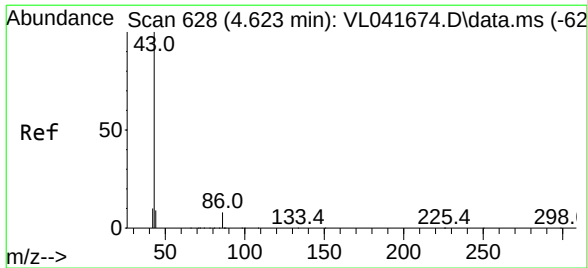


#22  
 trans-1,2-Dichloroethene  
 Concen: 2.114 ppbv  
 RT: 4.439 min Scan# 571  
 Delta R.T. -0.003 min  
 Lab File: VL041675.D  
 Acq: 7 Nov 2024 10:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 127951 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 164.9 | 134.5 | 201.7  |
| 98       | 57.4  | 49.6  | 74.4   |

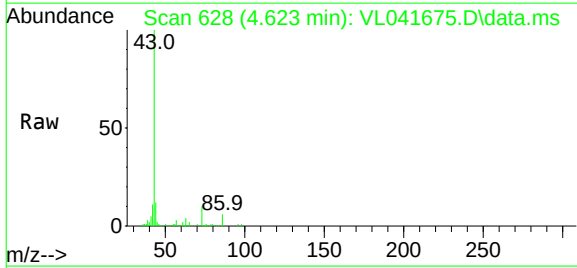






#23  
Vinyl Acetate  
Concen: 2.095 ppbv  
RT: 4.623 min Scan# 62  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

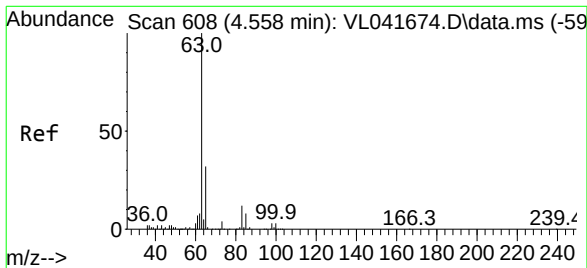
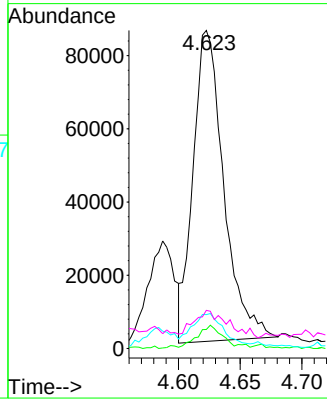
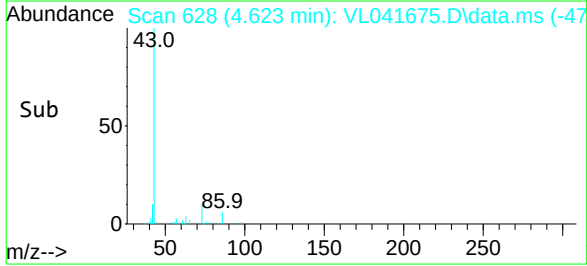
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



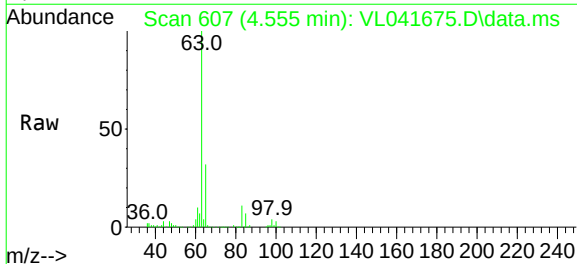
Tgt Ion: 43 Resp: 146592  
Ion Ratio Lower Upper  
43 100  
86 5.8 5.3 7.9  
42 10.1 8.5 12.7  
44 8.2 6.7 10.1

Manual Integrations  
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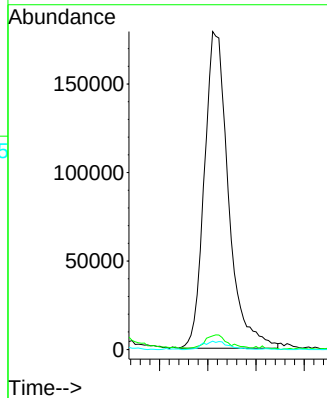
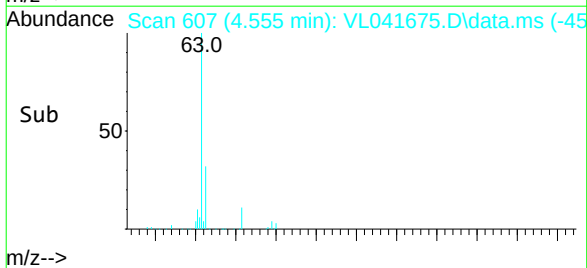
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

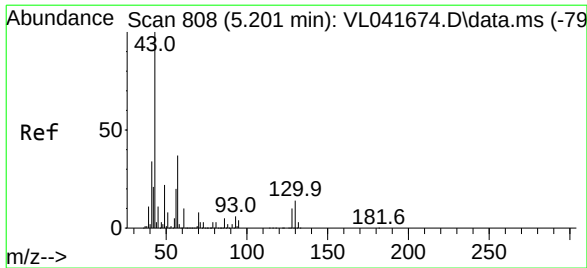


#24  
1,1-Dichloroethane  
Concen: 2.311 ppbv  
RT: 4.555 min Scan# 607  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55



Tgt Ion: 63 Resp: 311096  
Ion Ratio Lower Upper  
63 100  
98 4.0 1.8 5.4  
100 2.7 1.4 4.2





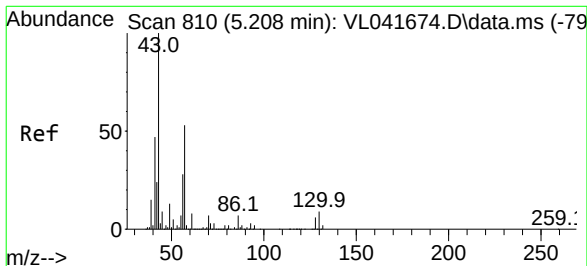
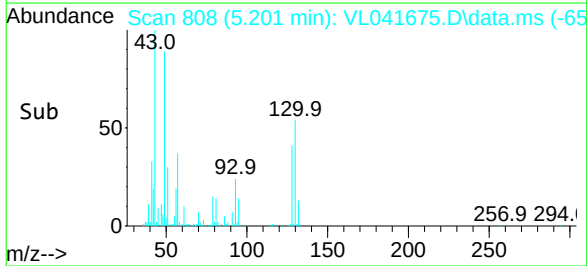
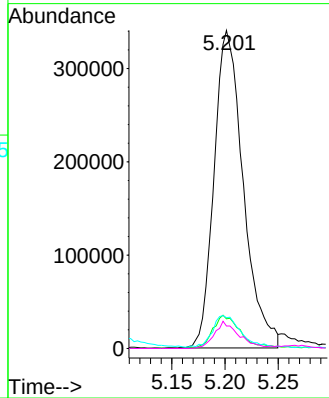
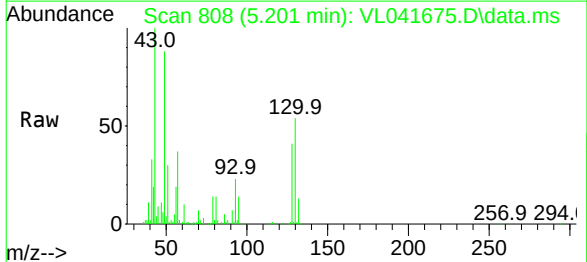
#25  
Ethyl Acetate  
Concen: 2.105 ppbv  
RT: 5.201 min Scan# 808  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 648134 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 45 10.4     | 8.6 13.0     |
| 61 10.4     | 8.4 12.6     |
| 70 7.4      | 5.8 8.6      |

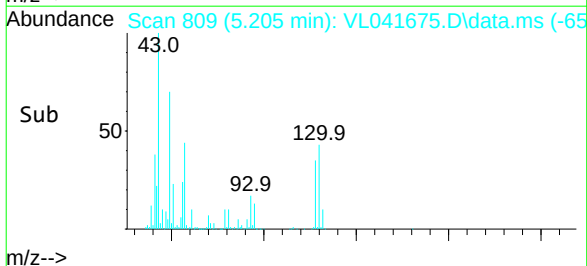
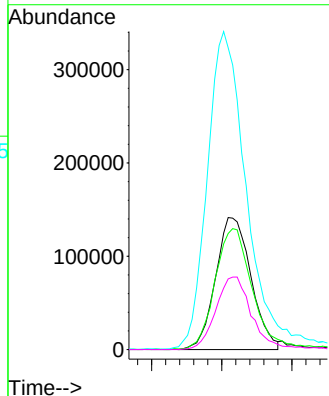
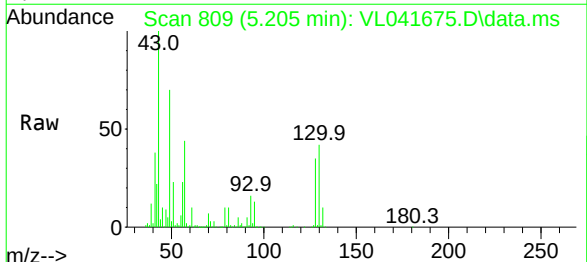
Manual Integrations  
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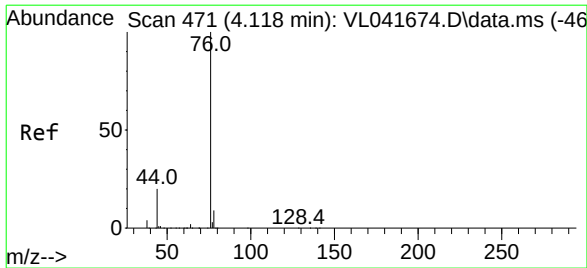
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#26  
Hexane  
Concen: 2.095 ppbv  
RT: 5.205 min Scan# 809  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 247802 |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 99.7     | 76.1 114.1   |
| 43 275.1    | 207.0 310.6  |
| 56 56.6     | 43.7 65.5    |





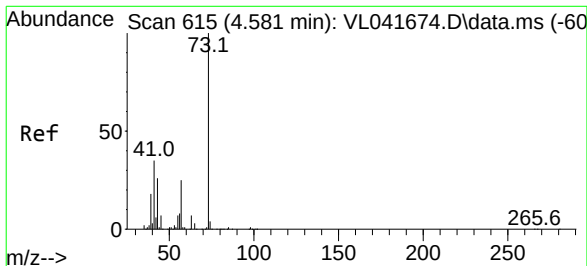
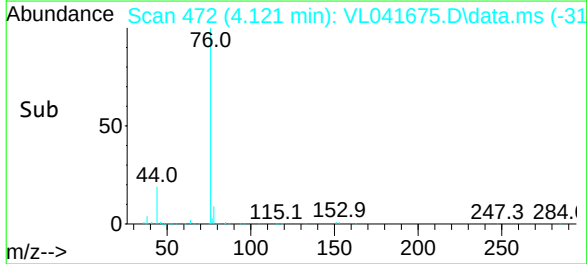
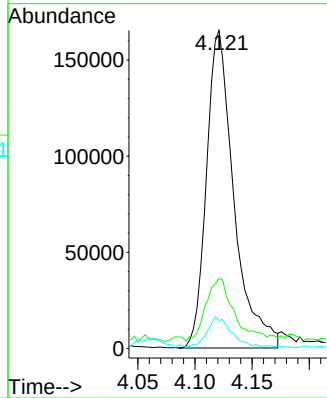
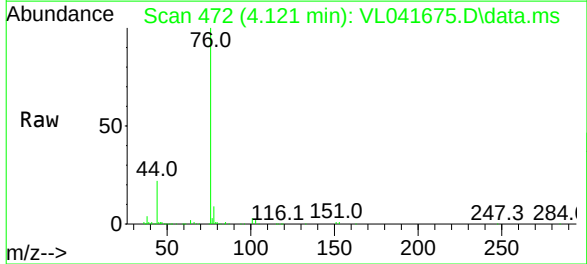
#27  
Carbon Disulfide  
Concen: 2.076 ppbv  
RT: 4.121 min Scan# 471  
Delta R.T. 0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 76 Resp: 275871  
Ion Ratio Lower Upper  
76 100  
44 25.2 15.8 23.8#  
78 9.9 7.5 11.3

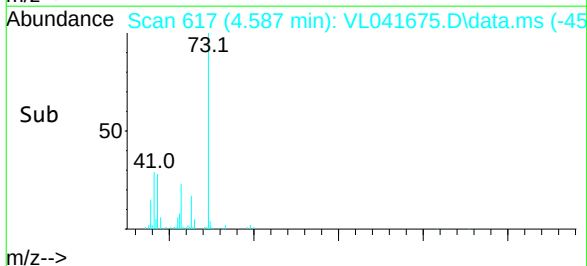
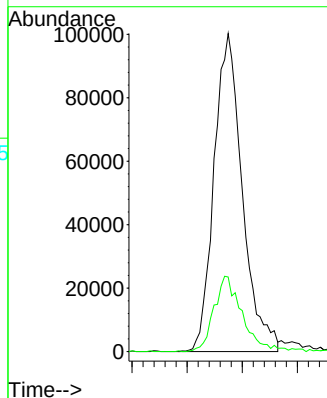
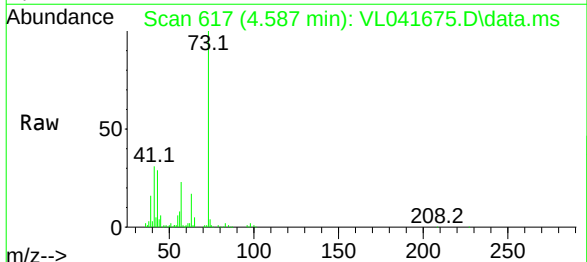
Manual Integrations  
APPROVED

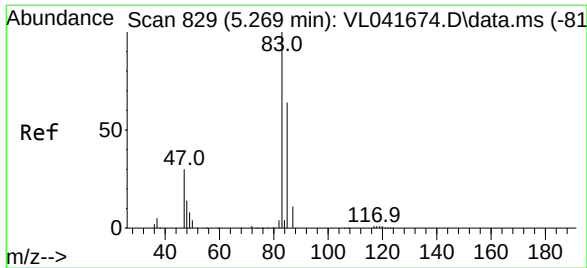
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#28  
Methyl tert-Butyl Ether  
Concen: 2.345 ppbv  
RT: 4.587 min Scan# 617  
Delta R.T. 0.006 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

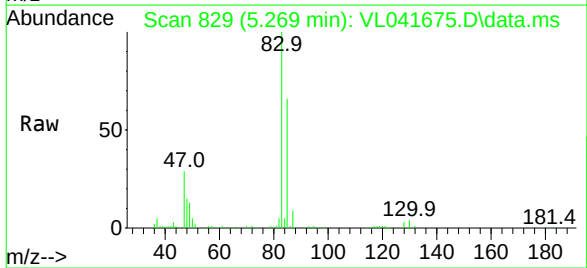
Tgt Ion: 73 Resp: 178647  
Ion Ratio Lower Upper  
73 100  
57 24.3 19.6 29.4





#29  
Chloroform  
Concen: 2.037 ppbv  
RT: 5.269 min Scan# 829  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

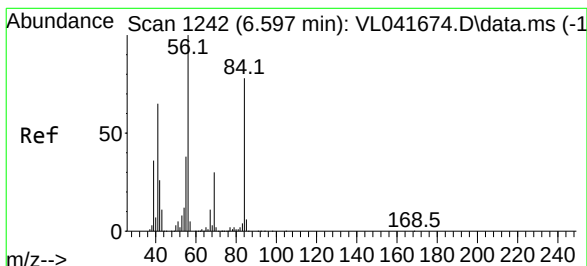
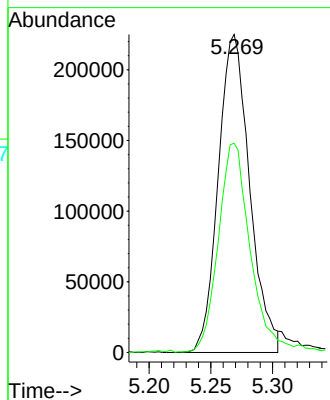
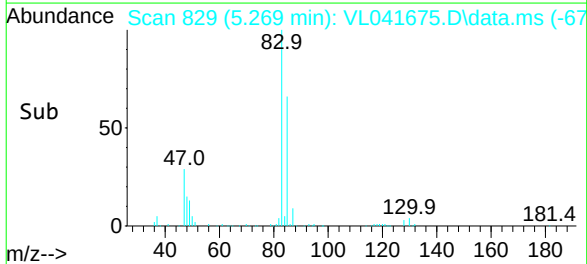
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



Tgt Ion: 83 Resp: 397794  
Ion Ratio Lower Upper  
83 100  
85 65.5 51.1 76.7

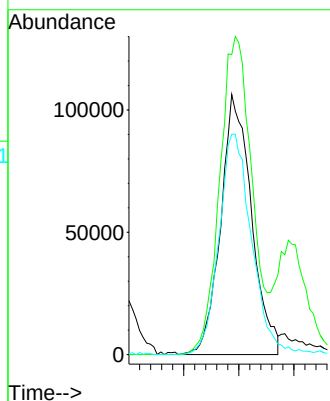
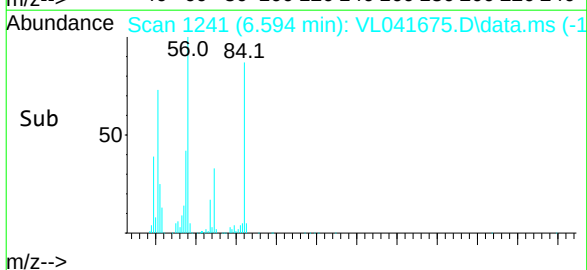
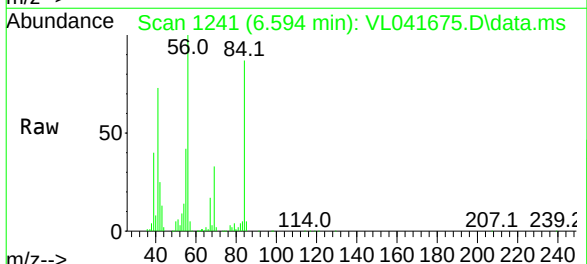
Manual Integrations  
APPROVED

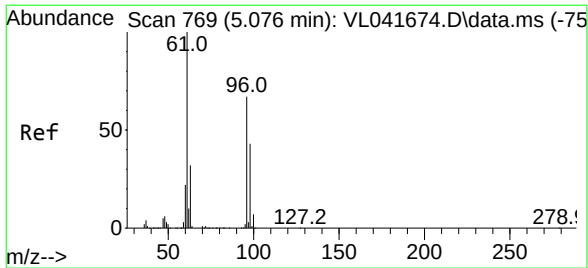
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#30  
Cyclohexane  
Concen: 2.167 ppbv  
RT: 6.594 min Scan# 1241  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 84 Resp: 205987  
Ion Ratio Lower Upper  
84 100  
56 132.2 110.8 166.2  
41 90.9 70.0 105.0





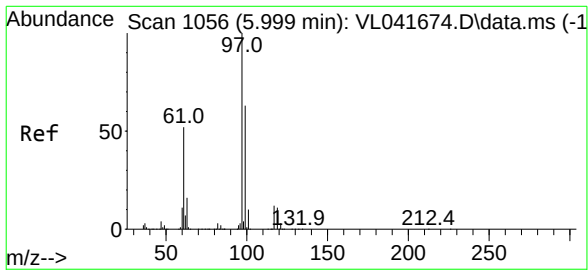
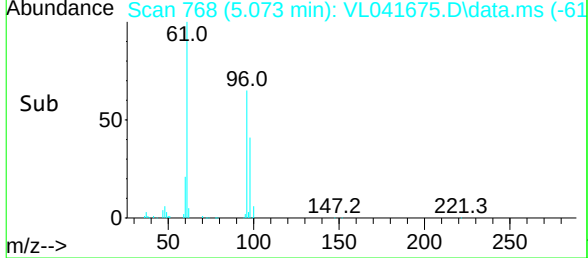
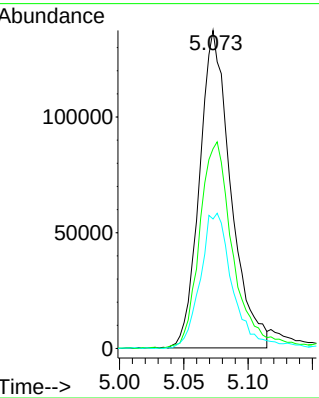
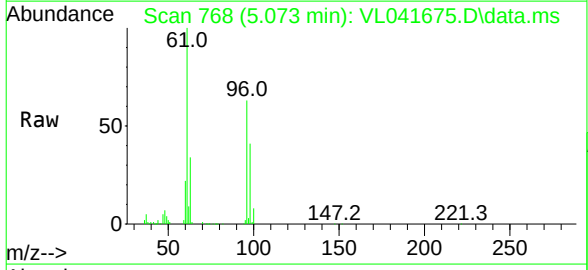
#31  
cis-1,2-Dichloroethene  
Concen: 2.037 ppbv  
RT: 5.073 min Scan# 769  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 61    | Resp: | 231792 |
| Ion      | Ratio | Lower | Upper  |
| 61       | 100   |       |        |
| 96       | 62.4  | 53.4  | 80.2   |
| 98       | 40.6  | 34.0  | 51.0   |

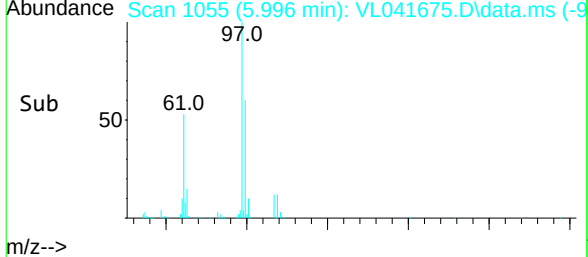
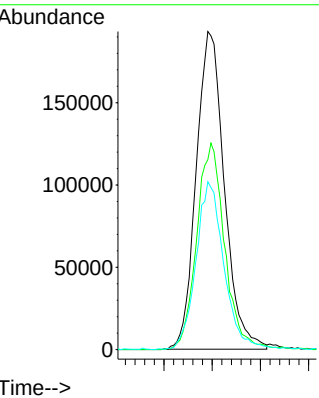
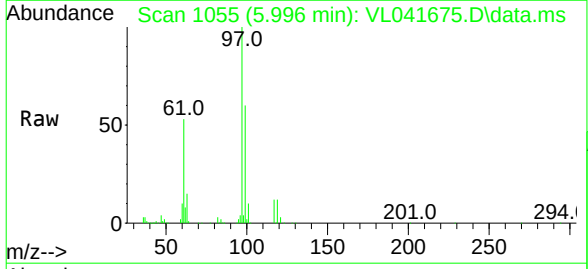
Manual Integrations  
APPROVED

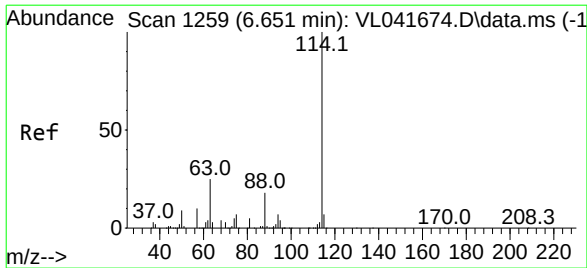
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#32  
1,1,1-Trichloroethane  
Concen: 2.186 ppbv  
RT: 5.996 min Scan# 1055  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

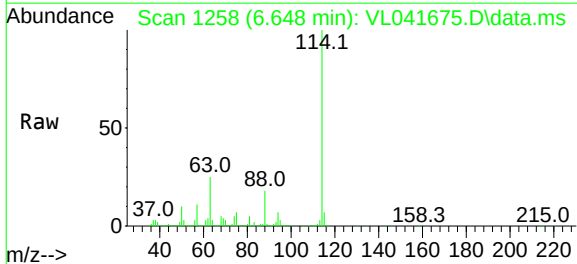
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 391289 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 64.8  | 51.4  | 77.2   |
| 61       | 53.0  | 41.7  | 62.5   |





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.648 min Scan# 12  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

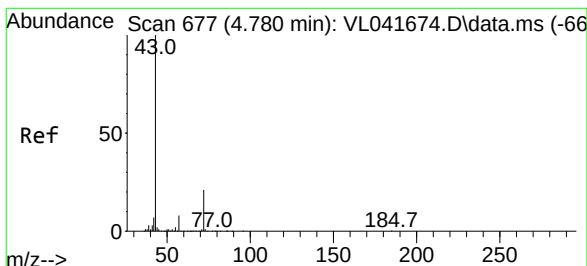
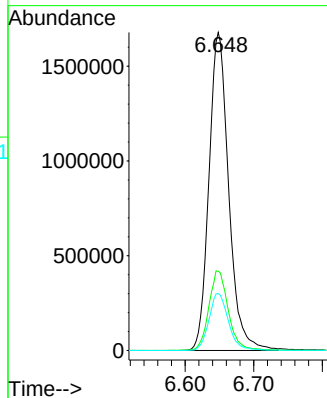
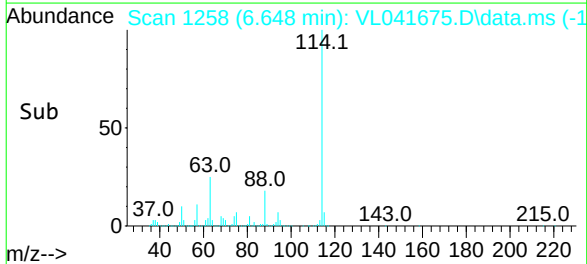
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



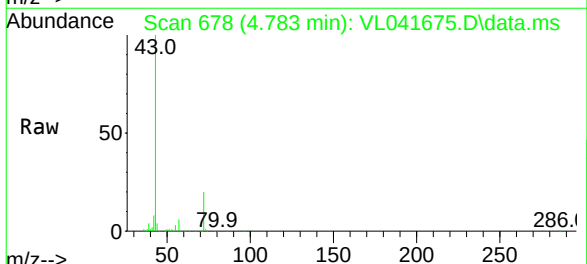
Tgt Ion: 114 Resp: 3351063  
Ion Ratio Lower Upper  
114 100  
63 24.9 20.3 30.5  
88 17.8 14.2 21.4

Manual Integrations  
APPROVED

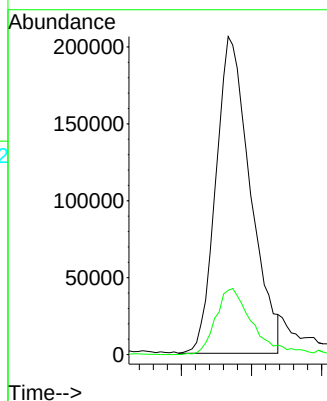
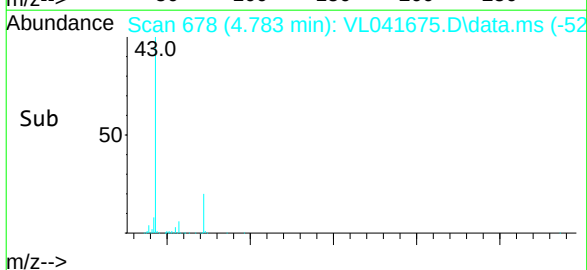
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

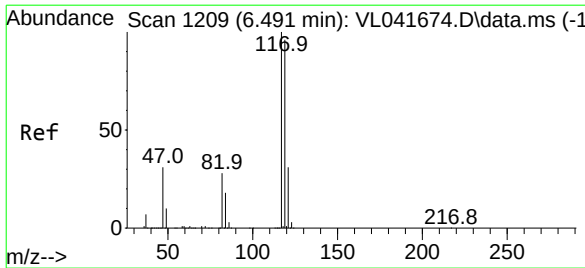


#34  
2-Butanone  
Concen: 2.105 ppbv  
RT: 4.783 min Scan# 678  
Delta R.T. 0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55



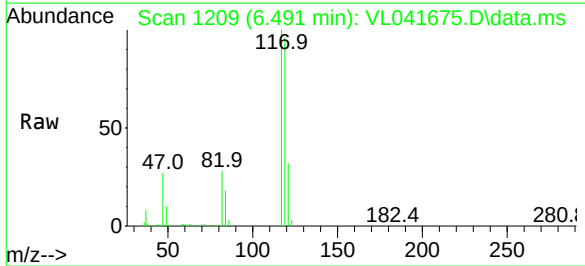
Tgt Ion: 43 Resp: 351257  
Ion Ratio Lower Upper  
43 100  
72 23.3 17.4 26.0





#35  
Carbon Tetrachloride  
Concen: 2.257 ppbv  
RT: 6.491 min Scan# 1209  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

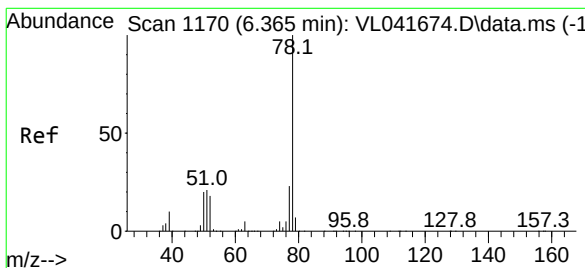
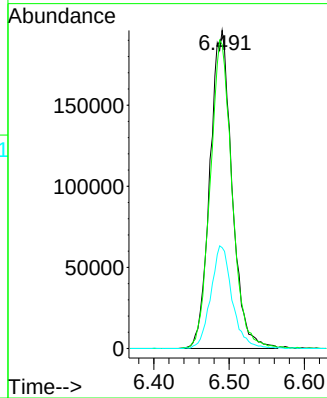
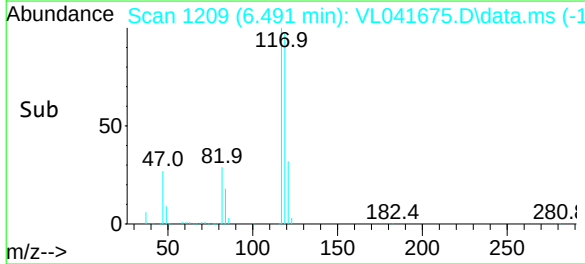
Instrument : MSVOA\_L  
ClientSampleId : VSTDICC002



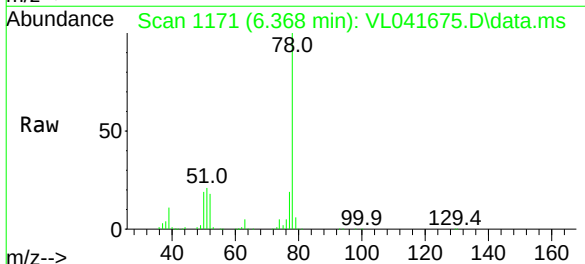
Tgt Ion: 117 Resp: 399871  
Ion Ratio Lower Upper  
117 100  
119 95.6 77.2 115.8  
121 31.7 25.0 37.4

Manual Integrations  
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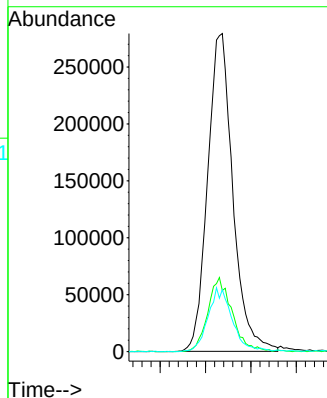
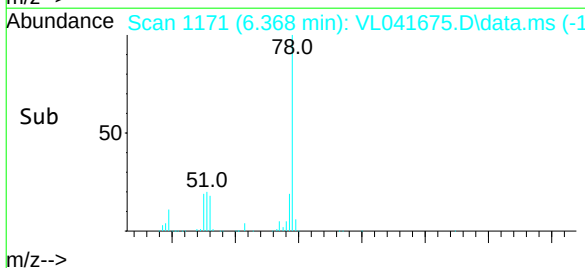
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

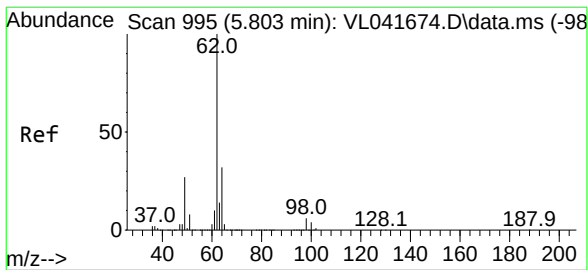


#36  
Benzene  
Concen: 2.169 ppbv  
RT: 6.368 min Scan# 1171  
Delta R.T. 0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55



Tgt Ion: 78 Resp: 538471  
Ion Ratio Lower Upper  
78 100  
77 19.1 18.5 27.7  
50 19.5 15.6 23.4





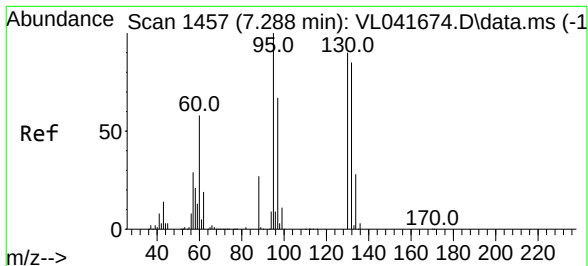
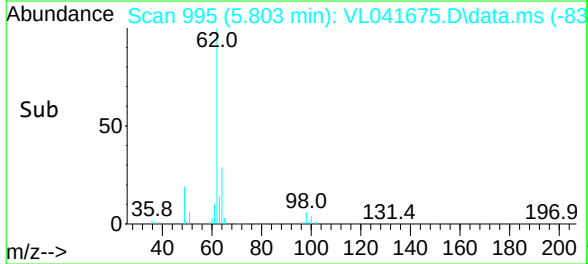
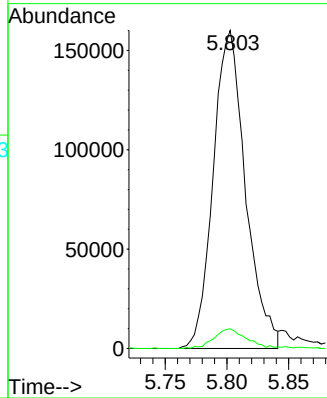
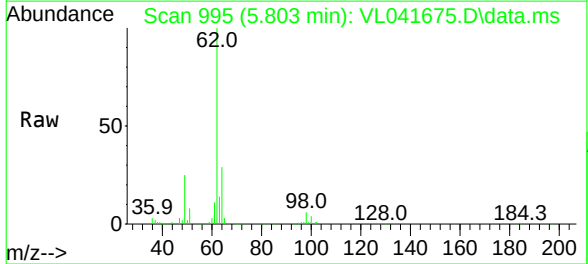
#37  
1,2-Dichloroethane  
Concen: 2.080 ppbv  
RT: 5.803 min Scan# 995  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 62 Resp: 291336  
Ion Ratio Lower Upper  
62 100  
98 6.6 5.2 7.8

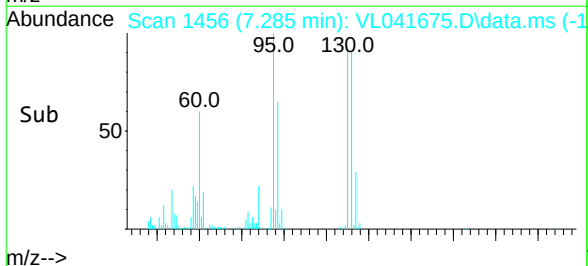
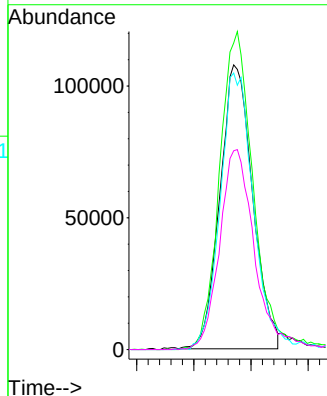
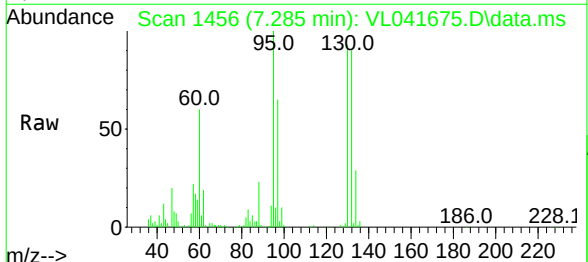
Manual Integrations  
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Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

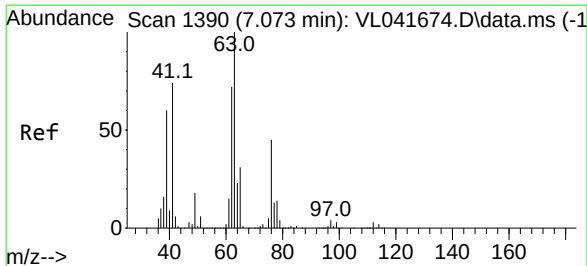


#38  
Trichloroethene  
Concen: 2.237 ppbv  
RT: 7.285 min Scan# 1456  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion:130 Resp: 214170  
Ion Ratio Lower Upper  
130 100  
95 108.0 89.1 133.7  
132 97.2 75.7 113.5  
97 70.0 60.0 90.0







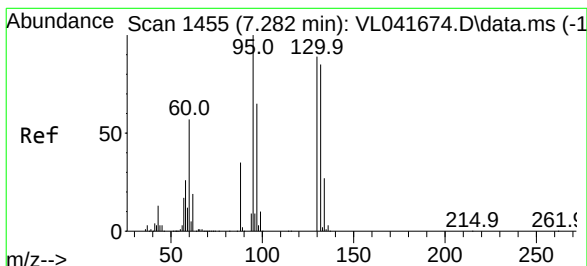
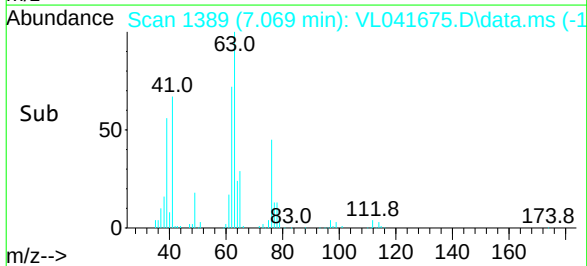
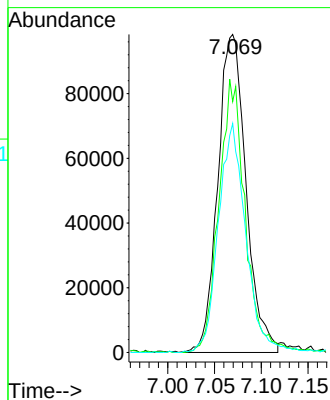
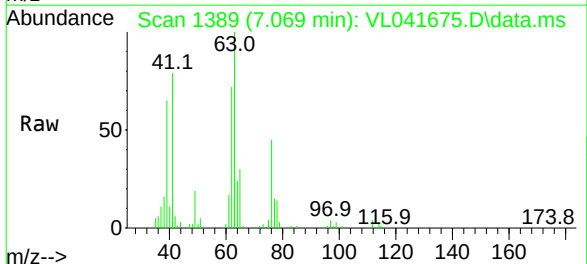
#39  
1,2-Dichloropropane  
Concen: 2.102 ppbv  
RT: 7.069 min Scan# 1389  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument : MSVOA\_L  
ClientSampleId : VSTDICC002

Tgt Ion: 63 Resp: 206245  
Ion Ratio Lower Upper  
63 100  
41 78.9 59.1 88.7  
62 72.0 57.7 86.5

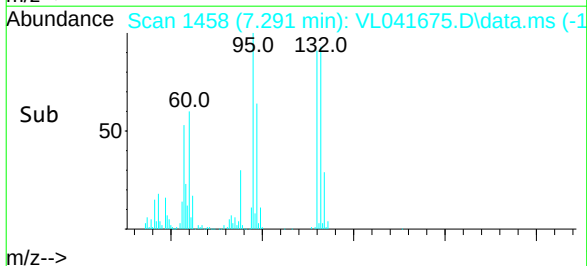
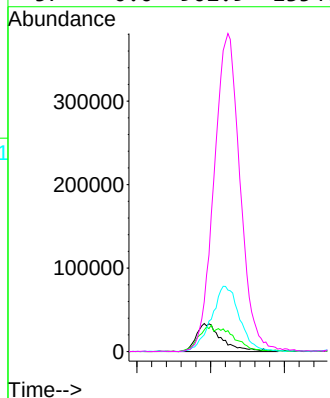
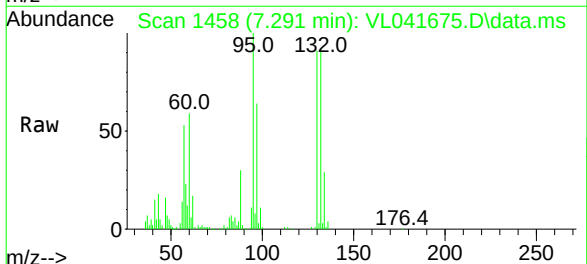
Manual Integrations  
APPROVED

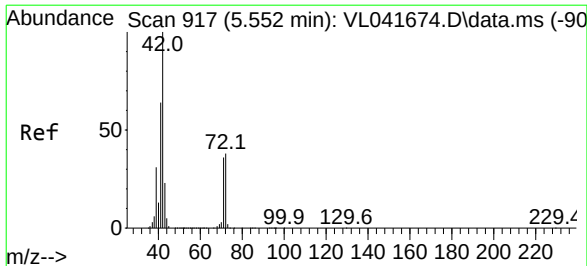
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#40  
1,4-Dioxane  
Concen: 2.365 ppbv m  
RT: 7.291 min Scan# 1458  
Delta R.T. 0.010 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 88 Resp: 82194  
Ion Ratio Lower Upper  
88 100  
58 0.0 101.4 152.2#  
43 0.0 208.0 312.0#  
57 0.0 902.9 1354.3#





#41

Tetrahydrofuran

Concen: 2.173 ppbv

RT: 5.561 min Scan# 92

Delta R.T. 0.010 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

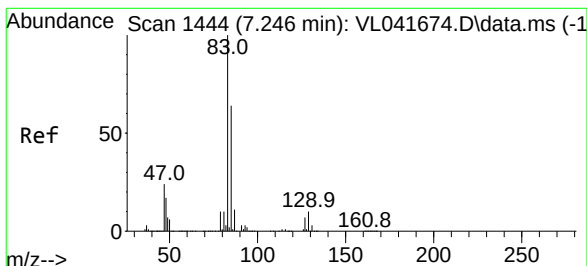
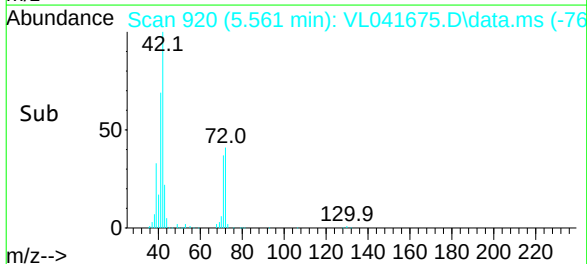
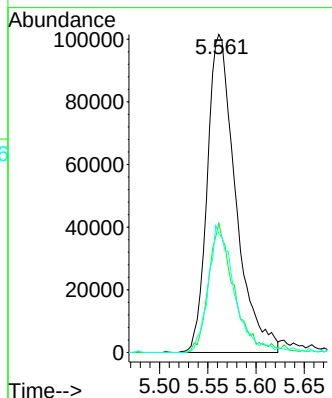
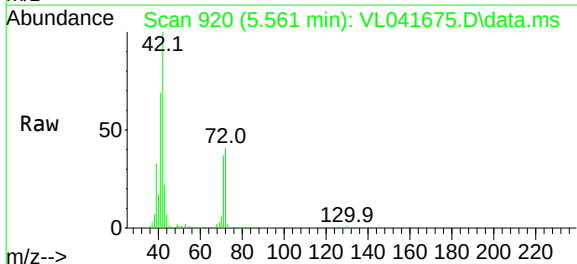
ClientSampleId :

VSTDICC002

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 42    | Resp: | 206889 |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 72       | 37.7  | 29.8  | 44.6   |
| 71       | 37.8  | 29.4  | 44.2   |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#42

Bromodichloromethane

Concen: 2.116 ppbv

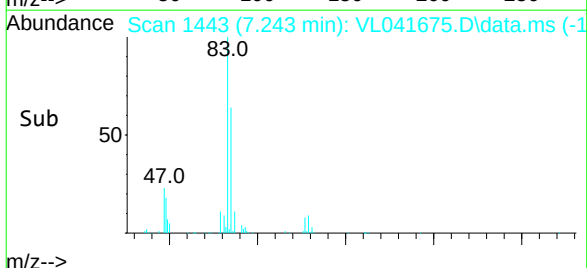
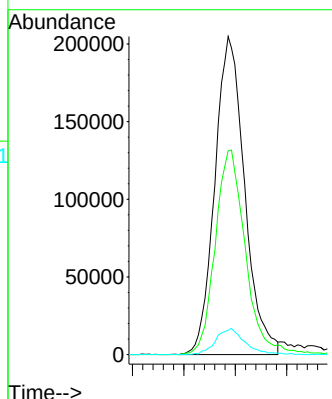
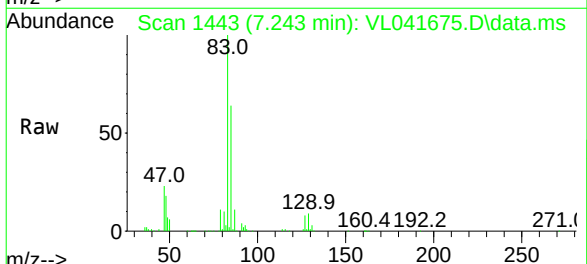
RT: 7.243 min Scan# 1443

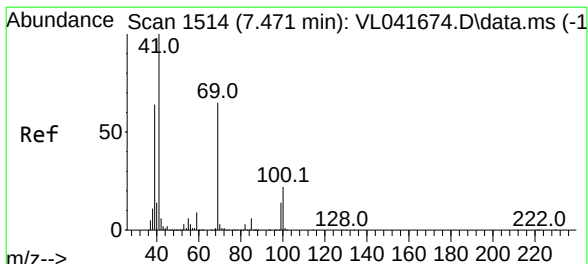
Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

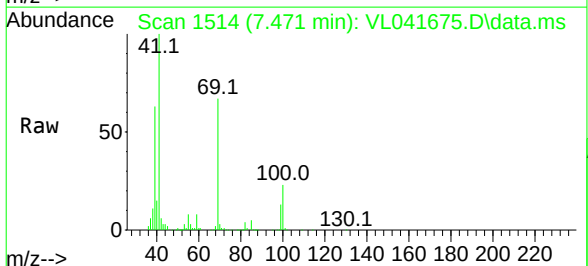
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 411846 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.1  | 51.2  | 76.8   |
| 127      | 7.7   | 6.0   | 9.0    |





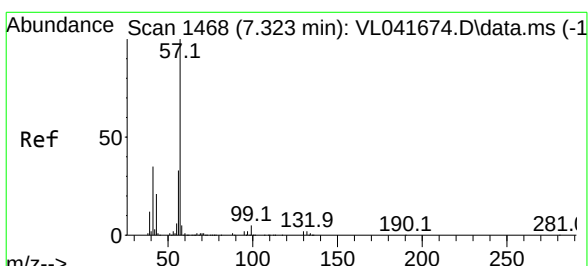
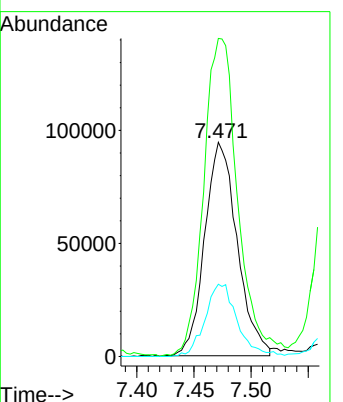
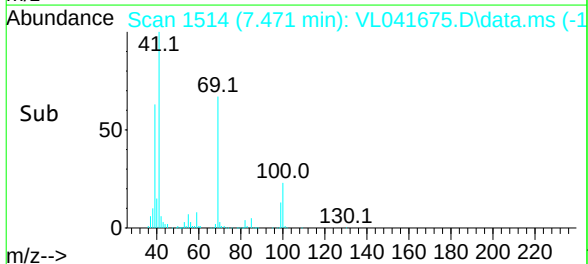
#43  
Methyl Methacrylate  
Concen: 2.140 ppbv  
RT: 7.471 min Scan# 1514  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument : MSVOA\_L  
ClientSampleId : VSTDICC002

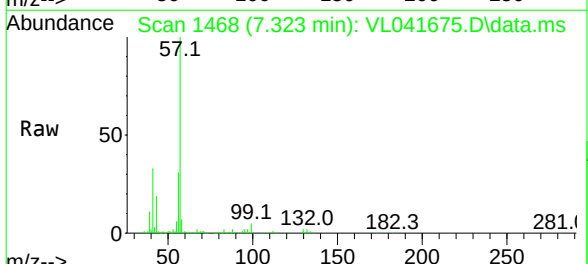


|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 186557 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 157.8 | 119.8 | 179.6  |
| 100      | 33.6  | 27.3  | 40.9   |

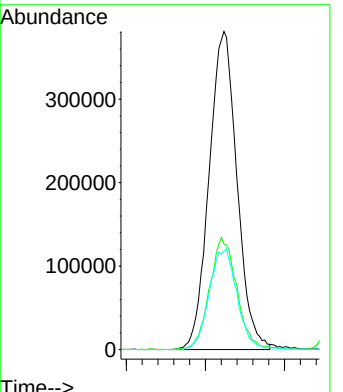
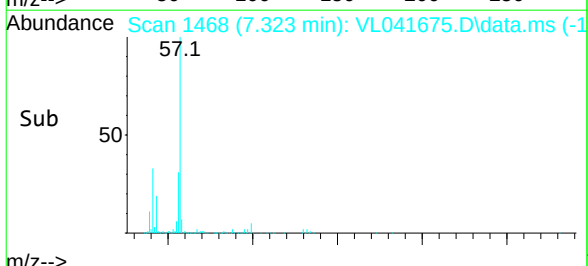
Manual Integrations  
**APPROVED**  
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

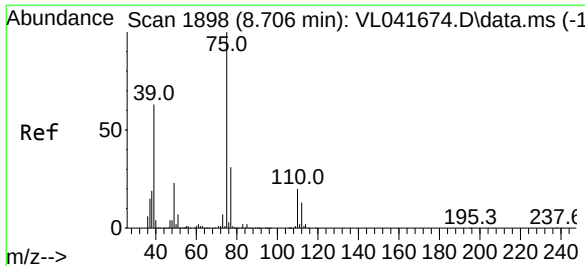


#44  
2,2,4-Trimethylpentane  
Concen: 2.217 ppbv  
RT: 7.323 min Scan# 1468  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55



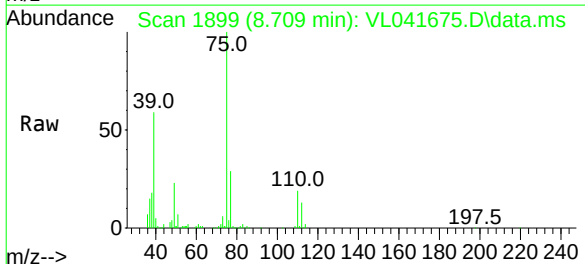
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 932386 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 34.6  | 27.0  | 40.6   |
| 56       | 31.8  | 25.8  | 38.6   |





#45  
t-1,3-Dichloropropene  
Concen: 1.929 ppbv  
RT: 8.709 min Scan# 1898  
Delta R.T. 0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

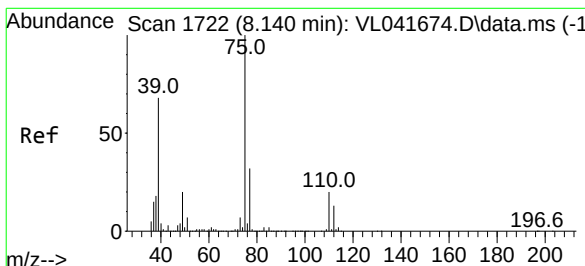
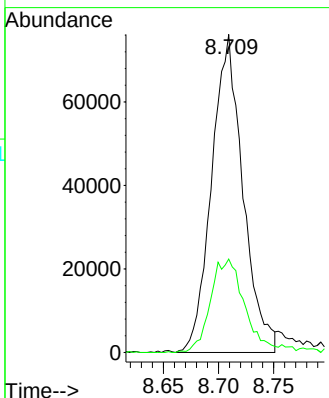
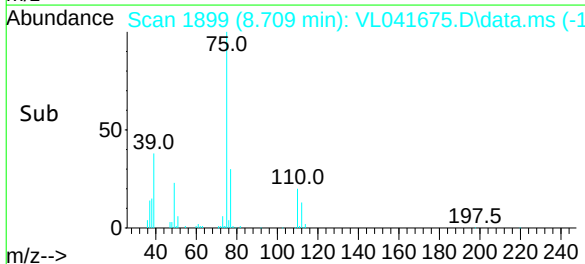
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



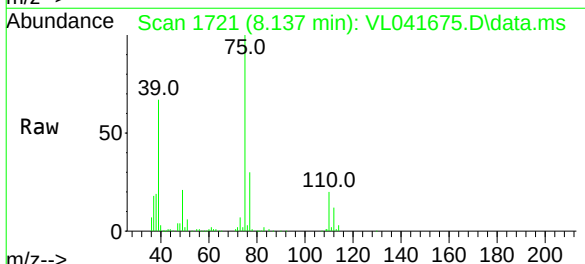
Tgt Ion: 75 Resp: 150360  
Ion Ratio Lower Upper  
75 100  
77 29.4 24.7 37.1

Manual Integrations  
APPROVED

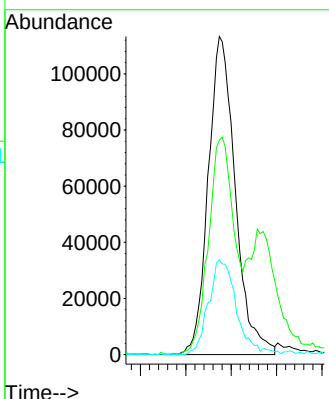
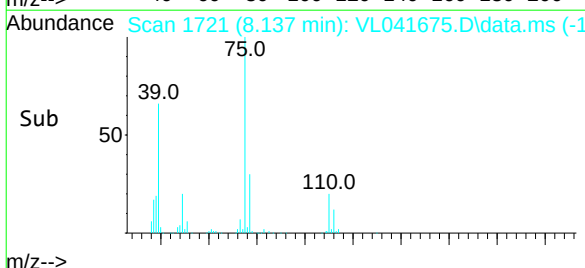
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

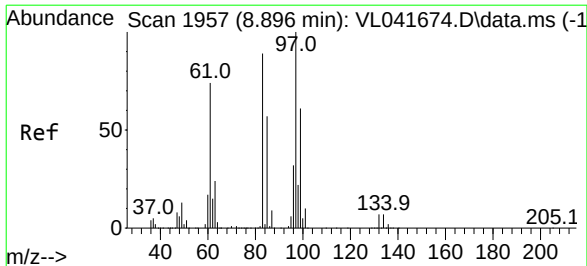


#46  
cis-1,3-Dichloropropene  
Concen: 2.069 ppbv  
RT: 8.137 min Scan# 1721  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55



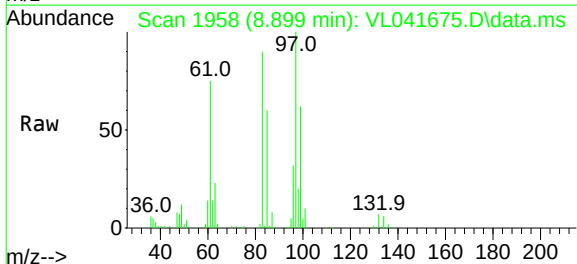
Tgt Ion: 75 Resp: 234294  
Ion Ratio Lower Upper  
75 100  
39 67.0 54.1 81.1  
77 29.8 25.3 37.9





#47  
1,1,2-Trichloroethane  
Concen: 2.061 ppbv m  
RT: 8.899 min Scan# 1957  
Delta R.T. 0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

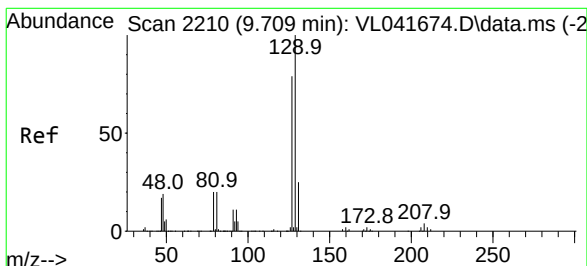
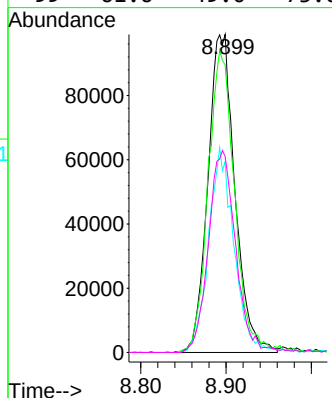
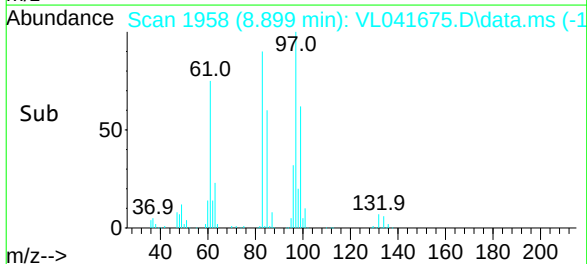
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion: 97 Resp: 218012  
Ion Ratio Lower Upper  
97 100  
83 90.4 71.0 106.6  
85 60.0 45.4 68.2  
99 61.6 49.0 73.6

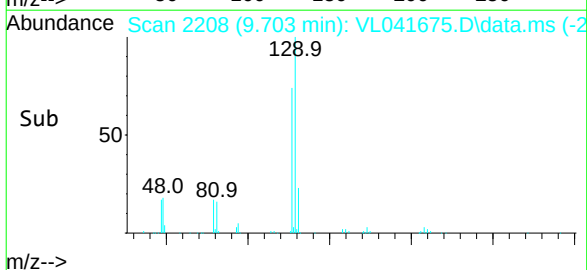
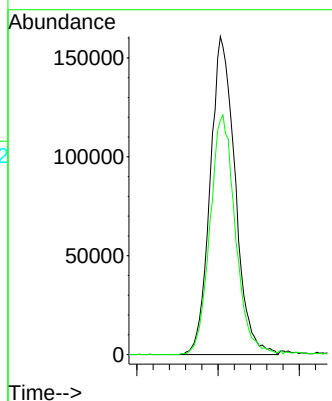
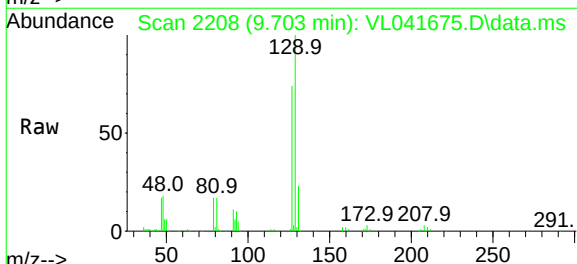
Manual Integrations  
APPROVED

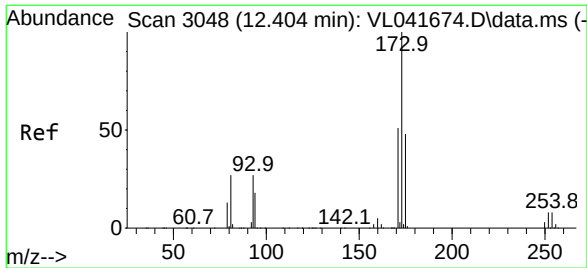
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#48  
Dibromochloromethane  
Concen: 2.121 ppbv  
RT: 9.703 min Scan# 2208  
Delta R.T. -0.006 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

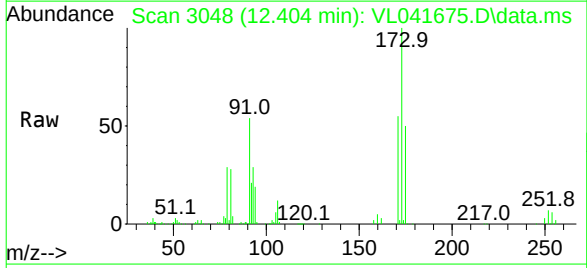
Tgt Ion:129 Resp: 342372  
Ion Ratio Lower Upper  
129 100  
127 77.3 39.1 117.2





#49  
Bromoform  
Concen: 2.080 ppbv  
RT: 12.404 min Scan# 3048  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

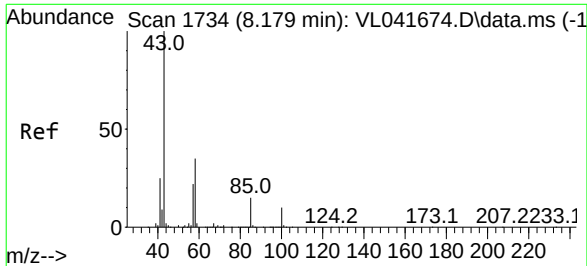
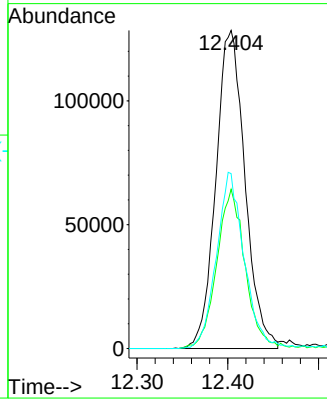
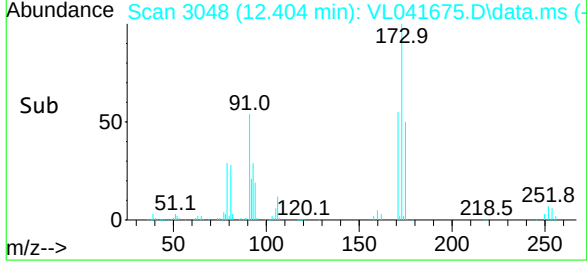
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



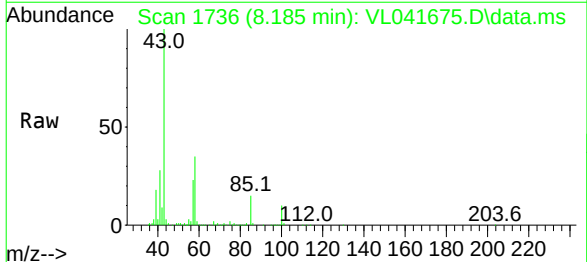
Tgt Ion: 173 Resp: 286412  
Ion Ratio Lower Upper  
173 100  
175 48.9 39.2 58.8  
171 53.2 41.7 62.5

Manual Integrations  
APPROVED

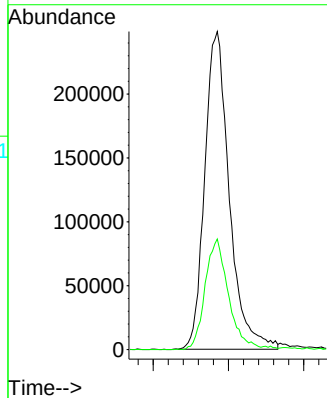
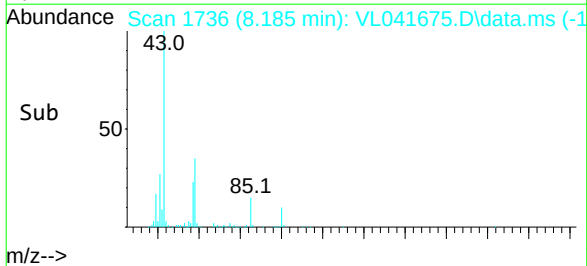
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

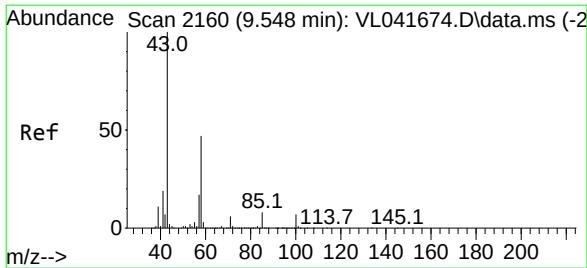


#50  
4-Methyl-2-Pentanone  
Concen: 2.198 ppbv  
RT: 8.185 min Scan# 1736  
Delta R.T. 0.006 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55



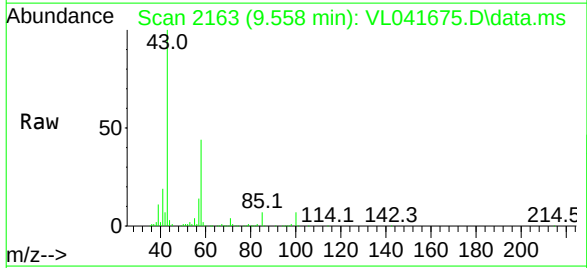
Tgt Ion: 43 Resp: 563317  
Ion Ratio Lower Upper  
43 100  
58 34.0 27.7 41.5





#51  
2-Hexanone  
Concen: 2.163 ppbv  
RT: 9.558 min Scan# 2160  
Delta R.T. 0.010 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

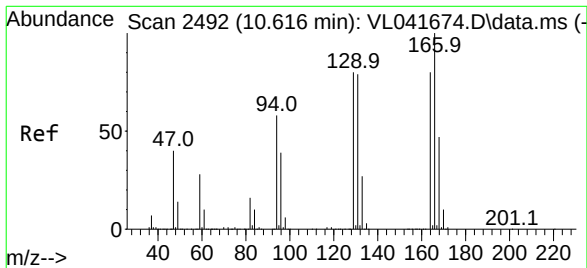
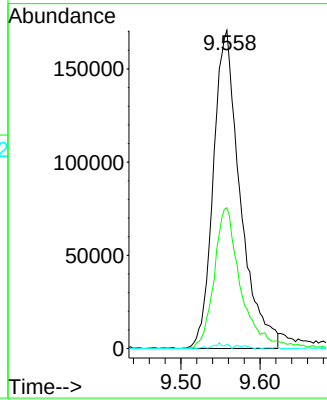
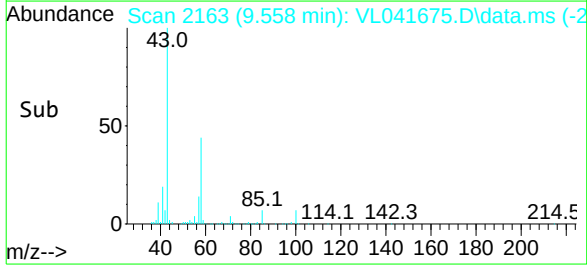
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



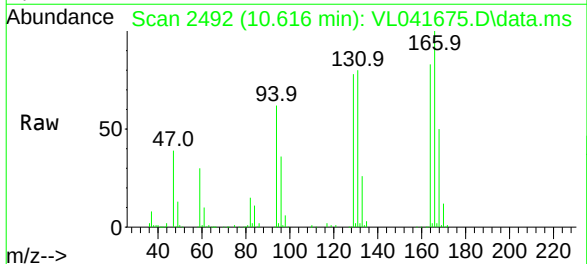
Tgt Ion: 43 Resp: 402751  
Ion Ratio Lower Upper  
43 100  
58 44.3 37.0 55.6  
98 0.8 0.6 0.8

Manual Integrations  
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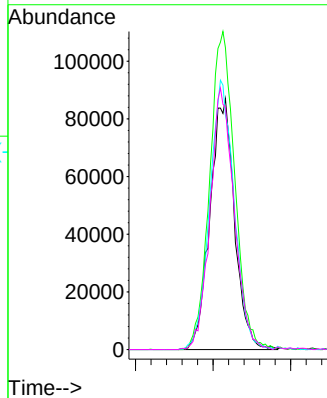
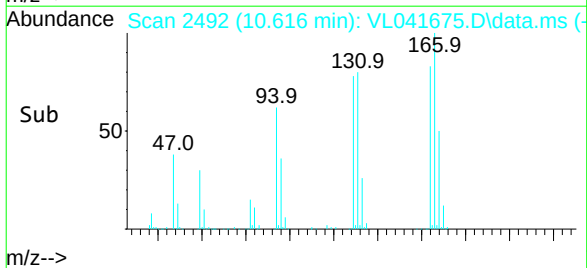
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

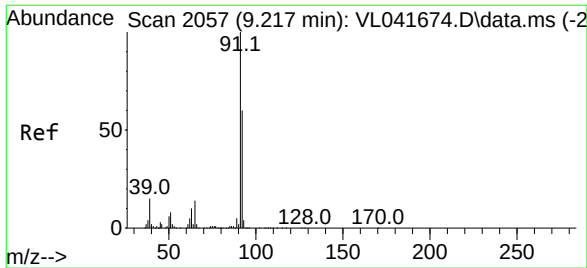


#52  
Tetrachloroethene  
Concen: 2.252 ppbv m  
RT: 10.616 min Scan# 2492  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55



Tgt Ion:164 Resp: 191108  
Ion Ratio Lower Upper  
164 100  
166 120.3 100.2 150.4  
129 93.4 79.7 119.5  
131 96.5 79.0 118.4





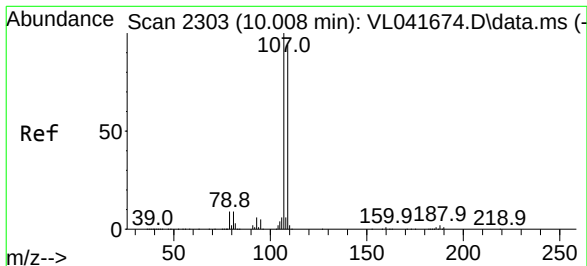
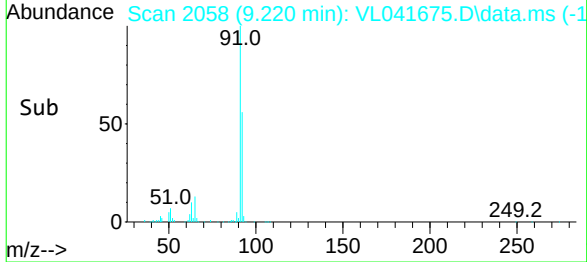
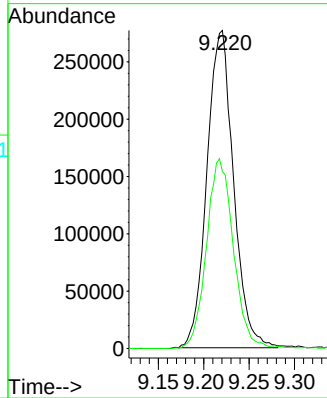
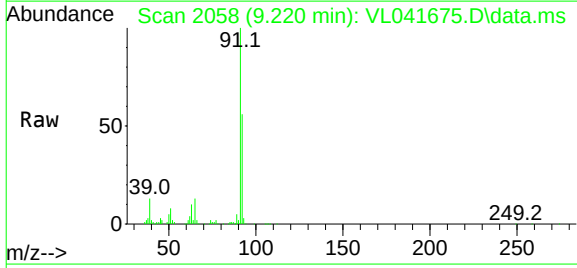
#53  
Toluene  
Concen: 2.161 ppbv  
RT: 9.220 min Scan# 2058  
Delta R.T. 0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 91 Resp: 564332  
Ion Ratio Lower Upper  
91 100  
92 61.0 49.0 73.4

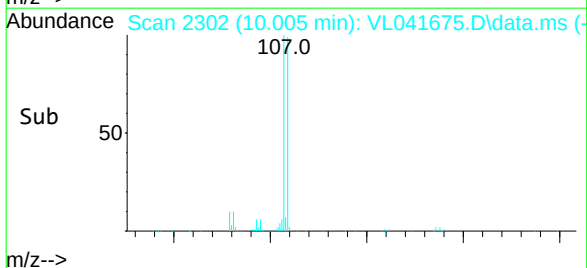
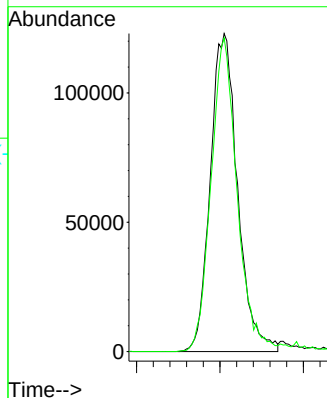
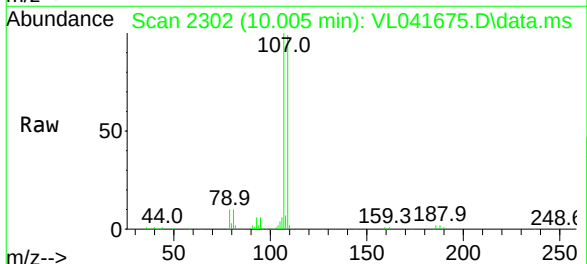
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

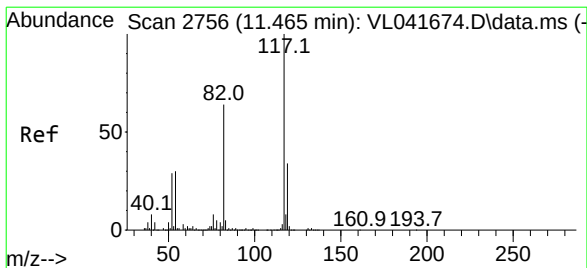


#54  
1,2-Dibromoethane  
Concen: 2.262 ppbv  
RT: 10.005 min Scan# 2302  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion:107 Resp: 279460  
Ion Ratio Lower Upper  
107 100  
109 98.4 74.9 112.3







#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.462 min Scan# 2756

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion:117 Resp: 3155486

Ion Ratio Lower Upper

117 100

82 60.0 49.8 74.8

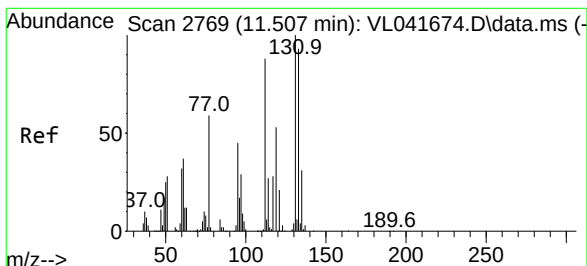
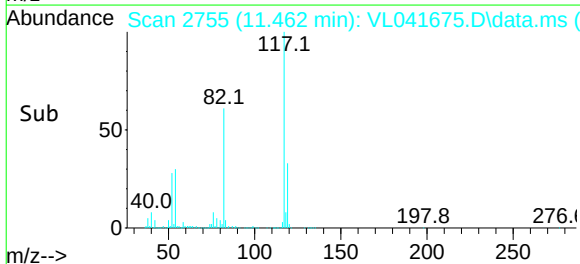
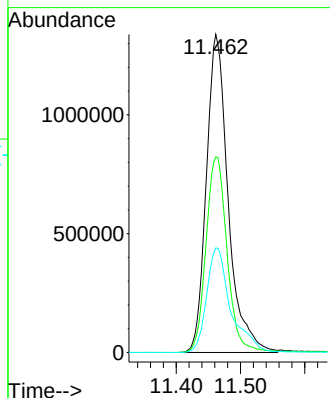
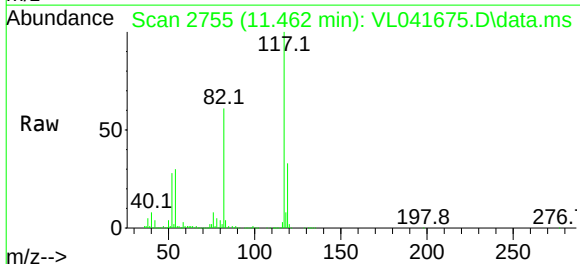
119 36.8 24.2 36.4#

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#56

1,1,1,2-Tetrachloroethane

Concen: 2.130 ppbv

RT: 11.507 min Scan# 2769

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

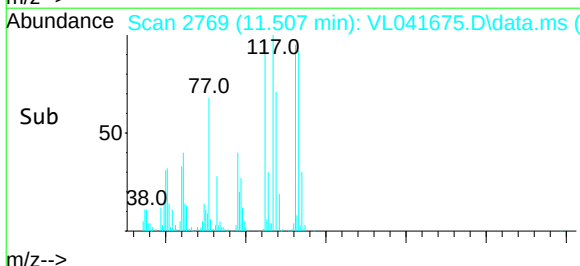
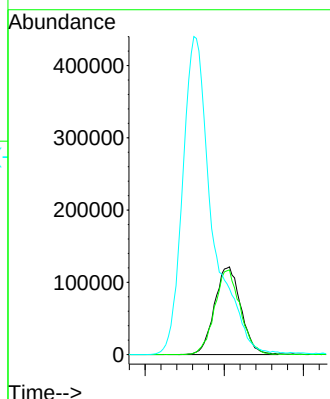
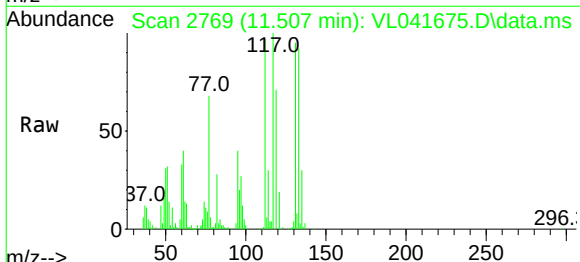
Tgt Ion:131 Resp: 279872

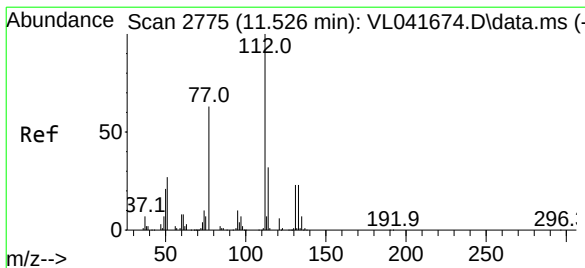
Ion Ratio Lower Upper

131 100

133 94.8 76.5 114.7

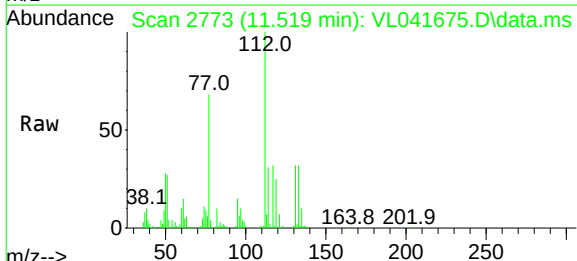
119 414.0 49.8 74.8#





#57  
Chlorobenzene  
Concen: 2.128 ppbv  
RT: 11.519 min Scan# 2775  
Delta R.T. -0.006 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

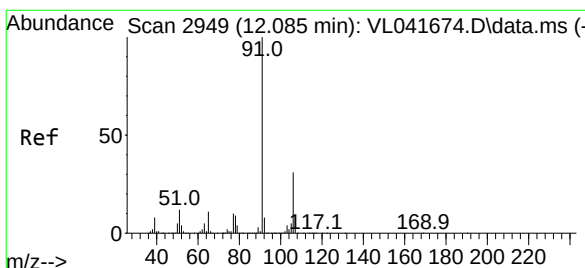
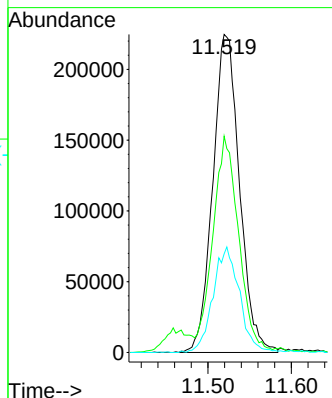
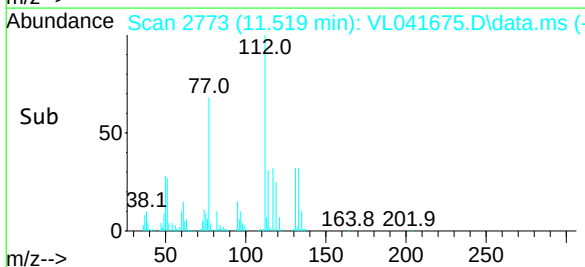
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion: 112 Resp: 500524  
Ion Ratio Lower Upper  
112 100  
77 66.6 51.4 77.2  
114 31.0 28.4 34.8

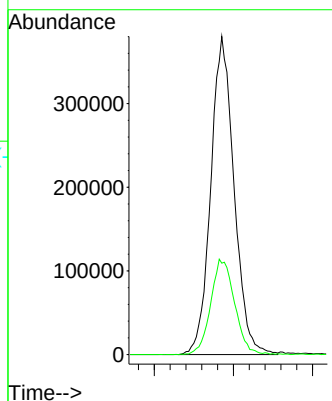
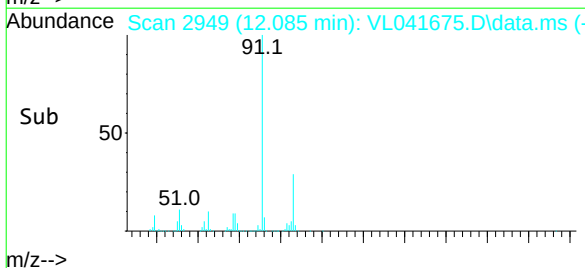
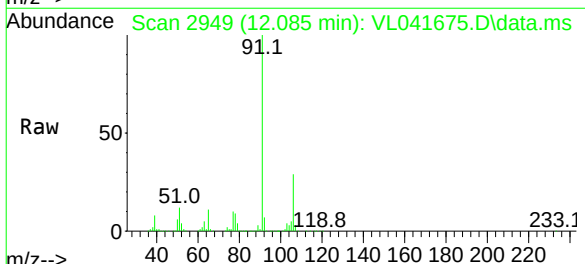
Manual Integrations  
APPROVED

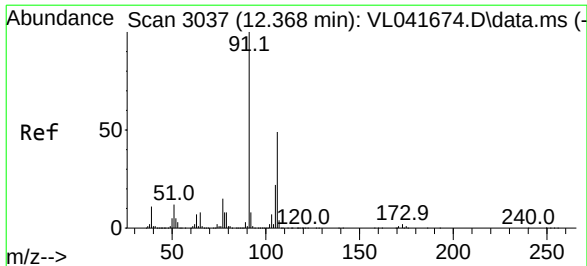
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#58  
Ethyl Benzene  
Concen: 2.225 ppbv  
RT: 12.085 min Scan# 2949  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 91 Resp: 777614  
Ion Ratio Lower Upper  
91 100  
106 28.7 24.9 37.3





#59

m/p-Xylene

Concen: 4.488 ppbv m

RT: 12.368 min Scan# 3037

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 91 Resp: 1403331

Ion Ratio Lower Upper

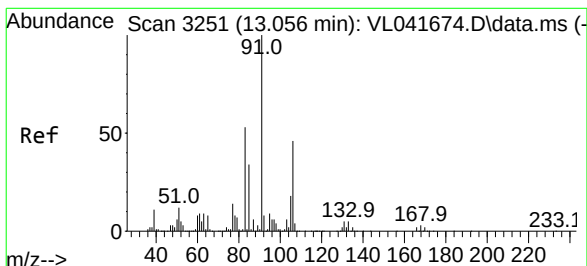
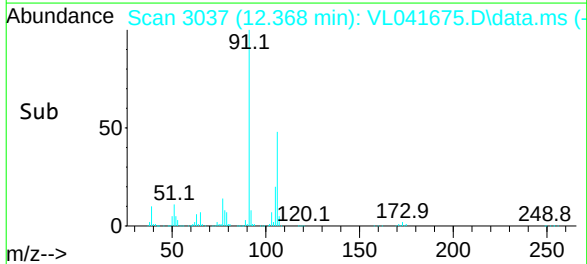
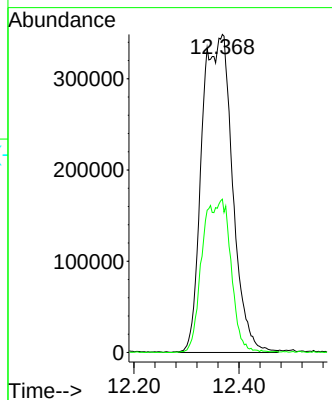
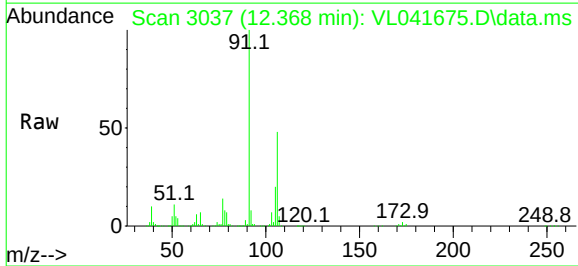
91 100

106 45.4 36.9 55.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#60

o-Xylene

Concen: 2.258 ppbv

RT: 13.053 min Scan# 3250

Delta R.T. -0.003 min

Lab File: VL041675.D

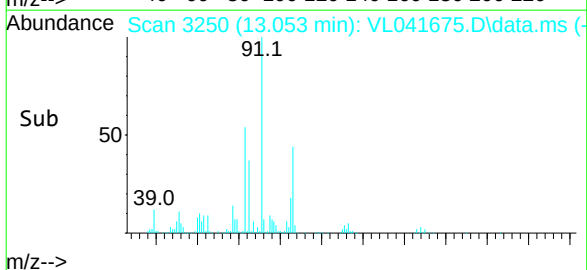
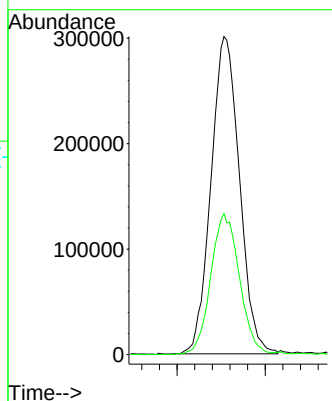
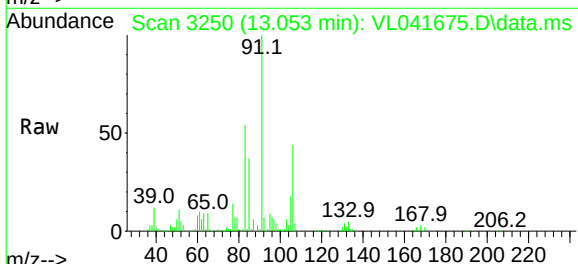
Acq: 7 Nov 2024 10:55

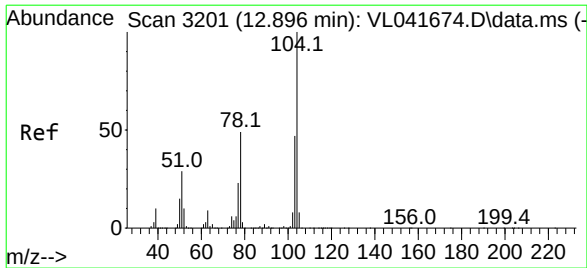
Tgt Ion: 91 Resp: 674003

Ion Ratio Lower Upper

91 100

106 45.4 23.2 69.6





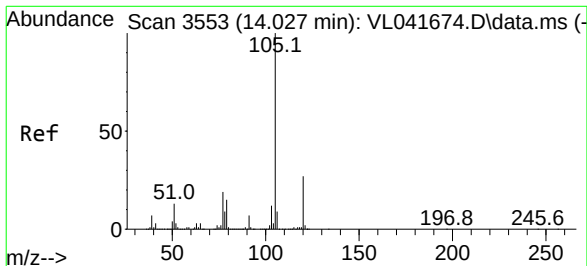
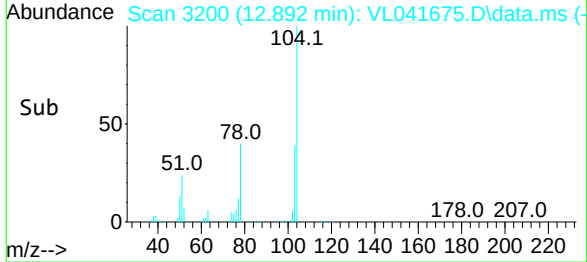
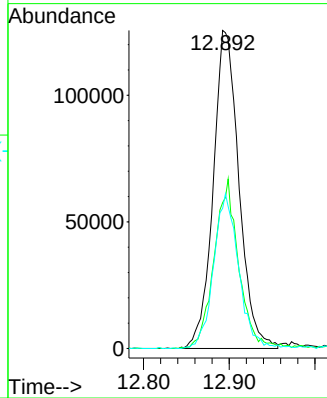
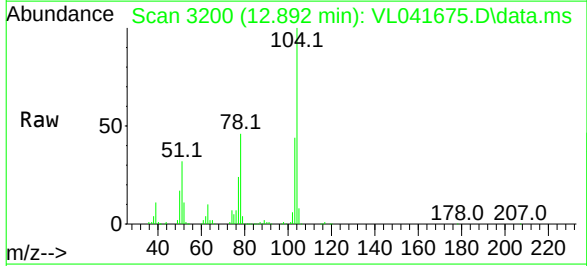
#61  
Styrene  
Concen: 2.133 ppbv  
RT: 12.892 min Scan# 3201  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion:104 Resp: 262837  
Ion Ratio Lower Upper  
104 100  
78 51.3 39.8 59.8  
103 47.7 37.4 56.0

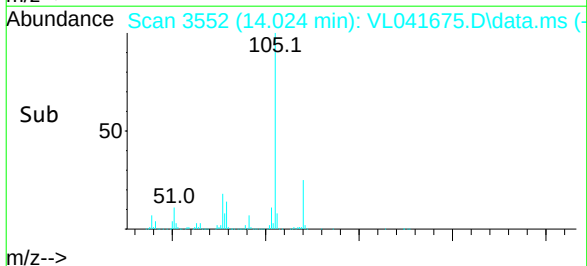
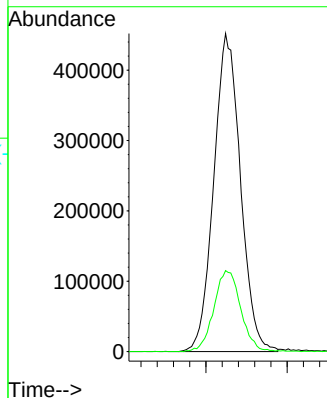
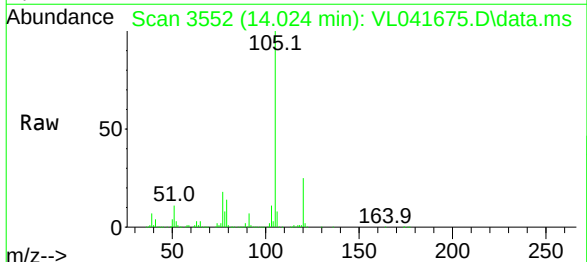
Manual Integrations  
APPROVED

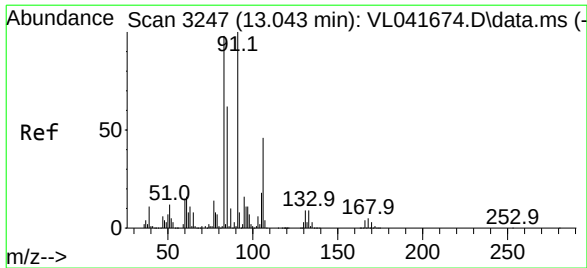
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#62  
Isopropylbenzene  
Concen: 2.236 ppbv  
RT: 14.024 min Scan# 3552  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion:105 Resp: 1030511  
Ion Ratio Lower Upper  
105 100  
120 25.8 21.1 31.7





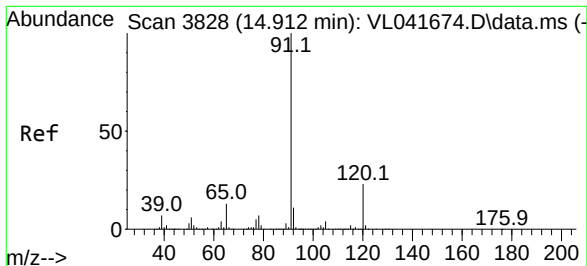
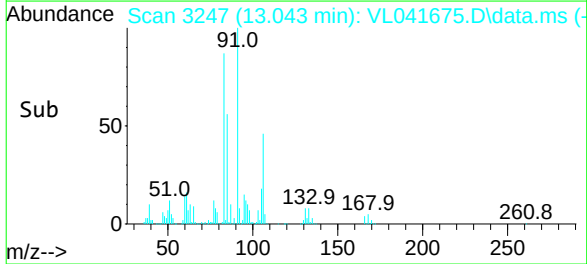
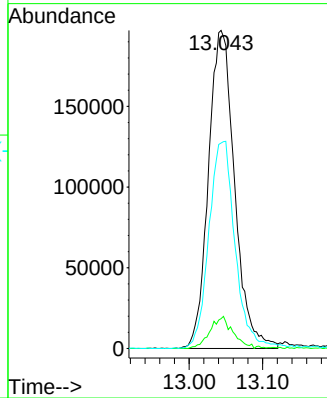
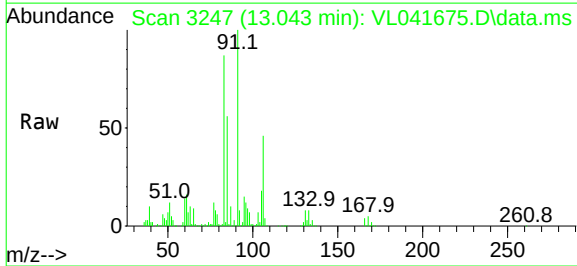
#63  
1,1,2,2-Tetrachloroethane  
Concen: 2.245 ppbv  
RT: 13.043 min Scan# 3247  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

| Tgt Ion | 83    | Resp  | 488021 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 83      | 100   |       |        |
| 131     | 8.9   | 4.8   | 14.3   |
| 85      | 66.1  | 32.6  | 98.0   |

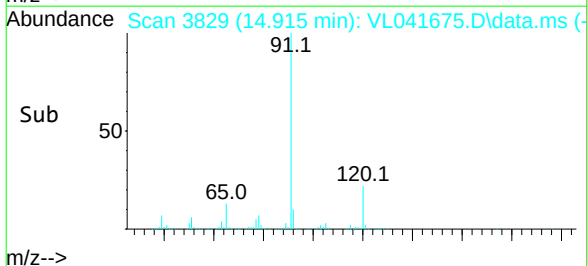
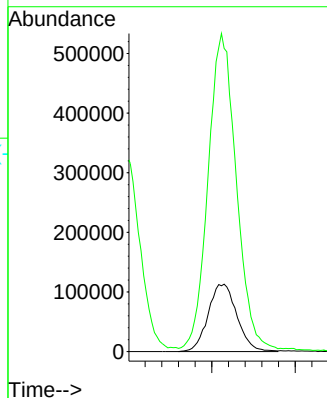
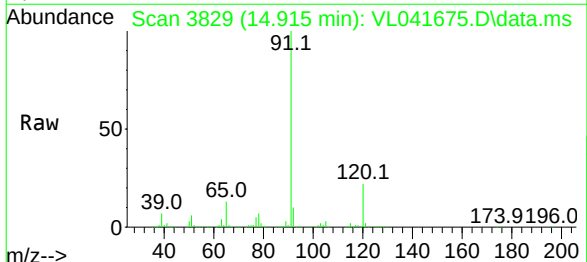
Manual Integrations  
APPROVED

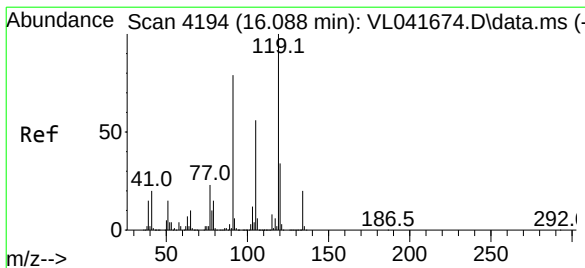
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#64  
n-propylbenzene  
Concen: 2.251 ppbv  
RT: 14.915 min Scan# 3829  
Delta R.T. 0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

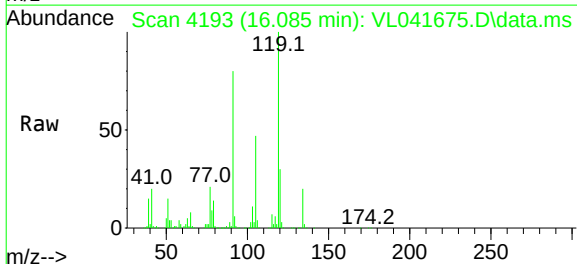
| Tgt Ion | 120   | Resp  | 271271 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 120     | 100   |       |        |
| 91      | 469.1 | 362.4 | 543.6  |





#65  
tert-Butylbenzene  
Concen: 2.290 ppbv  
RT: 16.085 min Scan# 4194  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

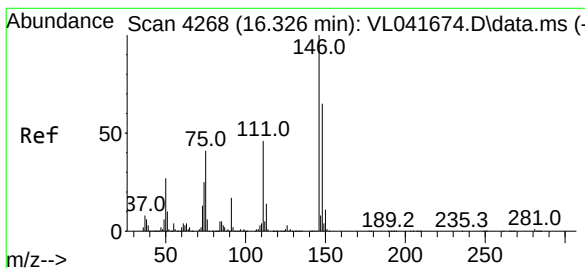
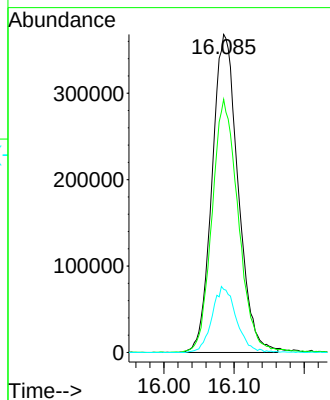
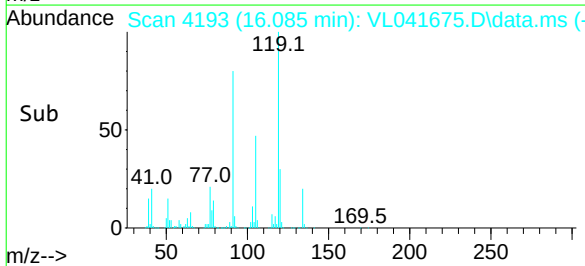
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



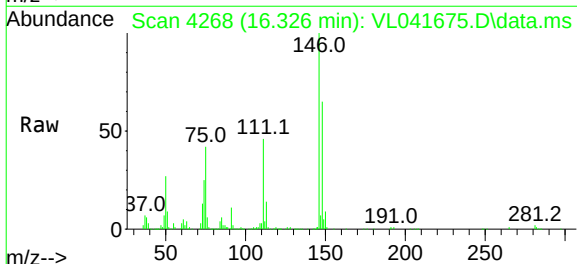
Tgt Ion: 119 Resp: 948395  
Ion Ratio Lower Upper  
119 100  
91 81.0 64.3 96.5  
134 19.5 15.8 23.8

Manual Integrations  
APPROVED

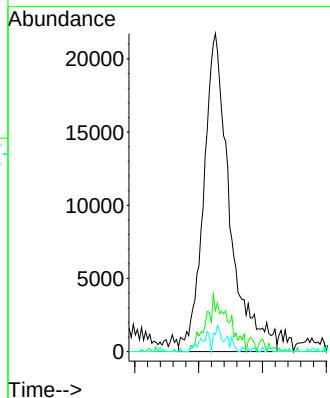
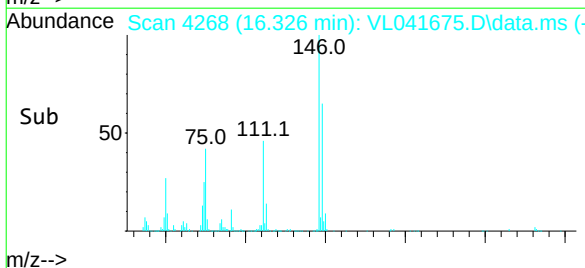
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

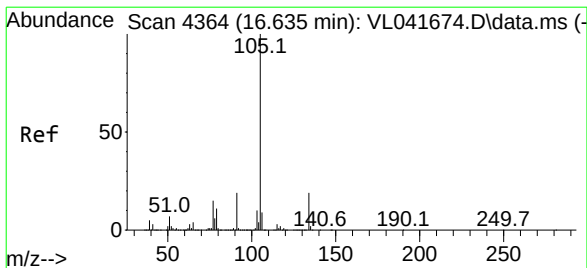


#66  
Benzyl Chloride  
Concen: 2.072 ppbv m  
RT: 16.326 min Scan# 4268  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55



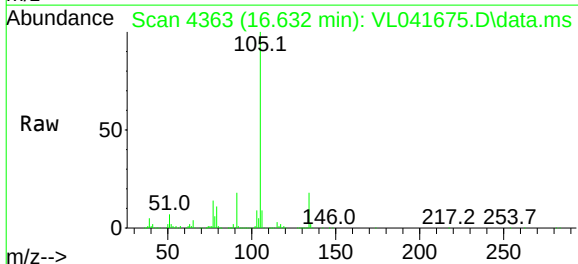
Tgt Ion: 91 Resp: 61799  
Ion Ratio Lower Upper  
91 100  
126 16.2 13.8 20.6  
128 5.9 4.3 6.5





#67  
sec-Butylbenzene  
Concen: 2.312 ppbv  
RT: 16.632 min Scan# 4364  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

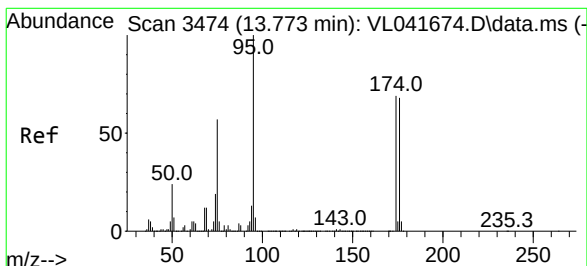
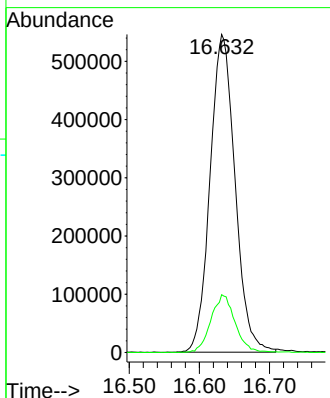
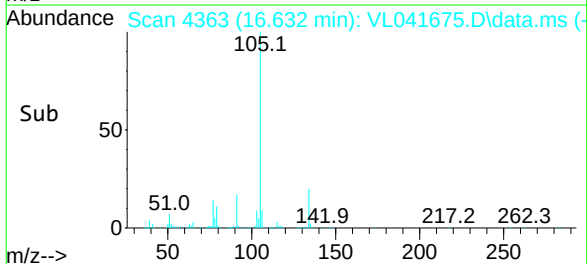
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



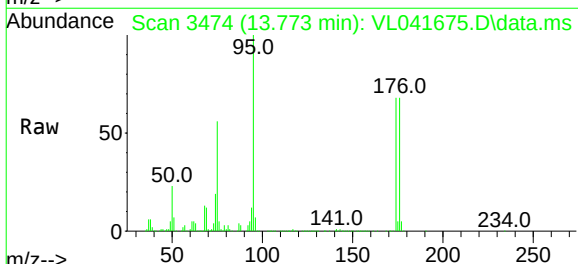
Tgt Ion: 105 Resp: 1349679  
Ion Ratio Lower Upper  
105 100  
134 17.8 14.6 22.0

Manual Integrations  
APPROVED

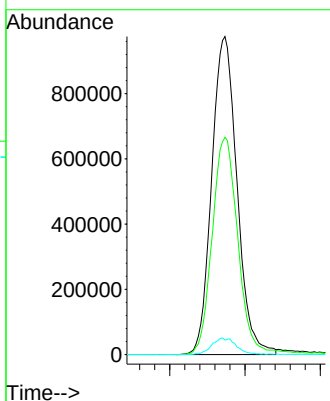
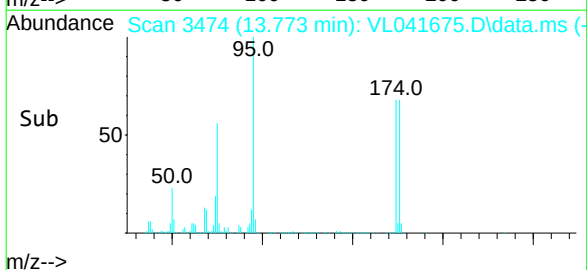
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

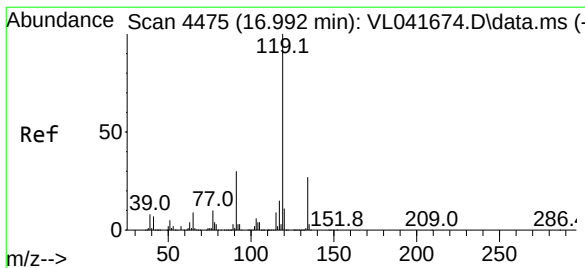


#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.764 ppbv  
RT: 13.773 min Scan# 3474  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55



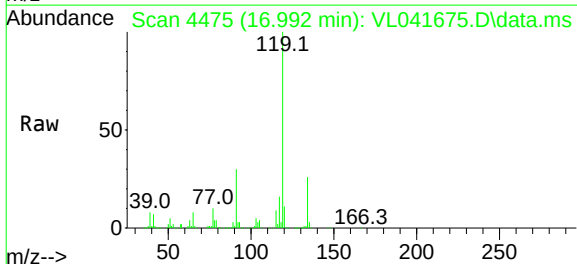
Tgt Ion: 95 Resp: 2278471  
Ion Ratio Lower Upper  
95 100  
174 70.4 55.6 83.4  
175 5.1 4.2 6.2





#69  
p-Isopropyltoluene  
Concen: 2.324 ppbv  
RT: 16.992 min Scan# 4475  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

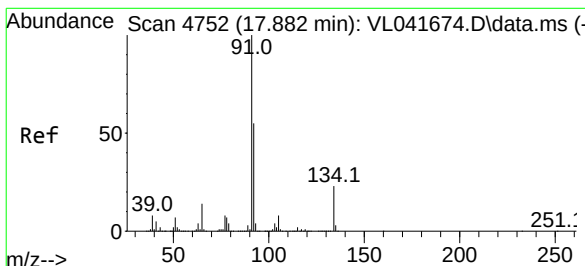
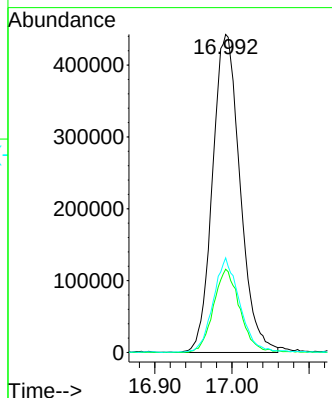
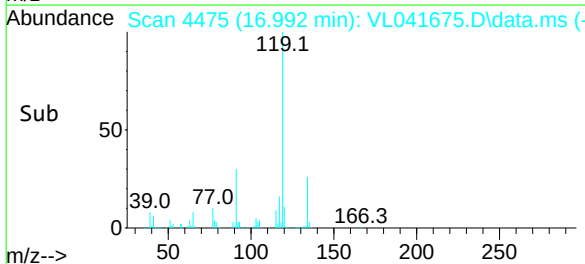
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



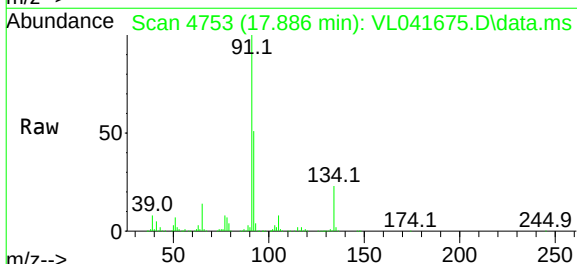
Tgt Ion: 119 Resp: 1097205  
Ion Ratio Lower Upper  
119 100  
134 25.4 20.8 31.2  
91 28.6 23.2 34.8

Manual Integrations  
APPROVED

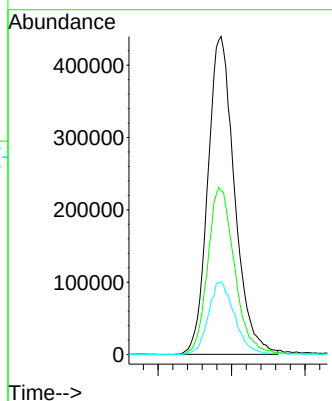
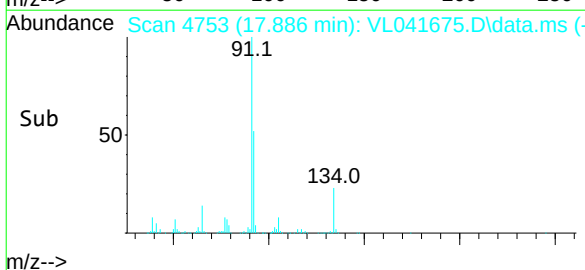
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



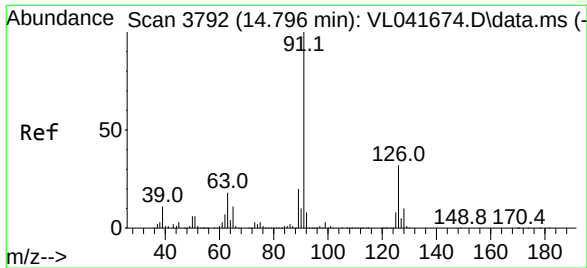
#70  
n-Butylbenzene  
Concen: 2.293 ppbv  
RT: 17.886 min Scan# 4753  
Delta R.T. 0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55



Tgt Ion: 91 Resp: 1109618  
Ion Ratio Lower Upper  
91 100  
92 53.4 43.3 64.9  
134 22.9 18.4 27.6

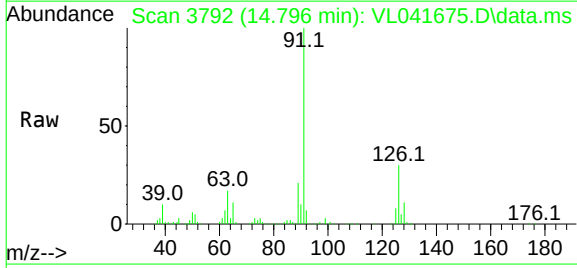






#71  
2-Chlorotoluene  
Concen: 2.238 ppbv  
RT: 14.796 min Scan# 3792  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

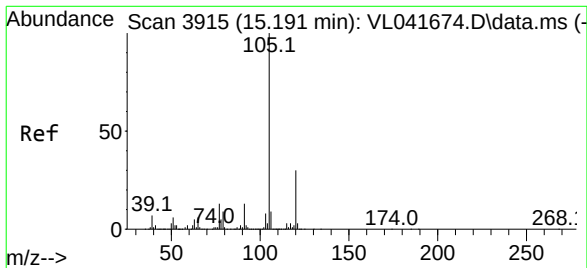
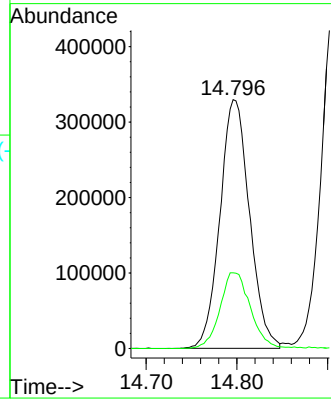
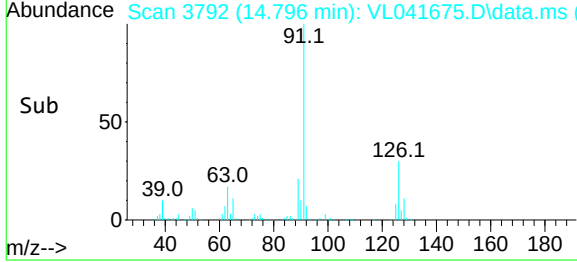
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



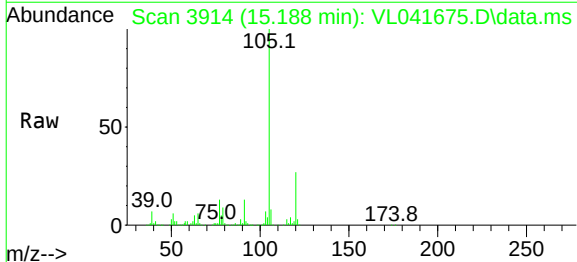
Tgt Ion: 91 Resp: 745884  
Ion Ratio Lower Upper  
91 100  
126 31.7 12.8 51.0

Manual Integrations  
APPROVED

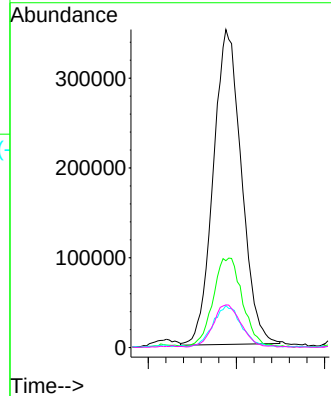
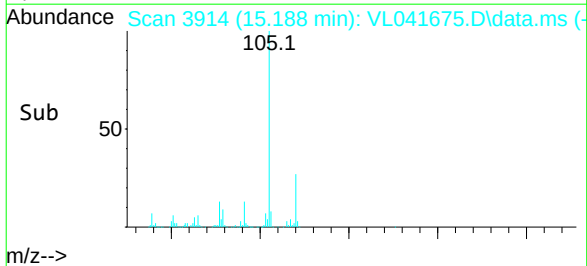
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

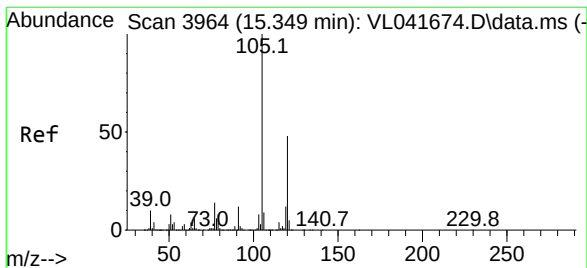


#72  
4-Ethyltoluene  
Concen: 2.244 ppbv  
RT: 15.188 min Scan# 3914  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55



Tgt Ion:105 Resp: 777952  
Ion Ratio Lower Upper  
105 100  
120 31.1 25.0 37.4  
91 13.5 10.6 15.8  
77 14.0 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 2.274 ppbv

RT: 15.346 min Scan# 39

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion:105 Resp: 691387

Ion Ratio Lower Upper

105 100

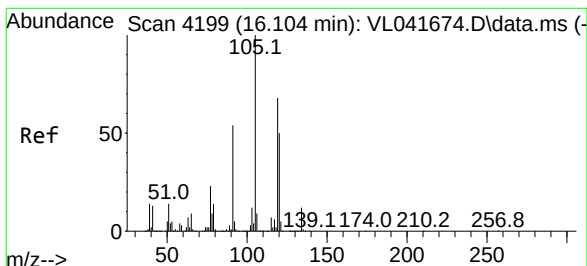
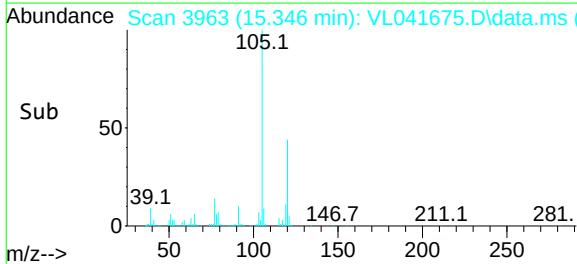
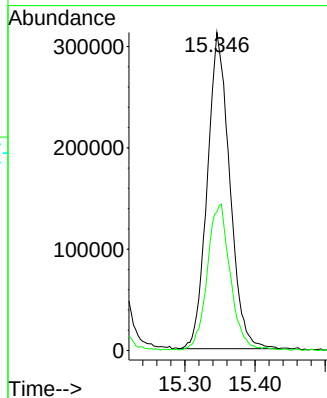
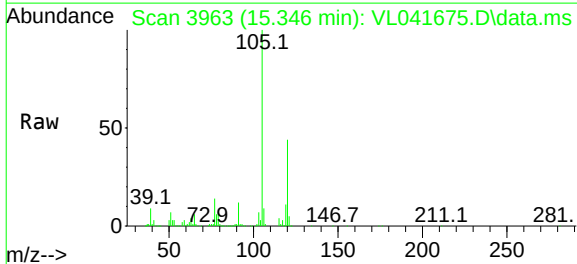
120 43.6 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#74

1,2,4-Trimethylbenzene

Concen: 2.252 ppbv

RT: 16.101 min Scan# 4198

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Tgt Ion:105 Resp: 796450

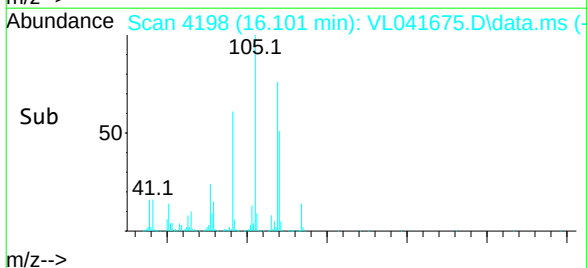
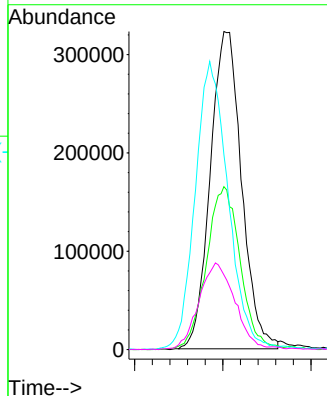
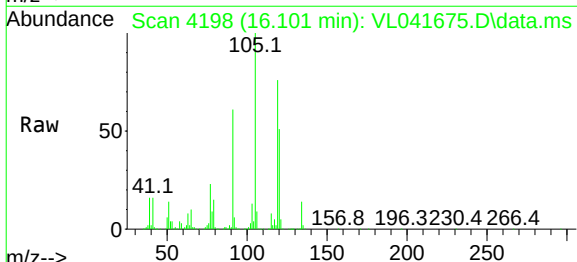
Ion Ratio Lower Upper

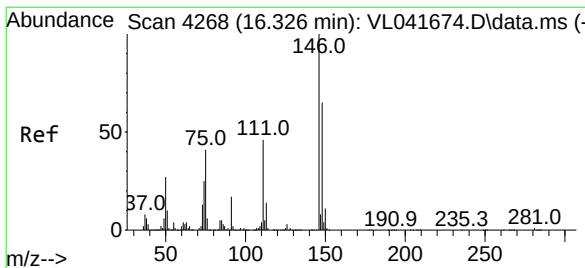
105 100

120 50.3 39.8 59.8

91 60.5 43.2 64.8

77 22.8 18.5 27.7





#75

1,3-Dichlorobenzene

Concen: 2.167 ppbv

RT: 16.329 min Scan# 4268

Delta R.T. 0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

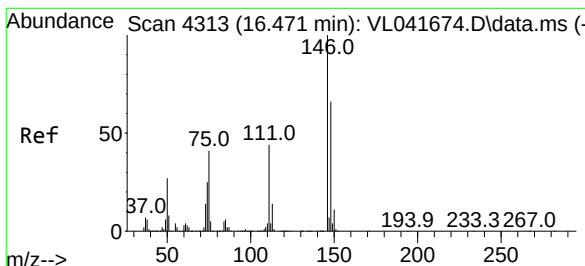
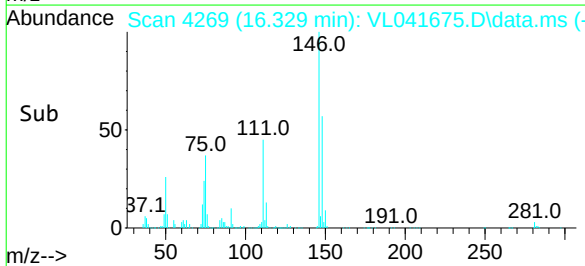
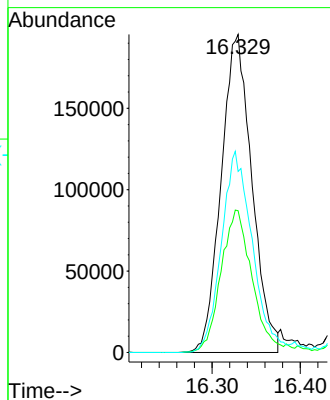
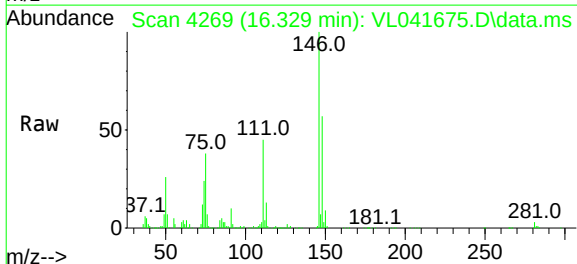
ClientSampleId :

VSTDICC002

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 473241 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 46.4  | 22.8  | 68.3   |
| 148       | 65.2  | 32.4  | 97.0   |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#76

1,4-Dichlorobenzene

Concen: 2.091 ppbv

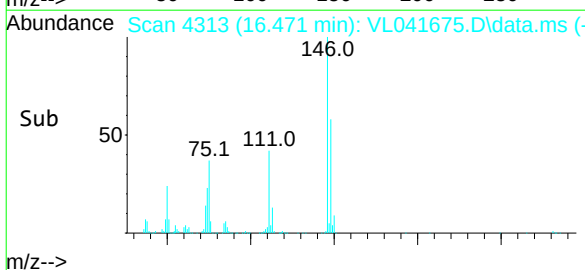
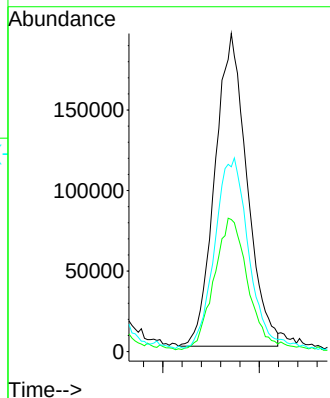
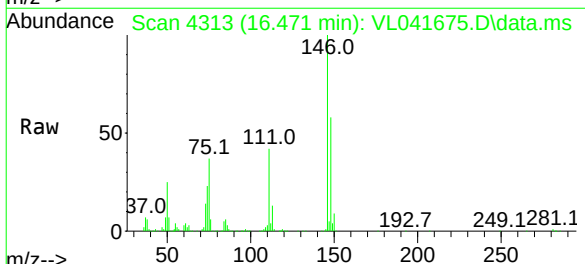
RT: 16.471 min Scan# 4313

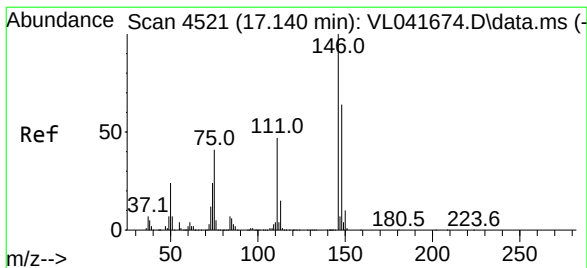
Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 448788 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 47.2  | 22.1  | 66.3   |
| 148       | 67.7  | 33.3  | 99.8   |





#77

1,2-Dichlorobenzene

Concen: 2.149 ppbv

RT: 17.140 min Scan# 4521

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

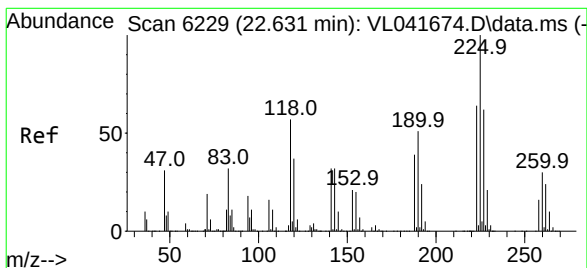
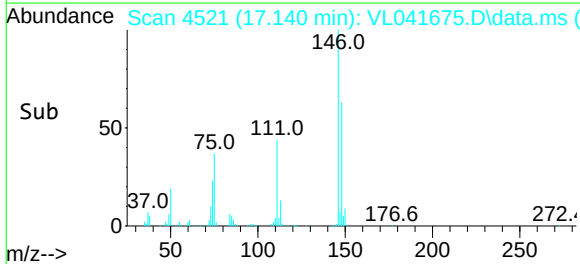
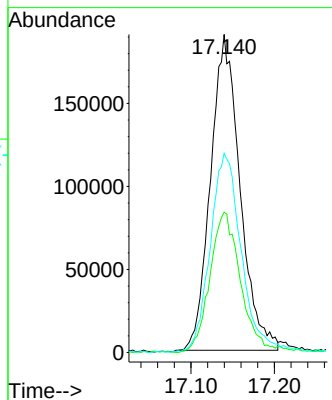
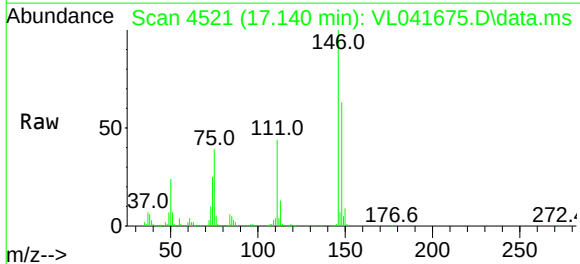
ClientSampleId :

VSTDICC002

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 466190 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 47.4  | 23.4  | 70.3   |
| 148       | 67.2  | 32.1  | 96.5   |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#78

Hexachloro-1,3-Butadiene

Concen: 2.144 ppbv

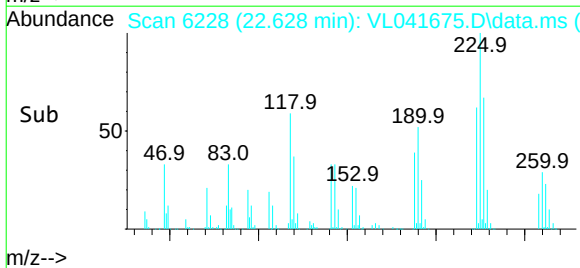
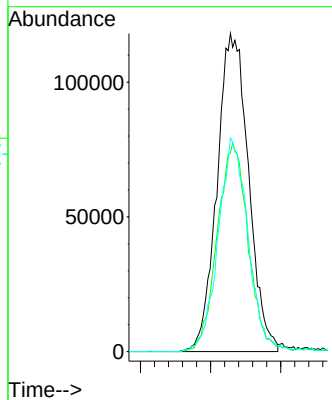
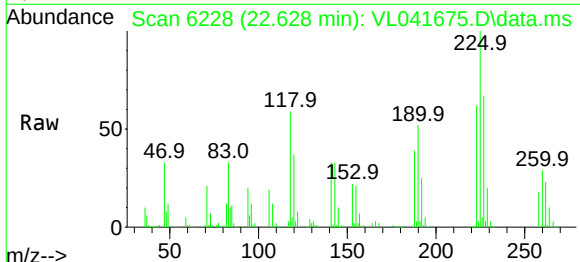
RT: 22.628 min Scan# 6228

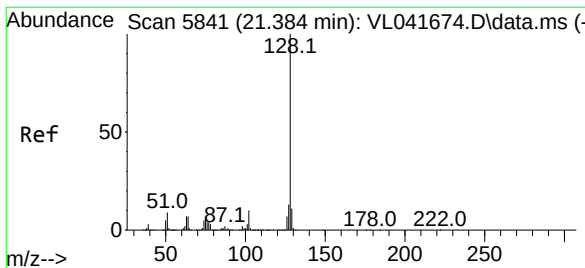
Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 367865 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 65.0  | 51.1  | 76.7   |
| 227       | 63.6  | 51.3  | 76.9   |





#79

Naphthalene

Concen: 2.478 ppbv

RT: 21.387 min Scan# 5841

Delta R.T. 0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion:128 Resp: 538842

Ion Ratio Lower Upper

128 100

127 11.7 10.5 15.7

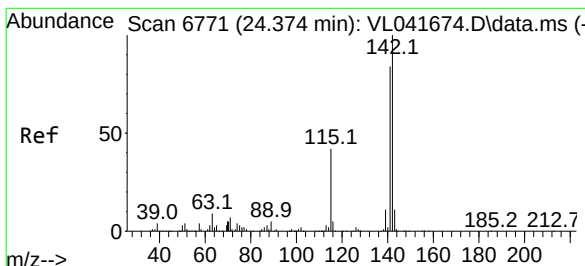
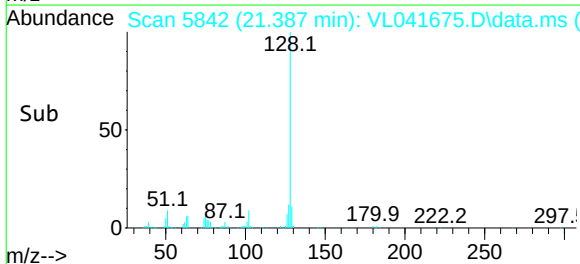
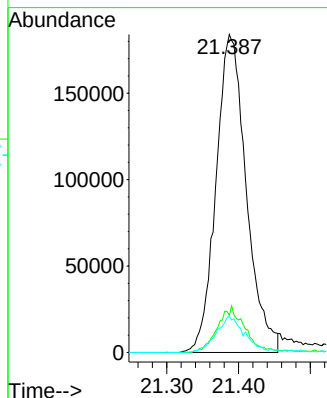
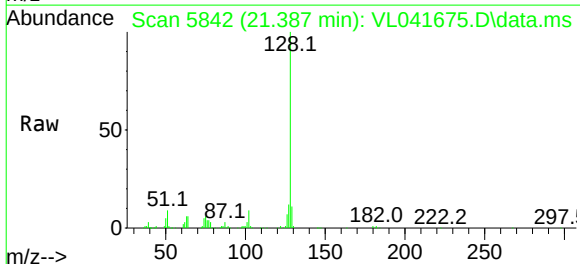
129 11.4 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#80

Naphthalene, 2-methyl-

Concen: 2.513 ppbv

RT: 24.381 min Scan# 6773

Delta R.T. 0.006 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

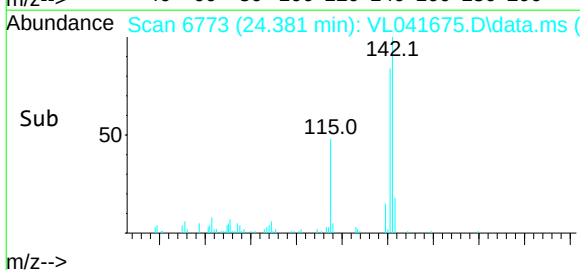
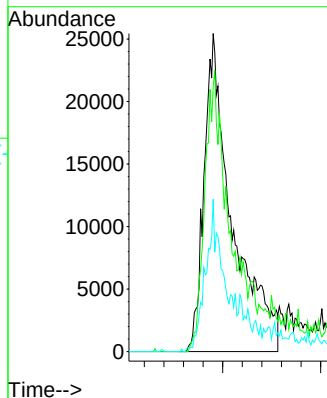
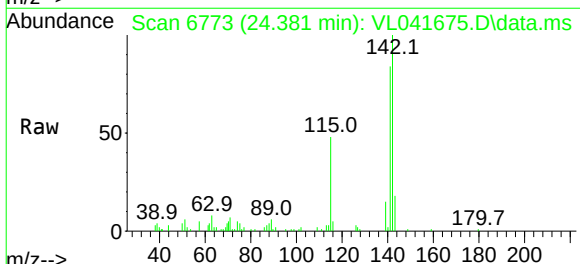
Tgt Ion:142 Resp: 101409

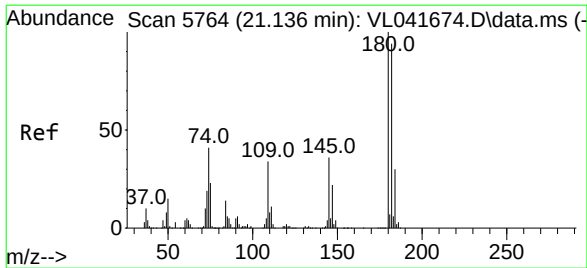
Ion Ratio Lower Upper

142 100

141 88.0 68.1 102.1

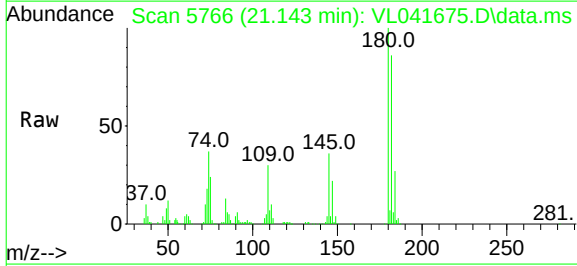
115 37.6 33.1 49.7





#81  
1,2,4-Trichlorobenzene  
Concen: 2.127 ppbv  
RT: 21.143 min Scan# 5766  
Delta R.T. 0.006 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

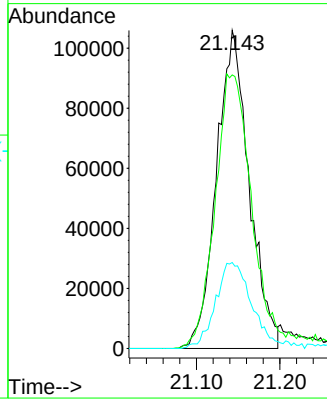
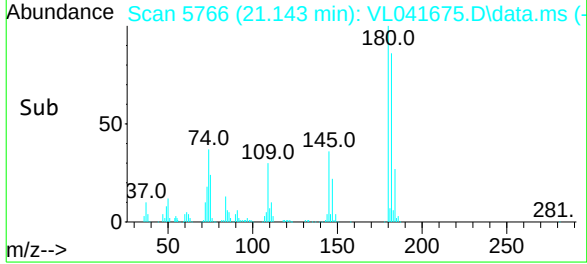
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 287687 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 99.1  | 78.2  | 117.2  |
| 184       | 30.6  | 25.0  | 37.4   |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041676.D  
 Acq On : 7 Nov 2024 11:34  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Nov 08 00:10:33 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.185  | 49   | 1184622  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.648  | 114  | 3332226  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.465 | 117  | 3067671  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 68) 1-Bromo-4-Fluorobenzene | 13.773 | 95    | 2285234  | 10.073   | ppbv       | 0.00 |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | = 100.700% |      |

|                               |       |     |        |       |        |        |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| Target Compounds              |       |     |        |       |        | Qvalue |
| 2) Dichlorodifluoromethane    | 2.726 | 85  | 181618 | 0.848 | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 2.671 | 51  | 164131 | 1.063 | ppbv   | 100    |
| 4) Chloromethane              | 2.812 | 50  | 86683  | 1.060 | ppbv   | 100    |
| 5) Vinyl Chloride             | 2.915 | 62  | 78147  | 1.055 | ppbv   | 100    |
| 6) Bromomethane               | 3.118 | 94  | 38811  | 0.995 | ppbv   | 89     |
| 7) Chloroethane               | 3.195 | 64  | 27451  | 1.023 | ppbv   | 94     |
| 8) Dichlorotetrafluoroethane  | 2.854 | 85  | 198669 | 1.039 | ppbv   | 99     |
| 9) Propene                    | 2.690 | 41  | 72231  | 1.074 | ppbv   | 95     |
| 10) Heptane                   | 7.574 | 43  | 148906 | 0.988 | ppbv   | 96     |
| 11) Trichlorofluoromethane    | 3.562 | 101 | 194775 | 1.044 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 4.063 | 101 | 141527 | 1.044 | ppbv   | 98     |
| 13) Ethanol                   | 3.256 | 45  | 3961   | 0.947 | ppbv # | 48     |
| 14) Bromoethene               | 3.359 | 108 | 55094  | 1.011 | ppbv # | 92     |
| 15) Acetone                   | 3.475 | 43  | 166255 | 1.140 | ppbv   | 99     |
| 16) 1,3-Butadiene             | 2.980 | 39  | 67777m | 0.927 | ppbv   |        |
| 17) tert-Butyl alcohol        | 3.883 | 59  | 153265 | 1.198 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 3.873 | 96  | 58180  | 0.979 | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.584 | 45  | 82398  | 1.168 | ppbv # | 91     |
| 20) Methylene Chloride        | 3.928 | 84  | 59394  | 1.107 | ppbv   | 96     |
| 21) Allyl Chloride            | 3.992 | 41  | 95568  | 1.061 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 4.446 | 96  | 60981m | 1.028 | ppbv   |        |
| 23) Vinyl Acetate             | 4.626 | 43  | 66087m | 0.964 | ppbv   |        |
| 24) 1,1-Dichloroethane        | 4.555 | 63  | 132214 | 1.002 | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.205 | 43  | 316814 | 1.050 | ppbv   | 98     |
| 26) Hexane                    | 5.208 | 57  | 122113 | 1.053 | ppbv   | 94     |
| 27) Carbon Disulfide          | 4.121 | 76  | 125113 | 0.961 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 4.587 | 73  | 79309  | 1.062 | ppbv   | 98     |
| 29) Chloroform                | 5.269 | 83  | 197891 | 1.034 | ppbv   | 100    |
| 30) Cyclohexane               | 6.597 | 84  | 88127  | 0.946 | ppbv   | 89     |
| 31) cis-1,2-Dichloroethene    | 5.073 | 61  | 115115 | 1.032 | ppbv   | 94     |
| 32) 1,1,1-Trichloroethane     | 5.996 | 97  | 186425 | 1.063 | ppbv   | 100    |
| 34) 2-Butanone                | 4.790 | 43  | 166525 | 1.004 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 6.491 | 117 | 187475 | 1.064 | ppbv   | 96     |
| 36) Benzene                   | 6.369 | 78  | 250318 | 1.014 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 5.803 | 62  | 144449 | 1.037 | ppbv   | 100    |
| 38) Trichloroethene           | 7.288 | 130 | 96191  | 1.010 | ppbv   | 93     |
| 39) 1,2-Dichloropropane       | 7.069 | 63  | 99780  | 1.023 | ppbv   | 91     |
| 40) 1,4-Dioxane               | 7.311 | 88  | 35039m | 1.014 | ppbv   |        |
| 41) Tetrahydrofuran           | 5.571 | 42  | 93643  | 0.989 | ppbv   | 99     |
| 42) Bromodichloromethane      | 7.246 | 83  | 188568 | 0.974 | ppbv   | 100    |
| 43) Methyl Methacrylate       | 7.478 | 69  | 78902  | 0.910 | ppbv   | 90     |
| 44) 2,2,4-Trimethylpentane    | 7.327 | 57  | 435343 | 1.041 | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 8.709 | 75  | 70088m | 0.904 | ppbv   |        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041676.D  
 Acq On : 7 Nov 2024 11:34  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:10:33 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.143  | 75   | 101425   | 0.901 | ppbv   | 95       |
| 47) 1,1,2-Trichloroethane     | 8.896  | 97   | 104883   | 0.997 | ppbv   | 92       |
| 48) Dibromochloromethane      | 9.709  | 129  | 152757   | 0.952 | ppbv   | 99       |
| 49) Bromoform                 | 12.400 | 173  | 127488m  | 0.931 | ppbv   |          |
| 50) 4-Methyl-2-Pentanone      | 8.188  | 43   | 250885   | 0.985 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.571  | 43   | 165158   | 0.892 | ppbv # | 100      |
| 52) Tetrachloroethene         | 10.610 | 164  | 92977    | 1.102 | ppbv   | 93       |
| 53) Toluene                   | 9.217  | 91   | 253501   | 0.976 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.008 | 107  | 122096   | 0.994 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 11.510 | 131  | 133283   | 1.043 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.523 | 112  | 239417   | 1.047 | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.089 | 91   | 334939   | 0.986 | ppbv   | 91       |
| 59) m/p-Xylene                | 12.368 | 91   | 625077m  | 2.056 | ppbv   |          |
| 60) o-Xylene                  | 13.053 | 91   | 293793   | 1.012 | ppbv   | 100      |
| 61) Styrene                   | 12.892 | 104  | 102947   | 0.859 | ppbv   | 96       |
| 62) Isopropylbenzene          | 14.031 | 105  | 468382   | 1.045 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.047 | 83   | 226867   | 1.074 | ppbv   | 97       |
| 64) n-propylbenzene           | 14.915 | 120  | 115677   | 0.987 | ppbv   | 82       |
| 65) tert-Butylbenzene         | 16.092 | 119  | 424019   | 1.053 | ppbv   | 98       |
| 66) Benzyl Chloride           | 16.326 | 91   | 26944m   | 0.929 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.638 | 105  | 596449   | 1.051 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 16.998 | 119  | 480893   | 1.048 | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.889 | 91   | 484367   | 1.030 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 14.799 | 91   | 331921   | 1.024 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.191 | 105  | 327541   | 0.972 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 15.352 | 105  | 290287   | 0.982 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene    | 16.111 | 105  | 360083   | 1.047 | ppbv # | 89       |
| 75) 1,3-Dichlorobenzene       | 16.326 | 146  | 218228   | 1.028 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.471 | 146  | 203100   | 0.973 | ppbv   | 95       |
| 77) 1,2-Dichlorobenzene       | 17.143 | 146  | 221404   | 1.050 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 22.632 | 225  | 190183m  | 1.140 | ppbv   |          |
| 79) Naphthalene               | 21.394 | 128  | 226301m  | 1.070 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 24.374 | 142  | 39140m   | 0.998 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.146 | 180  | 138641m  | 1.054 | ppbv   |          |

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



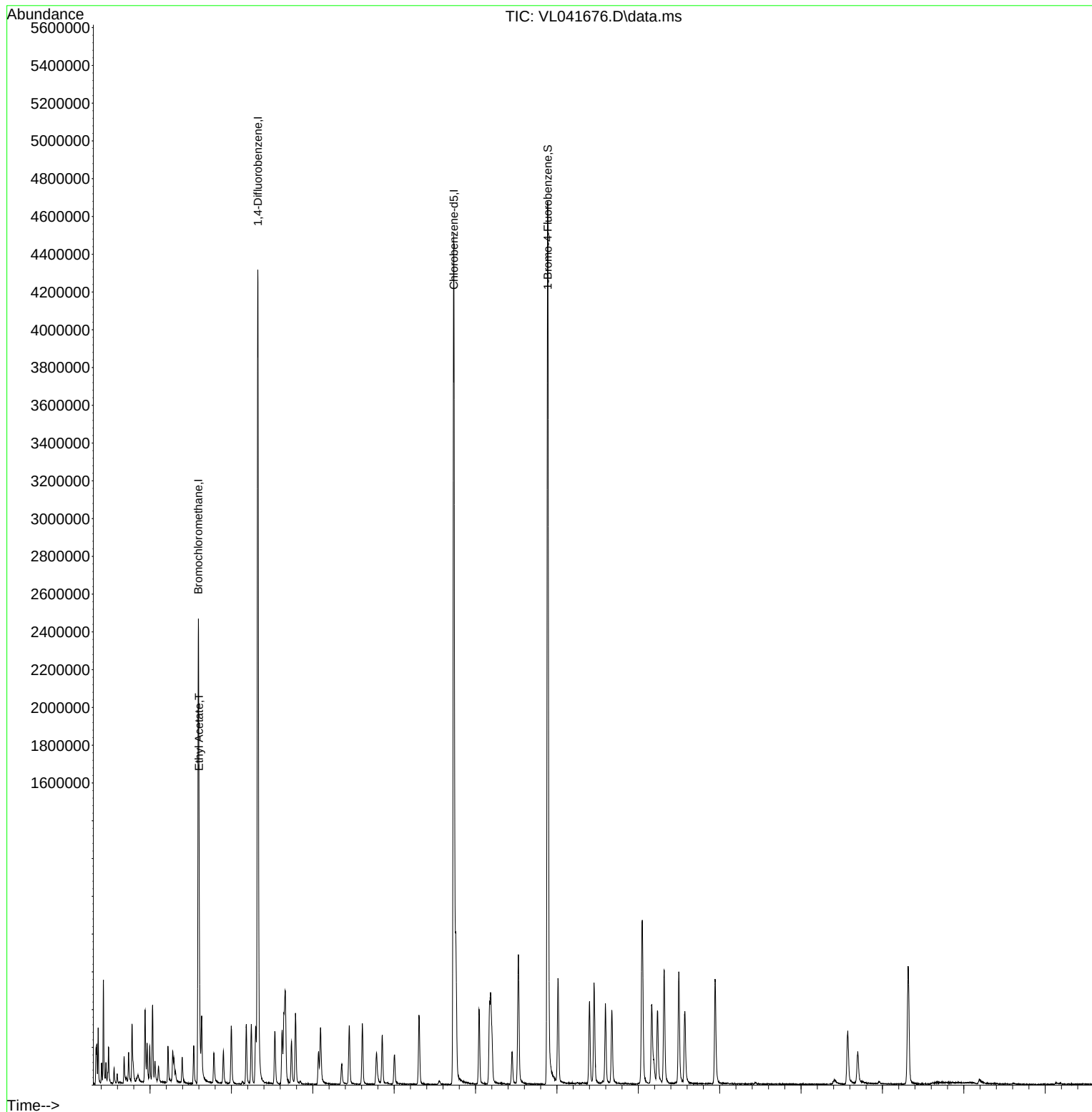
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
Data File : VL041676.D  
Acq On : 7 Nov 2024 11:34  
Operator : SY/MD  
Sample : VSTDICC001  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

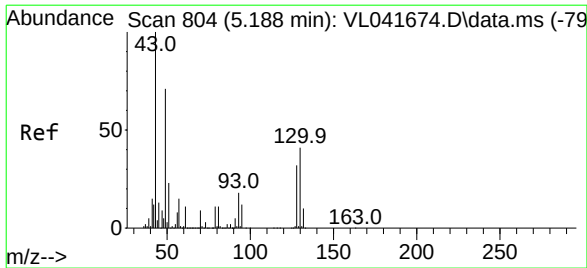
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Quant Time: Nov 08 00:10:33 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Mahesh Dadoda 11/09/2024  
Supervised By : Semsettin Yesilyurt 11/09/2024





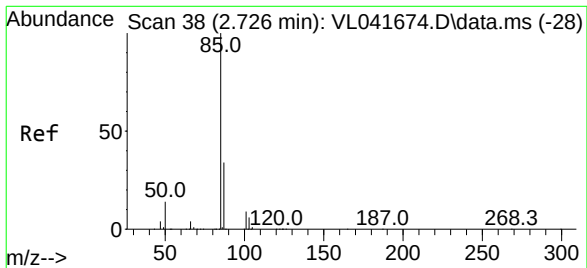
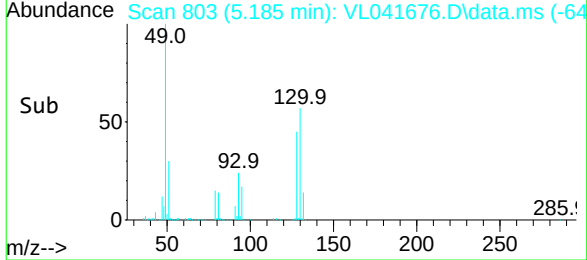
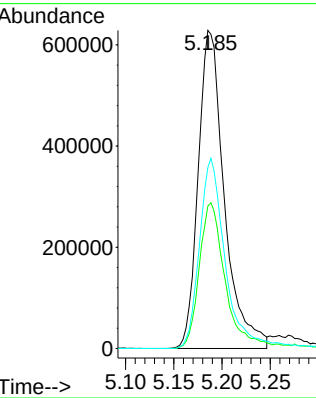
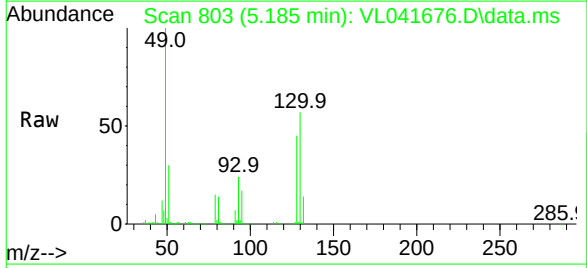
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.185 min Scan# 804  
Delta R.T. -0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 49 Resp: 1184622  
Ion Ratio Lower Upper  
49 100  
128 47.2 23.8 71.2  
130 61.0 30.1 90.5

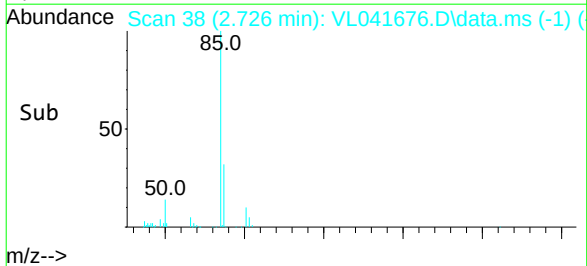
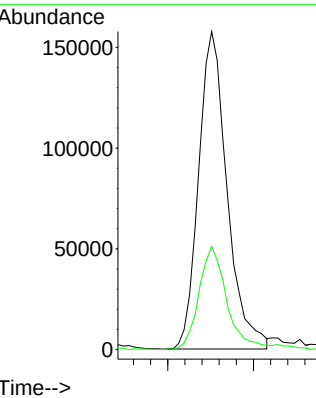
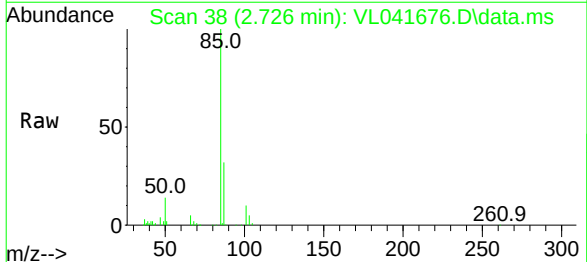
Manual Integrations  
APPROVED

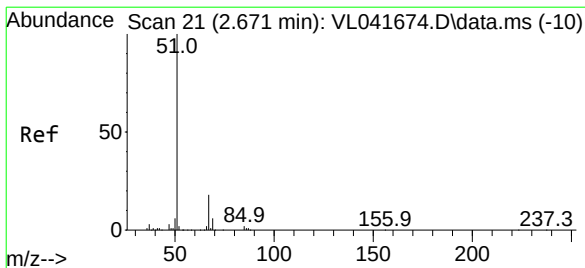
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#2  
Dichlorodifluoromethane  
Concen: 0.848 ppbv  
RT: 2.726 min Scan# 38  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

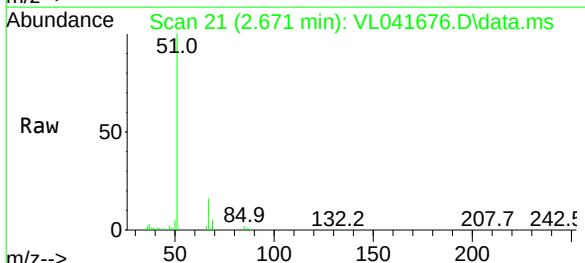
Tgt Ion: 85 Resp: 181618  
Ion Ratio Lower Upper  
85 100  
87 32.3 26.8 40.2





#3  
Chlorodifluoromethane  
Concen: 1.063 ppbv  
RT: 2.671 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

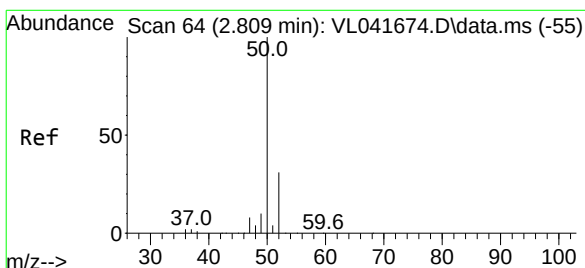
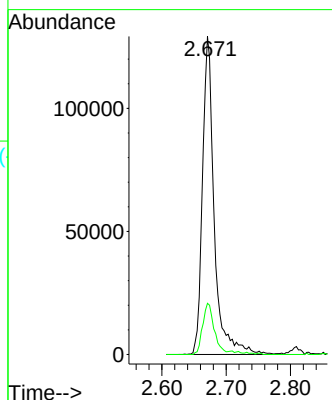
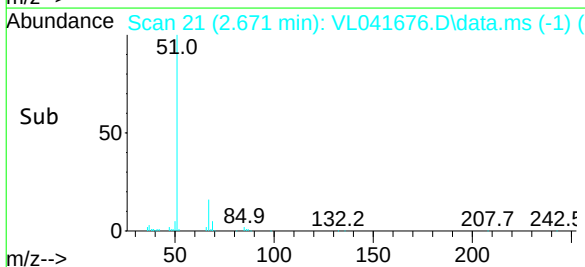
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



Tgt Ion: 51 Resp: 164131  
Ion Ratio Lower Upper  
51 100  
67 17.3 13.9 20.9

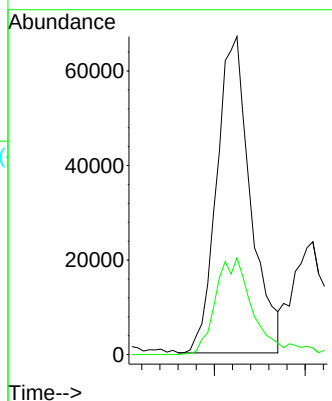
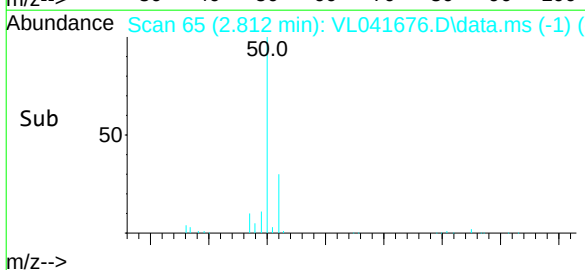
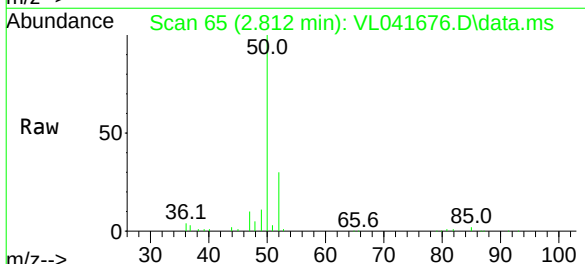
Manual Integrations  
APPROVED

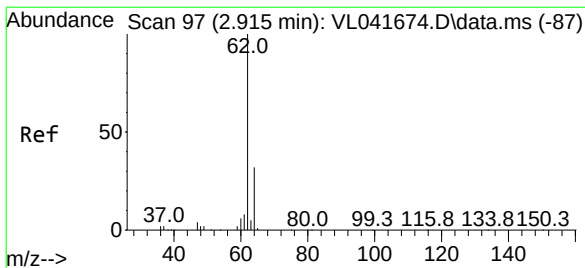
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#4  
Chloromethane  
Concen: 1.060 ppbv  
RT: 2.812 min Scan# 65  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

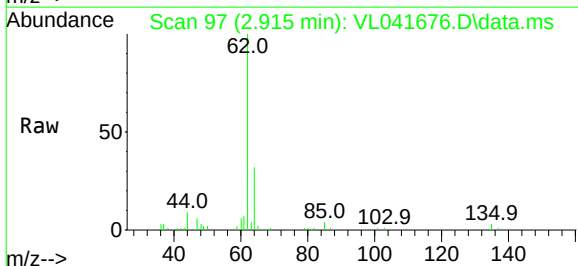
Tgt Ion: 50 Resp: 86683  
Ion Ratio Lower Upper  
50 100  
52 31.2 24.9 37.3





#5  
 Vinyl Chloride  
 Concen: 1.055 ppbv  
 RT: 2.915 min Scan# 97  
 Delta R.T. 0.000 min  
 Lab File: VL041676.D  
 Acq: 7 Nov 2024 11:34

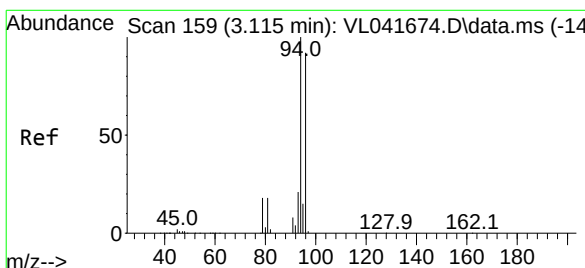
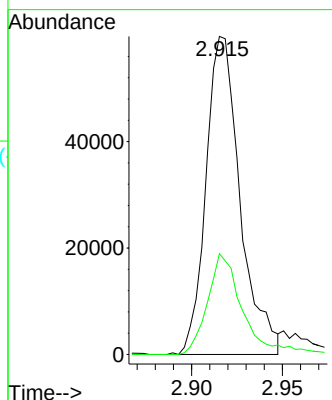
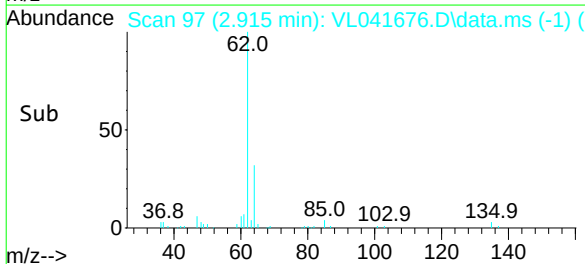
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001



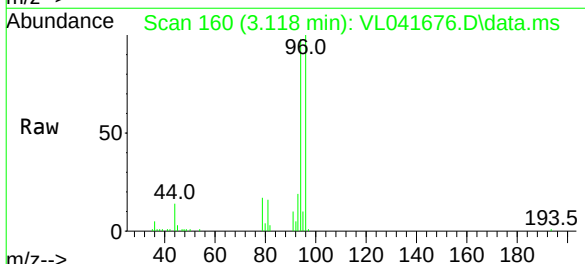
Tgt Ion: 62 Resp: 78147  
 Ion Ratio Lower Upper  
 62 100  
 64 31.7 25.4 38.2

Manual Integrations  
 APPROVED

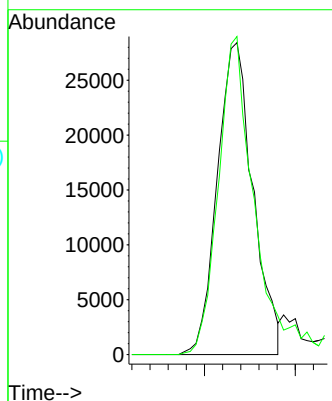
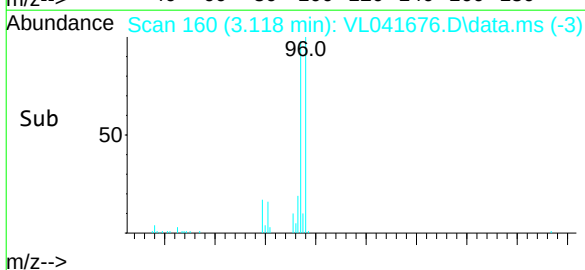
Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

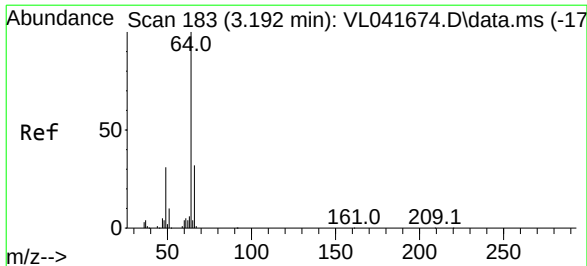


#6  
 Bromomethane  
 Concen: 0.995 ppbv  
 RT: 3.118 min Scan# 160  
 Delta R.T. 0.003 min  
 Lab File: VL041676.D  
 Acq: 7 Nov 2024 11:34



Tgt Ion: 94 Resp: 38811  
 Ion Ratio Lower Upper  
 94 100  
 96 102.0 73.4 110.2





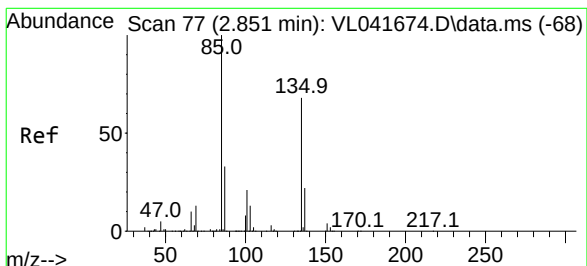
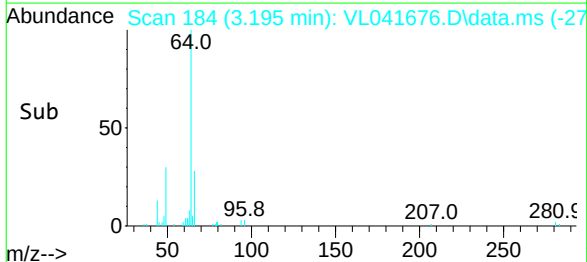
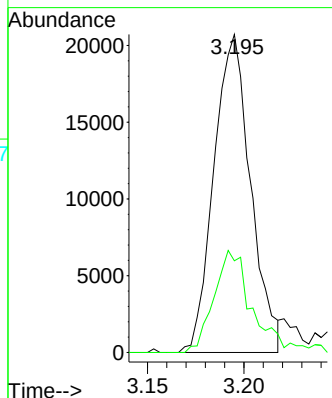
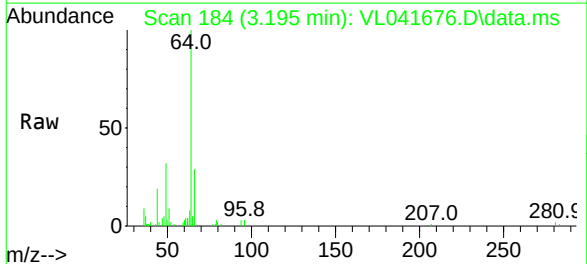
#7  
Chloroethane  
Concen: 1.023 ppbv  
RT: 3.195 min Scan# 183  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 64 Resp: 27451  
Ion Ratio Lower Upper  
64 100  
66 28.8 25.9 38.9

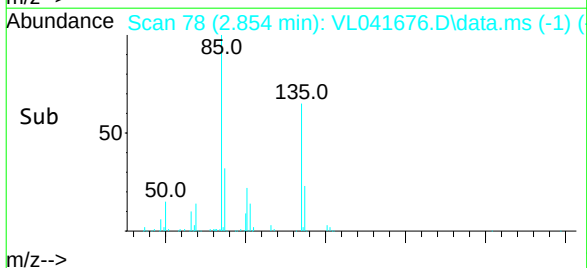
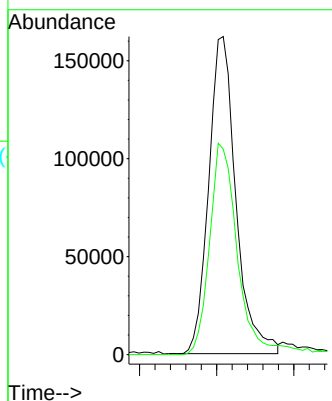
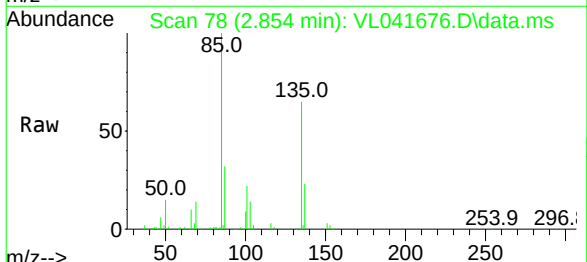
Manual Integrations  
APPROVED

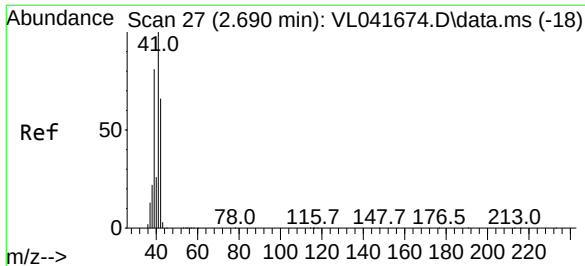
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#8  
Dichlorotetrafluoroethane  
Concen: 1.039 ppbv  
RT: 2.854 min Scan# 78  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 85 Resp: 198669  
Ion Ratio Lower Upper  
85 100  
135 70.3 55.5 83.3





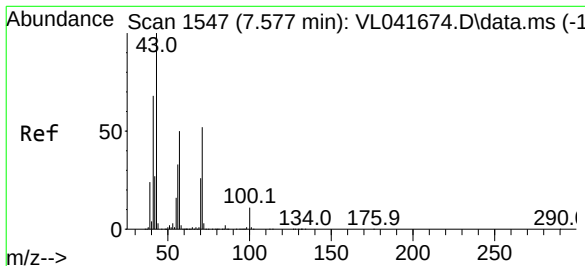
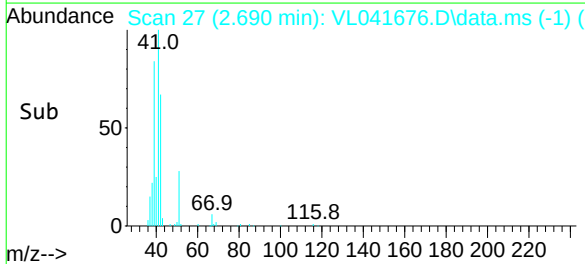
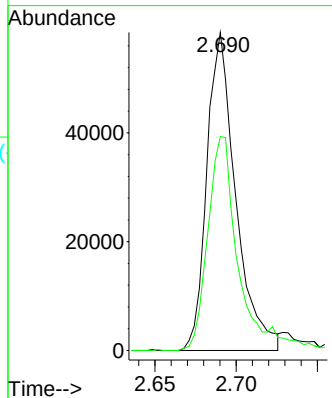
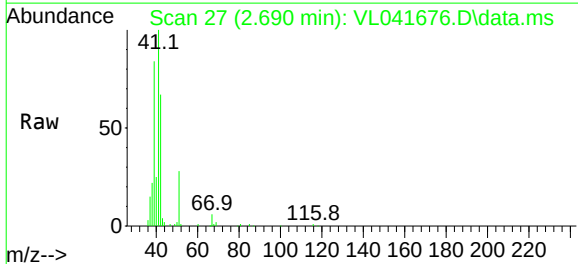
#9  
Propene  
Concen: 1.074 ppbv  
RT: 2.690 min Scan# 27  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 41 Resp: 72231  
Ion Ratio Lower Upper  
41 100  
42 72.6 55.0 82.4

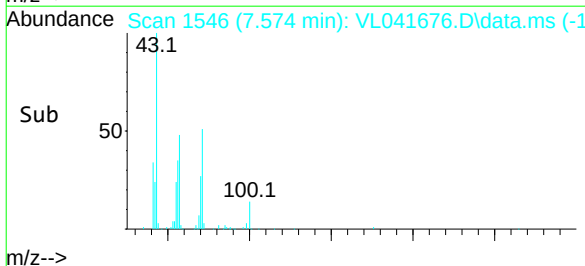
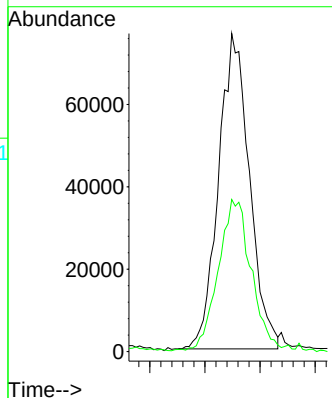
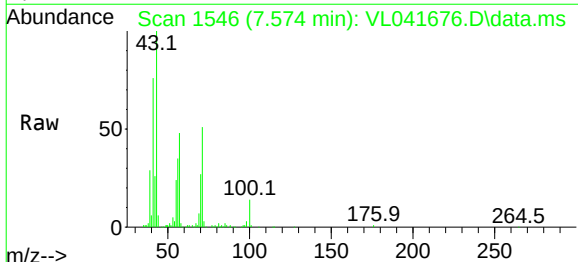
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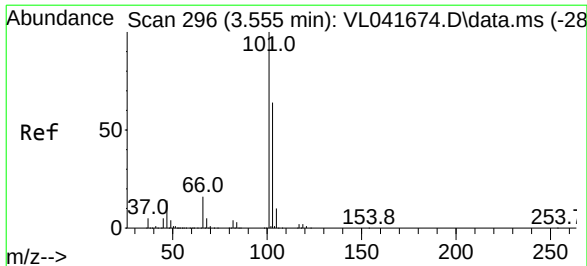
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#10  
Heptane  
Concen: 0.988 ppbv  
RT: 7.574 min Scan# 1546  
Delta R.T. -0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 43 Resp: 148906  
Ion Ratio Lower Upper  
43 100  
57 52.6 40.0 60.0





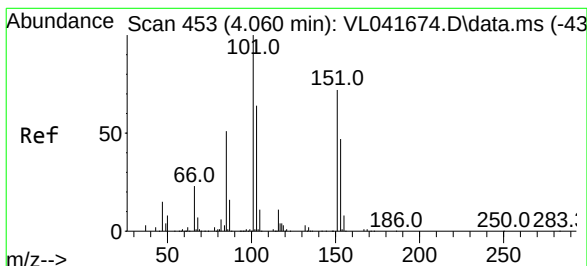
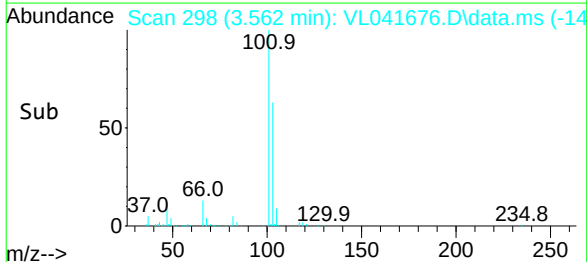
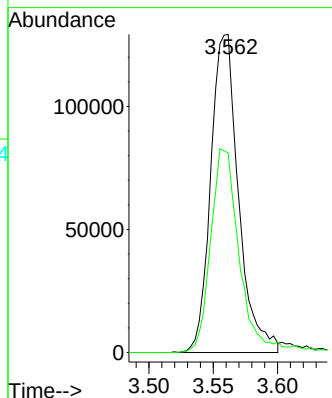
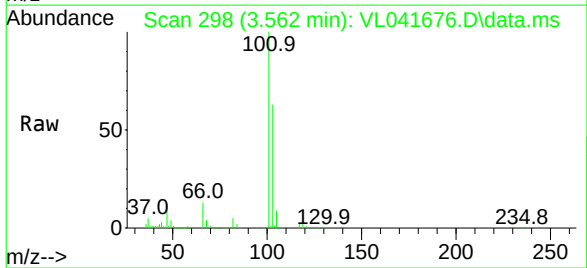
#11  
Trichlorofluoromethane  
Concen: 1.044 ppbv  
RT: 3.562 min Scan# 296  
Delta R.T. 0.007 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion:101 Resp: 194775  
Ion Ratio Lower Upper  
101 100  
103 62.6 51.0 76.6

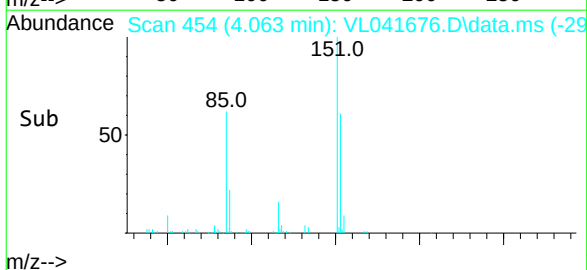
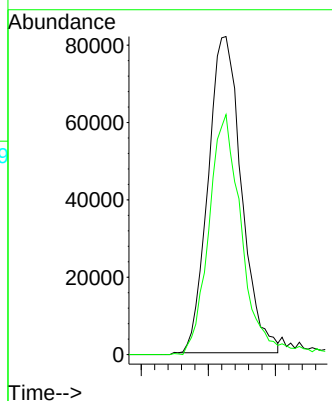
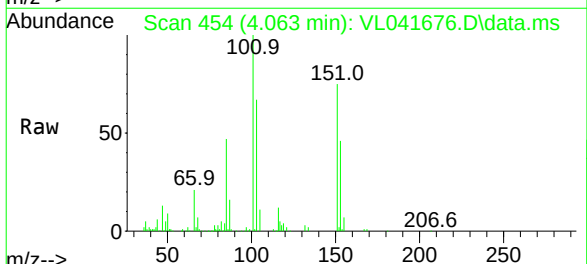
Manual Integrations  
APPROVED

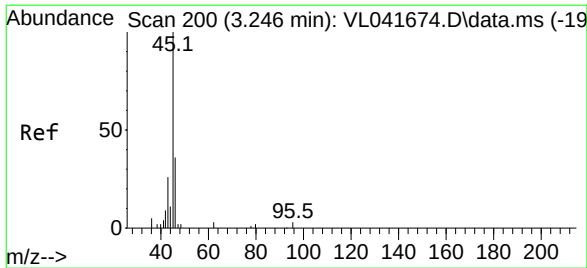
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.044 ppbv  
RT: 4.063 min Scan# 454  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion:101 Resp: 141527  
Ion Ratio Lower Upper  
101 100  
151 75.7 59.1 88.7





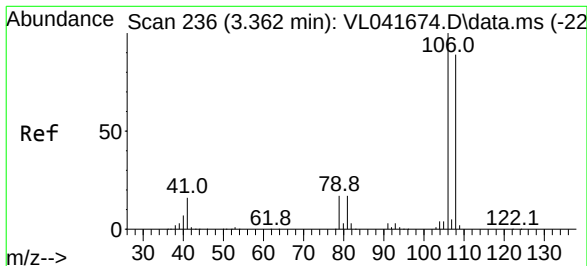
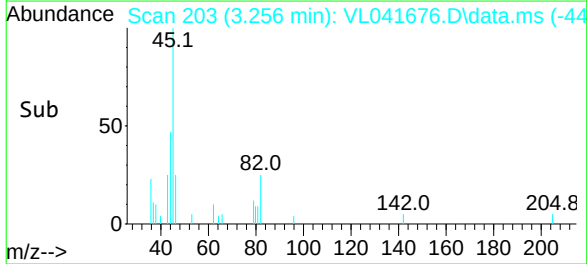
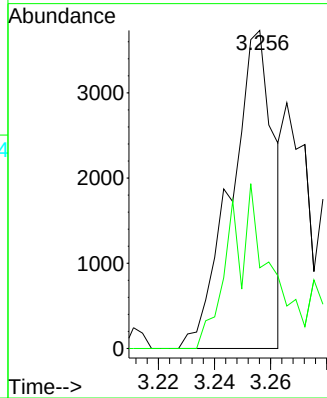
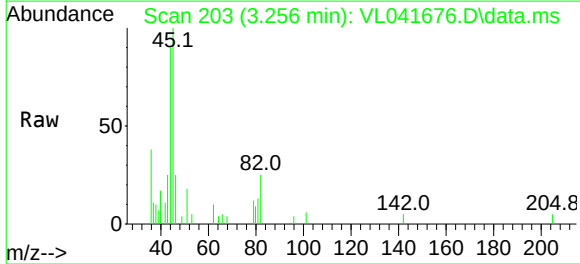
#13  
Ethanol  
Concen: 0.947 ppbv  
RT: 3.256 min Scan# 20  
Delta R.T. 0.010 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 45 Resp: 3961  
Ion Ratio Lower Upper  
45 100  
46 64.4 13.8 55.2#

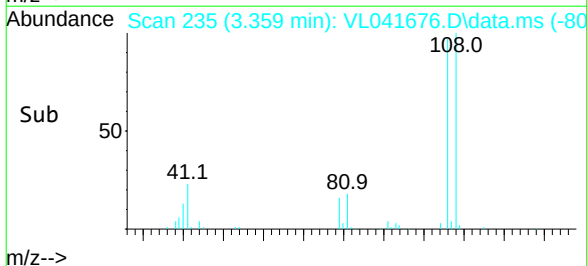
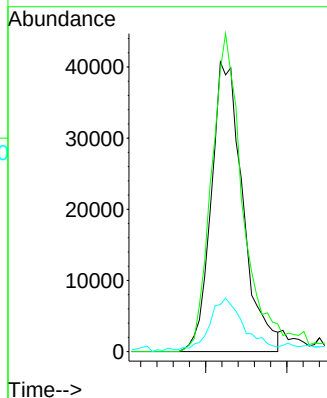
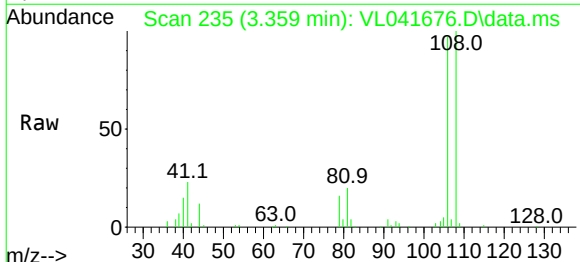
Manual Integrations  
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Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

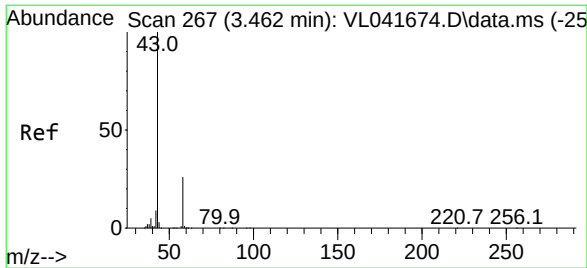


#14  
Bromoethene  
Concen: 1.011 ppbv  
RT: 3.359 min Scan# 235  
Delta R.T. -0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion:108 Resp: 55094  
Ion Ratio Lower Upper  
108 100  
106 117.6 88.6 133.0  
79 26.0 15.6 23.4#







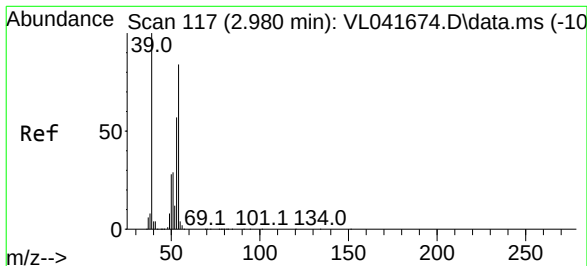
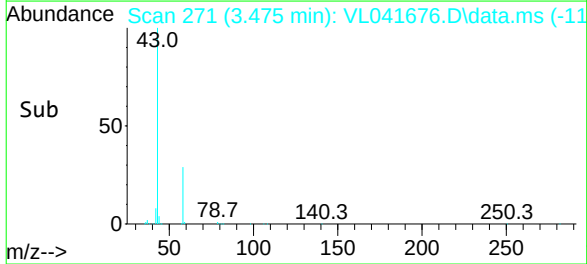
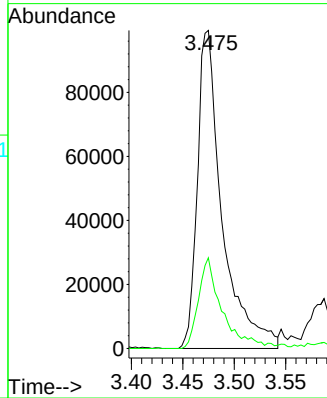
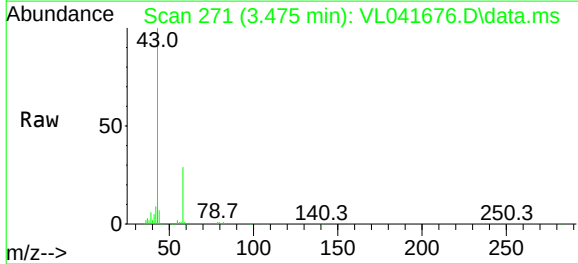
#15  
Acetone  
Concen: 1.140 ppbv  
RT: 3.475 min Scan# 271  
Delta R.T. 0.013 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 43 Resp: 166255  
Ion Ratio Lower Upper  
43 100  
58 27.3 21.4 32.0

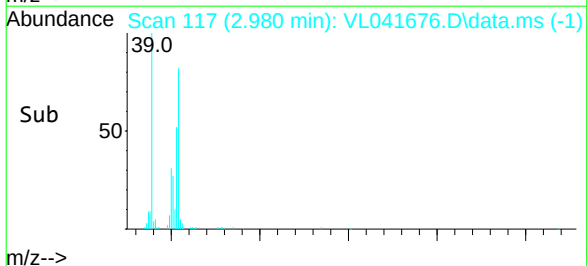
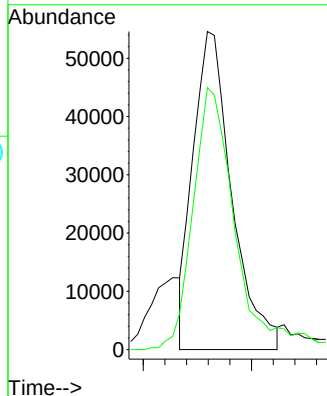
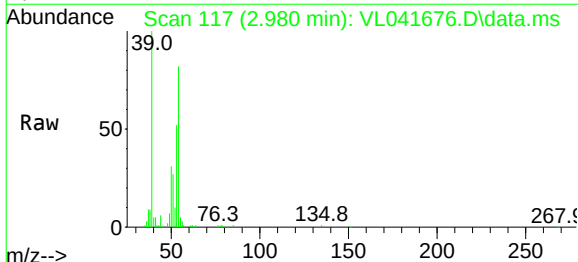
Manual Integrations  
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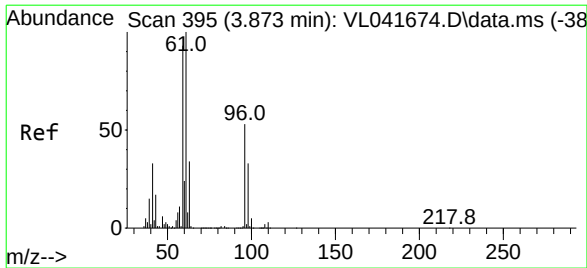
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#16  
1,3-Butadiene  
Concen: 0.927 ppbv m  
RT: 2.980 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 39 Resp: 67777  
Ion Ratio Lower Upper  
39 100  
54 92.3 61.3 91.9#





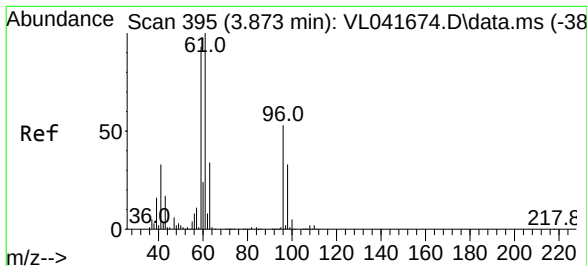
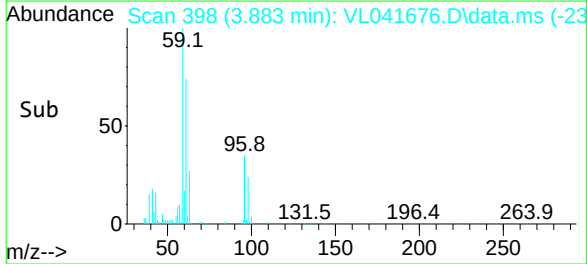
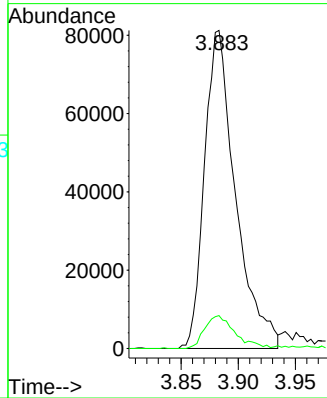
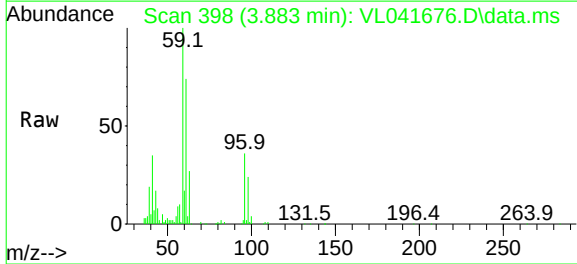
#17  
tert-Butyl alcohol  
Concen: 1.198 ppbv  
RT: 3.883 min Scan# 395  
Delta R.T. 0.010 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 59 Resp: 153265  
Ion Ratio Lower Upper  
59 100  
57 10.2 8.5 12.7

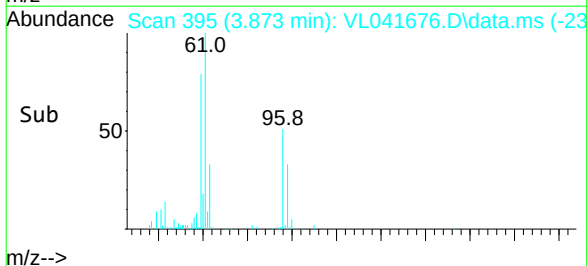
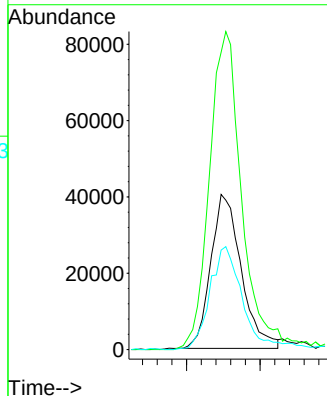
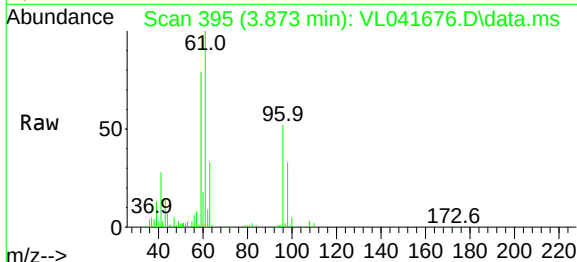
Manual Integrations  
APPROVED

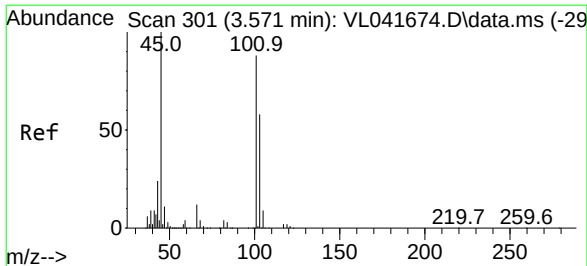
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#18  
1,1-Dichloroethene  
Concen: 0.979 ppbv  
RT: 3.873 min Scan# 395  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

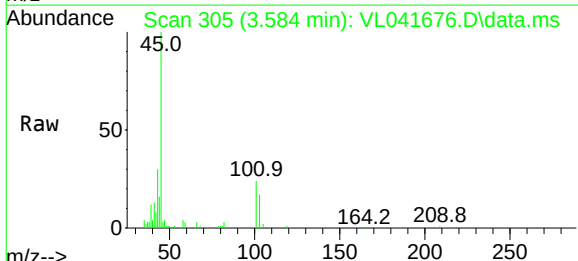
Tgt Ion: 96 Resp: 58180  
Ion Ratio Lower Upper  
96 100  
61 191.9 150.7 226.1  
98 64.0 49.4 74.2





#19  
Isopropyl Alcohol  
Concen: 1.168 ppbv  
RT: 3.584 min Scan# 301  
Delta R.T. 0.013 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

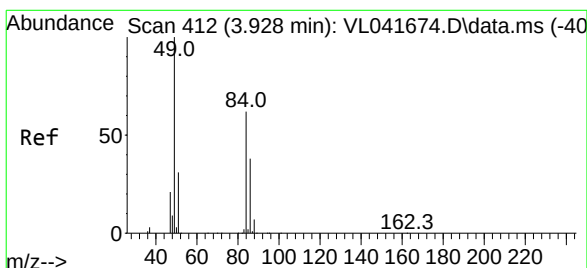
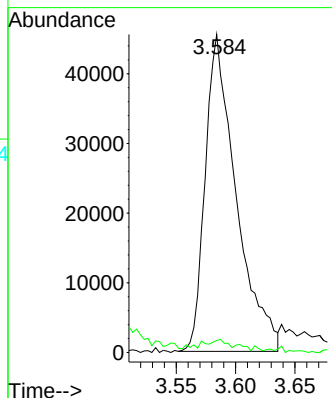
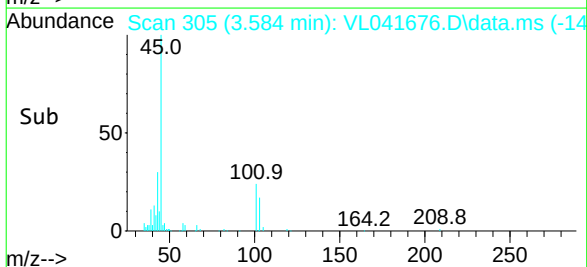
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



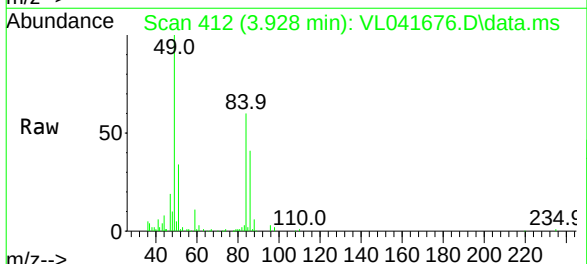
Tgt Ion: 45 Resp: 82398  
Ion Ratio Lower Upper  
45 100  
58 6.2 2.5 3.7#

Manual Integrations  
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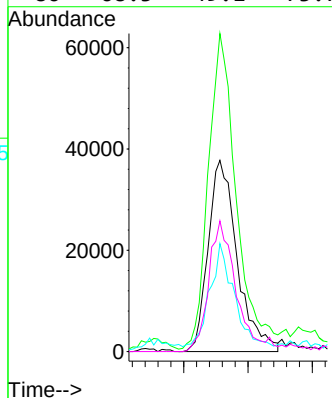
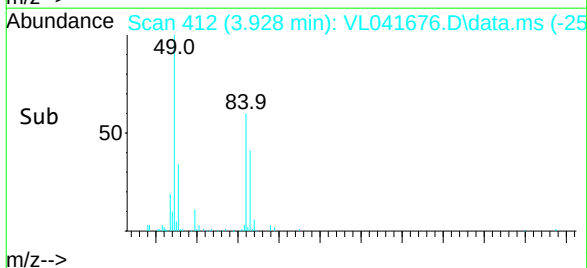
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

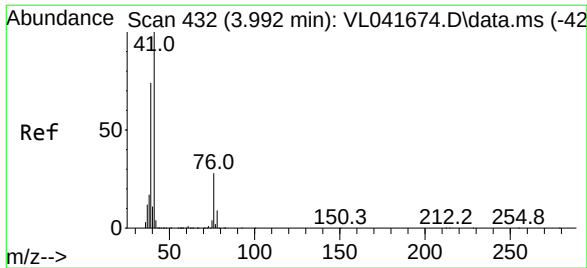


#20  
Methylene Chloride  
Concen: 1.107 ppbv  
RT: 3.928 min Scan# 412  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34



Tgt Ion: 84 Resp: 59394  
Ion Ratio Lower Upper  
84 100  
49 165.0 129.7 194.5  
51 52.7 39.8 59.6  
86 68.3 49.1 73.7





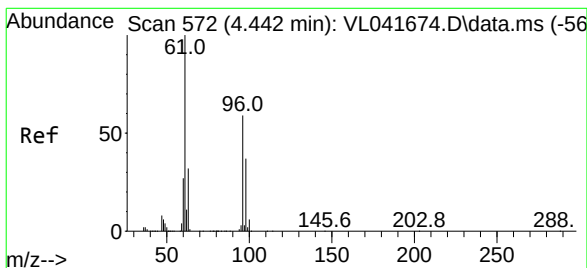
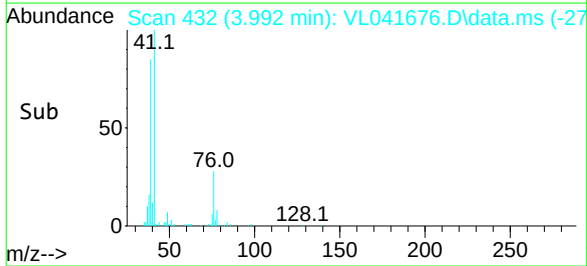
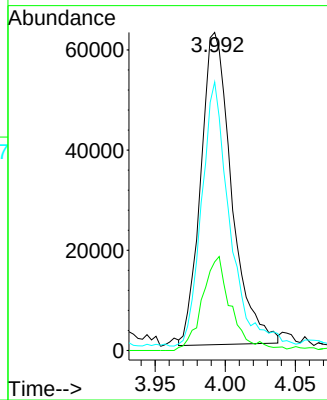
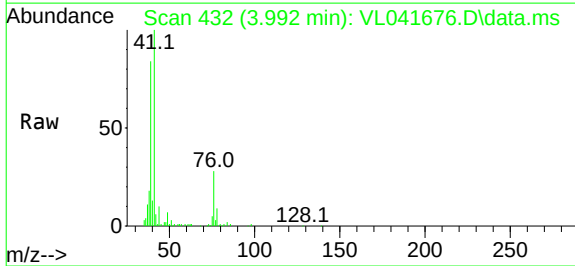
#21  
 Allyl Chloride  
 Concen: 1.061 ppbv  
 RT: 3.992 min Scan# 43  
 Delta R.T. 0.000 min  
 Lab File: VL041676.D  
 Acq: 7 Nov 2024 11:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 95568 |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 76 28.9     | 23.5 35.3   |
| 39 76.9     | 63.0 94.4   |

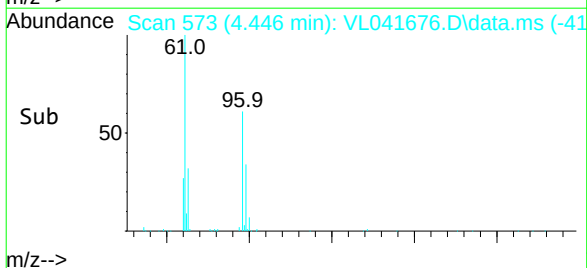
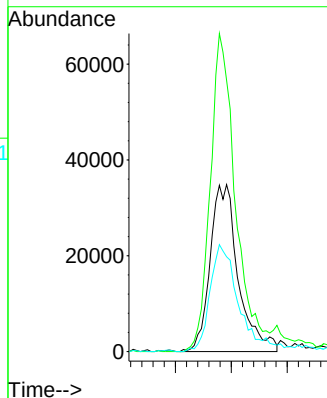
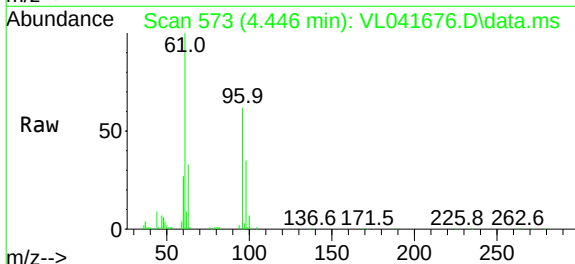
Manual Integrations  
 APPROVED

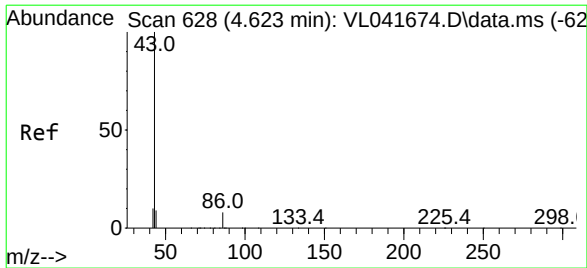
Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024



#22  
 trans-1,2-Dichloroethene  
 Concen: 1.028 ppbv m  
 RT: 4.446 min Scan# 573  
 Delta R.T. 0.003 min  
 Lab File: VL041676.D  
 Acq: 7 Nov 2024 11:34

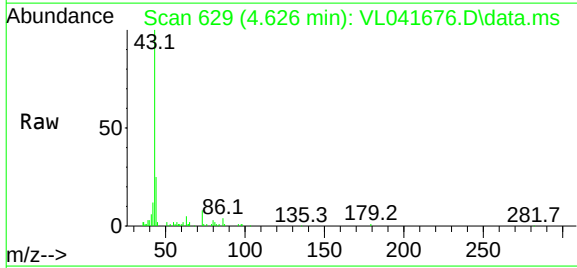
|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 60981 |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 61 162.5    | 134.5 201.7 |
| 98 56.8     | 49.6 74.4   |





#23  
Vinyl Acetate  
Concen: 0.964 ppbv m  
RT: 4.626 min Scan# 62  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

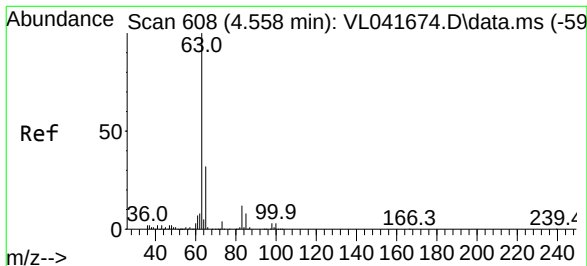
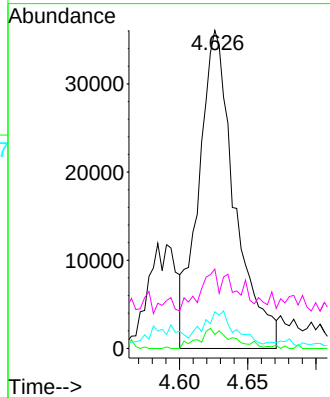
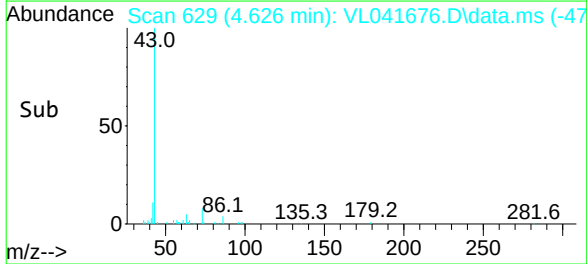
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



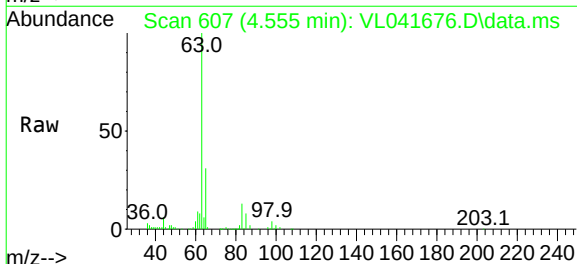
|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 66087    |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 86          | 4.4 5.3 7.9#   |
| 42          | 11.5 8.5 12.7  |
| 44          | 25.0 6.7 10.1# |

Manual Integrations  
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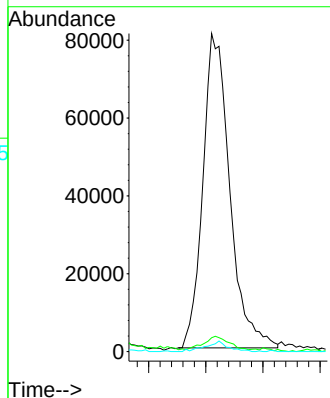
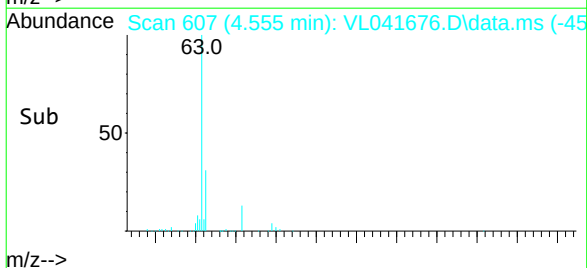
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

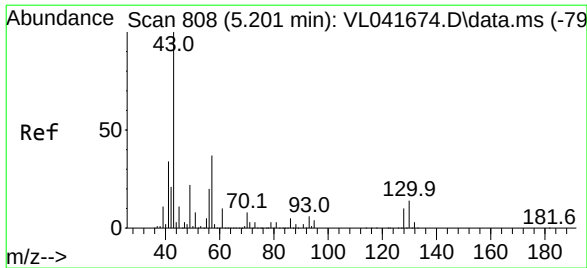


#24  
1,1-Dichloroethane  
Concen: 1.002 ppbv  
RT: 4.555 min Scan# 607  
Delta R.T. -0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34



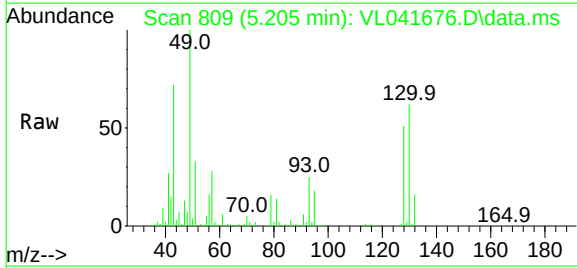
|             |              |
|-------------|--------------|
| Tgt Ion: 63 | Resp: 132214 |
| Ion Ratio   | Lower Upper  |
| 63          | 100          |
| 98          | 3.8 1.8 5.4  |
| 100         | 2.1 1.4 4.2  |





#25  
Ethyl Acetate  
Concen: 1.050 ppbv  
RT: 5.205 min Scan# 808  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

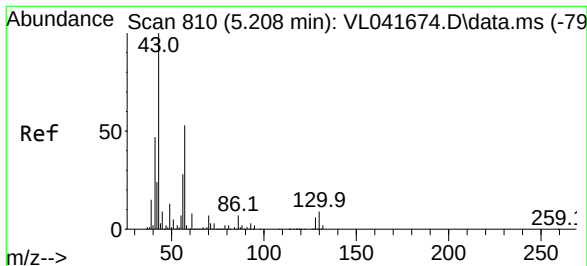
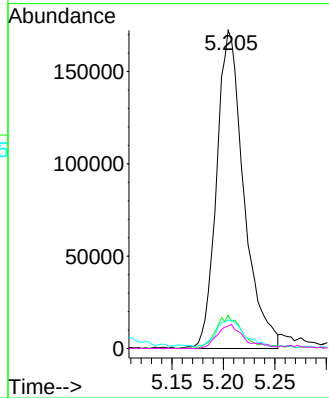
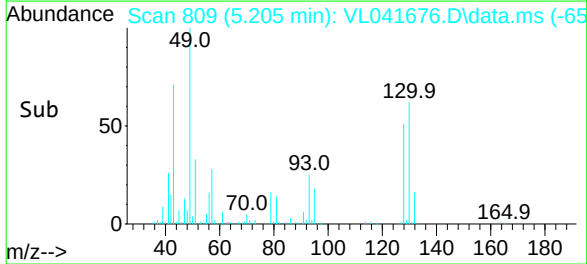
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



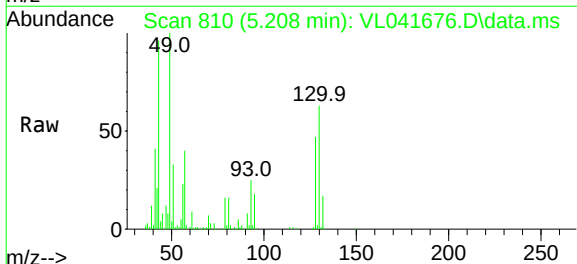
Tgt Ion: 43 Resp: 316814  
Ion Ratio Lower Upper  
43 100  
45 11.0 8.6 13.0  
61 9.5 8.4 12.6  
70 8.4 5.8 8.6

Manual Integrations  
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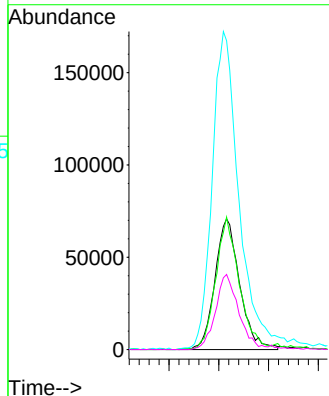
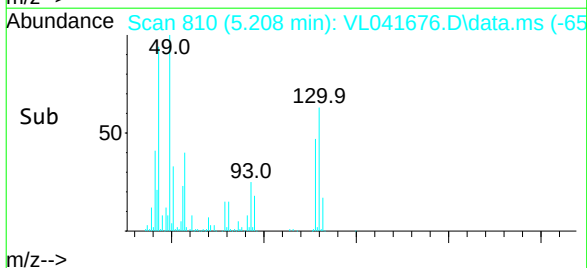
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

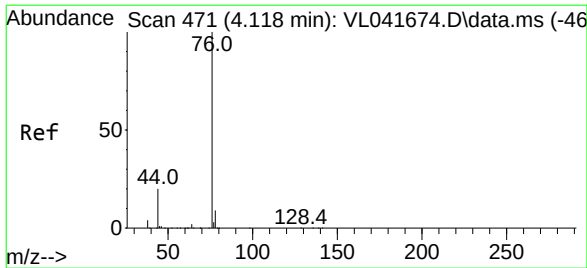


#26  
Hexane  
Concen: 1.053 ppbv  
RT: 5.208 min Scan# 810  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34



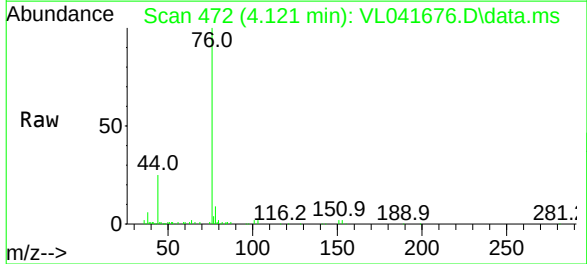
Tgt Ion: 57 Resp: 122113  
Ion Ratio Lower Upper  
57 100  
41 100.9 76.1 114.1  
43 271.9 207.0 310.6  
56 55.8 43.7 65.5





Carbon Disulfide  
Concen: 0.961 ppbv  
RT: 4.121 min Scan# 471  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

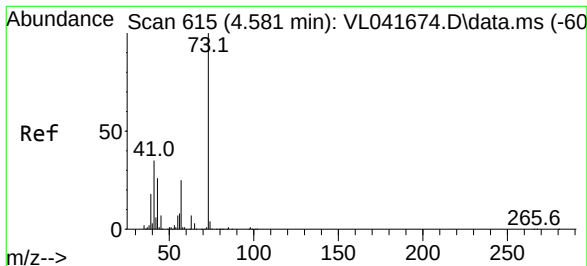
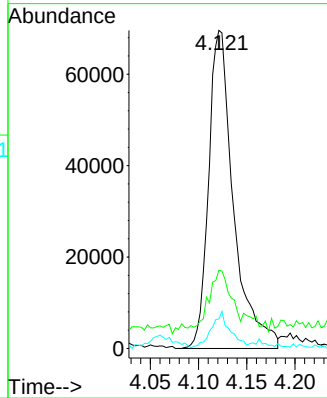
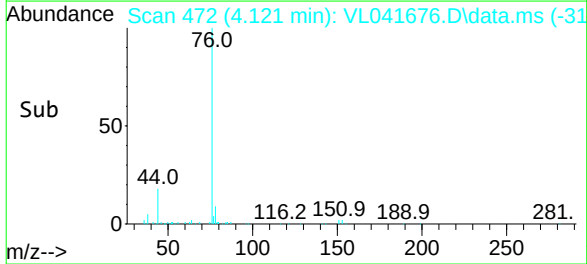
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion: 76 Resp: 125113  
Ion Ratio Lower Upper  
76 100  
44 21.0 15.8 23.8  
78 10.6 7.5 11.3

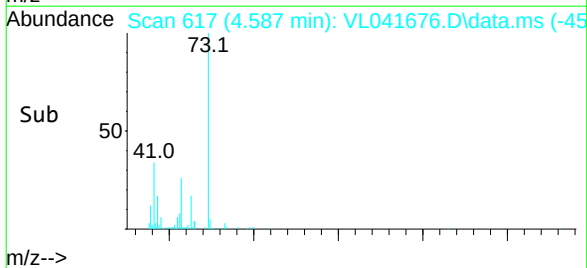
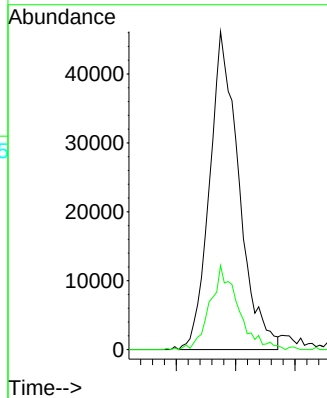
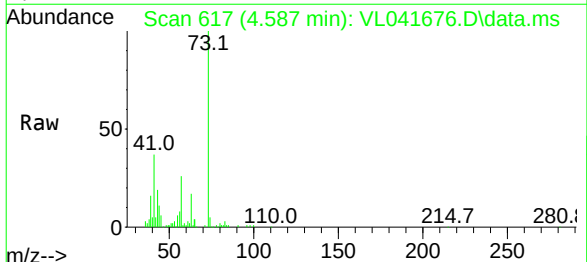
Manual Integrations  
APPROVED

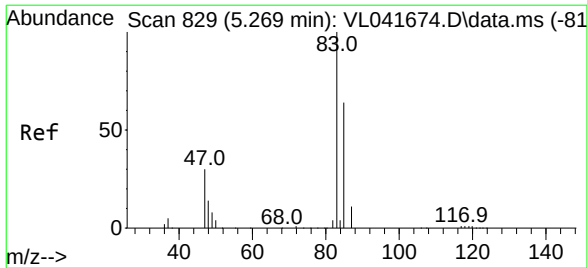
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



Methyl tert-Butyl Ether  
Concen: 1.062 ppbv  
RT: 4.587 min Scan# 617  
Delta R.T. 0.007 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

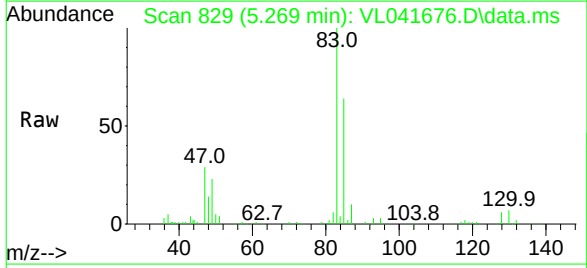
Tgt Ion: 73 Resp: 79309  
Ion Ratio Lower Upper  
73 100  
57 25.7 19.6 29.4





#29  
Chloroform  
Concen: 1.034 ppbv  
RT: 5.269 min Scan# 829  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

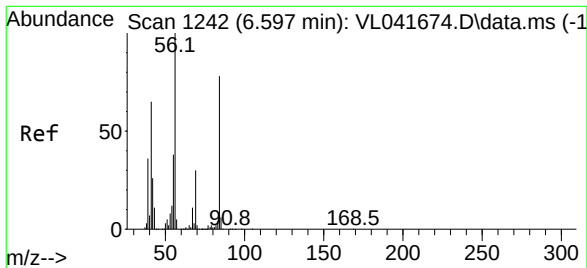
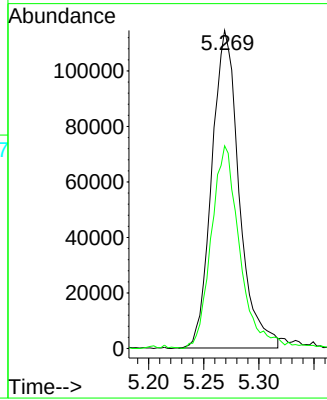
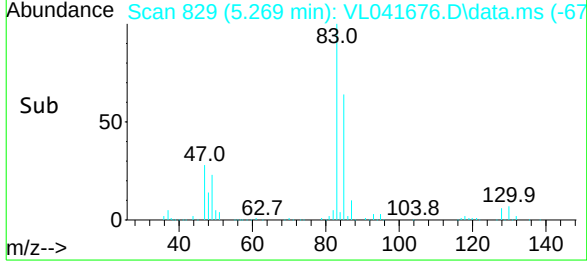
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



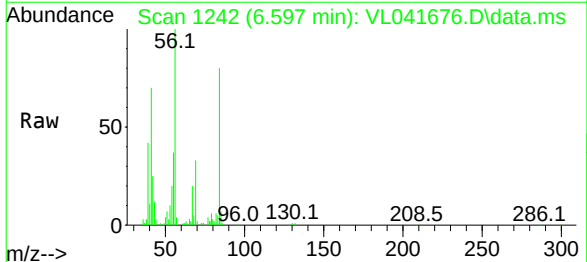
Tgt Ion: 83 Resp: 197891  
Ion Ratio Lower Upper  
83 100  
85 63.6 51.1 76.7

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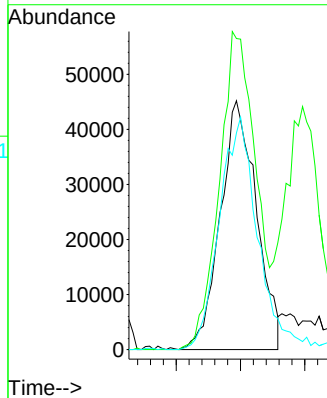
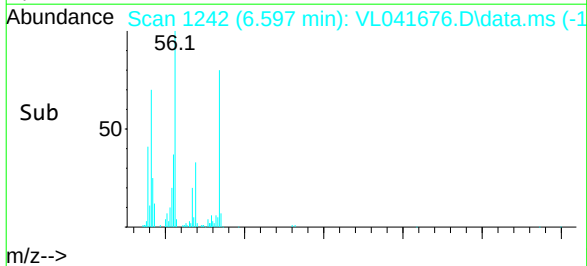
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



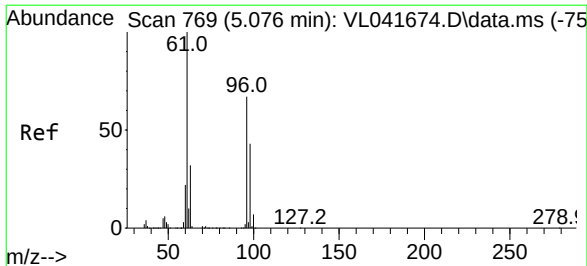
#30  
Cyclohexane  
Concen: 0.946 ppbv  
RT: 6.597 min Scan# 1242  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34



Tgt Ion: 84 Resp: 88127  
Ion Ratio Lower Upper  
84 100  
56 127.9 110.8 166.2  
41 100.1 70.0 105.0







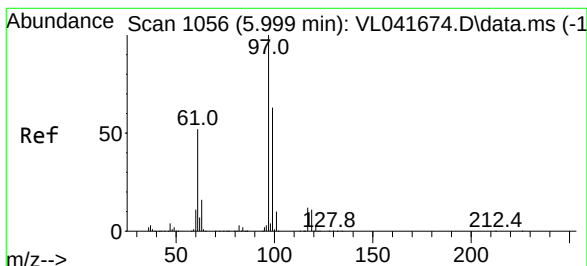
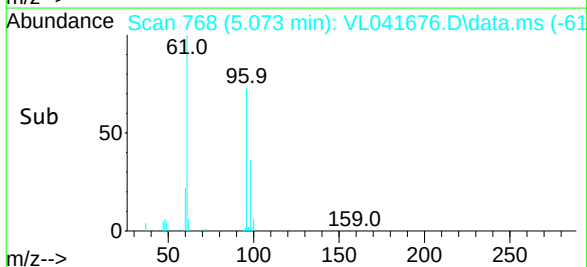
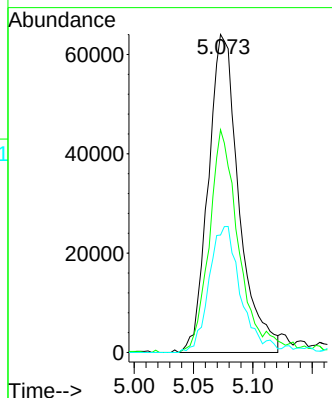
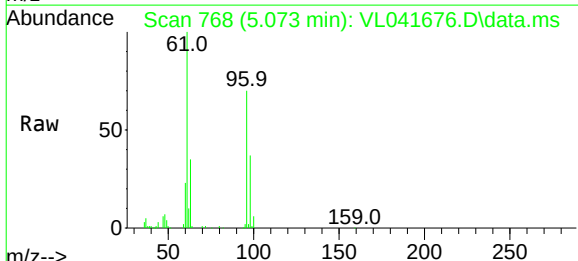
#31  
cis-1,2-Dichloroethene  
Concen: 1.032 ppbv  
RT: 5.073 min Scan# 769  
Delta R.T. -0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

| Tgt Ion: | 61    | Resp: | 115115 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 61       | 100   |       |        |
| 96       | 70.0  | 53.4  | 80.2   |
| 98       | 36.9  | 34.0  | 51.0   |

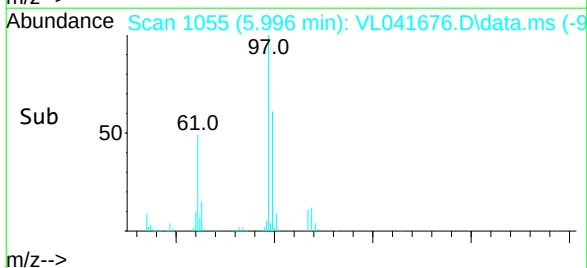
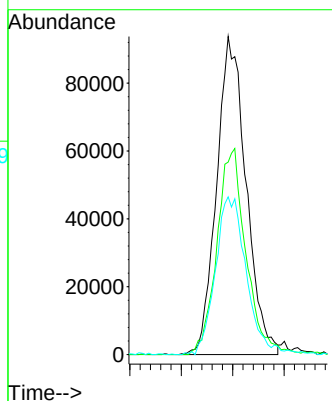
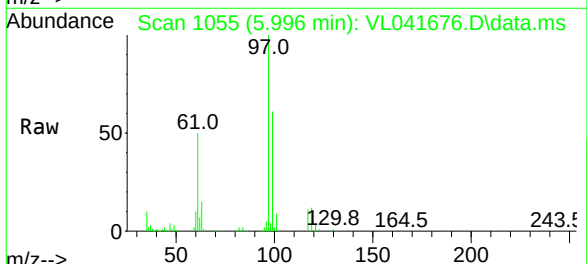
Manual Integrations  
APPROVED

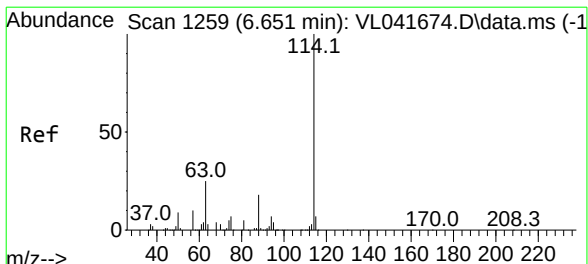
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#32  
1,1,1-Trichloroethane  
Concen: 1.063 ppbv  
RT: 5.996 min Scan# 1055  
Delta R.T. -0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

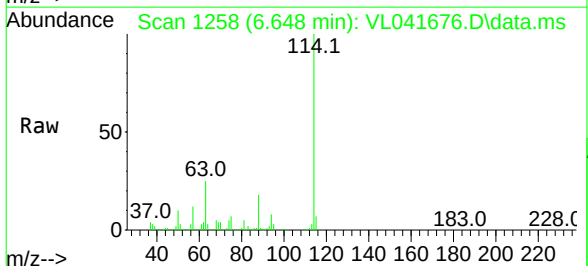
| Tgt Ion: | 97    | Resp: | 186425 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 64.5  | 51.4  | 77.2   |
| 61       | 52.4  | 41.7  | 62.5   |





#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 6.648 min Scan# 12  
 Delta R.T. -0.003 min  
 Lab File: VL041676.D  
 Acq: 7 Nov 2024 11:34

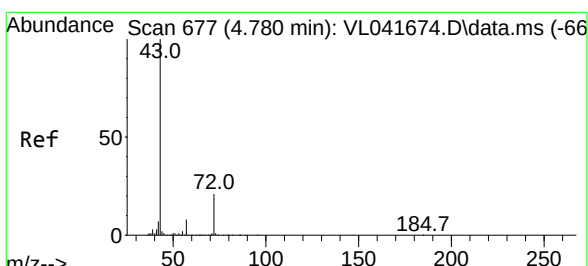
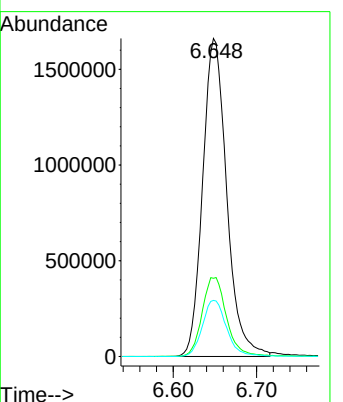
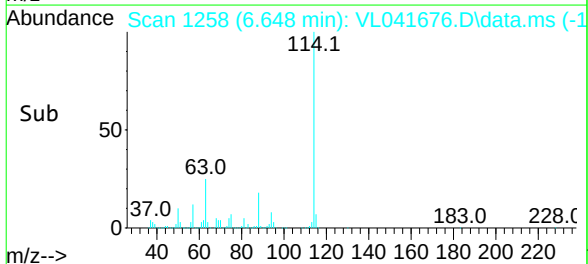
Instrument : MSVOA\_L  
 ClientSampleId : VSTDICC001



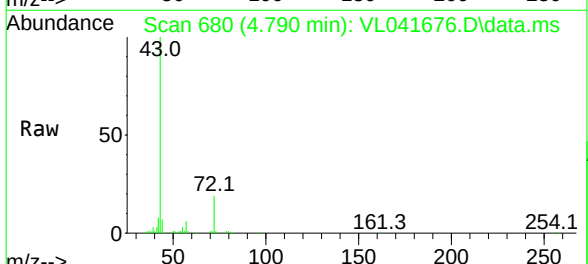
Tgt Ion: 114 Resp: 3332226

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 25.4  | 20.3  | 30.5  |
| 88  | 17.9  | 14.2  | 21.4  |

Manual Integrations  
**APPROVED**  
 Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

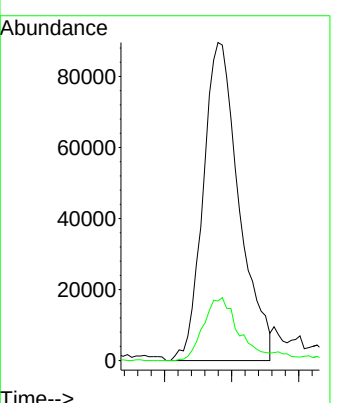
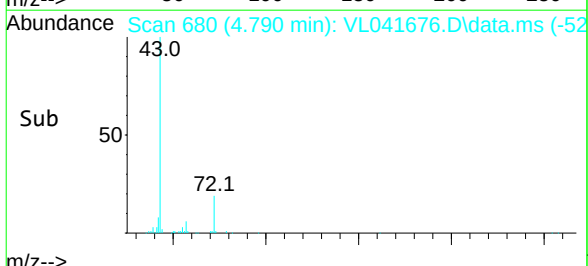


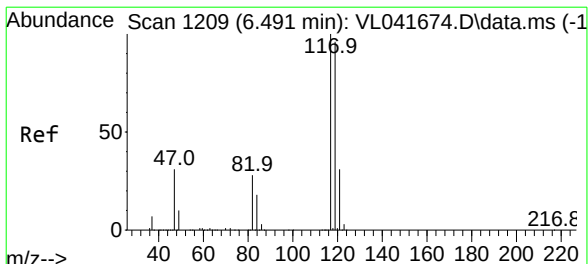
#34  
 2-Butanone  
 Concen: 1.004 ppbv  
 RT: 4.790 min Scan# 680  
 Delta R.T. 0.010 min  
 Lab File: VL041676.D  
 Acq: 7 Nov 2024 11:34



Tgt Ion: 43 Resp: 166525

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 22.0  | 17.4  | 26.0  |





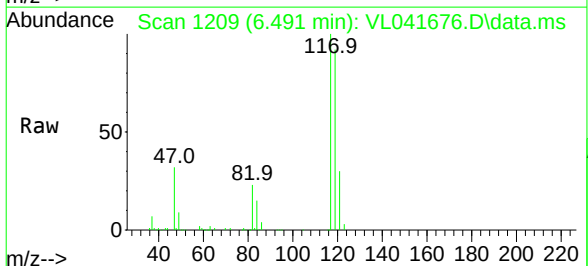
#35  
 Carbon Tetrachloride  
 Concen: 1.064 ppbv  
 RT: 6.491 min Scan# 1209  
 Delta R.T. 0.000 min  
 Lab File: VL041676.D  
 Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

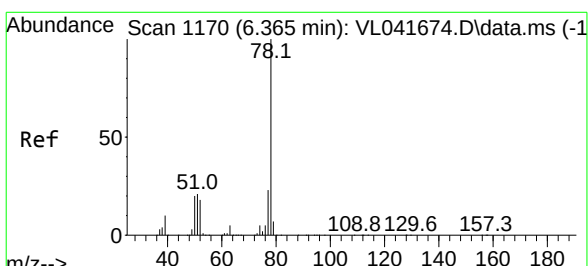
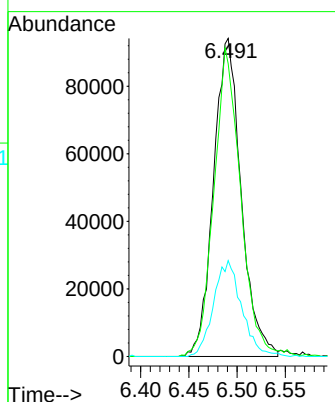
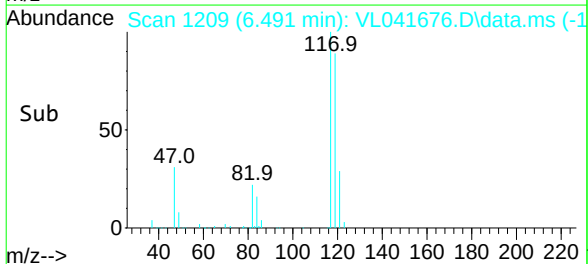
VSTDICC001



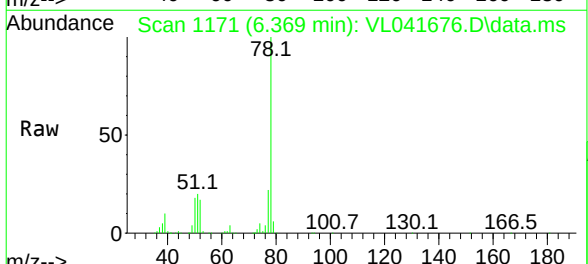
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 187475 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 92.1  | 77.2  | 115.8  |
| 121      | 30.1  | 25.0  | 37.4   |

Manual Integrations  
 APPROVED

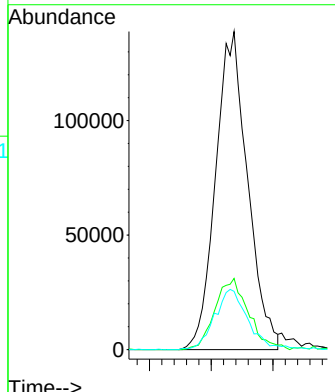
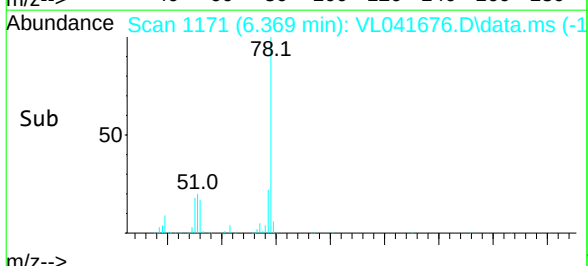
Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

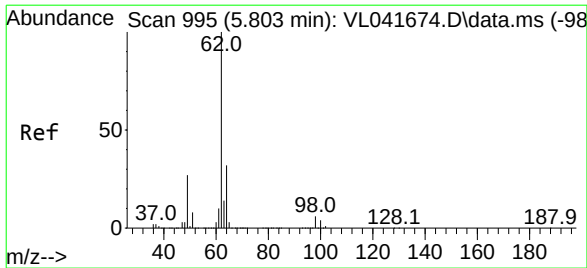


#36  
 Benzene  
 Concen: 1.014 ppbv  
 RT: 6.369 min Scan# 1171  
 Delta R.T. 0.003 min  
 Lab File: VL041676.D  
 Acq: 7 Nov 2024 11:34



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 78    | Resp: | 250318 |
| Ion      | Ratio | Lower | Upper  |
| 78       | 100   |       |        |
| 77       | 22.4  | 18.5  | 27.7   |
| 50       | 18.3  | 15.6  | 23.4   |





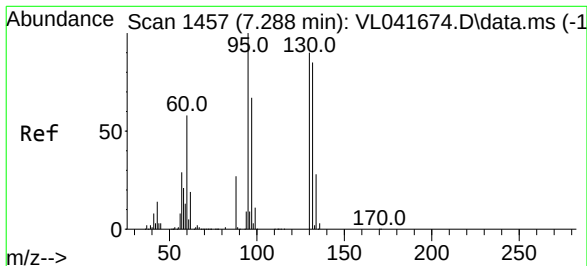
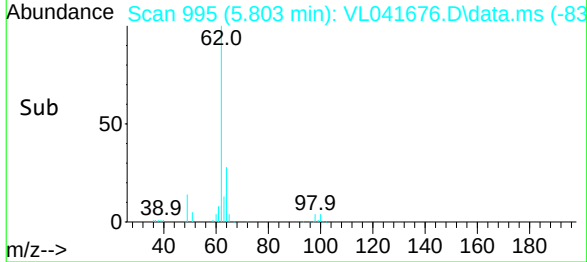
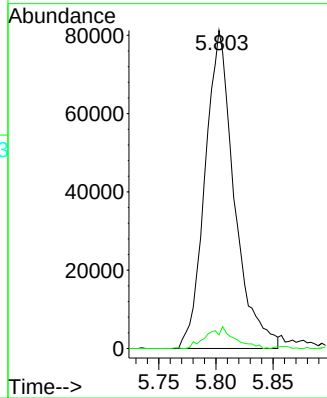
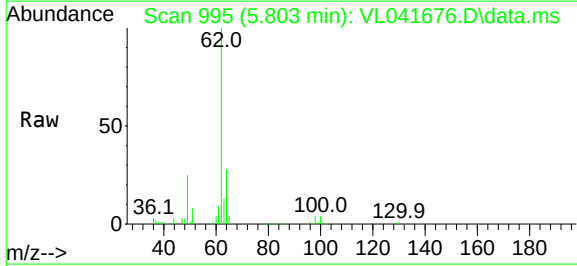
#37  
1,2-Dichloroethane  
Concen: 1.037 ppbv  
RT: 5.803 min Scan# 995  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 62 Resp: 144449  
Ion Ratio Lower Upper  
62 100  
98 6.5 5.2 7.8

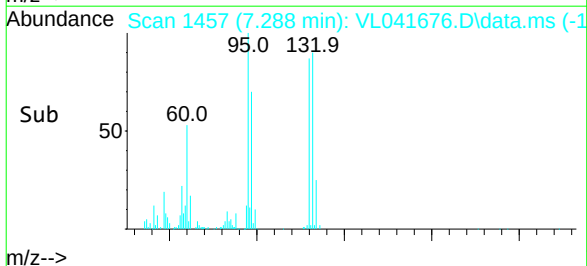
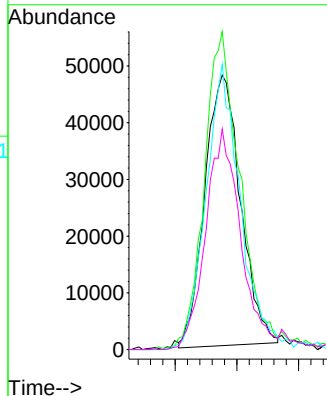
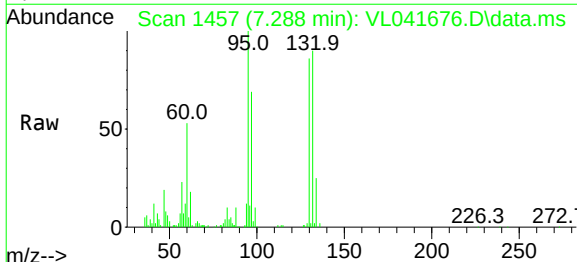
Manual Integrations  
APPROVED

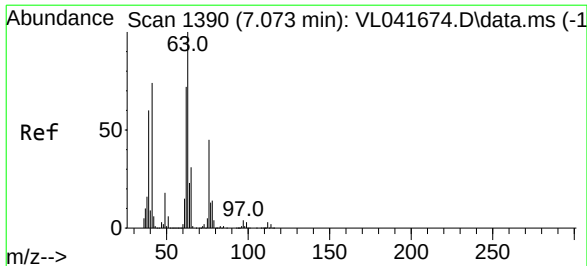
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#38  
Trichloroethene  
Concen: 1.010 ppbv  
RT: 7.288 min Scan# 1457  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

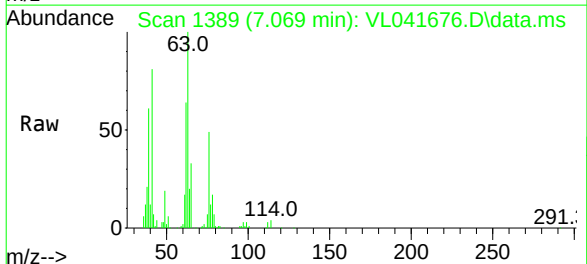
Tgt Ion:130 Resp: 96191  
Ion Ratio Lower Upper  
130 100  
95 114.6 89.1 133.7  
132 104.7 75.7 113.5  
97 81.3 60.0 90.0





#39  
1,2-Dichloropropane  
Concen: 1.023 ppbv  
RT: 7.069 min Scan# 1389  
Delta R.T. -0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

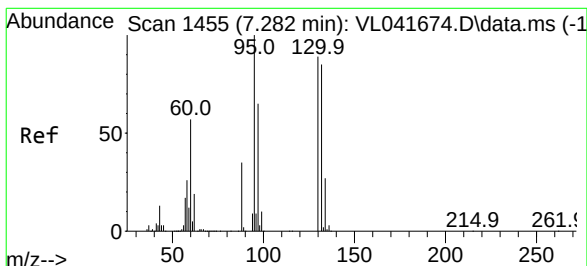
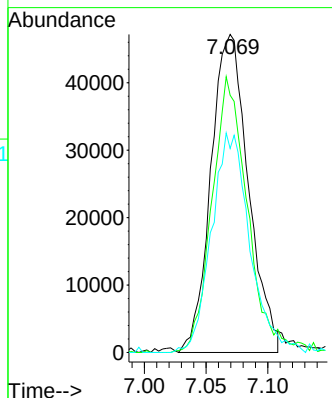
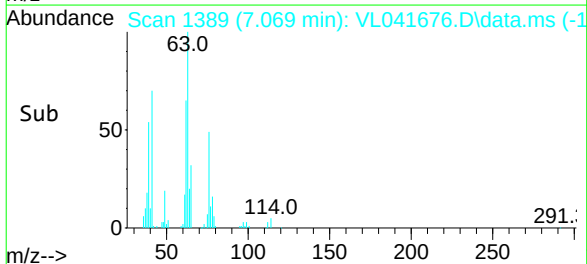
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



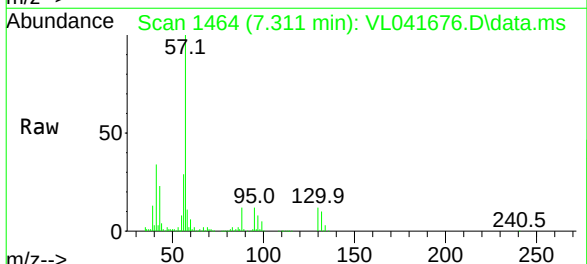
Tgt Ion: 63 Resp: 99780  
Ion Ratio Lower Upper  
63 100  
41 79.7 59.1 88.7  
62 62.6 57.7 86.5

Manual Integrations  
APPROVED

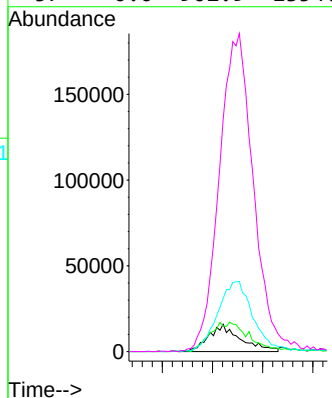
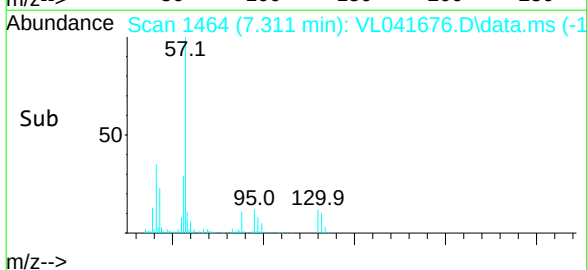
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

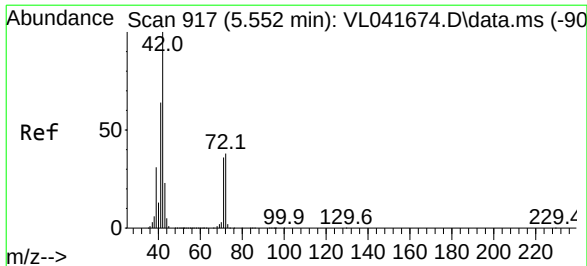


#40  
1,4-Dioxane  
Concen: 1.014 ppbv m  
RT: 7.311 min Scan# 1464  
Delta R.T. 0.029 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34



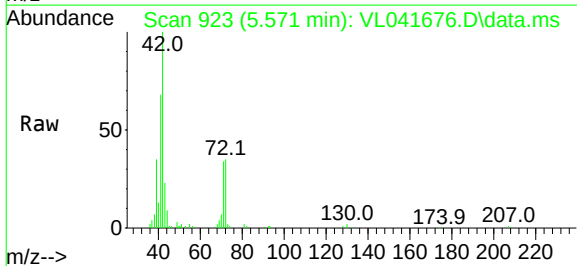
Tgt Ion: 88 Resp: 35039  
Ion Ratio Lower Upper  
88 100  
58 0.0 101.4 152.2#  
43 0.0 208.0 312.0#  
57 0.0 902.9 1354.3#





#41  
Tetrahydrofuran  
Concen: 0.989 ppbv  
RT: 5.571 min Scan# 921  
Delta R.T. 0.019 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

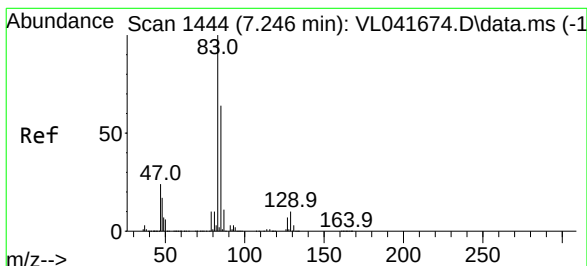
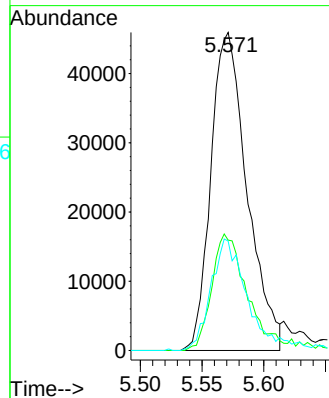
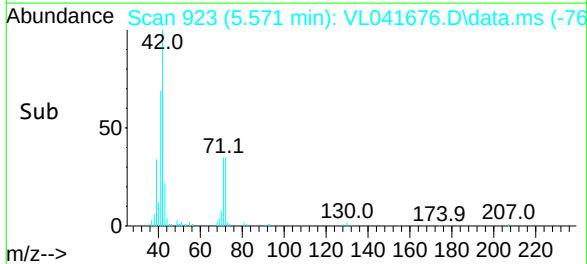
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion: 42 Resp: 93643  
Ion Ratio Lower Upper  
42 100  
72 37.6 29.8 44.6  
71 36.5 29.4 44.2

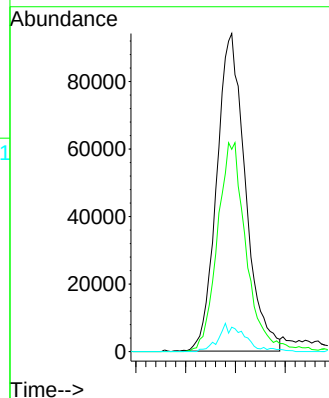
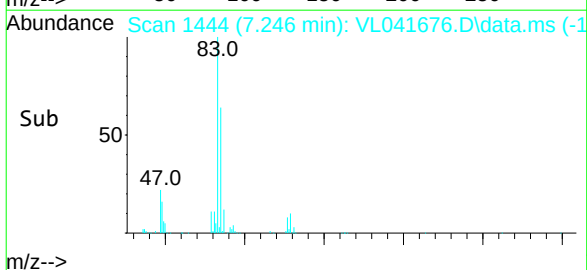
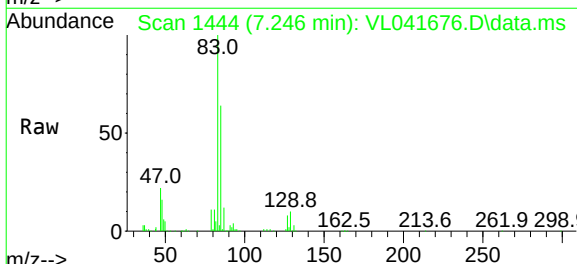
Manual Integrations  
APPROVED

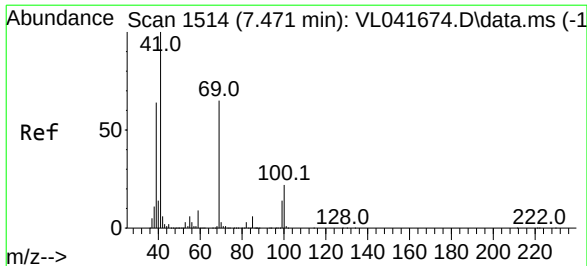
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#42  
Bromodichloromethane  
Concen: 0.974 ppbv  
RT: 7.246 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 83 Resp: 188568  
Ion Ratio Lower Upper  
83 100  
85 63.7 51.2 76.8  
127 7.7 6.0 9.0





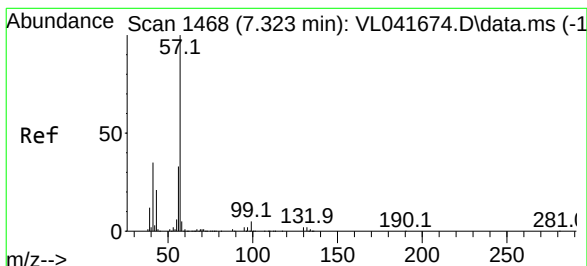
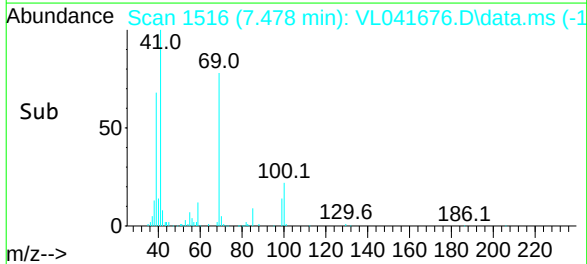
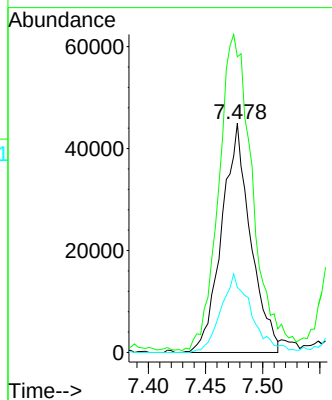
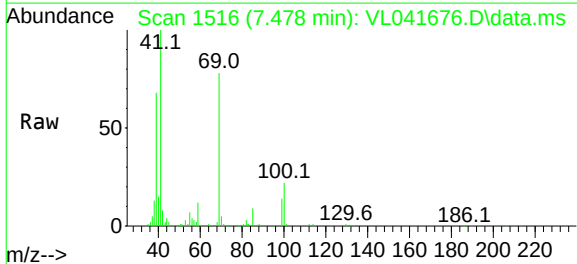
#43  
Methyl Methacrylate  
Concen: 0.910 ppbv  
RT: 7.478 min Scan# 1514  
Delta R.T. 0.006 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 69 Resp: 78902  
Ion Ratio Lower Upper  
69 100  
41 164.4 119.8 179.6  
100 36.2 27.3 40.9

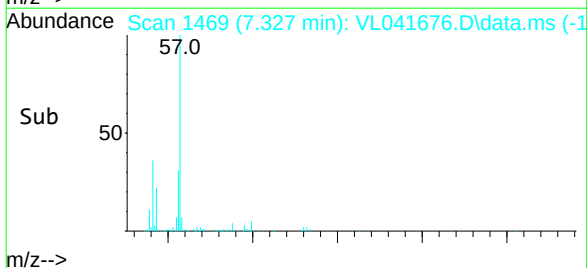
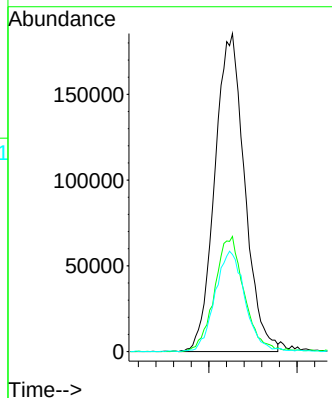
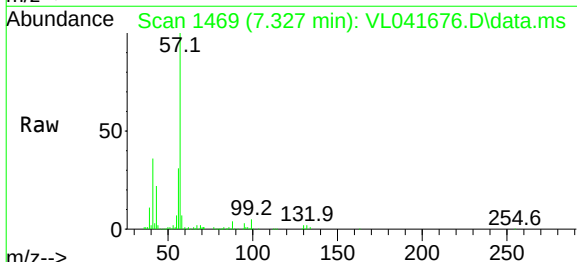
Manual Integrations  
APPROVED

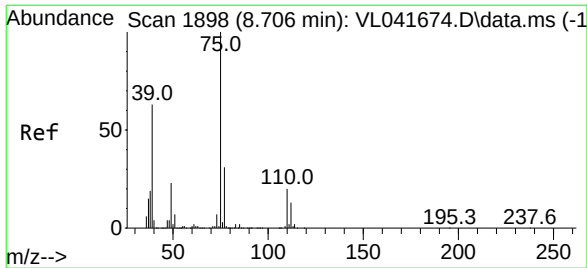
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#44  
2,2,4-Trimethylpentane  
Concen: 1.041 ppbv  
RT: 7.327 min Scan# 1469  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 57 Resp: 435343  
Ion Ratio Lower Upper  
57 100  
41 36.1 27.0 40.6  
56 32.1 25.8 38.6





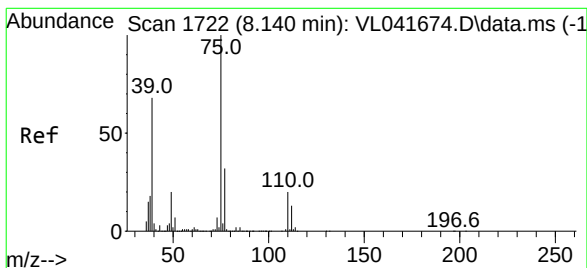
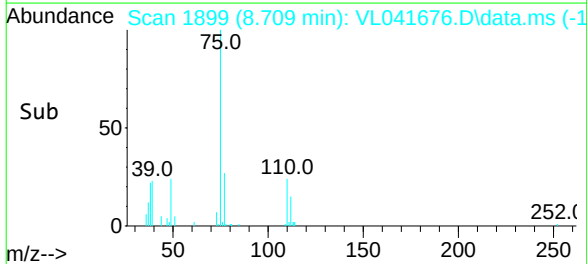
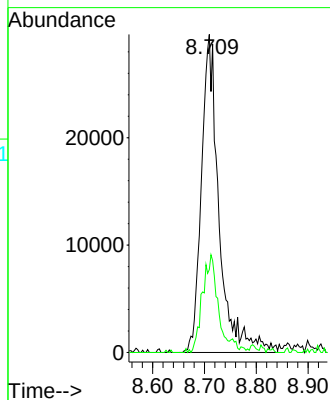
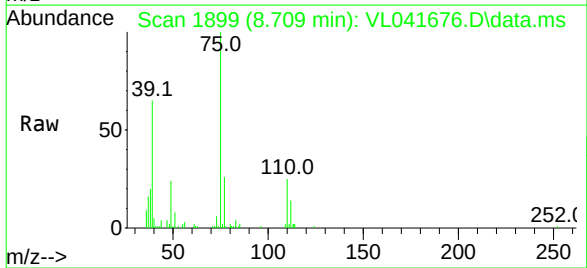
#45  
t-1,3-Dichloropropene  
Concen: 0.904 ppbv m  
RT: 8.709 min Scan# 1898  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 75 Resp: 70088  
Ion Ratio Lower Upper  
75 100  
77 26.1 24.7 37.1

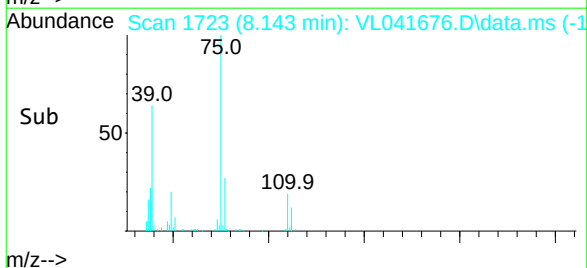
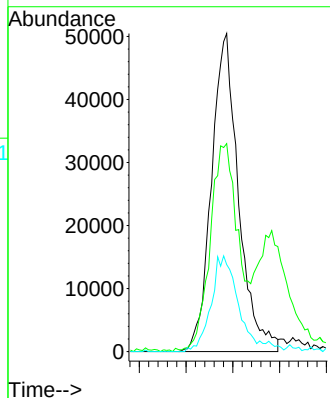
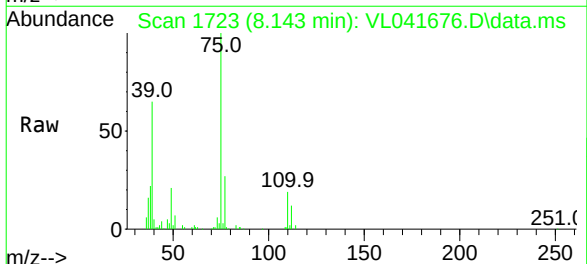
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

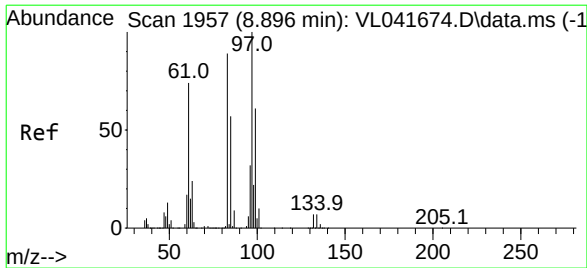


#46  
cis-1,3-Dichloropropene  
Concen: 0.901 ppbv  
RT: 8.143 min Scan# 1723  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 75 Resp: 101425  
Ion Ratio Lower Upper  
75 100  
39 64.8 54.1 81.1  
77 27.4 25.3 37.9







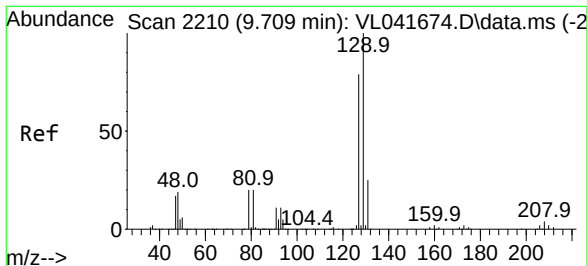
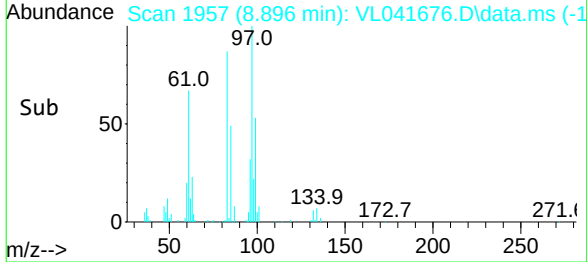
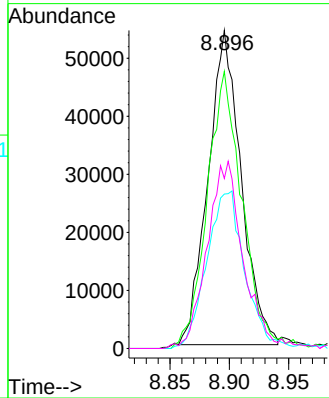
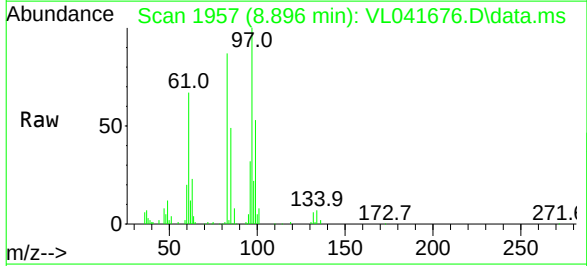
#47  
1,1,2-Trichloroethane  
Concen: 0.997 ppbv  
RT: 8.896 min Scan# 1957  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

|             |              |
|-------------|--------------|
| Tgt Ion: 97 | Resp: 104883 |
| Ion Ratio   | Lower Upper  |
| 97 100      |              |
| 83 86.1     | 71.0 106.6   |
| 85 48.2     | 45.4 68.2    |
| 99 53.2     | 49.0 73.6    |

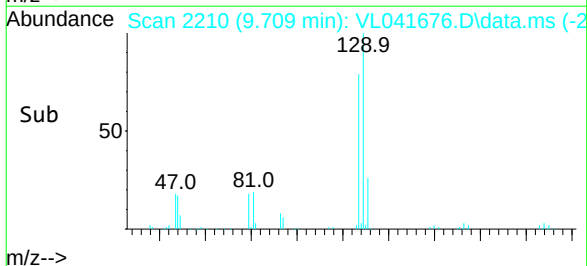
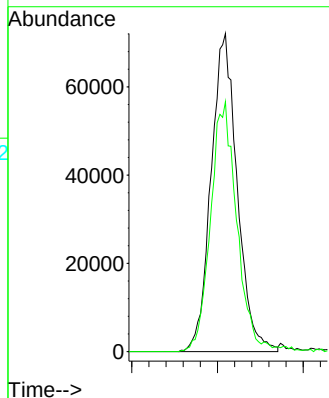
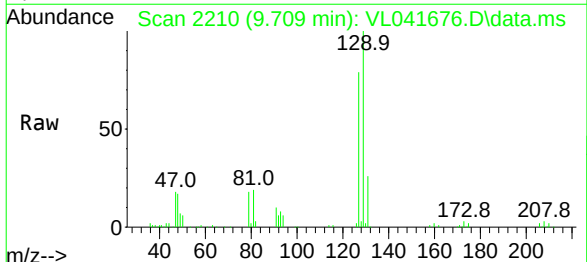
Manual Integrations  
APPROVED

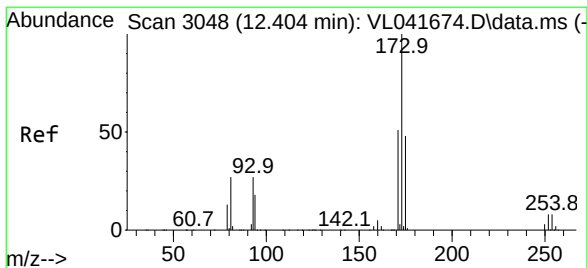
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#48  
Dibromochloromethane  
Concen: 0.952 ppbv  
RT: 9.709 min Scan# 2210  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

|              |              |
|--------------|--------------|
| Tgt Ion: 129 | Resp: 152757 |
| Ion Ratio    | Lower Upper  |
| 129 100      |              |
| 127 79.4     | 39.1 117.2   |





#49

Bromoform

Concen: 0.931 ppbv m

RT: 12.400 min Scan# 3048

Delta R.T. -0.003 min

Lab File: VL041676.D

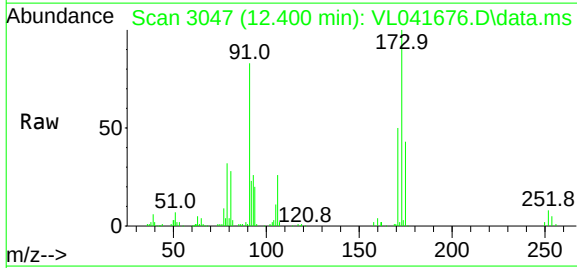
Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001



Tgt Ion: 173 Resp: 127488

Ion Ratio Lower Upper

173 100

175 0.0 39.2 58.8

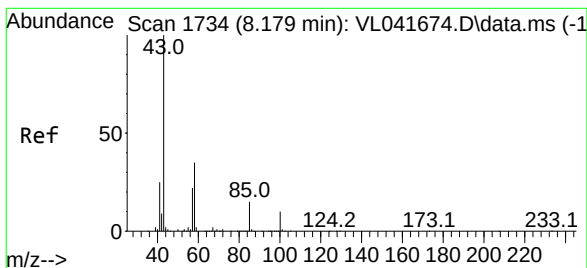
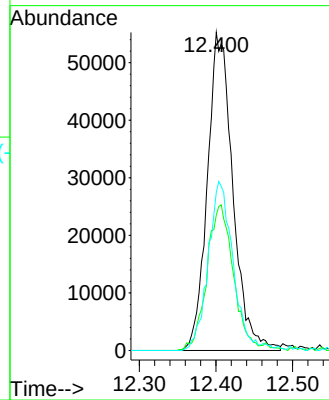
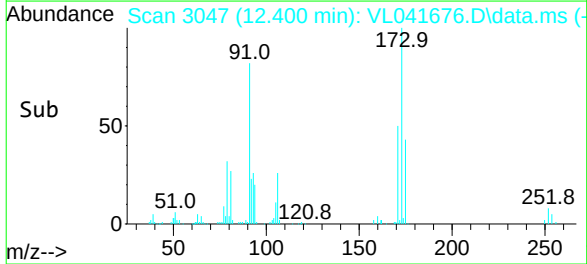
171 0.0 41.7 62.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#50

4-Methyl-2-Pentanone

Concen: 0.985 ppbv

RT: 8.188 min Scan# 1737

Delta R.T. 0.010 min

Lab File: VL041676.D

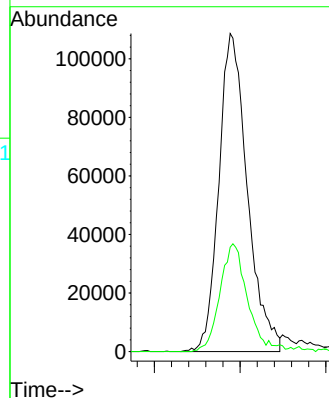
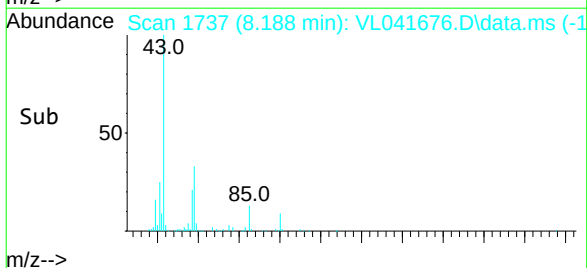
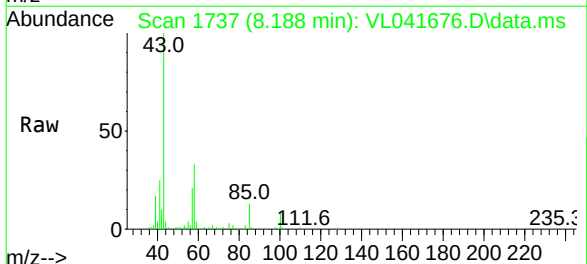
Acq: 7 Nov 2024 11:34

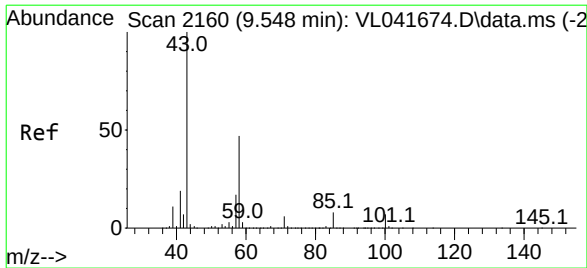
Tgt Ion: 43 Resp: 250885

Ion Ratio Lower Upper

43 100

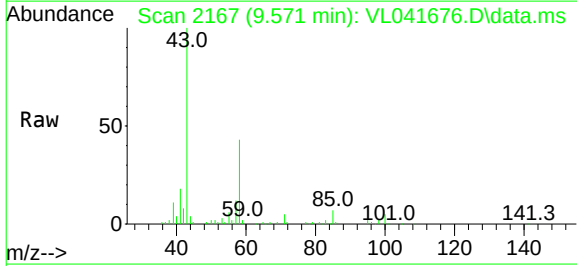
58 34.0 27.7 41.5





#51  
2-Hexanone  
Concen: 0.892 ppbv  
RT: 9.571 min Scan# 2160  
Delta R.T. 0.023 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

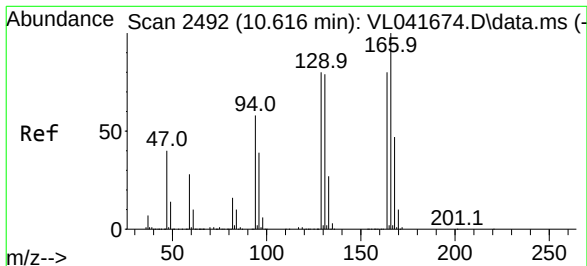
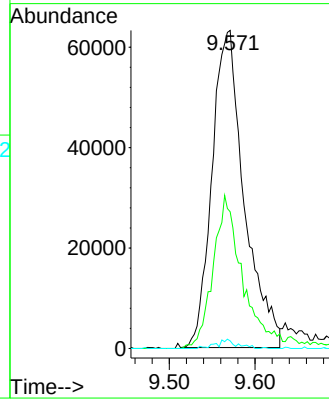
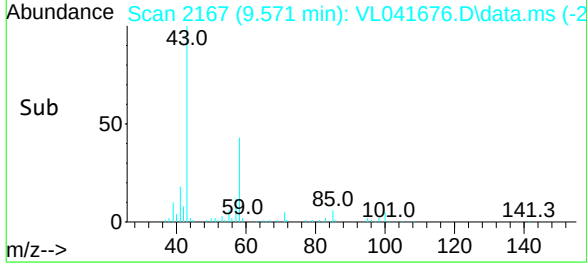
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



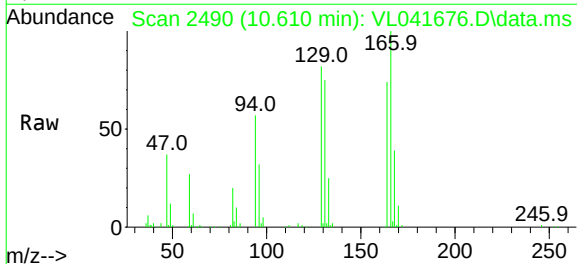
Tgt Ion: 43 Resp: 165158  
Ion Ratio Lower Upper  
43 100  
58 46.5 37.0 55.6  
98 1.8 0.6 0.8#

Manual Integrations  
APPROVED

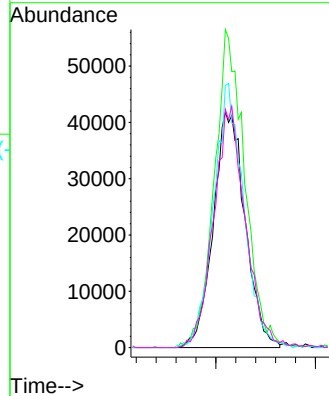
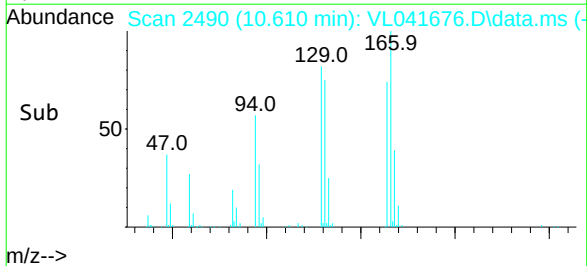
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

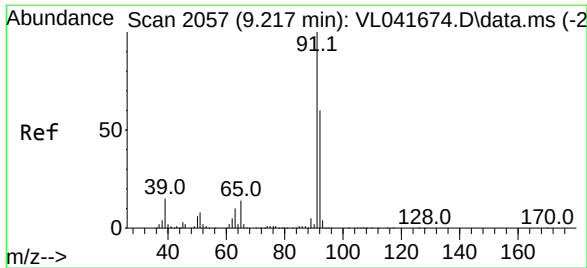


#52  
Tetrachloroethene  
Concen: 1.102 ppbv  
RT: 10.610 min Scan# 2490  
Delta R.T. -0.006 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34



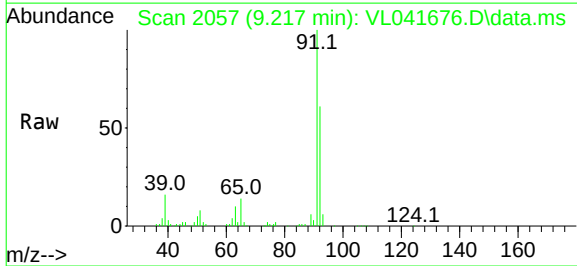
Tgt Ion:164 Resp: 92977  
Ion Ratio Lower Upper  
164 100  
166 133.1 100.2 150.4  
129 110.9 79.7 119.5  
131 100.6 79.0 118.4





#53  
Toluene  
Concen: 0.976 ppbv  
RT: 9.217 min Scan# 2057  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

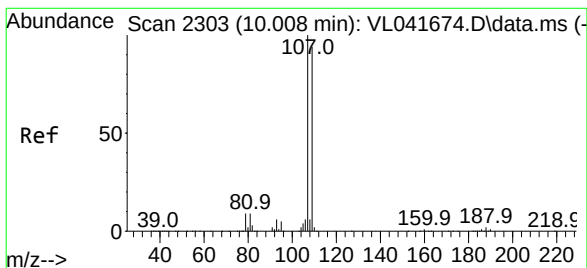
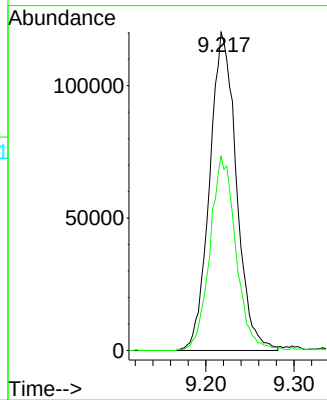
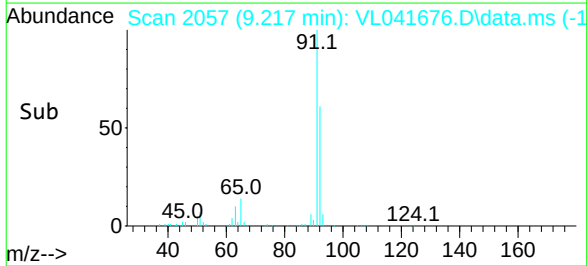
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC001



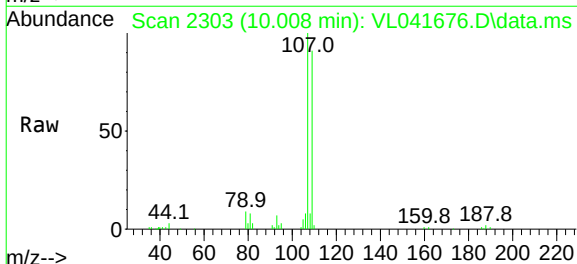
Tgt Ion: 91 Resp: 253501  
Ion Ratio Lower Upper  
91 100  
92 59.4 49.0 73.4

Manual Integrations  
APPROVED

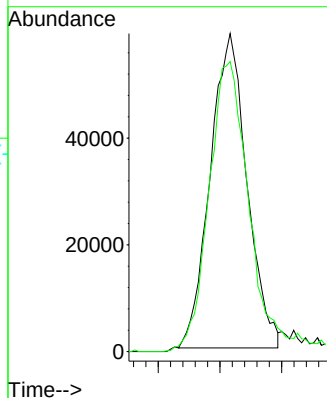
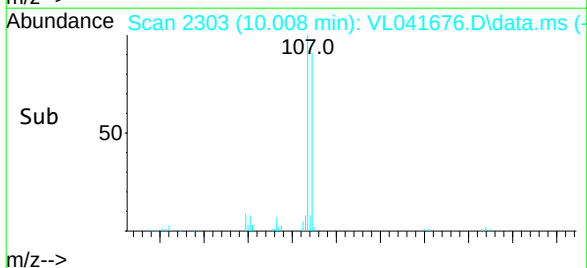
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

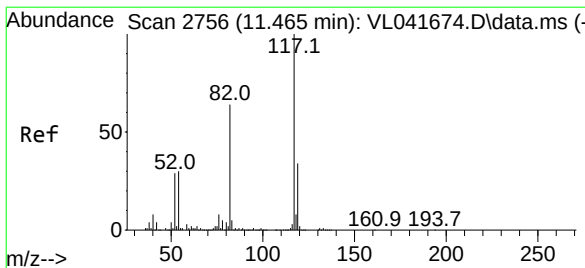


#54  
1,2-Dibromoethane  
Concen: 0.994 ppbv  
RT: 10.008 min Scan# 2303  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34



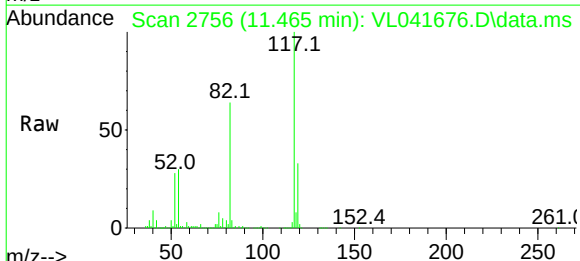
Tgt Ion:107 Resp: 122096  
Ion Ratio Lower Upper  
107 100  
109 90.5 74.9 112.3





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.465 min Scan# 2756  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

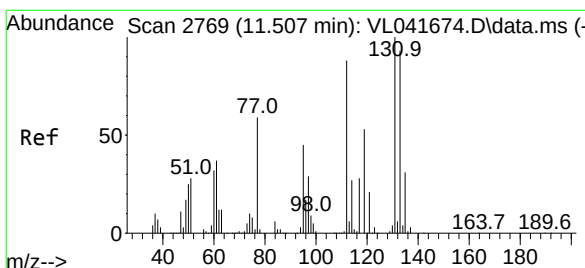
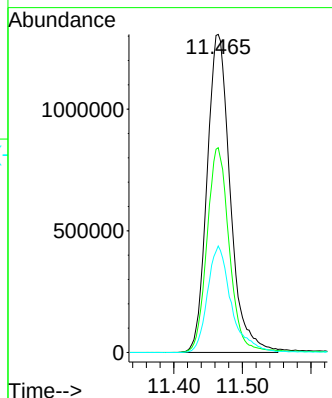
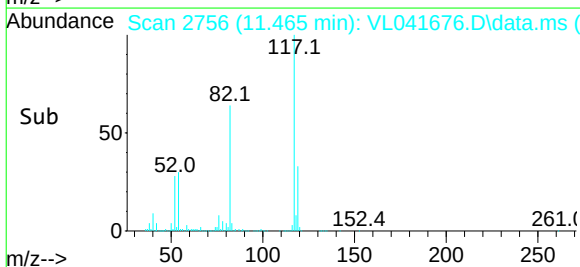
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



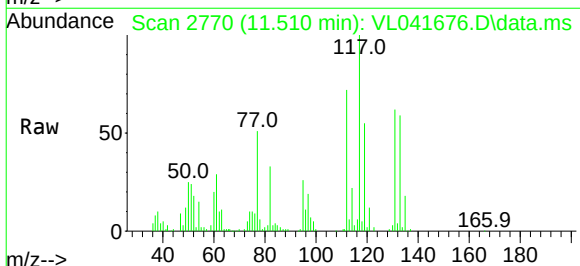
Tgt Ion:117 Resp: 3067671  
Ion Ratio Lower Upper  
117 100  
82 63.0 49.8 74.8  
119 34.8 24.2 36.4

Manual Integrations  
APPROVED

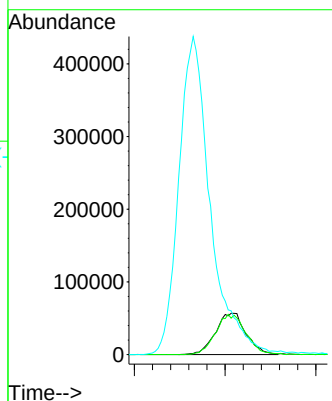
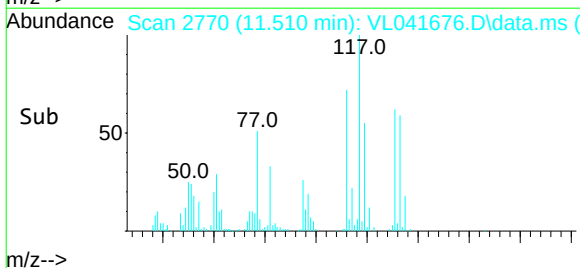
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

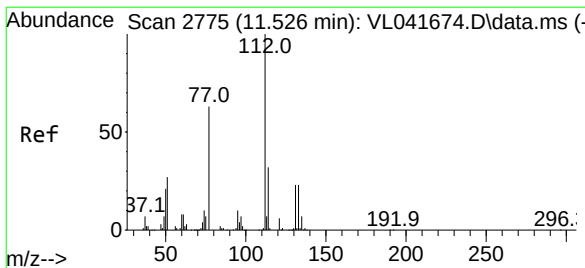


#56  
1,1,1,2-Tetrachloroethane  
Concen: 1.043 ppbv  
RT: 11.510 min Scan# 2770  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34



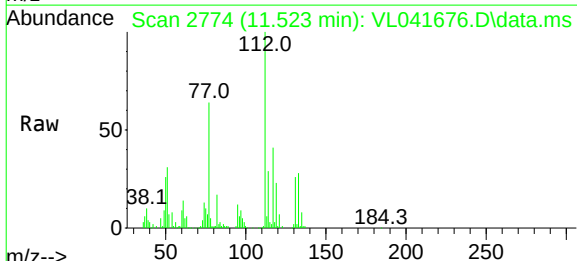
Tgt Ion:131 Resp: 133283  
Ion Ratio Lower Upper  
131 100  
133 96.2 76.5 114.7  
119 798.1 49.8 74.8#





#57  
Chlorobenzene  
Concen: 1.047 ppbv  
RT: 11.523 min Scan# 2775  
Delta R.T. -0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

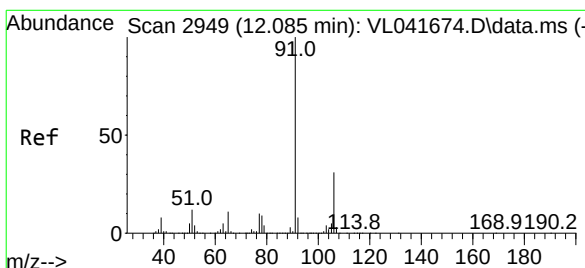
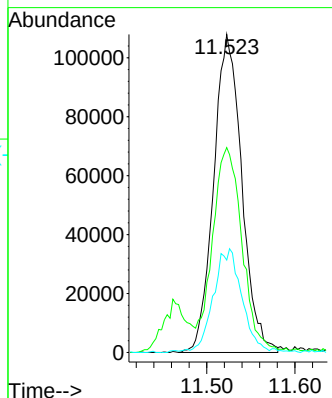
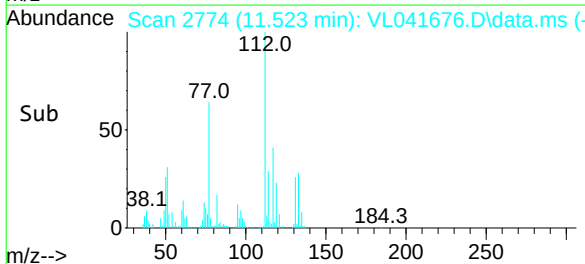
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion: 112 Resp: 239417  
Ion Ratio Lower Upper  
112 100  
77 63.4 51.4 77.2  
114 28.6 28.4 34.8

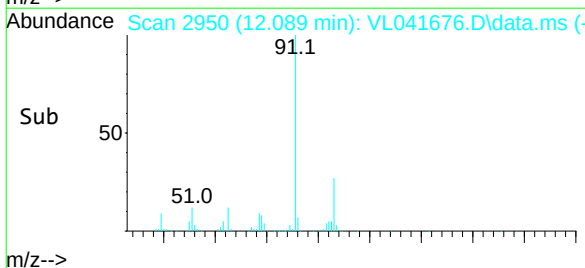
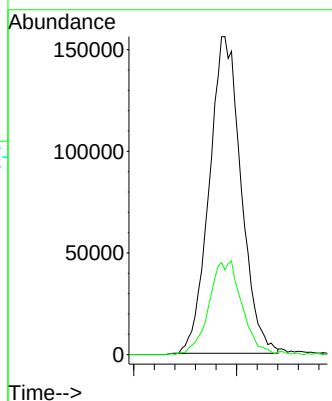
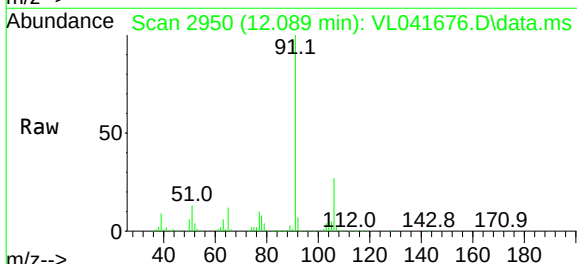
Manual Integrations  
APPROVED

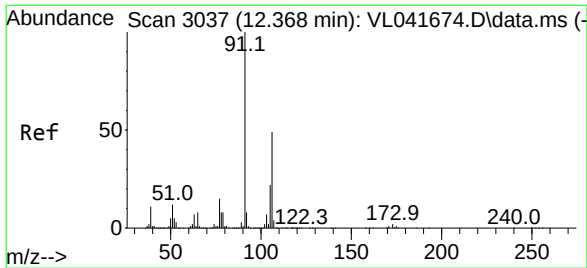
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#58  
Ethyl Benzene  
Concen: 0.986 ppbv  
RT: 12.089 min Scan# 2950  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

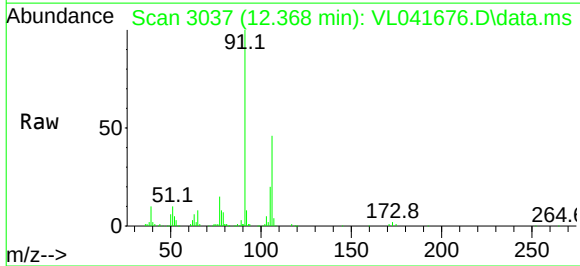
Tgt Ion: 91 Resp: 334939  
Ion Ratio Lower Upper  
91 100  
106 26.3 24.9 37.3





#59  
m/p-Xylene  
Concen: 2.056 ppbv m  
RT: 12.368 min Scan# 3037  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

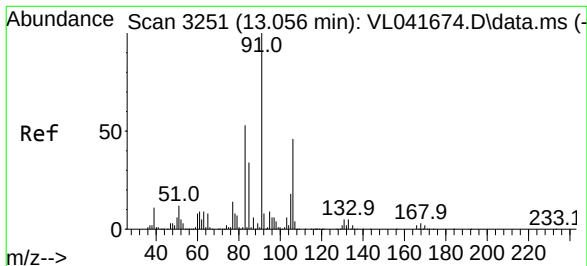
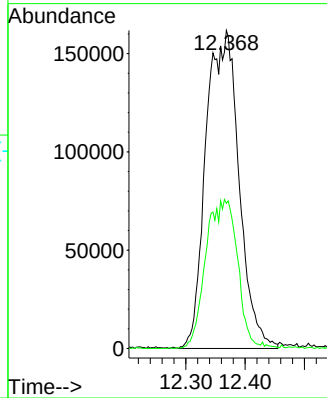
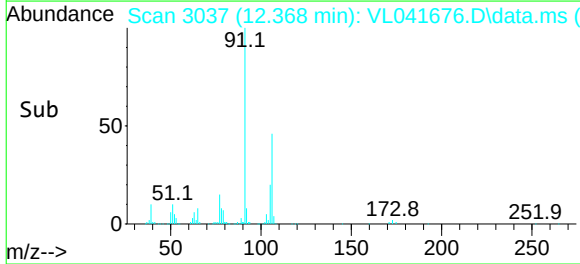
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



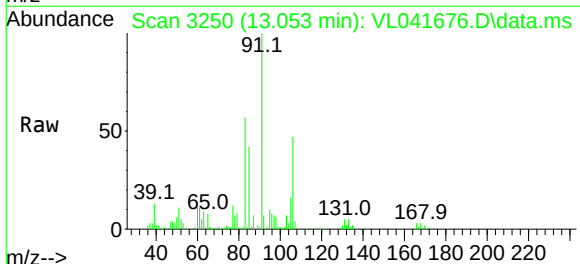
Tgt Ion: 91 Resp: 625077  
Ion Ratio Lower Upper  
91 100  
106 45.1 36.9 55.3

Manual Integrations  
APPROVED

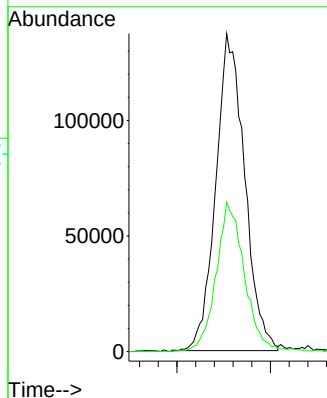
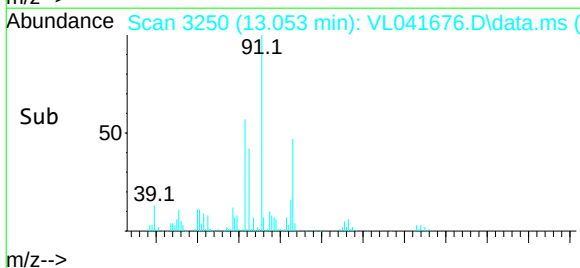
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

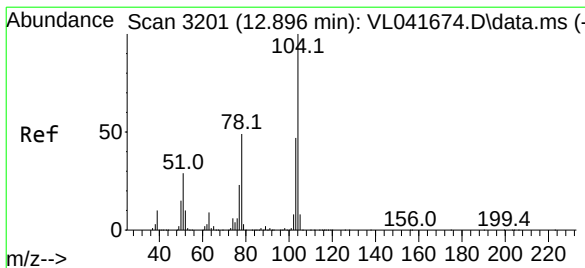


#60  
o-Xylene  
Concen: 1.012 ppbv  
RT: 13.053 min Scan# 3250  
Delta R.T. -0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34



Tgt Ion: 91 Resp: 293793  
Ion Ratio Lower Upper  
91 100  
106 46.7 23.2 69.6





#61

Styrene

Concen: 0.859 ppbv

RT: 12.892 min Scan# 3201

Delta R.T. -0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

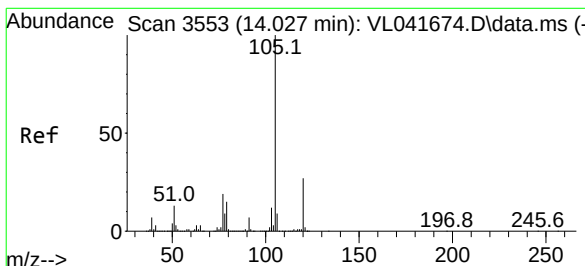
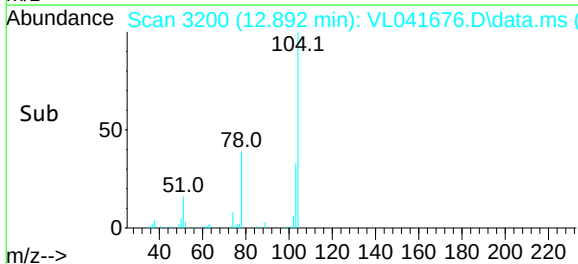
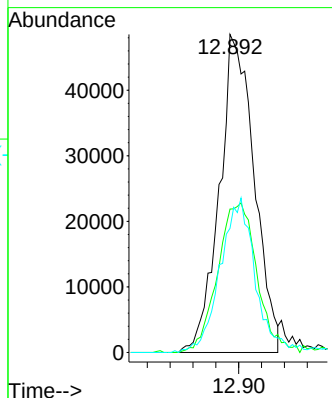
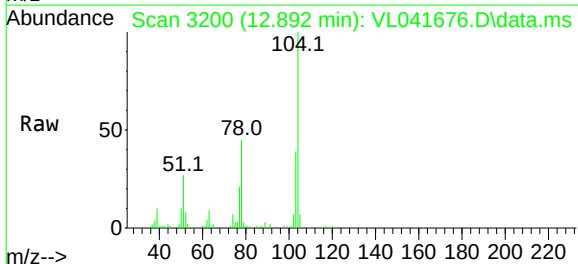
ClientSampleId :

VSTDICC001

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 104   | Resp: | 102947 |
| Ion Ratio | Lower | Upper |        |
| 104       | 100   |       |        |
| 78        | 52.9  | 39.8  | 59.8   |
| 103       | 49.4  | 37.4  | 56.0   |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#62

Isopropylbenzene

Concen: 1.045 ppbv

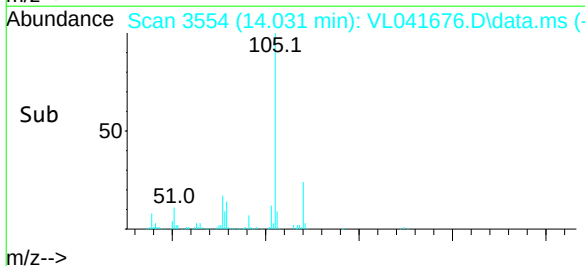
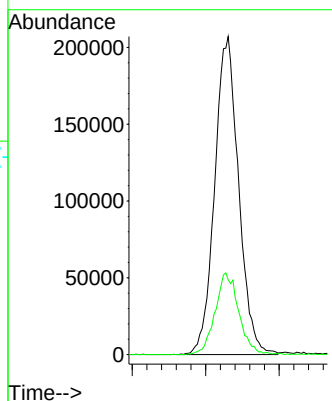
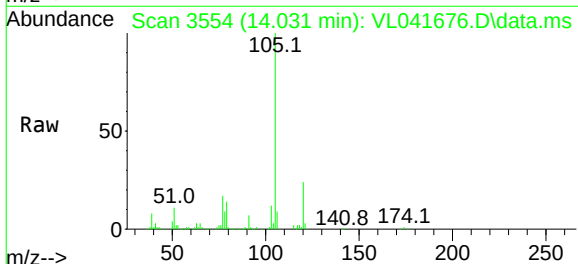
RT: 14.031 min Scan# 3554

Delta R.T. 0.003 min

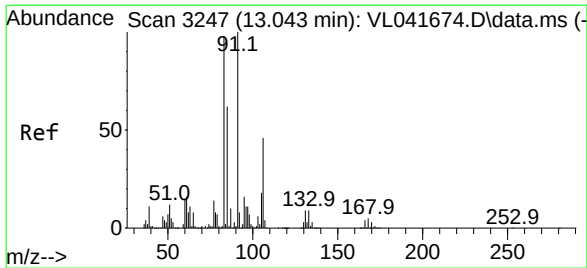
Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 468382 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 25.4  | 21.1  | 31.7   |







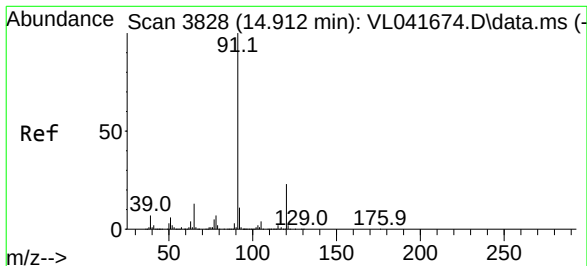
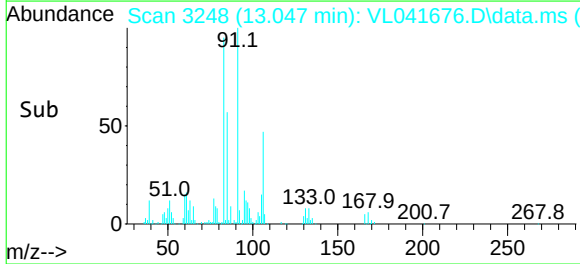
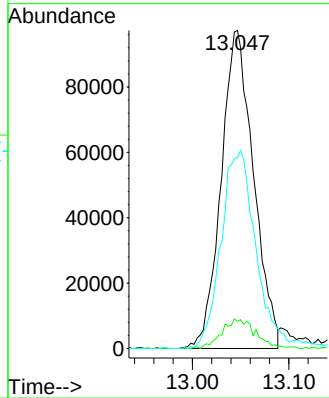
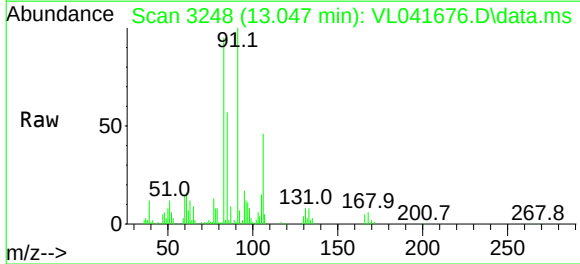
#63  
1,1,2,2-Tetrachloroethane  
Concen: 1.074 ppbv  
RT: 13.047 min Scan# 3247  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 83    | Resp: | 226867 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 9.8   | 4.8   | 14.3   |
| 85        | 68.1  | 32.6  | 98.0   |

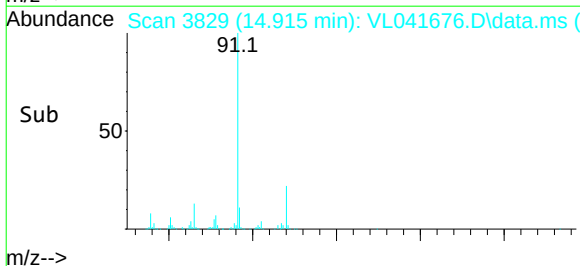
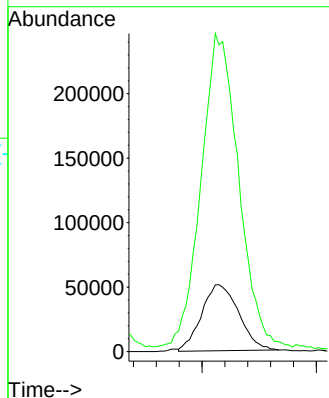
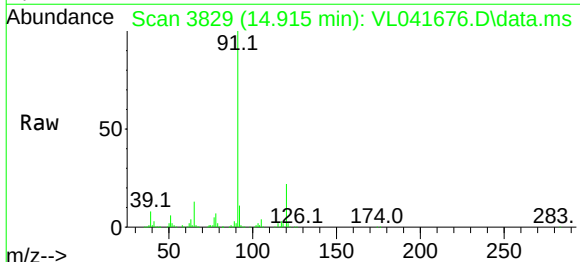
Manual Integrations  
APPROVED

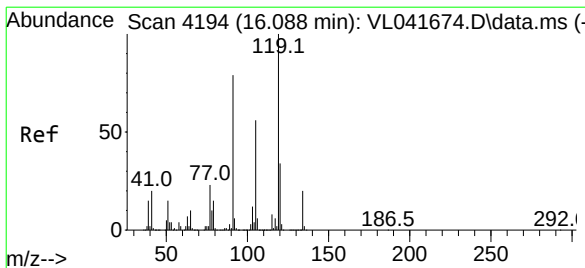
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#64  
n-propylbenzene  
Concen: 0.987 ppbv  
RT: 14.915 min Scan# 3829  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

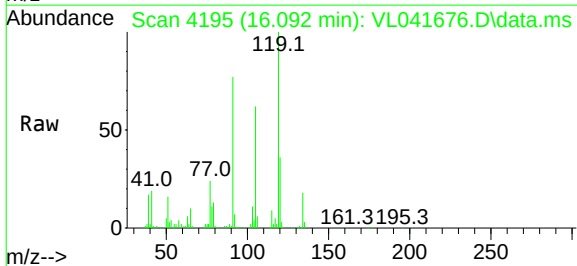
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 120   | Resp: | 115677 |
| Ion Ratio | Lower | Upper |        |
| 120       | 100   |       |        |
| 91        | 500.0 | 362.4 | 543.6  |





#65  
tert-Butylbenzene  
Concen: 1.053 ppbv  
RT: 16.092 min Scan# 4195  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

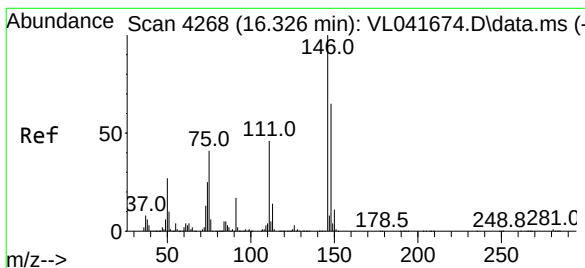
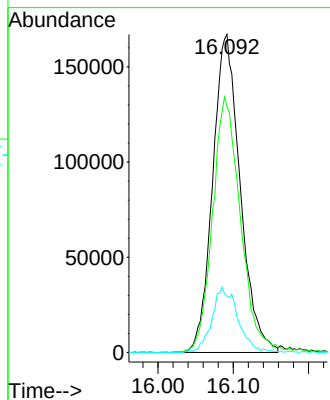
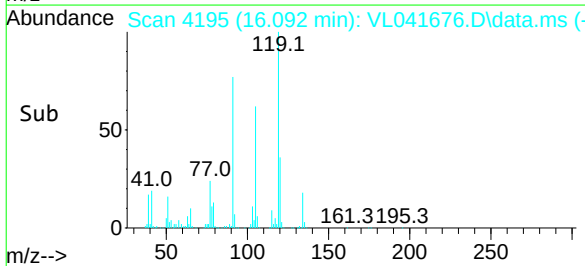
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion: 119 Resp: 424019  
Ion Ratio Lower Upper  
119 100  
91 82.6 64.3 96.5  
134 19.6 15.8 23.8

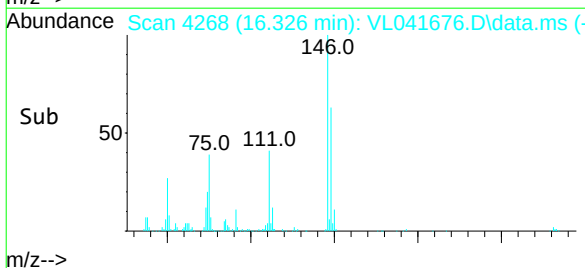
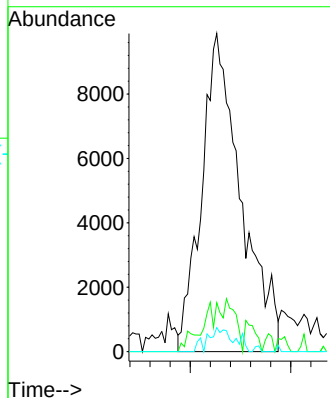
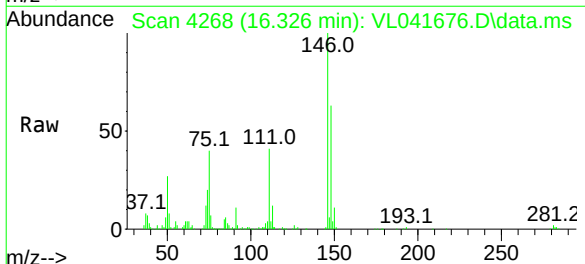
Manual Integrations  
APPROVED

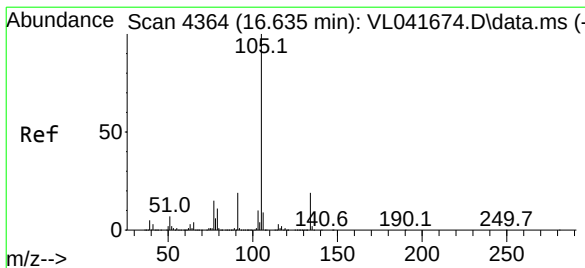
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#66  
Benzyl Chloride  
Concen: 0.929 ppbv m  
RT: 16.326 min Scan# 4268  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

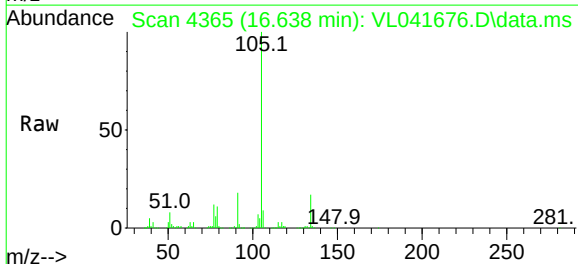
Tgt Ion: 91 Resp: 26944  
Ion Ratio Lower Upper  
91 100  
126 17.4 13.8 20.6  
128 4.9 4.3 6.5





#67  
sec-Butylbenzene  
Concen: 1.051 ppbv  
RT: 16.638 min Scan# 4364  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

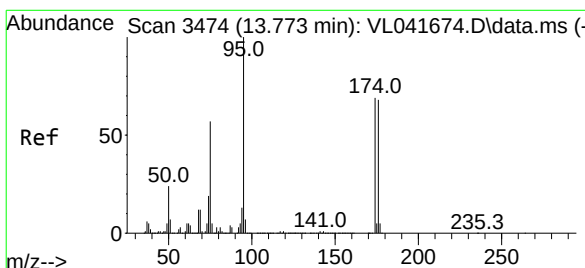
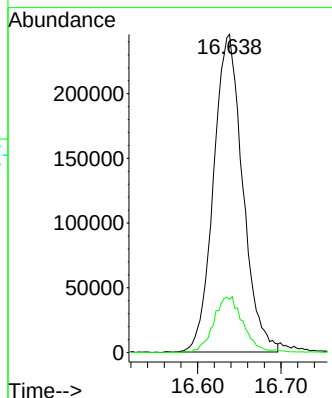
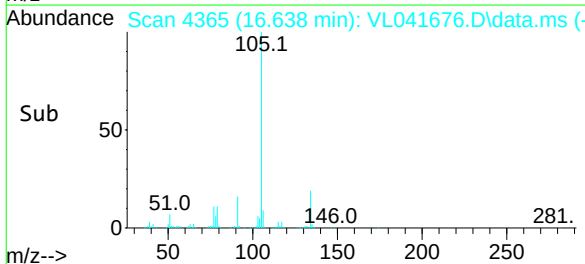
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



Tgt Ion: 105 Resp: 596449  
Ion Ratio Lower Upper  
105 100  
134 18.0 14.6 22.0

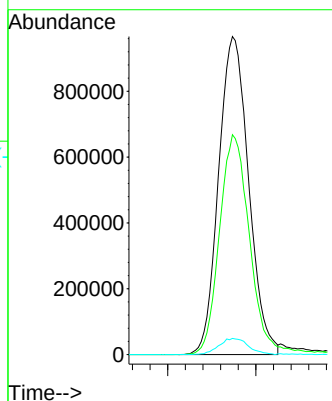
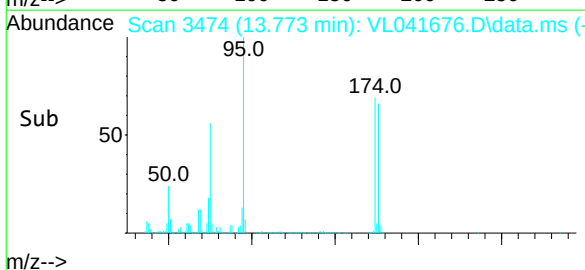
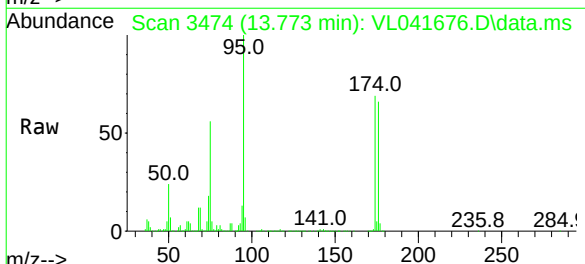
Manual Integrations  
APPROVED

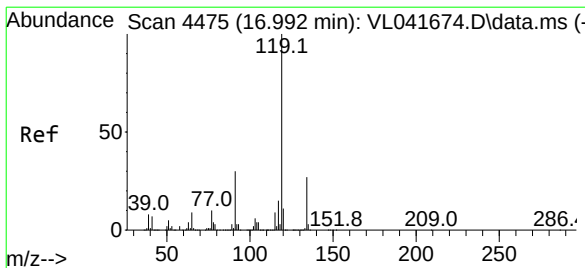
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.073 ppbv  
RT: 13.773 min Scan# 3474  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

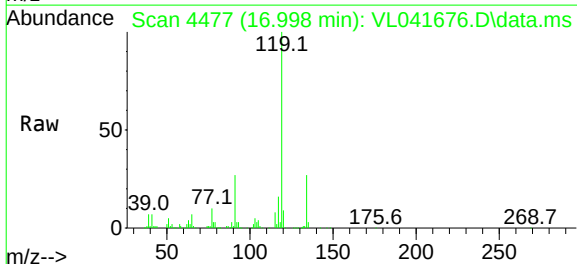
Tgt Ion: 95 Resp: 2285234  
Ion Ratio Lower Upper  
95 100  
174 70.7 55.6 83.4  
175 5.1 4.2 6.2





#69  
p-Isopropyltoluene  
Concen: 1.048 ppbv  
RT: 16.998 min Scan# 4475  
Delta R.T. 0.007 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

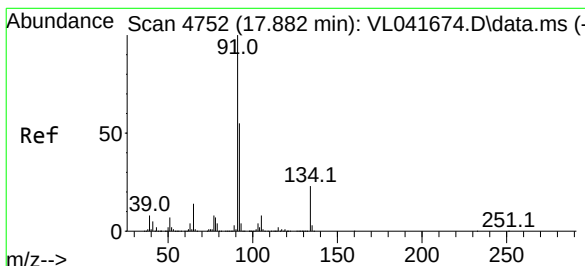
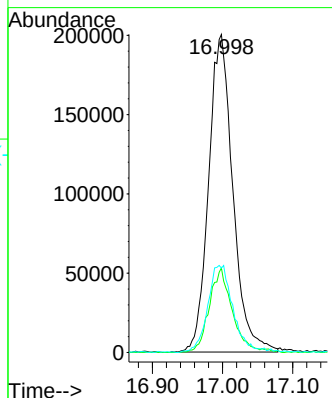
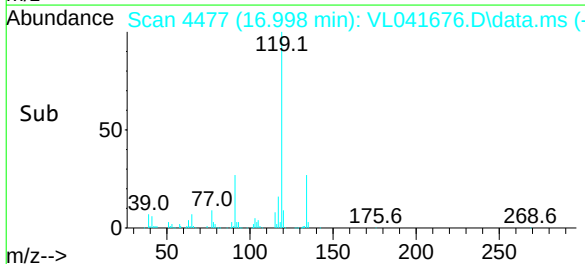
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



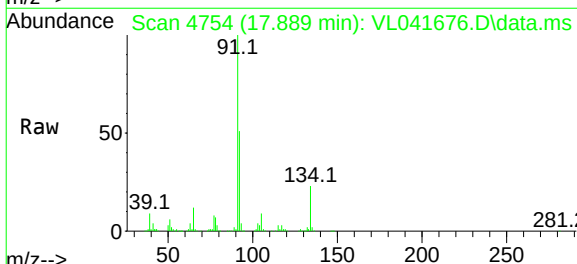
Tgt Ion: 119 Resp: 480893  
Ion Ratio Lower Upper  
119 100  
134 25.5 20.8 31.2  
91 29.1 23.2 34.8

Manual Integrations  
APPROVED

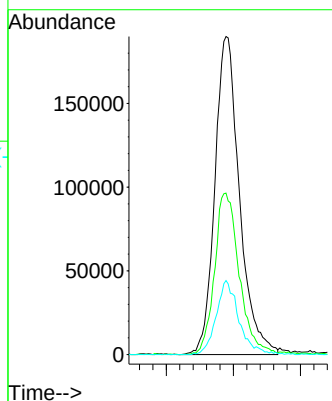
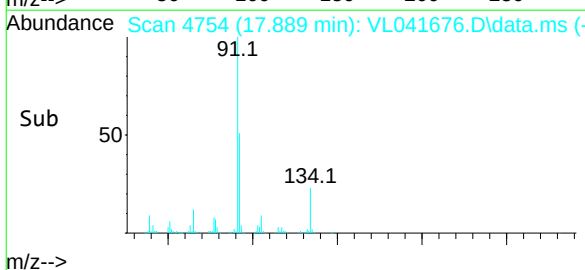
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

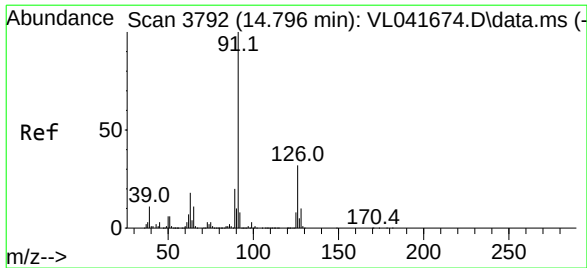


#70  
n-Butylbenzene  
Concen: 1.030 ppbv  
RT: 17.889 min Scan# 4754  
Delta R.T. 0.007 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34



Tgt Ion: 91 Resp: 484367  
Ion Ratio Lower Upper  
91 100  
92 51.6 43.3 64.9  
134 21.5 18.4 27.6





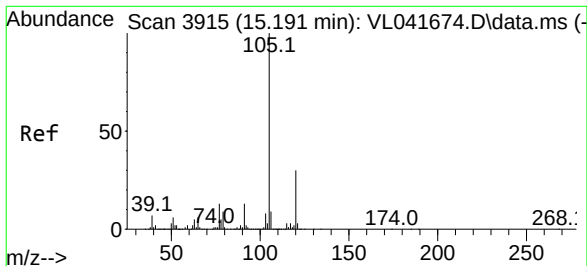
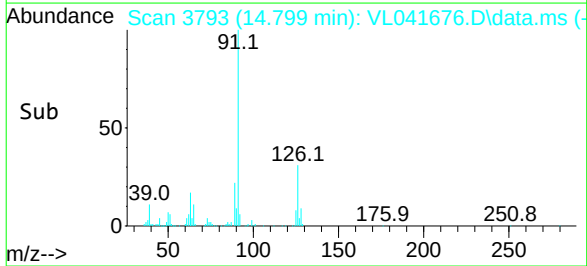
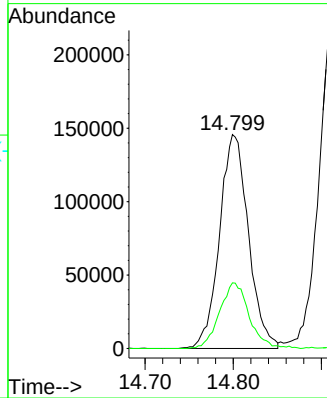
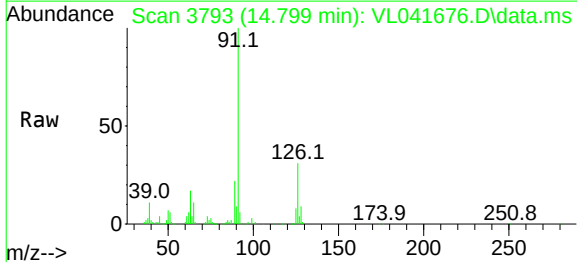
#71  
2-Chlorotoluene  
Concen: 1.024 ppbv  
RT: 14.799 min Scan# 3792  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 91 Resp: 331921  
Ion Ratio Lower Upper  
91 100  
126 31.5 12.8 51.0

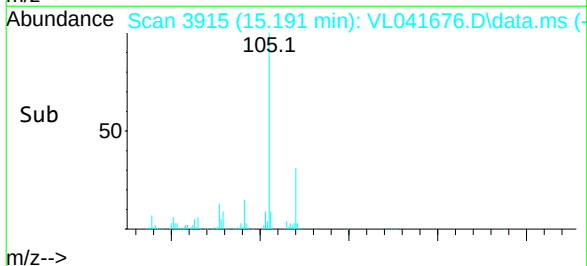
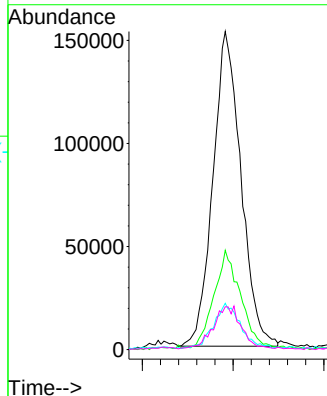
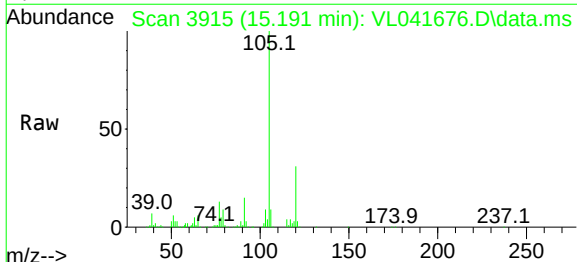
Manual Integrations  
APPROVED

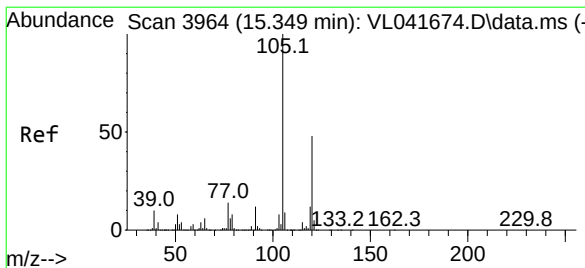
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#72  
4-Ethyltoluene  
Concen: 0.972 ppbv  
RT: 15.191 min Scan# 3915  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion:105 Resp: 327541  
Ion Ratio Lower Upper  
105 100  
120 32.3 25.0 37.4  
91 13.6 10.6 15.8  
77 15.3 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.982 ppbv

RT: 15.352 min Scan# 39

Delta R.T. 0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 290287

Ion Ratio Lower Upper

105 100

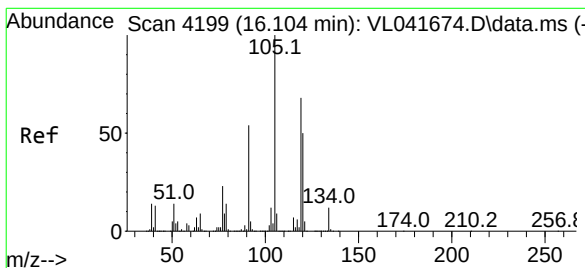
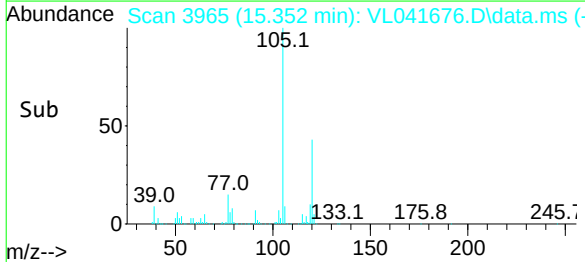
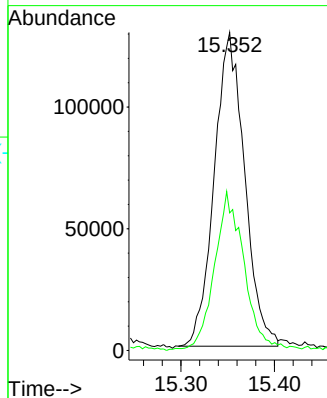
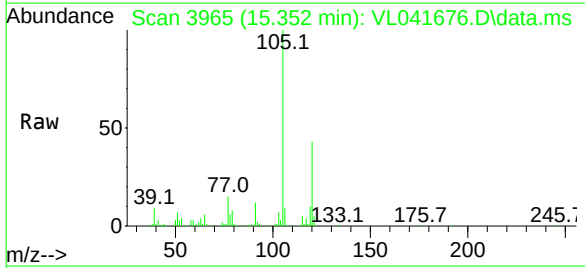
120 43.2 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#74

1,2,4-Trimethylbenzene

Concen: 1.047 ppbv

RT: 16.111 min Scan# 4201

Delta R.T. 0.007 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Tgt Ion:105 Resp: 360083

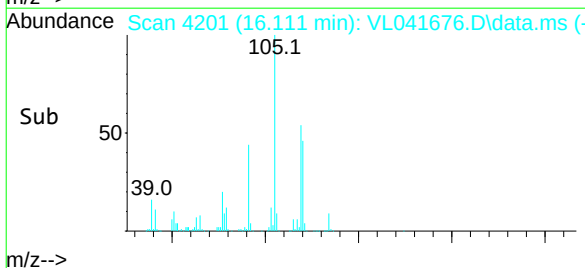
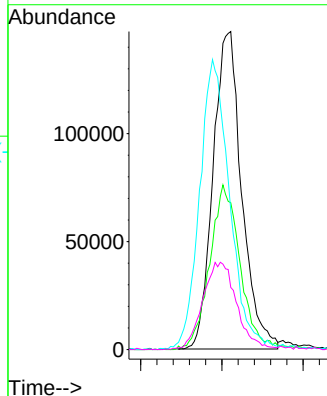
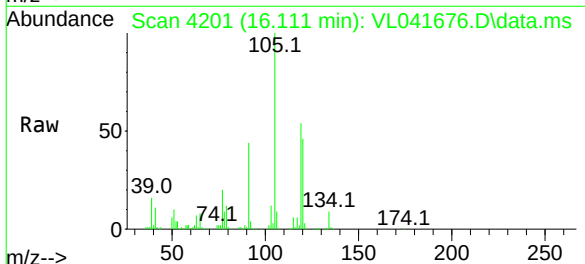
Ion Ratio Lower Upper

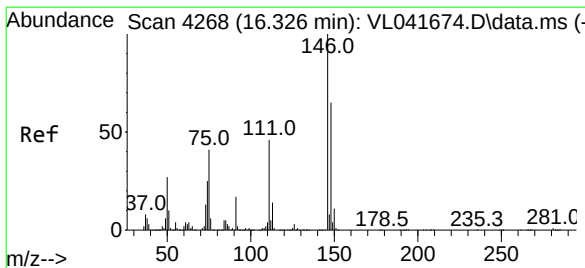
105 100

120 45.1 39.8 59.8

91 42.7 43.2 64.8#

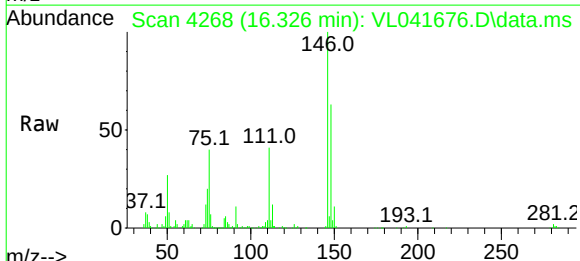
77 18.7 18.5 27.7





#75  
1,3-Dichlorobenzene  
Concen: 1.028 ppbv  
RT: 16.326 min Scan# 4268  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

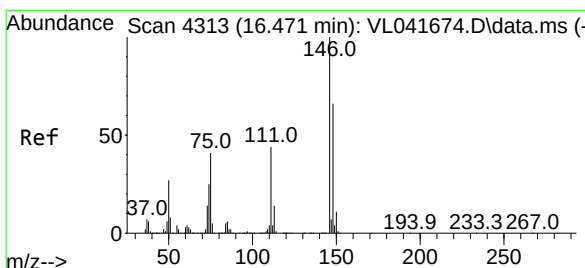
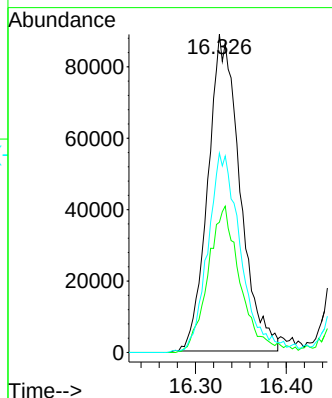
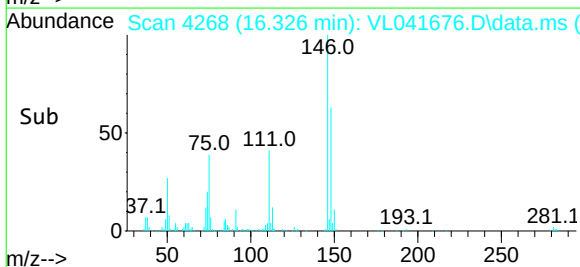
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



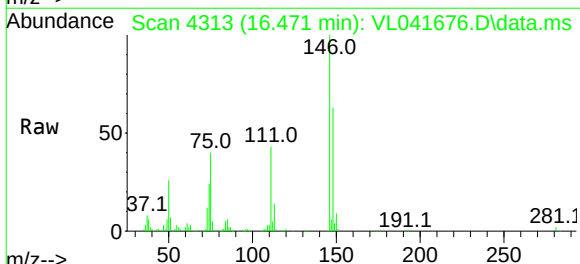
Tgt Ion:146 Resp: 218228  
Ion Ratio Lower Upper  
146 100  
111 46.5 22.8 68.3  
148 65.1 32.4 97.0

Manual Integrations  
APPROVED

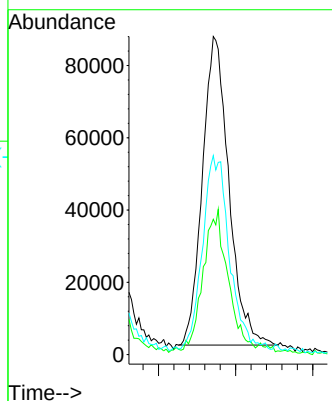
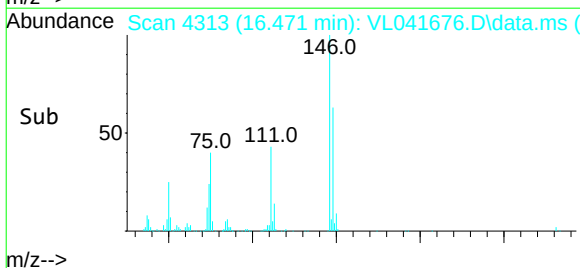
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

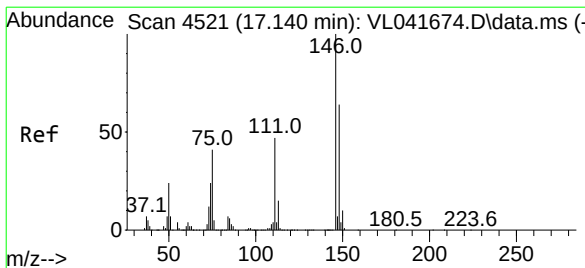


#76  
1,4-Dichlorobenzene  
Concen: 0.973 ppbv  
RT: 16.471 min Scan# 4313  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34



Tgt Ion:146 Resp: 203100  
Ion Ratio Lower Upper  
146 100  
111 48.9 22.1 66.3  
148 69.1 33.3 99.8





#77

1,2-Dichlorobenzene

Concen: 1.050 ppbv

RT: 17.143 min Scan# 4521

Delta R.T. 0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

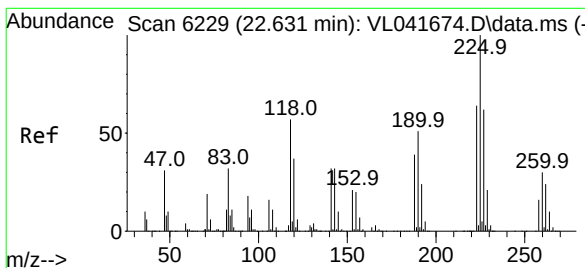
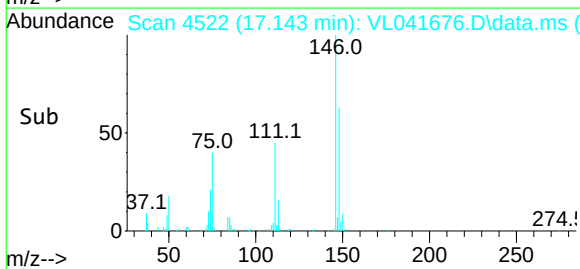
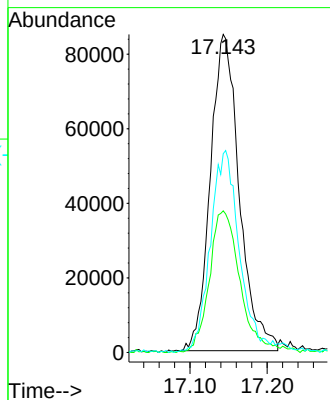
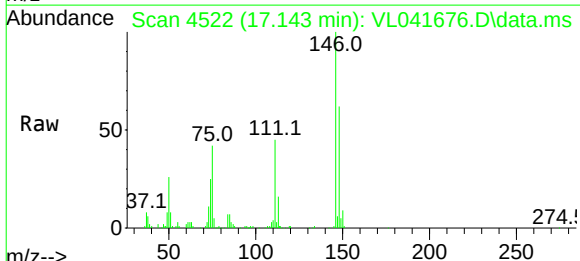
ClientSampleId :

VSTDIC001

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 221404 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 48.3  | 23.4  | 70.3   |
| 148      | 66.2  | 32.1  | 96.5   |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#78

Hexachloro-1,3-Butadiene

Concen: 1.140 ppbv m

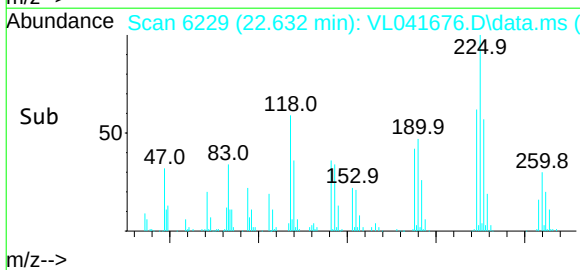
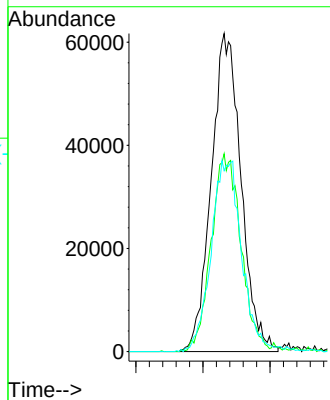
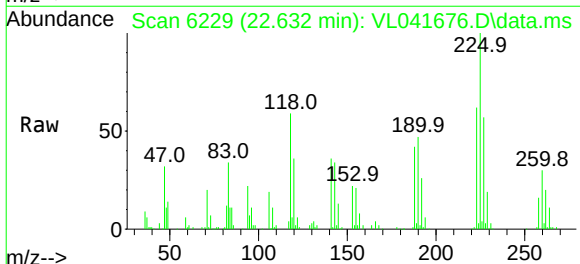
RT: 22.632 min Scan# 6229

Delta R.T. 0.000 min

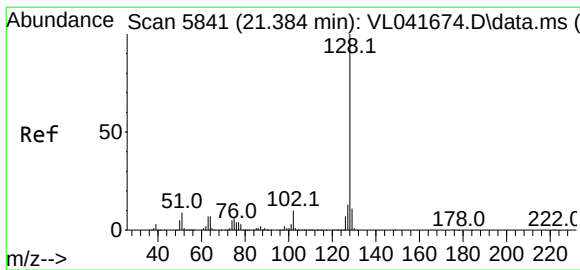
Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 225   | Resp: | 190183 |
| Ion      | Ratio | Lower | Upper  |
| 225      | 100   |       |        |
| 223      | 63.2  | 51.1  | 76.7   |
| 227      | 62.1  | 51.3  | 76.9   |

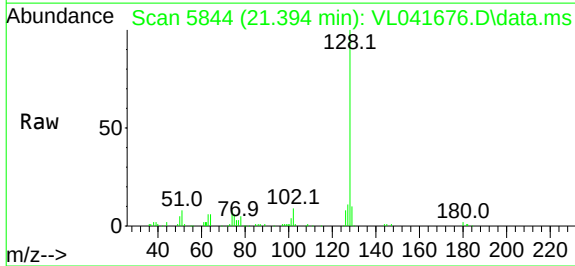






#79  
Naphthalene  
Concen: 1.070 ppbv m  
RT: 21.394 min Scan# 5844  
Delta R.T. 0.010 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

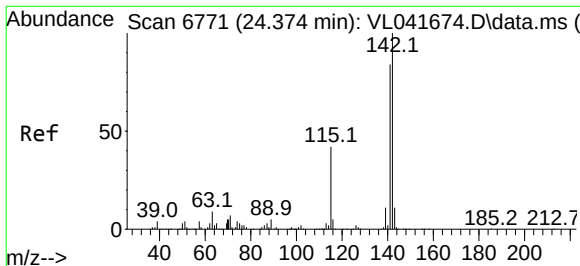
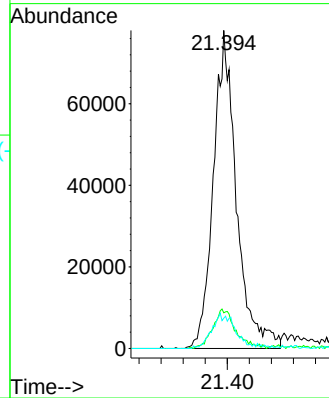
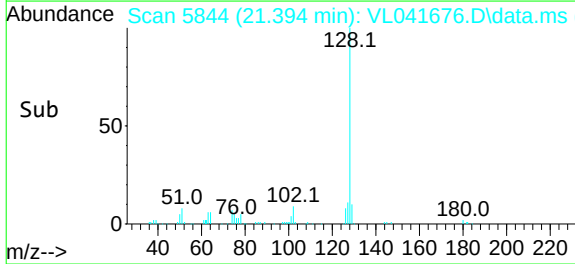
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



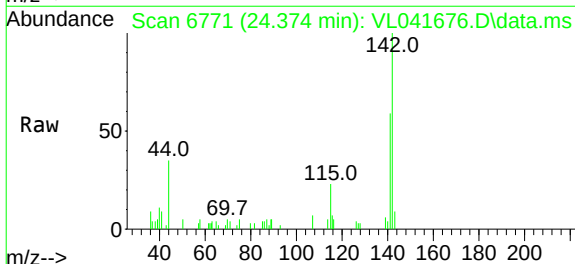
Tgt Ion:128 Resp: 226301  
Ion Ratio Lower Upper  
128 100  
127 11.2 10.5 15.7  
129 9.5 8.7 13.1

Manual Integrations  
APPROVED

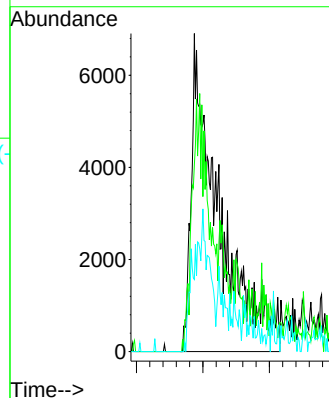
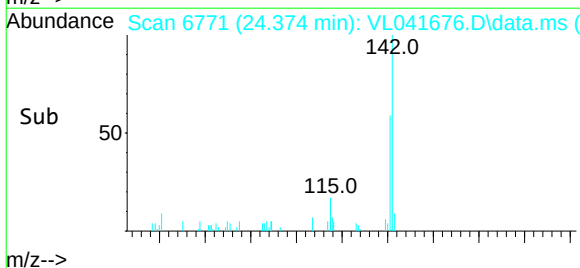
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

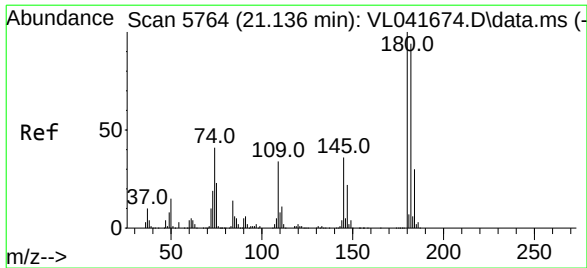


#80  
Naphthalene,2-methyl-  
Concen: 0.998 ppbv m  
RT: 24.374 min Scan# 6771  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34



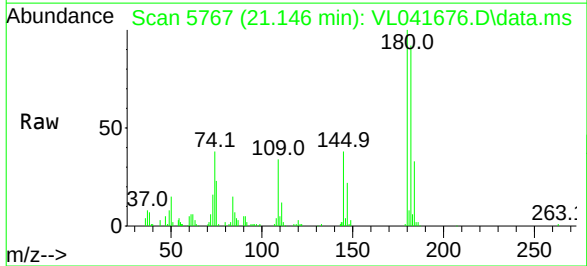
Tgt Ion:142 Resp: 39140  
Ion Ratio Lower Upper  
142 100  
141 48.6 68.1 102.1#  
115 32.3 33.1 49.7#





#81  
1,2,4-Trichlorobenzene  
Concen: 1.054 ppbv m  
RT: 21.146 min Scan# 57  
Delta R.T. 0.010 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

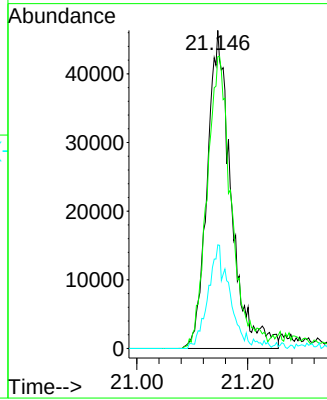
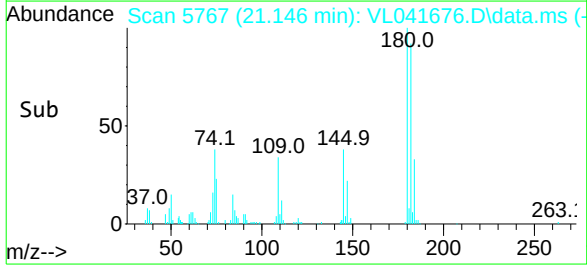
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 138641 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 93.4  | 78.2  | 117.2  |
| 184       | 30.6  | 25.0  | 37.4   |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041677.D  
 Acq On : 7 Nov 2024 12:13  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Nov 08 00:11:14 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.189  | 49   | 1153970  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.648  | 114  | 3232256  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.465 | 117  | 2900644  | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.777 95 2213310 10.318 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.200%

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.726 | 85  | 96069  | 0.461 | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 2.671 | 51  | 81180  | 0.540 | ppbv   | 99     |
| 4) Chloromethane              | 2.809 | 50  | 41203  | 0.517 | ppbv # | 86     |
| 5) Vinyl Chloride             | 2.915 | 62  | 36174  | 0.501 | ppbv   | 97     |
| 6) Bromomethane               | 3.118 | 94  | 19426  | 0.511 | ppbv # | 79     |
| 7) Chloroethane               | 3.192 | 64  | 13079  | 0.500 | ppbv   | 90     |
| 8) Dichlorotetrafluoroethane  | 2.854 | 85  | 102861 | 0.552 | ppbv   | 97     |
| 9) Propene                    | 2.690 | 41  | 32642  | 0.498 | ppbv   | 96     |
| 10) Heptane                   | 7.578 | 43  | 63040  | 0.429 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 3.558 | 101 | 92855  | 0.511 | ppbv   | 89     |
| 12) 1,1,2-Trichlorotrifluo... | 4.063 | 101 | 67243  | 0.509 | ppbv   | 96     |
| 13) Ethanol                   | 3.269 | 45  | 2080m  | 0.510 | ppbv   |        |
| 14) Bromoethene               | 3.362 | 108 | 28054  | 0.528 | ppbv # | 88     |
| 15) Acetone                   | 3.481 | 43  | 69299  | 0.488 | ppbv # | 85     |
| 16) 1,3-Butadiene             | 2.983 | 39  | 33737  | 0.474 | ppbv   | 88     |
| 17) tert-Butyl alcohol        | 3.890 | 59  | 61100  | 0.490 | ppbv # | 93     |
| 18) 1,1-Dichloroethene        | 3.877 | 96  | 30772  | 0.531 | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.597 | 45  | 32369m | 0.471 | ppbv   |        |
| 20) Methylene Chloride        | 3.928 | 84  | 29673  | 0.568 | ppbv   | 97     |
| 21) Allyl Chloride            | 3.993 | 41  | 39722  | 0.453 | ppbv   | 86     |
| 22) trans-1,2-Dichloroethene  | 4.439 | 96  | 27393  | 0.474 | ppbv   | 96     |
| 23) Vinyl Acetate             | 4.629 | 43  | 28383m | 0.425 | ppbv   |        |
| 24) 1,1-Dichloroethane        | 4.562 | 63  | 61980  | 0.482 | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.211 | 43  | 140929 | 0.479 | ppbv # | 98     |
| 26) Hexane                    | 5.211 | 57  | 50843  | 0.450 | ppbv   | 81     |
| 27) Carbon Disulfide          | 4.121 | 76  | 52791  | 0.416 | ppbv # | 86     |
| 28) Methyl tert-Butyl Ether   | 4.594 | 73  | 34128  | 0.469 | ppbv   | 96     |
| 29) Chloroform                | 5.266 | 83  | 98787  | 0.530 | ppbv   | 93     |
| 30) Cyclohexane               | 6.600 | 84  | 51970m | 0.573 | ppbv   |        |
| 31) cis-1,2-Dichloroethene    | 5.076 | 61  | 50385  | 0.464 | ppbv   | 94     |
| 32) 1,1,1-Trichloroethane     | 5.999 | 97  | 84699  | 0.496 | ppbv   | 96     |
| 34) 2-Butanone                | 4.796 | 43  | 78940  | 0.490 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 6.488 | 117 | 89311m | 0.523 | ppbv   |        |
| 36) Benzene                   | 6.362 | 78  | 107078 | 0.447 | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 5.803 | 62  | 64024  | 0.474 | ppbv   | 97     |
| 38) Trichloroethene           | 7.291 | 130 | 42598  | 0.461 | ppbv # | 90     |
| 39) 1,2-Dichloropropane       | 7.070 | 63  | 44946  | 0.475 | ppbv   | 93     |
| 40) 1,4-Dioxane               | 7.330 | 88  | 11696m | 0.349 | ppbv   |        |
| 41) Tetrahydrofuran           | 5.574 | 42  | 37743m | 0.411 | ppbv   |        |
| 42) Bromodichloromethane      | 7.246 | 83  | 86164  | 0.459 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 7.475 | 69  | 31683m | 0.377 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 7.327 | 57  | 175510 | 0.433 | ppbv   | 93     |
| 45) t-1,3-Dichloropropene     | 8.709 | 75  | 26475m | 0.352 | ppbv   |        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041677.D  
 Acq On : 7 Nov 2024 12:13  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Nov 08 00:11:14 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.143  | 75   | 41408m   | 0.379 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 8.902  | 97   | 52244m   | 0.512 | ppbv   |          |
| 48) Dibromochloromethane      | 9.709  | 129  | 64053    | 0.411 | ppbv   | 99       |
| 49) Bromoform                 | 12.401 | 173  | 51263m   | 0.386 | ppbv   |          |
| 50) 4-Methyl-2-Pentanone      | 8.198  | 43   | 98725m   | 0.399 | ppbv   |          |
| 51) 2-Hexanone                | 9.577  | 43   | 66460m   | 0.370 | ppbv   |          |
| 52) Tetrachloroethene         | 10.610 | 164  | 40017m   | 0.489 | ppbv   |          |
| 53) Toluene                   | 9.221  | 91   | 90468    | 0.359 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.008 | 107  | 57696m   | 0.484 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 11.510 | 131  | 61817    | 0.512 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.520 | 112  | 113601m  | 0.525 | ppbv   |          |
| 58) Ethyl Benzene             | 12.089 | 91   | 125893m  | 0.392 | ppbv   |          |
| 59) m/p-Xylene                | 12.372 | 91   | 241360m  | 0.840 | ppbv   |          |
| 60) o-Xylene                  | 13.060 | 91   | 111856   | 0.408 | ppbv   | 99       |
| 61) Styrene                   | 12.899 | 104  | 36189m   | 0.320 | ppbv   |          |
| 62) Isopropylbenzene          | 14.031 | 105  | 187478   | 0.443 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.050 | 83   | 100534   | 0.503 | ppbv   | 96       |
| 64) n-propylbenzene           | 14.921 | 120  | 47206m   | 0.426 | ppbv   |          |
| 65) tert-Butylbenzene         | 16.092 | 119  | 162846   | 0.428 | ppbv   | 95       |
| 66) Benzyl Chloride           | 16.330 | 91   | 12069m   | 0.440 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.638 | 105  | 230007   | 0.429 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 16.995 | 119  | 169014   | 0.389 | ppbv   | 95       |
| 70) n-Butylbenzene            | 17.892 | 91   | 178790m  | 0.402 | ppbv   |          |
| 71) 2-Chlorotoluene           | 14.802 | 91   | 122982   | 0.401 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.191 | 105  | 125281m  | 0.393 | ppbv   |          |
| 73) 1,3,5-Trimethylbenzene    | 15.355 | 105  | 115096m  | 0.412 | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene    | 16.111 | 105  | 142178   | 0.437 | ppbv # | 87       |
| 75) 1,3-Dichlorobenzene       | 16.333 | 146  | 93240m   | 0.464 | ppbv   |          |
| 76) 1,4-Dichlorobenzene       | 16.478 | 146  | 93341m   | 0.473 | ppbv   |          |
| 77) 1,2-Dichlorobenzene       | 17.146 | 146  | 93228    | 0.468 | ppbv   | 94       |
| 78) Hexachloro-1,3-Butadiene  | 22.638 | 225  | 89942m   | 0.570 | ppbv   |          |
| 79) Naphthalene               | 21.397 | 128  | 76368m   | 0.382 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 24.410 | 142  | 17526m   | 0.473 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.149 | 180  | 52746m   | 0.424 | ppbv   |          |

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

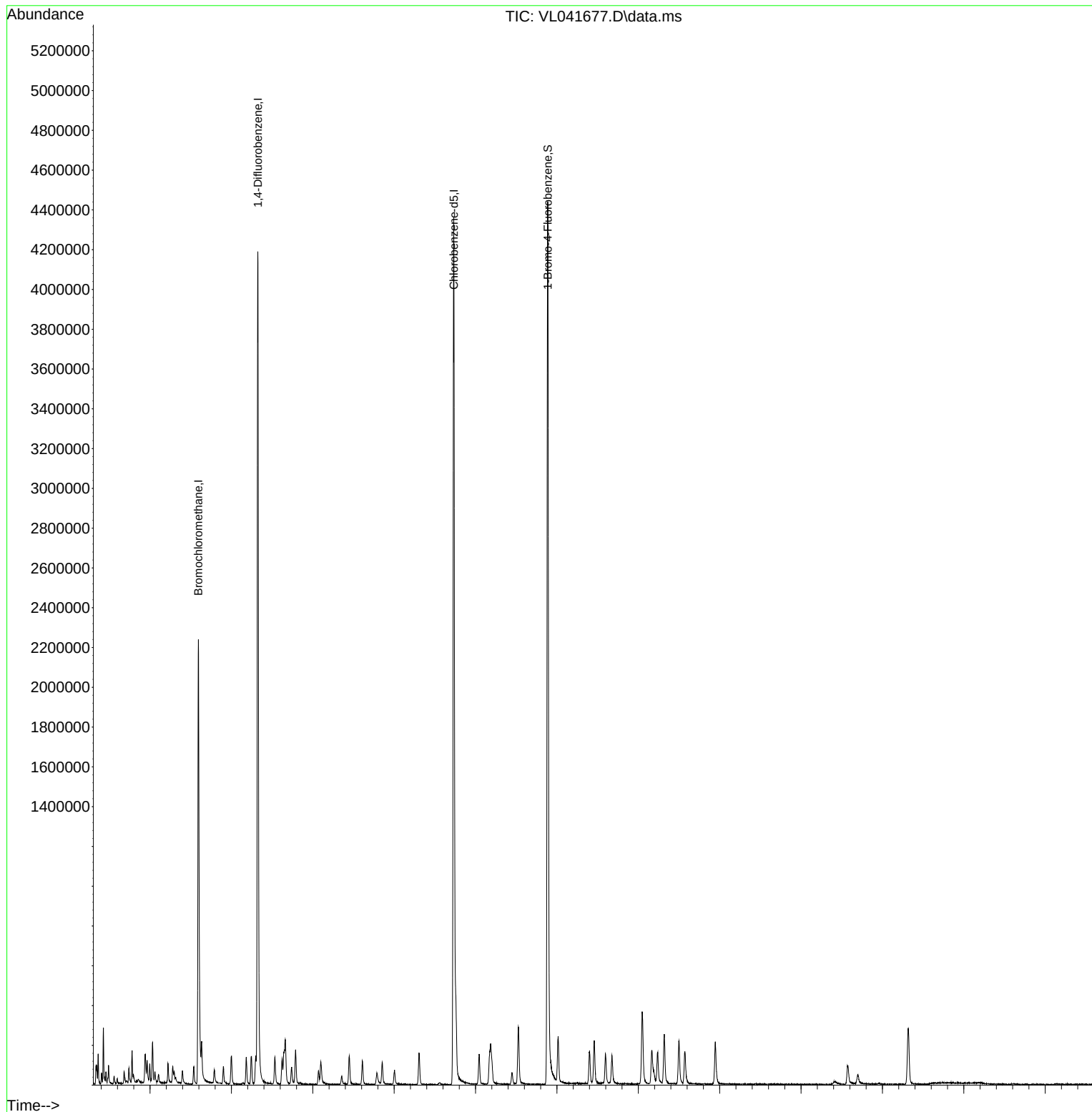
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Data File : VL041677.D  
Acq On : 7 Nov 2024 12:13  
Operator : SY/MD  
Sample : VSTDICC0.5  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

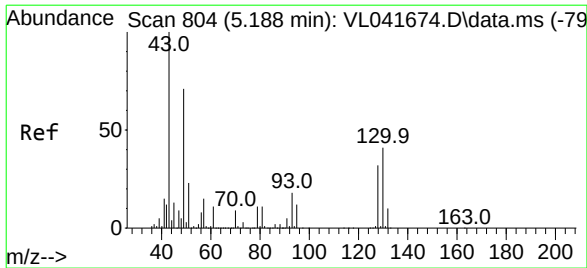
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MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Quant Time: Nov 08 00:11:14 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

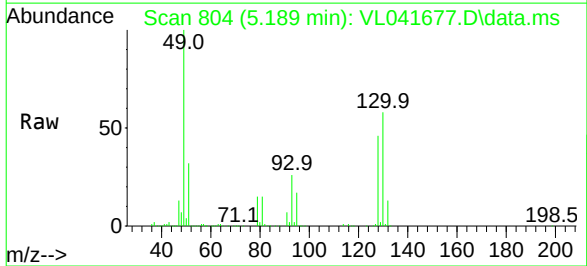
Reviewed By : Mahesh Dadoda 11/09/2024  
Supervised By : Semsettin Yesilyurt 11/09/2024





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.189 min Scan# 804  
Delta R.T. 0.001 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

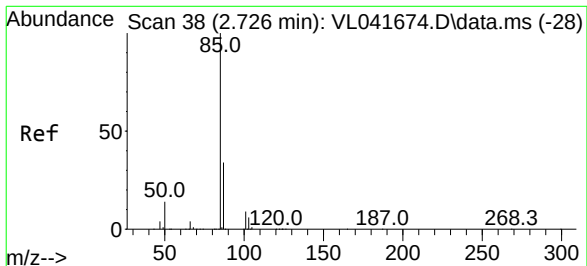
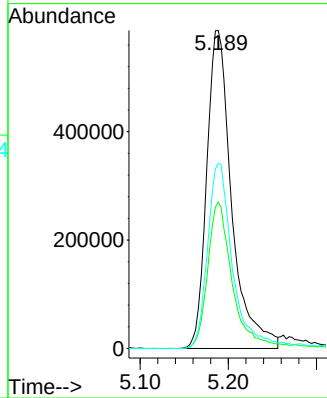
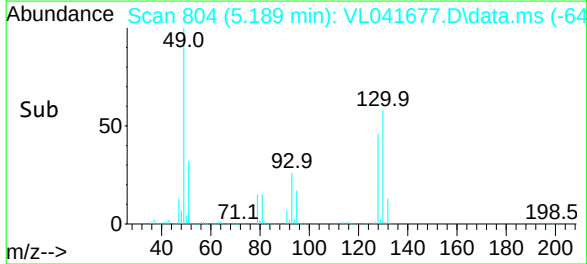
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



Tgt Ion: 49 Resp: 1153976  
Ion Ratio Lower Upper  
49 100  
128 47.2 23.8 71.2  
130 59.9 30.1 90.5

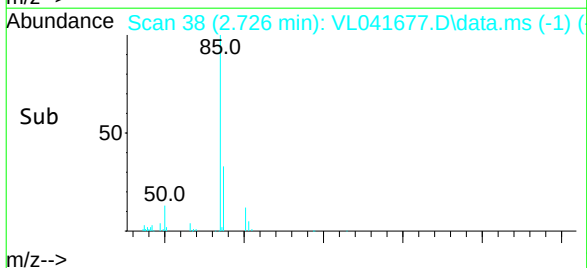
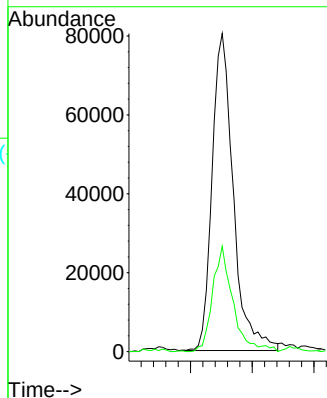
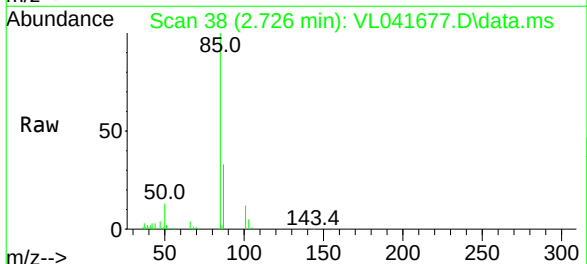
Manual Integrations  
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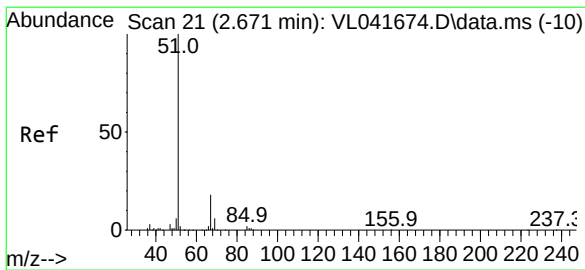
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#2  
Dichlorodifluoromethane  
Concen: 0.461 ppbv  
RT: 2.726 min Scan# 38  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

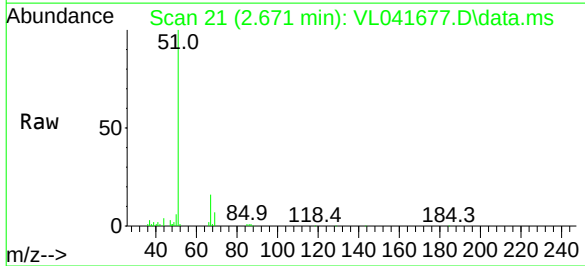
Tgt Ion: 85 Resp: 96069  
Ion Ratio Lower Upper  
85 100  
87 33.2 26.8 40.2





#3  
Chlorodifluoromethane  
Concen: 0.540 ppbv  
RT: 2.671 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

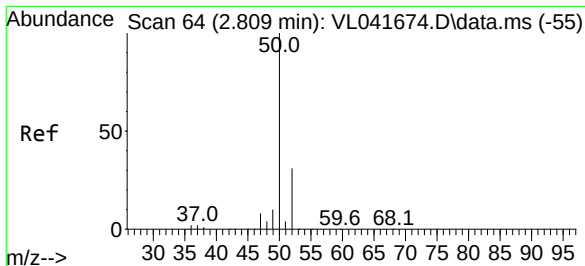
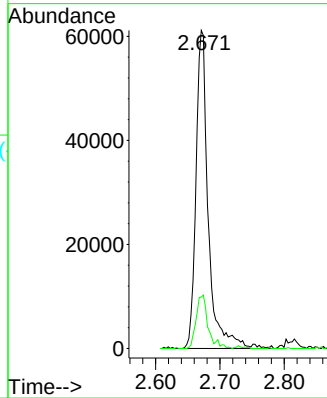
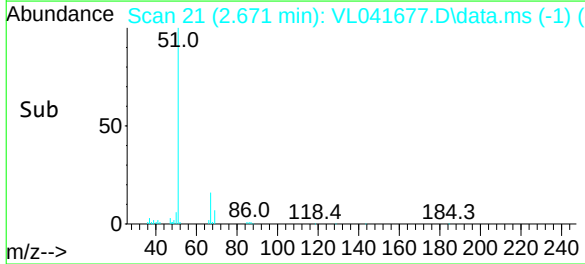
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5



Tgt Ion: 51 Resp: 81180  
Ion Ratio Lower Upper  
51 100  
67 16.8 13.9 20.9

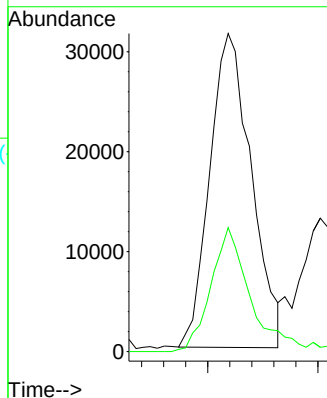
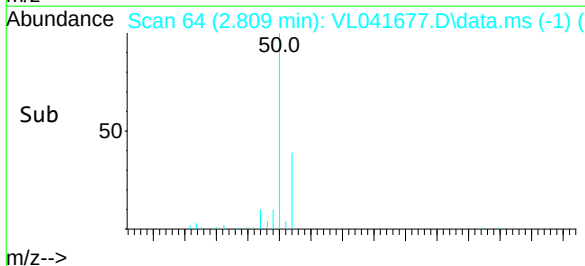
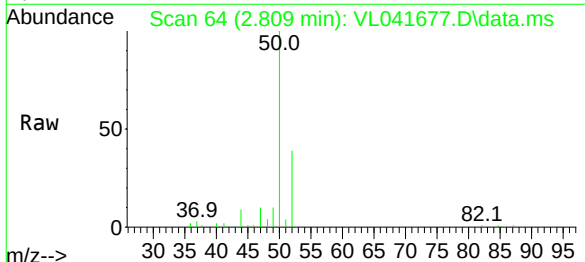
Manual Integrations  
APPROVED

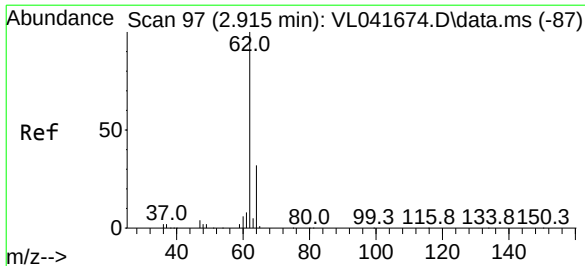
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#4  
Chloromethane  
Concen: 0.517 ppbv  
RT: 2.809 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

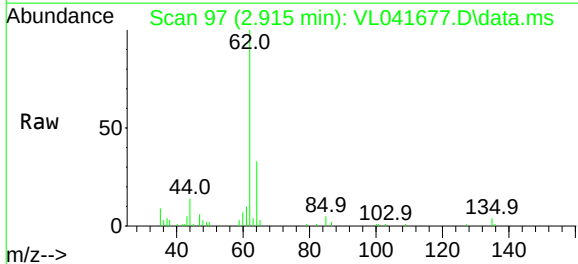
Tgt Ion: 50 Resp: 41203  
Ion Ratio Lower Upper  
50 100  
52 38.9 24.9 37.3





#5  
Vinyl Chloride  
Concen: 0.501 ppbv  
RT: 2.915 min Scan# 97  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

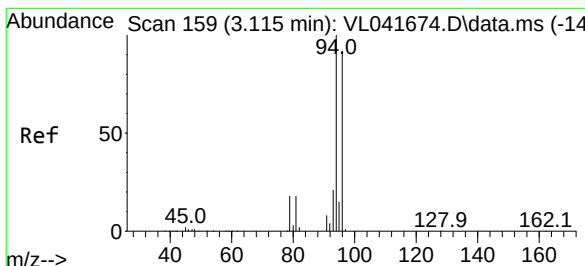
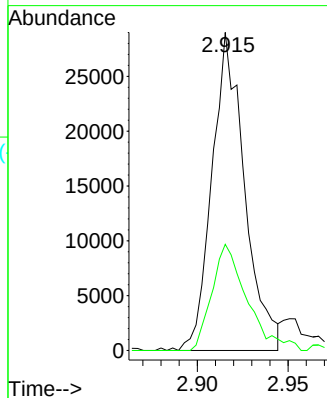
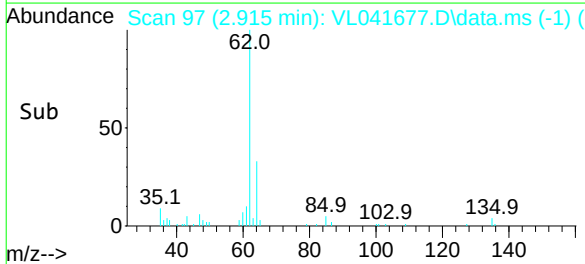
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



Tgt Ion: 62 Resp: 36174  
Ion Ratio Lower Upper  
62 100  
64 33.4 25.4 38.2

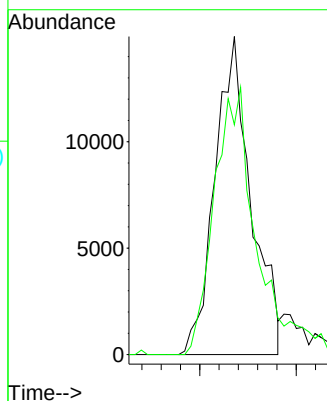
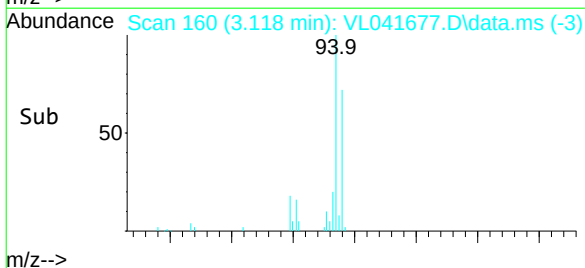
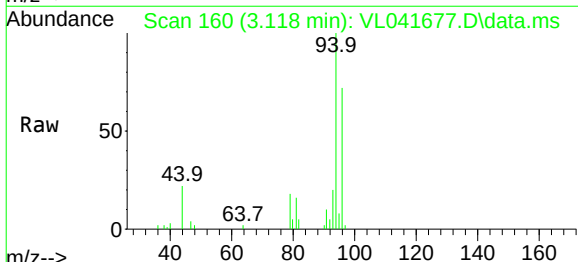
Manual Integrations  
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Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

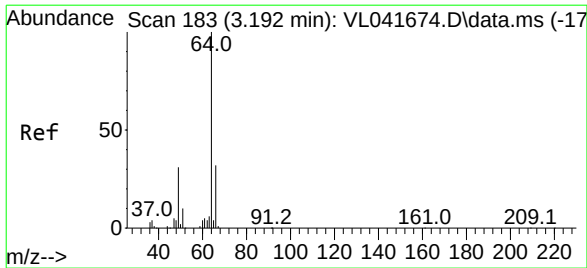


#6  
Bromomethane  
Concen: 0.511 ppbv  
RT: 3.118 min Scan# 160  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 94 Resp: 19426  
Ion Ratio Lower Upper  
94 100  
96 72.2 73.4 110.2#

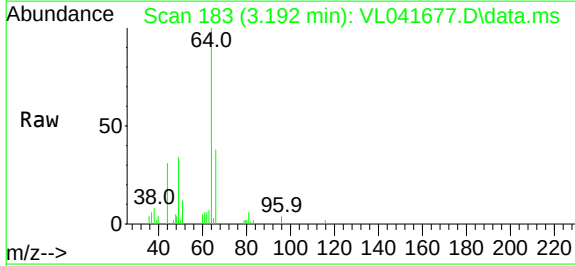






#7  
Chloroethane  
Concen: 0.500 ppbv  
RT: 3.192 min Scan# 18  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

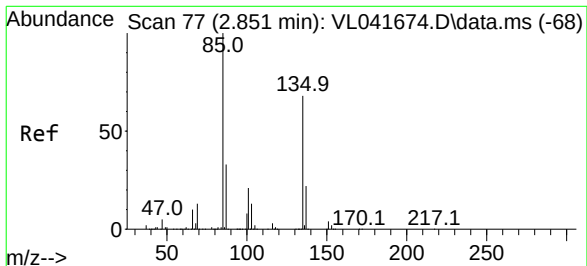
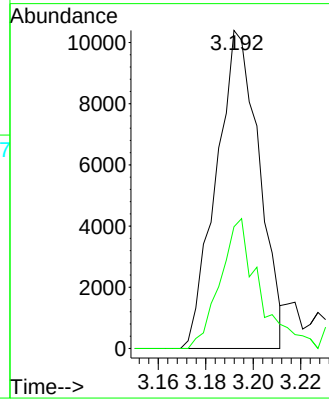
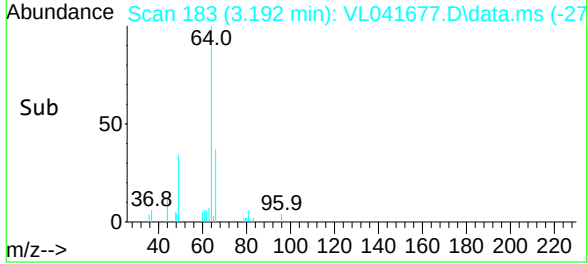
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



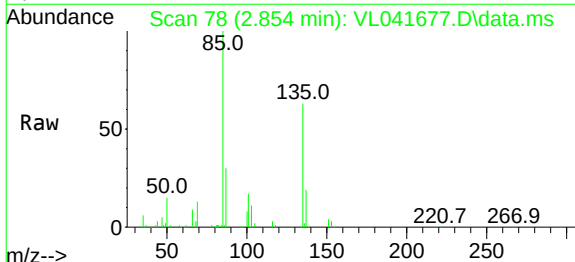
Tgt Ion: 64 Resp: 13079  
Ion Ratio Lower Upper  
64 100  
66 38.3 25.9 38.9

Manual Integrations  
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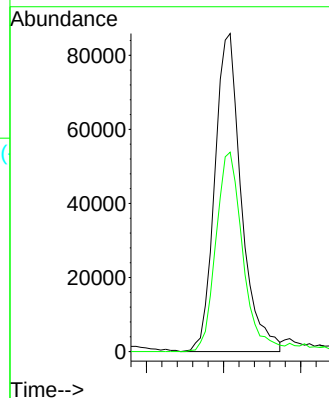
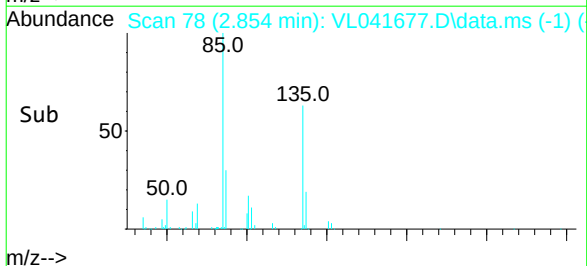
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

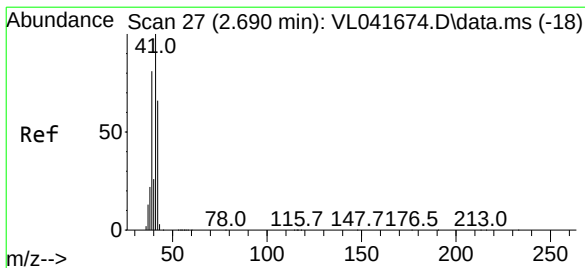


#8  
Dichlorotetrafluoroethane  
Concen: 0.552 ppbv  
RT: 2.854 min Scan# 78  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



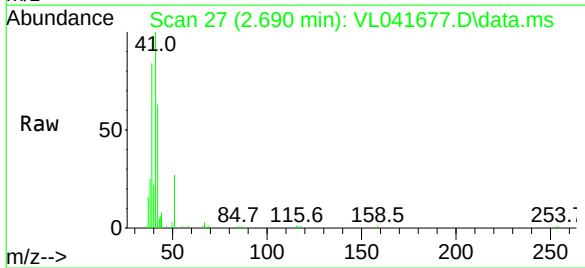
Tgt Ion: 85 Resp: 102861  
Ion Ratio Lower Upper  
85 100  
135 67.0 55.5 83.3





#9  
Propene  
Concen: 0.498 ppbv  
RT: 2.690 min Scan# 27  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

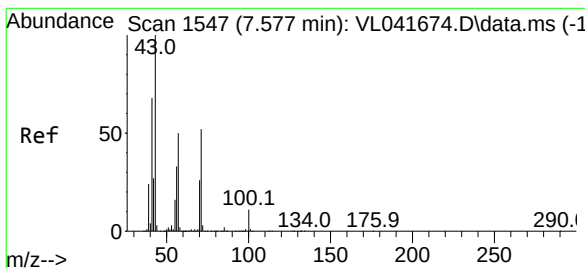
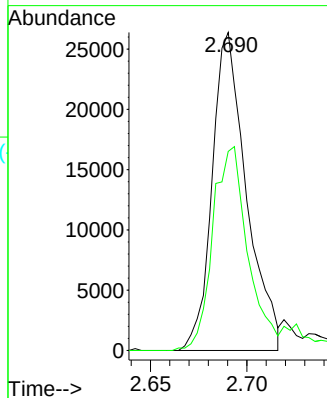
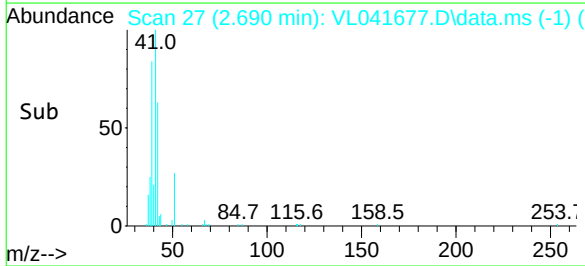
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5



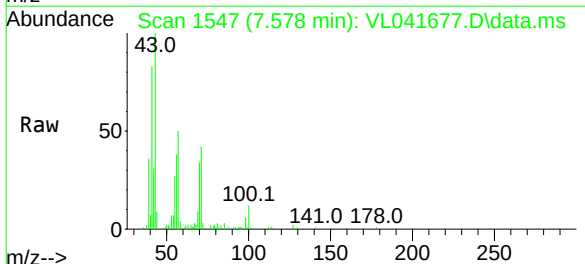
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Ion Ratio Lower Upper  
41 100  
42 72.3 55.0 82.4

Manual Integrations  
APPROVED

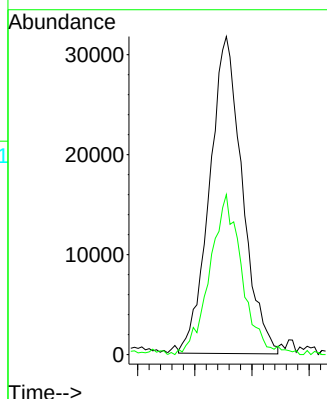
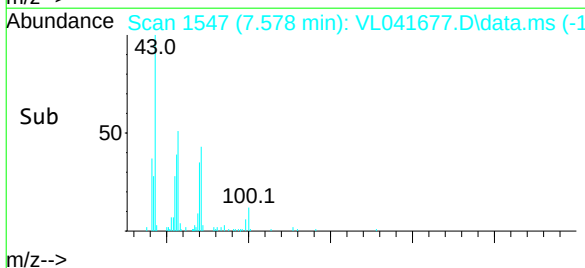
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

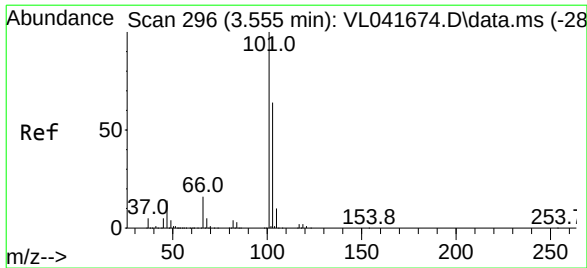


#10  
Heptane  
Concen: 0.429 ppbv  
RT: 7.578 min Scan# 1547  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



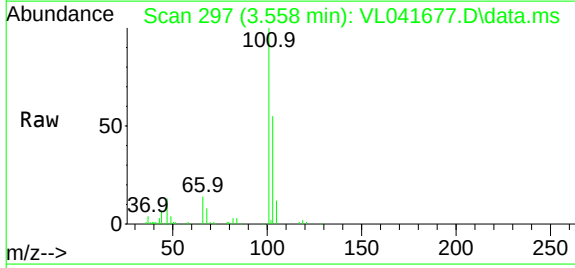
Tgt Ion: 43 Resp: 63040  
Ion Ratio Lower Upper  
43 100  
57 50.4 40.0 60.0





#11  
Trichlorofluoromethane  
Concen: 0.511 ppbv  
RT: 3.558 min Scan# 29  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

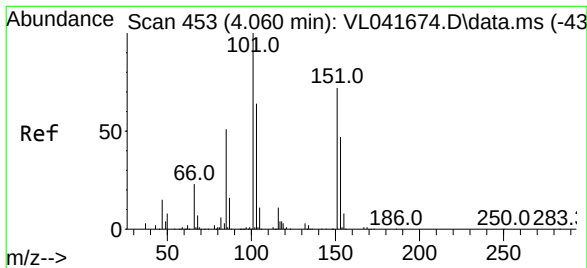
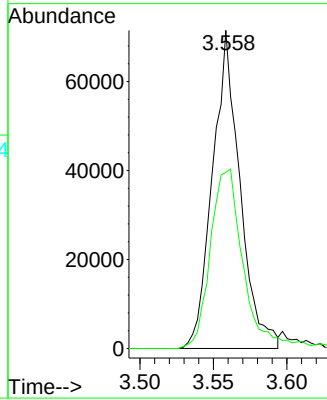
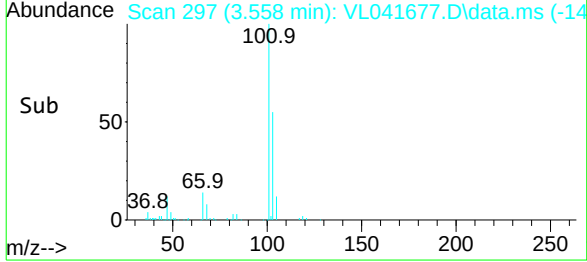
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



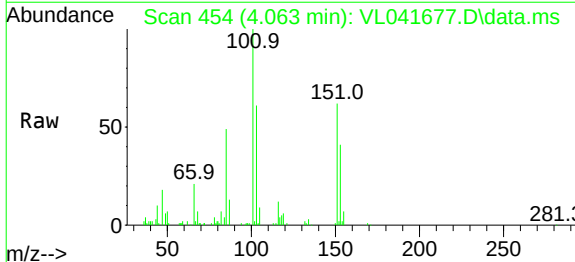
Tgt Ion:101 Resp: 92855  
Ion Ratio Lower Upper  
101 100  
103 55.4 51.0 76.6

Manual Integrations  
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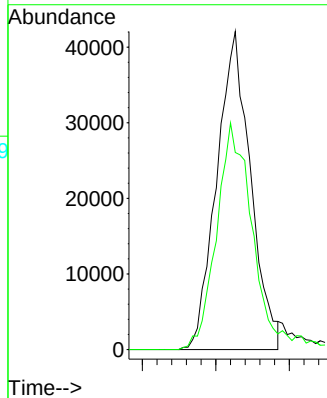
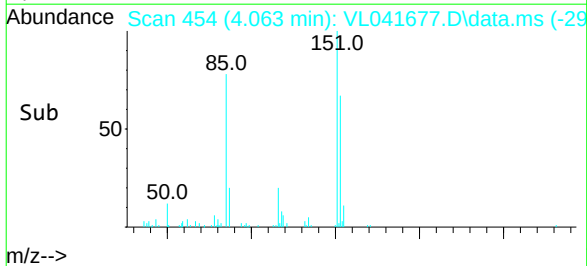
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

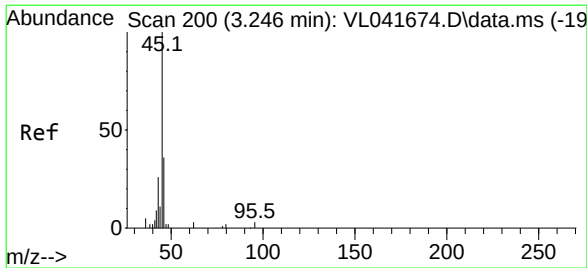


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.509 ppbv  
RT: 4.063 min Scan# 454  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



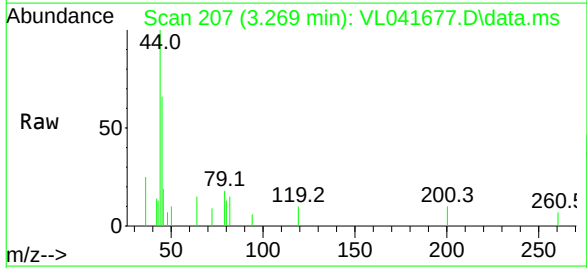
Tgt Ion:101 Resp: 67243  
Ion Ratio Lower Upper  
101 100  
151 77.5 59.1 88.7





#13  
Ethanol  
Concen: 0.510 ppbv m  
RT: 3.269 min Scan# 20  
Delta R.T. 0.023 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

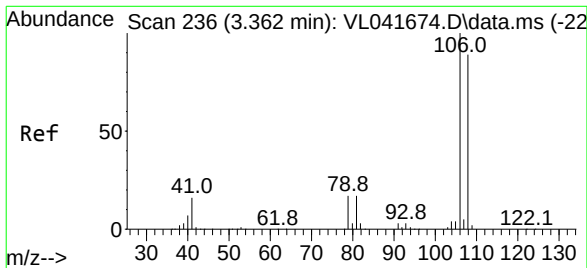
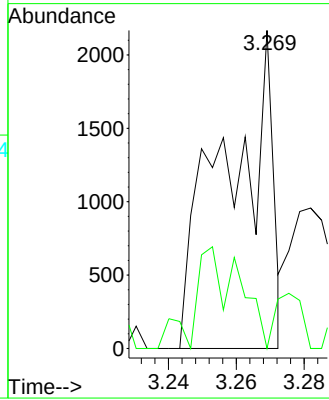
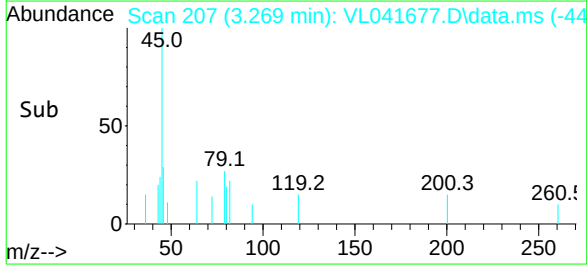
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



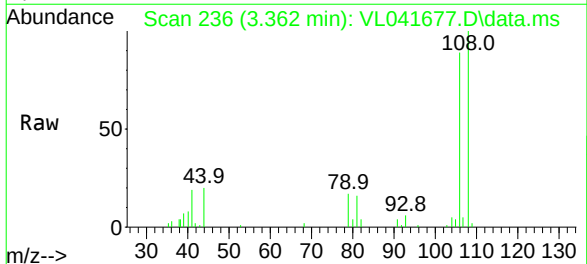
Tgt Ion: 45 Resp: 2080  
Ion Ratio Lower Upper  
45 100  
46 50.9 13.8 55.2

Manual Integrations  
APPROVED

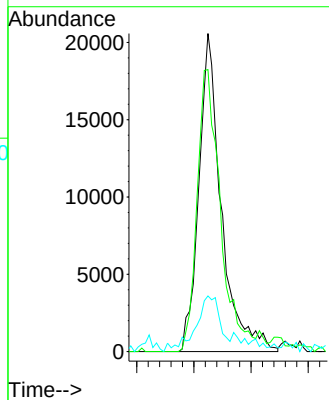
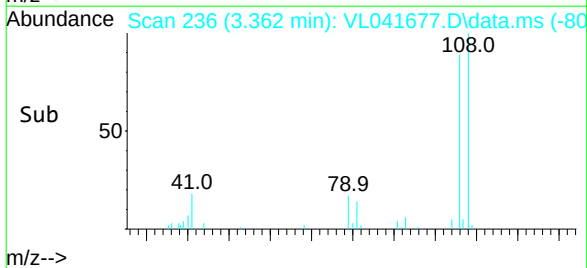
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

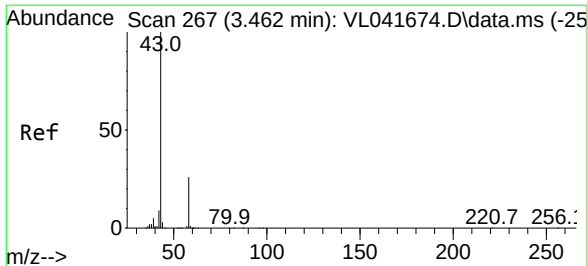


#14  
Bromoethene  
Concen: 0.528 ppbv  
RT: 3.362 min Scan# 236  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



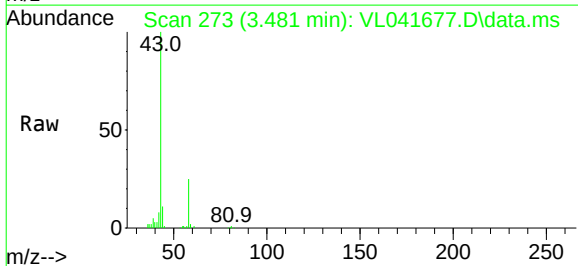
Tgt Ion:108 Resp: 28054  
Ion Ratio Lower Upper  
108 100  
106 98.7 88.6 133.0  
79 24.9 15.6 23.4#





#15  
Acetone  
Concen: 0.488 ppbv  
RT: 3.481 min Scan# 27  
Delta R.T. 0.019 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

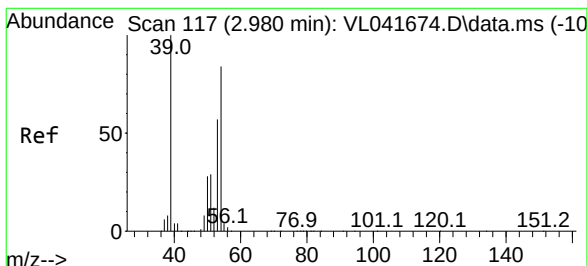
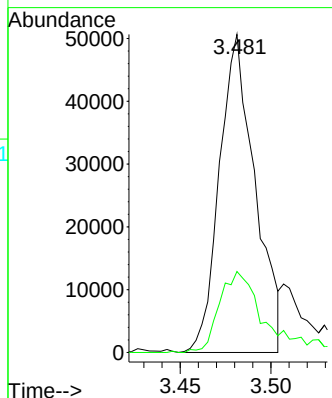
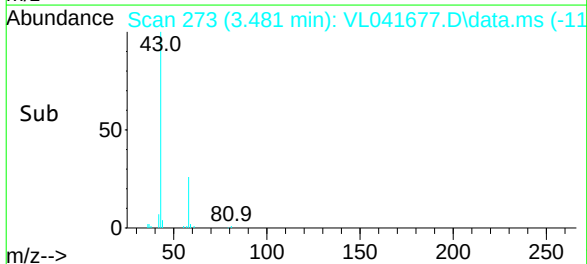
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



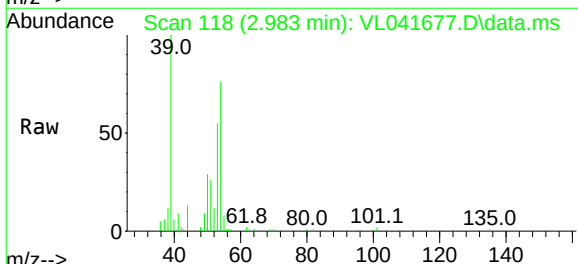
Tgt Ion: 43 Resp: 69299  
Ion Ratio Lower Upper  
43 100  
58 34.4 21.4 32.0

Manual Integrations  
APPROVED

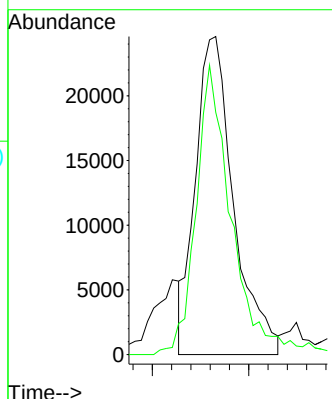
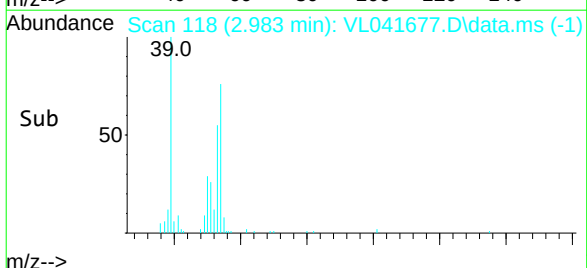
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

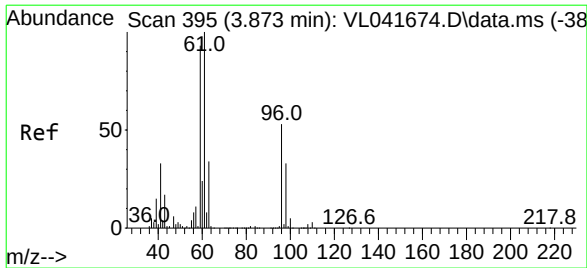


#16  
1,3-Butadiene  
Concen: 0.474 ppbv  
RT: 2.983 min Scan# 118  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



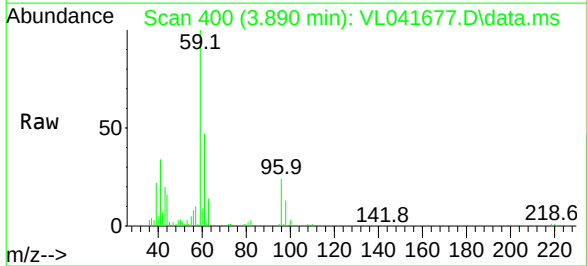
Tgt Ion: 39 Resp: 33737  
Ion Ratio Lower Upper  
39 100  
54 86.9 61.3 91.9





#17  
tert-Butyl alcohol  
Concen: 0.490 ppbv  
RT: 3.890 min Scan# 400  
Delta R.T. 0.016 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

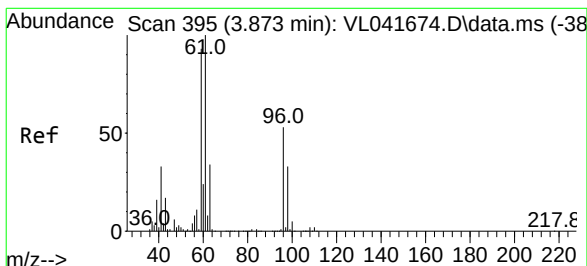
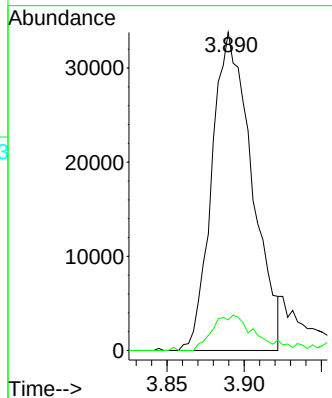
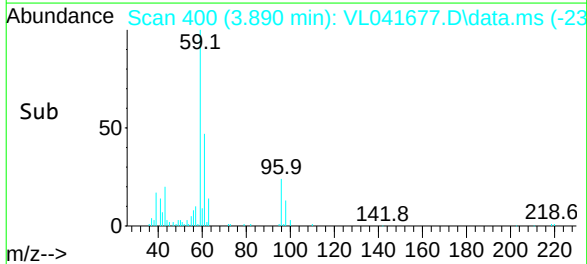
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



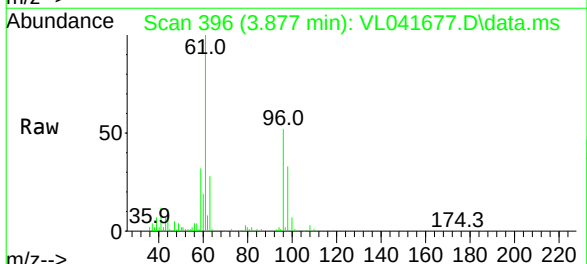
Tgt Ion: 59 Resp: 61100  
Ion Ratio Lower Upper  
59 100  
57 13.4 8.5 12.7

Manual Integrations  
APPROVED

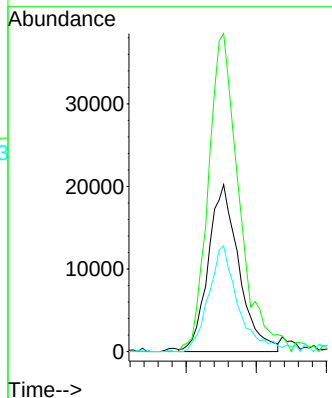
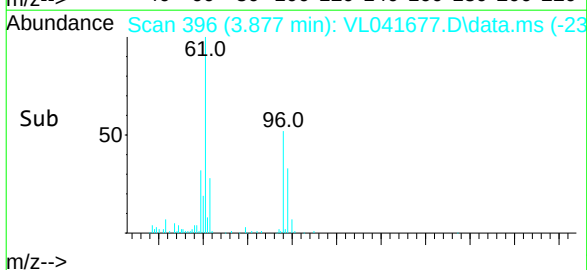
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

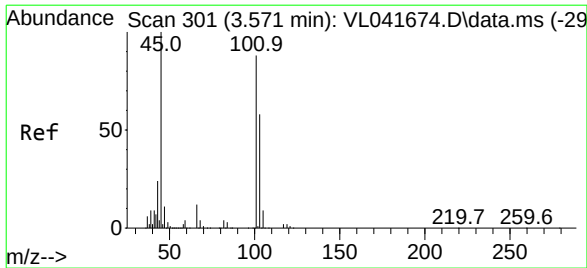


#18  
1,1-Dichloroethene  
Concen: 0.531 ppbv  
RT: 3.877 min Scan# 396  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



Tgt Ion: 96 Resp: 30772  
Ion Ratio Lower Upper  
96 100  
61 192.9 150.7 226.1  
98 64.1 49.4 74.2





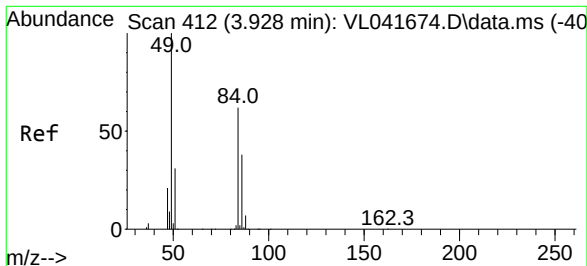
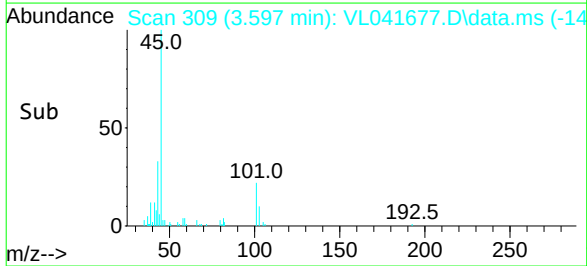
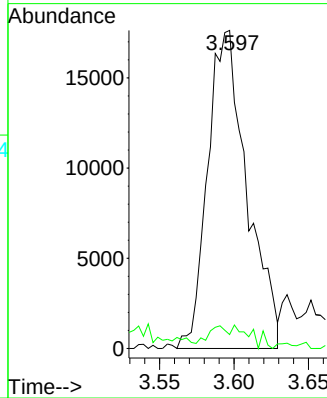
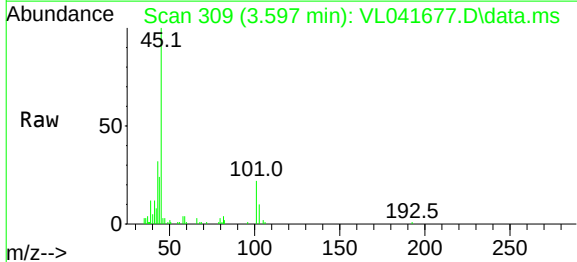
#19  
Isopropyl Alcohol  
Concen: 0.471 ppbv m  
RT: 3.597 min Scan# 301  
Delta R.T. 0.026 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 45 Resp: 32369  
Ion Ratio Lower Upper  
45 100  
58 9.0 2.5 3.7#

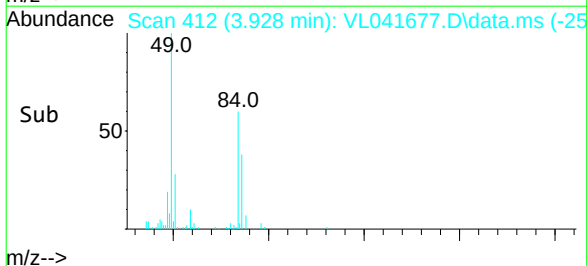
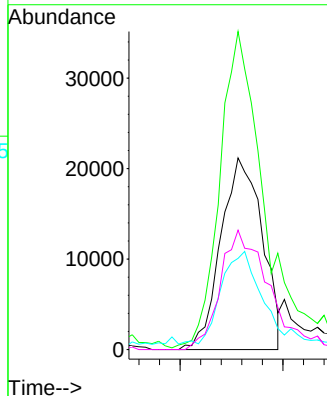
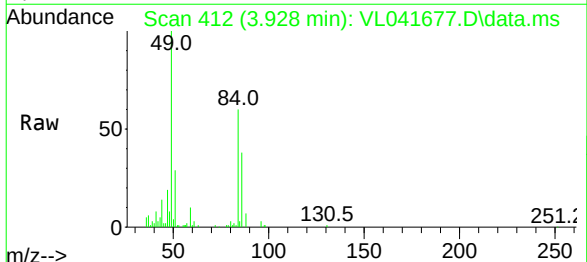
Manual Integrations  
APPROVED

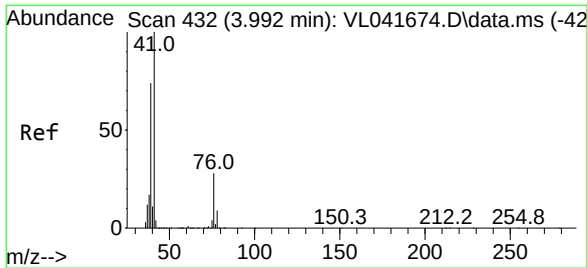
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#20  
Methylene Chloride  
Concen: 0.568 ppbv  
RT: 3.928 min Scan# 412  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 84 Resp: 29673  
Ion Ratio Lower Upper  
84 100  
49 163.5 129.7 194.5  
51 42.1 39.8 59.6  
86 62.3 49.1 73.7





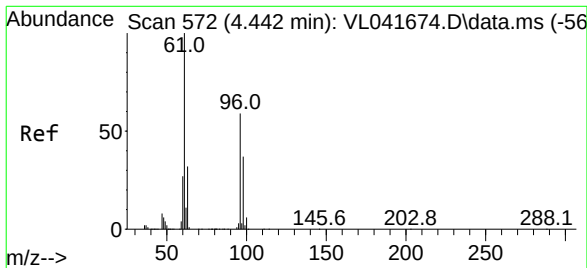
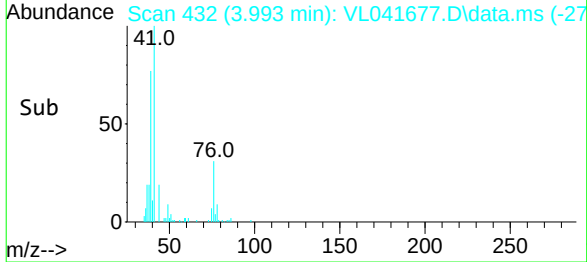
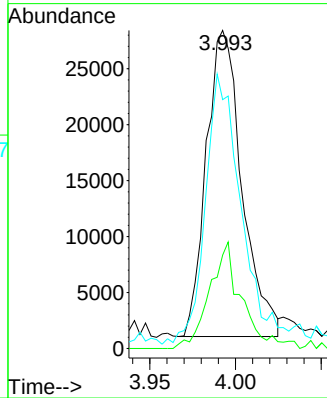
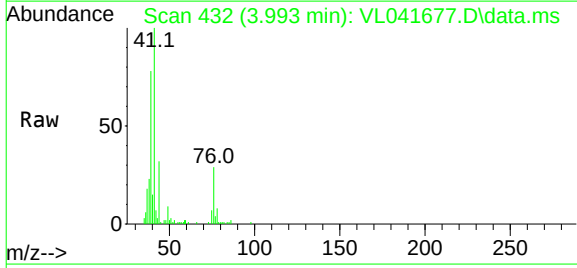
#21  
 Allyl Chloride  
 Concen: 0.453 ppbv  
 RT: 3.993 min Scan# 432  
 Delta R.T. 0.000 min  
 Lab File: VL041677.D  
 Acq: 7 Nov 2024 12:13

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 39722 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 32.6  | 23.5  | 35.3  |
| 39       | 93.7  | 63.0  | 94.4  |

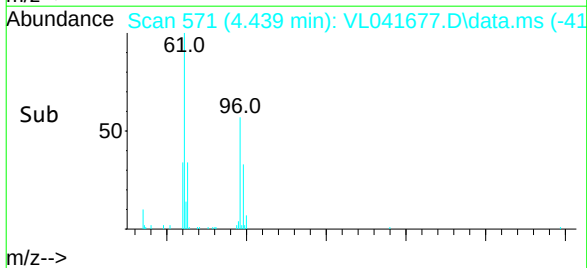
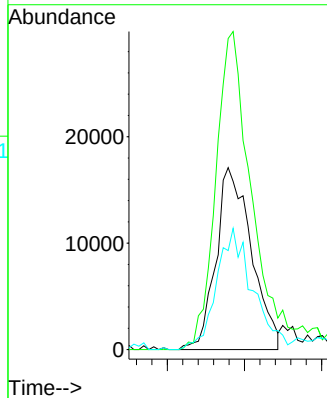
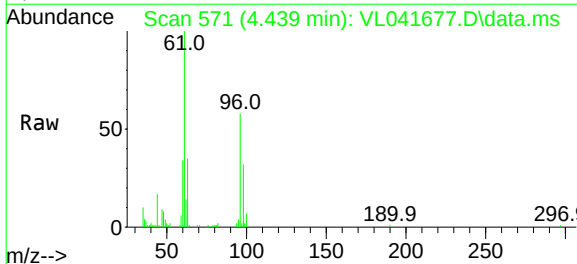
Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

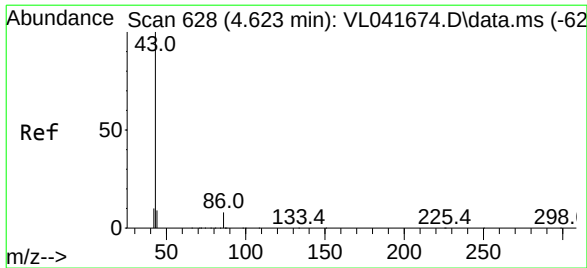


#22  
 trans-1,2-Dichloroethene  
 Concen: 0.474 ppbv  
 RT: 4.439 min Scan# 571  
 Delta R.T. -0.003 min  
 Lab File: VL041677.D  
 Acq: 7 Nov 2024 12:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 27393 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 171.0 | 134.5 | 201.7 |
| 98       | 54.4  | 49.6  | 74.4  |

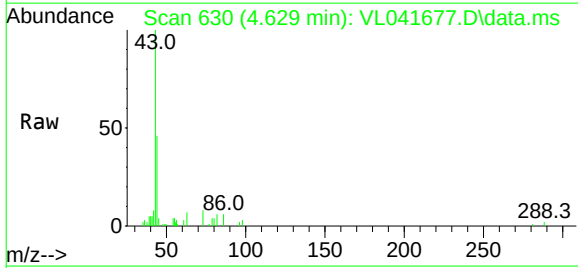






#23  
Vinyl Acetate  
Concen: 0.425 ppbv m  
RT: 4.629 min Scan# 63  
Delta R.T. 0.007 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

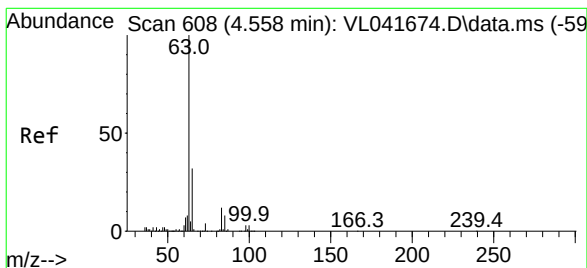
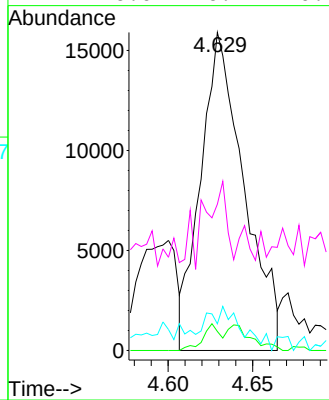
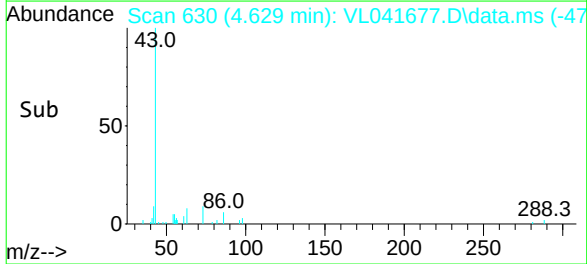
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 28383 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 6.0   | 5.3   | 7.9   |
| 42       | 8.4   | 8.5   | 12.7# |
| 44       | 46.0  | 6.7   | 10.1# |

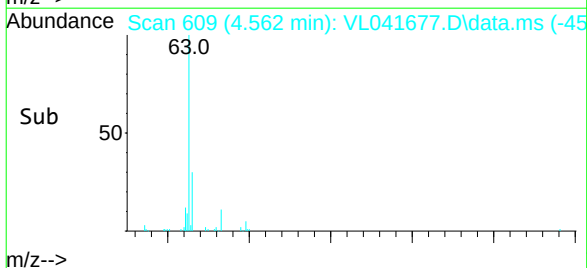
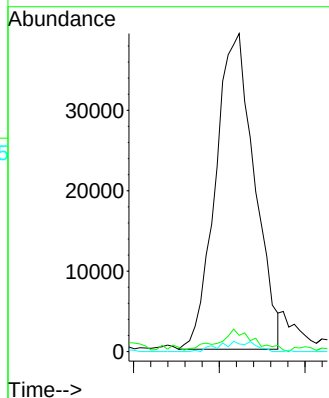
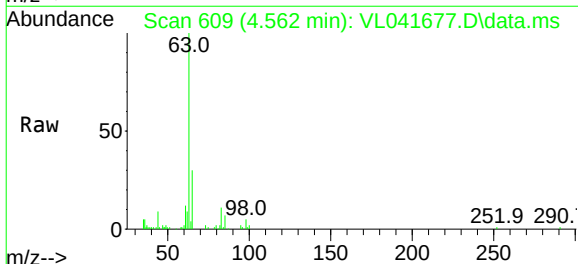
Manual Integrations  
APPROVED

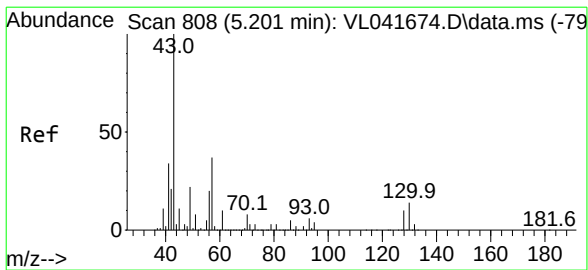
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#24  
1,1-Dichloroethane  
Concen: 0.482 ppbv  
RT: 4.562 min Scan# 609  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

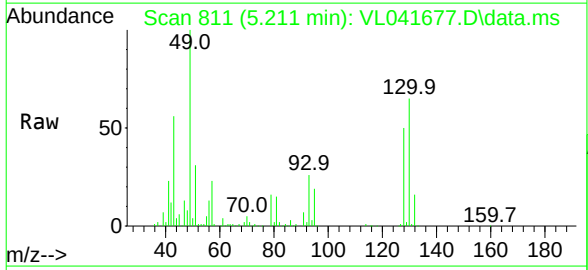
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 61980 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 3.8   | 1.8   | 5.4   |
| 100      | 2.4   | 1.4   | 4.2   |





#25  
Ethyl Acetate  
Concen: 0.479 ppbv  
RT: 5.211 min Scan# 811  
Delta R.T. 0.010 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

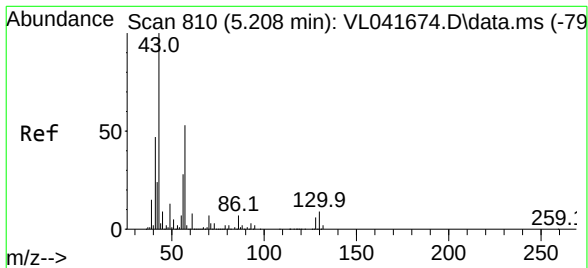
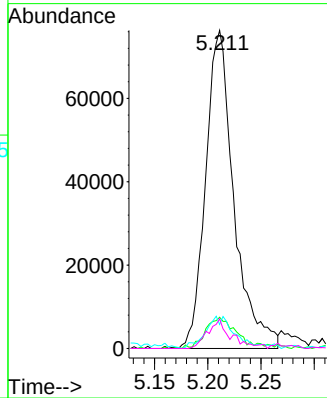
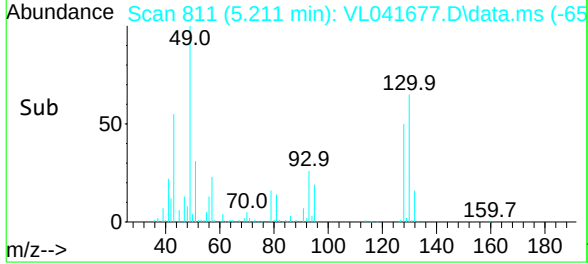
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



Tgt Ion: 43 Resp: 140929  
Ion Ratio Lower Upper  
43 100  
45 11.0 8.6 13.0  
61 11.3 8.4 12.6  
70 8.8 5.8 8.6#

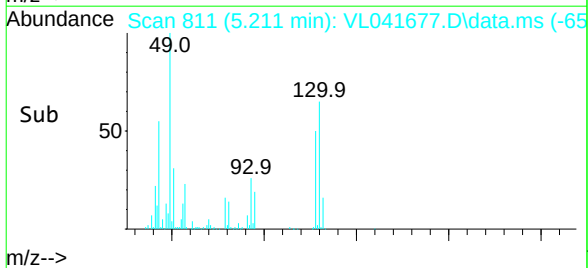
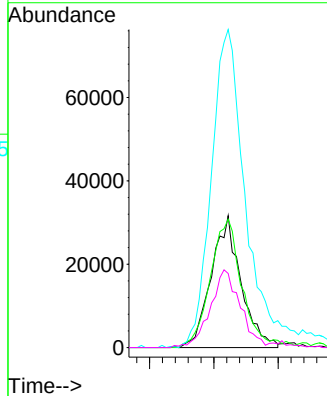
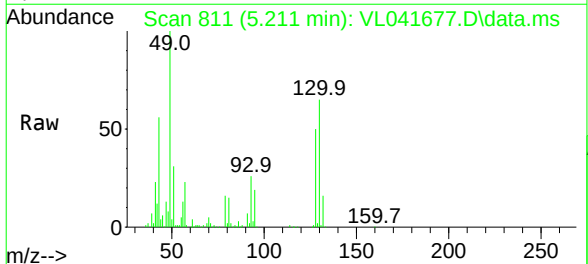
Manual Integrations  
APPROVED

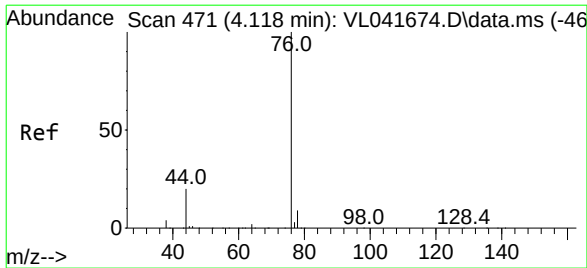
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#26  
Hexane  
Concen: 0.450 ppbv  
RT: 5.211 min Scan# 811  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 57 Resp: 50843  
Ion Ratio Lower Upper  
57 100  
41 107.1 76.1 114.1  
43 299.6 207.0 310.6  
56 62.3 43.7 65.5





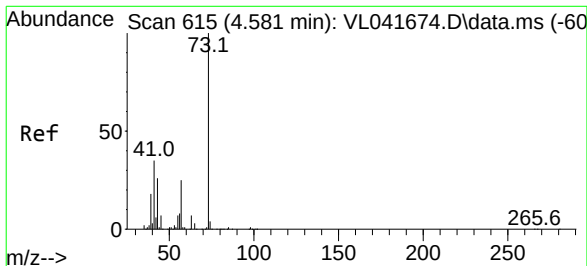
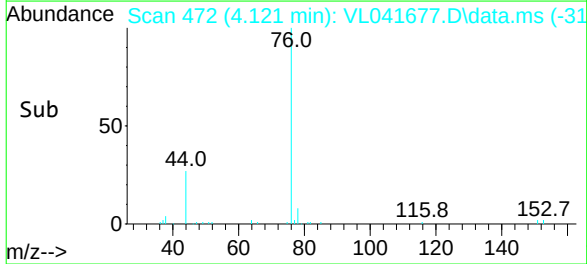
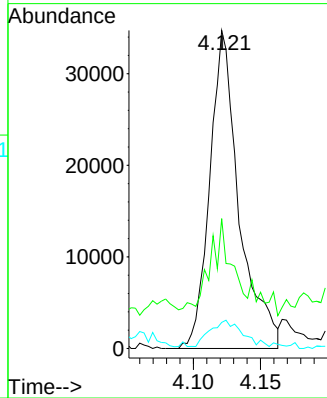
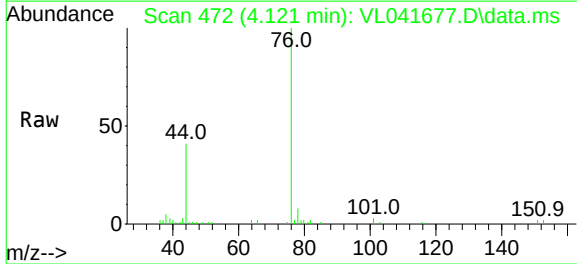
#27  
Carbon Disulfide  
Concen: 0.416 ppbv  
RT: 4.121 min Scan# 471  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 76 Resp: 52791  
Ion Ratio Lower Upper  
76 100  
44 27.8 15.8 23.8#  
78 11.9 7.5 11.3#

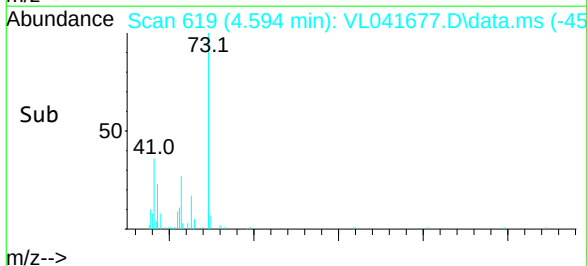
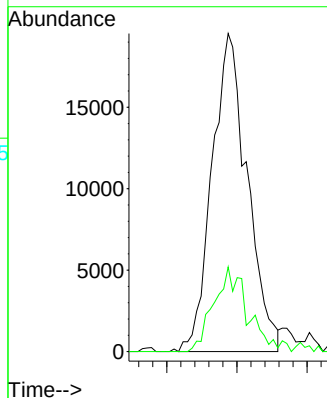
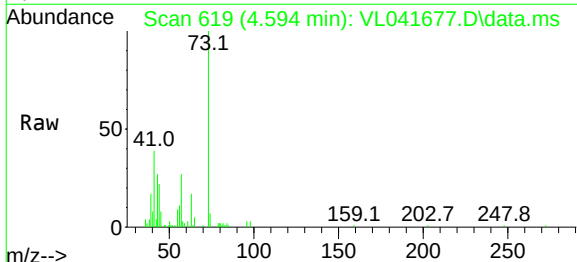
Manual Integrations  
APPROVED

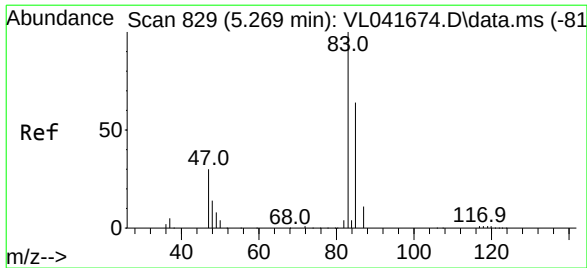
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#28  
Methyl tert-Butyl Ether  
Concen: 0.469 ppbv  
RT: 4.594 min Scan# 619  
Delta R.T. 0.013 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 73 Resp: 34128  
Ion Ratio Lower Upper  
73 100  
57 26.6 19.6 29.4





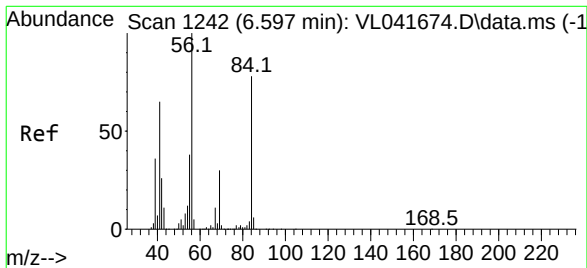
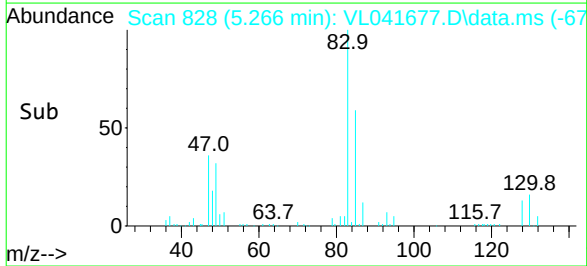
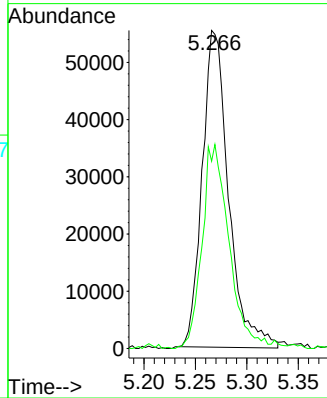
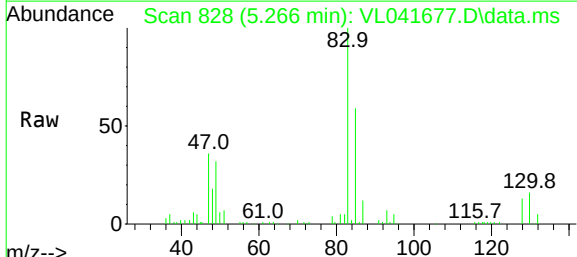
#29  
Chloroform  
Concen: 0.530 ppbv  
RT: 5.266 min Scan# 829  
Delta R.T. -0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 83 Resp: 98787  
Ion Ratio Lower Upper  
83 100  
85 58.5 51.1 76.7

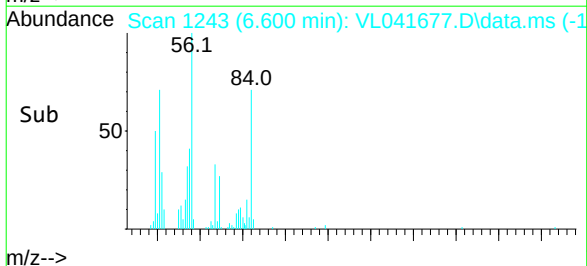
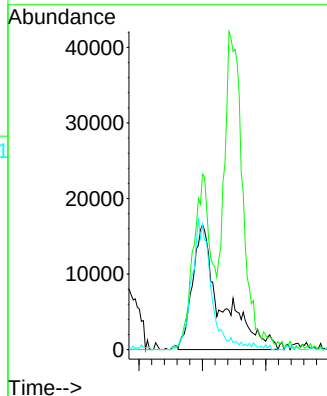
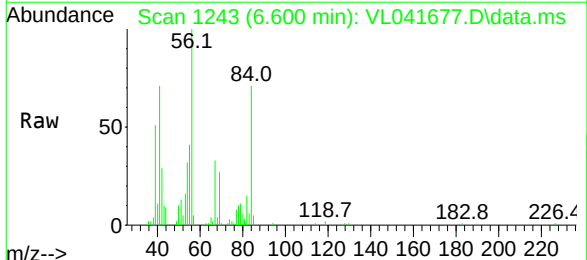
Manual Integrations  
APPROVED

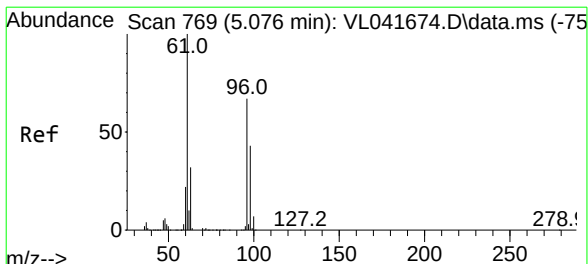
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#30  
Cyclohexane  
Concen: 0.573 ppbv m  
RT: 6.600 min Scan# 1243  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

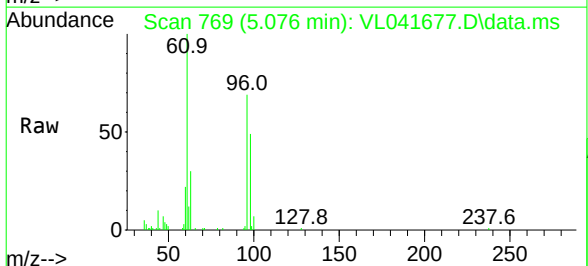
Tgt Ion: 84 Resp: 51970  
Ion Ratio Lower Upper  
84 100  
56 83.2 110.8 166.2#  
41 71.9 70.0 105.0





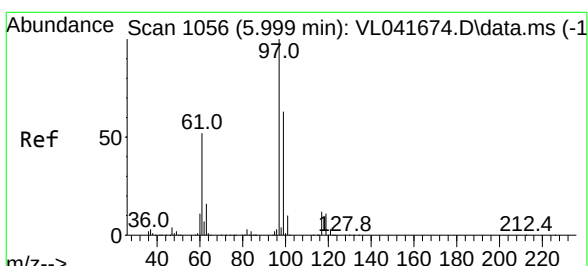
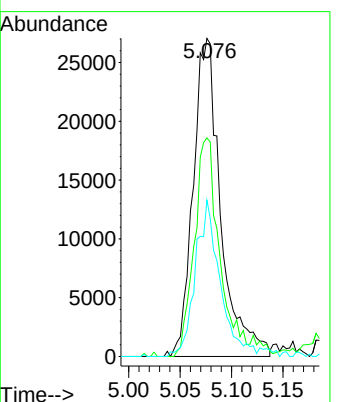
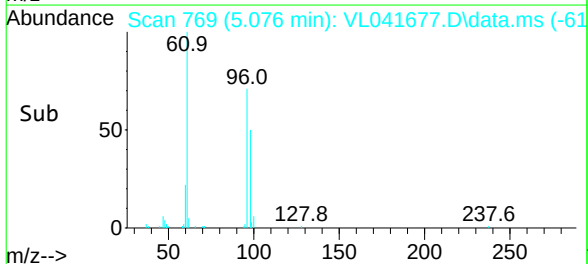
#31  
 cis-1,2-Dichloroethene  
 Concen: 0.464 ppbv  
 RT: 5.076 min Scan# 769  
 Delta R.T. 0.000 min  
 Lab File: VL041677.D  
 Acq: 7 Nov 2024 12:13

Instrument : MSVOA\_L  
 ClientSampleId : VSTDIC0.5

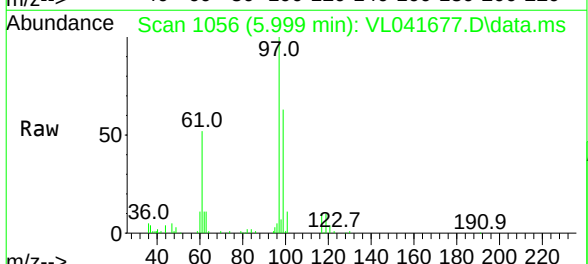


| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 68.7  | 53.4  | 80.2  |
| 98      | 50.1  | 34.0  | 51.0  |

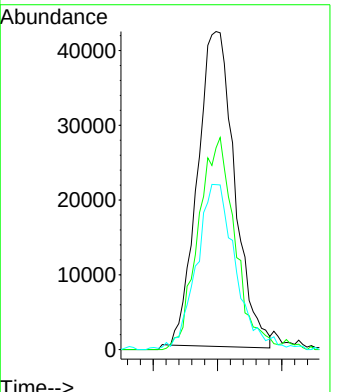
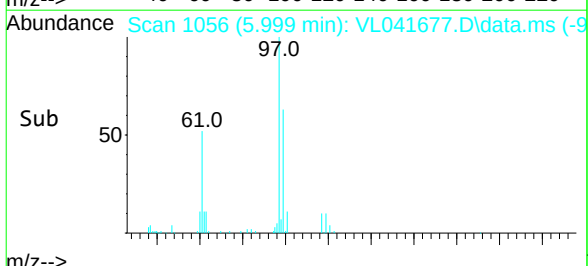
Manual Integrations  
**APPROVED**  
 Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

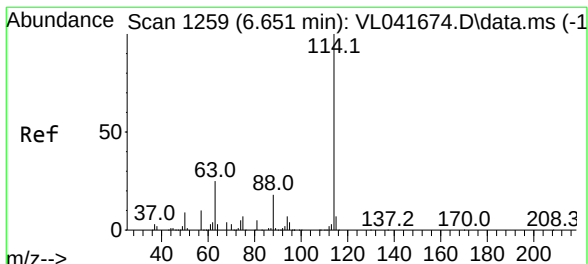


#32  
 1,1,1-Trichloroethane  
 Concen: 0.496 ppbv  
 RT: 5.999 min Scan# 1056  
 Delta R.T. 0.000 min  
 Lab File: VL041677.D  
 Acq: 7 Nov 2024 12:13



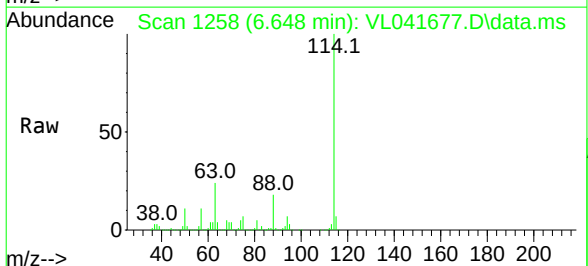
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 67.6  | 51.4  | 77.2  |
| 61      | 55.5  | 41.7  | 62.5  |





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.648 min Scan# 1259  
Delta R.T. -0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Instrument : MSVOA\_L  
ClientSampleId : VSTDIC0.5

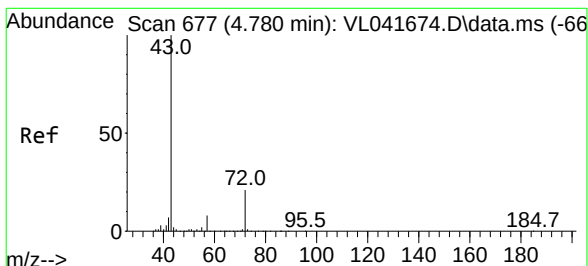
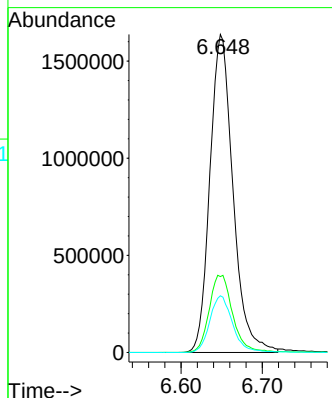
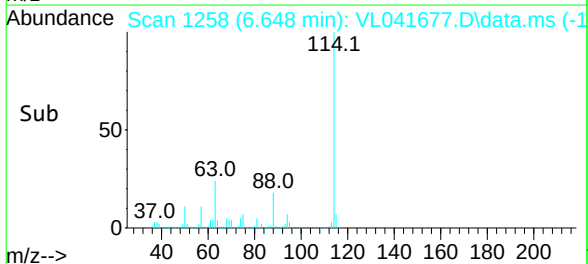


Tgt Ion: 114 Resp: 3232256

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 25.2  | 20.3  | 30.5  |
| 88  | 17.8  | 14.2  | 21.4  |

Manual Integrations  
APPROVED

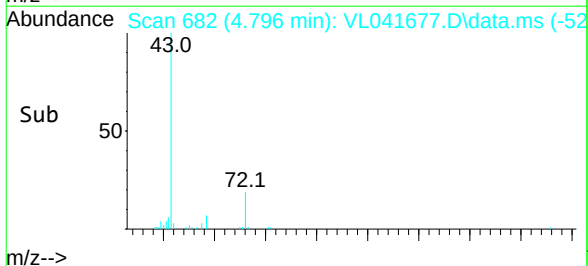
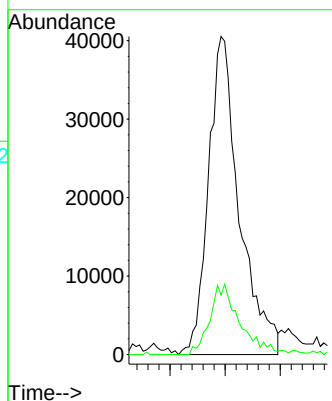
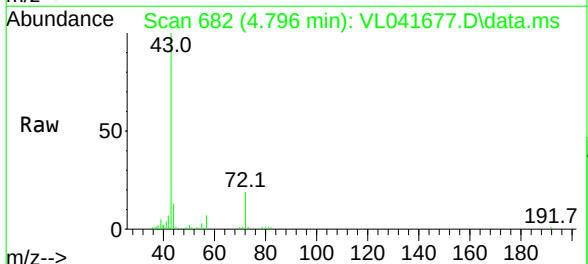
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

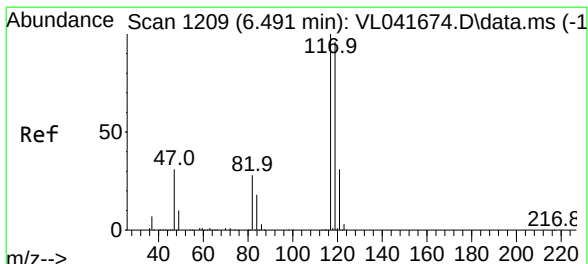


#34  
2-Butanone  
Concen: 0.490 ppbv  
RT: 4.796 min Scan# 682  
Delta R.T. 0.016 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 43 Resp: 78940

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 22.1  | 17.4  | 26.0  |





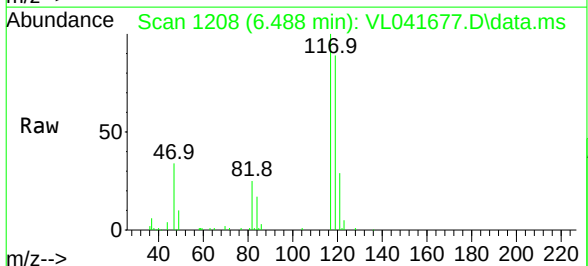
#35  
Carbon Tetrachloride  
Concen: 0.523 ppbv m  
RT: 6.488 min Scan# 1209  
Delta R.T. -0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

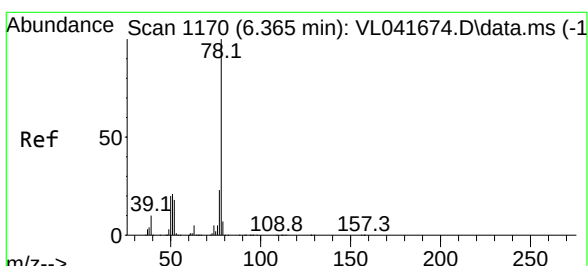
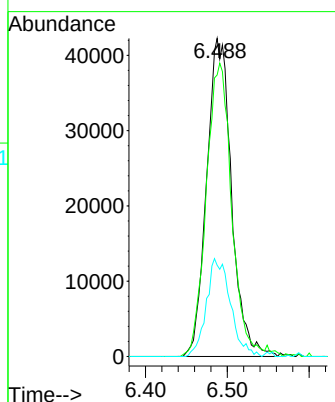
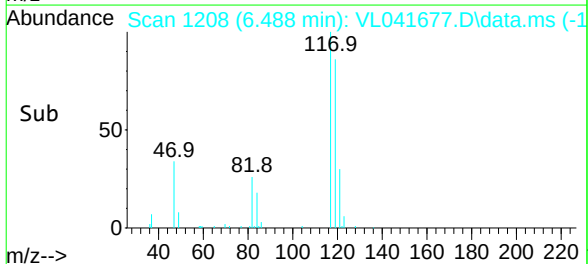
VSTDIC0.5



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 89311 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 88.5  | 77.2  | 115.8 |
| 121      | 28.7  | 25.0  | 37.4  |

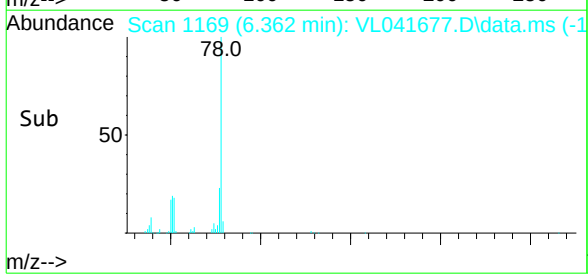
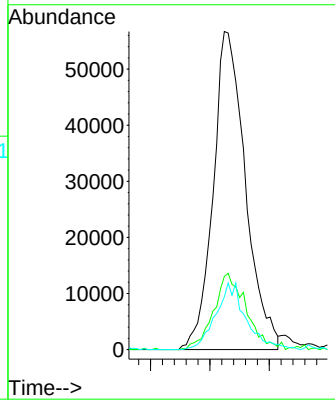
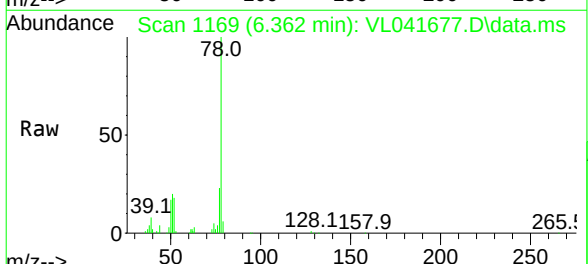
Manual Integrations  
APPROVED

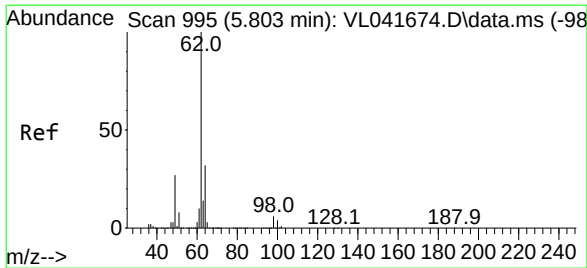
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#36  
Benzene  
Concen: 0.447 ppbv  
RT: 6.362 min Scan# 1169  
Delta R.T. -0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

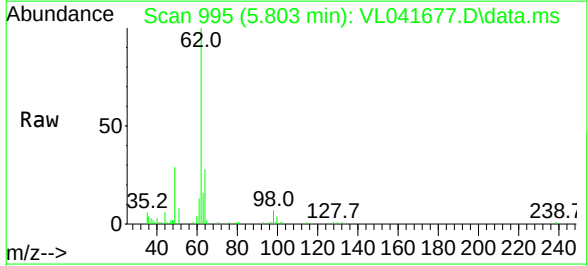
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 78    | Resp: | 107078 |
| Ion      | Ratio | Lower | Upper  |
| 78       | 100   |       |        |
| 77       | 23.1  | 18.5  | 27.7   |
| 50       | 16.7  | 15.6  | 23.4   |





#37  
1,2-Dichloroethane  
Concen: 0.474 ppbv  
RT: 5.803 min Scan# 995  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

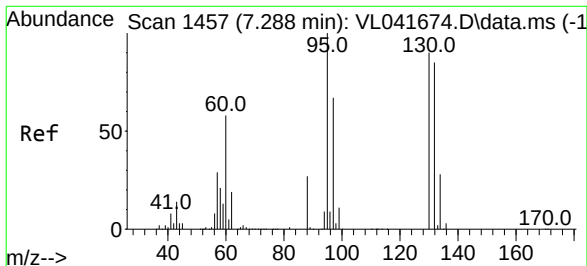
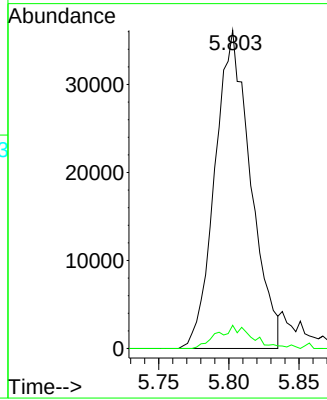
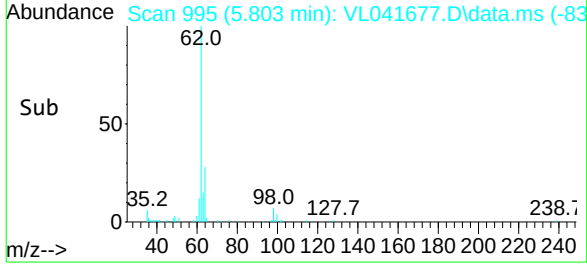
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



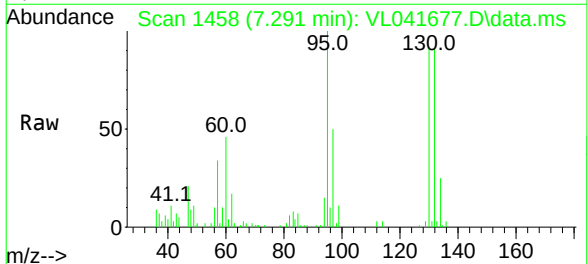
Tgt Ion: 62 Resp: 64024  
Ion Ratio Lower Upper  
62 100  
98 7.5 5.2 7.8

Manual Integrations  
APPROVED

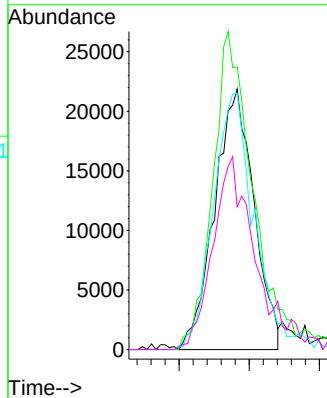
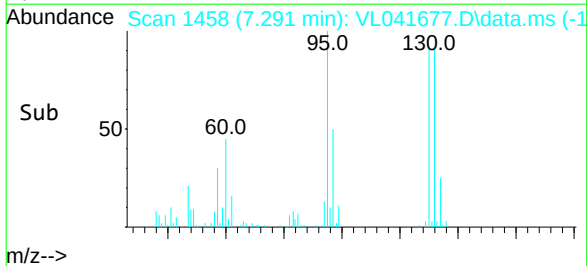
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



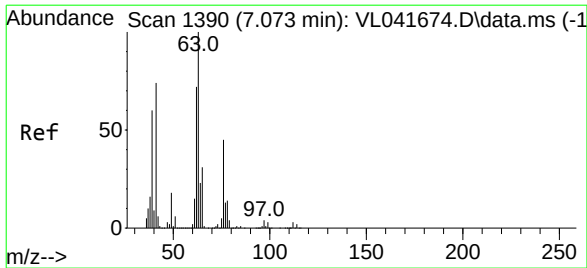
#38  
Trichloroethene  
Concen: 0.461 ppbv  
RT: 7.291 min Scan# 1458  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



Tgt Ion:130 Resp: 42598  
Ion Ratio Lower Upper  
130 100  
95 108.5 89.1 133.7  
132 100.1 75.7 113.5  
97 53.8 60.0 90.0#

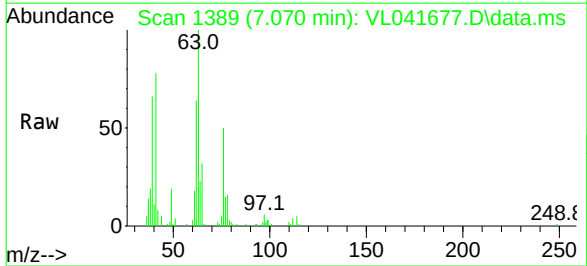






#39  
1,2-Dichloropropane  
Concen: 0.475 ppbv  
RT: 7.070 min Scan# 1390  
Delta R.T. -0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

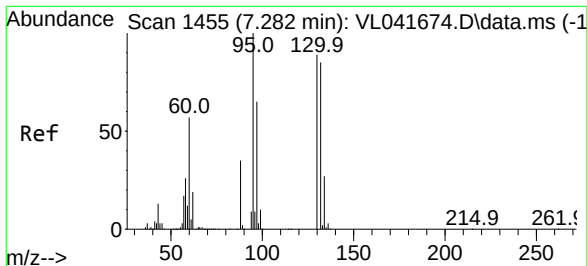
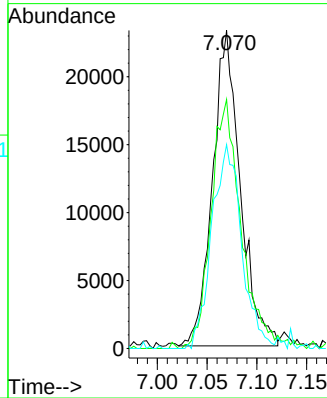
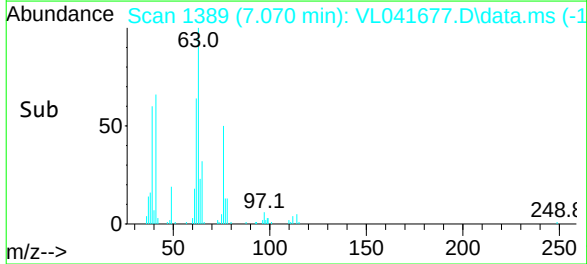
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



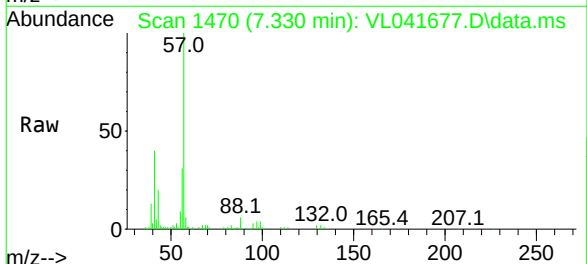
Tgt Ion: 63 Resp: 44946  
Ion Ratio Lower Upper  
63 100  
41 78.9 59.1 88.7  
62 64.6 57.7 86.5

Manual Integrations  
APPROVED

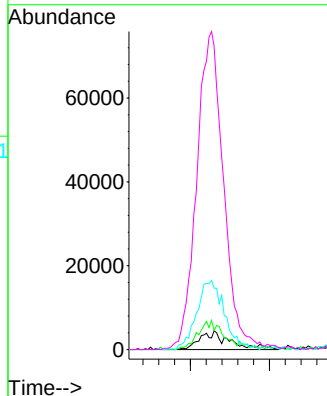
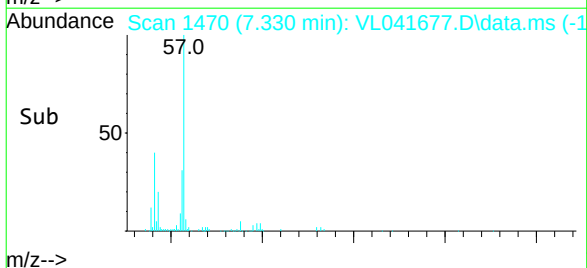
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

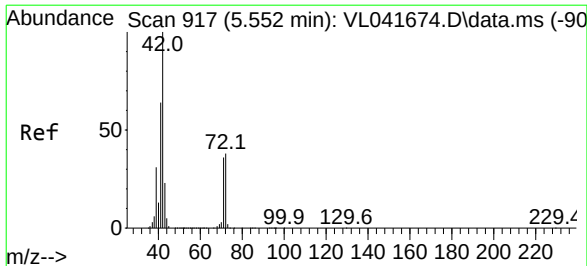


#40  
1,4-Dioxane  
Concen: 0.349 ppbv m  
RT: 7.330 min Scan# 1470  
Delta R.T. 0.048 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



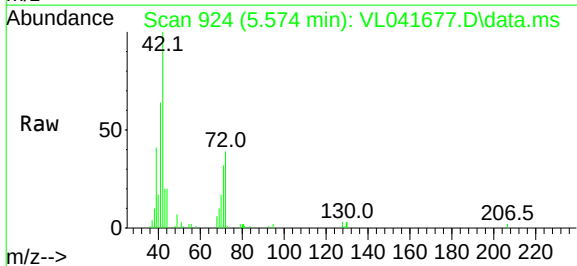
Tgt Ion: 88 Resp: 11696  
Ion Ratio Lower Upper  
88 100  
58 0.0 101.4 152.2#  
43 0.0 208.0 312.0#  
57 0.0 902.9 1354.3#





#41  
Tetrahydrofuran  
Concen: 0.411 ppbv m  
RT: 5.574 min Scan# 92  
Delta R.T. 0.023 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

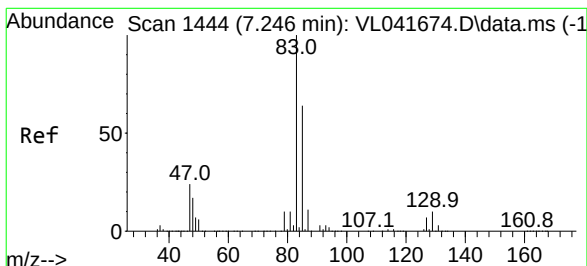
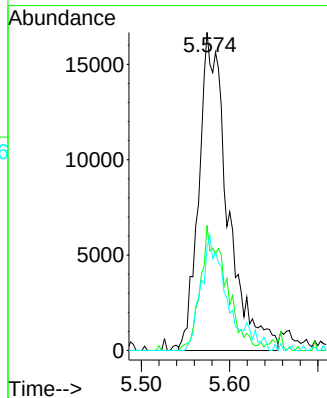
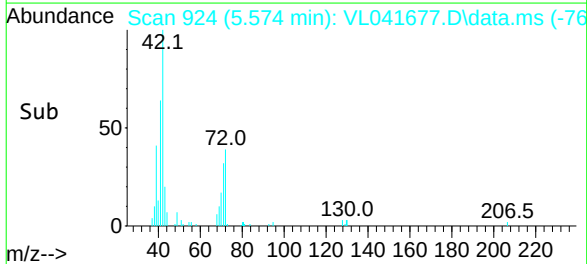
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



Tgt Ion: 42 Resp: 37743  
Ion Ratio Lower Upper  
42 100  
72 34.9 29.8 44.6  
71 33.7 29.4 44.2

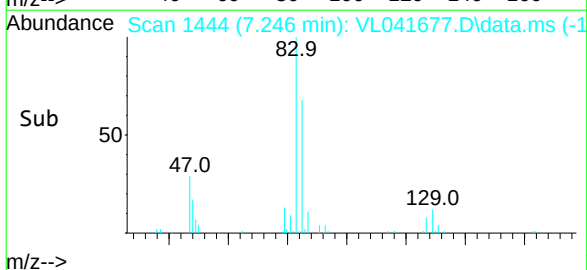
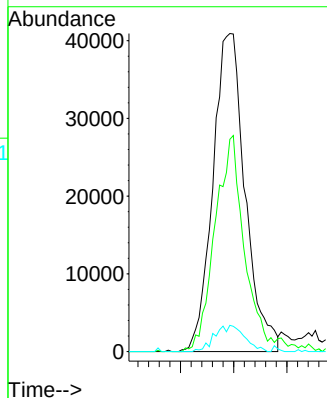
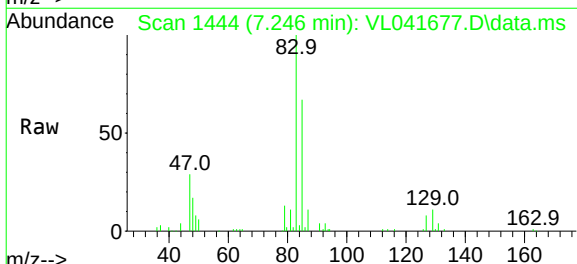
Manual Integrations  
APPROVED

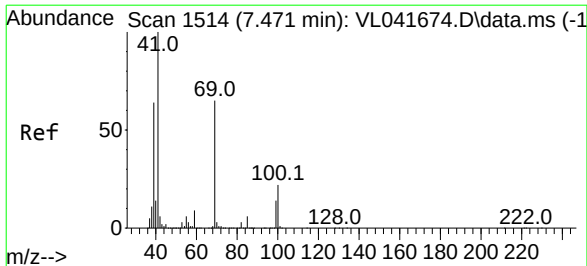
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#42  
Bromodichloromethane  
Concen: 0.459 ppbv  
RT: 7.246 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 83 Resp: 86164  
Ion Ratio Lower Upper  
83 100  
85 66.7 51.2 76.8  
127 8.3 6.0 9.0





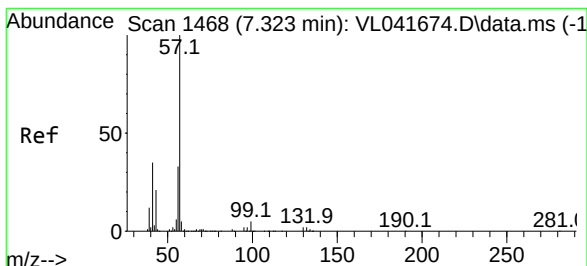
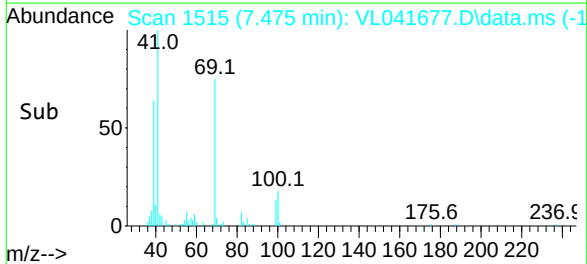
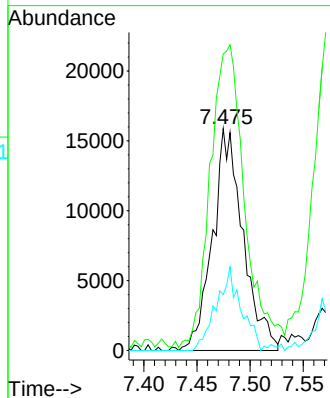
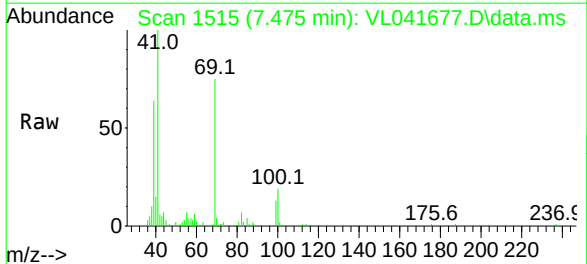
#43  
Methyl Methacrylate  
Concen: 0.377 ppbv m  
RT: 7.475 min Scan# 1514  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 69 Resp: 31683  
Ion Ratio Lower Upper  
69 100  
41 157.5 119.8 179.6  
100 31.5 27.3 40.9

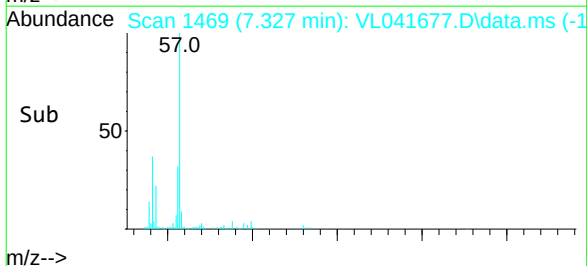
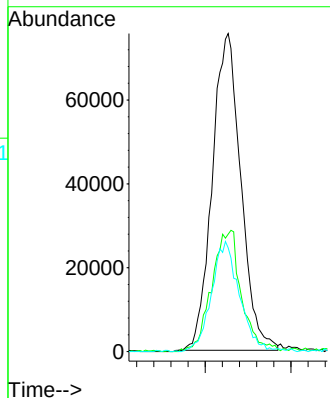
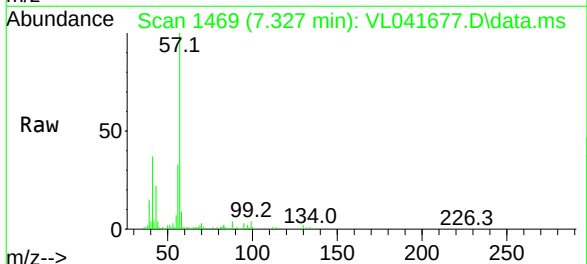
Manual Integrations  
APPROVED

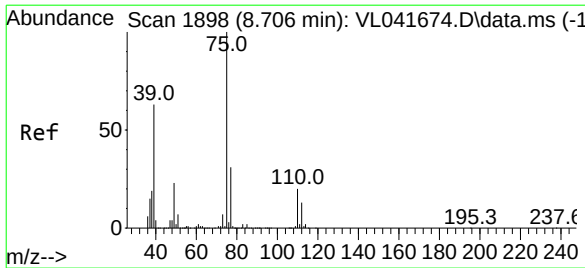
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#44  
2,2,4-Trimethylpentane  
Concen: 0.433 ppbv  
RT: 7.327 min Scan# 1469  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

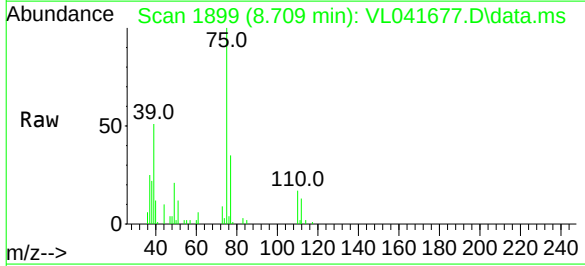
Tgt Ion: 57 Resp: 175510  
Ion Ratio Lower Upper  
57 100  
41 39.8 27.0 40.6  
56 34.3 25.8 38.6





#45  
t-1,3-Dichloropropene  
Concen: 0.352 ppbv m  
RT: 8.709 min Scan# 1899  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

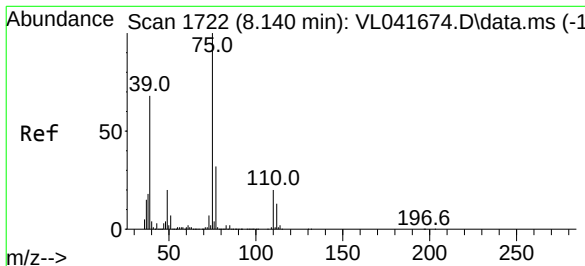
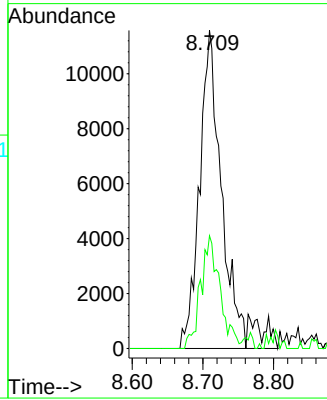
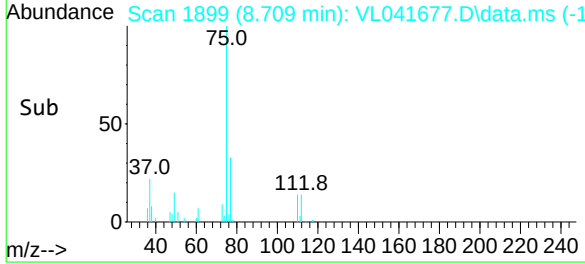
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



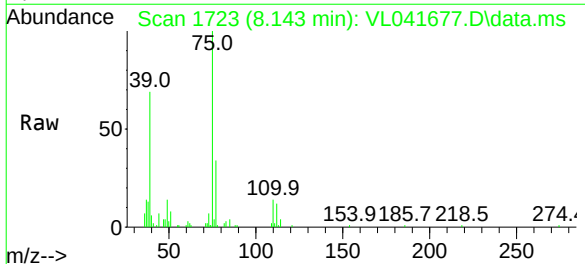
Tgt Ion: 75 Resp: 26475  
Ion Ratio Lower Upper  
75 100  
77 35.4 24.7 37.1

Manual Integrations  
APPROVED

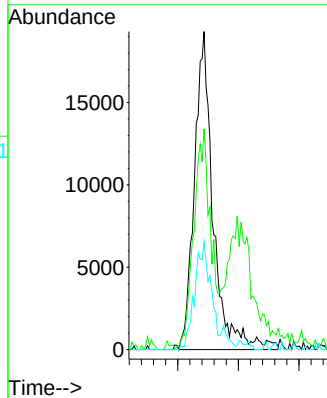
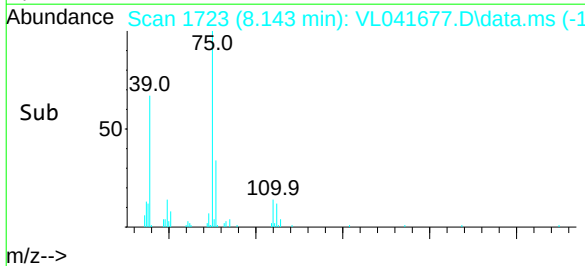
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

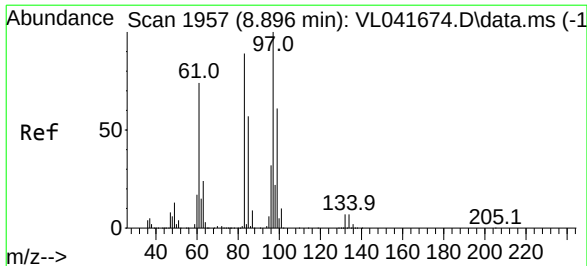


#46  
cis-1,3-Dichloropropene  
Concen: 0.379 ppbv m  
RT: 8.143 min Scan# 1723  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



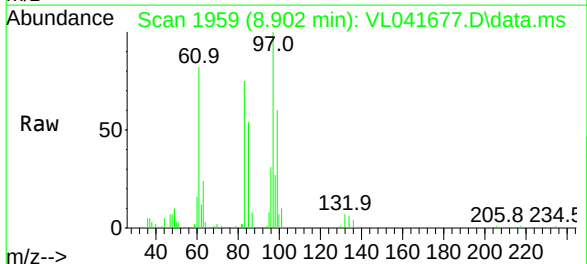
Tgt Ion: 75 Resp: 41408  
Ion Ratio Lower Upper  
75 100  
39 69.4 54.1 81.1  
77 33.7 25.3 37.9





#47  
1,1,2-Trichloroethane  
Concen: 0.512 ppbv m  
RT: 8.902 min Scan# 1957  
Delta R.T. 0.007 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

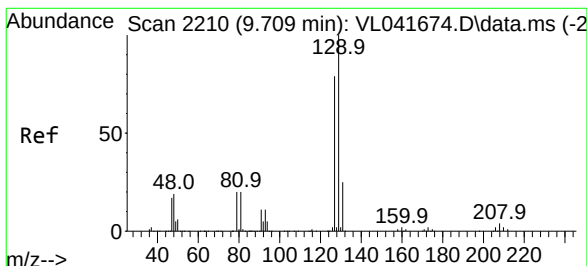
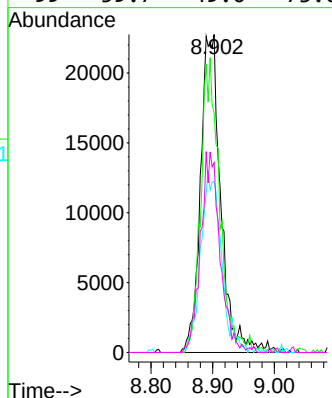
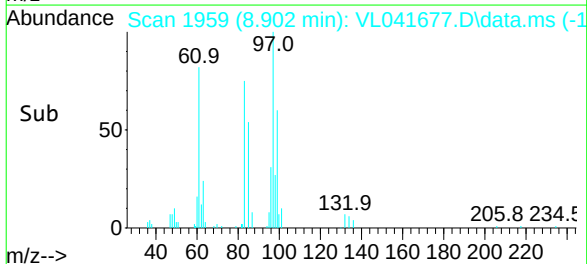
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 52244 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 75.3  | 71.0  | 106.6 |
| 85       | 53.7  | 45.4  | 68.2  |
| 99       | 59.7  | 49.0  | 73.6  |

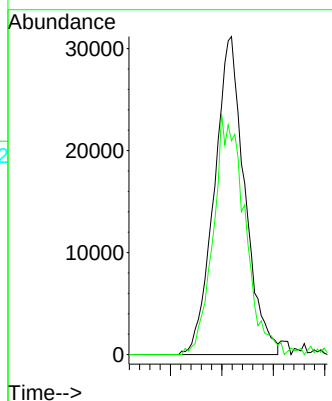
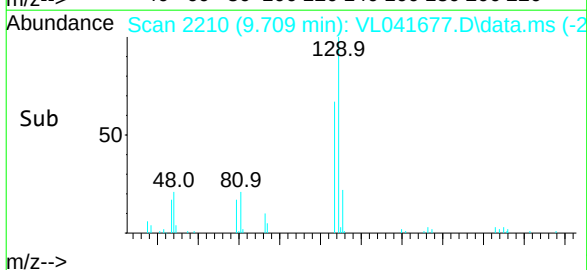
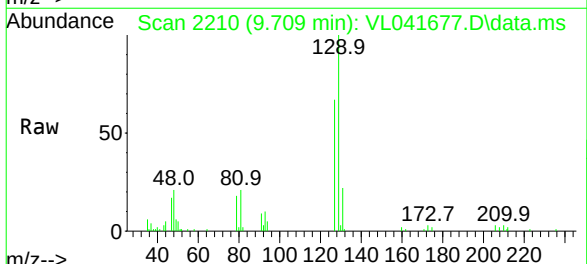
Manual Integrations  
APPROVED

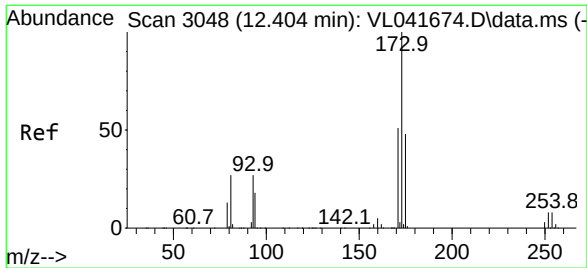
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#48  
Dibromochloromethane  
Concen: 0.411 ppbv  
RT: 9.709 min Scan# 2210  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 64053 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 79.0  | 39.1  | 117.2 |





#49

Bromoform

Concen: 0.386 ppbv m

RT: 12.401 min Scan# 3048

Delta R.T. -0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

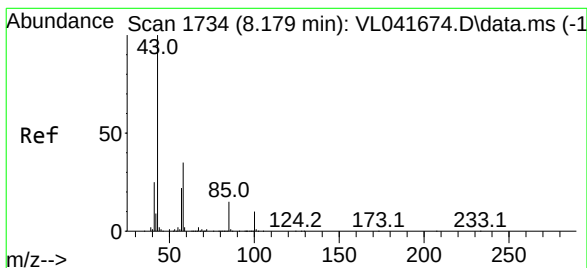
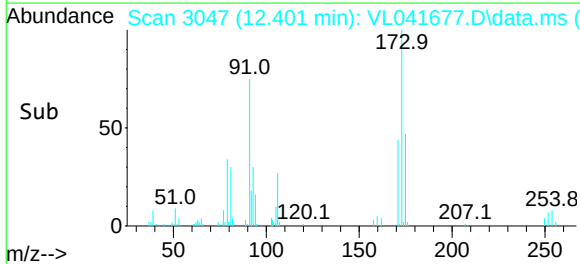
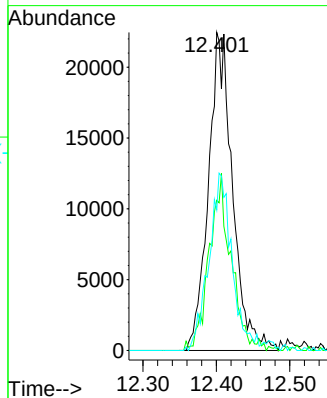
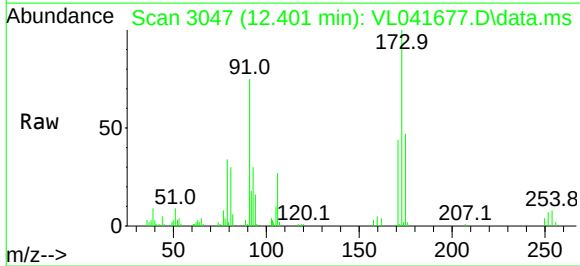
ClientSampleId :

VSTDICC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 51263 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 0.0   | 39.2  | 58.8  |
| 171       | 0.0   | 41.7  | 62.5  |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#50

4-Methyl-2-Pentanone

Concen: 0.399 ppbv m

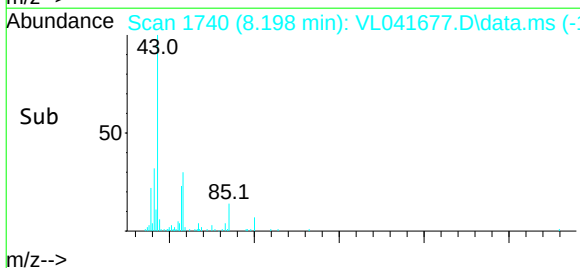
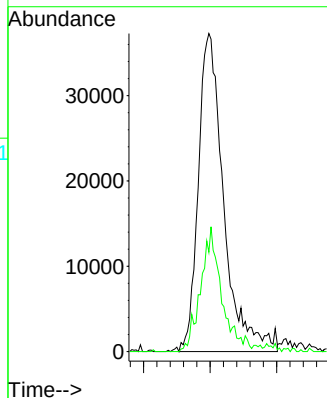
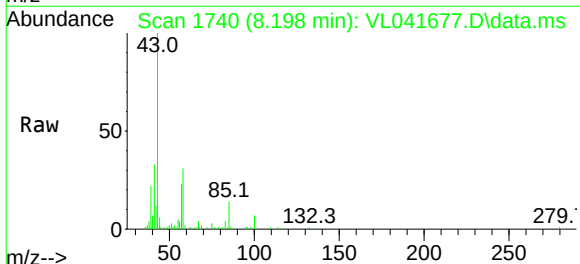
RT: 8.198 min Scan# 1740

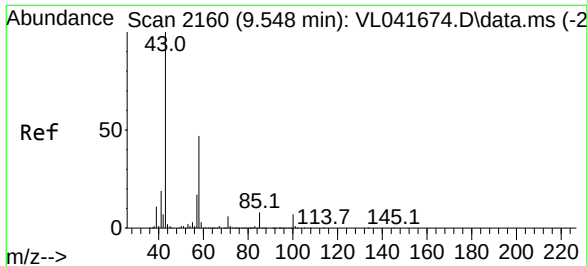
Delta R.T. 0.019 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

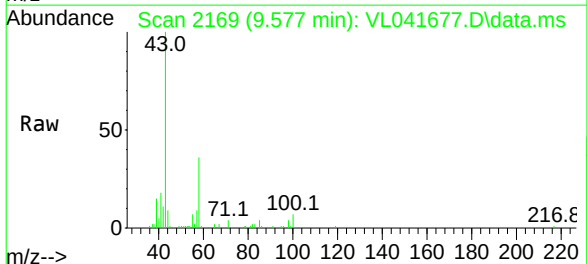
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 98725 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 32.9  | 27.7  | 41.5  |





#51  
2-Hexanone  
Concen: 0.370 ppbv m  
RT: 9.577 min Scan# 2160  
Delta R.T. 0.029 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

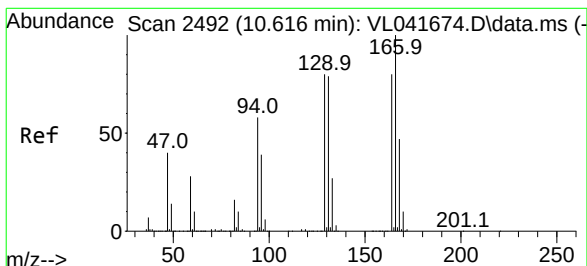
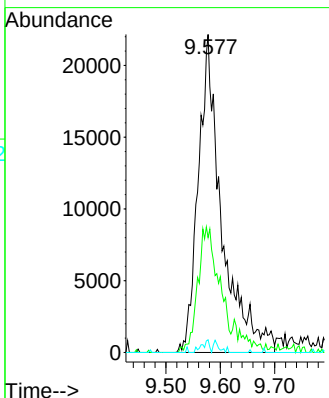
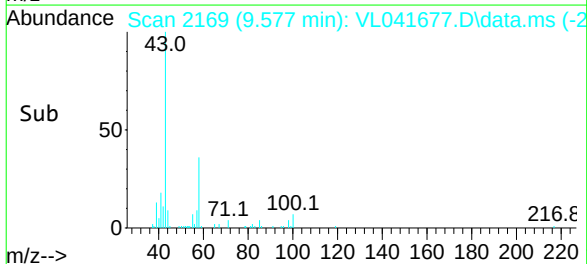
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



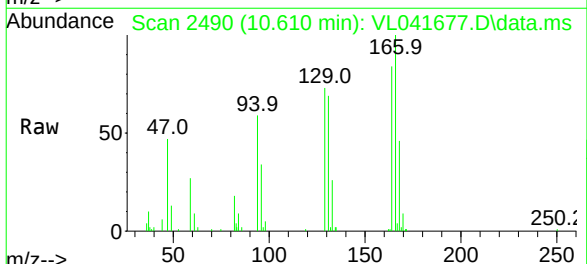
Tgt Ion: 43 Resp: 66460  
Ion Ratio Lower Upper  
43 100  
58 0.0 37.0 55.6#  
98 0.0 0.6 0.8#

Manual Integrations  
APPROVED

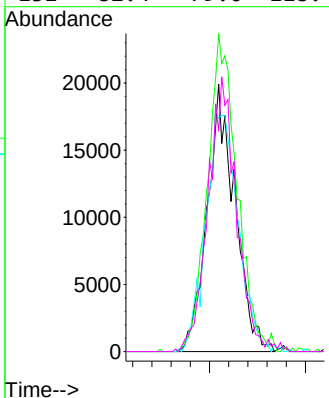
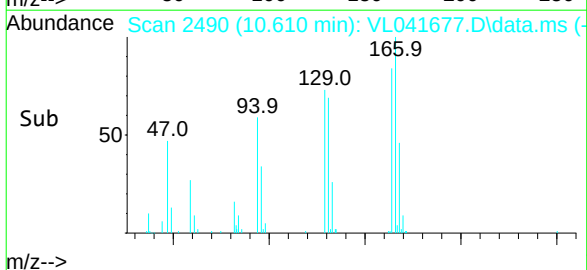
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

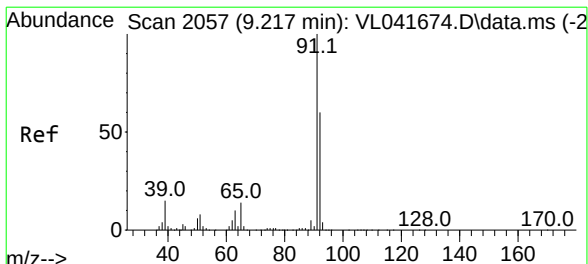


#52  
Tetrachloroethene  
Concen: 0.489 ppbv m  
RT: 10.610 min Scan# 2490  
Delta R.T. -0.006 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



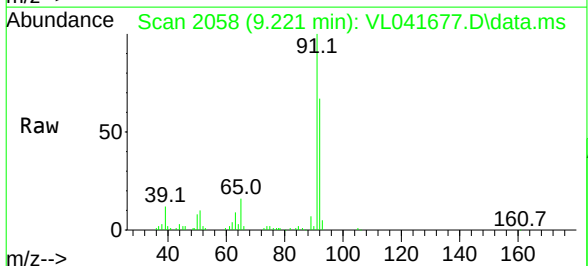
Tgt Ion:164 Resp: 40017  
Ion Ratio Lower Upper  
164 100  
166 118.9 100.2 150.4  
129 87.3 79.7 119.5  
131 82.4 79.0 118.4





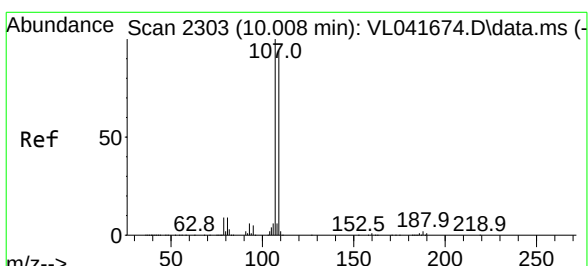
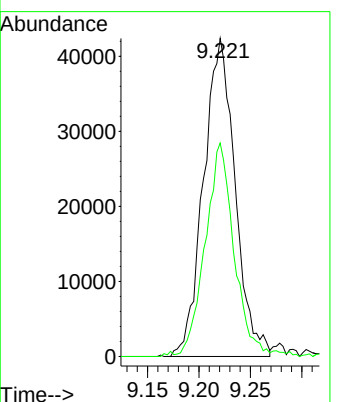
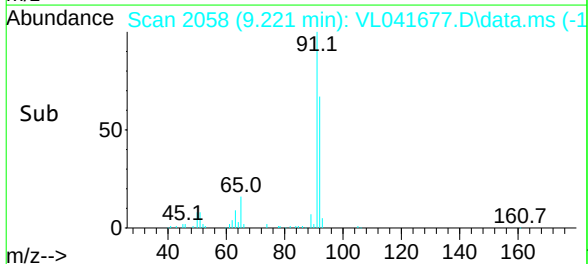
#53  
Toluene  
Concen: 0.359 ppbv  
RT: 9.221 min Scan# 2057  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Instrument : MSVOA\_L  
ClientSampleId : VSTDIC0.5

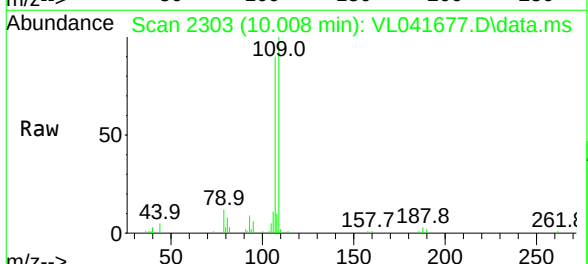


Tgt Ion: 91 Resp: 90468  
Ion Ratio Lower Upper  
91 100  
92 62.1 49.0 73.4

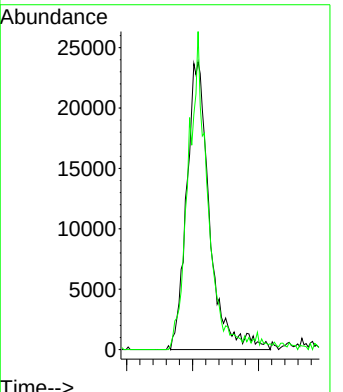
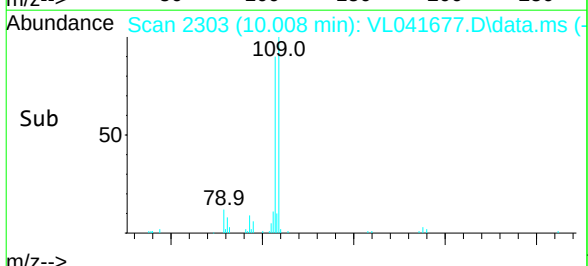
Manual Integrations  
**APPROVED**  
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



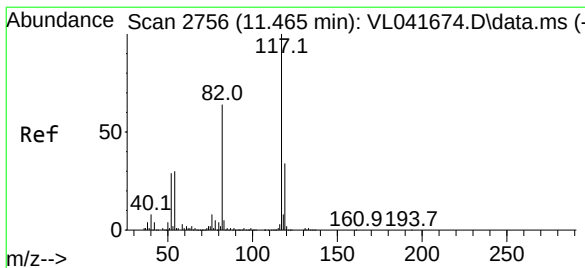
#54  
1,2-Dibromoethane  
Concen: 0.484 ppbv m  
RT: 10.008 min Scan# 2303  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



Tgt Ion:107 Resp: 57696  
Ion Ratio Lower Upper  
107 100  
109 110.5 74.9 112.3

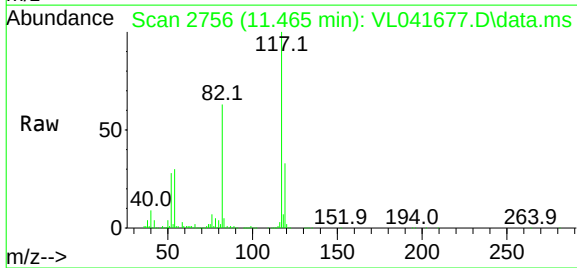






#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.465 min Scan# 2756  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

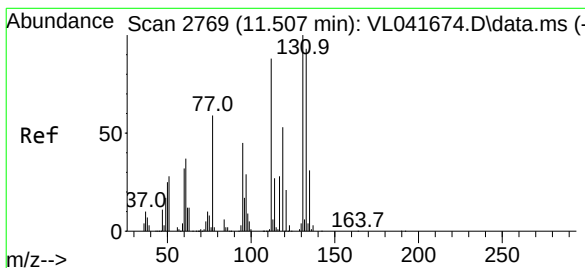
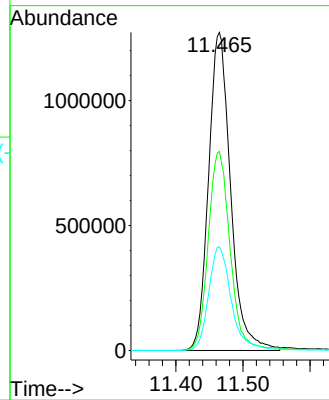
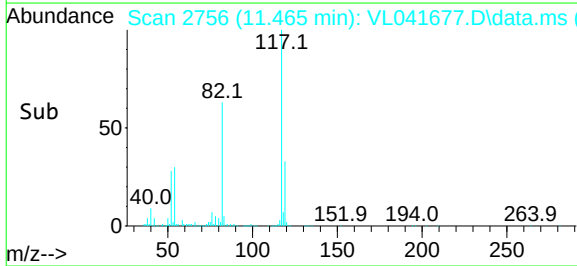
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



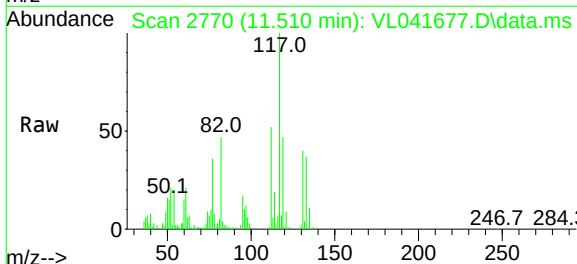
Tgt Ion:117 Resp: 2900644  
Ion Ratio Lower Upper  
117 100  
82 63.2 49.8 74.8  
119 33.9 24.2 36.4

Manual Integrations  
APPROVED

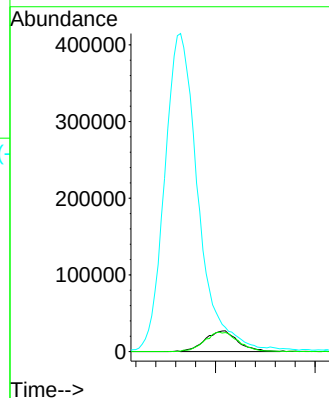
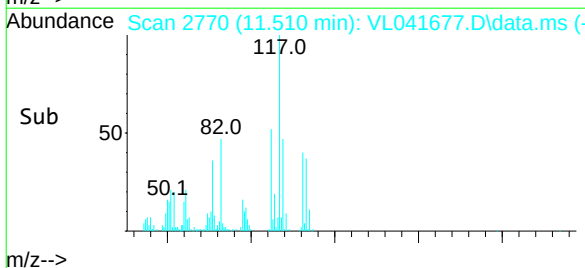
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

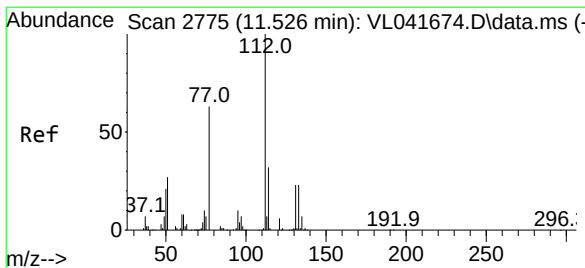


#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.512 ppbv  
RT: 11.510 min Scan# 2770  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



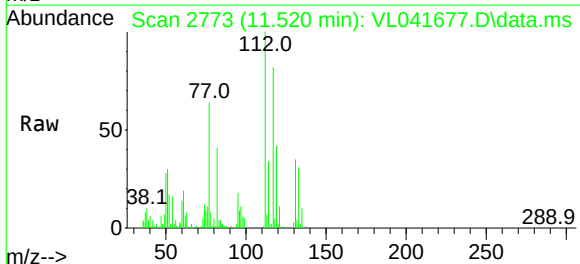
Tgt Ion:131 Resp: 61817  
Ion Ratio Lower Upper  
131 100  
133 97.3 76.5 114.7  
119 1592.6 49.8 74.8#





#57  
Chlorobenzene  
Concen: 0.525 ppbv m  
RT: 11.520 min Scan# 2775  
Delta R.T. -0.006 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

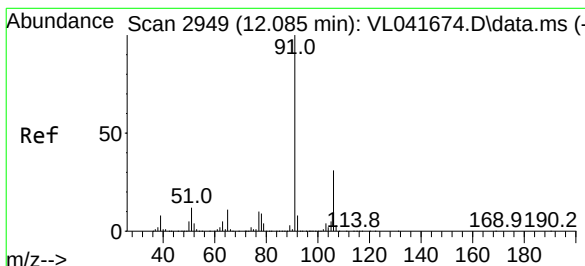
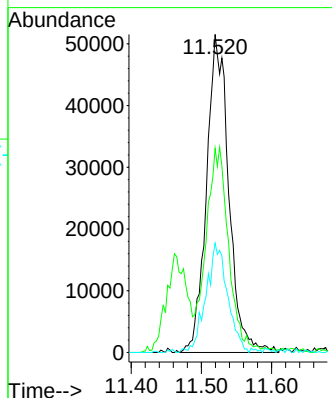
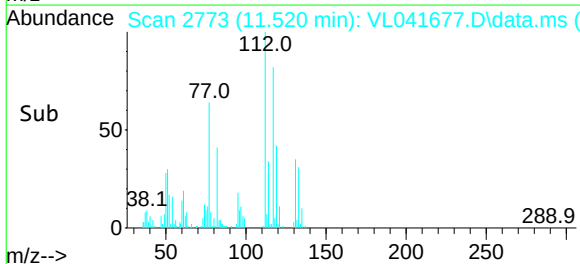
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



Tgt Ion: 112 Resp: 113601  
Ion Ratio Lower Upper  
112 100  
77 64.1 51.4 77.2  
114 34.3 28.4 34.8

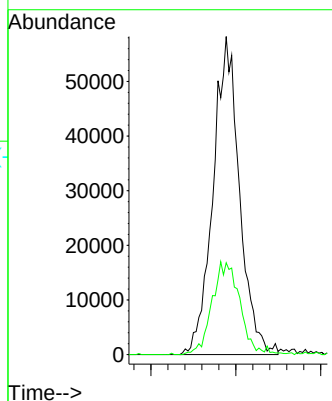
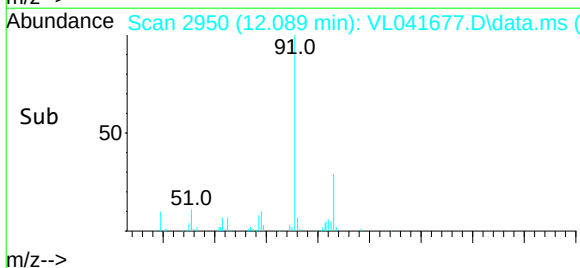
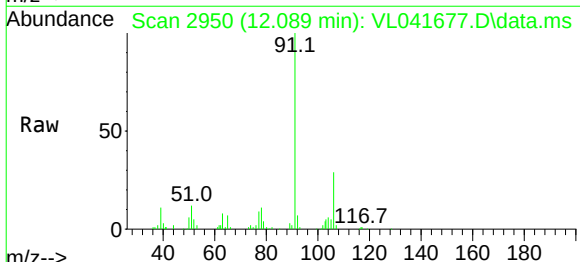
Manual Integrations  
APPROVED

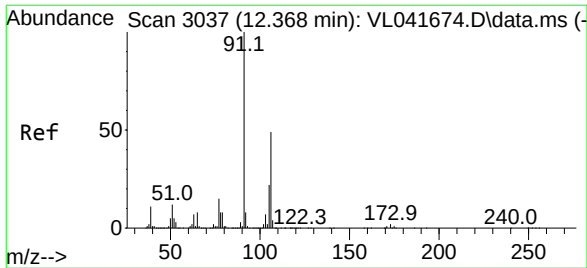
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#58  
Ethyl Benzene  
Concen: 0.392 ppbv m  
RT: 12.089 min Scan# 2950  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

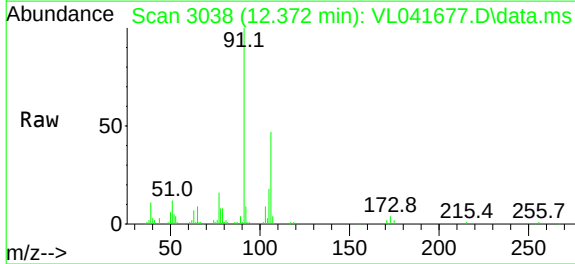
Tgt Ion: 91 Resp: 125893  
Ion Ratio Lower Upper  
91 100  
106 28.9 24.9 37.3





#59  
m/p-Xylene  
Concen: 0.840 ppbv m  
RT: 12.372 min Scan# 3038  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

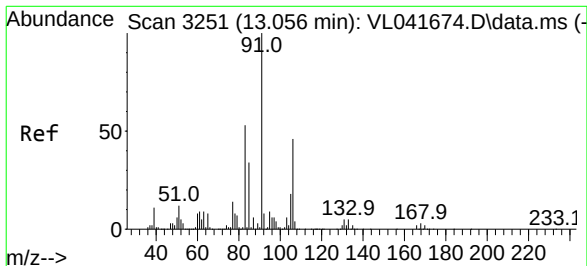
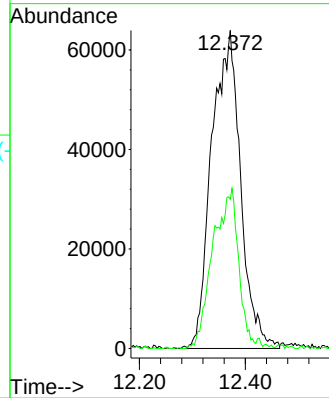
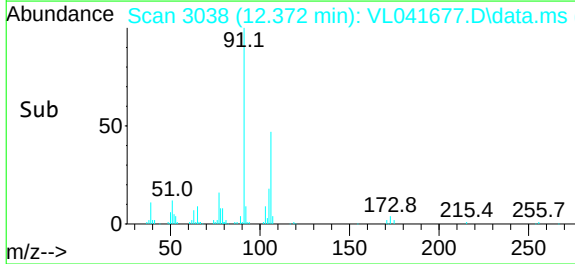
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



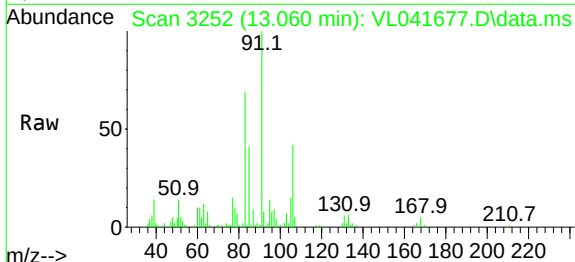
Tgt Ion: 91 Resp: 241366  
Ion Ratio Lower Upper  
91 100  
106 45.5 36.9 55.3

Manual Integrations  
APPROVED

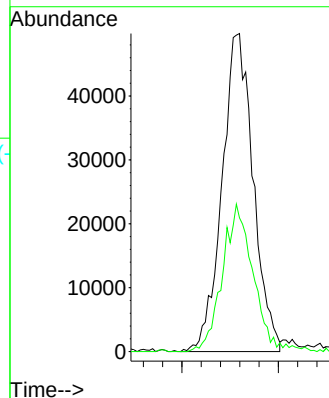
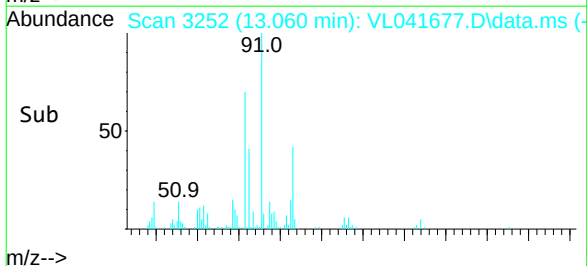
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

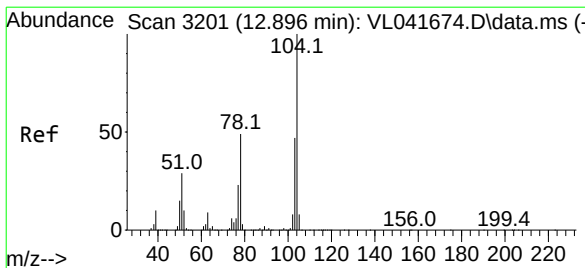


#60  
o-Xylene  
Concen: 0.408 ppbv  
RT: 13.060 min Scan# 3252  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



Tgt Ion: 91 Resp: 111856  
Ion Ratio Lower Upper  
91 100  
106 45.8 23.2 69.6





#61

Styrene

Concen: 0.320 ppbv m

RT: 12.899 min Scan# 3201

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

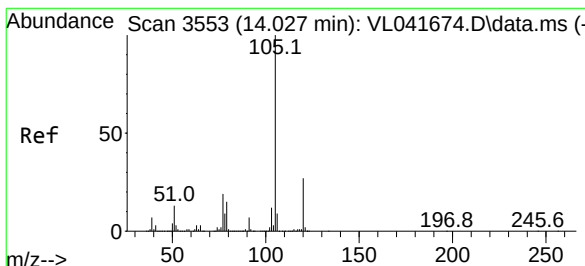
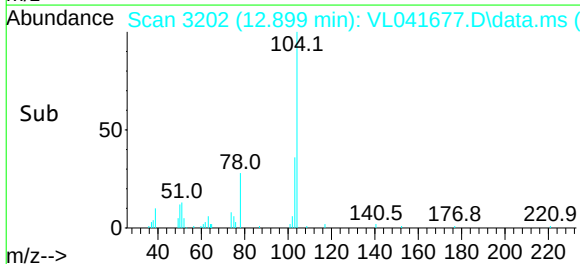
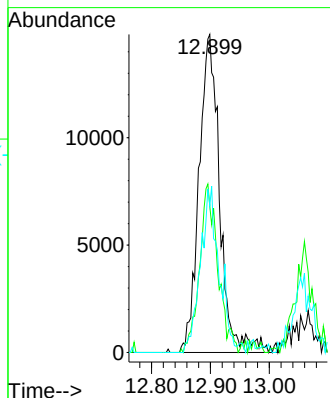
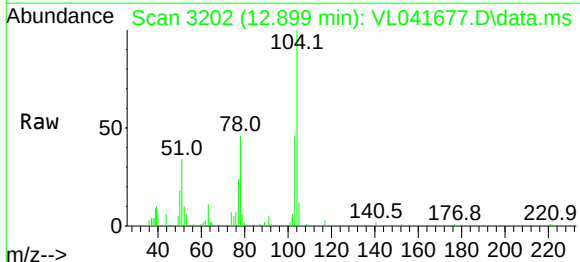
ClientSampleId :

VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 104   | Resp: | 36189 |
| Ion Ratio | Lower | Upper |       |
| 104       | 100   |       |       |
| 78        | 47.3  | 39.8  | 59.8  |
| 103       | 48.0  | 37.4  | 56.0  |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#62

Isopropylbenzene

Concen: 0.443 ppbv

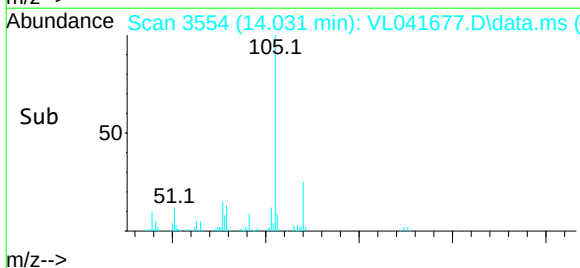
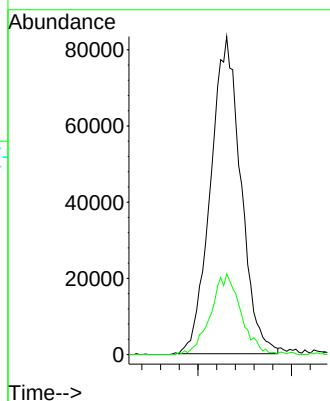
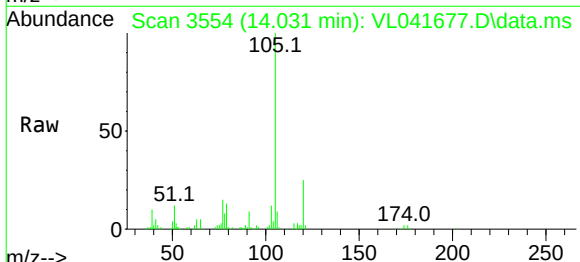
RT: 14.031 min Scan# 3554

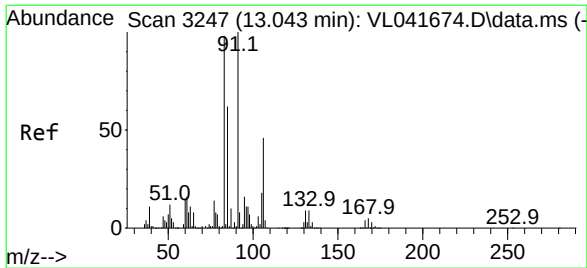
Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 187478 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 25.6  | 21.1  | 31.7   |





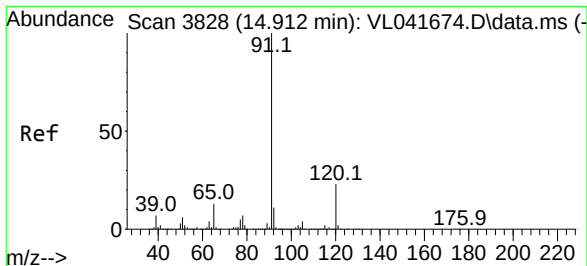
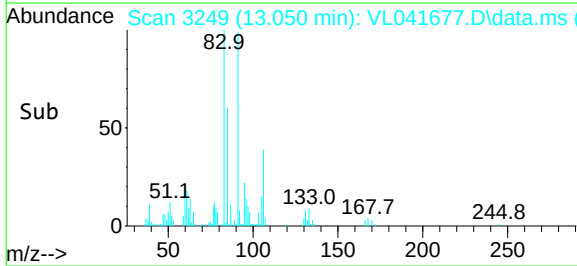
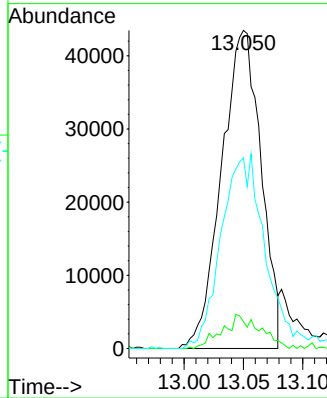
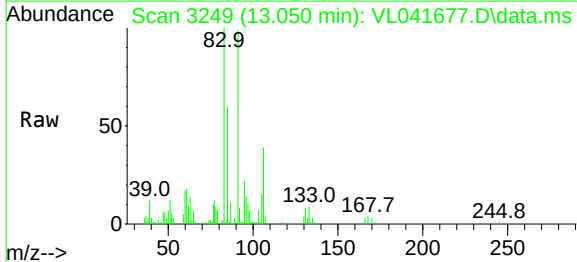
#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.503 ppbv  
RT: 13.050 min Scan# 3247  
Delta R.T. 0.007 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 83 Resp: 100534  
Ion Ratio Lower Upper  
83 100  
131 10.2 4.8 14.3  
85 69.1 32.6 98.0

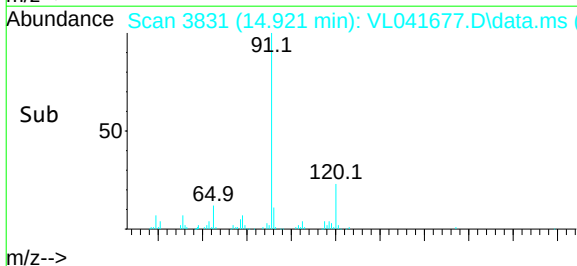
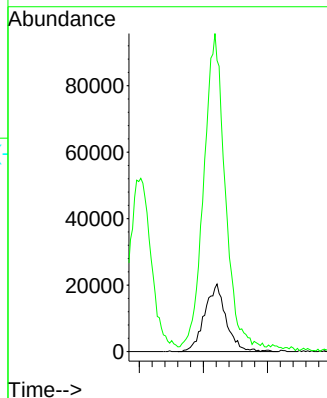
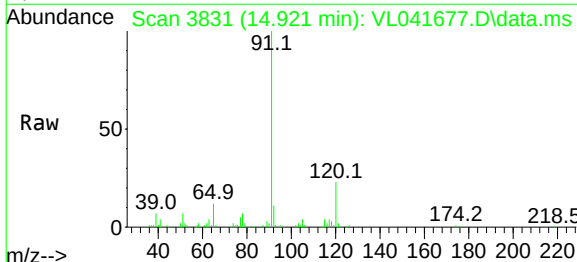
Manual Integrations  
APPROVED

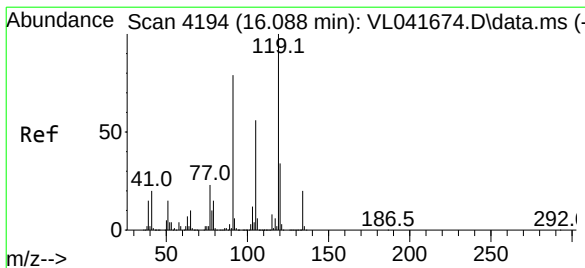
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#64  
n-propylbenzene  
Concen: 0.426 ppbv m  
RT: 14.921 min Scan# 3831  
Delta R.T. 0.010 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion:120 Resp: 47206  
Ion Ratio Lower Upper  
120 100  
91 486.2 362.4 543.6





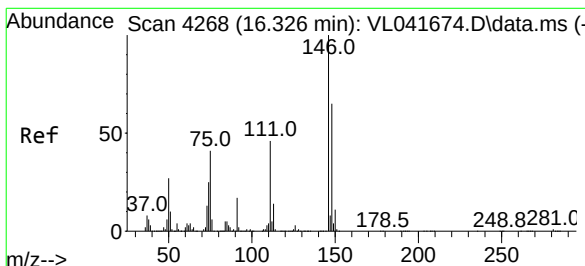
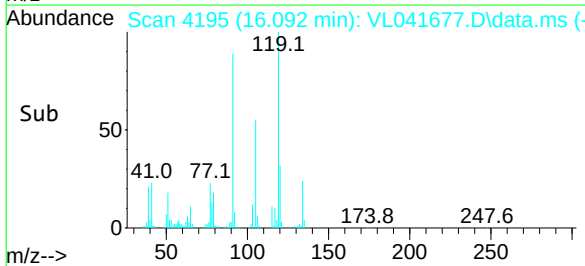
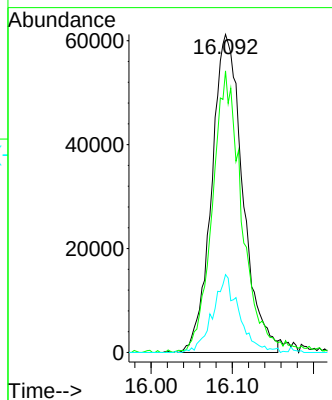
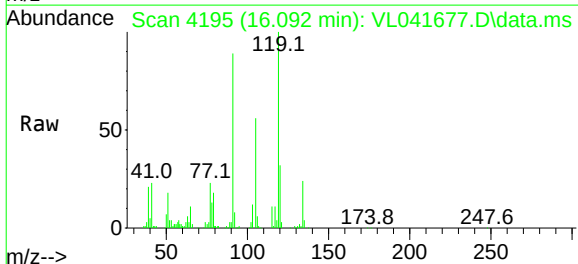
#65  
tert-Butylbenzene  
Concen: 0.428 ppbv  
RT: 16.092 min Scan# 4195  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 119 Resp: 162846  
Ion Ratio Lower Upper  
119 100  
91 86.0 64.3 96.5  
134 20.8 15.8 23.8

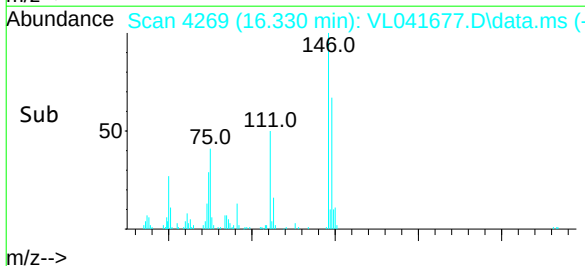
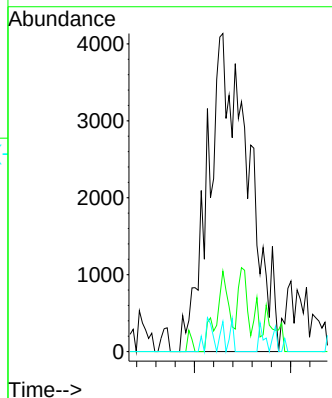
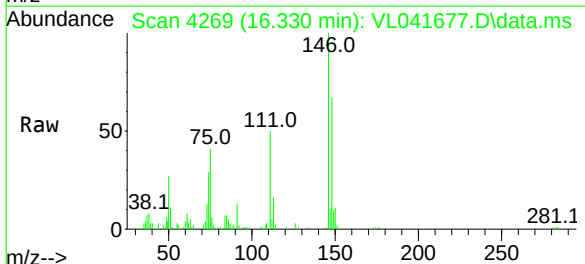
Manual Integrations  
APPROVED

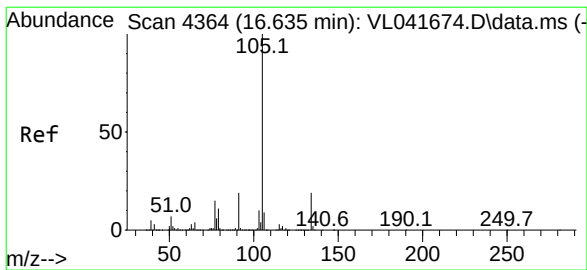
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#66  
Benzyl Chloride  
Concen: 0.440 ppbv m  
RT: 16.330 min Scan# 4269  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

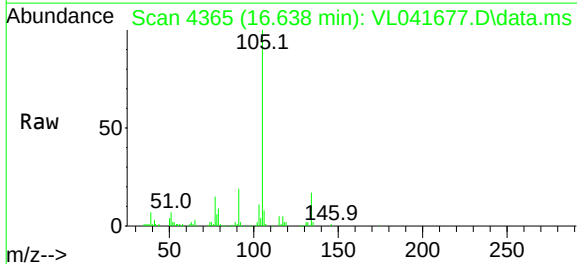
Tgt Ion: 91 Resp: 12069  
Ion Ratio Lower Upper  
91 100  
126 0.0 13.8 20.6#  
128 3.8 4.3 6.5#





#67  
sec-Butylbenzene  
Concen: 0.429 ppbv  
RT: 16.638 min Scan# 4364  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

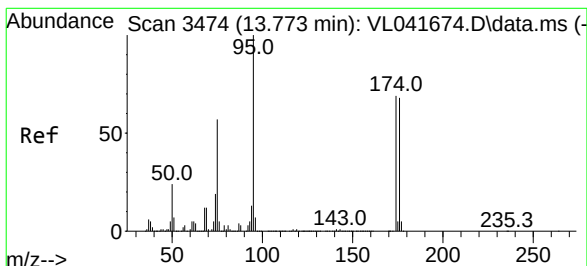
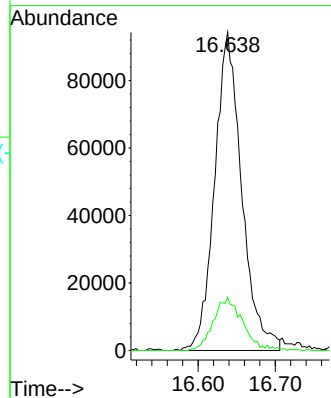
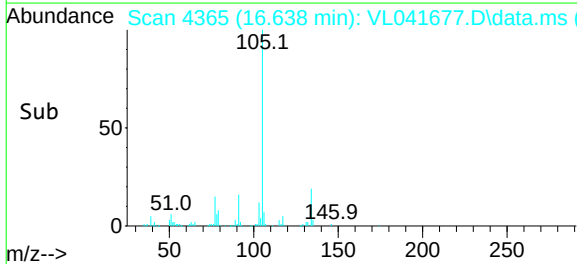
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



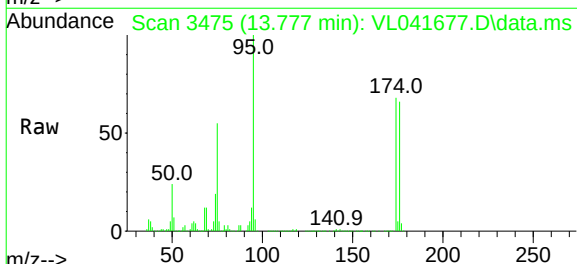
Tgt Ion: 105 Resp: 230007  
Ion Ratio Lower Upper  
105 100  
134 18.1 14.6 22.0

Manual Integrations  
APPROVED

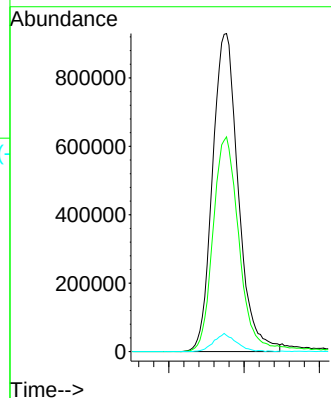
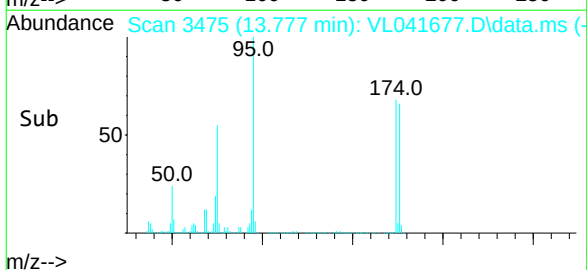
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

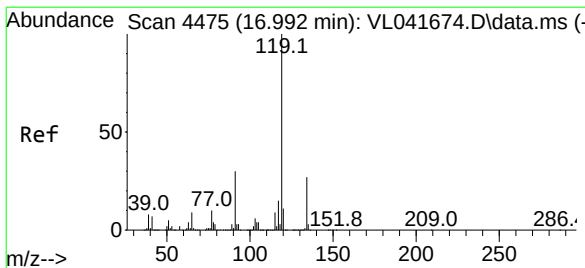


#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.318 ppbv  
RT: 13.777 min Scan# 3475  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



Tgt Ion: 95 Resp: 2213310  
Ion Ratio Lower Upper  
95 100  
174 69.7 55.6 83.4  
175 5.1 4.2 6.2





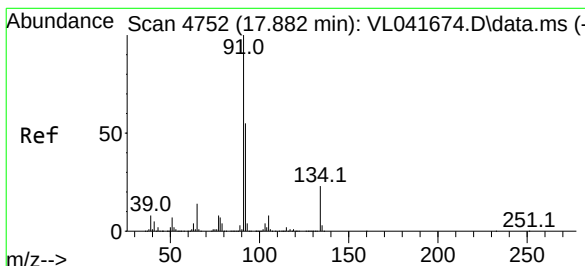
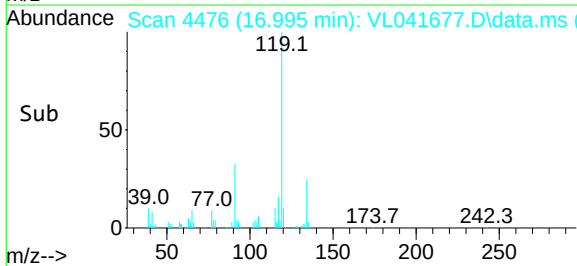
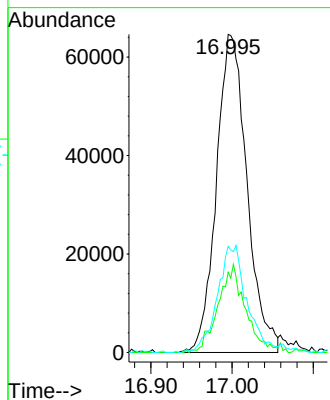
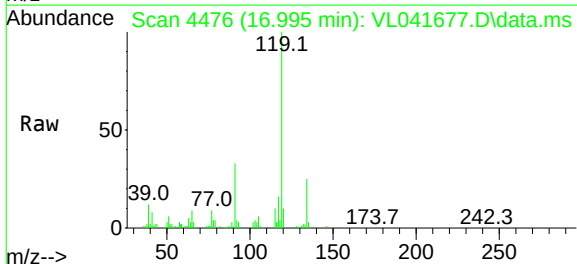
#69  
p-Isopropyltoluene  
Concen: 0.389 ppbv  
RT: 16.995 min Scan# 4475  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 119 Resp: 169014  
Ion Ratio Lower Upper  
119 100  
134 25.1 20.8 31.2  
91 33.6 23.2 34.8

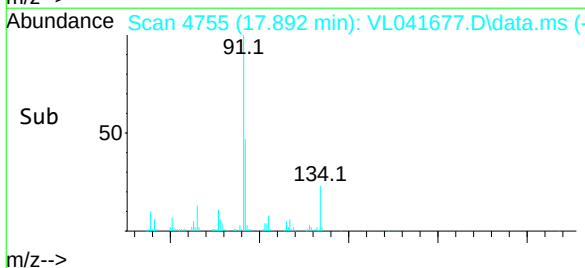
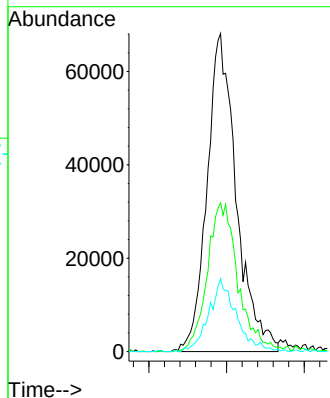
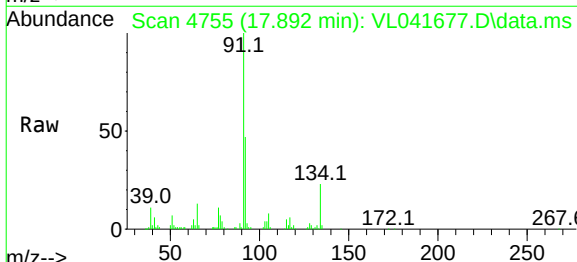
Manual Integrations  
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Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

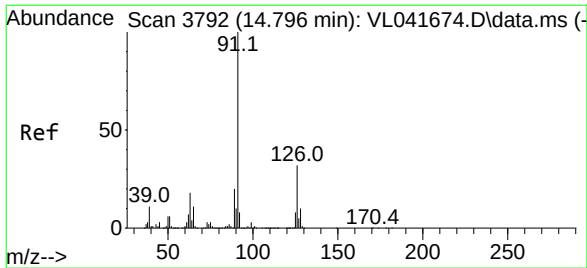


#70  
n-Butylbenzene  
Concen: 0.402 ppbv m  
RT: 17.892 min Scan# 4755  
Delta R.T. 0.010 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 91 Resp: 178790  
Ion Ratio Lower Upper  
91 100  
92 49.3 43.3 64.9  
134 21.5 18.4 27.6







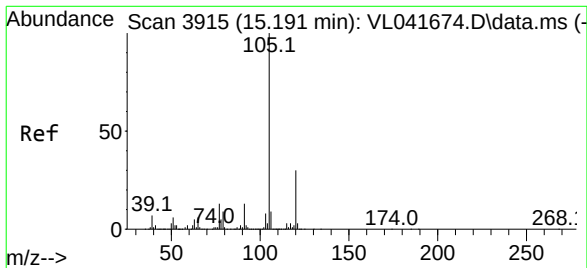
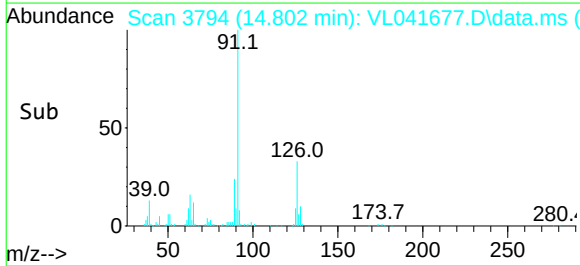
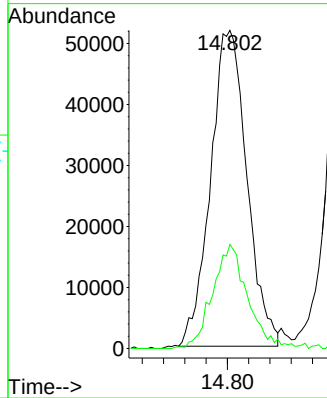
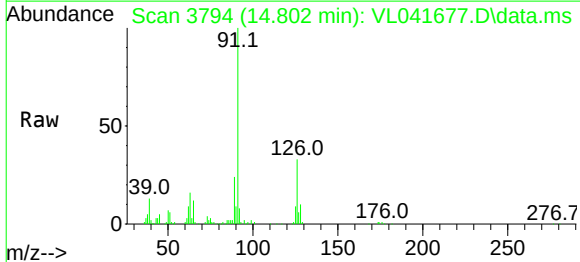
#71  
2-Chlorotoluene  
Concen: 0.401 ppbv  
RT: 14.802 min Scan# 3792  
Delta R.T. 0.007 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 91 Resp: 122982  
Ion Ratio Lower Upper  
91 100  
126 31.8 12.8 51.0

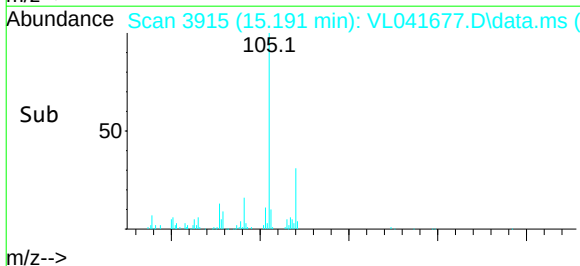
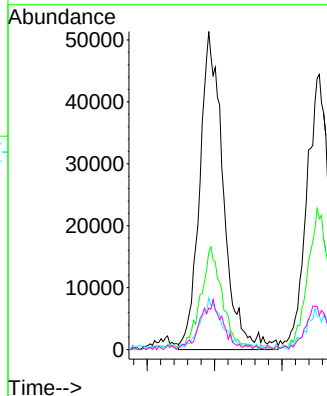
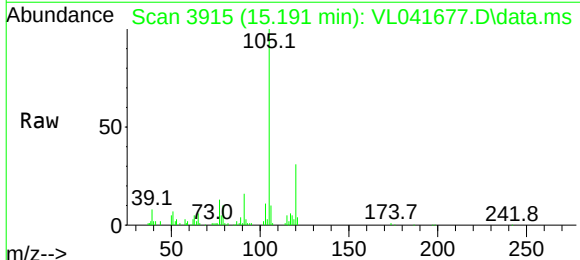
Manual Integrations  
APPROVED

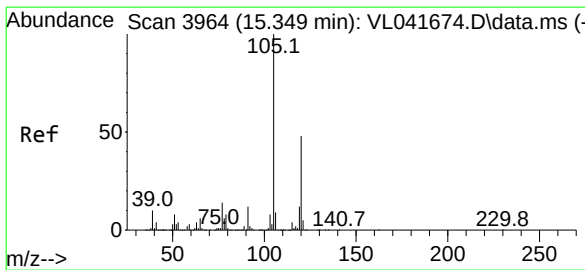
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#72  
4-Ethyltoluene  
Concen: 0.393 ppbv m  
RT: 15.191 min Scan# 3915  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

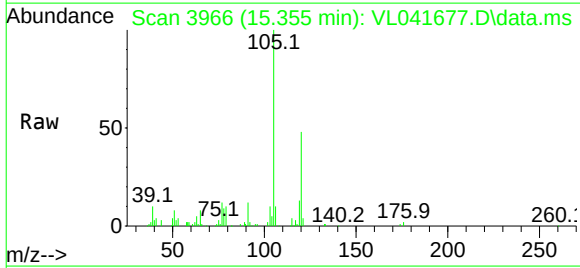
Tgt Ion:105 Resp: 125281  
Ion Ratio Lower Upper  
105 100  
120 30.3 25.0 37.4  
91 17.3 10.6 15.8#  
77 15.4 11.1 16.7





#73  
1,3,5-Trimethylbenzene  
Concen: 0.412 ppbv m  
RT: 15.355 min Scan# 3966  
Delta R.T. 0.007 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

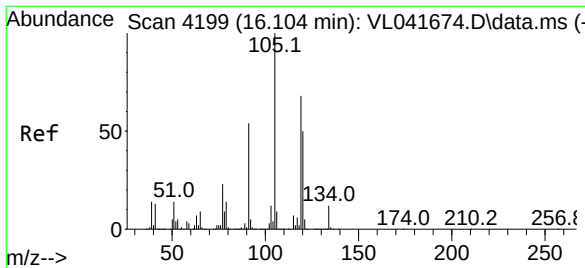
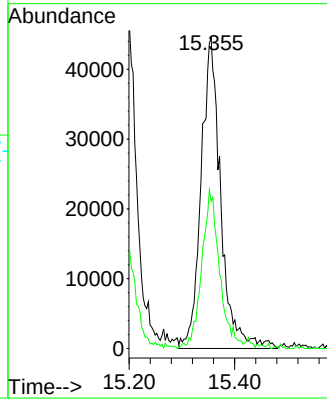
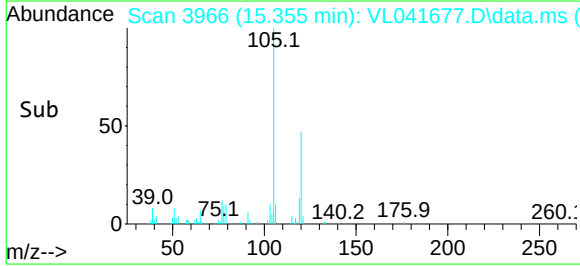
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



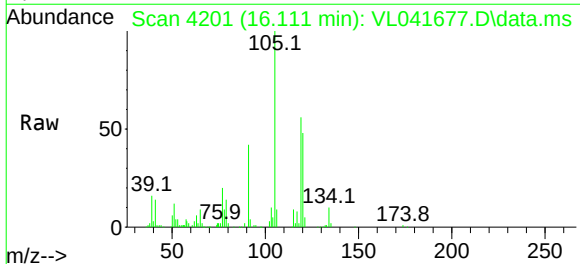
Tgt Ion:105 Resp: 115096  
Ion Ratio Lower Upper  
105 100  
120 47.5 38.4 57.6

Manual Integrations  
APPROVED

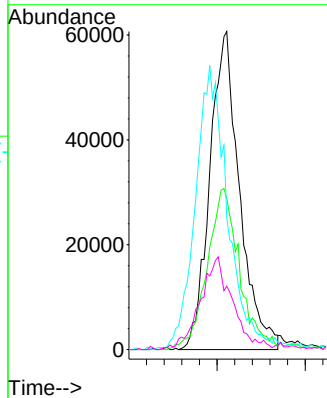
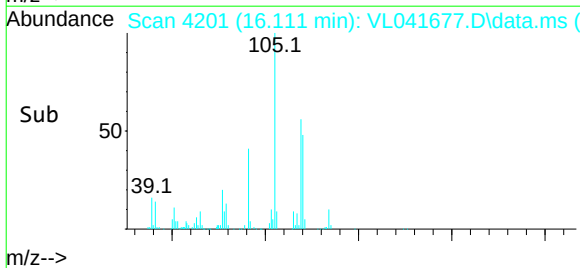
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

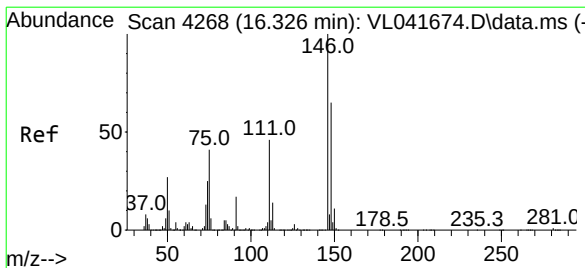


#74  
1,2,4-Trimethylbenzene  
Concen: 0.437 ppbv  
RT: 16.111 min Scan# 4201  
Delta R.T. 0.007 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



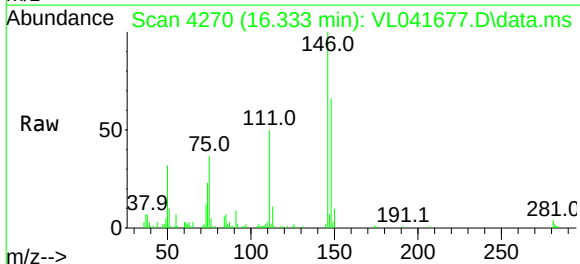
Tgt Ion:105 Resp: 142178  
Ion Ratio Lower Upper  
105 100  
120 46.3 39.8 59.8  
91 39.2 43.2 64.8#  
77 18.1 18.5 27.7#





#75  
1,3-Dichlorobenzene  
Concen: 0.464 ppbv m  
RT: 16.333 min Scan# 4268  
Delta R.T. 0.007 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

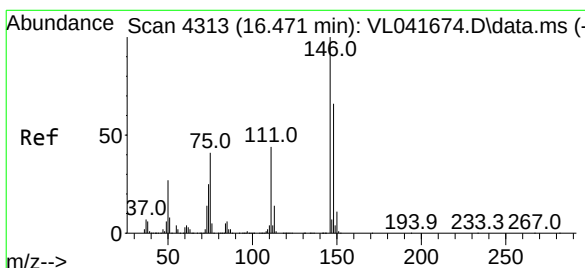
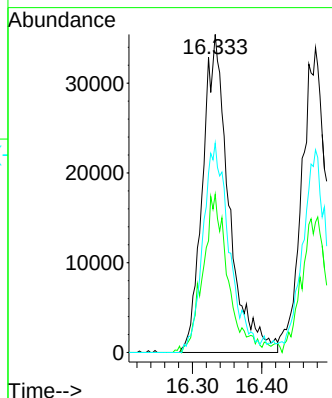
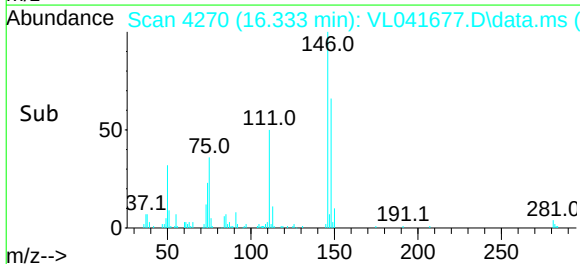
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



Tgt Ion:146 Resp: 93240  
Ion Ratio Lower Upper  
146 100  
111 0.0 22.8 68.3#  
148 0.0 32.4 97.0#

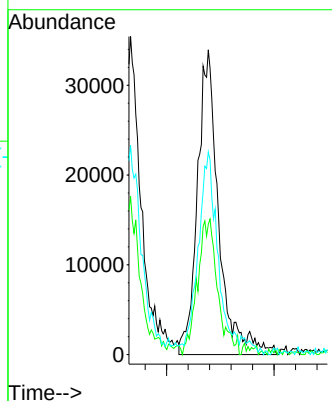
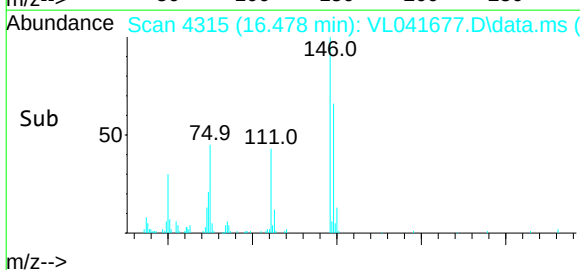
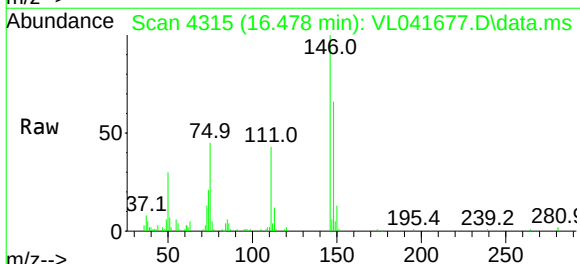
Manual Integrations  
APPROVED

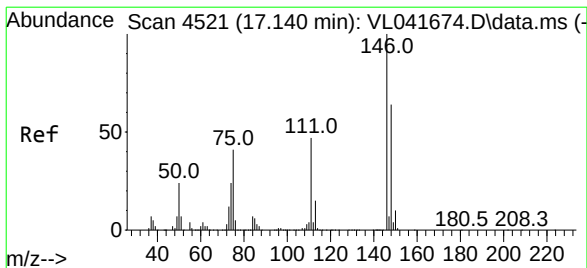
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#76  
1,4-Dichlorobenzene  
Concen: 0.473 ppbv m  
RT: 16.478 min Scan# 4315  
Delta R.T. 0.007 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion:146 Resp: 93341  
Ion Ratio Lower Upper  
146 100  
111 0.0 22.1 66.3#  
148 0.0 33.3 99.8#





#77

1,2-Dichlorobenzene

Concen: 0.468 ppbv

RT: 17.146 min Scan# 4521

Delta R.T. 0.007 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

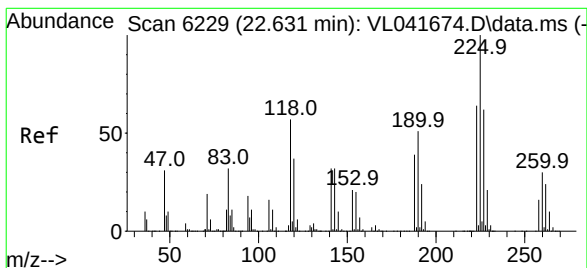
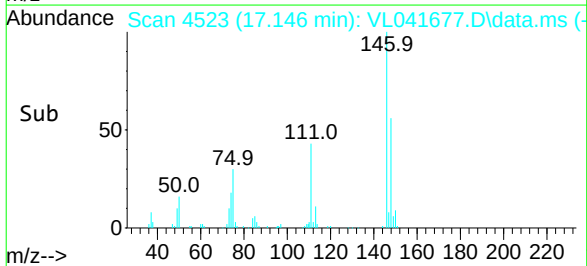
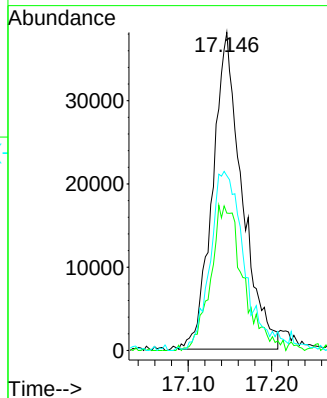
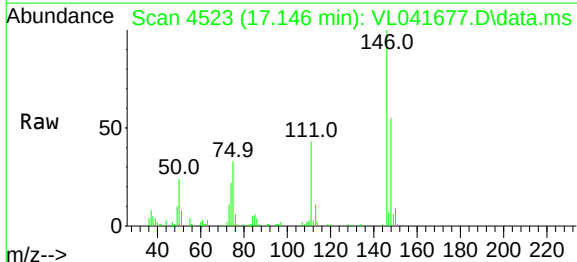
ClientSampleId :

VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 93228 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 52.2  | 23.4  | 70.3  |
| 148      | 67.8  | 32.1  | 96.5  |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#78

Hexachloro-1,3-Butadiene

Concen: 0.570 ppbv m

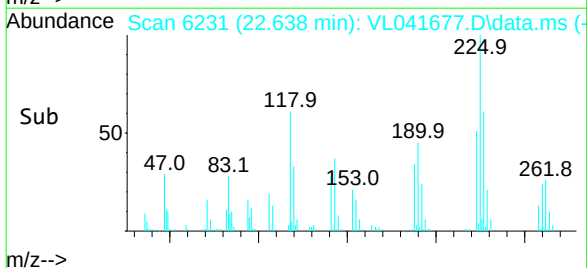
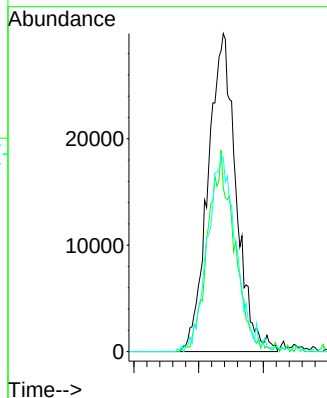
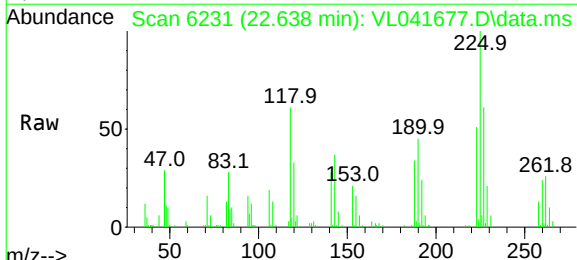
RT: 22.638 min Scan# 6231

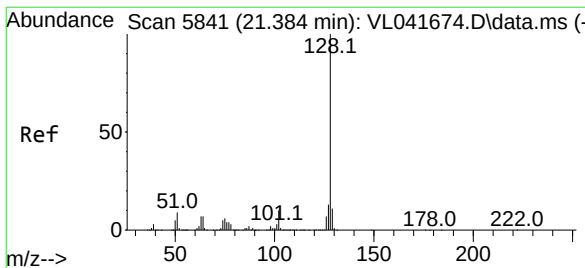
Delta R.T. 0.007 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

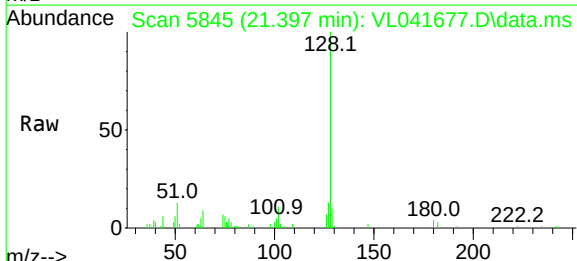
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 89942 |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 59.7  | 51.1  | 76.7  |
| 227      | 63.7  | 51.3  | 76.9  |





#79  
Naphthalene  
Concen: 0.382 ppbv m  
RT: 21.397 min Scan# 5845  
Delta R.T. 0.013 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

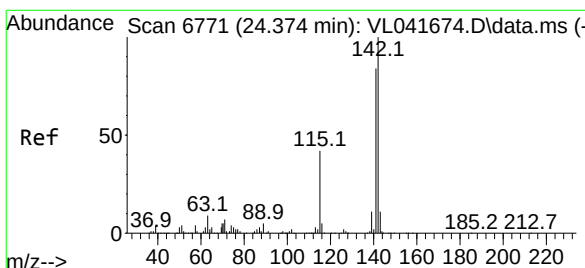
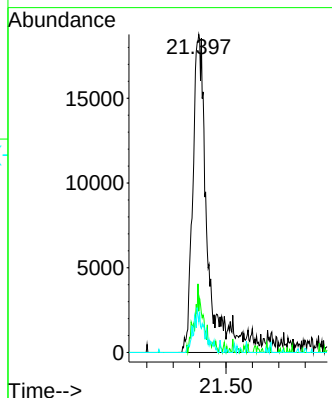
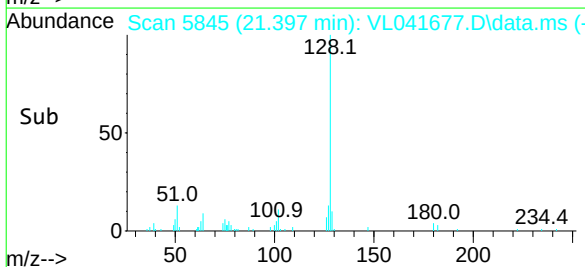
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



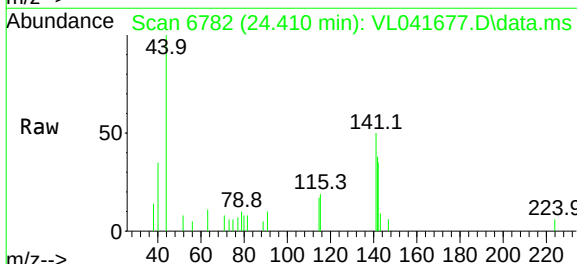
Tgt Ion:128 Resp: 76368  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.5 15.7  
129 9.6 8.7 13.1

Manual Integrations  
APPROVED

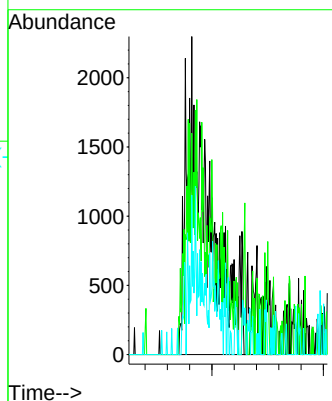
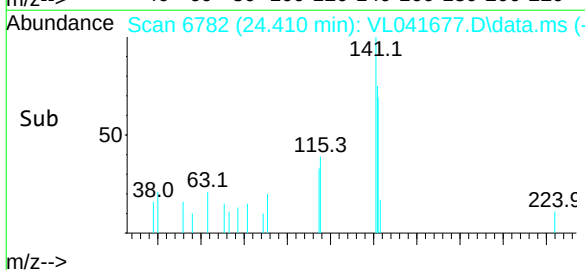
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

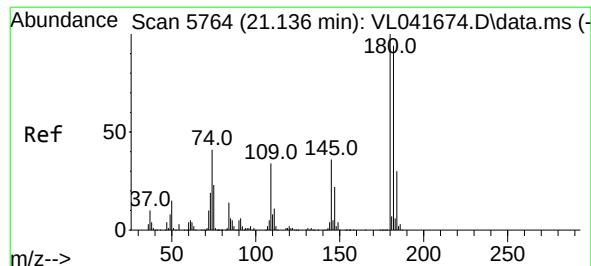


#80  
Naphthalene, 2-methyl-  
Concen: 0.473 ppbv m  
RT: 24.410 min Scan# 6782  
Delta R.T. 0.036 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13



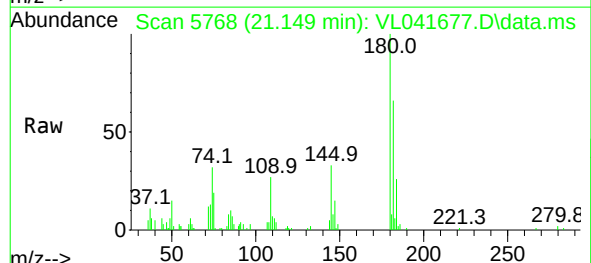
Tgt Ion:142 Resp: 17526  
Ion Ratio Lower Upper  
142 100  
141 31.2 68.1 102.1#  
115 13.2 33.1 49.7#





#81  
1,2,4-Trichlorobenzene  
Concen: 0.424 ppbv m  
RT: 21.149 min Scan# 5768  
Delta R.T. 0.013 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

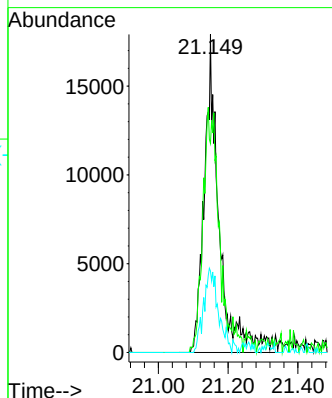
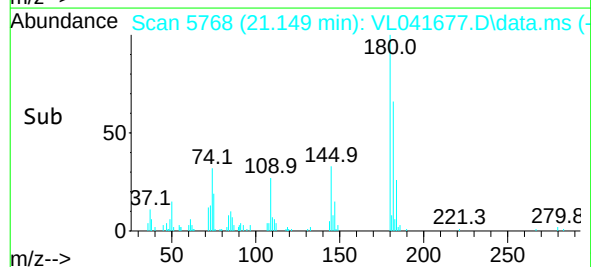
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 52746 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 87.8  | 78.2  | 117.2 |
| 184       | 0.0   | 25.0  | 37.4  |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041678.D  
 Acq On : 7 Nov 2024 12:52  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:11:58 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.189  | 49    | 1123559  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 6.648  | 114   | 3159589  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 11.465 | 117   | 2815160  | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 13.774 | 95    | 2112048  | 10.145   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 101.400% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 2.915  | 62    | 5503     | 0.078    | ppbv   | 97       |
| 32) 1,1,1-Trichloroethane     | 6.002  | 97    | 14483m   | 0.087    | ppbv   |          |
| 35) Carbon Tetrachloride      | 6.488  | 117   | 13438m   | 0.080    | ppbv   |          |
| 38) Trichloroethene           | 7.291  | 130   | 7336m    | 0.081    | ppbv   |          |
| 52) Tetrachloroethene         | 10.613 | 164   | 6067m    | 0.076    | ppbv   |          |
| 54) 1,2-Dibromoethane         | 10.005 | 107   | 7494m    | 0.064    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 13.047 | 83    | 15978m   | 0.082    | ppbv   |          |
| 79) Naphthalene               | 21.400 | 128   | 7580m    | 0.039    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

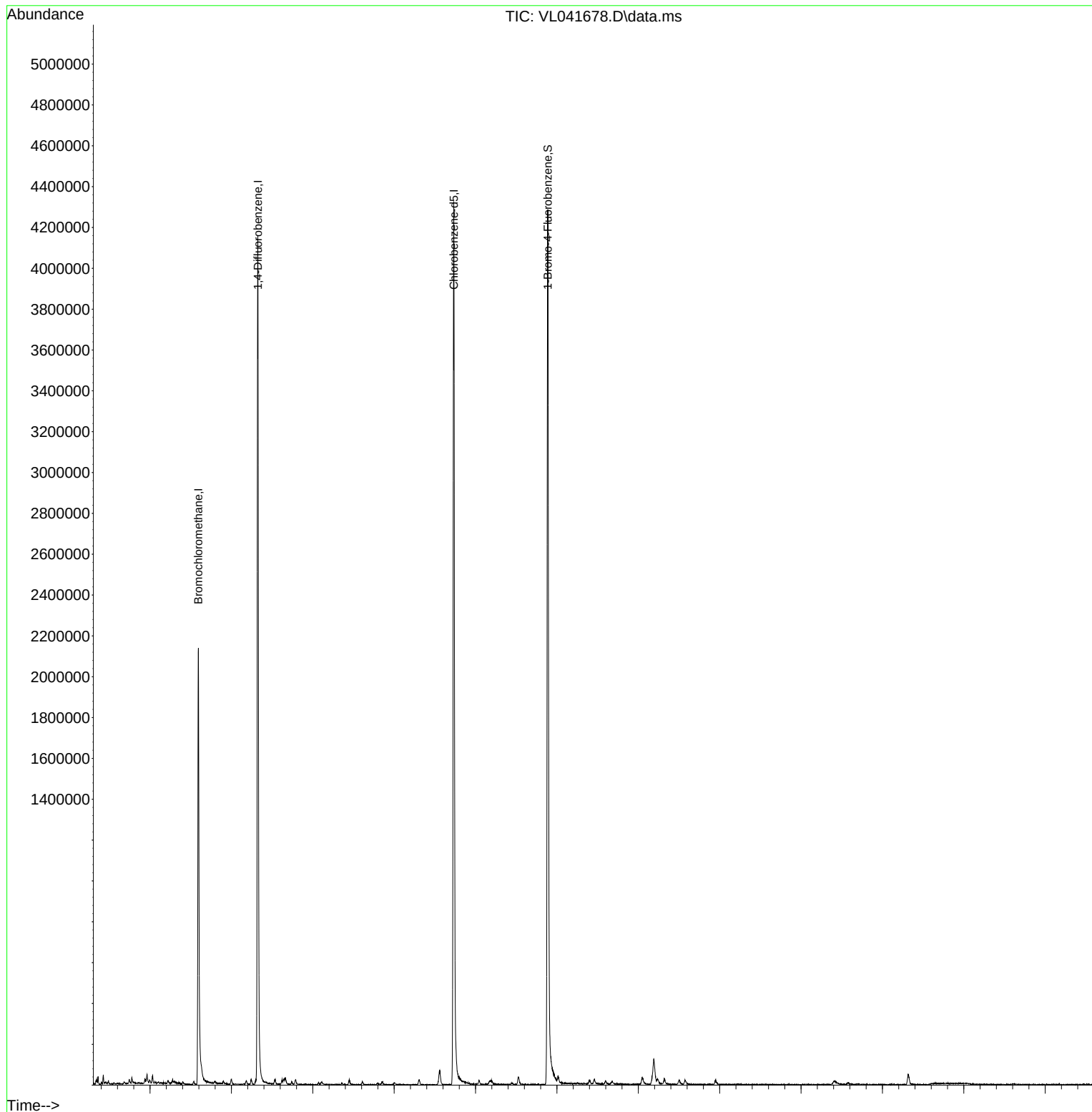
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
Data File : VL041678.D  
Acq On : 7 Nov 2024 12:52  
Operator : SY/MD  
Sample : VSTDIC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

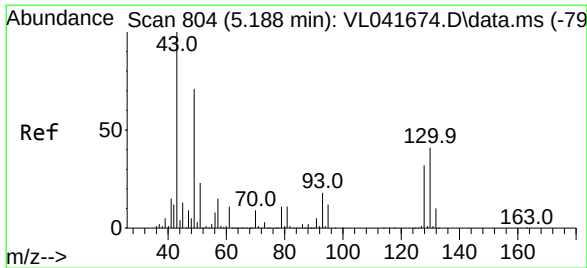
Quant Time: Nov 08 00:11:58 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Mahesh Dadoda 11/09/2024  
Supervised By : Semsettin Yesilyurt 11/09/2024

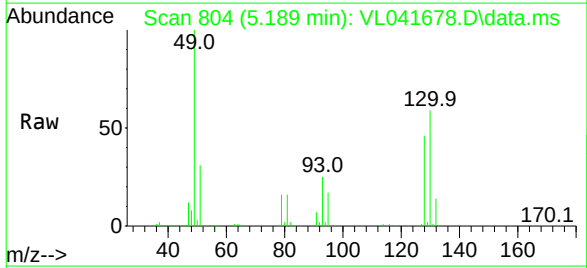






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.189 min Scan# 804  
Delta R.T. 0.001 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

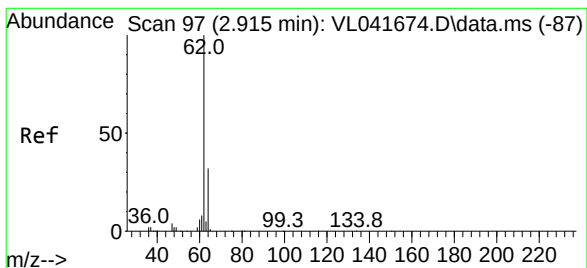
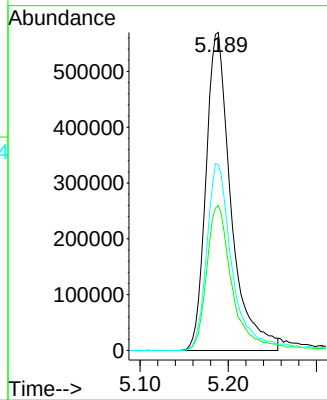
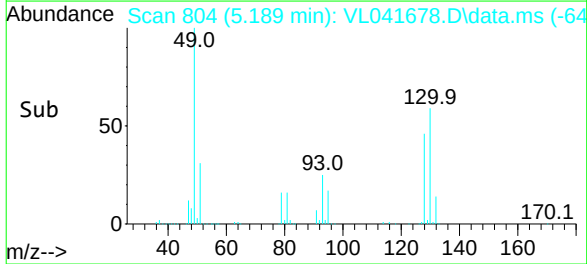
Instrument : MSVOA\_1  
ClientSampleId : VSTDIC0.1



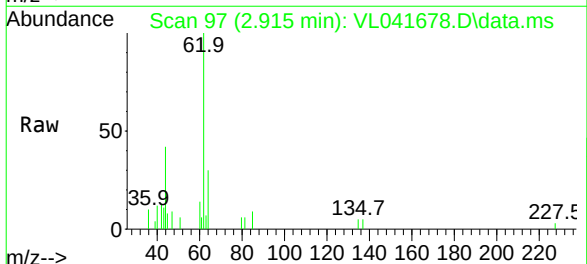
Tgt Ion: 49 Resp: 1123559  
Ion Ratio Lower Upper  
49 100  
128 48.3 23.8 71.2  
130 62.1 30.1 90.5

Manual Integrations  
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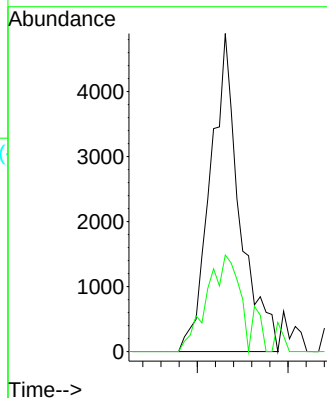
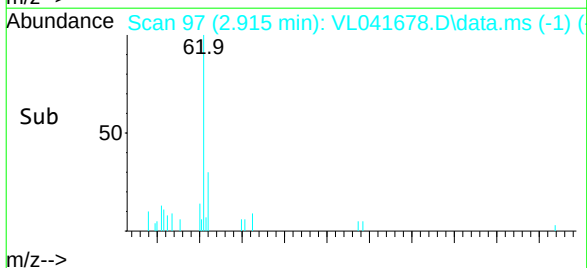
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

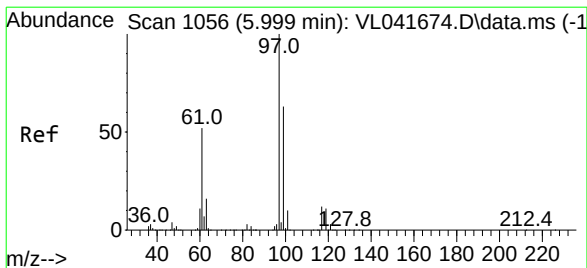


#5  
Vinyl Chloride  
Concen: 0.078 ppbv  
RT: 2.915 min Scan# 97  
Delta R.T. 0.000 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52



Tgt Ion: 62 Resp: 5503  
Ion Ratio Lower Upper  
62 100  
64 30.4 25.4 38.2





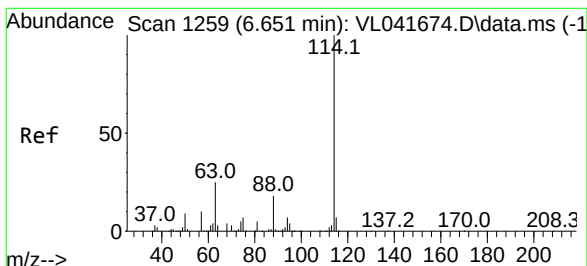
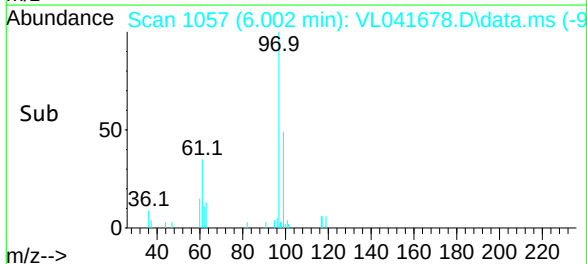
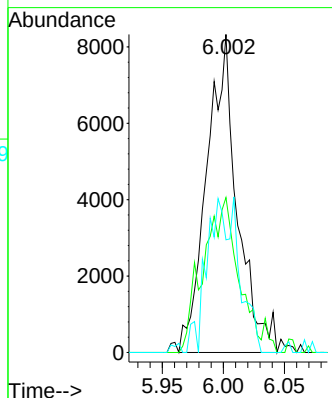
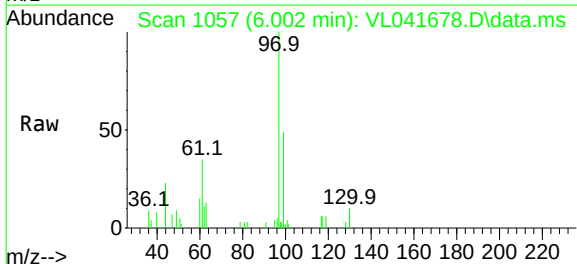
#32  
1,1,1-Trichloroethane  
Concen: 0.087 ppbv m  
RT: 6.002 min Scan# 1056  
Delta R.T. 0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 58.9  | 51.4  | 77.2  |
| 61      | 51.4  | 41.7  | 62.5  |

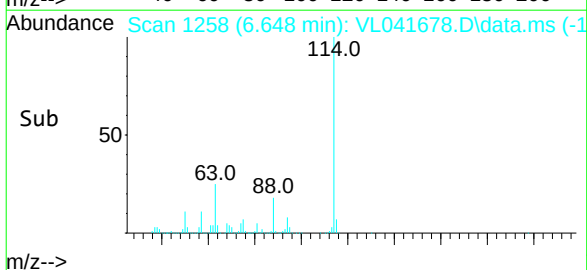
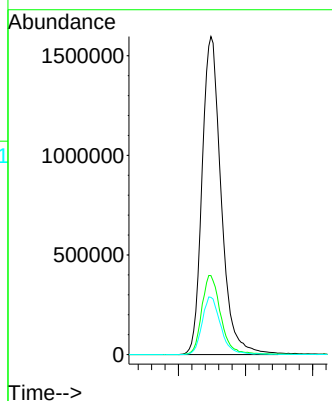
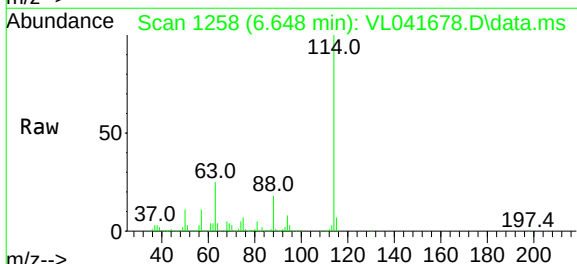
Manual Integrations  
APPROVED

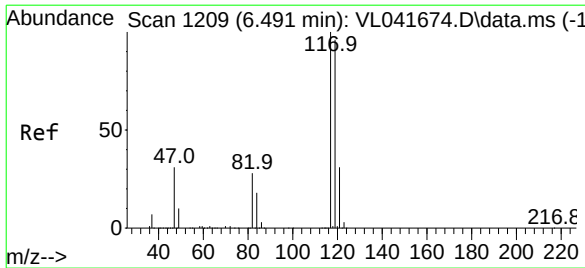
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.648 min Scan# 1258  
Delta R.T. -0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 25.0  | 20.3  | 30.5  |
| 88      | 17.8  | 14.2  | 21.4  |





#35

Carbon Tetrachloride

Concen: 0.080 ppbv m

RT: 6.488 min Scan# 1209

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:117 Resp: 13438

Ion Ratio Lower Upper

117 100

119 70.2 77.2 115.8#

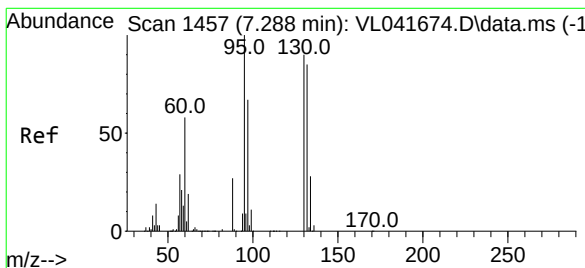
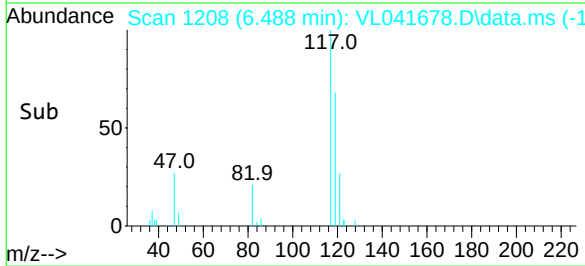
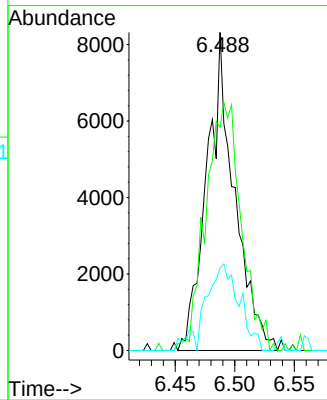
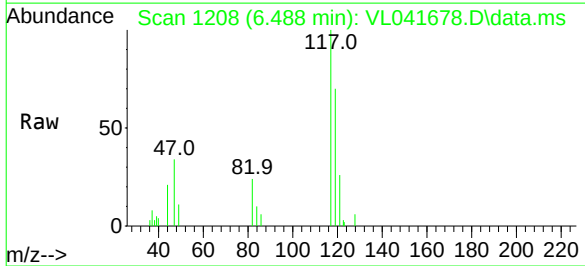
121 25.9 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#38

Trichloroethene

Concen: 0.081 ppbv m

RT: 7.291 min Scan# 1458

Delta R.T. 0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Tgt Ion:130 Resp: 7336

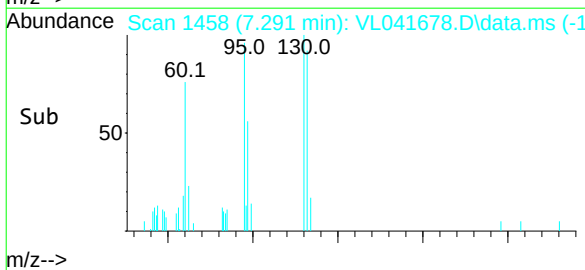
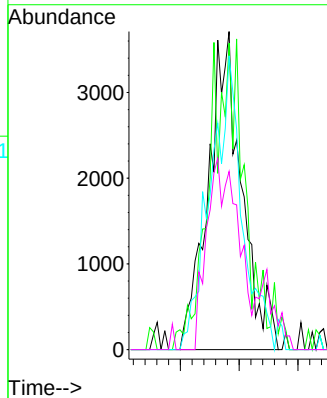
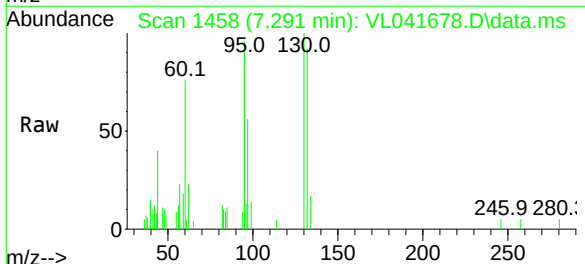
Ion Ratio Lower Upper

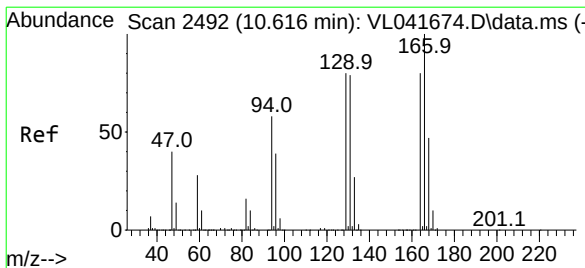
130 100

95 96.4 89.1 133.7

132 92.4 75.7 113.5

97 56.0 60.0 90.0#





#52

Tetrachloroethene

Concen: 0.076 ppbv m

RT: 10.613 min Scan# 2492

Delta R.T. -0.003 min

Lab File: VL041678.D

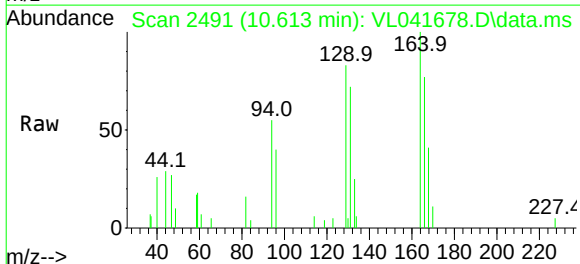
Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.1



Tgt Ion:164 Resp: 6067

Ion Ratio Lower Upper

164 100

166 76.8 100.2 150.4#

129 83.0 79.7 119.5

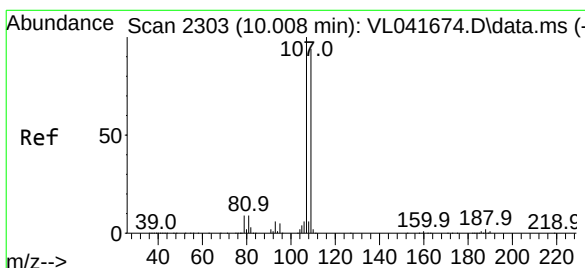
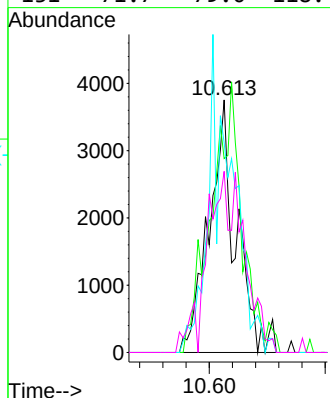
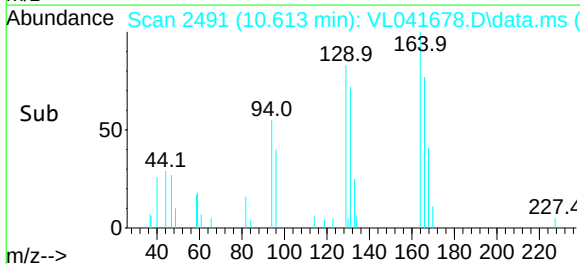
131 71.7 79.0 118.4#

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#54

1,2-Dibromoethane

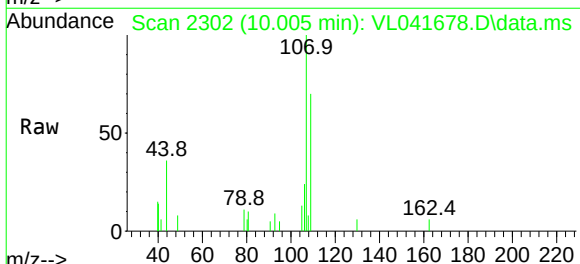
Concen: 0.064 ppbv m

RT: 10.005 min Scan# 2302

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

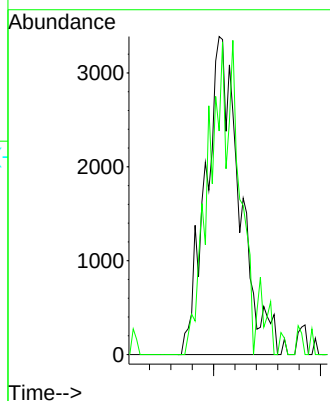
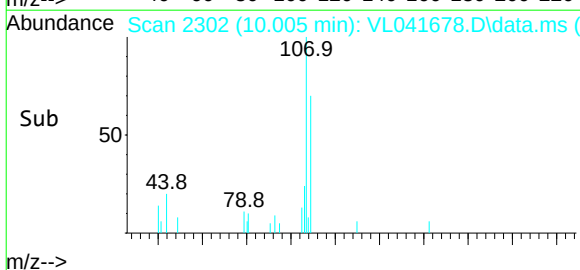


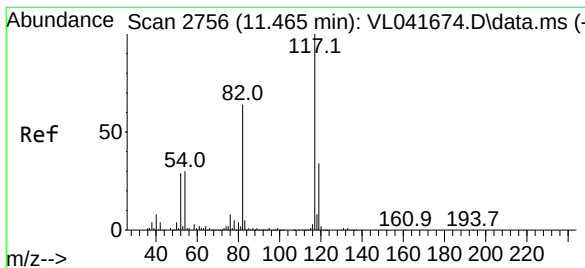
Tgt Ion:107 Resp: 7494

Ion Ratio Lower Upper

107 100

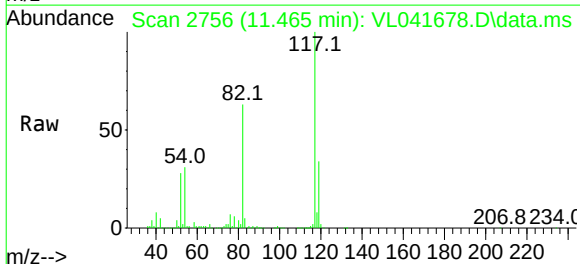
109 70.3 74.9 112.3#





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.465 min Scan# 2756  
Delta R.T. 0.000 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

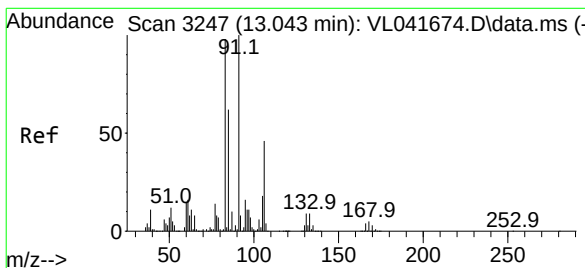
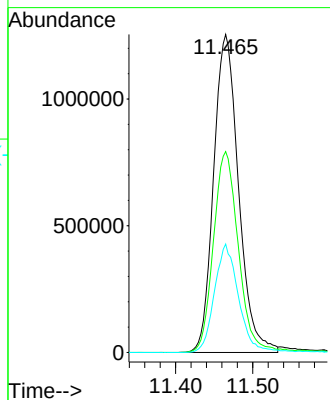
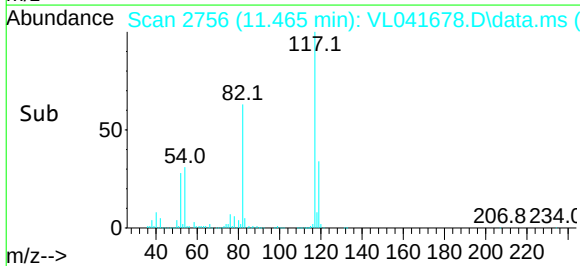
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



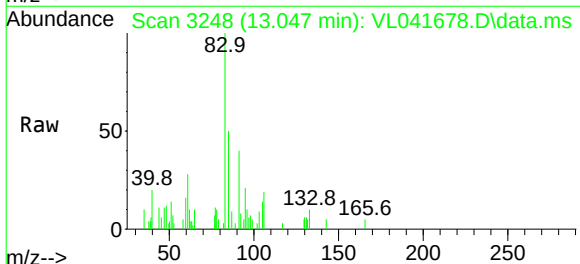
Tgt Ion: 117 Resp: 2815160  
Ion Ratio Lower Upper  
117 100  
82 64.5 49.8 74.8  
119 33.4 24.2 36.4

Manual Integrations  
APPROVED

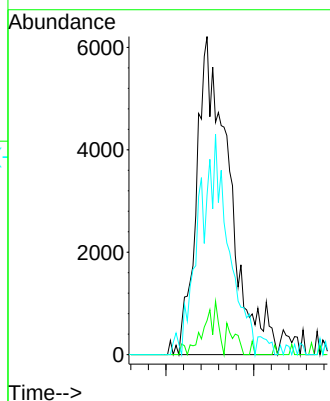
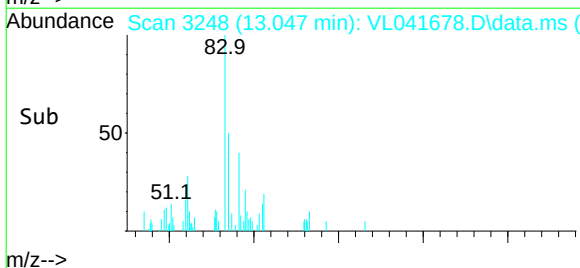
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

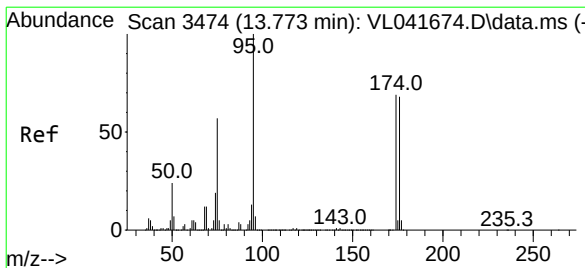


#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.082 ppbv m  
RT: 13.047 min Scan# 3248  
Delta R.T. 0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52



Tgt Ion: 83 Resp: 15978  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.8 14.3#  
85 0.0 32.6 98.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.145 ppbv

RT: 13.774 min Scan# 3474

Delta R.T. 0.000 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 95 Resp: 2112048

Ion Ratio Lower Upper

95 100

174 71.0 55.6 83.4

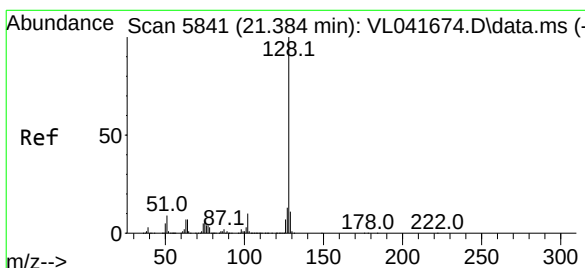
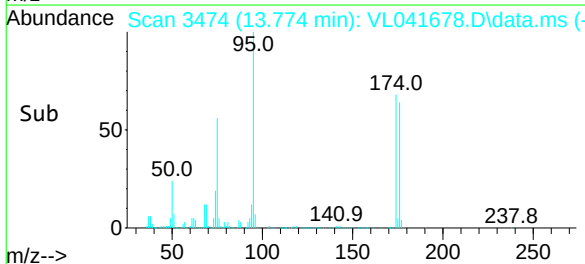
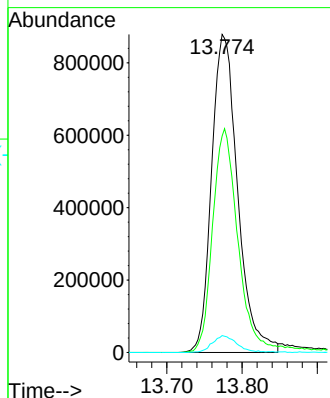
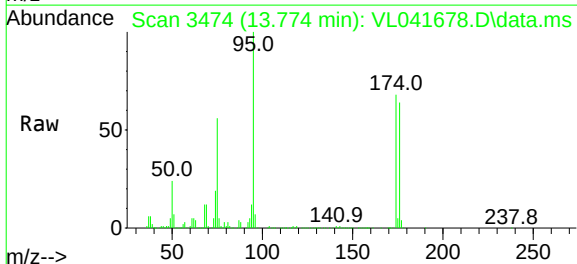
175 5.1 4.2 6.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#79

Naphthalene

Concen: 0.039 ppbv m

RT: 21.400 min Scan# 5846

Delta R.T. 0.016 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

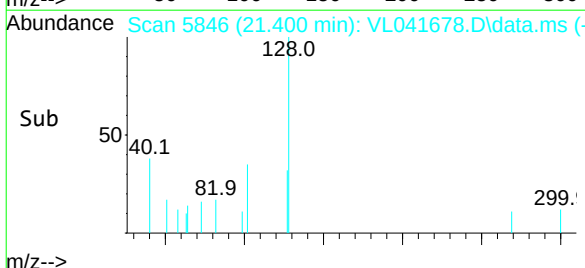
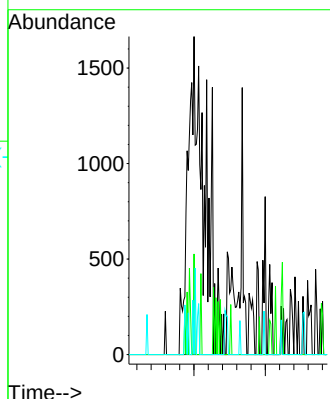
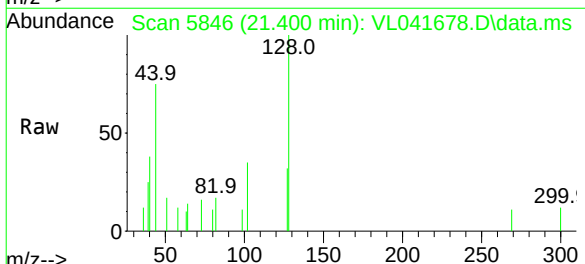
Tgt Ion:128 Resp: 7580

Ion Ratio Lower Upper

128 100

127 31.7 10.5 15.7#

129 0.0 8.7 13.1#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
Data File : VL041679.D  
Acq On : 7 Nov 2024 13:31  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Quant Time: Nov 08 00:12:39 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Bromochloromethane         | 5.192  | 49    | 1085923  | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene       | 6.652  | 114   | 3041887  | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5          | 11.465 | 117   | 2745730  | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene   | 13.777 | 95    | 2034307  | 10.018   | ppbv       | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | = 100.200% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          |            | Qvalue   |
| 5) Vinyl Chloride             | 2.922  | 62    | 2094m    | 0.031    | ppbv       |          |
| 63) 1,1,2,2-Tetrachloroethane | 13.047 | 83    | 6025m    | 0.032    | ppbv       |          |
| -----                         |        |       |          |          |            |          |

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

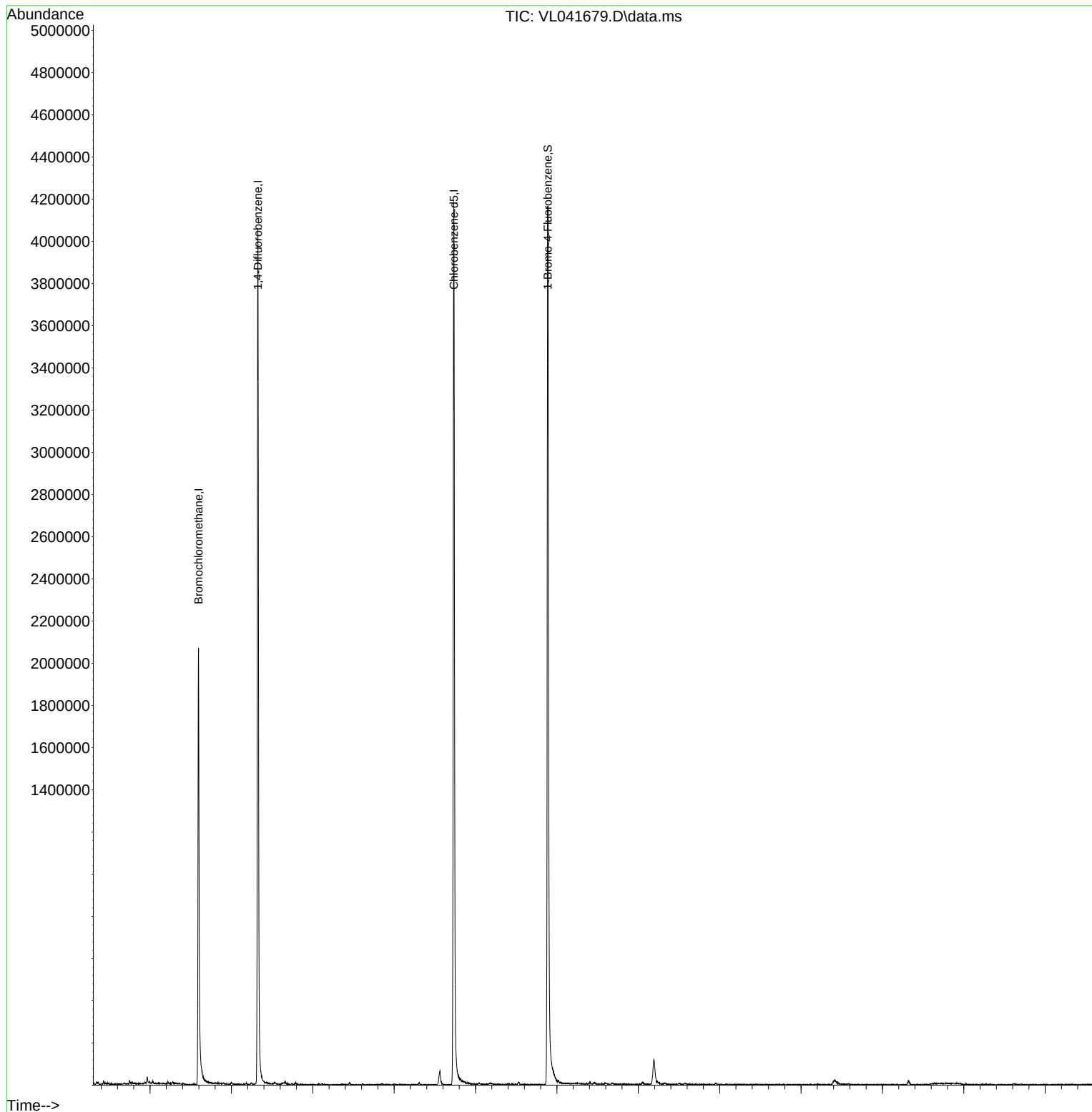
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
Data File : VL041679.D  
Acq On : 7 Nov 2024 13:31  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

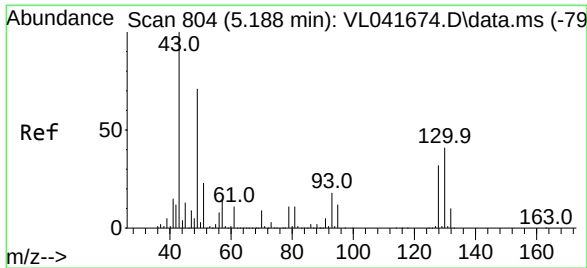
Quant Time: Nov 08 00:12:39 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Mahesh Dadoda 11/09/2024  
Supervised By : Semsettin Yesilyurt 11/09/2024

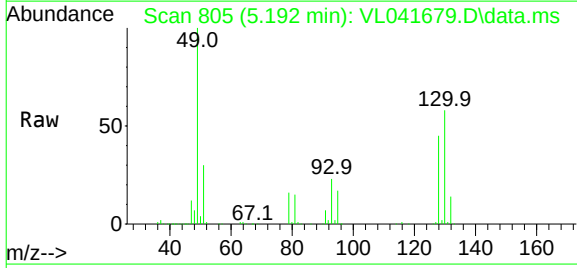






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.192 min Scan# 80  
Delta R.T. 0.004 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

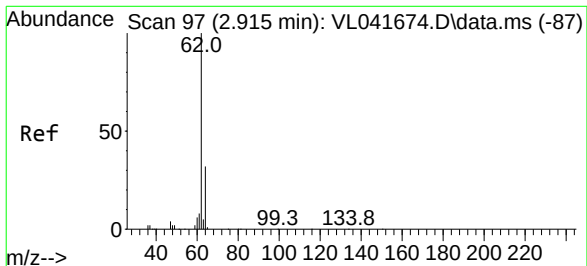
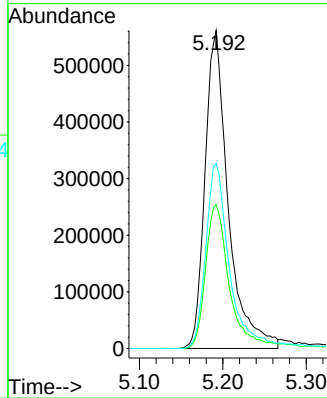
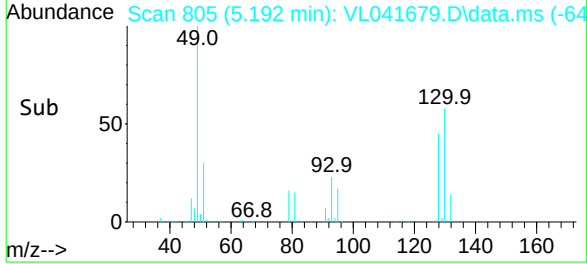
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03



Tgt Ion: 49 Resp: 1085923  
Ion Ratio Lower Upper  
49 100  
128 48.0 23.8 71.2  
130 61.1 30.1 90.5

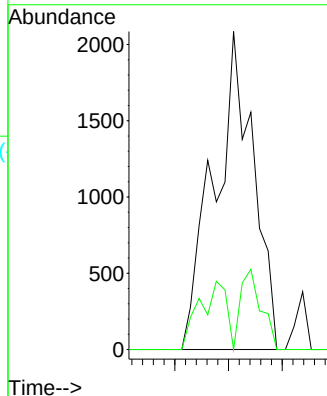
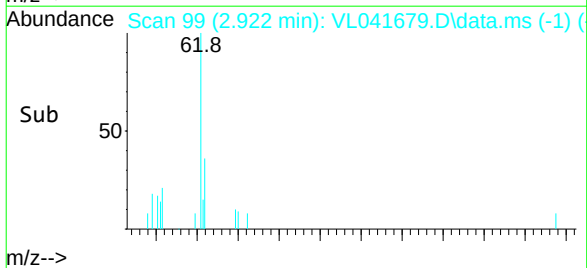
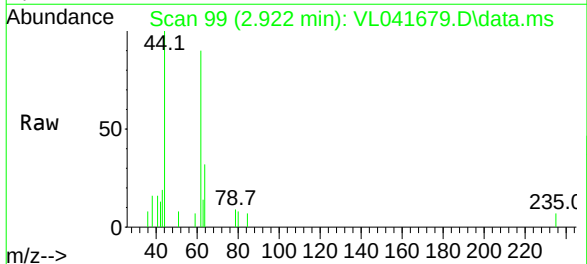
Manual Integrations  
APPROVED

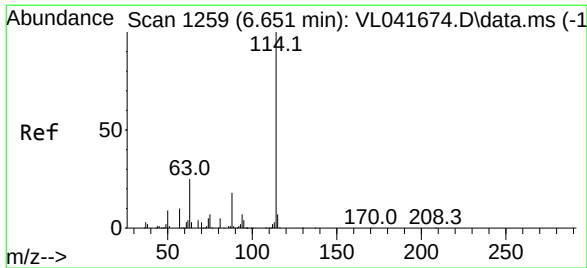
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#5  
Vinyl Chloride  
Concen: 0.031 ppbv m  
RT: 2.922 min Scan# 99  
Delta R.T. 0.007 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

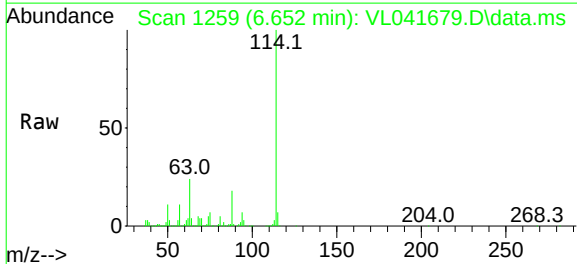
Tgt Ion: 62 Resp: 2094  
Ion Ratio Lower Upper  
62 100  
64 0.0 25.4 38.2#





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.652 min Scan# 1259  
Delta R.T. 0.000 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

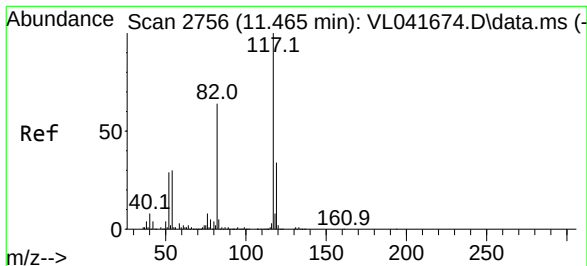
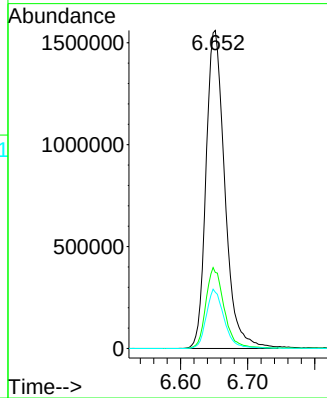
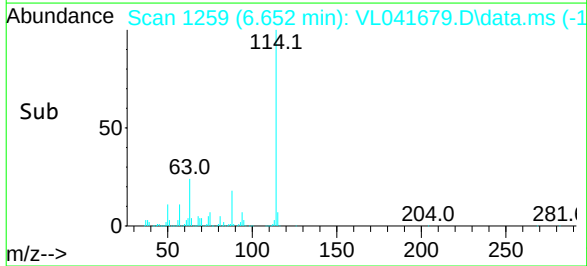
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03



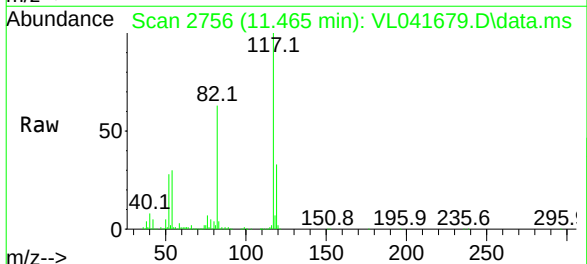
Tgt Ion:114 Resp: 3041887  
Ion Ratio Lower Upper  
114 100  
63 24.9 20.3 30.5  
88 17.8 14.2 21.4

Manual Integrations  
APPROVED

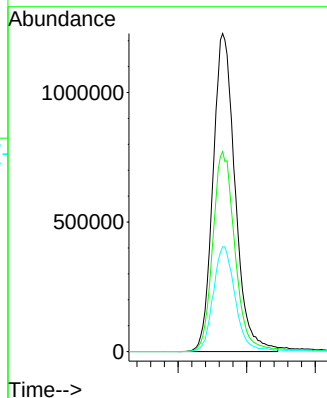
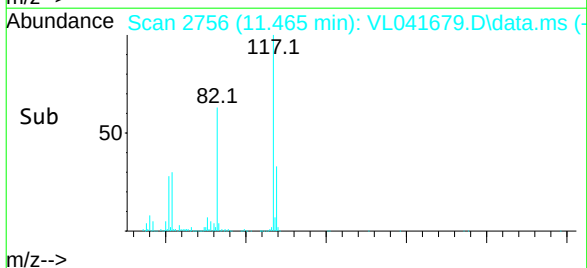
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

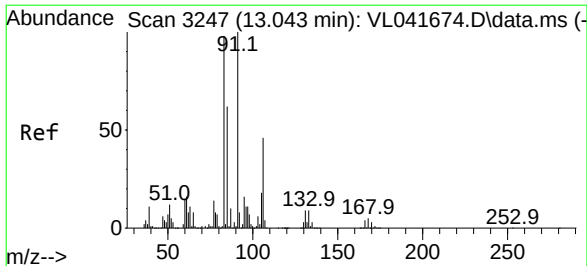


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.465 min Scan# 2756  
Delta R.T. 0.000 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31



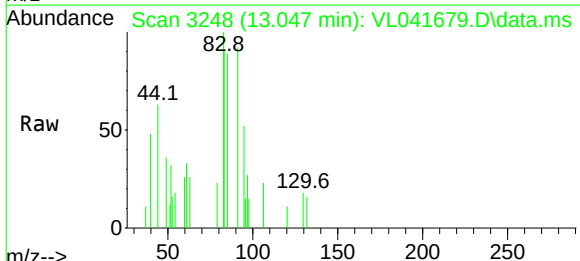
Tgt Ion:117 Resp: 2745730  
Ion Ratio Lower Upper  
117 100  
82 64.3 49.8 74.8  
119 33.4 24.2 36.4





#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.032 ppbv m  
RT: 13.047 min Scan# 3247  
Delta R.T. 0.003 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

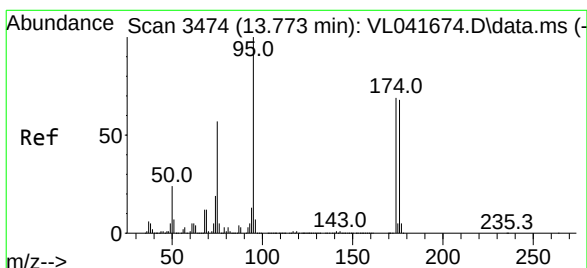
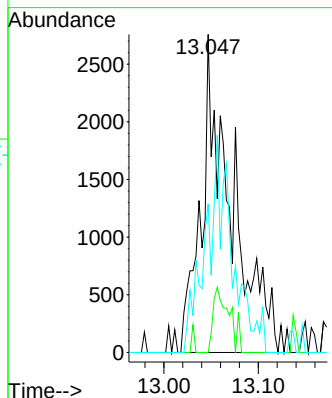
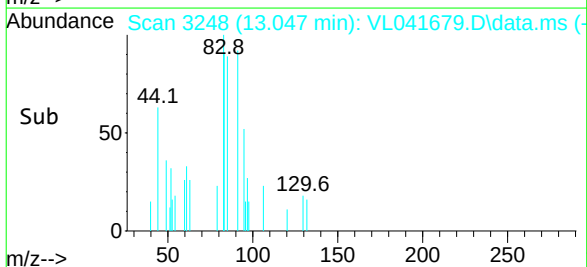
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03



Tgt Ion: 83 Resp: 6025  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.8 14.3#  
85 0.0 32.6 98.0#

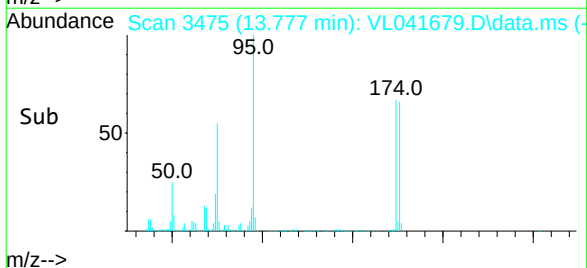
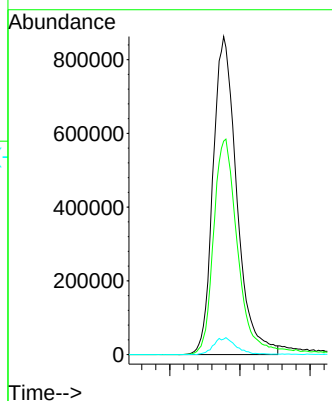
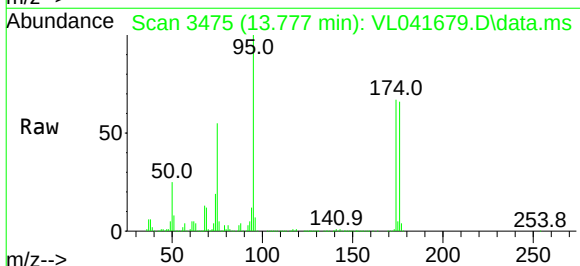
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.018 ppbv  
RT: 13.777 min Scan# 3475  
Delta R.T. 0.003 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion: 95 Resp: 2034307  
Ion Ratio Lower Upper  
95 100  
174 70.8 55.6 83.4  
175 5.2 4.2 6.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041680.D  
 Acq On : 7 Nov 2024 14:12  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Quant Time: Nov 08 00:13:20 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Mahesh Dadoda 11/09/2024  
 Supervised By : Semsettin Yesilyurt 11/09/2024

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.192  | 49   | 1139788  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.655  | 114  | 3182548  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.468 | 117  | 3271350  | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 13.780 | 95    | 2357958  | 9.746    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.500% |

#### Target Compounds

|                               |       |     |         |        |      | Qvalue |
|-------------------------------|-------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 2.729 | 85  | 3118931 | 15.140 | ppbv | 99     |
| 3) Chlorodifluoromethane      | 2.674 | 51  | 2003229 | 13.489 | ppbv | 99     |
| 4) Chloromethane              | 2.813 | 50  | 1085629 | 13.801 | ppbv | 95     |
| 5) Vinyl Chloride             | 2.922 | 62  | 1061943 | 14.900 | ppbv | 99     |
| 6) Bromomethane               | 3.121 | 94  | 543873  | 14.489 | ppbv | 99     |
| 7) Chloroethane               | 3.198 | 64  | 374124  | 14.487 | ppbv | 99     |
| 8) Dichlorotetrafluoroethane  | 2.858 | 85  | 2471590 | 13.440 | ppbv | 100    |
| 9) Propene                    | 2.694 | 41  | 906594  | 14.010 | ppbv | 99     |
| 10) Heptane                   | 7.581 | 43  | 2284371 | 15.754 | ppbv | 98     |
| 11) Trichlorofluoromethane    | 3.562 | 101 | 2504580 | 13.958 | ppbv | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 4.067 | 101 | 1834846 | 14.068 | ppbv | 100    |
| 13) Ethanol                   | 3.250 | 45  | 50975m  | 12.664 | ppbv |        |
| 14) Bromoethene               | 3.366 | 108 | 755053  | 14.401 | ppbv | 98     |
| 15) Acetone                   | 3.469 | 43  | 1886393 | 13.448 | ppbv | 99     |
| 16) 1,3-Butadiene             | 2.986 | 39  | 1081107 | 15.371 | ppbv | 99     |
| 17) tert-Butyl alcohol        | 3.880 | 59  | 1663672 | 13.516 | ppbv | 100    |
| 18) 1,1-Dichloroethene        | 3.880 | 96  | 834933  | 14.596 | ppbv | 93     |
| 19) Isopropyl Alcohol         | 3.575 | 45  | 910280  | 13.406 | ppbv | 100    |
| 20) Methylene Chloride        | 3.932 | 84  | 687212  | 13.313 | ppbv | 96     |
| 21) Allyl Chloride            | 3.996 | 41  | 1317025 | 15.194 | ppbv | 99     |
| 22) trans-1,2-Dichloroethene  | 4.446 | 96  | 842095  | 14.755 | ppbv | 97     |
| 23) Vinyl Acetate             | 4.626 | 43  | 926796  | 14.047 | ppbv | 98     |
| 24) 1,1-Dichloroethane        | 4.565 | 63  | 1790354 | 14.103 | ppbv | 99     |
| 25) Ethyl Acetate             | 5.205 | 43  | 4234322 | 14.583 | ppbv | 100    |
| 26) Hexane                    | 5.211 | 57  | 1693823 | 15.184 | ppbv | 96     |
| 27) Carbon Disulfide          | 4.124 | 76  | 2071779 | 16.531 | ppbv | 99     |
| 28) Methyl tert-Butyl Ether   | 4.587 | 73  | 988726  | 13.764 | ppbv | 99     |
| 29) Chloroform                | 5.276 | 83  | 2615593 | 14.204 | ppbv | 98     |
| 30) Cyclohexane               | 6.600 | 84  | 1445757 | 16.132 | ppbv | 99     |
| 31) cis-1,2-Dichloroethene    | 5.079 | 61  | 1655410 | 15.426 | ppbv | 98     |
| 32) 1,1,1-Trichloroethane     | 6.005 | 97  | 2576420 | 15.262 | ppbv | 99     |
| 34) 2-Butanone                | 4.787 | 43  | 2382292 | 15.033 | ppbv | 100    |
| 35) Carbon Tetrachloride      | 6.497 | 117 | 2728914 | 16.220 | ppbv | 98     |
| 36) Benzene                   | 6.372 | 78  | 3579956 | 15.182 | ppbv | 100    |
| 37) 1,2-Dichloroethane        | 5.809 | 62  | 1992504 | 14.978 | ppbv | 99     |
| 38) Trichloroethene           | 7.295 | 130 | 1492186 | 16.410 | ppbv | 98     |
| 39) 1,2-Dichloropropane       | 7.076 | 63  | 1405373 | 15.081 | ppbv | 99     |
| 40) 1,4-Dioxane               | 7.285 | 88  | 545340  | 16.521 | ppbv | 93     |
| 41) Tetrahydrofuran           | 5.555 | 42  | 1449986 | 16.040 | ppbv | 99     |
| 42) Bromodichloromethane      | 7.253 | 83  | 2869440 | 15.522 | ppbv | 99     |
| 43) Methyl Methacrylate       | 7.475 | 69  | 1439612 | 17.388 | ppbv | 99     |
| 44) 2,2,4-Trimethylpentane    | 7.327 | 57  | 5922866 | 14.828 | ppbv | 100    |
| 45) t-1,3-Dichloropropene     | 8.713 | 75  | 1469151 | 19.850 | ppbv | 97     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041680.D  
 Acq On : 7 Nov 2024 14:12  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Quant Time: Nov 08 00:13:20 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

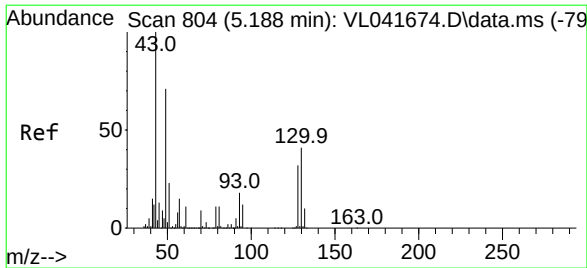
### Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 11/09/2024  
 Supervised By : Semsettin Yesilyurt 11/09/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.144  | 75   | 1964082  | 18.259 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 8.902  | 97   | 1496508  | 14.895 | ppbv   | 99       |
| 48) Dibromochloromethane      | 9.713  | 129  | 2521147  | 16.444 | ppbv   | 100      |
| 49) Bromoform                 | 12.413 | 173  | 2265132  | 17.318 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.182  | 43   | 3873850  | 15.919 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.552  | 43   | 3096656  | 17.512 | ppbv # | 99       |
| 52) Tetrachloroethene         | 10.616 | 164  | 1362327  | 16.900 | ppbv   | 98       |
| 53) Toluene                   | 9.224  | 91   | 4192947  | 16.909 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.012 | 107  | 2047188  | 17.451 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.510 | 131  | 1851127  | 13.588 | ppbv   | 98       |
| 57) Chlorobenzene             | 11.529 | 112  | 3280487  | 13.453 | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.092 | 91   | 5635176  | 15.550 | ppbv   | 98       |
| 59) m/p-Xylene                | 12.372 | 91   | 9532832m | 29.406 | ppbv   |          |
| 60) o-Xylene                  | 13.063 | 91   | 4598783  | 14.859 | ppbv   | 100      |
| 61) Styrene                   | 12.902 | 104  | 2329096  | 18.233 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.031 | 105  | 6769619  | 14.169 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.050 | 83   | 3217179  | 14.277 | ppbv   | 100      |
| 64) n-propylbenzene           | 14.918 | 120  | 1875181  | 15.010 | ppbv   | 95       |
| 65) tert-Butylbenzene         | 16.095 | 119  | 6075642  | 14.149 | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.333 | 91   | 602019   | 19.466 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 16.638 | 105  | 8477471  | 14.008 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 16.999 | 119  | 7127872  | 14.562 | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.889 | 91   | 7337569  | 14.625 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 14.806 | 91   | 5195848  | 15.038 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.198 | 105  | 5625512  | 15.652 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.355 | 105  | 4772611  | 15.144 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.114 | 105  | 5199497  | 14.183 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 16.336 | 146  | 3296952  | 14.559 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 16.478 | 146  | 3204404  | 14.402 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.150 | 146  | 3223835  | 14.336 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 22.638 | 225  | 2162938  | 12.158 | ppbv   | 99       |
| 79) Naphthalene               | 21.391 | 128  | 4363777  | 19.355 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.374 | 142  | 967466m  | 23.129 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.146 | 180  | 2238509  | 15.962 | ppbv   | 100      |

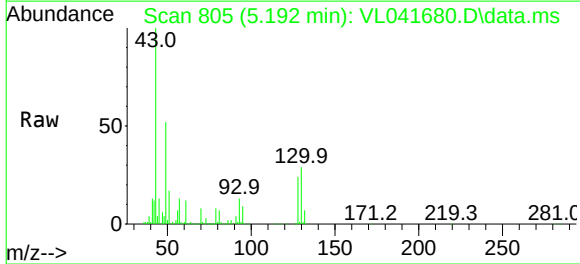
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.192 min Scan# 804  
Delta R.T. 0.004 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

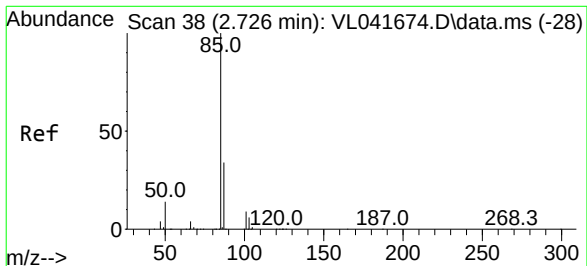
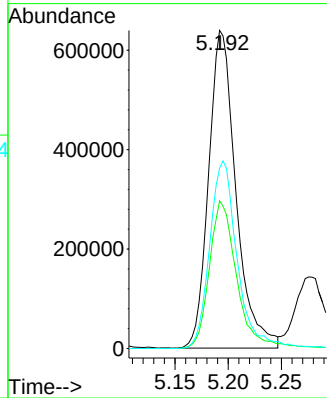
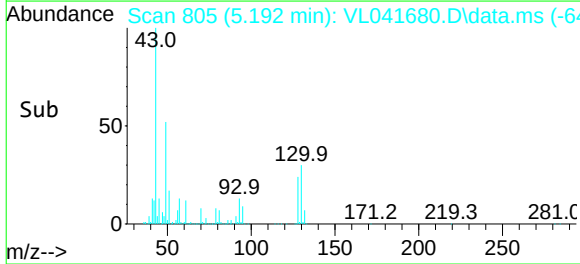
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion: 49 Resp: 1139788  
Ion Ratio Lower Upper  
49 100  
128 47.2 23.8 71.2  
130 60.9 30.1 90.5

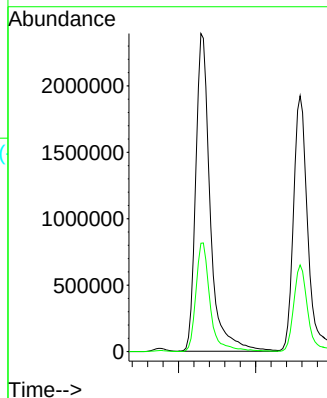
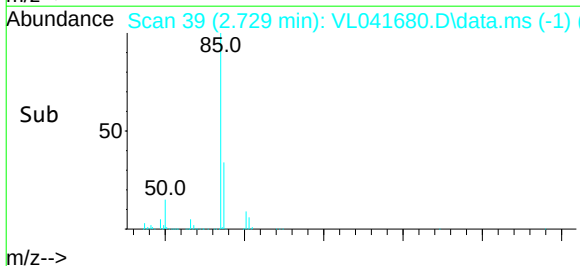
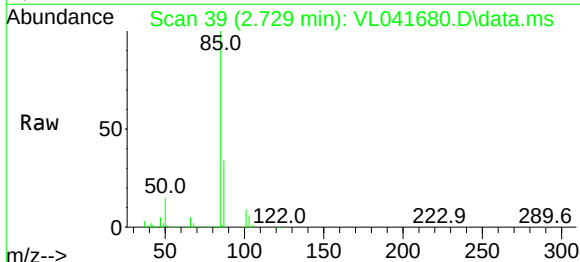
Manual Integrations  
APPROVED

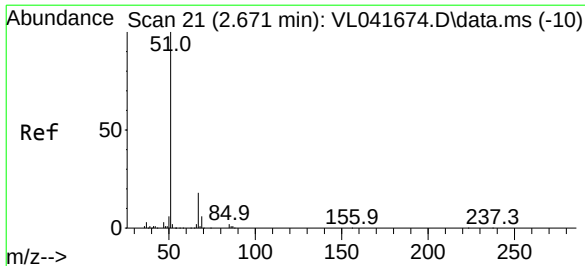
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#2  
Dichlorodifluoromethane  
Concen: 15.140 ppbv  
RT: 2.729 min Scan# 39  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 85 Resp: 3118931  
Ion Ratio Lower Upper  
85 100  
87 34.1 26.8 40.2





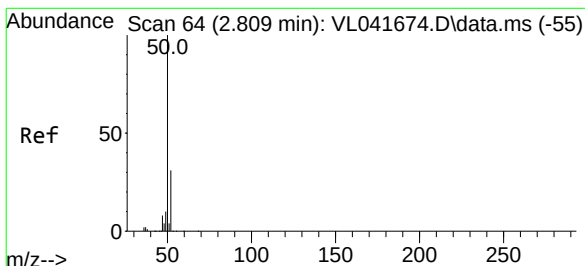
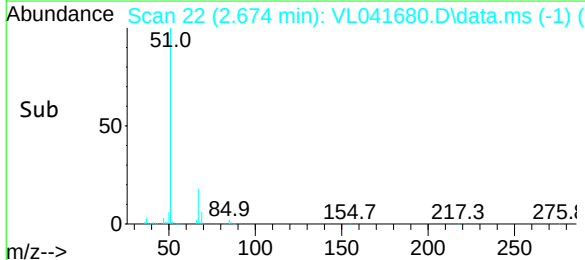
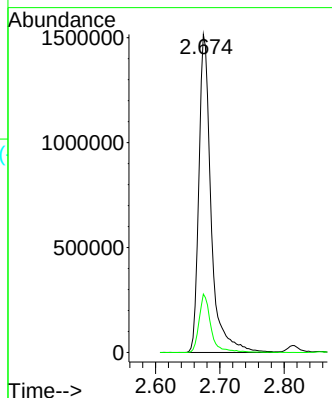
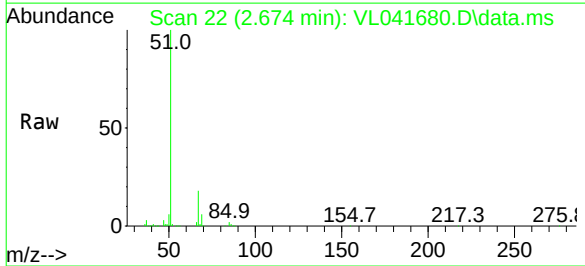
#3  
Chlorodifluoromethane  
Concen: 13.489 ppbv  
RT: 2.674 min Scan# 22  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 51 Resp: 2003229  
Ion Ratio Lower Upper  
51 100  
67 18.0 13.9 20.9

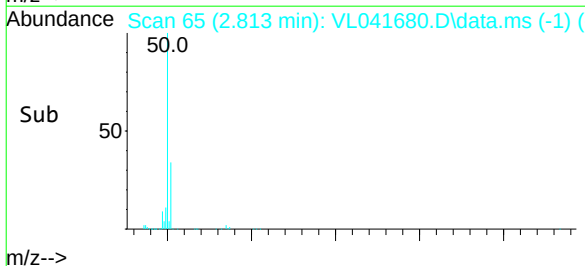
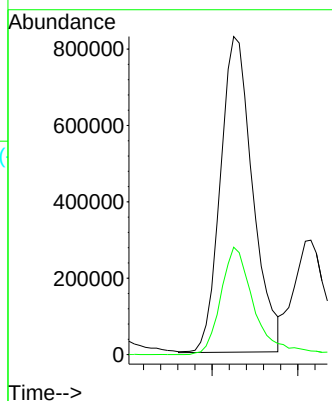
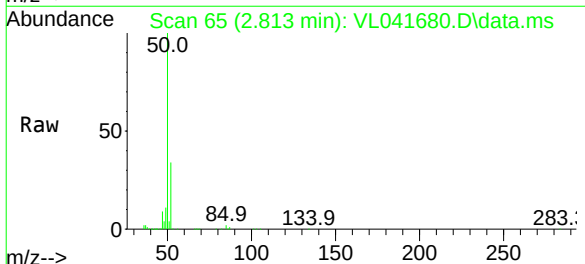
Manual Integrations  
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Supervised By :Semsettin Yesilyurt 11/09/2024

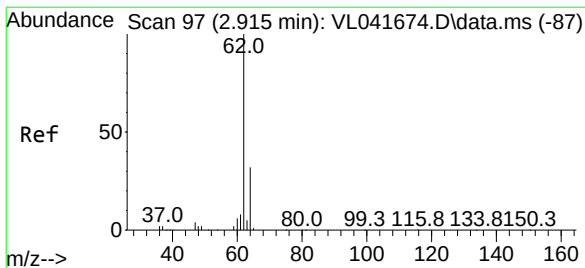


#4  
Chloromethane  
Concen: 13.801 ppbv  
RT: 2.813 min Scan# 65  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 50 Resp: 1085629  
Ion Ratio Lower Upper  
50 100  
52 34.1 24.9 37.3

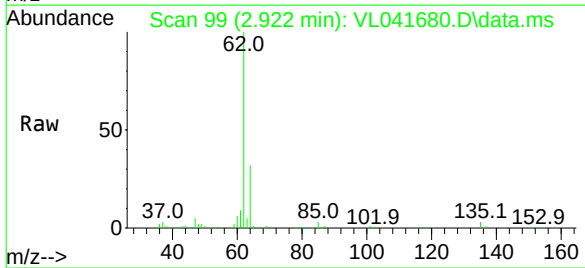






#5  
Vinyl Chloride  
Concen: 14.900 ppbv  
RT: 2.922 min Scan# 99  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

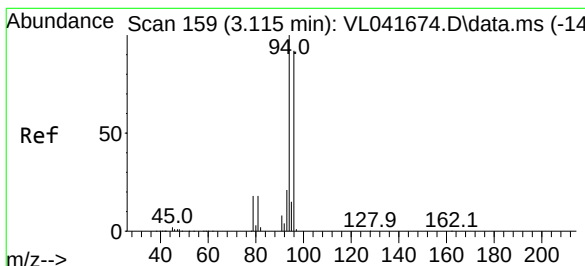
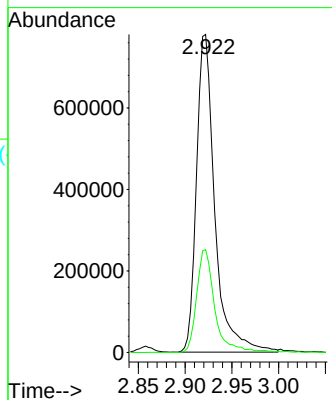
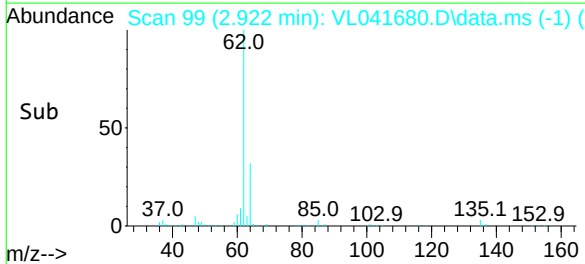
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



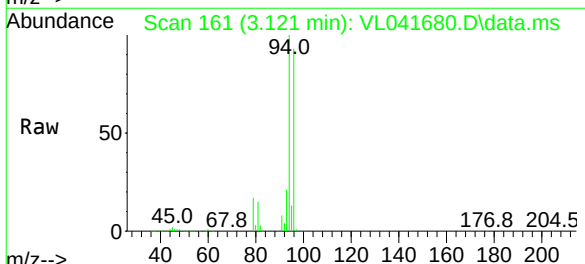
Tgt Ion: 62 Resp: 1061943  
Ion Ratio Lower Upper  
62 100  
64 32.4 25.4 38.2

Manual Integrations  
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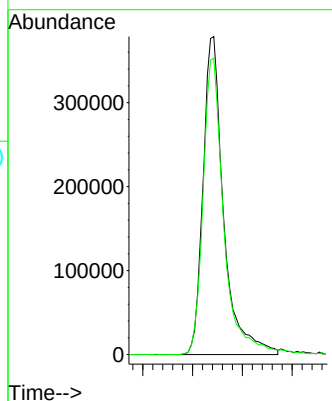
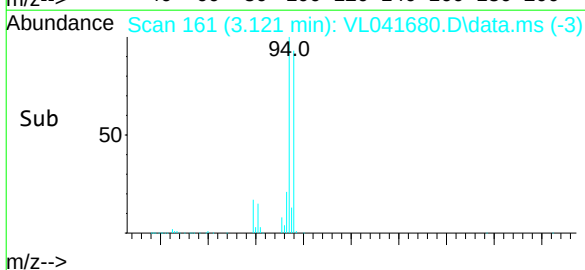
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

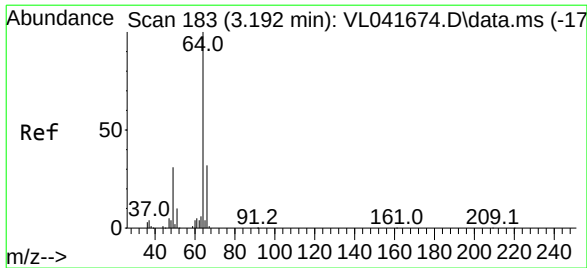


#6  
Bromomethane  
Concen: 14.489 ppbv  
RT: 3.121 min Scan# 161  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12



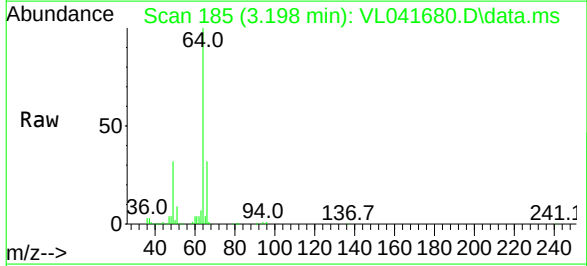
Tgt Ion: 94 Resp: 543873  
Ion Ratio Lower Upper  
94 100  
96 93.2 73.4 110.2





#7  
Chloroethane  
Concen: 14.487 ppbv  
RT: 3.198 min Scan# 18  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

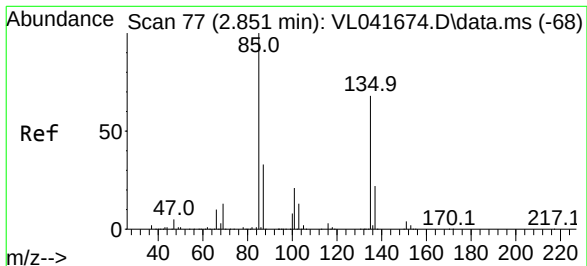
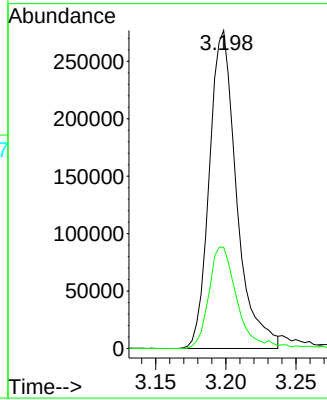
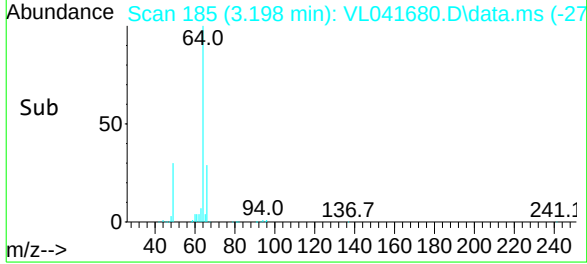
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



Tgt Ion: 64 Resp: 374124  
Ion Ratio Lower Upper  
64 100  
66 31.8 25.9 38.9

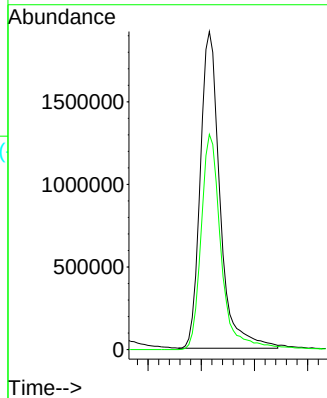
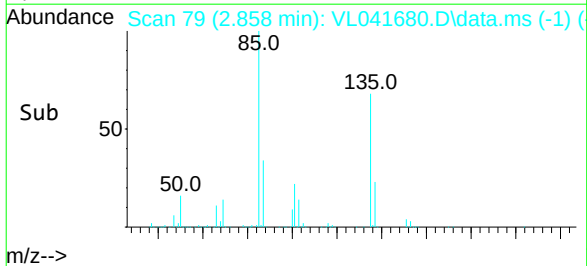
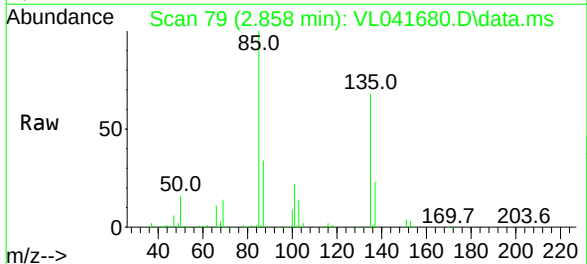
Manual Integrations  
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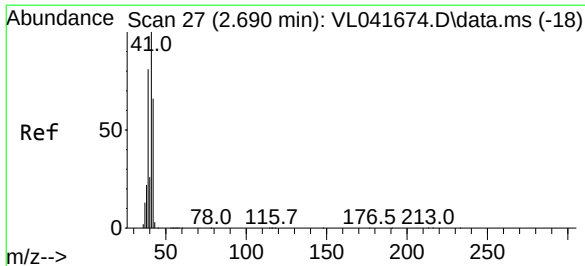
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#8  
Dichlorotetrafluoroethane  
Concen: 13.440 ppbv  
RT: 2.858 min Scan# 79  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 85 Resp: 2471590  
Ion Ratio Lower Upper  
85 100  
135 69.7 55.5 83.3





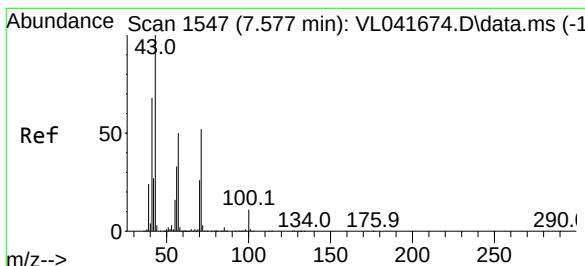
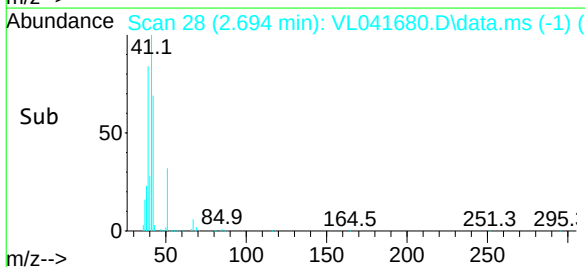
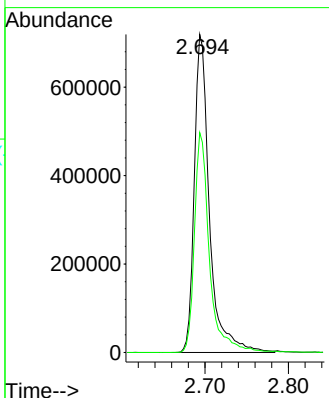
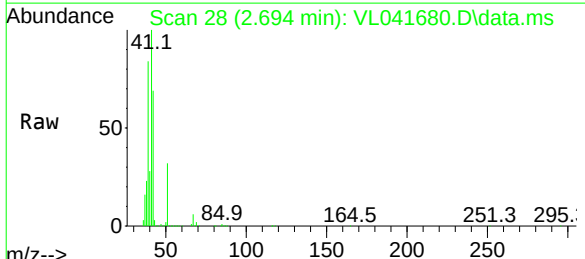
#9  
Propene  
Concen: 14.010 ppbv  
RT: 2.694 min Scan# 28  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 41 Resp: 906594  
Ion Ratio Lower Upper  
41 100  
42 69.2 55.0 82.4

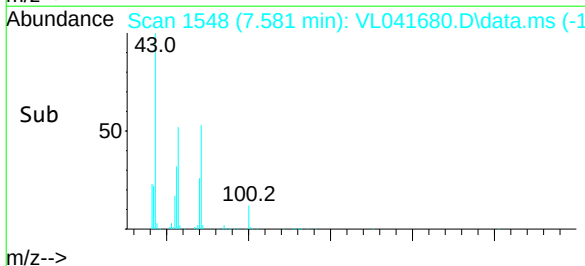
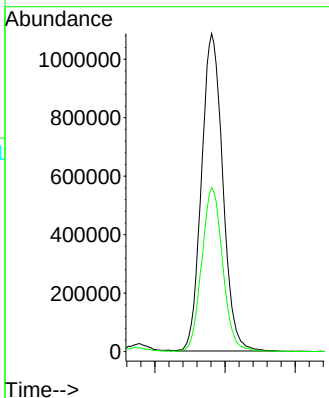
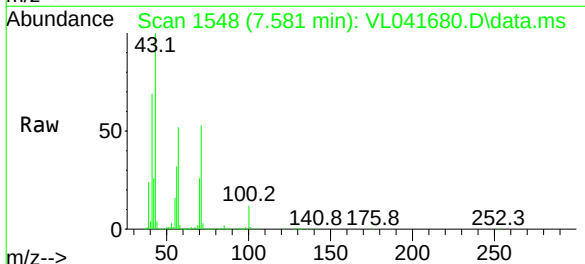
Manual Integrations  
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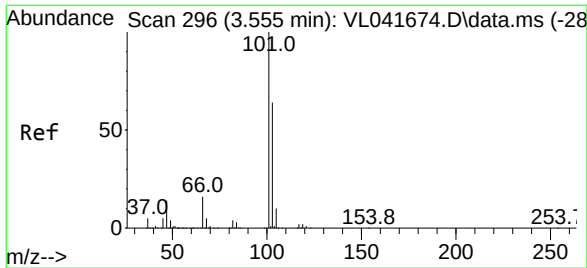
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#10  
Heptane  
Concen: 15.754 ppbv  
RT: 7.581 min Scan# 1548  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 43 Resp: 2284371  
Ion Ratio Lower Upper  
43 100  
57 51.0 40.0 60.0





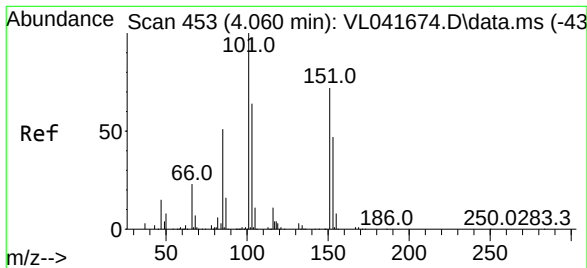
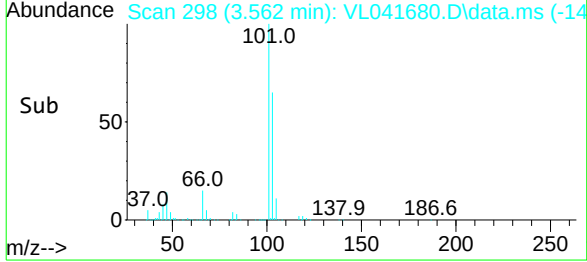
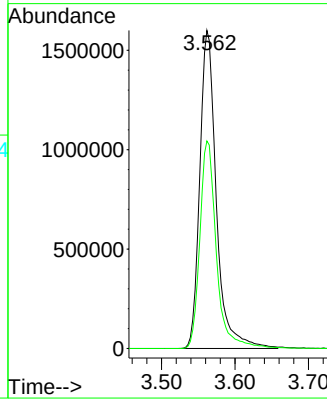
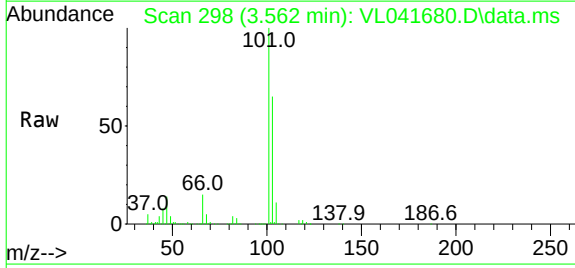
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 Trichlorofluoromethane  
 Concen: 13.958 ppbv  
 RT: 3.562 min Scan# 296  
 Delta R.T. 0.007 min  
 Lab File: VL041680.D  
 Acq: 7 Nov 2024 14:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Tgt Ion:101 Resp: 2504586  
 Ion Ratio Lower Upper  
 101 100  
 103 65.2 51.0 76.6

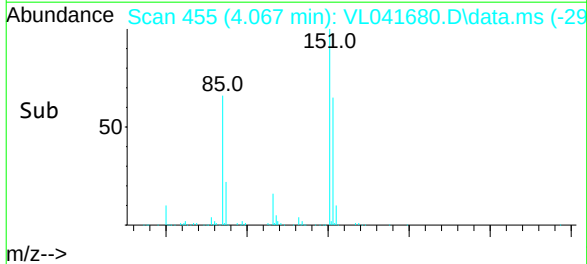
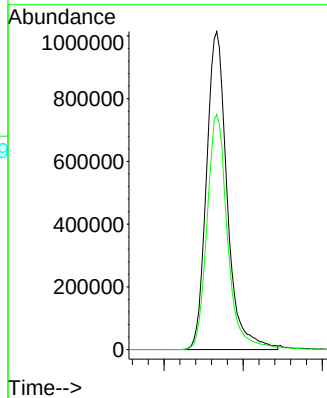
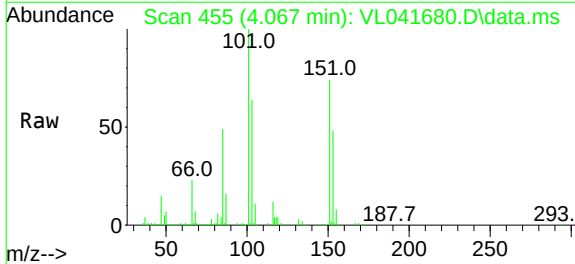
Manual Integrations  
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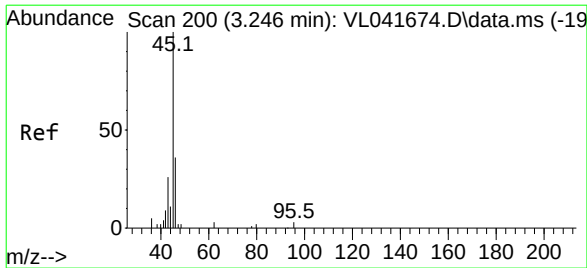
Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 14.068 ppbv  
 RT: 4.067 min Scan# 455  
 Delta R.T. 0.007 min  
 Lab File: VL041680.D  
 Acq: 7 Nov 2024 14:12

Tgt Ion:101 Resp: 1834846  
 Ion Ratio Lower Upper  
 101 100  
 151 73.7 59.1 88.7





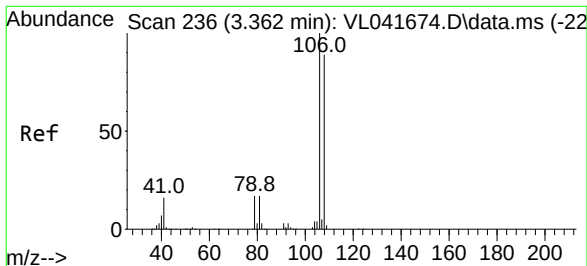
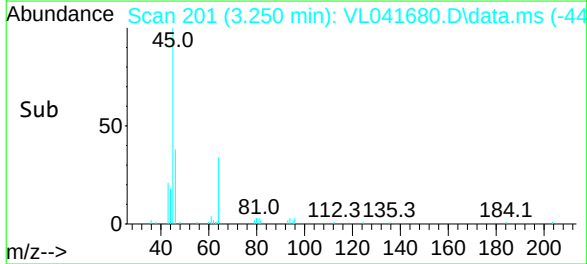
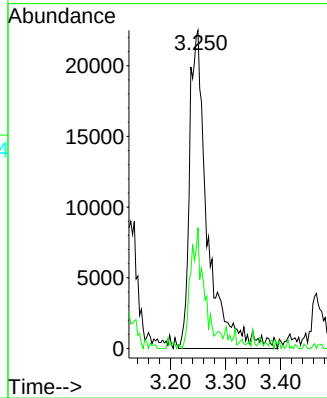
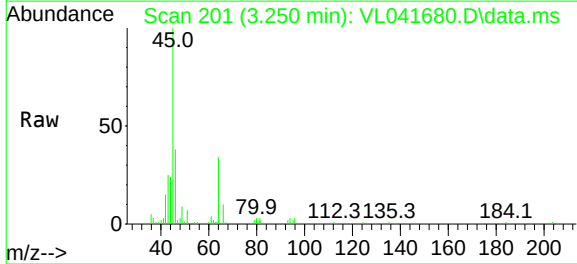
#13  
Ethanol  
Concen: 12.664 ppbv m  
RT: 3.250 min Scan# 20  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 45 Resp: 50975  
Ion Ratio Lower Upper  
45 100  
46 30.2 13.8 55.2

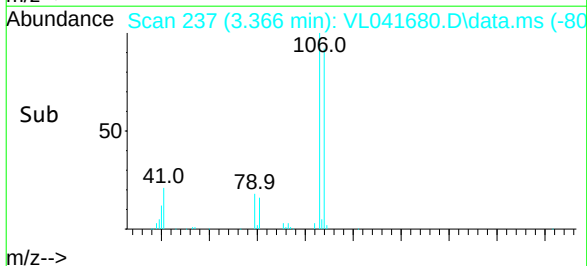
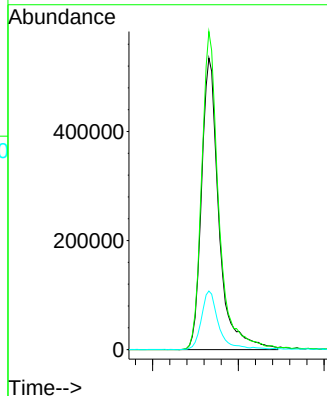
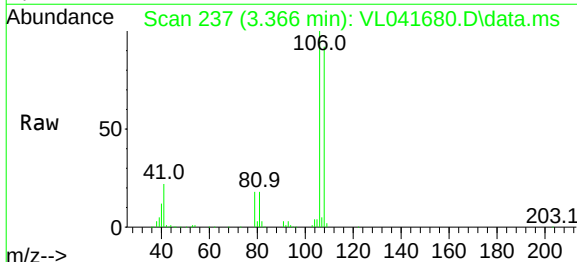
Manual Integrations  
APPROVED

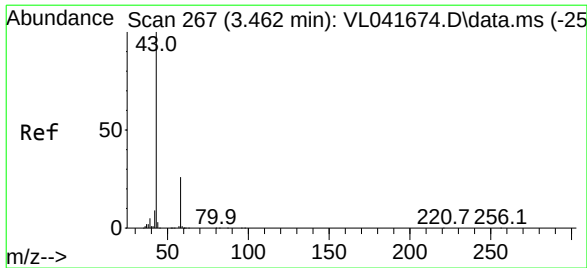
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#14  
Bromoethene  
Concen: 14.401 ppbv  
RT: 3.366 min Scan# 237  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion:108 Resp: 755053  
Ion Ratio Lower Upper  
108 100  
106 108.4 88.6 133.0  
79 20.3 15.6 23.4





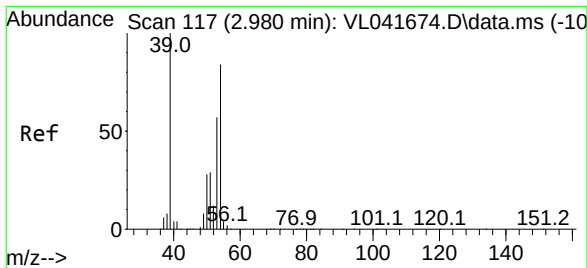
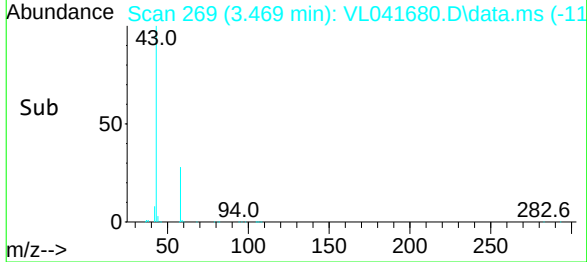
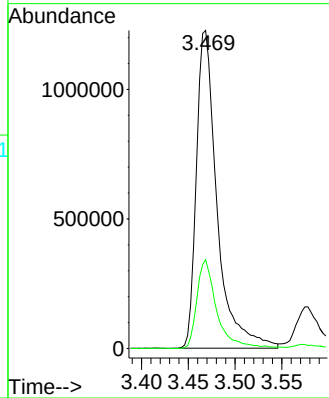
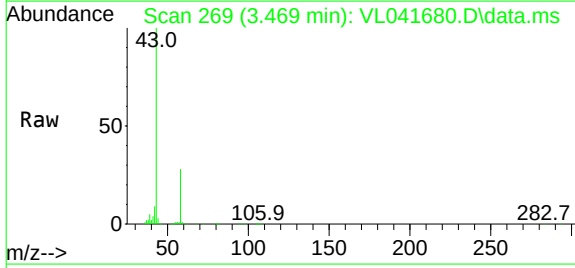
#15  
Acetone  
Concen: 13.448 ppbv  
RT: 3.469 min Scan# 267  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 43 Resp: 1886393  
Ion Ratio Lower Upper  
43 100  
58 27.1 21.4 32.0

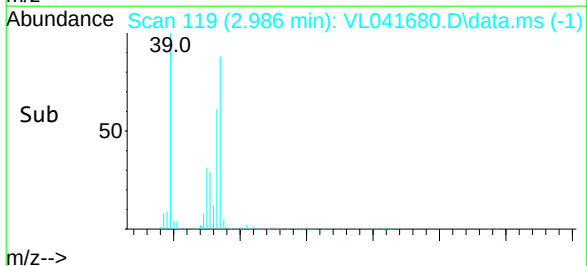
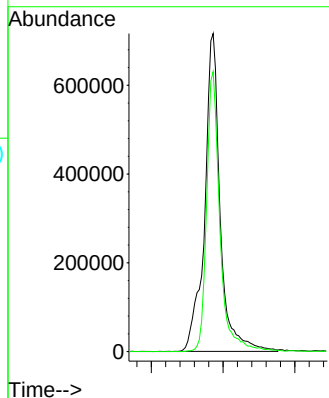
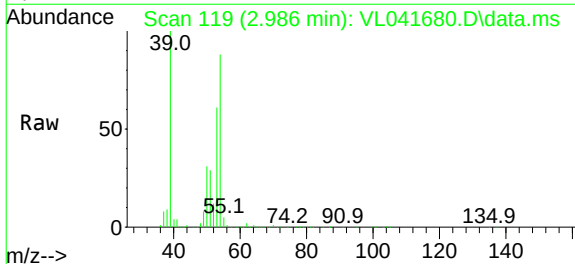
Manual Integrations  
APPROVED

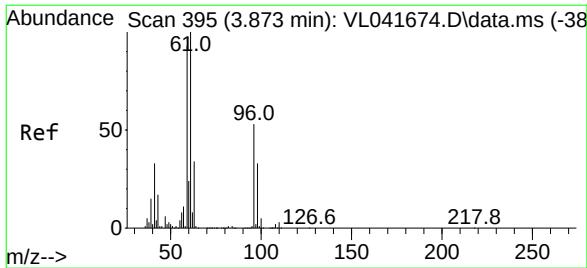
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#16  
1,3-Butadiene  
Concen: 15.371 ppbv  
RT: 2.986 min Scan# 119  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

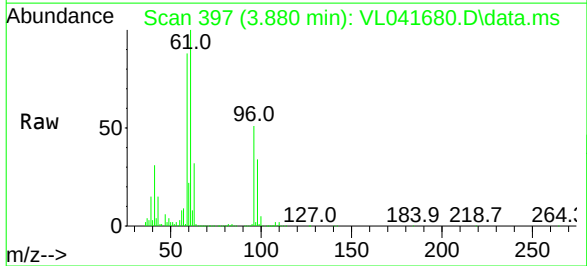
Tgt Ion: 39 Resp: 1081107  
Ion Ratio Lower Upper  
39 100  
54 75.5 61.3 91.9





#17  
tert-Butyl alcohol  
Concen: 13.516 ppbv  
RT: 3.880 min Scan# 397  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

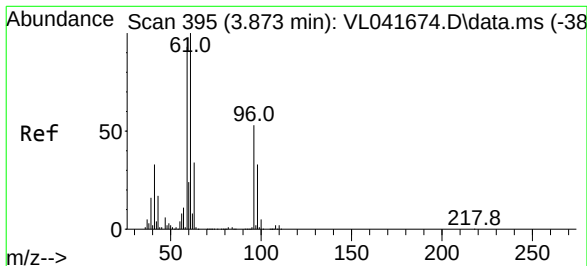
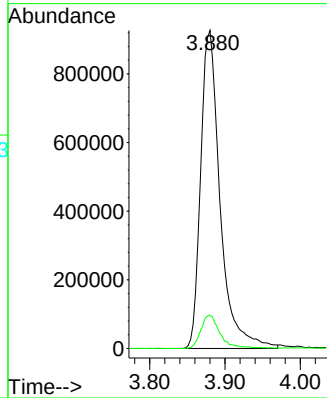
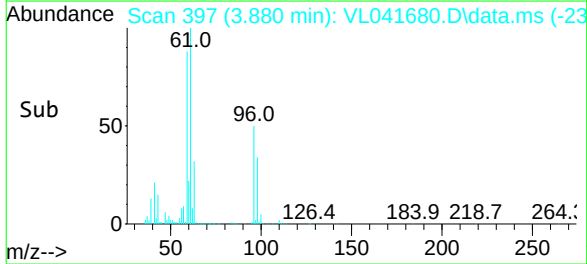
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



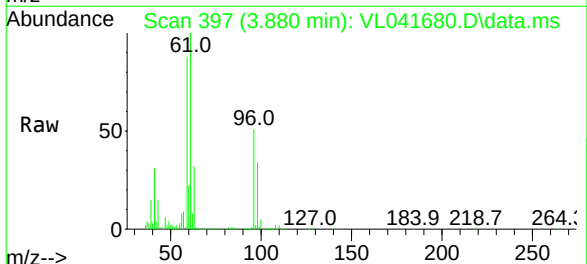
Tgt Ion: 59 Resp: 1663672  
Ion Ratio Lower Upper  
59 100  
57 10.5 8.5 12.7

Manual Integrations  
APPROVED

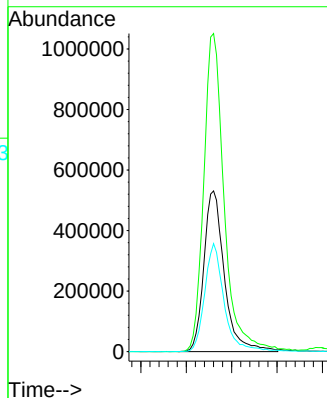
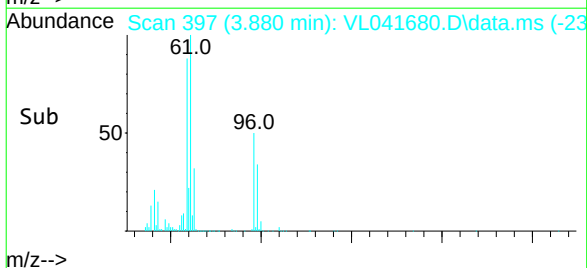
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

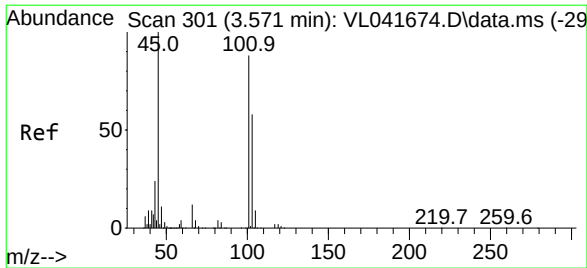


#18  
1,1-Dichloroethene  
Concen: 14.596 ppbv  
RT: 3.880 min Scan# 397  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12



Tgt Ion: 96 Resp: 834933  
Ion Ratio Lower Upper  
96 100  
61 198.0 150.7 226.1  
98 67.2 49.4 74.2





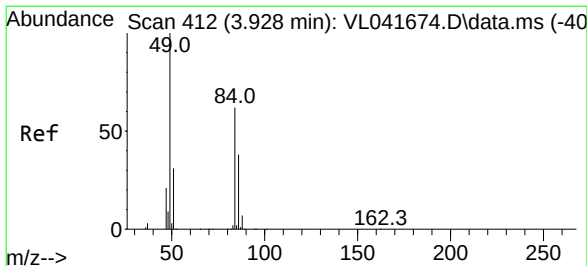
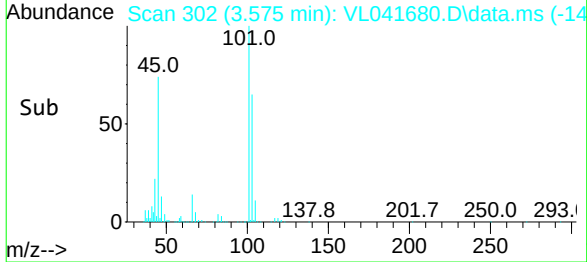
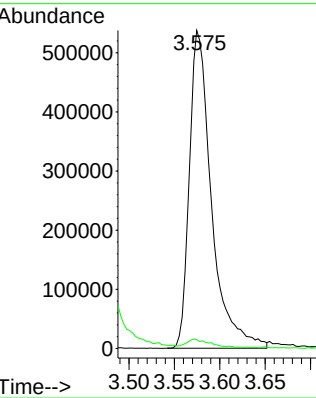
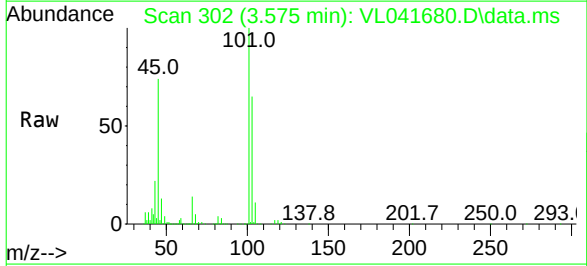
#19  
Isopropyl Alcohol  
Concen: 13.406 ppbv  
RT: 3.575 min Scan# 301  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 45 Resp: 910280  
Ion Ratio Lower Upper  
45 100  
58 3.1 2.5 3.7

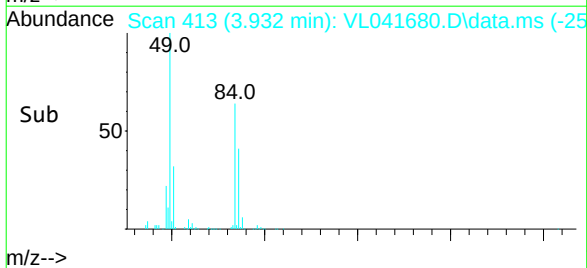
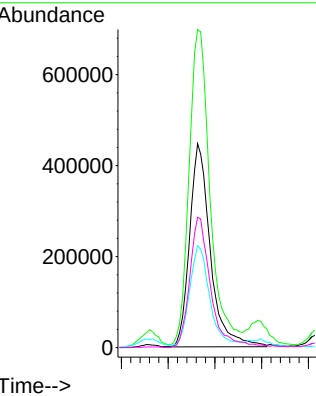
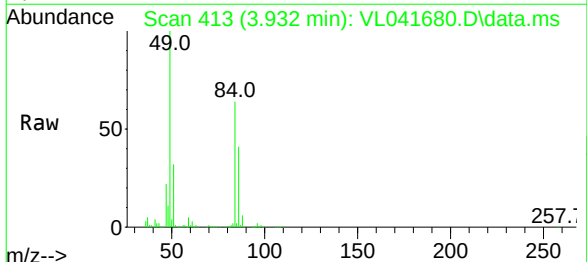
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

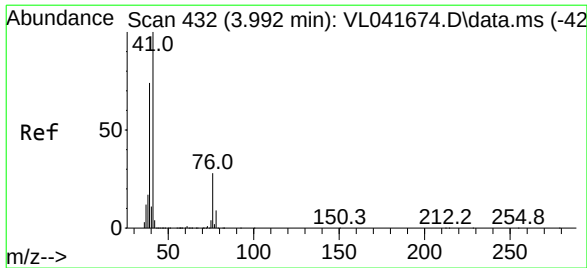


#20  
Methylene Chloride  
Concen: 13.313 ppbv  
RT: 3.932 min Scan# 413  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 84 Resp: 687212  
Ion Ratio Lower Upper  
84 100  
49 155.1 129.7 194.5  
51 48.9 39.8 59.6  
86 64.1 49.1 73.7







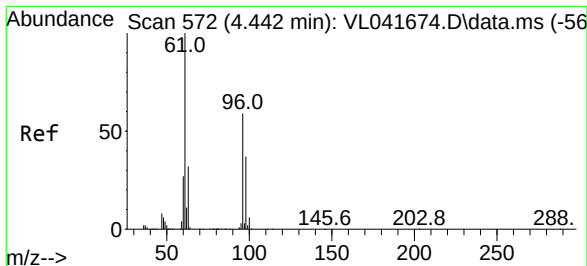
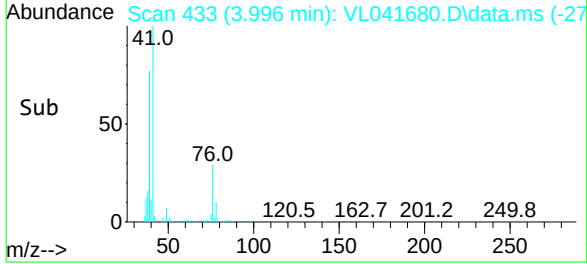
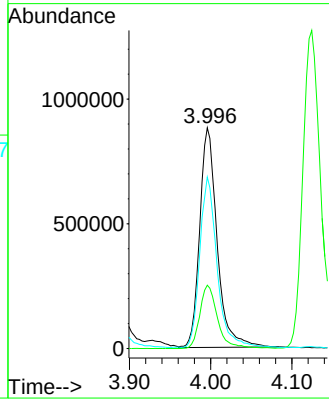
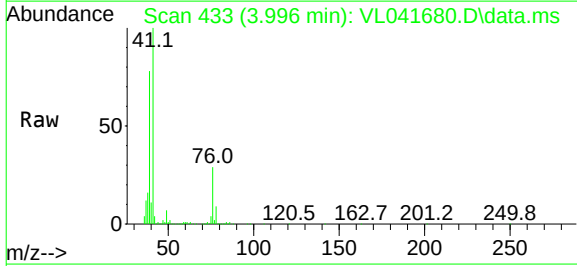
#21  
 Allyl Chloride  
 Concen: 15.194 ppbv  
 RT: 3.996 min Scan# 432  
 Delta R.T. 0.003 min  
 Lab File: VL041680.D  
 Acq: 7 Nov 2024 14:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Tgt Ion: 41 Resp: 1317025  
 Ion Ratio Lower Upper  
 41 100  
 76 29.3 23.5 35.3  
 39 77.7 63.0 94.4

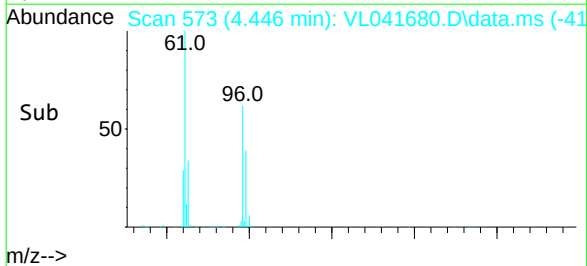
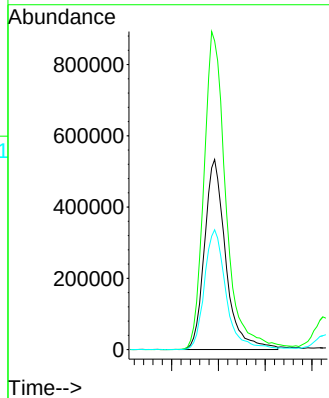
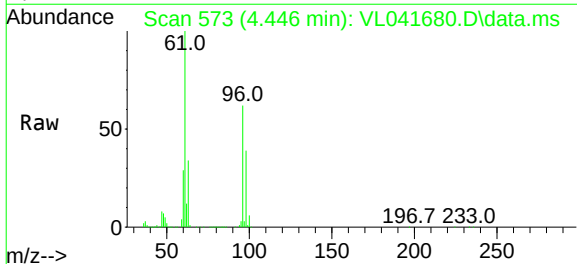
Manual Integrations  
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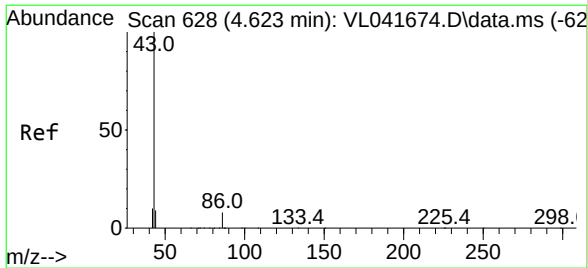
Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024



#22  
 trans-1,2-Dichloroethene  
 Concen: 14.755 ppbv  
 RT: 4.446 min Scan# 573  
 Delta R.T. 0.003 min  
 Lab File: VL041680.D  
 Acq: 7 Nov 2024 14:12

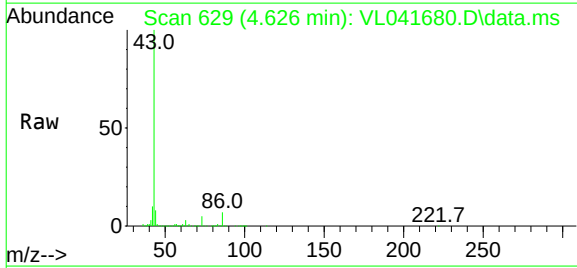
Tgt Ion: 96 Resp: 842095  
 Ion Ratio Lower Upper  
 96 100  
 61 162.3 134.5 201.7  
 98 62.9 49.6 74.4





#23  
Vinyl Acetate  
Concen: 14.047 ppbv  
RT: 4.626 min Scan# 62  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

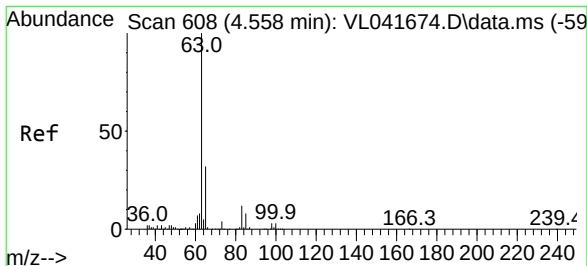
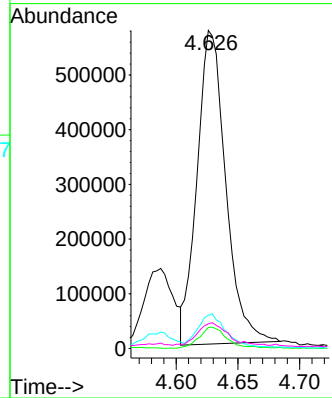
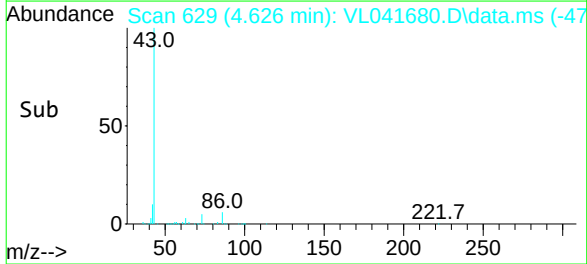
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



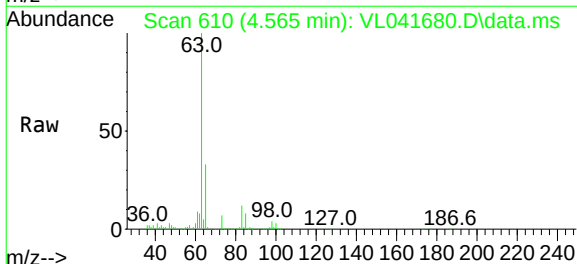
Tgt Ion: 43 Resp: 926796  
Ion Ratio Lower Upper  
43 100  
86 6.4 5.3 7.9  
42 10.1 8.5 12.7  
44 6.9 6.7 10.1

Manual Integrations  
APPROVED

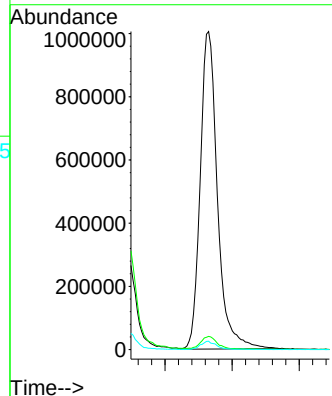
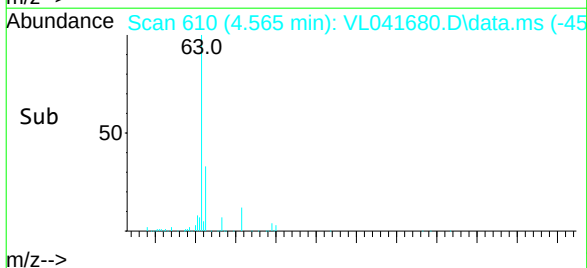
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

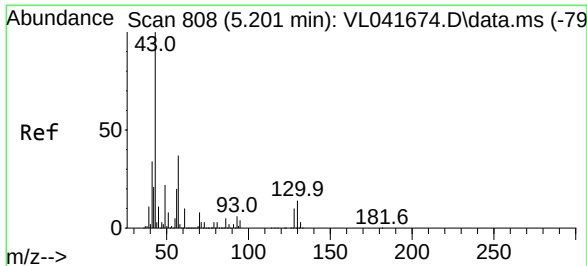


#24  
1,1-Dichloroethane  
Concen: 14.103 ppbv  
RT: 4.565 min Scan# 610  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12



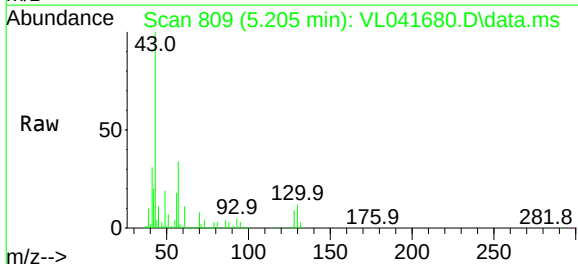
Tgt Ion: 63 Resp: 1790354  
Ion Ratio Lower Upper  
63 100  
98 4.1 1.8 5.4  
100 2.6 1.4 4.2





#25  
Ethyl Acetate  
Concen: 14.583 ppbv  
RT: 5.205 min Scan# 80  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

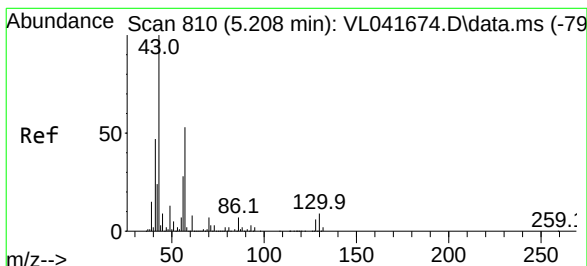
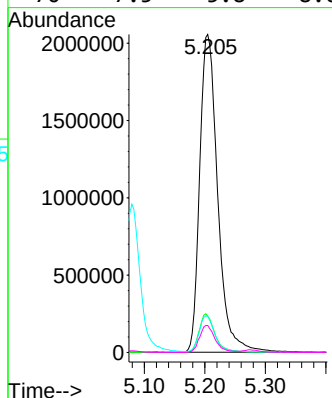
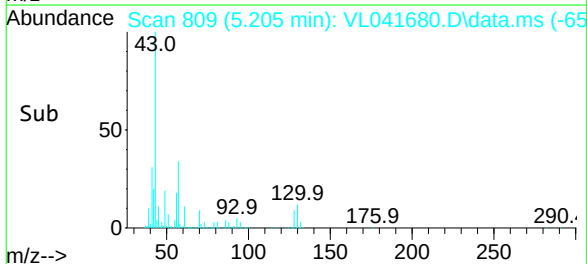
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



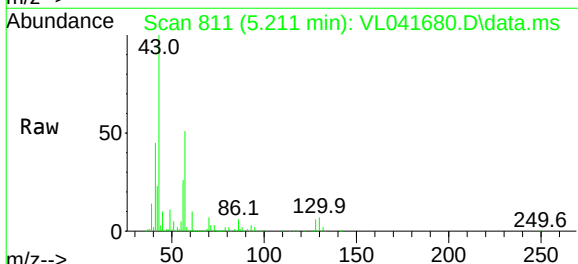
Tgt Ion: 43 Resp: 4234322  
Ion Ratio Lower Upper  
43 100  
45 10.9 8.6 13.0  
61 10.4 8.4 12.6  
70 7.5 5.8 8.6

Manual Integrations  
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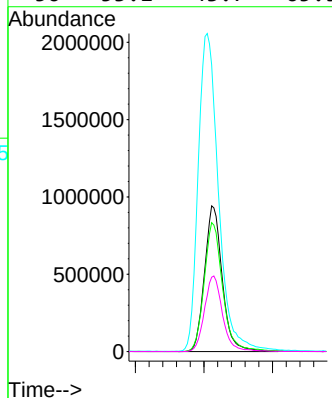
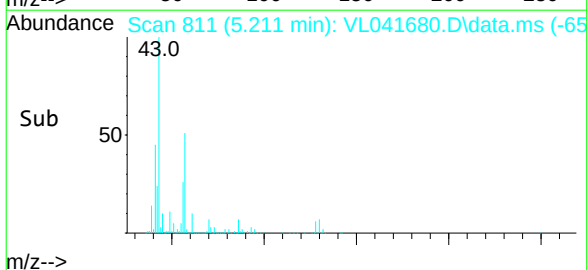
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

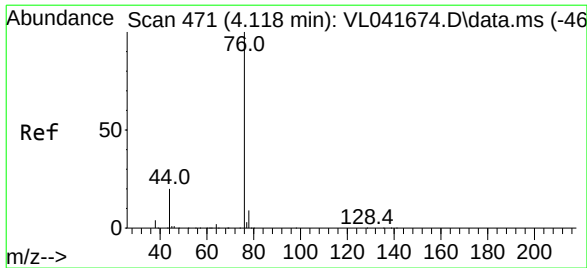


#26  
Hexane  
Concen: 15.184 ppbv  
RT: 5.211 min Scan# 811  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12



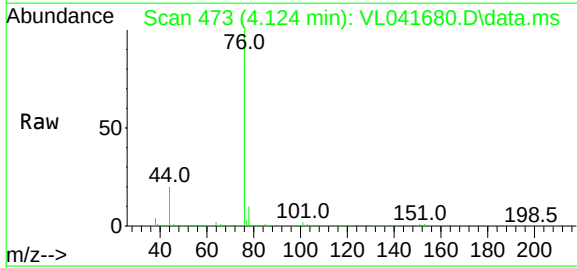
Tgt Ion: 57 Resp: 1693823  
Ion Ratio Lower Upper  
57 100  
41 92.5 76.1 114.1  
43 250.9 207.0 310.6  
56 53.1 43.7 65.5





#27  
Carbon Disulfide  
Concen: 16.531 ppbv  
RT: 4.124 min Scan# 471  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

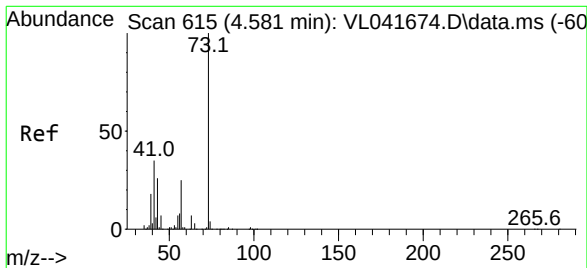
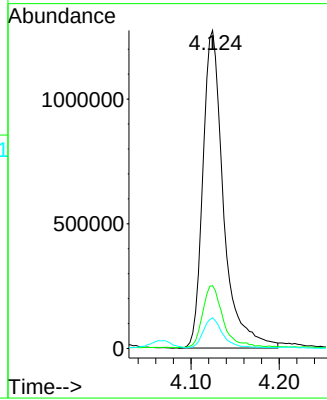
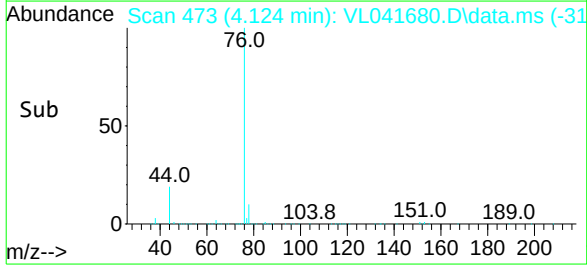
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion: 76 Resp: 2071779  
Ion Ratio Lower Upper  
76 100  
44 20.4 15.8 23.8  
78 9.5 7.5 11.3

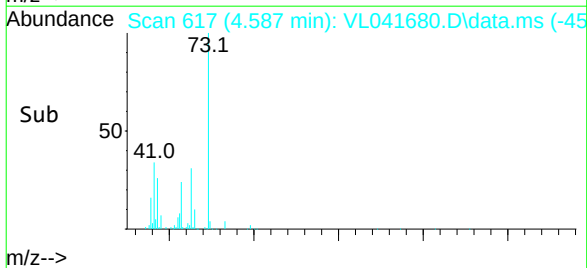
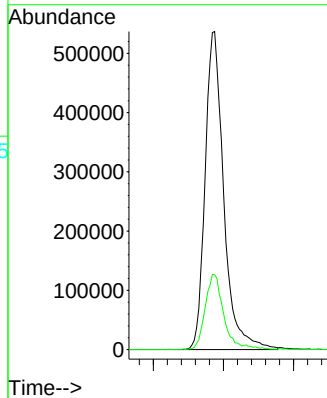
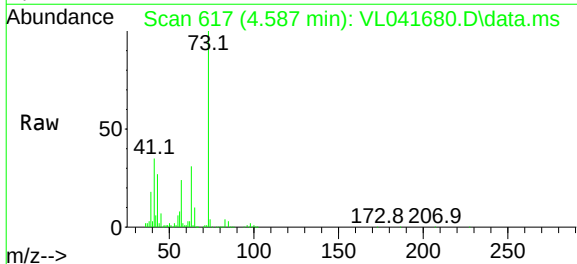
Manual Integrations  
APPROVED

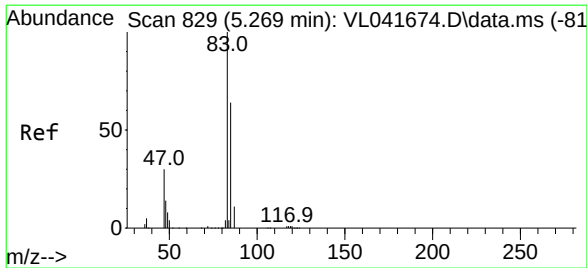
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#28  
Methyl tert-Butyl Ether  
Concen: 13.764 ppbv  
RT: 4.587 min Scan# 617  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 73 Resp: 988726  
Ion Ratio Lower Upper  
73 100  
57 23.9 19.6 29.4





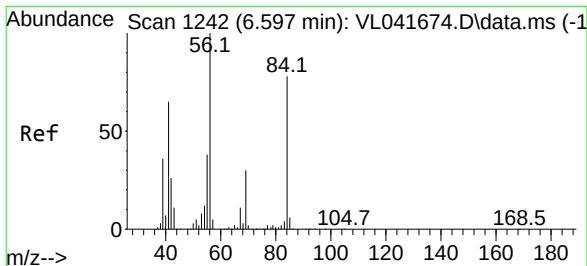
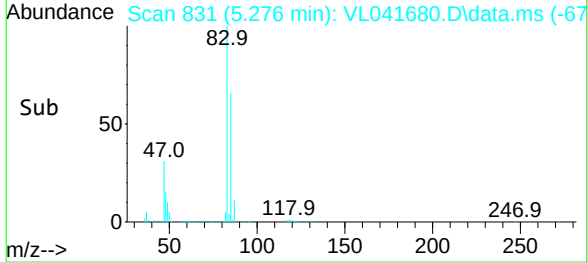
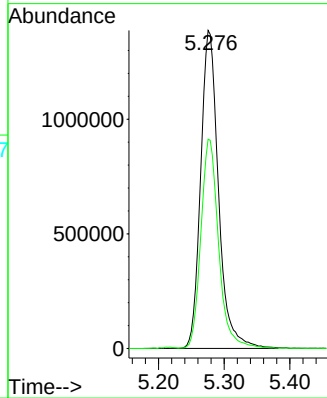
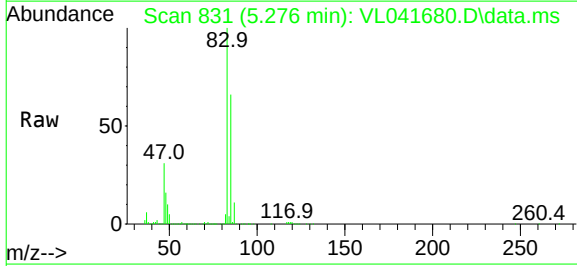
#29  
Chloroform  
Concen: 14.204 ppbv  
RT: 5.276 min Scan# 83  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 83 Resp: 2615593  
Ion Ratio Lower Upper  
83 100  
85 65.7 51.1 76.7

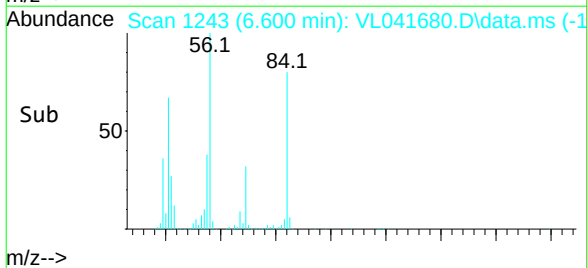
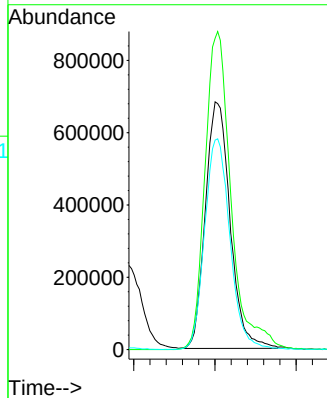
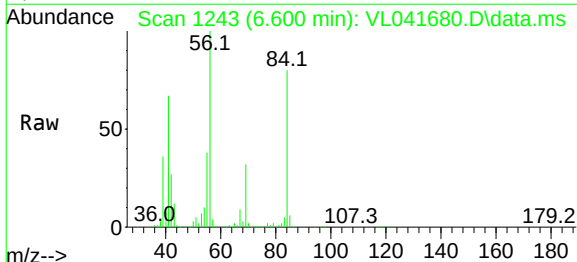
Manual Integrations  
APPROVED

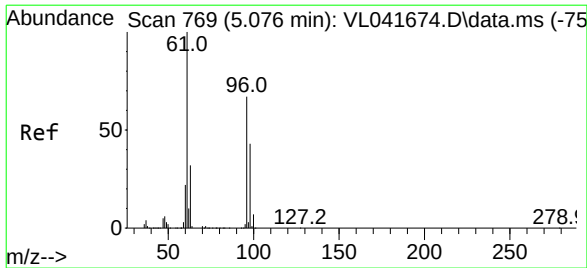
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#30  
Cyclohexane  
Concen: 16.132 ppbv  
RT: 6.600 min Scan# 1243  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

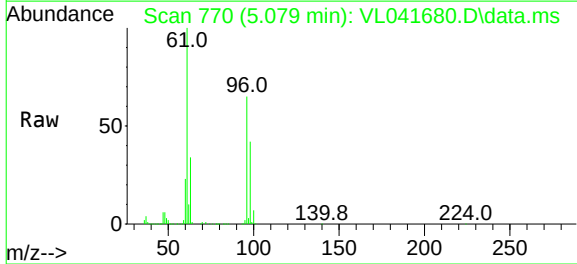
Tgt Ion: 84 Resp: 1445757  
Ion Ratio Lower Upper  
84 100  
56 135.8 110.8 166.2  
41 87.5 70.0 105.0





#31  
cis-1,2-Dichloroethene  
Concen: 15.426 ppbv  
RT: 5.079 min Scan# 77  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

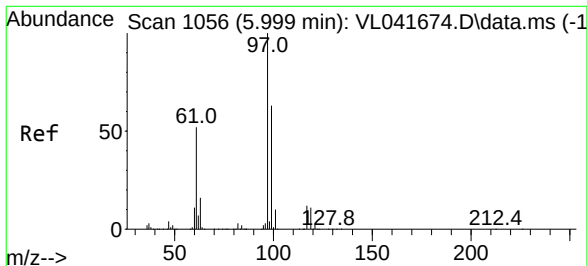
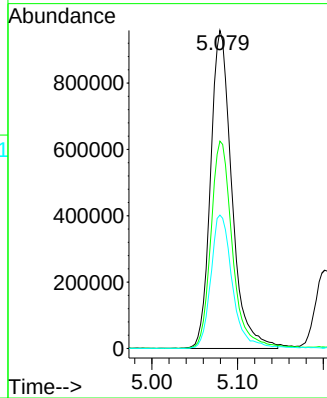
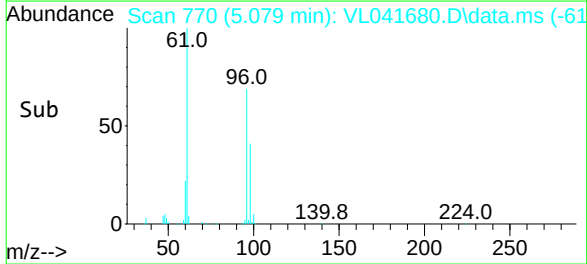
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



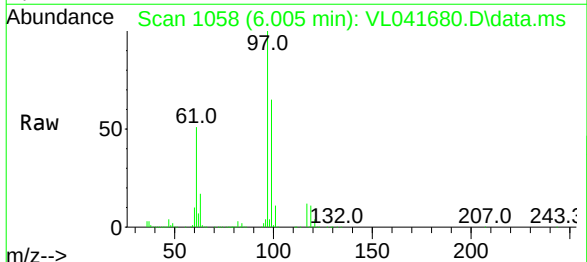
Tgt Ion: 61 Resp: 1655410  
Ion Ratio Lower Upper  
61 100  
96 65.1 53.4 80.2  
98 41.9 34.0 51.0

Manual Integrations  
APPROVED

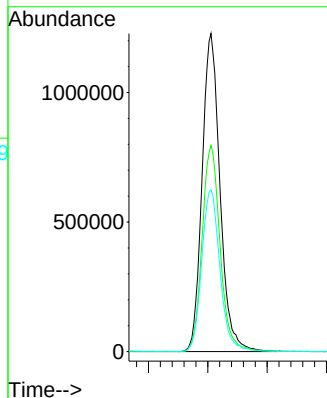
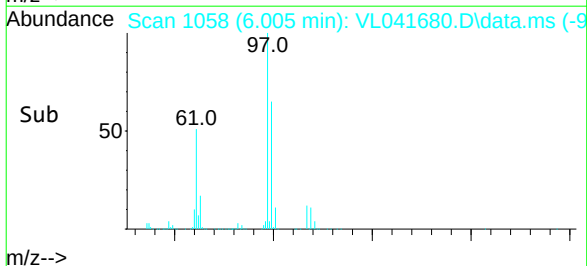
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

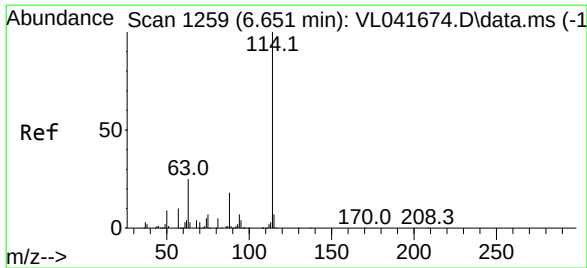


#32  
1,1,1-Trichloroethane  
Concen: 15.262 ppbv  
RT: 6.005 min Scan# 1058  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12



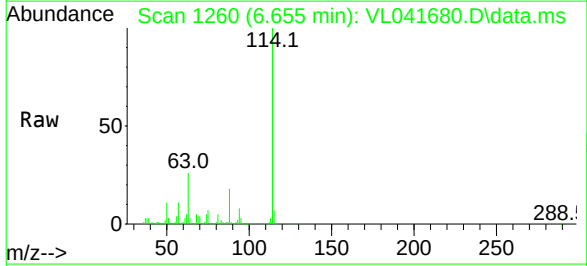
Tgt Ion: 97 Resp: 2576420  
Ion Ratio Lower Upper  
97 100  
99 65.0 51.4 77.2  
61 51.8 41.7 62.5





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.655 min Scan# 1259  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

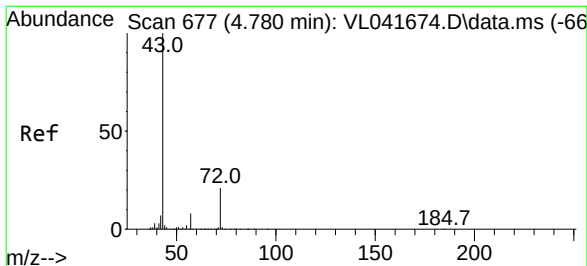
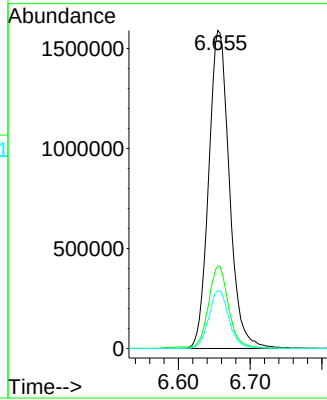
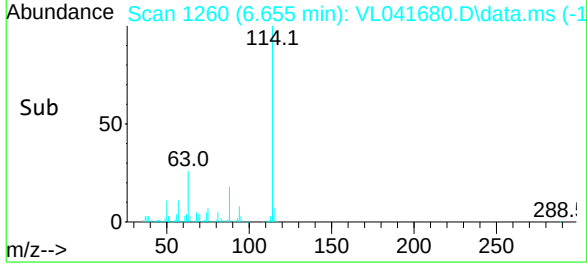
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



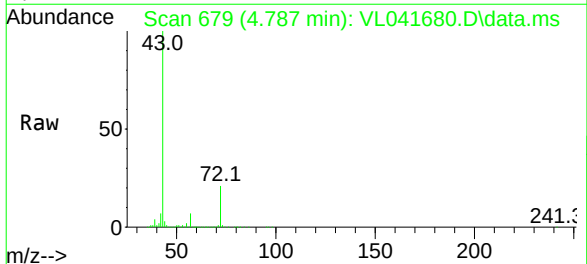
Tgt Ion: 114 Resp: 3182548  
Ion Ratio Lower Upper  
114 100  
63 25.7 20.3 30.5  
88 17.9 14.2 21.4

Manual Integrations  
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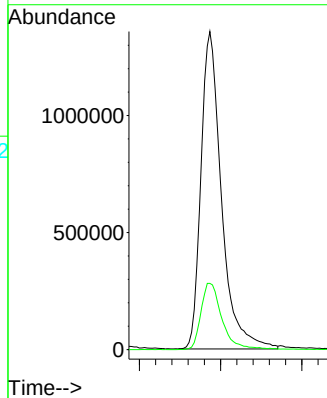
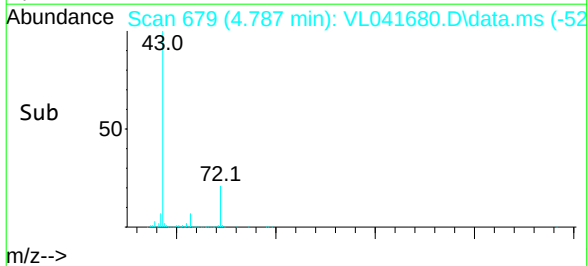
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

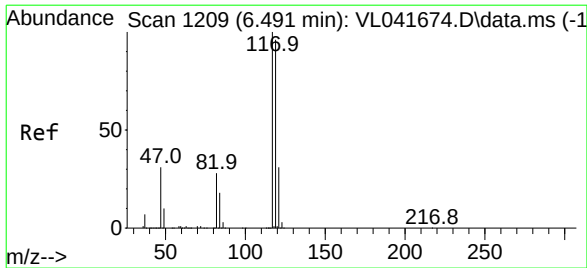


#34  
2-Butanone  
Concen: 15.033 ppbv  
RT: 4.787 min Scan# 679  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12



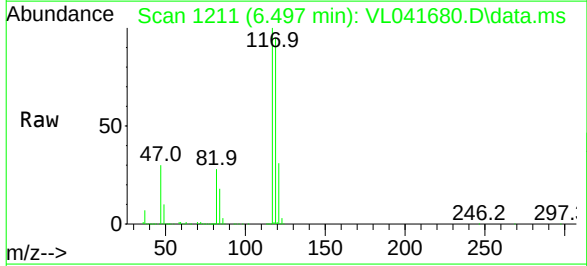
Tgt Ion: 43 Resp: 2382292  
Ion Ratio Lower Upper  
43 100  
72 21.6 17.4 26.0





#35  
Carbon Tetrachloride  
Concen: 16.220 ppbv  
RT: 6.497 min Scan# 1211  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

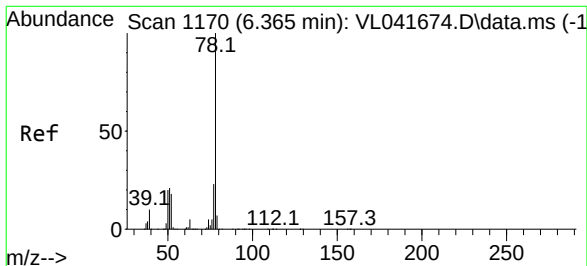
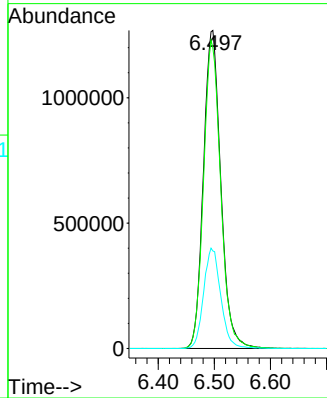
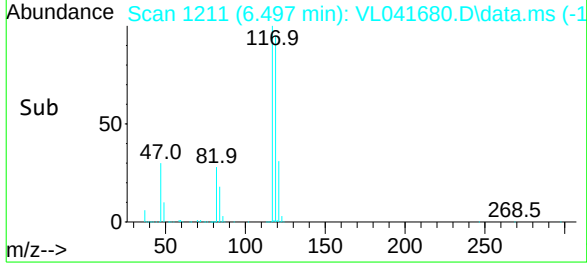
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



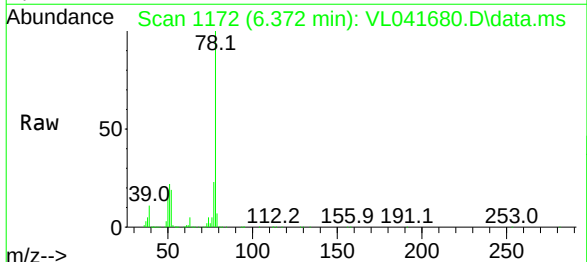
Tgt Ion: 117 Resp: 2728914  
Ion Ratio Lower Upper  
117 100  
119 94.5 77.2 115.8  
121 30.7 25.0 37.4

Manual Integrations  
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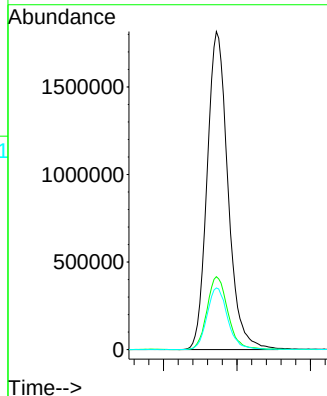
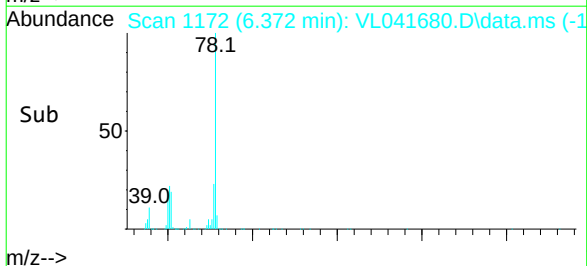
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



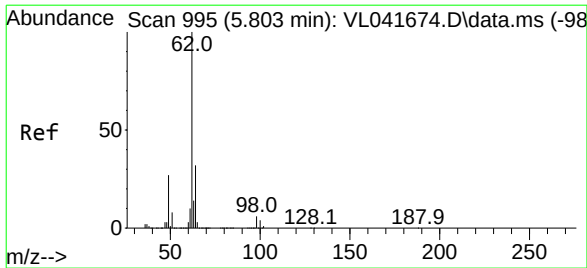
#36  
Benzene  
Concen: 15.182 ppbv  
RT: 6.372 min Scan# 1172  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12



Tgt Ion: 78 Resp: 3579956  
Ion Ratio Lower Upper  
78 100  
77 22.9 18.5 27.7  
50 19.4 15.6 23.4

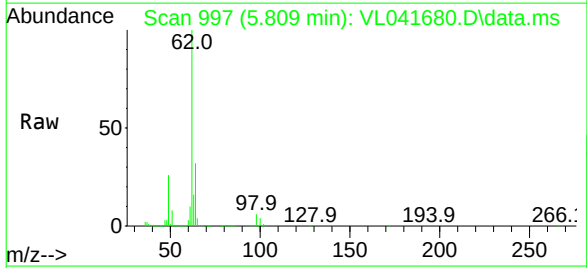






#37  
1,2-Dichloroethane  
Concen: 14.978 ppbv  
RT: 5.809 min Scan# 995  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

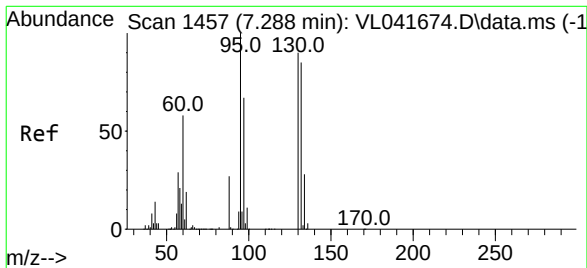
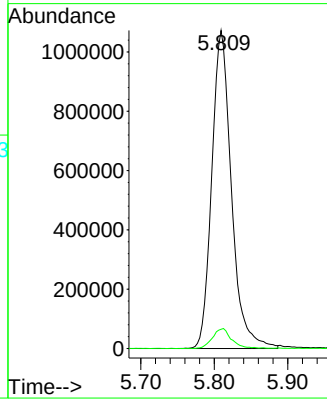
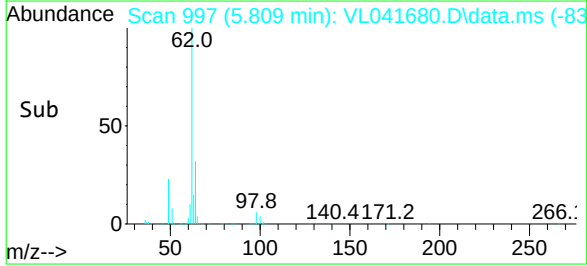
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



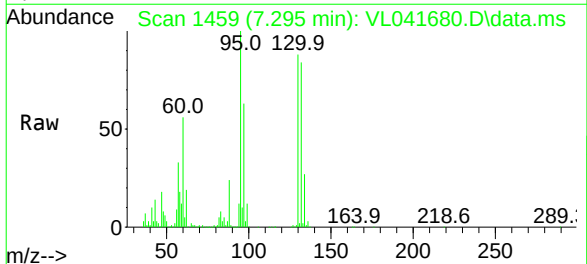
Tgt Ion: 62 Resp: 1992504  
Ion Ratio Lower Upper  
62 100  
98 6.2 5.2 7.8

Manual Integrations  
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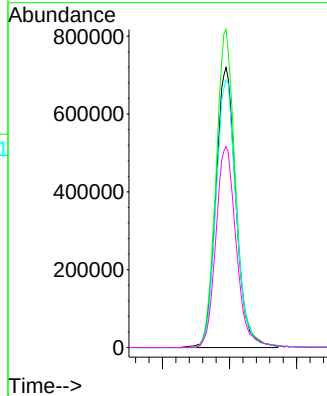
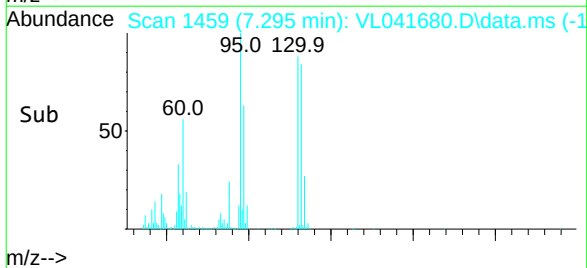
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

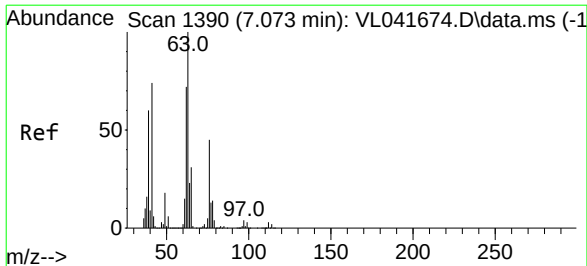


#38  
Trichloroethene  
Concen: 16.410 ppbv  
RT: 7.295 min Scan# 1459  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12



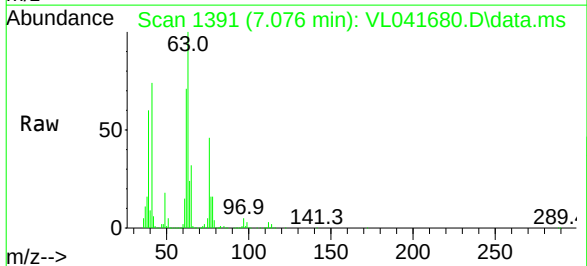
Tgt Ion:130 Resp: 1492186  
Ion Ratio Lower Upper  
130 100  
95 113.5 89.1 133.7  
132 95.6 75.7 113.5  
97 71.7 60.0 90.0





#39  
1,2-Dichloropropane  
Concen: 15.081 ppbv  
RT: 7.076 min Scan# 1390  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

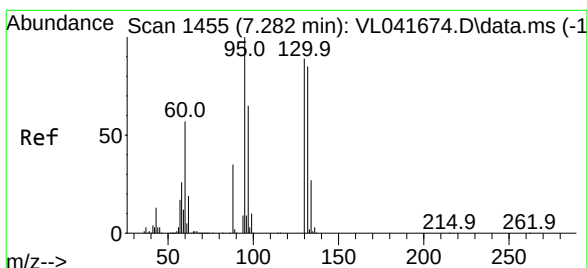
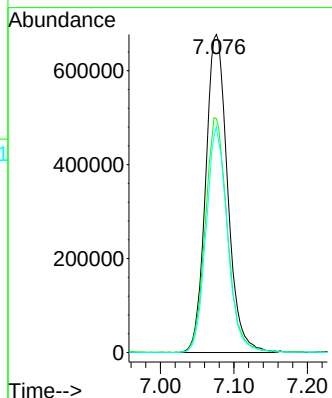
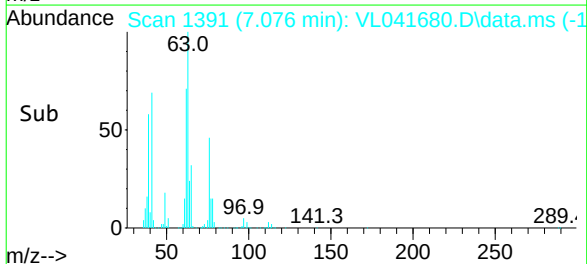
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion: 63 Resp: 1405373  
Ion Ratio Lower Upper  
63 100  
41 73.5 59.1 88.7  
62 70.9 57.7 86.5

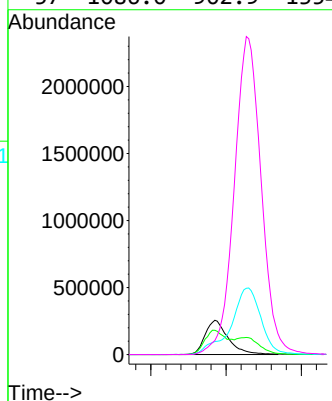
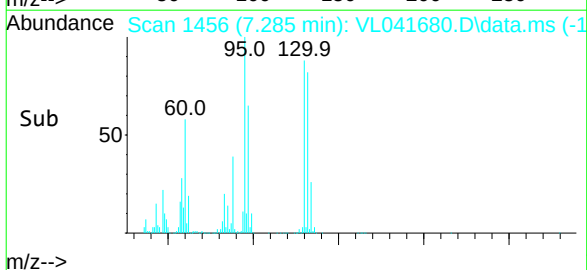
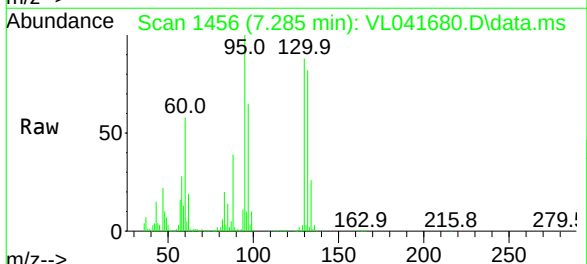
Manual Integrations  
APPROVED

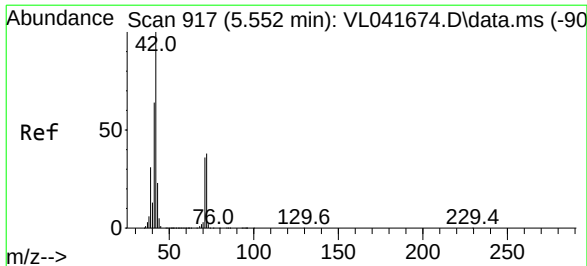
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#40  
1,4-Dioxane  
Concen: 16.521 ppbv  
RT: 7.285 min Scan# 1456  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

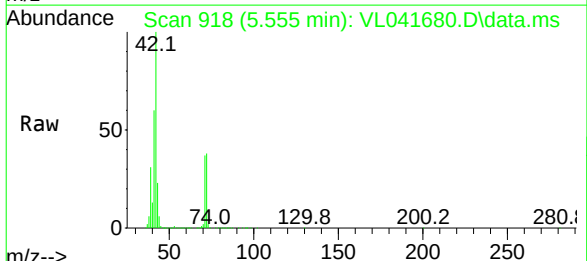
Tgt Ion: 88 Resp: 545340  
Ion Ratio Lower Upper  
88 100  
58 122.1 101.4 152.2  
43 254.6 208.0 312.0  
57 1086.0 902.9 1354.3





#41  
Tetrahydrofuran  
Concen: 16.040 ppbv  
RT: 5.555 min Scan# 917  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

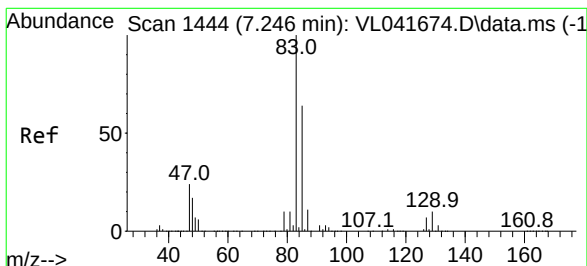
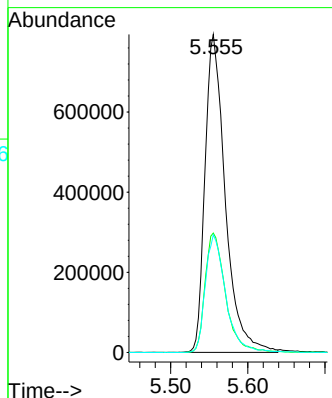
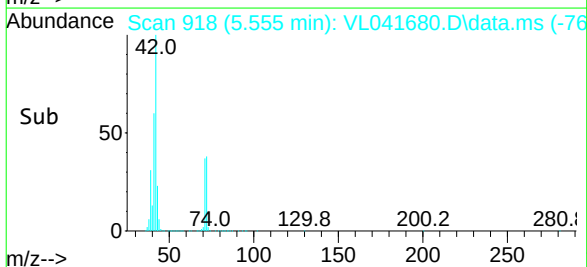
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion: 42 Resp: 1449986  
Ion Ratio Lower Upper  
42 100  
72 38.0 29.8 44.6  
71 37.3 29.4 44.2

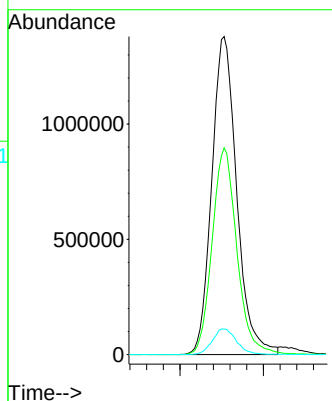
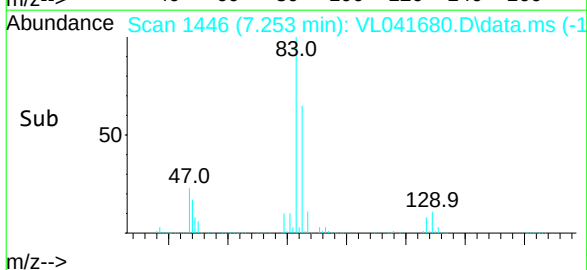
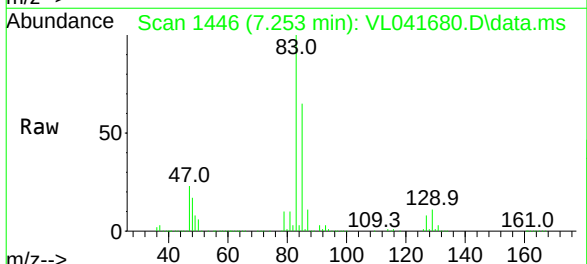
Manual Integrations  
APPROVED

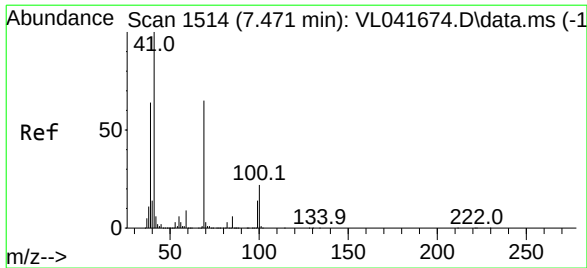
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#42  
Bromodichloromethane  
Concen: 15.522 ppbv  
RT: 7.253 min Scan# 1446  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 83 Resp: 2869440  
Ion Ratio Lower Upper  
83 100  
85 65.0 51.2 76.8  
127 8.0 6.0 9.0





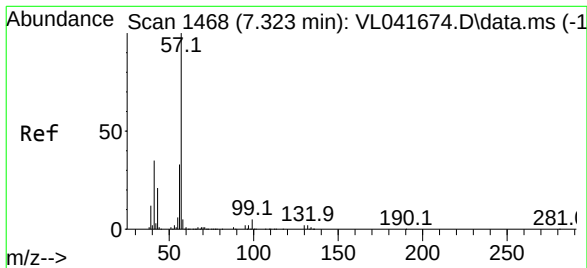
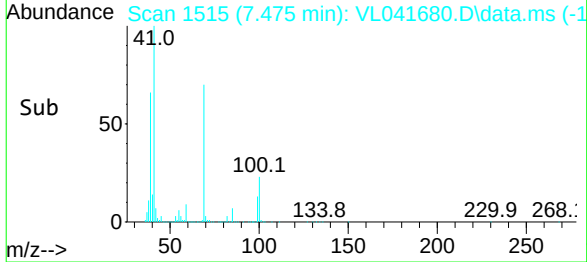
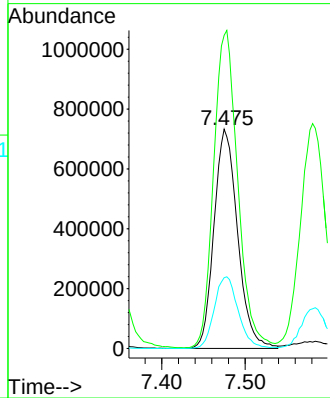
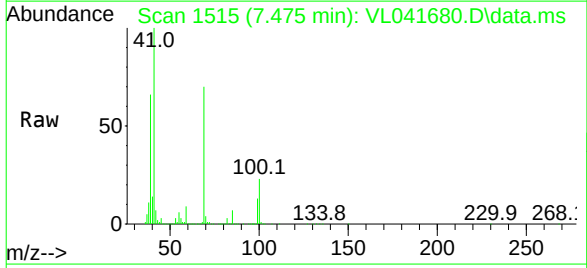
#43  
Methyl Methacrylate  
Concen: 17.388 ppbv  
RT: 7.475 min Scan# 1514  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 69 Resp: 1439612  
Ion Ratio Lower Upper  
69 100  
41 148.6 119.8 179.6  
100 33.3 27.3 40.9

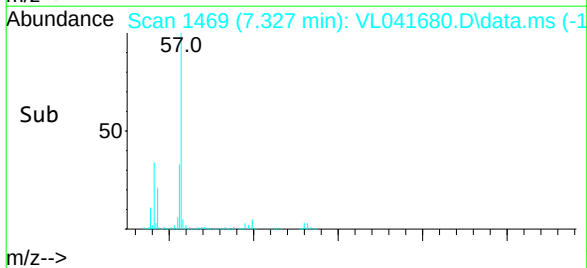
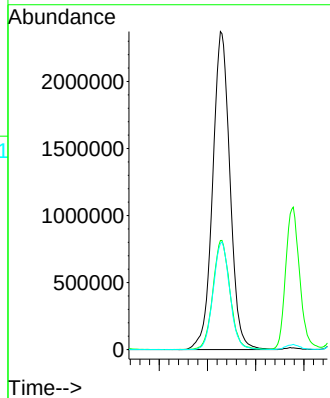
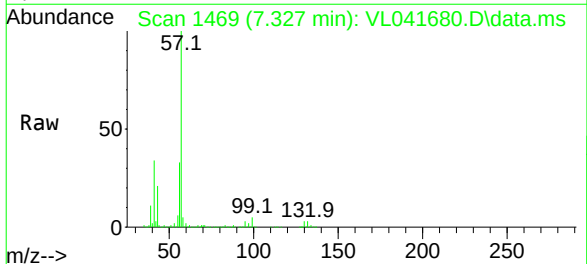
Manual Integrations  
APPROVED

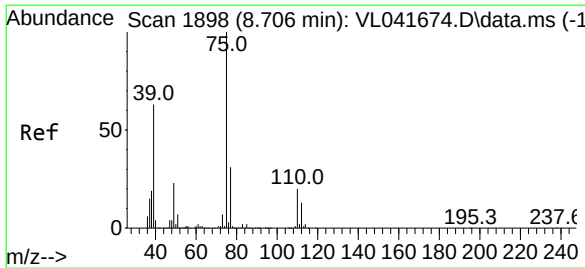
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#44  
2,2,4-Trimethylpentane  
Concen: 14.828 ppbv  
RT: 7.327 min Scan# 1469  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

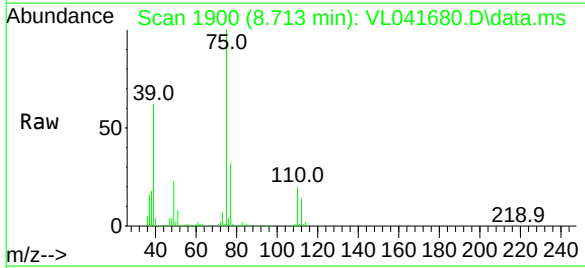
Tgt Ion: 57 Resp: 5922866  
Ion Ratio Lower Upper  
57 100  
41 33.8 27.0 40.6  
56 32.7 25.8 38.6





#45  
t-1,3-Dichloropropene  
Concen: 19.850 ppbv  
RT: 8.713 min Scan# 19  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

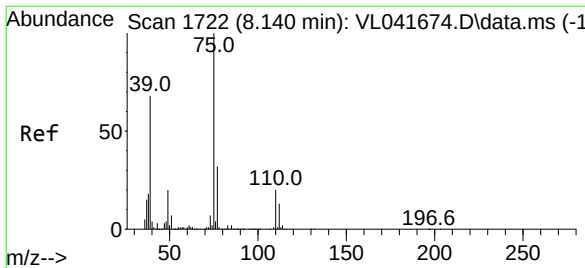
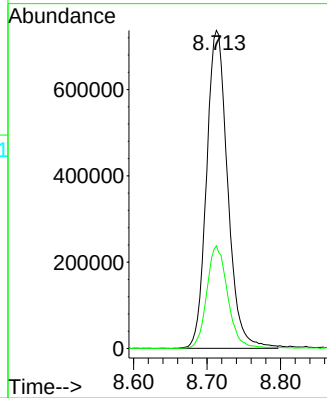
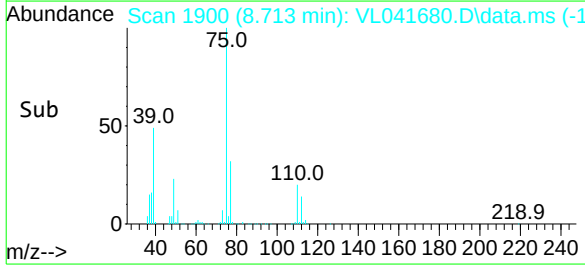
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion: 75 Resp: 1469151  
Ion Ratio Lower Upper  
75 100  
77 32.3 24.7 37.1

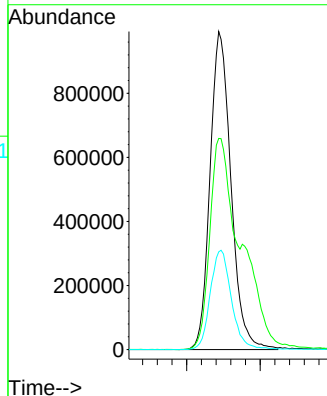
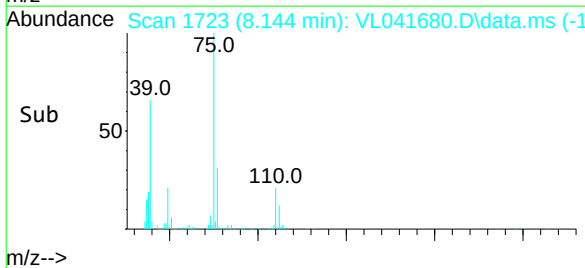
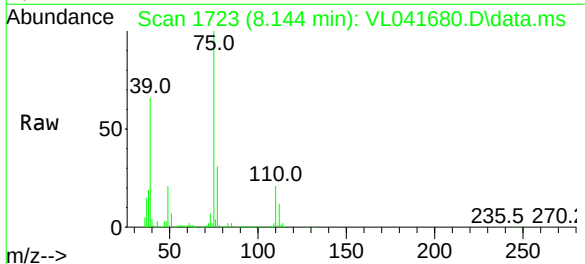
Manual Integrations  
APPROVED

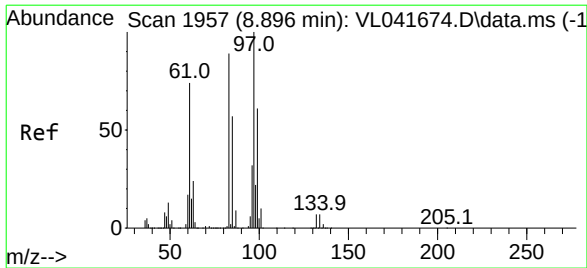
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#46  
cis-1,3-Dichloropropene  
Concen: 18.259 ppbv  
RT: 8.144 min Scan# 1723  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

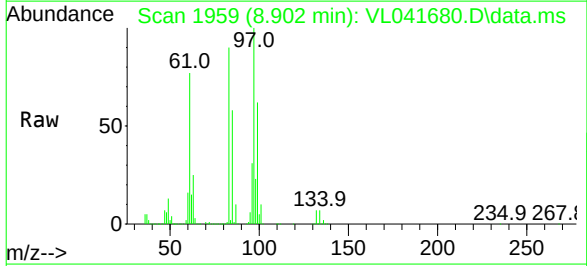
Tgt Ion: 75 Resp: 1964082  
Ion Ratio Lower Upper  
75 100  
39 66.4 54.1 81.1  
77 30.7 25.3 37.9





#47  
1,1,2-Trichloroethane  
Concen: 14.895 ppbv  
RT: 8.902 min Scan# 1957  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

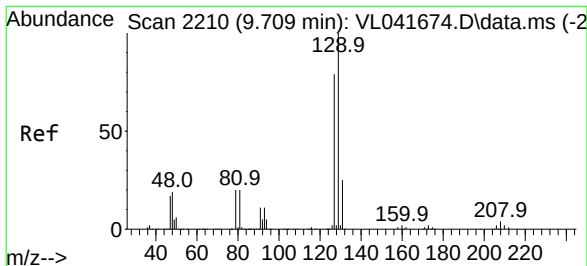
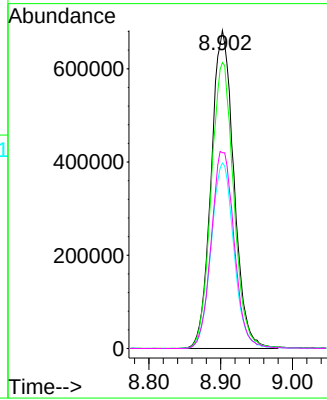
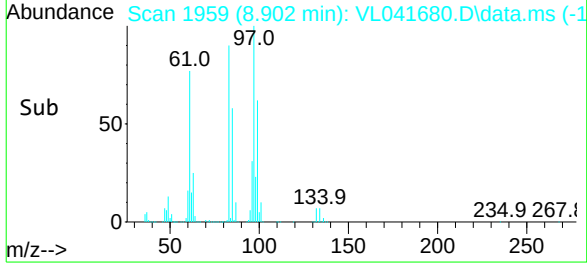
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



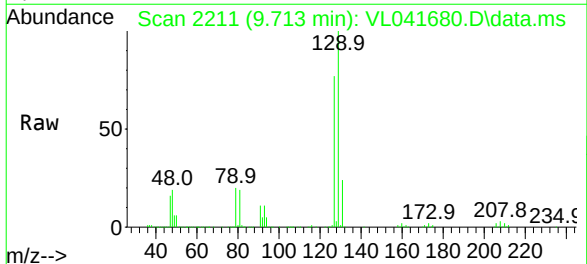
Tgt Ion: 97 Resp: 1496508  
Ion Ratio Lower Upper  
97 100  
83 89.9 71.0 106.6  
85 58.3 45.4 68.2  
99 61.6 49.0 73.6

Manual Integrations  
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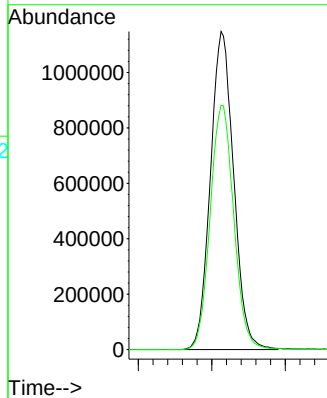
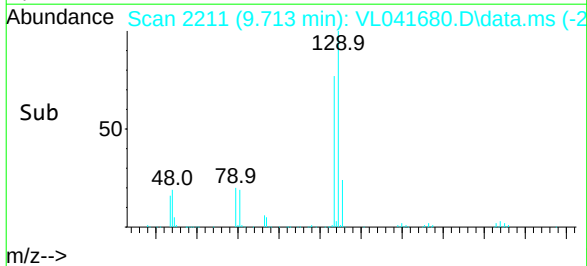
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

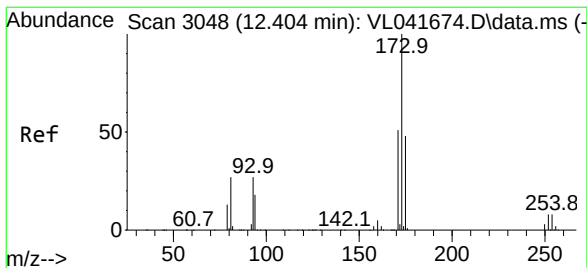


#48  
Dibromochloromethane  
Concen: 16.444 ppbv  
RT: 9.713 min Scan# 2211  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12



Tgt Ion:129 Resp: 2521147  
Ion Ratio Lower Upper  
129 100  
127 78.0 39.1 117.2





#49

Bromoform

Concen: 17.318 ppbv

RT: 12.413 min Scan# 3048

Delta R.T. 0.010 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Tgt Ion: 173 Resp: 2265132

Ion Ratio Lower Upper

173 100

175 49.1 39.2 58.8

171 52.8 41.7 62.5

Instrument :

MSVOA\_L

ClientSampleId :

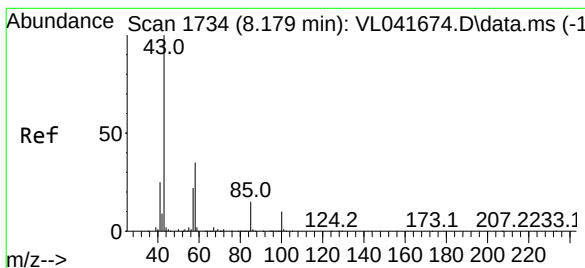
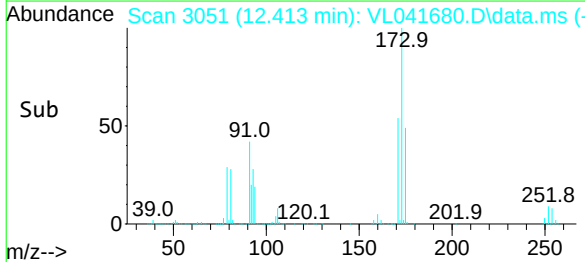
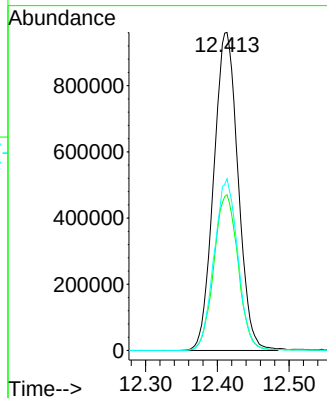
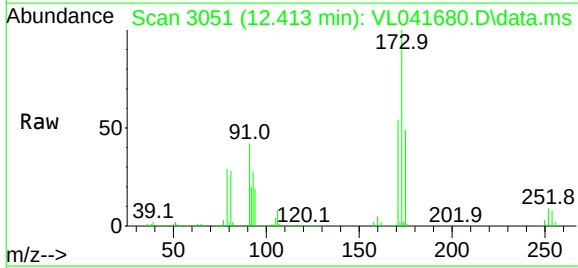
VSTDICC015

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#50

4-Methyl-2-Pentanone

Concen: 15.919 ppbv

RT: 8.182 min Scan# 1735

Delta R.T. 0.003 min

Lab File: VL041680.D

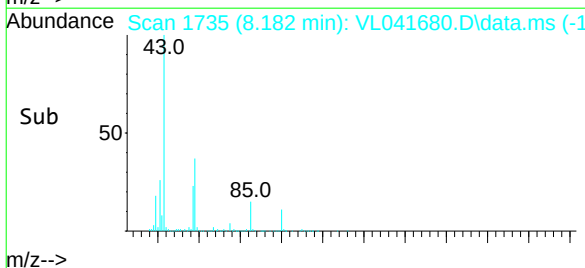
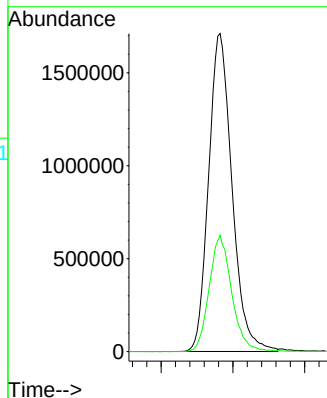
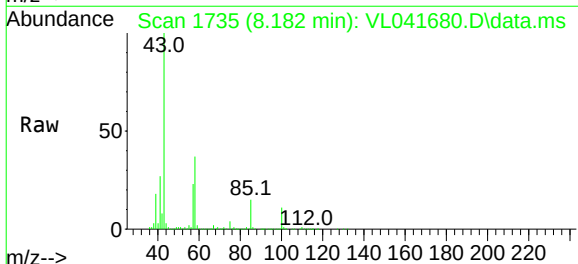
Acq: 7 Nov 2024 14:12

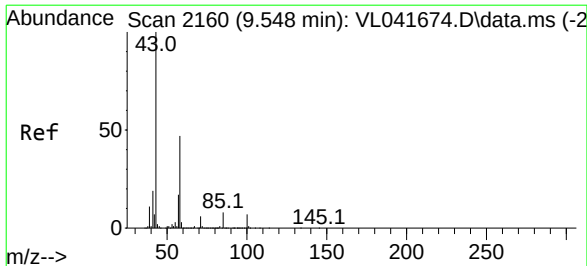
Tgt Ion: 43 Resp: 3873850

Ion Ratio Lower Upper

43 100

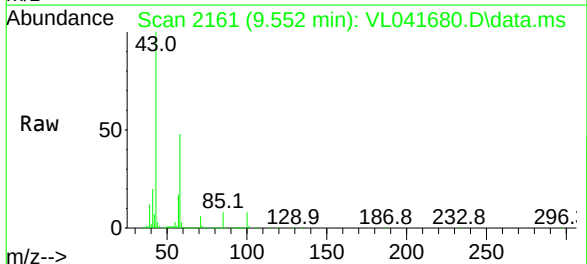
58 35.3 27.7 41.5





#51  
2-Hexanone  
Concen: 17.512 ppbv  
RT: 9.552 min Scan# 2160  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

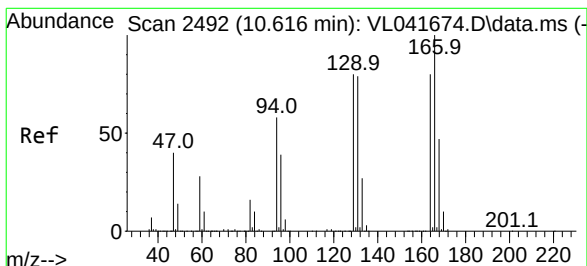
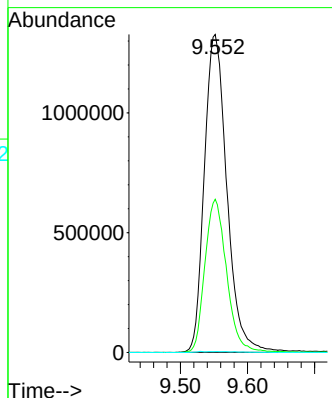
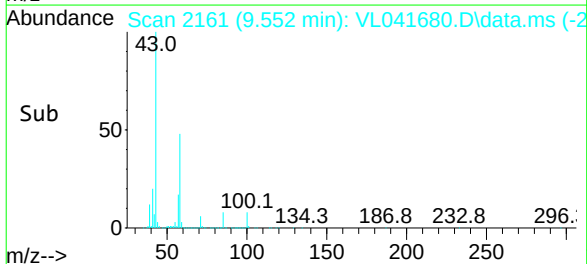
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



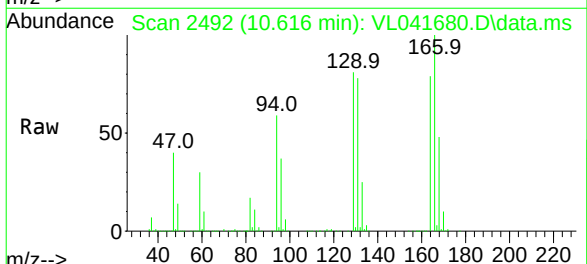
Tgt Ion: 43 Resp: 3096656  
Ion Ratio Lower Upper  
43 100  
58 46.8 37.0 55.6  
98 0.5 0.6 0.8

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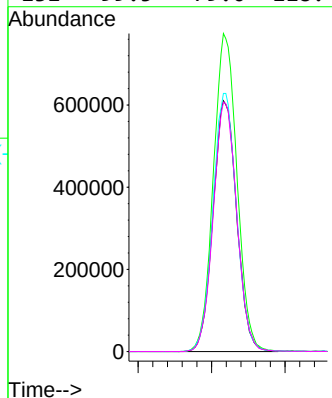
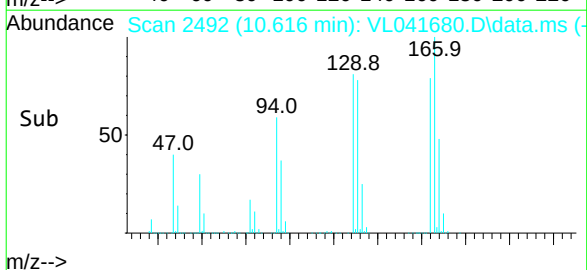
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



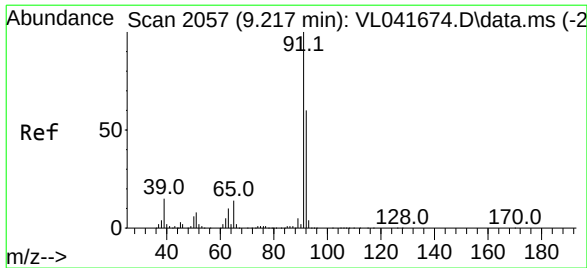
#52  
Tetrachloroethene  
Concen: 16.900 ppbv  
RT: 10.616 min Scan# 2492  
Delta R.T. 0.000 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12



Tgt Ion:164 Resp: 1362327  
Ion Ratio Lower Upper  
164 100  
166 126.8 100.2 150.4  
129 102.9 79.7 119.5  
131 99.5 79.0 118.4

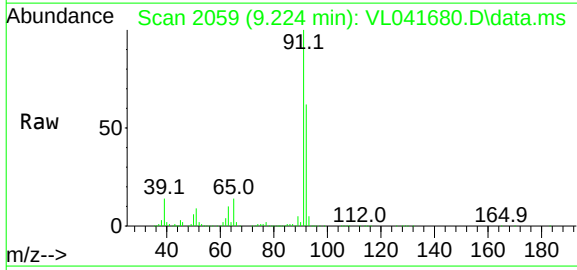






#53  
Toluene  
Concen: 16.909 ppbv  
RT: 9.224 min Scan# 2057  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

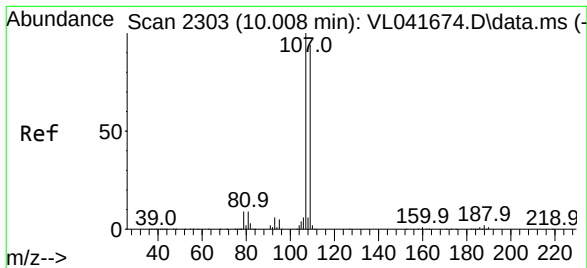
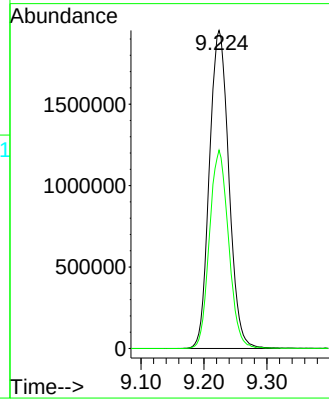
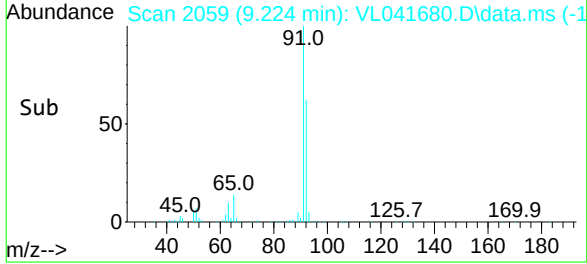
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion: 91 Resp: 4192947  
Ion Ratio Lower Upper  
91 100  
92 61.3 49.0 73.4

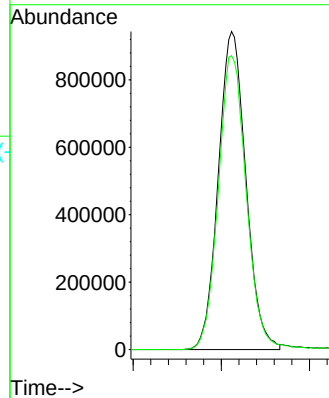
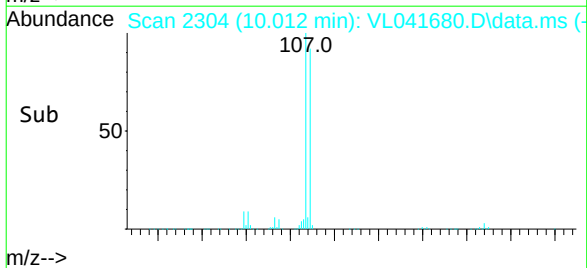
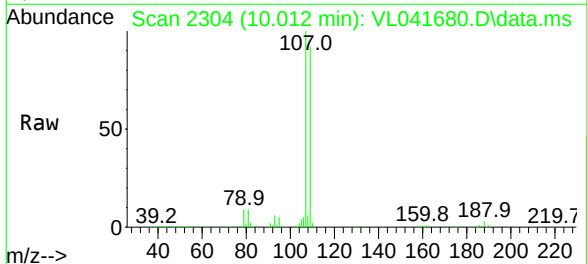
Manual Integrations  
APPROVED

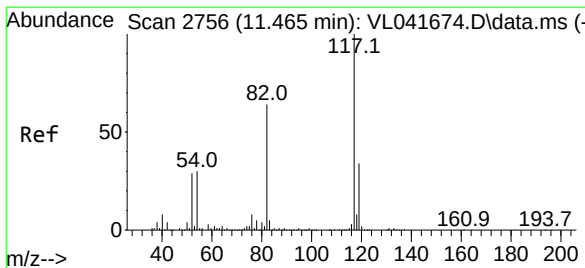
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#54  
1,2-Dibromoethane  
Concen: 17.451 ppbv  
RT: 10.012 min Scan# 2304  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion:107 Resp: 2047188  
Ion Ratio Lower Upper  
107 100  
109 92.4 74.9 112.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.468 min Scan# 2756

Delta R.T. 0.003 min

Lab File: VL041680.D

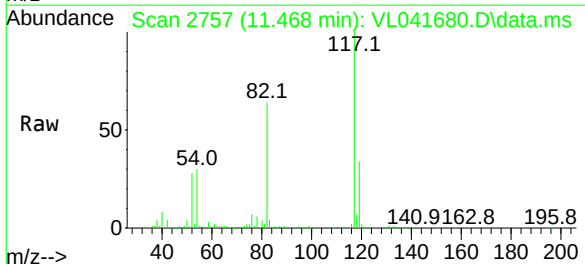
Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015



Tgt Ion:117 Resp: 3271356

Ion Ratio Lower Upper

117 100

82 60.9 49.8 74.8

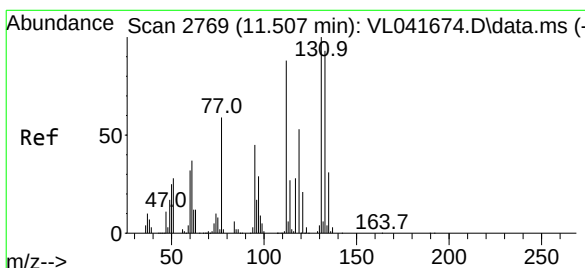
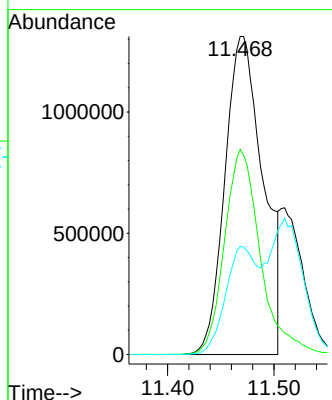
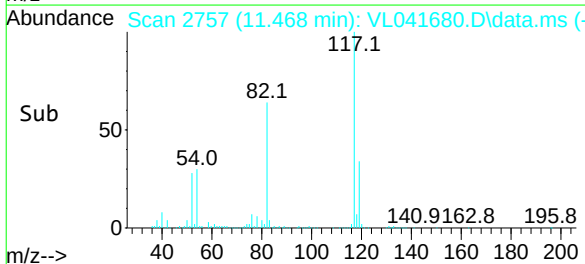
119 30.7 24.2 36.4

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#56

1,1,1,2-Tetrachloroethane

Concen: 13.588 ppbv

RT: 11.510 min Scan# 2770

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

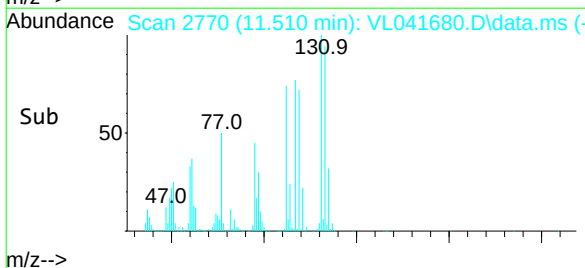
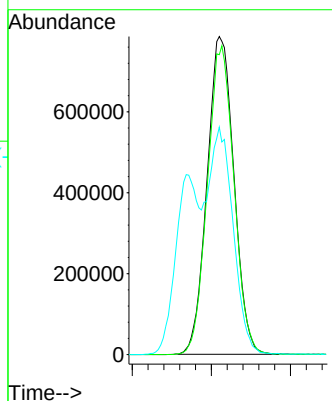
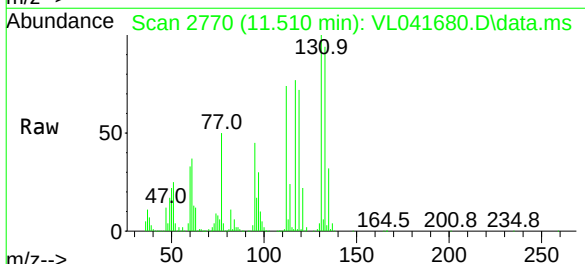
Tgt Ion:131 Resp: 1851127

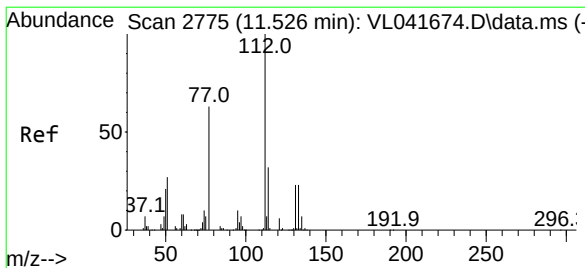
Ion Ratio Lower Upper

131 100

133 96.3 76.5 114.7

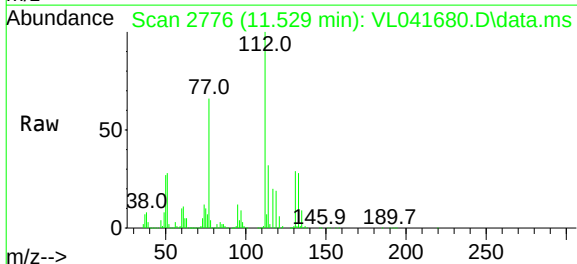
119 64.4 49.8 74.8





#57  
Chlorobenzene  
Concen: 13.453 ppbv  
RT: 11.529 min Scan# 2775  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

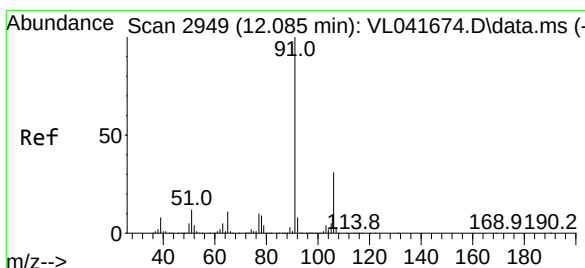
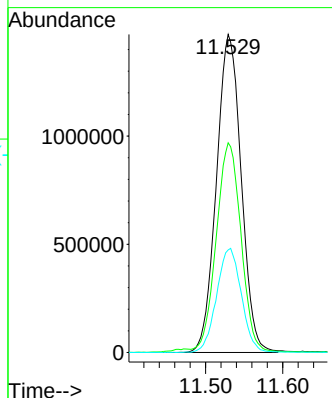
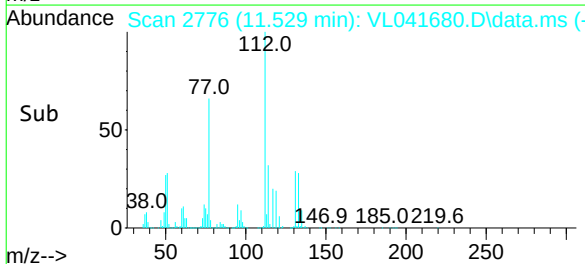
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion:112 Resp: 3280487  
Ion Ratio Lower Upper  
112 100  
77 65.6 51.4 77.2  
114 32.2 28.4 34.8

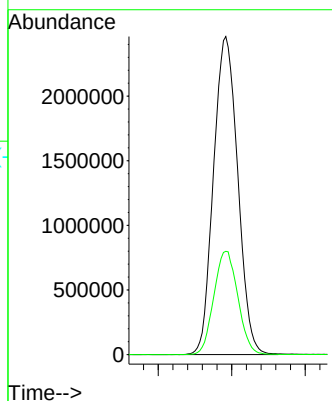
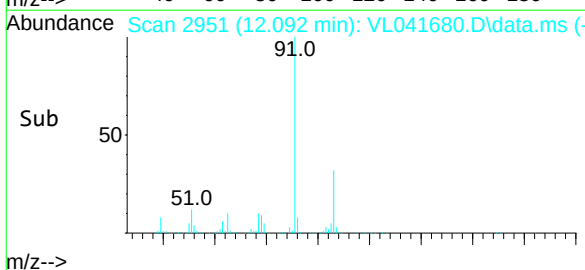
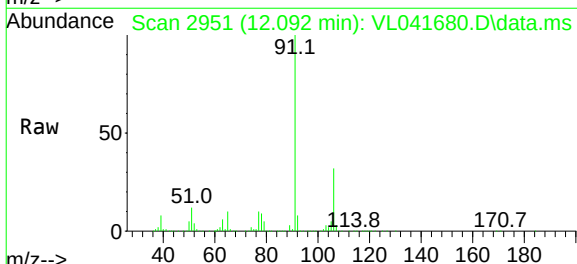
Manual Integrations  
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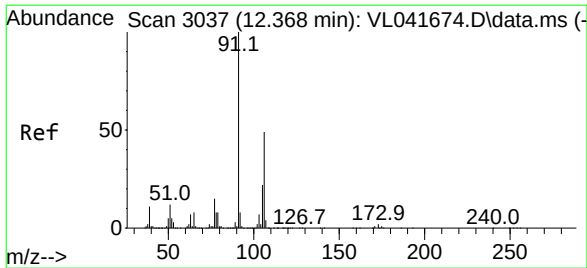
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#58  
Ethyl Benzene  
Concen: 15.550 ppbv  
RT: 12.092 min Scan# 2951  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 91 Resp: 5635176  
Ion Ratio Lower Upper  
91 100  
106 32.5 24.9 37.3





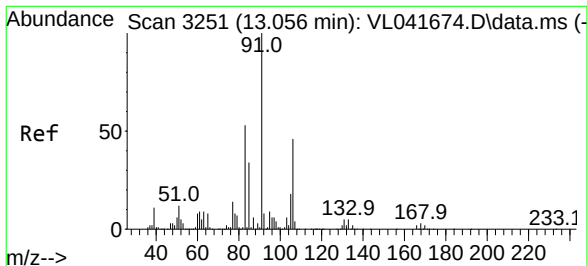
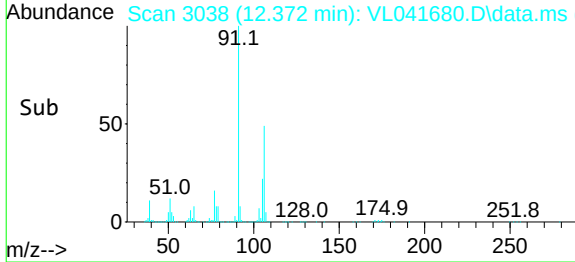
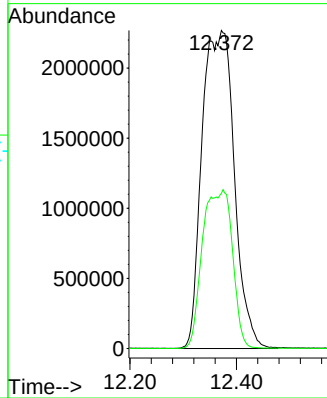
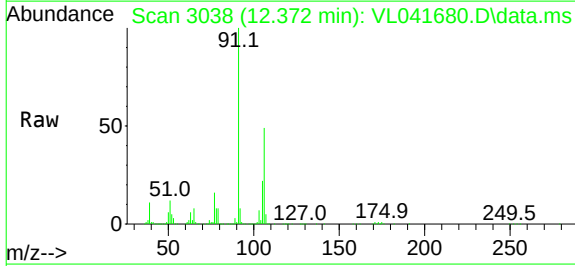
#59  
m/p-Xylene  
Concen: 29.406 ppbv m  
RT: 12.372 min Scan# 3037  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 91 Resp: 9532832  
Ion Ratio Lower Upper  
91 100  
106 46.3 36.9 55.3

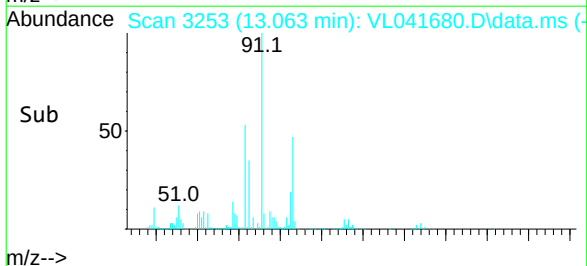
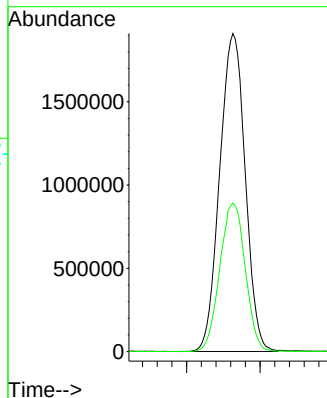
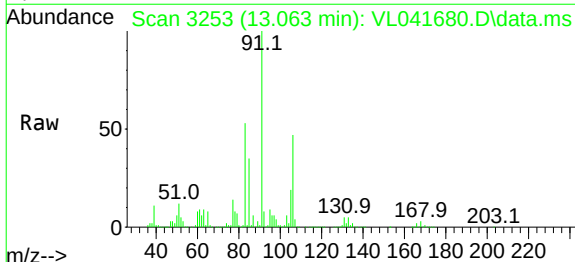
Manual Integrations  
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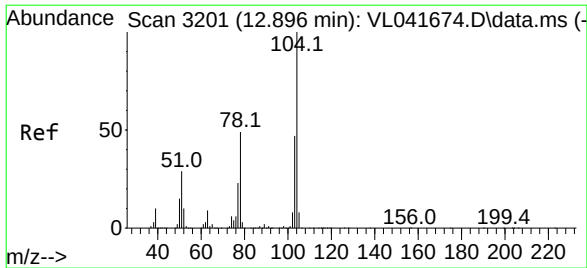
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#60  
o-Xylene  
Concen: 14.859 ppbv  
RT: 13.063 min Scan# 3253  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

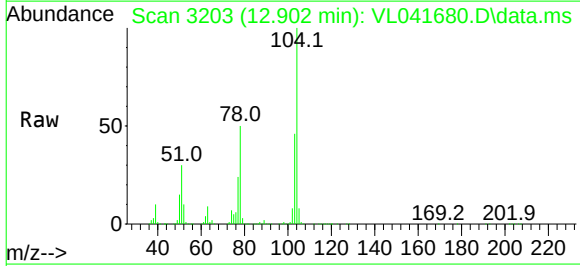
Tgt Ion: 91 Resp: 4598783  
Ion Ratio Lower Upper  
91 100  
106 46.7 23.2 69.6





#61  
Styrene  
Concen: 18.233 ppbv  
RT: 12.902 min Scan# 3201  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

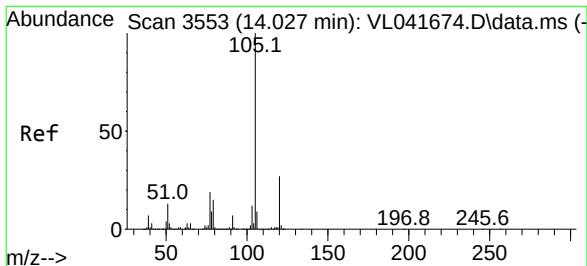
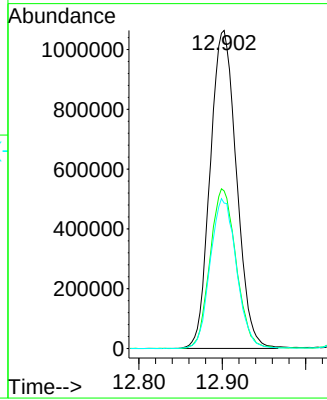
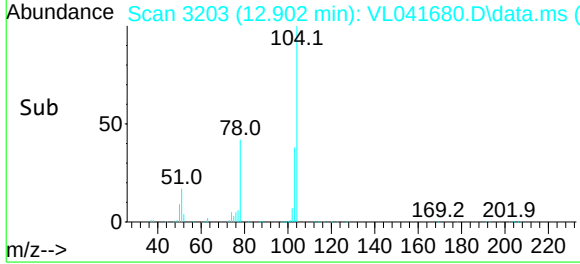
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



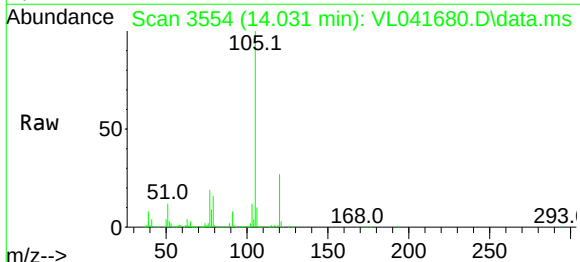
Tgt Ion:104 Resp: 2329096  
Ion Ratio Lower Upper  
104 100  
78 50.0 39.8 59.8  
103 47.1 37.4 56.0

Manual Integrations  
APPROVED

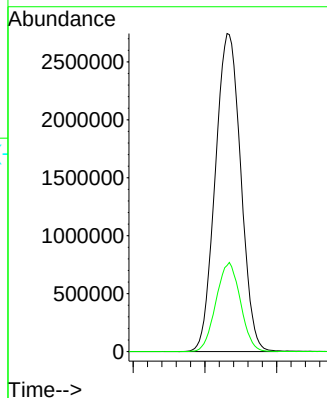
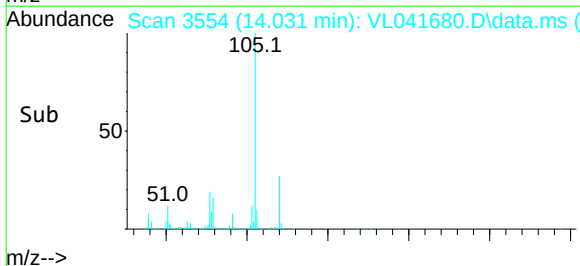
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

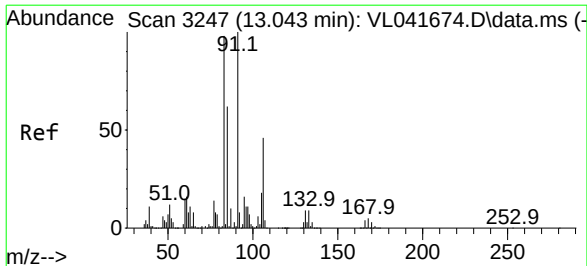


#62  
Isopropylbenzene  
Concen: 14.169 ppbv  
RT: 14.031 min Scan# 3554  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12



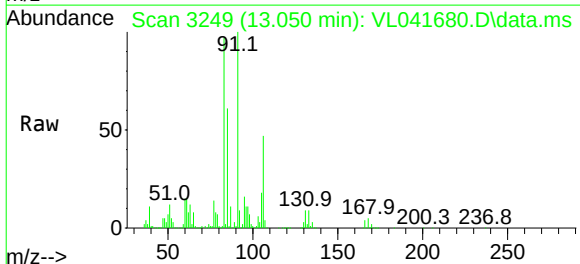
Tgt Ion:105 Resp: 6769619  
Ion Ratio Lower Upper  
105 100  
120 26.9 21.1 31.7





#63  
1,1,2,2-Tetrachloroethane  
Concen: 14.277 ppbv  
RT: 13.050 min Scan# 3249  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

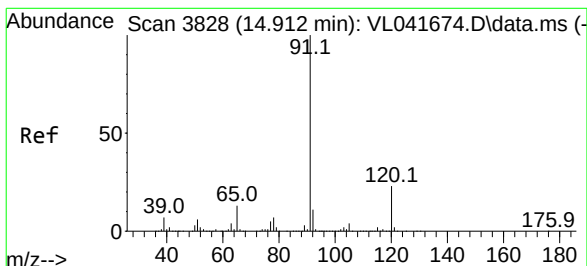
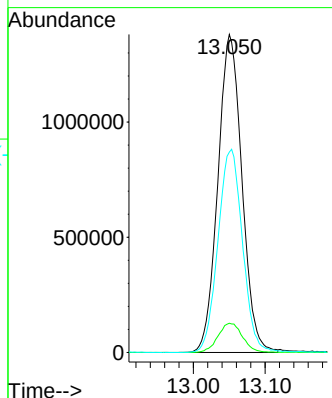
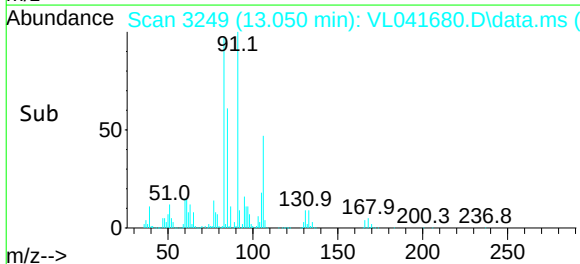
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion: 83 Resp: 3217179  
Ion Ratio Lower Upper  
83 100  
131 9.4 4.8 14.3  
85 65.5 32.6 98.0

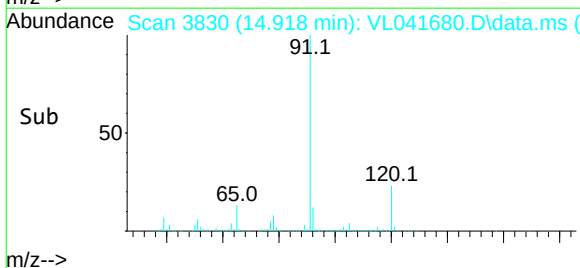
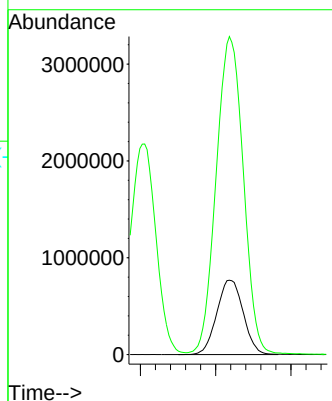
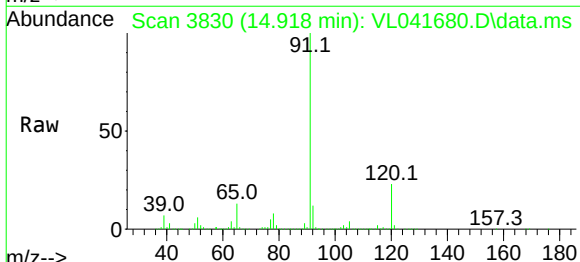
Manual Integrations  
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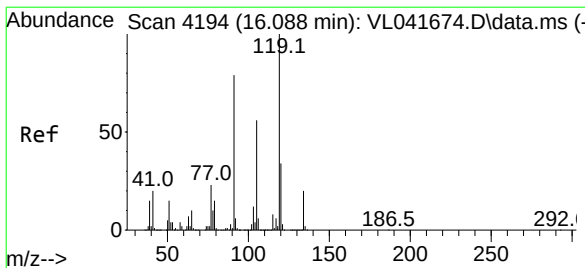
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#64  
n-propylbenzene  
Concen: 15.010 ppbv  
RT: 14.918 min Scan# 3830  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

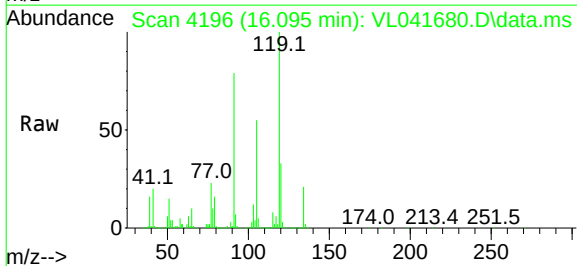
Tgt Ion:120 Resp: 1875181  
Ion Ratio Lower Upper  
120 100  
91 441.1 362.4 543.6





#65  
tert-Butylbenzene  
Concen: 14.149 ppbv  
RT: 16.095 min Scan# 4194  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

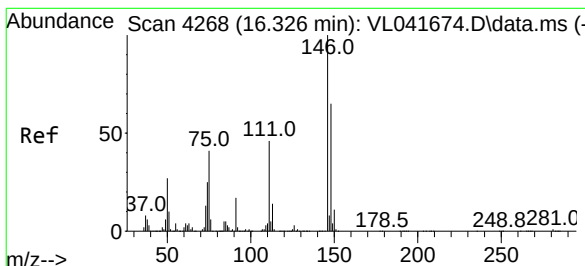
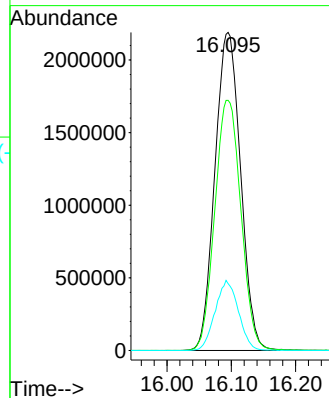
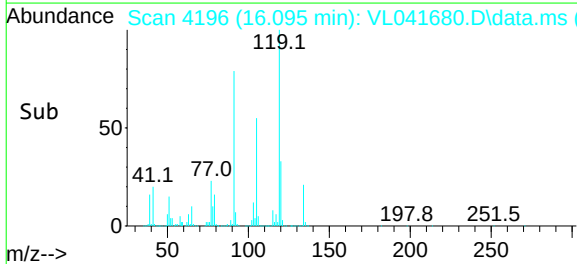
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion: 119 Resp: 6075642  
Ion Ratio Lower Upper  
119 100  
91 80.2 64.3 96.5  
134 20.0 15.8 23.8

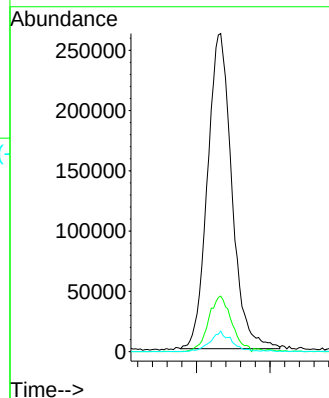
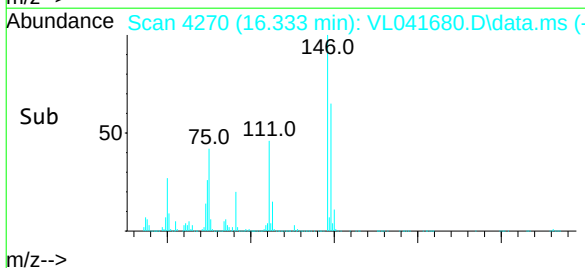
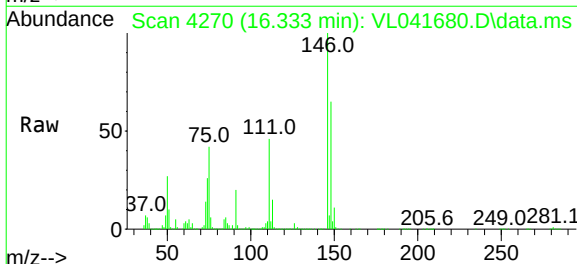
Manual Integrations  
APPROVED

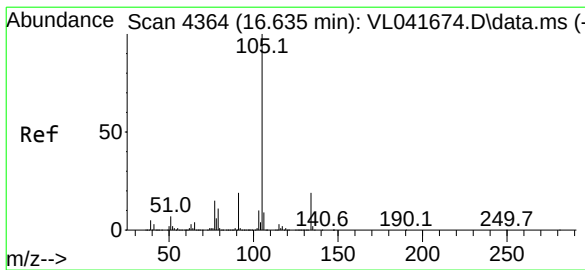
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#66  
Benzyl Chloride  
Concen: 19.466 ppbv  
RT: 16.333 min Scan# 4270  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

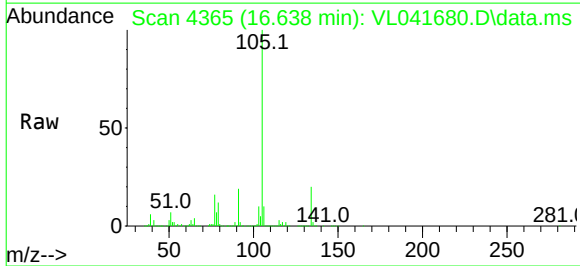
Tgt Ion: 91 Resp: 602019  
Ion Ratio Lower Upper  
91 100  
126 17.3 13.8 20.6  
128 5.8 4.3 6.5





#67  
sec-Butylbenzene  
Concen: 14.008 ppbv  
RT: 16.638 min Scan# 4364  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

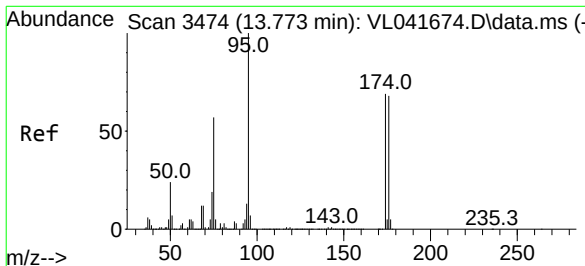
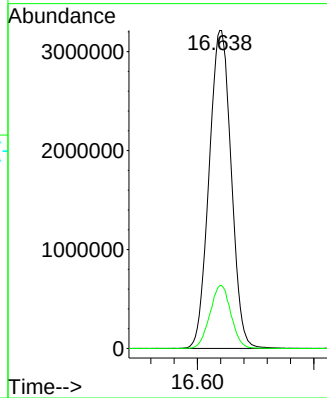
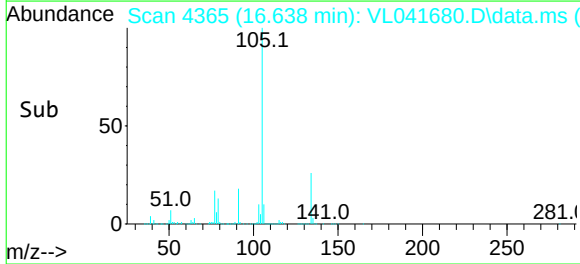
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



Tgt Ion: 105 Resp: 8477471  
Ion Ratio Lower Upper  
105 100  
134 18.9 14.6 22.0

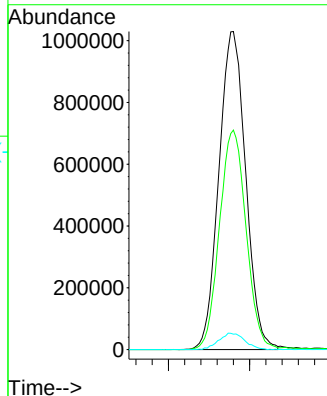
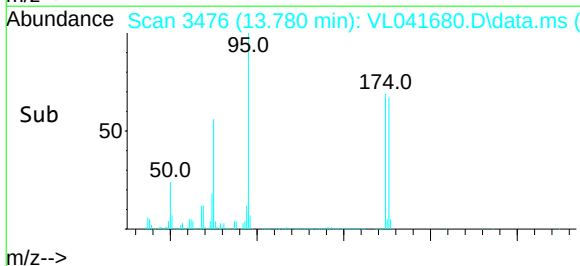
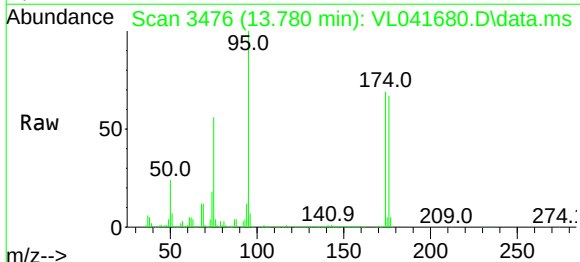
Manual Integrations  
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Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

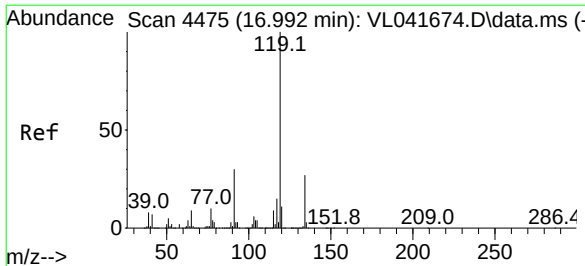


#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.746 ppbv  
RT: 13.780 min Scan# 3476  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 95 Resp: 2357958  
Ion Ratio Lower Upper  
95 100  
174 69.5 55.6 83.4  
175 5.1 4.2 6.2







#69

p-Isopropyltoluene

Concen: 14.562 ppbv

RT: 16.999 min Scan# 4477

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015

Tgt Ion: 119 Resp: 7127872

Ion Ratio Lower Upper

119 100

134 26.5 20.8 31.2

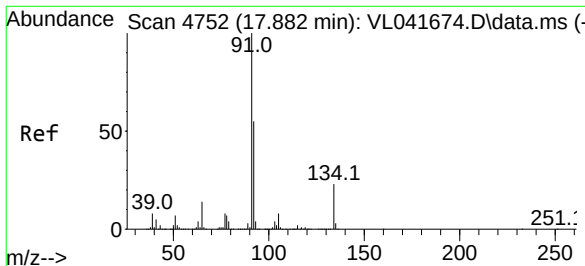
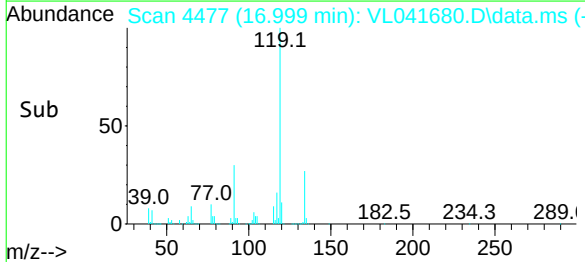
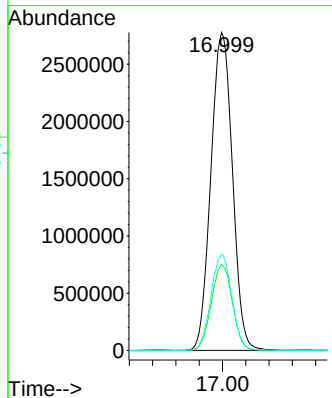
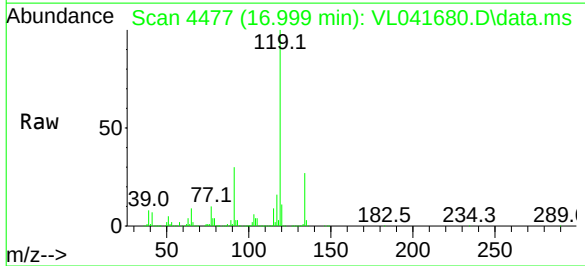
91 29.4 23.2 34.8

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#70

n-Butylbenzene

Concen: 14.625 ppbv

RT: 17.889 min Scan# 4754

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

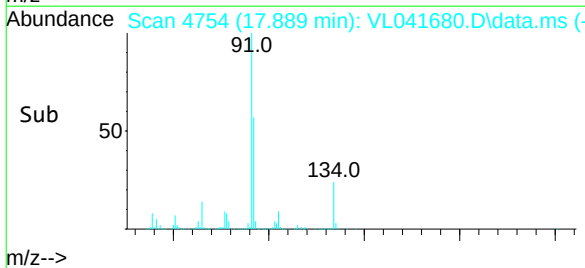
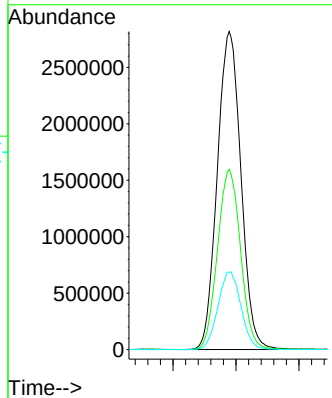
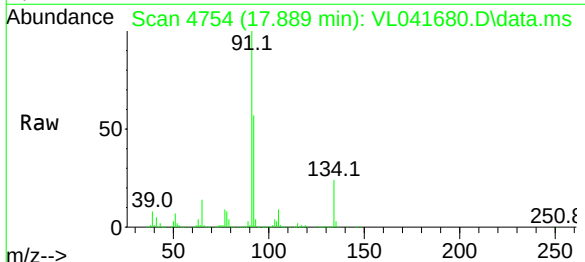
Tgt Ion: 91 Resp: 7337569

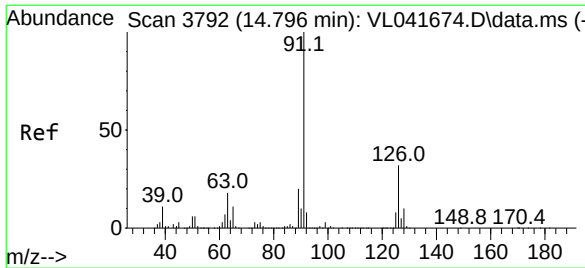
Ion Ratio Lower Upper

91 100

92 55.3 43.3 64.9

134 24.0 18.4 27.6





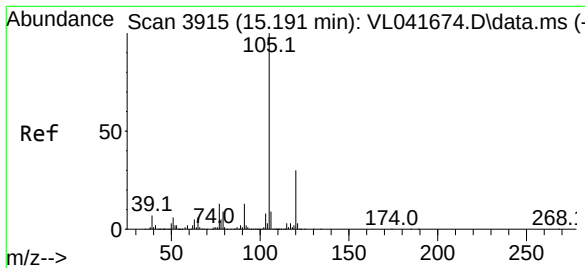
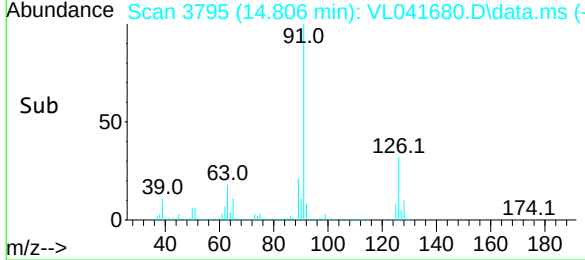
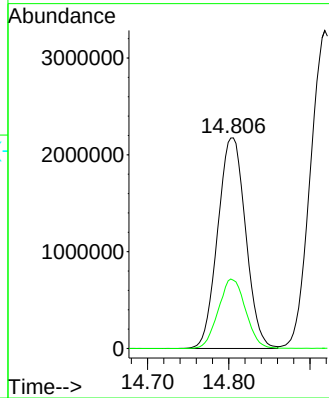
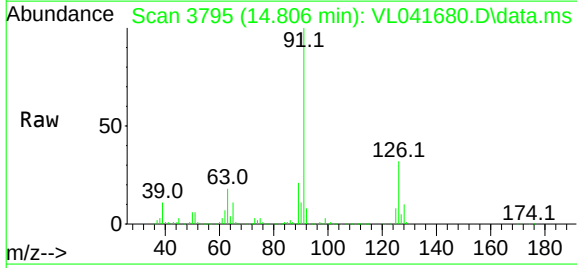
#71  
2-Chlorotoluene  
Concen: 15.038 ppbv  
RT: 14.806 min Scan# 3795  
Delta R.T. 0.010 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 91 Resp: 5195848  
Ion Ratio Lower Upper  
91 100  
126 32.2 12.8 51.0

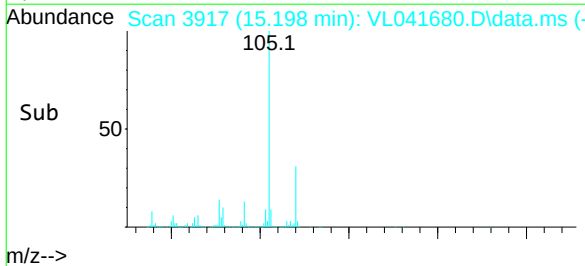
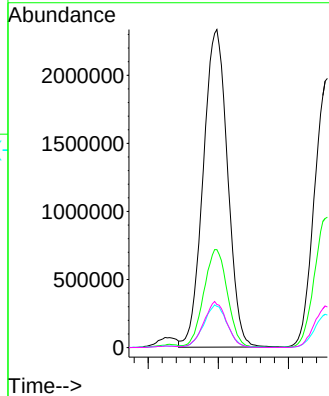
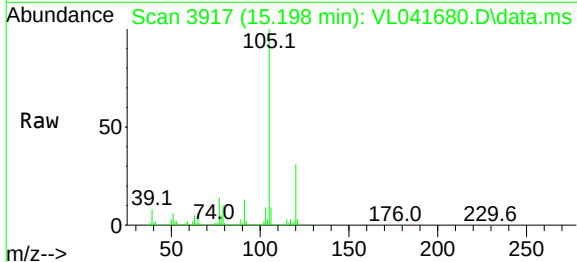
Manual Integrations  
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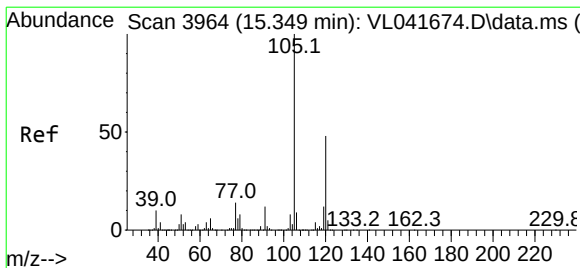
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#72  
4-Ethyltoluene  
Concen: 15.652 ppbv  
RT: 15.198 min Scan# 3917  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion:105 Resp: 5625512  
Ion Ratio Lower Upper  
105 100  
120 31.0 25.0 37.4  
91 13.7 10.6 15.8  
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 15.144 ppbv

RT: 15.355 min Scan# 39

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 4772611

Ion Ratio Lower Upper

105 100

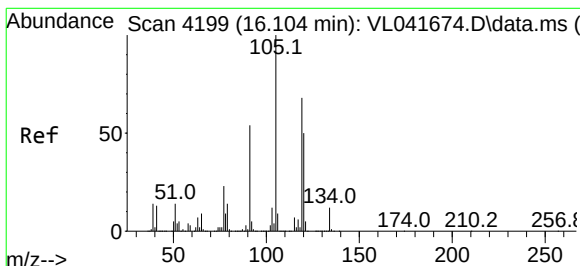
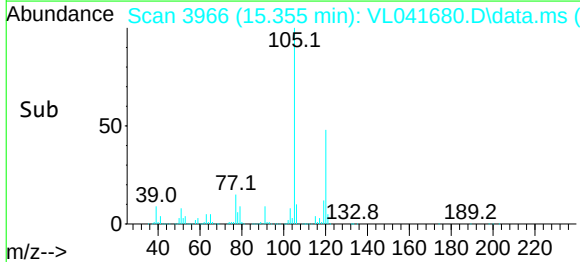
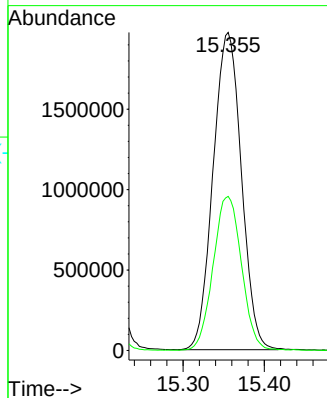
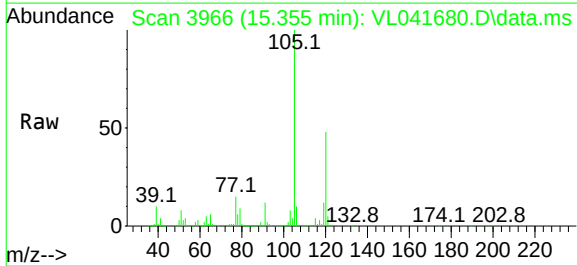
120 48.5 38.4 57.6

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#74

1,2,4-Trimethylbenzene

Concen: 14.183 ppbv

RT: 16.114 min Scan# 4202

Delta R.T. 0.010 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Tgt Ion:105 Resp: 5199497

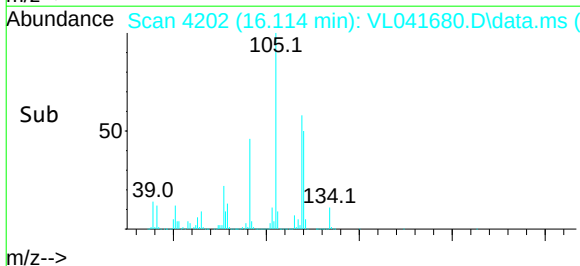
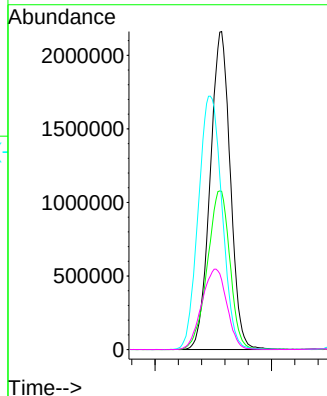
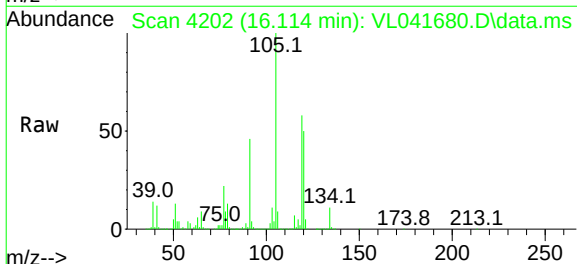
Ion Ratio Lower Upper

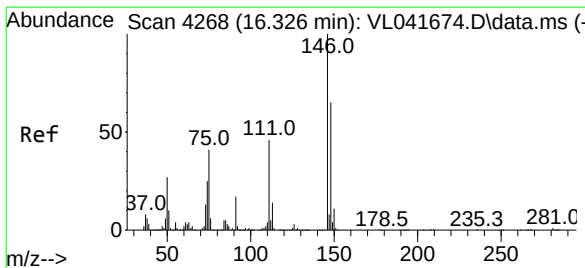
105 100

120 49.7 39.8 59.8

91 46.3 43.2 64.8

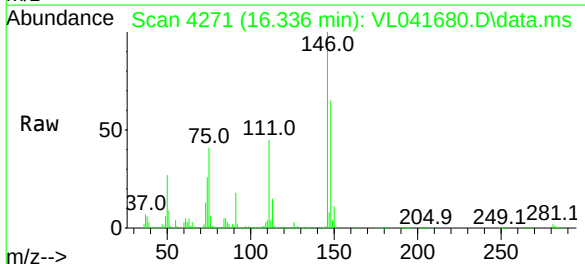
77 21.9 18.5 27.7





#75  
1,3-Dichlorobenzene  
Concen: 14.559 ppbv  
RT: 16.336 min Scan# 4268  
Delta R.T. 0.010 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

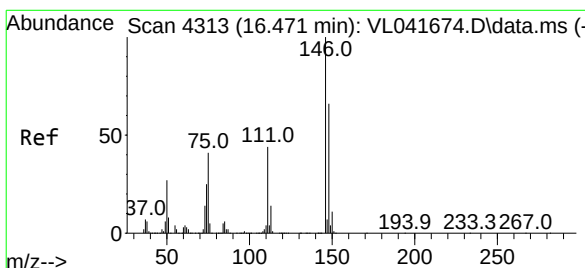
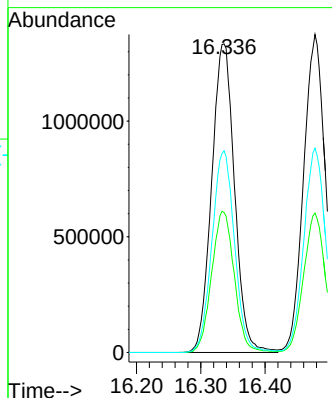
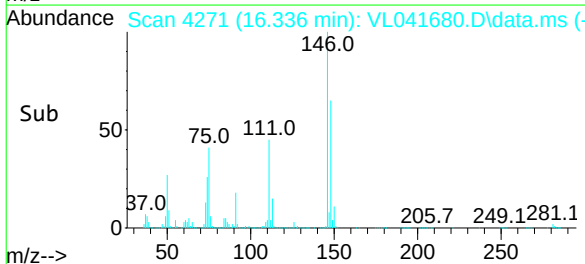
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



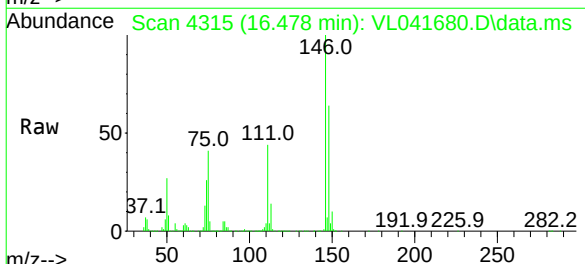
Tgt Ion:146 Resp: 3296952  
Ion Ratio Lower Upper  
146 100  
111 45.3 22.8 68.3  
148 64.7 32.4 97.0

Manual Integrations  
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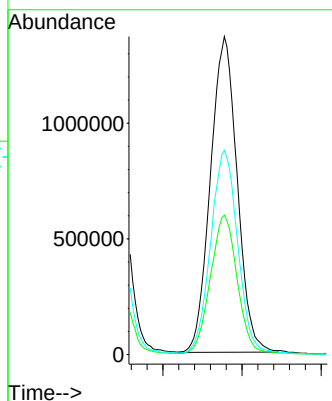
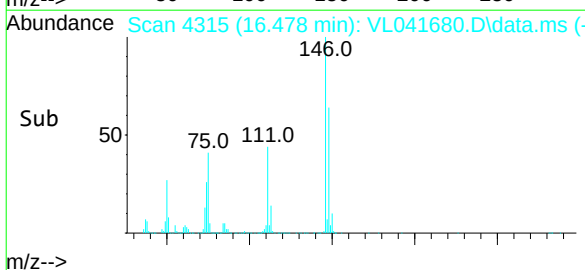
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

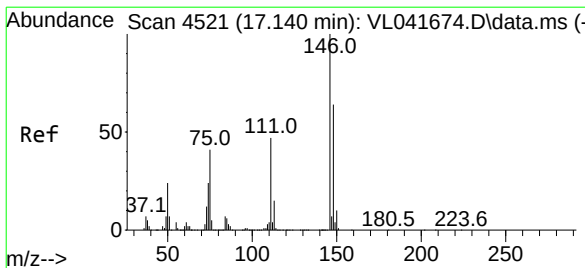


#76  
1,4-Dichlorobenzene  
Concen: 14.402 ppbv  
RT: 16.478 min Scan# 4315  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12



Tgt Ion:146 Resp: 3204404  
Ion Ratio Lower Upper  
146 100  
111 44.5 22.1 66.3  
148 66.2 33.3 99.8





#77

1,2-Dichlorobenzene

Concen: 14.336 ppbv

RT: 17.150 min Scan# 4521

Delta R.T. 0.010 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion:146 Resp: 3223835

Ion Ratio Lower Upper

146 100

111 46.5 23.4 70.3

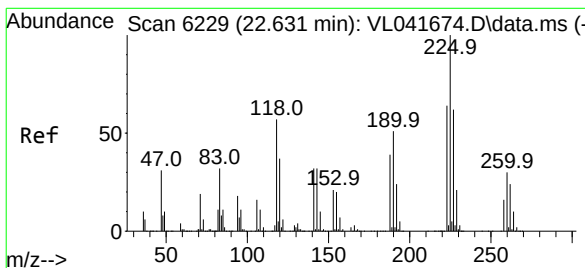
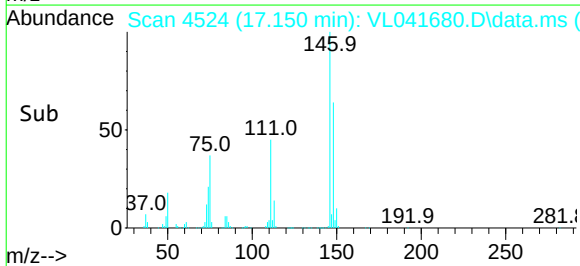
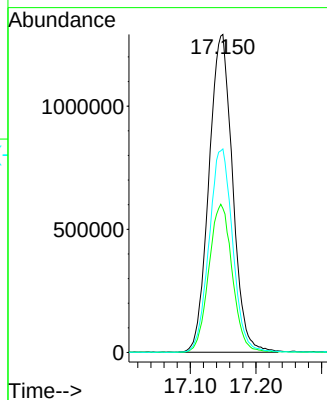
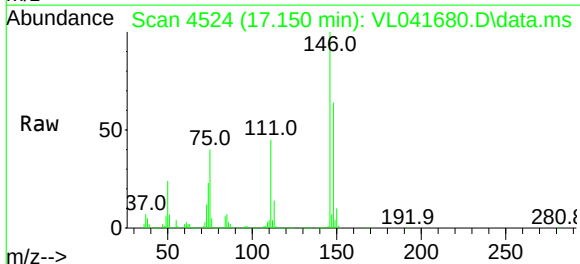
148 64.0 32.1 96.5

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#78

Hexachloro-1,3-Butadiene

Concen: 12.158 ppbv

RT: 22.638 min Scan# 6231

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

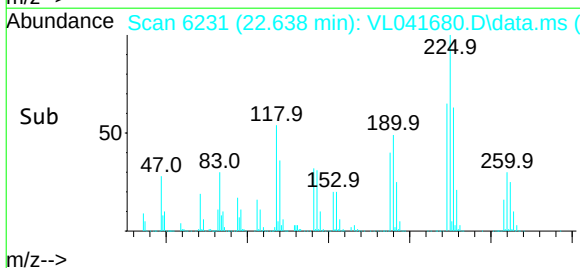
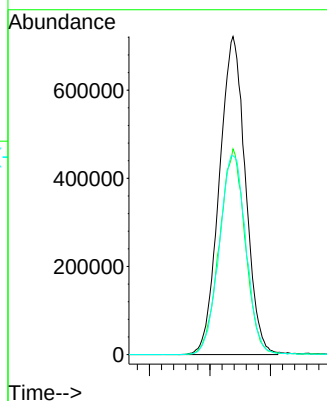
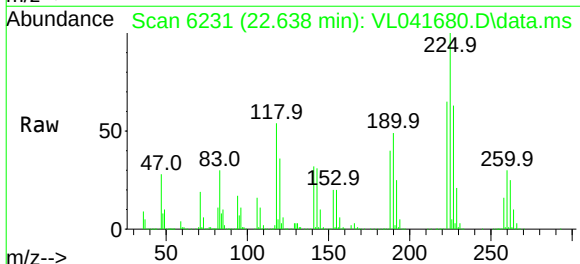
Tgt Ion:225 Resp: 2162938

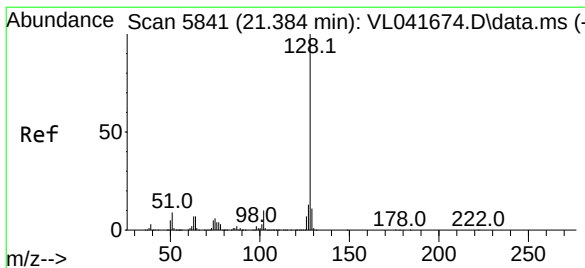
Ion Ratio Lower Upper

225 100

223 64.3 51.1 76.7

227 64.5 51.3 76.9





#79

Naphthalene

Concen: 19.355 ppbv

RT: 21.391 min Scan# 5843

Delta R.T. 0.007 min

Lab File: VL041680.D

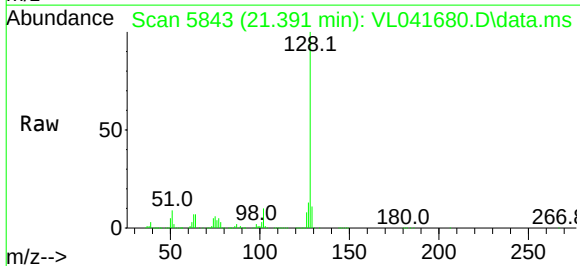
Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015



Tgt Ion:128 Resp: 4363777

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

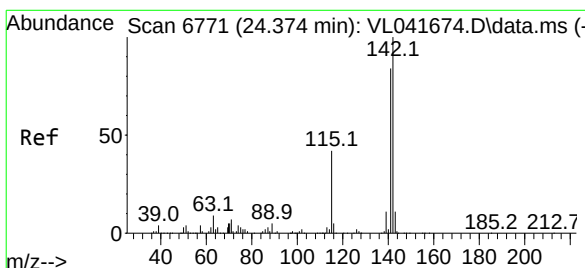
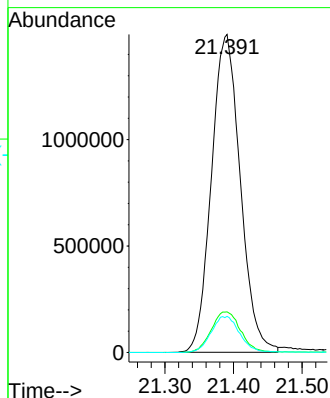
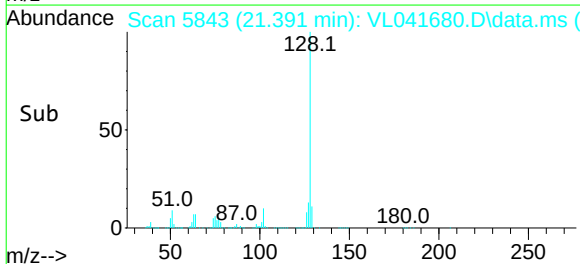
129 11.4 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#80

Naphthalene, 2-methyl-

Concen: 23.129 ppbv m

RT: 24.374 min Scan# 6771

Delta R.T. 0.000 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

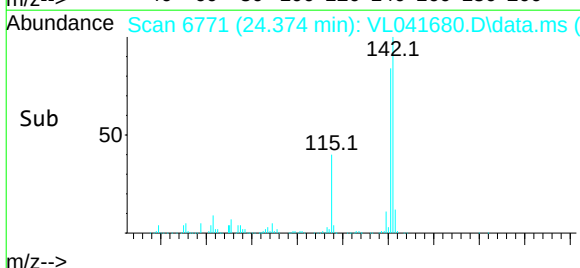
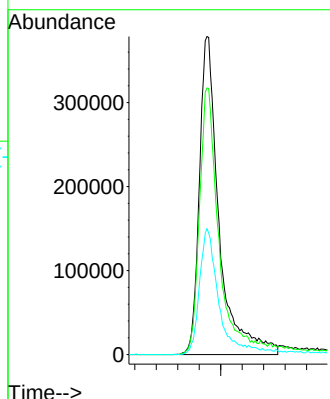
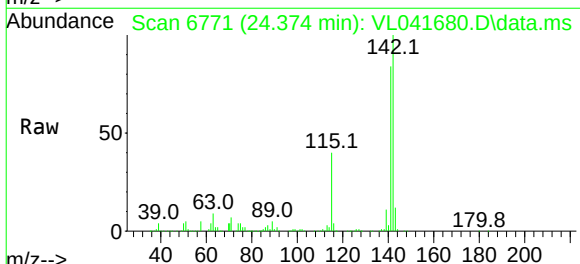
Tgt Ion:142 Resp: 967466

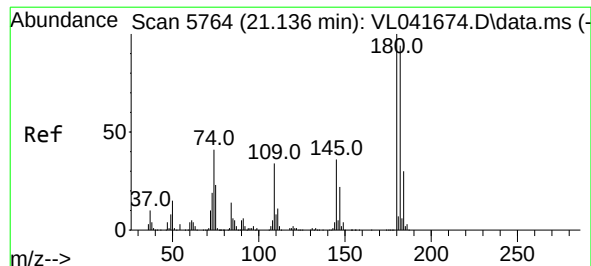
Ion Ratio Lower Upper

142 100

141 88.6 68.1 102.1

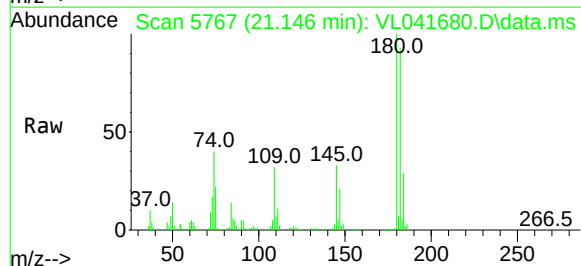
115 39.5 33.1 49.7





#81  
1,2,4-Trichlorobenzene  
Concen: 15.962 ppbv  
RT: 21.146 min Scan# 5764  
Delta R.T. 0.010 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

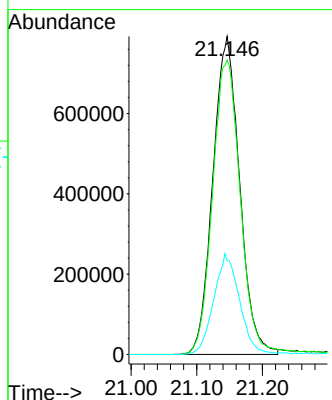
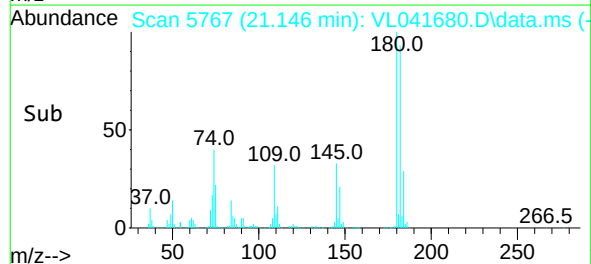
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion:180 Resp: 2238509  
Ion Ratio Lower Upper  
180 100  
182 98.0 78.2 117.2  
184 30.9 25.0 37.4

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041681.D  
 Acq On : 7 Nov 2024 14:51  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL110724

Quant Time: Nov 08 01:08:38 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Mahesh Dadoda 11/09/2024  
 Supervised By : Semsettin Yesilyurt 11/09/2024

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.192  | 49   | 1219218  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.655  | 114  | 3384840  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.468 | 117  | 3288136m | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.780 95 2384630 9.843 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.400%

#### Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.732 | 85  | 1794893 | 8.145  | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 2.677 | 51  | 1429744 | 9.000  | ppbv   | 99     |
| 4) Chloromethane              | 2.816 | 50  | 787537  | 9.359  | ppbv   | 97     |
| 5) Vinyl Chloride             | 2.922 | 62  | 774506  | 10.232 | ppbv   | 98     |
| 6) Bromomethane               | 3.121 | 94  | 379427  | 9.449  | ppbv   | 98     |
| 7) Chloroethane               | 3.198 | 64  | 265929  | 9.626  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane  | 2.861 | 85  | 1752691 | 8.910  | ppbv   | 100    |
| 9) Propene                    | 2.697 | 41  | 684685  | 9.892  | ppbv   | 100    |
| 10) Heptane                   | 7.581 | 43  | 1623259 | 10.465 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 3.562 | 101 | 1715400 | 8.937  | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluo... | 4.066 | 101 | 1286962 | 9.225  | ppbv   | 100    |
| 13) Ethanol                   | 3.253 | 45  | 41860m  | 9.876  | ppbv   |        |
| 14) Bromoethene               | 3.369 | 108 | 547085  | 9.755  | ppbv   | 97     |
| 15) Acetone                   | 3.468 | 43  | 1307631 | 8.715  | ppbv   | 98     |
| 16) 1,3-Butadiene             | 2.986 | 39  | 762546  | 10.072 | ppbv   | 98     |
| 17) tert-Butyl alcohol        | 3.877 | 59  | 1421835 | 10.798 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 3.880 | 96  | 589373  | 9.632  | ppbv   | 95     |
| 19) Isopropyl Alcohol         | 3.578 | 45  | 762103  | 10.626 | ppbv # | 97     |
| 20) Methylene Chloride        | 3.934 | 84  | 490767  | 8.888  | ppbv   | 98     |
| 21) Allyl Chloride            | 3.996 | 41  | 952403  | 10.272 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 4.446 | 96  | 602606  | 9.905  | ppbv   | 100    |
| 23) Vinyl Acetate             | 4.629 | 43  | 659846  | 9.976  | ppbv # | 95     |
| 24) 1,1-Dichloroethane        | 4.565 | 63  | 1246280 | 9.177  | ppbv   | 98     |
| 25) Ethyl Acetate             | 5.205 | 43  | 3059483 | 9.850  | ppbv   | 100    |
| 26) Hexane                    | 5.214 | 57  | 1221365 | 10.235 | ppbv   | 97     |
| 27) Carbon Disulfide          | 4.124 | 76  | 1427544 | 10.648 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether   | 4.587 | 73  | 764924  | 9.954  | ppbv   | 99     |
| 29) Chloroform                | 5.275 | 83  | 1805559 | 9.167  | ppbv   | 100    |
| 30) Cyclohexane               | 6.603 | 84  | 1036810 | 10.204 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene    | 5.079 | 61  | 1190854 | 10.374 | ppbv   | 100    |
| 32) 1,1,1-Trichloroethane     | 6.002 | 97  | 1797279 | 10.002 | ppbv   | 100    |
| 34) 2-Butanone                | 4.787 | 43  | 1751089 | 10.390 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 6.494 | 117 | 1829420 | 10.244 | ppbv   | 100    |
| 36) Benzene                   | 6.368 | 78  | 2560057 | 10.208 | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 5.809 | 62  | 1376089 | 9.726  | ppbv   | 99     |
| 38) Trichloroethene           | 7.291 | 130 | 1018788 | 10.577 | ppbv   | 99     |
| 39) 1,2-Dichloropropane       | 7.073 | 63  | 983477  | 9.923  | ppbv   | 96     |
| 40) 1,4-Dioxane               | 7.288 | 88  | 376201  | 10.579 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.555 | 42  | 1065202 | 11.067 | ppbv   | 99     |
| 42) Bromodichloromethane      | 7.253 | 83  | 1966589 | 10.002 | ppbv   | 100    |
| 43) Methyl Methacrylate       | 7.475 | 69  | 1010315 | 11.473 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 7.327 | 57  | 4253439 | 10.012 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 8.712 | 75  | 979763  | 12.176 | ppbv   | 98     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041681.D  
 Acq On : 7 Nov 2024 14:51  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL110724

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 01:08:38 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

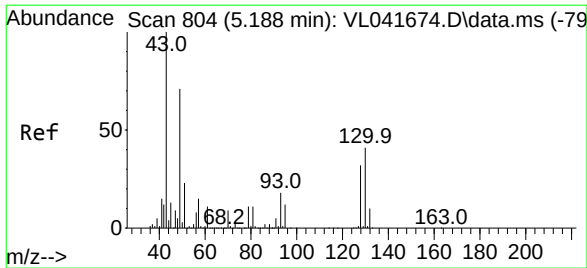
QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.143  | 75   | 1335370  | 11.555 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 8.899  | 97   | 1027960  | 9.583  | ppbv   | 99       |
| 48) Dibromochloromethane      | 9.712  | 129  | 1697504  | 10.410 | ppbv   | 100      |
| 49) Bromoform                 | 12.410 | 173  | 1467565  | 10.519 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.182  | 43   | 2720056  | 10.513 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.552  | 43   | 2131991  | 11.315 | ppbv # | 98       |
| 52) Tetrachloroethene         | 10.613 | 164  | 931693   | 10.901 | ppbv   | 97       |
| 53) Toluene                   | 9.220  | 91   | 2900278  | 10.997 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.011 | 107  | 1383939  | 11.043 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 11.510 | 131  | 1248422  | 9.206  | ppbv   | 99       |
| 57) Chlorobenzene             | 11.529 | 112  | 2237120  | 9.199  | ppbv   | 100      |
| 58) Ethyl Benzene             | 12.092 | 91   | 3855683  | 10.696 | ppbv   | 99       |
| 59) m/p-Xylene                | 12.375 | 91   | 6465658m | 20.029 | ppbv   |          |
| 60) o-Xylene                  | 13.060 | 91   | 3103973  | 10.084 | ppbv   | 100      |
| 61) Styrene                   | 12.896 | 104  | 1535856  | 12.089 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.031 | 105  | 4605291  | 9.687  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.050 | 83   | 2141628  | 9.458  | ppbv   | 100      |
| 64) n-propylbenzene           | 14.918 | 120  | 1242370  | 9.983  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 16.092 | 119  | 4128160  | 9.661  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.326 | 91   | 333479   | 10.145 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 16.638 | 105  | 5771671  | 9.584  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 16.998 | 119  | 4841188  | 9.944  | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.889 | 91   | 4961330  | 9.960  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 14.799 | 91   | 3477879  | 10.121 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.194 | 105  | 3765544  | 10.522 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.352 | 105  | 3164645  | 10.077 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.111 | 105  | 3509579  | 9.621  | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 16.333 | 146  | 2153016  | 9.530  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.474 | 146  | 2087766  | 9.578  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.146 | 146  | 2076942  | 9.280  | ppbv # | 70       |
| 78) Hexachloro-1,3-Butadiene  | 22.635 | 225  | 1380777  | 7.801  | ppbv   | 100      |
| 79) Naphthalene               | 21.384 | 128  | 2753473  | 12.229 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.374 | 142  | 582436   | 11.866 | ppbv   | 93       |
| 81) 1,2,4-Trichlorobenzene    | 21.143 | 180  | 1413820  | 9.985  | ppbv   | 100      |

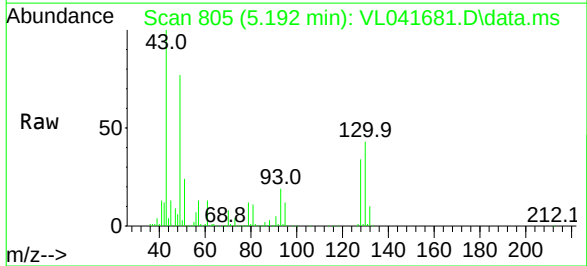
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.192 min Scan# 804  
Delta R.T. 0.004 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

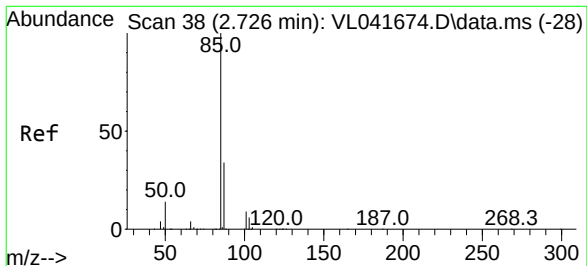
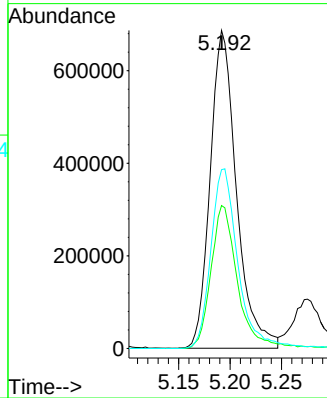
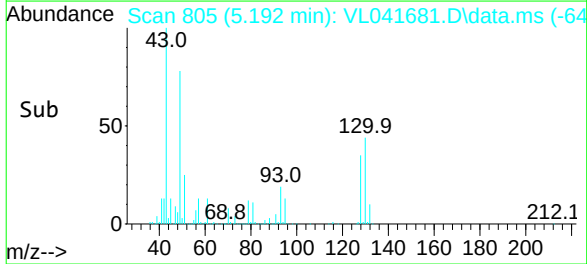
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



Tgt Ion: 49 Resp: 1219218  
Ion Ratio Lower Upper  
49 100  
128 46.0 23.8 71.2  
130 59.2 30.1 90.5

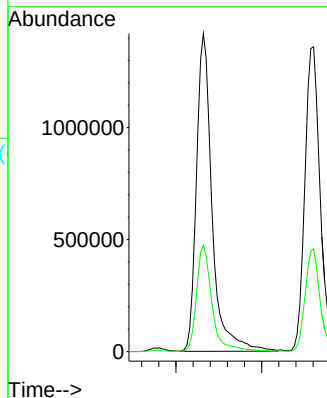
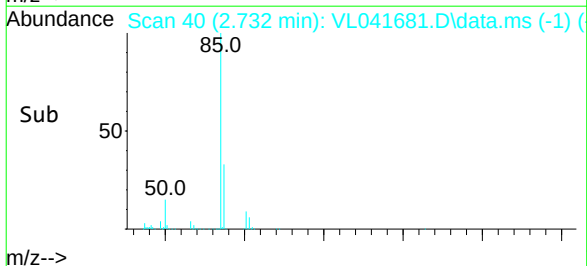
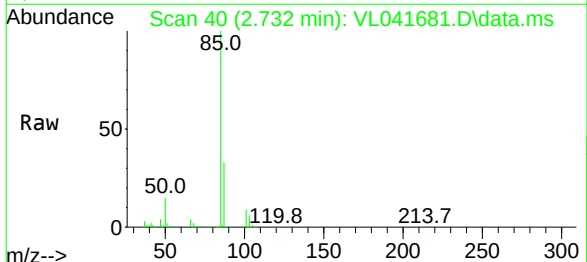
Manual Integrations  
APPROVED

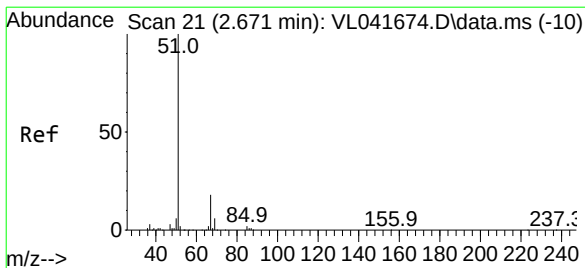
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#2  
Dichlorodifluoromethane  
Concen: 8.145 ppbv  
RT: 2.732 min Scan# 40  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

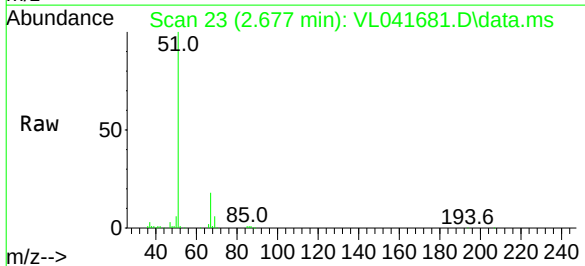
Tgt Ion: 85 Resp: 1794893  
Ion Ratio Lower Upper  
85 100  
87 33.5 26.8 40.2





#3  
Chlorodifluoromethane  
Concen: 9.000 ppbv  
RT: 2.677 min Scan# 23  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

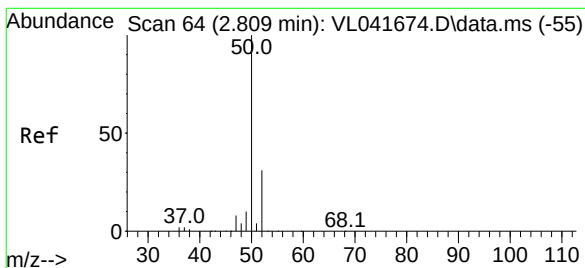
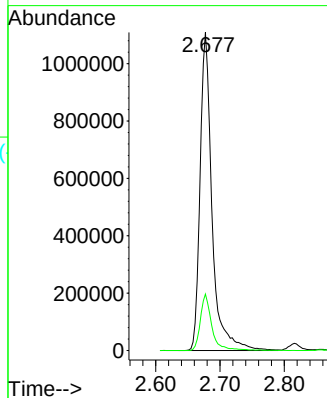
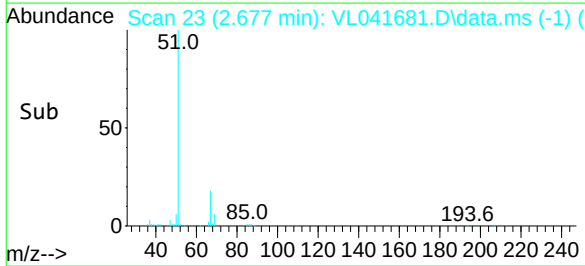
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



Tgt Ion: 51 Resp: 1429744  
Ion Ratio Lower Upper  
51 100  
67 17.1 13.9 20.9

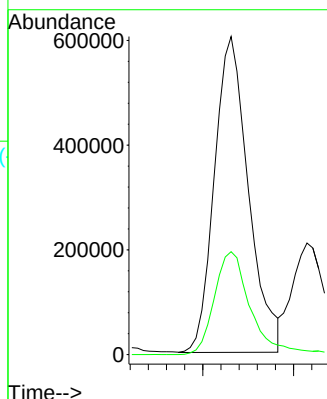
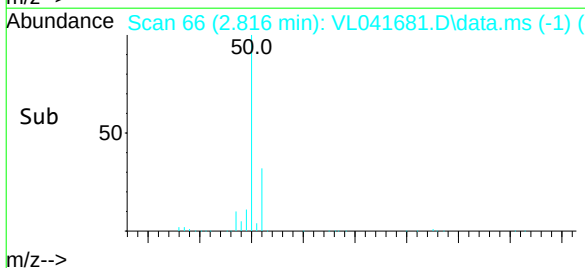
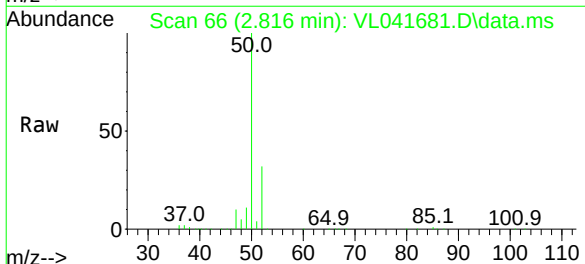
Manual Integrations  
APPROVED

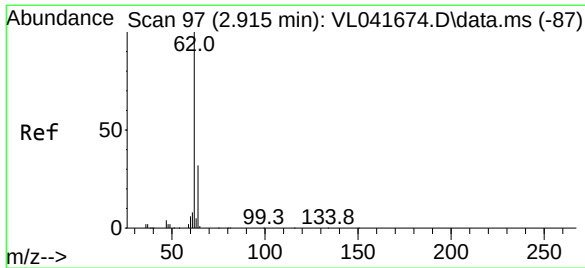
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#4  
Chloromethane  
Concen: 9.359 ppbv  
RT: 2.816 min Scan# 66  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 50 Resp: 787537  
Ion Ratio Lower Upper  
50 100  
52 32.6 24.9 37.3





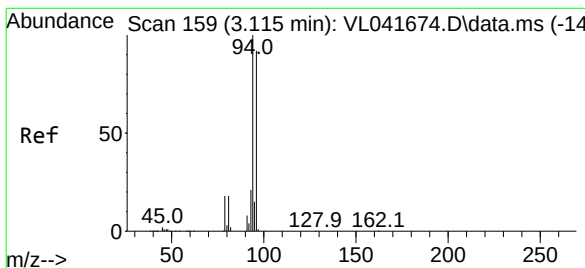
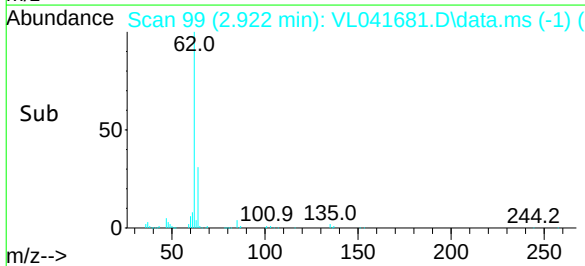
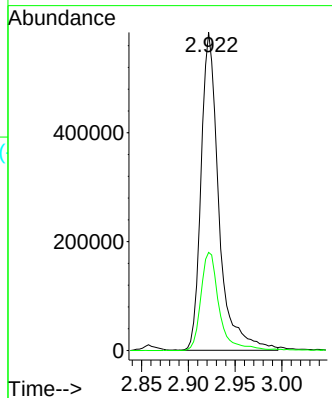
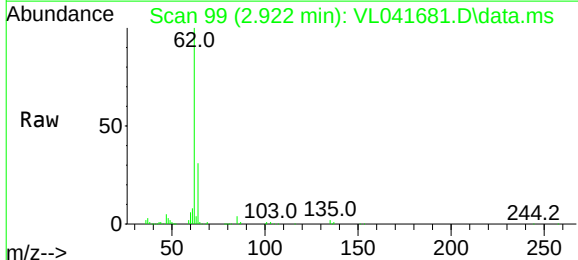
#5  
Vinyl Chloride  
Concen: 10.232 ppbv  
RT: 2.922 min Scan# 99  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

Tgt Ion: 62 Resp: 774506  
Ion Ratio Lower Upper  
62 100  
64 30.9 25.4 38.2

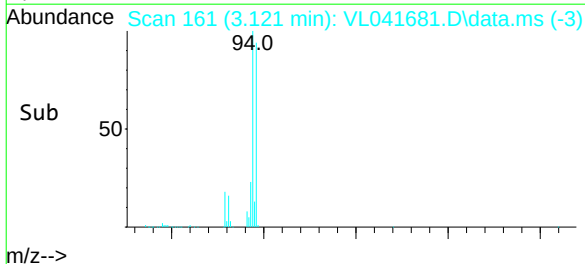
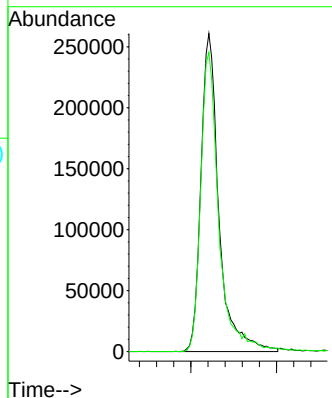
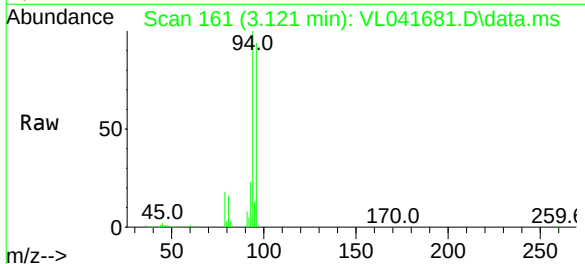
Manual Integrations  
APPROVED

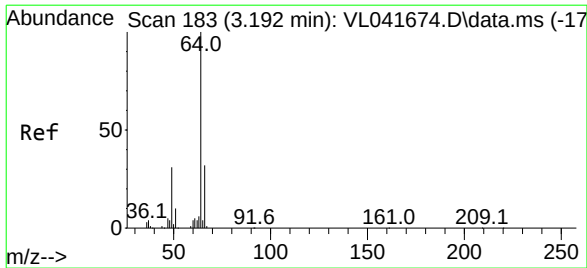
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#6  
Bromomethane  
Concen: 9.449 ppbv  
RT: 3.121 min Scan# 161  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

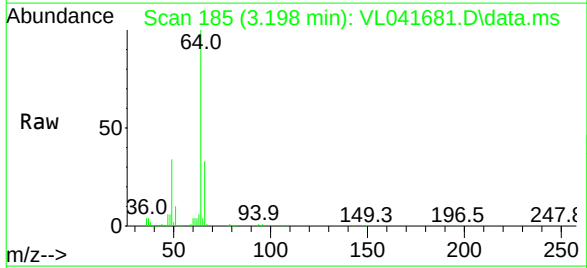
Tgt Ion: 94 Resp: 379427  
Ion Ratio Lower Upper  
94 100  
96 94.1 73.4 110.2





#7  
Chloroethane  
Concen: 9.626 ppbv  
RT: 3.198 min Scan# 18  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

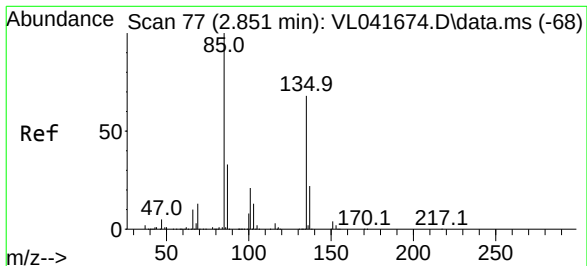
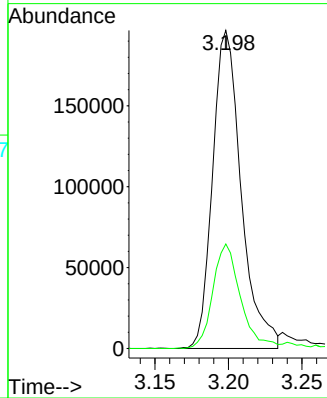
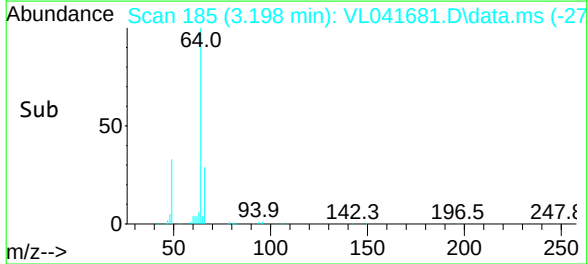
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



Tgt Ion: 64 Resp: 265929  
Ion Ratio Lower Upper  
64 100  
66 32.9 25.9 38.9

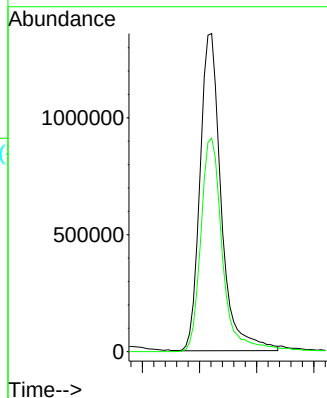
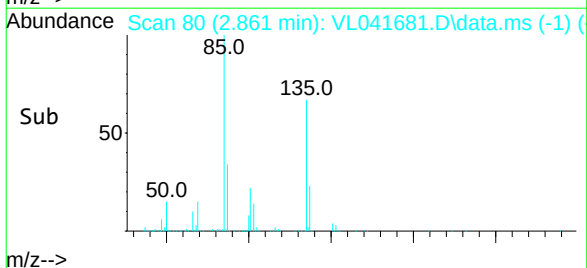
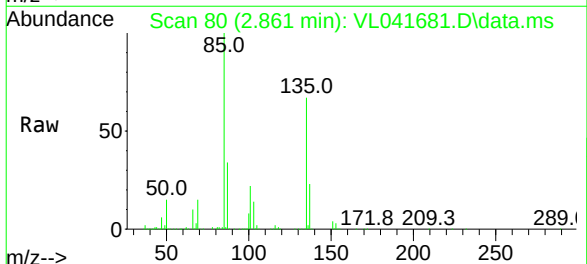
Manual Integrations  
APPROVED

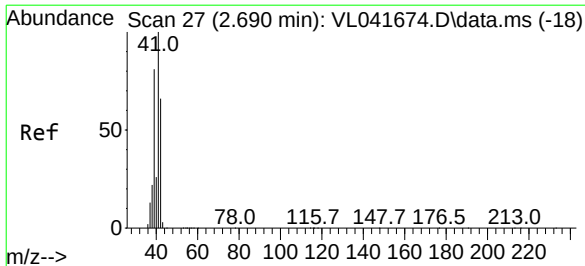
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#8  
Dichlorotetrafluoroethane  
Concen: 8.910 ppbv  
RT: 2.861 min Scan# 80  
Delta R.T. 0.010 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 85 Resp: 1752691  
Ion Ratio Lower Upper  
85 100  
135 69.6 55.5 83.3





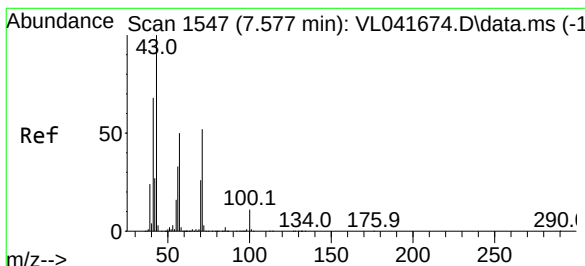
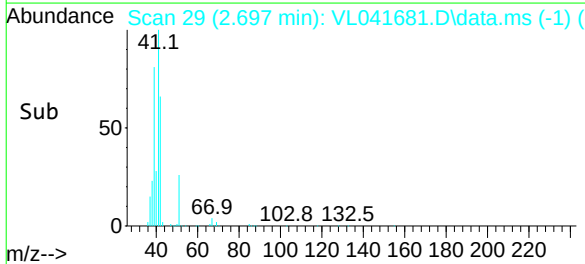
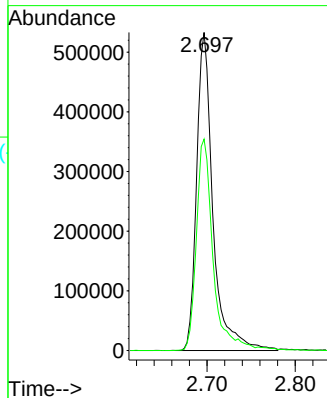
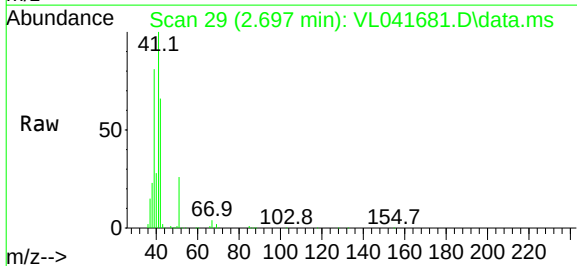
#9  
Propene  
Concen: 9.892 ppbv  
RT: 2.697 min Scan# 29  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

Tgt Ion: 41 Resp: 684685  
Ion Ratio Lower Upper  
41 100  
42 68.9 55.0 82.4

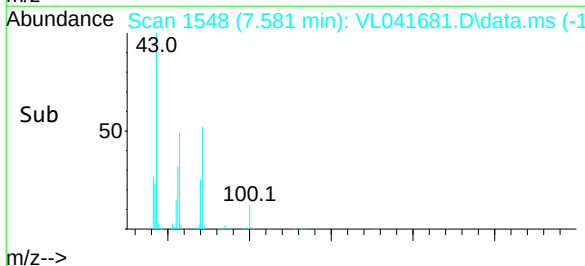
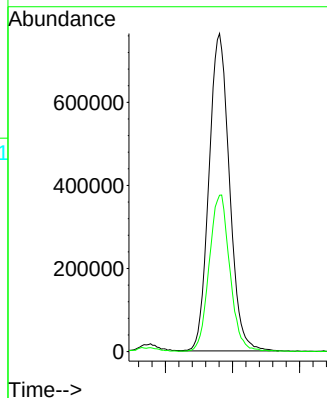
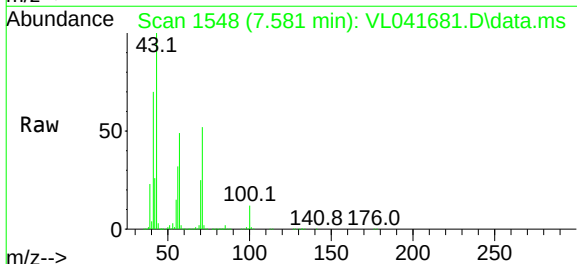
Manual Integrations  
APPROVED

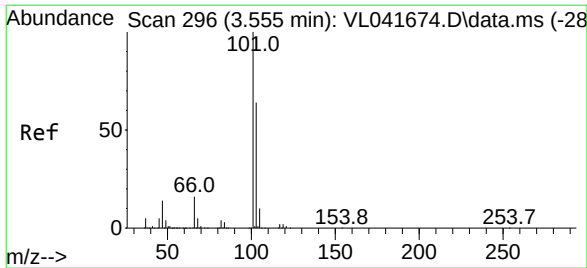
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#10  
Heptane  
Concen: 10.465 ppbv  
RT: 7.581 min Scan# 1548  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 43 Resp: 1623259  
Ion Ratio Lower Upper  
43 100  
57 49.9 40.0 60.0





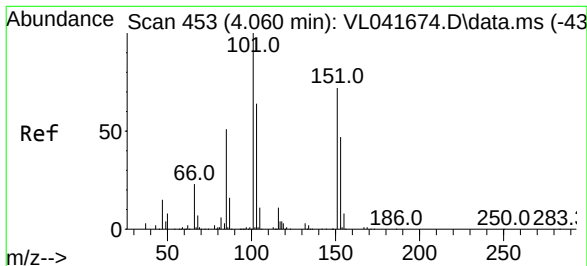
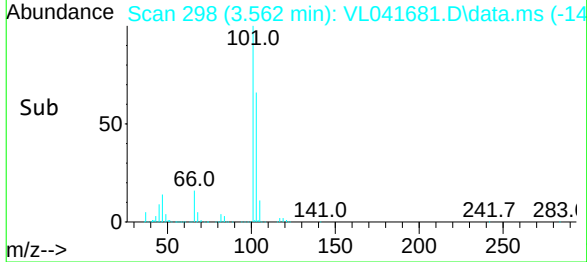
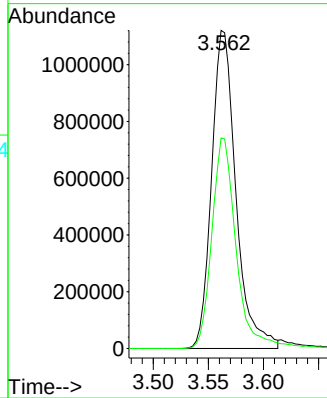
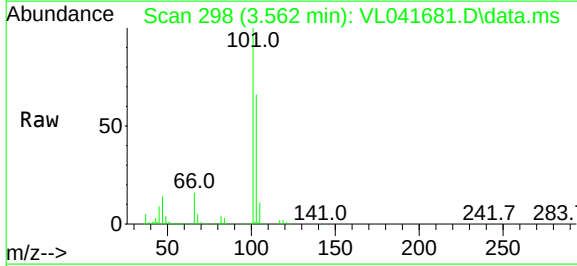
#11  
Trichlorofluoromethane  
Concen: 8.937 ppbv  
RT: 3.562 min Scan# 296  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

Tgt Ion:101 Resp: 1715400  
Ion Ratio Lower Upper  
101 100  
103 66.2 51.0 76.6

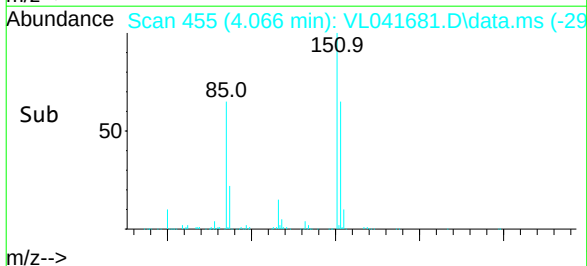
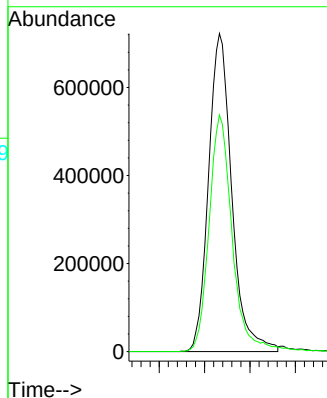
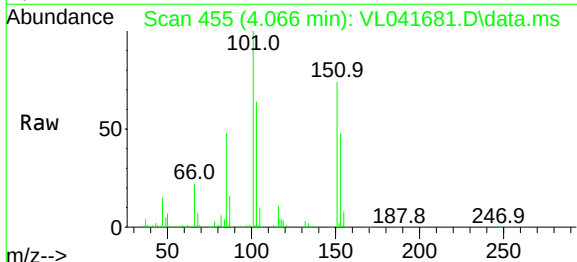
Manual Integrations  
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Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

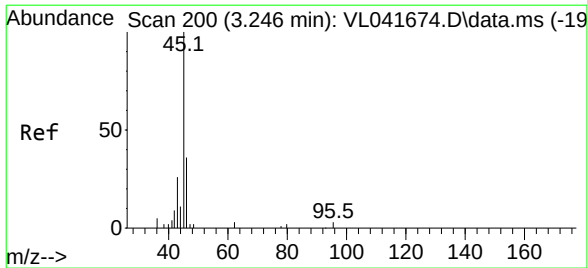


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.225 ppbv  
RT: 4.066 min Scan# 455  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion:101 Resp: 1286962  
Ion Ratio Lower Upper  
101 100  
151 74.1 59.1 88.7

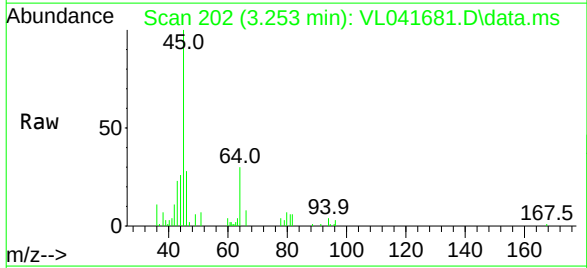






#13  
Ethanol  
Concen: 9.876 ppbv m  
RT: 3.253 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

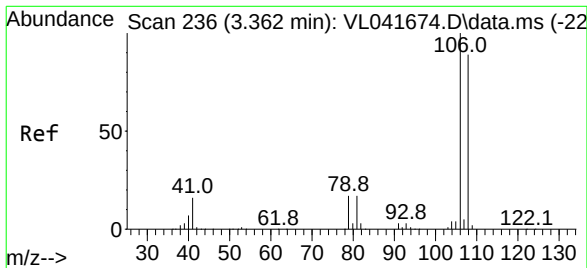
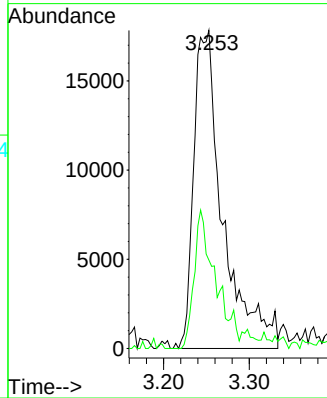
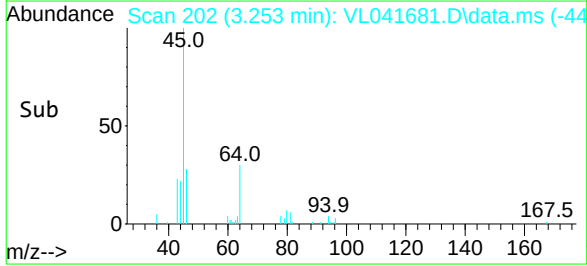
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



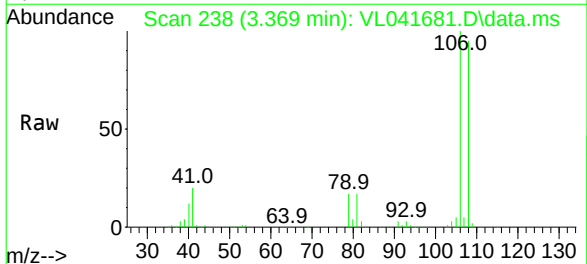
Tgt Ion: 45 Resp: 41860  
Ion Ratio Lower Upper  
45 100  
46 0.0 13.8 55.2#

Manual Integrations  
APPROVED

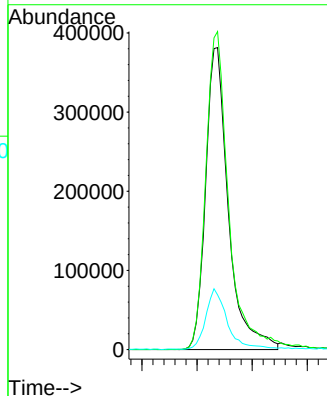
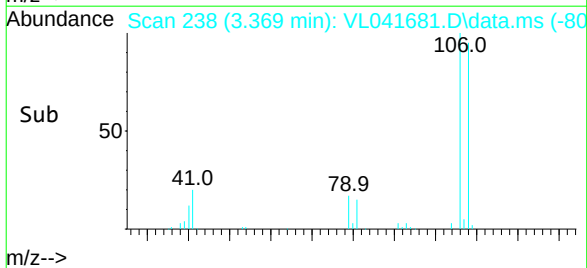
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

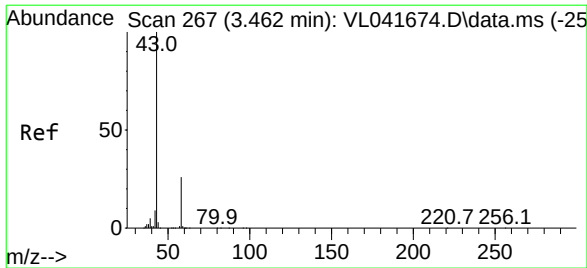


#14  
Bromoethene  
Concen: 9.755 ppbv  
RT: 3.369 min Scan# 238  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



Tgt Ion:108 Resp: 547085  
Ion Ratio Lower Upper  
108 100  
106 107.9 88.6 133.0  
79 20.5 15.6 23.4





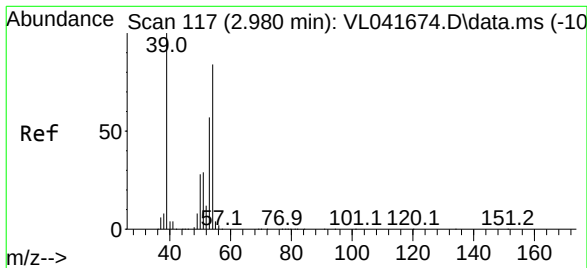
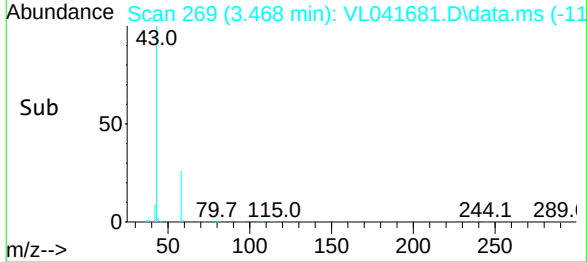
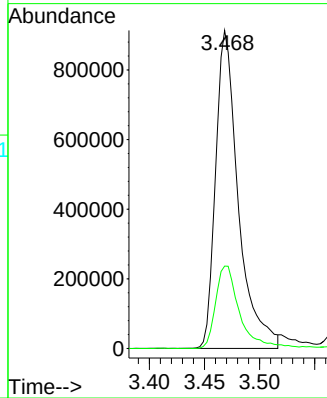
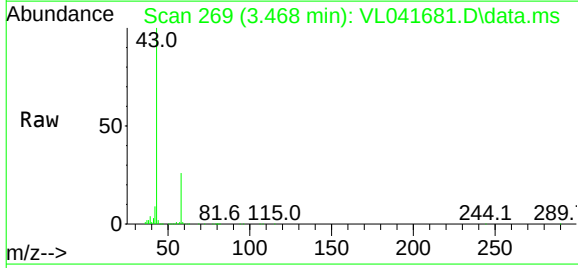
#15  
Acetone  
Concen: 8.715 ppbv  
RT: 3.468 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

Tgt Ion: 43 Resp: 1307631  
Ion Ratio Lower Upper  
43 100  
58 27.9 21.4 32.0

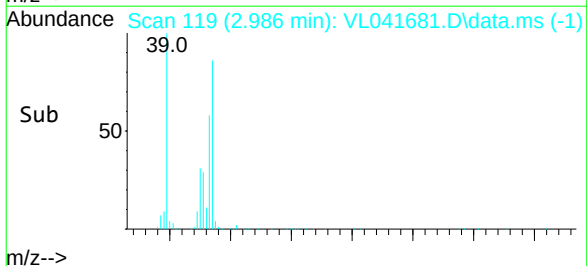
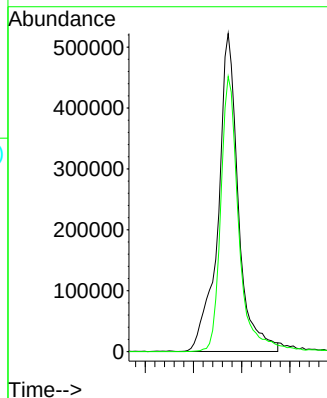
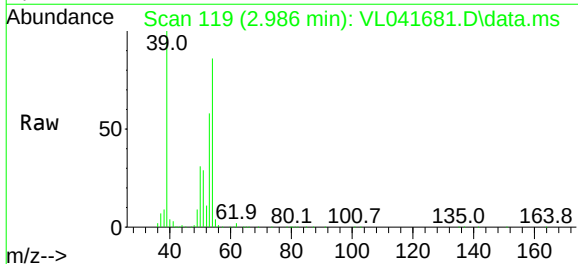
Manual Integrations  
APPROVED

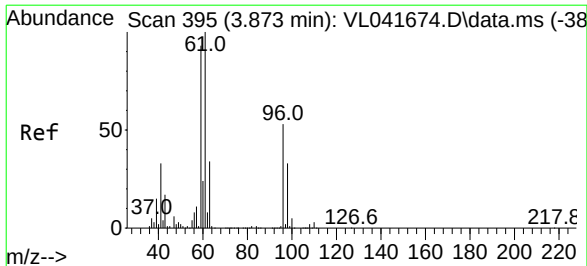
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#16  
1,3-Butadiene  
Concen: 10.072 ppbv  
RT: 2.986 min Scan# 119  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

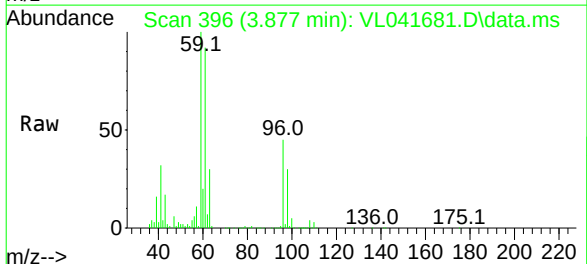
Tgt Ion: 39 Resp: 762546  
Ion Ratio Lower Upper  
39 100  
54 78.2 61.3 91.9





#17  
tert-Butyl alcohol  
Concen: 10.798 ppbv  
RT: 3.877 min Scan# 395  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

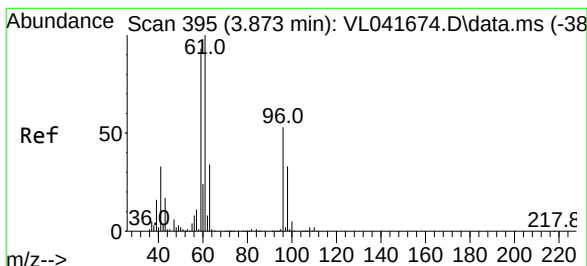
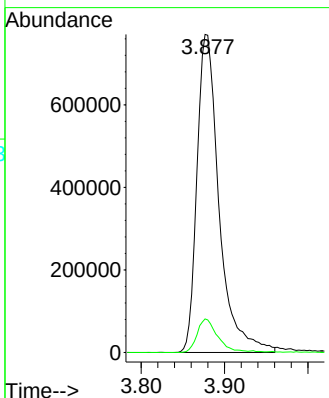
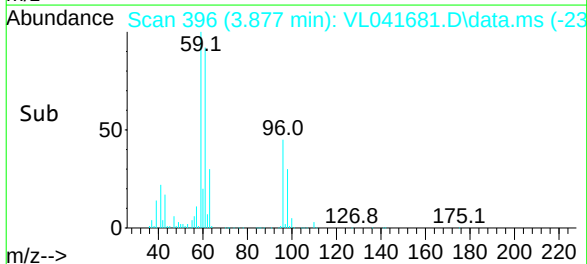
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



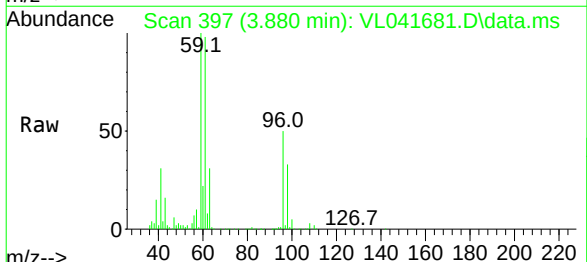
Tgt Ion: 59 Resp: 1421835  
Ion Ratio Lower Upper  
59 100  
57 10.3 8.5 12.7

Manual Integrations  
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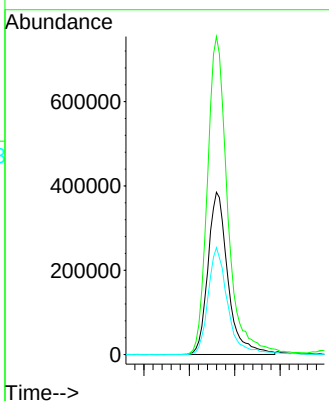
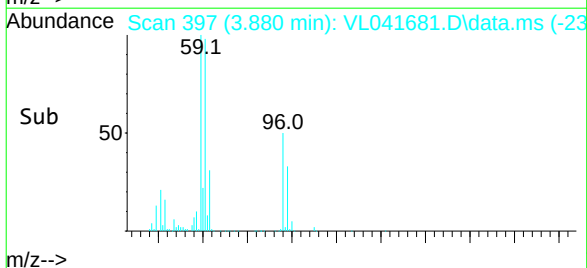
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

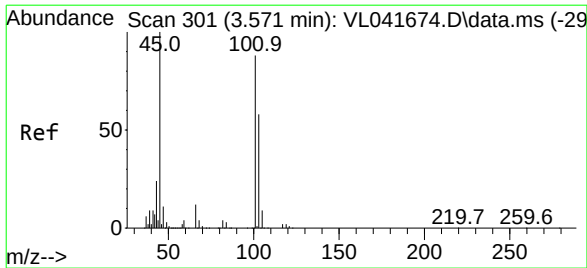


#18  
1,1-Dichloroethene  
Concen: 9.632 ppbv  
RT: 3.880 min Scan# 397  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



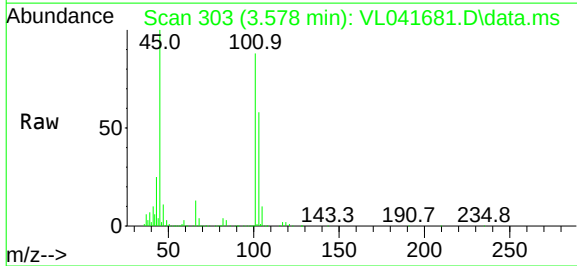
Tgt Ion: 96 Resp: 589373  
Ion Ratio Lower Upper  
96 100  
61 196.0 150.7 226.1  
98 65.9 49.4 74.2





#19  
Isopropyl Alcohol  
Concen: 10.626 ppbv  
RT: 3.578 min Scan# 301  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

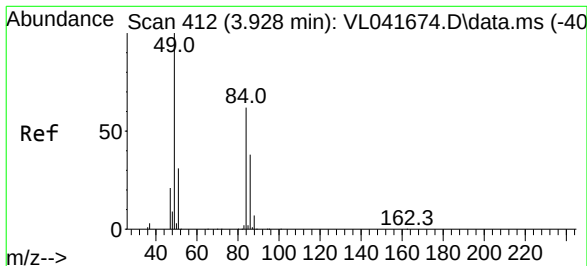
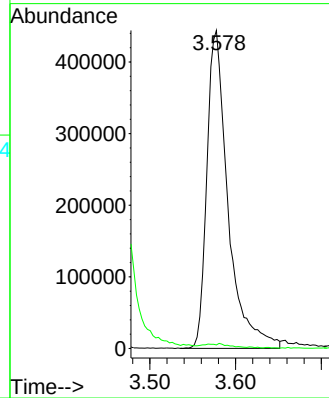
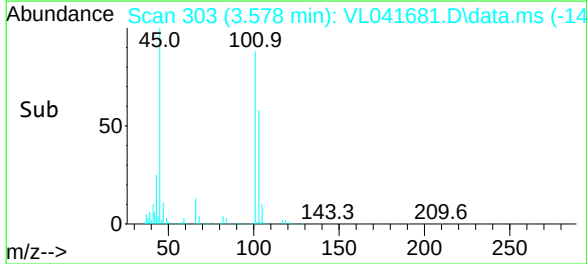
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



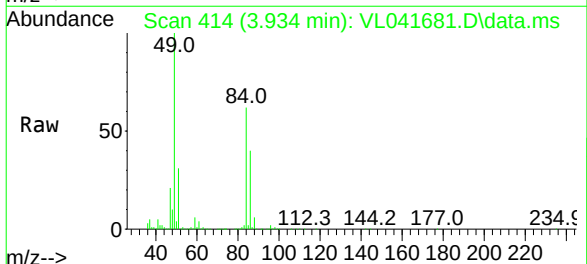
Tgt Ion: 45 Resp: 762103  
Ion Ratio Lower Upper  
45 100  
58 1.9 2.5 3.7#

Manual Integrations  
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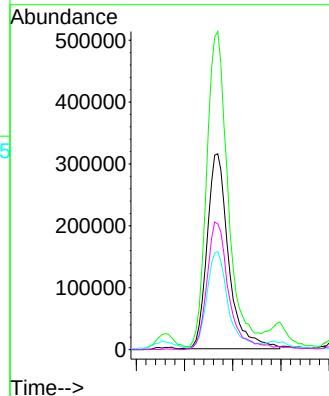
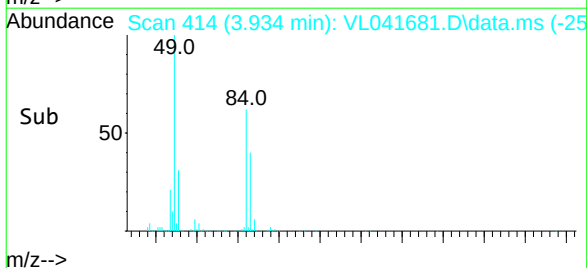
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

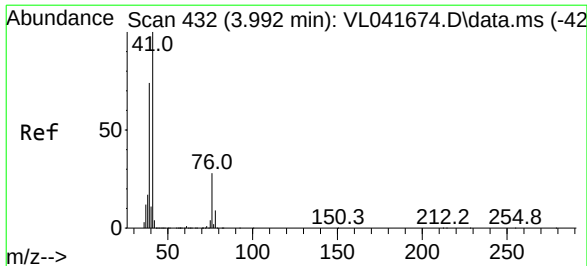


#20  
Methylene Chloride  
Concen: 8.888 ppbv  
RT: 3.934 min Scan# 414  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



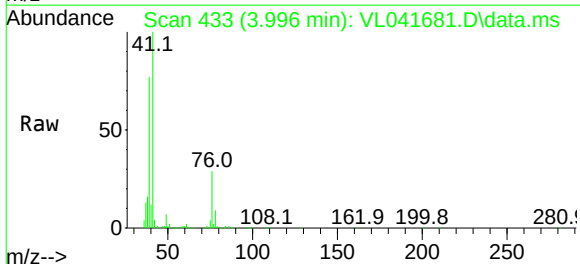
Tgt Ion: 84 Resp: 490767  
Ion Ratio Lower Upper  
84 100  
49 160.5 129.7 194.5  
51 48.5 39.8 59.6  
86 64.5 49.1 73.7





#21  
 Allyl Chloride  
 Concen: 10.272 ppbv  
 RT: 3.996 min Scan# 432  
 Delta R.T. 0.003 min  
 Lab File: VL041681.D  
 Acq: 7 Nov 2024 14:51

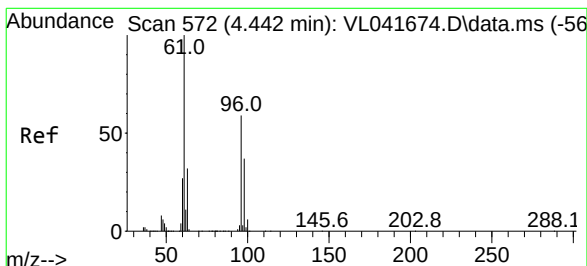
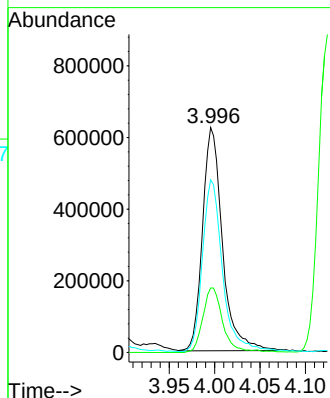
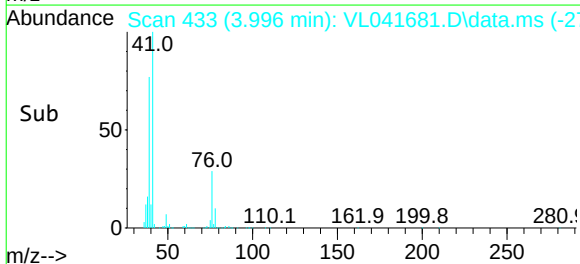
Instrument :  
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 ClientSampleId :  
 ICVVL110724



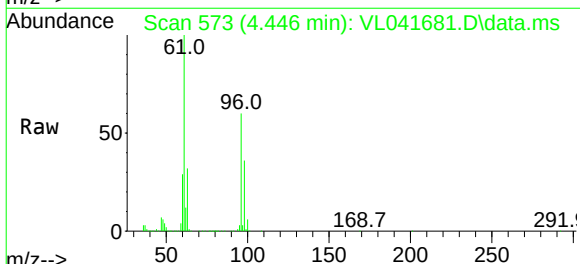
Tgt Ion: 41 Resp: 952403  
 Ion Ratio Lower Upper  
 41 100  
 76 29.3 23.5 35.3  
 39 78.0 63.0 94.4

Manual Integrations  
 APPROVED

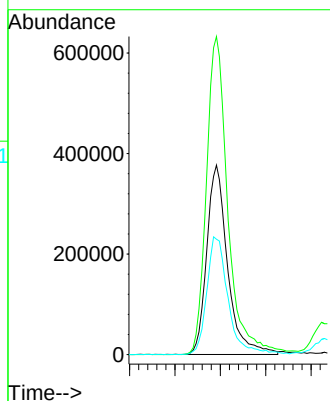
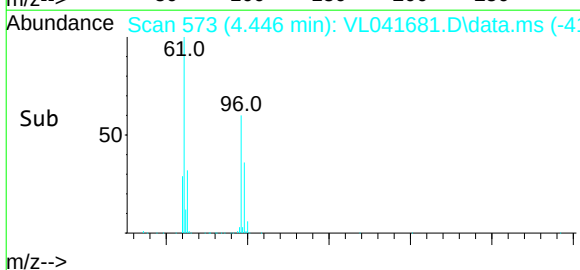
Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

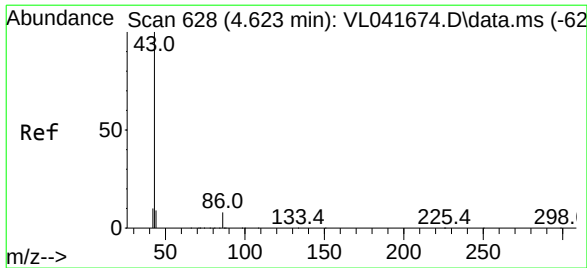


#22  
 trans-1,2-Dichloroethene  
 Concen: 9.905 ppbv  
 RT: 4.446 min Scan# 573  
 Delta R.T. 0.003 min  
 Lab File: VL041681.D  
 Acq: 7 Nov 2024 14:51



Tgt Ion: 96 Resp: 602606  
 Ion Ratio Lower Upper  
 96 100  
 61 167.9 134.5 201.7  
 98 60.9 49.6 74.4





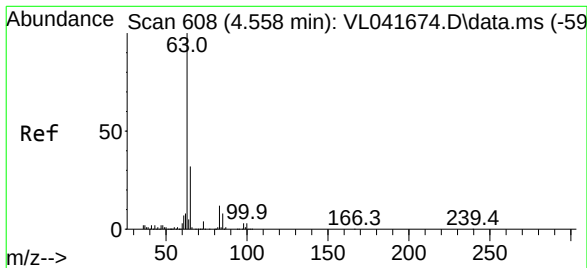
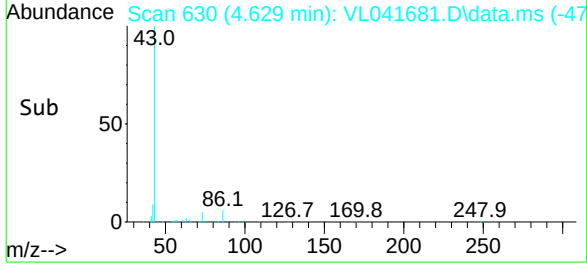
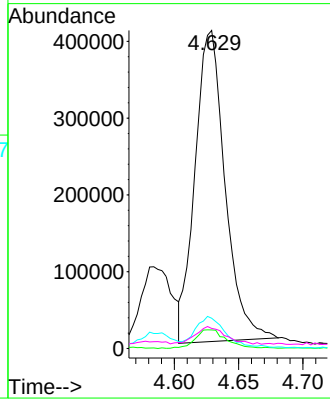
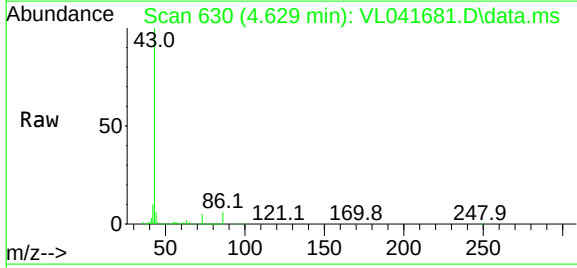
#23  
Vinyl Acetate  
Concen: 9.976 ppbv  
RT: 4.629 min Scan# 631  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 659846 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 5.9   | 5.3   | 7.9    |
| 42       | 9.3   | 8.5   | 12.7   |
| 44       | 4.8   | 6.7   | 10.1#  |

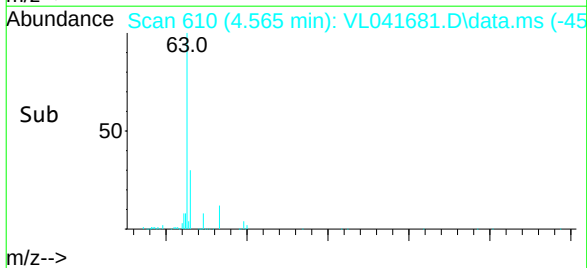
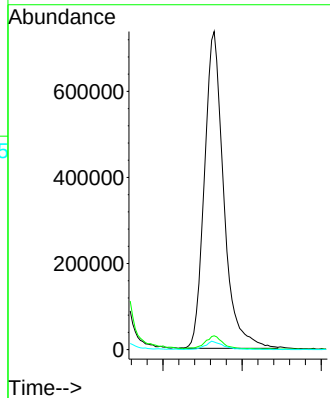
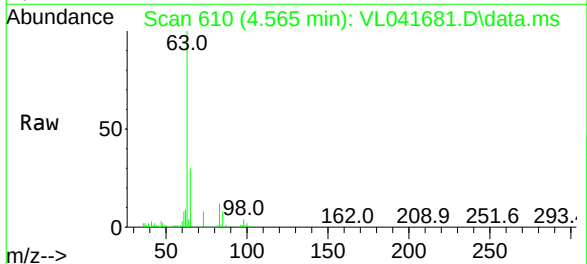
Manual Integrations  
APPROVED

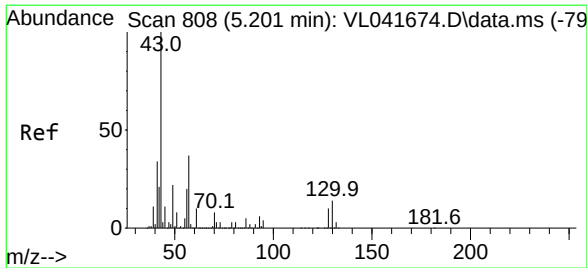
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#24  
1,1-Dichloroethane  
Concen: 9.177 ppbv  
RT: 4.565 min Scan# 610  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

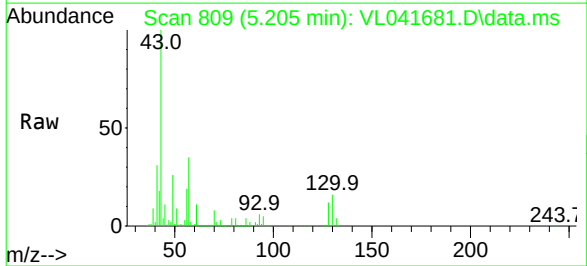
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 63    | Resp: | 1246280 |
| Ion      | Ratio | Lower | Upper   |
| 63       | 100   |       |         |
| 98       | 4.2   | 1.8   | 5.4     |
| 100      | 2.3   | 1.4   | 4.2     |





#25  
Ethyl Acetate  
Concen: 9.850 ppbv  
RT: 5.205 min Scan# 808  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

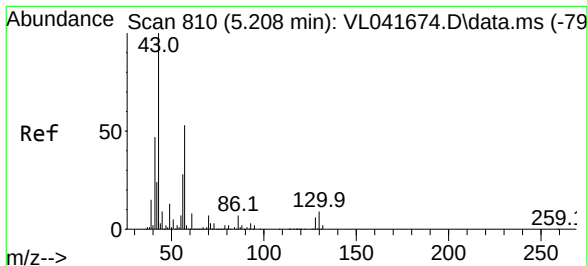
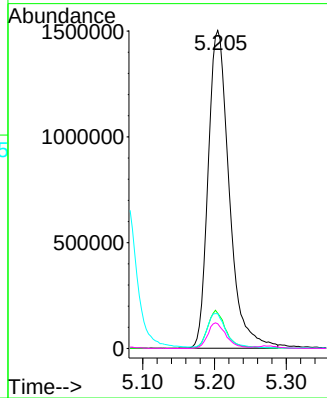
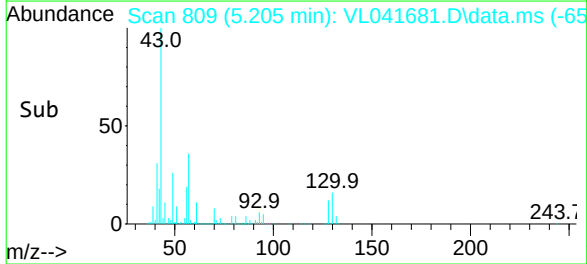
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



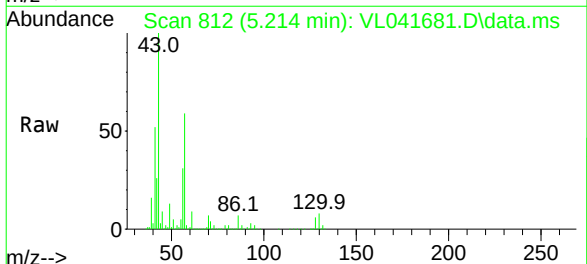
Tgt Ion: 43 Resp: 3059483  
Ion Ratio Lower Upper  
43 100  
45 10.7 8.6 13.0  
61 10.6 8.4 12.6  
70 7.1 5.8 8.6

Manual Integrations  
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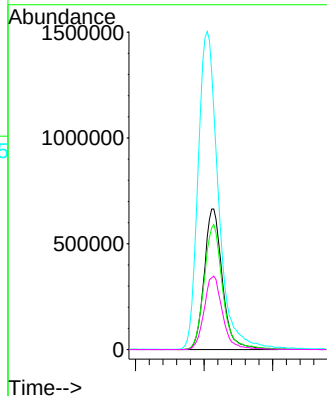
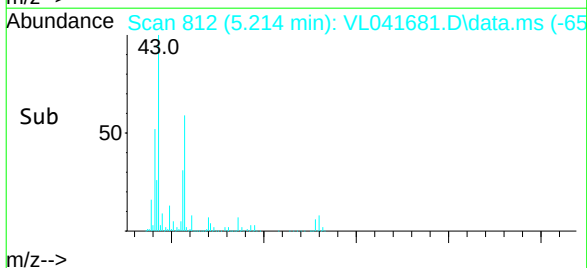
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

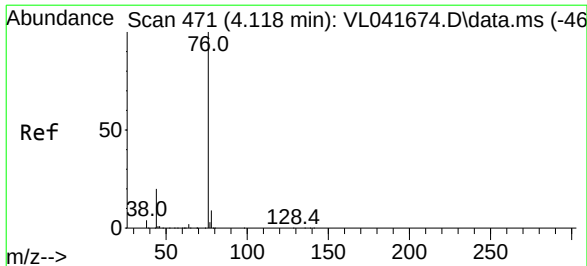


#26  
Hexane  
Concen: 10.235 ppbv  
RT: 5.214 min Scan# 812  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



Tgt Ion: 57 Resp: 1221365  
Ion Ratio Lower Upper  
57 100  
41 91.4 76.1 114.1  
43 252.9 207.0 310.6  
56 53.4 43.7 65.5





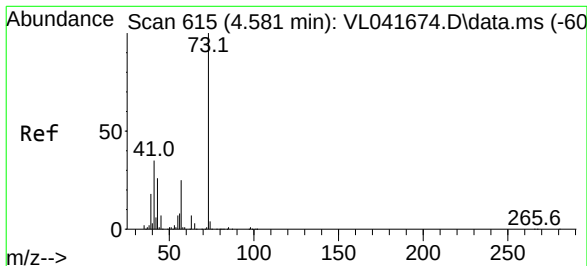
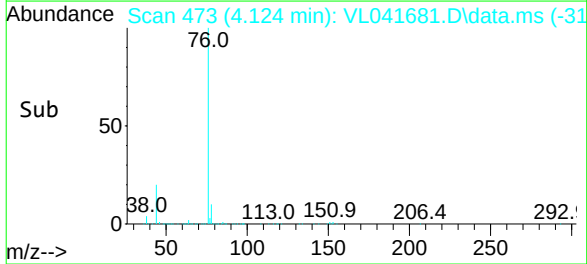
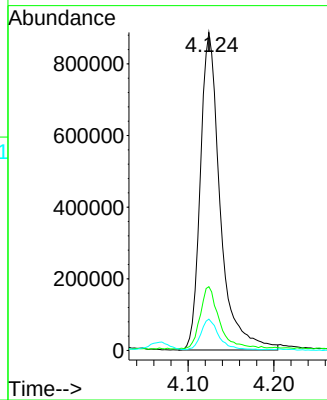
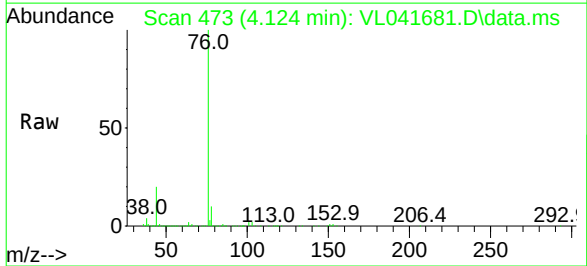
#27  
Carbon Disulfide  
Concen: 10.648 ppbv  
RT: 4.124 min Scan# 471  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

Tgt Ion: 76 Resp: 1427544  
Ion Ratio Lower Upper  
76 100  
44 20.5 15.8 23.8  
78 10.0 7.5 11.3

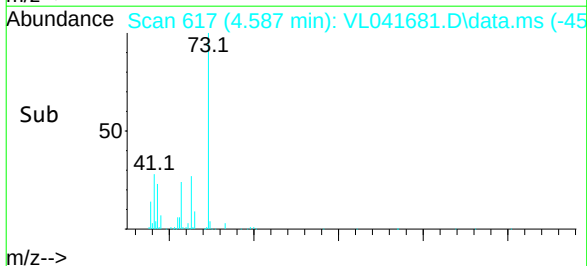
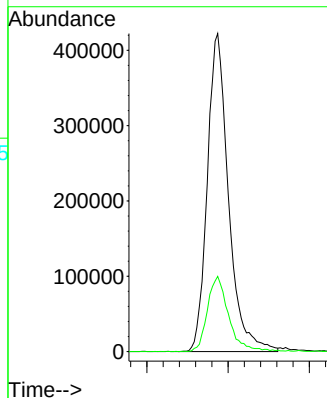
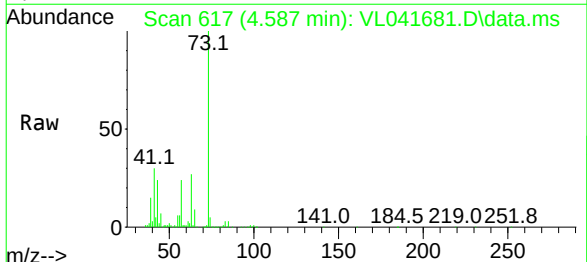
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

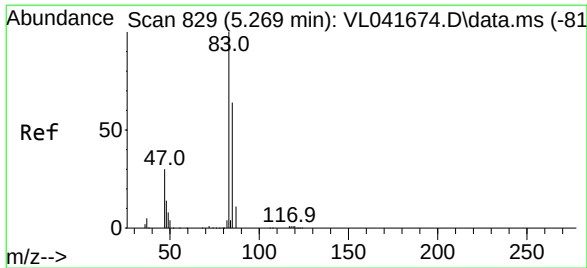


#28  
Methyl tert-Butyl Ether  
Concen: 9.954 ppbv  
RT: 4.587 min Scan# 617  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 73 Resp: 764924  
Ion Ratio Lower Upper  
73 100  
57 23.9 19.6 29.4

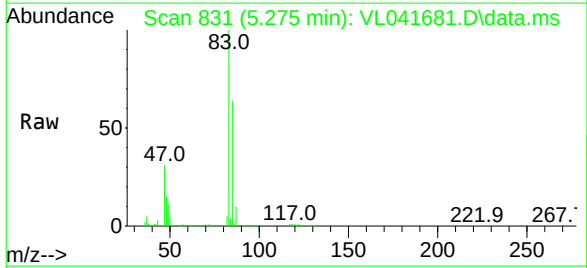






#29  
Chloroform  
Concen: 9.167 ppbv  
RT: 5.275 min Scan# 83  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

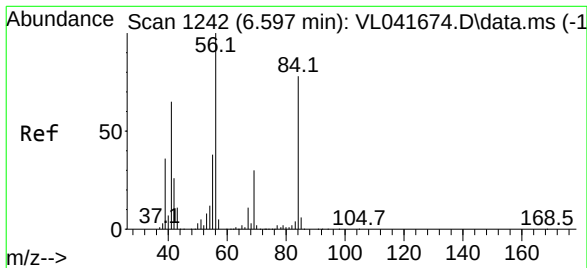
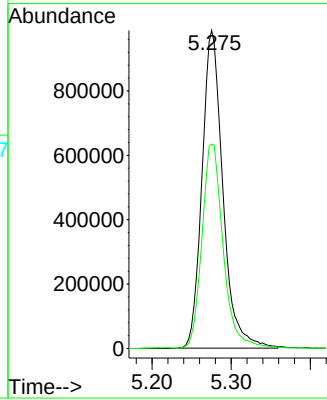
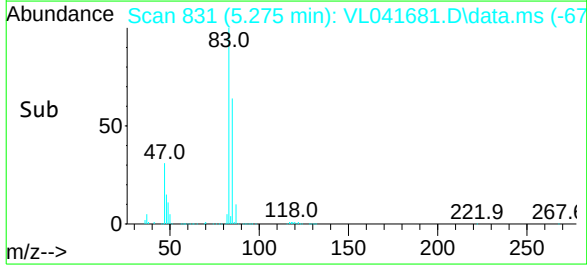
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



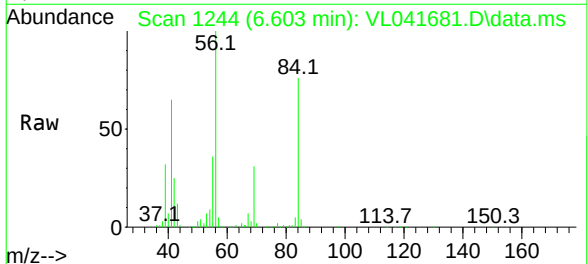
Tgt Ion: 83 Resp: 1805559  
Ion Ratio Lower Upper  
83 100  
85 64.2 51.1 76.7

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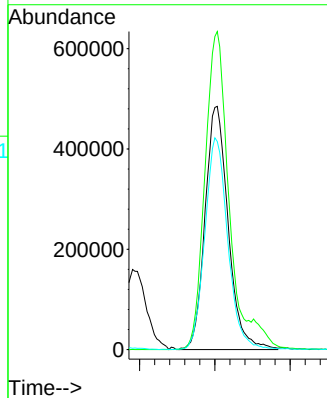
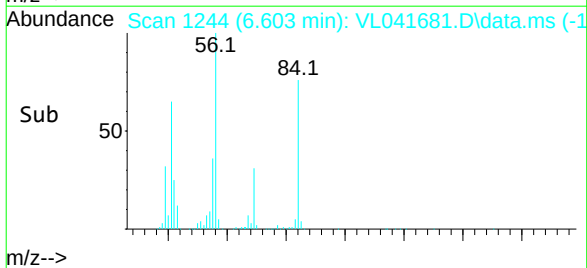
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

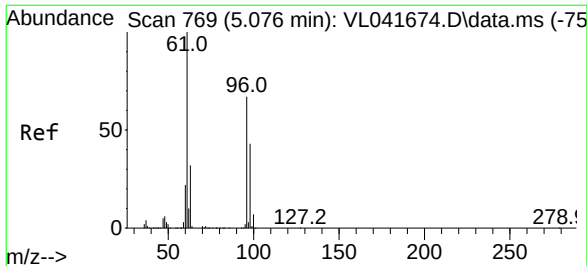


#30  
Cyclohexane  
Concen: 10.204 ppbv  
RT: 6.603 min Scan# 1244  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



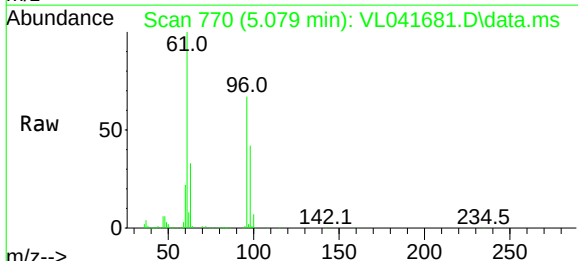
Tgt Ion: 84 Resp: 1036810  
Ion Ratio Lower Upper  
84 100  
56 138.2 110.8 166.2  
41 86.7 70.0 105.0





#31  
cis-1,2-Dichloroethene  
Concen: 10.374 ppbv  
RT: 5.079 min Scan# 77  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

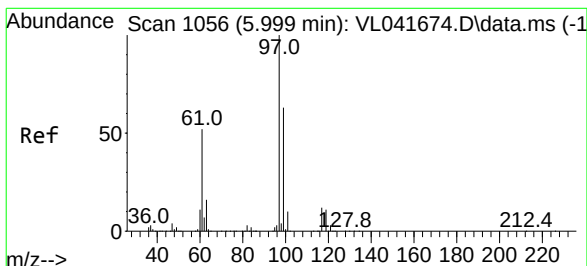
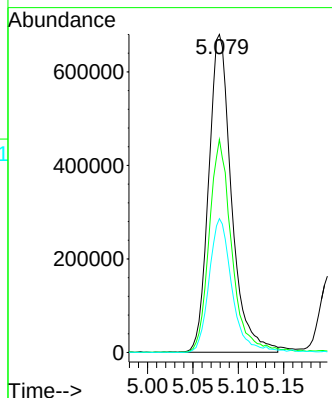
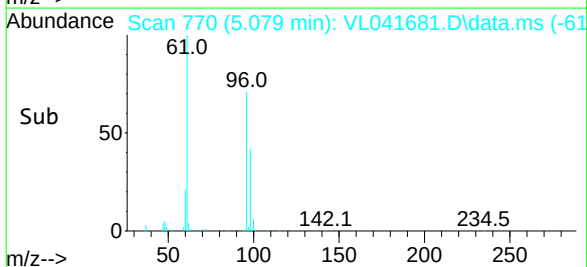
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



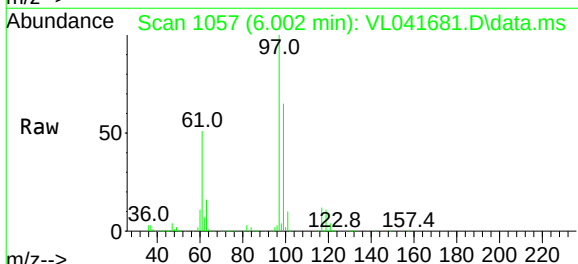
Tgt Ion: 61 Resp: 1190854  
Ion Ratio Lower Upper  
61 100  
96 67.0 53.4 80.2  
98 42.1 34.0 51.0

Manual Integrations  
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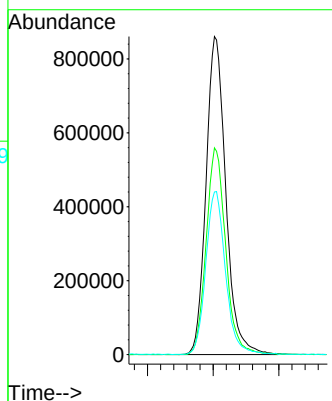
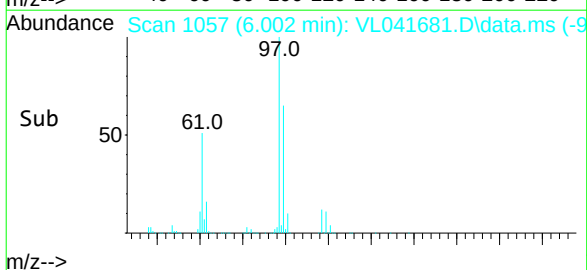
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

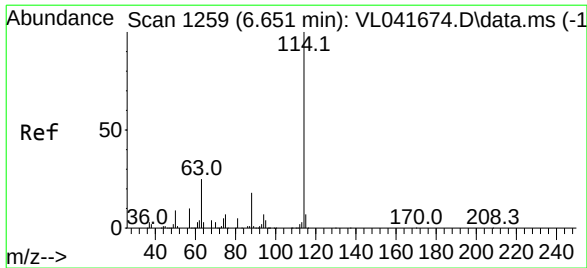


#32  
1,1,1-Trichloroethane  
Concen: 10.002 ppbv  
RT: 6.002 min Scan# 1057  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



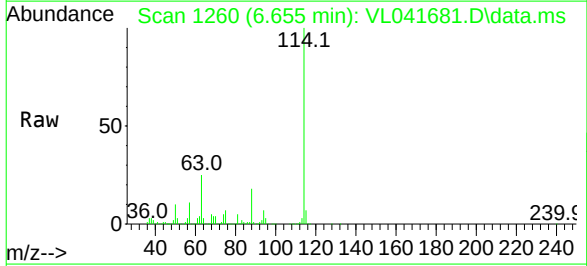
Tgt Ion: 97 Resp: 1797279  
Ion Ratio Lower Upper  
97 100  
99 64.4 51.4 77.2  
61 51.4 41.7 62.5





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.655 min Scan# 1259  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

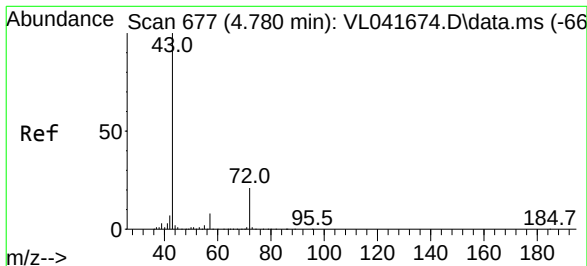
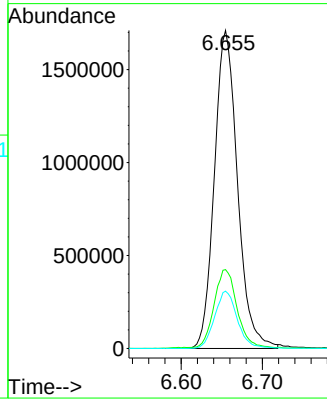
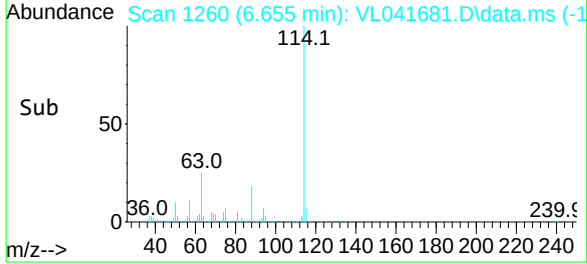
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



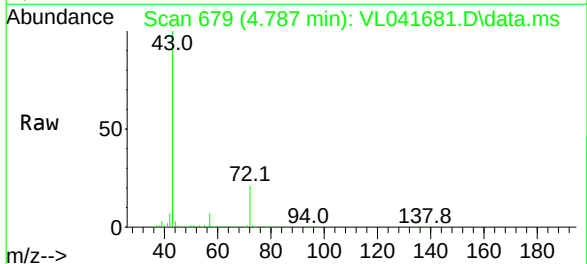
Tgt Ion: 114 Resp: 3384840  
Ion Ratio Lower Upper  
114 100  
63 25.4 20.3 30.5  
88 17.9 14.2 21.4

Manual Integrations  
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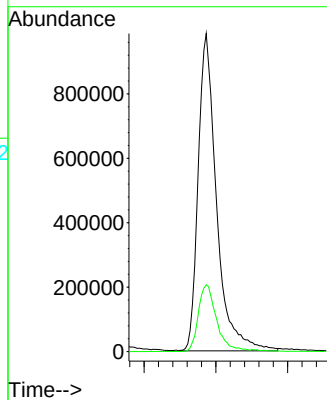
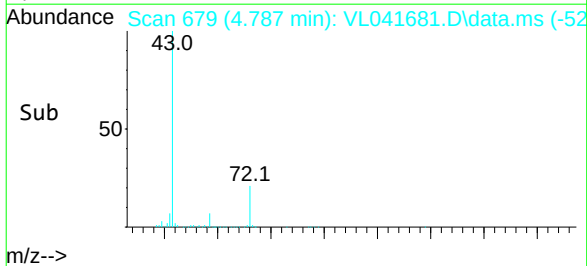
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

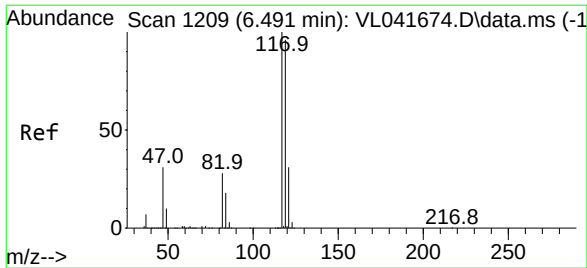


#34  
2-Butanone  
Concen: 10.390 ppbv  
RT: 4.787 min Scan# 679  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



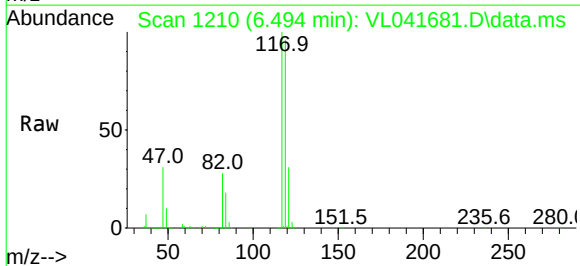
Tgt Ion: 43 Resp: 1751089  
Ion Ratio Lower Upper  
43 100  
72 21.6 17.4 26.0





#35  
Carbon Tetrachloride  
Concen: 10.244 ppbv  
RT: 6.494 min Scan# 1209  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

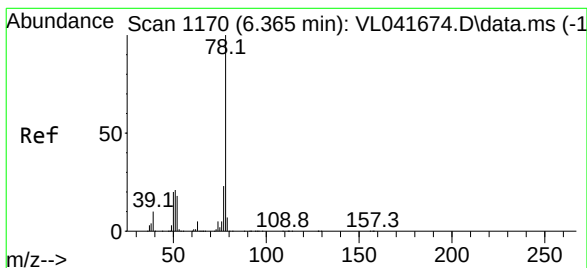
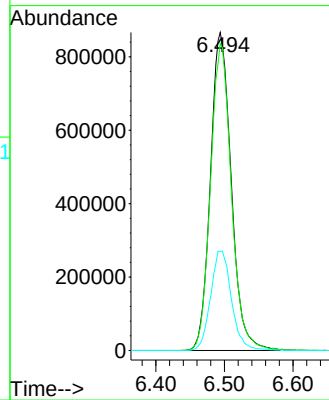
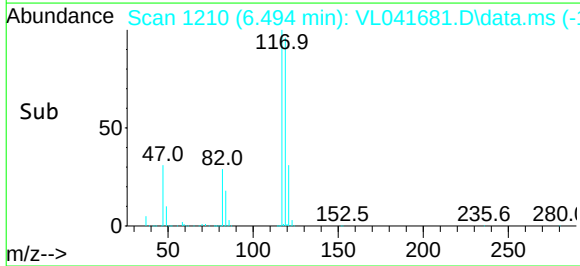
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



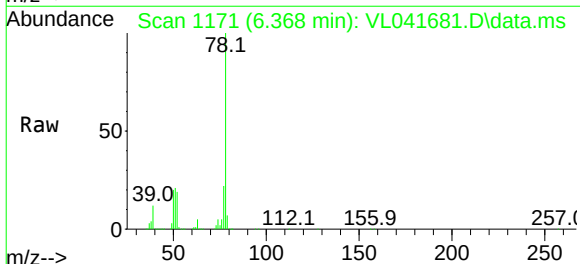
Tgt Ion: 117 Resp: 1829420  
Ion Ratio Lower Upper  
117 100  
119 96.4 77.2 115.8  
121 31.2 25.0 37.4

Manual Integrations  
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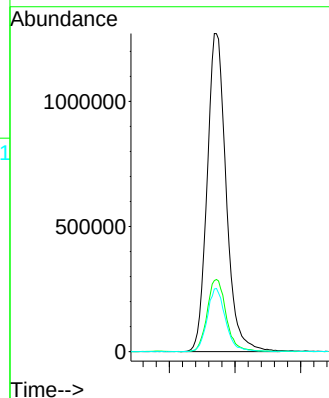
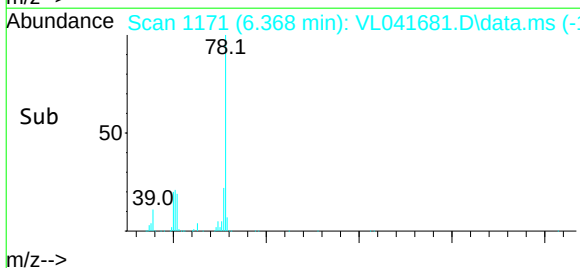
Reviewed By : Mahesh Dadoda 11/09/2024  
Supervised By : Semsettin Yesilyurt 11/09/2024

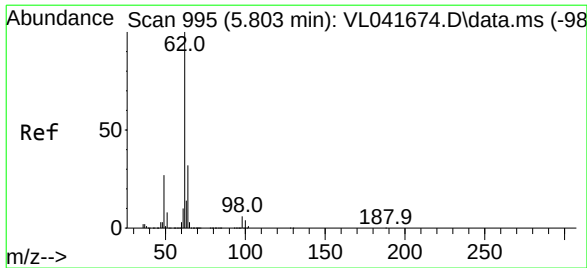


#36  
Benzene  
Concen: 10.208 ppbv  
RT: 6.368 min Scan# 1171  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



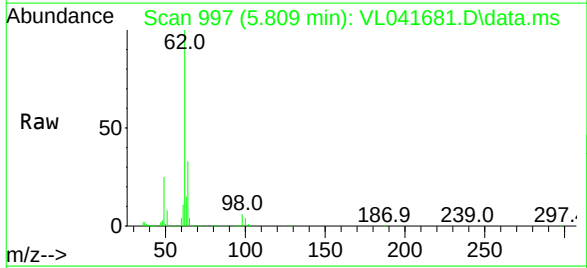
Tgt Ion: 78 Resp: 2560057  
Ion Ratio Lower Upper  
78 100  
77 22.3 18.5 27.7  
50 19.7 15.6 23.4





#37  
1,2-Dichloroethane  
Concen: 9.726 ppbv  
RT: 5.809 min Scan# 995  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

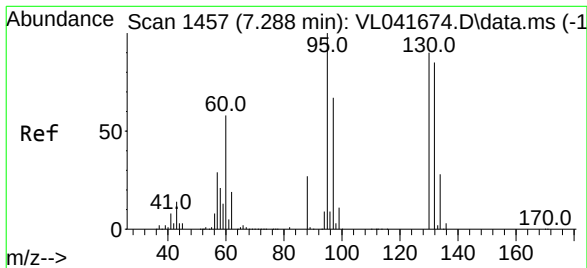
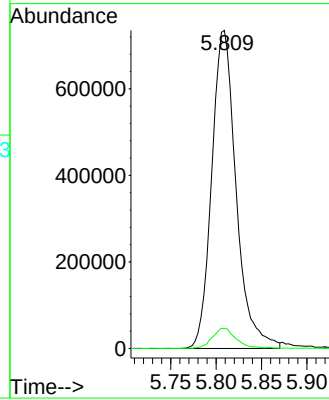
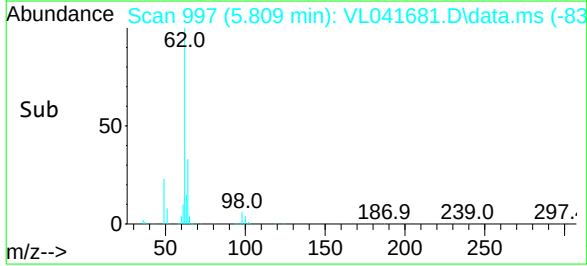
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



Tgt Ion: 62 Resp: 1376089  
Ion Ratio Lower Upper  
62 100  
98 6.3 5.2 7.8

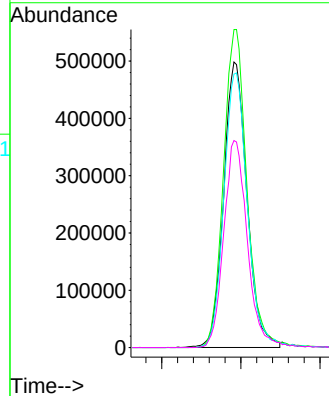
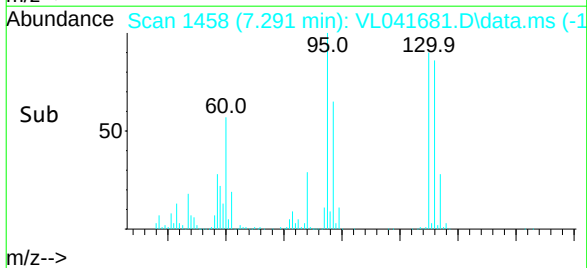
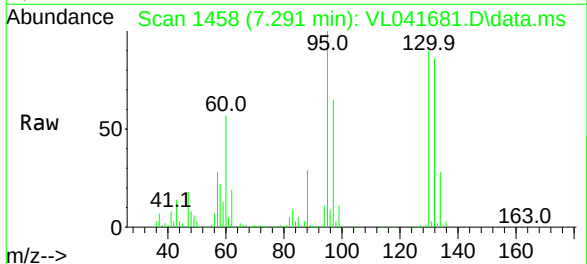
Manual Integrations  
APPROVED

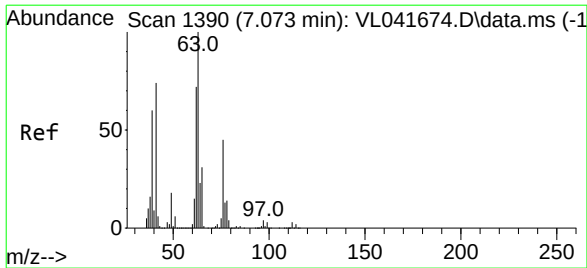
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#38  
Trichloroethene  
Concen: 10.577 ppbv  
RT: 7.291 min Scan# 1458  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

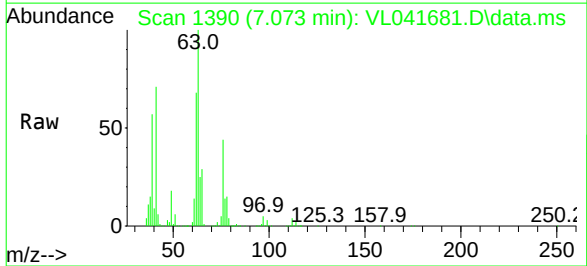
Tgt Ion:130 Resp: 1018788  
Ion Ratio Lower Upper  
130 100  
95 111.4 89.1 133.7  
132 95.8 75.7 113.5  
97 72.5 60.0 90.0





#39  
1,2-Dichloropropane  
Concen: 9.923 ppbv  
RT: 7.073 min Scan# 1390  
Delta R.T. 0.000 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

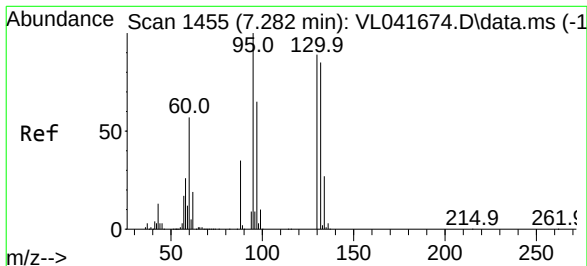
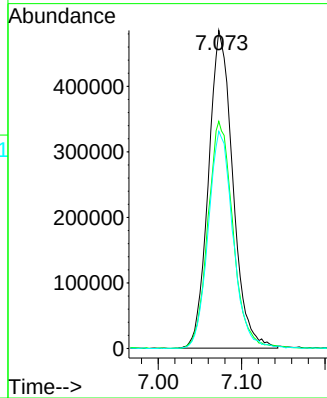
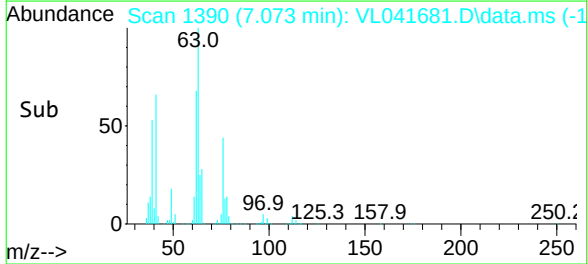
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



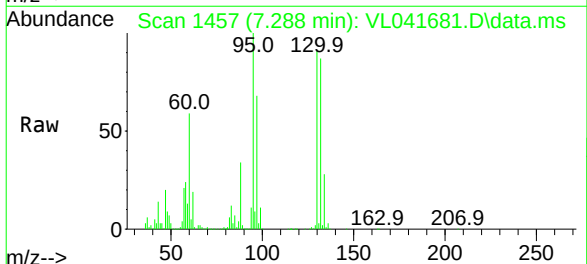
Tgt Ion: 63 Resp: 983477  
Ion Ratio Lower Upper  
63 100  
41 71.4 59.1 88.7  
62 68.3 57.7 86.5

Manual Integrations  
APPROVED

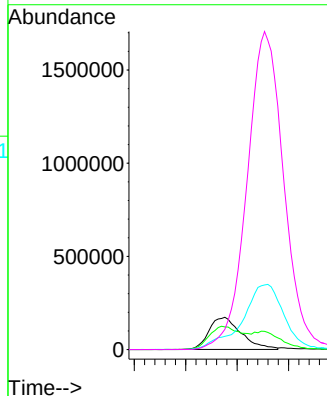
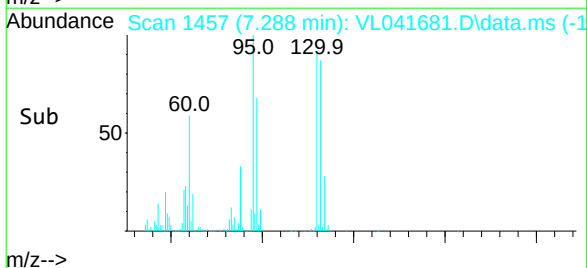
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

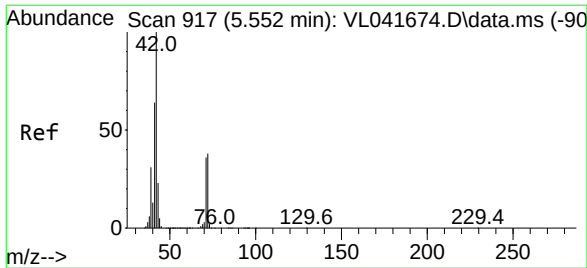


#40  
1,4-Dioxane  
Concen: 10.579 ppbv  
RT: 7.288 min Scan# 1457  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



Tgt Ion: 88 Resp: 376201  
Ion Ratio Lower Upper  
88 100  
58 127.2 101.4 152.2  
43 0.0 208.0 312.0#  
57 0.0 902.9 1354.3#





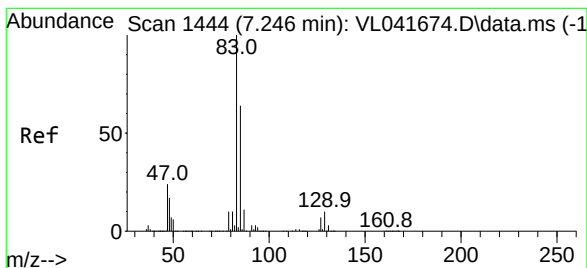
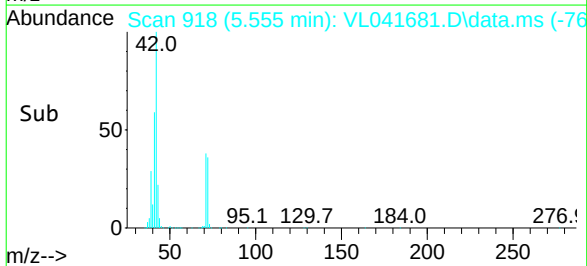
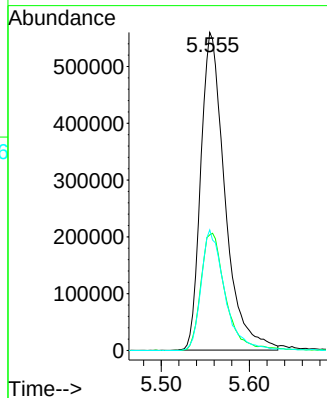
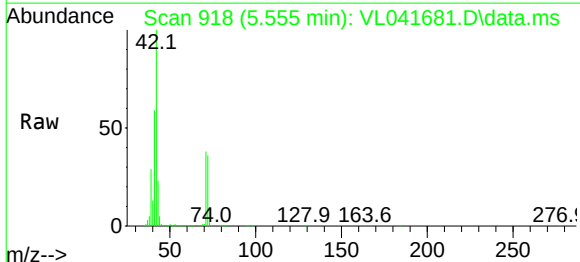
#41  
Tetrahydrofuran  
Concen: 11.067 ppbv  
RT: 5.555 min Scan# 917  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

Tgt Ion: 42 Resp: 1065202  
Ion Ratio Lower Upper  
42 100  
72 37.9 29.8 44.6  
71 37.5 29.4 44.2

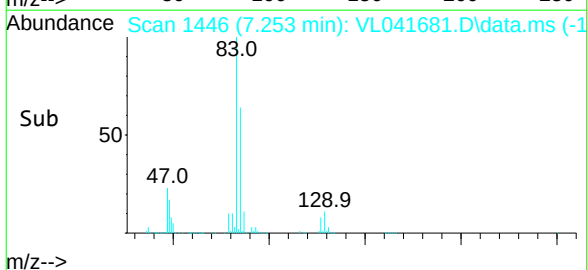
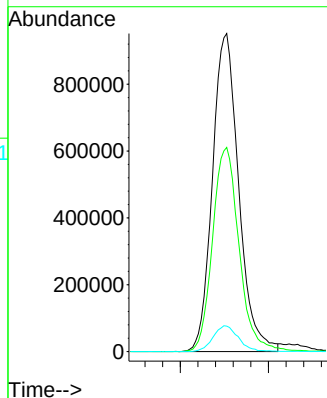
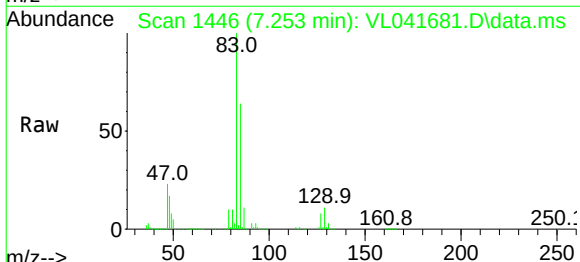
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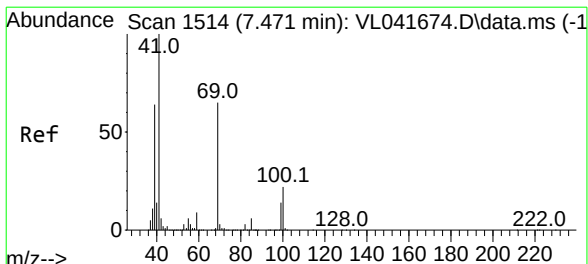
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#42  
Bromodichloromethane  
Concen: 10.002 ppbv  
RT: 7.253 min Scan# 1446  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

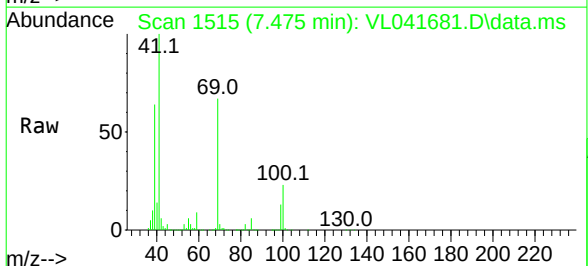
Tgt Ion: 83 Resp: 1966589  
Ion Ratio Lower Upper  
83 100  
85 64.2 51.2 76.8  
127 8.0 6.0 9.0





#43  
Methyl Methacrylate  
Concen: 11.473 ppbv  
RT: 7.475 min Scan# 1514  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

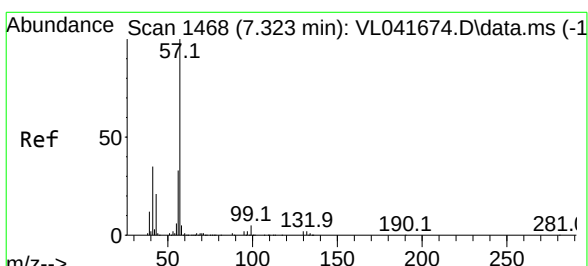
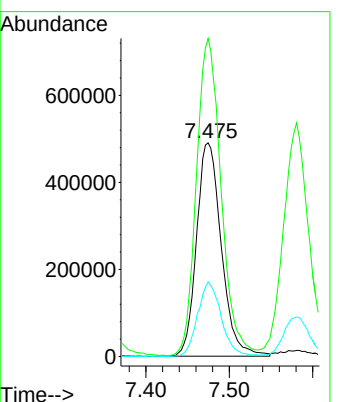
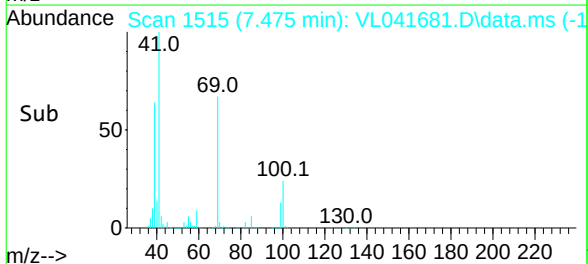
Instrument : MSVOA\_L  
ClientSampleId : ICVVL110724



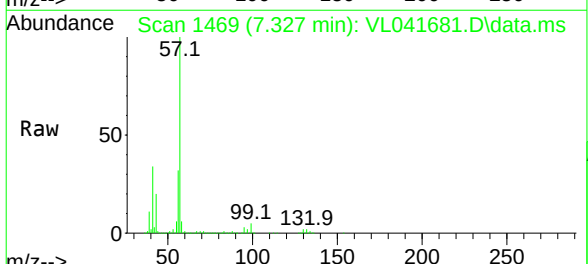
Tgt Ion: 69 Resp: 1010315

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 148.9 | 119.8 | 179.6 |
| 100 | 33.6  | 27.3  | 40.9  |

Manual Integrations  
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Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

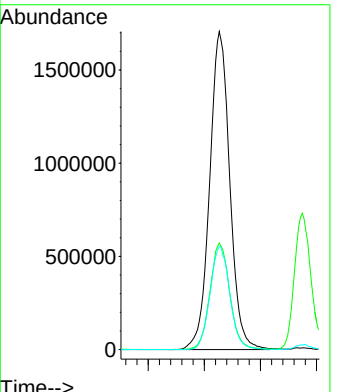
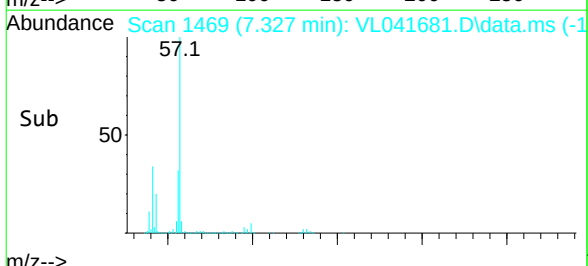


#44  
2,2,4-Trimethylpentane  
Concen: 10.012 ppbv  
RT: 7.327 min Scan# 1469  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

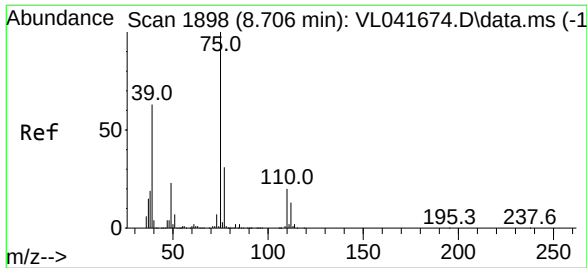


Tgt Ion: 57 Resp: 4253439

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 33.1  | 27.0  | 40.6  |
| 56  | 31.9  | 25.8  | 38.6  |







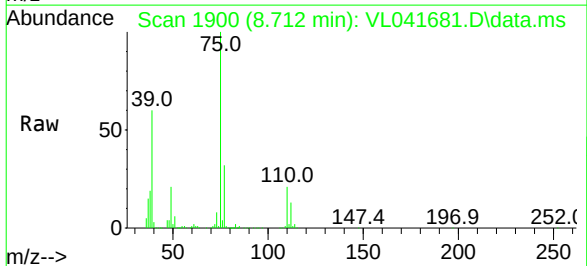
#45  
t-1,3-Dichloropropene  
Concen: 12.176 ppbv  
RT: 8.712 min Scan# 1900  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

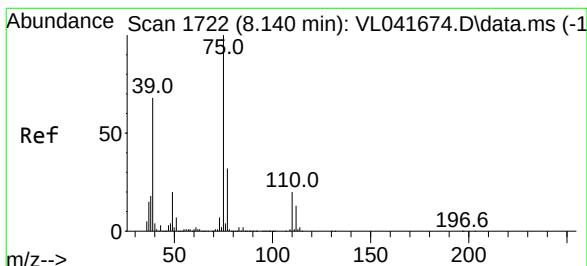
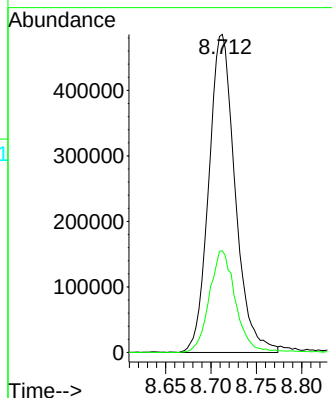
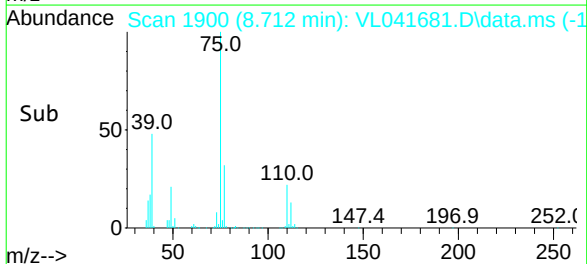
ICVVL110724



Tgt Ion: 75 Resp: 979763  
Ion Ratio Lower Upper  
75 100  
77 32.0 24.7 37.1

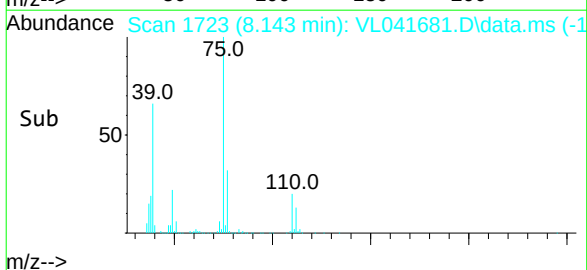
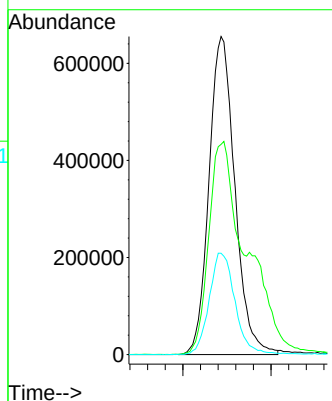
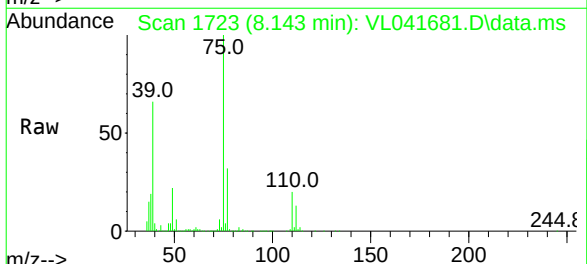
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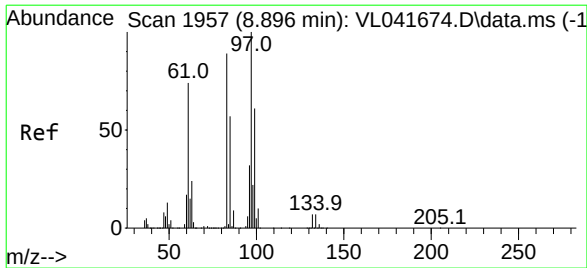
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#46  
cis-1,3-Dichloropropene  
Concen: 11.555 ppbv  
RT: 8.143 min Scan# 1723  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

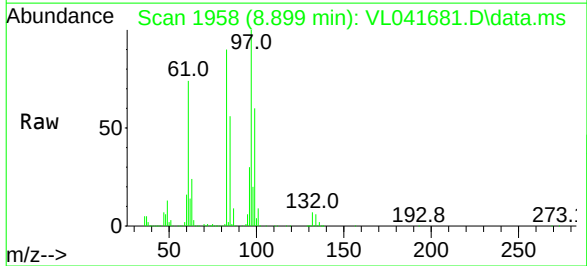
Tgt Ion: 75 Resp: 1335370  
Ion Ratio Lower Upper  
75 100  
39 66.0 54.1 81.1  
77 31.8 25.3 37.9





#47  
1,1,2-Trichloroethane  
Concen: 9.583 ppbv  
RT: 8.899 min Scan# 1957  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

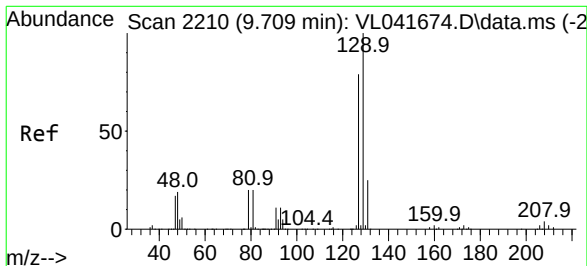
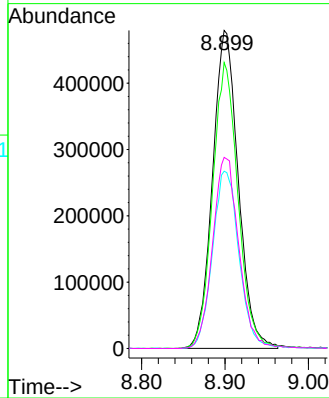
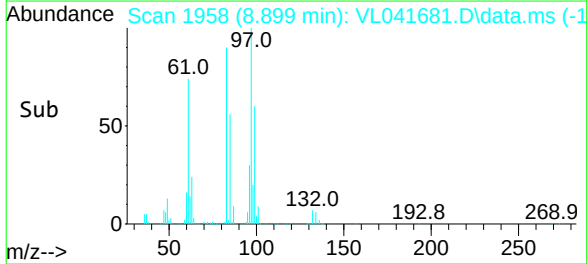
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



Tgt Ion: 97 Resp: 1027960  
Ion Ratio Lower Upper  
97 100  
83 89.9 71.0 106.6  
85 55.8 45.4 68.2  
99 60.1 49.0 73.6

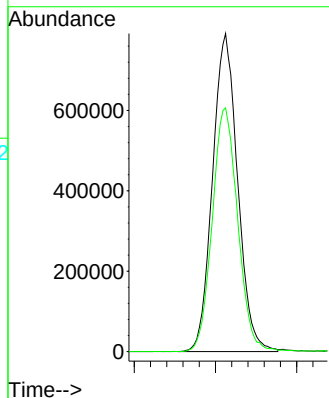
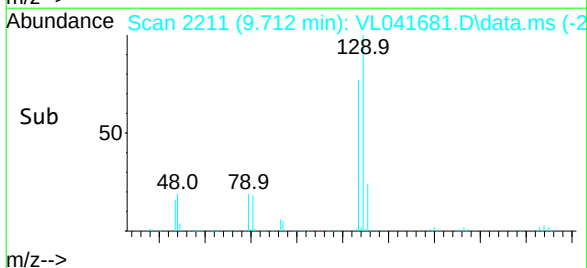
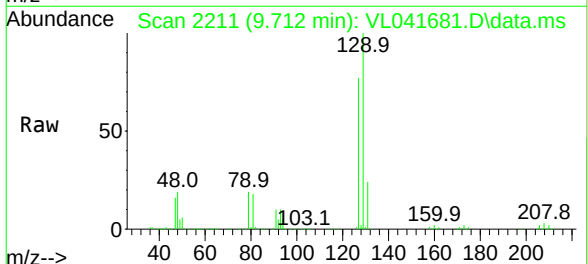
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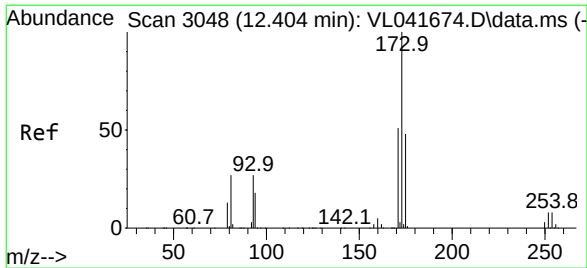
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#48  
Dibromochloromethane  
Concen: 10.410 ppbv  
RT: 9.712 min Scan# 2211  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion:129 Resp: 1697504  
Ion Ratio Lower Upper  
129 100  
127 78.1 39.1 117.2





#49

Bromoform

Concen: 10.519 ppbv

RT: 12.410 min Scan# 3048

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

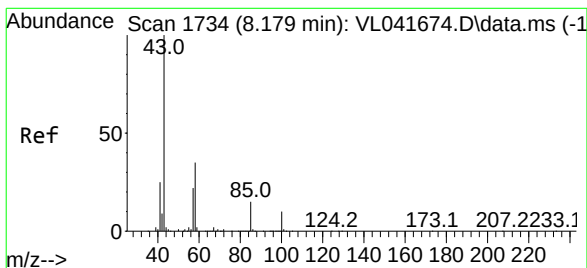
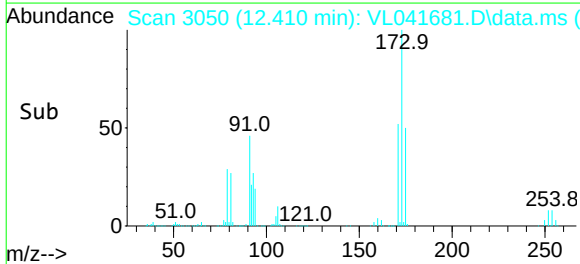
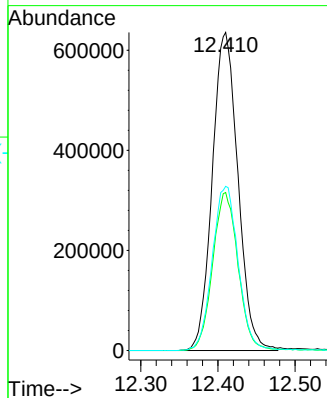
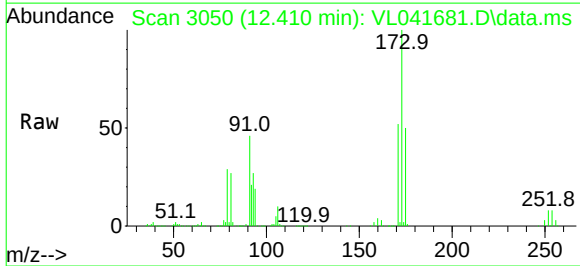
ICVVL110724

Tgt Ion: 173 Resp: 1467565

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 173 | 100   |       |       |
| 175 | 49.4  | 39.2  | 58.8  |
| 171 | 52.4  | 41.7  | 62.5  |

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Supervised By :Semsettin Yesilyurt 11/09/2024



#50

4-Methyl-2-Pentanone

Concen: 10.513 ppbv

RT: 8.182 min Scan# 1735

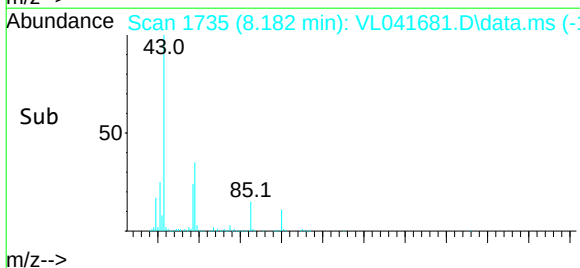
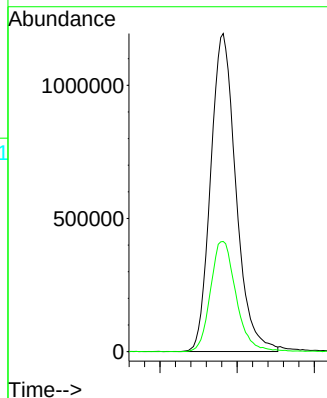
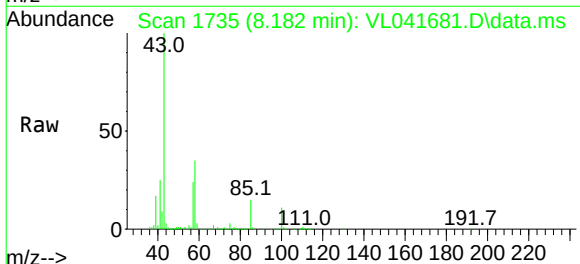
Delta R.T. 0.003 min

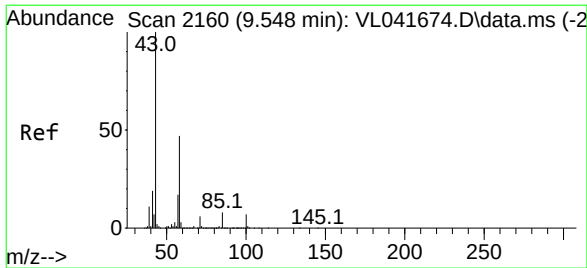
Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Tgt Ion: 43 Resp: 2720056

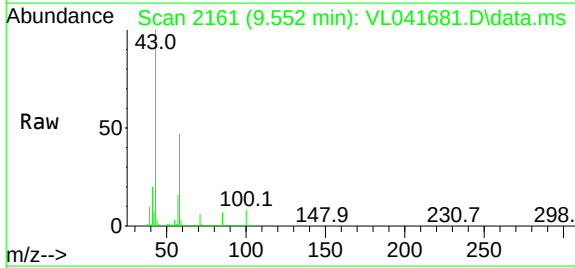
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 35.1  | 27.7  | 41.5  |





#51  
2-Hexanone  
Concen: 11.315 ppbv  
RT: 9.552 min Scan# 2160  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

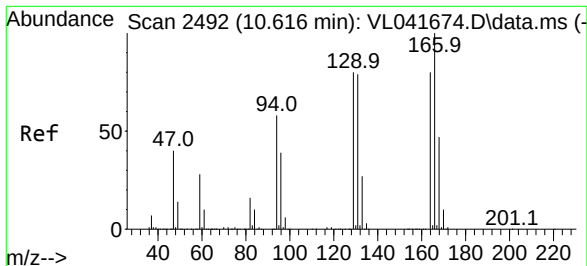
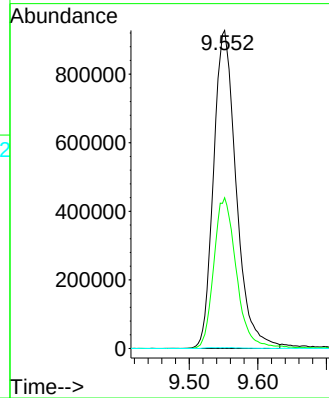
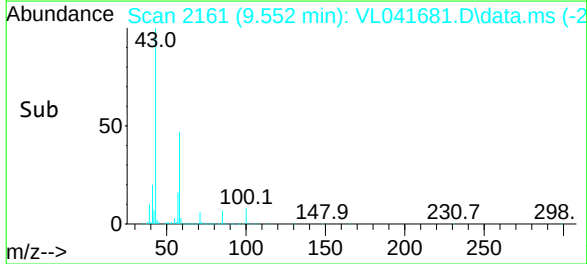
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



Tgt Ion: 43 Resp: 2131991  
Ion Ratio Lower Upper  
43 100  
58 47.9 37.0 55.6  
98 0.3 0.6 0.8

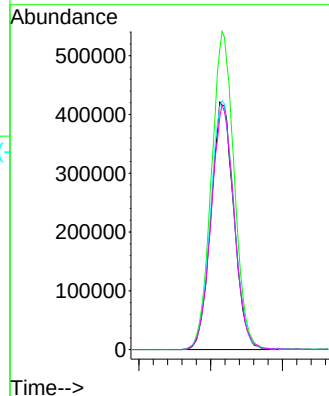
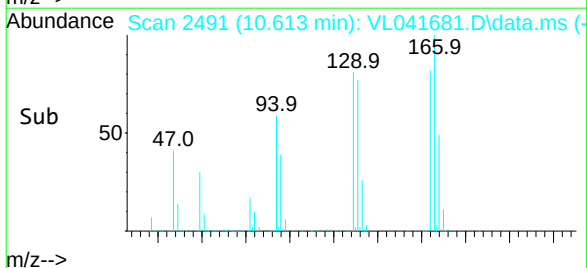
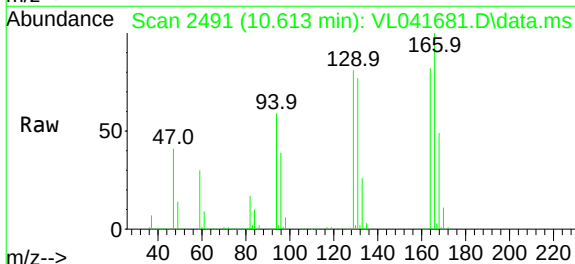
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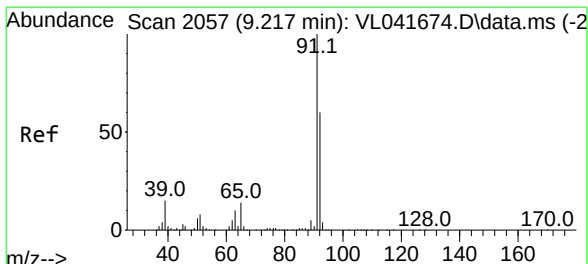
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#52  
Tetrachloroethene  
Concen: 10.901 ppbv  
RT: 10.613 min Scan# 2491  
Delta R.T. -0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

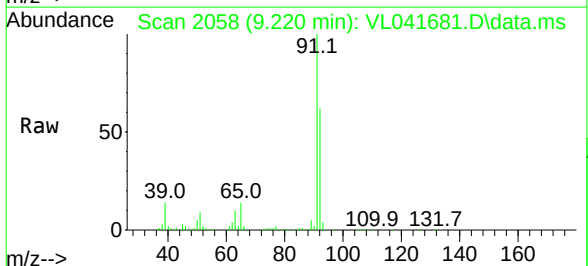
Tgt Ion:164 Resp: 931693  
Ion Ratio Lower Upper  
164 100  
166 121.3 100.2 150.4  
129 98.3 79.7 119.5  
131 94.0 79.0 118.4





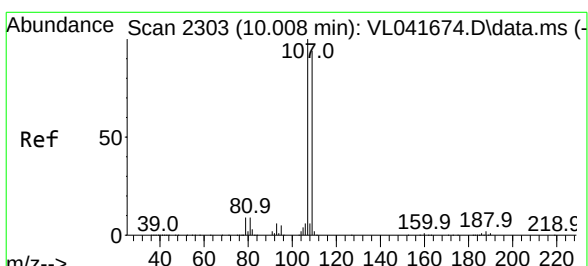
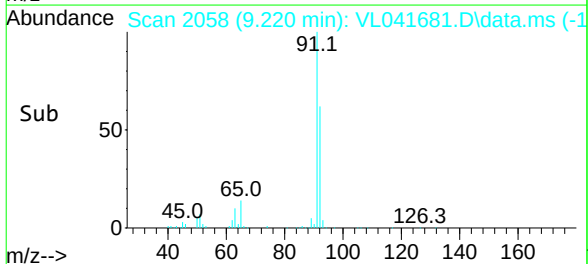
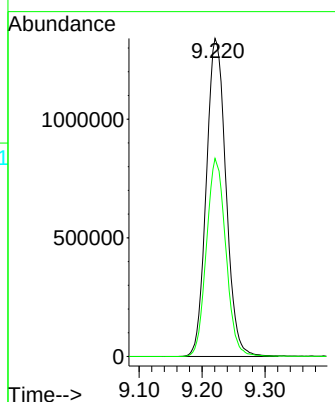
#53  
Toluene  
Concen: 10.997 ppbv  
RT: 9.220 min Scan# 2058  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Instrument : MSVOA\_L  
ClientSampleId : ICVVL110724

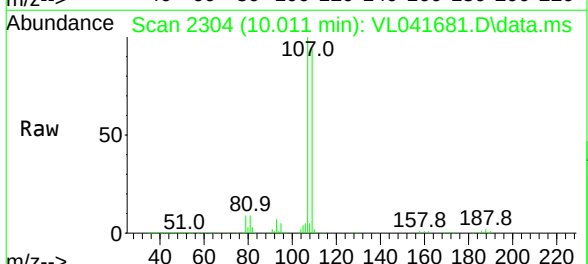


Tgt Ion: 91 Resp: 2900278  
Ion Ratio Lower Upper  
91 100  
92 61.6 49.0 73.4

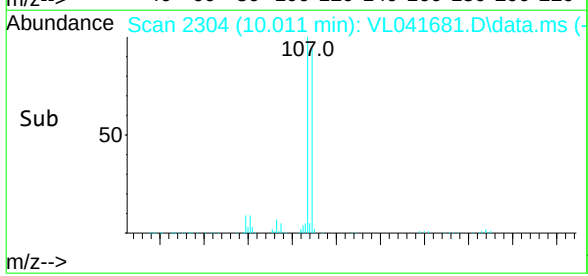
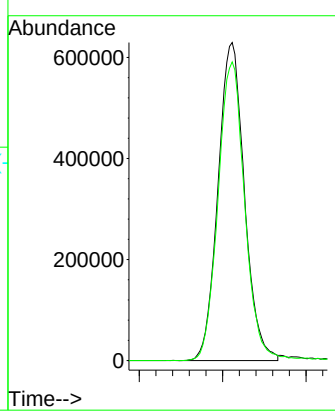
Manual Integrations  
**APPROVED**  
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

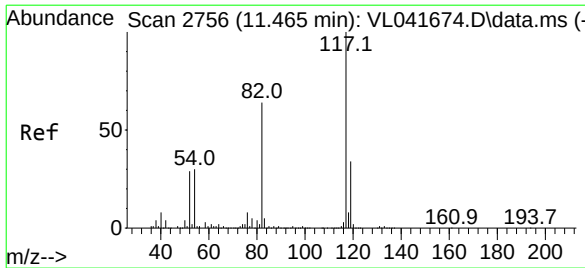


#54  
1,2-Dibromoethane  
Concen: 11.043 ppbv  
RT: 10.011 min Scan# 2304  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



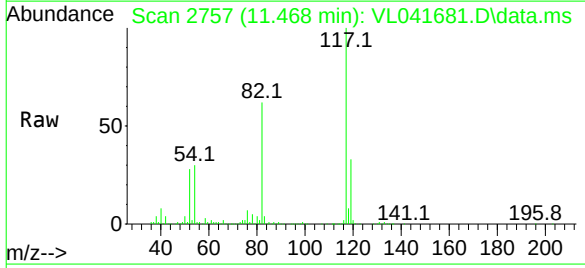
Tgt Ion:107 Resp: 1383939  
Ion Ratio Lower Upper  
107 100  
109 93.9 74.9 112.3





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 11.468 min Scan# 2756  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

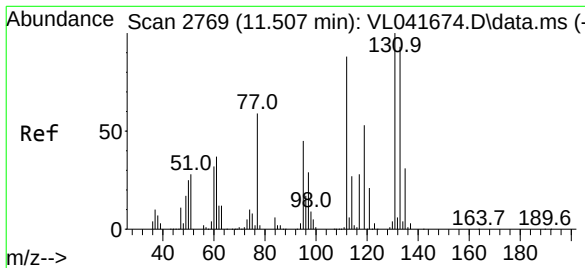
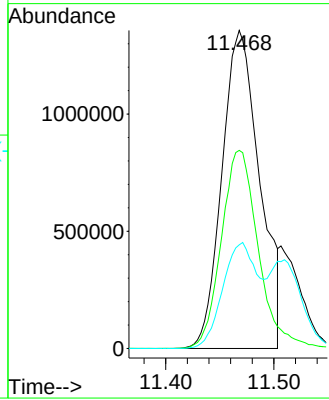
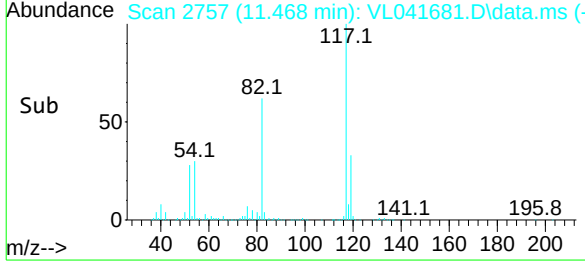
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



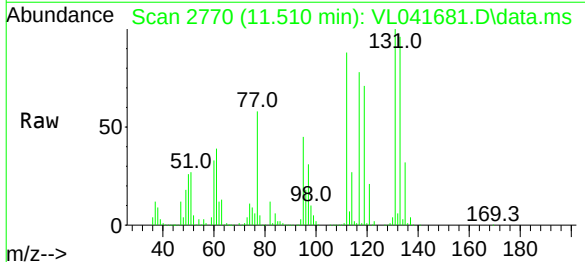
Tgt Ion:117 Resp: 3288136  
Ion Ratio Lower Upper  
117 100  
82 61.5 49.8 74.8  
119 30.8 24.2 36.4

Manual Integrations  
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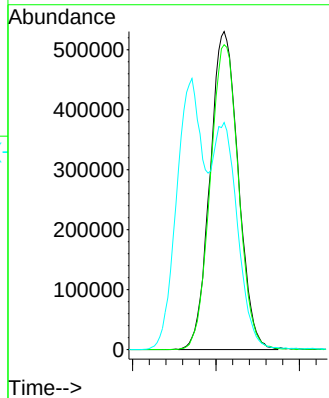
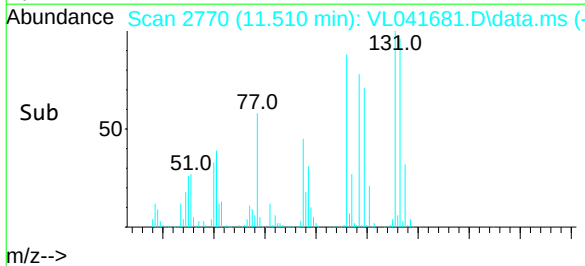
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

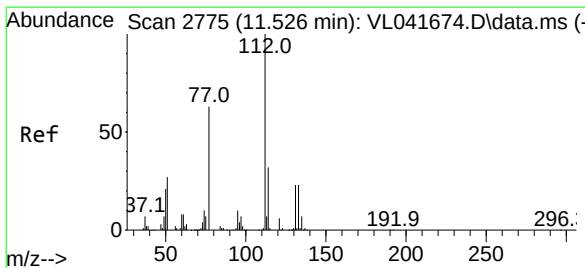


#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.206 ppbv  
RT: 11.510 min Scan# 2770  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



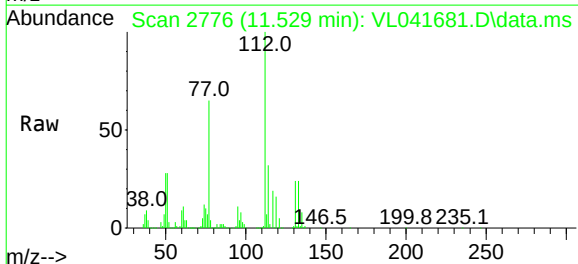
Tgt Ion:131 Resp: 1248422  
Ion Ratio Lower Upper  
131 100  
133 96.0 76.5 114.7  
119 64.6 49.8 74.8





#57  
Chlorobenzene  
Concen: 9.199 ppbv  
RT: 11.529 min Scan# 2775  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

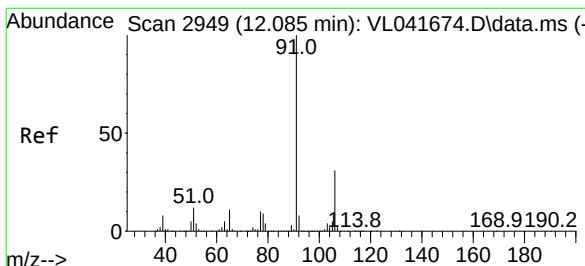
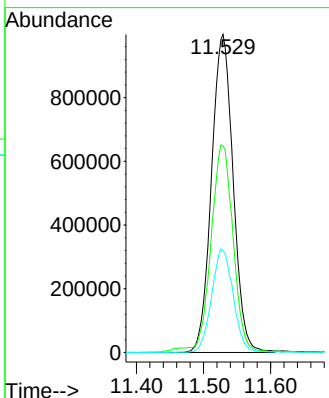
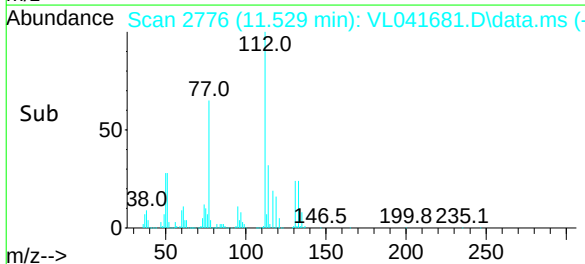
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



Tgt Ion:112 Resp: 2237120  
Ion Ratio Lower Upper  
112 100  
77 64.7 51.4 77.2  
114 31.8 28.4 34.8

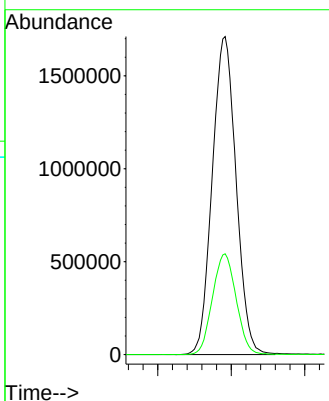
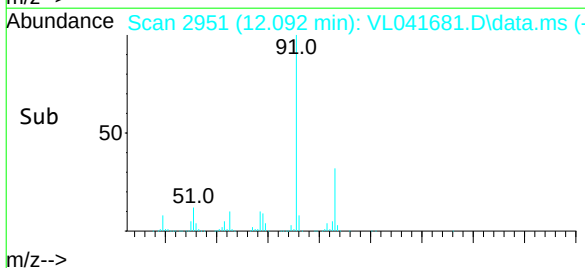
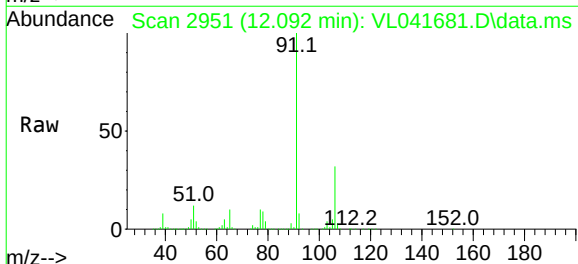
Manual Integrations  
APPROVED

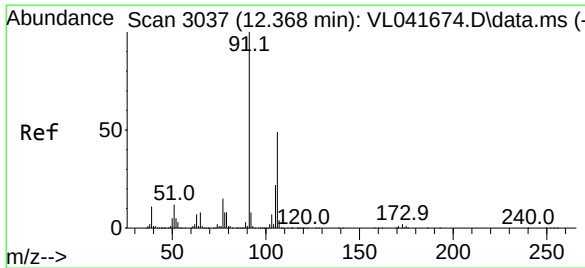
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#58  
Ethyl Benzene  
Concen: 10.696 ppbv  
RT: 12.092 min Scan# 2951  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 91 Resp: 3855683  
Ion Ratio Lower Upper  
91 100  
106 31.7 24.9 37.3





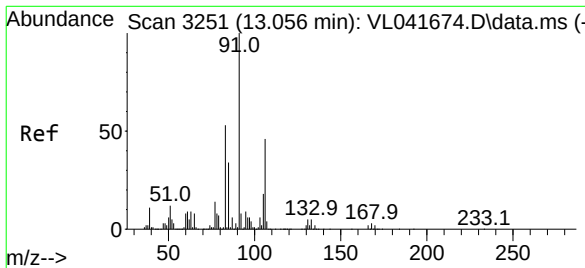
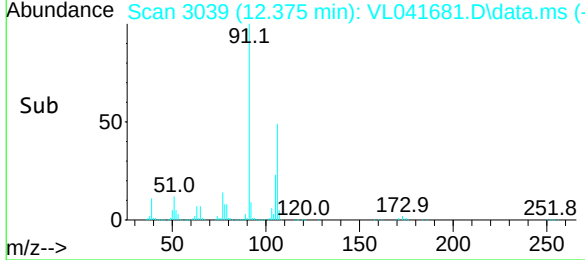
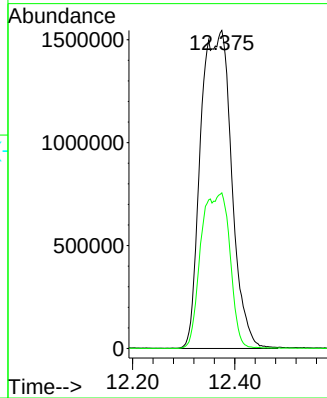
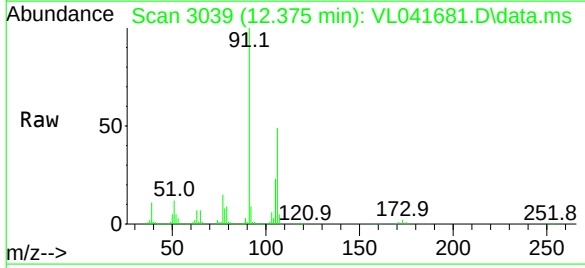
#59  
m/p-Xylene  
Concen: 20.029 ppbv m  
RT: 12.375 min Scan# 3039  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

Tgt Ion: 91 Resp: 6465658  
Ion Ratio Lower Upper  
91 100  
106 45.9 36.9 55.3

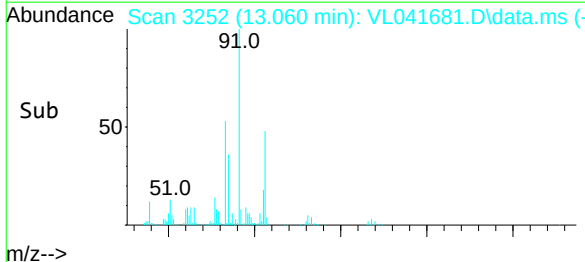
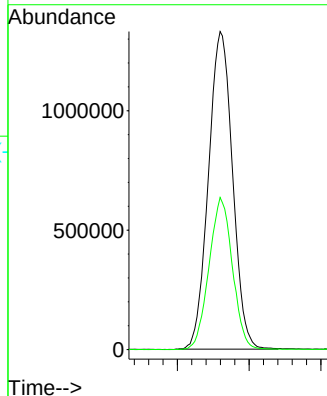
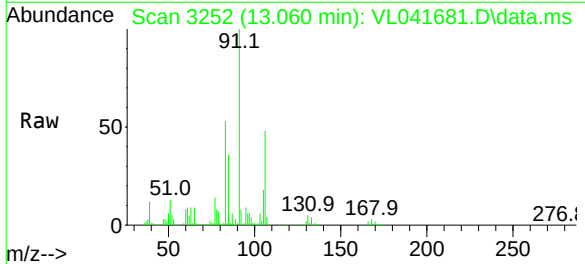
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

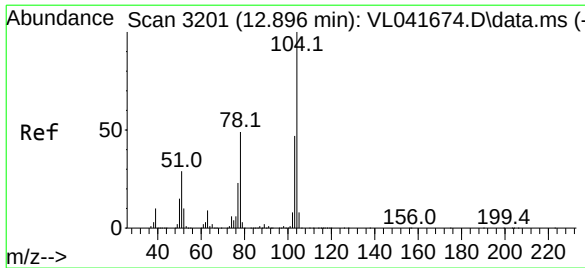


#60  
o-Xylene  
Concen: 10.084 ppbv  
RT: 13.060 min Scan# 3252  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 91 Resp: 3103973  
Ion Ratio Lower Upper  
91 100  
106 46.6 23.2 69.6

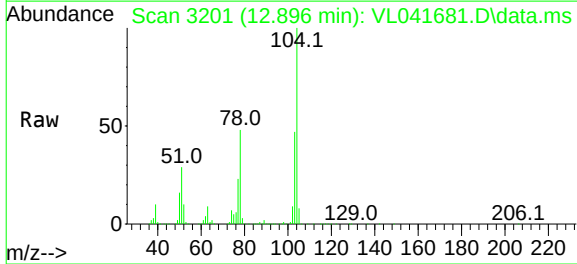






#61  
Styrene  
Concen: 12.089 ppbv  
RT: 12.896 min Scan# 3201  
Delta R.T. 0.000 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

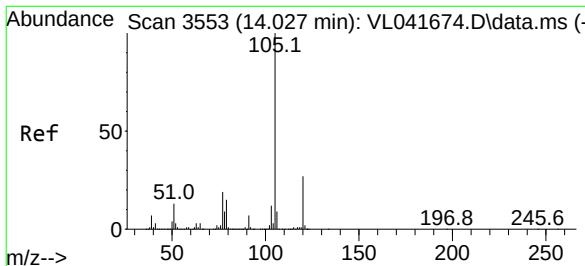
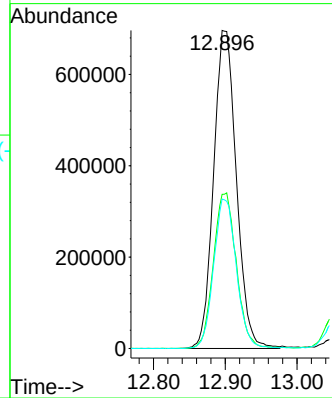
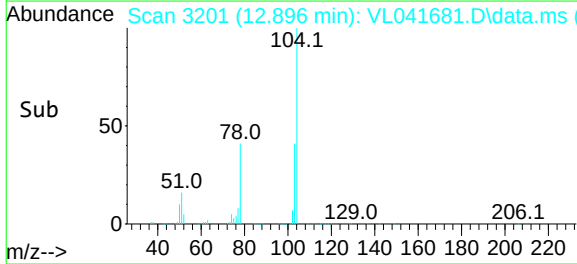
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



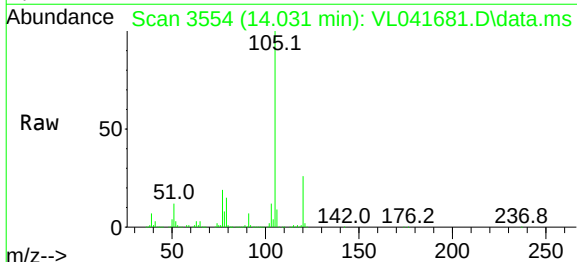
Tgt Ion:104 Resp: 1535856  
Ion Ratio Lower Upper  
104 100  
78 49.5 39.8 59.8  
103 47.1 37.4 56.0

Manual Integrations  
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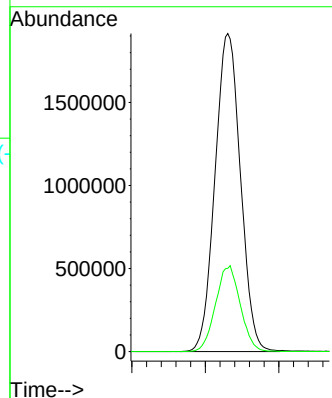
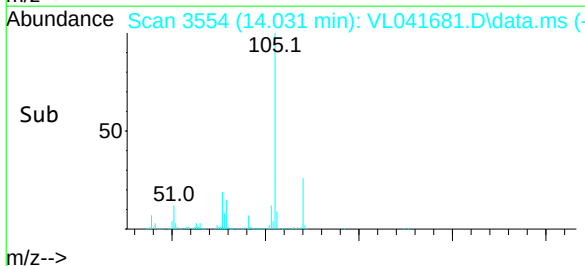
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

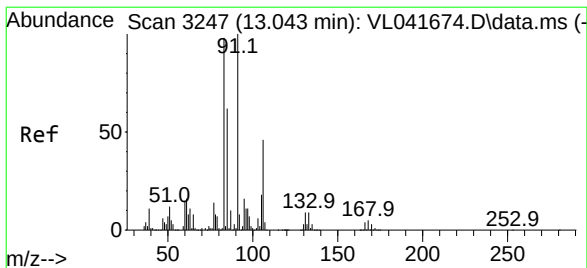


#62  
Isopropylbenzene  
Concen: 9.687 ppbv  
RT: 14.031 min Scan# 3554  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



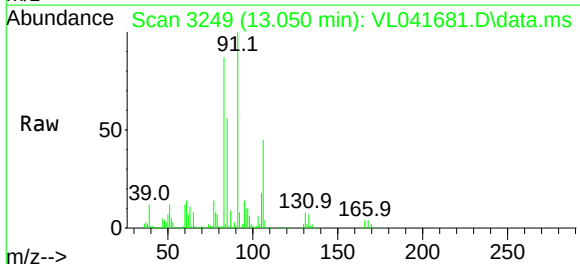
Tgt Ion:105 Resp: 4605291  
Ion Ratio Lower Upper  
105 100  
120 26.2 21.1 31.7





#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.458 ppbv  
RT: 13.050 min Scan# 3247  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

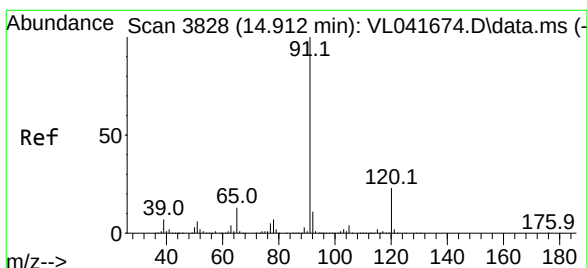
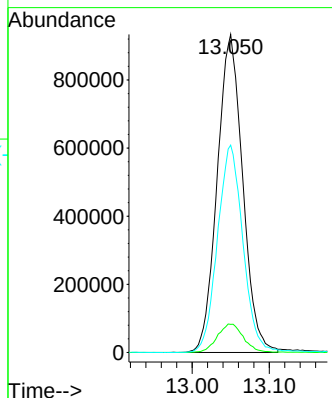
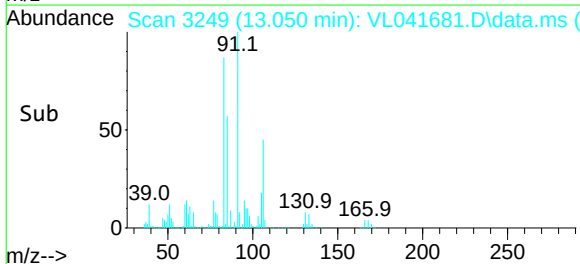
Instrument : MSVOA\_L  
ClientSampleId : ICVVL110724



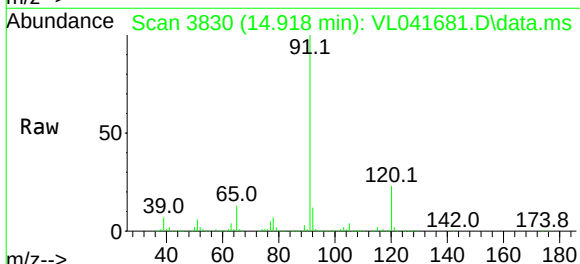
Tgt Ion: 83 Resp: 2141628  
Ion Ratio Lower Upper  
83 100  
131 9.3 4.8 14.3  
85 65.7 32.6 98.0

Manual Integrations  
APPROVED

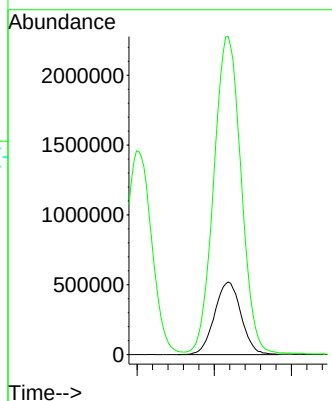
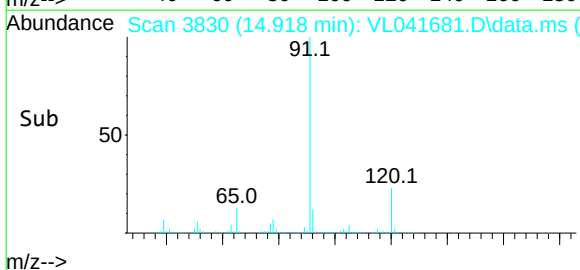
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

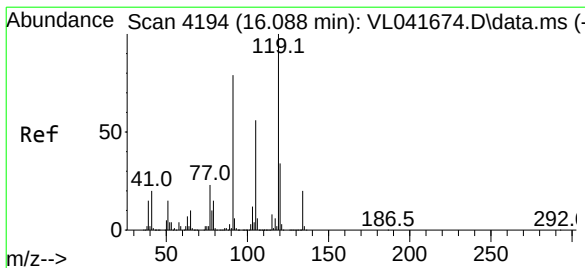


#64  
n-propylbenzene  
Concen: 9.983 ppbv  
RT: 14.918 min Scan# 3830  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



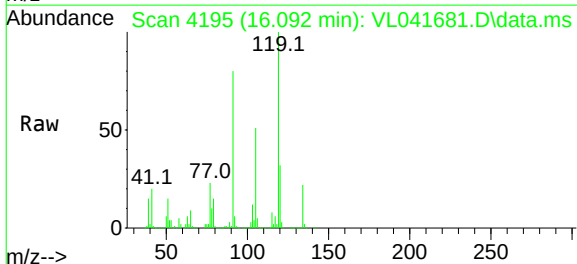
Tgt Ion:120 Resp: 1242370  
Ion Ratio Lower Upper  
120 100  
91 453.8 362.4 543.6





#65  
tert-Butylbenzene  
Concen: 9.661 ppbv  
RT: 16.092 min Scan# 4194  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

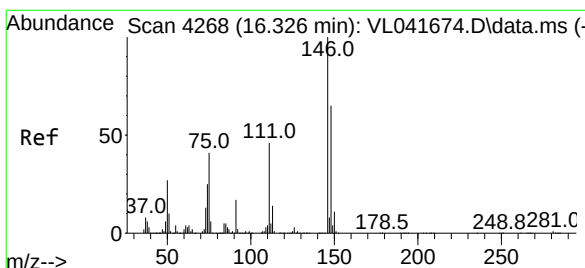
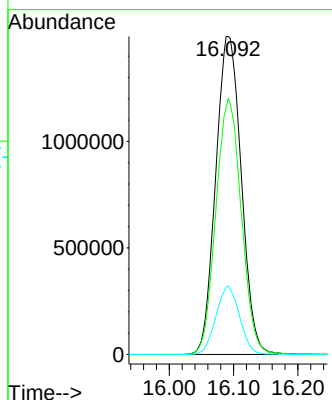
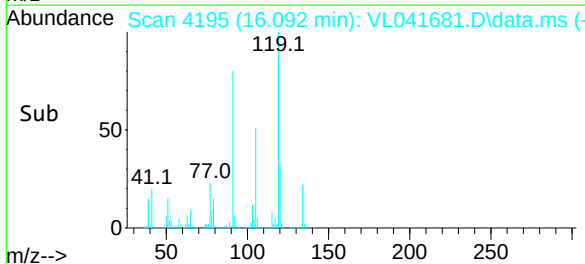
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



Tgt Ion: 119 Resp: 4128166  
Ion Ratio Lower Upper  
119 100  
91 80.0 64.3 96.5  
134 19.9 15.8 23.8

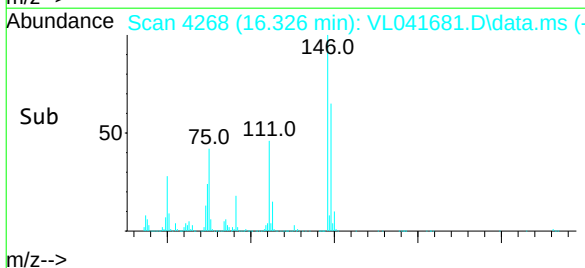
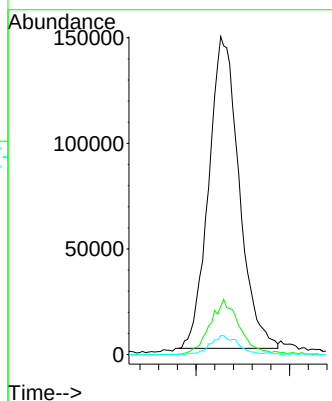
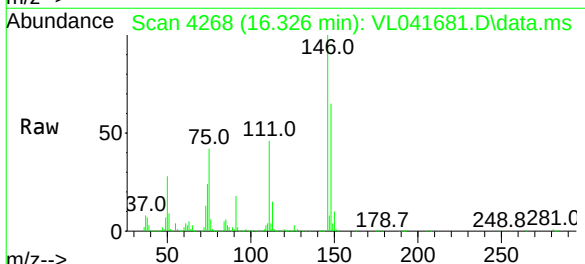
Manual Integrations  
APPROVED

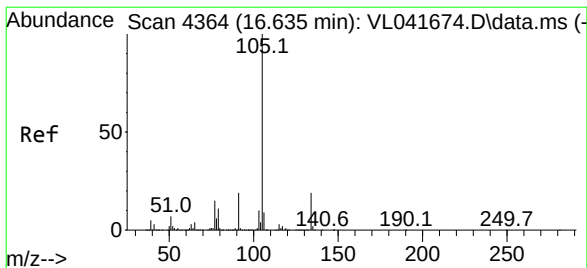
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#66  
Benzyl Chloride  
Concen: 10.145 ppbv  
RT: 16.326 min Scan# 4268  
Delta R.T. 0.000 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

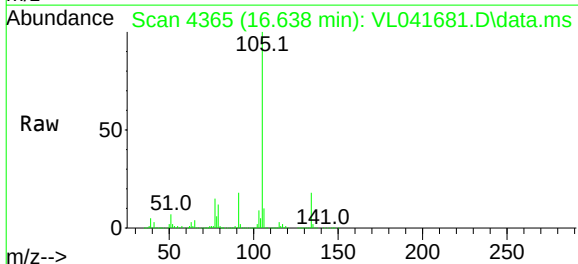
Tgt Ion: 91 Resp: 333479  
Ion Ratio Lower Upper  
91 100  
126 17.7 13.8 20.6  
128 5.8 4.3 6.5





#67  
sec-Butylbenzene  
Concen: 9.584 ppbv  
RT: 16.638 min Scan# 4364  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

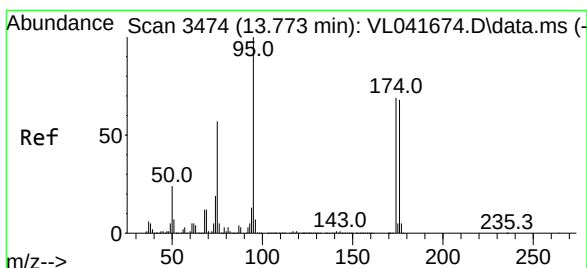
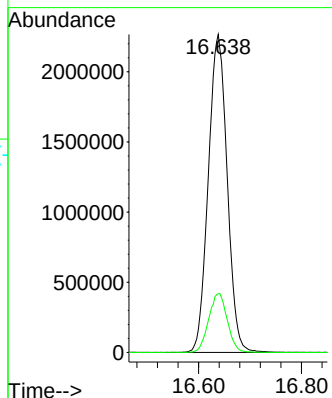
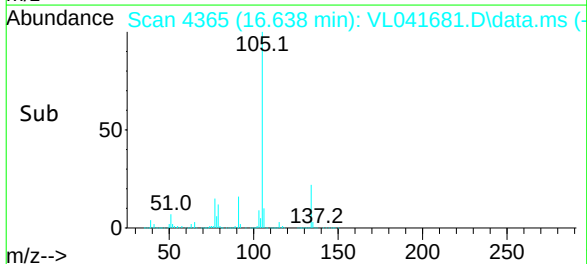
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



Tgt Ion:105 Resp: 5771671  
Ion Ratio Lower Upper  
105 100  
134 18.4 14.6 22.0

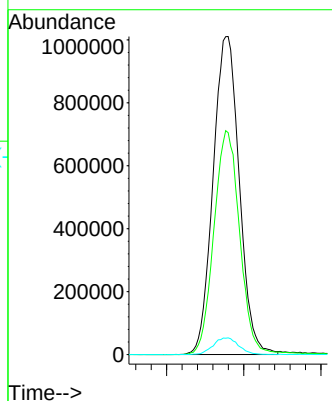
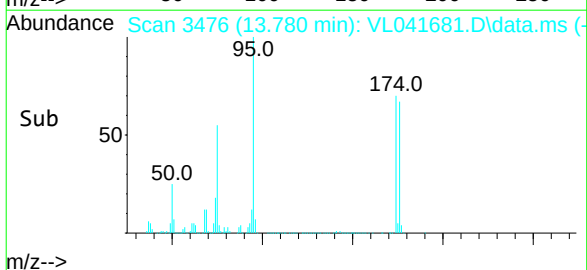
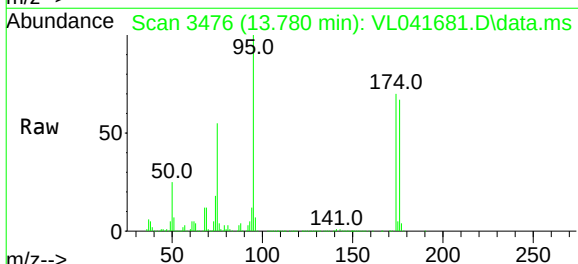
Manual Integrations  
APPROVED

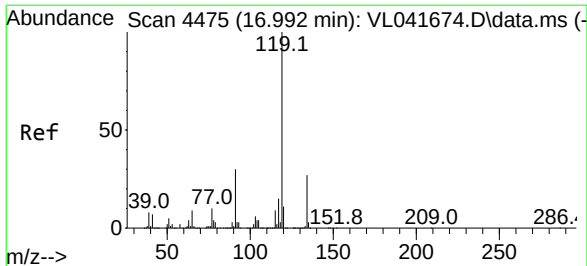
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.843 ppbv  
RT: 13.780 min Scan# 3476  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 95 Resp: 2384630  
Ion Ratio Lower Upper  
95 100  
174 69.7 55.6 83.4  
175 5.2 4.2 6.2





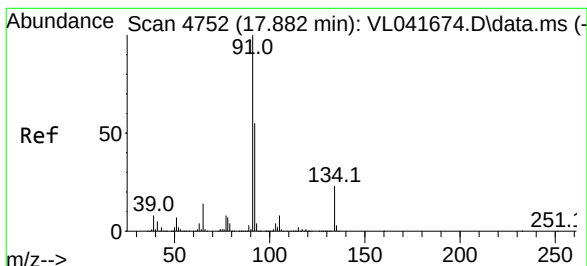
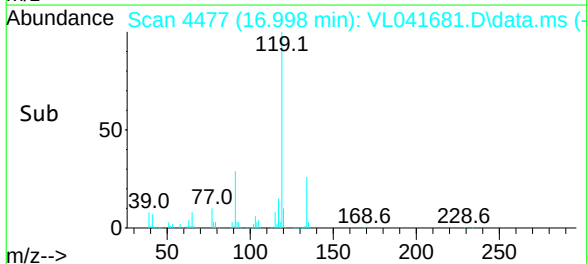
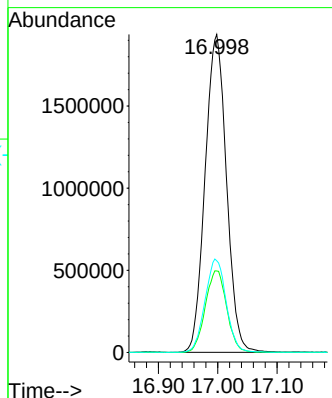
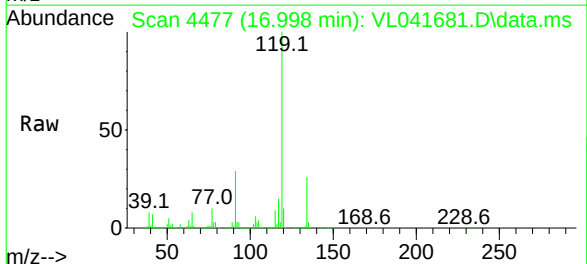
#69  
p-Isopropyltoluene  
Concen: 9.944 ppbv  
RT: 16.998 min Scan# 4477  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

Tgt Ion:119 Resp: 4841188  
Ion Ratio Lower Upper  
119 100  
134 25.9 20.8 31.2  
91 29.0 23.2 34.8

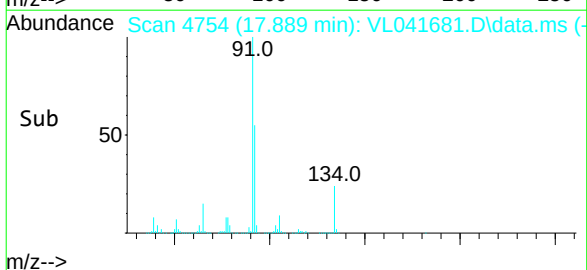
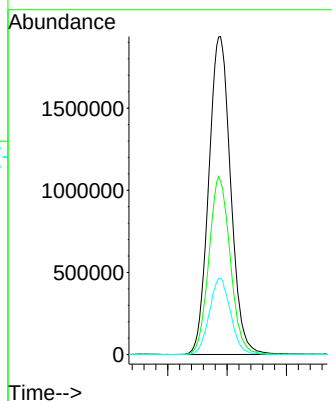
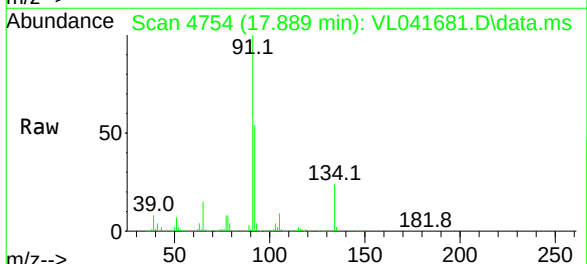
Manual Integrations  
APPROVED

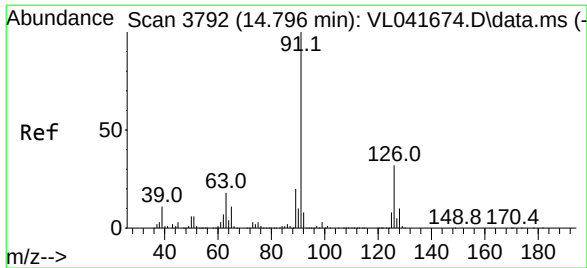
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#70  
n-Butylbenzene  
Concen: 9.960 ppbv  
RT: 17.889 min Scan# 4754  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

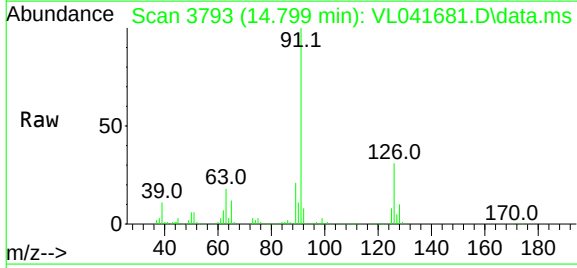
Tgt Ion: 91 Resp: 4961330  
Ion Ratio Lower Upper  
91 100  
92 54.5 43.3 64.9  
134 23.3 18.4 27.6





#71  
2-Chlorotoluene  
Concen: 10.121 ppbv  
RT: 14.799 min Scan# 3792  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

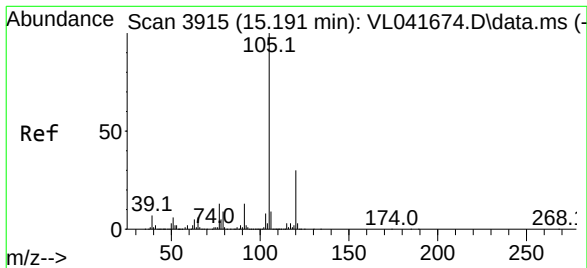
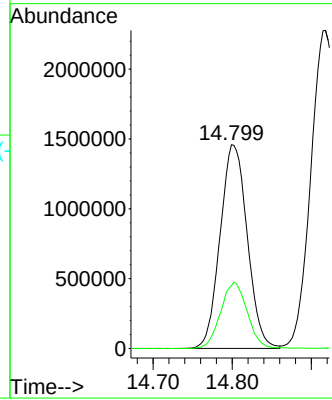
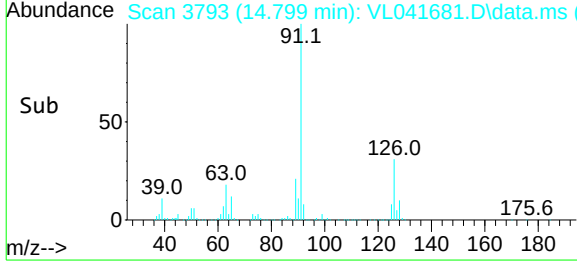
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



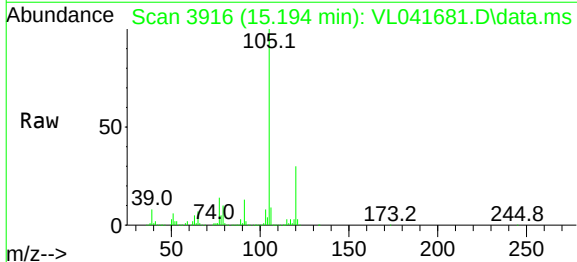
Tgt Ion: 91 Resp: 3477879  
Ion Ratio Lower Upper  
91 100  
126 32.1 12.8 51.0

Manual Integrations  
APPROVED

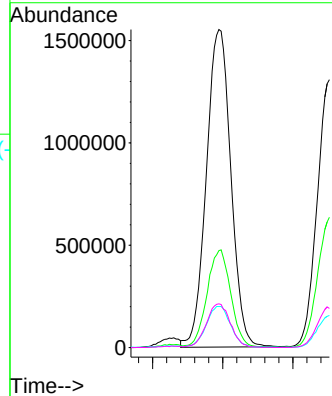
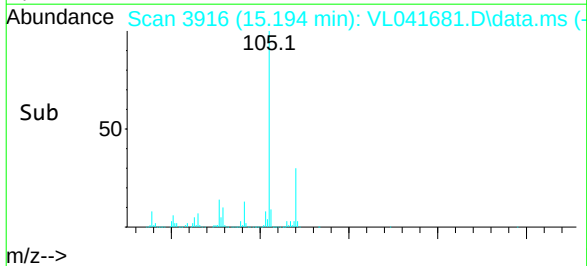
Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

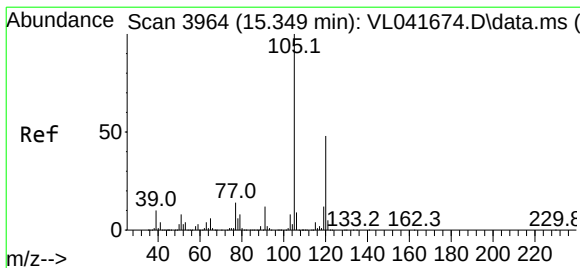


#72  
4-Ethyltoluene  
Concen: 10.522 ppbv  
RT: 15.194 min Scan# 3916  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51



Tgt Ion:105 Resp: 3765544  
Ion Ratio Lower Upper  
105 100  
120 30.8 25.0 37.4  
91 12.7 10.6 15.8  
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.077 ppbv

RT: 15.352 min Scan# 39

Delta R.T. 0.003 min

Lab File: VL041681.D

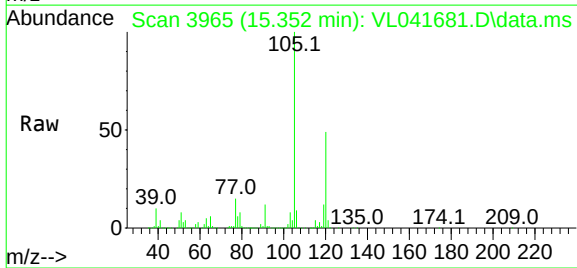
Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL110724



Tgt Ion:105 Resp: 3164645

Ion Ratio Lower Upper

105 100

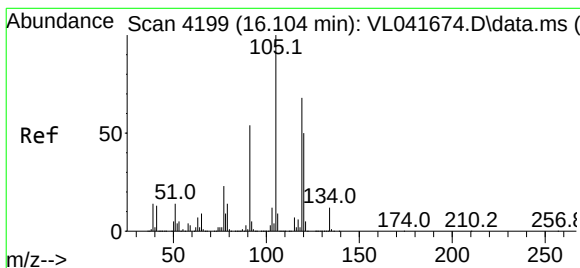
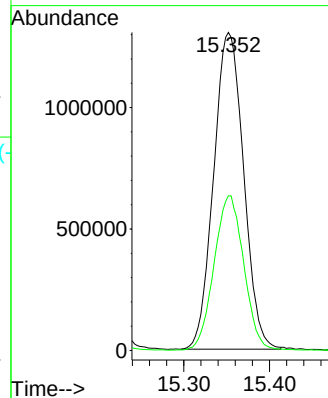
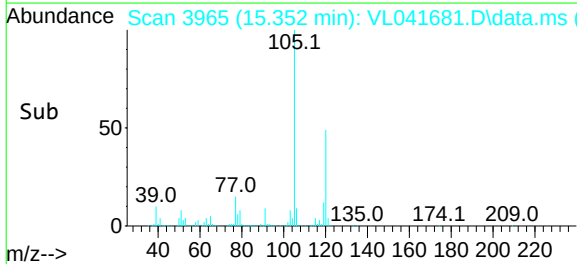
120 48.7 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#74

1,2,4-Trimethylbenzene

Concen: 9.621 ppbv

RT: 16.111 min Scan# 4201

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Tgt Ion:105 Resp: 3509579

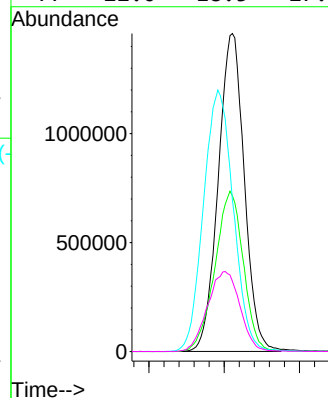
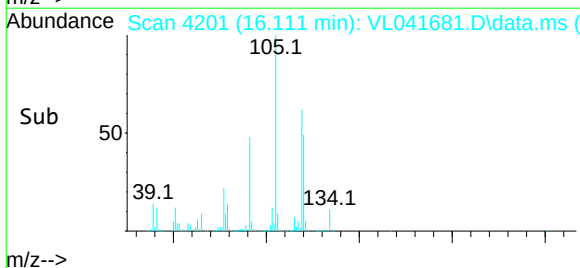
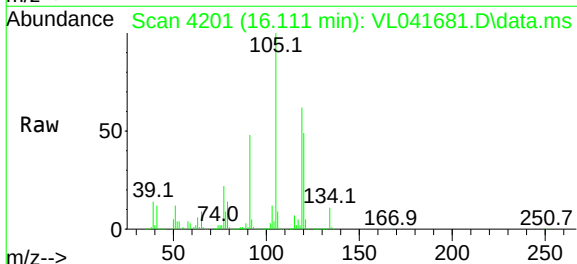
Ion Ratio Lower Upper

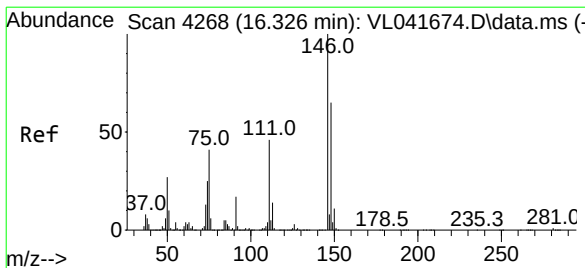
105 100

120 48.9 39.8 59.8

91 47.4 43.2 64.8

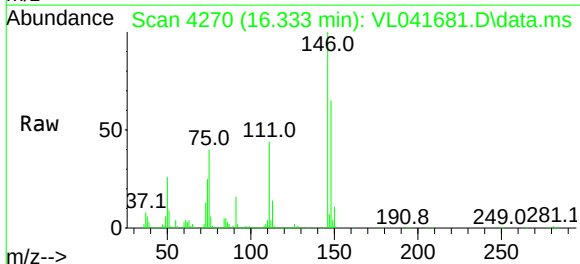
77 22.0 18.5 27.7





#75  
1,3-Dichlorobenzene  
Concen: 9.530 ppbv  
RT: 16.333 min Scan# 4268  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

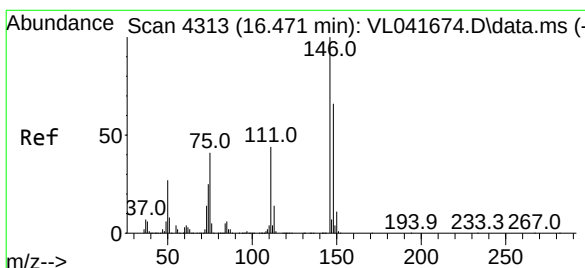
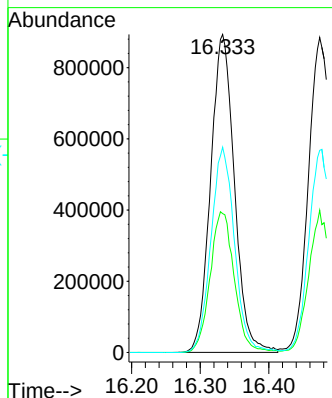
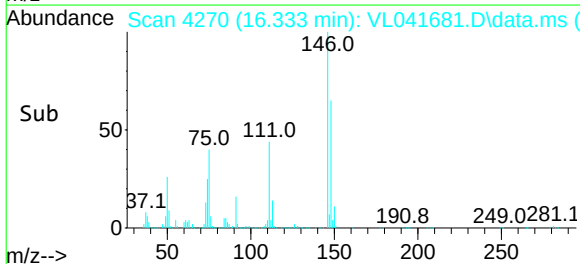
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724



Tgt Ion:146 Resp: 2153016  
Ion Ratio Lower Upper  
146 100  
111 45.1 22.8 68.3  
148 64.3 32.4 97.0

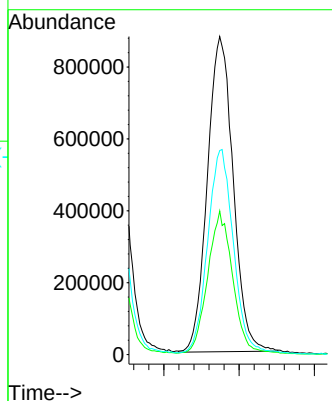
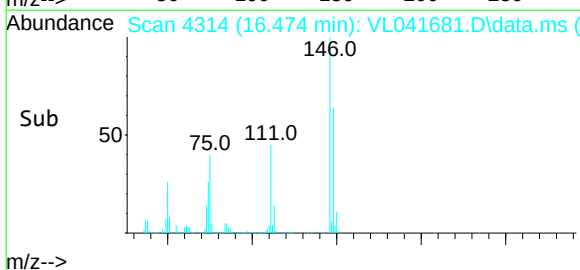
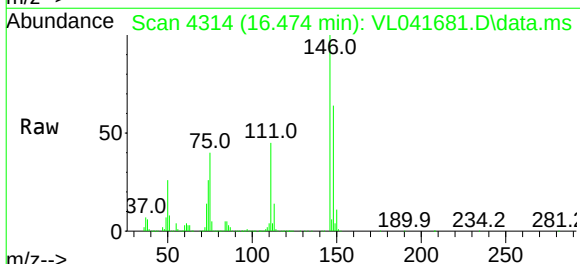
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024

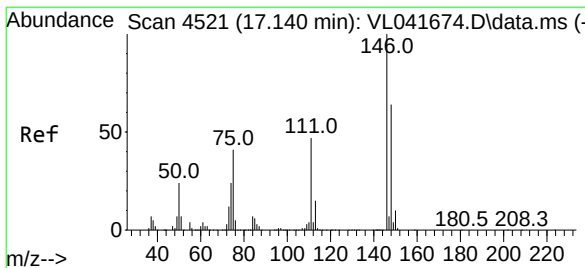


#76  
1,4-Dichlorobenzene  
Concen: 9.578 ppbv  
RT: 16.474 min Scan# 4314  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion:146 Resp: 2087766  
Ion Ratio Lower Upper  
146 100  
111 44.7 22.1 66.3  
148 65.8 33.3 99.8







#77

1,2-Dichlorobenzene

Concen: 9.280 ppbv

RT: 17.146 min Scan# 45

Delta R.T. 0.006 min

Lab File: VL041681.D

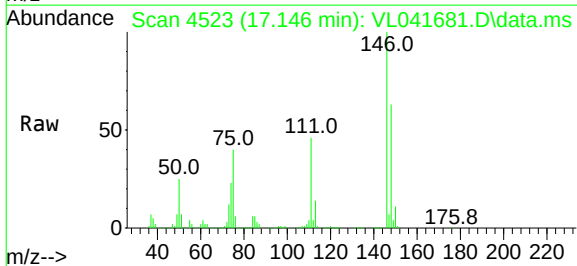
Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL110724



Tgt Ion:146 Resp: 2076942

Ion Ratio Lower Upper

146 100

111 0.0 23.4 70.3

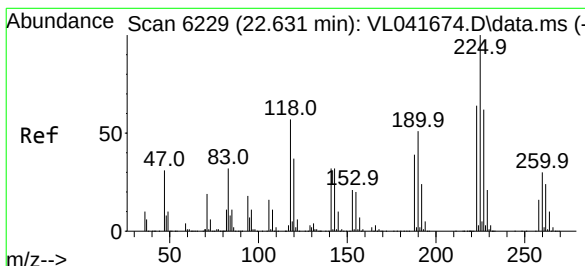
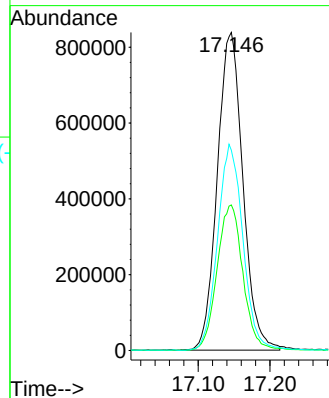
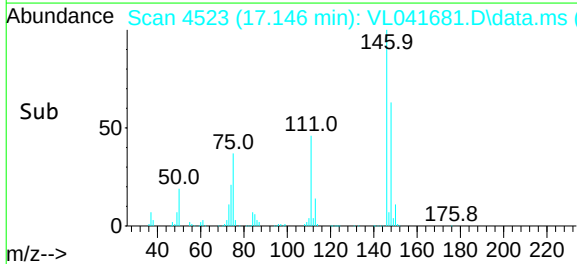
148 64.3 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#78

Hexachloro-1,3-Butadiene

Concen: 7.801 ppbv

RT: 22.635 min Scan# 6230

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

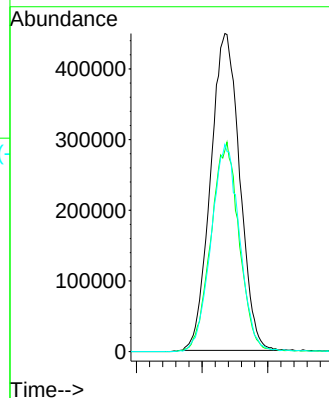
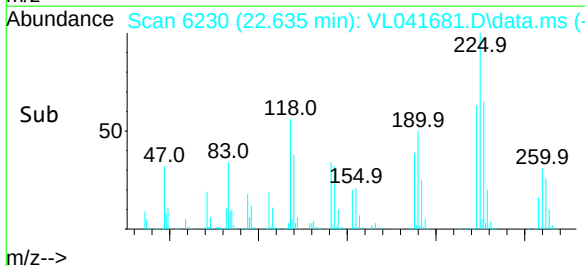
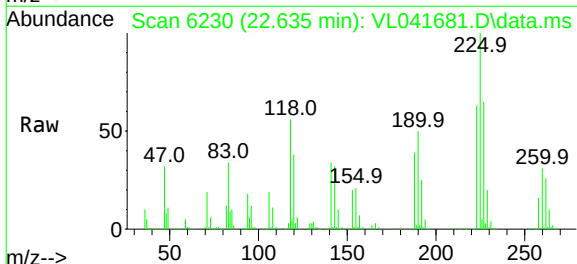
Tgt Ion:225 Resp: 1380777

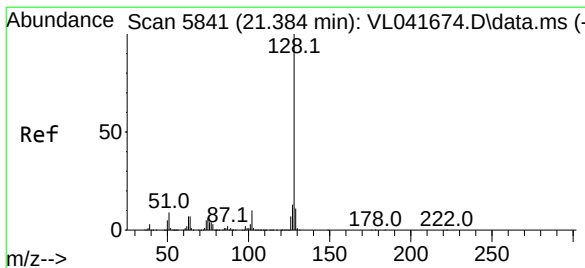
Ion Ratio Lower Upper

225 100

223 64.4 51.1 76.7

227 64.3 51.3 76.9





#79

Naphthalene

Concen: 12.229 ppbv

RT: 21.384 min Scan# 5841

Delta R.T. 0.000 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

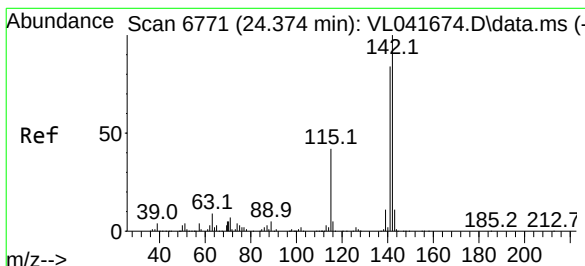
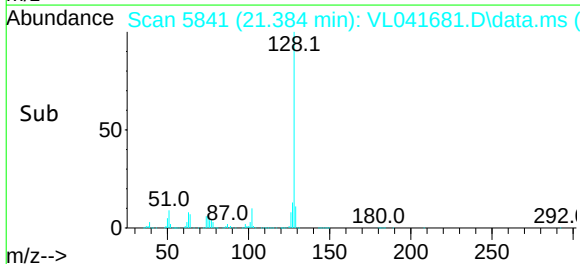
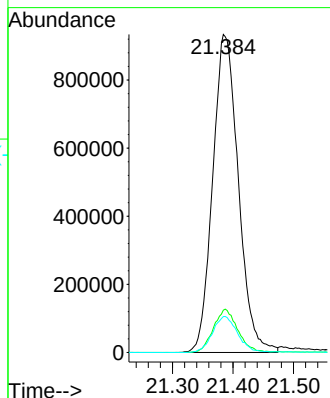
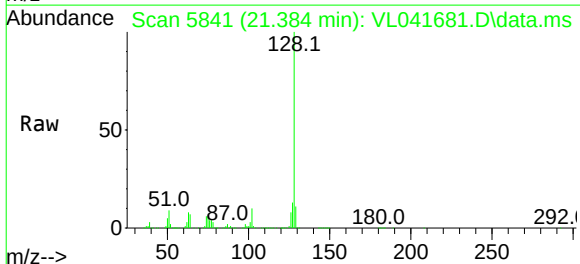
ICVVL110724

Tgt Ion:128 Resp: 2753473

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.3  | 10.5  | 15.7  |
| 129 | 11.3  | 8.7   | 13.1  |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



#80

Naphthalene,2-methyl-

Concen: 11.866 ppbv

RT: 24.374 min Scan# 6771

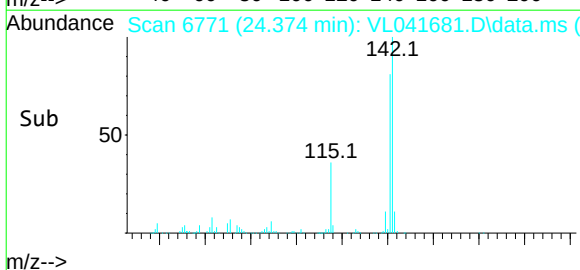
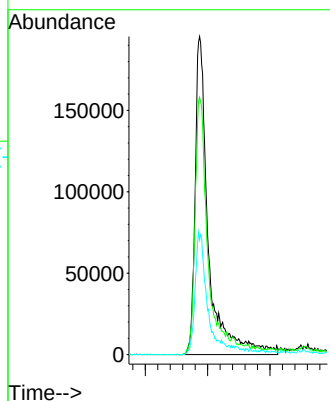
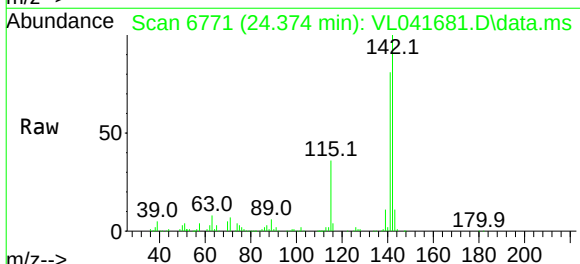
Delta R.T. 0.000 min

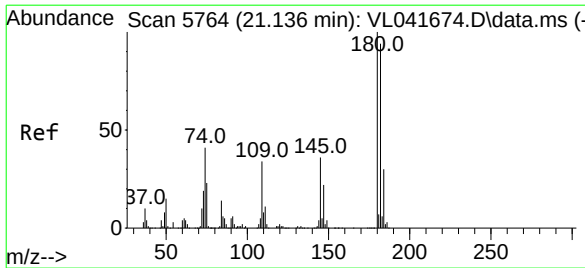
Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Tgt Ion:142 Resp: 582436

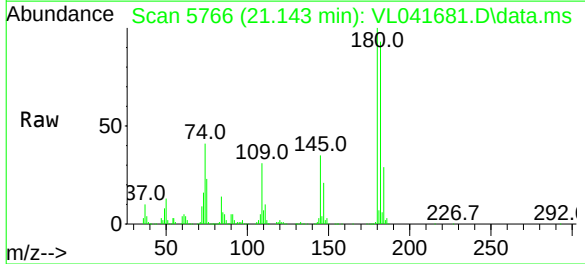
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 79.2  | 68.1  | 102.1 |
| 115 | 36.8  | 33.1  | 49.7  |





#81  
1,2,4-Trichlorobenzene  
Concen: 9.985 ppbv  
RT: 21.143 min Scan# 5766  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

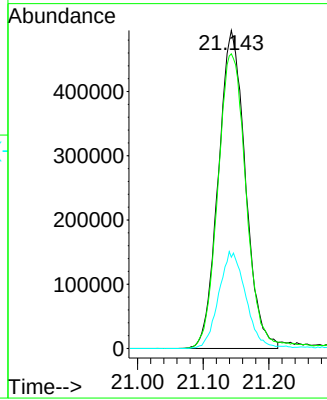
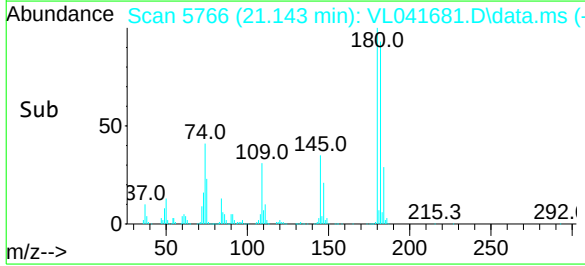


Tgt Ion:180 Resp: 1413826

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 97.5  | 78.2  | 117.2 |
| 184 | 31.2  | 25.0  | 37.4  |

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
Supervised By :Semsettin Yesilyurt 11/09/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
Data File : VL041681.D  
Acq On : 7 Nov 2024 14:51  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

Quant Time: Nov 08 01:08:38 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 01:01:00 2024  
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   | 104   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.807 | 1.472  | 18.5  | 81    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.303 | 1.173  | 10.0  | 103   | 0.00     |
| 4    | Chloromethane               | 0.690 | 0.646  | 6.4   | 104   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.621 | 0.635  | -2.3  | 106   | 0.00     |
| 6 T  | Bromomethane                | 0.329 | 0.311  | 5.5   | 102   | 0.00     |
| 7    | Chloroethane                | 0.227 | 0.218  | 4.0   | 102   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.613 | 1.438  | 10.8  | 101   | 0.00     |
| 9 T  | Propene                     | 0.568 | 0.562  | 1.1   | 110   | 0.00     |
| 10 T | Heptane                     | 1.272 | 1.331  | -4.6  | 106   | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.574 | 1.407  | 10.6  | 99    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.144 | 1.056  | 7.7   | 102   | 0.00     |
| 13   | Ethanol                     | 0.035 | 0.034# | 2.9   | 124   | 0.00     |
| 14 T | Bromoethene                 | 0.460 | 0.449  | 2.4   | 108   | 0.00     |
| 15 T | Acetone                     | 1.231 | 1.073  | 12.8  | 102   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.621 | 0.625  | -0.6  | 104   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.080 | 1.166  | -8.0  | 117   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.502 | 0.483  | 3.8   | 106   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.588 | 0.625  | -6.3  | 118   | 0.00     |
| 20 T | Methylene Chloride          | 0.453 | 0.403  | 11.0  | 105   | 0.00     |
| 21 T | Allyl Chloride              | 0.761 | 0.781  | -2.6  | 107   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.499 | 0.494  | 1.0   | 106   | 0.00     |
| 23 T | Vinyl Acetate               | 0.543 | 0.541  | 0.4   | 110   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.114 | 1.022  | 8.3   | 102   | 0.00     |
| 25 T | Ethyl Acetate               | 2.548 | 2.509  | 1.5   | 106   | 0.00     |
| 26 T | Hexane                      | 0.979 | 1.002  | -2.3  | 108   | 0.00     |
| 27 T | Carbon Disulfide            | 1.100 | 1.171  | -6.5  | 104   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.630 | 0.627  | 0.5   | 114   | 0.00     |
| 29 T | Chloroform                  | 1.616 | 1.481  | 8.4   | 101   | 0.00     |
| 30 T | Cyclohexane                 | 0.833 | 0.850  | -2.0  | 107   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 0.942 | 0.977  | -3.7  | 109   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.474 | 1.474  | 0.0   | 103   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 104   | 0.00     |
| 34 T | 2-Butanone                  | 0.498 | 0.517  | -3.8  | 112   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.528 | 0.540  | -2.3  | 99    | 0.00     |
| 36 T | Benzene                     | 0.741 | 0.756  | -2.0  | 106   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.418 | 0.407  | 2.6   | 103   | 0.00     |
| 38 T | Trichloroethene             | 0.285 | 0.301  | -5.6  | 103   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.293 | 0.291  | 0.7   | 106   | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.105 | 0.111  | -5.7  | 104   | 0.00     |
| 41 T | Tetrahydrofuran             | 0.284 | 0.315  | -10.9 | 111   | 0.00     |
| 42 T | Bromodichloromethane        | 0.581 | 0.581  | 0.0   | 102   | 0.00     |
| 43   | Methyl Methacrylate         | 0.260 | 0.298  | -14.6 | 108   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.255 | 1.257  | -0.2  | 104   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.238 | 0.289  | -21.4 | 106   | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.341 | 0.395  | -15.8 | 106   | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.317 | 0.304  | 4.1   | 102   | 0.00     |
| 48 T | Dibromochloromethane        | 0.482 | 0.502  | -4.1  | 101   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041681.D  
 Acq On : 7 Nov 2024 14:51  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL110724

Quant Time: Nov 08 01:08:38 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 01:01:00 2024  
 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                 | 0.412 | 0.434 | -5.3  | 98    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.764 | 0.804 | -5.2  | 103   | 0.00     |
| 51 T | 2-Hexanone                | 0.557 | 0.630 | -13.1 | 104   | 0.00     |
| 52 T | Tetrachloroethene         | 0.252 | 0.275 | -9.1  | 104   | 0.00     |
| 53 T | Toluene                   | 0.779 | 0.857 | -10.0 | 104   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.370 | 0.409 | -10.5 | 102   | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.412 | 0.380 | 7.8   | 99    | 0.00     |
| 57 T | Chlorobenzene             | 0.740 | 0.680 | 8.1   | 100   | 0.00     |
| 58 T | Ethyl Benzene             | 1.096 | 1.173 | -7.0  | 102   | 0.00     |
| 59 T | m/p-Xylene                | 0.982 | 0.983 | -0.1  | 100   | 0.00     |
| 60 T | o-Xylene                  | 0.936 | 0.944 | -0.9  | 99    | 0.00     |
| 61 T | Styrene                   | 0.386 | 0.467 | -21.0 | 101   | 0.00     |
| 62   | Isopropylbenzene          | 1.446 | 1.401 | 3.1   | 99    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.689 | 0.651 | 5.5   | 98    | 0.00     |
| 64   | n-propylbenzene           | 0.378 | 0.378 | 0.0   | 99    | 0.00     |
| 65   | tert-Butylbenzene         | 1.299 | 1.255 | 3.4   | 99    | 0.00     |
| 66 T | Benzyl Chloride           | 0.100 | 0.101 | -1.0  | 93    | 0.00     |
| 67   | sec-Butylbenzene          | 1.831 | 1.755 | 4.2   | 99    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.737 | 0.725 | 1.6   | 100   | 0.00     |
| 69   | p-Isopropyltoluene        | 1.481 | 1.472 | 0.6   | 98    | 0.00     |
| 70   | n-Butylbenzene            | 1.515 | 1.509 | 0.4   | 99    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.045 | 1.058 | -1.2  | 99    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.088 | 1.145 | -5.2  | 100   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 0.955 | 0.962 | -0.7  | 98    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.109 | 1.067 | 3.8   | 98    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.687 | 0.655 | 4.7   | 98    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.663 | 0.635 | 4.2   | 97    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.681 | 0.632 | 7.2   | 97    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.538 | 0.420 | 21.9  | 97    | 0.00     |
| 79 T | Naphthalene               | 0.685 | 0.837 | -22.2 | 99    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.149 | 0.177 | -18.8 | 125   | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.431 | 0.430 | 0.2   | 100   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4633 SAS No.: P4633 SDG No.: P4633

Instrument ID: MSVOA\_L Calibration Date/Time: 11/20/2024 08:09

Lab File ID: VL041697.D Init. Calib. Date(s): 11/07/2024 11/07/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:15 14:12

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

| COMPOUND                       | RRF   | RRF010 | MIN RRF | %D     | MAX%D |
|--------------------------------|-------|--------|---------|--------|-------|
| Chlorodifluoromethane          | 0.467 | 0.449  |         | -3.85  | 30    |
| Dichlorodifluoromethane        | 1.807 | 1.905  |         | 5.42   | 30    |
| Ethanol                        | 0.035 | 0.031  |         | -11.43 | 30    |
| Chloromethane                  | 0.690 | 0.681  |         | -1.3   | 30    |
| Vinyl Chloride                 | 0.621 | 0.660  |         | 6.28   | 30    |
| Ethyl Acetate                  | 2.548 | 2.629  |         | 3.18   | 30    |
| Bromomethane                   | 0.329 | 0.342  |         | 3.95   | 30    |
| Chloroethane                   | 0.227 | 0.234  |         | 3.08   | 30    |
| Tetrahydrofuran                | 0.284 | 0.314  |         | 10.56  | 30    |
| Trichlorofluoromethane         | 1.574 | 1.584  |         | 0.63   | 30    |
| 1,1,2-Trichlorotrifluoroethane | 1.144 | 1.149  |         | 0.44   | 30    |
| Dichlorotetrafluoroethane      | 1.613 | 1.577  |         | -2.23  | 30    |
| Bromoethene                    | 0.460 | 0.474  |         | 3.04   | 30    |
| Propene                        | 0.568 | 0.563  |         | -0.88  | 30    |
| tert-Butyl alcohol             | 1.080 | 1.099  |         | 1.76   | 30    |
| Heptane                        | 1.272 | 1.394  |         | 9.59   | 30    |
| Isopropyl Alcohol              | 0.588 | 0.602  |         | 2.38   | 30    |
| 1,1-Dichloroethene             | 0.502 | 0.522  |         | 3.98   | 30    |
| Acetone                        | 1.231 | 1.217  |         | -1.14  | 30    |
| Carbon Disulfide               | 1.100 | 1.288  |         | 17.09  | 30    |
| Methyl tert-Butyl Ether        | 0.630 | 0.620  |         | -1.59  | 30    |
| Methylene Chloride             | 0.453 | 0.432  |         | -4.64  | 30    |
| trans-1,2-Dichloroethene       | 0.499 | 0.530  |         | 6.21   | 30    |
| Vinyl Acetate                  | 0.543 | 0.566  |         | 4.24   | 30    |
| 1,1-Dichloroethane             | 1.114 | 1.148  |         | 3.05   | 30    |
| Cyclohexane                    | 0.833 | 0.887  |         | 6.48   | 30    |
| 2-Butanone                     | 0.498 | 0.485  |         | -2.61  | 30    |
| Carbon Tetrachloride           | 0.528 | 0.592  |         | 12.12  | 30    |
| cis-1,2-Dichloroethene         | 0.942 | 0.999  |         | 6.05   | 30    |
| Chloroform                     | 1.616 | 1.636  |         | 1.24   | 30    |
| 1,1,1-Trichloroethane          | 1.474 | 1.573  |         | 6.72   | 30    |
| 2,2,4-Trimethylpentane         | 1.255 | 1.323  |         | 5.42   | 30    |
| Benzene                        | 0.741 | 0.784  |         | 5.8    | 30    |
| 1,2-Dichloroethane             | 0.418 | 0.435  |         | 4.07   | 30    |
| Trichloroethene                | 0.285 | 0.318  |         | 11.58  | 30    |
| 1,2-Dichloropropane            | 0.293 | 0.303  |         | 3.41   | 30    |
| Bromodichloromethane           | 0.581 | 0.621  |         | 6.89   | 30    |
| 4-Methyl-2-Pentanone           | 0.764 | 0.837  |         | 9.56   | 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: CHEM02

Lab Code: CHEM Case No.: P4633 SAS No.: P4633 SDG No.: P4633

Instrument ID: MSVOA\_L Calibration Date/Time: 11/20/2024 08:09

Lab File ID: VL041697.D Init. Calib. Date(s): 11/07/2024 11/07/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:15 14:12

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

| COMPOUND                  | RRF     | RRF010  | MIN<br>RRF | %D    | MAX%D |
|---------------------------|---------|---------|------------|-------|-------|
| Toluene                   | 0.779   | 0.897   |            | 15.15 | 30    |
| t-1,3-Dichloropropene     | 0.238   | 0.301   |            | 26.47 | 30    |
| cis-1,3-Dichloropropene   | 0.341   | 0.407   |            | 19.35 | 30    |
| 1,1,2-Trichloroethane     | 0.317   | 0.324   |            | 2.21  | 30    |
| 2-Hexanone                | 0.557   | 0.655   |            | 17.59 | 30    |
| Dibromochloromethane      | 0.482   | 0.536   |            | 11.2  | 30    |
| 1,2-Dibromoethane         | 0.370   | 0.435   |            | 17.57 | 30    |
| Tetrachloroethene         | 0.252   | 0.286   |            | 13.49 | 30    |
| Chlorobenzene             | 0.740   | 0.714   |            | -3.51 | 30    |
| Ethyl Benzene             | 1.096   | 1.221   |            | 11.4  | 30    |
| m/p-Xylene                | 0.982   | 1.041   |            | 6.01  | 30    |
| o-Xylene                  | 0.936   | 1.009   |            | 7.8   | 30    |
| Styrene                   | 0.386   | 0.484   |            | 25.39 | 30    |
| Bromoform                 | 0.412   | 0.475   |            | 15.29 | 30    |
| Isopropylbenzene          | 1.446   | 1.487   |            | 2.84  | 30    |
| 1,1,2,2-Tetrachloroethane | 0.689   | 0.703   |            | 2.03  | 30    |
| 2-Chlorotoluene           | 1.045   | 1.125   |            | 7.66  | 30    |
| 1,3,5-Trimethylbenzene    | 0.955   | 1.026   |            | 7.43  | 30    |
| 1,2,4-Trimethylbenzene    | 1.109   | 1.143   |            | 3.07  | 30    |
| 1,3-Dichlorobenzene       | 0.687   | 0.705   |            | 2.62  | 30    |
| 1,4-Dichlorobenzene       | 0.663   | 0.694   |            | 4.68  | 30    |
| 1,2-Dichlorobenzene       | 0.681   | 0.683   |            | 0.29  | 30    |
| 1,2,4-Trichlorobenzene    | 0.431   | 0.458   |            | 6.26  | 30    |
| Hexachloro-1,3-Butadiene  | 0.538   | 0.453   |            | -15.8 | 30    |
| 1,3-Butadiene             | 0.621   | 0.667   |            | 7.41  | 30    |
| Naphthalene               | 0.685   | 0.892   |            | 30.22 | 30    |
| 4-Ethyltoluene            | 1.088   | 1.197   |            | 10.02 | 30    |
| 1-Bromo-4-Fluorobenzene   | 0.737   | 0.734   |            | -0.41 | 30    |
| Hexane                    | 0.979   | 1.034   |            | 5.62  | 30    |
| Allyl Chloride            | 0.761   | 0.820   |            | 7.75  | 30    |
| Benzyl Chloride           | 0.100   | 0.118   |            | 18    | 30    |
| 1,4-Dioxane               | 105.056 | 115.887 |            | 10.31 | 30    |
| Methyl Methacrylate       | 0.260   | 0.300   |            | 15.39 | 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\VL112024\  
 Data File : VL041697.D  
 Acq On : 20 Nov 2024 8:09  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Nov 21 05:07:41 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Nov 08 01:01:00 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/21/2024  
 Supervised By : Mahesh Dadoda 11/21/2024

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.205  | 49   | 1123466  | 10.000 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 6.668  | 114  | 3154537  | 10.000 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 11.481 | 117  | 3148626m | 10.000 | ppbv  | 0.02     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 13.786 | 95    | 2309915  | 9.957    | ppbv | 0.01    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.600% |

| Target Compounds              | Qvalue |     |         |        |      |     |
|-------------------------------|--------|-----|---------|--------|------|-----|
| 2) Dichlorodifluoromethane    | 2.739  | 85  | 2140449 | 10.541 | ppbv | 99  |
| 3) Chlorodifluoromethane      | 2.684  | 51  | 1415484 | 9.670  | ppbv | 99  |
| 4) Chloromethane              | 2.822  | 50  | 765196  | 9.869  | ppbv | 97  |
| 5) Vinyl Chloride             | 2.931  | 62  | 741512  | 10.631 | ppbv | 98  |
| 6) Bromomethane               | 3.131  | 94  | 384455  | 10.391 | ppbv | 99  |
| 7) Chloroethane               | 3.208  | 64  | 262500  | 10.312 | ppbv | 99  |
| 8) Dichlorotetrafluoroethane  | 2.867  | 85  | 1772200 | 9.777  | ppbv | 99  |
| 9) Propene                    | 2.703  | 41  | 632787  | 9.921  | ppbv | 99  |
| 10) Heptane                   | 7.590  | 43  | 1565567 | 10.954 | ppbv | 100 |
| 11) Trichlorofluoromethane    | 3.575  | 101 | 1779018 | 10.058 | ppbv | 99  |
| 12) 1,1,2-Trichlorotrifluo... | 4.076  | 101 | 1291192 | 10.044 | ppbv | 100 |
| 13) Ethanol                   | 3.256  | 45  | 35224m  | 9.019  | ppbv |     |
| 14) Bromoethene               | 3.375  | 108 | 532947  | 10.312 | ppbv | 97  |
| 15) Acetone                   | 3.478  | 43  | 1367331 | 9.889  | ppbv | 100 |
| 16) 1,3-Butadiene             | 2.996  | 39  | 749348  | 10.741 | ppbv | 98  |
| 17) tert-Butyl alcohol        | 3.890  | 59  | 1234931 | 10.178 | ppbv | 100 |
| 18) 1,1-Dichloroethene        | 3.890  | 96  | 587002  | 10.411 | ppbv | 96  |
| 19) Isopropyl Alcohol         | 3.587  | 45  | 676609  | 10.238 | ppbv | 98  |
| 20) Methylene Chloride        | 3.944  | 84  | 485339  | 9.539  | ppbv | 97  |
| 21) Allyl Chloride            | 4.009  | 41  | 920766  | 10.777 | ppbv | 99  |
| 22) trans-1,2-Dichloroethene  | 4.459  | 96  | 595977  | 10.631 | ppbv | 97  |
| 23) Vinyl Acetate             | 4.639  | 43  | 635436  | 10.425 | ppbv | 98  |
| 24) 1,1-Dichloroethane        | 4.574  | 63  | 1289373 | 10.304 | ppbv | 99  |
| 25) Ethyl Acetate             | 5.214  | 43  | 2953915 | 10.321 | ppbv | 100 |
| 26) Hexane                    | 5.224  | 57  | 1161873 | 10.567 | ppbv | 99  |
| 27) Carbon Disulfide          | 4.134  | 76  | 1447099 | 11.714 | ppbv | 100 |
| 28) Methyl tert-Butyl Ether   | 4.597  | 73  | 696845  | 9.841  | ppbv | 99  |
| 29) Chloroform                | 5.288  | 83  | 1838047 | 10.127 | ppbv | 99  |
| 30) Cyclohexane               | 6.616  | 84  | 996570  | 10.644 | ppbv | 98  |
| 31) cis-1,2-Dichloroethene    | 5.092  | 61  | 1122533 | 10.612 | ppbv | 98  |
| 32) 1,1,1-Trichloroethane     | 6.015  | 97  | 1767346 | 10.673 | ppbv | 99  |
| 34) 2-Butanone                | 4.796  | 43  | 1528409 | 9.731  | ppbv | 99  |
| 35) Carbon Tetrachloride      | 6.507  | 117 | 1867710 | 11.222 | ppbv | 99  |
| 36) Benzene                   | 6.385  | 78  | 2472710 | 10.579 | ppbv | 97  |
| 37) 1,2-Dichloroethane        | 5.819  | 62  | 1372788 | 10.411 | ppbv | 99  |
| 38) Trichloroethene           | 7.304  | 130 | 1003555 | 11.179 | ppbv | 98  |
| 39) 1,2-Dichloropropane       | 7.089  | 63  | 955590  | 10.346 | ppbv | 97  |
| 40) 1,4-Dioxane               | 7.298  | 88  | 365570  | 11.031 | ppbv | 97  |
| 41) Tetrahydrofuran           | 5.568  | 42  | 989840  | 11.035 | ppbv | 100 |
| 42) Bromodichloromethane      | 7.262  | 83  | 1959114 | 10.692 | ppbv | 99  |
| 43) Methyl Methacrylate       | 7.488  | 69  | 946899  | 11.538 | ppbv | 98  |
| 44) 2,2,4-Trimethylpentane    | 7.340  | 57  | 4173715 | 10.542 | ppbv | 100 |
| 45) t-1,3-Dichloropropene     | 8.725  | 75  | 949613  | 12.663 | ppbv | 98  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112024\  
 Data File : VL041697.D  
 Acq On : 20 Nov 2024 8:09  
 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 11/21/2024  
 Supervised By : Mahesh Dadoda 11/21/2024

Quant Time: Nov 21 05:07:41 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.156  | 75   | 1284127  | 11.922 | ppbv  | 99       |
| 47) 1,1,2-Trichloroethane     | 8.915  | 97   | 1022170  | 10.225 | ppbv  | 98       |
| 48) Dibromochloromethane      | 9.725  | 129  | 1691178  | 11.129 | ppbv  | 99       |
| 49) Bromoform                 | 12.420 | 173  | 1497113  | 11.514 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.192  | 43   | 2640409  | 10.950 | ppbv  | 99       |
| 51) 2-Hexanone                | 9.561  | 43   | 2067266  | 11.773 | ppbv  | 100      |
| 52) Tetrachloroethene         | 10.629 | 164  | 902967   | 11.336 | ppbv  | 98       |
| 53) Toluene                   | 9.233  | 91   | 2828799  | 11.509 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.024 | 107  | 1372700  | 11.753 | ppbv  | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 11.523 | 131  | 1283659  | 9.885  | ppbv  | 100      |
| 57) Chlorobenzene             | 11.539 | 112  | 2247475  | 9.651  | ppbv  | 98       |
| 58) Ethyl Benzene             | 12.102 | 91   | 3843108  | 11.134 | ppbv  | 99       |
| 59) m/p-Xylene                | 12.384 | 91   | 6556478m | 21.210 | ppbv  |          |
| 60) o-Xylene                  | 13.073 | 91   | 3175724  | 10.774 | ppbv  | 99       |
| 61) Styrene                   | 12.909 | 104  | 1525338  | 12.538 | ppbv  | 99       |
| 62) Isopropylbenzene          | 14.044 | 105  | 4683267  | 10.288 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.060 | 83   | 2214634  | 10.214 | ppbv  | 99       |
| 64) n-propylbenzene           | 14.931 | 120  | 1265758  | 10.621 | ppbv  | 99       |
| 65) tert-Butylbenzene         | 16.101 | 119  | 4189774  | 10.240 | ppbv  | 100      |
| 66) Benzyl Chloride           | 16.342 | 91   | 370716   | 11.778 | ppbv  | 99       |
| 67) sec-Butylbenzene          | 16.648 | 105  | 5882804  | 10.201 | ppbv  | 99       |
| 69) p-Isopropyltoluene        | 17.008 | 119  | 4911348  | 10.535 | ppbv  | 100      |
| 70) n-Butylbenzene            | 17.899 | 91   | 5076678  | 10.643 | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 14.812 | 91   | 3541658  | 10.763 | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 15.204 | 105  | 3768131  | 10.996 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.362 | 105  | 3230569  | 10.743 | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.121 | 105  | 3599066  | 10.304 | ppbv  | 98       |
| 75) 1,3-Dichlorobenzene       | 16.346 | 146  | 2220877  | 10.266 | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 16.487 | 146  | 2183586  | 10.462 | ppbv  | 98       |
| 77) 1,2-Dichlorobenzene       | 17.156 | 146  | 2149012  | 10.028 | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.648 | 225  | 1424868  | 8.407  | ppbv  | 100      |
| 79) Naphthalene               | 21.400 | 128  | 2807004  | 13.019 | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 24.387 | 142  | 555593   | 11.821 | ppbv  | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.153 | 180  | 1441690  | 10.633 | ppbv  | 99       |

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

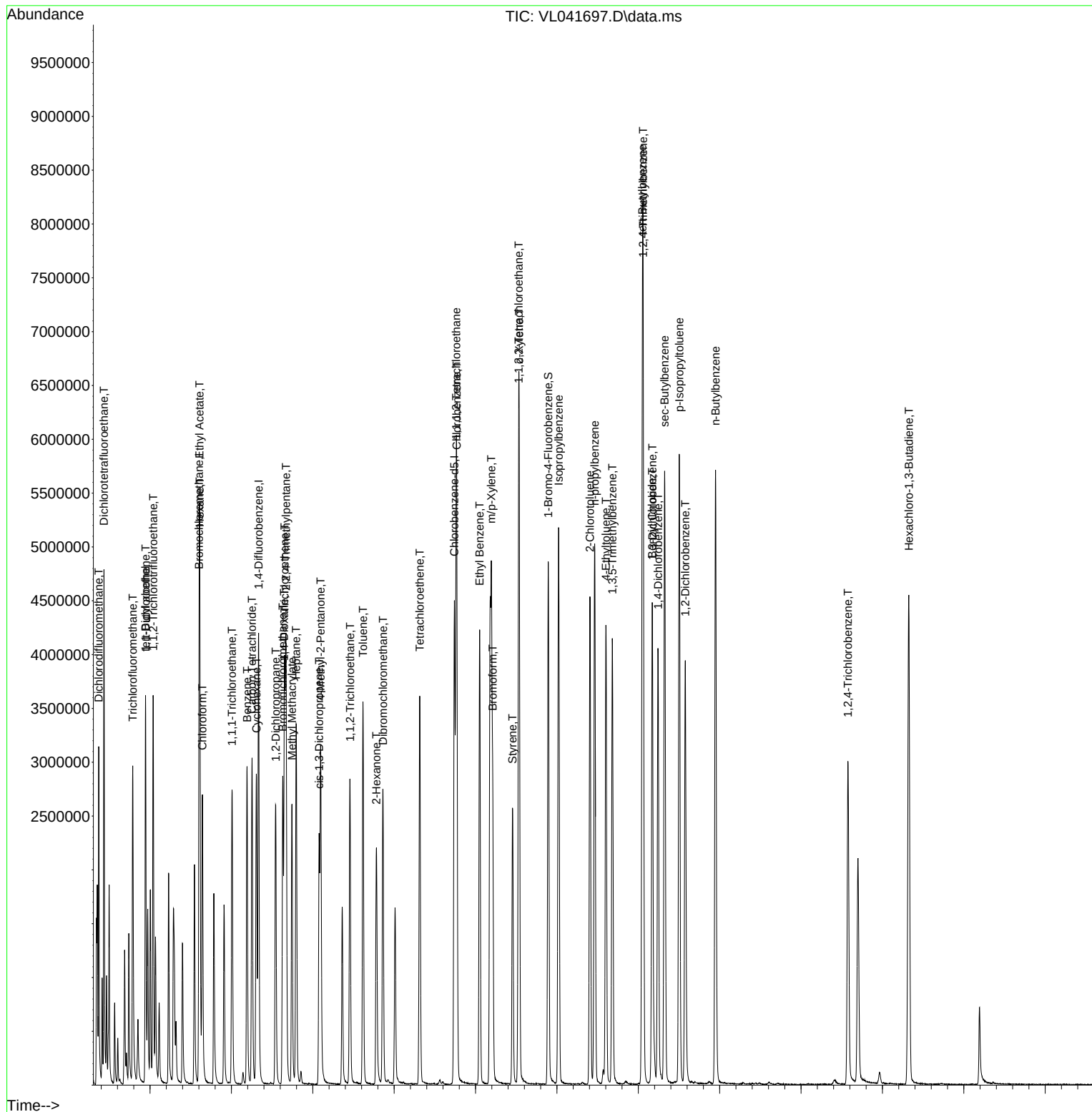
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112024\  
Data File : VL041697.D  
Acq On    : 20 Nov 2024    8:09  
Operator  : SY/MD  
Sample    : VSTDCCC010  
Misc      : 400mL/MSVOA_L  
ALS Vial  : 1    Sample Multiplier: 1
```

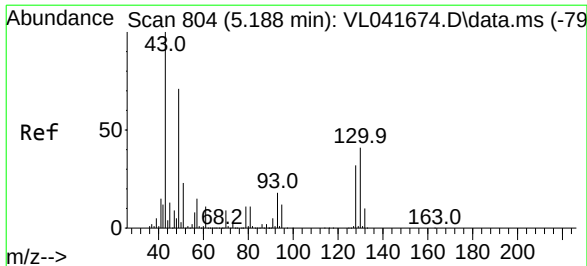
**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDCCC010

## Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

Quant Time: Nov 21 05:07:41 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Fri Nov 08 01:01:00 2024  
Response via : Initial Calibration





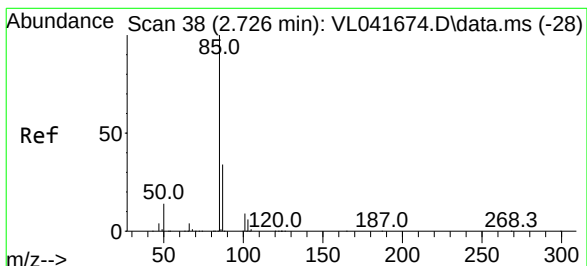
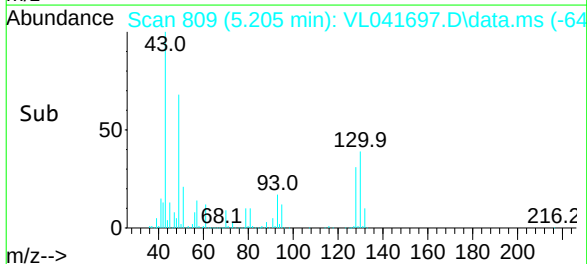
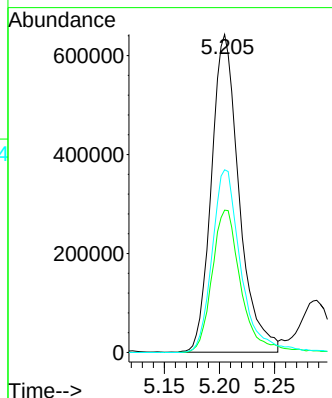
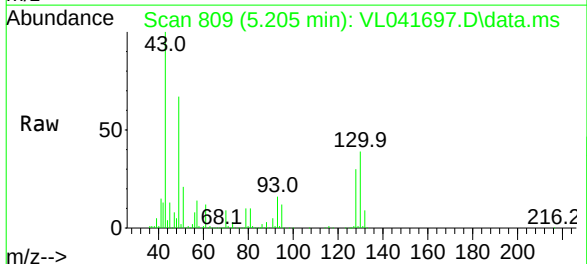
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.205 min Scan# 80  
Delta R.T. 0.017 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 49 Resp: 1123466  
Ion Ratio Lower Upper  
49 100  
128 47.1 23.8 71.2  
130 61.0 30.1 90.5

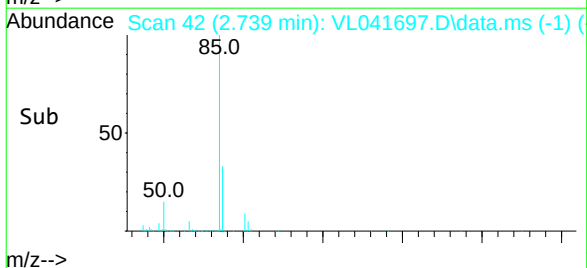
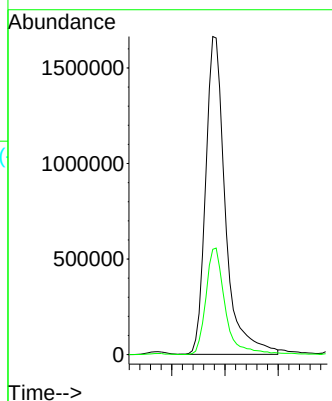
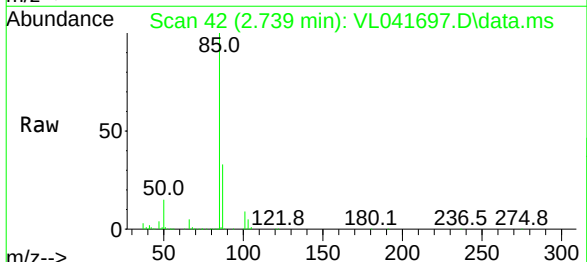
Manual Integrations  
APPROVED

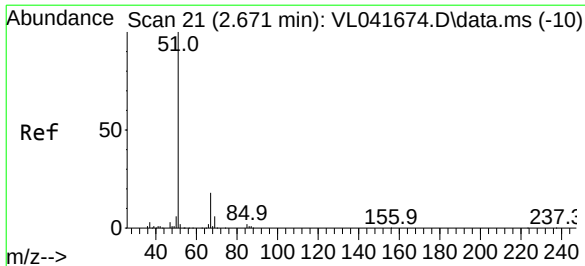
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#2  
Dichlorodifluoromethane  
Concen: 10.541 ppbv  
RT: 2.739 min Scan# 42  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

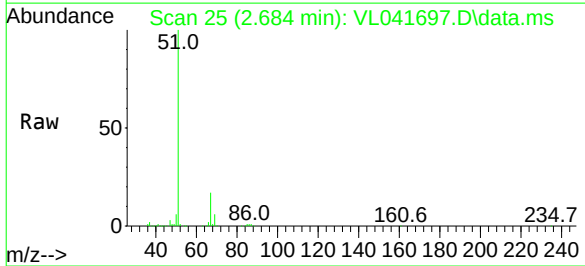
Tgt Ion: 85 Resp: 2140449  
Ion Ratio Lower Upper  
85 100  
87 33.1 26.8 40.2





#3  
Chlorodifluoromethane  
Concen: 9.670 ppbv  
RT: 2.684 min Scan# 25  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

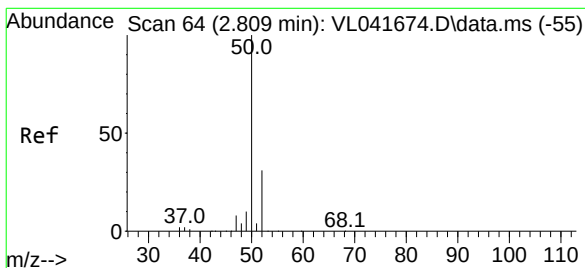
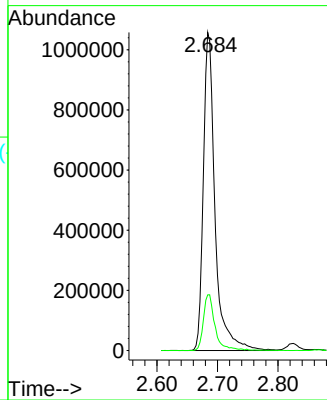
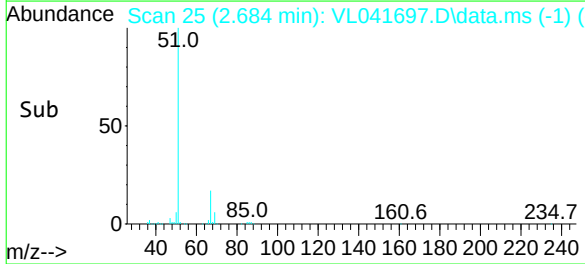
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 51 Resp: 1415484  
Ion Ratio Lower Upper  
51 100  
67 17.6 13.9 20.9

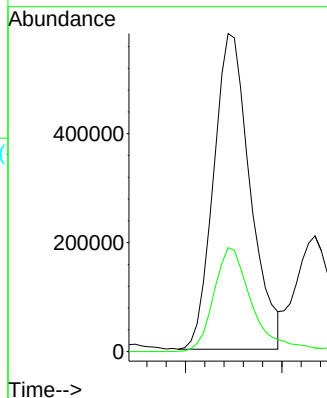
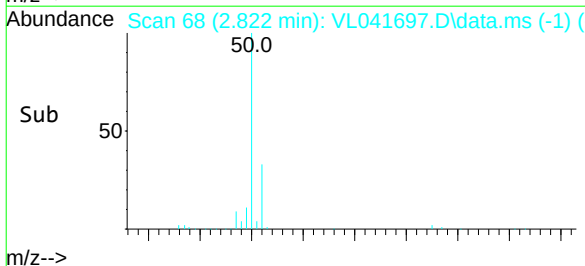
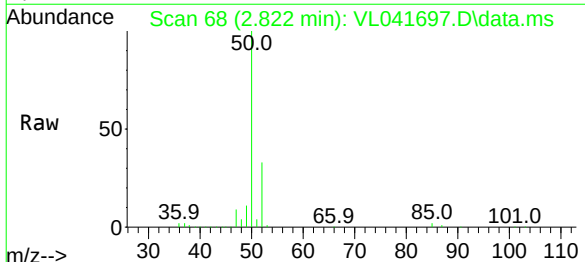
Manual Integrations  
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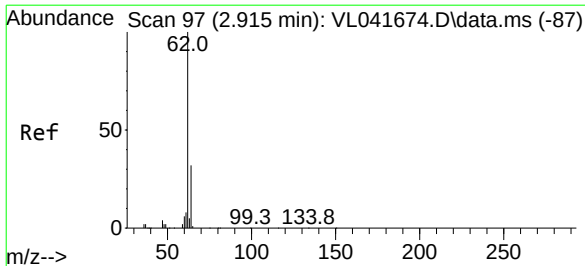
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#4  
Chloromethane  
Concen: 9.869 ppbv  
RT: 2.822 min Scan# 68  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 50 Resp: 765196  
Ion Ratio Lower Upper  
50 100  
52 32.8 24.9 37.3





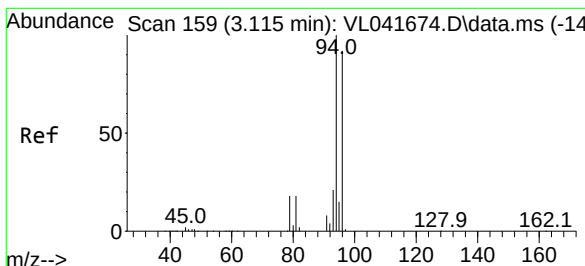
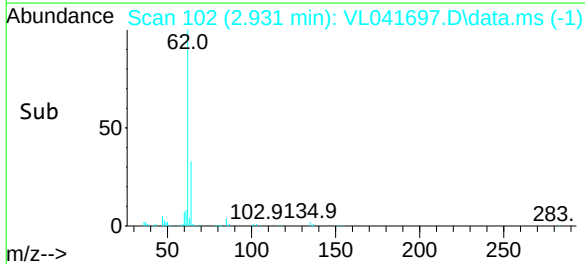
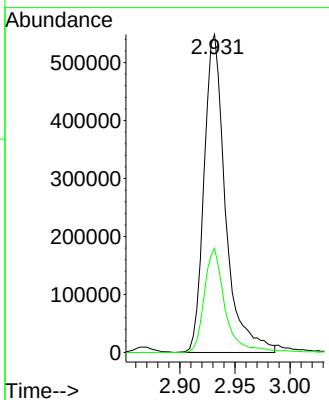
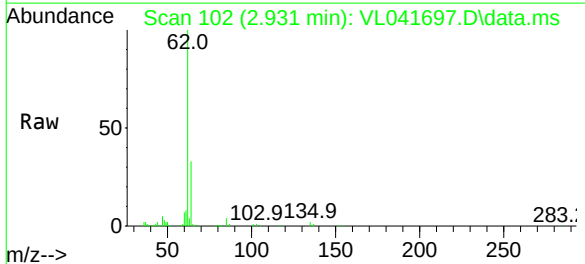
#5  
 Vinyl Chloride  
 Concen: 10.631 ppbv  
 RT: 2.931 min Scan# 10  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 62 Resp: 741512  
 Ion Ratio Lower Upper  
 62 100  
 64 32.8 25.4 38.2

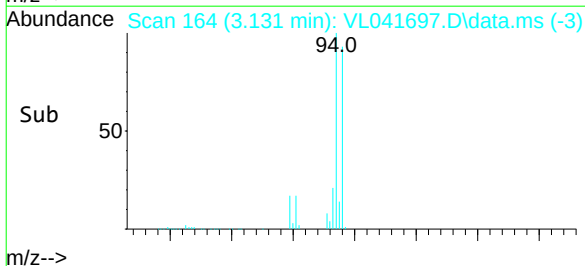
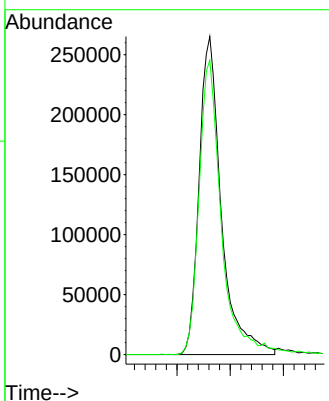
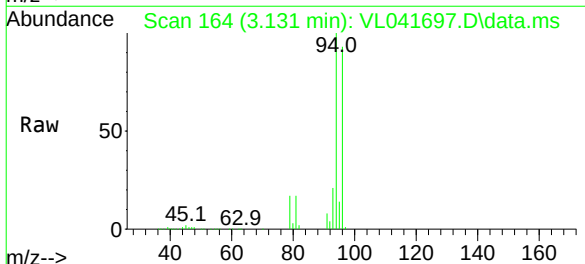
Manual Integrations  
 APPROVED

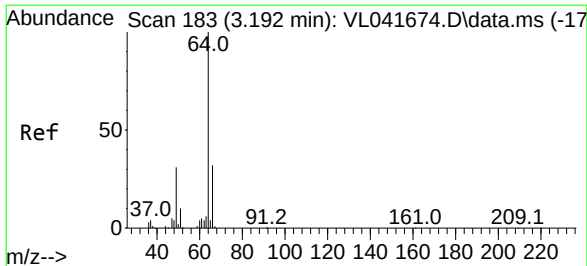
Reviewed By :Semsettin Yesilyurt 11/21/2024  
 Supervised By :Mahesh Dadoda 11/21/2024



#6  
 Bromomethane  
 Concen: 10.391 ppbv  
 RT: 3.131 min Scan# 164  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

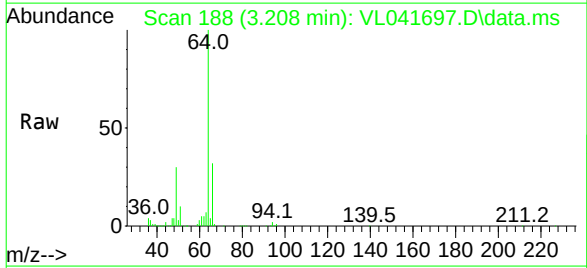
Tgt Ion: 94 Resp: 384455  
 Ion Ratio Lower Upper  
 94 100  
 96 92.6 73.4 110.2





#7  
Chloroethane  
Concen: 10.312 ppbv  
RT: 3.208 min Scan# 18  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

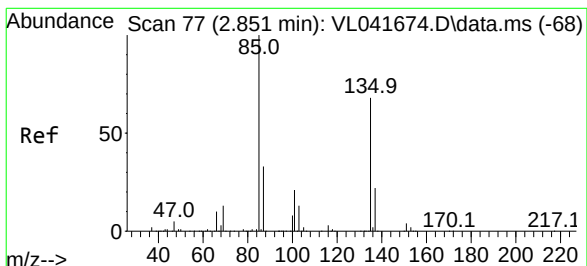
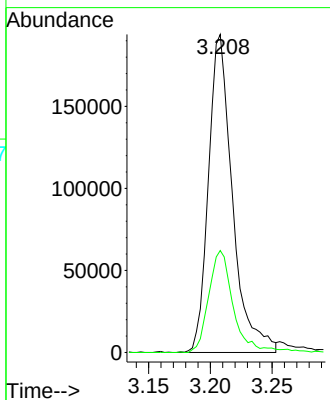
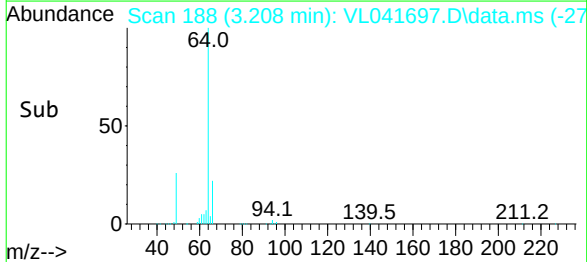
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



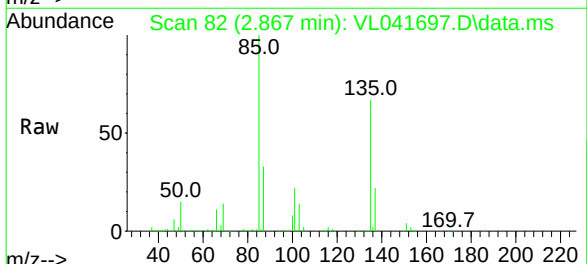
Tgt Ion: 64 Resp: 262500  
Ion Ratio Lower Upper  
64 100  
66 32.1 25.9 38.9

Manual Integrations  
APPROVED

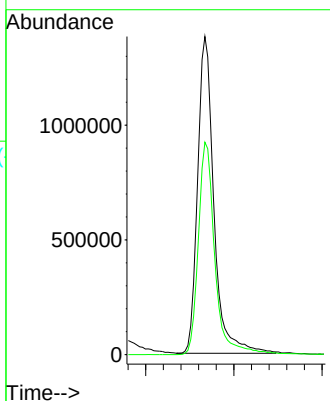
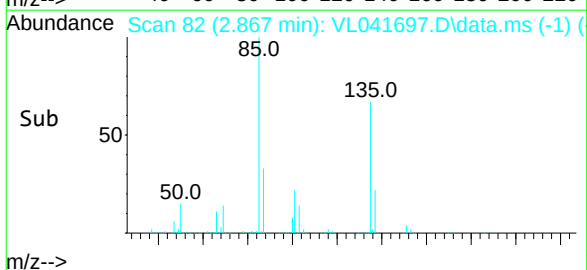
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

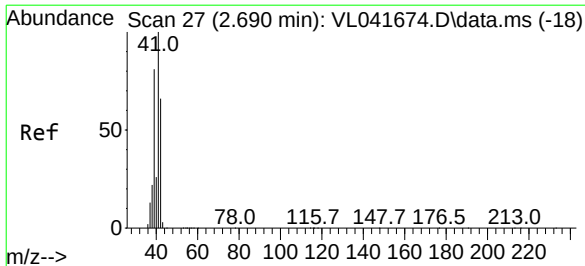


#8  
Dichlorotetrafluoroethane  
Concen: 9.777 ppbv  
RT: 2.867 min Scan# 82  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09



Tgt Ion: 85 Resp: 1772200  
Ion Ratio Lower Upper  
85 100  
135 68.7 55.5 83.3





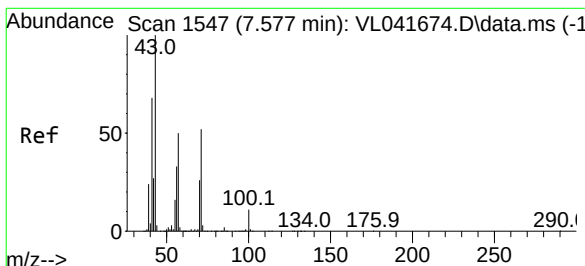
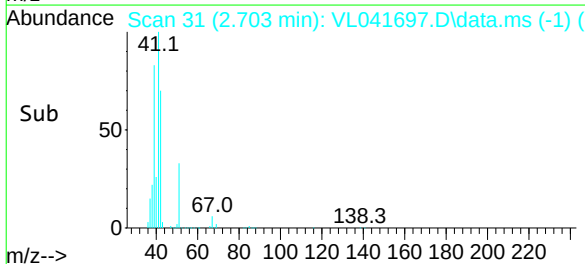
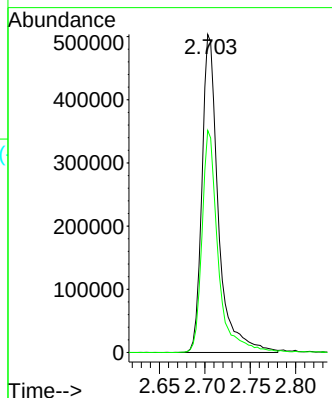
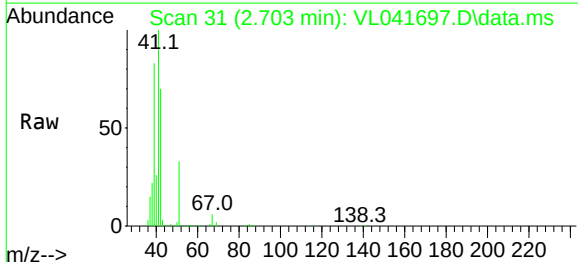
#9  
Propene  
Concen: 9.921 ppbv  
RT: 2.703 min Scan# 31  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 41 Resp: 632787  
Ion Ratio Lower Upper  
41 100  
42 69.3 55.0 82.4

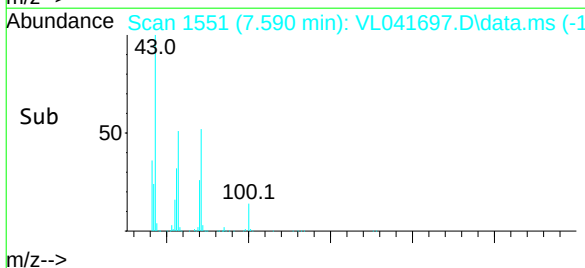
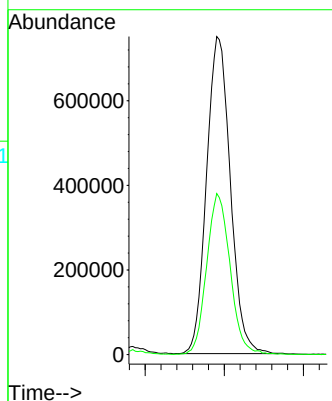
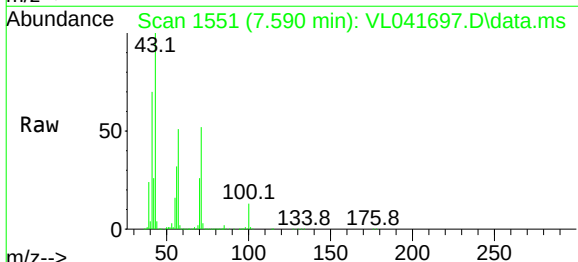
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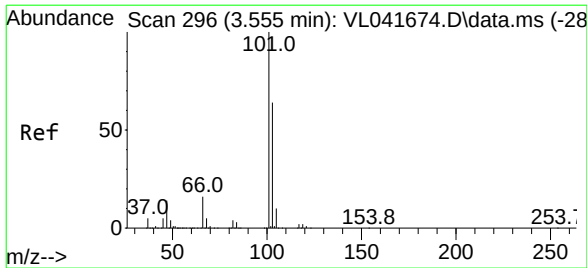
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#10  
Heptane  
Concen: 10.954 ppbv  
RT: 7.590 min Scan# 1551  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 43 Resp: 1565567  
Ion Ratio Lower Upper  
43 100  
57 50.1 40.0 60.0





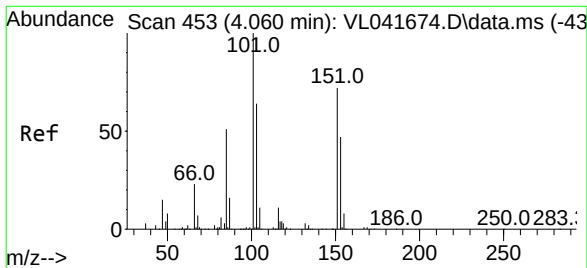
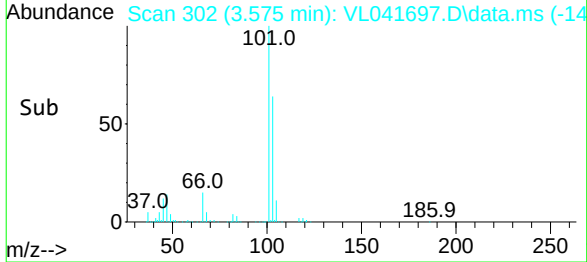
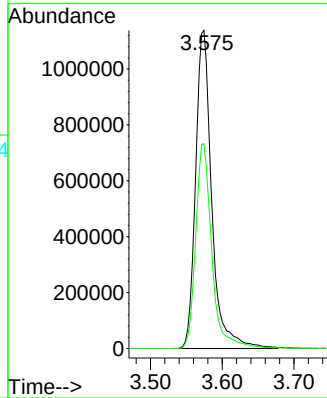
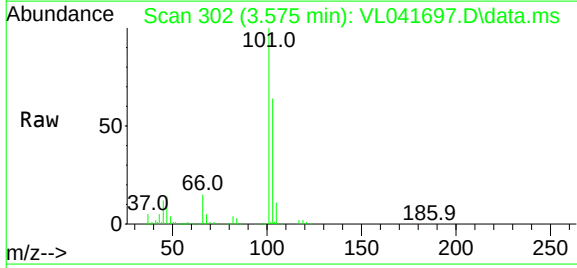
#11  
Trichlorofluoromethane  
Concen: 10.058 ppbv  
RT: 3.575 min Scan# 301  
Delta R.T. 0.019 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:101 Resp: 1779018  
Ion Ratio Lower Upper  
101 100  
103 64.4 51.0 76.6

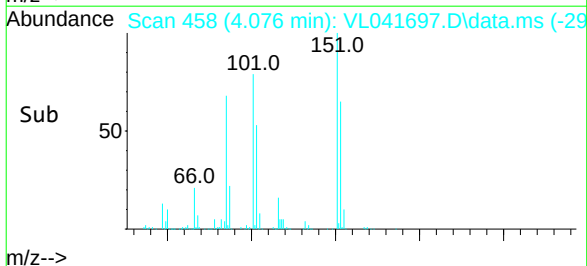
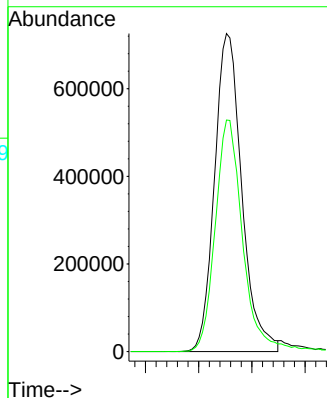
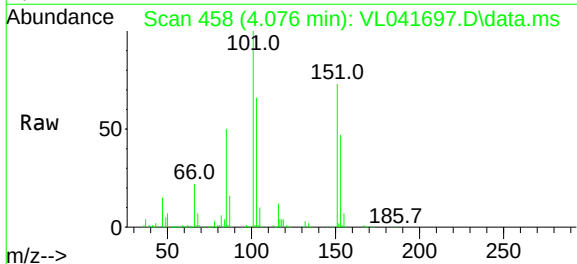
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

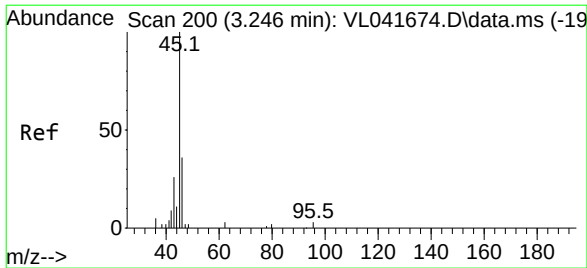


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 10.044 ppbv  
RT: 4.076 min Scan# 458  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion:101 Resp: 1291192  
Ion Ratio Lower Upper  
101 100  
151 74.0 59.1 88.7

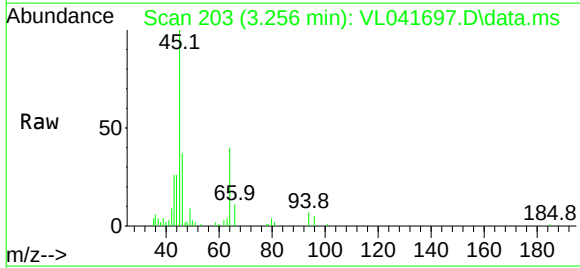






#13  
Ethanol  
Concen: 9.019 ppbv m  
RT: 3.256 min Scan# 20  
Delta R.T. 0.010 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

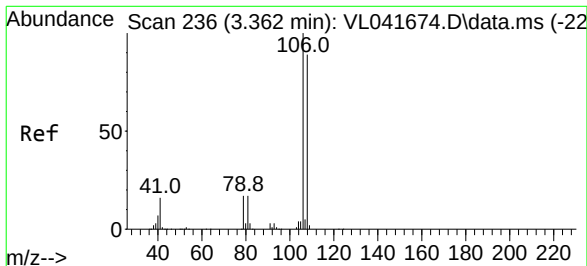
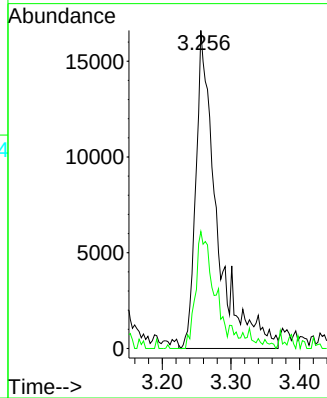
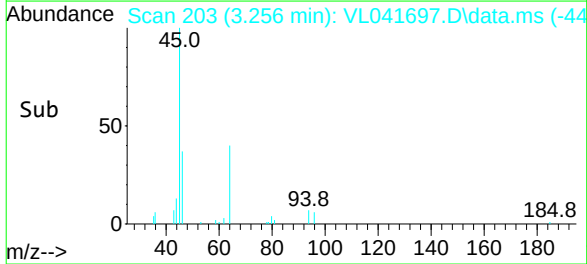
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



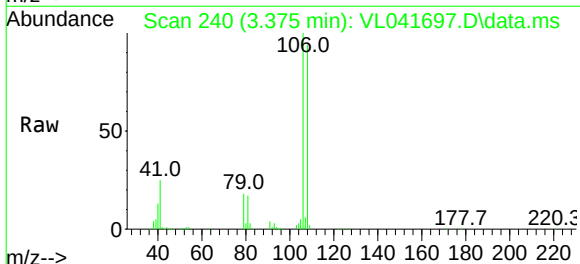
Tgt Ion: 45 Resp: 35224  
Ion Ratio Lower Upper  
45 100  
46 37.6 13.8 55.2

Manual Integrations  
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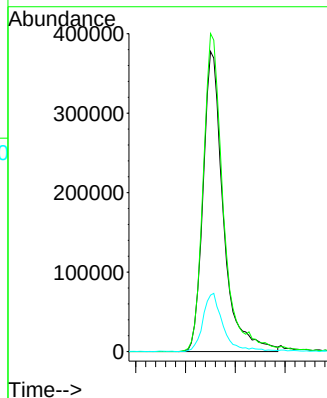
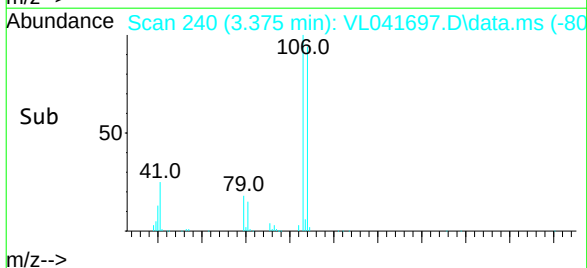
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

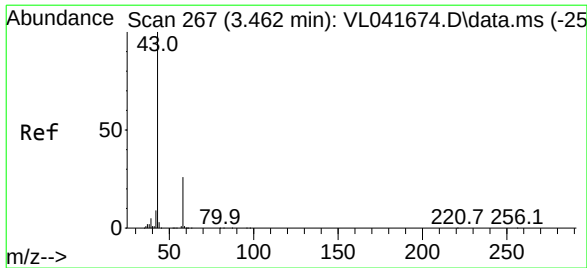


#14  
Bromoethene  
Concen: 10.312 ppbv  
RT: 3.375 min Scan# 240  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09



Tgt Ion:108 Resp: 532947  
Ion Ratio Lower Upper  
108 100  
106 107.3 88.6 133.0  
79 20.3 15.6 23.4





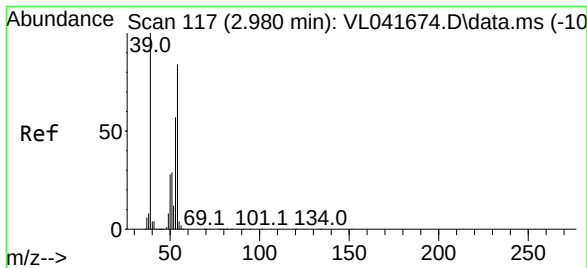
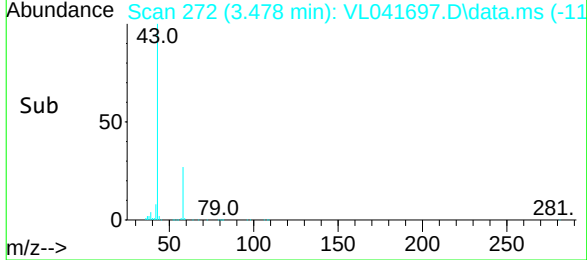
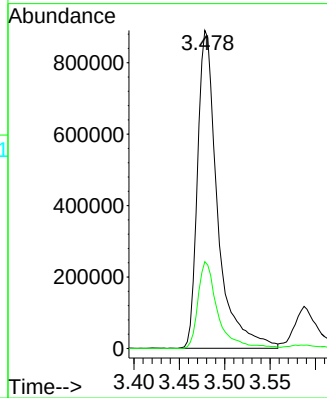
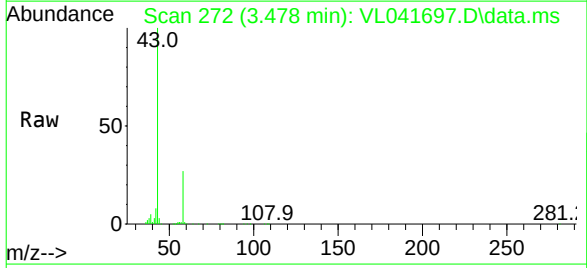
#15  
Acetone  
Concen: 9.889 ppbv  
RT: 3.478 min Scan# 27  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 1367331  
Ion Ratio Lower Upper  
43 100  
58 26.8 21.4 32.0

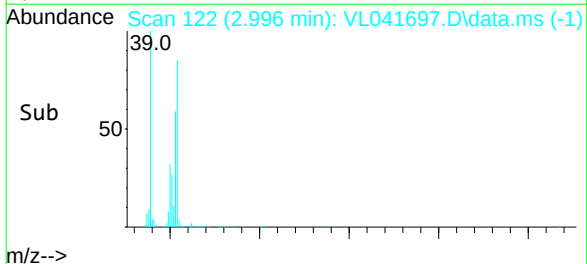
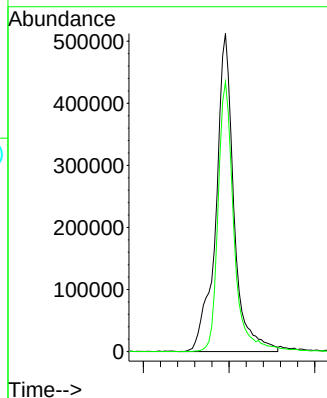
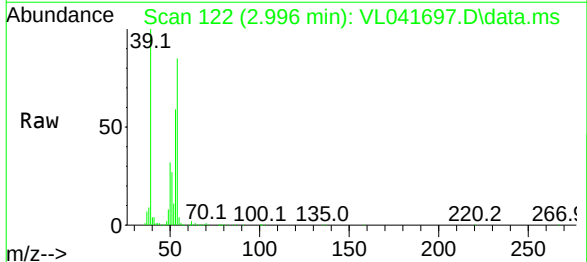
Manual Integrations  
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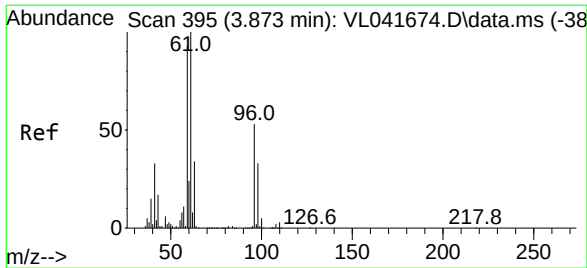
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#16  
1,3-Butadiene  
Concen: 10.741 ppbv  
RT: 2.996 min Scan# 122  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 39 Resp: 749348  
Ion Ratio Lower Upper  
39 100  
54 74.9 61.3 91.9





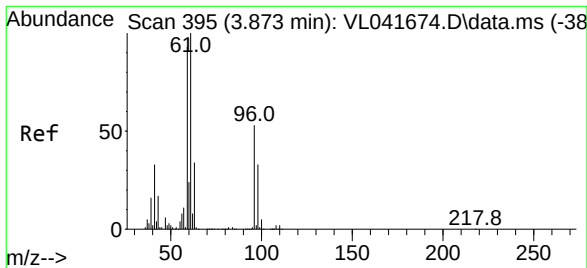
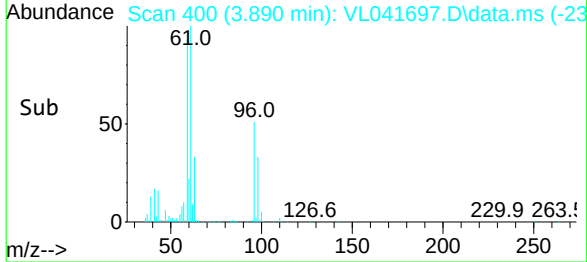
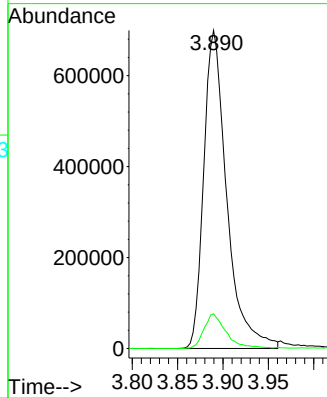
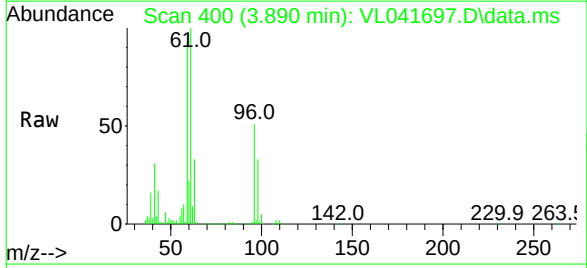
#17  
tert-Butyl alcohol  
Concen: 10.178 ppbv  
RT: 3.890 min Scan# 400  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 59 Resp: 1234931  
Ion Ratio Lower Upper  
59 100  
57 10.8 8.5 12.7

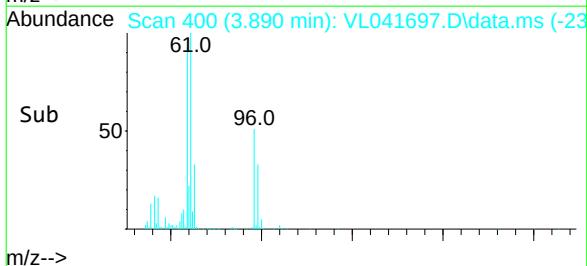
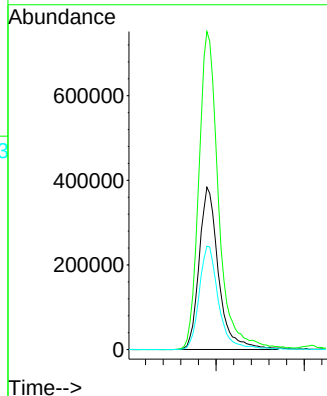
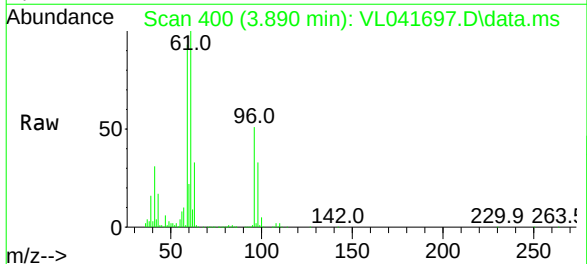
Manual Integrations  
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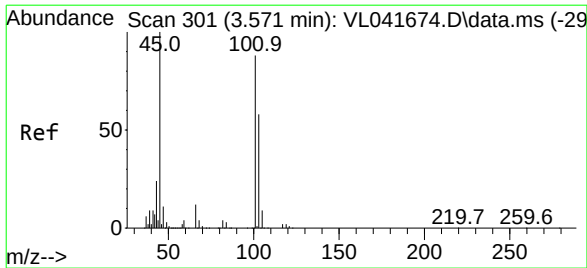
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#18  
1,1-Dichloroethene  
Concen: 10.411 ppbv  
RT: 3.890 min Scan# 400  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 96 Resp: 587002  
Ion Ratio Lower Upper  
96 100  
61 195.7 150.7 226.1  
98 63.6 49.4 74.2





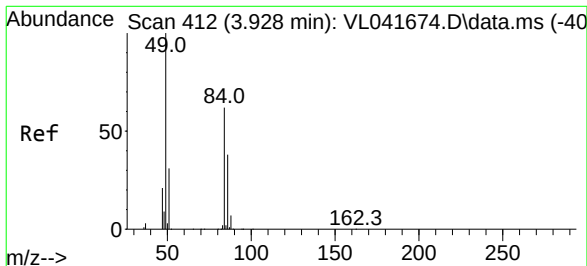
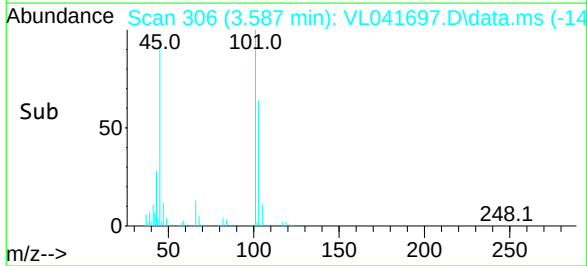
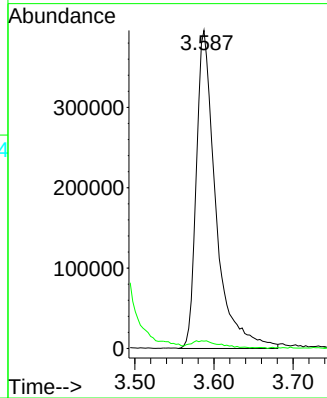
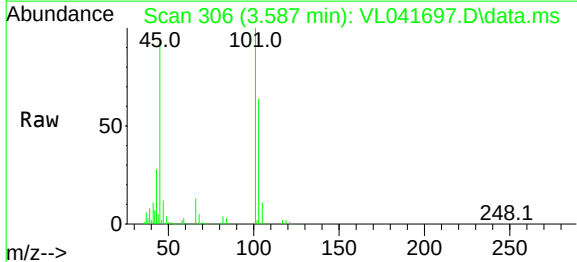
#19  
Isopropyl Alcohol  
Concen: 10.238 ppbv  
RT: 3.587 min Scan# 301  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 45 Resp: 676609  
Ion Ratio Lower Upper  
45 100  
58 3.7 2.5 3.7

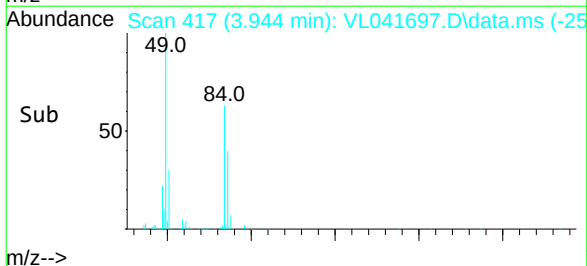
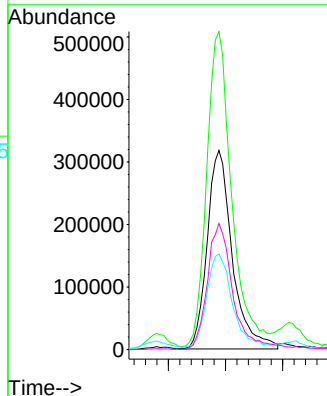
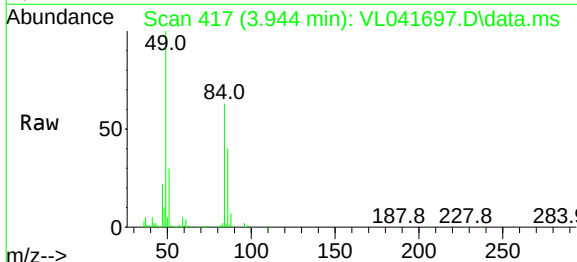
Manual Integrations  
APPROVED

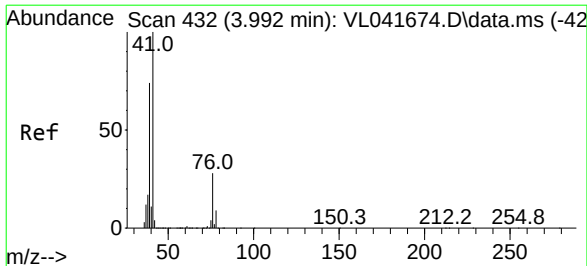
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#20  
Methylene Chloride  
Concen: 9.539 ppbv  
RT: 3.944 min Scan# 417  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 84 Resp: 485339  
Ion Ratio Lower Upper  
84 100  
49 158.5 129.7 194.5  
51 46.5 39.8 59.6  
86 63.2 49.1 73.7





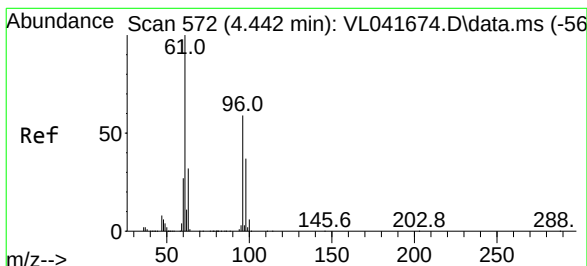
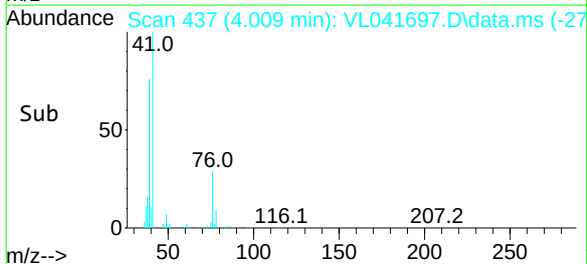
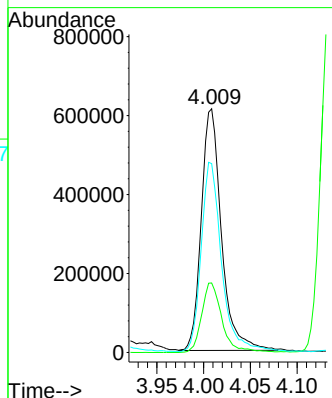
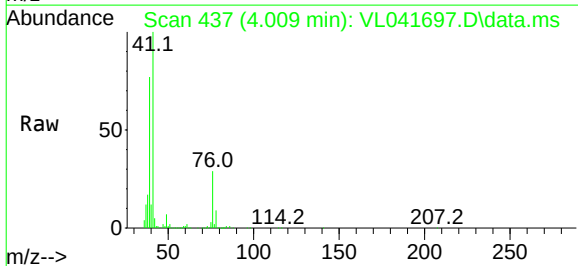
#21  
 Allyl Chloride  
 Concen: 10.777 ppbv  
 RT: 4.009 min Scan# 43  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 41 Resp: 920766  
 Ion Ratio Lower Upper  
 41 100  
 76 29.1 23.5 35.3  
 39 79.3 63.0 94.4

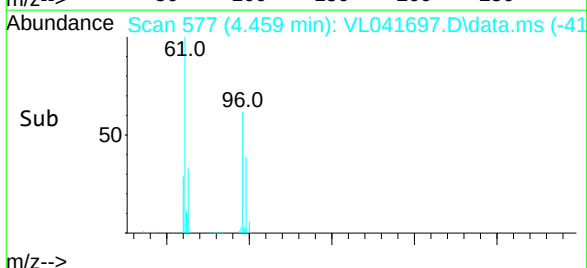
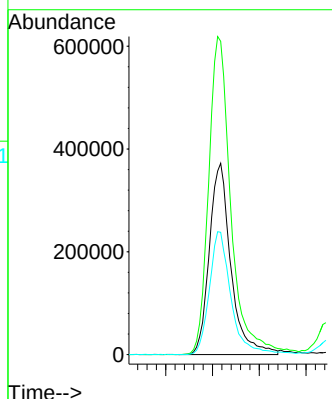
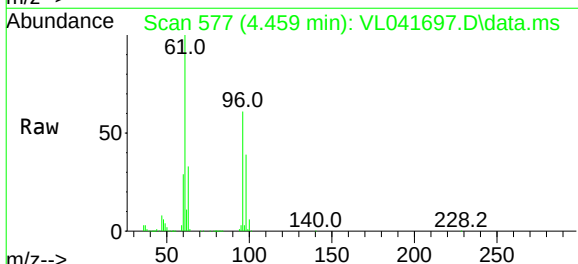
Manual Integrations  
 APPROVED

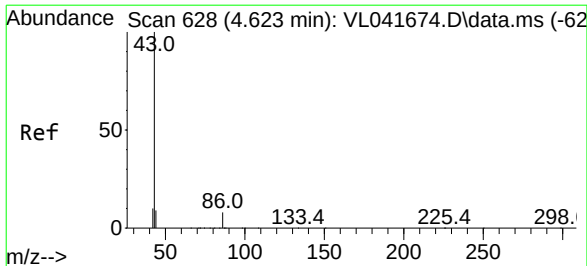
Reviewed By :Semsettin Yesilyurt 11/21/2024  
 Supervised By :Mahesh Dadoda 11/21/2024



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.631 ppbv  
 RT: 4.459 min Scan# 577  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

Tgt Ion: 96 Resp: 595977  
 Ion Ratio Lower Upper  
 96 100  
 61 163.7 134.5 201.7  
 98 63.8 49.6 74.4





#23  
 Vinyl Acetate  
 Concen: 10.425 ppbv  
 RT: 4.639 min Scan# 63  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

Instrument :

MSVOA\_L

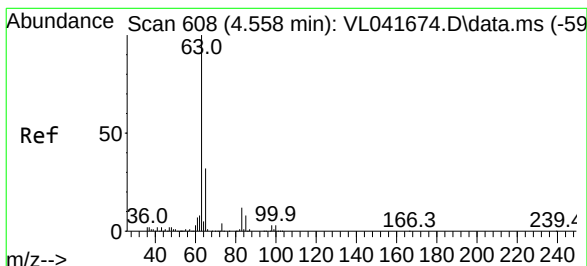
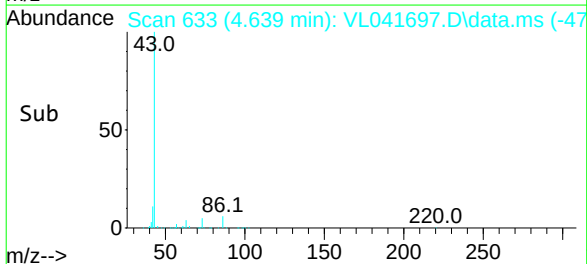
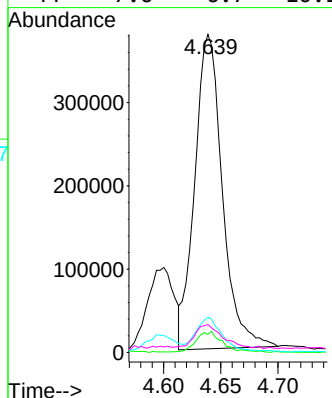
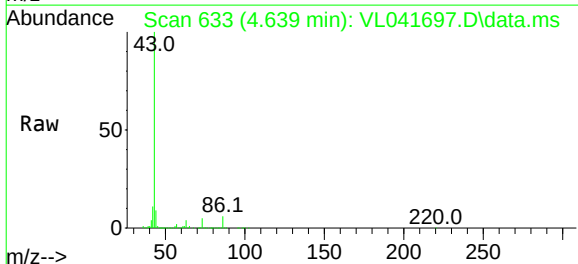
ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 635436  
 Ion Ratio Lower Upper  
 43 100  
 86 5.6 5.3 7.9  
 42 10.8 8.5 12.7  
 44 7.6 6.7 10.1

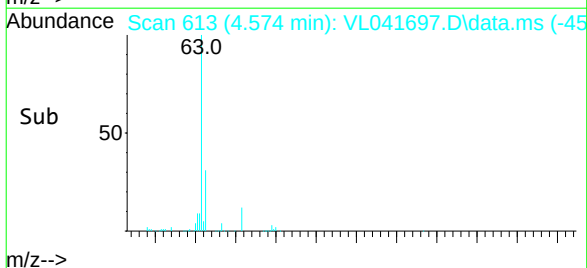
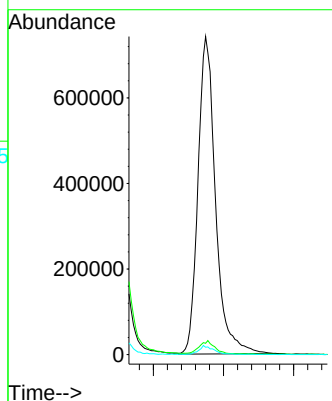
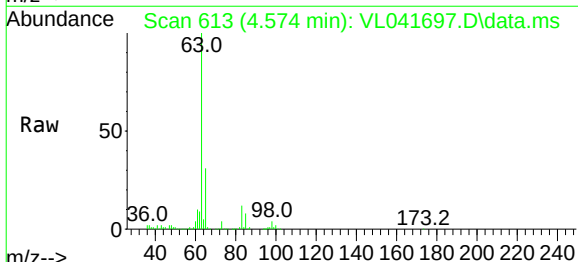
Manual Integrations  
 APPROVED

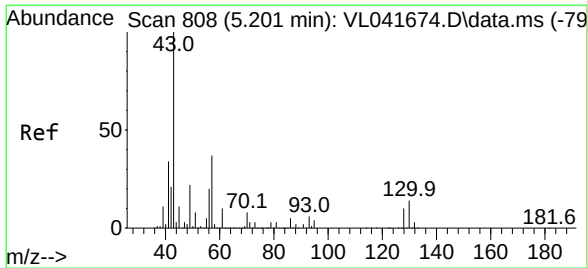
Reviewed By :Semsettin Yesilyurt 11/21/2024  
 Supervised By :Mahesh Dadoda 11/21/2024



#24  
 1,1-Dichloroethane  
 Concen: 10.304 ppbv  
 RT: 4.574 min Scan# 613  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

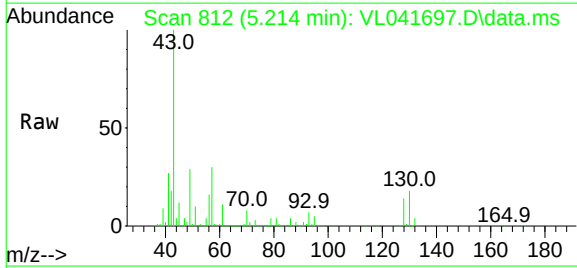
Tgt Ion: 63 Resp: 1289373  
 Ion Ratio Lower Upper  
 63 100  
 98 3.5 1.8 5.4  
 100 2.3 1.4 4.2





#25  
Ethyl Acetate  
Concen: 10.321 ppbv  
RT: 5.214 min Scan# 815  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

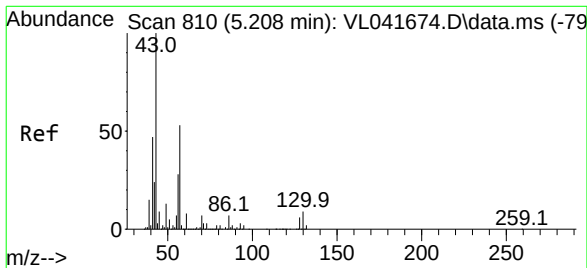
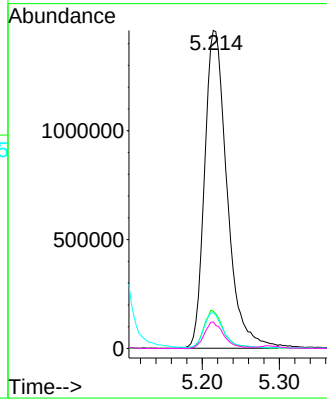
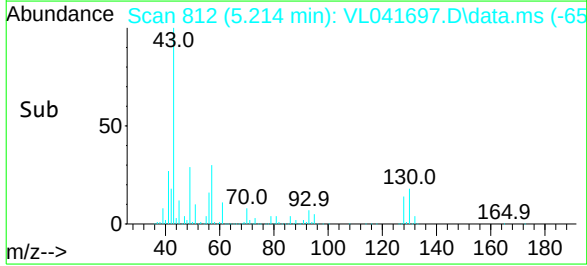
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



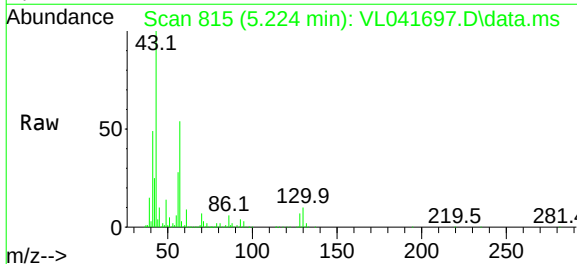
| Tgt Ion: | 43   | Ratio | 100 | Lower | Upper |
|----------|------|-------|-----|-------|-------|
| 43       | 100  |       |     |       |       |
| 45       | 10.9 |       | 8.6 | 13.0  |       |
| 61       | 10.4 |       | 8.4 | 12.6  |       |
| 70       | 7.3  |       | 5.8 | 8.6   |       |

Manual Integrations  
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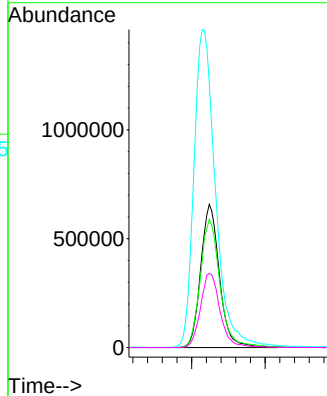
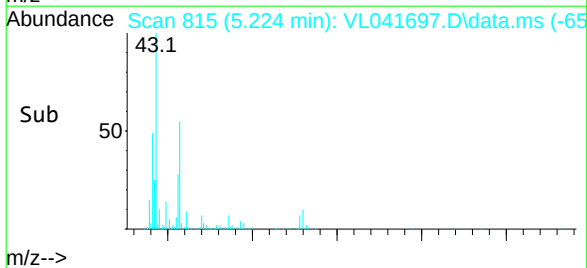
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

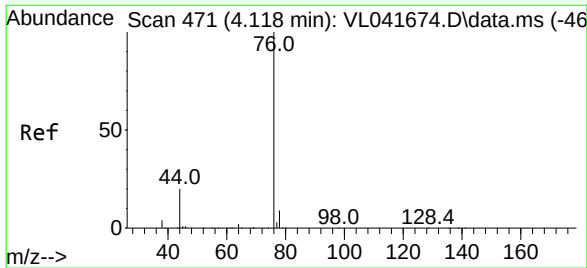


#26  
Hexane  
Concen: 10.567 ppbv  
RT: 5.224 min Scan# 815  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09



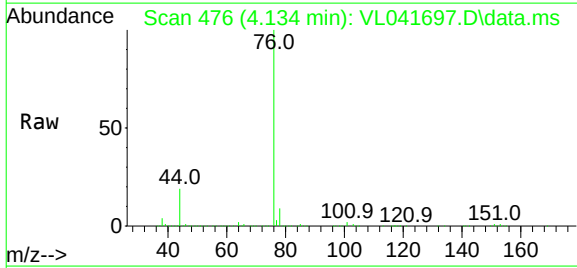
| Tgt Ion: | 57    | Ratio | 100   | Lower | Upper |
|----------|-------|-------|-------|-------|-------|
| 57       | 100   |       |       |       |       |
| 41       | 95.4  |       | 76.1  | 114.1 |       |
| 43       | 256.7 |       | 207.0 | 310.6 |       |
| 56       | 54.7  |       | 43.7  | 65.5  |       |





#27  
Carbon Disulfide  
Concen: 11.714 ppbv  
RT: 4.134 min Scan# 471  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

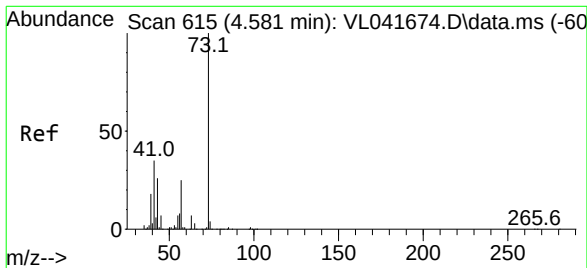
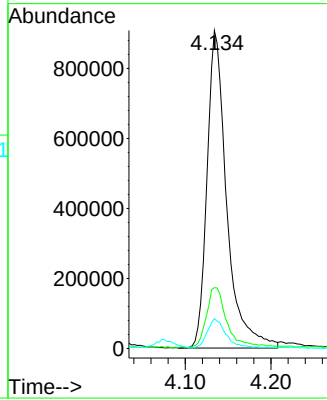
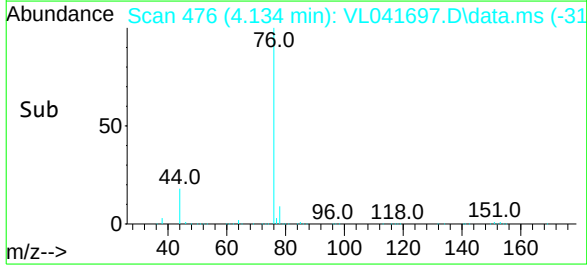
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 76 Resp: 1447099  
Ion Ratio Lower Upper  
76 100  
44 19.8 15.8 23.8  
78 9.4 7.5 11.3

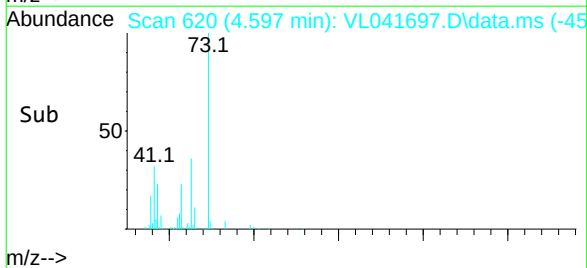
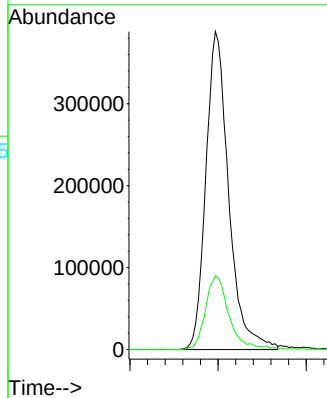
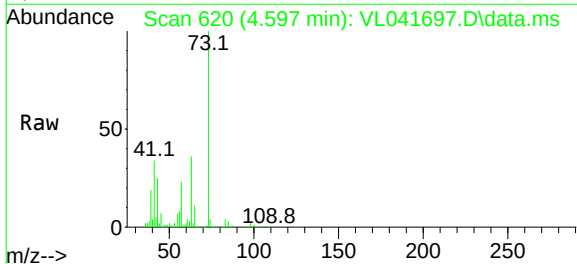
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

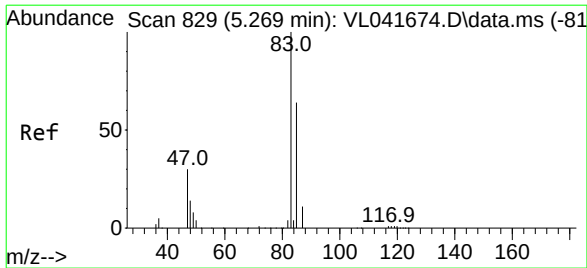


#28  
Methyl tert-Butyl Ether  
Concen: 9.841 ppbv  
RT: 4.597 min Scan# 620  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 73 Resp: 696845  
Ion Ratio Lower Upper  
73 100  
57 24.1 19.6 29.4

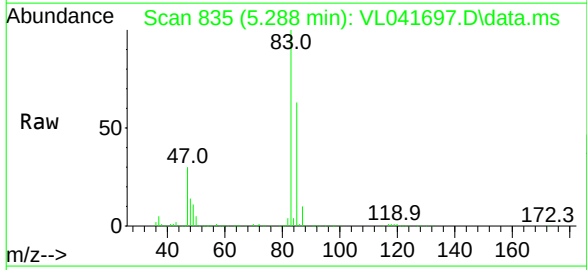






#29  
Chloroform  
Concen: 10.127 ppbv  
RT: 5.288 min Scan# 83  
Delta R.T. 0.019 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

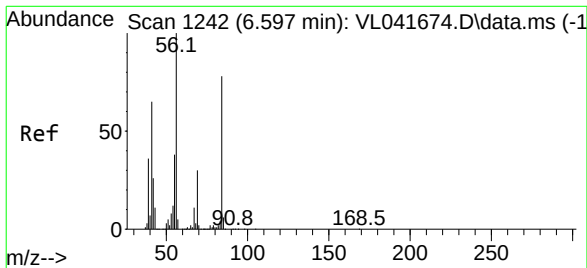
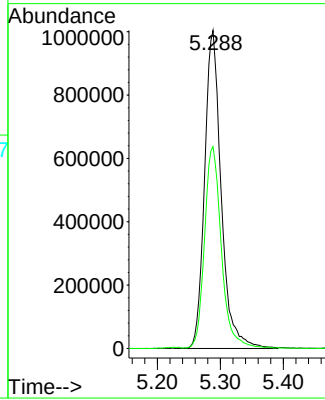
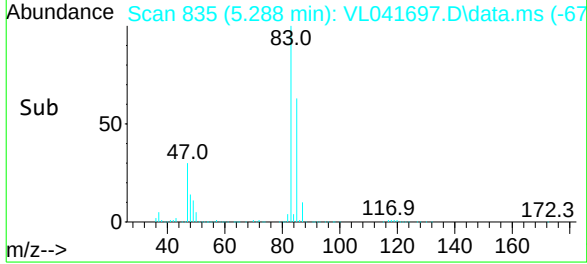
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



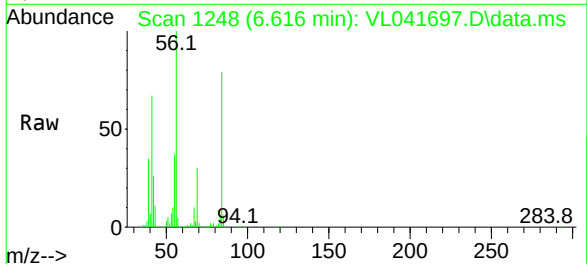
Tgt Ion: 83 Resp: 1838047  
Ion Ratio Lower Upper  
83 100  
85 63.2 51.1 76.7

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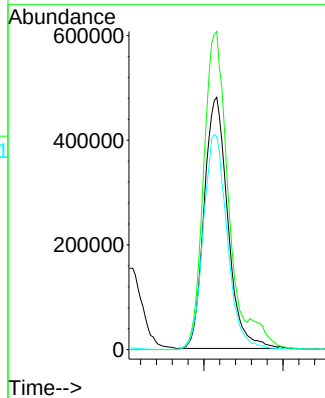
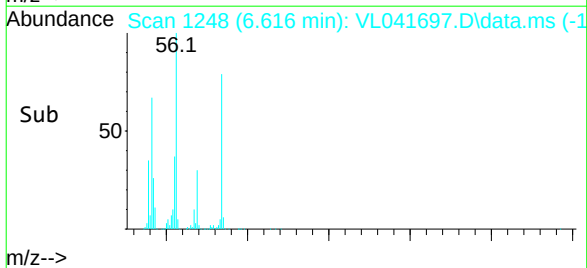
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

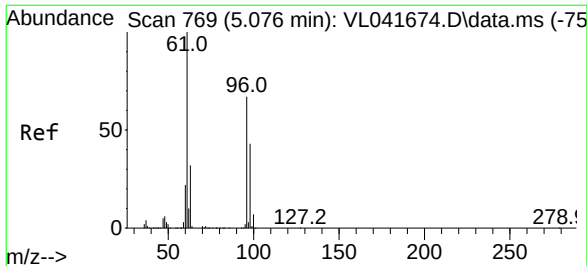


#30  
Cyclohexane  
Concen: 10.644 ppbv  
RT: 6.616 min Scan# 1248  
Delta R.T. 0.019 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09



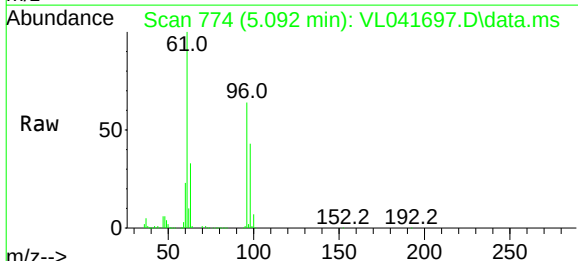
Tgt Ion: 84 Resp: 996570  
Ion Ratio Lower Upper  
84 100  
56 135.5 110.8 166.2  
41 87.4 70.0 105.0





#31  
cis-1,2-Dichloroethene  
Concen: 10.612 ppbv  
RT: 5.092 min Scan# 77  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

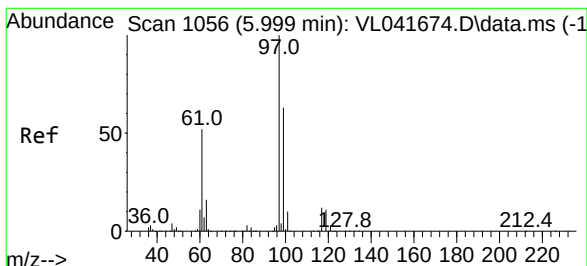
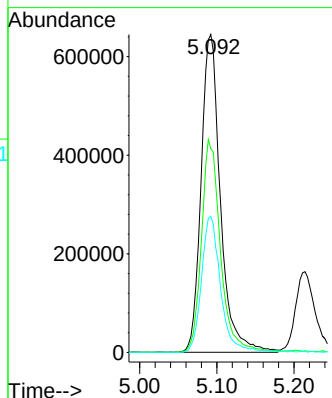
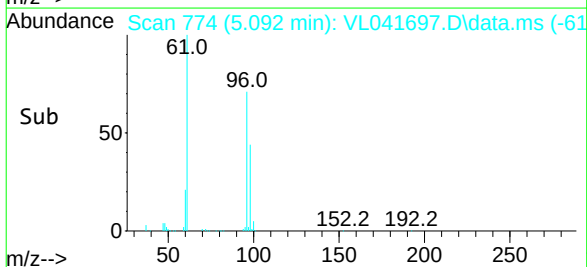
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDC0010



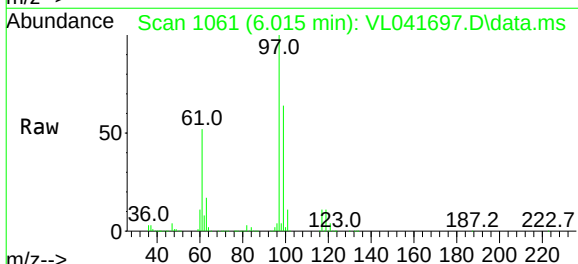
Tgt Ion: 61 Resp: 1122533  
Ion Ratio Lower Upper  
61 100  
96 63.9 53.4 80.2  
98 42.9 34.0 51.0

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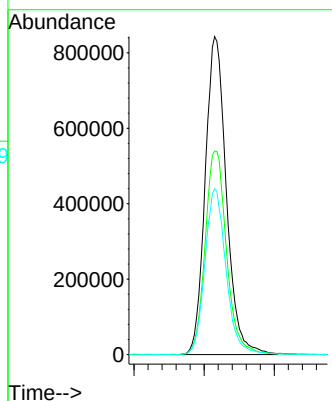
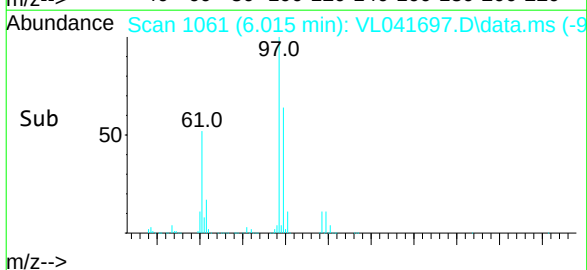
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

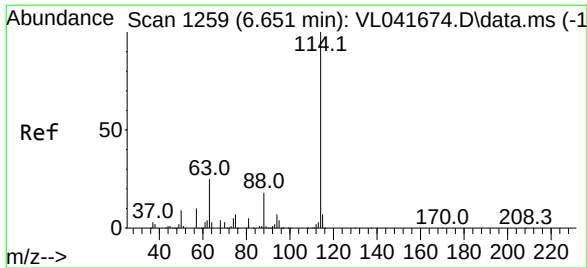


#32  
1,1,1-Trichloroethane  
Concen: 10.673 ppbv  
RT: 6.015 min Scan# 1061  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09



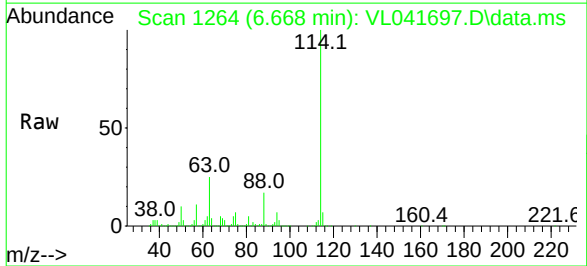
Tgt Ion: 97 Resp: 1767346  
Ion Ratio Lower Upper  
97 100  
99 64.9 51.4 77.2  
61 52.4 41.7 62.5





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.668 min Scan# 12  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

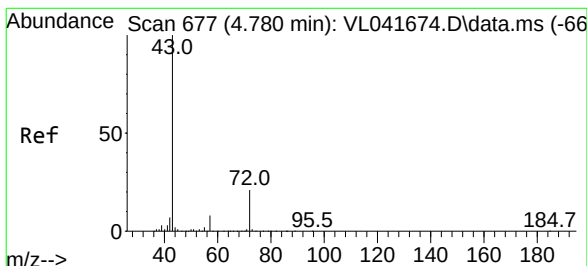
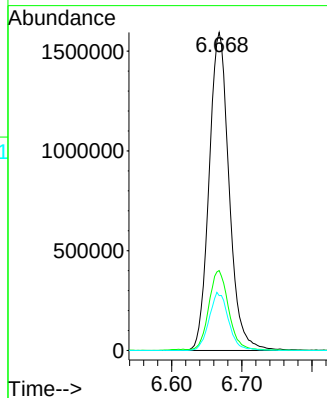
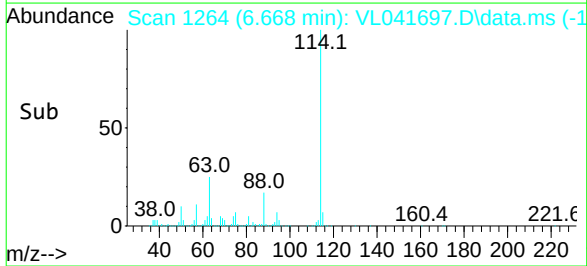
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 114 Resp: 3154537  
Ion Ratio Lower Upper  
114 100  
63 25.5 20.3 30.5  
88 17.8 14.2 21.4

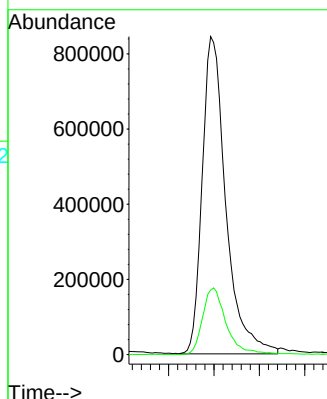
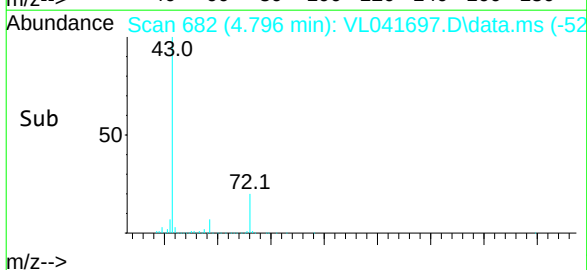
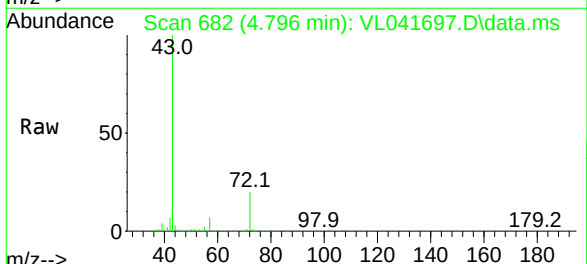
Manual Integrations  
APPROVED

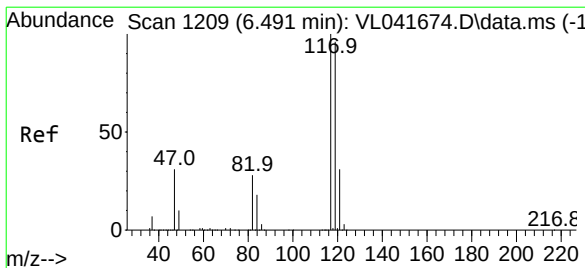
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#34  
2-Butanone  
Concen: 9.731 ppbv  
RT: 4.796 min Scan# 682  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

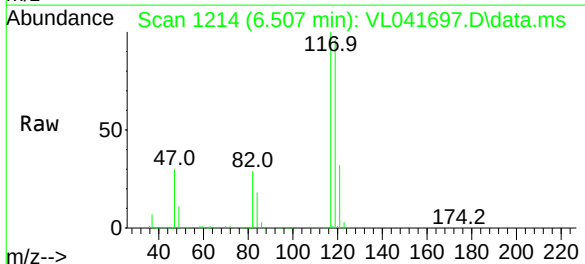
Tgt Ion: 43 Resp: 1528409  
Ion Ratio Lower Upper  
43 100  
72 21.3 17.4 26.0





#35  
Carbon Tetrachloride  
Concen: 11.222 ppbv  
RT: 6.507 min Scan# 1209  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

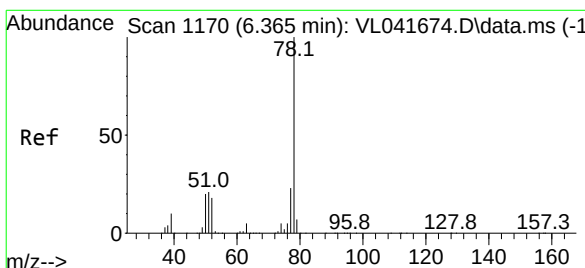
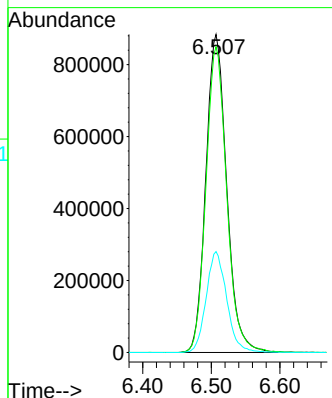
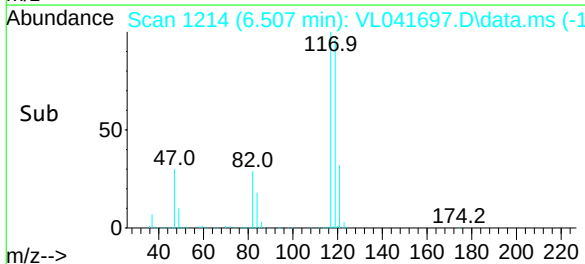
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



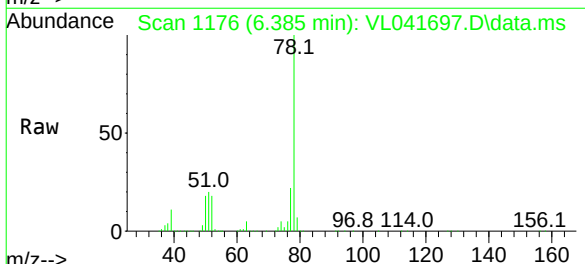
Tgt Ion: 117 Resp: 1867710  
Ion Ratio Lower Upper  
117 100  
119 96.1 77.2 115.8  
121 31.7 25.0 37.4

Manual Integrations  
APPROVED

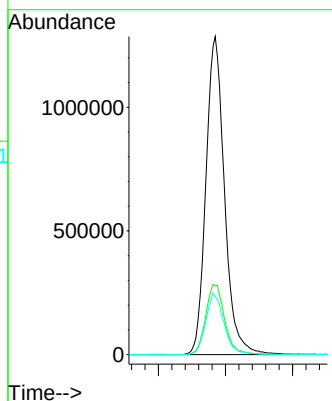
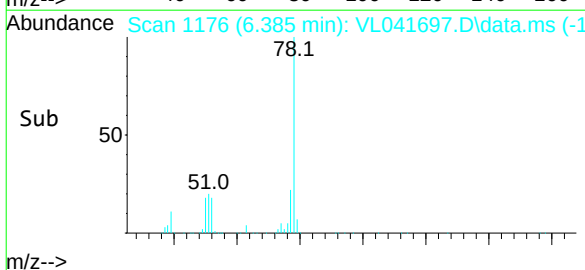
Reviewed By : Semsettin Yesilyurt 11/21/2024  
Supervised By : Mahesh Dadoda 11/21/2024

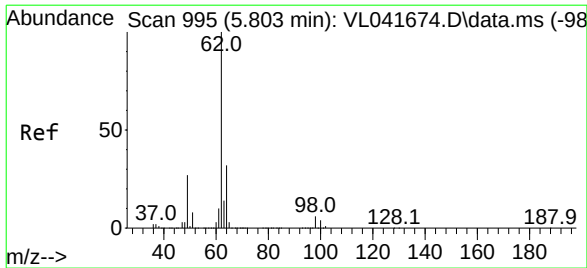


#36  
Benzene  
Concen: 10.579 ppbv  
RT: 6.385 min Scan# 1176  
Delta R.T. 0.019 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09



Tgt Ion: 78 Resp: 2472710  
Ion Ratio Lower Upper  
78 100  
77 21.7 18.5 27.7  
50 18.3 15.6 23.4





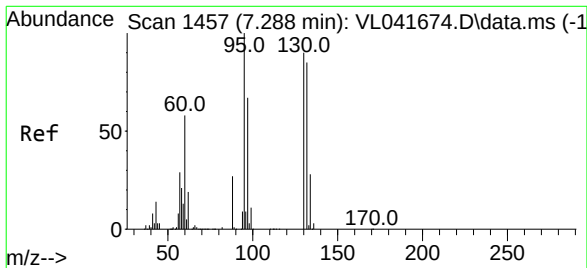
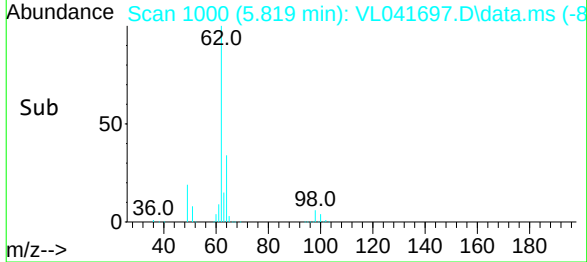
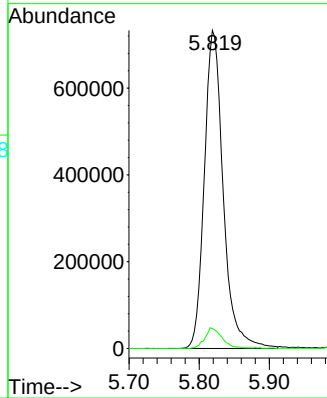
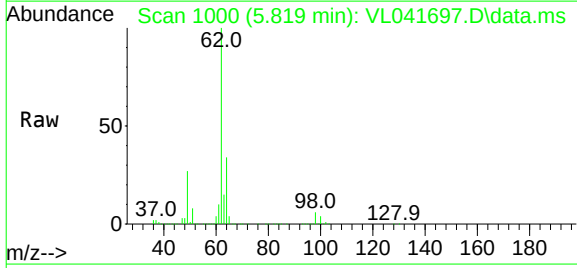
#37  
1,2-Dichloroethane  
Concen: 10.411 ppbv  
RT: 5.819 min Scan# 10  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 62 Resp: 1372788  
Ion Ratio Lower Upper  
62 100  
98 6.2 5.2 7.8

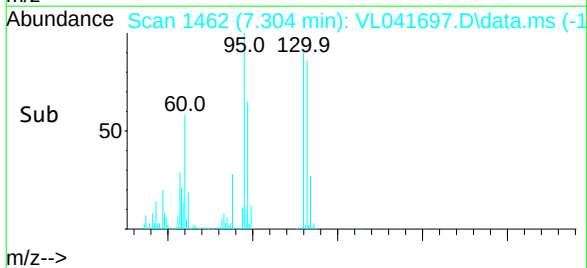
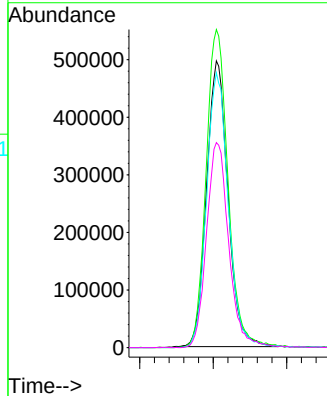
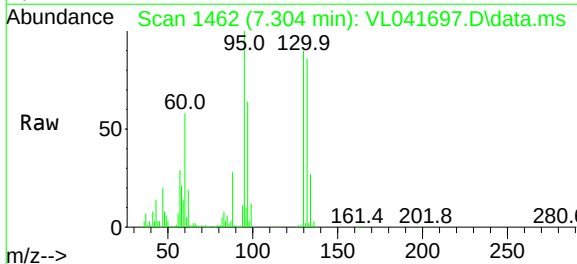
Manual Integrations  
APPROVED

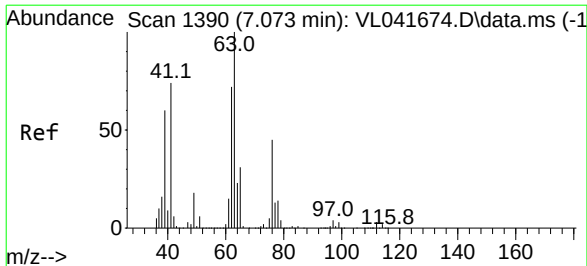
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#38  
Trichloroethene  
Concen: 11.179 ppbv  
RT: 7.304 min Scan# 1462  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

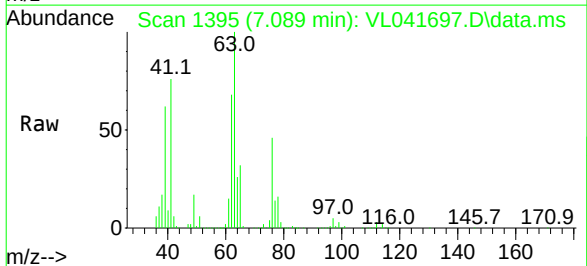
Tgt Ion:130 Resp: 1003555  
Ion Ratio Lower Upper  
130 100  
95 111.2 89.1 133.7  
132 96.1 75.7 113.5  
97 71.7 60.0 90.0





#39  
1,2-Dichloropropane  
Concen: 10.346 ppbv  
RT: 7.089 min Scan# 1390  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

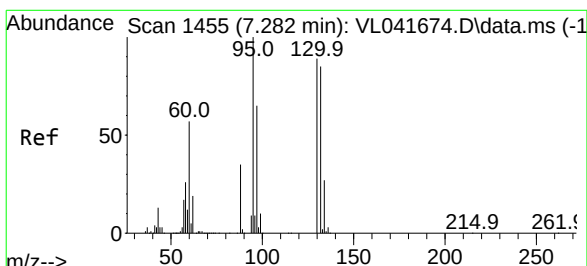
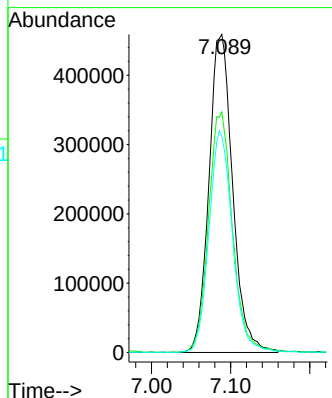
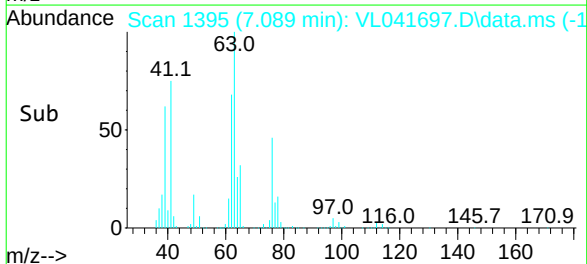
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 63 Resp: 955596  
Ion Ratio Lower Upper  
63 100  
41 75.6 59.1 88.7  
62 67.9 57.7 86.5

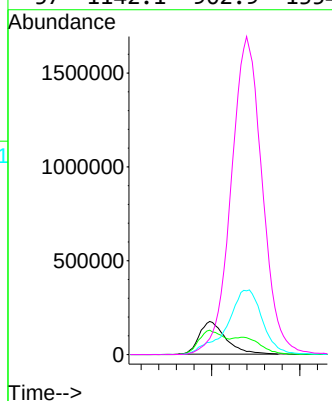
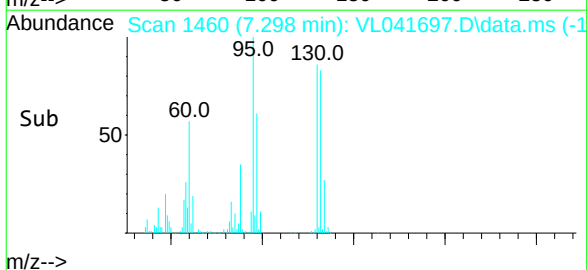
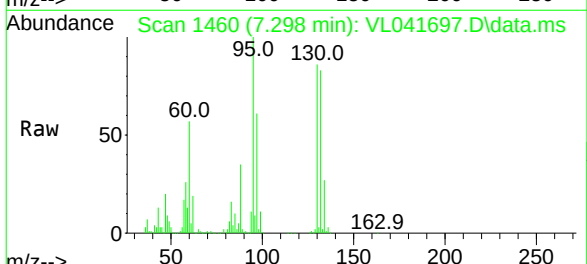
Manual Integrations  
APPROVED

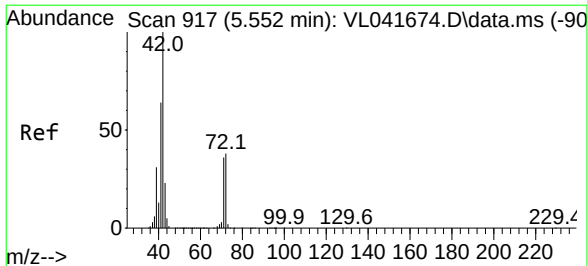
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#40  
1,4-Dioxane  
Concen: 11.031 ppbv  
RT: 7.298 min Scan# 1460  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

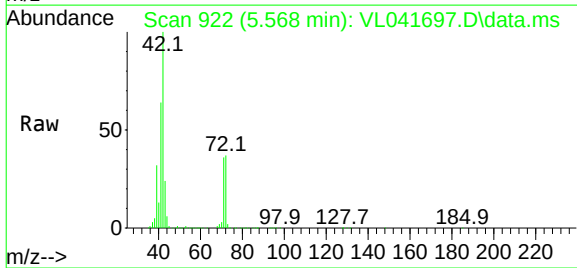
Tgt Ion: 88 Resp: 365570  
Ion Ratio Lower Upper  
88 100  
58 128.6 101.4 152.2  
43 263.4 208.0 312.0  
57 1142.1 902.9 1354.3





#41  
Tetrahydrofuran  
Concen: 11.035 ppbv  
RT: 5.568 min Scan# 92  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

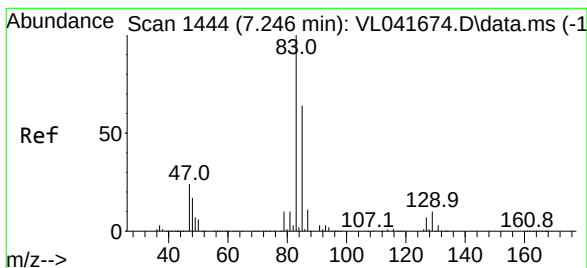
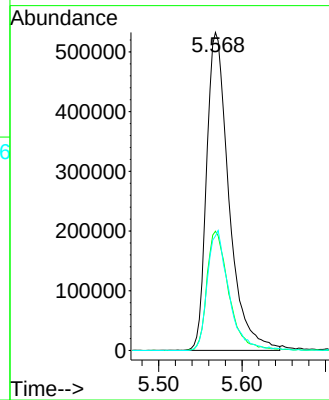
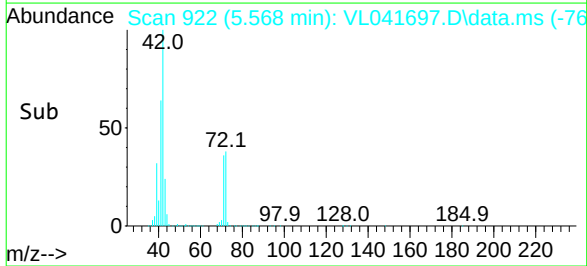
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



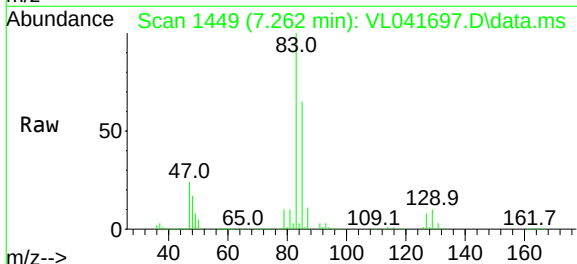
Tgt Ion: 42 Resp: 989840  
Ion Ratio Lower Upper  
42 100  
72 37.2 29.8 44.6  
71 36.8 29.4 44.2

Manual Integrations  
APPROVED

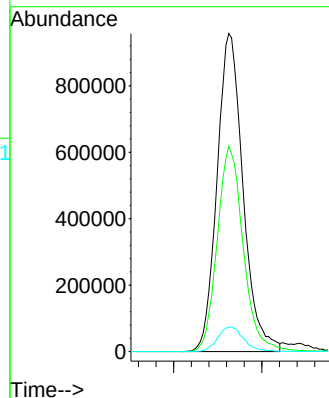
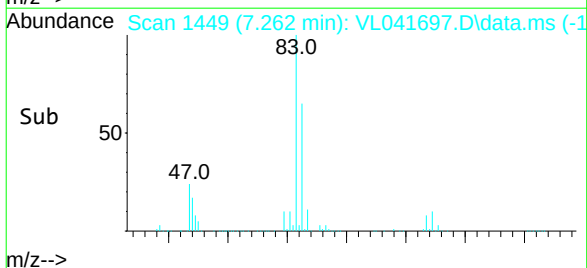
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

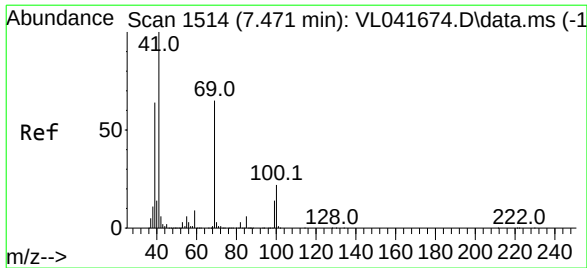


#42  
Bromodichloromethane  
Concen: 10.692 ppbv  
RT: 7.262 min Scan# 1449  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09



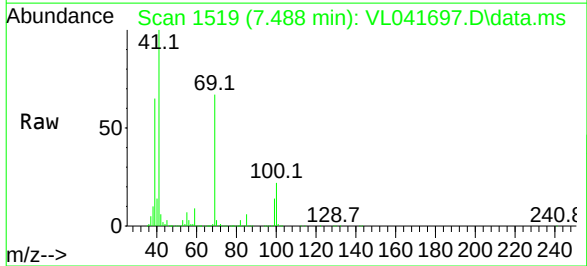
Tgt Ion: 83 Resp: 1959114  
Ion Ratio Lower Upper  
83 100  
85 64.6 51.2 76.8  
127 7.6 6.0 9.0





#43  
Methyl Methacrylate  
Concen: 11.538 ppbv  
RT: 7.488 min Scan# 1514  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

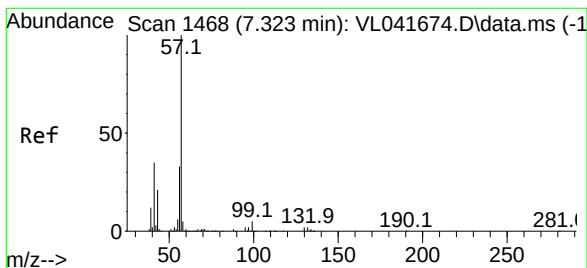
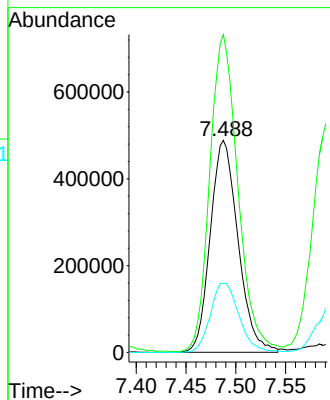
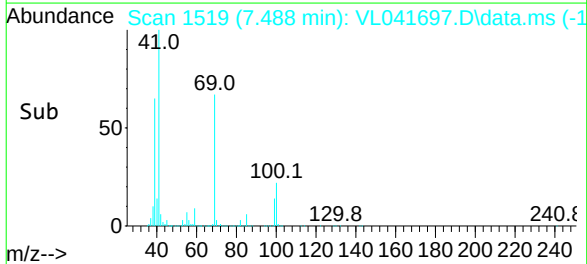
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



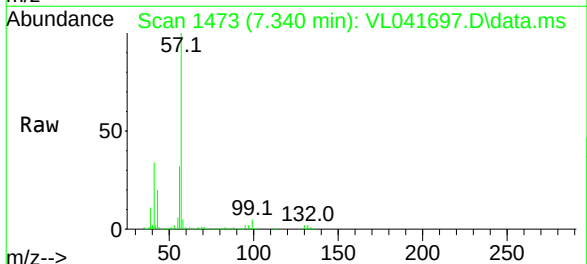
Tgt Ion: 69 Resp: 946899  
Ion Ratio Lower Upper  
69 100  
41 152.6 119.8 179.6  
100 34.0 27.3 40.9

Manual Integrations  
APPROVED

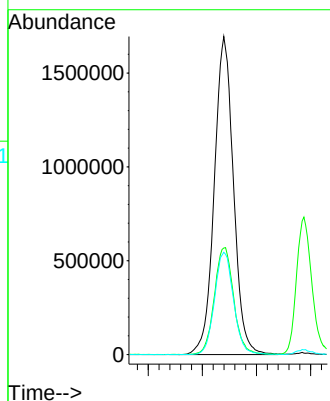
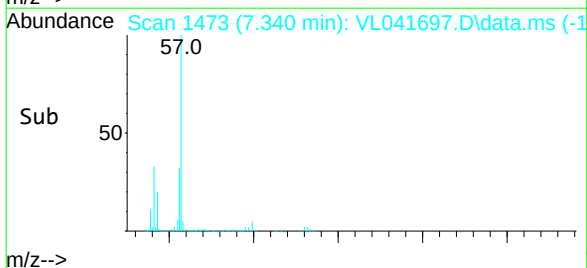
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



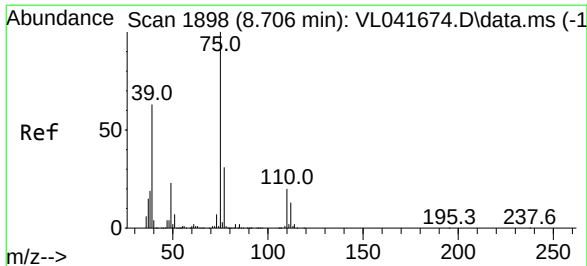
#44  
2,2,4-Trimethylpentane  
Concen: 10.542 ppbv  
RT: 7.340 min Scan# 1473  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09



Tgt Ion: 57 Resp: 4173715  
Ion Ratio Lower Upper  
57 100  
41 33.7 27.0 40.6  
56 31.9 25.8 38.6

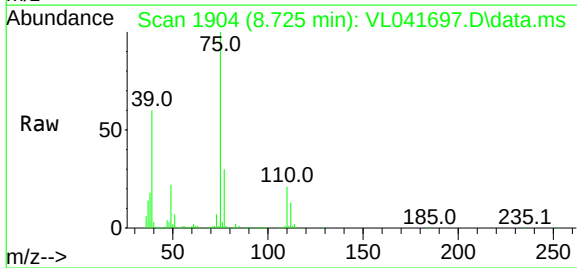






#45  
t-1,3-Dichloropropene  
Concen: 12.663 ppbv  
RT: 8.725 min Scan# 1904  
Delta R.T. 0.019 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

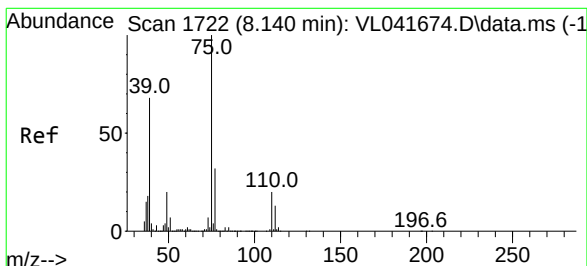
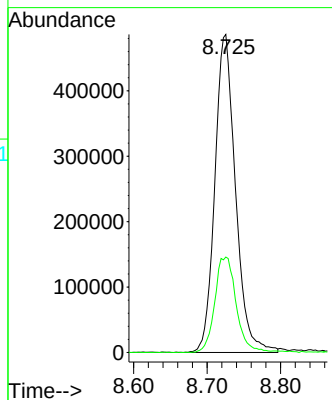
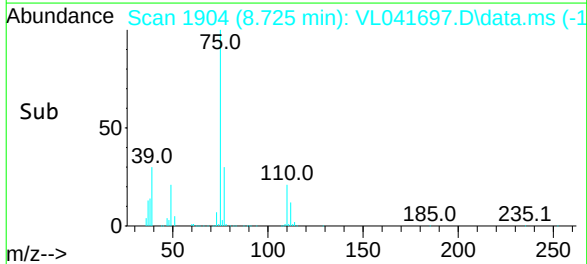
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 75 Resp: 949613  
Ion Ratio Lower Upper  
75 100  
77 30.0 24.7 37.1

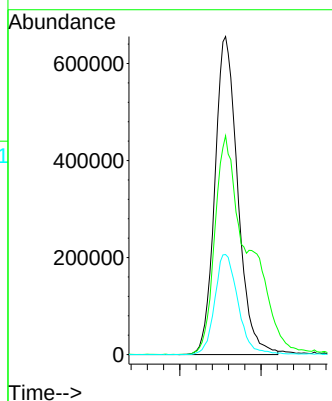
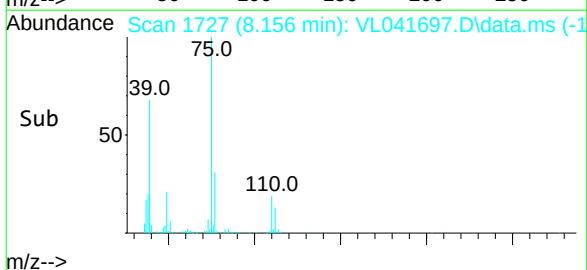
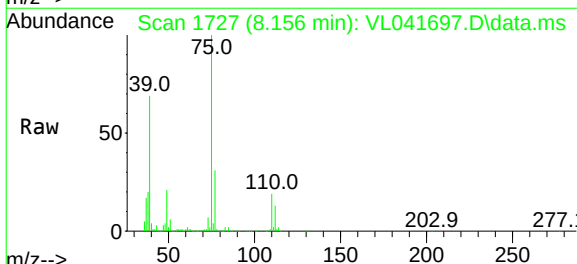
Manual Integrations  
APPROVED

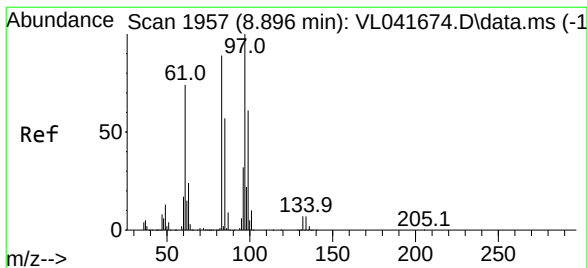
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#46  
cis-1,3-Dichloropropene  
Concen: 11.922 ppbv  
RT: 8.156 min Scan# 1727  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 75 Resp: 1284127  
Ion Ratio Lower Upper  
75 100  
39 68.7 54.1 81.1  
77 31.5 25.3 37.9





#47

1,1,2-Trichloroethane

Concen: 10.225 ppbv

RT: 8.915 min Scan# 19

Delta R.T. 0.019 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 1022176

Ion Ratio Lower Upper

97 100

83 85.5 71.0 106.6

85 56.8 45.4 68.2

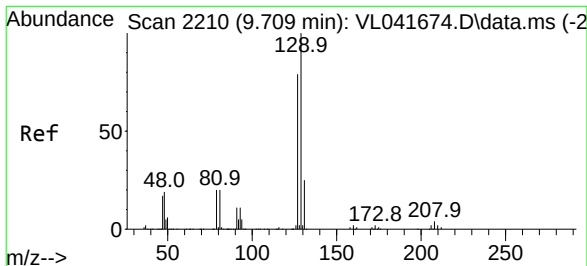
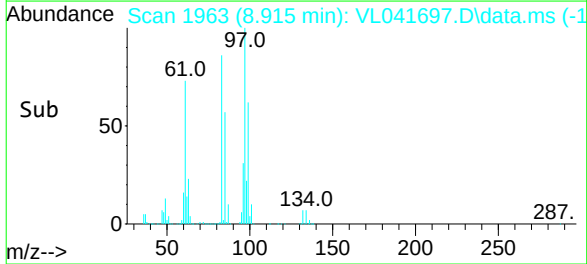
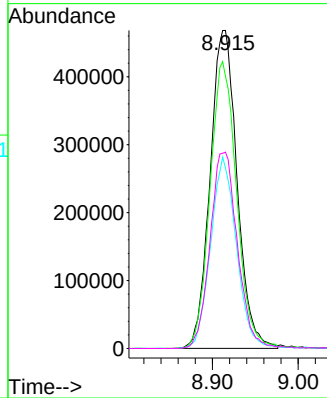
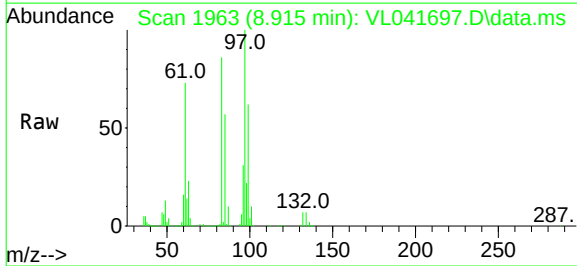
99 61.7 49.0 73.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024

Supervised By :Mahesh Dadoda 11/21/2024



#48

Dibromochloromethane

Concen: 11.129 ppbv

RT: 9.725 min Scan# 2215

Delta R.T. 0.016 min

Lab File: VL041697.D

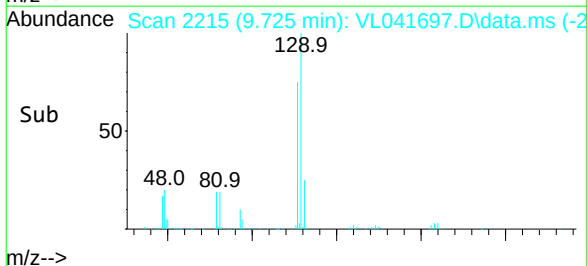
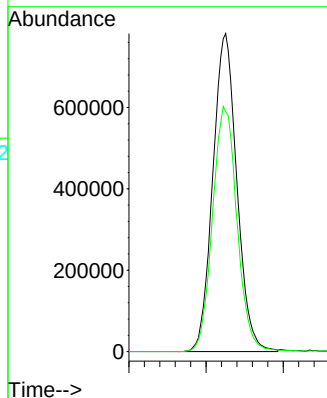
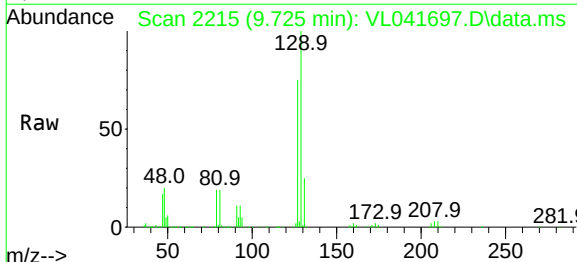
Acq: 20 Nov 2024 8:09

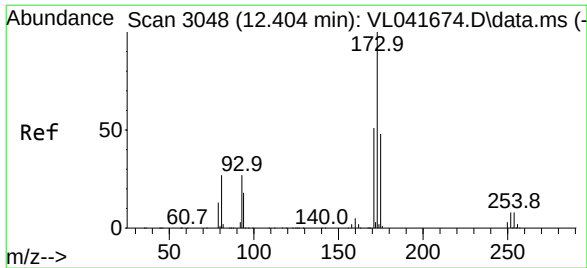
Tgt Ion:129 Resp: 1691178

Ion Ratio Lower Upper

129 100

127 78.9 39.1 117.2





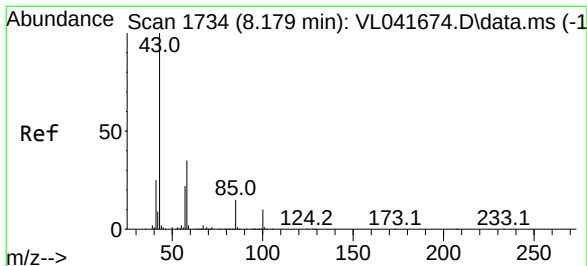
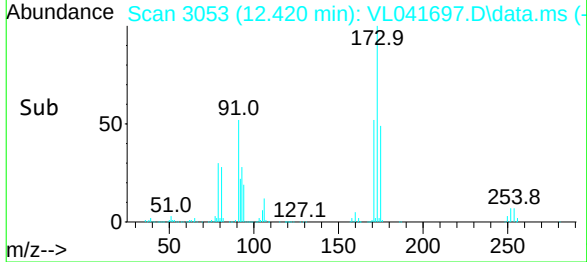
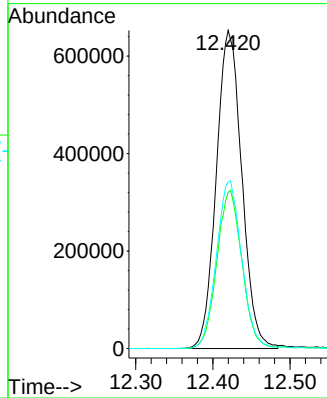
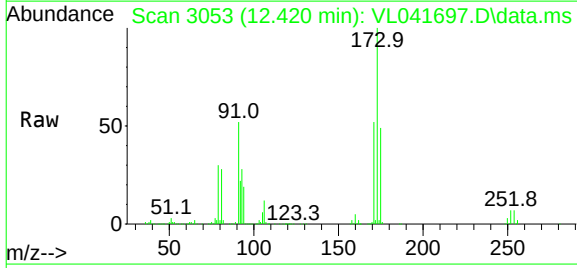
#49  
Bromoform  
Concen: 11.514 ppbv  
RT: 12.420 min Scan# 3048  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument : MSVOA\_L  
ClientSampleId : VSTDCCC010

Tgt Ion: 173 Resp: 1497113  
Ion Ratio Lower Upper  
173 100  
175 49.4 39.2 58.8  
171 52.5 41.7 62.5

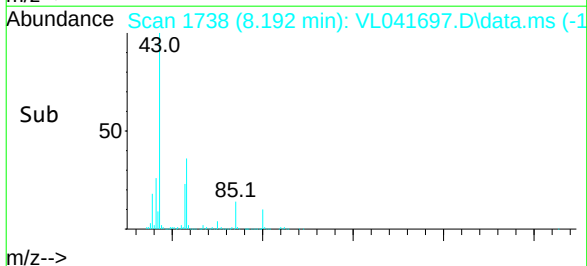
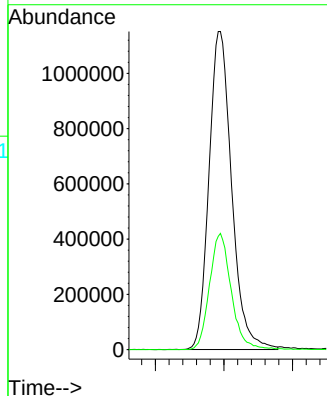
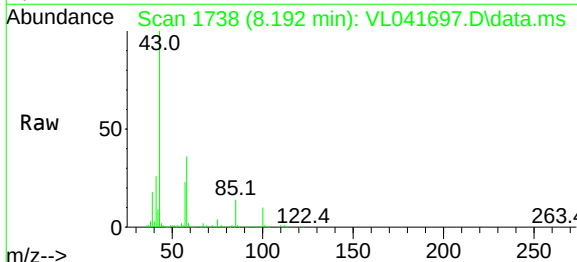
Manual Integrations  
APPROVED

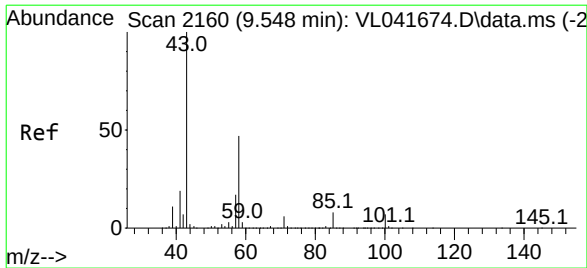
Reviewed By : Semsettin Yesilyurt 11/21/2024  
Supervised By : Mahesh Dadoda 11/21/2024



#50  
4-Methyl-2-Pentanone  
Concen: 10.950 ppbv  
RT: 8.192 min Scan# 1738  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 43 Resp: 2640409  
Ion Ratio Lower Upper  
43 100  
58 35.2 27.7 41.5





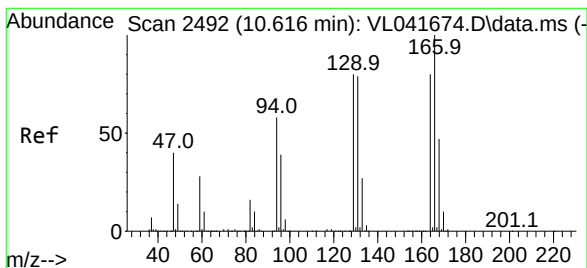
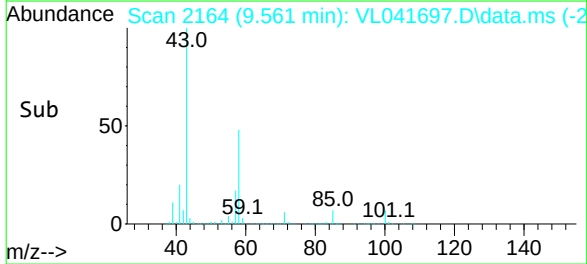
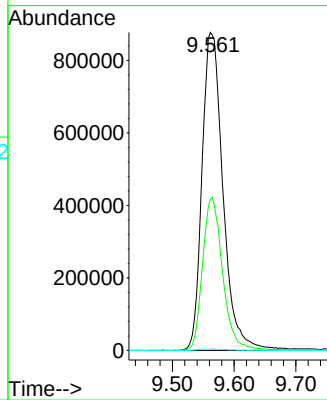
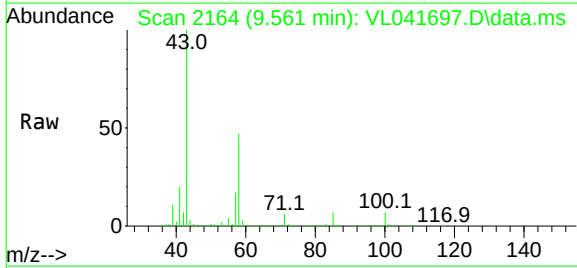
#51  
2-Hexanone  
Concen: 11.773 ppbv  
RT: 9.561 min Scan# 2160  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 2067266  
Ion Ratio Lower Upper  
43 100  
58 46.3 37.0 55.6  
98 0.6 0.6 0.8

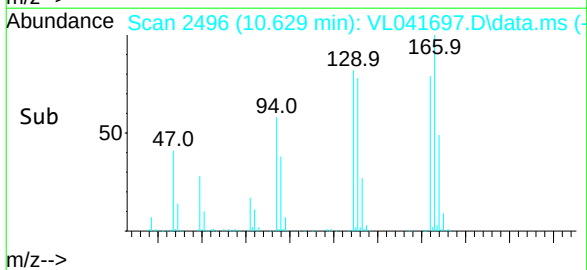
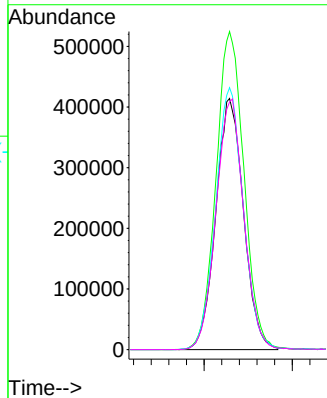
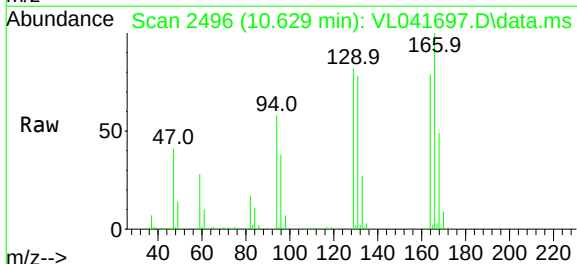
Manual Integrations  
APPROVED

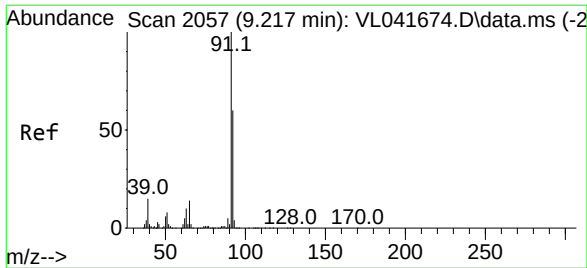
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#52  
Tetrachloroethene  
Concen: 11.336 ppbv  
RT: 10.629 min Scan# 2496  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion:164 Resp: 902967  
Ion Ratio Lower Upper  
164 100  
166 126.6 100.2 150.4  
129 104.2 79.7 119.5  
131 98.5 79.0 118.4





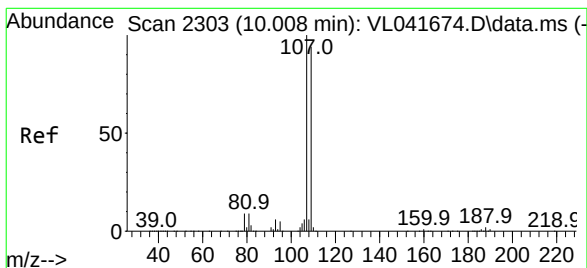
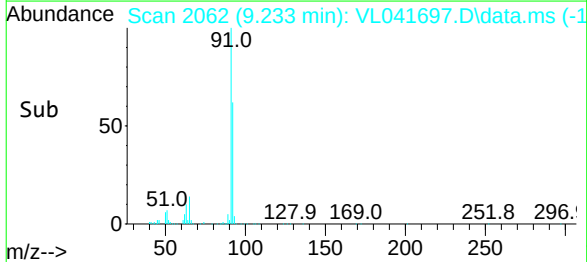
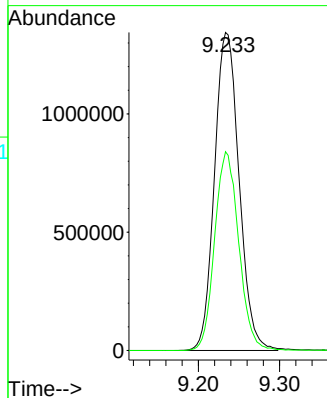
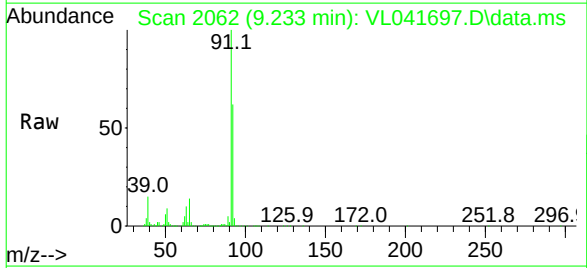
#53  
Toluene  
Concen: 11.509 ppbv  
RT: 9.233 min Scan# 2057  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 2828799  
Ion Ratio Lower Upper  
91 100  
92 61.3 49.0 73.4

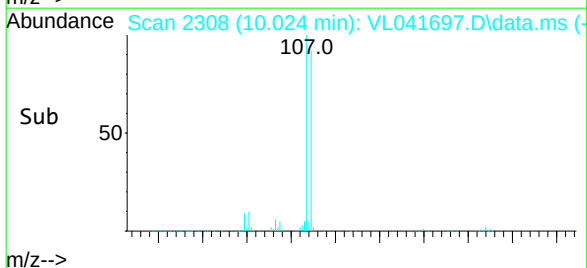
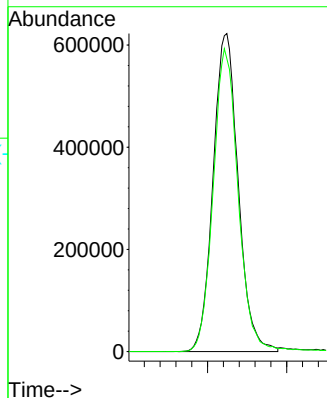
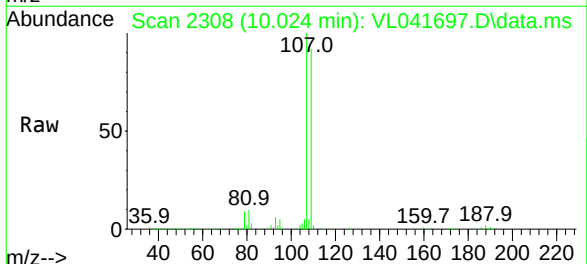
Manual Integrations  
APPROVED

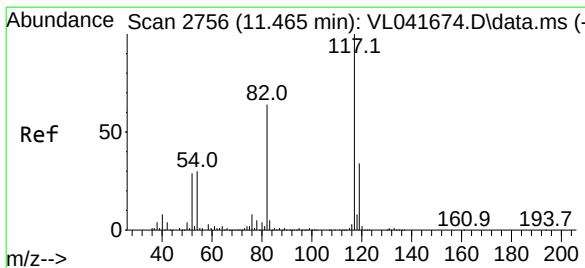
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#54  
1,2-Dibromoethane  
Concen: 11.753 ppbv  
RT: 10.024 min Scan# 2308  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

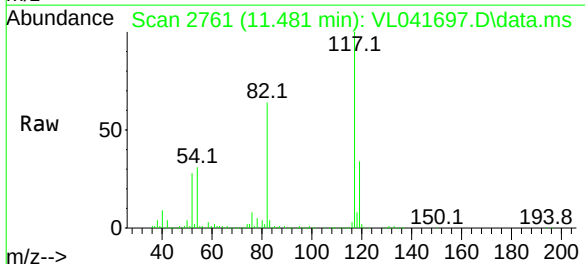
Tgt Ion:107 Resp: 1372700  
Ion Ratio Lower Upper  
107 100  
109 92.1 74.9 112.3





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 11.481 min Scan# 2756  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

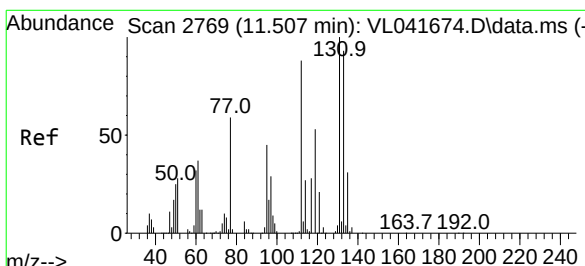
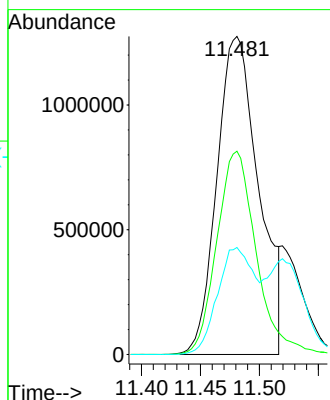
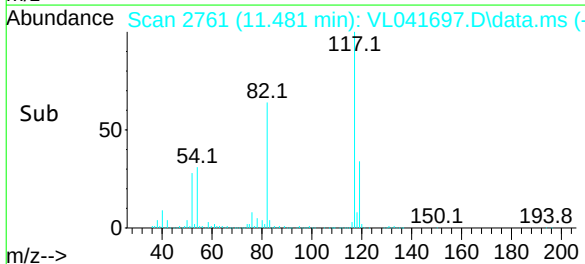
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



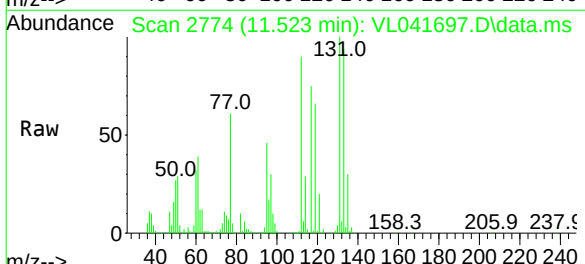
Tgt Ion:117 Resp: 3148626  
Ion Ratio Lower Upper  
117 100  
82 60.6 49.8 74.8  
119 31.4 24.2 36.4

Manual Integrations  
APPROVED

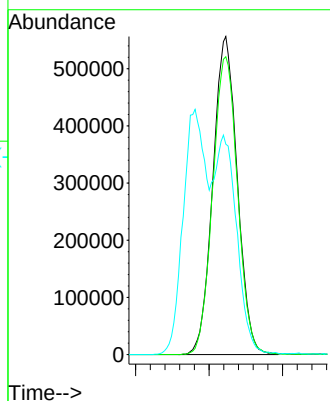
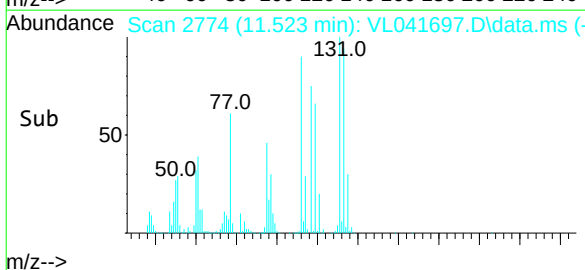
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

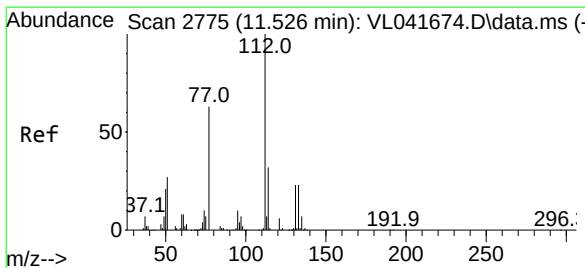


#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.885 ppbv  
RT: 11.523 min Scan# 2774  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09



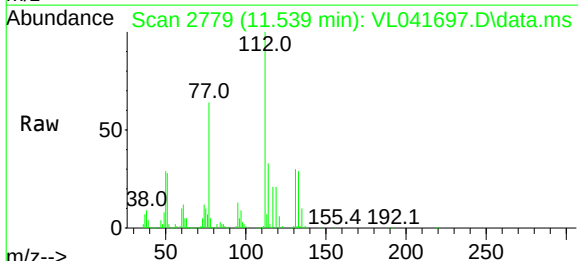
Tgt Ion:131 Resp: 1283659  
Ion Ratio Lower Upper  
131 100  
133 95.7 76.5 114.7  
119 61.9 49.8 74.8





#57  
Chlorobenzene  
Concen: 9.651 ppbv  
RT: 11.539 min Scan# 2775  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

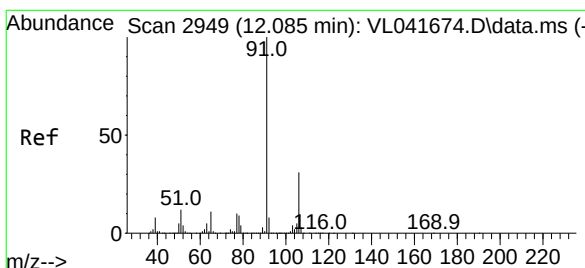
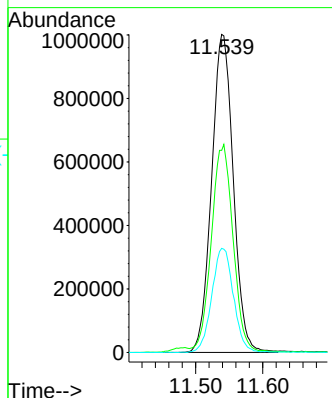
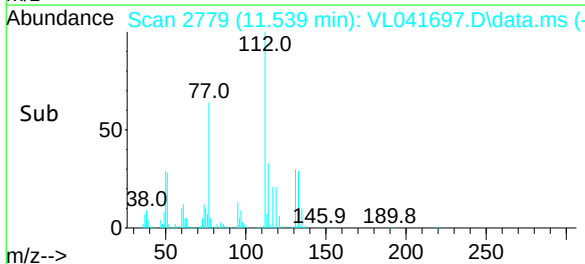
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 112 Resp: 2247475  
Ion Ratio Lower Upper  
112 100  
77 63.2 51.4 77.2  
114 32.8 28.4 34.8

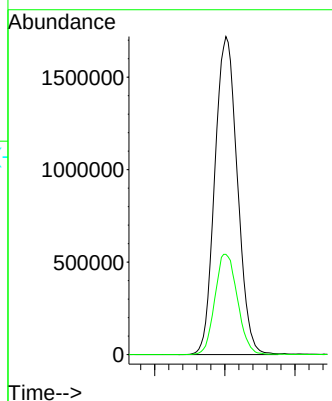
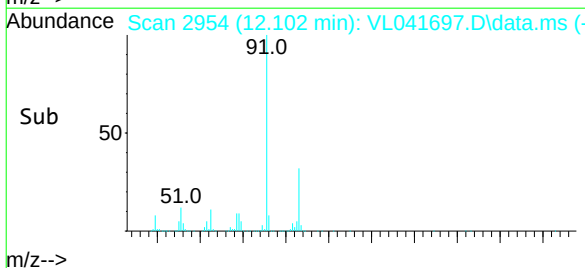
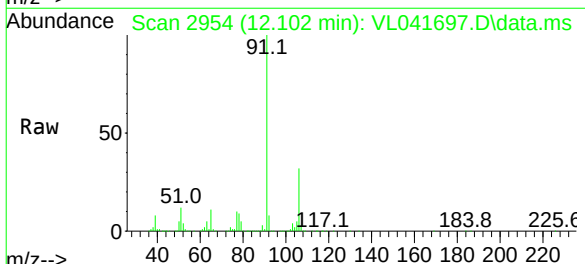
Manual Integrations  
APPROVED

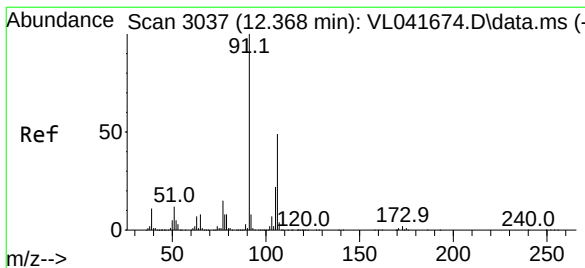
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#58  
Ethyl Benzene  
Concen: 11.134 ppbv  
RT: 12.102 min Scan# 2954  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 91 Resp: 3843108  
Ion Ratio Lower Upper  
91 100  
106 31.5 24.9 37.3





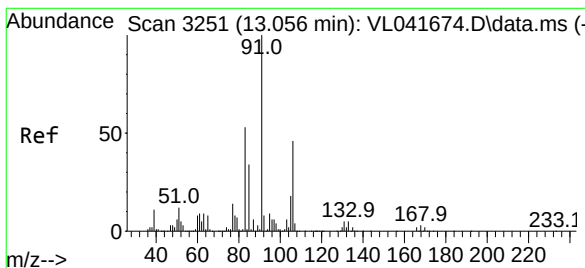
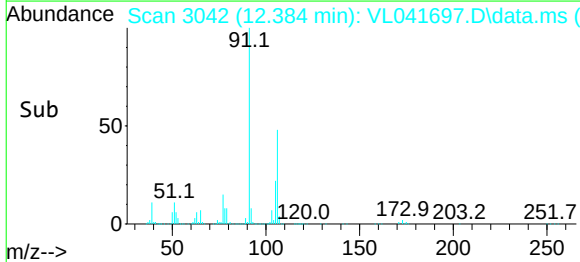
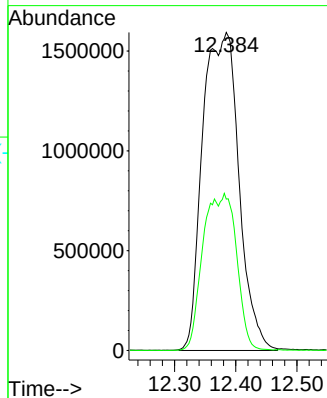
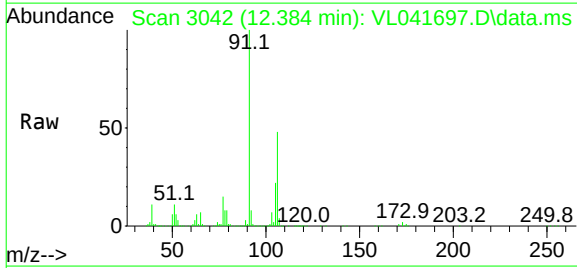
#59  
m/p-Xylene  
Concen: 21.210 ppbv m  
RT: 12.384 min Scan# 3037  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 6556478  
Ion Ratio Lower Upper  
91 100  
106 45.8 36.9 55.3

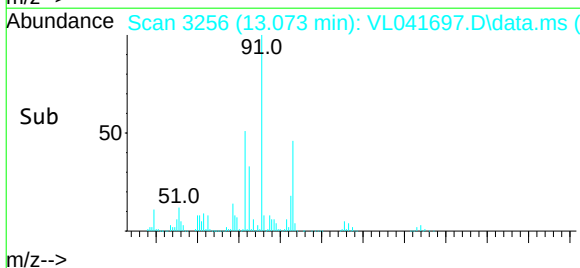
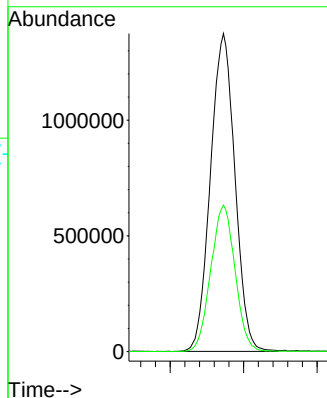
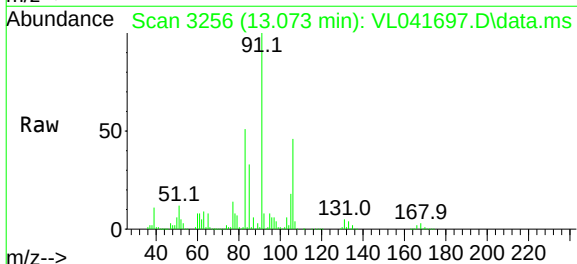
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

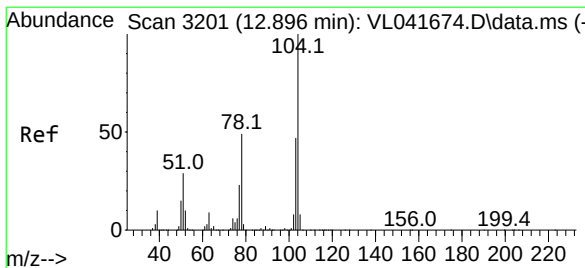


#60  
o-Xylene  
Concen: 10.774 ppbv  
RT: 13.073 min Scan# 3256  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 91 Resp: 3175724  
Ion Ratio Lower Upper  
91 100  
106 45.8 23.2 69.6







#61

Styrene

Concen: 12.538 ppbv

RT: 12.909 min Scan# 3205

Delta R.T. 0.013 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Instrument :

MSVOA\_L

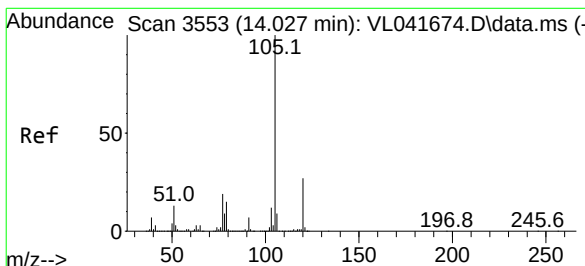
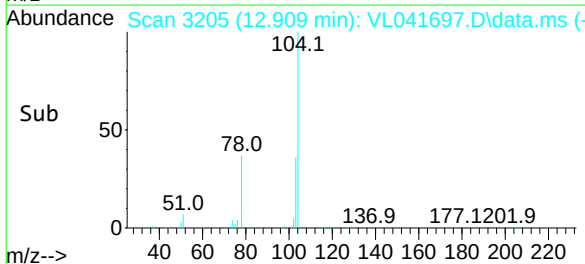
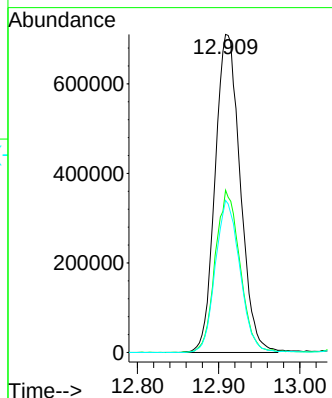
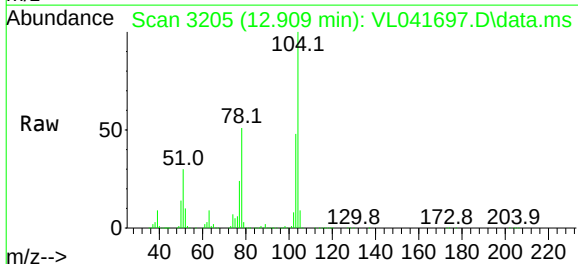
ClientSampleId :

VSTDCCC010

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 104   | Resp: | 1525338 |
| Ion      | Ratio | Lower | Upper   |
| 104      | 100   |       |         |
| 78       | 50.4  | 39.8  | 59.8    |
| 103      | 47.1  | 37.4  | 56.0    |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#62

Isopropylbenzene

Concen: 10.288 ppbv

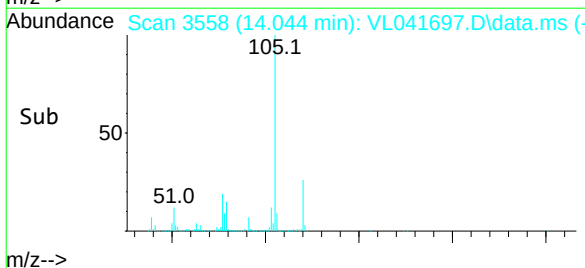
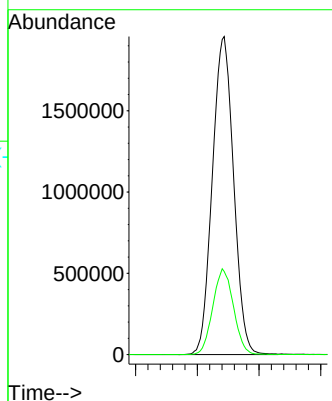
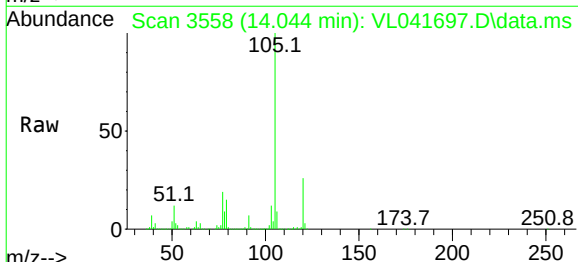
RT: 14.044 min Scan# 3558

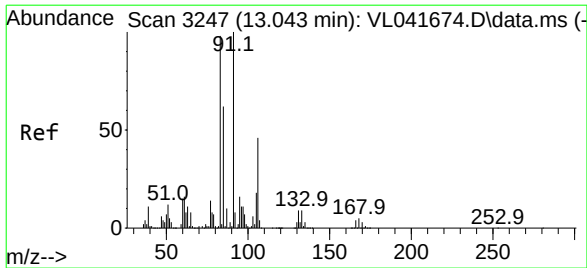
Delta R.T. 0.016 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

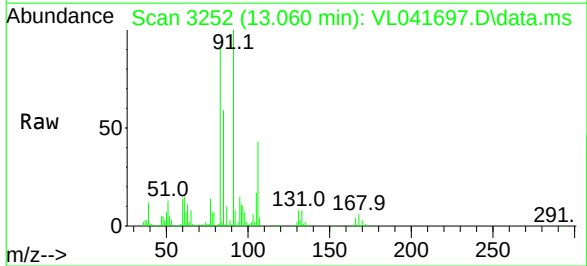
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 105   | Resp: | 4683267 |
| Ion      | Ratio | Lower | Upper   |
| 105      | 100   |       |         |
| 120      | 26.3  | 21.1  | 31.7    |





#63  
1,1,2,2-Tetrachloroethane  
Concen: 10.214 ppbv  
RT: 13.060 min Scan# 3214  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

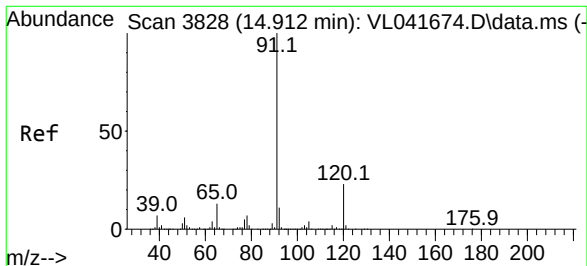
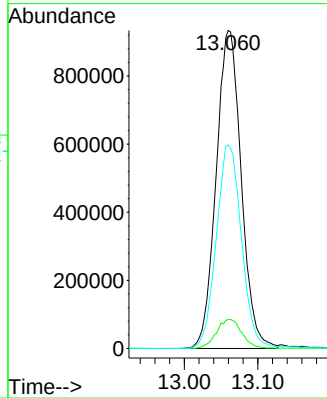
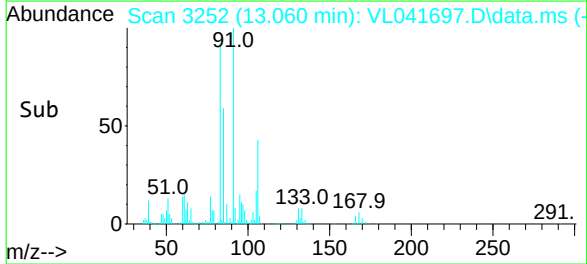
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 83 Resp: 2214634  
Ion Ratio Lower Upper  
83 100  
131 9.4 4.8 14.3  
85 64.8 32.6 98.0

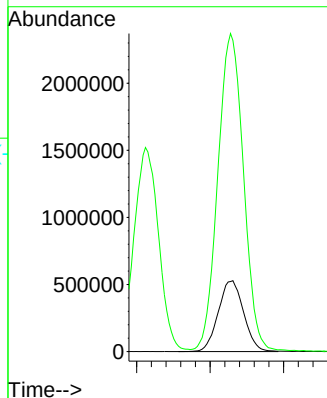
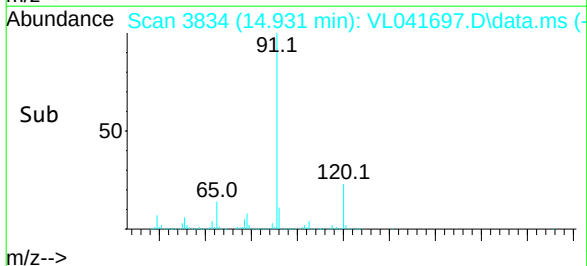
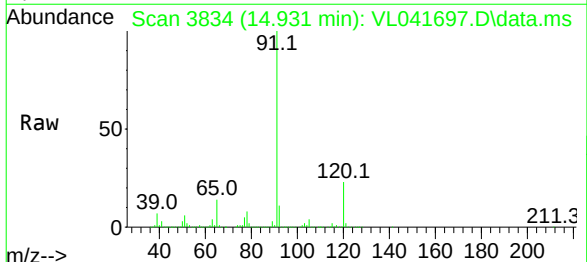
Manual Integrations  
APPROVED

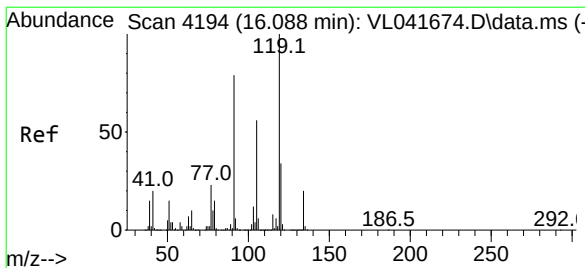
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#64  
n-propylbenzene  
Concen: 10.621 ppbv  
RT: 14.931 min Scan# 3834  
Delta R.T. 0.019 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion:120 Resp: 1265758  
Ion Ratio Lower Upper  
120 100  
91 455.9 362.4 543.6





#65  
tert-Butylbenzene  
Concen: 10.240 ppbv  
RT: 16.101 min Scan# 4198  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

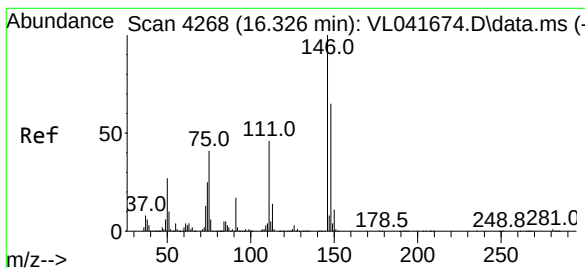
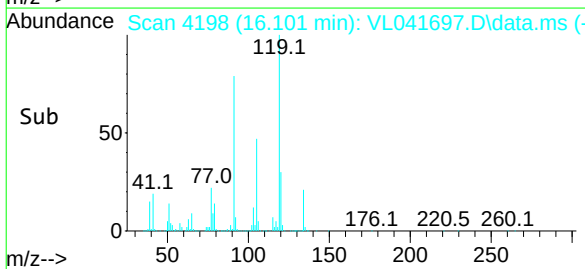
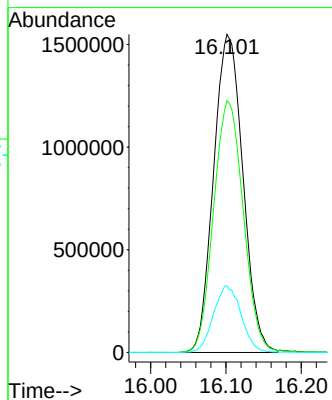
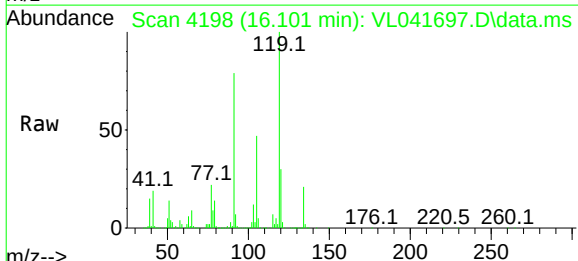
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 119 Resp: 4189774

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 91  | 80.4  | 64.3  | 96.5  |
| 134 | 19.9  | 15.8  | 23.8  |

Manual Integrations  
APPROVED

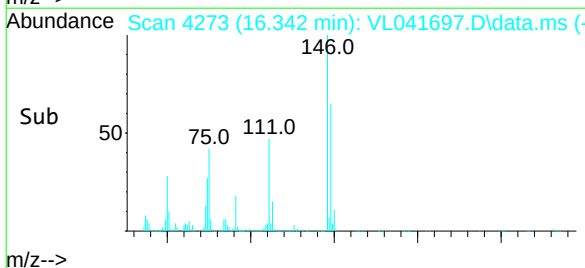
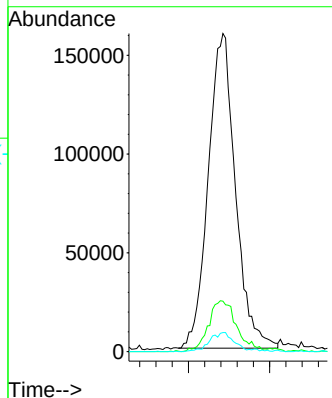
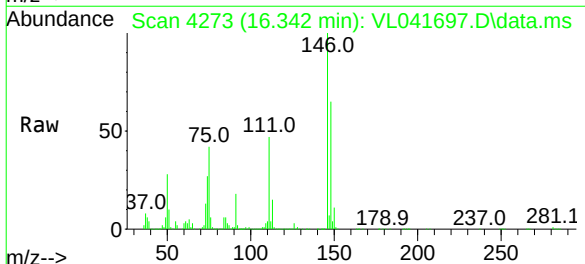
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

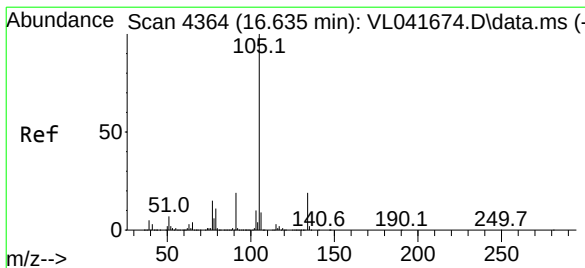


#66  
Benzyl Chloride  
Concen: 11.778 ppbv  
RT: 16.342 min Scan# 4273  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 91 Resp: 370716

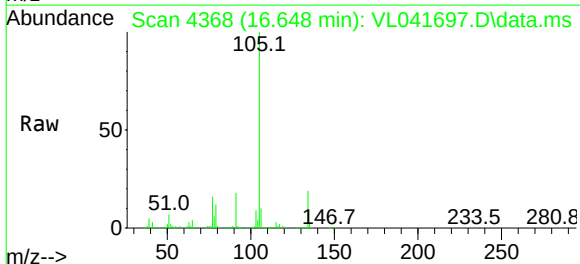
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 126 | 17.4  | 13.8  | 20.6  |
| 128 | 5.8   | 4.3   | 6.5   |





#67  
sec-Butylbenzene  
Concen: 10.201 ppbv  
RT: 16.648 min Scan# 4364  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

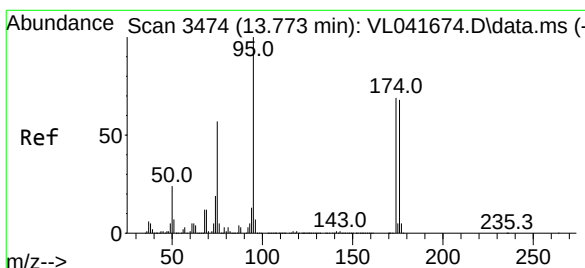
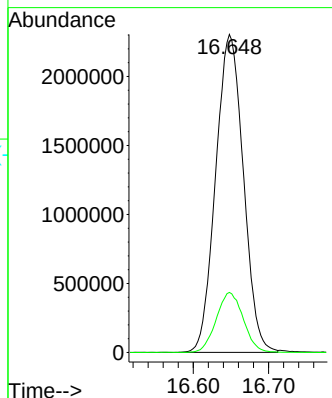
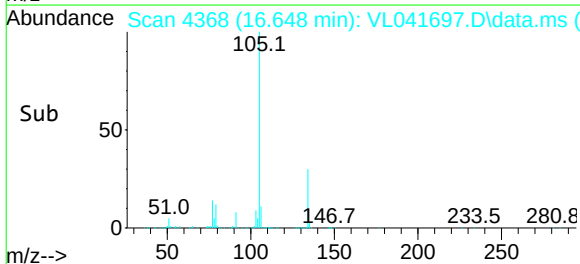
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



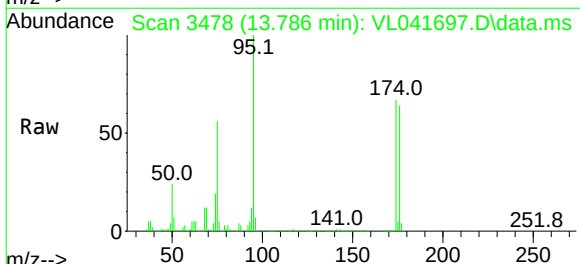
Tgt Ion: 105 Resp: 5882804  
Ion Ratio Lower Upper  
105 100  
134 18.5 14.6 22.0

Manual Integrations  
APPROVED

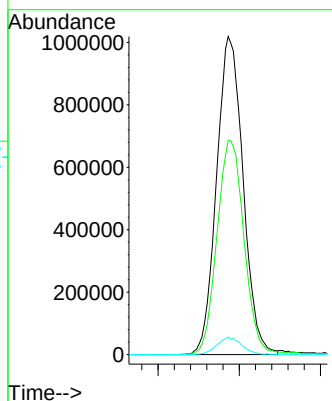
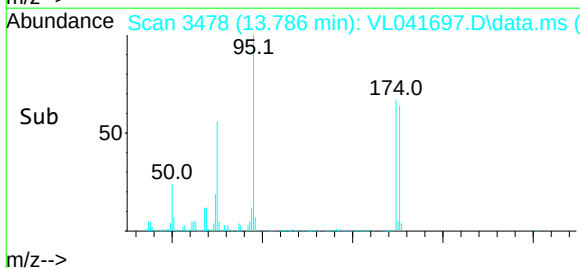
Reviewed By : Semsettin Yesilyurt 11/21/2024  
Supervised By : Mahesh Dadoda 11/21/2024

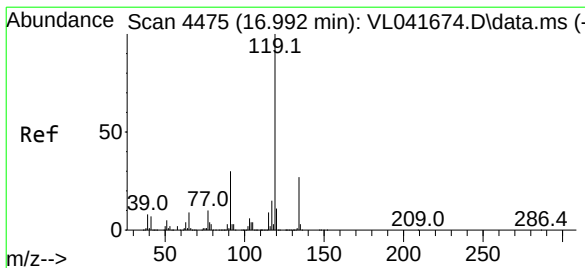


#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.957 ppbv  
RT: 13.786 min Scan# 3478  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09



Tgt Ion: 95 Resp: 2309915  
Ion Ratio Lower Upper  
95 100  
174 69.5 55.6 83.4  
175 5.2 4.2 6.2





#69

p-Isopropyltoluene

Concen: 10.535 ppbv

RT: 17.008 min Scan# 4475

Delta R.T. 0.016 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Instrument :

MSVOA\_L

ClientSampleId :

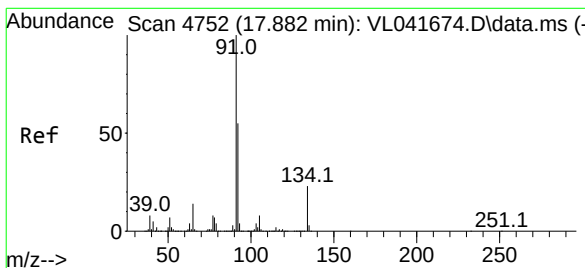
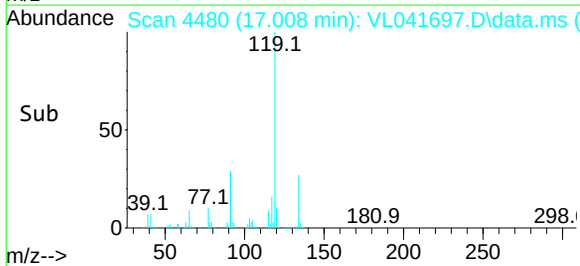
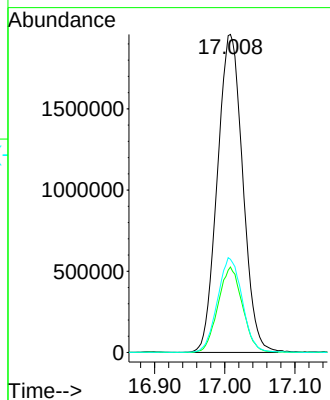
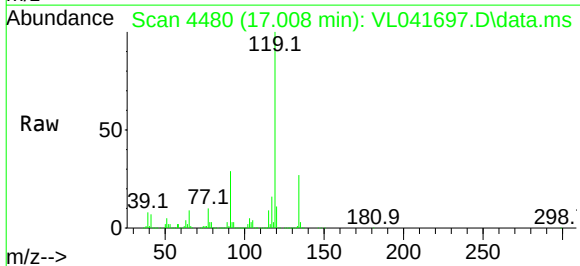
VSTDCCC010

Tgt Ion: 119 Resp: 4911348

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 134 | 25.9  | 20.8  | 31.2  |
| 91  | 29.2  | 23.2  | 34.8  |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#70

n-Butylbenzene

Concen: 10.643 ppbv

RT: 17.899 min Scan# 4757

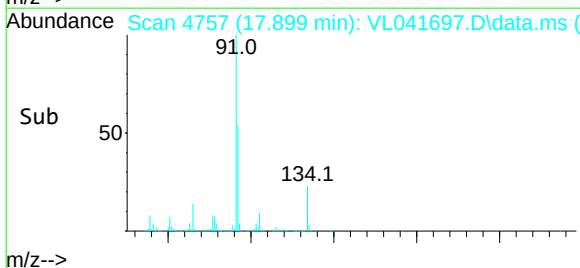
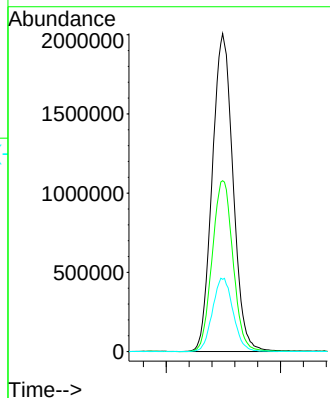
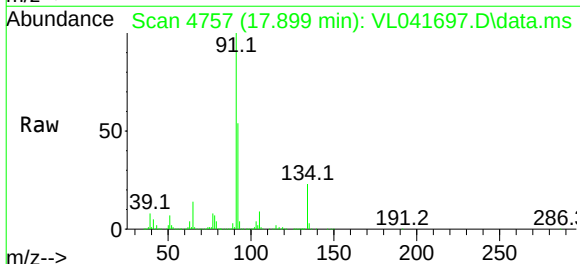
Delta R.T. 0.016 min

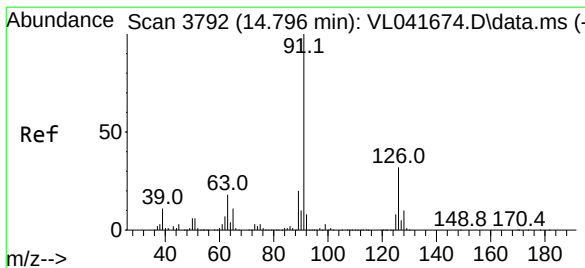
Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Tgt Ion: 91 Resp: 5076678

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 53.9  | 43.3  | 64.9  |
| 134 | 23.0  | 18.4  | 27.6  |





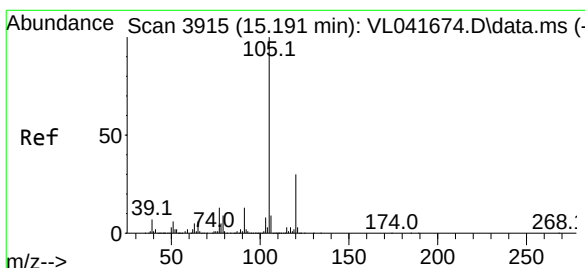
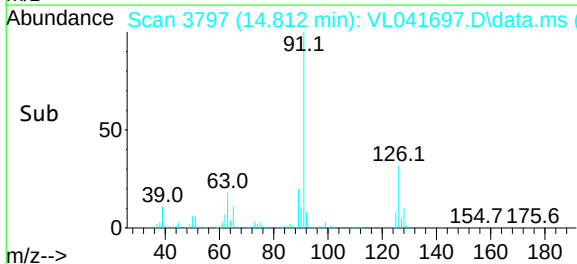
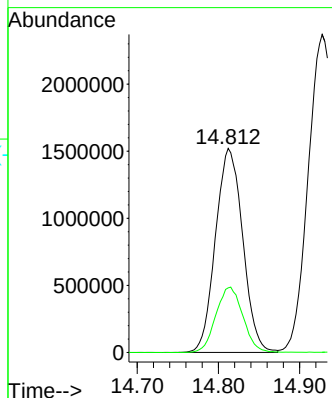
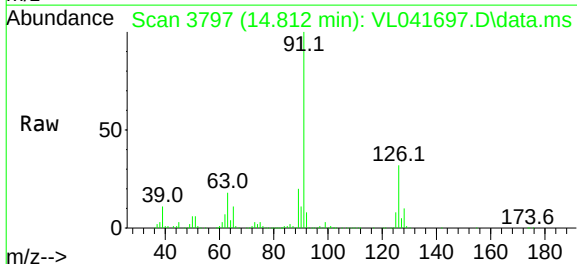
#71  
2-Chlorotoluene  
Concen: 10.763 ppbv  
RT: 14.812 min Scan# 3792  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 3541658  
Ion Ratio Lower Upper  
91 100  
126 31.9 12.8 51.0

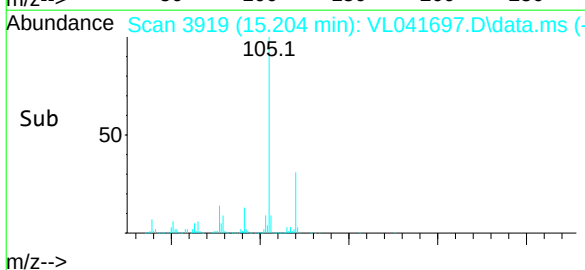
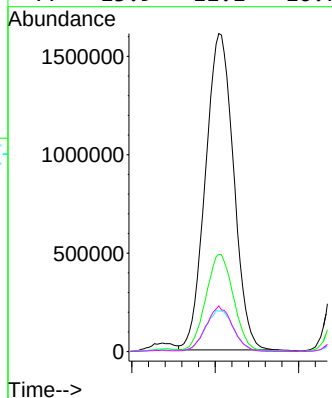
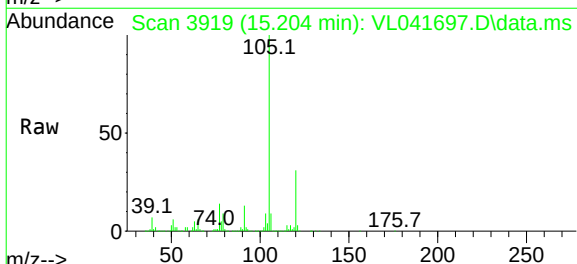
Manual Integrations  
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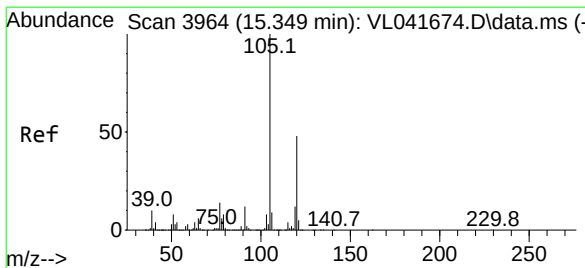
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#72  
4-Ethyltoluene  
Concen: 10.996 ppbv  
RT: 15.204 min Scan# 3919  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion:105 Resp: 3768131  
Ion Ratio Lower Upper  
105 100  
120 31.4 25.0 37.4  
91 13.7 10.6 15.8  
77 13.9 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.743 ppbv

RT: 15.362 min Scan# 39

Delta R.T. 0.013 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 3230569

Ion Ratio Lower Upper

105 100

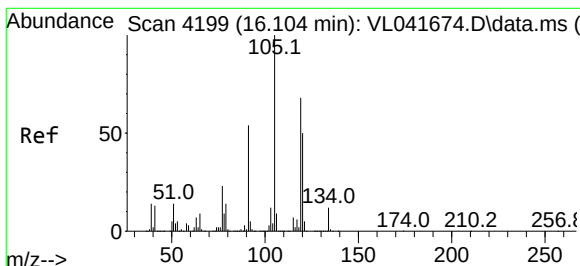
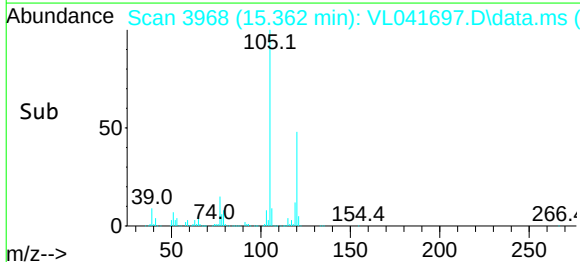
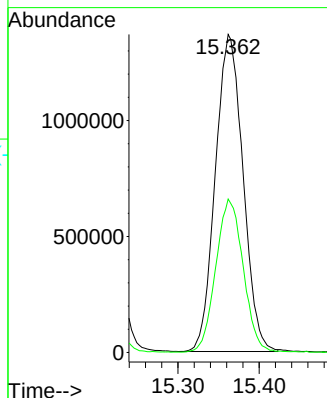
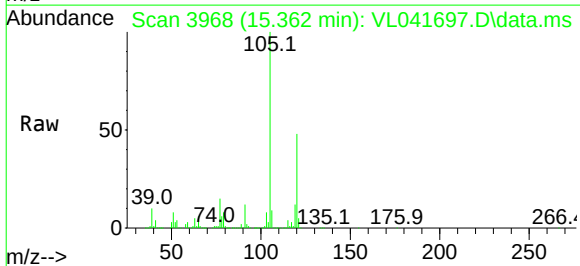
120 48.3 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024

Supervised By :Mahesh Dadoda 11/21/2024



#74

1,2,4-Trimethylbenzene

Concen: 10.304 ppbv

RT: 16.121 min Scan# 4204

Delta R.T. 0.016 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Tgt Ion:105 Resp: 3599066

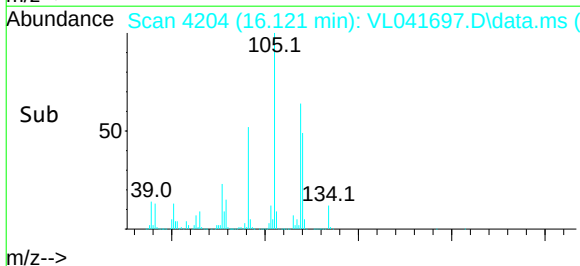
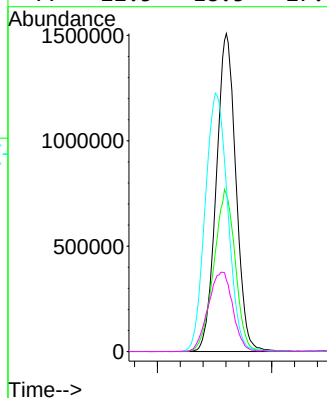
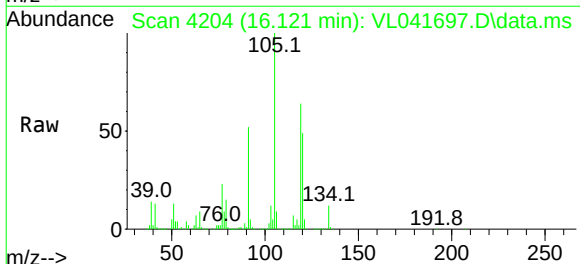
Ion Ratio Lower Upper

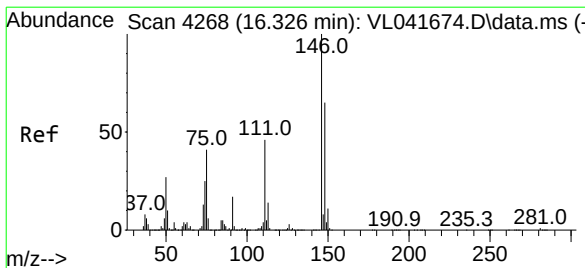
105 100

120 49.4 39.8 59.8

91 51.8 43.2 64.8

77 22.5 18.5 27.7





#75

1,3-Dichlorobenzene

Concen: 10.266 ppbv

RT: 16.346 min Scan# 4268

Delta R.T. 0.019 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:146 Resp: 2220877

Ion Ratio Lower Upper

146 100

111 45.1 22.8 68.3

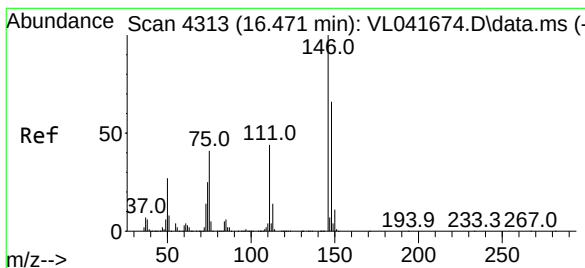
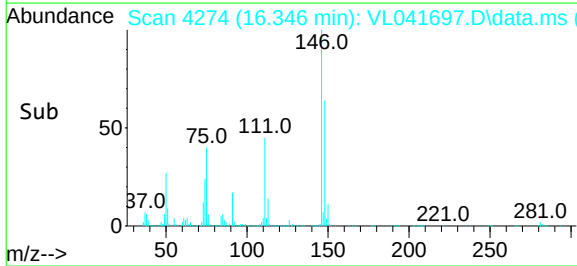
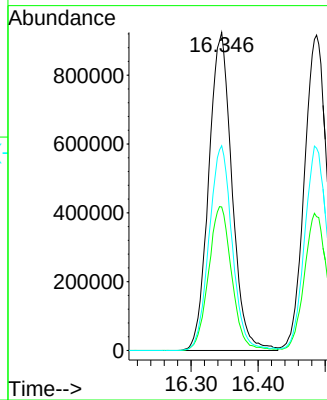
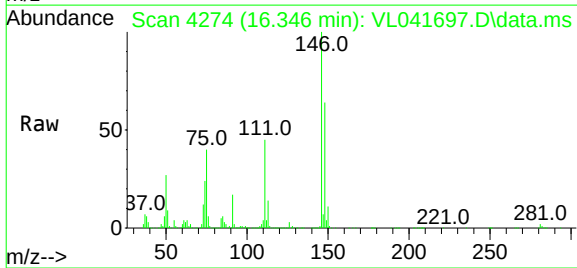
148 64.0 32.4 97.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024

Supervised By :Mahesh Dadoda 11/21/2024



#76

1,4-Dichlorobenzene

Concen: 10.462 ppbv

RT: 16.487 min Scan# 4318

Delta R.T. 0.016 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

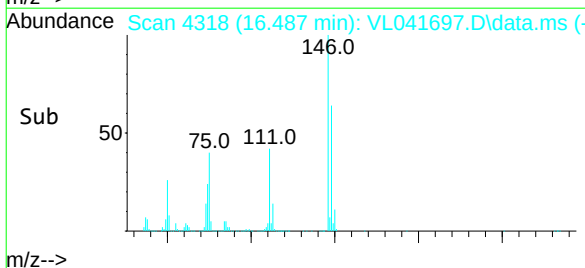
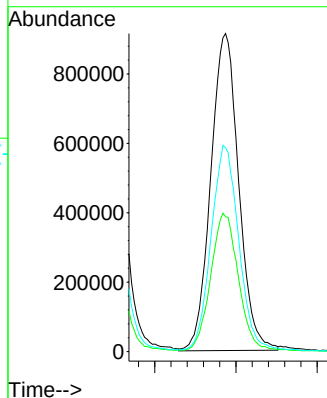
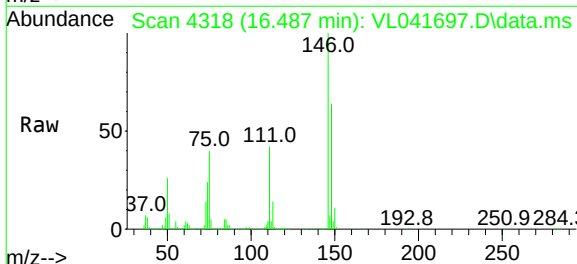
Tgt Ion:146 Resp: 2183586

Ion Ratio Lower Upper

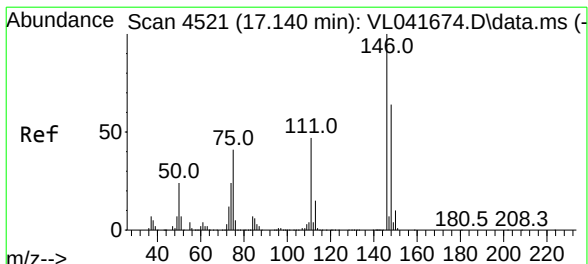
146 100

111 43.7 22.1 66.3

148 64.5 33.3 99.8

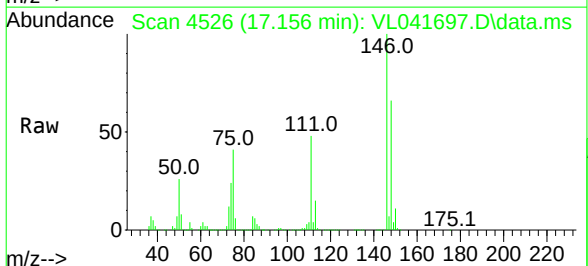






#77  
 1,2-Dichlorobenzene  
 Concen: 10.028 ppbv  
 RT: 17.156 min Scan# 4521  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

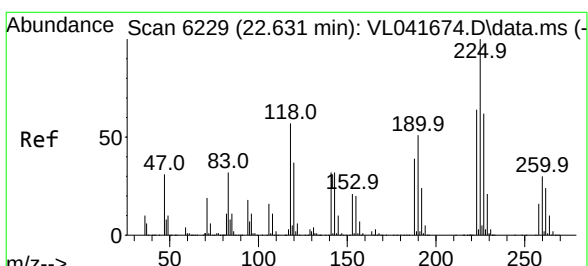
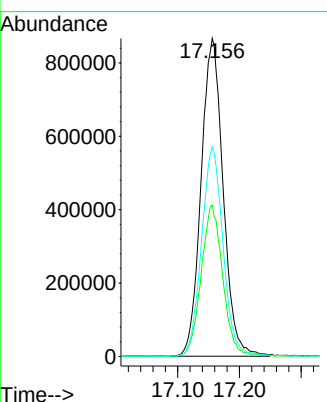
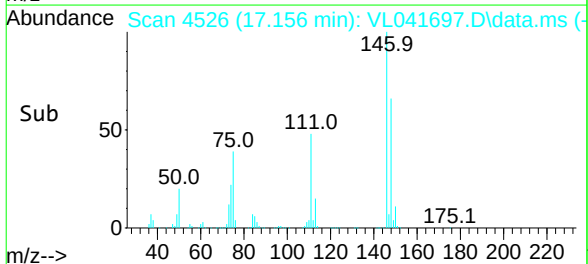
Instrument : MSVOA\_L  
 ClientSampleId : VSTDCCC010



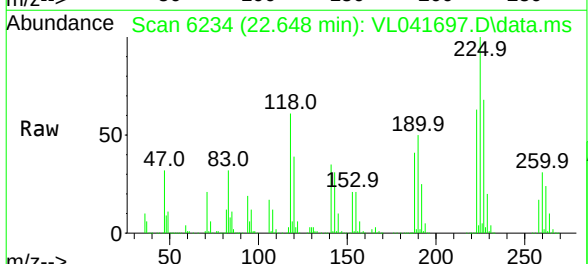
Tgt Ion: 146 Resp: 2149012

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 46.5  | 23.4  | 70.3  |
| 148 | 64.8  | 32.1  | 96.5  |

Manual Integrations  
**APPROVED**  
 Reviewed By : Semsettin Yesilyurt 11/21/2024  
 Supervised By : Mahesh Dadoda 11/21/2024

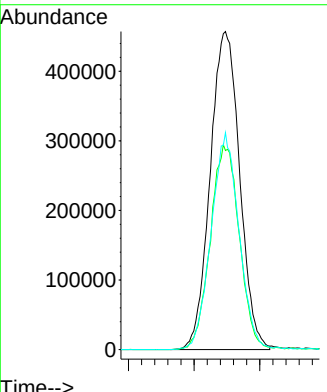
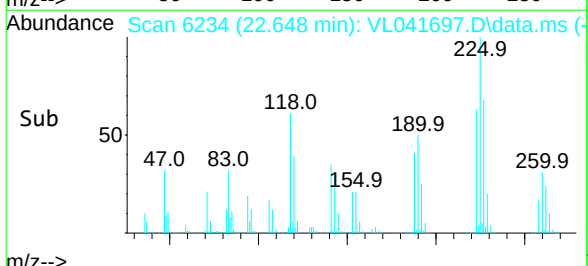


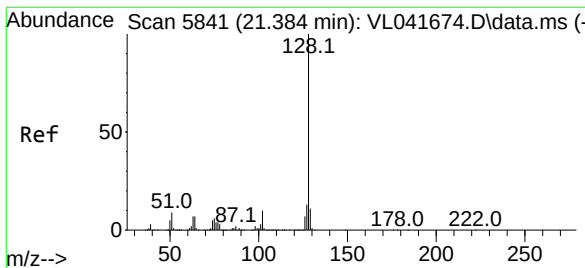
#78  
 Hexachloro-1,3-Butadiene  
 Concen: 8.407 ppbv  
 RT: 22.648 min Scan# 6234  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09



Tgt Ion: 225 Resp: 1424868

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 225 | 100   |       |       |
| 223 | 63.6  | 51.1  | 76.7  |
| 227 | 64.4  | 51.3  | 76.9  |





#79

Naphthalene

Concen: 13.019 ppbv

RT: 21.400 min Scan# 5841

Delta R.T. 0.016 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:128 Resp: 2807004

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

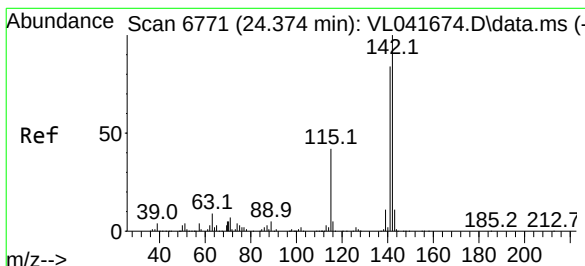
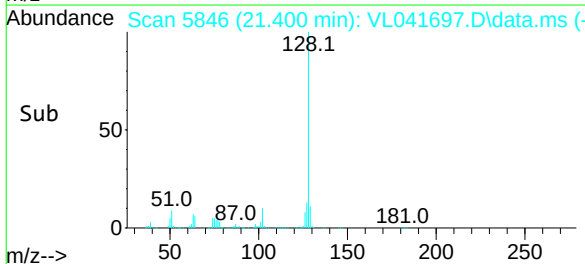
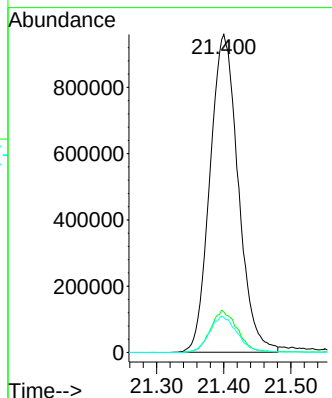
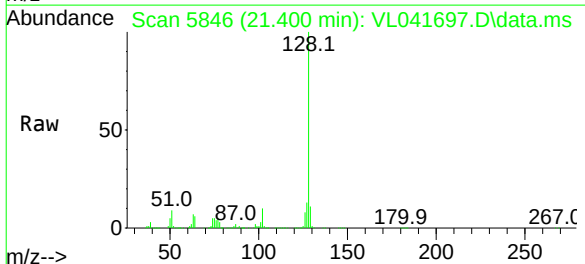
129 11.0 8.7 13.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/21/2024

Supervised By :Mahesh Dadoda 11/21/2024



#80

Naphthalene,2-methyl-

Concen: 11.821 ppbv

RT: 24.387 min Scan# 6775

Delta R.T. 0.013 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

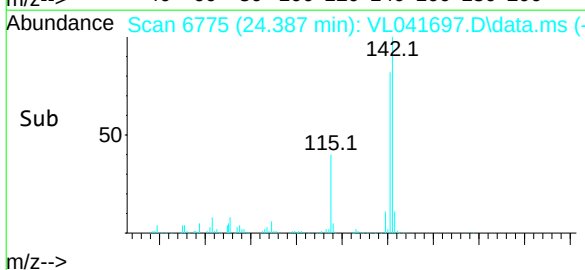
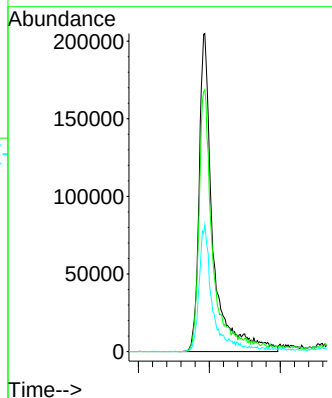
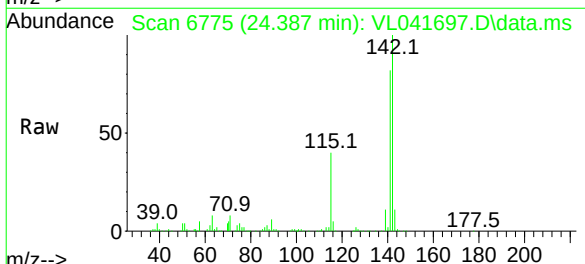
Tgt Ion:142 Resp: 555593

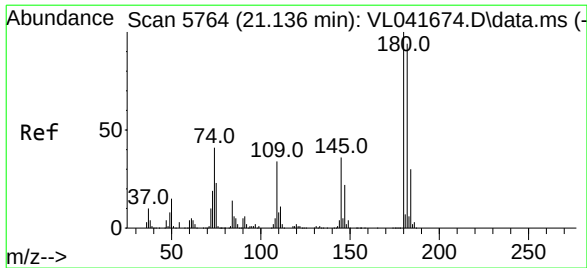
Ion Ratio Lower Upper

142 100

141 83.0 68.1 102.1

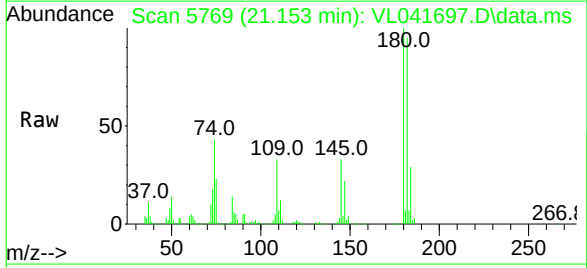
115 39.5 33.1 49.7





#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.633 ppbv  
 RT: 21.153 min Scan# 5769  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

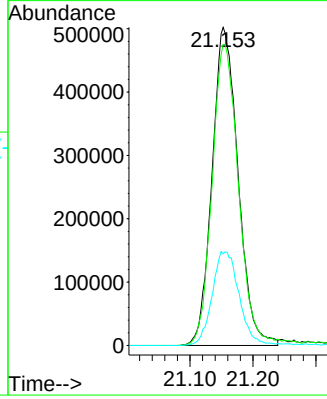
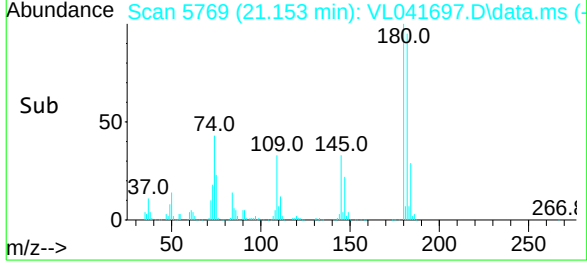
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 180   | Resp: | 1441696 |
| Ion Ratio | Lower | Upper |         |
| 180       | 100   |       |         |
| 182       | 96.9  | 78.2  | 117.2   |
| 184       | 30.7  | 25.0  | 37.4    |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024  
 Supervised By :Mahesh Dadoda 11/21/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112024\  
Data File : VL041697.D  
Acq On : 20 Nov 2024 8:09  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Nov 21 05:07:41 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 01:01:00 2024  
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   | 96    | 0.02     |
| 2 T  | Dichlorodifluoromethane     | 1.807 | 1.905  | -5.4  | 97    | 0.01     |
| 3    | Chlorodifluoromethane       | 1.303 | 1.260  | 3.3   | 102   | 0.01     |
| 4    | Chloromethane               | 0.690 | 0.681  | 1.3   | 101   | 0.01     |
| 5 T  | Vinyl Chloride              | 0.621 | 0.660  | -6.3  | 101   | 0.02     |
| 6 T  | Bromomethane                | 0.329 | 0.342  | -4.0  | 104   | 0.02     |
| 7    | Chloroethane                | 0.227 | 0.234  | -3.1  | 101   | 0.02     |
| 8 T  | Dichlorotetrafluoroethane   | 1.613 | 1.577  | 2.2   | 103   | 0.02     |
| 9 T  | Propene                     | 0.568 | 0.563  | 0.9   | 102   | 0.01     |
| 10 T | Heptane                     | 1.272 | 1.394  | -9.6  | 102   | 0.01     |
| 11 T | Trichlorofluoromethane      | 1.574 | 1.584  | -0.6  | 103   | 0.02     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.144 | 1.149  | -0.4  | 103   | 0.02     |
| 13   | Ethanol                     | 0.035 | 0.031# | 11.4  | 104   | 0.00     |
| 14 T | Bromoethene                 | 0.460 | 0.474  | -3.0  | 106   | 0.01     |
| 15 T | Acetone                     | 1.231 | 1.217  | 1.1   | 106   | 0.02     |
| 16 T | 1,3-Butadiene               | 0.621 | 0.667  | -7.4  | 102   | 0.02     |
| 17   | tert-Butyl alcohol          | 1.080 | 1.099  | -1.8  | 102   | 0.02     |
| 18 T | 1,1-Dichloroethene          | 0.502 | 0.522  | -4.0  | 105   | 0.02     |
| 19 T | Isopropyl Alcohol           | 0.588 | 0.602  | -2.4  | 105   | 0.02     |
| 20 T | Methylene Chloride          | 0.453 | 0.432  | 4.6   | 104   | 0.02     |
| 21 T | Allyl Chloride              | 0.761 | 0.820  | -7.8  | 104   | 0.02     |
| 22 T | trans-1,2-Dichloroethene    | 0.499 | 0.530  | -6.2  | 105   | 0.02     |
| 23 T | Vinyl Acetate               | 0.543 | 0.566  | -4.2  | 106   | 0.02     |
| 24 T | 1,1-Dichloroethane          | 1.114 | 1.148  | -3.1  | 105   | 0.02     |
| 25 T | Ethyl Acetate               | 2.548 | 2.629  | -3.2  | 102   | 0.01     |
| 26 T | Hexane                      | 0.979 | 1.034  | -5.6  | 103   | 0.02     |
| 27 T | Carbon Disulfide            | 1.100 | 1.288  | -17.1 | 105   | 0.02     |
| 28 T | Methyl tert-Butyl Ether     | 0.630 | 0.620  | 1.6   | 104   | 0.02     |
| 29 T | Chloroform                  | 1.616 | 1.636  | -1.2  | 103   | 0.02     |
| 30 T | Cyclohexane                 | 0.833 | 0.887  | -6.5  | 103   | 0.02     |
| 31 T | cis-1,2-Dichloroethene      | 0.942 | 0.999  | -6.1  | 102   | 0.02     |
| 32 T | 1,1,1-Trichloroethane       | 1.474 | 1.573  | -6.7  | 101   | 0.02     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 97    | 0.02     |
| 34 T | 2-Butanone                  | 0.498 | 0.485  | 2.6   | 98    | 0.02     |
| 35 T | Carbon Tetrachloride        | 0.528 | 0.592  | -12.1 | 102   | 0.02     |
| 36 T | Benzene                     | 0.741 | 0.784  | -5.8  | 103   | 0.02     |
| 37 T | 1,2-Dichloroethane          | 0.418 | 0.435  | -4.1  | 103   | 0.02     |
| 38 T | Trichloroethene             | 0.285 | 0.318  | -11.6 | 102   | 0.02     |
| 39 T | 1,2-Dichloropropane         | 0.293 | 0.303  | -3.4  | 103   | 0.02     |
| 40 T | 1,4-Dioxane                 | 0.105 | 0.116  | -10.5 | 101   | 0.02     |
| 41 T | Tetrahydrofuran             | 0.284 | 0.314  | -10.6 | 103   | 0.02     |
| 42 T | Bromodichloromethane        | 0.581 | 0.621  | -6.9  | 102   | 0.02     |
| 43   | Methyl Methacrylate         | 0.260 | 0.300  | -15.4 | 101   | 0.02     |
| 44 T | 2,2,4-Trimethylpentane      | 1.255 | 1.323  | -5.4  | 102   | 0.02     |
| 45 T | t-1,3-Dichloropropene       | 0.238 | 0.301  | -26.5 | 103   | 0.02     |
| 46 T | cis-1,3-Dichloropropene     | 0.341 | 0.407  | -19.4 | 102   | 0.02     |
| 47 T | 1,1,2-Trichloroethane       | 0.317 | 0.324  | -2.2  | 102   | 0.02     |
| 48 T | Dibromochloromethane        | 0.482 | 0.536  | -11.2 | 101   | 0.02     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL1102024\  
 Data File : VL041697.D  
 Acq On : 20 Nov 2024 8:09  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Nov 21 05:07:41 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 01:01:00 2024  
 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                 | 0.412 | 0.475 | -15.3  | 100   | 0.02     |
| 50 T | 4-Methyl-2-Pentanone      | 0.764 | 0.837 | -9.6   | 100   | 0.01     |
| 51 T | 2-Hexanone                | 0.557 | 0.655 | -17.6  | 101   | 0.01     |
| 52 T | Tetrachloroethene         | 0.252 | 0.286 | -13.5  | 100   | 0.01     |
| 53 T | Toluene                   | 0.779 | 0.897 | -15.1  | 101   | 0.02     |
| 54 T | 1,2-Dibromoethane         | 0.370 | 0.435 | -17.6  | 101   | 0.02     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 95    | 0.02     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.412 | 0.408 | 1.0    | 101   | 0.02     |
| 57 T | Chlorobenzene             | 0.740 | 0.714 | 3.5    | 100   | 0.01     |
| 58 T | Ethyl Benzene             | 1.096 | 1.221 | -11.4  | 101   | 0.02     |
| 59 T | m/p-Xylene                | 0.982 | 1.041 | -6.0   | 101   | 0.02     |
| 60 T | o-Xylene                  | 0.936 | 1.009 | -7.8   | 101   | 0.02     |
| 61 T | Styrene                   | 0.386 | 0.484 | -25.4  | 101   | 0.01     |
| 62   | Isopropylbenzene          | 1.446 | 1.487 | -2.8   | 101   | 0.02     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.689 | 0.703 | -2.0   | 101   | 0.02     |
| 64   | n-propylbenzene           | 0.378 | 0.402 | -6.3   | 101   | 0.02     |
| 65   | tert-Butylbenzene         | 1.299 | 1.331 | -2.5   | 101   | 0.01     |
| 66 T | Benzyl Chloride           | 0.100 | 0.118 | -18.0  | 103   | 0.02     |
| 67   | sec-Butylbenzene          | 1.831 | 1.868 | -2.0   | 100   | 0.01     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.737 | 0.734 | 0.4    | 97    | 0.01     |
| 69   | p-Isopropyltoluene        | 1.481 | 1.560 | -5.3   | 100   | 0.02     |
| 70   | n-Butylbenzene            | 1.515 | 1.612 | -6.4   | 101   | 0.02     |
| 71   | 2-Chlorotoluene           | 1.045 | 1.125 | -7.7   | 101   | 0.02     |
| 72 T | 4-Ethyltoluene            | 1.088 | 1.197 | -10.0  | 100   | 0.01     |
| 73 T | 1,3,5-Trimethylbenzene    | 0.955 | 1.026 | -7.4   | 100   | 0.01     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.109 | 1.143 | -3.1   | 101   | 0.02     |
| 75 T | 1,3-Dichlorobenzene       | 0.687 | 0.705 | -2.6   | 101   | 0.02     |
| 76 T | 1,4-Dichlorobenzene       | 0.663 | 0.694 | -4.7   | 102   | 0.02     |
| 77 T | 1,2-Dichlorobenzene       | 0.681 | 0.683 | -0.3   | 100   | 0.02     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.538 | 0.453 | 15.8   | 100   | 0.02     |
| 79 T | Naphthalene               | 0.685 | 0.892 | -30.2# | 101   | 0.02     |
| 80 T | Naphthalene,2-methyl-     | 0.149 | 0.176 | -18.1  | 119   | 0.01     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.431 | 0.458 | -6.3   | 102   | 0.02     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4633 SAS No.: P4633 SDG No.: P4633

Instrument ID: MSVOA\_L Calibration Date/Time: 11/21/2024 08:50

Lab File ID: VL041711.D Init. Calib. Date(s): 11/07/2024 11/07/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:15 14:12

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

| COMPOUND                       | RRF   | RRF010 | MIN<br>RRF | %D     | MAX%D |
|--------------------------------|-------|--------|------------|--------|-------|
| Chlorodifluoromethane          | 0.467 | 0.438  |            | -6.21  | 30    |
| Dichlorodifluoromethane        | 1.807 | 1.212  |            | -32.93 | 30    |
| Ethanol                        | 0.035 | 0.031  |            | -11.43 | 30    |
| Chloromethane                  | 0.690 | 0.658  |            | -4.64  | 30    |
| Vinyl Chloride                 | 0.621 | 0.629  |            | 1.29   | 30    |
| Ethyl Acetate                  | 2.548 | 2.515  |            | -1.29  | 30    |
| Bromomethane                   | 0.329 | 0.323  |            | -1.82  | 30    |
| Chloroethane                   | 0.227 | 0.229  |            | 0.88   | 30    |
| Tetrahydrofuran                | 0.284 | 0.314  |            | 10.56  | 30    |
| Trichlorofluoromethane         | 1.574 | 1.487  |            | -5.53  | 30    |
| 1,1,2-Trichlorotrifluoroethane | 1.144 | 1.106  |            | -3.32  | 30    |
| Dichlorotetrafluoroethane      | 1.613 | 1.494  |            | -7.38  | 30    |
| Bromoethene                    | 0.460 | 0.448  |            | -2.61  | 30    |
| Propene                        | 0.568 | 0.535  |            | -5.81  | 30    |
| tert-Butyl alcohol             | 1.080 | 1.080  |            | 0      | 30    |
| Heptane                        | 1.272 | 1.333  |            | 4.8    | 30    |
| Isopropyl Alcohol              | 0.588 | 0.581  |            | -1.19  | 30    |
| 1,1-Dichloroethene             | 0.502 | 0.487  |            | -2.99  | 30    |
| Acetone                        | 1.231 | 1.137  |            | -7.64  | 30    |
| Carbon Disulfide               | 1.100 | 1.195  |            | 8.64   | 30    |
| Methyl tert-Butyl Ether        | 0.630 | 0.609  |            | -3.33  | 30    |
| Methylene Chloride             | 0.453 | 0.410  |            | -9.49  | 30    |
| trans-1,2-Dichloroethene       | 0.499 | 0.500  |            | 0.2    | 30    |
| Vinyl Acetate                  | 0.543 | 0.536  |            | -1.29  | 30    |
| 1,1-Dichloroethane             | 1.114 | 1.068  |            | -4.13  | 30    |
| Cyclohexane                    | 0.833 | 0.844  |            | 1.32   | 30    |
| 2-Butanone                     | 0.498 | 0.450  |            | -9.64  | 30    |
| Carbon Tetrachloride           | 0.528 | 0.568  |            | 7.58   | 30    |
| cis-1,2-Dichloroethene         | 0.942 | 0.961  |            | 2.02   | 30    |
| Chloroform                     | 1.616 | 1.533  |            | -5.14  | 30    |
| 1,1,1-Trichloroethane          | 1.474 | 1.501  |            | 1.83   | 30    |
| 2,2,4-Trimethylpentane         | 1.255 | 1.287  |            | 2.55   | 30    |
| Benzene                        | 0.741 | 0.766  |            | 3.37   | 30    |
| 1,2-Dichloroethane             | 0.418 | 0.423  |            | 1.2    | 30    |
| Trichloroethene                | 0.285 | 0.311  |            | 9.12   | 30    |
| 1,2-Dichloropropane            | 0.293 | 0.294  |            | 0.34   | 30    |
| Bromodichloromethane           | 0.581 | 0.606  |            | 4.3    | 30    |
| 4-Methyl-2-Pentanone           | 0.764 | 0.825  |            | 7.98   | 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: CHEM02

Lab Code: CHEM Case No.: P4633 SAS No.: P4633 SDG No.: P4633

Instrument ID: MSVOA\_L Calibration Date/Time: 11/21/2024 08:50

Lab File ID: VL041711.D Init. Calib. Date(s): 11/07/2024 11/07/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:15 14:12

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

| COMPOUND                  | RRF     | RRF010  | MIN<br>RRF | %D    | MAX%D |
|---------------------------|---------|---------|------------|-------|-------|
| Toluene                   | 0.779   | 0.882   |            | 13.22 | 30    |
| t-1,3-Dichloropropene     | 0.238   | 0.293   |            | 23.11 | 30    |
| cis-1,3-Dichloropropene   | 0.341   | 0.398   |            | 16.72 | 30    |
| 1,1,2-Trichloroethane     | 0.317   | 0.314   |            | -0.95 | 30    |
| 2-Hexanone                | 0.557   | 0.638   |            | 14.54 | 30    |
| Dibromochloromethane      | 0.482   | 0.517   |            | 7.26  | 30    |
| 1,2-Dibromoethane         | 0.370   | 0.425   |            | 14.86 | 30    |
| Tetrachloroethene         | 0.252   | 0.281   |            | 11.51 | 30    |
| Chlorobenzene             | 0.740   | 0.735   |            | -0.68 | 30    |
| Ethyl Benzene             | 1.096   | 1.271   |            | 15.97 | 30    |
| m/p-Xylene                | 0.982   | 1.078   |            | 9.78  | 30    |
| o-Xylene                  | 0.936   | 1.037   |            | 10.79 | 30    |
| Styrene                   | 0.386   | 0.500   |            | 29.53 | 30    |
| Bromoform                 | 0.412   | 0.457   |            | 10.92 | 30    |
| Isopropylbenzene          | 1.446   | 1.530   |            | 5.81  | 30    |
| 1,1,2,2-Tetrachloroethane | 0.689   | 0.719   |            | 4.35  | 30    |
| 2-Chlorotoluene           | 1.045   | 1.163   |            | 11.29 | 30    |
| 1,3,5-Trimethylbenzene    | 0.955   | 1.062   |            | 11.2  | 30    |
| 1,2,4-Trimethylbenzene    | 1.109   | 1.174   |            | 5.86  | 30    |
| 1,3-Dichlorobenzene       | 0.687   | 0.723   |            | 5.24  | 30    |
| 1,4-Dichlorobenzene       | 0.663   | 0.699   |            | 5.43  | 30    |
| 1,2-Dichlorobenzene       | 0.681   | 0.704   |            | 3.38  | 30    |
| 1,2,4-Trichlorobenzene    | 0.431   | 0.501   |            | 16.24 | 30    |
| Hexachloro-1,3-Butadiene  | 0.538   | 0.486   |            | -9.66 | 30    |
| 1,3-Butadiene             | 0.621   | 0.630   |            | 1.45  | 30    |
| Naphthalene               | 0.685   | 0.985   |            | 43.8  | 30    |
| 4-Ethyltoluene            | 1.088   | 1.247   |            | 14.61 | 30    |
| 1-Bromo-4-Fluorobenzene   | 0.737   | 0.753   |            | 2.17  | 30    |
| Hexane                    | 0.979   | 0.996   |            | 1.74  | 30    |
| Allyl Chloride            | 0.761   | 0.771   |            | 1.31  | 30    |
| Benzyl Chloride           | 0.100   | 0.120   |            | 20    | 30    |
| 1,4-Dioxane               | 105.056 | 114.885 |            | 9.36  | 30    |
| Methyl Methacrylate       | 0.260   | 0.299   |            | 15    | 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\VL112124\  
 Data File : VL041711.D  
 Acq On : 21 Nov 2024 8:50  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Nov 22 01:01:27 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Nov 22 01:00:55 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/22/2024  
 Supervised By : Mahesh Dadoda 11/22/2024

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.221  | 49   | 1173714  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.684  | 114  | 3217567  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.497 | 117  | 2996508m | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 68) 1-Bromo-4-Fluorobenzene | 13.806 | 95    | 2257188  | 10.223   | ppbv       | 0.00 |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | = 102.200% |      |

|                               |       |     |         |        |        |     |
|-------------------------------|-------|-----|---------|--------|--------|-----|
| Target Compounds              |       |     |         | Qvalue |        |     |
| 2) Dichlorodifluoromethane    | 2.758 | 85  | 1422464 | 6.705  | ppbv   | 99  |
| 3) Chlorodifluoromethane      | 2.703 | 51  | 1408647 | 9.211  | ppbv   | 99  |
| 4) Chloromethane              | 2.841 | 50  | 772568  | 9.537  | ppbv   | 100 |
| 5) Vinyl Chloride             | 2.948 | 62  | 738827  | 10.139 | ppbv   | 99  |
| 6) Bromomethane               | 3.147 | 94  | 378603  | 9.794  | ppbv   | 97  |
| 7) Chloroethane               | 3.227 | 64  | 268516  | 10.097 | ppbv   | 99  |
| 8) Dichlorotetrafluoroethane  | 2.883 | 85  | 1753531 | 9.260  | ppbv   | 98  |
| 9) Propene                    | 2.722 | 41  | 628191  | 9.427  | ppbv   | 98  |
| 10) Heptane                   | 7.610 | 43  | 1564942 | 10.481 | ppbv   | 99  |
| 11) Trichlorofluoromethane    | 3.591 | 101 | 1745375 | 9.446  | ppbv   | 99  |
| 12) 1,1,2-Trichlorotrifluo... | 4.095 | 101 | 1298147 | 9.665  | ppbv   | 99  |
| 13) Ethanol                   | 3.275 | 45  | 35822m  | 8.780  | ppbv   |     |
| 14) Bromoethene               | 3.394 | 108 | 526015  | 9.742  | ppbv   | 97  |
| 15) Acetone                   | 3.497 | 43  | 1333944 | 9.235  | ppbv   | 98  |
| 16) 1,3-Butadiene             | 3.012 | 39  | 739980  | 10.153 | ppbv   | 100 |
| 17) tert-Butyl alcohol        | 3.906 | 59  | 1267990 | 10.003 | ppbv   | 99  |
| 18) 1,1-Dichloroethene        | 3.909 | 96  | 571205  | 9.697  | ppbv   | 94  |
| 19) Isopropyl Alcohol         | 3.603 | 45  | 682305  | 9.882  | ppbv   | 99  |
| 20) Methylene Chloride        | 3.960 | 84  | 481797  | 9.064  | ppbv   | 95  |
| 21) Allyl Chloride            | 4.025 | 41  | 904964  | 10.138 | ppbv   | 99  |
| 22) trans-1,2-Dichloroethene  | 4.475 | 96  | 587155  | 10.025 | ppbv   | 97  |
| 23) Vinyl Acetate             | 4.655 | 43  | 629204  | 9.881  | ppbv   | 99  |
| 24) 1,1-Dichloroethane        | 4.594 | 63  | 1253068 | 9.585  | ppbv   | 99  |
| 25) Ethyl Acetate             | 5.234 | 43  | 2952376 | 9.874  | ppbv   | 100 |
| 26) Hexane                    | 5.243 | 57  | 1169502 | 10.181 | ppbv   | 98  |
| 27) Carbon Disulfide          | 4.153 | 76  | 1403031 | 10.871 | ppbv   | 99  |
| 28) Methyl tert-Butyl Ether   | 4.616 | 73  | 715210  | 9.668  | ppbv   | 100 |
| 29) Chloroform                | 5.308 | 83  | 1799780 | 9.492  | ppbv   | 100 |
| 30) Cyclohexane               | 6.632 | 84  | 990103  | 10.122 | ppbv   | 99  |
| 31) cis-1,2-Dichloroethene    | 5.108 | 61  | 1127435 | 10.202 | ppbv   | 99  |
| 32) 1,1,1-Trichloroethane     | 6.034 | 97  | 1761688 | 10.184 | ppbv   | 99  |
| 34) 2-Butanone                | 4.816 | 43  | 1449252 | 9.046  | ppbv   | 99  |
| 35) Carbon Tetrachloride      | 6.526 | 117 | 1827244 | 10.764 | ppbv   | 97  |
| 36) Benzene                   | 6.401 | 78  | 2463354 | 10.333 | ppbv   | 99  |
| 37) 1,2-Dichloroethane        | 5.838 | 62  | 1361156 | 10.120 | ppbv   | 99  |
| 38) Trichloroethene           | 7.327 | 130 | 1001170 | 10.934 | ppbv   | 99  |
| 39) 1,2-Dichloropropane       | 7.108 | 63  | 946394  | 10.045 | ppbv   | 98  |
| 40) 1,4-Dioxane               | 7.317 | 88  | 369652  | 10.936 | ppbv # | 1   |
| 41) Tetrahydrofuran           | 5.587 | 42  | 1011478 | 11.055 | ppbv   | 100 |
| 42) Bromodichloromethane      | 7.282 | 83  | 1950791 | 10.438 | ppbv   | 100 |
| 43) Methyl Methacrylate       | 7.507 | 69  | 960580  | 11.476 | ppbv   | 99  |
| 44) 2,2,4-Trimethylpentane    | 7.356 | 57  | 4139526 | 10.251 | ppbv   | 100 |
| 45) t-1,3-Dichloropropene     | 8.741 | 75  | 943007  | 12.329 | ppbv   | 99  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112124\  
 Data File : VL041711.D  
 Acq On : 21 Nov 2024 8:50  
 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 11/22/2024  
 Supervised By : Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 01:01:27 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

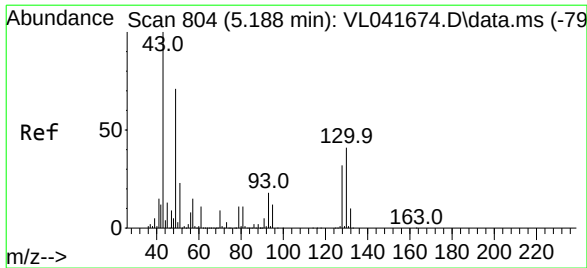
QLast Update : Fri Nov 22 01:00:55 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.172  | 75   | 1279587  | 11.647 | ppbv  | 98       |
| 47) 1,1,2-Trichloroethane     | 8.931  | 97   | 1009245  | 9.898  | ppbv  | 98       |
| 48) Dibromochloromethane      | 9.741  | 129  | 1661895  | 10.722 | ppbv  | 100      |
| 49) Bromoform                 | 12.439 | 173  | 1469304  | 11.079 | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.211  | 43   | 2653020  | 10.787 | ppbv  | 100      |
| 51) 2-Hexanone                | 9.581  | 43   | 2052626  | 11.460 | ppbv  | 99       |
| 52) Tetrachloroethene         | 10.648 | 164  | 903960   | 11.127 | ppbv  | 99       |
| 53) Toluene                   | 9.253  | 91   | 2837342  | 11.317 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.040 | 107  | 1367674  | 11.480 | ppbv  | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.539 | 131  | 1253171  | 10.140 | ppbv  | 98       |
| 57) Chlorobenzene             | 11.558 | 112  | 2202336  | 9.937  | ppbv  | 98       |
| 58) Ethyl Benzene             | 12.121 | 91   | 3808048  | 11.592 | ppbv  | 99       |
| 59) m/p-Xylene                | 12.404 | 91   | 6459706m | 21.958 | ppbv  |          |
| 60) o-Xylene                  | 13.089 | 91   | 3108102  | 11.080 | ppbv  | 99       |
| 61) Styrene                   | 12.928 | 104  | 1498189  | 12.940 | ppbv  | 100      |
| 62) Isopropylbenzene          | 14.060 | 105  | 4585032  | 10.583 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.079 | 83   | 2155854  | 10.448 | ppbv  | 100      |
| 64) n-propylbenzene           | 14.944 | 120  | 1243110  | 10.961 | ppbv  | 99       |
| 65) tert-Butylbenzene         | 16.117 | 119  | 4092301  | 10.510 | ppbv  | 100      |
| 66) Benzyl Chloride           | 16.359 | 91   | 360391   | 12.031 | ppbv  | 99       |
| 67) sec-Butylbenzene          | 16.667 | 105  | 5768247  | 10.510 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.027 | 119  | 4812497  | 10.847 | ppbv  | 100      |
| 70) n-Butylbenzene            | 17.918 | 91   | 4962014  | 10.930 | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 14.831 | 91   | 3484566  | 11.127 | ppbv  | 99       |
| 72) 4-Ethyltoluene            | 15.224 | 105  | 3736233  | 11.456 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.381 | 105  | 3182515  | 11.120 | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.140 | 105  | 3517746  | 10.582 | ppbv  | 95       |
| 75) 1,3-Dichlorobenzene       | 16.362 | 146  | 2166163  | 10.522 | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 16.506 | 146  | 2095111  | 10.547 | ppbv  | 100      |
| 77) 1,2-Dichlorobenzene       | 17.175 | 146  | 2109445  | 10.343 | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 22.664 | 225  | 1455287m | 9.022  | ppbv  |          |
| 79) Naphthalene               | 21.419 | 128  | 2952462  | 14.389 | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 24.400 | 142  | 630748   | 14.101 | ppbv  | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.175 | 180  | 1501117  | 11.633 | ppbv  | 99       |

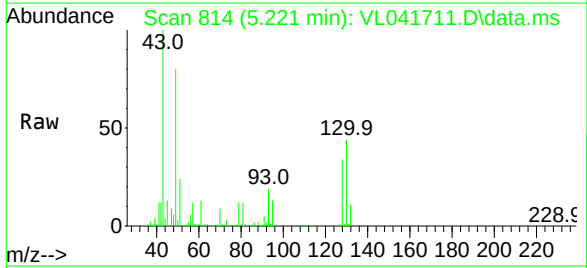
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.221 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

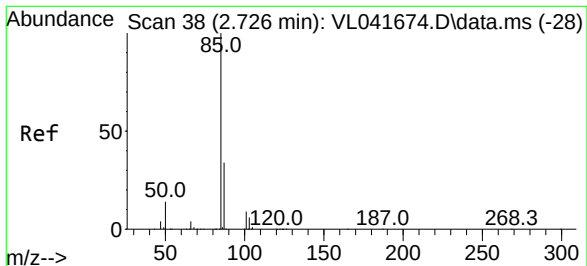
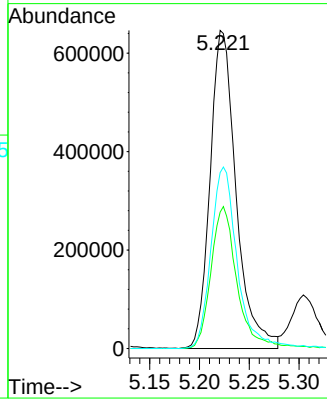
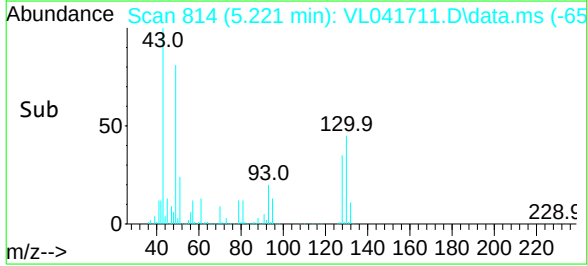
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 49 Resp: 1173714  
Ion Ratio Lower Upper  
49 100  
128 44.9 23.8 71.2  
130 58.5 30.1 90.5

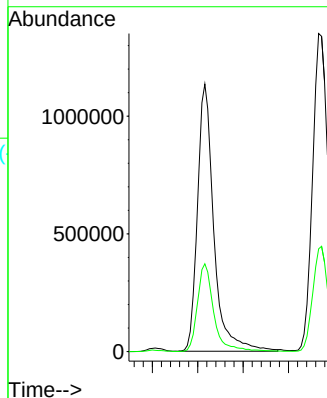
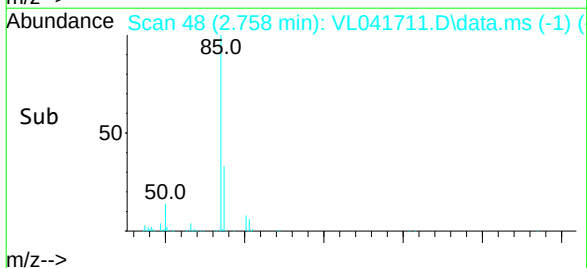
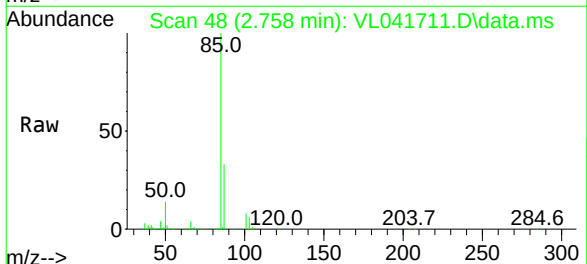
Manual Integrations  
APPROVED

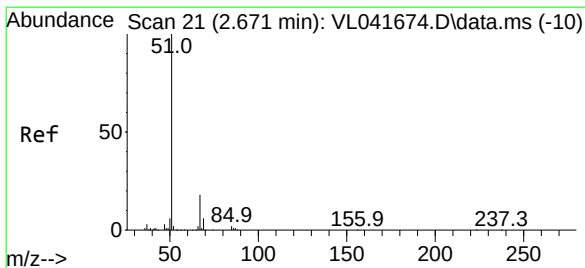
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#2  
Dichlorodifluoromethane  
Concen: 6.705 ppbv  
RT: 2.758 min Scan# 48  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 85 Resp: 1422464  
Ion Ratio Lower Upper  
85 100  
87 32.8 26.8 40.2





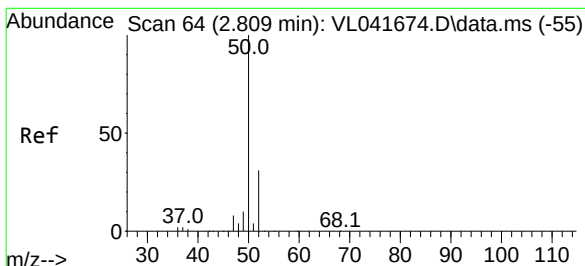
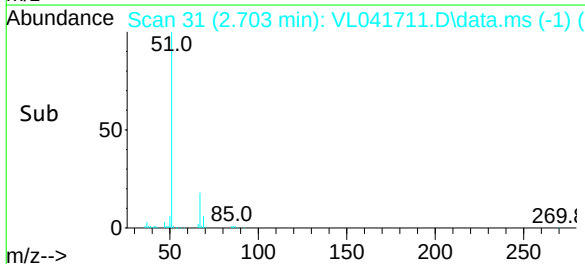
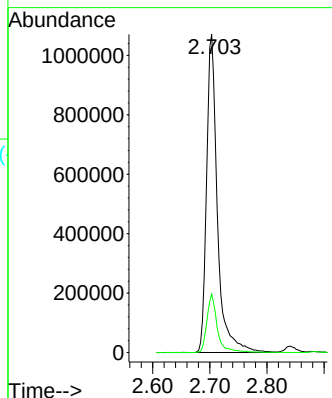
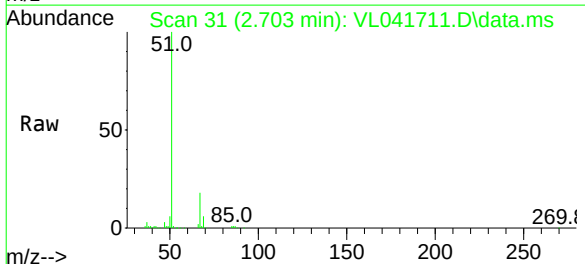
#3  
Chlorodifluoromethane  
Concen: 9.211 ppbv  
RT: 2.703 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 51 Resp: 1408647  
Ion Ratio Lower Upper  
51 100  
67 17.7 13.9 20.9

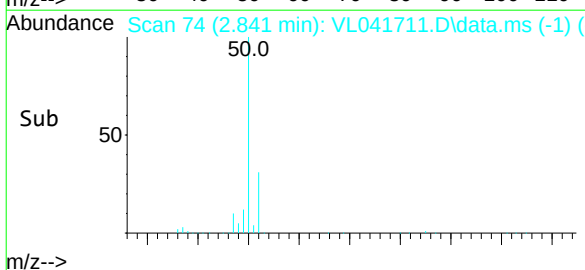
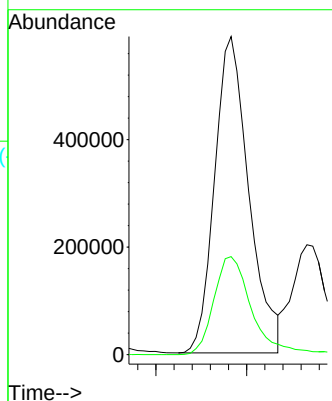
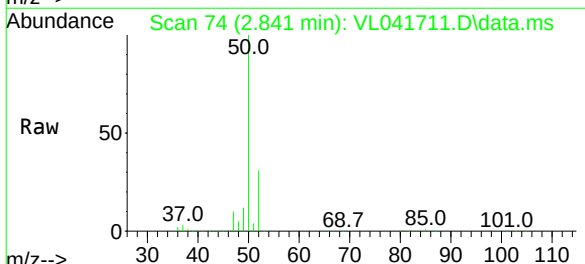
Manual Integrations  
APPROVED

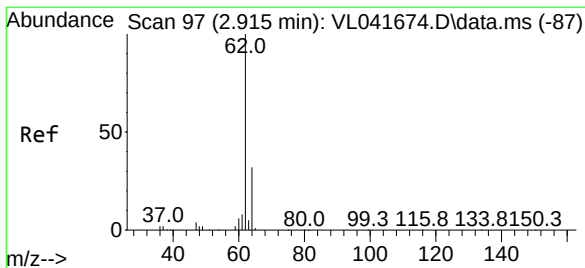
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#4  
Chloromethane  
Concen: 9.537 ppbv  
RT: 2.841 min Scan# 74  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 50 Resp: 772568  
Ion Ratio Lower Upper  
50 100  
52 31.0 24.9 37.3





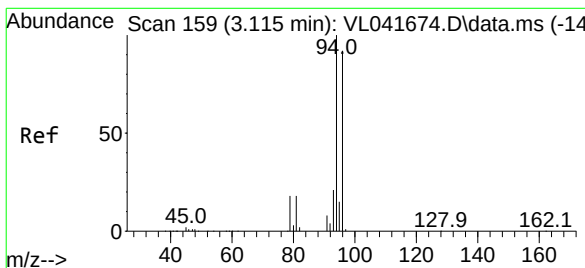
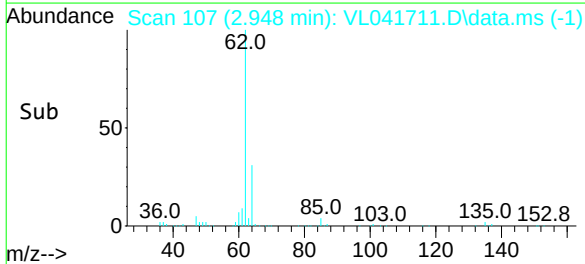
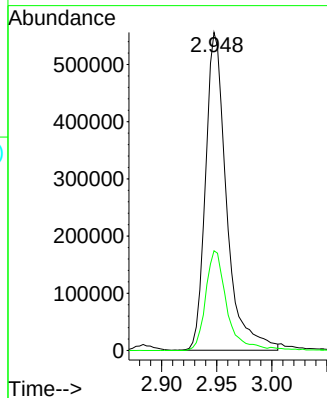
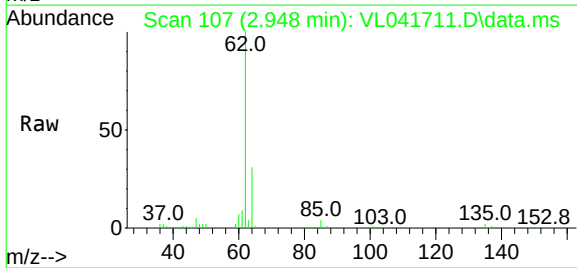
#5  
Vinyl Chloride  
Concen: 10.139 ppbv  
RT: 2.948 min Scan# 10  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 62 Resp: 738827  
Ion Ratio Lower Upper  
62 100  
64 31.4 25.4 38.2

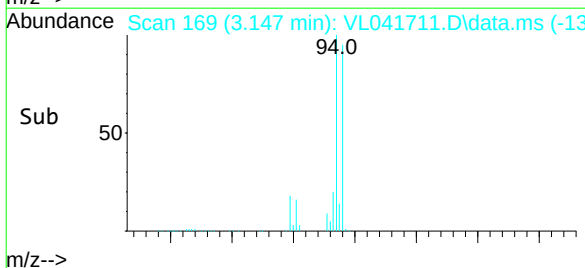
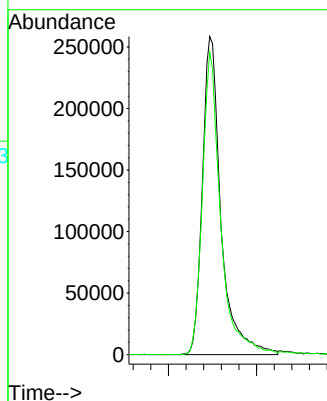
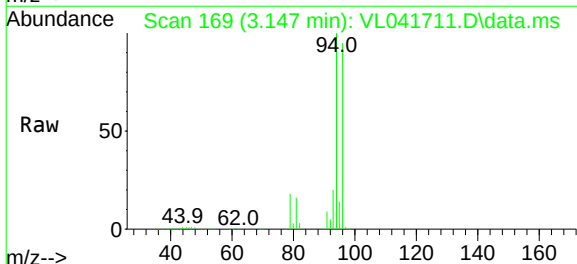
Manual Integrations  
APPROVED

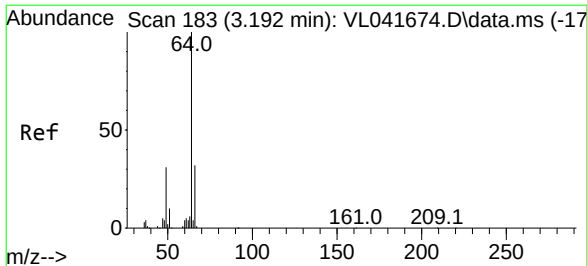
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#6  
Bromomethane  
Concen: 9.794 ppbv  
RT: 3.147 min Scan# 169  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 94 Resp: 378603  
Ion Ratio Lower Upper  
94 100  
96 94.9 73.4 110.2





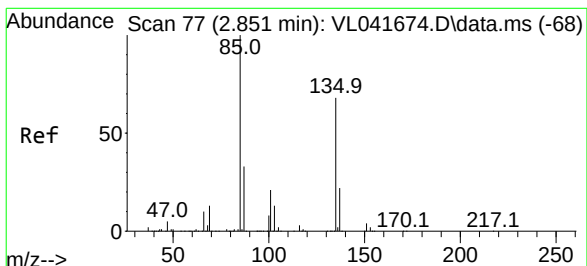
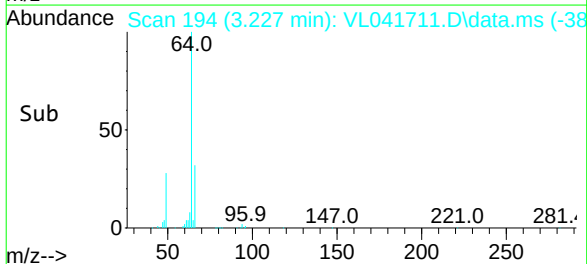
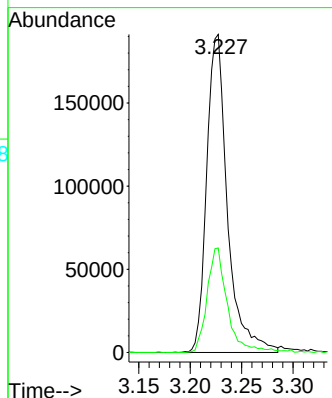
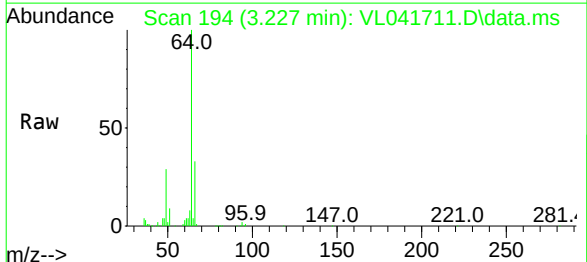
#7  
Chloroethane  
Concen: 10.097 ppbv  
RT: 3.227 min Scan# 19  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 64 Resp: 268516  
Ion Ratio Lower Upper  
64 100  
66 32.9 25.9 38.9

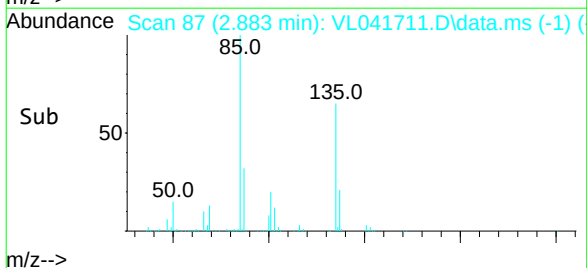
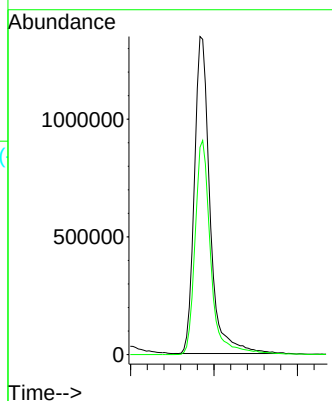
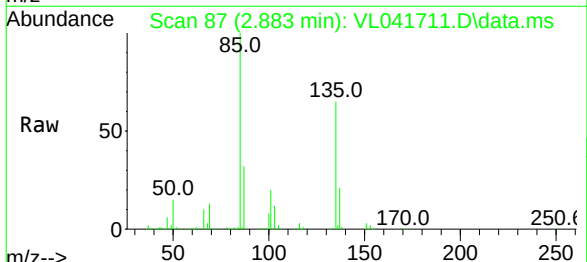
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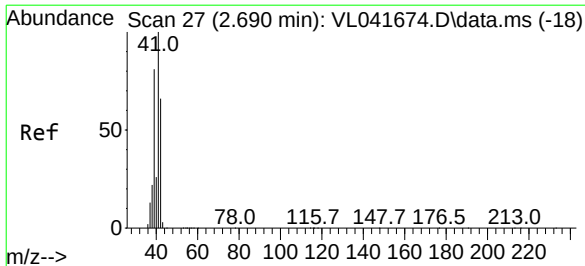
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#8  
Dichlorotetrafluoroethane  
Concen: 9.260 ppbv  
RT: 2.883 min Scan# 87  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 85 Resp: 1753531  
Ion Ratio Lower Upper  
85 100  
135 68.0 55.5 83.3





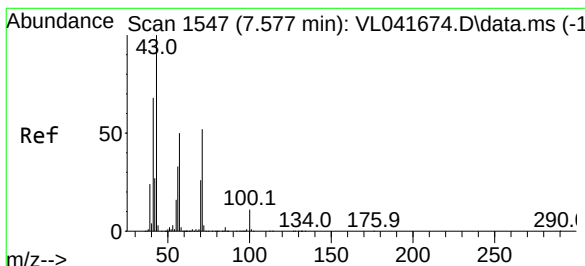
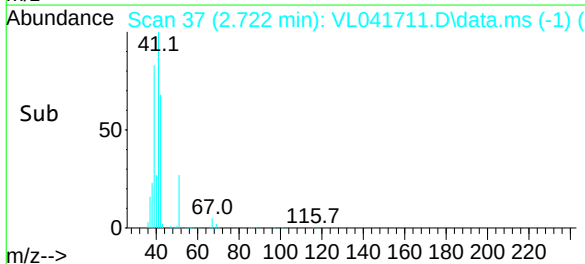
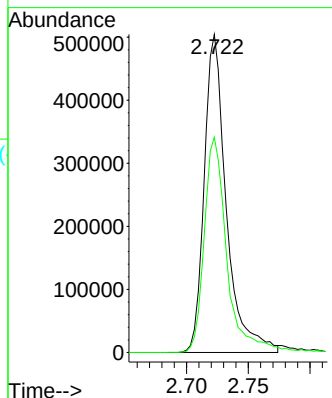
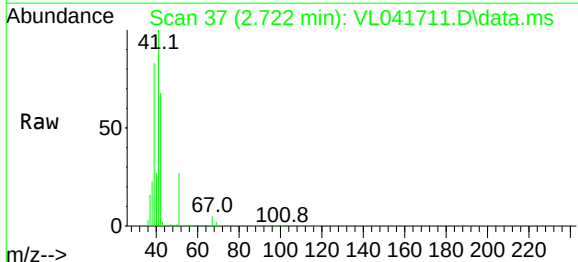
#9  
 Propene  
 Concen: 9.427 ppbv  
 RT: 2.722 min Scan# 37  
 Delta R.T. 0.000 min  
 Lab File: VL041711.D  
 Acq: 21 Nov 2024 8:50

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 41 Resp: 628191  
 Ion Ratio Lower Upper  
 41 100  
 42 70.1 55.0 82.4

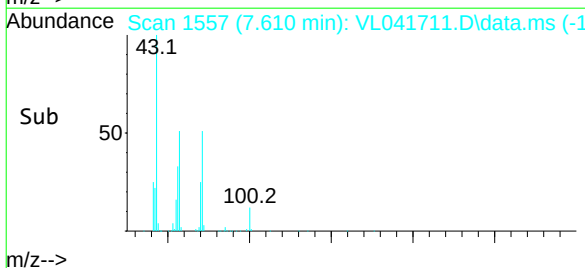
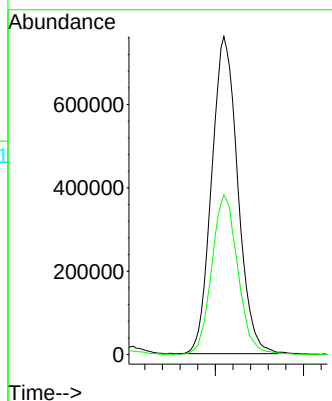
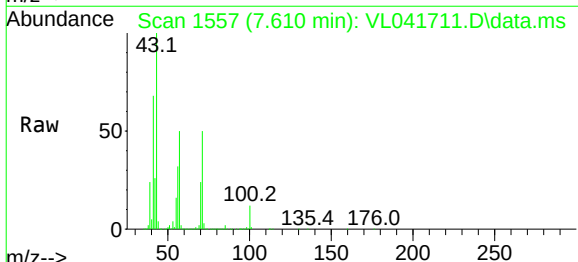
Manual Integrations  
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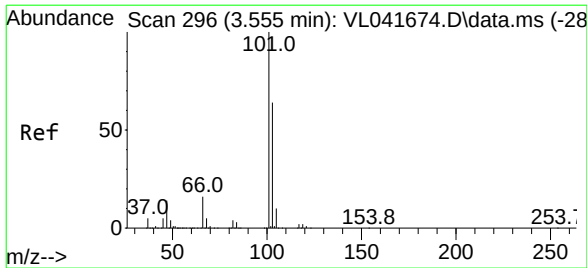
Reviewed By :Semsettin Yesilyurt 11/22/2024  
 Supervised By :Mahesh Dadoda 11/22/2024



#10  
 Heptane  
 Concen: 10.481 ppbv  
 RT: 7.610 min Scan# 1557  
 Delta R.T. 0.000 min  
 Lab File: VL041711.D  
 Acq: 21 Nov 2024 8:50

Tgt Ion: 43 Resp: 1564942  
 Ion Ratio Lower Upper  
 43 100  
 57 50.5 40.0 60.0





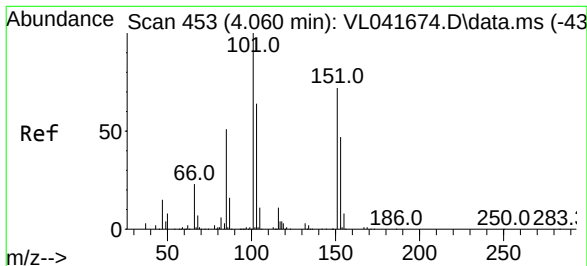
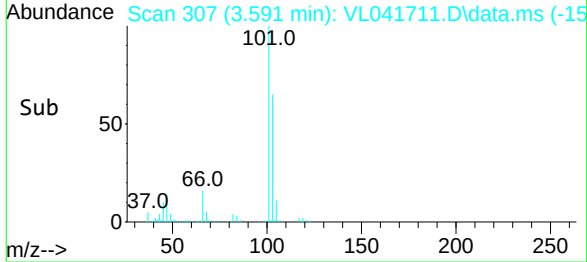
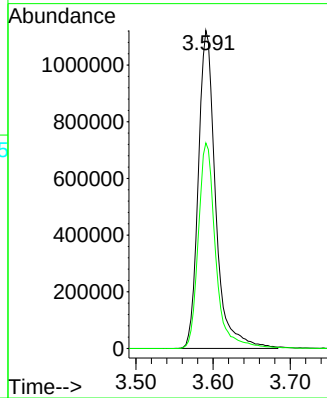
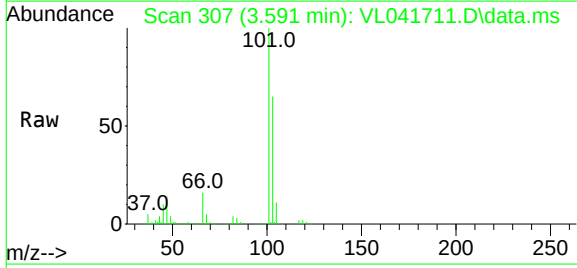
#11  
Trichlorofluoromethane  
Concen: 9.446 ppbv  
RT: 3.591 min Scan# 307  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:101 Resp: 1745375  
Ion Ratio Lower Upper  
101 100  
103 64.6 51.0 76.6

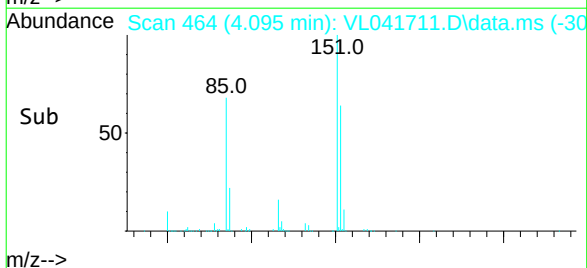
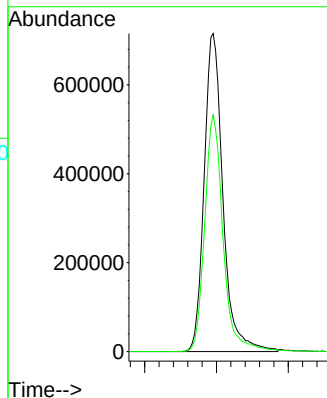
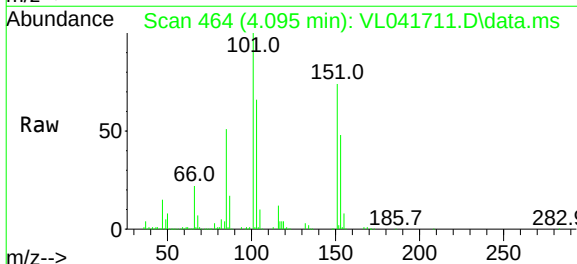
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Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

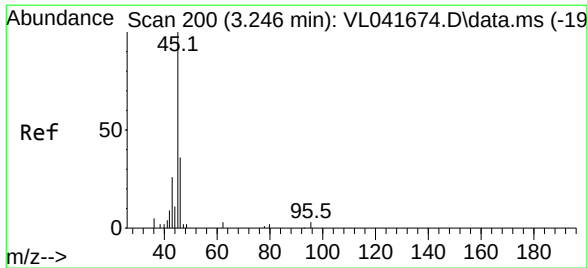


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.665 ppbv  
RT: 4.095 min Scan# 464  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion:101 Resp: 1298147  
Ion Ratio Lower Upper  
101 100  
151 73.1 59.1 88.7







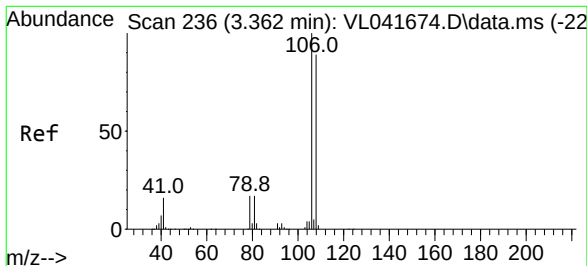
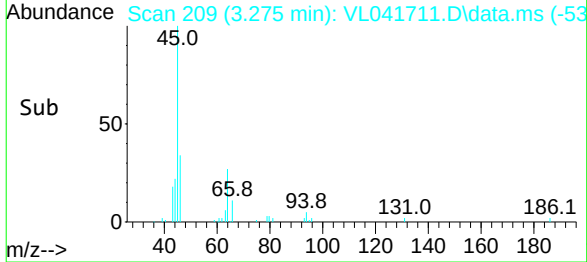
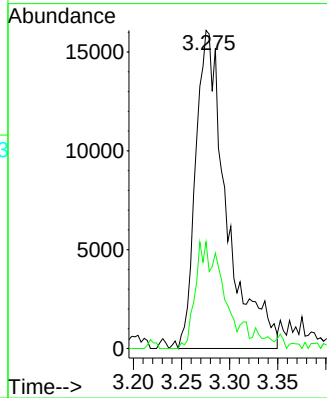
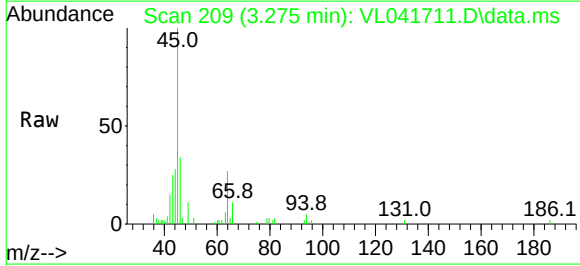
#13  
Ethanol  
Concen: 8.780 ppbv m  
RT: 3.275 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 45 Resp: 35822  
Ion Ratio Lower Upper  
45 100  
46 34.9 13.8 55.2

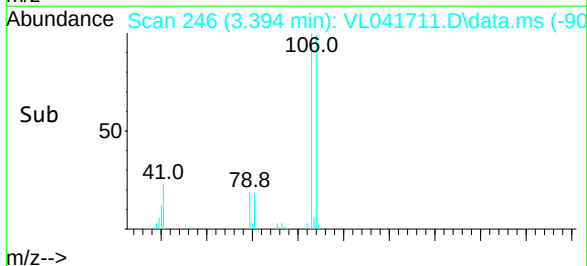
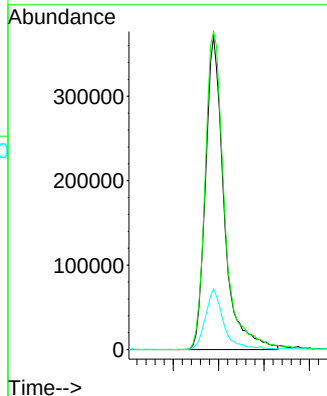
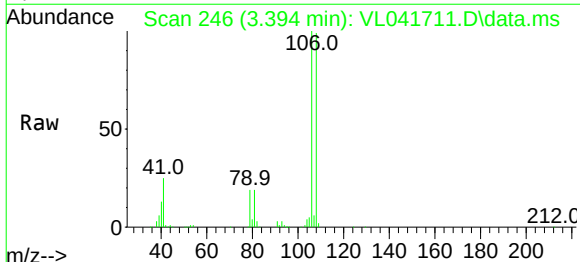
Manual Integrations  
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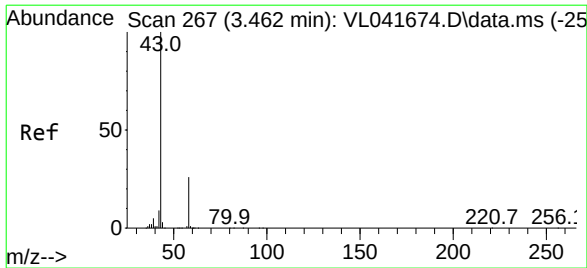
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#14  
Bromoethene  
Concen: 9.742 ppbv  
RT: 3.394 min Scan# 246  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion:108 Resp: 526015  
Ion Ratio Lower Upper  
108 100  
106 107.1 88.6 133.0  
79 19.3 15.6 23.4





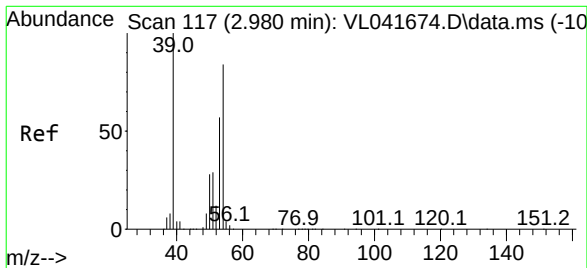
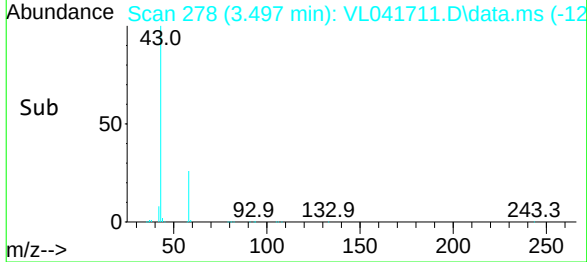
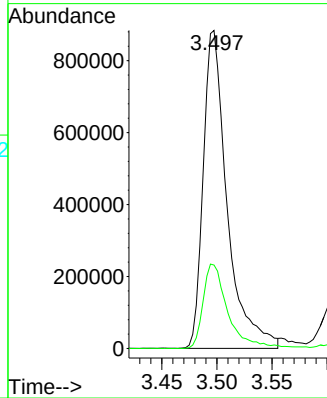
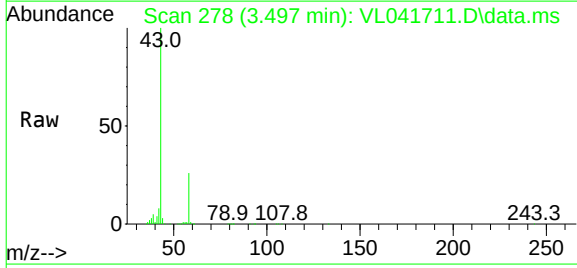
#15  
Acetone  
Concen: 9.235 ppbv  
RT: 3.497 min Scan# 27  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 1333944  
Ion Ratio Lower Upper  
43 100  
58 27.8 21.4 32.0

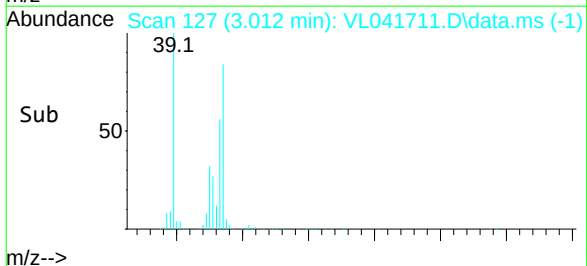
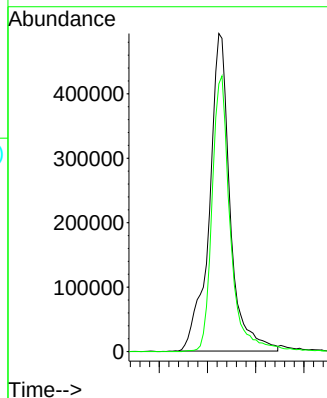
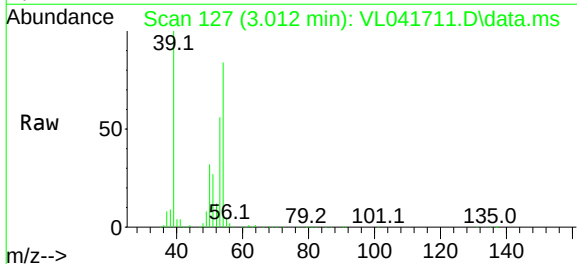
Manual Integrations  
APPROVED

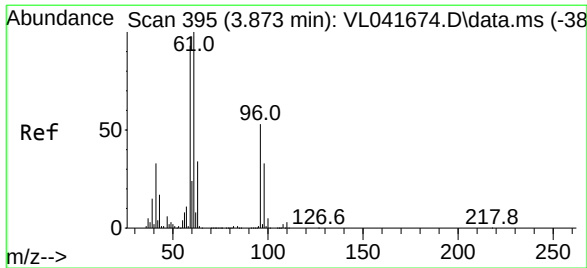
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#16  
1,3-Butadiene  
Concen: 10.153 ppbv  
RT: 3.012 min Scan# 127  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 39 Resp: 739980  
Ion Ratio Lower Upper  
39 100  
54 76.9 61.3 91.9





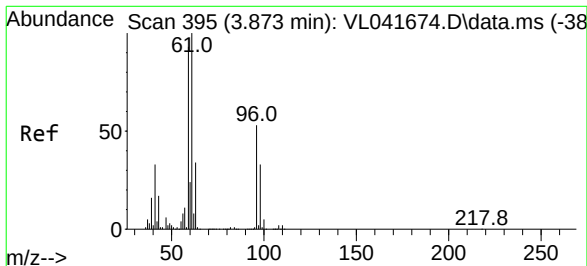
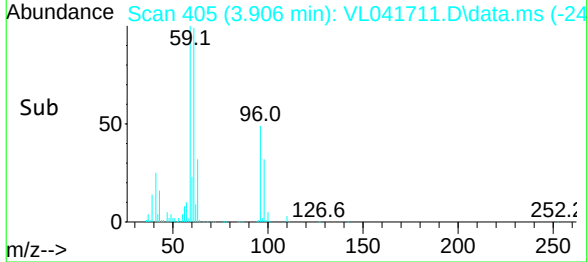
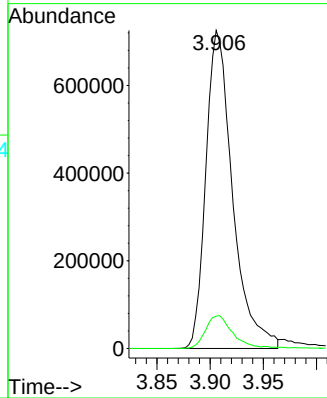
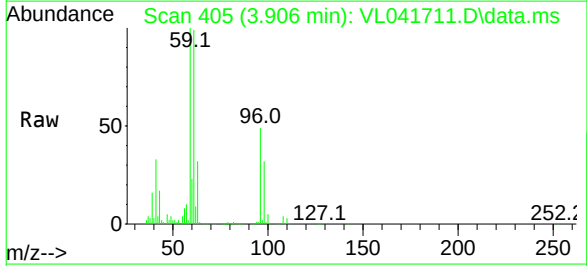
#17  
tert-Butyl alcohol  
Concen: 10.003 ppbv  
RT: 3.906 min Scan# 405  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 59 Resp: 1267996  
Ion Ratio Lower Upper  
59 100  
57 10.8 8.5 12.7

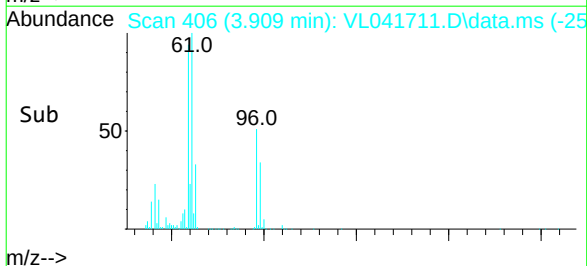
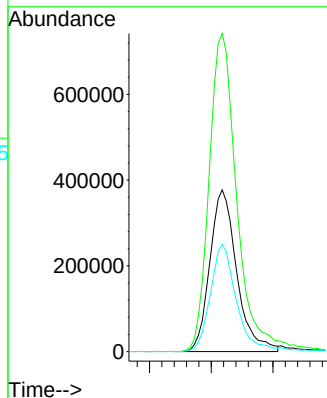
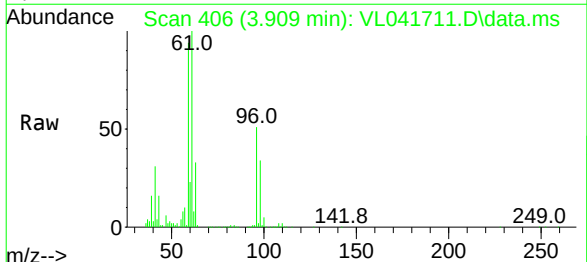
Manual Integrations  
APPROVED

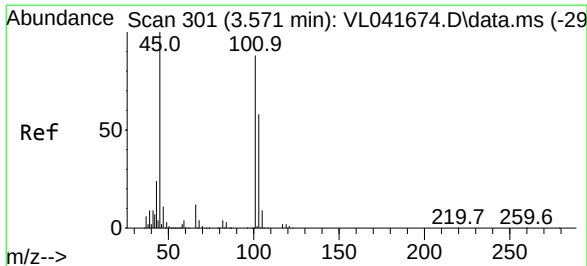
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#18  
1,1-Dichloroethene  
Concen: 9.697 ppbv  
RT: 3.909 min Scan# 406  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 96 Resp: 571205  
Ion Ratio Lower Upper  
96 100  
61 196.7 150.7 226.1  
98 66.3 49.4 74.2





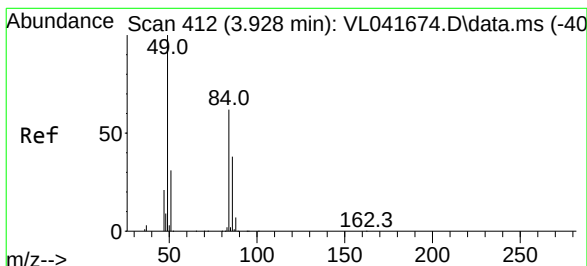
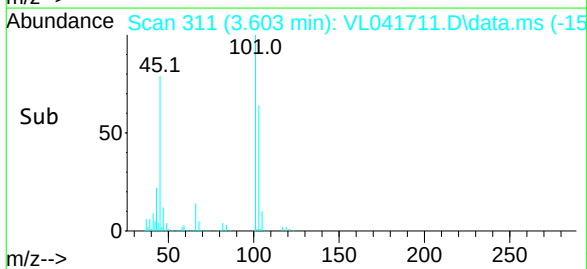
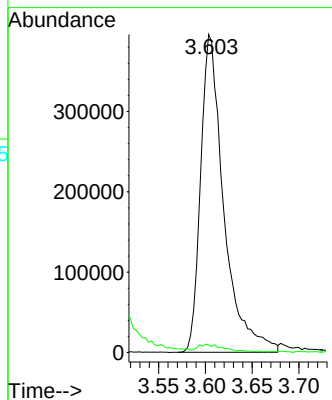
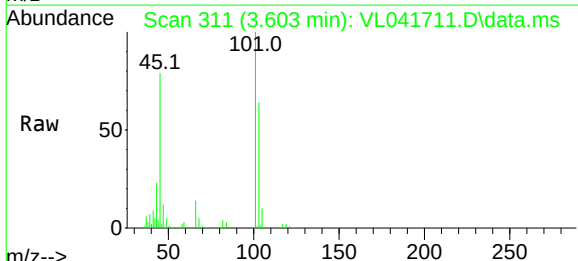
#19  
Isopropyl Alcohol  
Concen: 9.882 ppbv  
RT: 3.603 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 45 Resp: 682305  
Ion Ratio Lower Upper  
45 100  
58 2.7 2.5 3.7

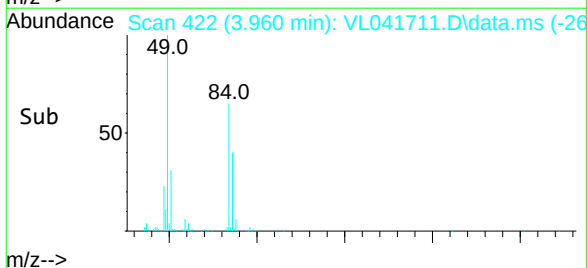
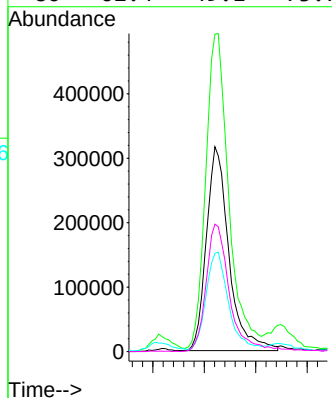
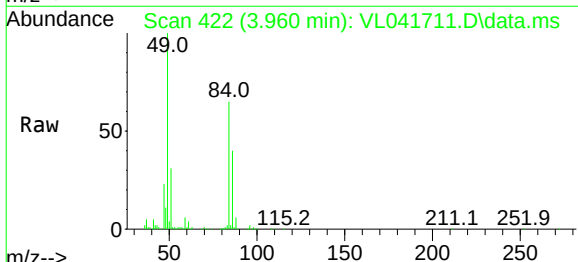
Manual Integrations  
APPROVED

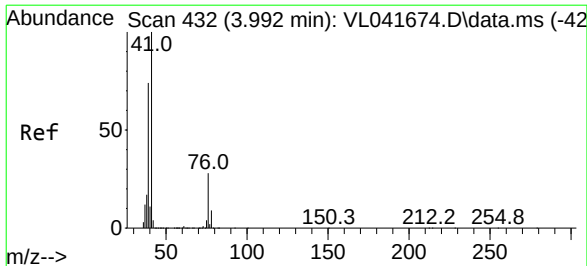
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#20  
Methylene Chloride  
Concen: 9.064 ppbv  
RT: 3.960 min Scan# 422  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 84 Resp: 481797  
Ion Ratio Lower Upper  
84 100  
49 153.1 129.7 194.5  
51 46.7 39.8 59.6  
86 62.4 49.1 73.7





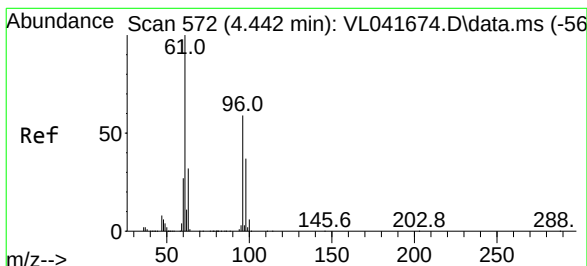
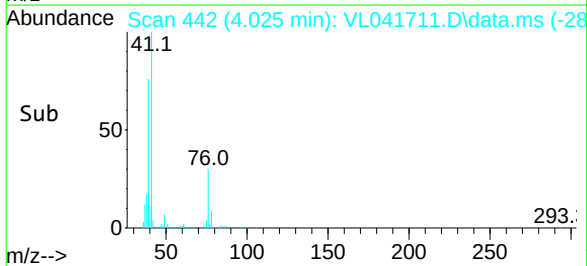
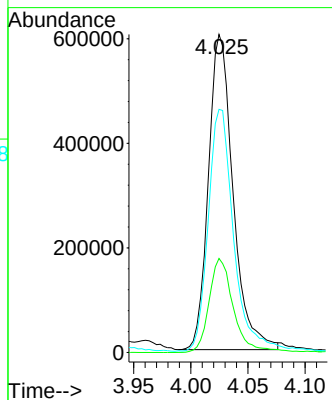
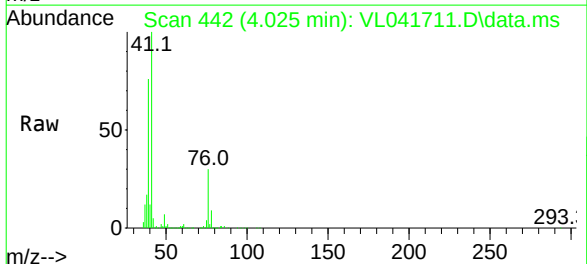
#21  
 Allyl Chloride  
 Concen: 10.138 ppbv  
 RT: 4.025 min Scan# 44  
 Delta R.T. 0.000 min  
 Lab File: VL041711.D  
 Acq: 21 Nov 2024 8:50

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 41 Resp: 904964  
 Ion Ratio Lower Upper  
 41 100  
 76 29.8 23.5 35.3  
 39 80.0 63.0 94.4

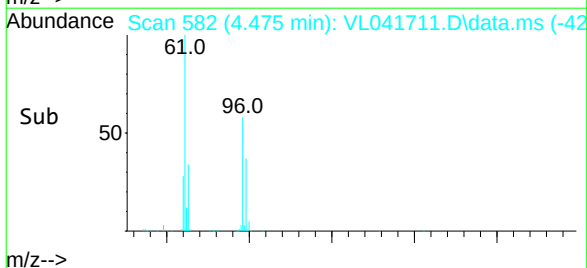
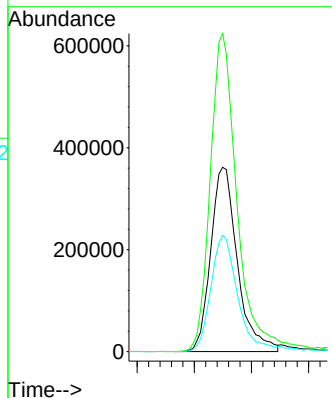
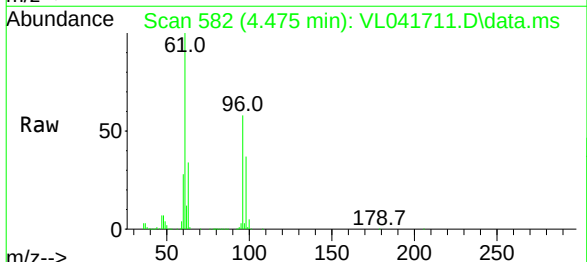
Manual Integrations  
 APPROVED

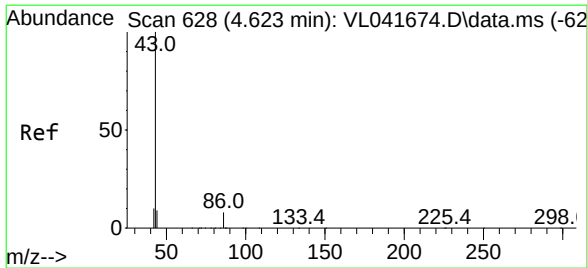
Reviewed By :Semsettin Yesilyurt 11/22/2024  
 Supervised By :Mahesh Dadoda 11/22/2024



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.025 ppbv  
 RT: 4.475 min Scan# 582  
 Delta R.T. 0.000 min  
 Lab File: VL041711.D  
 Acq: 21 Nov 2024 8:50

Tgt Ion: 96 Resp: 587155  
 Ion Ratio Lower Upper  
 96 100  
 61 172.5 134.5 201.7  
 98 63.1 49.6 74.4





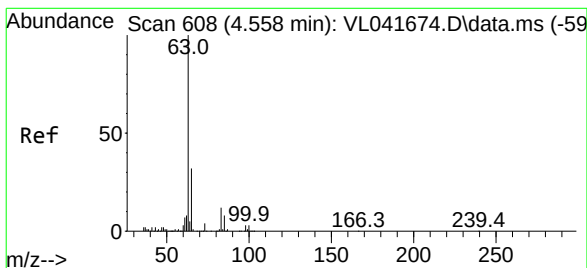
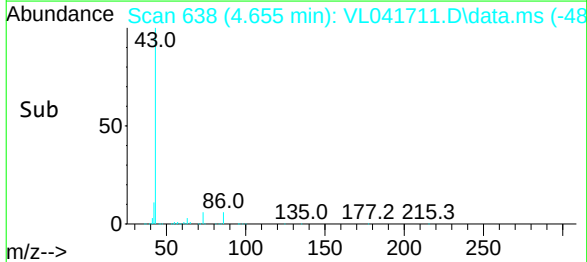
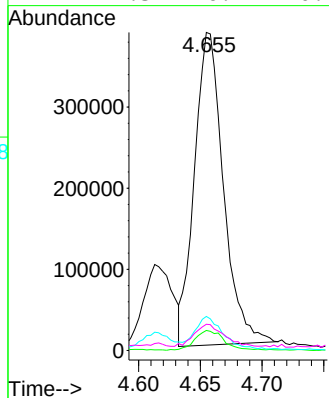
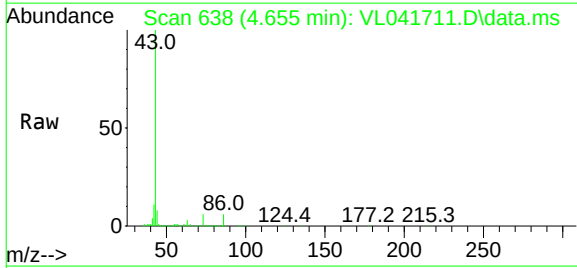
#23  
Vinyl Acetate  
Concen: 9.881 ppbv  
RT: 4.655 min Scan# 63  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 629204 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 6.3   | 5.3   | 7.9    |
| 42       | 10.4  | 8.5   | 12.7   |
| 44       | 7.3   | 6.7   | 10.1   |

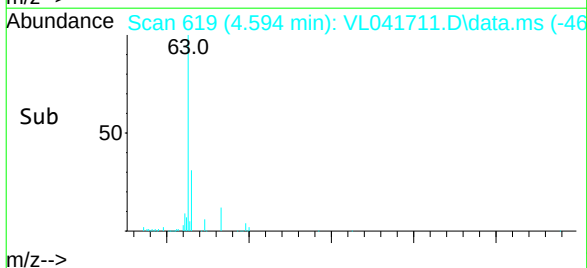
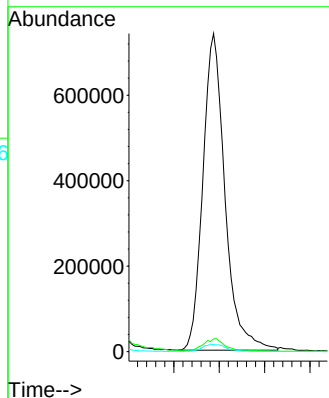
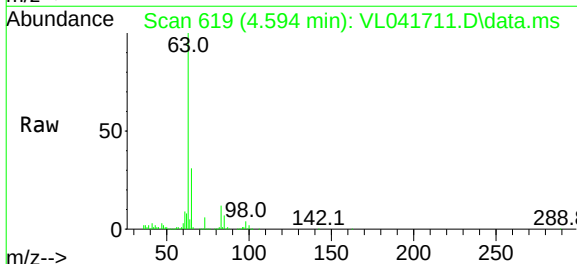
Manual Integrations  
APPROVED

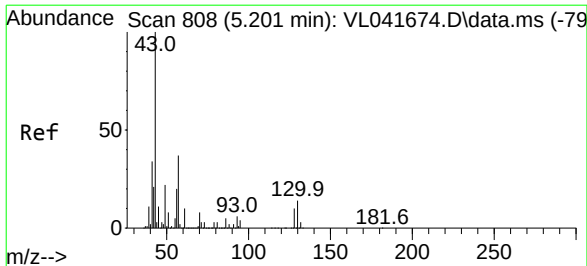
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#24  
1,1-Dichloroethane  
Concen: 9.585 ppbv  
RT: 4.594 min Scan# 619  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

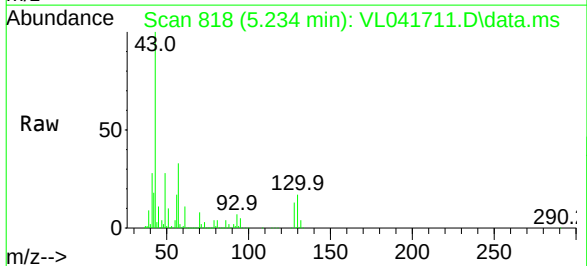
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 63    | Resp: | 1253068 |
| Ion      | Ratio | Lower | Upper   |
| 63       | 100   |       |         |
| 98       | 3.8   | 1.8   | 5.4     |
| 100      | 2.1   | 1.4   | 4.2     |





#25  
Ethyl Acetate  
Concen: 9.874 ppbv  
RT: 5.234 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

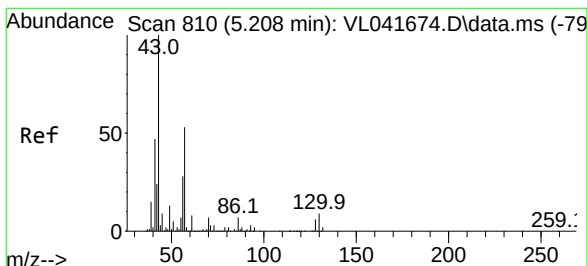
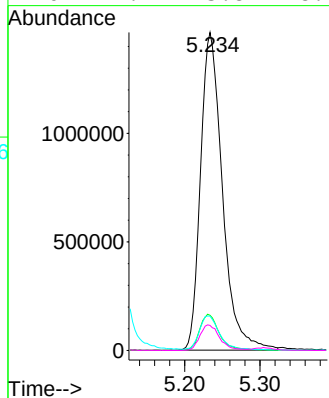
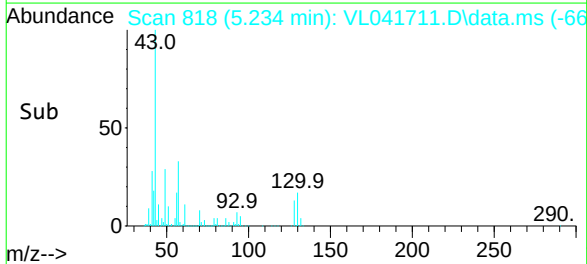
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



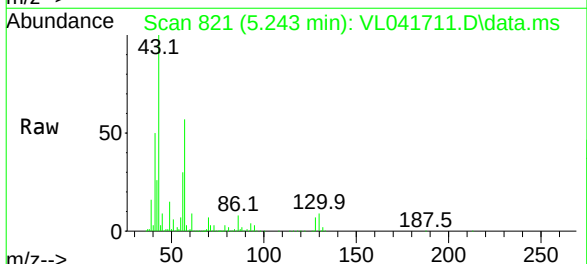
| Tgt Ion: | 43   | Ratio | 100 | Lower | Upper |
|----------|------|-------|-----|-------|-------|
| 43       | 100  |       |     |       |       |
| 45       | 10.6 |       | 8.6 | 13.0  |       |
| 61       | 10.5 |       | 8.4 | 12.6  |       |
| 70       | 7.4  |       | 5.8 | 8.6   |       |

Manual Integrations  
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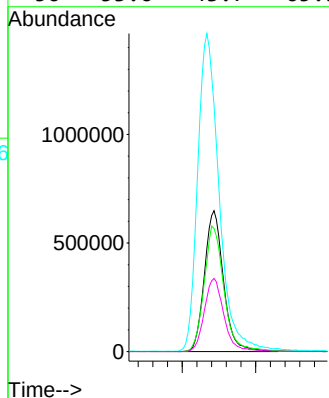
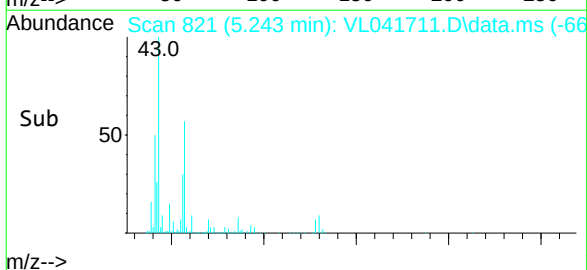
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

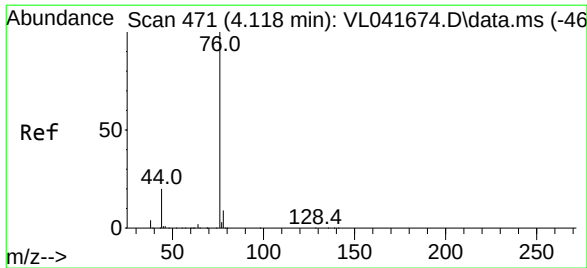


#26  
Hexane  
Concen: 10.181 ppbv  
RT: 5.243 min Scan# 821  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50



| Tgt Ion: | 57    | Ratio | 100   | Lower | Upper |
|----------|-------|-------|-------|-------|-------|
| 57       | 100   |       |       |       |       |
| 41       | 93.0  |       | 76.1  | 114.1 |       |
| 43       | 255.2 |       | 207.0 | 310.6 |       |
| 56       | 53.6  |       | 43.7  | 65.5  |       |





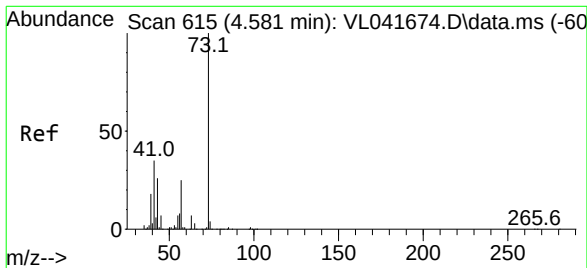
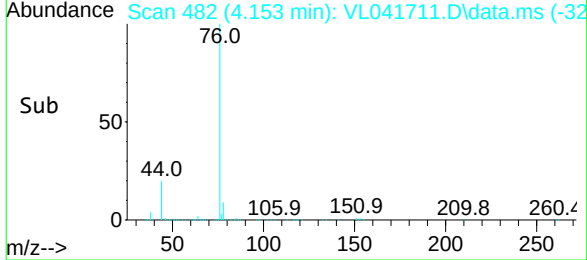
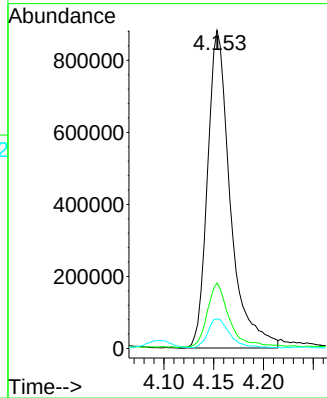
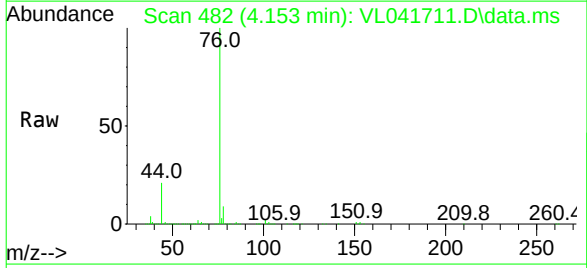
#27  
Carbon Disulfide  
Concen: 10.871 ppbv  
RT: 4.153 min Scan# 48  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 76 Resp: 1403031  
Ion Ratio Lower Upper  
76 100  
44 20.6 15.8 23.8  
78 9.6 7.5 11.3

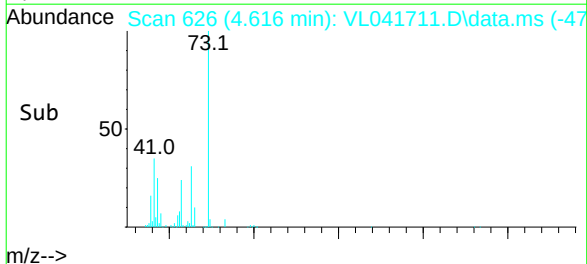
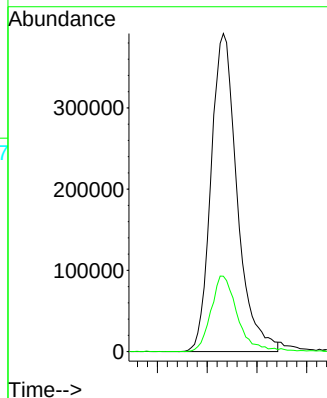
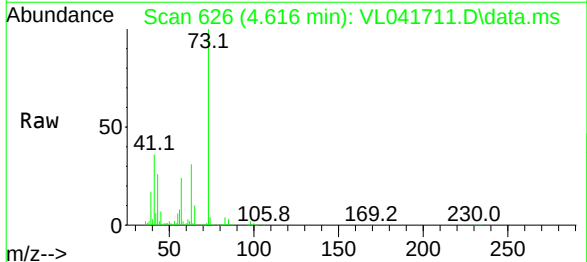
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

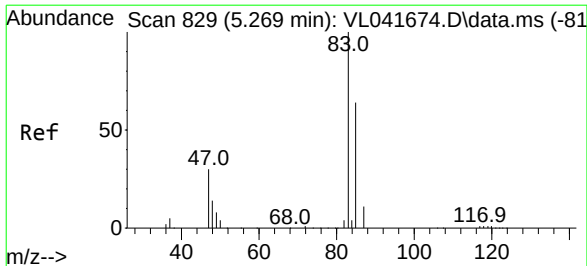


#28  
Methyl tert-Butyl Ether  
Concen: 9.668 ppbv  
RT: 4.616 min Scan# 626  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 73 Resp: 715210  
Ion Ratio Lower Upper  
73 100  
57 24.4 19.6 29.4







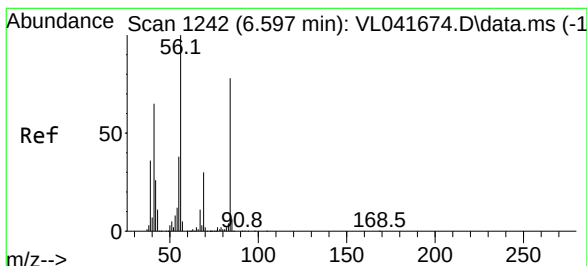
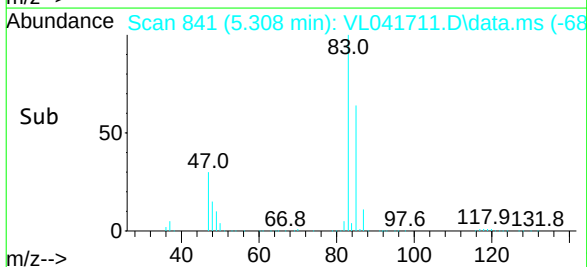
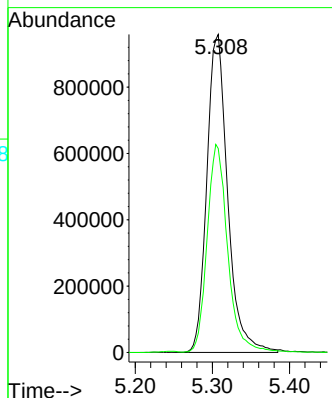
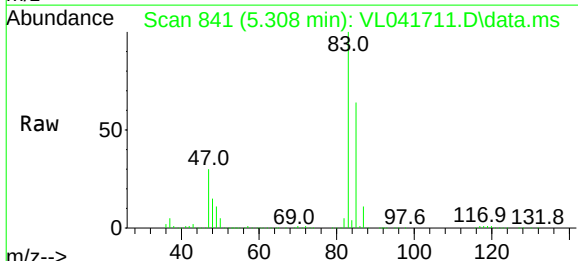
#29  
Chloroform  
Concen: 9.492 ppbv  
RT: 5.308 min Scan# 841  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 83 Resp: 1799780  
Ion Ratio Lower Upper  
83 100  
85 63.9 51.1 76.7

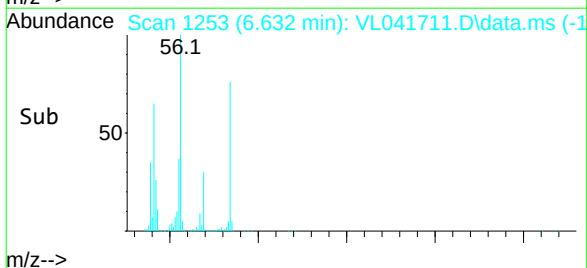
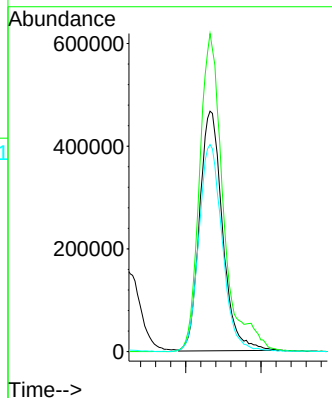
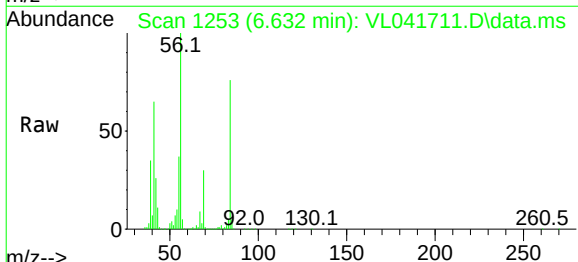
Manual Integrations  
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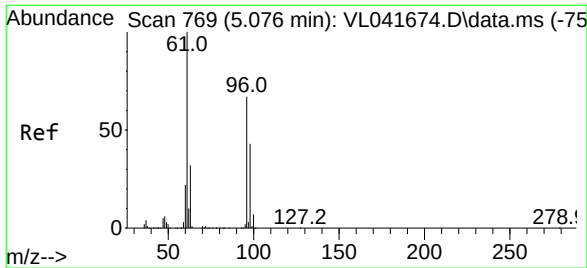
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#30  
Cyclohexane  
Concen: 10.122 ppbv  
RT: 6.632 min Scan# 1253  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

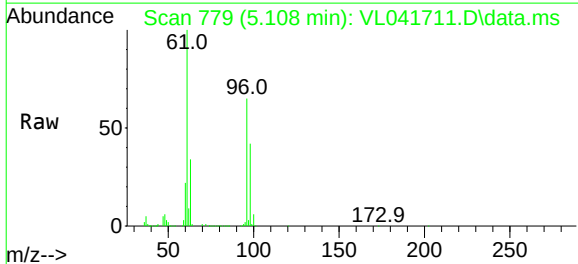
Tgt Ion: 84 Resp: 990103  
Ion Ratio Lower Upper  
84 100  
56 137.5 110.8 166.2  
41 88.2 70.0 105.0





#31  
 cis-1,2-Dichloroethene  
 Concen: 10.202 ppbv  
 RT: 5.108 min Scan# 77  
 Delta R.T. 0.000 min  
 Lab File: VL041711.D  
 Acq: 21 Nov 2024 8:50

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

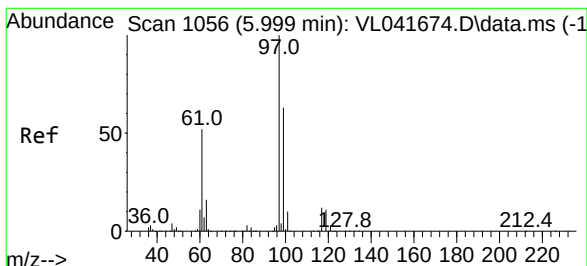
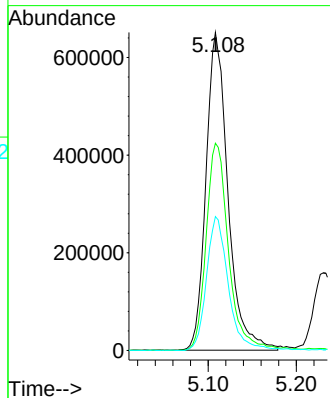
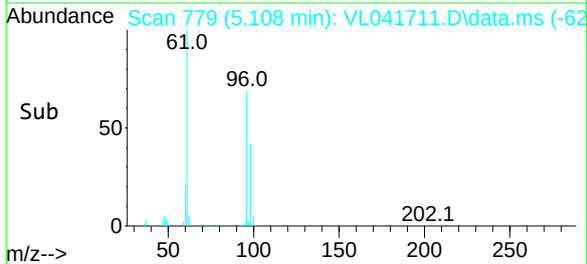


Tgt Ion: 61 Resp: 1127435  

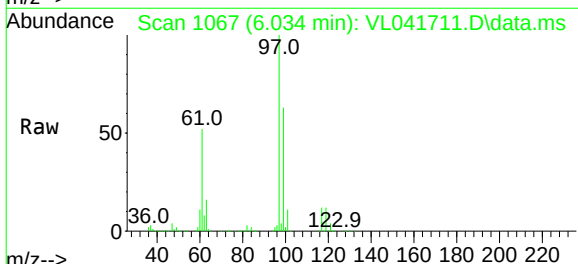
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 61  | 100   |       |       |
| 96  | 65.2  | 53.4  | 80.2  |
| 98  | 42.2  | 34.0  | 51.0  |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/22/2024  
 Supervised By :Mahesh Dadoda 11/22/2024

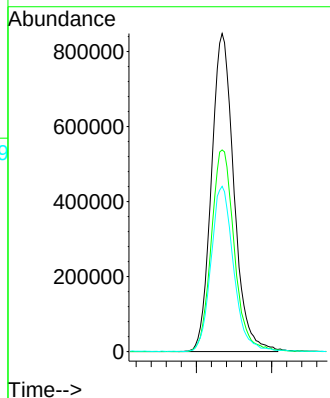
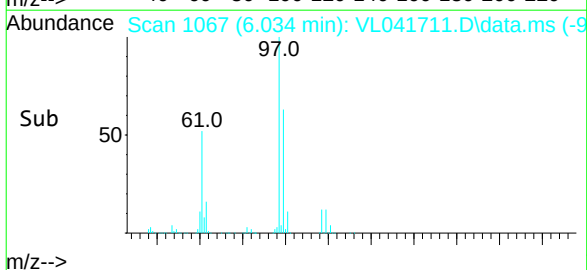


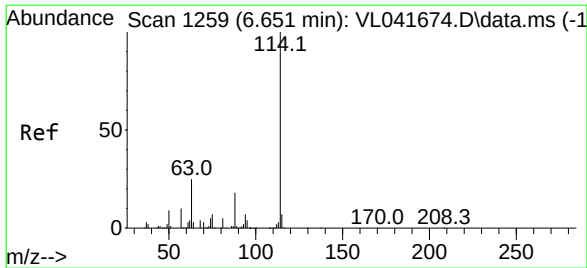
#32  
 1,1,1-Trichloroethane  
 Concen: 10.184 ppbv  
 RT: 6.034 min Scan# 1067  
 Delta R.T. 0.000 min  
 Lab File: VL041711.D  
 Acq: 21 Nov 2024 8:50



Tgt Ion: 97 Resp: 1761688  

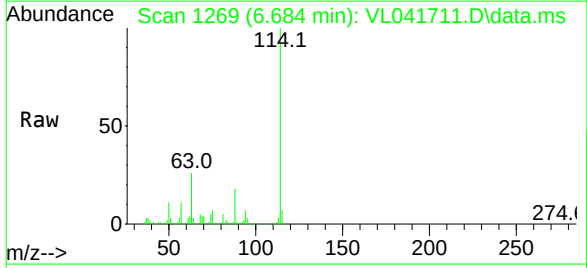
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 64.9  | 51.4  | 77.2  |
| 61  | 52.5  | 41.7  | 62.5  |





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.684 min Scan# 12  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

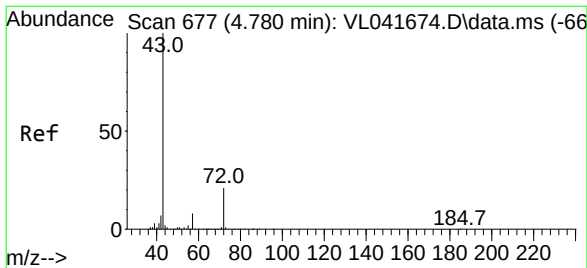
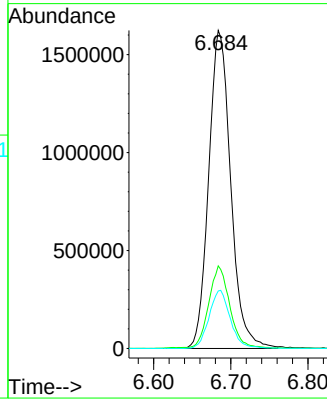
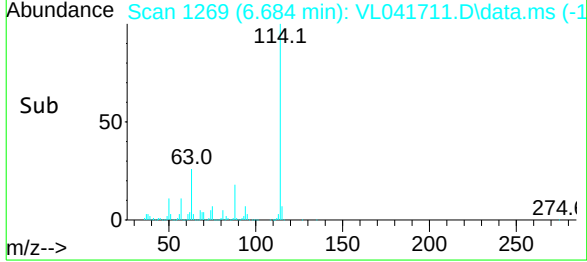
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 114 Resp: 3217567  
Ion Ratio Lower Upper  
114 100  
63 25.0 20.3 30.5  
88 17.8 14.2 21.4

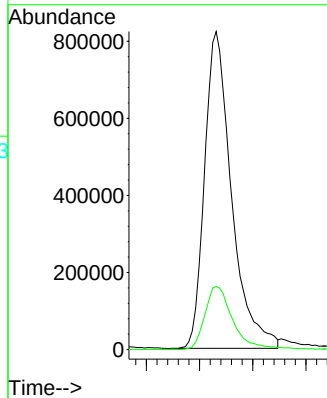
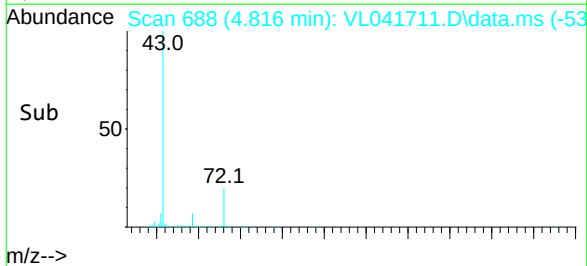
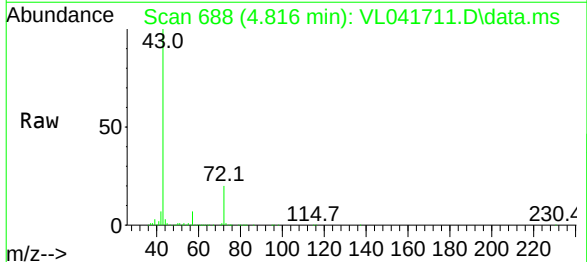
Manual Integrations  
APPROVED

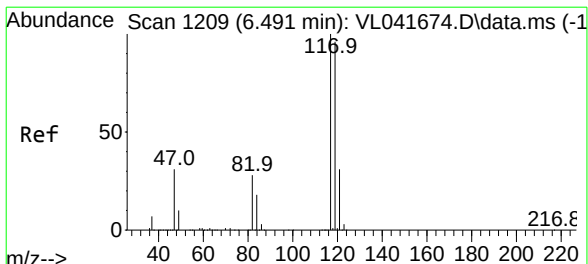
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#34  
2-Butanone  
Concen: 9.046 ppbv  
RT: 4.816 min Scan# 688  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

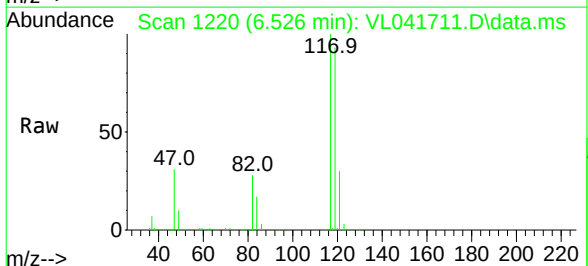
Tgt Ion: 43 Resp: 1449252  
Ion Ratio Lower Upper  
43 100  
72 21.1 17.4 26.0





#35  
Carbon Tetrachloride  
Concen: 10.764 ppbv  
RT: 6.526 min Scan# 1209  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument : MSVOA\_L  
ClientSampleId : VSTDCCC010

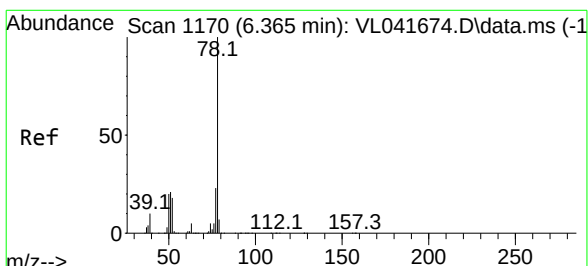
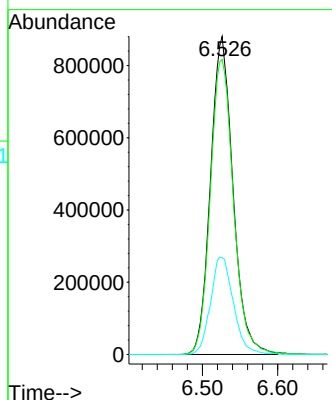
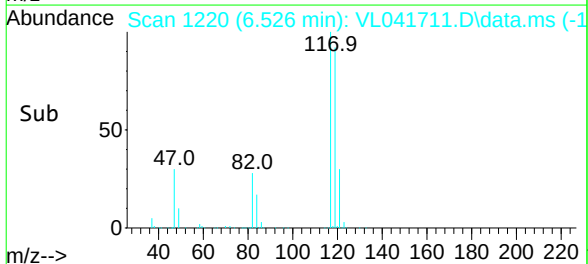


Tgt Ion: 117 Resp: 1827244

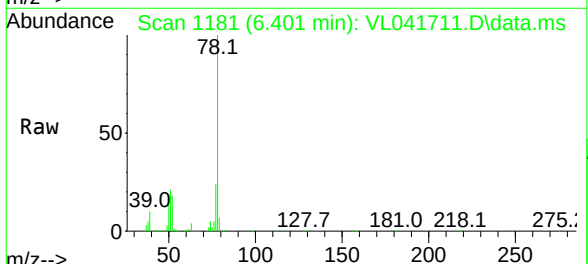
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 92.8  | 77.2  | 115.8 |
| 121 | 30.5  | 25.0  | 37.4  |

Manual Integrations  
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Reviewed By : Semsettin Yesilyurt 11/22/2024  
Supervised By : Mahesh Dadoda 11/22/2024

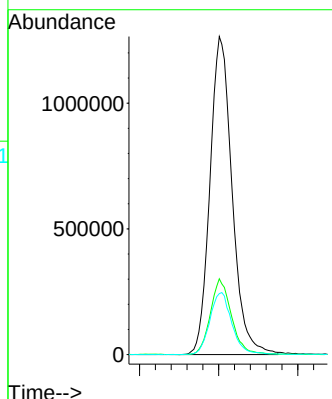
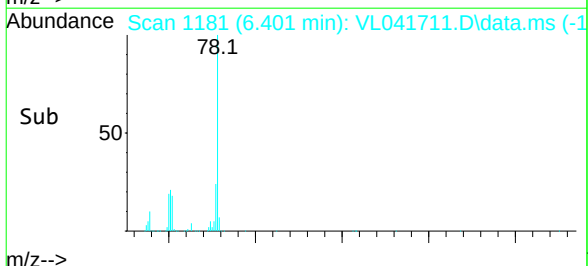


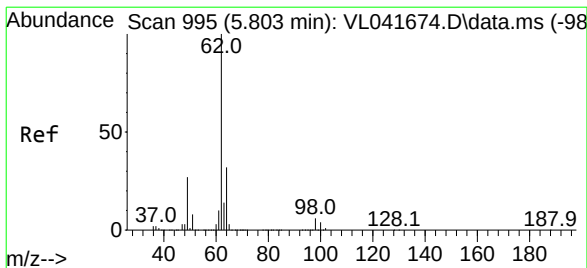
#36  
Benzene  
Concen: 10.333 ppbv  
RT: 6.401 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50



Tgt Ion: 78 Resp: 2463354

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 23.8  | 18.5  | 27.7  |
| 50  | 19.2  | 15.6  | 23.4  |





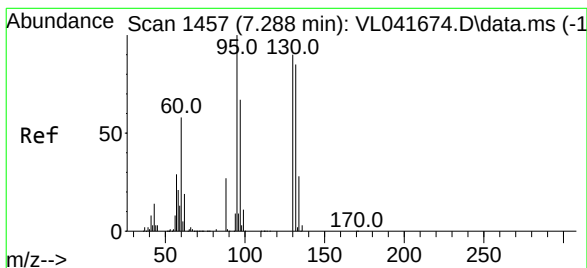
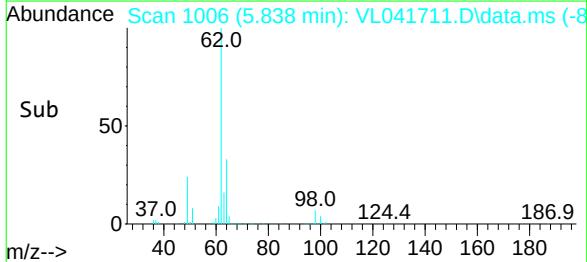
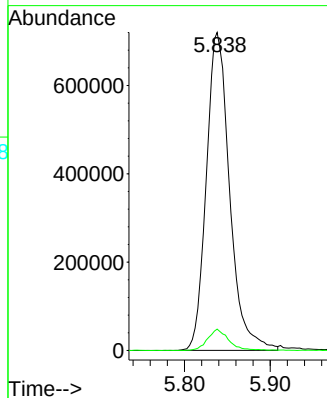
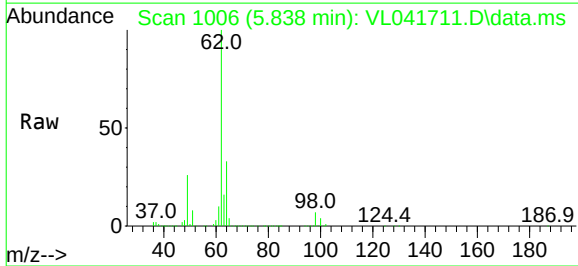
#37  
1,2-Dichloroethane  
Concen: 10.120 ppbv  
RT: 5.838 min Scan# 10  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 62 Resp: 1361156  
Ion Ratio Lower Upper  
62 100  
98 6.3 5.2 7.8

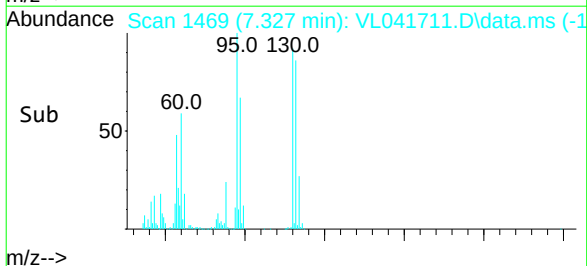
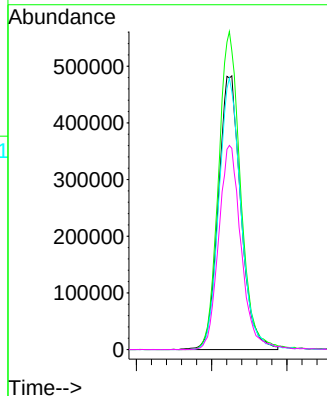
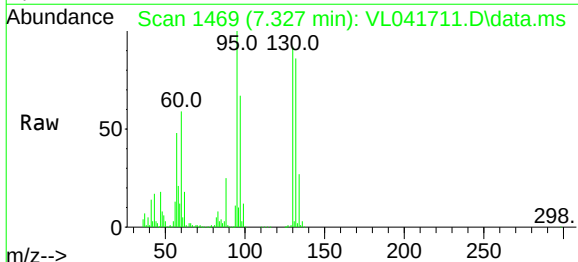
Manual Integrations  
APPROVED

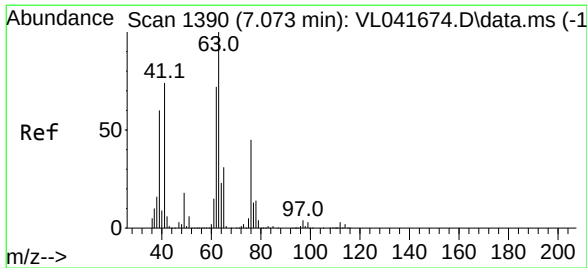
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#38  
Trichloroethene  
Concen: 10.934 ppbv  
RT: 7.327 min Scan# 1469  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

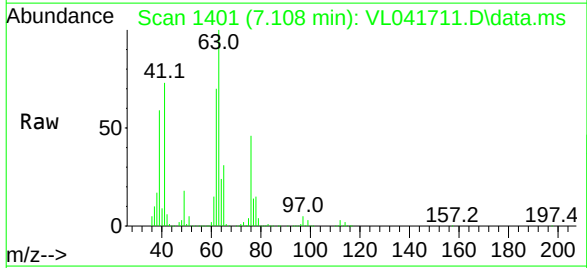
Tgt Ion:130 Resp: 1001170  
Ion Ratio Lower Upper  
130 100  
95 109.2 89.1 133.7  
132 94.2 75.7 113.5  
97 73.5 60.0 90.0





#39  
1,2-Dichloropropane  
Concen: 10.045 ppbv  
RT: 7.108 min Scan# 1401  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

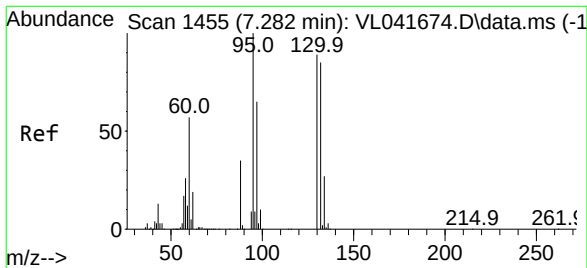
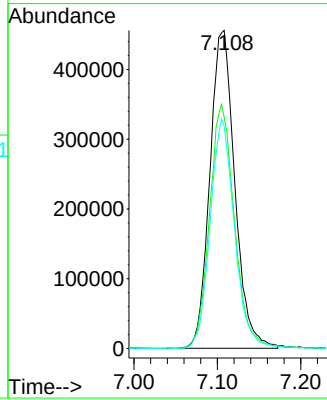
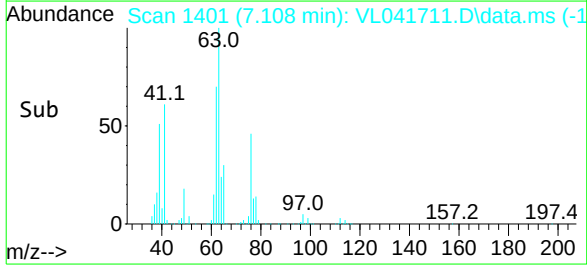
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



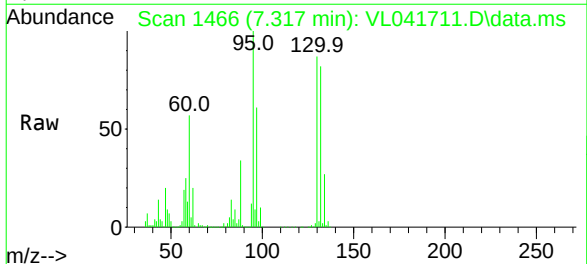
Tgt Ion: 63 Resp: 946394  
Ion Ratio Lower Upper  
63 100  
41 72.8 59.1 88.7  
62 69.9 57.7 86.5

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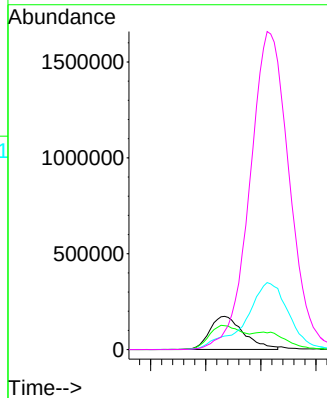
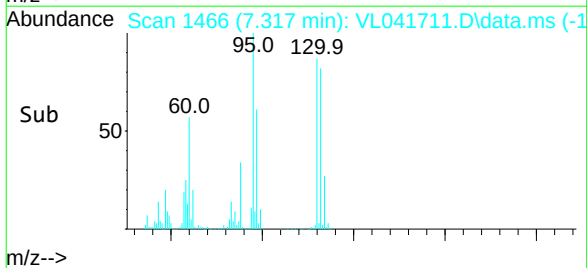
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

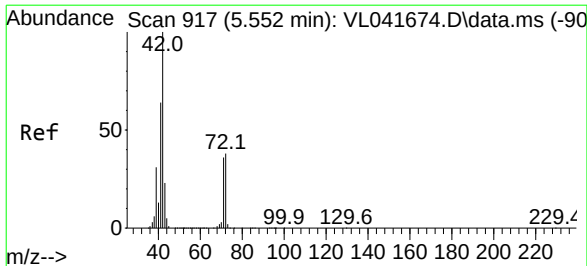


#40  
1,4-Dioxane  
Concen: 10.936 ppbv  
RT: 7.317 min Scan# 1466  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50



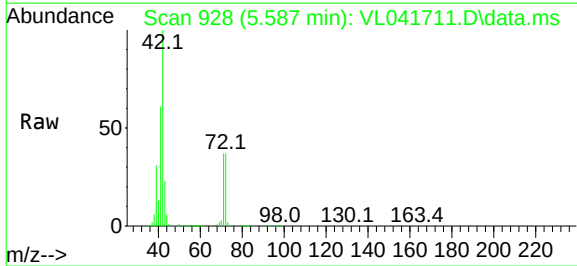
Tgt Ion: 88 Resp: 369652  
Ion Ratio Lower Upper  
88 100  
58 125.9 101.4 152.2  
43 0.0 208.0 312.0#  
57 0.0 902.9 1354.3#





#41  
Tetrahydrofuran  
Concen: 11.055 ppbv  
RT: 5.587 min Scan# 92  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

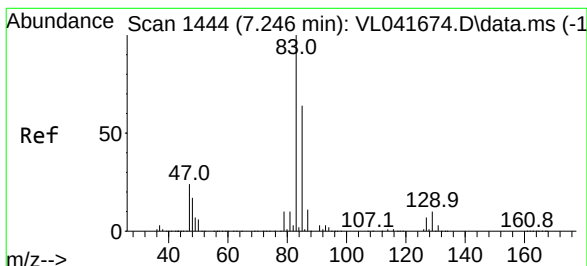
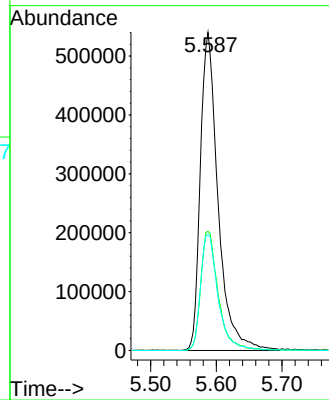
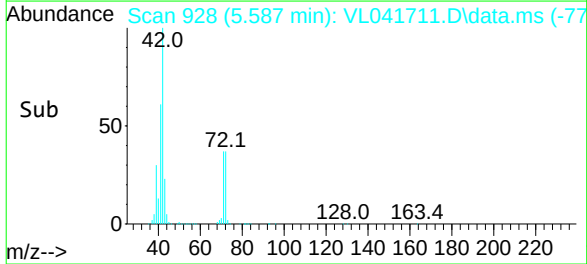
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 42 Resp: 1011478  
Ion Ratio Lower Upper  
42 100  
72 37.2 29.8 44.6  
71 36.4 29.4 44.2

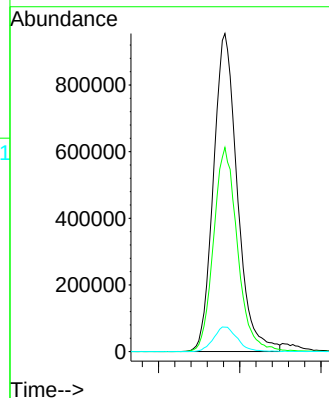
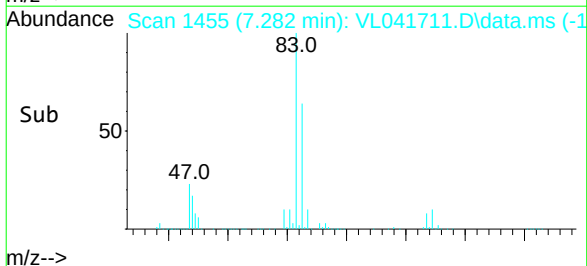
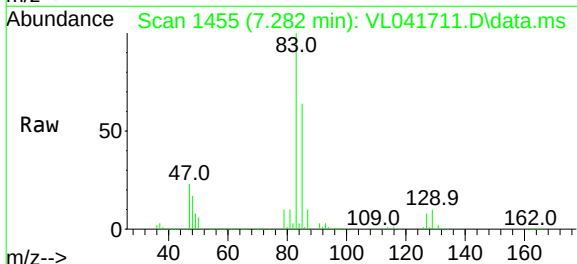
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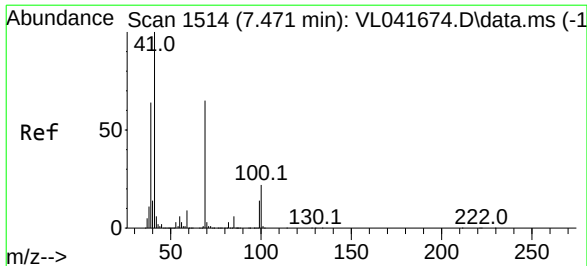
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#42  
Bromodichloromethane  
Concen: 10.438 ppbv  
RT: 7.282 min Scan# 1455  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 83 Resp: 1950791  
Ion Ratio Lower Upper  
83 100  
85 64.2 51.2 76.8  
127 7.7 6.0 9.0





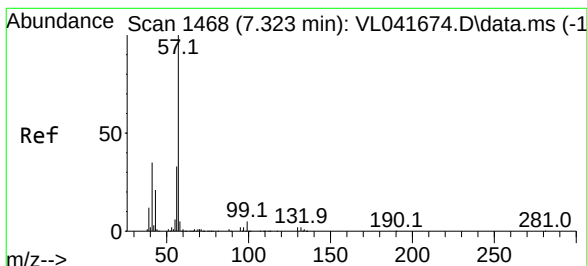
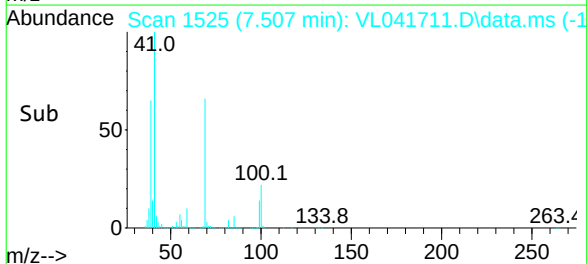
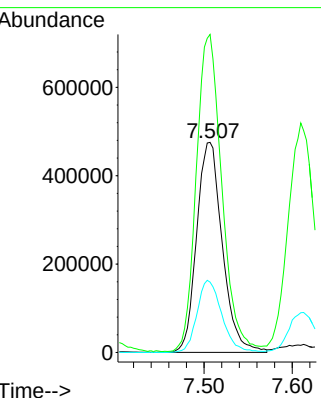
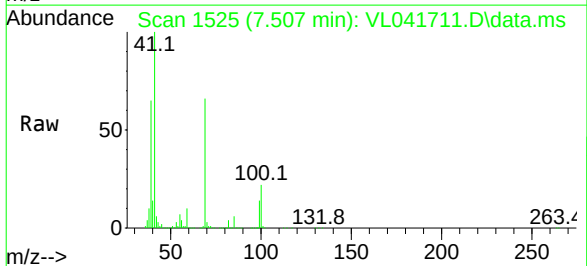
#43  
Methyl Methacrylate  
Concen: 11.476 ppbv  
RT: 7.507 min Scan# 1514  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 69 Resp: 960580  
Ion Ratio Lower Upper  
69 100  
41 150.9 119.8 179.6  
100 33.3 27.3 40.9

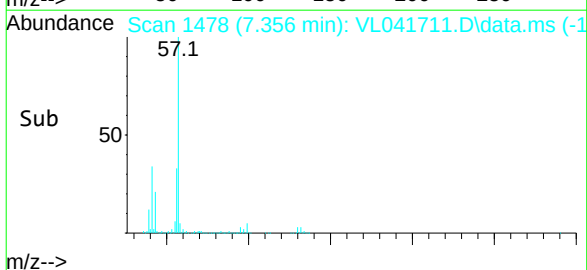
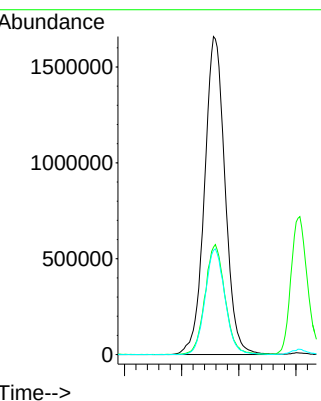
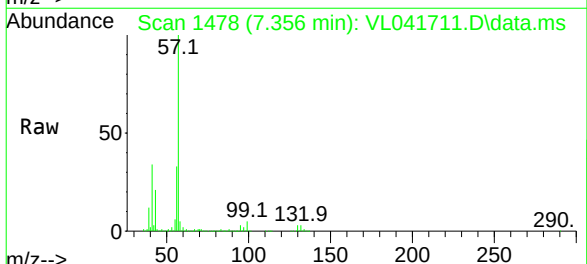
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

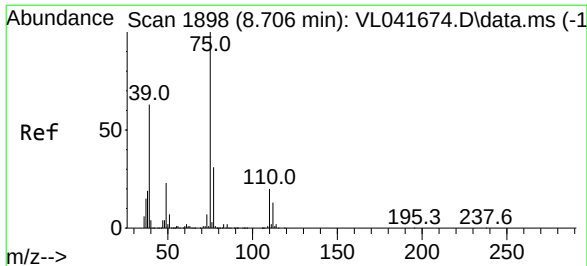


#44  
2,2,4-Trimethylpentane  
Concen: 10.251 ppbv  
RT: 7.356 min Scan# 1478  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 57 Resp: 4139526  
Ion Ratio Lower Upper  
57 100  
41 33.7 27.0 40.6  
56 32.2 25.8 38.6







#45

t-1,3-Dichloropropene

Concen: 12.329 ppbv

RT: 8.741 min Scan# 19

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 75 Resp: 943007

Ion Ratio Lower Upper

75 100

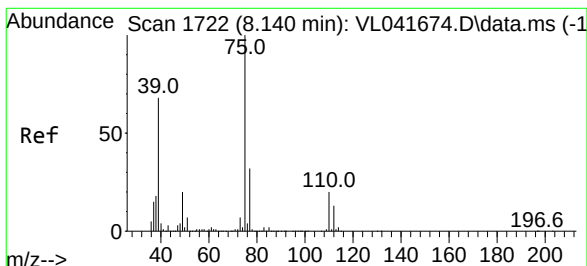
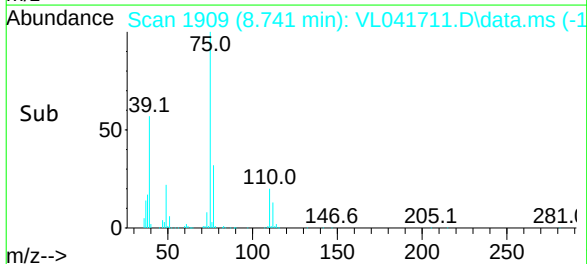
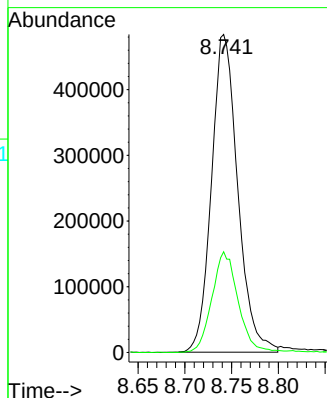
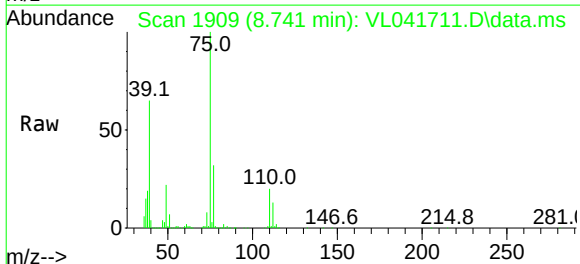
77 31.7 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/22/2024

Supervised By :Mahesh Dadoda 11/22/2024



#46

cis-1,3-Dichloropropene

Concen: 11.647 ppbv

RT: 8.172 min Scan# 1732

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

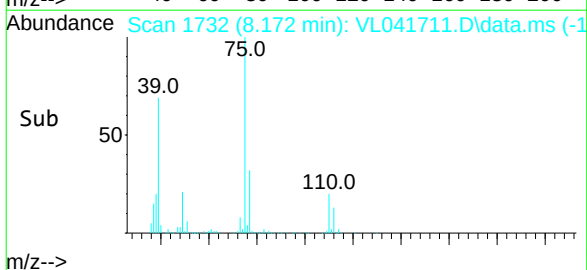
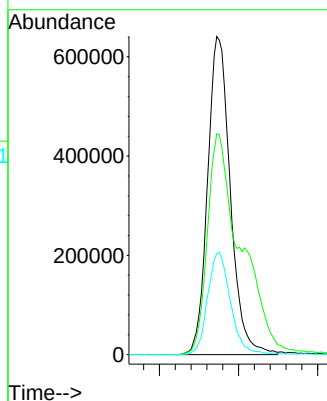
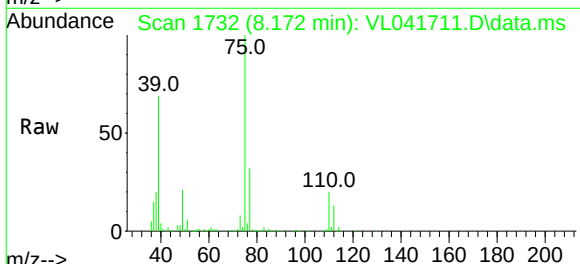
Tgt Ion: 75 Resp: 1279587

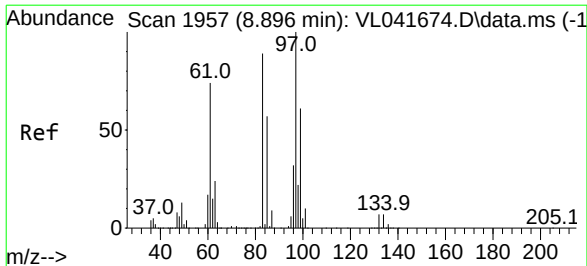
Ion Ratio Lower Upper

75 100

39 69.4 54.1 81.1

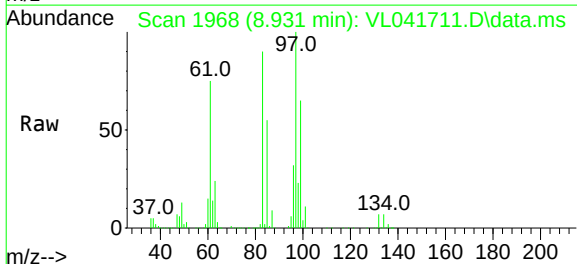
77 31.8 25.3 37.9





#47  
1,1,2-Trichloroethane  
Concen: 9.898 ppbv  
RT: 8.931 min Scan# 1957  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

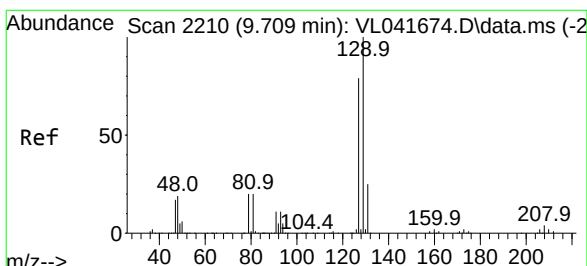
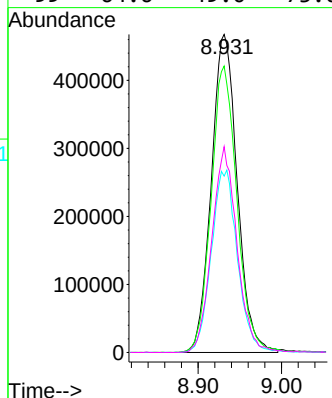
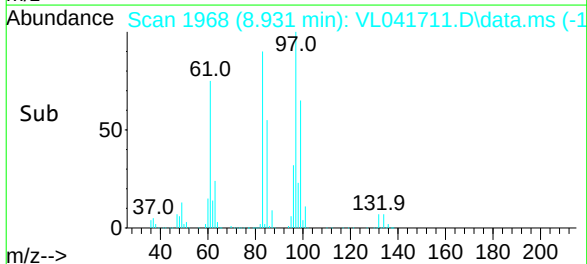
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 97 Resp: 1009245  
Ion Ratio Lower Upper  
97 100  
83 90.0 71.0 106.6  
85 55.5 45.4 68.2  
99 64.6 49.0 73.6

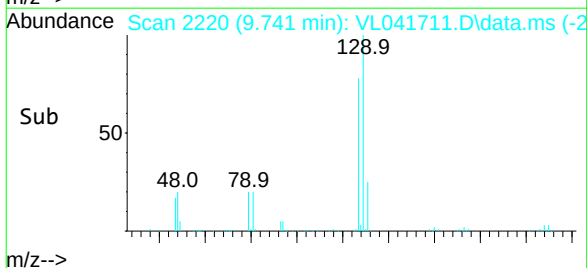
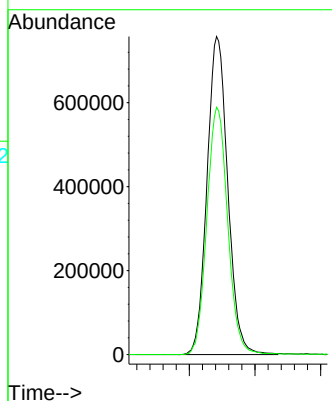
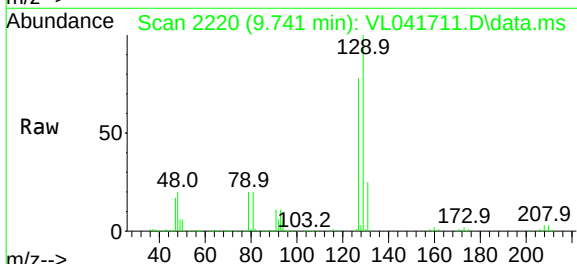
Manual Integrations  
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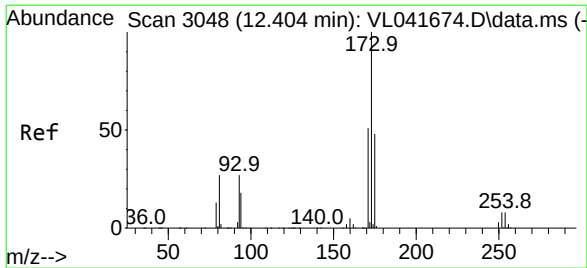
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#48  
Dibromochloromethane  
Concen: 10.722 ppbv  
RT: 9.741 min Scan# 2220  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion:129 Resp: 1661895  
Ion Ratio Lower Upper  
129 100  
127 78.3 39.1 117.2





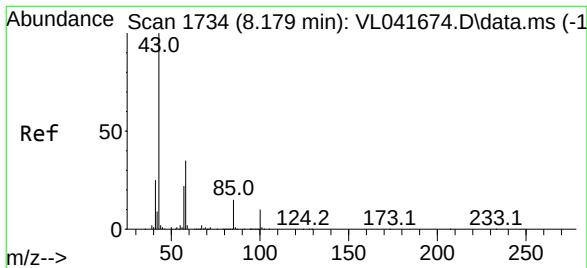
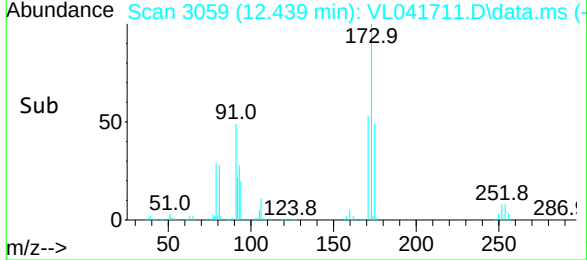
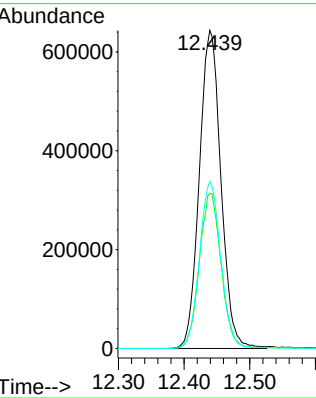
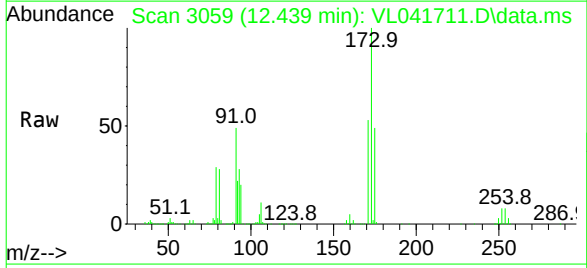
#49  
Bromoform  
Concen: 11.079 ppbv  
RT: 12.439 min Scan# 3048  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 173 Resp: 1469304  
Ion Ratio Lower Upper  
173 100  
175 49.5 39.2 58.8  
171 52.2 41.7 62.5

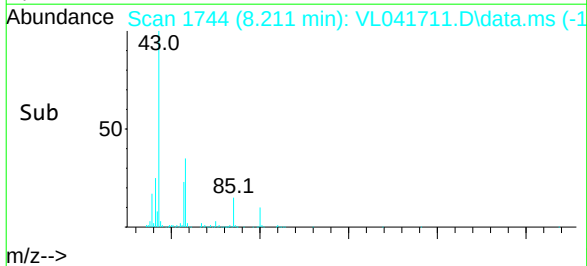
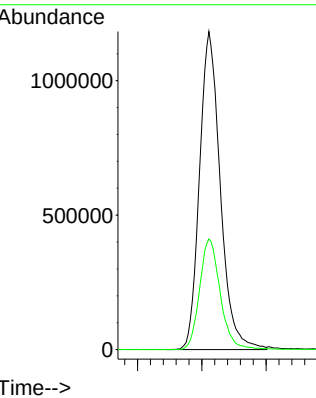
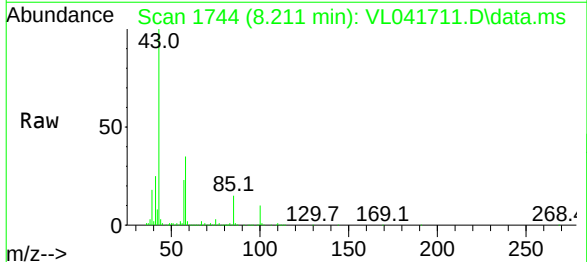
Manual Integrations  
APPROVED

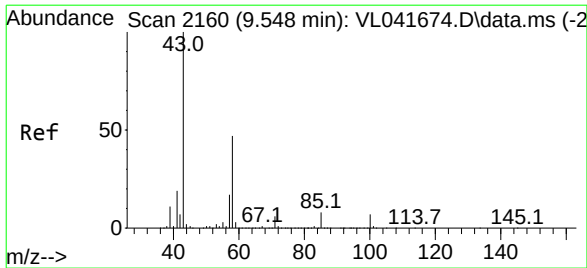
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#50  
4-Methyl-2-Pentanone  
Concen: 10.787 ppbv  
RT: 8.211 min Scan# 1744  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 43 Resp: 2653020  
Ion Ratio Lower Upper  
43 100  
58 34.8 27.7 41.5





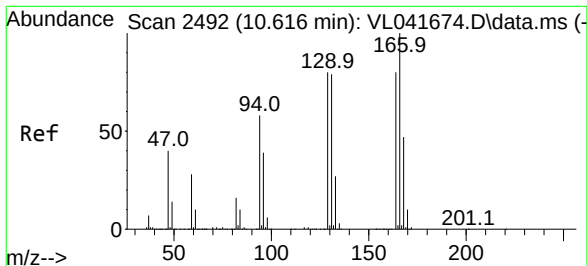
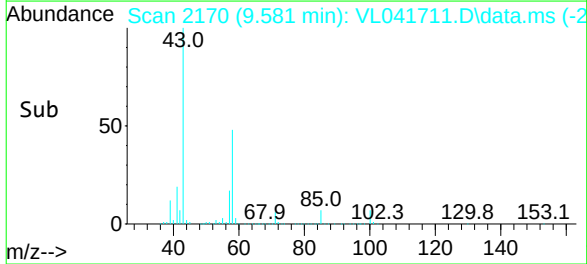
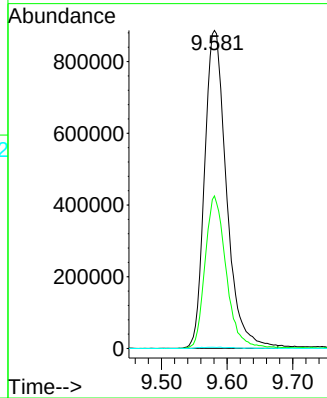
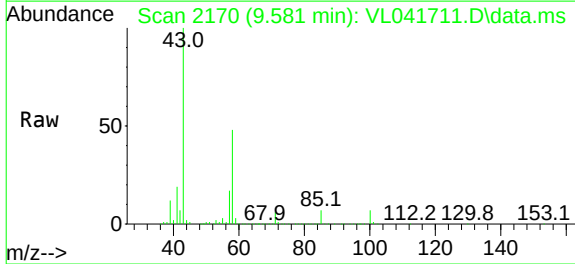
#51  
2-Hexanone  
Concen: 11.460 ppbv  
RT: 9.581 min Scan# 2160  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 2052626  
Ion Ratio Lower Upper  
43 100  
58 46.8 37.0 55.6  
98 0.6 0.6 0.8

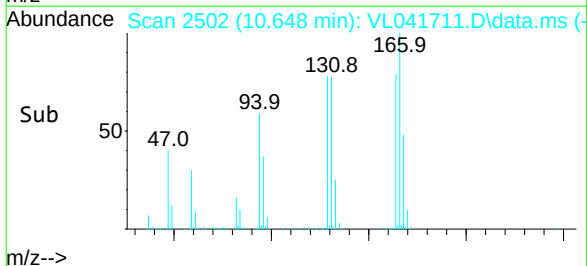
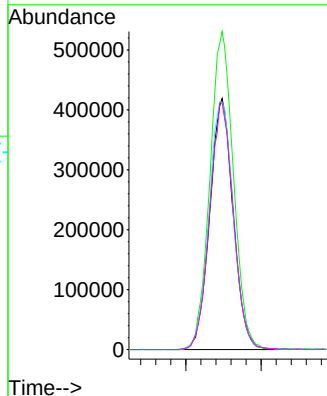
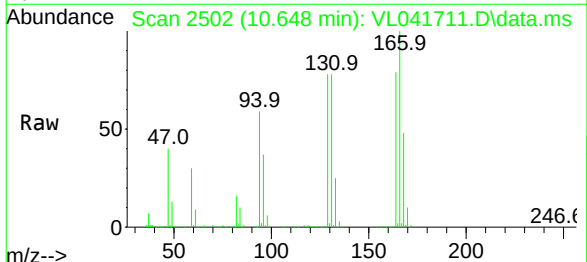
Manual Integrations  
APPROVED

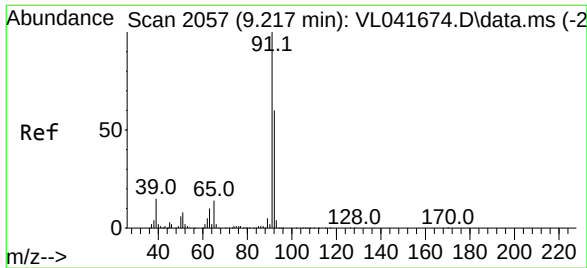
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#52  
Tetrachloroethene  
Concen: 11.127 ppbv  
RT: 10.648 min Scan# 2502  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

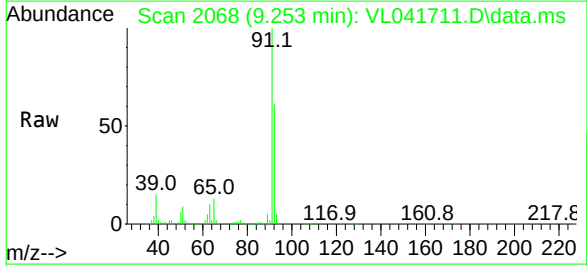
Tgt Ion:164 Resp: 903960  
Ion Ratio Lower Upper  
164 100  
166 126.5 100.2 150.4  
129 98.3 79.7 119.5  
131 98.3 79.0 118.4





#53  
Toluene  
Concen: 11.317 ppbv  
RT: 9.253 min Scan# 2057  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

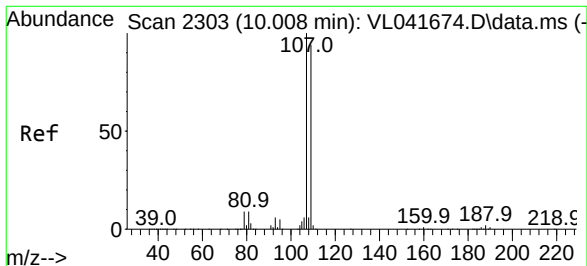
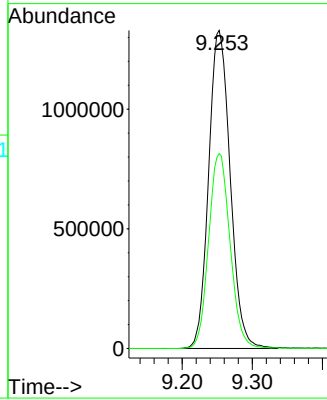
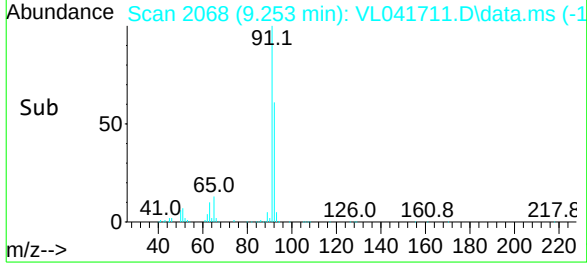
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



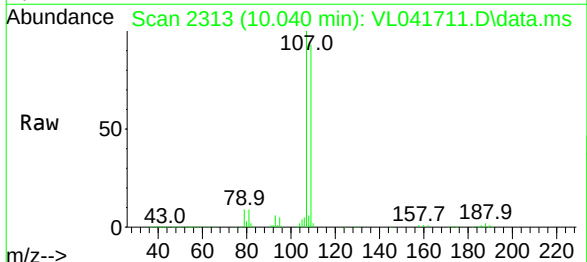
Tgt Ion: 91 Resp: 2837342  
Ion Ratio Lower Upper  
91 100  
92 61.0 49.0 73.4

Manual Integrations  
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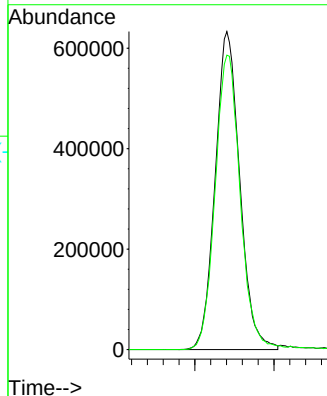
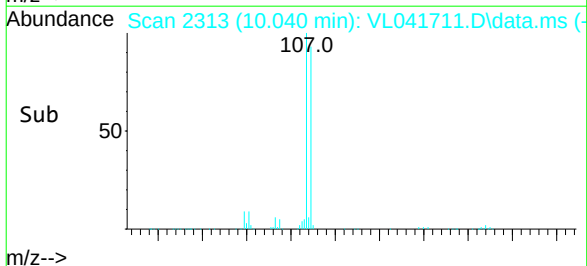
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

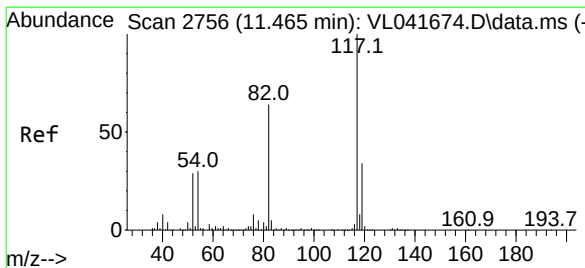


#54  
1,2-Dibromoethane  
Concen: 11.480 ppbv  
RT: 10.040 min Scan# 2313  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50



Tgt Ion:107 Resp: 1367674  
Ion Ratio Lower Upper  
107 100  
109 92.6 74.9 112.3





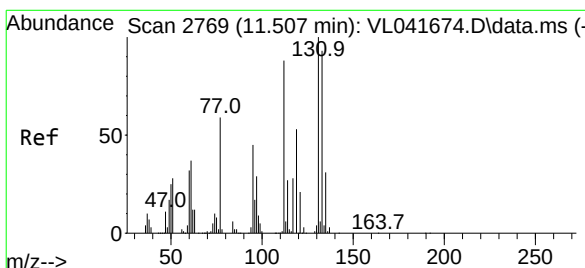
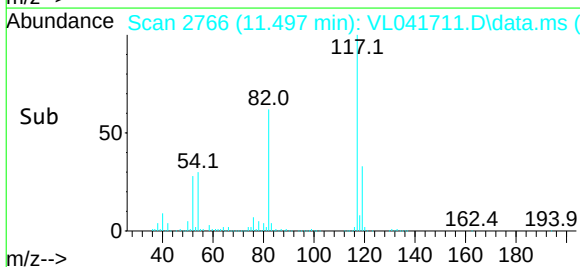
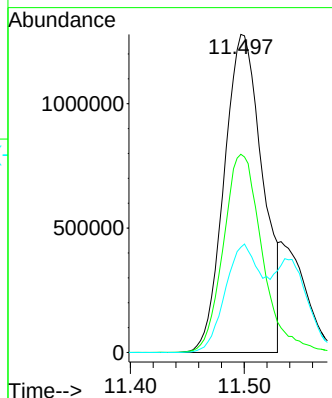
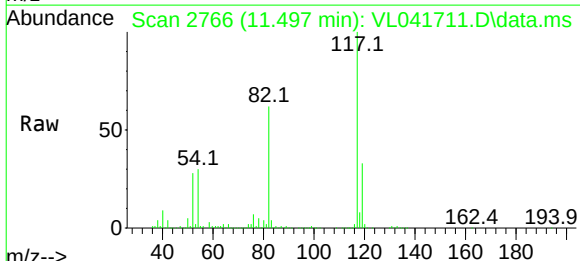
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 11.497 min Scan# 2756  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:117 Resp: 2996508  
Ion Ratio Lower Upper  
117 100  
82 64.1 49.8 74.8  
119 29.6 24.2 36.4

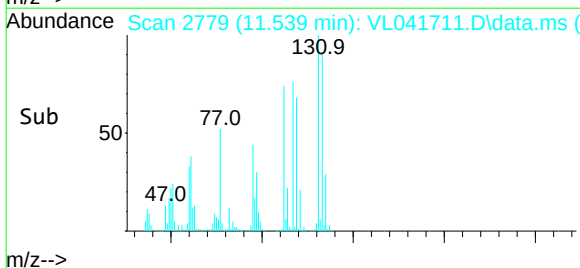
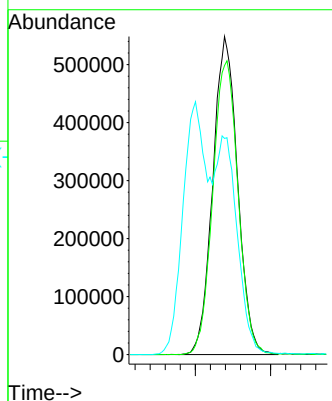
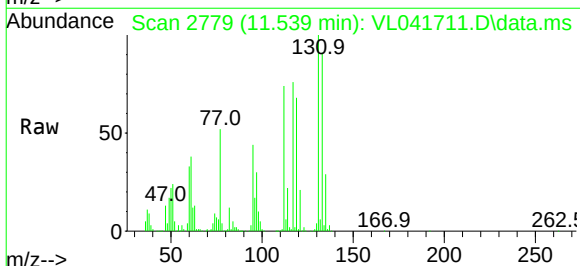
Manual Integrations  
APPROVED

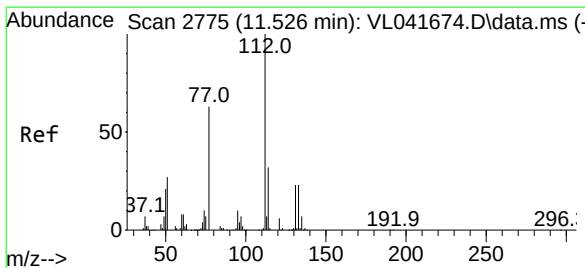
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.140 ppbv  
RT: 11.539 min Scan# 2779  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion:131 Resp: 1253171  
Ion Ratio Lower Upper  
131 100  
133 94.8 76.5 114.7  
119 64.6 49.8 74.8





#57

Chlorobenzene

Concen: 9.937 ppbv

RT: 11.558 min Scan# 27

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:112 Resp: 2202336

Ion Ratio Lower Upper

112 100

77 65.7 51.4 77.2

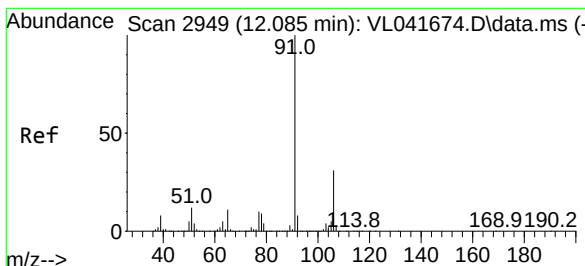
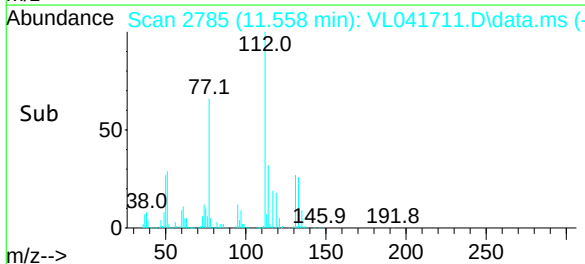
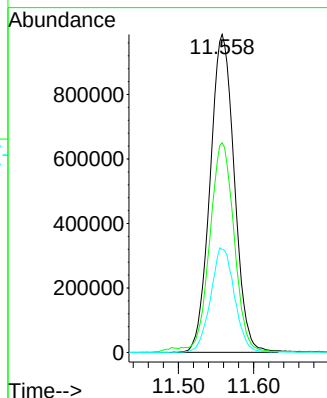
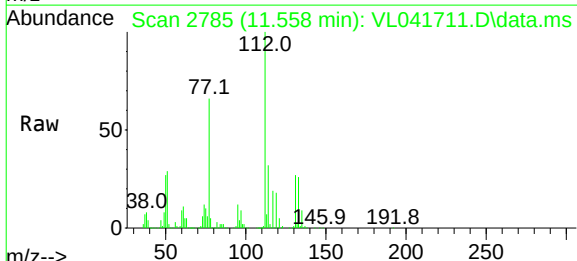
114 32.3 28.4 34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/22/2024

Supervised By :Mahesh Dadoda 11/22/2024



#58

Ethyl Benzene

Concen: 11.592 ppbv

RT: 12.121 min Scan# 2960

Delta R.T. 0.000 min

Lab File: VL041711.D

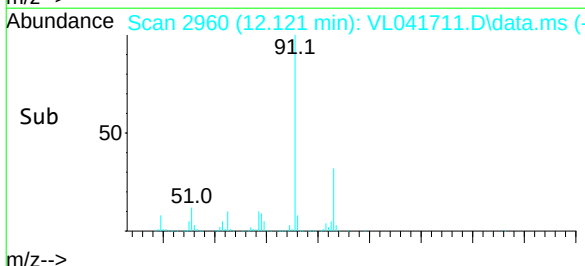
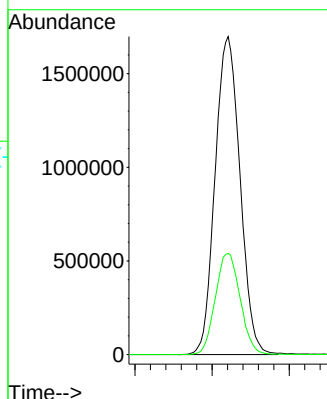
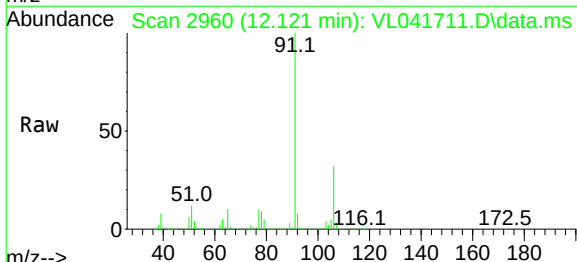
Acq: 21 Nov 2024 8:50

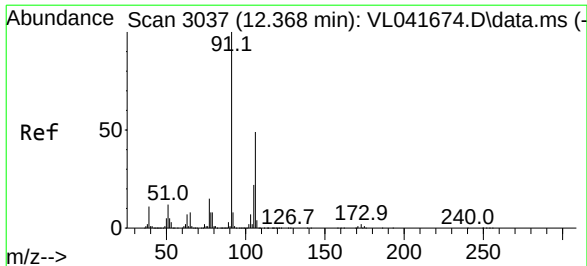
Tgt Ion: 91 Resp: 3808048

Ion Ratio Lower Upper

91 100

106 31.8 24.9 37.3





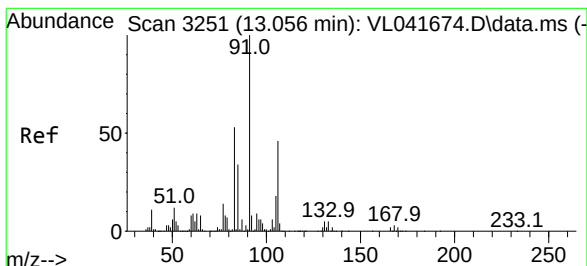
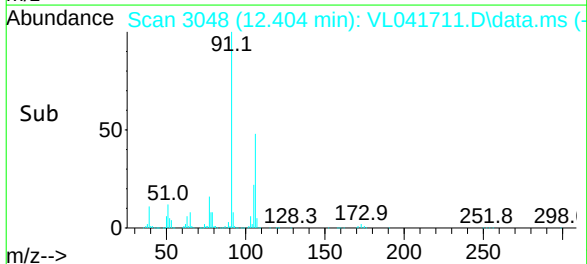
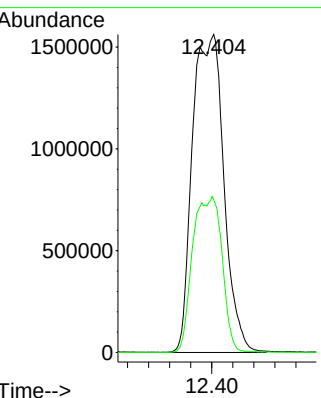
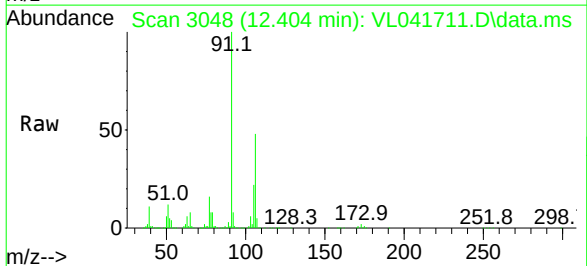
#59  
m/p-Xylene  
Concen: 21.958 ppbv m  
RT: 12.404 min Scan# 3037  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 6459706  
Ion Ratio Lower Upper  
91 100  
106 46.0 36.9 55.3

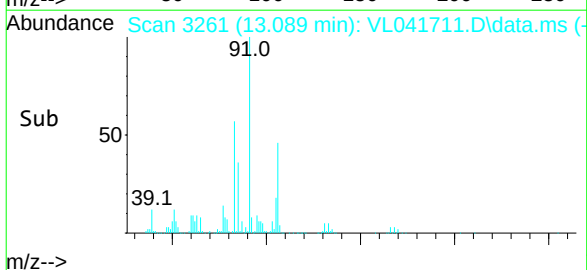
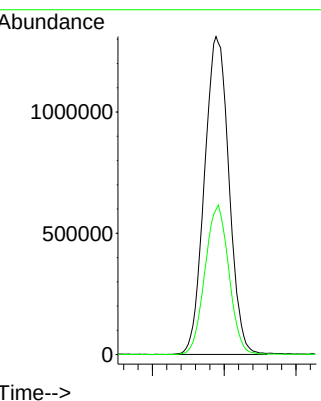
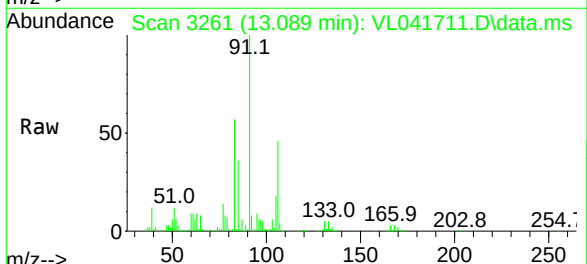
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

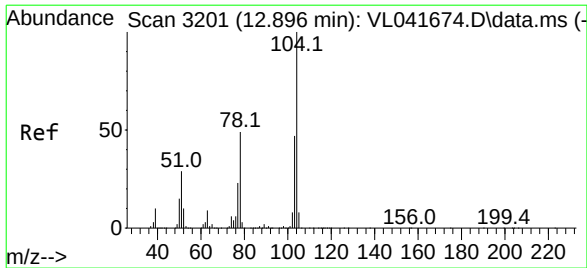


#60  
o-Xylene  
Concen: 11.080 ppbv  
RT: 13.089 min Scan# 3261  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 91 Resp: 3108102  
Ion Ratio Lower Upper  
91 100  
106 45.9 23.2 69.6







#61

Styrene

Concen: 12.940 ppbv

RT: 12.928 min Scan# 3201

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:104 Resp: 1498189

Ion Ratio Lower Upper

104 100

78 49.9 39.8 59.8

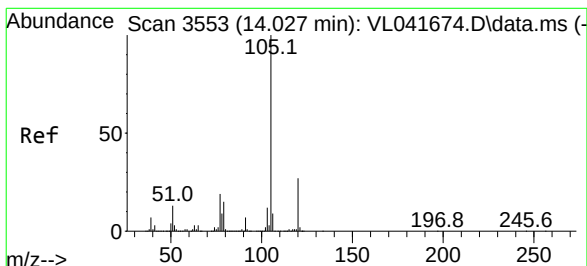
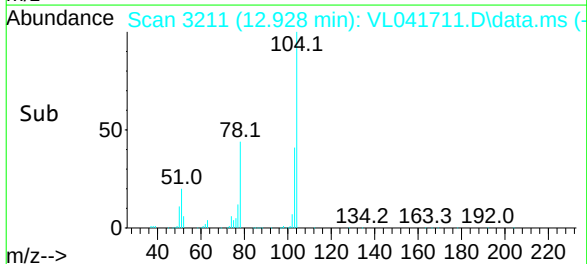
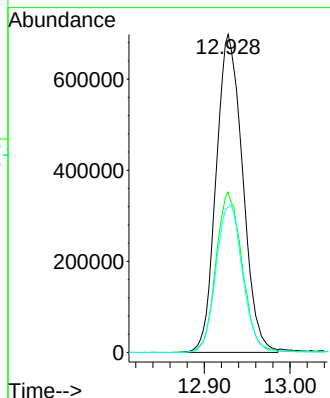
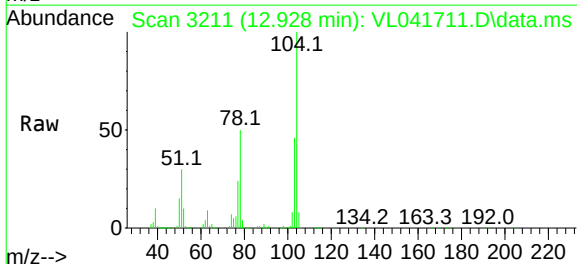
103 47.1 37.4 56.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/22/2024

Supervised By :Mahesh Dadoda 11/22/2024



#62

Isopropylbenzene

Concen: 10.583 ppbv

RT: 14.060 min Scan# 3563

Delta R.T. 0.000 min

Lab File: VL041711.D

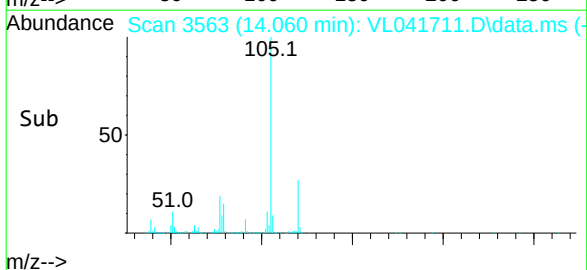
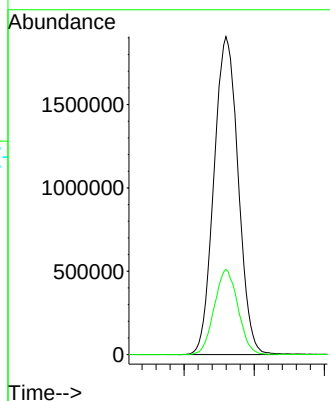
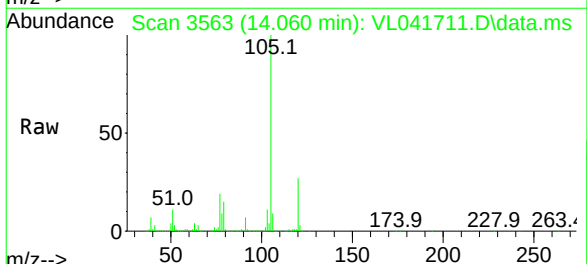
Acq: 21 Nov 2024 8:50

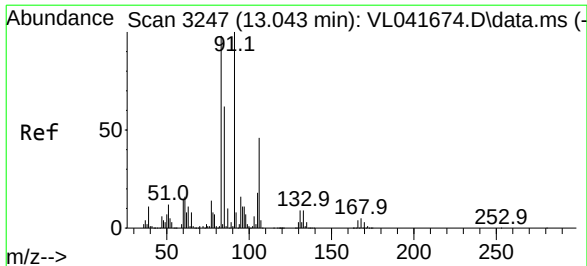
Tgt Ion:105 Resp: 4585032

Ion Ratio Lower Upper

105 100

120 26.2 21.1 31.7





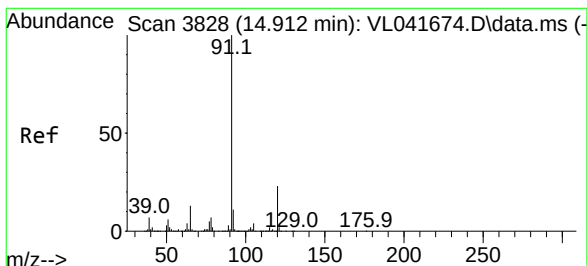
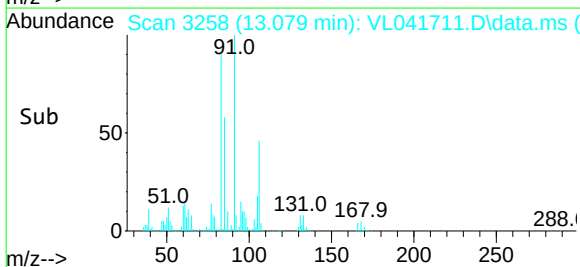
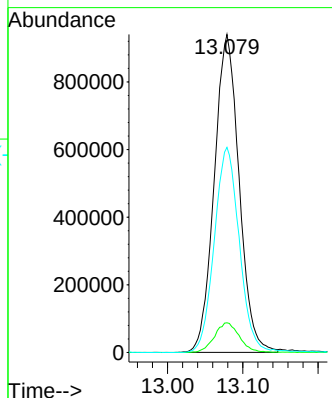
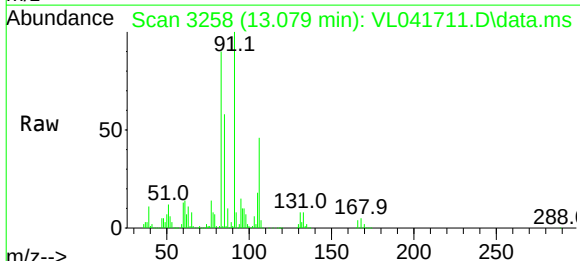
#63  
1,1,2,2-Tetrachloroethane  
Concen: 10.448 ppbv  
RT: 13.079 min Scan# 3247  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 83 Resp: 2155854  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 65.4 32.6 98.0

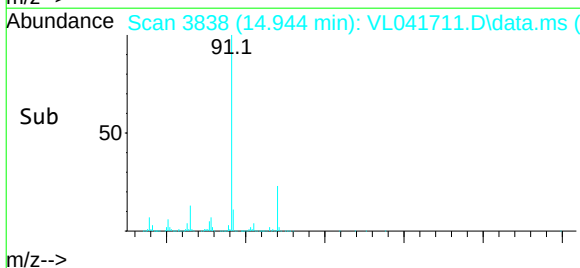
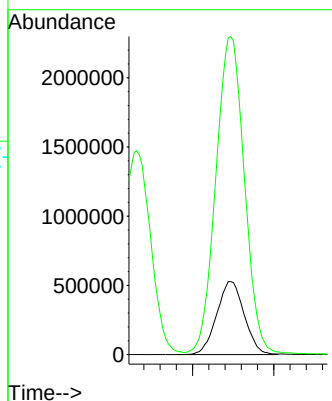
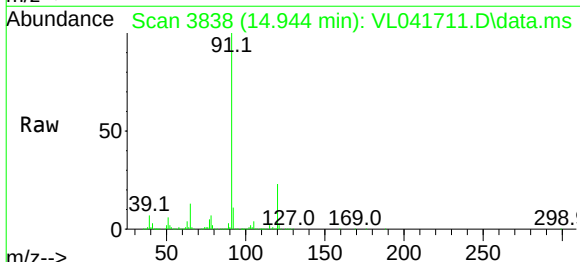
Manual Integrations  
APPROVED

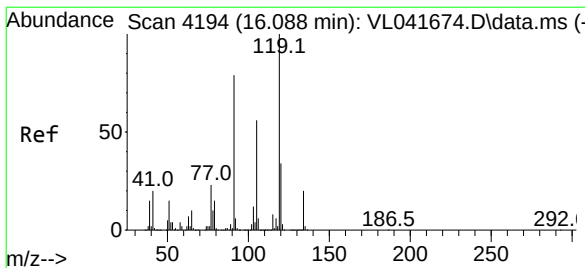
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#64  
n-propylbenzene  
Concen: 10.961 ppbv  
RT: 14.944 min Scan# 3838  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion:120 Resp: 1243110  
Ion Ratio Lower Upper  
120 100  
91 454.7 362.4 543.6





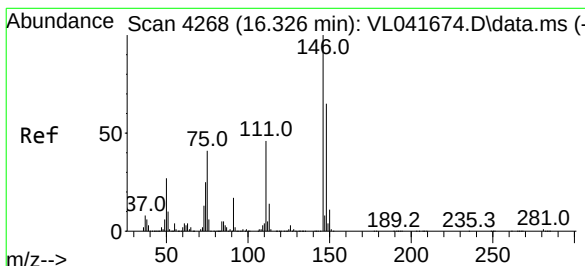
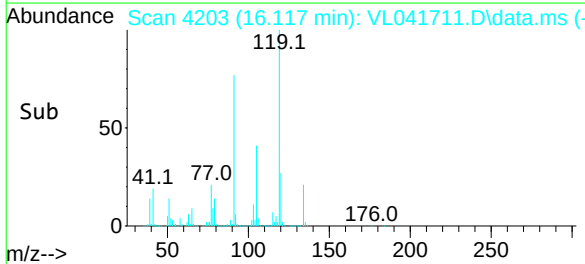
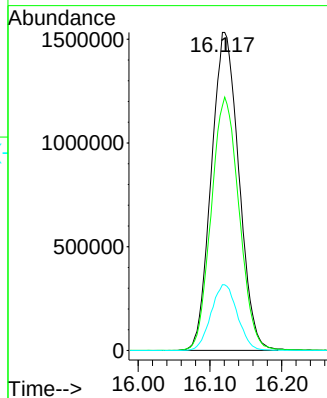
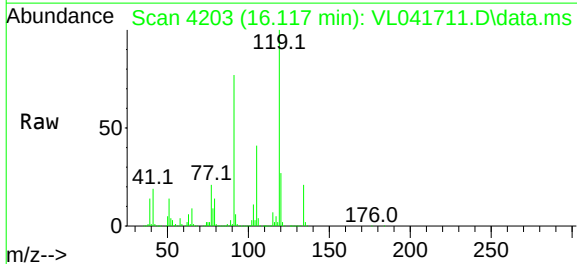
#65  
tert-Butylbenzene  
Concen: 10.510 ppbv  
RT: 16.117 min Scan# 42  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:119 Resp: 4092301  
Ion Ratio Lower Upper  
119 100  
91 80.5 64.3 96.5  
134 19.8 15.8 23.8

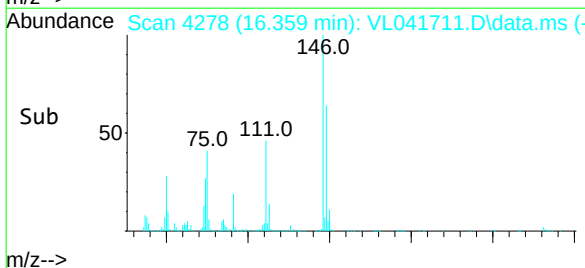
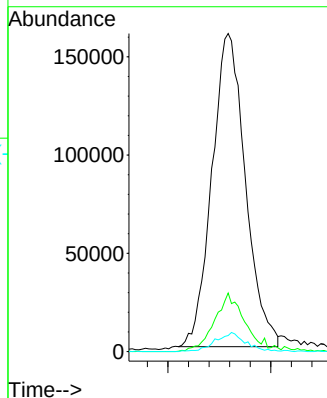
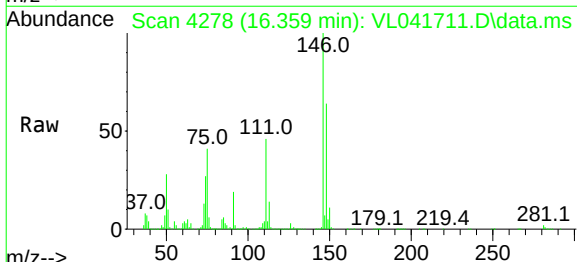
Manual Integrations  
APPROVED

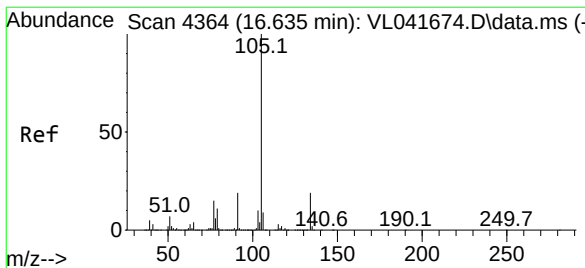
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#66  
Benzyl Chloride  
Concen: 12.031 ppbv  
RT: 16.359 min Scan# 4278  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

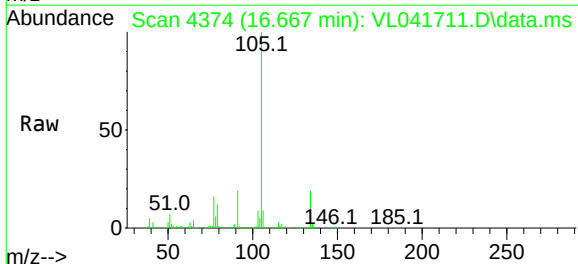
Tgt Ion: 91 Resp: 360391  
Ion Ratio Lower Upper  
91 100  
126 17.8 13.8 20.6  
128 5.6 4.3 6.5





#67  
sec-Butylbenzene  
Concen: 10.510 ppbv  
RT: 16.667 min Scan# 4364  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

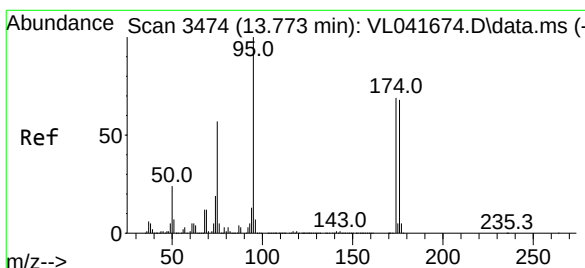
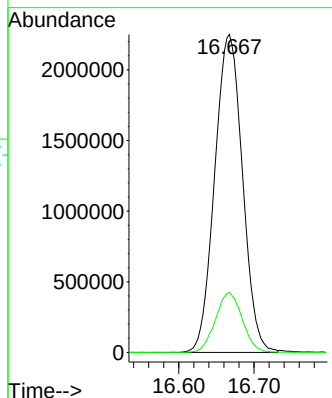
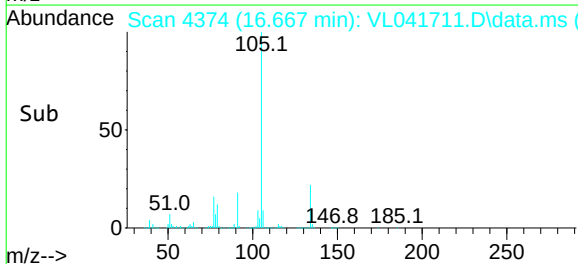
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 105 Resp: 5768247  
Ion Ratio Lower Upper  
105 100  
134 18.3 14.6 22.0

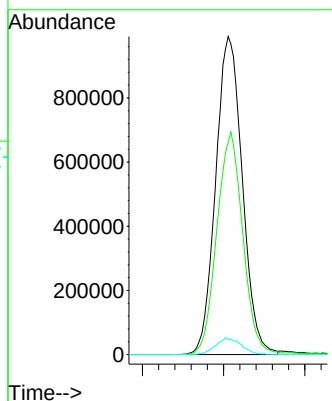
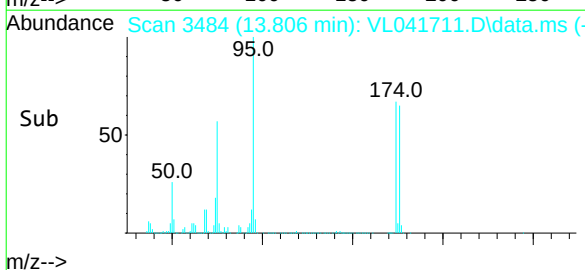
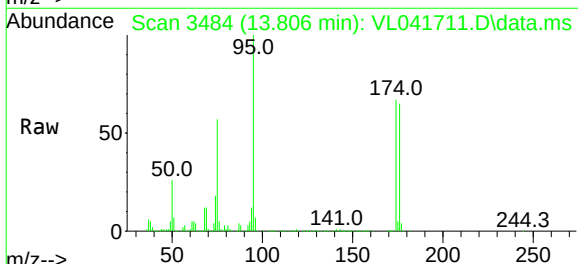
Manual Integrations  
APPROVED

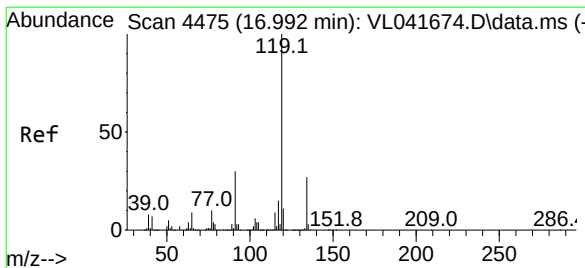
Reviewed By : Semsettin Yesilyurt 11/22/2024  
Supervised By : Mahesh Dadoda 11/22/2024



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.223 ppbv  
RT: 13.806 min Scan# 3484  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

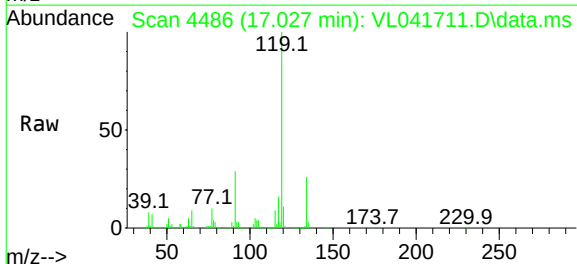
Tgt Ion: 95 Resp: 2257188  
Ion Ratio Lower Upper  
95 100  
174 68.7 55.6 83.4  
175 5.1 4.2 6.2





#69  
p-Isopropyltoluene  
Concen: 10.847 ppbv  
RT: 17.027 min Scan# 44  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

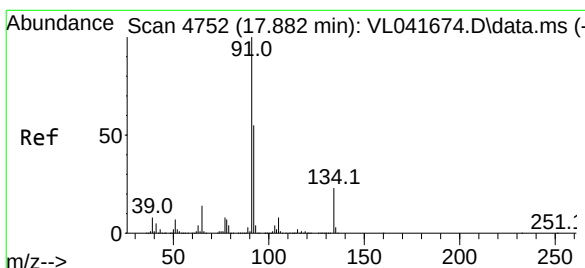
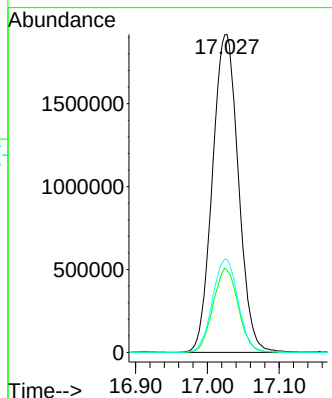
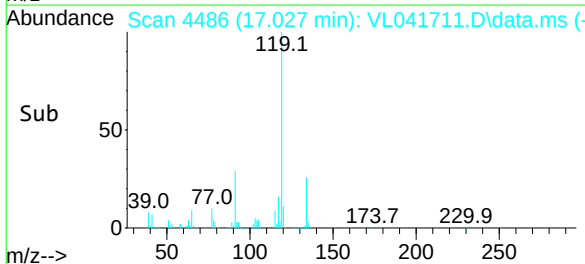
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



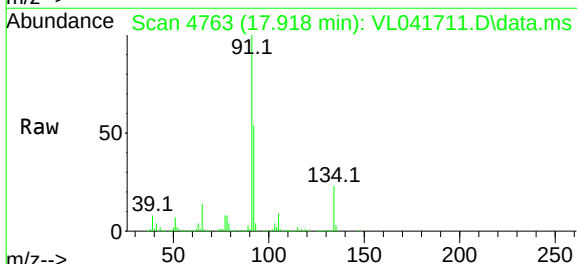
Tgt Ion: 119 Resp: 4812497  
Ion Ratio Lower Upper  
119 100  
134 25.7 20.8 31.2  
91 28.9 23.2 34.8

Manual Integrations  
APPROVED

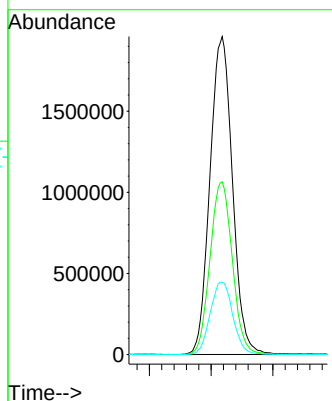
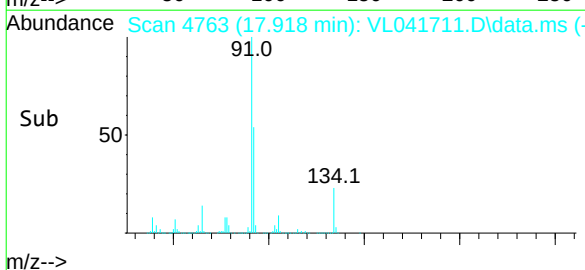
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

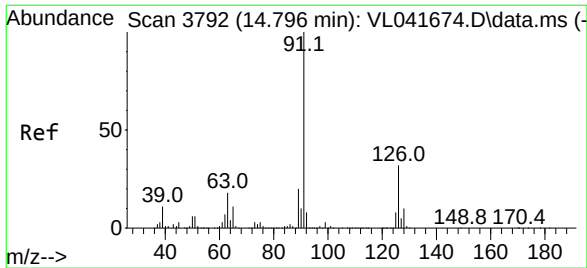


#70  
n-Butylbenzene  
Concen: 10.930 ppbv  
RT: 17.918 min Scan# 4763  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50



Tgt Ion: 91 Resp: 4962014  
Ion Ratio Lower Upper  
91 100  
92 54.0 43.3 64.9  
134 23.1 18.4 27.6





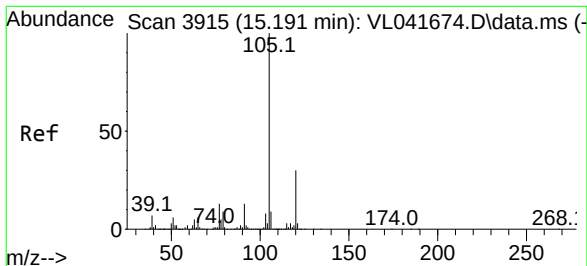
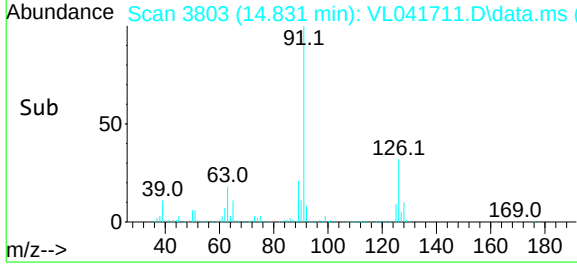
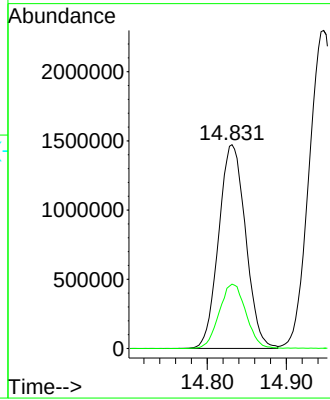
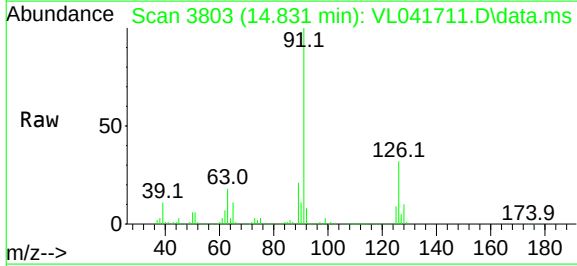
#71  
2-Chlorotoluene  
Concen: 11.127 ppbv  
RT: 14.831 min Scan# 38  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 3484566  
Ion Ratio Lower Upper  
91 100  
126 31.5 12.8 51.0

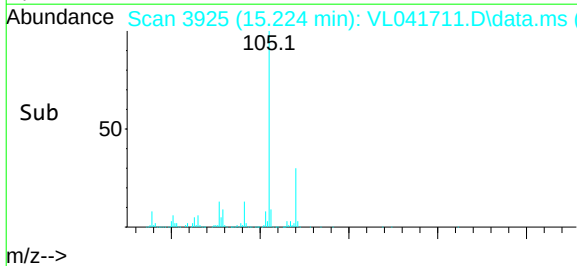
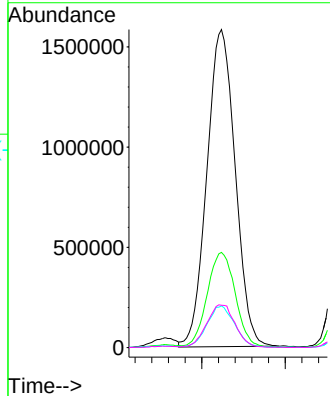
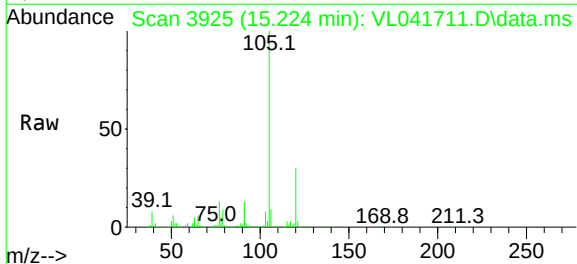
Manual Integrations  
APPROVED

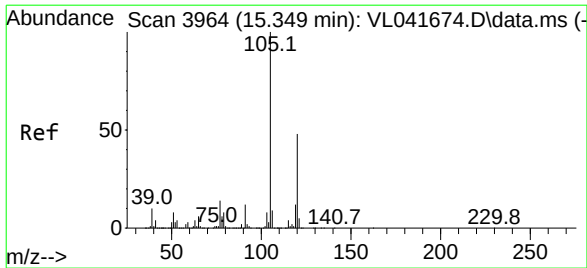
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#72  
4-Ethyltoluene  
Concen: 11.456 ppbv  
RT: 15.224 min Scan# 3925  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

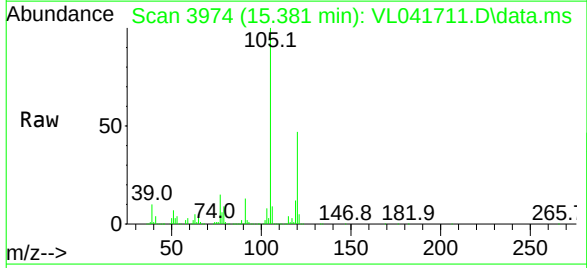
Tgt Ion:105 Resp: 3736233  
Ion Ratio Lower Upper  
105 100  
120 30.9 25.0 37.4  
91 12.9 10.6 15.8  
77 14.1 11.1 16.7





#73  
1,3,5-Trimethylbenzene  
Concen: 11.120 ppbv  
RT: 15.381 min Scan# 3964  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

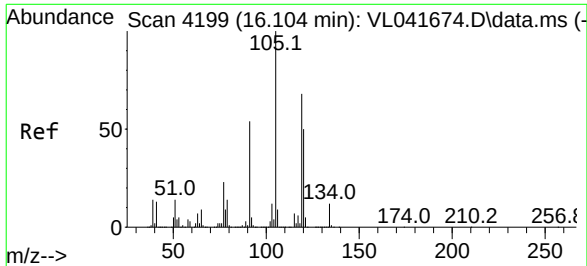
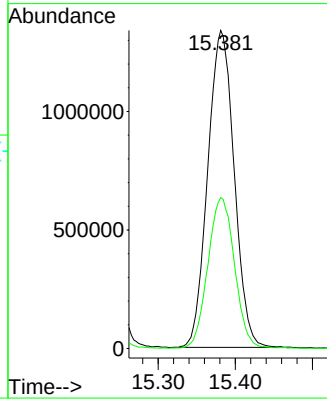
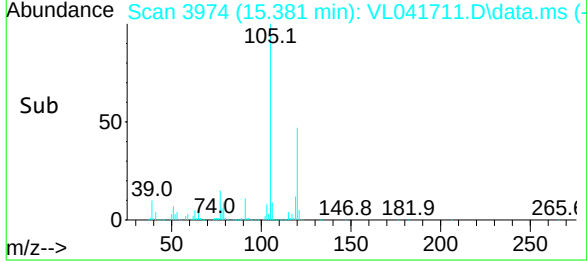
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



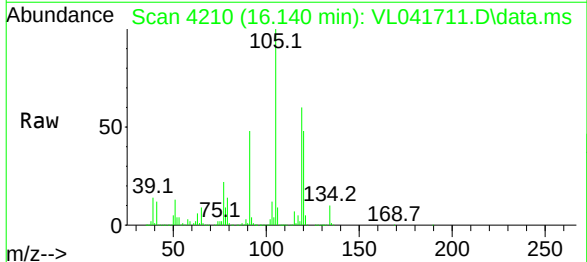
Tgt Ion:105 Resp: 3182515  
Ion Ratio Lower Upper  
105 100  
120 47.4 38.4 57.6

Manual Integrations  
APPROVED

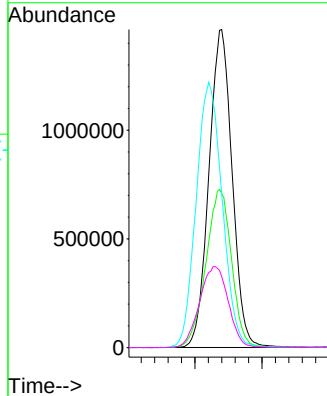
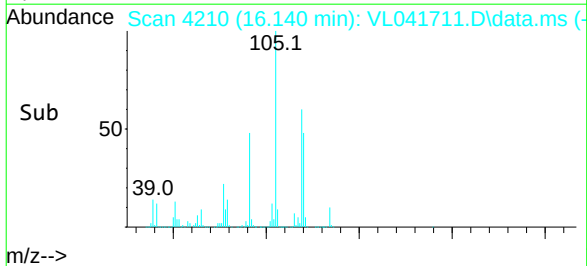
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

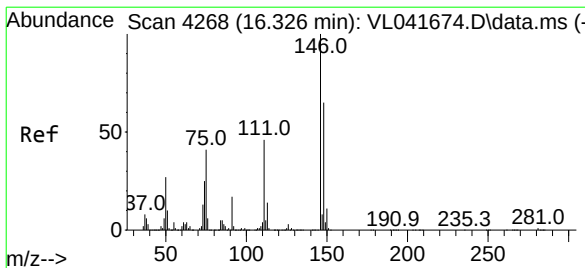


#74  
1,2,4-Trimethylbenzene  
Concen: 10.582 ppbv  
RT: 16.140 min Scan# 4210  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50



Tgt Ion:105 Resp: 3517746  
Ion Ratio Lower Upper  
105 100  
120 48.3 39.8 59.8  
91 48.2 43.2 64.8  
77 22.3 18.5 27.7





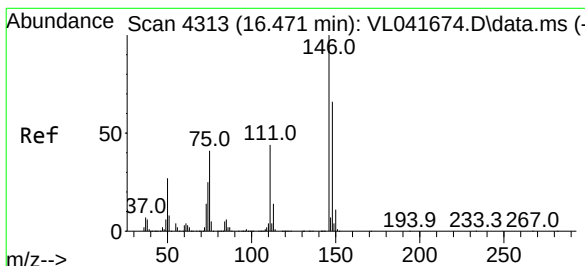
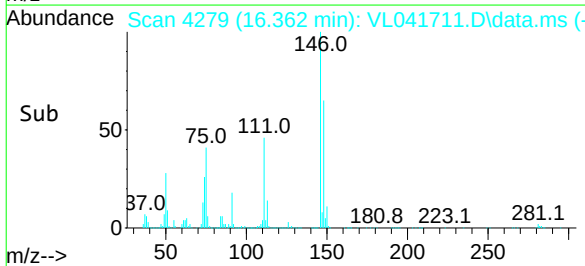
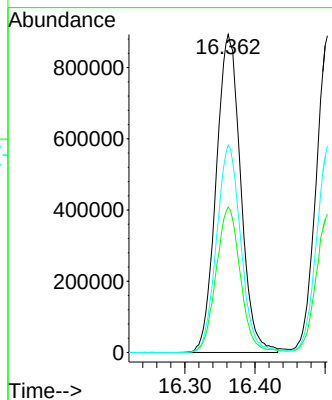
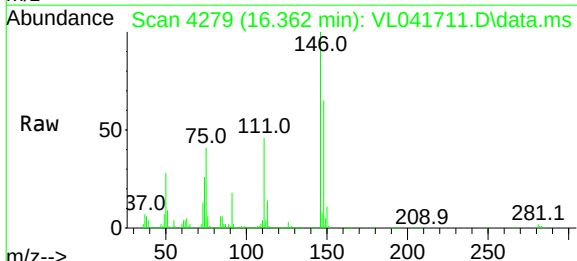
#75  
1,3-Dichlorobenzene  
Concen: 10.522 ppbv  
RT: 16.362 min Scan# 4268  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:146 Resp: 2166163  
Ion Ratio Lower Upper  
146 100  
111 45.4 22.8 68.3  
148 64.6 32.4 97.0

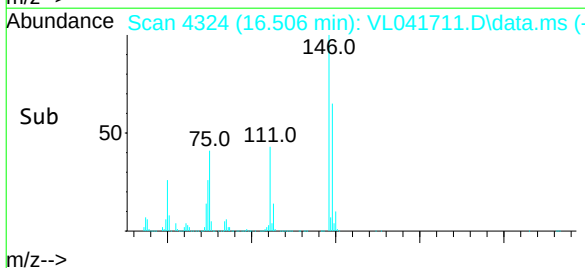
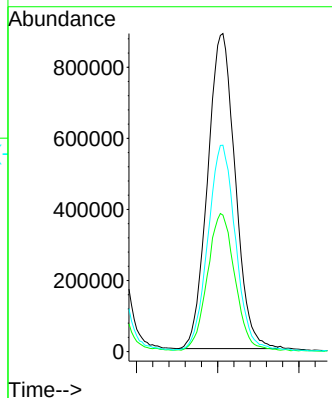
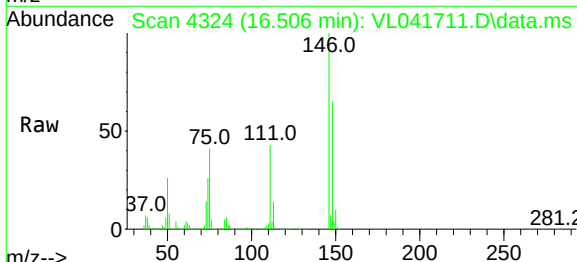
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

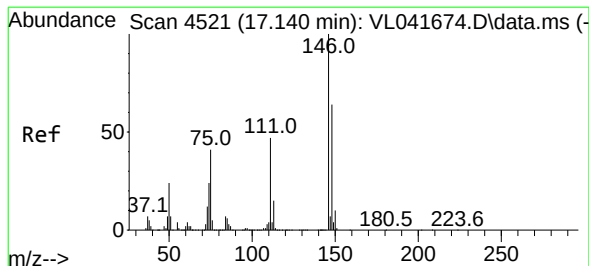


#76  
1,4-Dichlorobenzene  
Concen: 10.547 ppbv  
RT: 16.506 min Scan# 4324  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion:146 Resp: 2095111  
Ion Ratio Lower Upper  
146 100  
111 44.9 22.1 66.3  
148 66.5 33.3 99.8







#77

1,2-Dichlorobenzene

Concen: 10.343 ppbv

RT: 17.175 min Scan# 4521

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

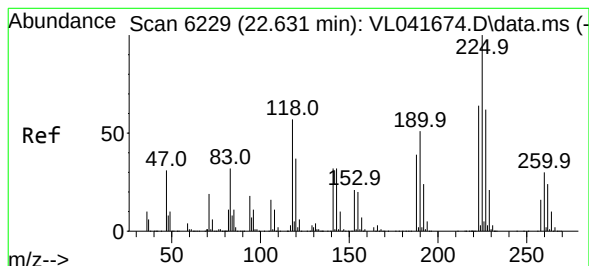
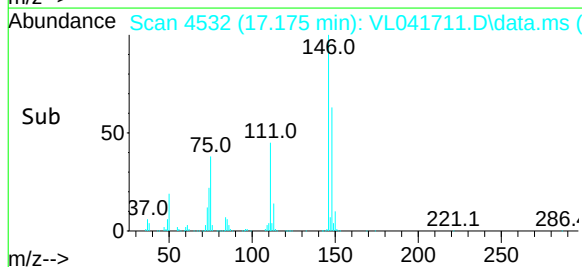
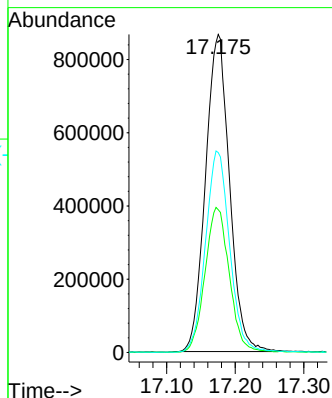
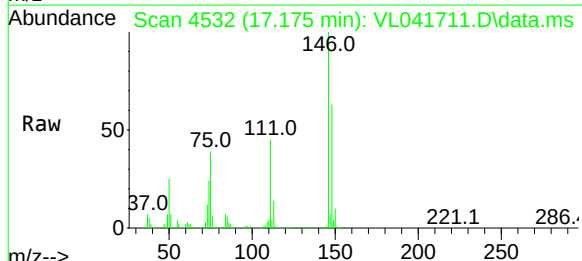
VSTDCCC010

Tgt Ion:146 Resp: 2109445

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 46.5  | 23.4  | 70.3  |
| 148 | 64.2  | 32.1  | 96.5  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#78

Hexachloro-1,3-Butadiene

Concen: 9.022 ppbv m

RT: 22.664 min Scan# 6239

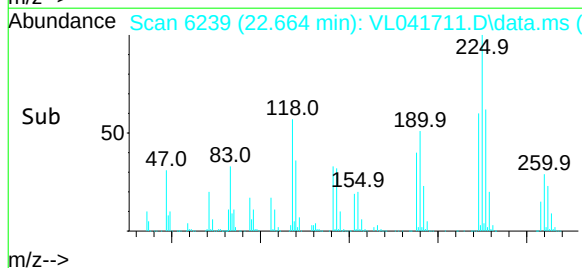
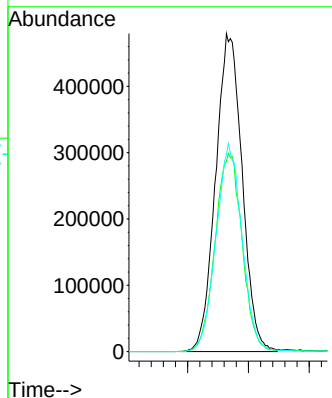
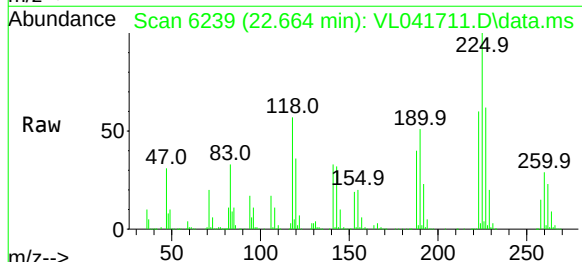
Delta R.T. 0.000 min

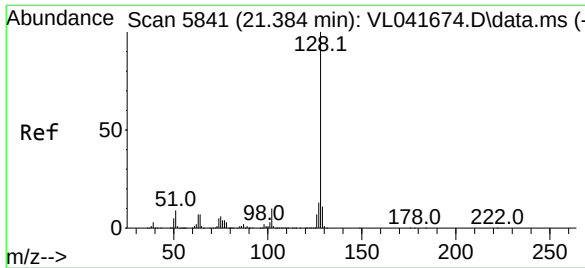
Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Tgt Ion:225 Resp: 1455287

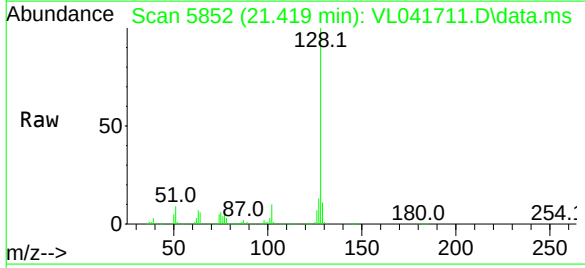
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 225 | 100   |       |       |
| 223 | 63.7  | 51.1  | 76.7  |
| 227 | 64.1  | 51.3  | 76.9  |





#79  
Naphthalene  
Concen: 14.389 ppbv  
RT: 21.419 min Scan# 5841  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

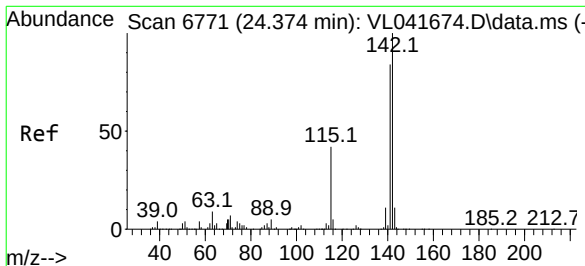
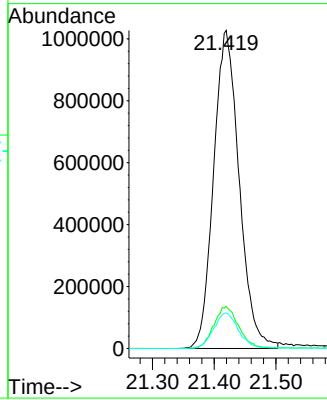
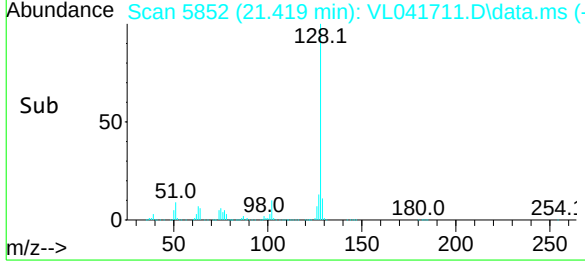
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



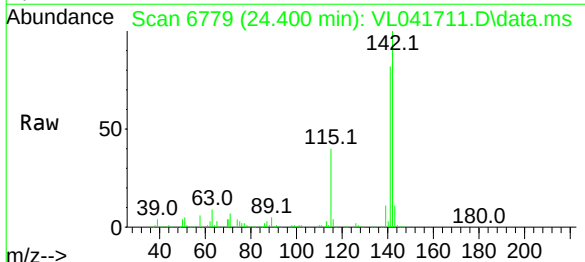
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 128   | Resp: | 2952462 |
| Ion      | Ratio | Lower | Upper   |
| 128      | 100   |       |         |
| 127      | 13.3  | 10.5  | 15.7    |
| 129      | 11.2  | 8.7   | 13.1    |

Manual Integrations  
APPROVED

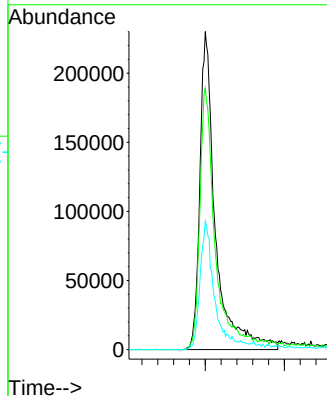
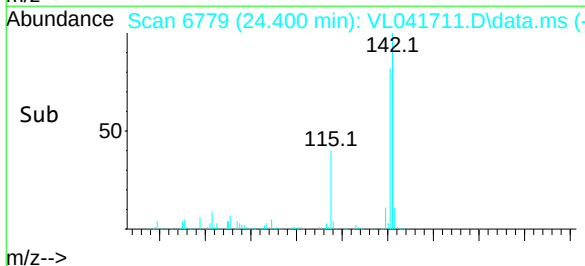
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

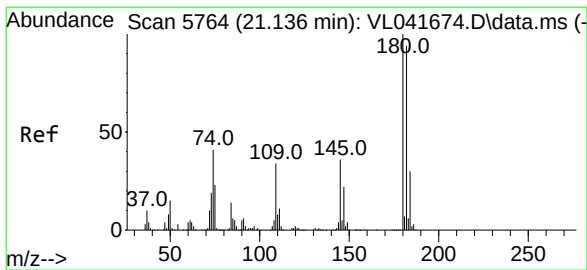


#80  
Naphthalene, 2-methyl-  
Concen: 14.101 ppbv  
RT: 24.400 min Scan# 6779  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50



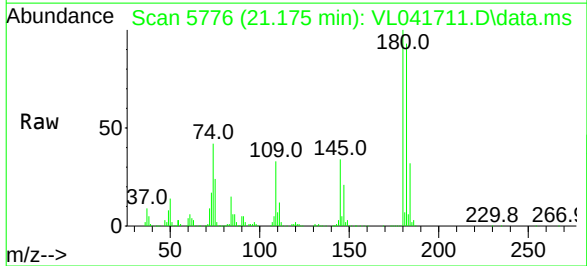
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 142   | Resp: | 630748 |
| Ion      | Ratio | Lower | Upper  |
| 142      | 100   |       |        |
| 141      | 84.6  | 68.1  | 102.1  |
| 115      | 40.1  | 33.1  | 49.7   |





#81  
1,2,4-Trichlorobenzene  
Concen: 11.633 ppbv  
RT: 21.175 min Scan# 57  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

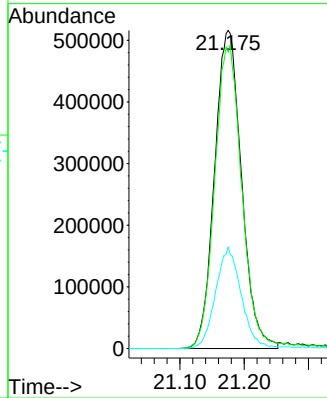
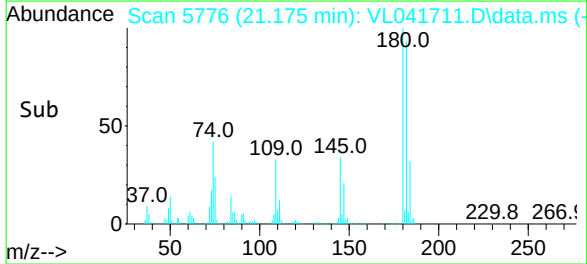
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion:180 Resp: 1501117  
Ion Ratio Lower Upper  
180 100  
182 96.9 78.2 117.2  
184 30.6 25.0 37.4

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112124\  
Data File : VL041711.D  
Acq On : 21 Nov 2024 8:50  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Nov 22 01:01:27 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 22 01:00:55 2024  
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   | 100   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.807 | 1.212  | 32.9# | 64    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.303 | 1.200  | 7.9   | 101   | 0.00     |
| 4    | Chloromethane               | 0.690 | 0.658  | 4.6   | 102   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.621 | 0.629  | -1.3  | 101   | 0.00     |
| 6 T  | Bromomethane                | 0.329 | 0.323  | 1.8   | 102   | 0.00     |
| 7    | Chloroethane                | 0.227 | 0.229  | -0.9  | 103   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.613 | 1.494  | 7.4   | 101   | 0.00     |
| 9 T  | Propene                     | 0.568 | 0.535  | 5.8   | 101   | 0.00     |
| 10 T | Heptane                     | 1.272 | 1.333  | -4.8  | 102   | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.574 | 1.487  | 5.5   | 101   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.144 | 1.106  | 3.3   | 103   | 0.00     |
| 13   | Ethanol                     | 0.035 | 0.031# | 11.4  | 106   | 0.00     |
| 14 T | Bromoethene                 | 0.460 | 0.448  | 2.6   | 104   | 0.00     |
| 15 T | Acetone                     | 1.231 | 1.137  | 7.6   | 104   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.621 | 0.630  | -1.4  | 101   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.080 | 1.080  | 0.0   | 104   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.502 | 0.487  | 3.0   | 102   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.588 | 0.581  | 1.2   | 106   | 0.00     |
| 20 T | Methylene Chloride          | 0.453 | 0.410  | 9.5   | 103   | 0.00     |
| 21 T | Allyl Chloride              | 0.761 | 0.771  | -1.3  | 102   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.499 | 0.500  | -0.2  | 104   | 0.00     |
| 23 T | Vinyl Acetate               | 0.543 | 0.536  | 1.3   | 104   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.114 | 1.068  | 4.1   | 102   | 0.00     |
| 25 T | Ethyl Acetate               | 2.548 | 2.515  | 1.3   | 102   | 0.00     |
| 26 T | Hexane                      | 0.979 | 0.996  | -1.7  | 103   | 0.00     |
| 27 T | Carbon Disulfide            | 1.100 | 1.195  | -8.6  | 102   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.630 | 0.609  | 3.3   | 107   | 0.00     |
| 29 T | Chloroform                  | 1.616 | 1.533  | 5.1   | 101   | 0.00     |
| 30 T | Cyclohexane                 | 0.833 | 0.844  | -1.3  | 103   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 0.942 | 0.961  | -2.0  | 103   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.474 | 1.501  | -1.8  | 101   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 99    | 0.00     |
| 34 T | 2-Butanone                  | 0.498 | 0.450  | 9.6   | 93    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.528 | 0.568  | -7.6  | 99    | 0.00     |
| 36 T | Benzene                     | 0.741 | 0.766  | -3.4  | 102   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.418 | 0.423  | -1.2  | 102   | 0.00     |
| 38 T | Trichloroethene             | 0.285 | 0.311  | -9.1  | 101   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.293 | 0.294  | -0.3  | 102   | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.105 | 0.115  | -9.5  | 102   | 0.00     |
| 41 T | Tetrahydrofuran             | 0.284 | 0.314  | -10.6 | 105   | 0.00     |
| 42 T | Bromodichloromethane        | 0.581 | 0.606  | -4.3  | 101   | 0.00     |
| 43   | Methyl Methacrylate         | 0.260 | 0.299  | -15.0 | 102   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.255 | 1.287  | -2.5  | 101   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.238 | 0.293  | -23.1 | 102   | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.341 | 0.398  | -16.7 | 102   | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.317 | 0.314  | 0.9   | 101   | 0.00     |
| 48 T | Dibromochloromethane        | 0.482 | 0.517  | -7.3  | 99    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112124\  
 Data File : VL041711.D  
 Acq On : 21 Nov 2024 8:50  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Nov 22 01:01:27 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 22 01:00:55 2024  
 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                 | 0.412 | 0.457 | -10.9  | 98    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.764 | 0.825 | -8.0   | 101   | 0.00     |
| 51 T | 2-Hexanone                | 0.557 | 0.638 | -14.5  | 100   | 0.00     |
| 52 T | Tetrachloroethene         | 0.252 | 0.281 | -11.5  | 100   | 0.00     |
| 53 T | Toluene                   | 0.779 | 0.882 | -13.2  | 102   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.370 | 0.425 | -14.9  | 101   | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 90    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.412 | 0.418 | -1.5   | 99    | 0.00     |
| 57 T | Chlorobenzene             | 0.740 | 0.735 | 0.7    | 98    | 0.00     |
| 58 T | Ethyl Benzene             | 1.096 | 1.271 | -16.0  | 100   | 0.00     |
| 59 T | m/p-Xylene                | 0.982 | 1.078 | -9.8   | 100   | 0.00     |
| 60 T | o-Xylene                  | 0.936 | 1.037 | -10.8  | 99    | 0.00     |
| 61 T | Styrene                   | 0.386 | 0.500 | -29.5  | 99    | 0.00     |
| 62   | Isopropylbenzene          | 1.446 | 1.530 | -5.8   | 99    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.689 | 0.719 | -4.4   | 98    | 0.00     |
| 64   | n-propylbenzene           | 0.378 | 0.415 | -9.8   | 99    | 0.00     |
| 65   | tert-Butylbenzene         | 1.299 | 1.366 | -5.2   | 98    | 0.00     |
| 66 T | Benzyl Chloride           | 0.100 | 0.120 | -20.0  | 100   | 0.00     |
| 67   | sec-Butylbenzene          | 1.831 | 1.925 | -5.1   | 98    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.737 | 0.753 | -2.2   | 95    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.481 | 1.606 | -8.4   | 98    | 0.00     |
| 70   | n-Butylbenzene            | 1.515 | 1.656 | -9.3   | 99    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.045 | 1.163 | -11.3  | 99    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.088 | 1.247 | -14.6  | 99    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 0.955 | 1.062 | -11.2  | 99    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.109 | 1.174 | -5.9   | 99    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.687 | 0.723 | -5.2   | 99    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.663 | 0.699 | -5.4   | 98    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.681 | 0.704 | -3.4   | 99    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.538 | 0.486 | 9.7    | 102   | 0.00     |
| 79 T | Naphthalene               | 0.685 | 0.985 | -43.8# | 107   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.149 | 0.210 | -40.9# | 135   | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.431 | 0.501 | -16.2  | 106   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



# QC SAMPLE DATA

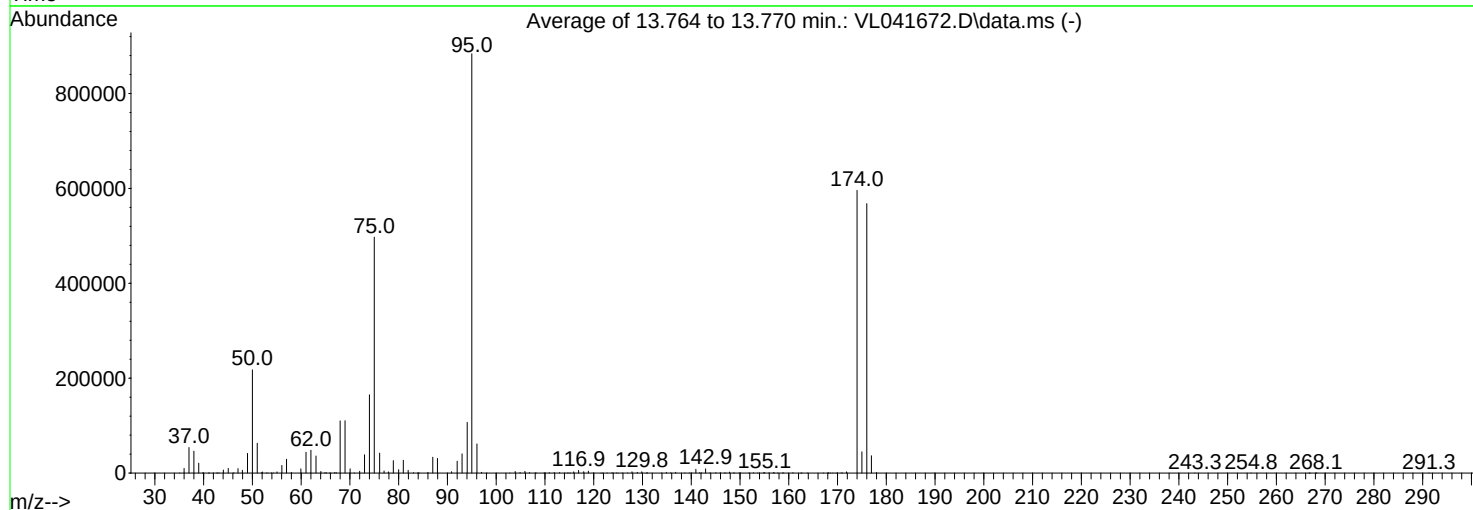
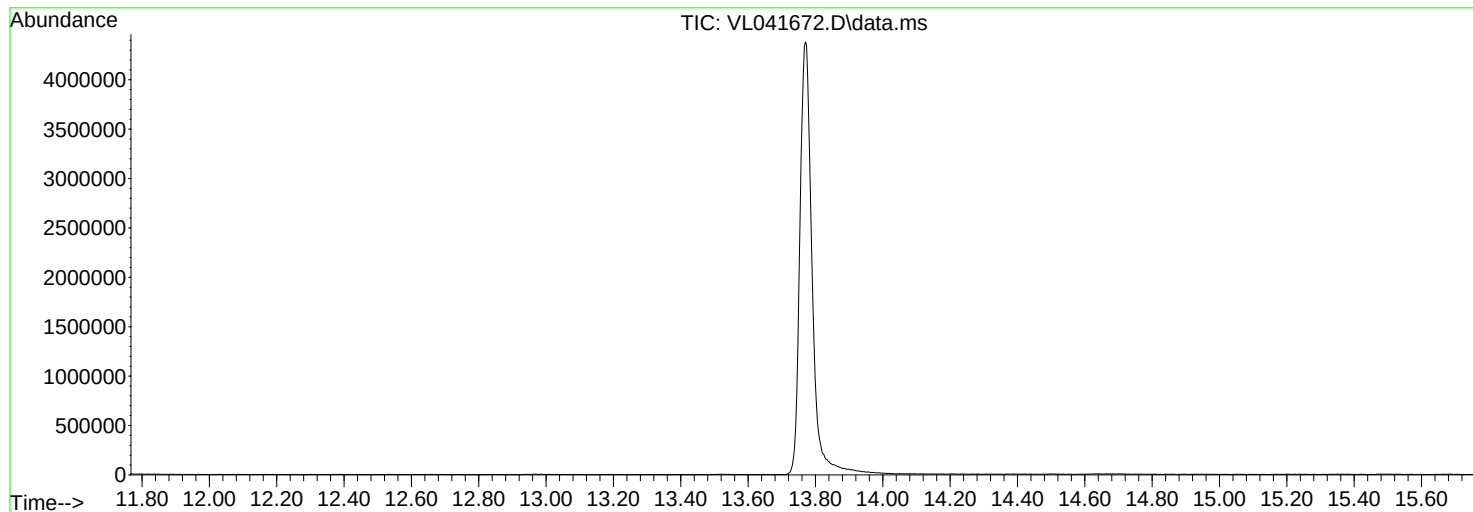
- 1
- 2
- 3
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- 14
- 15
- 16

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
Data File : VL041672.D  
Acq On : 7 Nov 2024 8:58  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Fri Nov 08 01:01:00 2024



AutoFind: Scans 3471, 3472, 3473; Background Corrected with Scan 3447

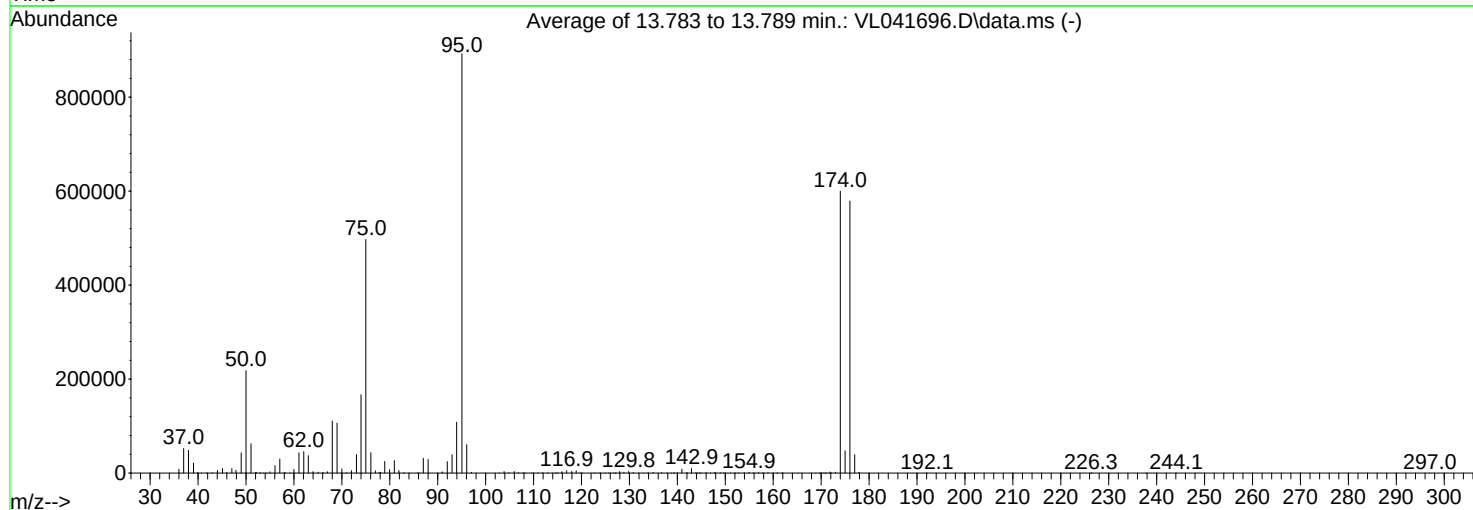
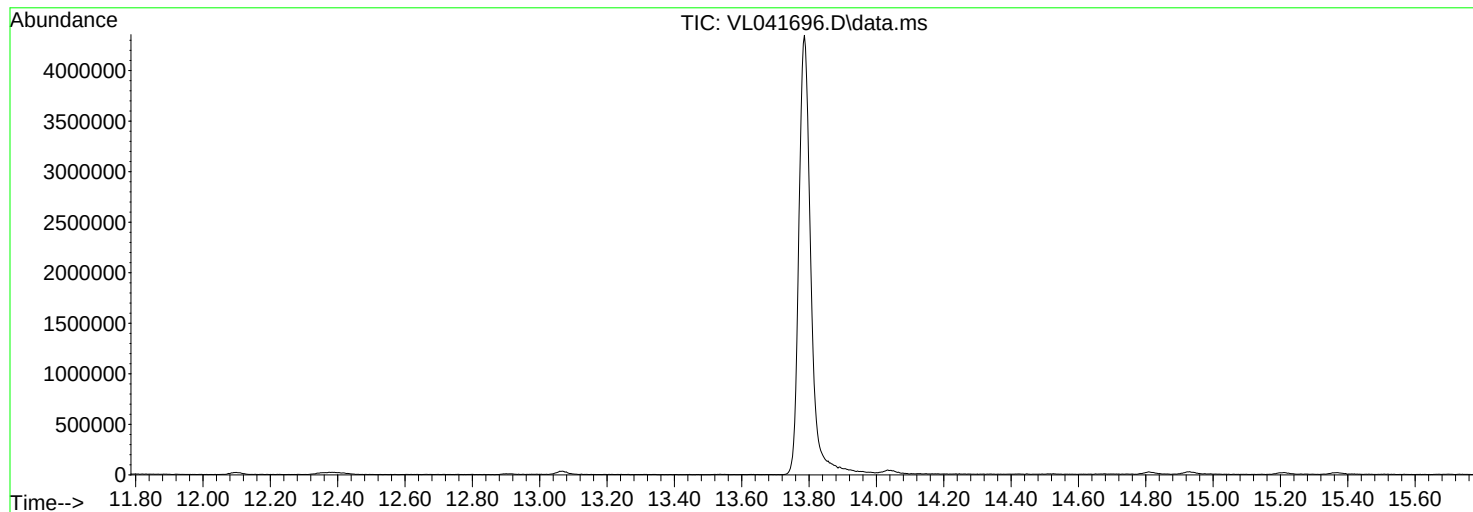
| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 8               | 40              | 24.6         | 217600     | PASS                |
| 75             | 95              | 30              | 66              | 56.3         | 497408     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 883883     | PASS                |
| 96             | 95              | 5               | 9               | 7.0          | 61491      | PASS                |
| 173            | 174             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 174            | 95              | 50              | 120             | 67.4         | 595968     | PASS                |
| 175            | 174             | 4               | 9               | 7.5          | 44800      | PASS                |
| 176            | 174             | 93              | 101             | 95.3         | 567979     | PASS                |
| 177            | 176             | 5               | 9               | 6.4          | 36571      | PASS                |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112024\  
Data File : VL041696.D  
Acq On : 20 Nov 2024 7:31  
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\VL110724AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Fri Nov 08 01:01:00 2024



AutoFind: Scans 3477, 3478, 3479; Background Corrected with Scan 3453

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 8               | 40              | 24.4         | 217813     | PASS                |
| 75             | 95              | 30              | 66              | 55.7         | 497237     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 892416     | PASS                |
| 96             | 95              | 5               | 9               | 6.8          | 60592      | PASS                |
| 173            | 174             | 0.00            | 2               | 0.3          | 1835       | PASS                |
| 174            | 95              | 50              | 120             | 67.2         | 600000     | PASS                |
| 175            | 174             | 4               | 9               | 7.9          | 47296      | PASS                |
| 176            | 174             | 93              | 101             | 96.5         | 578859     | PASS                |
| 177            | 176             | 5               | 9               | 6.8          | 39176      | PASS                |

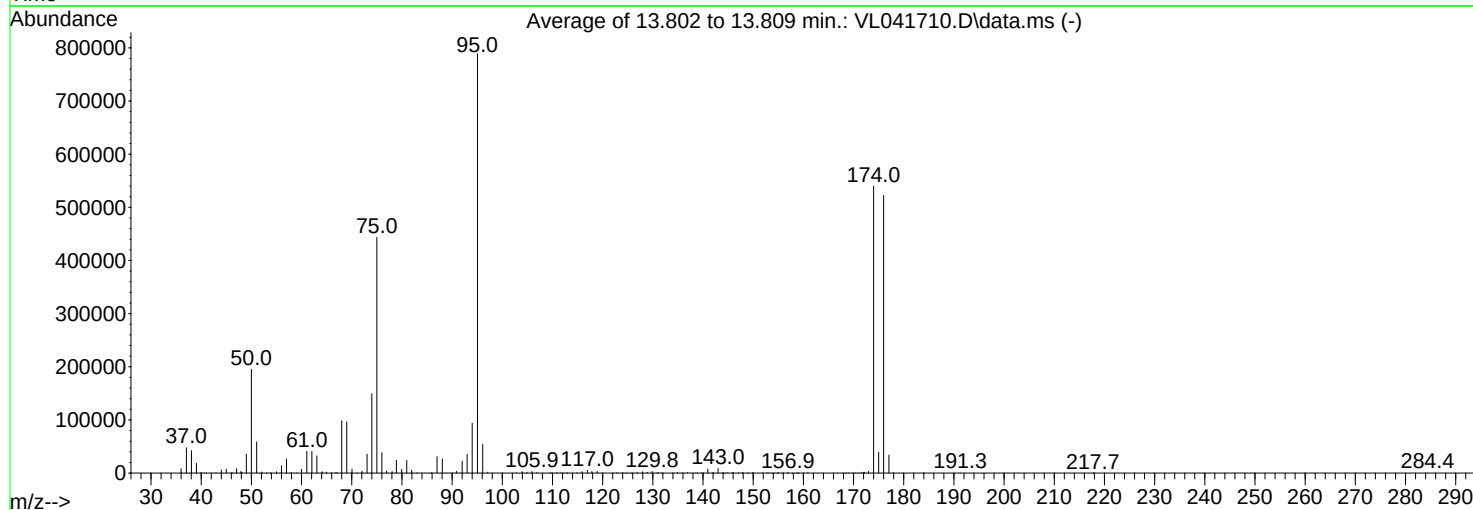
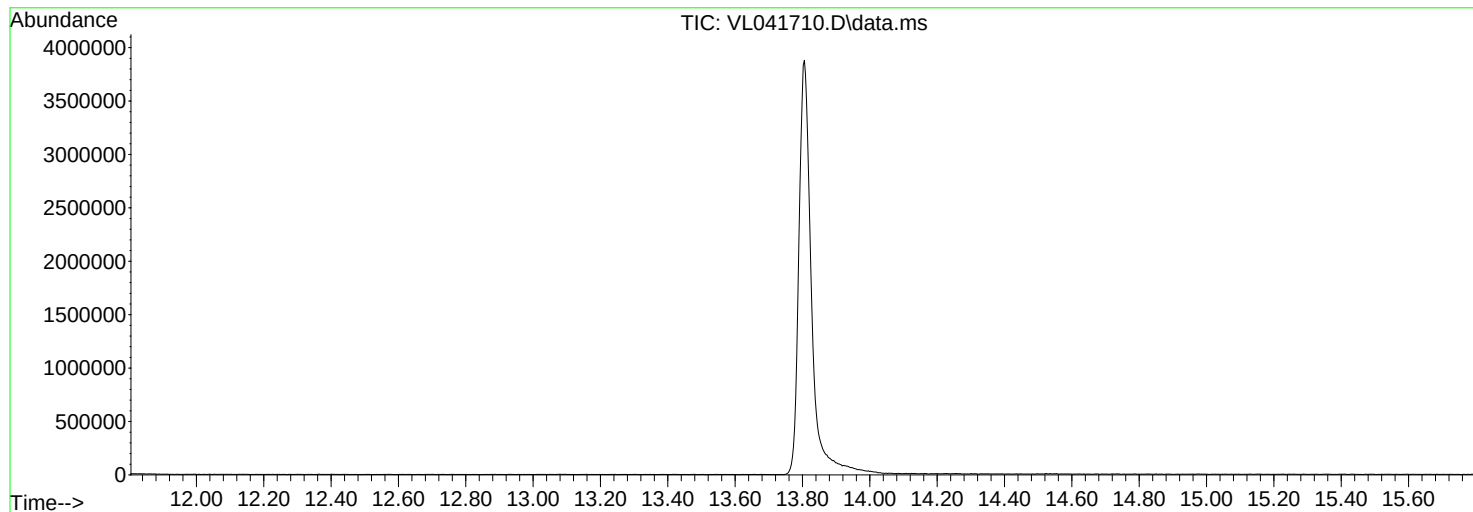


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112124\  
Data File : VL041710.D  
Acq On : 21 Nov 2024 8:12  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Fri Nov 22 01:00:55 2024



AutoFind: Scans 3483, 3484, 3485; Background Corrected with Scan 3453

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 8               | 40              | 24.7         | 195264     | PASS                |
| 75             | 95              | 30              | 66              | 56.2         | 443477     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 788992     | PASS                |
| 96             | 95              | 5               | 9               | 6.9          | 54053      | PASS                |
| 173            | 174             | 0.00            | 2               | 0.6          | 3163       | PASS                |
| 174            | 95              | 50              | 120             | 68.4         | 539733     | PASS                |
| 175            | 174             | 4               | 9               | 7.3          | 39331      | PASS                |
| 176            | 174             | 93              | 101             | 96.8         | 522347     | PASS                |
| 177            | 176             | 5               | 9               | 6.5          | 33968      | PASS                |

## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: |              |
| Project:           | NJ Air PT                 | Date Received:  |              |
| Client Sample ID:  | VL1120ABL01               | SDG No.:        | P4633        |
| Lab Sample ID:     | VL1120ABL01               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400 Units: mL             |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041698.D        | 1         |           | 11/20/24 12:36 | VL112024      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-45-6        | Chlorodifluoromethane          | 0.090         | 0.32           | U         | 0.32  | 1.77       | ug/m3 |
| 75-71-8        | Dichlorodifluoromethane        | 0.21          | 1.04           | U         | 1.04  | 2.47       | ug/m3 |
| 64-17-5        | Ethanol                        | 0.32          | 0.60           | U         | 0.60  | 0.94       | 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 |
| 141-78-6       | Ethyl Acetate                  | 0.080         | 0.32           | U         | 0.32  | 1.98       | 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 |
| 593-60-2       | Bromoethene                    | 0.12          | 0.52           | U         | 0.52  | 2.19       | ug/m3 |
| 115-07-1       | Propene                        | 0.15          | 0.26           | U         | 0.26  | 0.86       | 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 |
| 67-63-0        | Isopropyl Alcohol              | 0.070         | 0.17           | U         | 0.17  | 1.23       | 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 |
| 108-05-4       | Vinyl Acetate                  | 0.16          | 0.58           | U         | 0.58  | 1.80       | 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 |

## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: |              |
| Project:           | NJ Air PT                 | Date Received:  |              |
| Client Sample ID:  | VL1120ABL01               | SDG No.:        | P4633        |
| Lab Sample ID:     | VL1120ABL01               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400 Units: mL             |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041698.D        | 1         |           | 11/20/24 12:36 | VL112024      |

| CAS Number  | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|-------------|---------------------------|---------------|----------------|-----------|-------|------------|-------|
| 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 |
| 591-78-6    | 2-Hexanone                | 0.080         | 0.33           | U         | 0.33  | 2.04       | ug/m3 |
| 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 |
| 1330-20-7   | Total Xylenes             | 0.33          | 1.43           | U         | 1.43  | 6.52       | 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 |
| 98-82-8     | Isopropylbenzene          | 0.090         | 0.44           | U         | 0.44  | 2.46       | 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 |
| 100-44-7    | Benzyl Chloride           | 0.18          | 0.93           | U         | 0.93  | 2.59       | ug/m3 |
| 80-62-6     | Methyl Methacrylate       | 0.090         | 0.37           | U         | 0.37  | 2.05       | ug/m3 |

## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: |              |
| Project:           | NJ Air PT                 | Date Received:  |              |
| Client Sample ID:  | VL1120ABL01               | SDG No.:        | P4633        |
| Lab Sample ID:     | VL1120ABL01               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400      Units:    mL     |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041698.D        | 1         |           | 11/20/24 12:36 | VL112024      |

| CAS Number                | Parameter               | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-------------------------|---------------|----------------|-----------|----------|------------|---------|
| <b>SURROGATES</b>         |                         |               |                |           |          |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene | 9.90          |                |           | 65 - 135 | 99%        | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                         |               |                |           |          |            |         |
| 74-97-5                   | Bromochloromethane      | 1070000       |                | 5.211     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene     | 3060000       |                | 6.671     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5        | 2650000       |                | 11.48     |          |            |         |

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\VL112024\  
Data File : VL041698.D  
Acq On : 20 Nov 2024 12:36  
Operator : SY/MD  
Sample : VL1120ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABL01

Quant Time: Nov 21 05:08:54 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 01:01:00 2024  
Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.211  | 49   | 1071128  | 10.000 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 6.671  | 114  | 3057945  | 10.000 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 11.484 | 117  | 2649975  | 10.000 | ppbv  | 0.02     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 13.793 | 95    | 1932714  | 9.899    | ppbv | 0.02    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.000% |

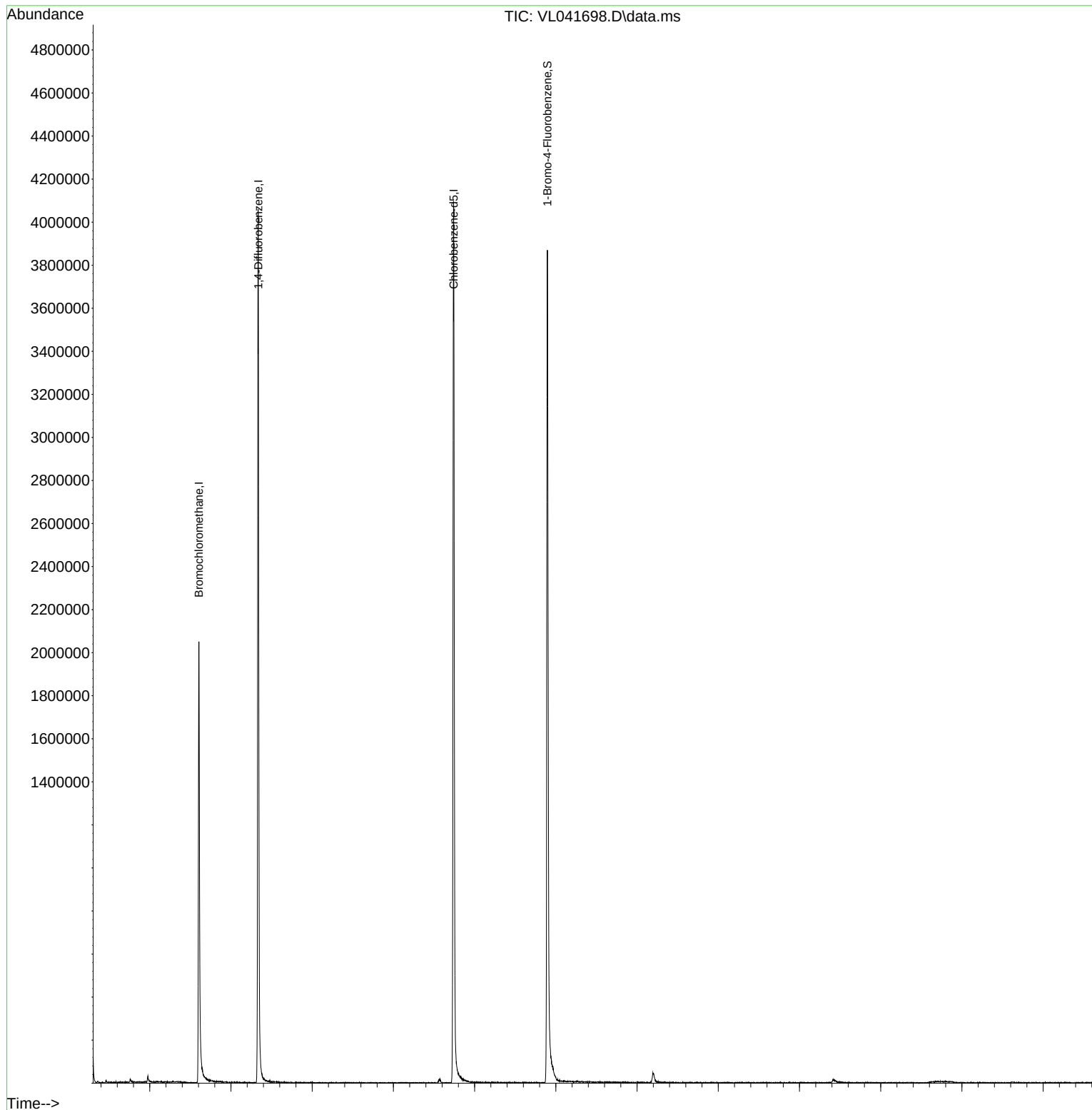
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

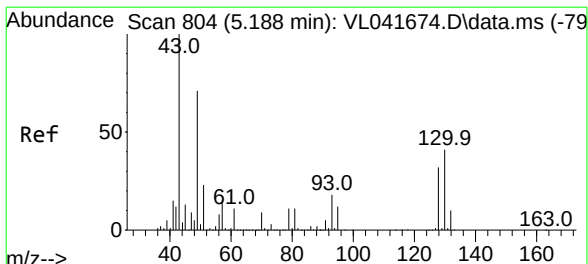
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112024\  
Data File : VL041698.D  
Acq On : 20 Nov 2024 12:36  
Operator : SY/MD  
Sample : VL1120ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABL01

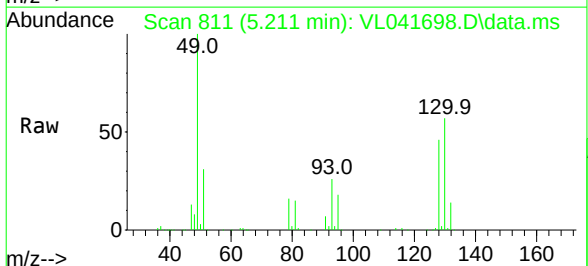
Quant Time: Nov 21 05:08:54 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 01:01:00 2024  
Response via : Initial Calibration





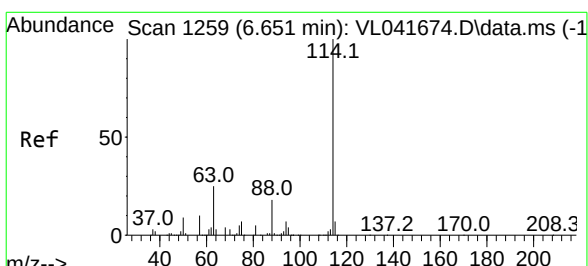
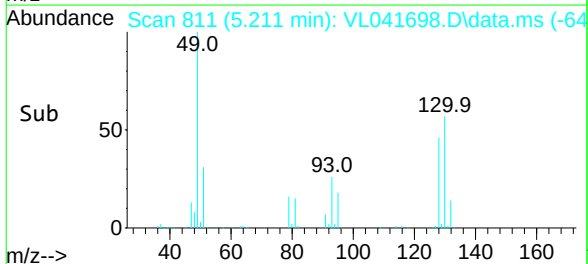
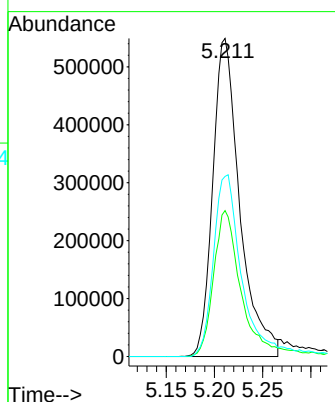
#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.211 min Scan# 81  
 Delta R.T. 0.023 min  
 Lab File: VL041698.D  
 Acq: 20 Nov 2024 12:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1120ABL01



Tgt Ion: 49 Resp: 1071128

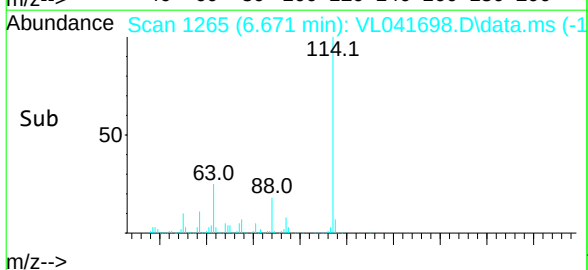
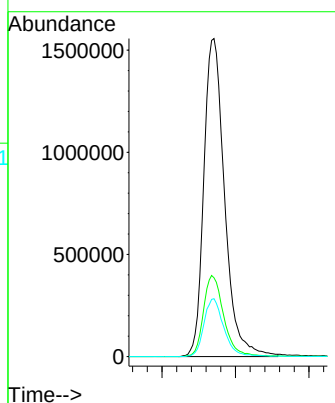
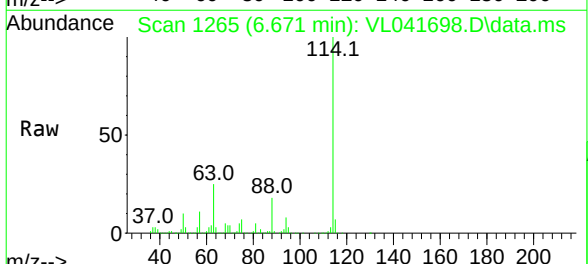
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 48.6  | 23.8  | 71.2  |
| 130 | 62.6  | 30.1  | 90.5  |

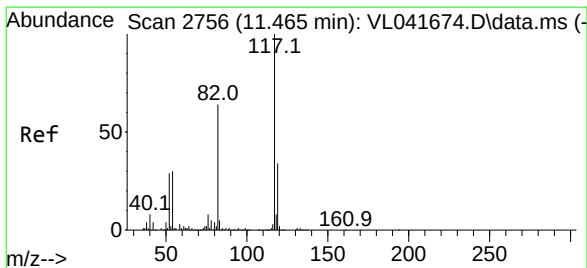


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 6.671 min Scan# 1265  
 Delta R.T. 0.019 min  
 Lab File: VL041698.D  
 Acq: 20 Nov 2024 12:36

Tgt Ion: 114 Resp: 3057945

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 25.2  | 20.3  | 30.5  |
| 88  | 17.6  | 14.2  | 21.4  |





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.484 min Scan# 27

Delta R.T. 0.019 min

Lab File: VL041698.D

Acq: 20 Nov 2024 12:36

Instrument :

MSVOA\_1

ClientSampleId :

VL1120ABL01

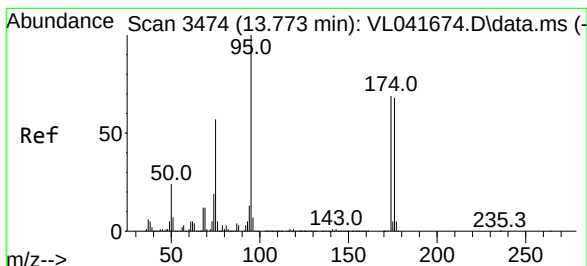
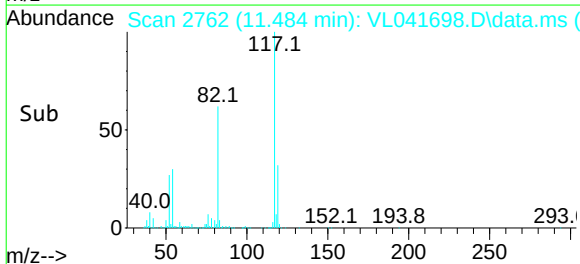
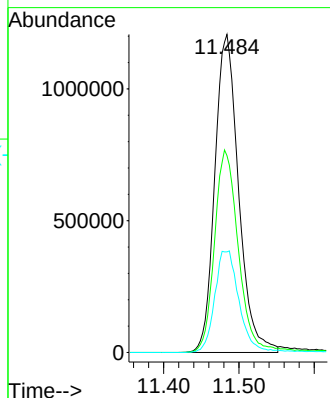
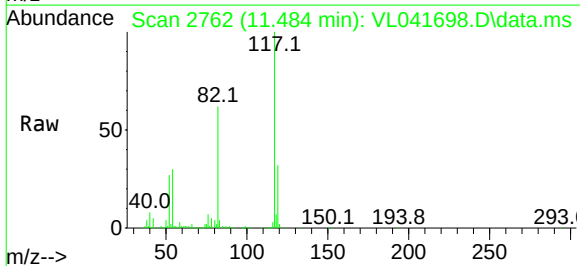
Tgt Ion:117 Resp: 2649975

Ion Ratio Lower Upper

117 100

82 65.2 49.8 74.8

119 33.5 24.2 36.4



#68

1-Bromo-4-Fluorobenzene

Concen: 9.899 ppbv

RT: 13.793 min Scan# 3480

Delta R.T. 0.019 min

Lab File: VL041698.D

Acq: 20 Nov 2024 12:36

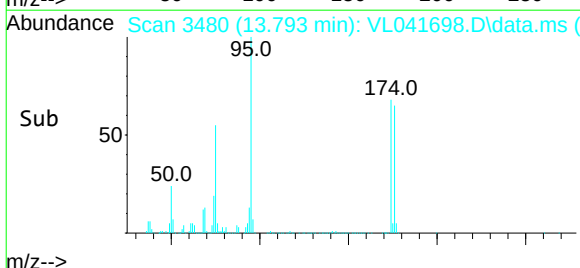
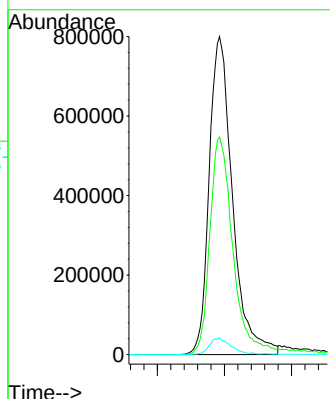
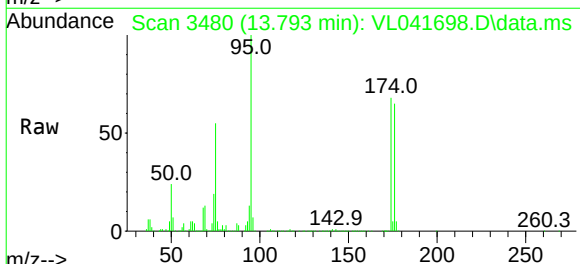
Tgt Ion: 95 Resp: 1932714

Ion Ratio Lower Upper

95 100

174 70.1 55.6 83.4

175 5.0 4.2 6.2





## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: |              |
| Project:           | NJ Air PT                 | Date Received:  |              |
| Client Sample ID:  | VL1121ABL01               | SDG No.:        | P4633        |
| Lab Sample ID:     | VL1121ABL01               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400 Units: mL             |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041712.D        | 1         |           | 11/21/24 09:38 | VL112124      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-45-6        | Chlorodifluoromethane          | 0.090         | 0.32           | U         | 0.32  | 1.77       | ug/m3 |
| 75-71-8        | Dichlorodifluoromethane        | 0.21          | 1.04           | U         | 1.04  | 2.47       | ug/m3 |
| 64-17-5        | Ethanol                        | 0.32          | 0.60           | U         | 0.60  | 0.94       | 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 |
| 141-78-6       | Ethyl Acetate                  | 0.080         | 0.32           | U         | 0.32  | 1.98       | 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 |
| 593-60-2       | Bromoethene                    | 0.12          | 0.52           | U         | 0.52  | 2.19       | ug/m3 |
| 115-07-1       | Propene                        | 0.15          | 0.26           | U         | 0.26  | 0.86       | 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 |
| 67-63-0        | Isopropyl Alcohol              | 0.070         | 0.17           | U         | 0.17  | 1.23       | 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 |
| 108-05-4       | Vinyl Acetate                  | 0.16          | 0.58           | U         | 0.58  | 1.80       | 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 |

## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: |              |
| Project:           | NJ Air PT                 | Date Received:  |              |
| Client Sample ID:  | VL1121ABL01               | SDG No.:        | P4633        |
| Lab Sample ID:     | VL1121ABL01               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400 Units: mL             |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041712.D        | 1         |           | 11/21/24 09:38 | VL112124      |

| CAS Number  | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|-------------|---------------------------|---------------|----------------|-----------|-------|------------|-------|
| 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 |
| 591-78-6    | 2-Hexanone                | 0.080         | 0.33           | U         | 0.33  | 2.04       | ug/m3 |
| 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 |
| 1330-20-7   | Total Xylenes             | 0.33          | 1.43           | U         | 1.43  | 6.52       | 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 |
| 98-82-8     | Isopropylbenzene          | 0.090         | 0.44           | U         | 0.44  | 2.46       | 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 |
| 100-44-7    | Benzyl Chloride           | 0.18          | 0.93           | U         | 0.93  | 2.59       | ug/m3 |
| 80-62-6     | Methyl Methacrylate       | 0.090         | 0.37           | U         | 0.37  | 2.05       | ug/m3 |

## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: |              |
| Project:           | NJ Air PT                 | Date Received:  |              |
| Client Sample ID:  | VL1121ABL01               | SDG No.:        | P4633        |
| Lab Sample ID:     | VL1121ABL01               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400                       | Units:          | mL           |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041712.D        | 1         |           | 11/21/24 09:38 | VL112124      |

| CAS Number                | Parameter               | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-------------------------|---------------|----------------|-----------|----------|------------|---------|
| <b>SURROGATES</b>         |                         |               |                |           |          |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene | 9.80          |                |           | 65 - 135 | 98%        | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                         |               |                |           |          |            |         |
| 74-97-5                   | Bromochloromethane      | 1170000       |                | 5.221     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene     | 3180000       |                | 6.68      |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5        | 2720000       |                | 11.49     |          |            |         |

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\VL112124\  
Data File : VL041712.D  
Acq On : 21 Nov 2024 9:38  
Operator : SY/MD  
Sample : VL1121ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABL01

Quant Time: Nov 22 01:06:37 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 22 01:00:55 2024  
Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.221  | 49   | 1172035  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.680  | 114  | 3184705  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.497 | 117  | 2717854  | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 13.809 | 95    | 1960450  | 9.790    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.900% |

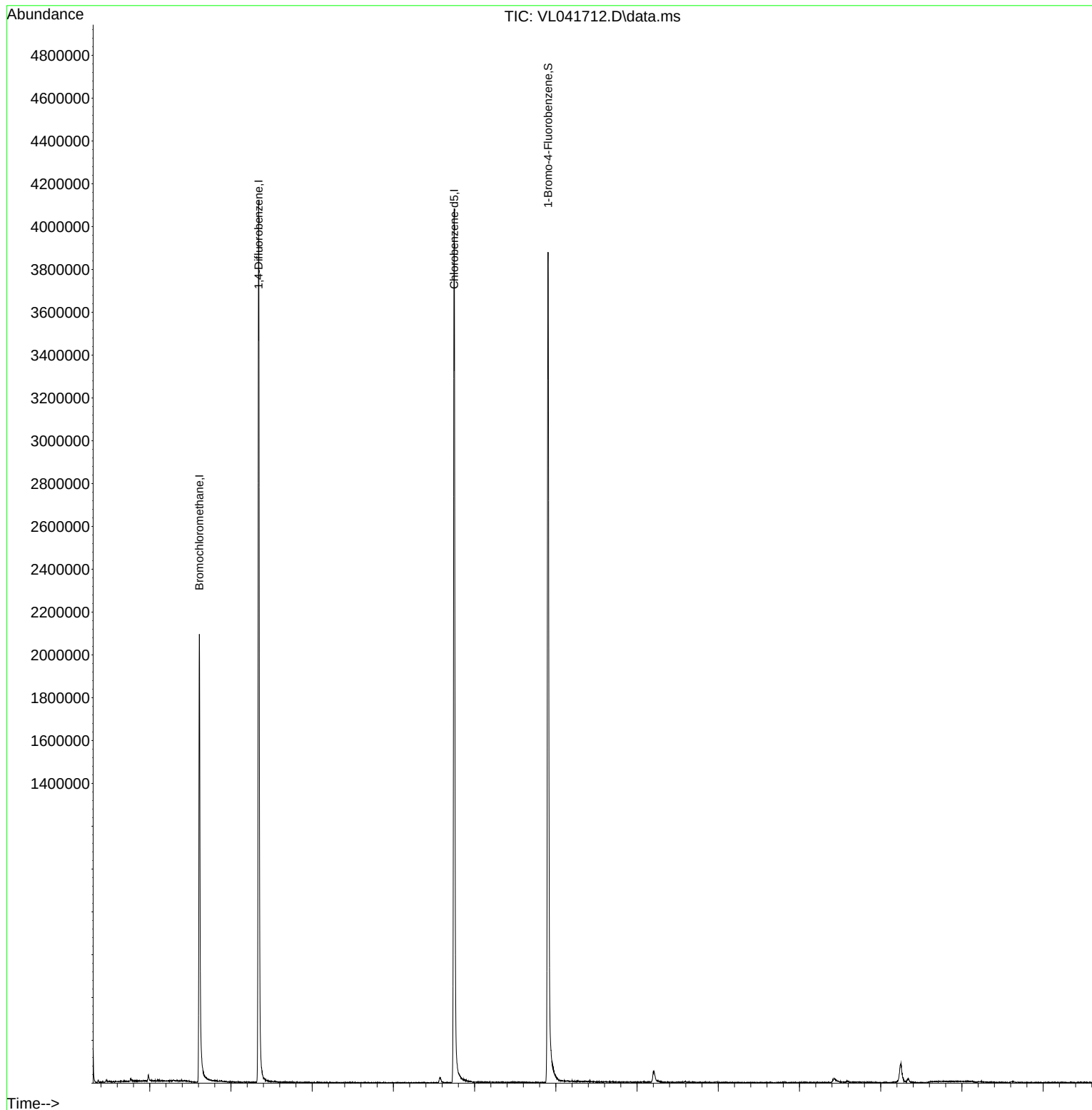
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

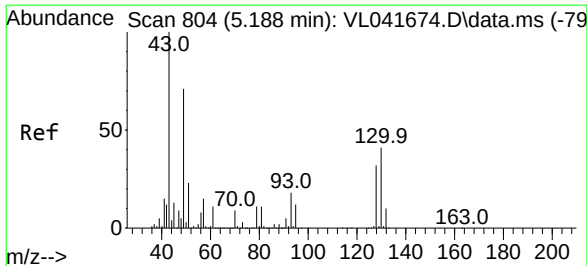
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112124\  
Data File : VL041712.D  
Acq On : 21 Nov 2024 9:38  
Operator : SY/MD  
Sample : VL1121ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABL01

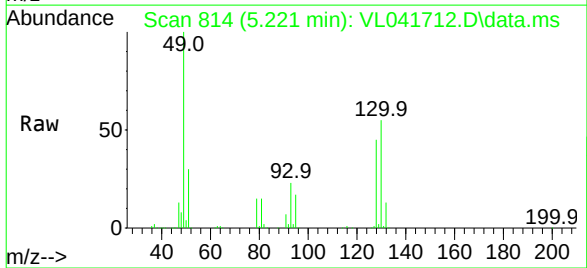
Quant Time: Nov 22 01:06:37 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 22 01:00:55 2024  
Response via : Initial Calibration



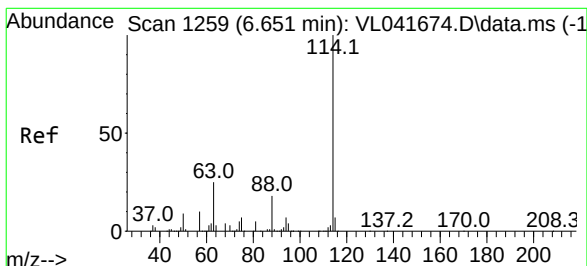
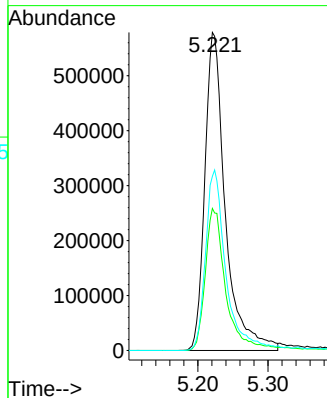
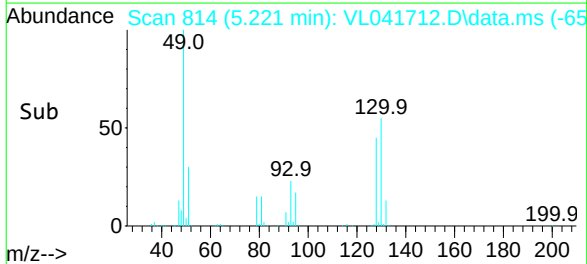


#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.221 min Scan# 814  
Delta R.T. -0.000 min  
Lab File: VL041712.D  
Acq: 21 Nov 2024 9:38

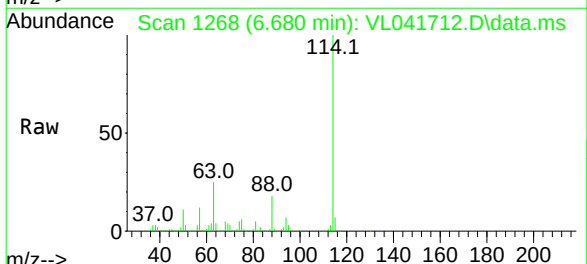
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABL01



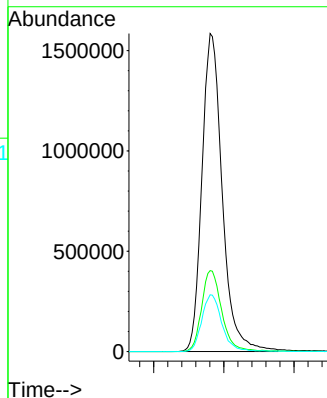
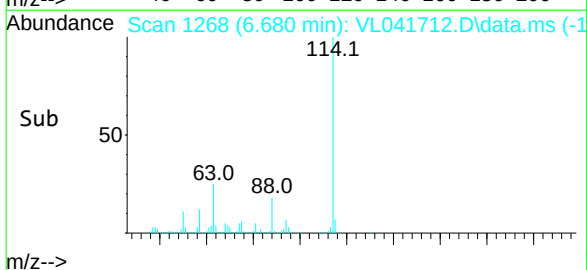
Tgt Ion: 49 Resp: 1172035  
Ion Ratio Lower Upper  
49 100  
128 46.0 23.8 71.2  
130 58.7 30.1 90.5

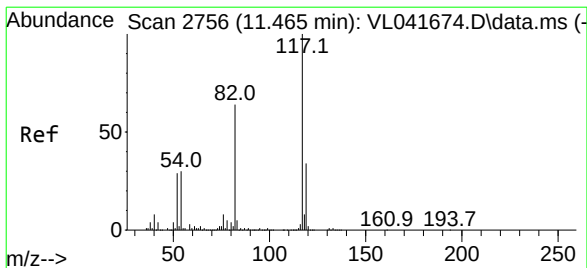


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.680 min Scan# 1268  
Delta R.T. -0.003 min  
Lab File: VL041712.D  
Acq: 21 Nov 2024 9:38



Tgt Ion: 114 Resp: 3184705  
Ion Ratio Lower Upper  
114 100  
63 25.5 20.3 30.5  
88 17.9 14.2 21.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.497 min Scan# 27

Delta R.T. -0.000 min

Lab File: VL041712.D

Acq: 21 Nov 2024 9:38

Instrument :

MSVOA\_L

ClientSampleId :

VL1121ABL01

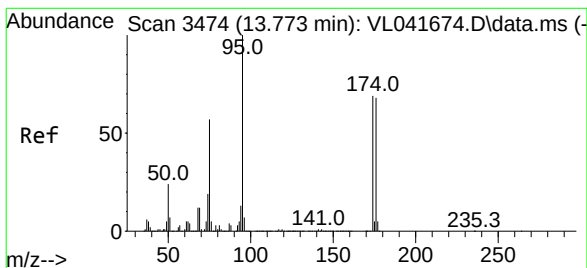
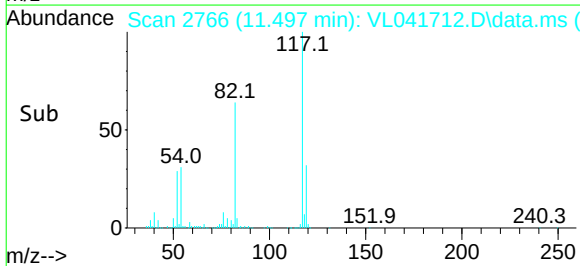
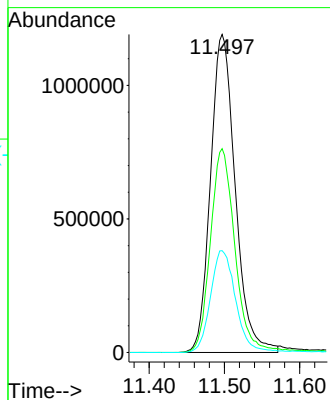
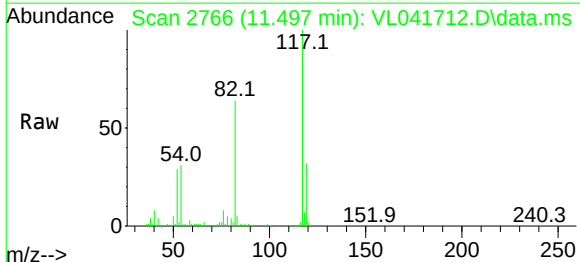
Tgt Ion:117 Resp: 2717854

Ion Ratio Lower Upper

117 100

82 65.0 49.8 74.8

119 33.4 24.2 36.4



#68

1-Bromo-4-Fluorobenzene

Concen: 9.790 ppbv

RT: 13.809 min Scan# 3485

Delta R.T. 0.003 min

Lab File: VL041712.D

Acq: 21 Nov 2024 9:38

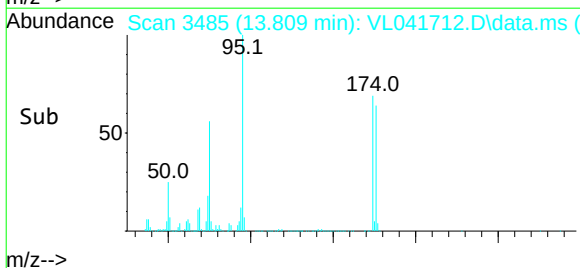
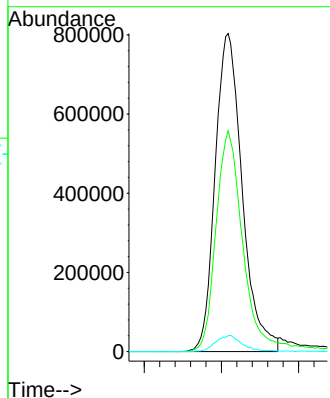
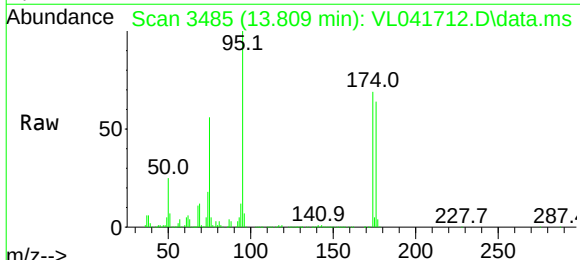
Tgt Ion: 95 Resp: 1960450

Ion Ratio Lower Upper

95 100

174 69.5 55.6 83.4

175 5.2 4.2 6.2



## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: |              |
| Project:           | NJ Air PT                 | Date Received:  |              |
| Client Sample ID:  | VL1120ABS01               | SDG No.:        | P4633        |
| Lab Sample ID:     | VL1120ABS01               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400 Units: mL             |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041699.D        | 1         |           | 11/20/24 13:15 | VL112024      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-45-6        | Chlorodifluoromethane          | 8.90          | 31.5           |           | 0.32  | 1.77       | ug/m3 |
| 75-71-8        | Dichlorodifluoromethane        | 7.30          | 36.1           |           | 1.04  | 2.47       | ug/m3 |
| 64-17-5        | Ethanol                        | 8.90          | 16.8           |           | 0.60  | 0.94       | ug/m3 |
| 74-87-3        | Chloromethane                  | 9.30          | 19.2           |           | 0.21  | 1.03       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 10.0          | 25.6           |           | 0.030 | 0.080      | ug/m3 |
| 141-78-6       | Ethyl Acetate                  | 9.50          | 37.7           |           | 0.32  | 1.98       | ug/m3 |
| 74-83-9        | Bromomethane                   | 9.50          | 36.9           |           | 0.54  | 1.94       | ug/m3 |
| 75-00-3        | Chloroethane                   | 9.20          | 24.3           |           | 0.45  | 1.32       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 10.3          | 30.4           |           | 0.38  | 1.47       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 9.40          | 52.8           |           | 0.90  | 2.81       | ug/m3 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 9.40          | 72.0           |           | 1.23  | 3.83       | ug/m3 |
| 76-14-2        | Dichlorotetrafluoroethane      | 9.00          | 62.9           |           | 0.63  | 3.49       | ug/m3 |
| 593-60-2       | Bromoethene                    | 9.40          | 41.1           |           | 0.52  | 2.19       | ug/m3 |
| 115-07-1       | Propene                        | 9.00          | 15.5           |           | 0.26  | 0.86       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 9.50          | 28.8           |           | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 10.3          | 42.2           |           | 0.45  | 2.05       | ug/m3 |
| 67-63-0        | Isopropyl Alcohol              | 9.10          | 22.4           |           | 0.17  | 1.23       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 9.50          | 37.7           |           | 0.56  | 1.98       | ug/m3 |
| 67-64-1        | Acetone                        | 9.10          | 21.6           |           | 0.57  | 1.19       | ug/m3 |
| 75-15-0        | Carbon Disulfide               | 10.7          | 33.3           |           | 0.50  | 1.56       | ug/m3 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 8.80          | 31.7           |           | 0.43  | 1.80       | ug/m3 |
| 75-09-2        | Methylene Chloride             | 8.90          | 30.9           |           | 0.66  | 1.74       | ug/m3 |
| 156-60-5       | trans-1,2-Dichloroethene       | 9.50          | 37.7           |           | 0.75  | 1.98       | ug/m3 |
| 108-05-4       | Vinyl Acetate                  | 9.20          | 33.1           |           | 0.58  | 1.80       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 9.30          | 37.6           |           | 0.53  | 2.02       | ug/m3 |
| 110-82-7       | Cyclohexane                    | 9.80          | 33.7           |           | 0.76  | 1.72       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 9.30          | 27.4           |           | 0.35  | 1.47       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 10.7          | 67.3           |           | 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                     | 9.40          | 45.9           |           | 0.39  | 2.44       | ug/m3 |
| 71-55-6        | 1,1,1-Trichloroethane          | 10.1          | 55.1           |           | 0.050 | 0.16       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 10.0          | 46.7           |           | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 10.0          | 31.9           |           | 0.29  | 1.60       | ug/m3 |
| 107-06-2       | 1,2-Dichloroethane             | 9.70          | 39.3           |           | 0.36  | 2.02       | ug/m3 |
| 79-01-6        | Trichloroethene                | 10.6          | 57.0           |           | 0.11  | 0.16       | ug/m3 |



## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: |              |
| Project:           | NJ Air PT                 | Date Received:  |              |
| Client Sample ID:  | VL1120ABS01               | SDG No.:        | P4633        |
| Lab Sample ID:     | VL1120ABS01               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400 Units: mL             |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041699.D        | 1         |           | 11/20/24 13:15 | VL112024      |

| CAS Number  | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|-------------|---------------------------|---------------|----------------|-----------|-----|------------|-------|
| 78-87-5     | 1,2-Dichloropropane       | 9.80          | 45.3           | 0.51      |     | 2.31       | ug/m3 |
| 75-27-4     | Bromodichloromethane      | 10.2          | 68.3           | 0.54      |     | 3.35       | ug/m3 |
| 108-10-1    | 4-Methyl-2-Pentanone      | 10.5          | 43.0           | 0.37      |     | 2.05       | ug/m3 |
| 108-88-3    | Toluene                   | 11.0          | 41.5           | 0.41      |     | 1.88       | ug/m3 |
| 10061-02-6  | t-1,3-Dichloropropene     | 11.4          | 51.8           | 0.27      |     | 2.27       | ug/m3 |
| 10061-01-5  | cis-1,3-Dichloropropene   | 11.1          | 50.4           | 0.27      |     | 2.27       | ug/m3 |
| 79-00-5     | 1,1,2-Trichloroethane     | 9.80          | 53.5           | 0.38      |     | 2.73       | ug/m3 |
| 591-78-6    | 2-Hexanone                | 11.2          | 45.8           | 0.33      |     | 2.04       | ug/m3 |
| 124-48-1    | Dibromochloromethane      | 10.6          | 90.3           | 0.60      |     | 4.26       | ug/m3 |
| 106-93-4    | 1,2-Dibromoethane         | 11.2          | 86.1           | 0.54      |     | 0.77       | ug/m3 |
| 127-18-4    | Tetrachloroethene         | 10.9          | 73.9           | 0.14      |     | 0.20       | ug/m3 |
| 108-90-7    | Chlorobenzene             | 9.30          | 42.8           | 0.37      |     | 2.30       | ug/m3 |
| 100-41-4    | Ethyl Benzene             | 10.7          | 46.5           | 0.52      |     | 2.17       | ug/m3 |
| 179601-23-1 | m/p-Xylene                | 20.5          | 89.0           | 0.91      |     | 4.34       | ug/m3 |
| 1330-20-7   | Total Xylenes             | 30.8          | 134            | 1.43      |     | 6.52       | ug/m3 |
| 95-47-6     | o-Xylene                  | 10.3          | 44.7           | 0.52      |     | 2.17       | ug/m3 |
| 100-42-5    | Styrene                   | 12.0          | 51.1           | 0.47      |     | 2.13       | ug/m3 |
| 75-25-2     | Bromoform                 | 11.1          | 115            | 0.62      |     | 5.17       | ug/m3 |
| 98-82-8     | Isopropylbenzene          | 9.90          | 48.7           | 0.44      |     | 2.46       | ug/m3 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane | 9.80          | 67.3           | 0.070     |     | 0.21       | ug/m3 |
| 95-49-8     | 2-Chlorotoluene           | 10.4          | 53.9           | 0.57      |     | 2.59       | ug/m3 |
| 108-67-8    | 1,3,5-Trimethylbenzene    | 10.5          | 51.6           | 0.54      |     | 2.46       | ug/m3 |
| 95-63-6     | 1,2,4-Trimethylbenzene    | 10.0          | 49.2           | 0.39      |     | 2.46       | ug/m3 |
| 541-73-1    | 1,3-Dichlorobenzene       | 9.90          | 59.5           | 0.48      |     | 3.01       | ug/m3 |
| 106-46-7    | 1,4-Dichlorobenzene       | 9.90          | 59.5           | 0.30      |     | 3.01       | ug/m3 |
| 95-50-1     | 1,2-Dichlorobenzene       | 9.80          | 58.9           | 0.48      |     | 3.01       | ug/m3 |
| 120-82-1    | 1,2,4-Trichlorobenzene    | 10.5          | 77.9           | 0.67      |     | 3.71       | ug/m3 |
| 87-68-3     | Hexachloro-1,3-Butadiene  | 8.30          | 88.5           | 0.96      |     | 5.33       | ug/m3 |
| 106-99-0    | 1,3-Butadiene             | 9.90          | 21.9           | 0.29      |     | 1.11       | ug/m3 |
| 91-20-3     | Naphthalene               | 13.1          | 68.7           | 0.42      |     | 0.52       | ug/m3 |
| 622-96-8    | 4-Ethyltoluene            | 10.8          | 53.1           | 0.59      |     | 2.46       | ug/m3 |
| 110-54-3    | Hexane                    | 9.70          | 34.2           | 0.39      |     | 1.76       | ug/m3 |
| 107-05-1    | Allyl Chloride            | 9.90          | 31.0           | 0.47      |     | 1.57       | ug/m3 |
| 123-91-1    | 1,4-Dioxane               | 10.6          | 38.2           | 0.76      |     | 1.80       | ug/m3 |
| 100-44-7    | Benzyl Chloride           | 11.2          | 58.0           | 0.93      |     | 2.59       | ug/m3 |
| 80-62-6     | Methyl Methacrylate       | 10.9          | 44.6           | 0.37      |     | 2.05       | ug/m3 |

## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: |              |
| Project:           | NJ Air PT                 | Date Received:  |              |
| Client Sample ID:  | VL1120ABS01               | SDG No.:        | P4633        |
| Lab Sample ID:     | VL1120ABS01               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400                       | Units:          | mL           |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041699.D        | 1         |           | 11/20/24 13:15 | VL112024      |

| CAS Number                | Parameter               | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-------------------------|---------------|----------------|-----------|----------|------------|---------|
| <b>SURROGATES</b>         |                         |               |                |           |          |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene | 9.80          |                |           | 65 - 135 | 98%        | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                         |               |                |           |          |            |         |
| 74-97-5                   | Bromochloromethane      | 1160000       |                | 5.208     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene     | 3240000       |                | 6.671     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5        | 3240000       |                | 11.48     |          |            |         |

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\VL112024\  
 Data File : VL041699.D  
 Acq On : 20 Nov 2024 13:15  
 Operator : SY/MD  
 Sample : VL1120ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1120ABS01

Quant Time: Nov 21 05:09:19 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Nov 08 01:01:00 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/21/2024  
 Supervised By : Mahesh Dadoda 11/21/2024

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.208  | 49   | 1163679  | 10.000 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 6.671  | 114  | 3239097  | 10.000 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 11.484 | 117  | 3236609m | 10.000 | ppbv  | 0.02     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 13.793 | 95    | 2329378  | 9.768    | ppbv | 0.02    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.700% |

|                               |       |     |         |        |      |     |
|-------------------------------|-------|-----|---------|--------|------|-----|
| Target Compounds              |       |     |         | Qvalue |      |     |
| 2) Dichlorodifluoromethane    | 2.745 | 85  | 1526580 | 7.258  | ppbv | 99  |
| 3) Chlorodifluoromethane      | 2.687 | 51  | 1354532 | 8.934  | ppbv | 99  |
| 4) Chloromethane              | 2.829 | 50  | 744862  | 9.275  | ppbv | 96  |
| 5) Vinyl Chloride             | 2.935 | 62  | 719166  | 9.955  | ppbv | 100 |
| 6) Bromomethane               | 3.134 | 94  | 362376  | 9.456  | ppbv | 99  |
| 7) Chloroethane               | 3.211 | 64  | 242910  | 9.213  | ppbv | 99  |
| 8) Dichlorotetrafluoroethane  | 2.870 | 85  | 1692833 | 9.016  | ppbv | 99  |
| 9) Propene                    | 2.710 | 41  | 596424  | 9.028  | ppbv | 100 |
| 10) Heptane                   | 7.594 | 43  | 1524430 | 10.297 | ppbv | 99  |
| 11) Trichlorofluoromethane    | 3.578 | 101 | 1716777 | 9.371  | ppbv | 97  |
| 12) 1,1,2-Trichlorotrifluo... | 4.083 | 101 | 1253402 | 9.413  | ppbv | 99  |
| 13) Ethanol                   | 3.263 | 45  | 35922m  | 8.880  | ppbv |     |
| 14) Bromoethene               | 3.382 | 108 | 504396  | 9.423  | ppbv | 98  |
| 15) Acetone                   | 3.481 | 43  | 1306457 | 9.122  | ppbv | 100 |
| 16) 1,3-Butadiene             | 2.999 | 39  | 715603  | 9.903  | ppbv | 100 |
| 17) tert-Butyl alcohol        | 3.893 | 59  | 1194748 | 9.507  | ppbv | 99  |
| 18) 1,1-Dichloroethene        | 3.893 | 96  | 557361  | 9.544  | ppbv | 94  |
| 19) Isopropyl Alcohol         | 3.591 | 45  | 622976  | 9.101  | ppbv | 98  |
| 20) Methylene Chloride        | 3.947 | 84  | 468186  | 8.884  | ppbv | 97  |
| 21) Allyl Chloride            | 4.012 | 41  | 874140  | 9.878  | ppbv | 99  |
| 22) trans-1,2-Dichloroethene  | 4.462 | 96  | 552930  | 9.522  | ppbv | 96  |
| 23) Vinyl Acetate             | 4.642 | 43  | 578556  | 9.164  | ppbv | 99  |
| 24) 1,1-Dichloroethane        | 4.578 | 63  | 1200413 | 9.261  | ppbv | 99  |
| 25) Ethyl Acetate             | 5.221 | 43  | 2817969 | 9.506  | ppbv | 100 |
| 26) Hexane                    | 5.227 | 57  | 1108983 | 9.737  | ppbv | 99  |
| 27) Carbon Disulfide          | 4.140 | 76  | 1366173 | 10.677 | ppbv | 100 |
| 28) Methyl tert-Butyl Ether   | 4.600 | 73  | 647293  | 8.826  | ppbv | 99  |
| 29) Chloroform                | 5.291 | 83  | 1773915 | 9.436  | ppbv | 100 |
| 30) Cyclohexane               | 6.619 | 84  | 951807  | 9.815  | ppbv | 99  |
| 31) cis-1,2-Dichloroethene    | 5.095 | 61  | 1074877 | 9.810  | ppbv | 99  |
| 32) 1,1,1-Trichloroethane     | 6.018 | 97  | 1728793 | 10.080 | ppbv | 99  |
| 34) 2-Butanone                | 4.800 | 43  | 1501583 | 9.310  | ppbv | 99  |
| 35) Carbon Tetrachloride      | 6.510 | 117 | 1826480 | 10.688 | ppbv | 99  |
| 36) Benzene                   | 6.388 | 78  | 2387291 | 9.947  | ppbv | 99  |
| 37) 1,2-Dichloroethane        | 5.822 | 62  | 1319263 | 9.744  | ppbv | 99  |
| 38) Trichloroethene           | 7.307 | 130 | 980257  | 10.635 | ppbv | 99  |
| 39) 1,2-Dichloropropane       | 7.092 | 63  | 925581  | 9.759  | ppbv | 98  |
| 40) 1,4-Dioxane               | 7.301 | 88  | 360556  | 10.596 | ppbv | 99  |
| 41) Tetrahydrofuran           | 5.571 | 42  | 944780  | 10.257 | ppbv | 99  |
| 42) Bromodichloromethane      | 7.269 | 83  | 1909198 | 10.147 | ppbv | 99  |
| 43) Methyl Methacrylate       | 7.491 | 69  | 920452  | 10.923 | ppbv | 99  |
| 44) 2,2,4-Trimethylpentane    | 7.343 | 57  | 4048166 | 9.958  | ppbv | 100 |
| 45) t-1,3-Dichloropropene     | 8.729 | 75  | 880781  | 11.439 | ppbv | 97  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112024\  
 Data File : VL041699.D  
 Acq On : 20 Nov 2024 13:15  
 Operator : SY/MD  
 Sample : VL1120ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1120ABS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/21/2024  
 Supervised By : Mahesh Dadoda 11/21/2024

Quant Time: Nov 21 05:09:19 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

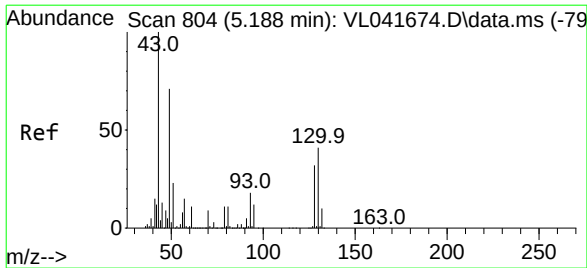
QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.160  | 75   | 1226432  | 11.089 | ppbv  | 97       |
| 47) 1,1,2-Trichloroethane     | 8.918  | 97   | 1003450  | 9.776  | ppbv  | 98       |
| 48) Dibromochloromethane      | 9.729  | 129  | 1658425  | 10.628 | ppbv  | 100      |
| 49) Bromoform                 | 12.423 | 173  | 1485005  | 11.123 | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.198  | 43   | 2593146  | 10.473 | ppbv  | 100      |
| 51) 2-Hexanone                | 9.568  | 43   | 2018735  | 11.196 | ppbv  | 99       |
| 52) Tetrachloroethene         | 10.632 | 164  | 887903   | 10.856 | ppbv  | 98       |
| 53) Toluene                   | 9.237  | 91   | 2780287  | 11.016 | ppbv  | 99       |
| 54) 1,2-Dibromoethane         | 10.028 | 107  | 1343883  | 11.206 | ppbv  | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.526 | 131  | 1272657  | 9.534  | ppbv  | 99       |
| 57) Chlorobenzene             | 11.542 | 112  | 2224042  | 9.291  | ppbv  | 98       |
| 58) Ethyl Benzene             | 12.105 | 91   | 3779084  | 10.650 | ppbv  | 99       |
| 59) m/p-Xylene                | 12.391 | 91   | 6496748m | 20.446 | ppbv  |          |
| 60) o-Xylene                  | 13.076 | 91   | 3111959  | 10.271 | ppbv  | 100      |
| 61) Styrene                   | 12.915 | 104  | 1503740  | 12.024 | ppbv  | 100      |
| 62) Isopropylbenzene          | 14.047 | 105  | 4628133  | 9.890  | ppbv  | 100      |
| 63) 1,1,1,2-Tetrachloroethane | 13.066 | 83   | 2179613  | 9.779  | ppbv  | 100      |
| 64) n-propylbenzene           | 14.931 | 120  | 1264315  | 10.321 | ppbv  | 99       |
| 65) tert-Butylbenzene         | 16.108 | 119  | 4185885  | 9.953  | ppbv  | 100      |
| 66) Benzyl Chloride           | 16.349 | 91   | 362387m  | 11.200 | ppbv  |          |
| 67) sec-Butylbenzene          | 16.651 | 105  | 5912468  | 9.974  | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.011 | 119  | 4955798  | 10.341 | ppbv  | 100      |
| 70) n-Butylbenzene            | 17.902 | 91   | 5094738  | 10.390 | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 14.818 | 91   | 3506297  | 10.366 | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 15.211 | 105  | 3790505  | 10.760 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.368 | 105  | 3243824  | 10.494 | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.124 | 105  | 3596562  | 10.016 | ppbv  | 99       |
| 75) 1,3-Dichlorobenzene       | 16.349 | 146  | 2210855  | 9.942  | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 16.490 | 146  | 2115126  | 9.858  | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.162 | 146  | 2154411  | 9.780  | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 22.651 | 225  | 1448199  | 8.312  | ppbv  | 100      |
| 79) Naphthalene               | 21.403 | 128  | 2907132  | 13.117 | ppbv  | 100      |
| 80) Naphthalene,2-methyl-     | 24.390 | 142  | 514199   | 10.643 | ppbv  | 93       |
| 81) 1,2,4-Trichlorobenzene    | 21.159 | 180  | 1465322  | 10.513 | ppbv  | 100      |

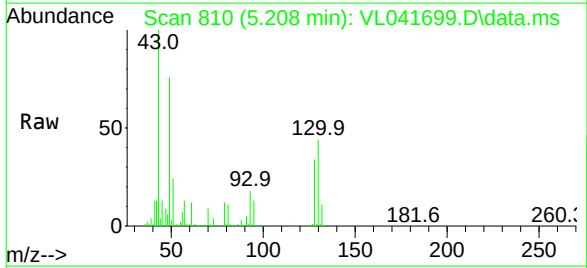
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.208 min Scan# 81  
Delta R.T. 0.020 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

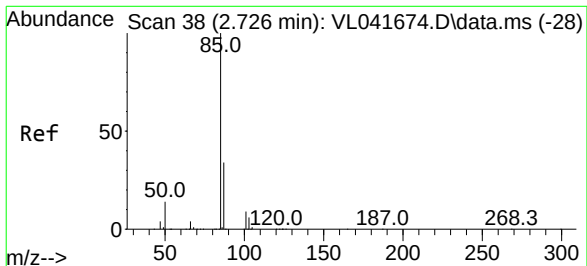
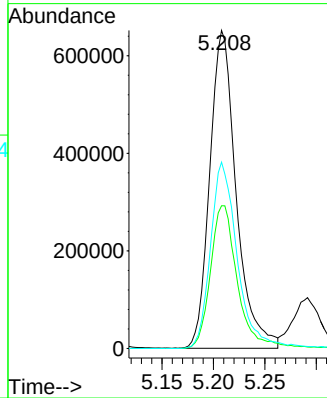
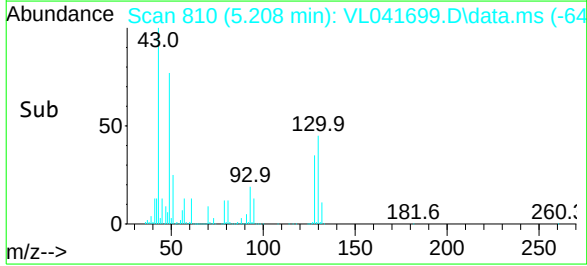
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



Tgt Ion: 49 Resp: 1163679  
Ion Ratio Lower Upper  
49 100  
128 46.8 23.8 71.2  
130 60.1 30.1 90.5

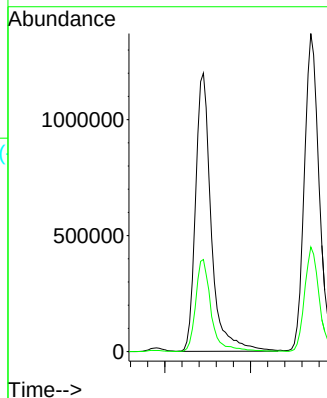
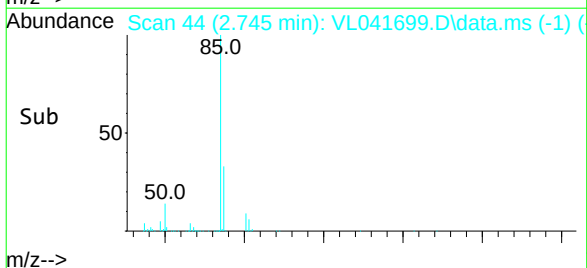
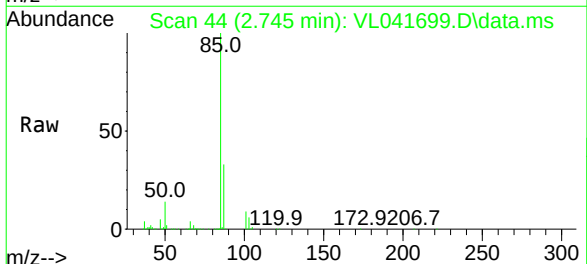
Manual Integrations  
APPROVED

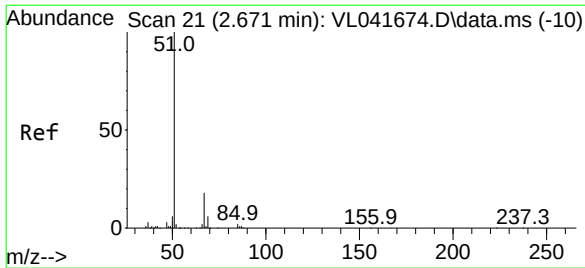
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#2  
Dichlorodifluoromethane  
Concen: 7.258 ppbv  
RT: 2.745 min Scan# 44  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 85 Resp: 1526580  
Ion Ratio Lower Upper  
85 100  
87 33.1 26.8 40.2





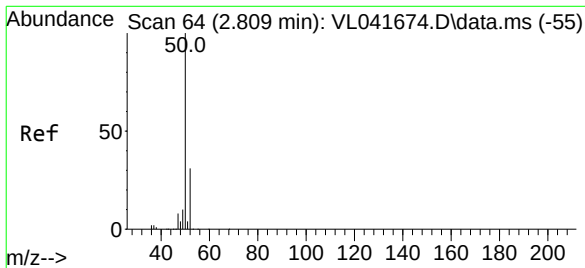
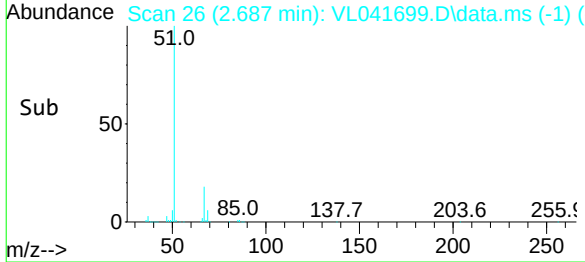
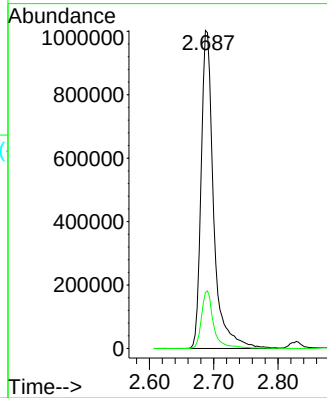
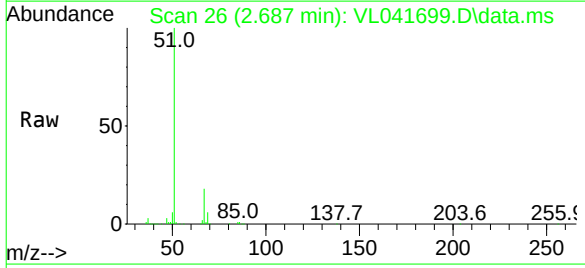
#3  
Chlorodifluoromethane  
Concen: 8.934 ppbv  
RT: 2.687 min Scan# 26  
Delta R.T. 0.016 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion: 51 Resp: 1354532  
Ion Ratio Lower Upper  
51 100  
67 17.7 13.9 20.9

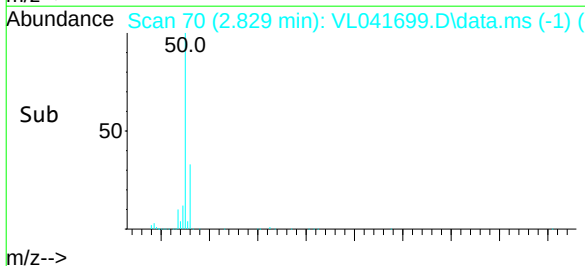
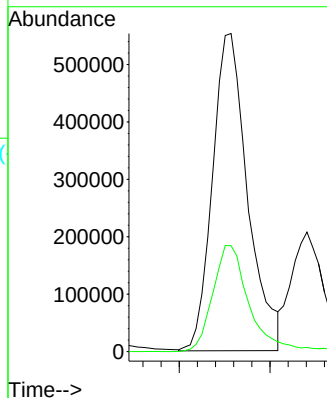
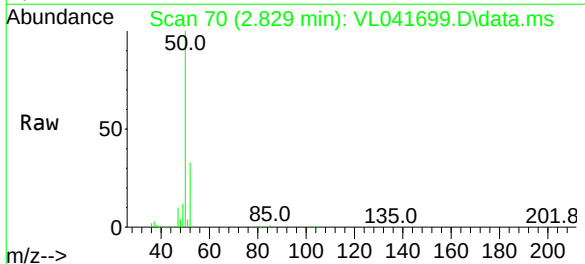
Manual Integrations  
APPROVED

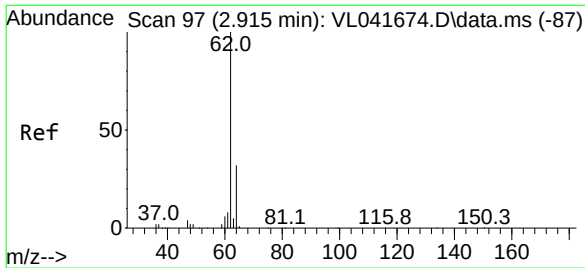
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#4  
Chloromethane  
Concen: 9.275 ppbv  
RT: 2.829 min Scan# 70  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 50 Resp: 744862  
Ion Ratio Lower Upper  
50 100  
52 33.4 24.9 37.3





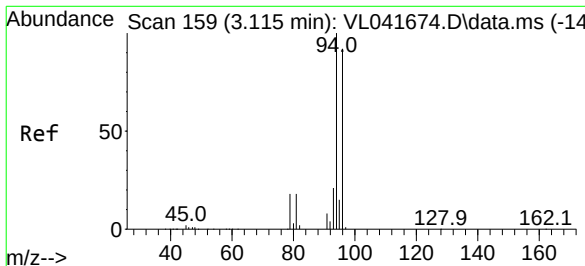
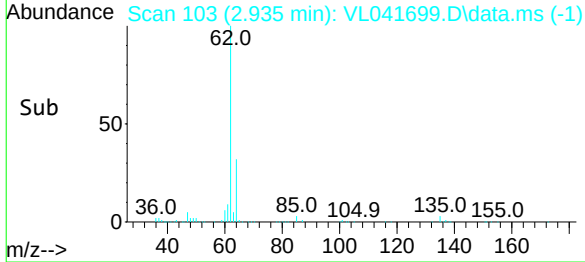
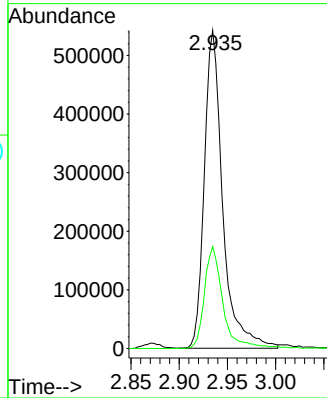
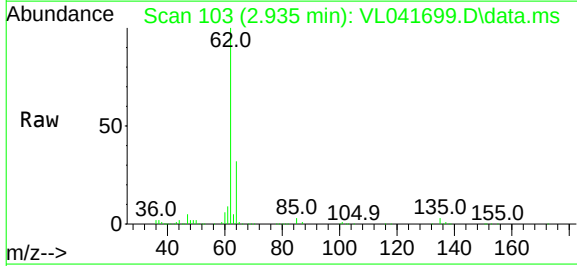
#5  
Vinyl Chloride  
Concen: 9.955 ppbv  
RT: 2.935 min Scan# 10  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion: 62 Resp: 719166  
Ion Ratio Lower Upper  
62 100  
64 32.0 25.4 38.2

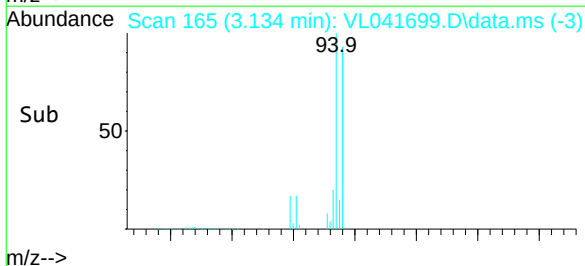
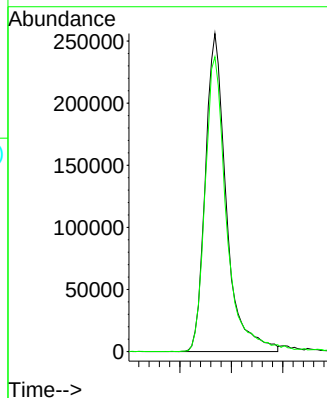
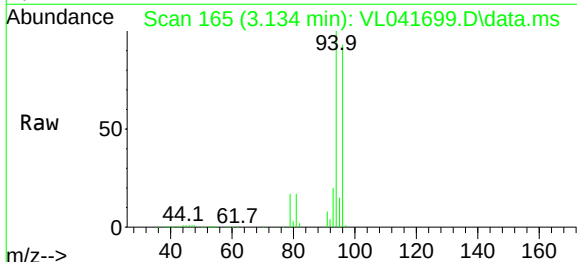
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

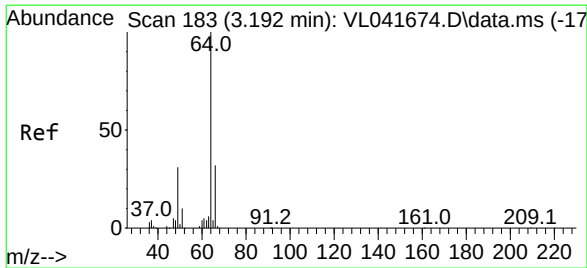


#6  
Bromomethane  
Concen: 9.456 ppbv  
RT: 3.134 min Scan# 165  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 94 Resp: 362376  
Ion Ratio Lower Upper  
94 100  
96 92.7 73.4 110.2

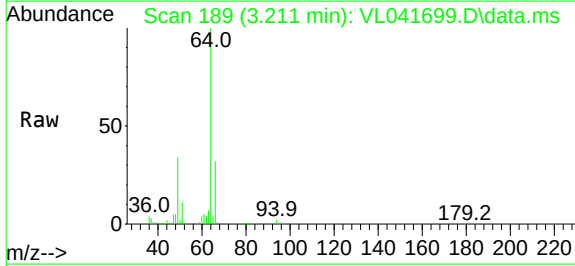






#7  
Chloroethane  
Concen: 9.213 ppbv  
RT: 3.211 min Scan# 18  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

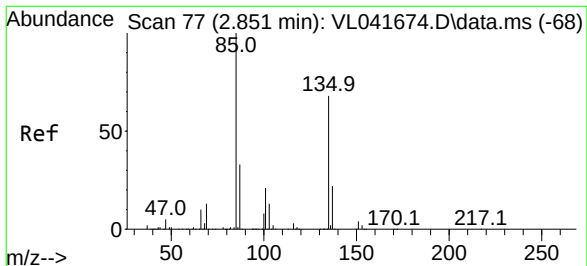
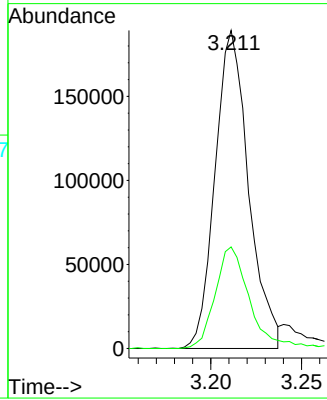
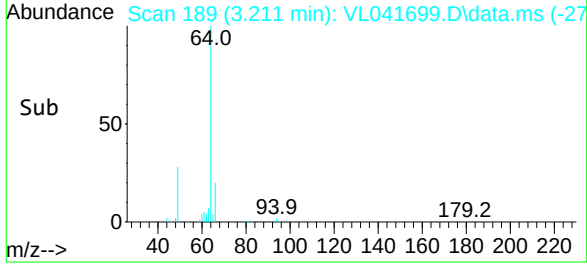
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



Tgt Ion: 64 Resp: 242916  
Ion Ratio Lower Upper  
64 100  
66 31.9 25.9 38.9

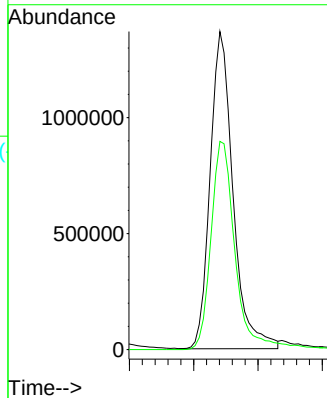
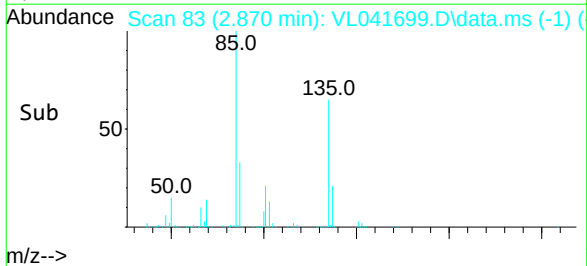
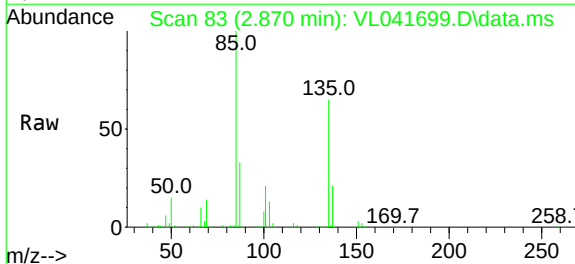
Manual Integrations  
APPROVED

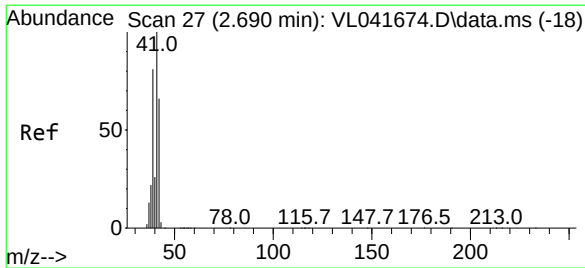
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#8  
Dichlorotetrafluoroethane  
Concen: 9.016 ppbv  
RT: 2.870 min Scan# 83  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 85 Resp: 1692833  
Ion Ratio Lower Upper  
85 100  
135 70.2 55.5 83.3





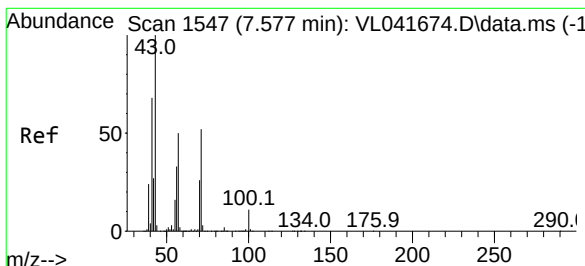
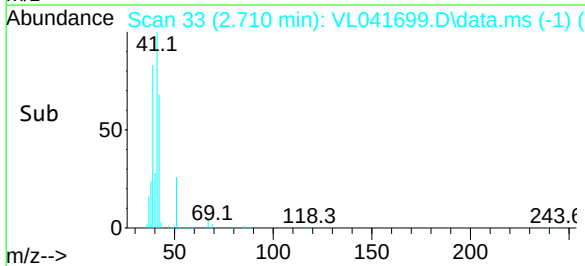
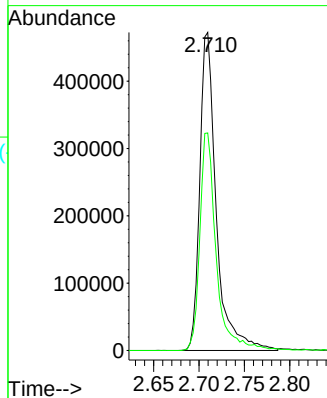
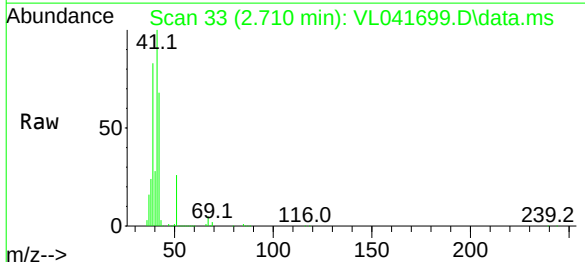
#9  
Propene  
Concen: 9.028 ppbv  
RT: 2.710 min Scan# 33  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion: 41 Resp: 596424  
Ion Ratio Lower Upper  
41 100  
42 68.5 55.0 82.4

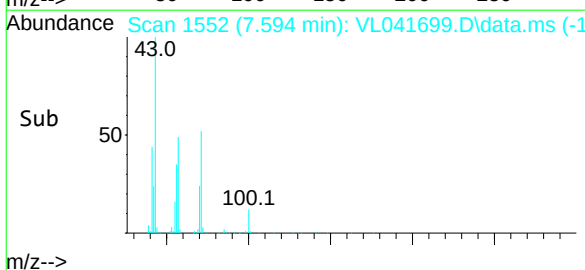
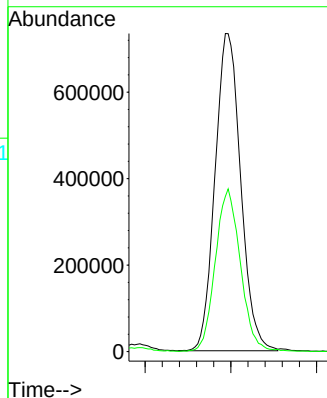
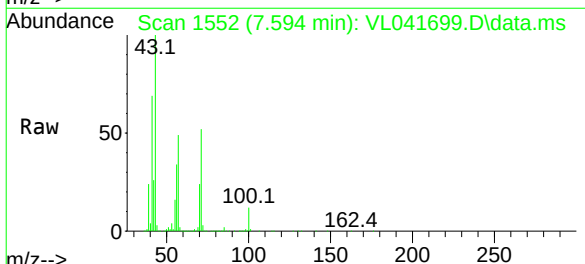
Manual Integrations  
APPROVED

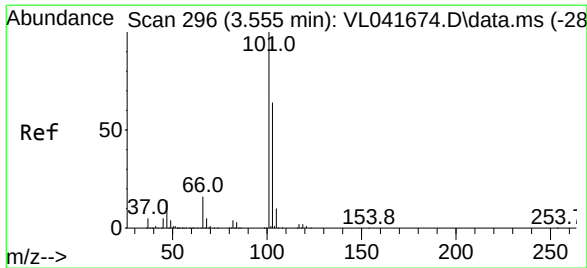
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#10  
Heptane  
Concen: 10.297 ppbv  
RT: 7.594 min Scan# 1552  
Delta R.T. 0.016 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 43 Resp: 1524430  
Ion Ratio Lower Upper  
43 100  
57 50.3 40.0 60.0





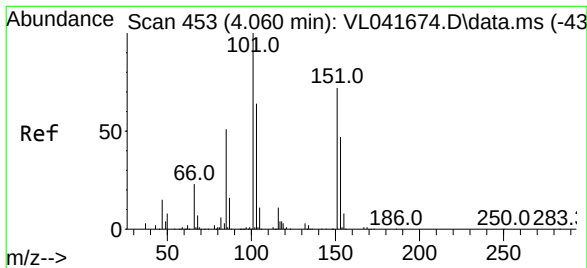
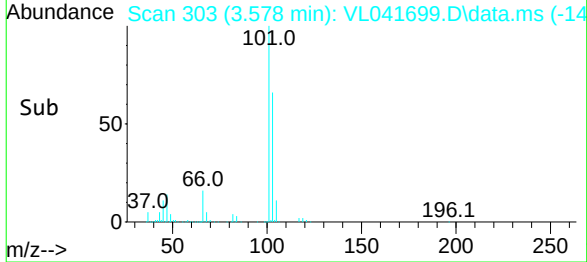
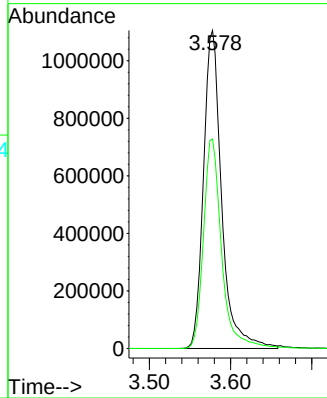
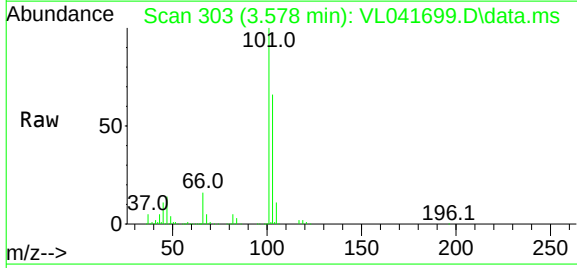
#11  
Trichlorofluoromethane  
Concen: 9.371 ppbv  
RT: 3.578 min Scan# 30  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion:101 Resp: 1716777  
Ion Ratio Lower Upper  
101 100  
103 65.9 51.0 76.6

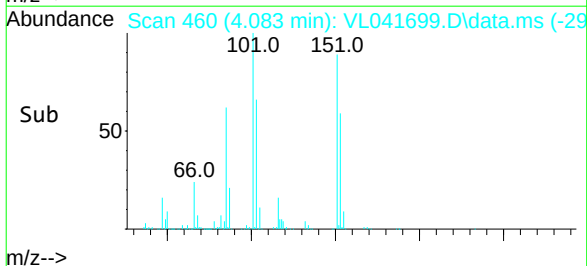
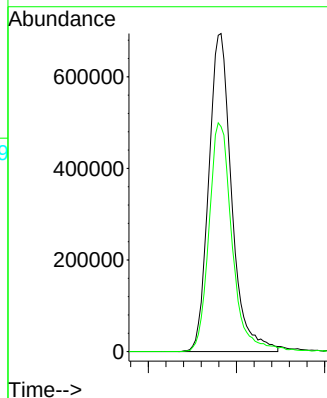
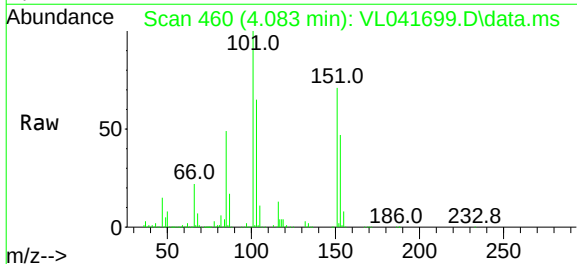
Manual Integrations  
APPROVED

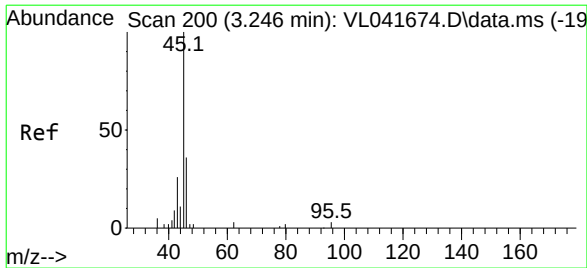
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.413 ppbv  
RT: 4.083 min Scan# 460  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion:101 Resp: 1253402  
Ion Ratio Lower Upper  
101 100  
151 73.0 59.1 88.7





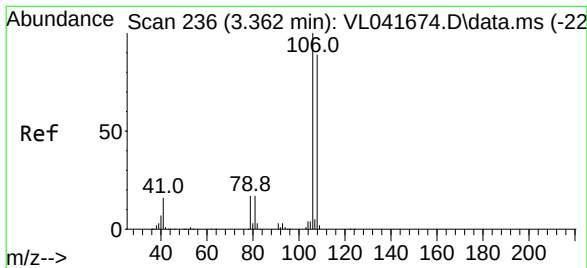
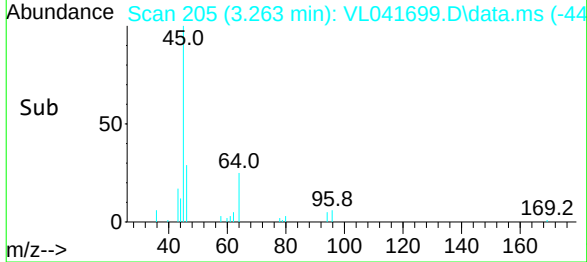
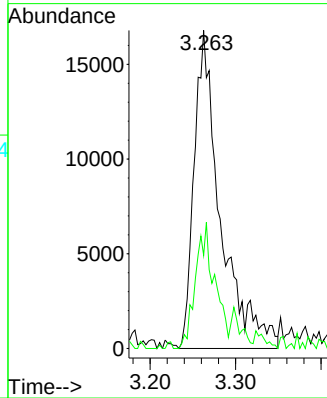
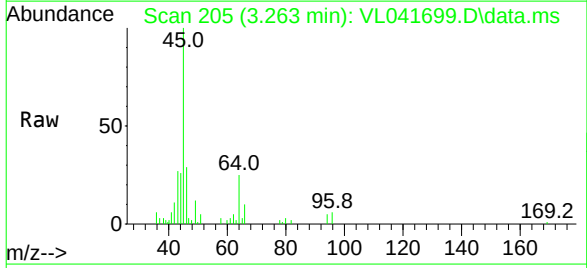
#13  
Ethanol  
Concen: 8.880 ppbv m  
RT: 3.263 min Scan# 20  
Delta R.T. 0.016 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion: 45 Resp: 35922  
Ion Ratio Lower Upper  
45 100  
46 36.5 13.8 55.2

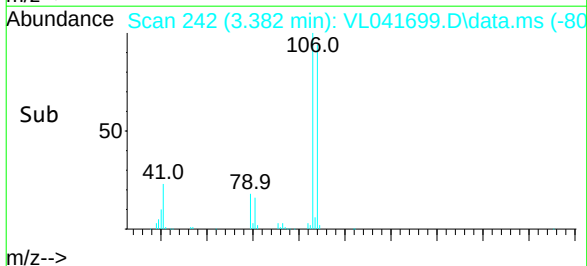
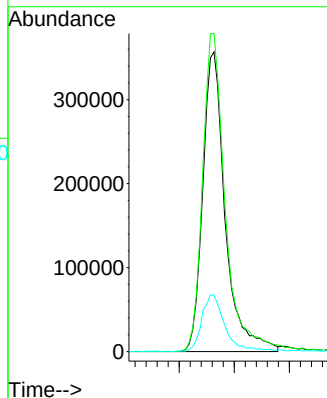
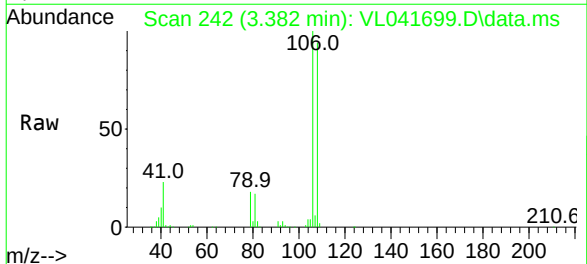
Manual Integrations  
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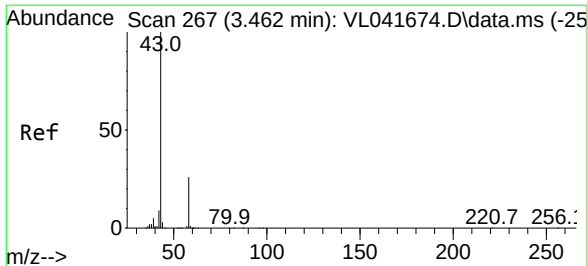
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#14  
Bromoethene  
Concen: 9.423 ppbv  
RT: 3.382 min Scan# 242  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

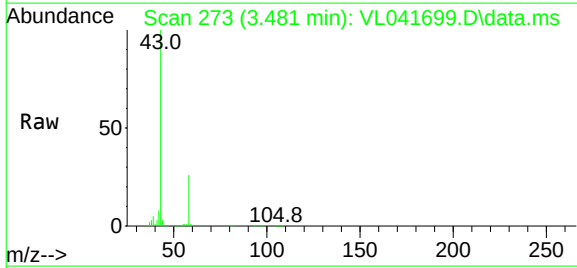
Tgt Ion:108 Resp: 504396  
Ion Ratio Lower Upper  
108 100  
106 109.3 88.6 133.0  
79 20.4 15.6 23.4





#15  
Acetone  
Concen: 9.122 ppbv  
RT: 3.481 min Scan# 27  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

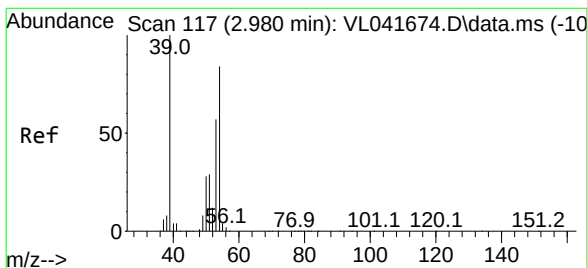
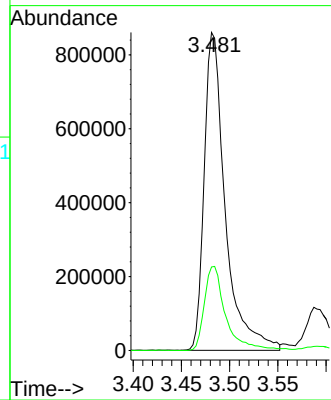
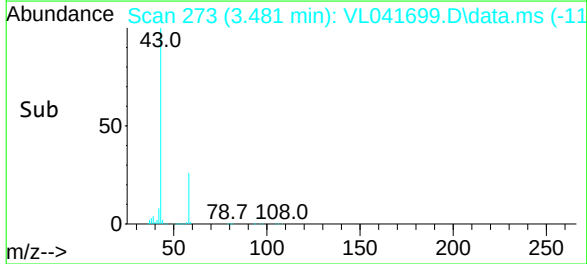
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



Tgt Ion: 43 Resp: 1306457  
Ion Ratio Lower Upper  
43 100  
58 26.9 21.4 32.0

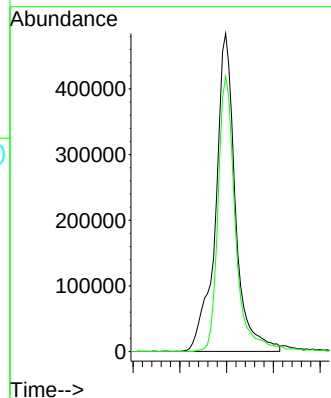
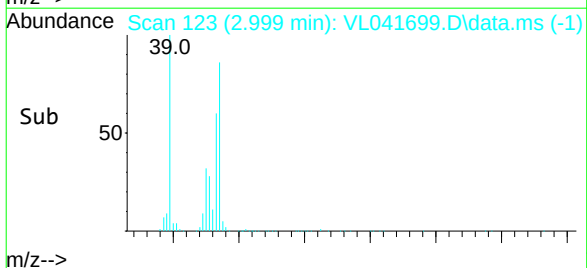
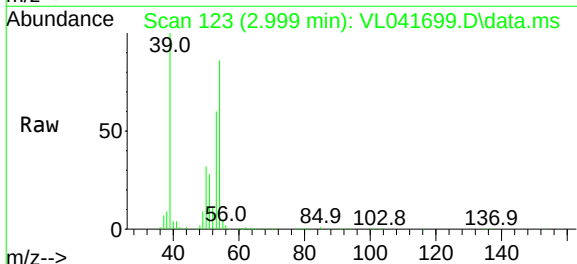
Manual Integrations  
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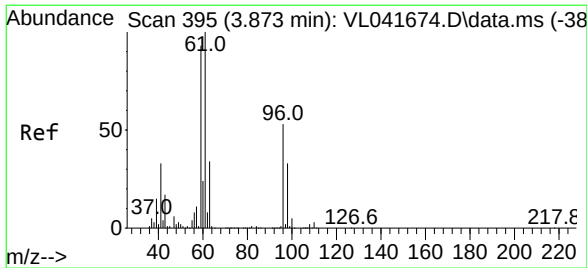
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#16  
1,3-Butadiene  
Concen: 9.903 ppbv  
RT: 2.999 min Scan# 123  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

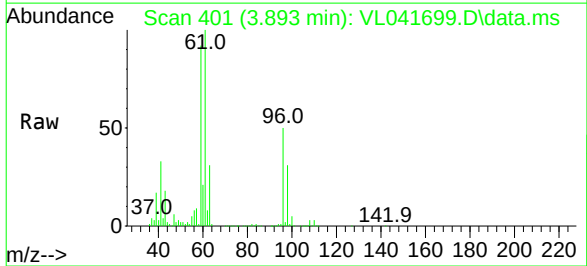
Tgt Ion: 39 Resp: 715603  
Ion Ratio Lower Upper  
39 100  
54 76.6 61.3 91.9





#17  
tert-Butyl alcohol  
Concen: 9.507 ppbv  
RT: 3.893 min Scan# 401  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

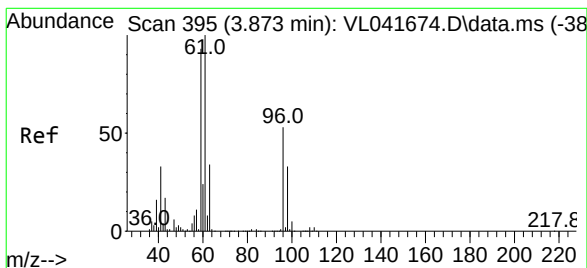
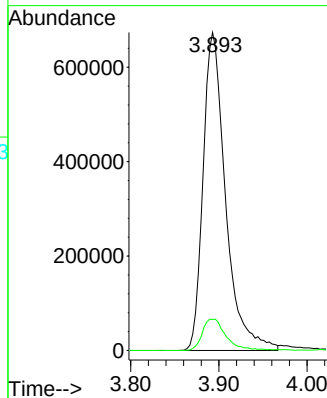
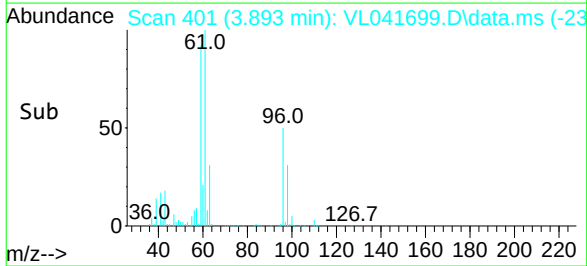
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



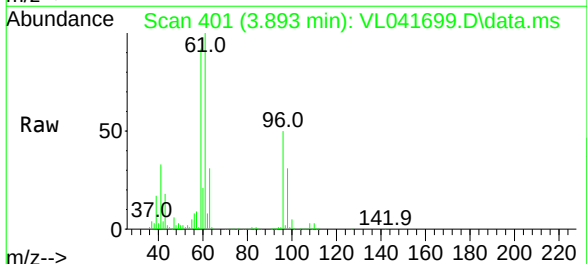
Tgt Ion: 59 Resp: 1194748  
Ion Ratio Lower Upper  
59 100  
57 10.9 8.5 12.7

Manual Integrations  
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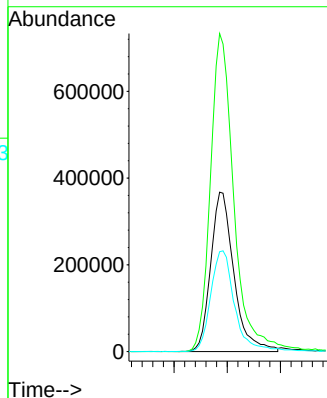
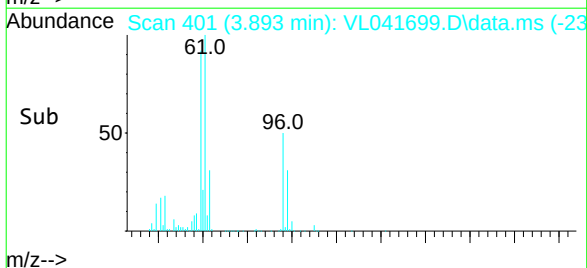
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

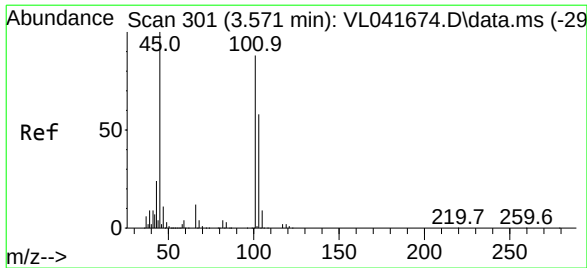


#18  
1,1-Dichloroethene  
Concen: 9.544 ppbv  
RT: 3.893 min Scan# 401  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15



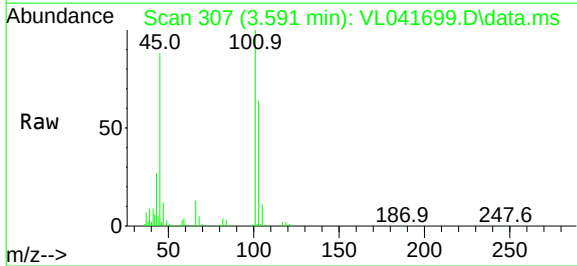
Tgt Ion: 96 Resp: 557361  
Ion Ratio Lower Upper  
96 100  
61 199.5 150.7 226.1  
98 62.5 49.4 74.2





#19  
Isopropyl Alcohol  
Concen: 9.101 ppbv  
RT: 3.591 min Scan# 301  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

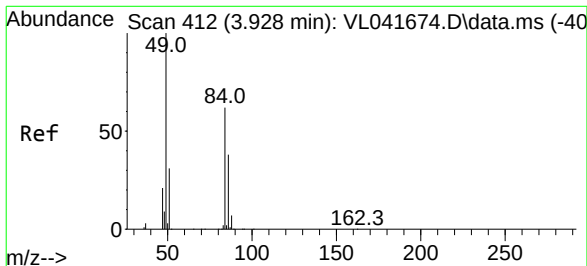
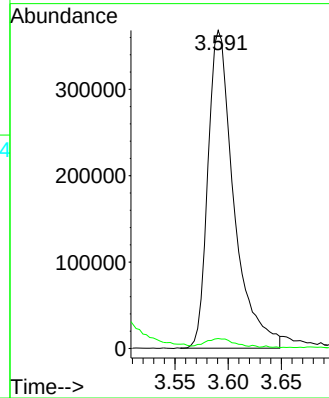
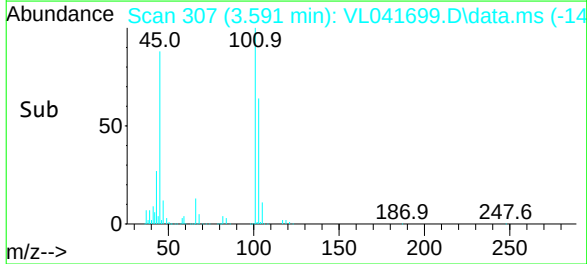
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



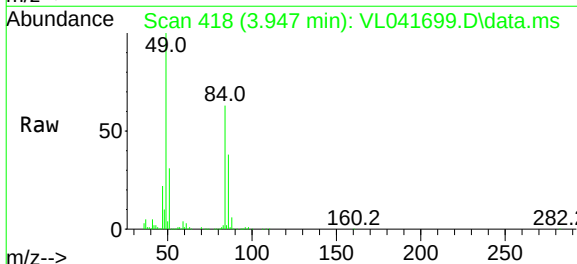
Tgt Ion: 45 Resp: 622976  
Ion Ratio Lower Upper  
45 100  
58 3.7 2.5 3.7

Manual Integrations  
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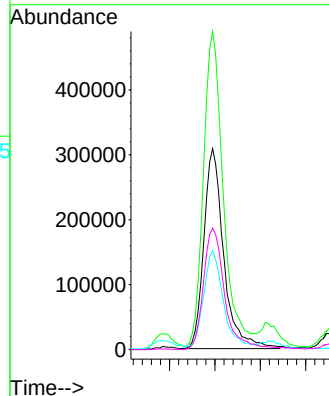
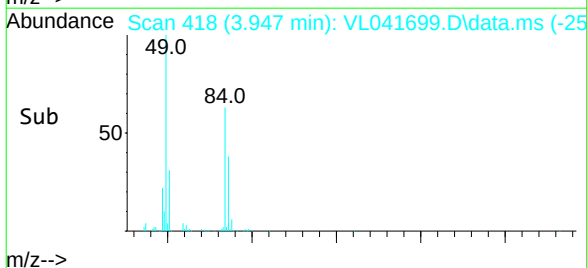
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

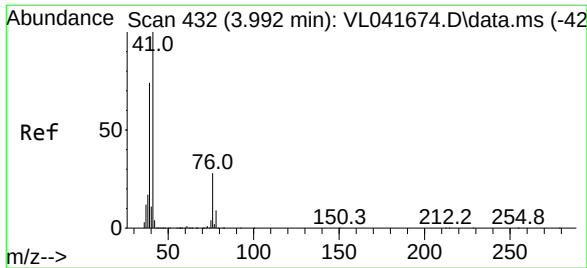


#20  
Methylene Chloride  
Concen: 8.884 ppbv  
RT: 3.947 min Scan# 418  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15



Tgt Ion: 84 Resp: 468186  
Ion Ratio Lower Upper  
84 100  
49 156.7 129.7 194.5  
51 47.0 39.8 59.6  
86 60.7 49.1 73.7





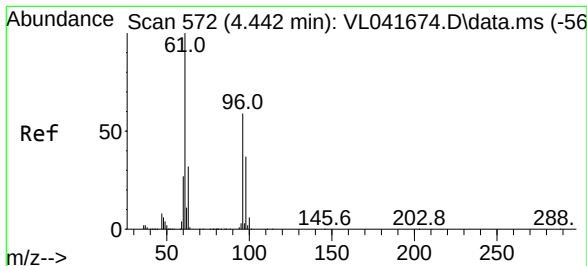
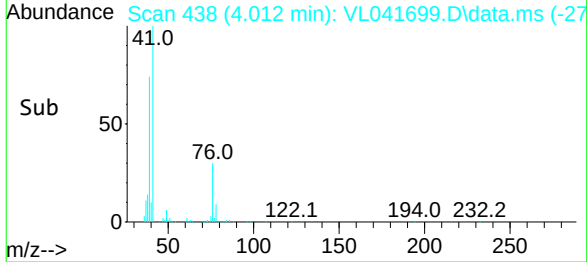
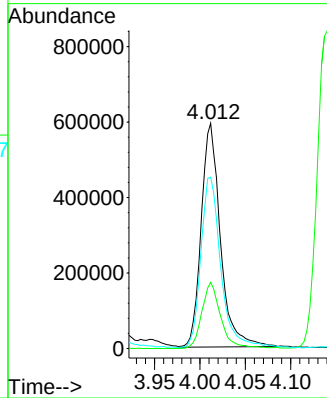
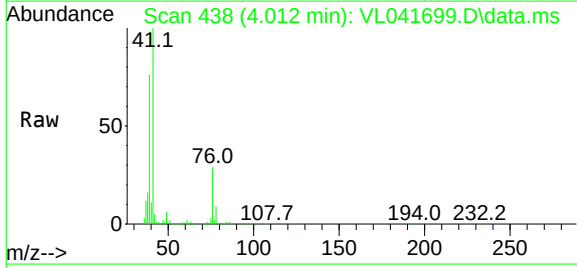
#21  
 Allyl Chloride  
 Concen: 9.878 ppbv  
 RT: 4.012 min Scan# 43  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1120ABS01

Tgt Ion: 41 Resp: 874140  
 Ion Ratio Lower Upper  
 41 100  
 76 29.3 23.5 35.3  
 39 79.8 63.0 94.4

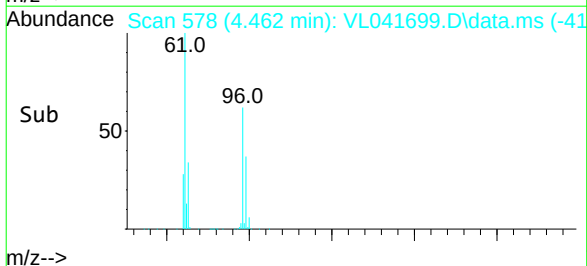
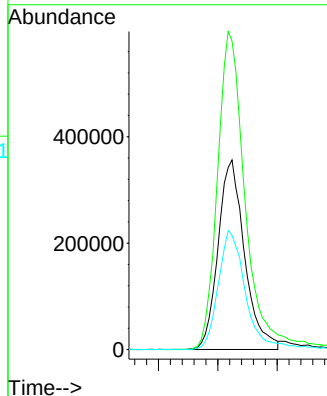
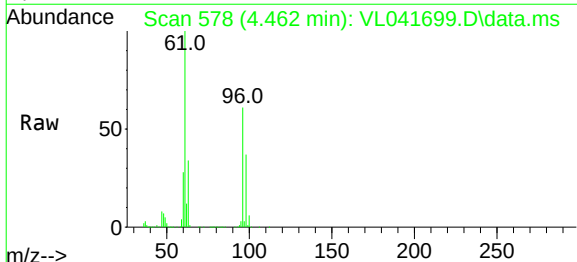
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 11/21/2024  
 Supervised By :Mahesh Dadoda 11/21/2024

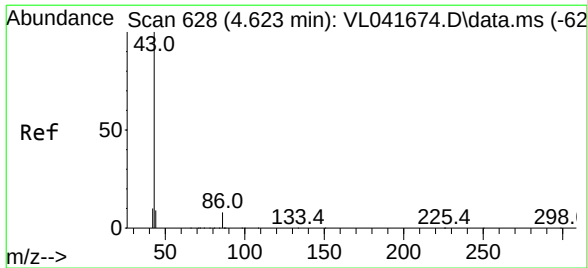


#22  
 trans-1,2-Dichloroethene  
 Concen: 9.522 ppbv  
 RT: 4.462 min Scan# 578  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

Tgt Ion: 96 Resp: 552930  
 Ion Ratio Lower Upper  
 96 100  
 61 162.7 134.5 201.7  
 98 60.2 49.6 74.4







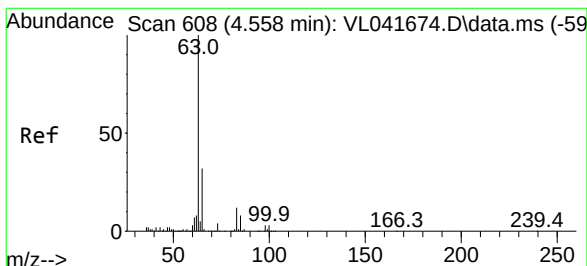
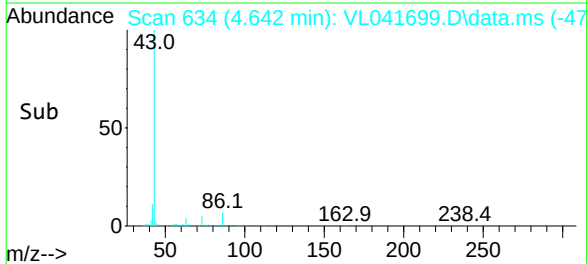
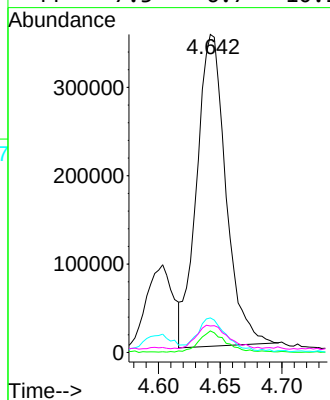
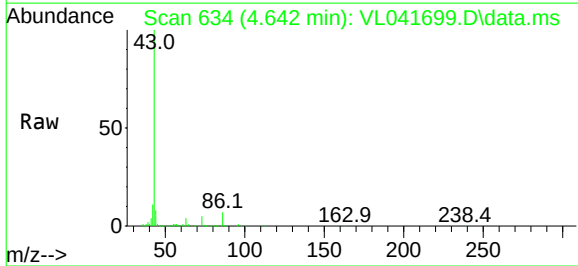
#23  
Vinyl Acetate  
Concen: 9.164 ppbv  
RT: 4.642 min Scan# 63  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 578556 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 86 6.8      | 5.3 7.9      |
| 42 10.6     | 8.5 12.7     |
| 44 7.3      | 6.7 10.1     |

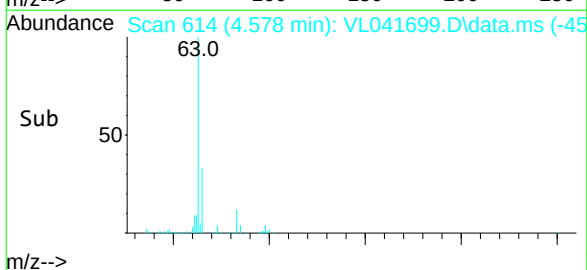
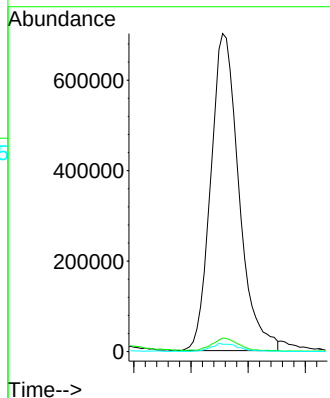
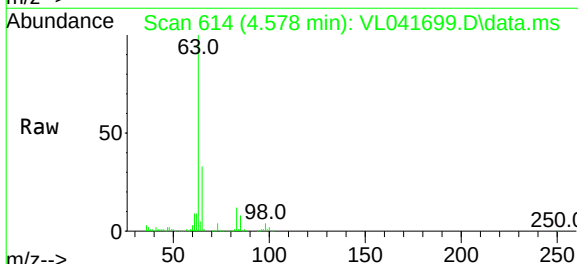
Manual Integrations  
APPROVED

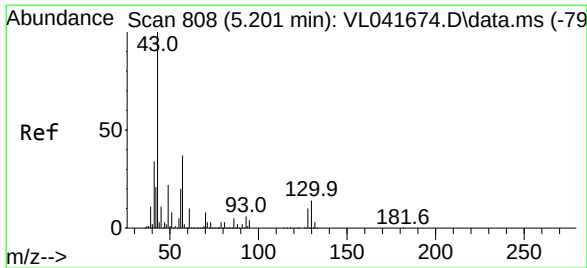
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#24  
1,1-Dichloroethane  
Concen: 9.261 ppbv  
RT: 4.578 min Scan# 614  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

|             |               |
|-------------|---------------|
| Tgt Ion: 63 | Resp: 1200413 |
| Ion Ratio   | Lower Upper   |
| 63 100      |               |
| 98 3.9      | 1.8 5.4       |
| 100 2.2     | 1.4 4.2       |





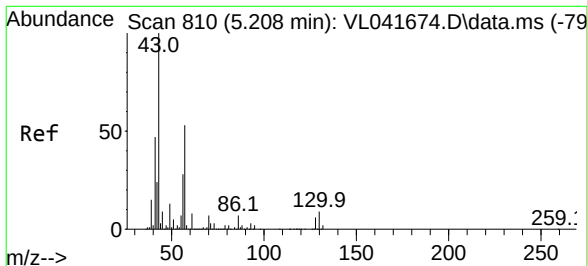
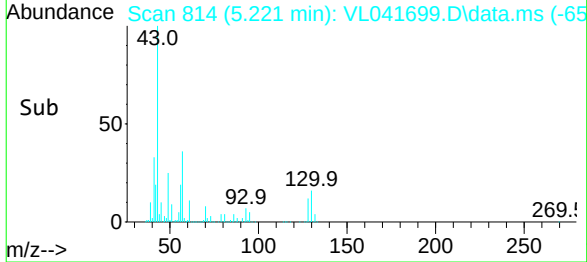
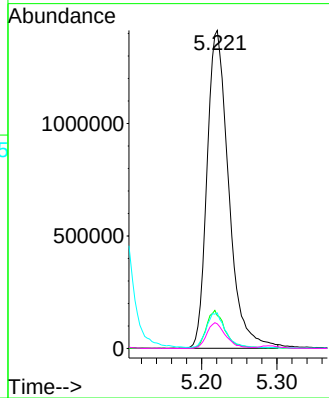
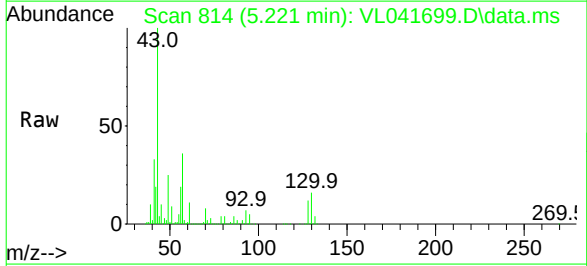
#25  
Ethyl Acetate  
Concen: 9.506 ppbv  
RT: 5.221 min Scan# 81  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

|             |               |       |       |
|-------------|---------------|-------|-------|
| Tgt Ion: 43 | Resp: 2817969 |       |       |
| Ion         | Ratio         | Lower | Upper |
| 43          | 100           |       |       |
| 45          | 10.8          | 8.6   | 13.0  |
| 61          | 10.3          | 8.4   | 12.6  |
| 70          | 7.2           | 5.8   | 8.6   |

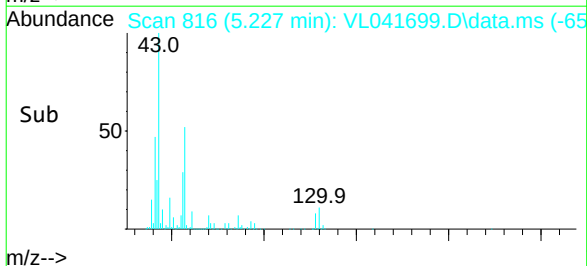
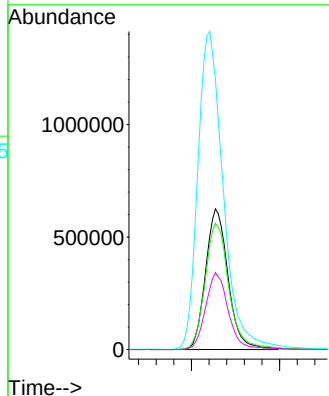
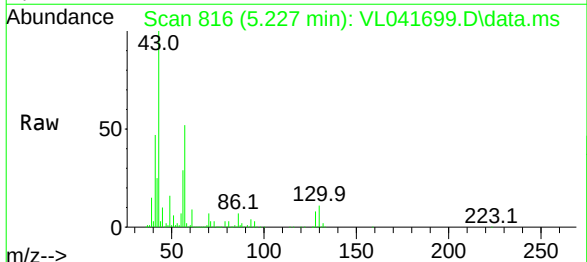
Manual Integrations  
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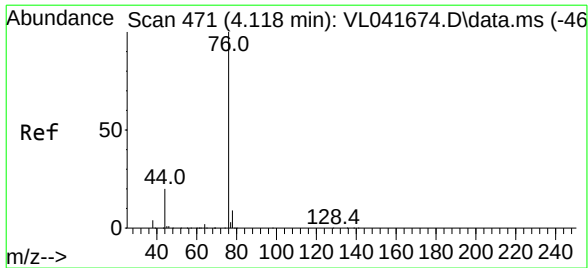
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#26  
Hexane  
Concen: 9.737 ppbv  
RT: 5.227 min Scan# 816  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

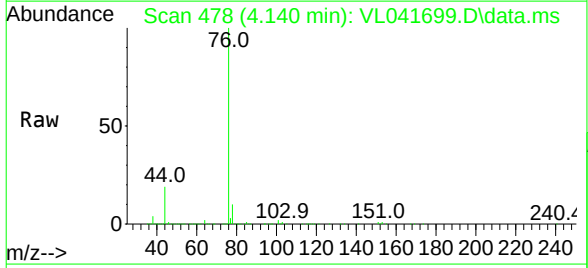
|             |               |       |       |
|-------------|---------------|-------|-------|
| Tgt Ion: 57 | Resp: 1108983 |       |       |
| Ion         | Ratio         | Lower | Upper |
| 57          | 100           |       |       |
| 41          | 95.8          | 76.1  | 114.1 |
| 43          | 256.6         | 207.0 | 310.6 |
| 56          | 55.4          | 43.7  | 65.5  |





#27  
Carbon Disulfide  
Concen: 10.677 ppbv  
RT: 4.140 min Scan# 471  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

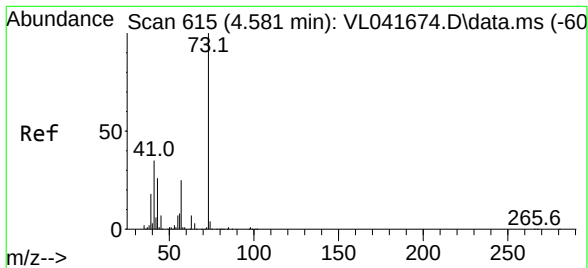
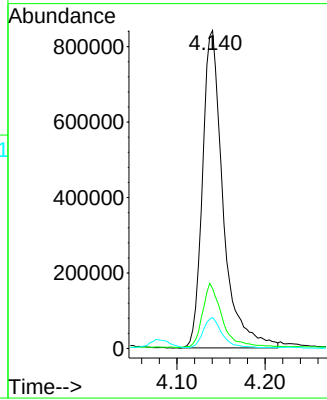
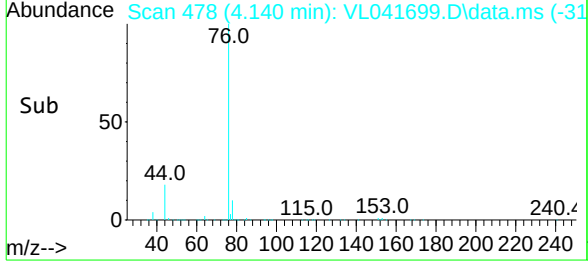
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



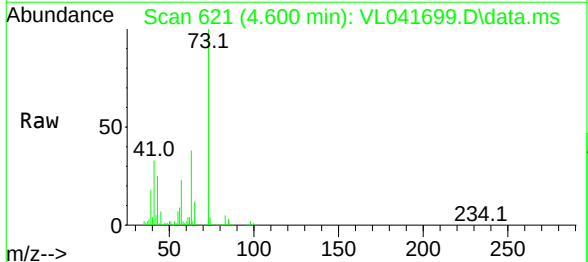
Tgt Ion: 76 Resp: 1366173  
Ion Ratio Lower Upper  
76 100  
44 20.0 15.8 23.8  
78 9.4 7.5 11.3

Manual Integrations  
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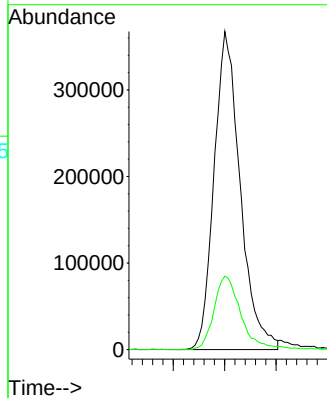
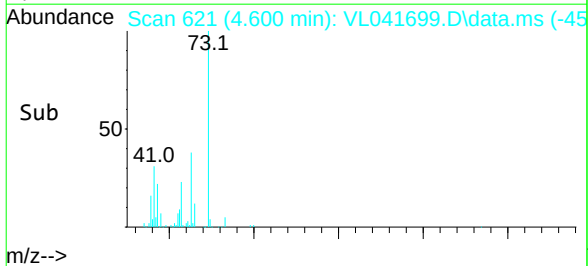
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

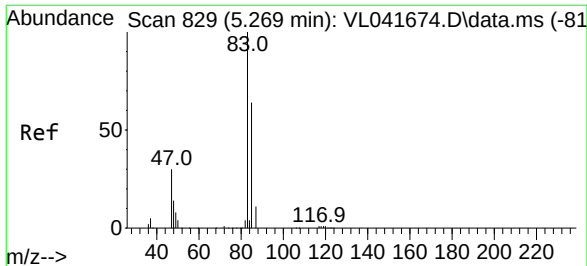


#28  
Methyl tert-Butyl Ether  
Concen: 8.826 ppbv  
RT: 4.600 min Scan# 621  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15



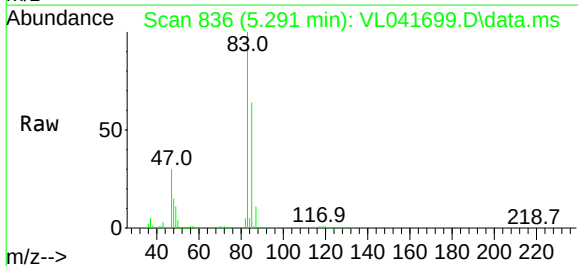
Tgt Ion: 73 Resp: 647293  
Ion Ratio Lower Upper  
73 100  
57 24.1 19.6 29.4





#29  
Chloroform  
Concen: 9.436 ppbv  
RT: 5.291 min Scan# 83  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

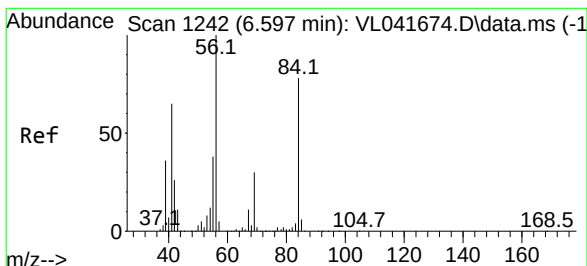
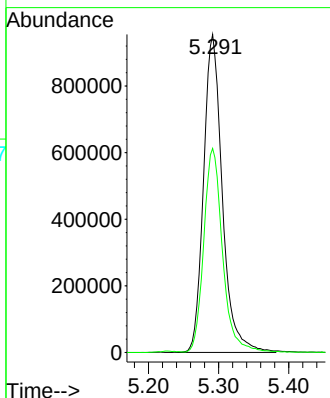
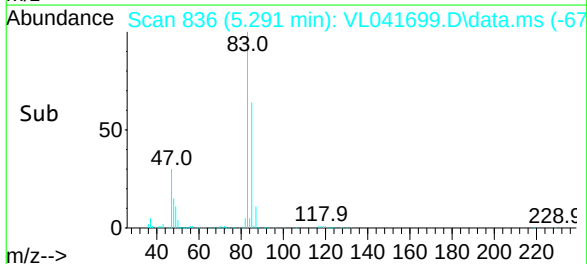
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



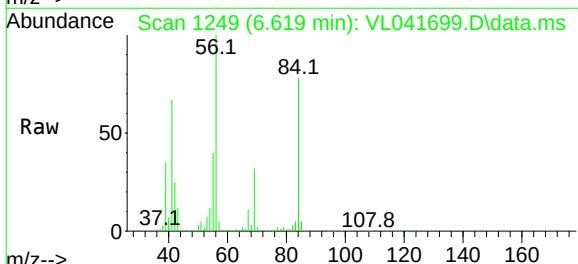
Tgt Ion: 83 Resp: 1773915  
Ion Ratio Lower Upper  
83 100  
85 64.0 51.1 76.7

Manual Integrations  
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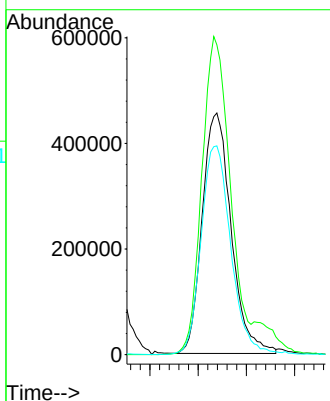
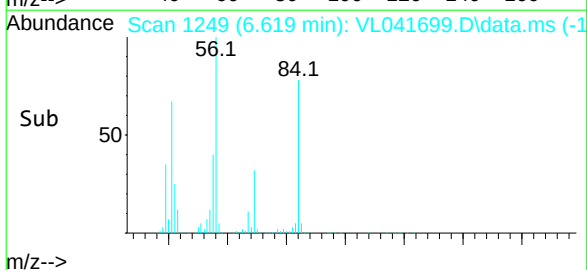
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

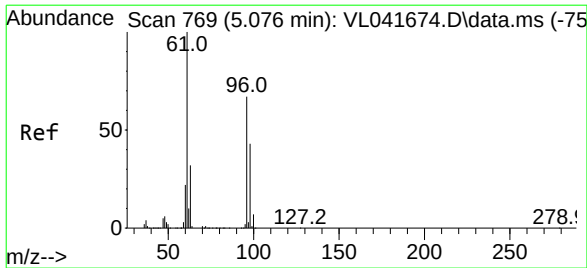


#30  
Cyclohexane  
Concen: 9.815 ppbv  
RT: 6.619 min Scan# 1249  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15



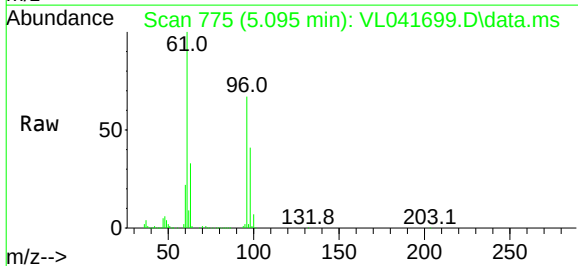
Tgt Ion: 84 Resp: 951807  
Ion Ratio Lower Upper  
84 100  
56 139.2 110.8 166.2  
41 88.9 70.0 105.0





#31  
 cis-1,2-Dichloroethene  
 Concen: 9.810 ppbv  
 RT: 5.095 min Scan# 77  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

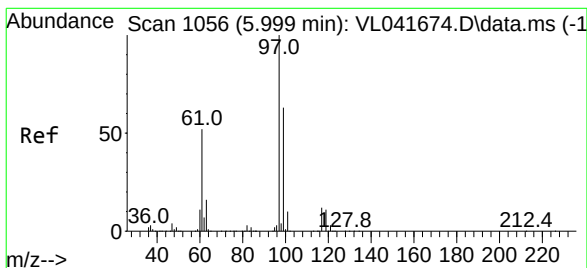
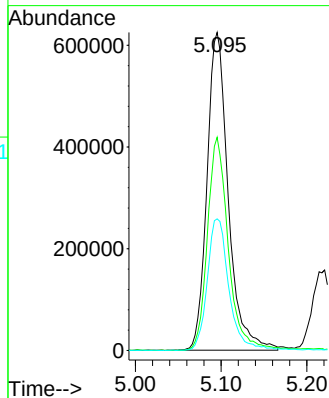
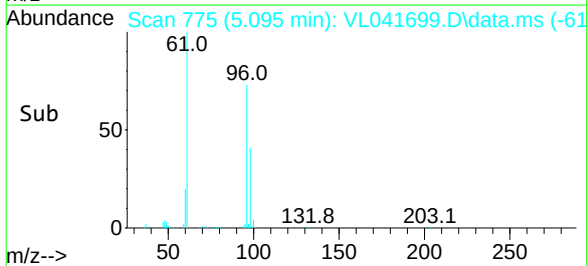
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1120ABS01



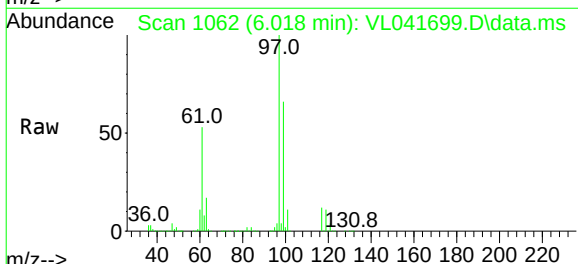
Tgt Ion: 61 Resp: 1074877  
 Ion Ratio Lower Upper  
 61 100  
 96 67.0 53.4 80.2  
 98 41.3 34.0 51.0

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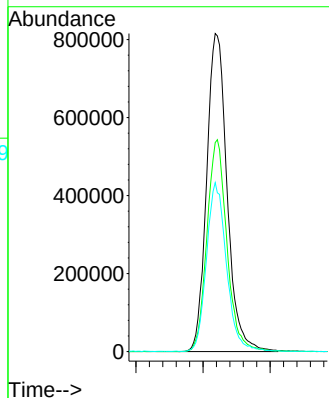
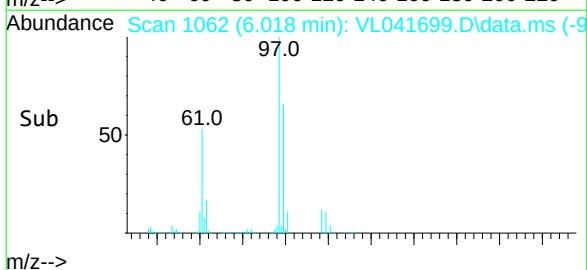
Reviewed By :Semsettin Yesilyurt 11/21/2024  
 Supervised By :Mahesh Dadoda 11/21/2024

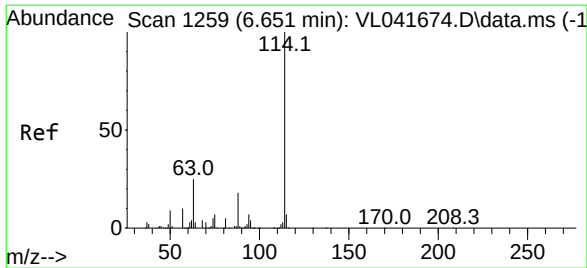


#32  
 1,1,1-Trichloroethane  
 Concen: 10.080 ppbv  
 RT: 6.018 min Scan# 1062  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15



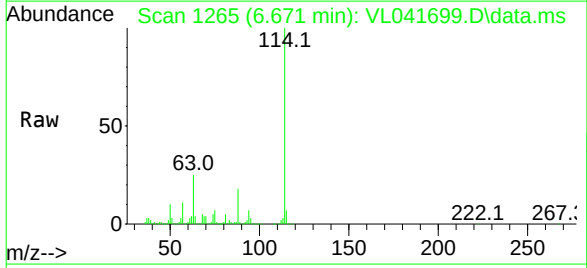
Tgt Ion: 97 Resp: 1728793  
 Ion Ratio Lower Upper  
 97 100  
 99 65.2 51.4 77.2  
 61 52.3 41.7 62.5





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.671 min Scan# 12  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

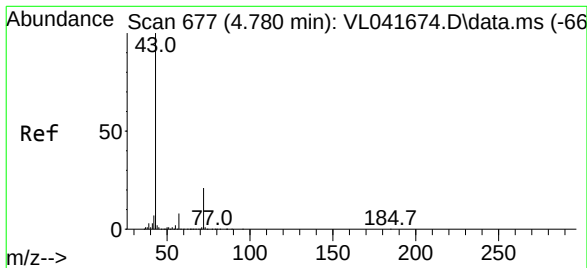
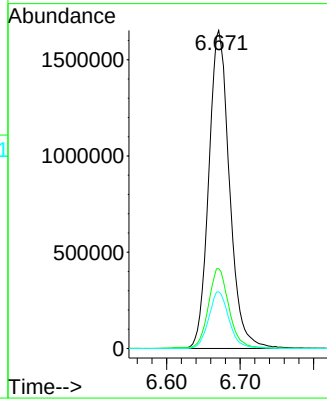
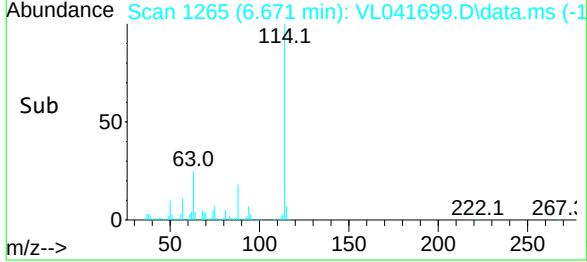
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



Tgt Ion: 114 Resp: 3239097  
Ion Ratio Lower Upper  
114 100  
63 25.3 20.3 30.5  
88 17.5 14.2 21.4

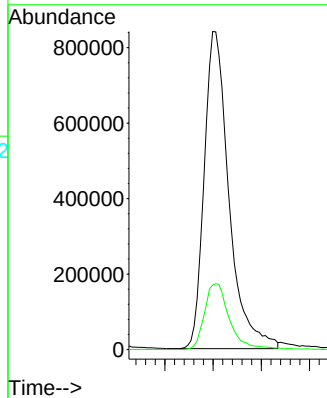
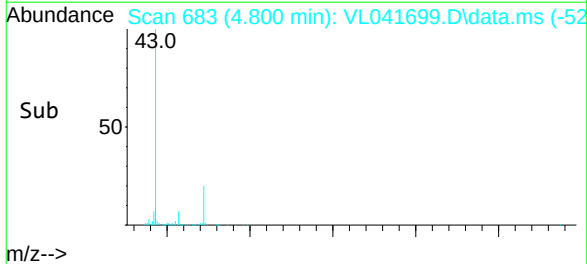
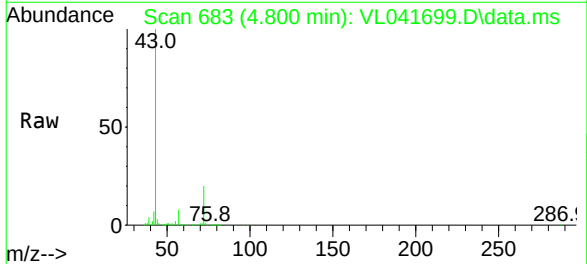
Manual Integrations  
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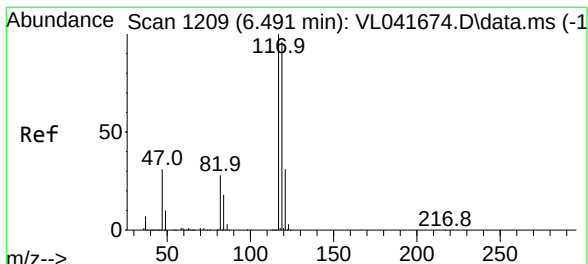
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#34  
2-Butanone  
Concen: 9.310 ppbv  
RT: 4.800 min Scan# 683  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 43 Resp: 1501583  
Ion Ratio Lower Upper  
43 100  
72 21.1 17.4 26.0





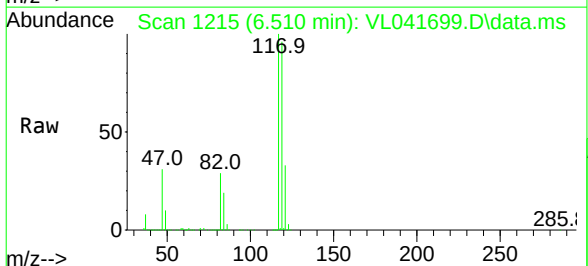
#35  
Carbon Tetrachloride  
Concen: 10.688 ppbv  
RT: 6.510 min Scan# 1215  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :

MSVOA\_L

ClientSampleId :

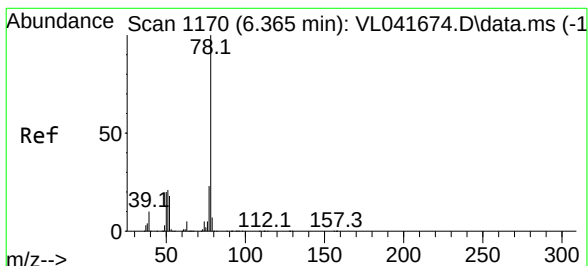
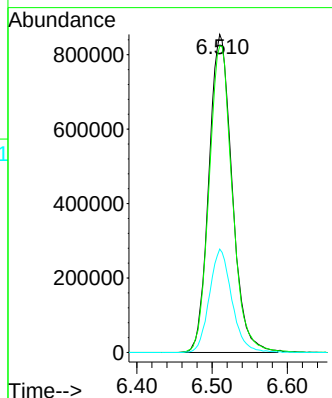
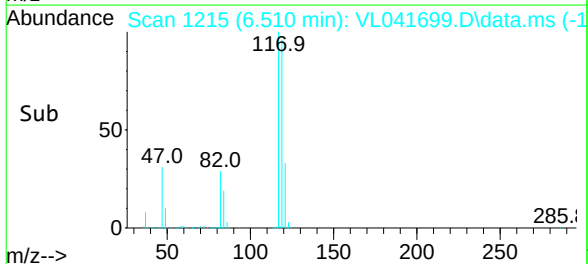
VL1120ABS01



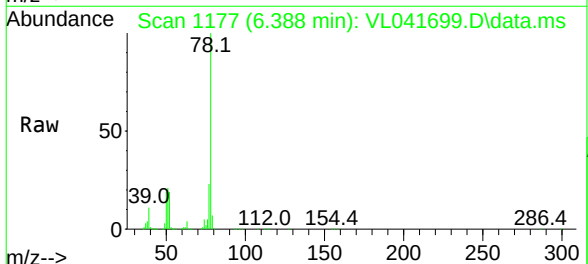
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 117   | Resp: | 1826480 |
| Ion      | Ratio | Lower | Upper   |
| 117      | 100   |       |         |
| 119      | 96.4  | 77.2  | 115.8   |
| 121      | 32.5  | 25.0  | 37.4    |

Manual Integrations  
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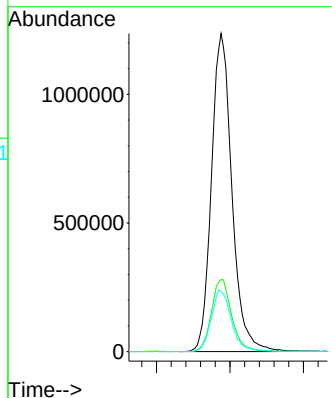
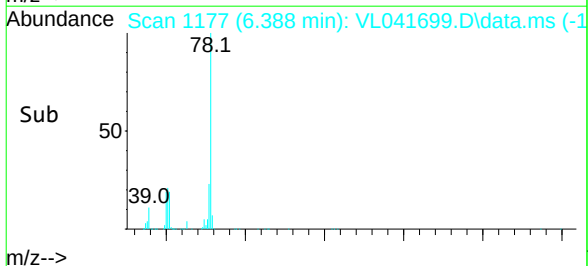
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

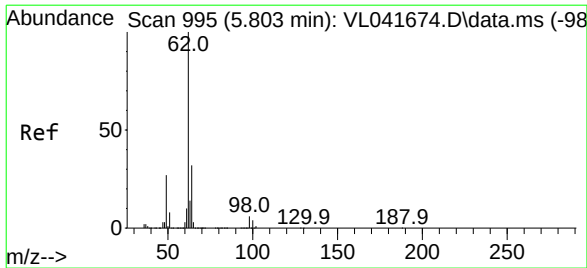


#36  
Benzene  
Concen: 9.947 ppbv  
RT: 6.388 min Scan# 1177  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15



|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 78    | Resp: | 2387291 |
| Ion      | Ratio | Lower | Upper   |
| 78       | 100   |       |         |
| 77       | 22.7  | 18.5  | 27.7    |
| 50       | 18.7  | 15.6  | 23.4    |





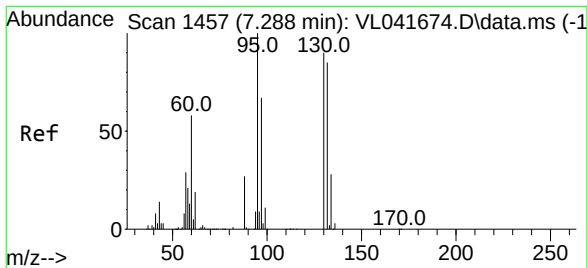
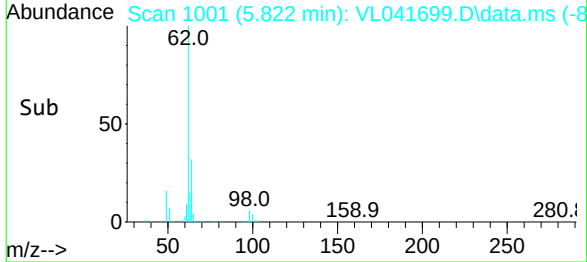
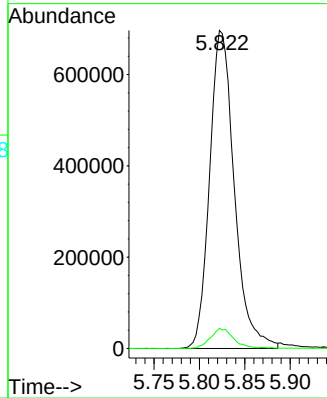
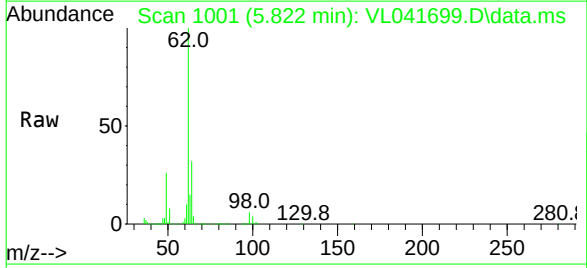
#37  
1,2-Dichloroethane  
Concen: 9.744 ppbv  
RT: 5.822 min Scan# 10  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion: 62 Resp: 1319263  
Ion Ratio Lower Upper  
62 100  
98 6.2 5.2 7.8

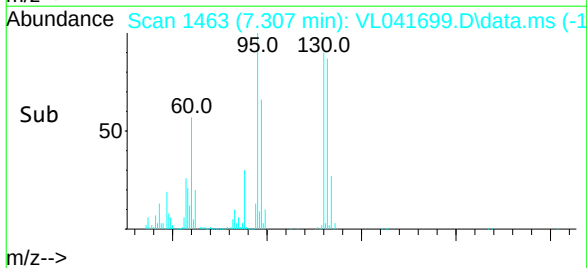
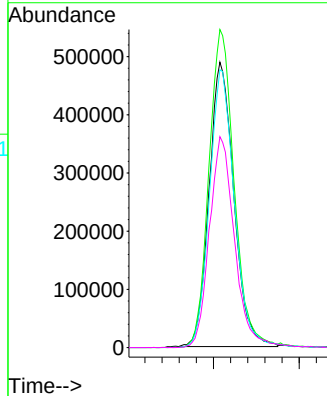
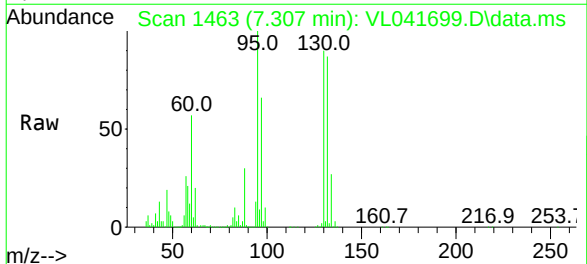
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

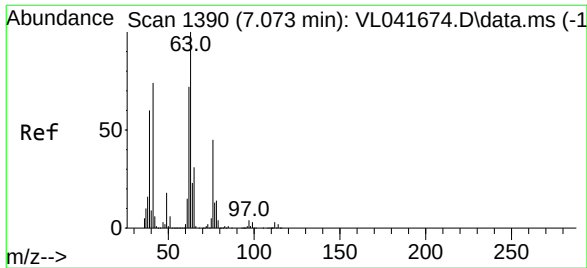


#38  
Trichloroethene  
Concen: 10.635 ppbv  
RT: 7.307 min Scan# 1463  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion:130 Resp: 980257  
Ion Ratio Lower Upper  
130 100  
95 111.7 89.1 133.7  
132 97.6 75.7 113.5  
97 74.1 60.0 90.0

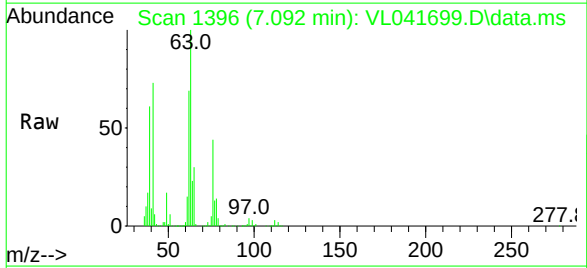






#39  
1,2-Dichloropropane  
Concen: 9.759 ppbv  
RT: 7.092 min Scan# 1390  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

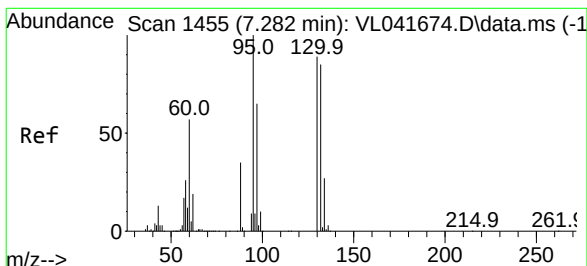
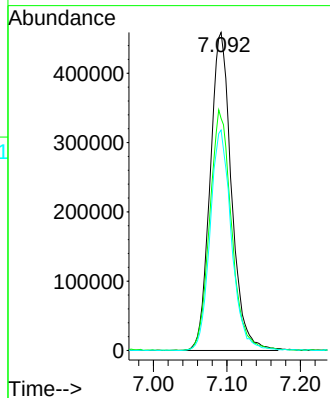
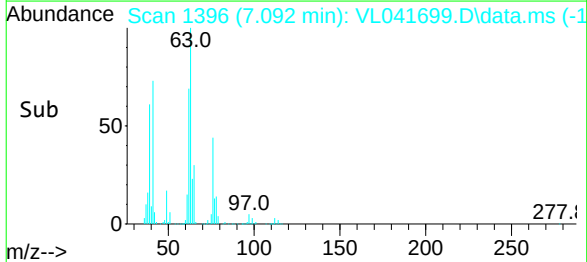
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



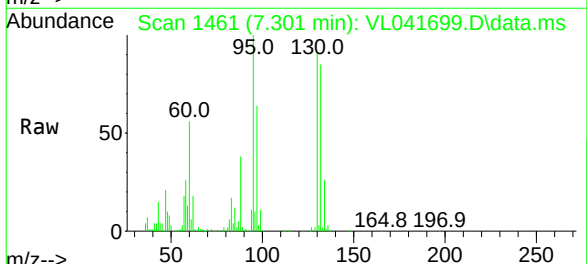
Tgt Ion: 63 Resp: 925581  
Ion Ratio Lower Upper  
63 100  
41 72.9 59.1 88.7  
62 69.3 57.7 86.5

Manual Integrations  
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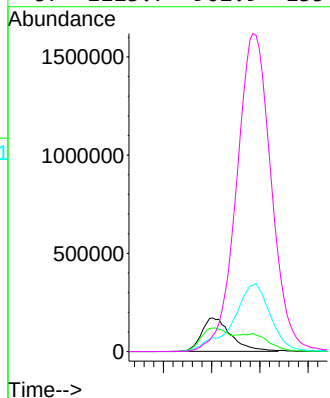
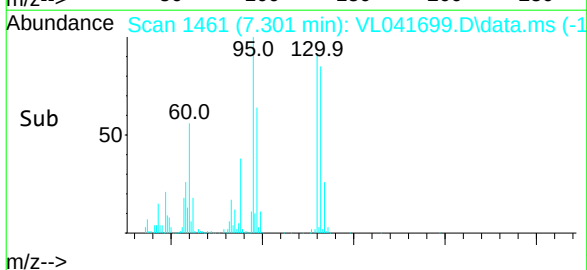
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

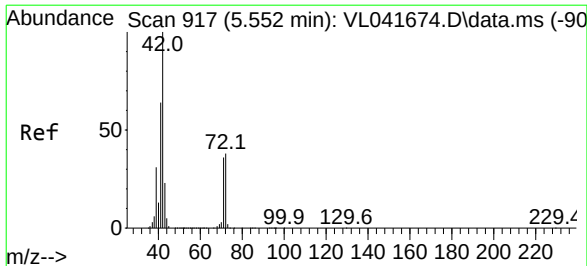


#40  
1,4-Dioxane  
Concen: 10.596 ppbv  
RT: 7.301 min Scan# 1461  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15



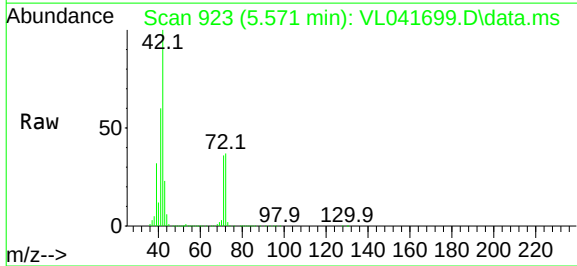
Tgt Ion: 88 Resp: 360556  
Ion Ratio Lower Upper  
88 100  
58 126.0 101.4 152.2  
43 260.6 208.0 312.0  
57 1123.7 902.9 1354.3





#41  
Tetrahydrofuran  
Concen: 10.257 ppbv  
RT: 5.571 min Scan# 92  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

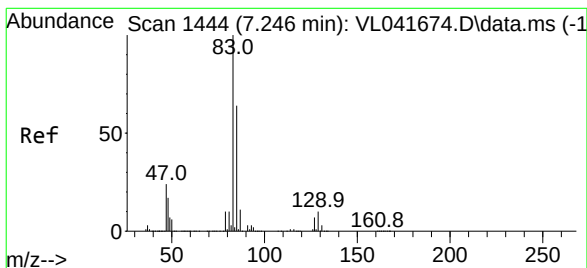
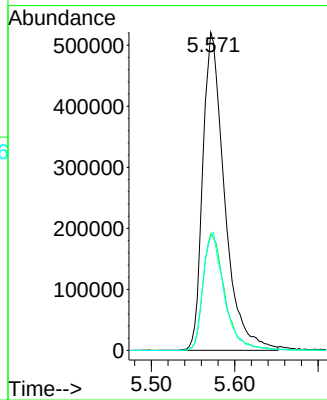
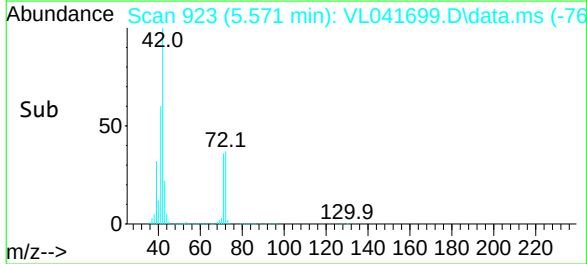
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



Tgt Ion: 42 Resp: 944786  
Ion Ratio Lower Upper  
42 100  
72 36.8 29.8 44.6  
71 36.4 29.4 44.2

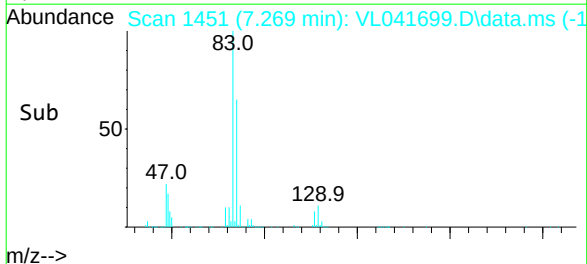
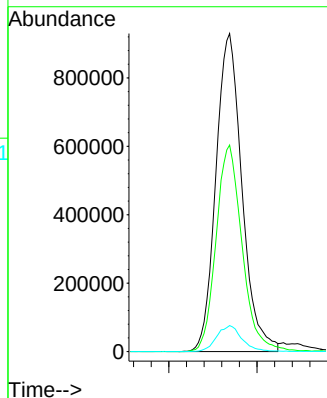
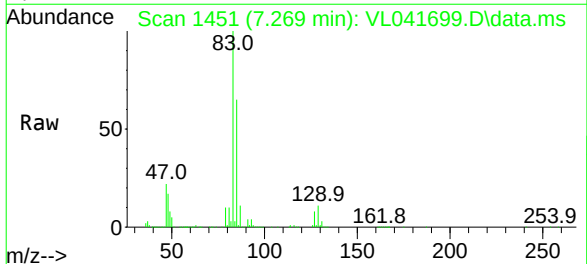
Manual Integrations  
APPROVED

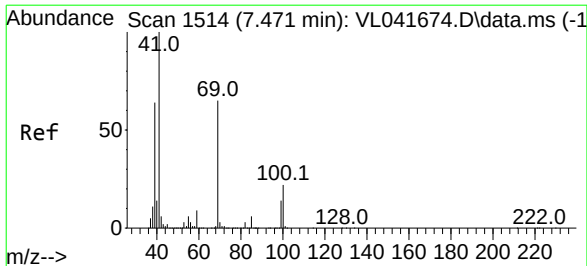
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#42  
Bromodichloromethane  
Concen: 10.147 ppbv  
RT: 7.269 min Scan# 1451  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 83 Resp: 1909198  
Ion Ratio Lower Upper  
83 100  
85 64.9 51.2 76.8  
127 8.2 6.0 9.0





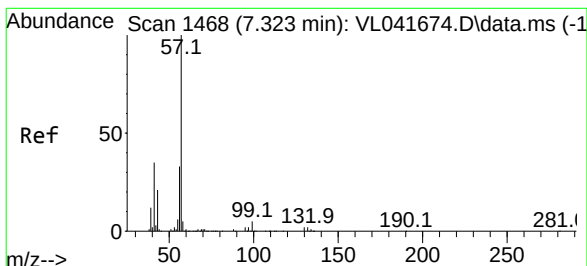
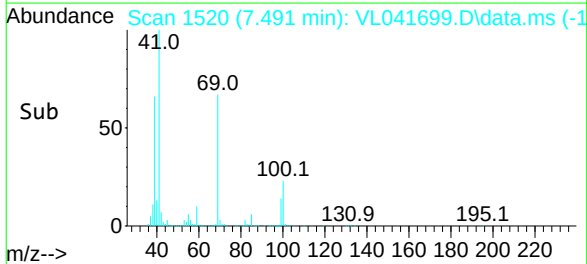
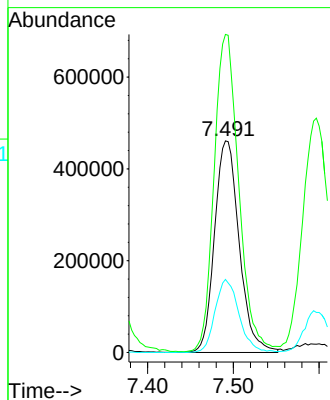
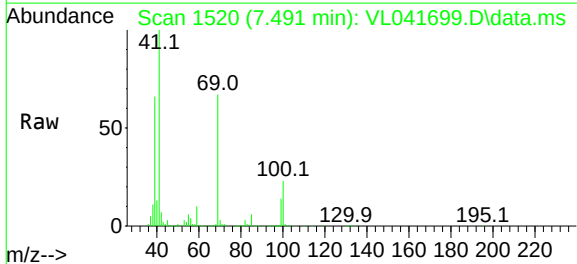
#43  
Methyl Methacrylate  
Concen: 10.923 ppbv  
RT: 7.491 min Scan# 1514  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion: 69 Resp: 920452  
Ion Ratio Lower Upper  
69 100  
41 150.9 119.8 179.6  
100 33.6 27.3 40.9

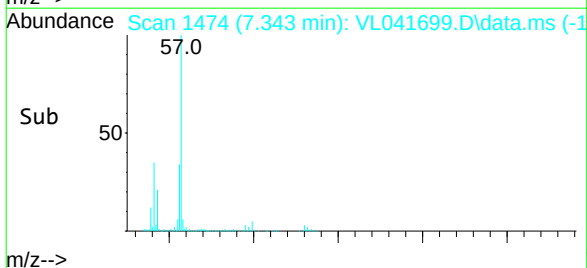
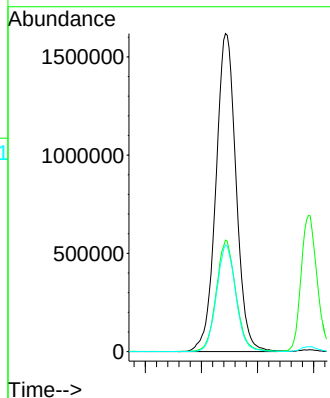
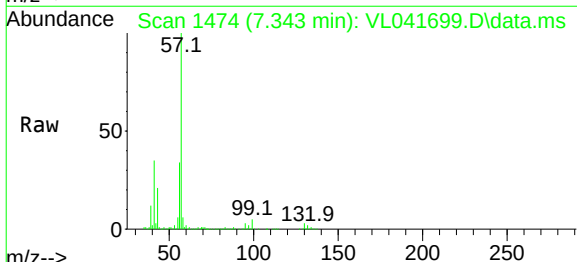
Manual Integrations  
APPROVED

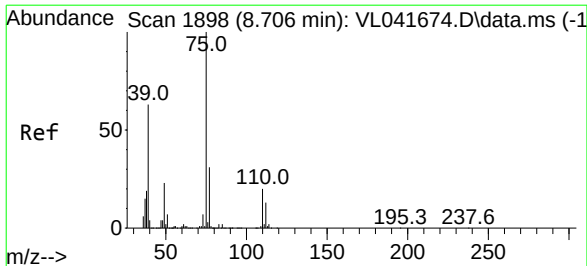
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#44  
2,2,4-Trimethylpentane  
Concen: 9.958 ppbv  
RT: 7.343 min Scan# 1474  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 57 Resp: 4048166  
Ion Ratio Lower Upper  
57 100  
41 34.0 27.0 40.6  
56 32.1 25.8 38.6





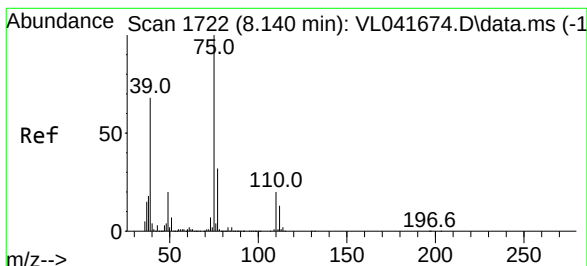
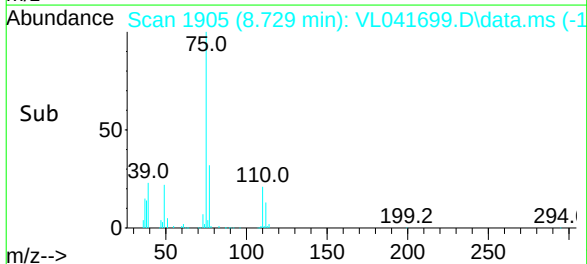
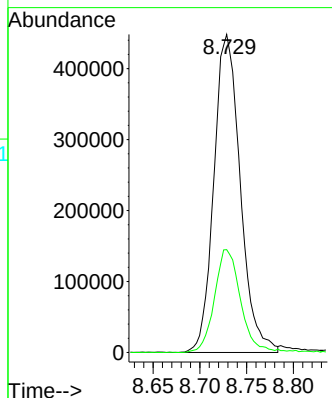
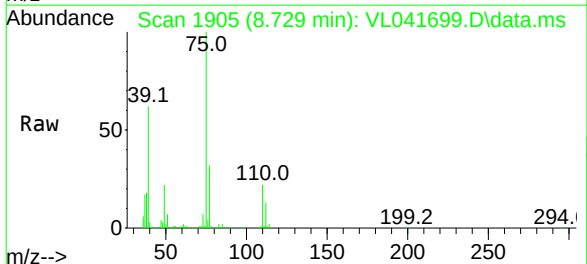
#45  
t-1,3-Dichloropropene  
Concen: 11.439 ppbv  
RT: 8.729 min Scan# 19  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion: 75 Resp: 880781  
Ion Ratio Lower Upper  
75 100  
77 32.3 24.7 37.1

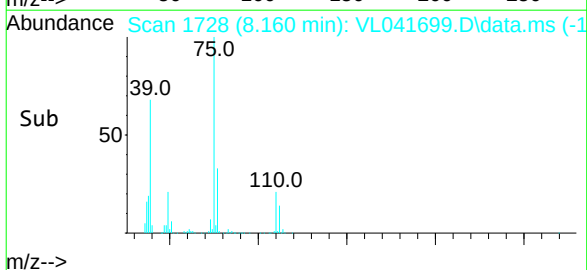
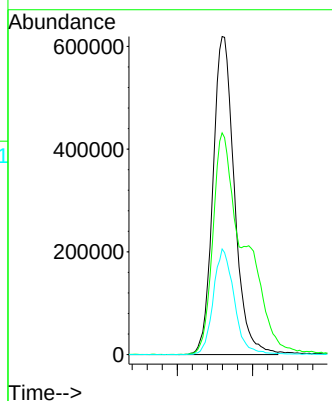
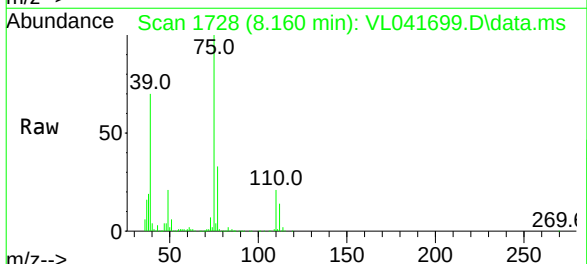
Manual Integrations  
APPROVED

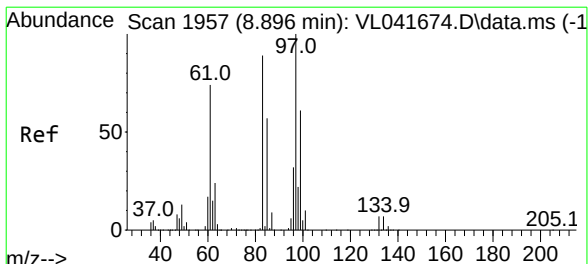
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#46  
cis-1,3-Dichloropropene  
Concen: 11.089 ppbv  
RT: 8.160 min Scan# 1728  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

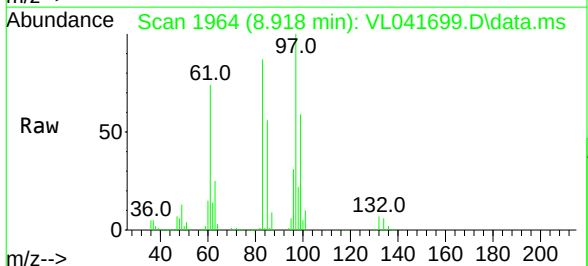
Tgt Ion: 75 Resp: 1226432  
Ion Ratio Lower Upper  
75 100  
39 69.6 54.1 81.1  
77 33.2 25.3 37.9





#47  
 1,1,2-Trichloroethane  
 Concen: 9.776 ppbv  
 RT: 8.918 min Scan# 1957  
 Delta R.T. 0.023 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

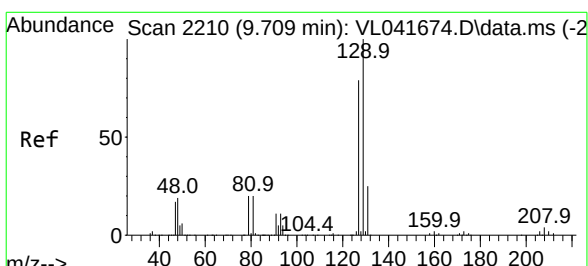
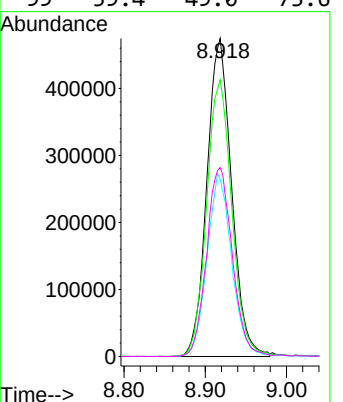
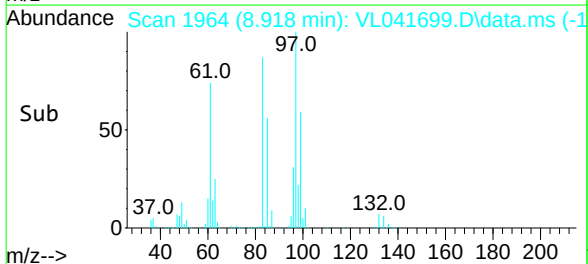
Instrument : MSVOA\_L  
 ClientSampleId : VL1120ABS01



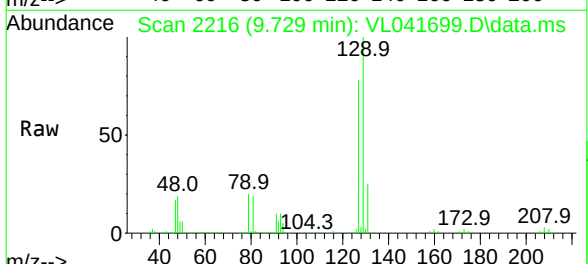
Tgt Ion: 97 Resp: 1003450

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 87.0  | 71.0  | 106.6 |
| 85  | 55.7  | 45.4  | 68.2  |
| 99  | 59.4  | 49.0  | 73.6  |

Manual Integrations  
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 Reviewed By :Semsettin Yesilyurt 11/21/2024  
 Supervised By :Mahesh Dadoda 11/21/2024

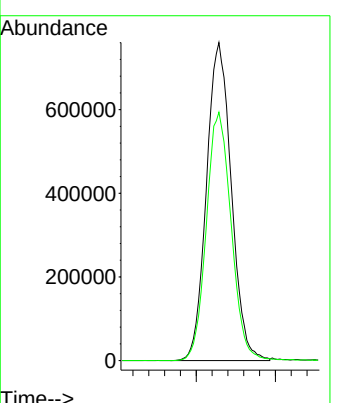
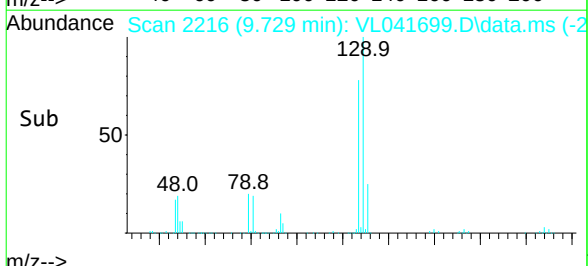


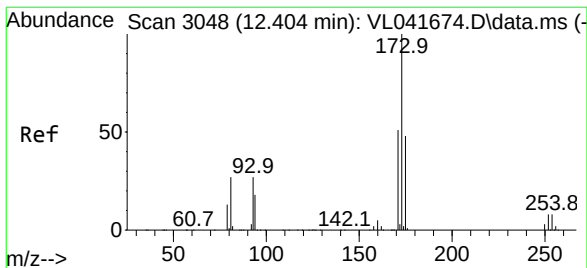
#48  
 Dibromochloromethane  
 Concen: 10.628 ppbv  
 RT: 9.729 min Scan# 2216  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15



Tgt Ion:129 Resp: 1658425

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.3  | 39.1  | 117.2 |





#49

Bromoform

Concen: 11.123 ppbv

RT: 12.423 min Scan# 3048

Delta R.T. 0.019 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

Instrument :

MSVOA\_L

ClientSampleId :

VL1120ABS01

Tgt Ion: 173 Resp: 1485005

Ion Ratio Lower Upper

173 100

175 48.9 39.2 58.8

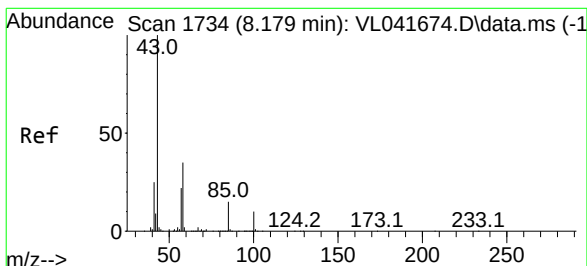
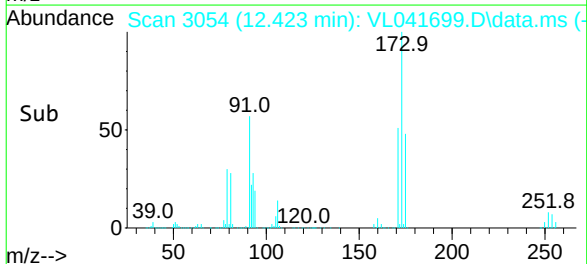
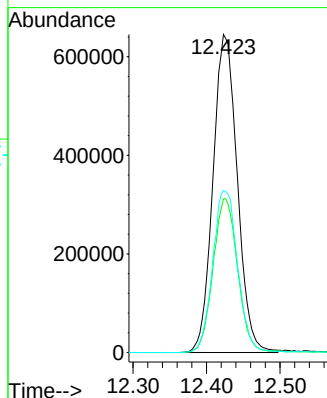
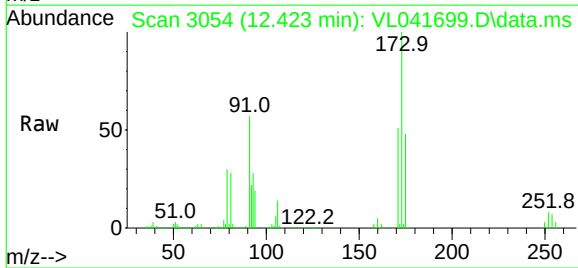
171 52.3 41.7 62.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/21/2024

Supervised By :Mahesh Dadoda 11/21/2024



#50

4-Methyl-2-Pentanone

Concen: 10.473 ppbv

RT: 8.198 min Scan# 1740

Delta R.T. 0.019 min

Lab File: VL041699.D

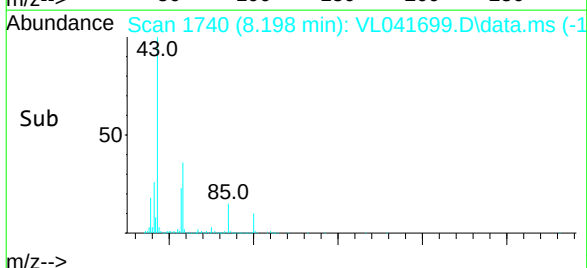
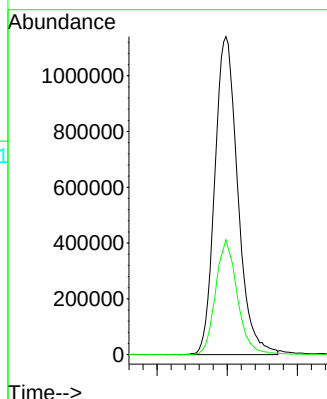
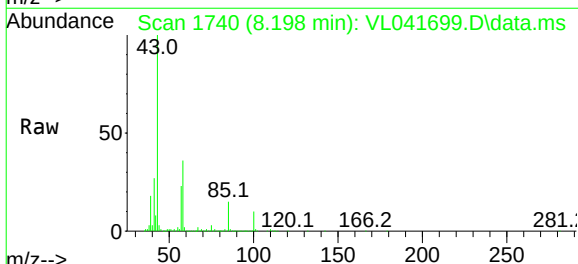
Acq: 20 Nov 2024 13:15

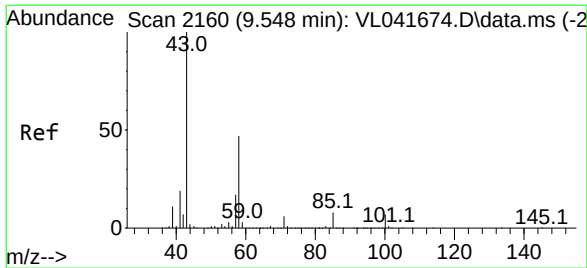
Tgt Ion: 43 Resp: 2593146

Ion Ratio Lower Upper

43 100

58 34.3 27.7 41.5





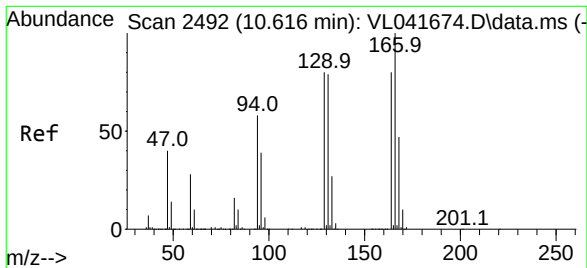
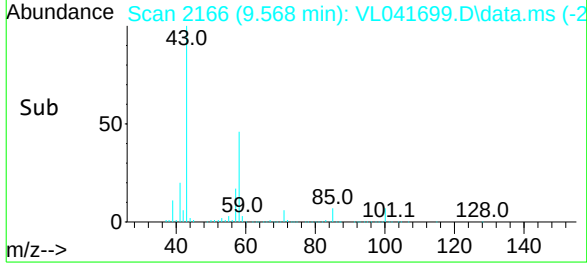
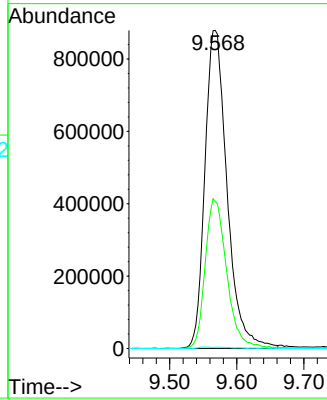
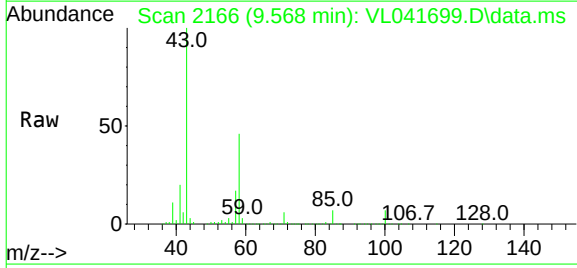
#51  
2-Hexanone  
Concen: 11.196 ppbv  
RT: 9.568 min Scan# 2160  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion: 43 Resp: 2018735  
Ion Ratio Lower Upper  
43 100  
58 46.0 37.0 55.6  
98 0.6 0.6 0.8

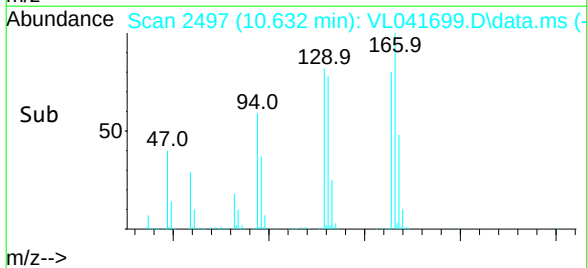
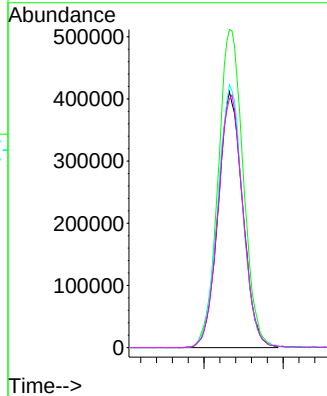
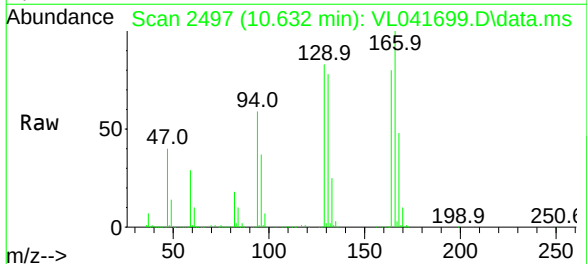
Manual Integrations  
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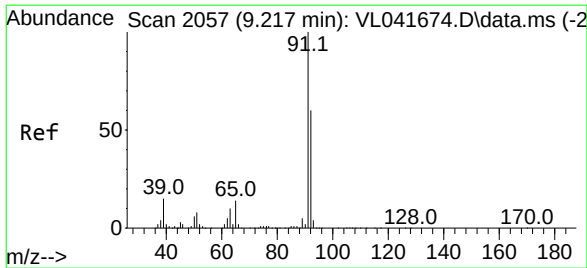
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#52  
Tetrachloroethene  
Concen: 10.856 ppbv  
RT: 10.632 min Scan# 2497  
Delta R.T. 0.016 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

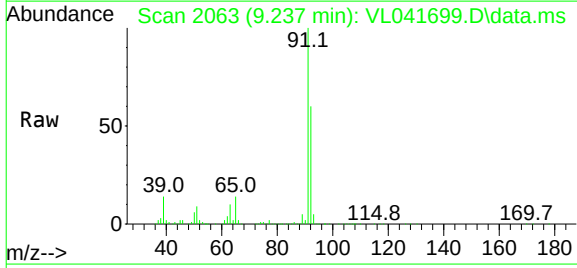
Tgt Ion:164 Resp: 887903  
Ion Ratio Lower Upper  
164 100  
166 124.3 100.2 150.4  
129 102.7 79.7 119.5  
131 97.2 79.0 118.4





#53  
Toluene  
Concen: 11.016 ppbv  
RT: 9.237 min Scan# 2057  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

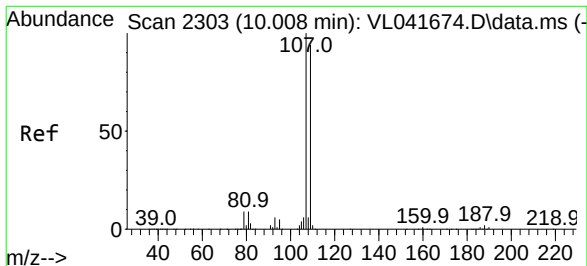
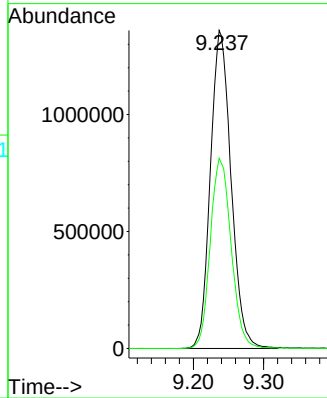
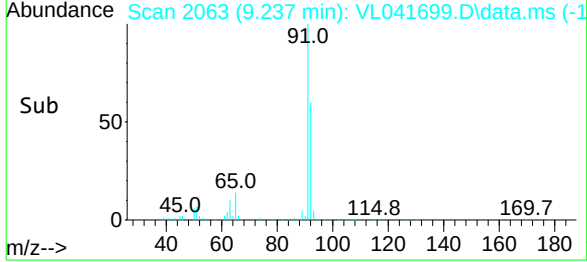
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



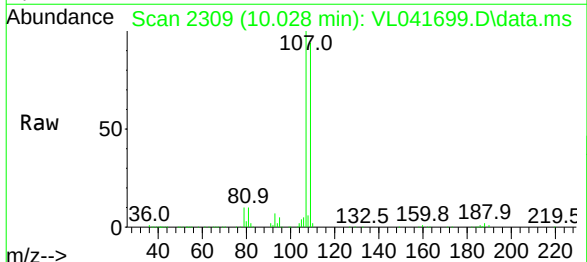
Tgt Ion: 91 Resp: 2780287  
Ion Ratio Lower Upper  
91 100  
92 60.6 49.0 73.4

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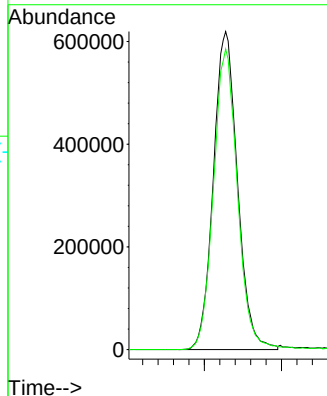
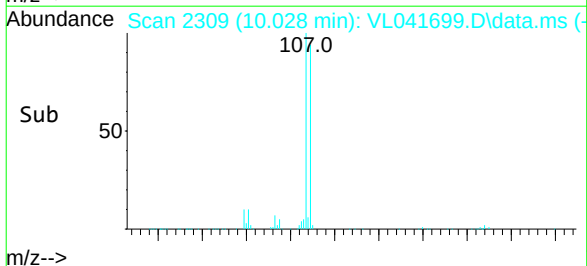
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



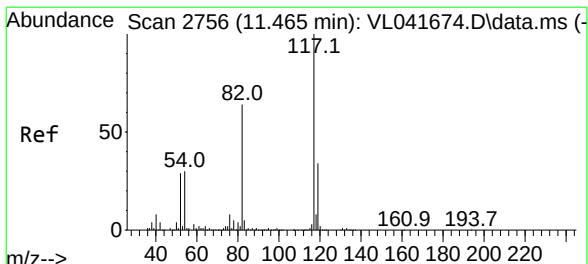
#54  
1,2-Dibromoethane  
Concen: 11.206 ppbv  
RT: 10.028 min Scan# 2309  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15



Tgt Ion:107 Resp: 1343883  
Ion Ratio Lower Upper  
107 100  
109 94.5 74.9 112.3

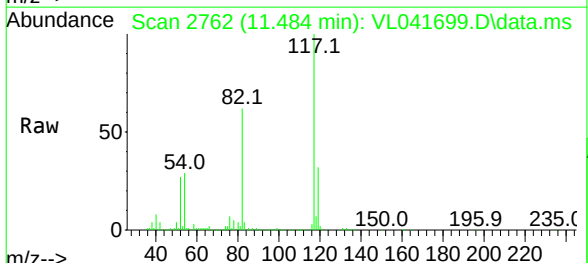






#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv m  
 RT: 11.484 min Scan# 2756  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1120ABS01

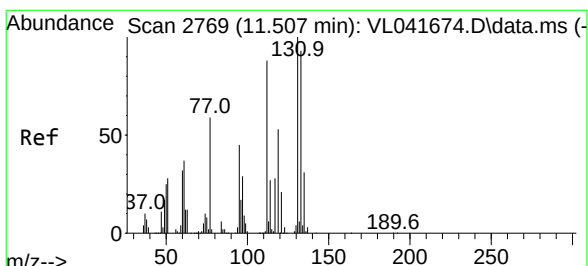
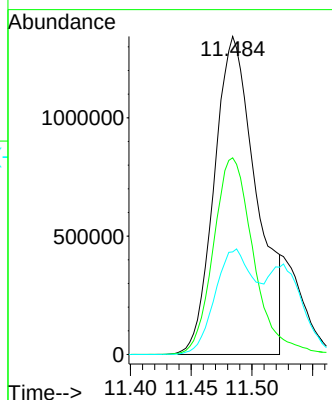
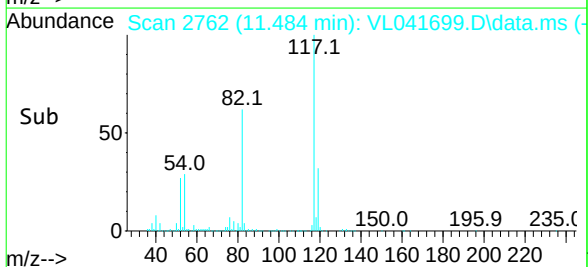


Tgt Ion:117 Resp: 3236609

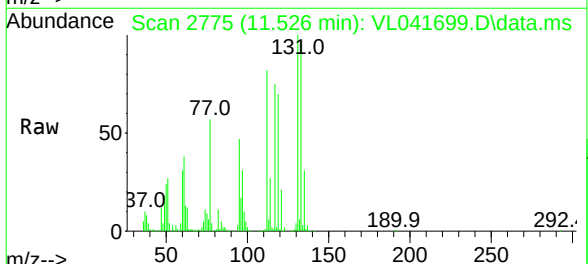
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 59.8  | 49.8  | 74.8  |
| 119 | 30.4  | 24.2  | 36.4  |

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Reviewed By :Semsettin Yesilyurt 11/21/2024  
 Supervised By :Mahesh Dadoda 11/21/2024

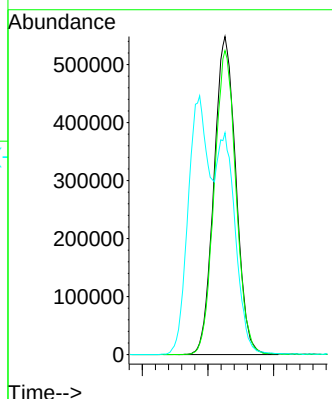
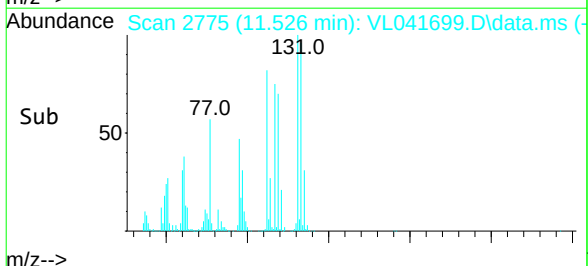


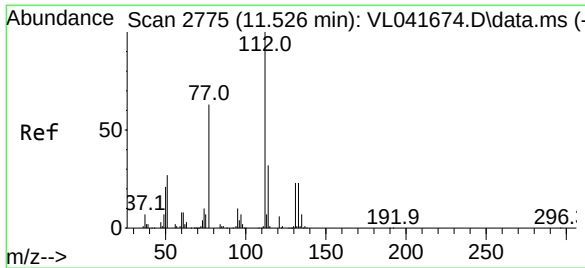
#56  
 1,1,1,2-Tetrachloroethane  
 Concen: 9.534 ppbv  
 RT: 11.526 min Scan# 2775  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15



Tgt Ion:131 Resp: 1272657

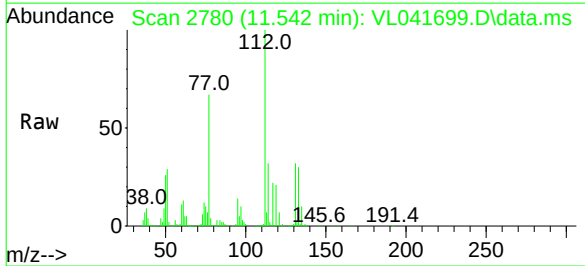
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 131 | 100   |       |       |
| 133 | 94.6  | 76.5  | 114.7 |
| 119 | 63.0  | 49.8  | 74.8  |





#57  
Chlorobenzene  
Concen: 9.291 ppbv  
RT: 11.542 min Scan# 2775  
Delta R.T. 0.016 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

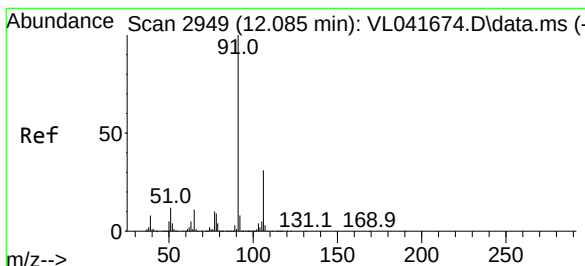
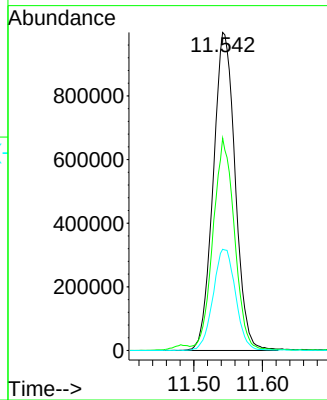
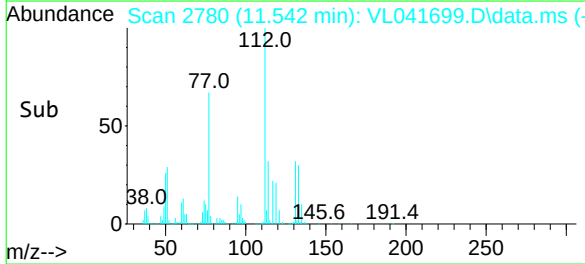
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



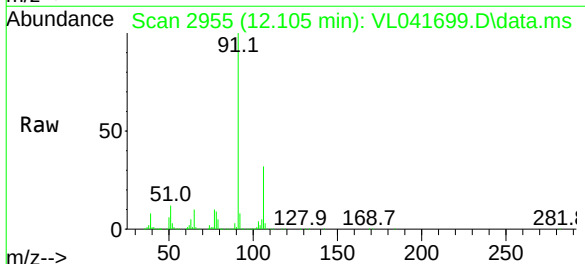
Tgt Ion: 112 Resp: 2224042  
Ion Ratio Lower Upper  
112 100  
77 66.4 51.4 77.2  
114 31.8 28.4 34.8

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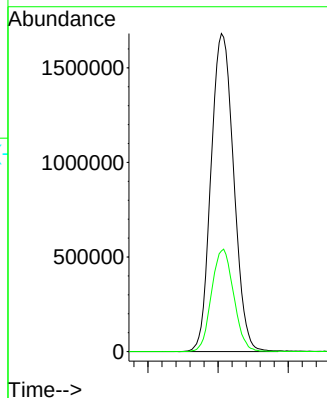
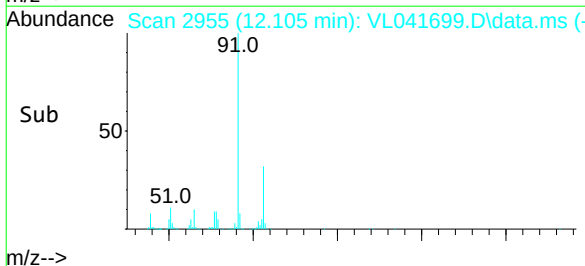
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

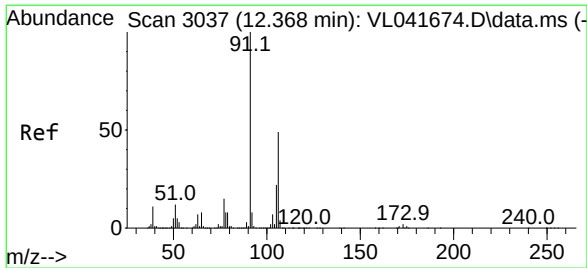


#58  
Ethyl Benzene  
Concen: 10.650 ppbv  
RT: 12.105 min Scan# 2955  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15



Tgt Ion: 91 Resp: 3779084  
Ion Ratio Lower Upper  
91 100  
106 31.6 24.9 37.3





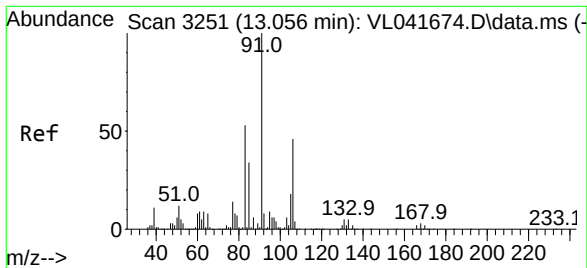
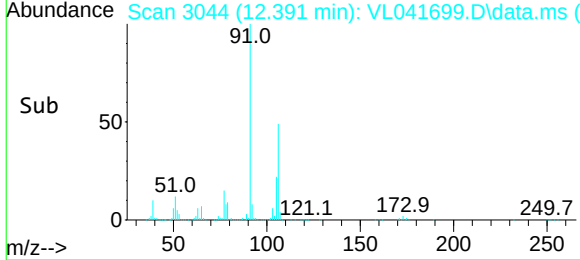
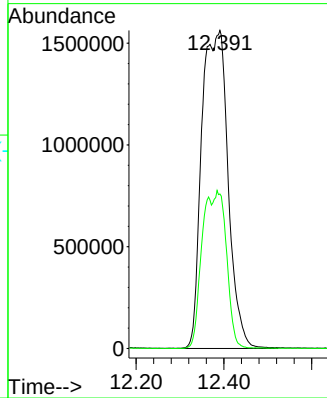
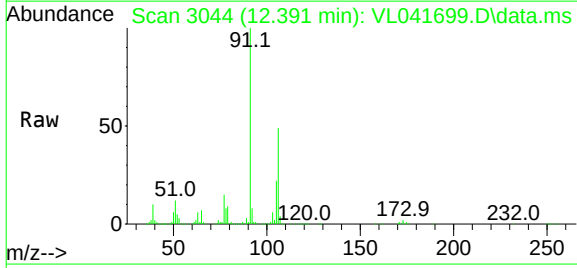
#59  
m/p-Xylene  
Concen: 20.446 ppbv m  
RT: 12.391 min Scan# 3037  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion: 91 Resp: 6496748  
Ion Ratio Lower Upper  
91 100  
106 45.9 36.9 55.3

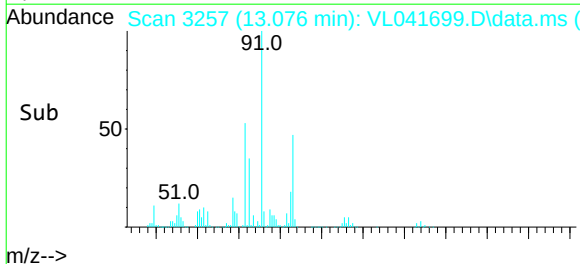
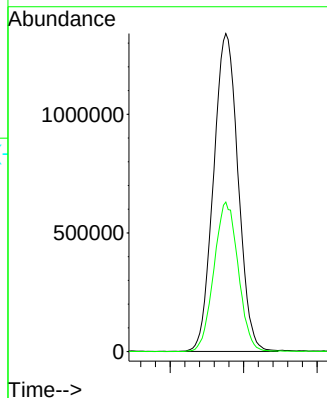
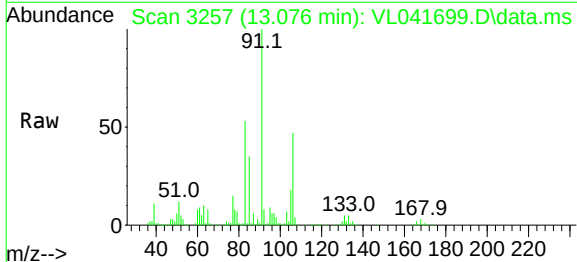
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APPROVED

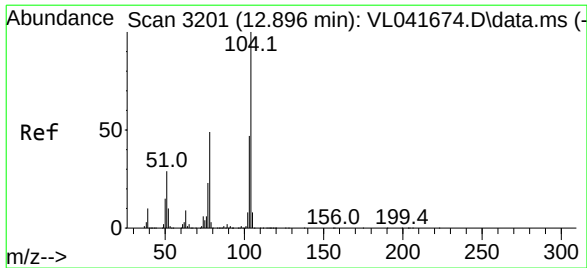
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#60  
o-Xylene  
Concen: 10.271 ppbv  
RT: 13.076 min Scan# 3257  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

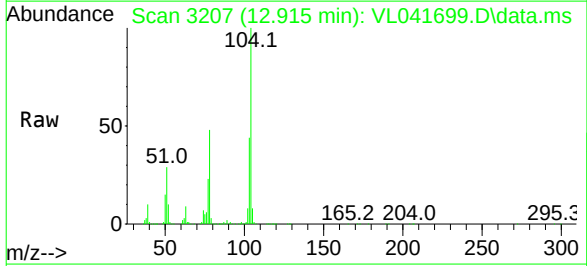
Tgt Ion: 91 Resp: 3111959  
Ion Ratio Lower Upper  
91 100  
106 46.6 23.2 69.6





#61  
**Styrene**  
 Concen: 12.024 ppbv  
 RT: 12.915 min Scan# 3207  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

Instrument : MSVOA\_L  
 ClientSampleId : VL1120ABS01

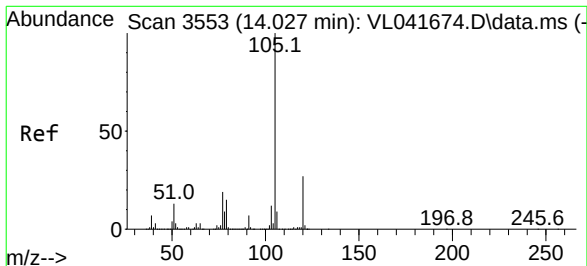
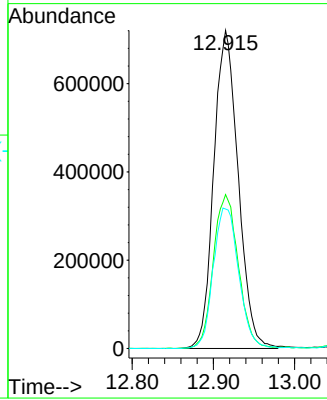
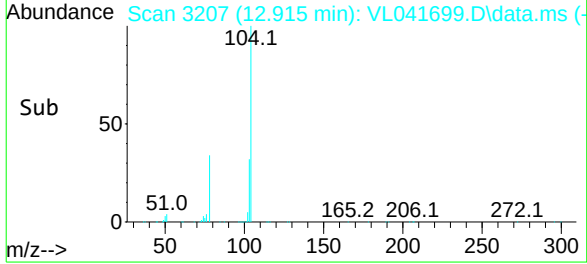


Tgt Ion: 104 Resp: 1503740  

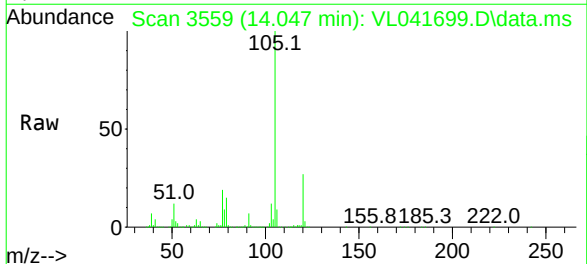
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 104 | 100   |       |       |
| 78  | 49.9  | 39.8  | 59.8  |
| 103 | 46.4  | 37.4  | 56.0  |

Manual Integrations  
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Reviewed By : Semsettin Yesilyurt 11/21/2024  
 Supervised By : Mahesh Dadoda 11/21/2024

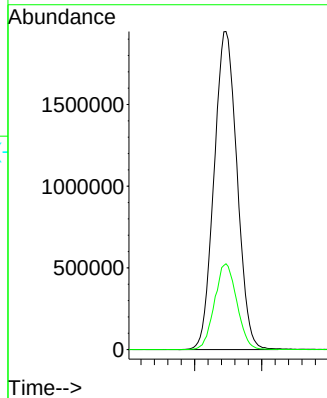
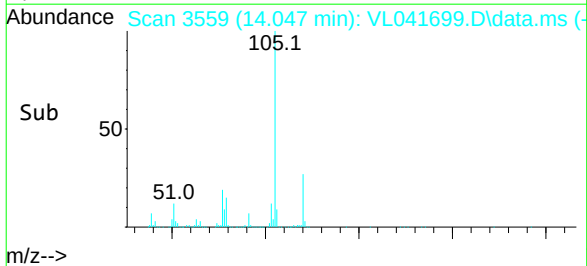


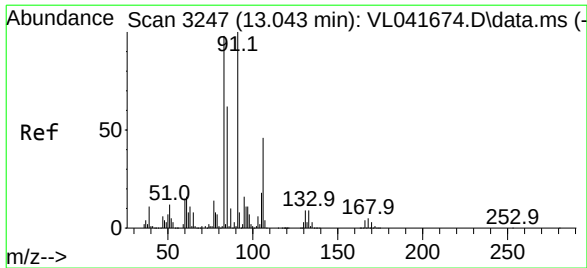
#62  
**Isopropylbenzene**  
 Concen: 9.890 ppbv  
 RT: 14.047 min Scan# 3559  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15



Tgt Ion: 105 Resp: 4628133  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 26.2  | 21.1  | 31.7  |





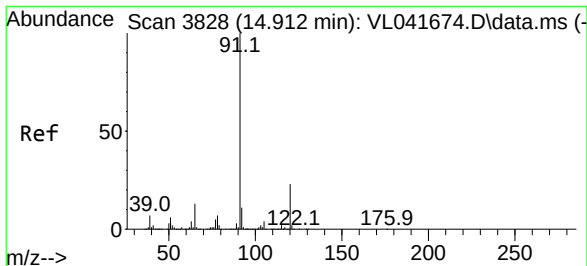
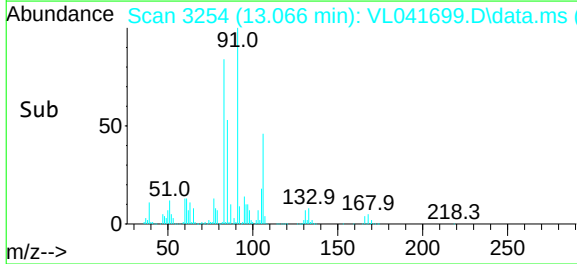
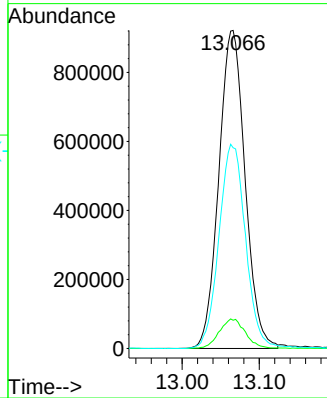
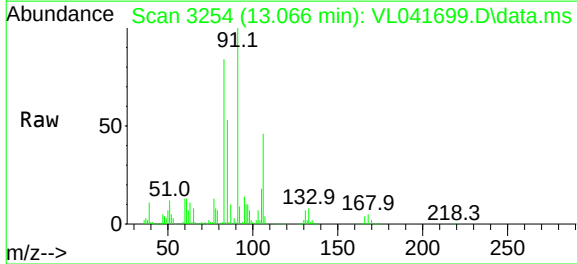
#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.779 ppbv  
RT: 13.066 min Scan# 3247  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion: 83 Resp: 2179613  
Ion Ratio Lower Upper  
83 100  
131 9.4 4.8 14.3  
85 65.4 32.6 98.0

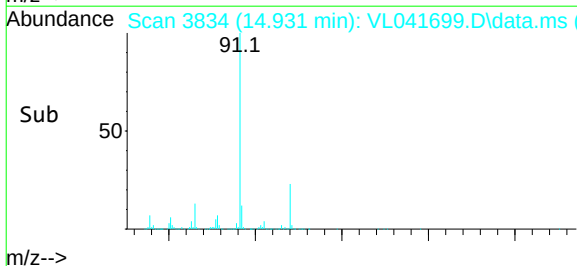
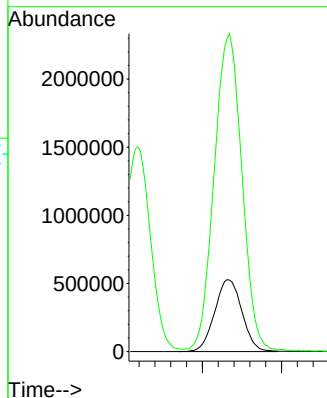
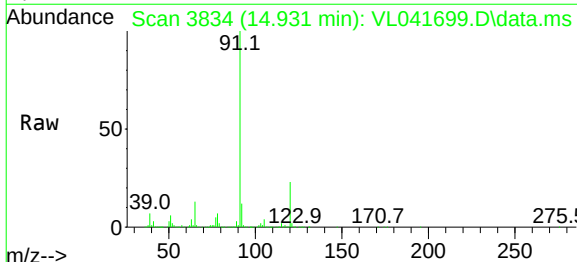
Manual Integrations  
APPROVED

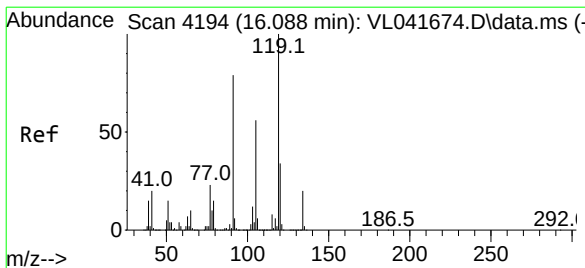
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#64  
n-propylbenzene  
Concen: 10.321 ppbv  
RT: 14.931 min Scan# 3834  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

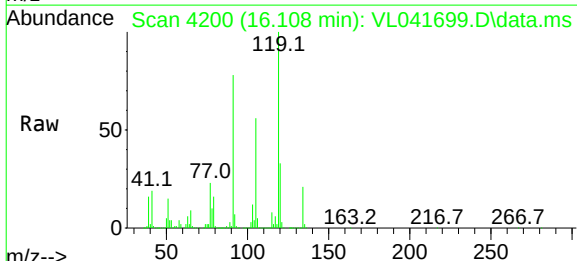
Tgt Ion:120 Resp: 1264315  
Ion Ratio Lower Upper  
120 100  
91 451.4 362.4 543.6





#65  
tert-Butylbenzene  
Concen: 9.953 ppbv  
RT: 16.108 min Scan# 42  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

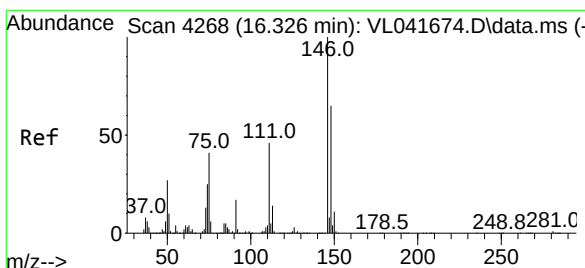
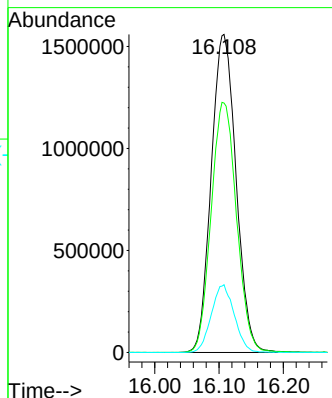
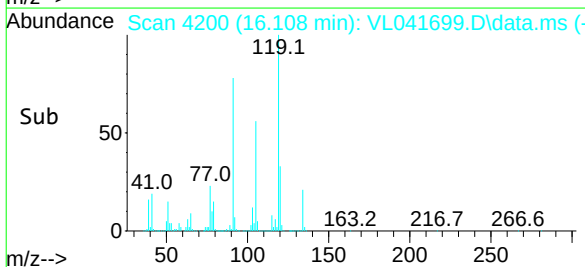
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



Tgt Ion: 119 Resp: 4185885  
Ion Ratio Lower Upper  
119 100  
91 80.3 64.3 96.5  
134 19.8 15.8 23.8

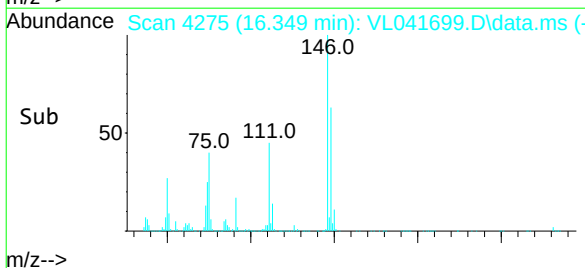
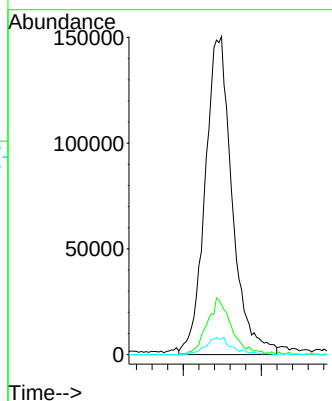
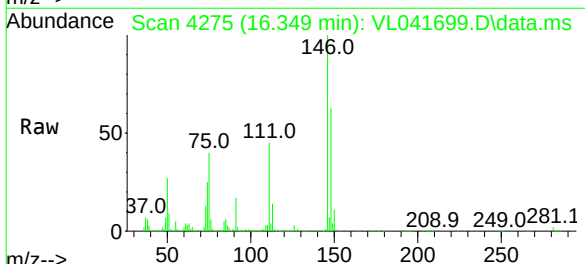
Manual Integrations  
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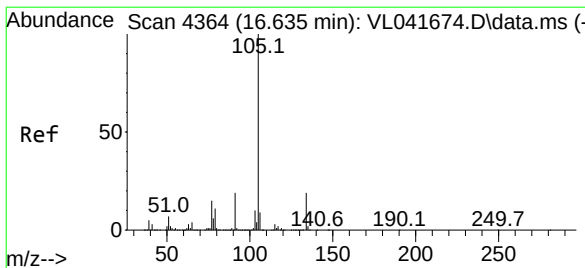
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#66  
Benzyl Chloride  
Concen: 11.200 ppbv m  
RT: 16.349 min Scan# 4275  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 91 Resp: 362387  
Ion Ratio Lower Upper  
91 100  
126 16.5 13.8 20.6  
128 5.3 4.3 6.5





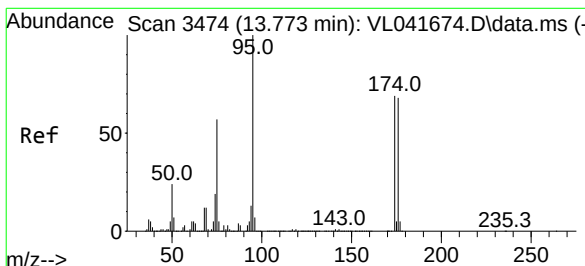
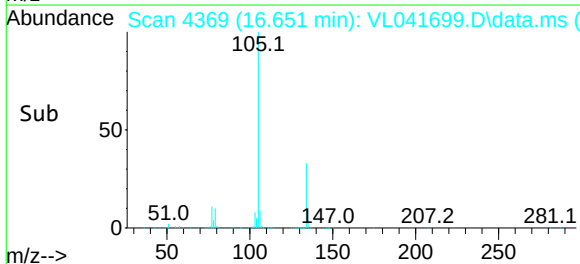
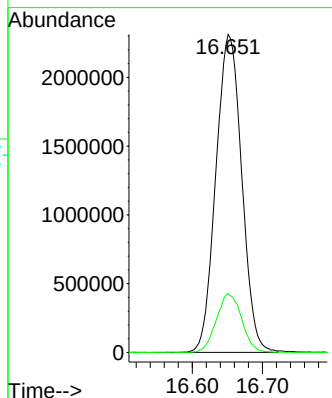
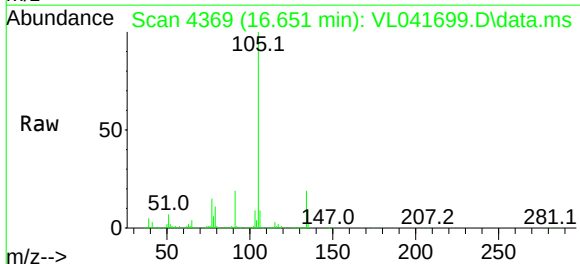
#67  
sec-Butylbenzene  
Concen: 9.974 ppbv  
RT: 16.651 min Scan# 4364  
Delta R.T. 0.016 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion:105 Resp: 5912468  
Ion Ratio Lower Upper  
105 100  
134 18.2 14.6 22.0

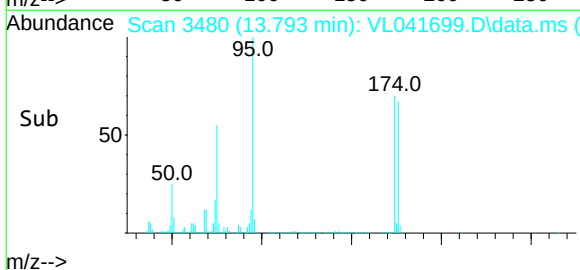
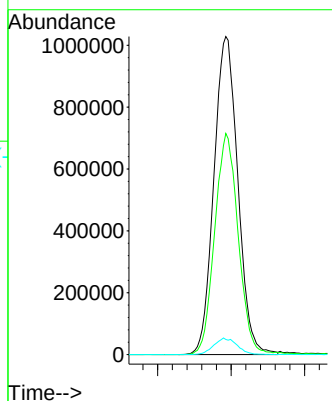
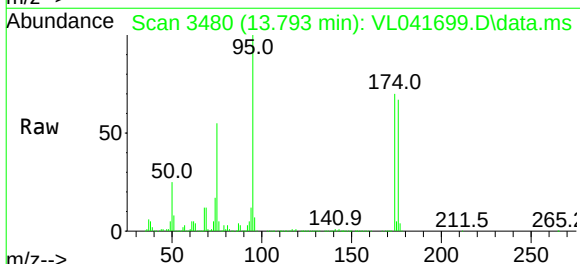
Manual Integrations  
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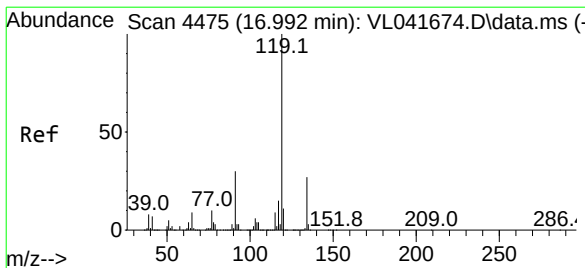
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.768 ppbv  
RT: 13.793 min Scan# 3480  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

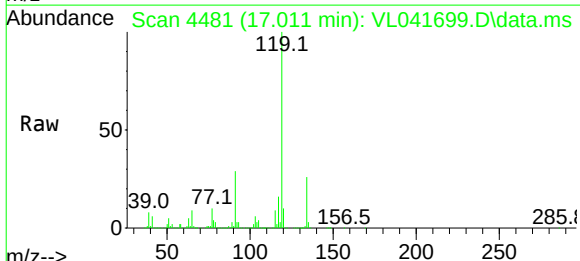
Tgt Ion: 95 Resp: 2329378  
Ion Ratio Lower Upper  
95 100  
174 68.9 55.6 83.4  
175 5.1 4.2 6.2





#69  
p-Isopropyltoluene  
Concen: 10.341 ppbv  
RT: 17.011 min Scan# 4475  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

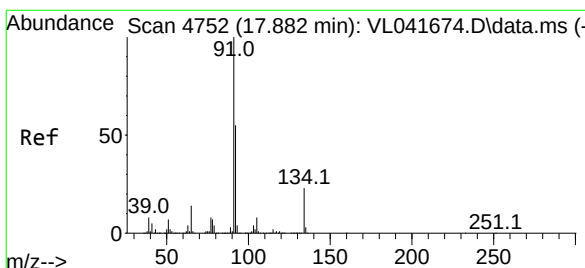
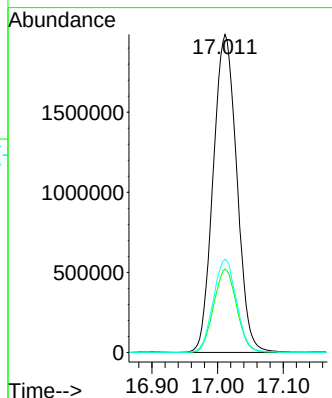
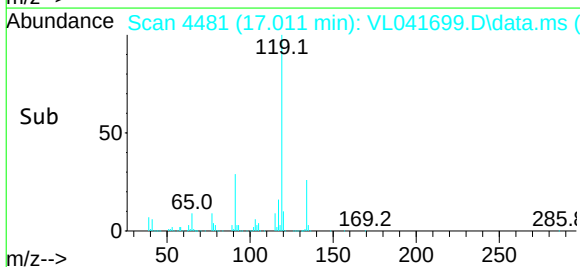
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



Tgt Ion: 119 Resp: 4955798  
Ion Ratio Lower Upper  
119 100  
134 25.7 20.8 31.2  
91 28.9 23.2 34.8

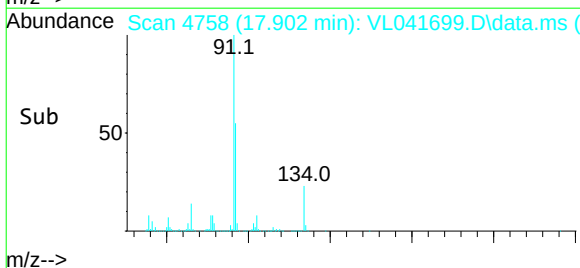
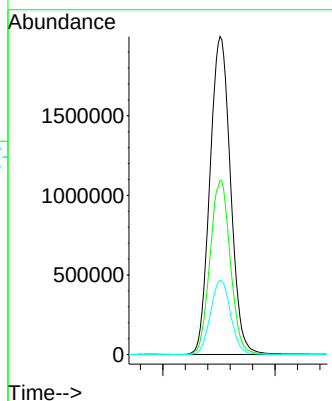
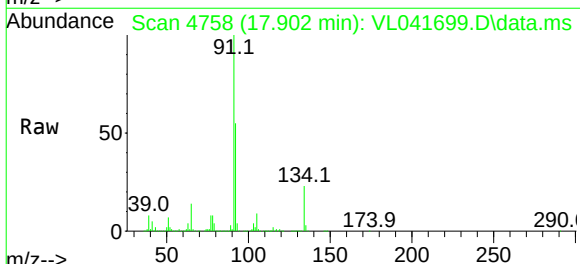
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

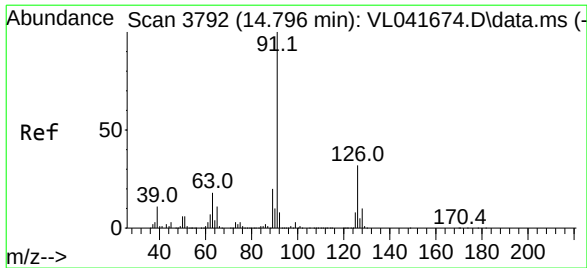


#70  
n-Butylbenzene  
Concen: 10.390 ppbv  
RT: 17.902 min Scan# 4758  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 91 Resp: 5094738  
Ion Ratio Lower Upper  
91 100  
92 54.0 43.3 64.9  
134 23.1 18.4 27.6

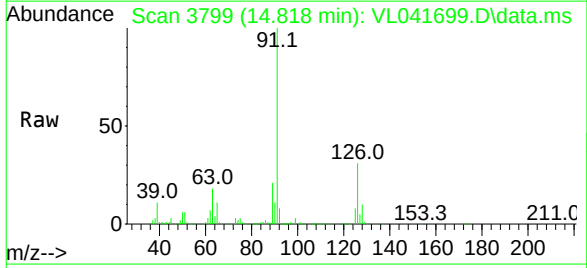






#71  
2-Chlorotoluene  
Concen: 10.366 ppbv  
RT: 14.818 min Scan# 3792  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

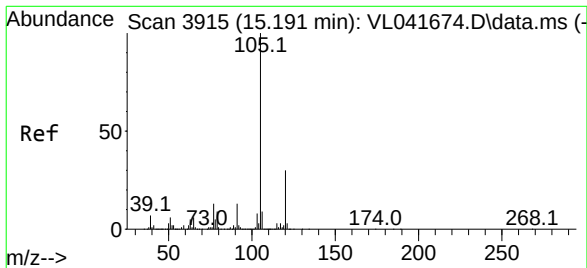
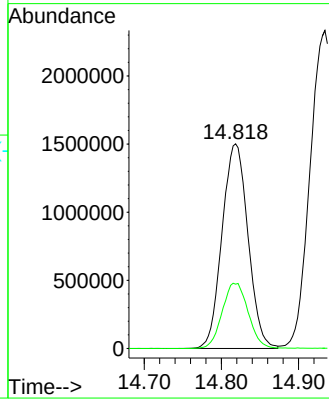
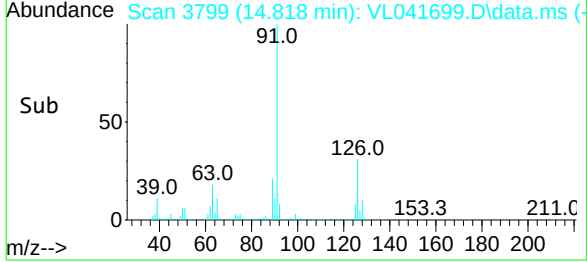
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



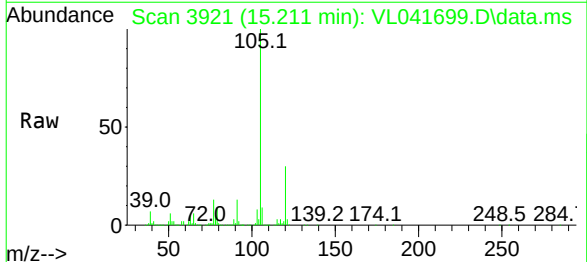
Tgt Ion: 91 Resp: 3506297  
Ion Ratio Lower Upper  
91 100  
126 32.2 12.8 51.0

Manual Integrations  
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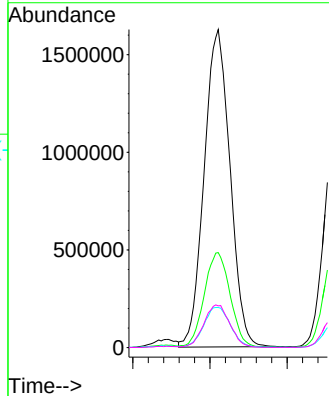
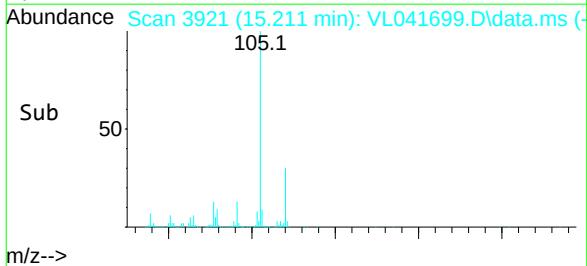
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

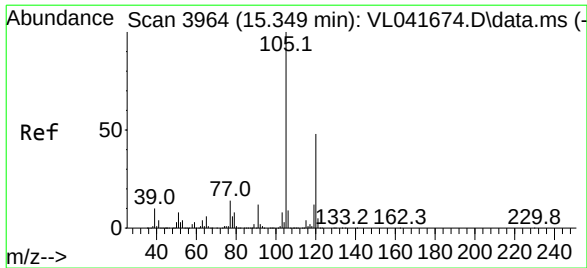


#72  
4-Ethyltoluene  
Concen: 10.760 ppbv  
RT: 15.211 min Scan# 3921  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15



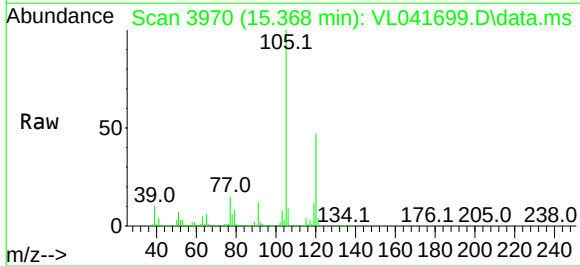
Tgt Ion:105 Resp: 3790505  
Ion Ratio Lower Upper  
105 100  
120 30.8 25.0 37.4  
91 13.1 10.6 15.8  
77 14.0 11.1 16.7





#73  
1,3,5-Trimethylbenzene  
Concen: 10.494 ppbv  
RT: 15.368 min Scan# 3964  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

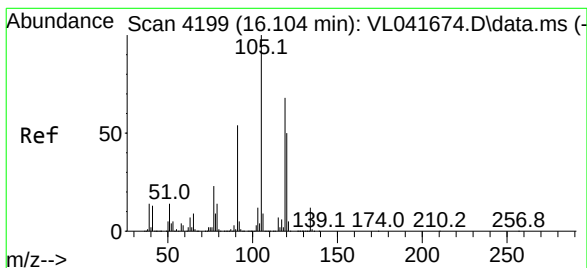
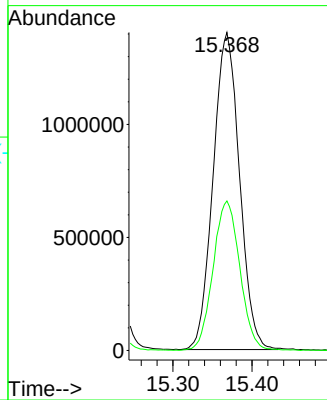
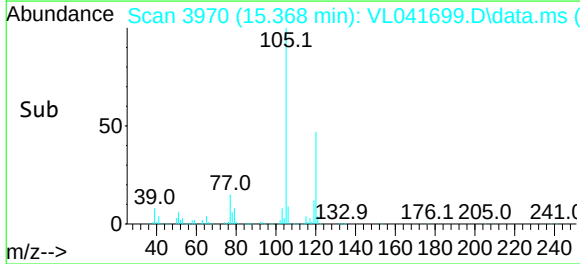
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01



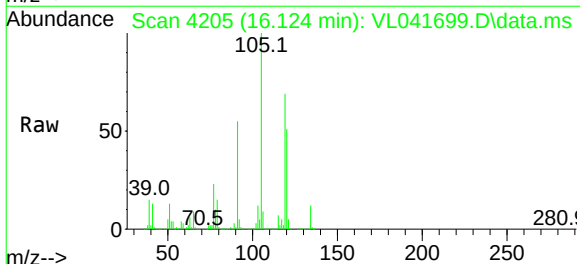
Tgt Ion:105 Resp: 3243824  
Ion Ratio Lower Upper  
105 100  
120 47.1 38.4 57.6

Manual Integrations  
APPROVED

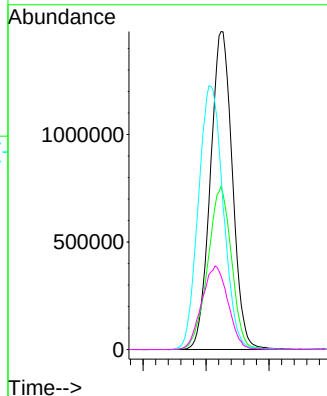
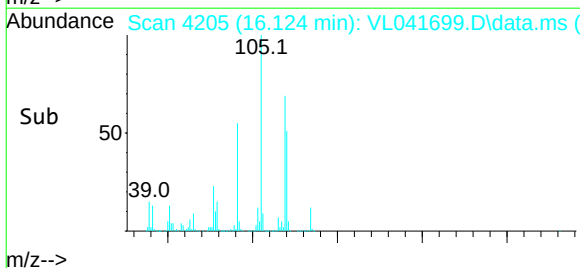
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

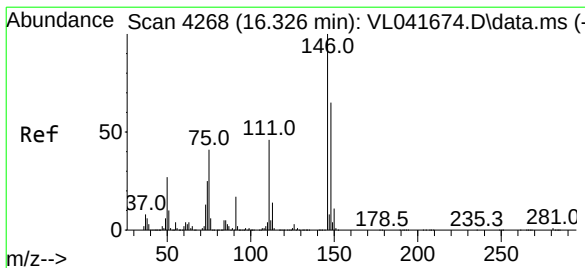


#74  
1,2,4-Trimethylbenzene  
Concen: 10.016 ppbv  
RT: 16.124 min Scan# 4205  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15



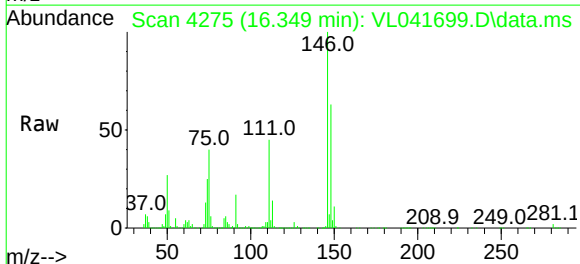
Tgt Ion:105 Resp: 3596562  
Ion Ratio Lower Upper  
105 100  
120 51.2 39.8 59.8  
91 54.9 43.2 64.8  
77 23.1 18.5 27.7





#75  
1,3-Dichlorobenzene  
Concen: 9.942 ppbv  
RT: 16.349 min Scan# 4268  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

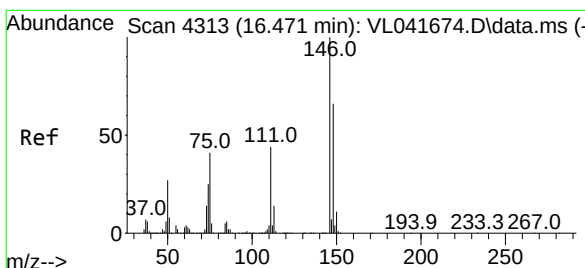
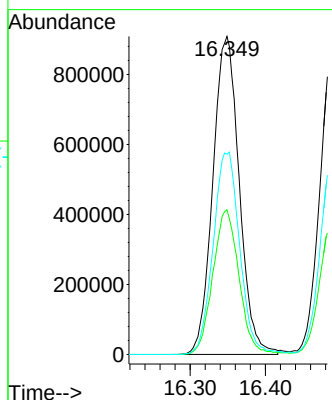
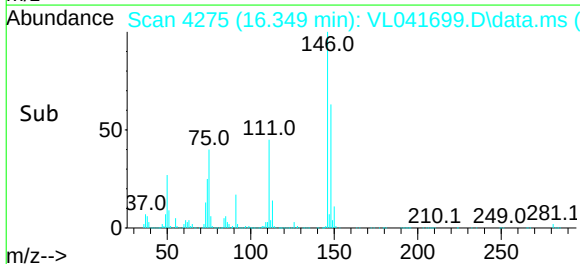
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01



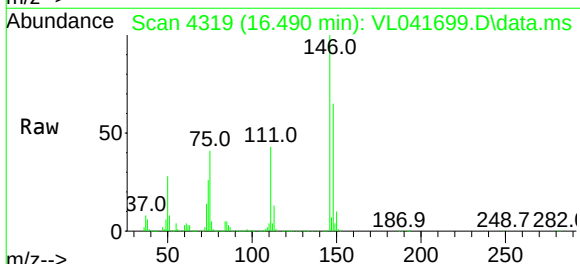
Tgt Ion:146 Resp: 2210855  
Ion Ratio Lower Upper  
146 100  
111 45.2 22.8 68.3  
148 64.1 32.4 97.0

Manual Integrations  
APPROVED

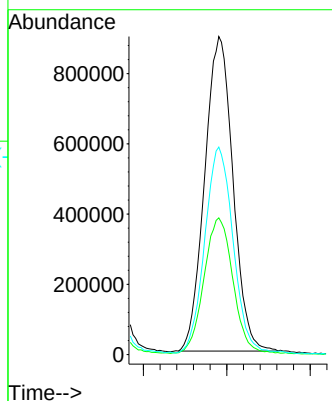
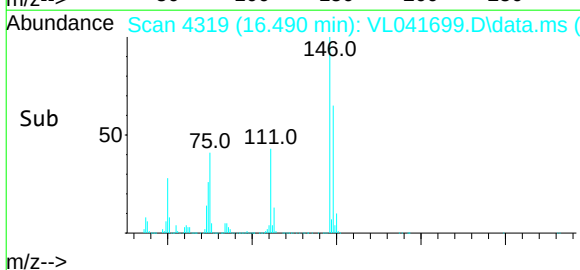
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024

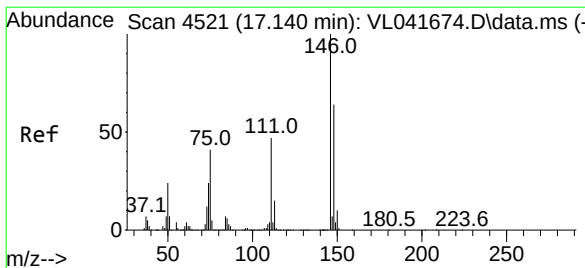


#76  
1,4-Dichlorobenzene  
Concen: 9.858 ppbv  
RT: 16.490 min Scan# 4319  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15



Tgt Ion:146 Resp: 2115126  
Ion Ratio Lower Upper  
146 100  
111 45.3 22.1 66.3  
148 67.4 33.3 99.8





#77

1,2-Dichlorobenzene

Concen: 9.780 ppbv

RT: 17.162 min Scan# 45

Delta R.T. 0.023 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

Instrument :

MSVOA\_L

ClientSampleId :

VL1120ABS01

Tgt Ion:146 Resp: 2154411

Ion Ratio Lower Upper

146 100

111 46.7 23.4 70.3

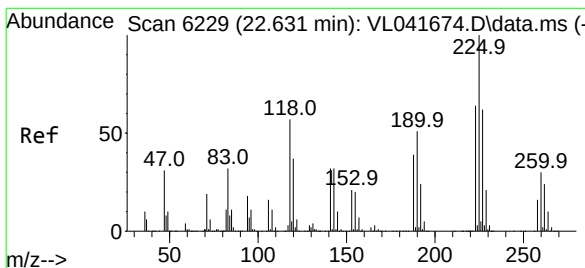
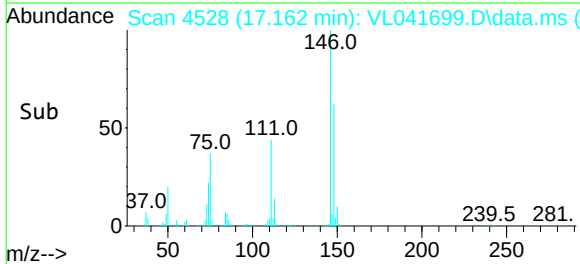
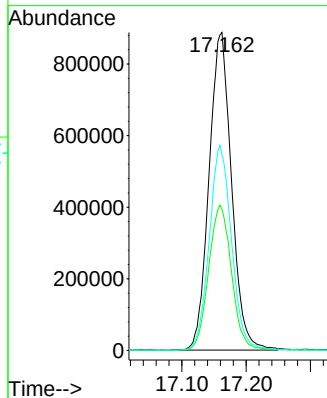
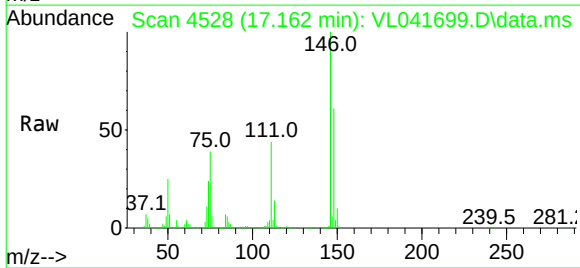
148 64.3 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024

Supervised By :Mahesh Dadoda 11/21/2024



#78

Hexachloro-1,3-Butadiene

Concen: 8.312 ppbv

RT: 22.651 min Scan# 6235

Delta R.T. 0.019 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

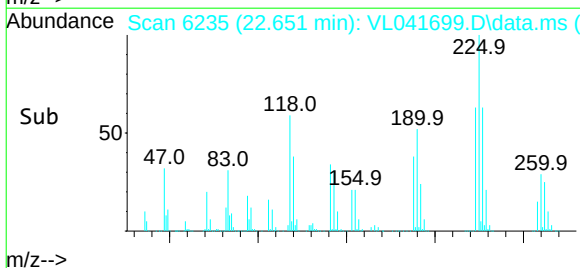
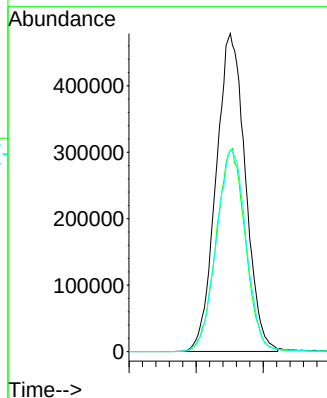
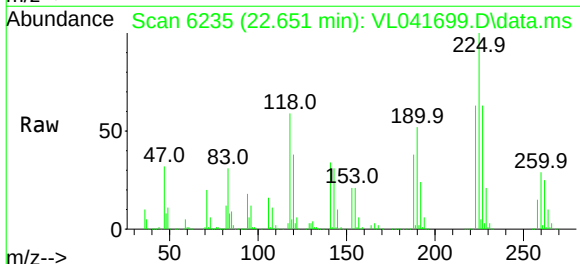
Tgt Ion:225 Resp: 1448199

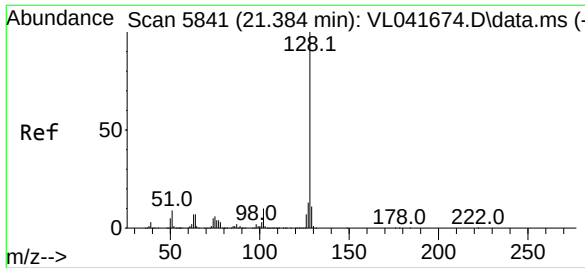
Ion Ratio Lower Upper

225 100

223 63.8 51.1 76.7

227 64.8 51.3 76.9





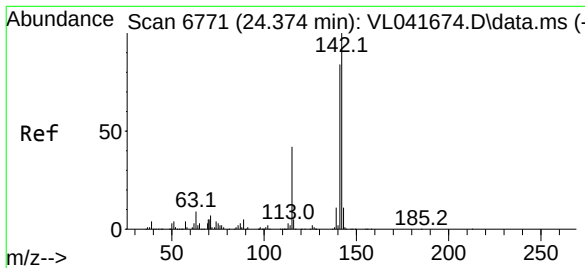
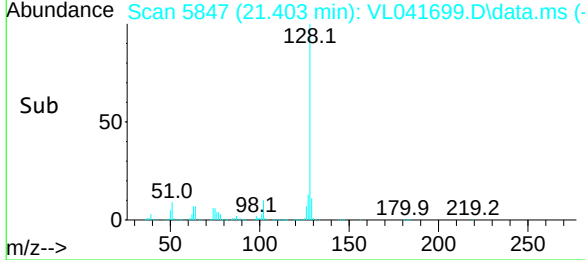
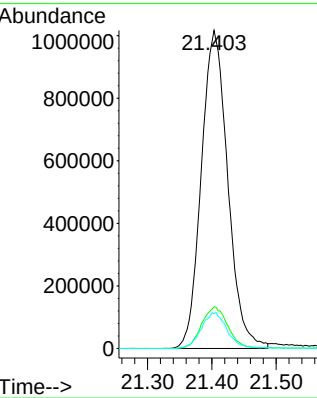
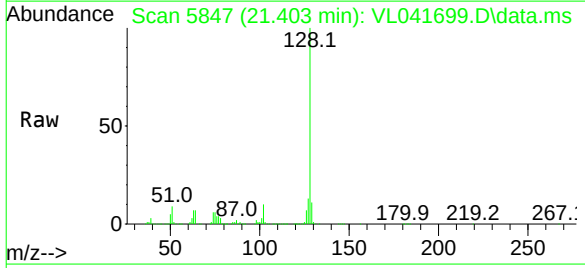
#79  
Naphthalene  
Concen: 13.117 ppbv  
RT: 21.403 min Scan# 5841  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion:128 Resp: 2907132  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.5 15.7  
129 10.9 8.7 13.1

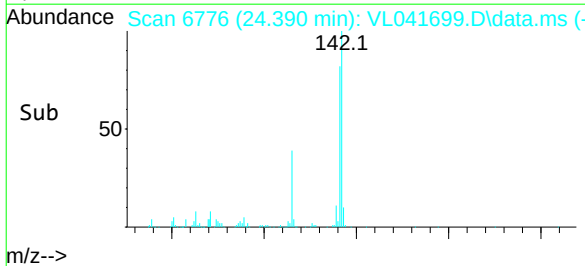
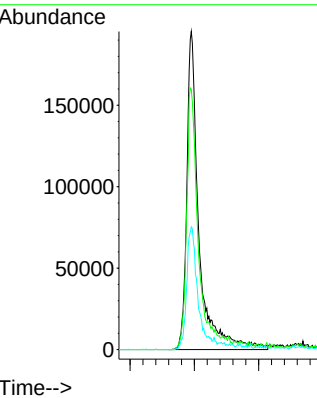
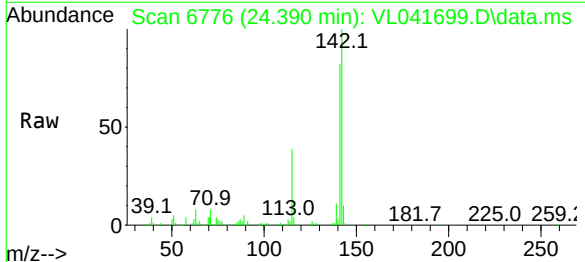
Manual Integrations  
APPROVED

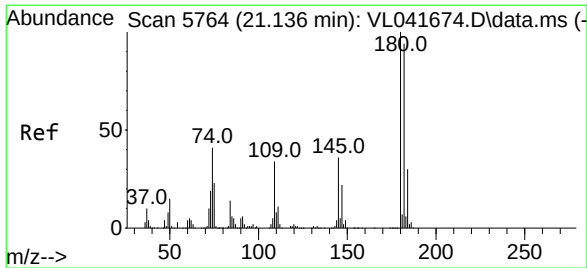
Reviewed By :Semsettin Yesilyurt 11/21/2024  
Supervised By :Mahesh Dadoda 11/21/2024



#80  
Naphthalene,2-methyl-  
Concen: 10.643 ppbv  
RT: 24.390 min Scan# 6776  
Delta R.T. 0.016 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

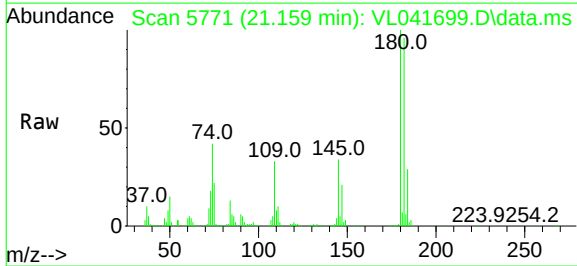
Tgt Ion:142 Resp: 514199  
Ion Ratio Lower Upper  
142 100  
141 79.1 68.1 102.1  
115 37.3 33.1 49.7





#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.513 ppbv  
 RT: 21.159 min Scan# 57  
 Delta R.T. 0.023 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

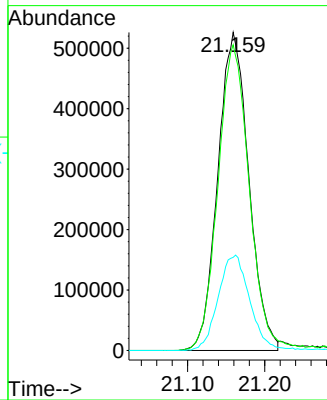
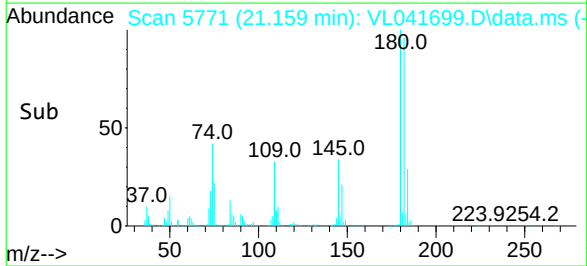
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1120ABS01



|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 180   | Resp: | 1465322 |
| Ion Ratio | Lower | Upper |         |
| 180       | 100   |       |         |
| 182       | 97.9  | 78.2  | 117.2   |
| 184       | 30.8  | 25.0  | 37.4    |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2024  
 Supervised By :Mahesh Dadoda 11/21/2024



## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: |              |
| Project:           | NJ Air PT                 | Date Received:  |              |
| Client Sample ID:  | VL1121ABS01               | SDG No.:        | P4633        |
| Lab Sample ID:     | VL1121ABS01               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400 Units: mL             |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041713.D        | 1         |           | 11/21/24 10:16 | VL112124      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-45-6        | Chlorodifluoromethane          | 8.70          | 30.8           |           | 0.32  | 1.77       | ug/m3 |
| 75-71-8        | Dichlorodifluoromethane        | 7.90          | 39.1           |           | 1.04  | 2.47       | ug/m3 |
| 64-17-5        | Ethanol                        | 5.00          | 9.42           |           | 0.60  | 0.94       | ug/m3 |
| 74-87-3        | Chloromethane                  | 9.10          | 18.8           |           | 0.21  | 1.03       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 9.70          | 24.8           |           | 0.030 | 0.080      | ug/m3 |
| 141-78-6       | Ethyl Acetate                  | 9.30          | 36.9           |           | 0.32  | 1.98       | ug/m3 |
| 74-83-9        | Bromomethane                   | 8.10          | 31.4           |           | 0.54  | 1.94       | ug/m3 |
| 75-00-3        | Chloroethane                   | 9.20          | 24.3           |           | 0.45  | 1.32       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 10.4          | 30.7           |           | 0.38  | 1.47       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 9.20          | 51.7           |           | 0.90  | 2.81       | ug/m3 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 9.40          | 72.0           |           | 1.23  | 3.83       | ug/m3 |
| 76-14-2        | Dichlorotetrafluoroethane      | 9.00          | 62.9           |           | 0.63  | 3.49       | ug/m3 |
| 593-60-2       | Bromoethene                    | 9.30          | 40.7           |           | 0.52  | 2.19       | ug/m3 |
| 115-07-1       | Propene                        | 9.10          | 15.6           |           | 0.26  | 0.86       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 9.40          | 28.5           |           | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 10.1          | 41.4           |           | 0.45  | 2.05       | ug/m3 |
| 67-63-0        | Isopropyl Alcohol              | 9.40          | 23.1           |           | 0.17  | 1.23       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 9.40          | 37.3           |           | 0.56  | 1.98       | ug/m3 |
| 67-64-1        | Acetone                        | 8.80          | 20.9           |           | 0.57  | 1.19       | ug/m3 |
| 75-15-0        | Carbon Disulfide               | 10.6          | 33.0           |           | 0.50  | 1.56       | ug/m3 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 9.40          | 33.9           |           | 0.43  | 1.80       | ug/m3 |
| 75-09-2        | Methylene Chloride             | 8.70          | 30.2           |           | 0.66  | 1.74       | ug/m3 |
| 156-60-5       | trans-1,2-Dichloroethene       | 9.50          | 37.7           |           | 0.75  | 1.98       | ug/m3 |
| 108-05-4       | Vinyl Acetate                  | 12.3          | 44.3           |           | 0.58  | 1.80       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 9.30          | 37.6           |           | 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                     | 9.00          | 26.5           |           | 0.35  | 1.47       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 10.4          | 65.4           |           | 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                     | 9.20          | 44.9           |           | 0.39  | 2.44       | ug/m3 |
| 71-55-6        | 1,1,1-Trichloroethane          | 10.0          | 54.6           |           | 0.050 | 0.16       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 9.80          | 45.8           |           | 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             | 9.70          | 39.3           |           | 0.36  | 2.02       | ug/m3 |
| 79-01-6        | Trichloroethene                | 14.3          | 76.8           |           | 0.11  | 0.16       | ug/m3 |

## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: |              |
| Project:           | NJ Air PT                 | Date Received:  |              |
| Client Sample ID:  | VL1121ABS01               | SDG No.:        | P4633        |
| Lab Sample ID:     | VL1121ABS01               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400 Units: mL             |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041713.D        | 1         |           | 11/21/24 10:16 | VL112124      |

| CAS Number  | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|-------------|---------------------------|---------------|----------------|-----------|-----|------------|-------|
| 78-87-5     | 1,2-Dichloropropane       | 9.60          | 44.4           | 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      | 10.4          | 42.6           | 0.37      |     | 2.05       | ug/m3 |
| 108-88-3    | Toluene                   | 10.7          | 40.3           | 0.41      |     | 1.88       | ug/m3 |
| 10061-02-6  | t-1,3-Dichloropropene     | 9.90          | 44.9           | 0.27      |     | 2.27       | ug/m3 |
| 10061-01-5  | cis-1,3-Dichloropropene   | 10.2          | 46.3           | 0.27      |     | 2.27       | ug/m3 |
| 79-00-5     | 1,1,2-Trichloroethane     | 9.50          | 51.8           | 0.38      |     | 2.73       | ug/m3 |
| 591-78-6    | 2-Hexanone                | 11.2          | 45.8           | 0.33      |     | 2.04       | ug/m3 |
| 124-48-1    | Dibromochloromethane      | 10.2          | 86.9           | 0.60      |     | 4.26       | ug/m3 |
| 106-93-4    | 1,2-Dibromoethane         | 10.6          | 81.5           | 0.54      |     | 0.77       | ug/m3 |
| 127-18-4    | Tetrachloroethene         | 10.4          | 70.5           | 0.14      |     | 0.20       | ug/m3 |
| 108-90-7    | Chlorobenzene             | 9.70          | 44.7           | 0.37      |     | 2.30       | ug/m3 |
| 100-41-4    | Ethyl Benzene             | 11.3          | 49.1           | 0.52      |     | 2.17       | ug/m3 |
| 179601-23-1 | m/p-Xylene                | 21.4          | 93.0           | 0.91      |     | 4.34       | ug/m3 |
| 1330-20-7   | Total Xylenes             | 32.4          | 141            | 1.43      |     | 6.52       | ug/m3 |
| 95-47-6     | o-Xylene                  | 11.0          | 47.8           | 0.52      |     | 2.17       | ug/m3 |
| 100-42-5    | Styrene                   | 12.6          | 53.6           | 0.47      |     | 2.13       | ug/m3 |
| 75-25-2     | Bromoform                 | 10.5          | 109            | 0.62      |     | 5.17       | ug/m3 |
| 98-82-8     | Isopropylbenzene          | 10.2          | 50.1           | 0.44      |     | 2.46       | ug/m3 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane | 5.90          | 40.5           | 0.070     |     | 0.21       | ug/m3 |
| 95-49-8     | 2-Chlorotoluene           | 10.7          | 55.4           | 0.57      |     | 2.59       | ug/m3 |
| 108-67-8    | 1,3,5-Trimethylbenzene    | 10.9          | 53.6           | 0.54      |     | 2.46       | ug/m3 |
| 95-63-6     | 1,2,4-Trimethylbenzene    | 10.4          | 51.1           | 0.39      |     | 2.46       | ug/m3 |
| 541-73-1    | 1,3-Dichlorobenzene       | 10.2          | 61.3           | 0.48      |     | 3.01       | ug/m3 |
| 106-46-7    | 1,4-Dichlorobenzene       | 10.4          | 62.5           | 0.30      |     | 3.01       | ug/m3 |
| 95-50-1     | 1,2-Dichlorobenzene       | 10.0          | 60.1           | 0.48      |     | 3.01       | ug/m3 |
| 120-82-1    | 1,2,4-Trichlorobenzene    | 11.0          | 81.7           | 0.67      |     | 3.71       | ug/m3 |
| 87-68-3     | Hexachloro-1,3-Butadiene  | 8.80          | 93.9           | 0.96      |     | 5.33       | ug/m3 |
| 106-99-0    | 1,3-Butadiene             | 9.80          | 21.7           | 0.29      |     | 1.11       | ug/m3 |
| 91-20-3     | Naphthalene               | 13.3          | 69.7           | 0.42      |     | 0.52       | ug/m3 |
| 622-96-8    | 4-Ethyltoluene            | 11.2          | 55.1           | 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            | 9.70          | 30.4           | 0.47      |     | 1.57       | ug/m3 |
| 123-91-1    | 1,4-Dioxane               | 10.9          | 39.3           | 0.76      |     | 1.80       | ug/m3 |
| 100-44-7    | Benzyl Chloride           | 6.20          | 32.1           | 0.93      |     | 2.59       | ug/m3 |
| 80-62-6     | Methyl Methacrylate       | 10.9          | 44.6           | 0.37      |     | 2.05       | ug/m3 |



## Report of Analysis

|                    |                           |                 |              |
|--------------------|---------------------------|-----------------|--------------|
| Client:            | Chemtech Consulting Group | Date Collected: |              |
| Project:           | NJ Air PT                 | Date Received:  |              |
| Client Sample ID:  | VL1121ABS01               | SDG No.:        | P4633        |
| Lab Sample ID:     | VL1121ABS01               | Matrix:         | Air          |
| Analytical Method: | TO-15                     | Test:           | VOCMS Group3 |
| Sample Wt/Vol:     | 400      Units:    mL     |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL041713.D        | 1         |           | 11/21/24 10:16 | VL112124      |

| CAS Number                | Parameter               | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-------------------------|---------------|----------------|-----------|----------|------------|---------|
| <b>SURROGATES</b>         |                         |               |                |           |          |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene | 10.4          |                |           | 65 - 135 | 104%       | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                         |               |                |           |          |            |         |
| 74-97-5                   | Bromochloromethane      | 1130000       |                | 5.227     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene     | 3170000       |                | 6.687     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5        | 2890000       |                | 11.5      |          |            |         |

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\VL112124\  
 Data File : VL041713.D  
 Acq On : 21 Nov 2024 10:16  
 Operator : SY/MD  
 Sample : VL1121ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1121ABS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/22/2024  
 Supervised By : Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 01:06:55 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 22 01:00:55 2024

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.227  | 49   | 1134955  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.687  | 114  | 3168983  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.500 | 117  | 2890162m | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.806 95 2215094 10.402 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.000%

#### Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.764 | 85  | 1630144 | 7.947  | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 2.706 | 51  | 1285062 | 8.690  | ppbv   | 99     |
| 4) Chloromethane              | 2.848 | 50  | 716415  | 9.146  | ppbv   | 96     |
| 5) Vinyl Chloride             | 2.954 | 62  | 682024  | 9.680  | ppbv   | 100    |
| 6) Bromomethane               | 3.153 | 94  | 304189  | 8.138  | ppbv   | 98     |
| 7) Chloroethane               | 3.230 | 64  | 237287  | 9.227  | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 2.890 | 85  | 1655625 | 9.041  | ppbv   | 99     |
| 9) Propene                    | 2.729 | 41  | 588833  | 9.138  | ppbv   | 100    |
| 10) Heptane                   | 7.613 | 43  | 1461776 | 10.124 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 3.594 | 101 | 1648437 | 9.226  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 4.099 | 101 | 1220108 | 9.395  | ppbv   | 98     |
| 13) Ethanol                   | 3.292 | 45  | 19898m  | 5.043  | ppbv   |        |
| 14) Bromoethene               | 3.401 | 108 | 483950  | 9.269  | ppbv   | 98     |
| 15) Acetone                   | 3.501 | 43  | 1224405 | 8.766  | ppbv   | 100    |
| 16) 1,3-Butadiene             | 3.018 | 39  | 687757  | 9.758  | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 3.912 | 59  | 1149012 | 9.374  | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 3.915 | 96  | 535425  | 9.400  | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.610 | 45  | 625847  | 9.374  | ppbv   | 100    |
| 20) Methylene Chloride        | 3.967 | 84  | 445518  | 8.668  | ppbv   | 98     |
| 21) Allyl Chloride            | 4.031 | 41  | 833062  | 9.652  | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene  | 4.478 | 96  | 536875  | 9.479  | ppbv   | 100    |
| 23) Vinyl Acetate             | 4.658 | 43  | 757071  | 12.295 | ppbv # | 97     |
| 24) 1,1-Dichloroethane        | 4.597 | 63  | 1176486 | 9.307  | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.237 | 43  | 2679235 | 9.267  | ppbv   | 99     |
| 26) Hexane                    | 5.246 | 57  | 1065415 | 9.591  | ppbv   | 98     |
| 27) Carbon Disulfide          | 4.156 | 76  | 1327851 | 10.640 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 4.619 | 73  | 670312  | 9.371  | ppbv   | 99     |
| 29) Chloroform                | 5.308 | 83  | 1693486 | 9.236  | ppbv   | 100    |
| 30) Cyclohexane               | 6.635 | 84  | 903309  | 9.550  | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 5.111 | 61  | 1042430 | 9.755  | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 6.037 | 97  | 1669061 | 9.978  | ppbv   | 100    |
| 34) 2-Butanone                | 4.819 | 43  | 1417727 | 8.985  | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 6.529 | 117 | 1741838 | 10.418 | ppbv   | 99     |
| 36) Benzene                   | 6.404 | 78  | 2312069 | 9.847  | ppbv   | 100    |
| 37) 1,2-Dichloroethane        | 5.841 | 62  | 1284047 | 9.693  | ppbv   | 99     |
| 38) Trichloroethene           | 7.327 | 130 | 1289883 | 14.303 | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 7.105 | 63  | 891656  | 9.610  | ppbv   | 97     |
| 40) 1,4-Dioxane               | 7.317 | 88  | 363295  | 10.912 | ppbv   | 90     |
| 41) Tetrahydrofuran           | 5.590 | 42  | 934965  | 10.375 | ppbv   | 99     |
| 42) Bromodichloromethane      | 7.285 | 83  | 1839599 | 9.994  | ppbv   | 99     |
| 43) Methyl Methacrylate       | 7.507 | 69  | 901641  | 10.937 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 7.359 | 57  | 3894162 | 9.791  | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 8.745 | 75  | 748133  | 9.931  | ppbv   | 99     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112124\  
 Data File : VL041713.D  
 Acq On : 21 Nov 2024 10:16  
 Operator : SY/MD  
 Sample : VL1121ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1121ABS01

Quant Time: Nov 22 01:06:55 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Nov 22 01:00:55 2024  
 Response via : Initial Calibration

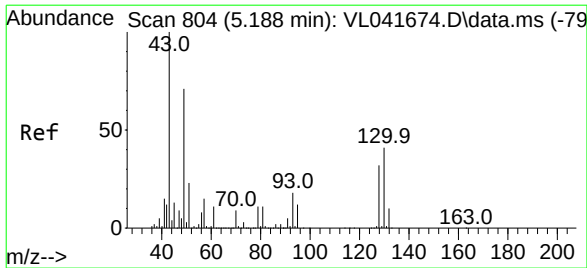
### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/22/2024  
 Supervised By : Mahesh Dadoda 11/22/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.179  | 75   | 1103972  | 10.203 | ppbv  | 98       |
| 47) 1,1,2-Trichloroethane     | 8.934  | 97   | 949123   | 9.451  | ppbv  | 98       |
| 48) Dibromochloromethane      | 9.745  | 129  | 1553797  | 10.178 | ppbv  | 100      |
| 49) Bromoform                 | 12.439 | 173  | 1365111  | 10.451 | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.214  | 43   | 2511109  | 10.366 | ppbv  | 100      |
| 51) 2-Hexanone                | 9.584  | 43   | 1968115  | 11.157 | ppbv  | 100      |
| 52) Tetrachloroethene         | 10.648 | 164  | 833665   | 10.419 | ppbv  | 97       |
| 53) Toluene                   | 9.253  | 91   | 2633054  | 10.664 | ppbv  | 99       |
| 54) 1,2-Dibromoethane         | 10.040 | 107  | 1247128  | 10.629 | ppbv  | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.542 | 131  | 1158400  | 9.718  | ppbv  | 100      |
| 57) Chlorobenzene             | 11.561 | 112  | 2078199  | 9.722  | ppbv  | 99       |
| 58) Ethyl Benzene             | 12.121 | 91   | 3565857  | 11.254 | ppbv  | 98       |
| 59) m/p-Xylene                | 12.404 | 91   | 6079786m | 21.427 | ppbv  |          |
| 60) o-Xylene                  | 13.089 | 91   | 2972199  | 10.985 | ppbv  | 99       |
| 61) Styrene                   | 12.931 | 104  | 1410360  | 12.630 | ppbv  | 100      |
| 62) Isopropylbenzene          | 14.060 | 105  | 4263154  | 10.202 | ppbv  | 99       |
| 63) 1,1,1,2-Tetrachloroethane | 13.079 | 83   | 1179536  | 5.927  | ppbv  | 99       |
| 64) n-propylbenzene           | 14.947 | 120  | 1146628  | 10.482 | ppbv  | 99       |
| 65) tert-Butylbenzene         | 16.121 | 119  | 3836581  | 10.215 | ppbv  | 100      |
| 66) Benzyl Chloride           | 16.359 | 91   | 179175   | 6.202  | ppbv  | 96       |
| 67) sec-Butylbenzene          | 16.664 | 105  | 5364091  | 10.134 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.027 | 119  | 4458745  | 10.419 | ppbv  | 100      |
| 70) n-Butylbenzene            | 17.918 | 91   | 4604740  | 10.517 | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 14.835 | 91   | 3223209  | 10.671 | ppbv  | 99       |
| 72) 4-Ethyltoluene            | 15.224 | 105  | 3514757  | 11.173 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.381 | 105  | 2999740  | 10.867 | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.140 | 105  | 3320988  | 10.358 | ppbv  | 97       |
| 75) 1,3-Dichlorobenzene       | 16.362 | 146  | 2028386  | 10.215 | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 16.506 | 146  | 1989769  | 10.386 | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.175 | 146  | 1974338  | 10.037 | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.670 | 225  | 1371815  | 8.817  | ppbv  | 99       |
| 79) Naphthalene               | 21.419 | 128  | 2632672  | 13.302 | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 24.403 | 142  | 1177283  | 27.288 | ppbv  | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.175 | 180  | 1367312m | 10.986 | ppbv  |          |

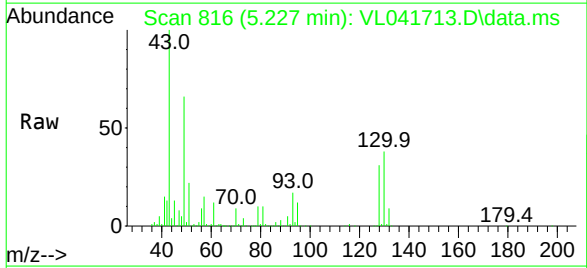
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.227 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

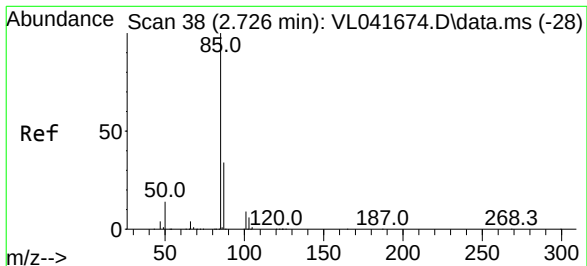
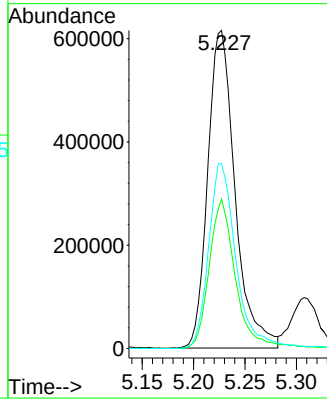
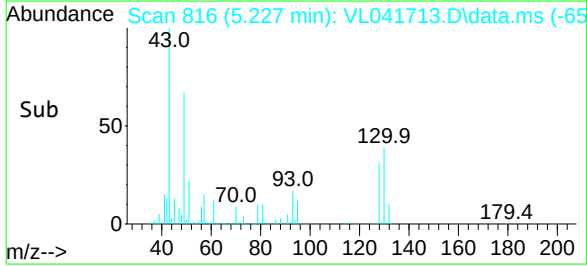
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



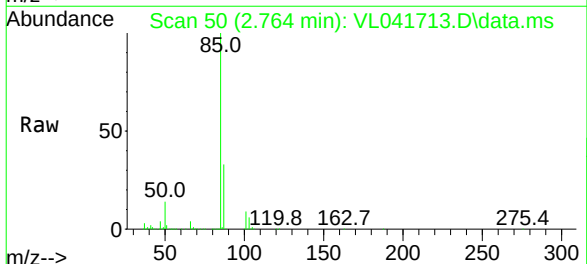
Tgt Ion: 49 Resp: 1134955  
Ion Ratio Lower Upper  
49 100  
128 46.2 23.8 71.2  
130 59.4 30.1 90.5

Manual Integrations  
APPROVED

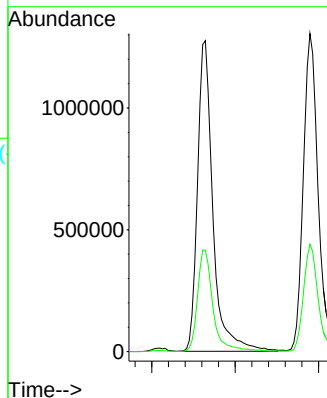
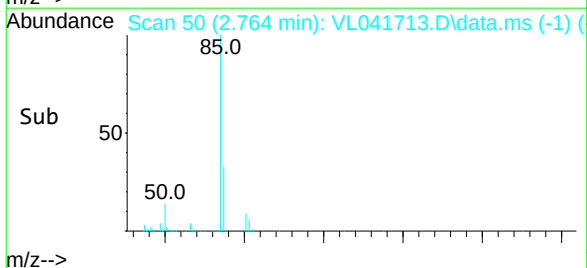
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

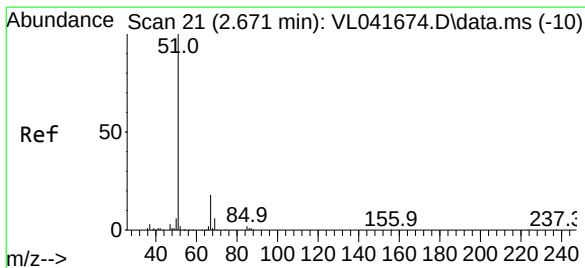


#2  
Dichlorodifluoromethane  
Concen: 7.947 ppbv  
RT: 2.764 min Scan# 50  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



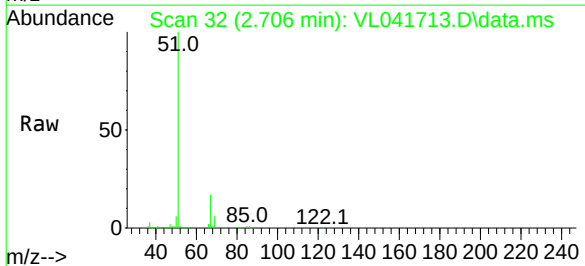
Tgt Ion: 85 Resp: 1630144  
Ion Ratio Lower Upper  
85 100  
87 32.6 26.8 40.2





#3  
Chlorodifluoromethane  
Concen: 8.690 ppbv  
RT: 2.706 min Scan# 32  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

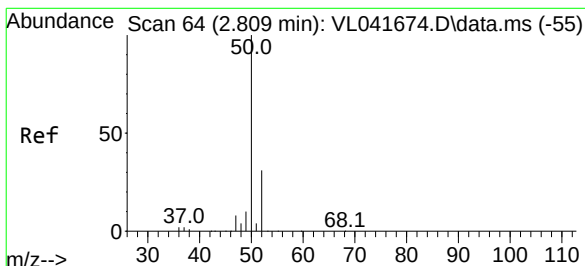
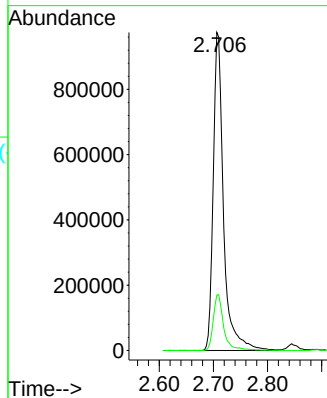
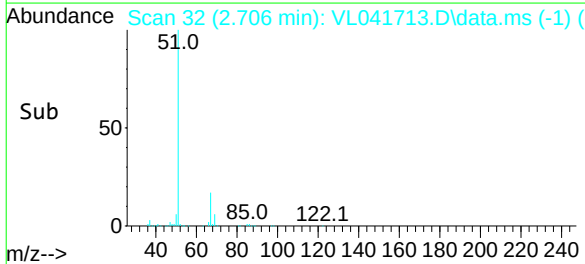
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



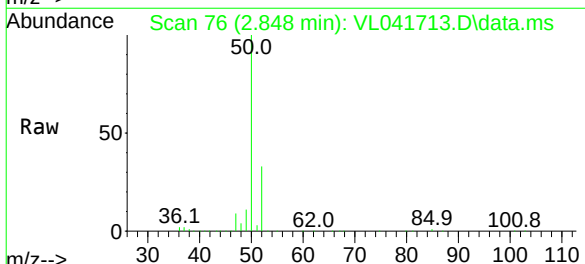
Tgt Ion: 51 Resp: 1285062  
Ion Ratio Lower Upper  
51 100  
67 18.0 13.9 20.9

Manual Integrations  
APPROVED

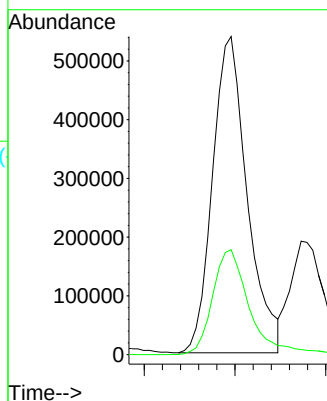
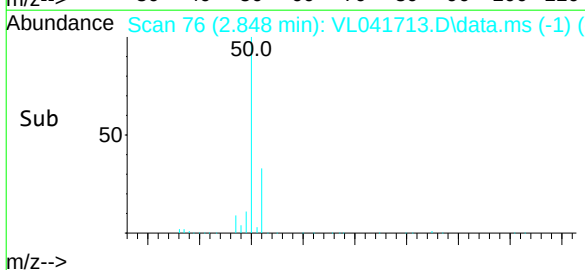
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

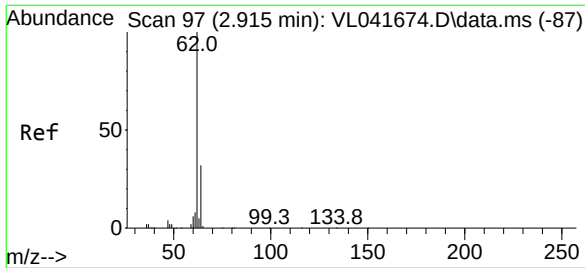


#4  
Chloromethane  
Concen: 9.146 ppbv  
RT: 2.848 min Scan# 76  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



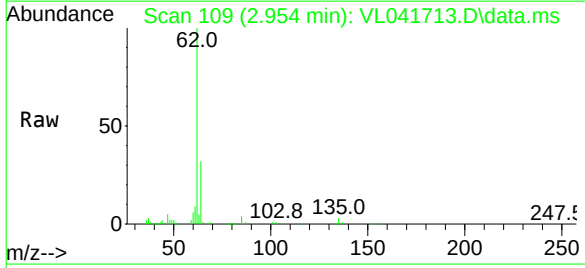
Tgt Ion: 50 Resp: 716415  
Ion Ratio Lower Upper  
50 100  
52 33.2 24.9 37.3





#5  
Vinyl Chloride  
Concen: 9.680 ppbv  
RT: 2.954 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

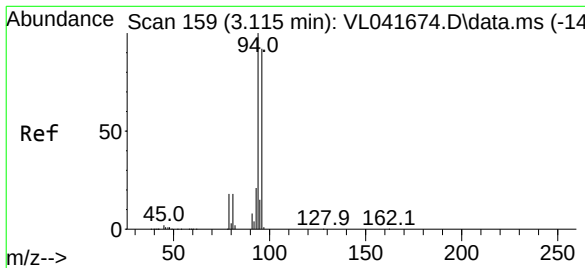
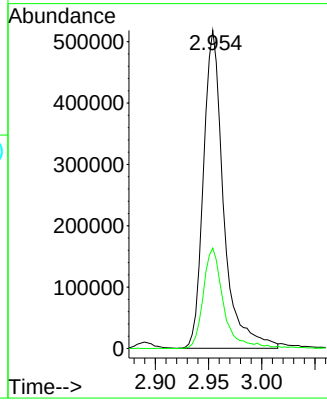
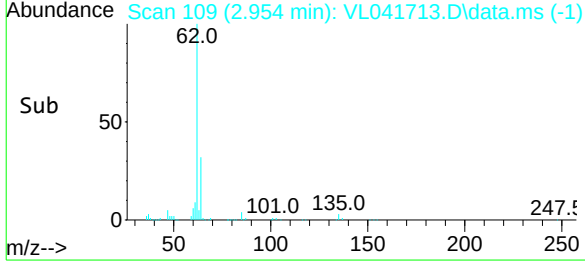
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



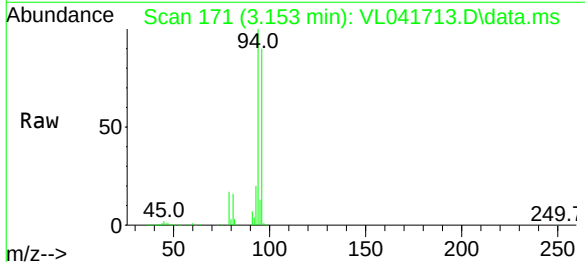
Tgt Ion: 62 Resp: 682024  
Ion Ratio Lower Upper  
62 100  
64 31.6 25.4 38.2

Manual Integrations  
APPROVED

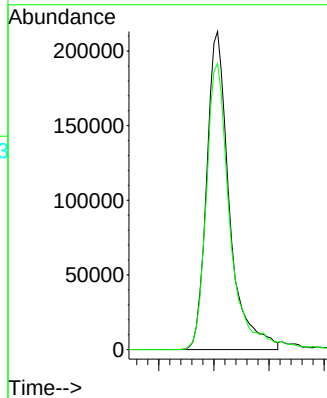
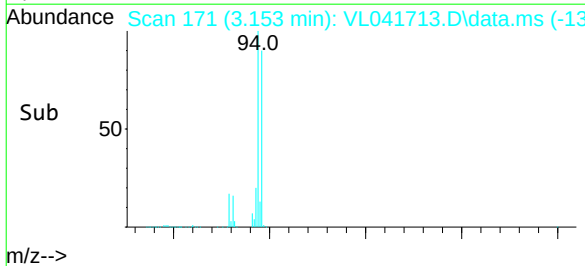
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

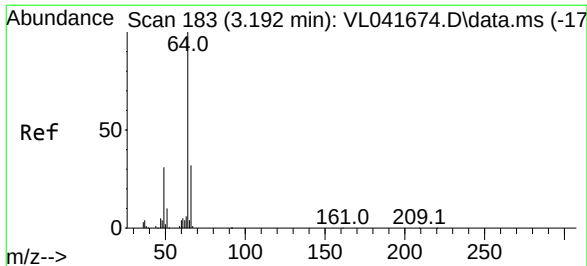


#6  
Bromomethane  
Concen: 8.138 ppbv  
RT: 3.153 min Scan# 171  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



Tgt Ion: 94 Resp: 304189  
Ion Ratio Lower Upper  
94 100  
96 90.0 73.4 110.2





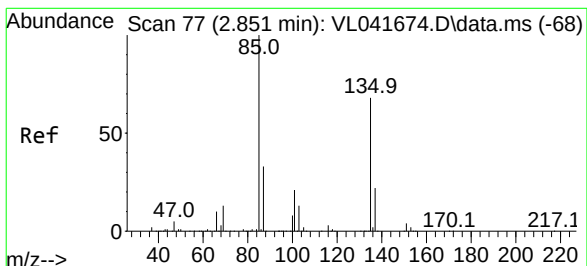
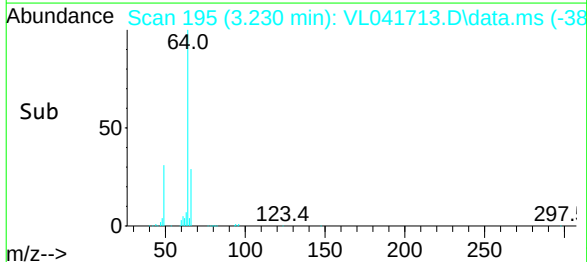
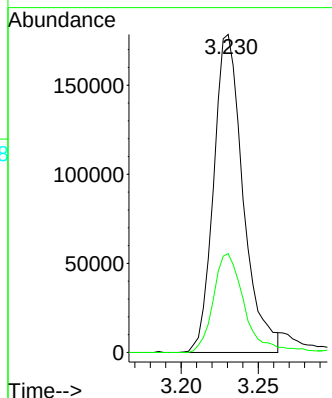
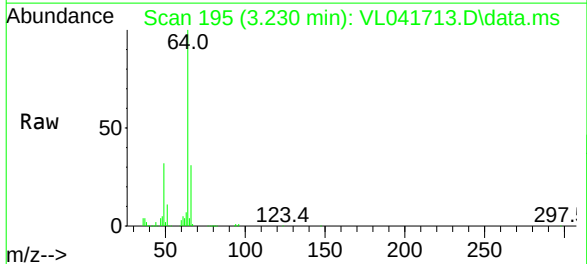
#7  
Chloroethane  
Concen: 9.227 ppbv  
RT: 3.230 min Scan# 19  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

Tgt Ion: 64 Resp: 237287  
Ion Ratio Lower Upper  
64 100  
66 31.1 25.9 38.9

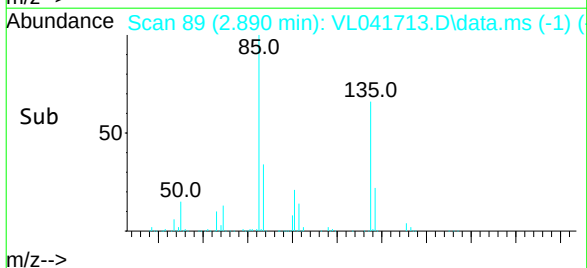
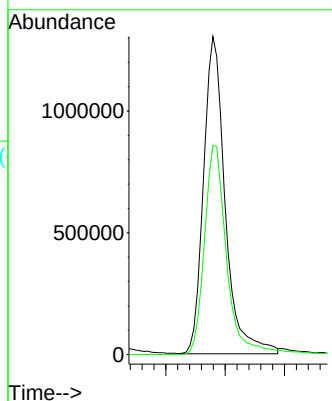
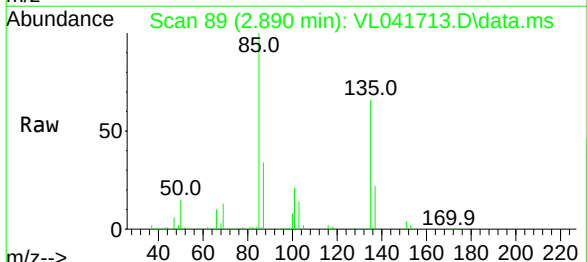
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

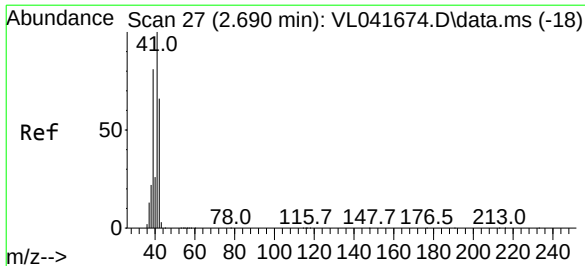


#8  
Dichlorotetrafluoroethane  
Concen: 9.041 ppbv  
RT: 2.890 min Scan# 89  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 85 Resp: 1655625  
Ion Ratio Lower Upper  
85 100  
135 68.5 55.5 83.3

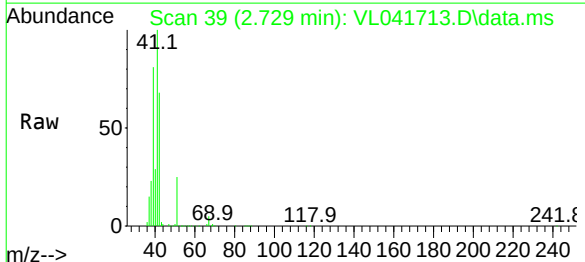






#9  
Propene  
Concen: 9.138 ppbv  
RT: 2.729 min Scan# 39  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

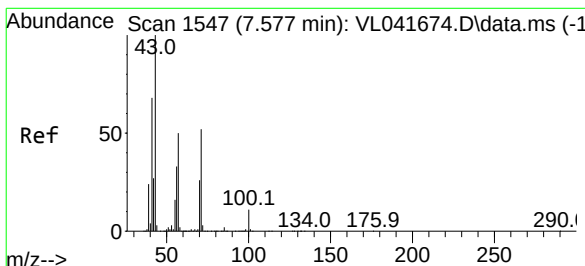
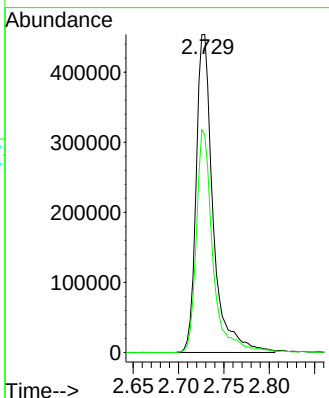
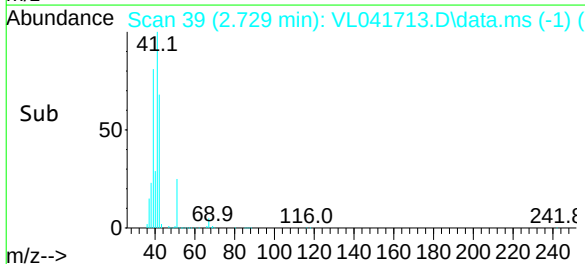
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



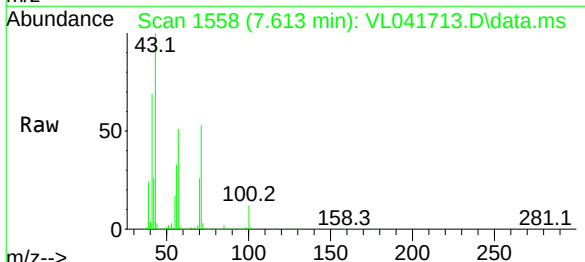
Tgt Ion: 41 Resp: 588833  
Ion Ratio Lower Upper  
41 100  
42 68.8 55.0 82.4

Manual Integrations  
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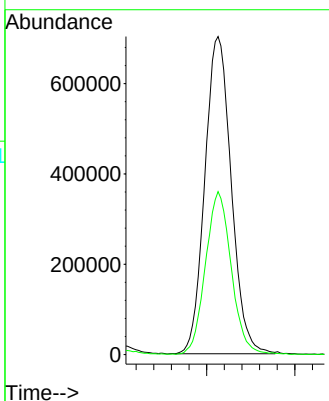
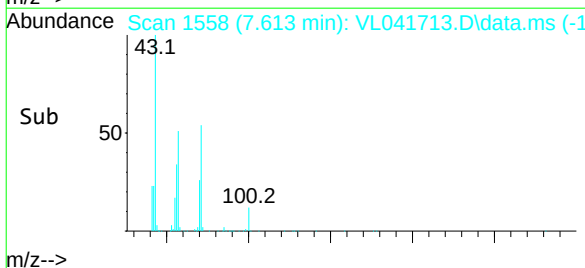
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

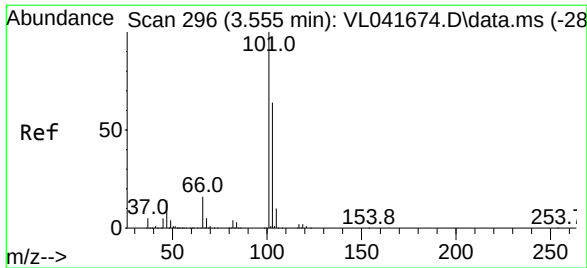


#10  
Heptane  
Concen: 10.124 ppbv  
RT: 7.613 min Scan# 1558  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



Tgt Ion: 43 Resp: 1461776  
Ion Ratio Lower Upper  
43 100  
57 50.4 40.0 60.0





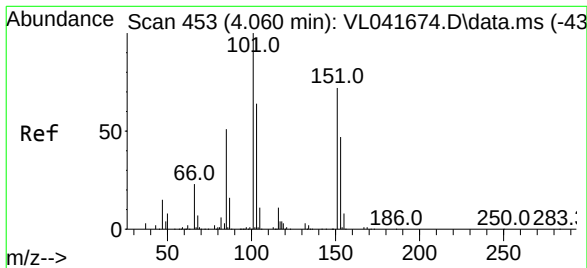
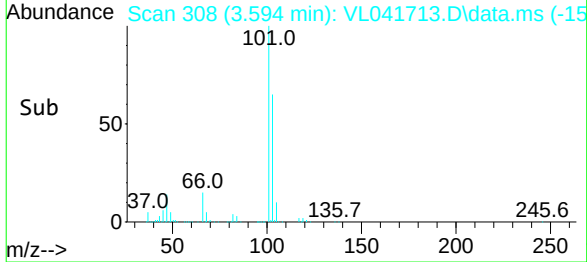
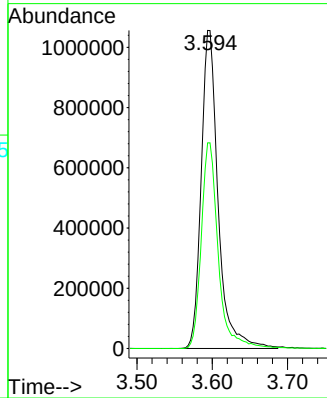
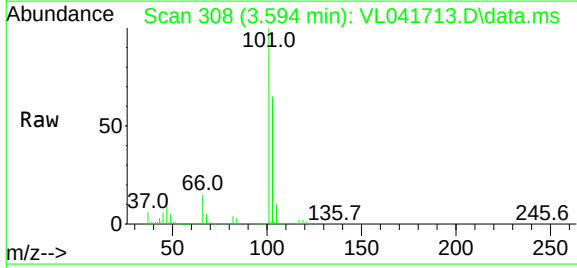
#11  
Trichlorofluoromethane  
Concen: 9.226 ppbv  
RT: 3.594 min Scan# 308  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

Tgt Ion:101 Resp: 1648437  
Ion Ratio Lower Upper  
101 100  
103 64.7 51.0 76.6

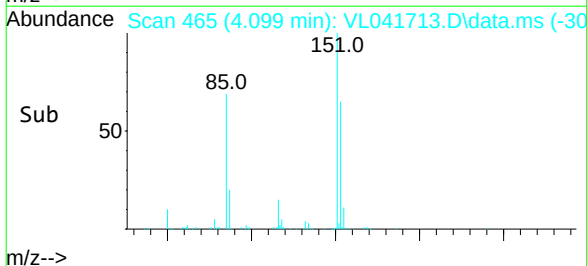
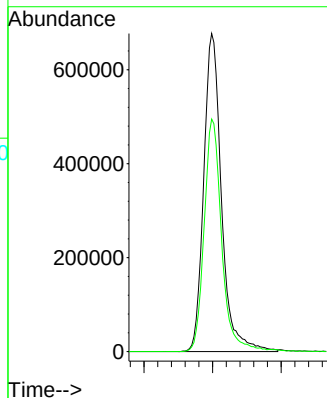
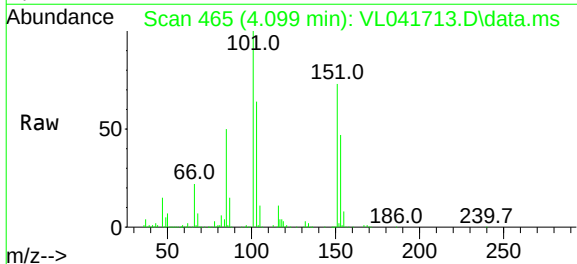
Manual Integrations  
APPROVED

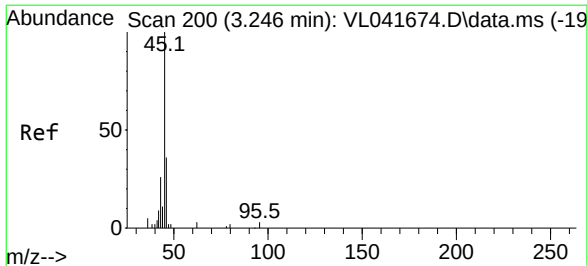
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.395 ppbv  
RT: 4.099 min Scan# 465  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

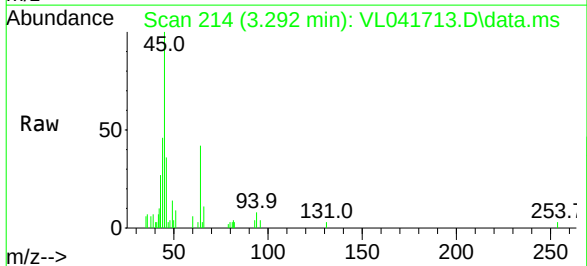
Tgt Ion:101 Resp: 1220108  
Ion Ratio Lower Upper  
101 100  
151 72.5 59.1 88.7





#13  
Ethanol  
Concen: 5.043 ppbv m  
RT: 3.292 min Scan# 211  
Delta R.T. 0.016 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

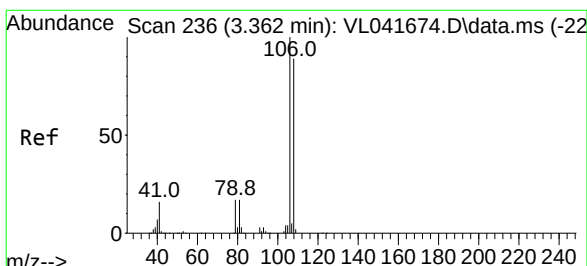
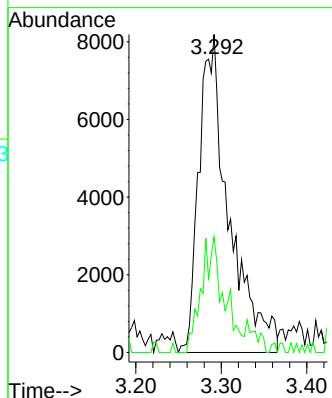
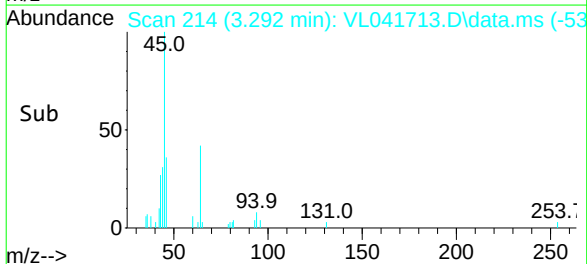
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



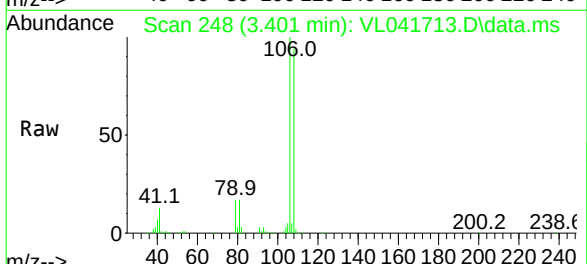
Tgt Ion: 45 Resp: 19898  
Ion Ratio Lower Upper  
45 100  
46 32.1 13.8 55.2

Manual Integrations  
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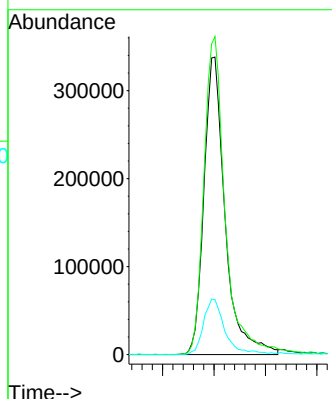
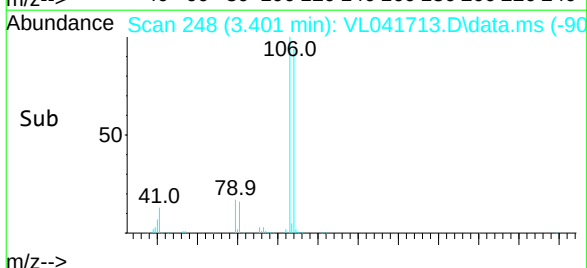
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

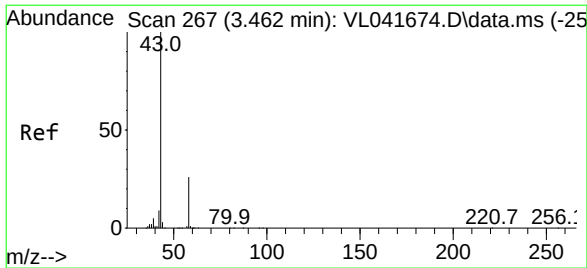


#14  
Bromoethene  
Concen: 9.269 ppbv  
RT: 3.401 min Scan# 248  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



Tgt Ion:108 Resp: 483950  
Ion Ratio Lower Upper  
108 100  
106 108.8 88.6 133.0  
79 19.3 15.6 23.4





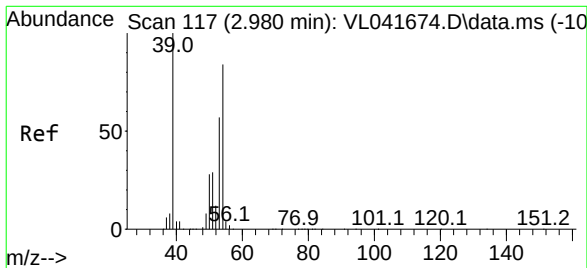
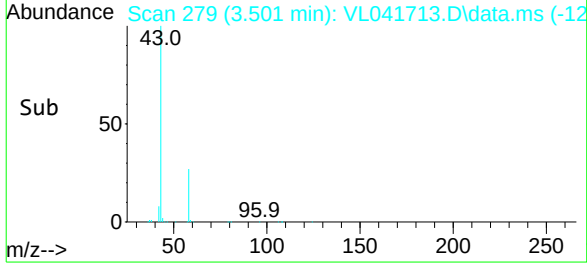
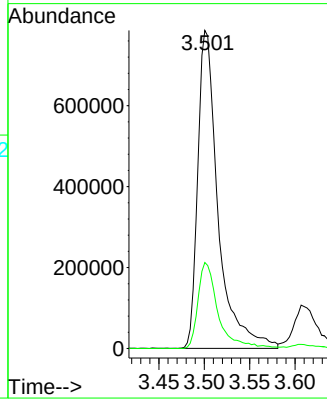
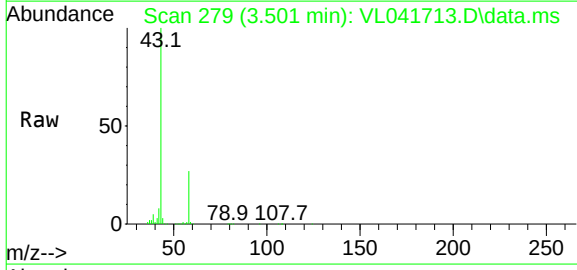
#15  
Acetone  
Concen: 8.766 ppbv  
RT: 3.501 min Scan# 27  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

Tgt Ion: 43 Resp: 1224405  
Ion Ratio Lower Upper  
43 100  
58 26.9 21.4 32.0

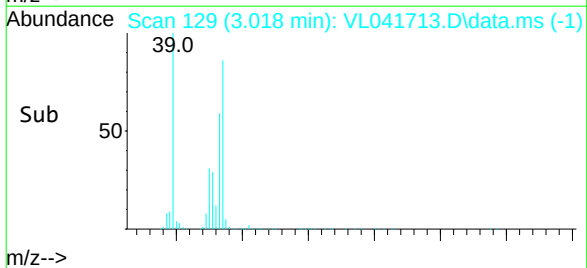
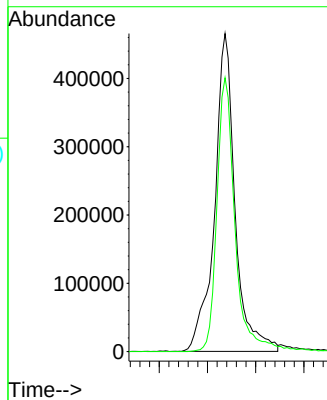
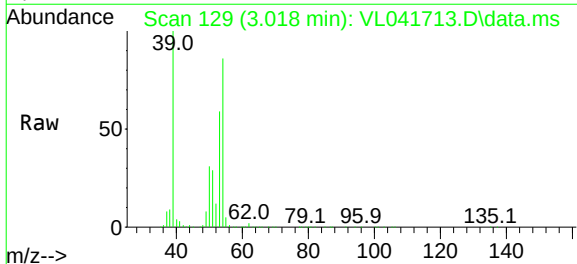
Manual Integrations  
APPROVED

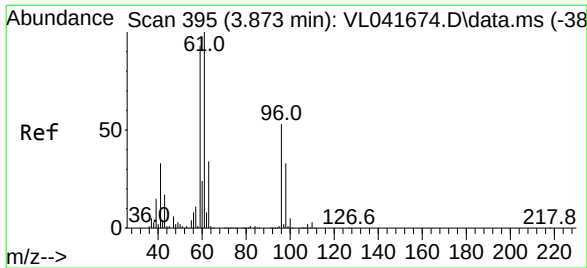
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#16  
1,3-Butadiene  
Concen: 9.758 ppbv  
RT: 3.018 min Scan# 129  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

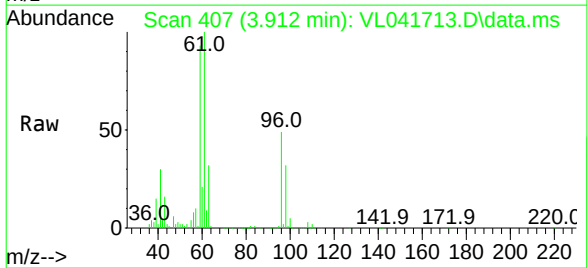
Tgt Ion: 39 Resp: 687757  
Ion Ratio Lower Upper  
39 100  
54 76.8 61.3 91.9





#17  
tert-Butyl alcohol  
Concen: 9.374 ppbv  
RT: 3.912 min Scan# 407  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

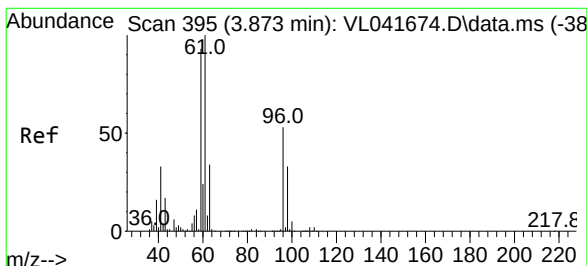
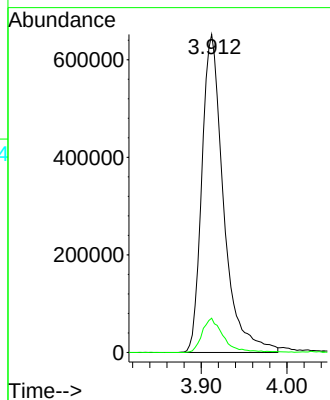
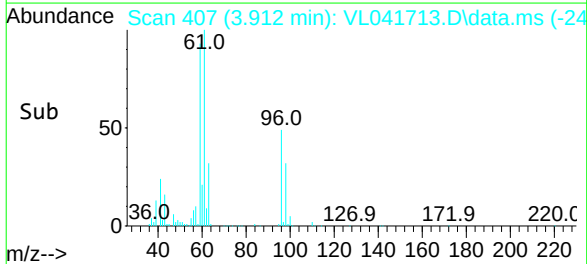
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



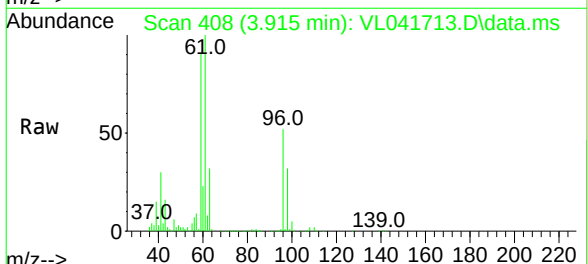
Tgt Ion: 59 Resp: 1149012  
Ion Ratio Lower Upper  
59 100  
57 10.7 8.5 12.7

Manual Integrations  
APPROVED

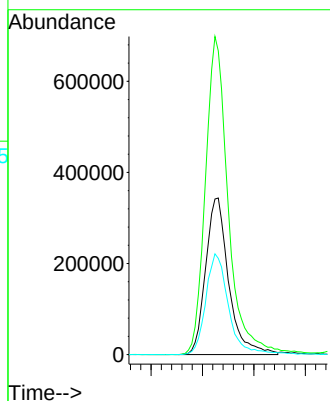
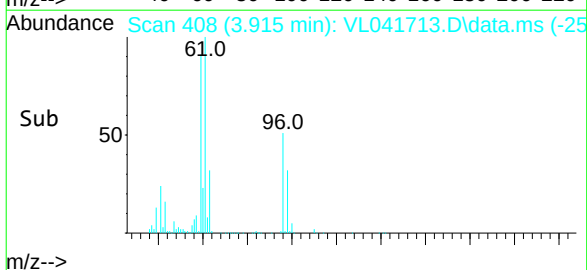
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

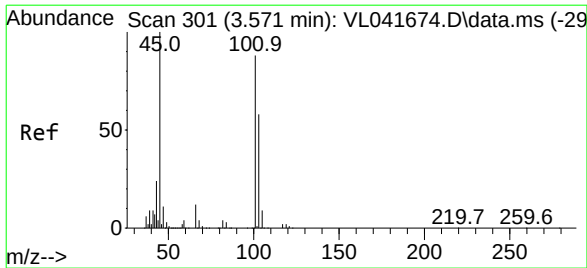


#18  
1,1-Dichloroethene  
Concen: 9.400 ppbv  
RT: 3.915 min Scan# 408  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



Tgt Ion: 96 Resp: 535425  
Ion Ratio Lower Upper  
96 100  
61 193.9 150.7 226.1  
98 61.4 49.4 74.2





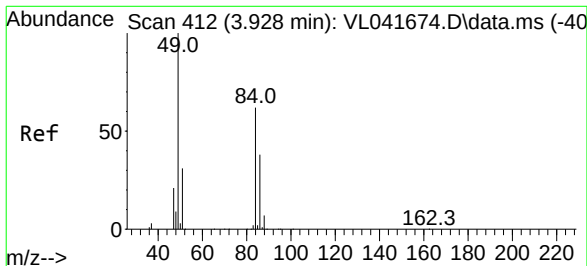
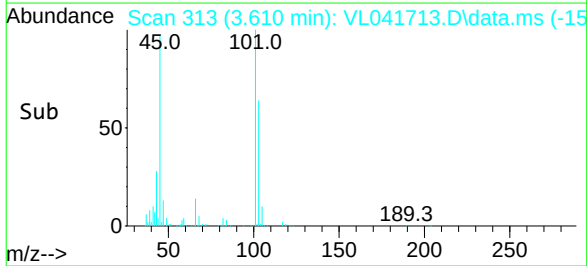
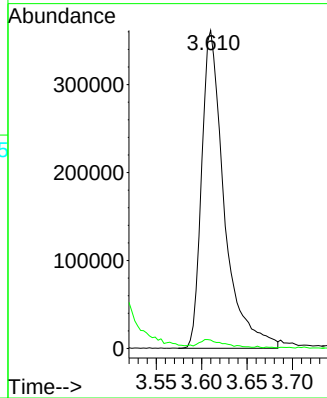
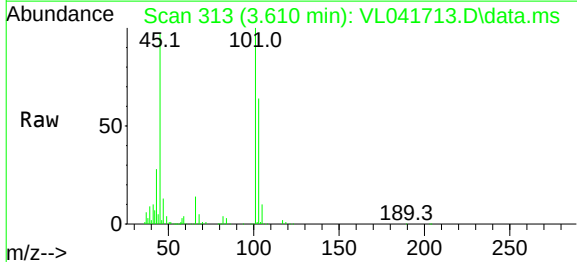
#19  
Isopropyl Alcohol  
Concen: 9.374 ppbv  
RT: 3.610 min Scan# 311  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

Tgt Ion: 45 Resp: 625847  
Ion Ratio Lower Upper  
45 100  
58 3.0 2.5 3.7

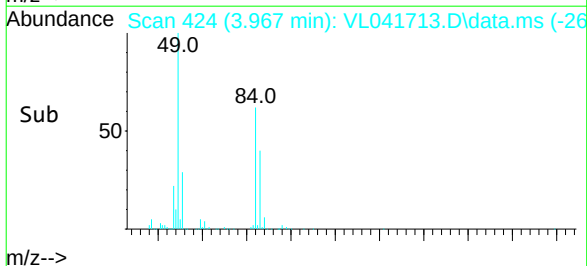
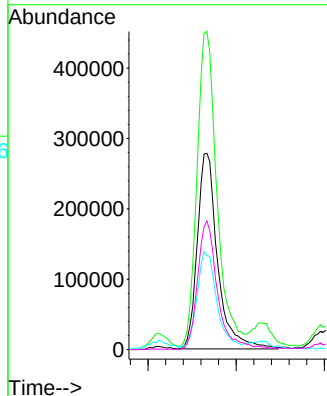
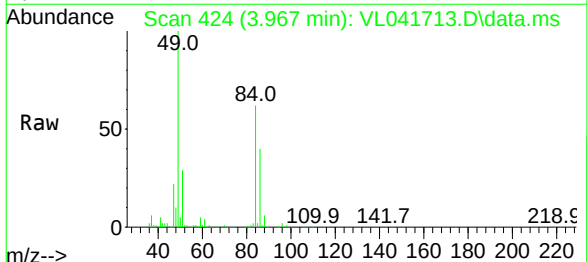
Manual Integrations  
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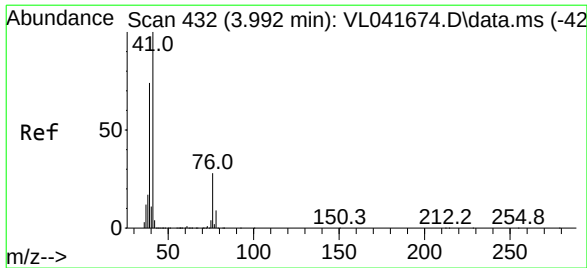
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#20  
Methylene Chloride  
Concen: 8.668 ppbv  
RT: 3.967 min Scan# 424  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 84 Resp: 445518  
Ion Ratio Lower Upper  
84 100  
49 161.0 129.7 194.5  
51 46.7 39.8 59.6  
86 65.6 49.1 73.7





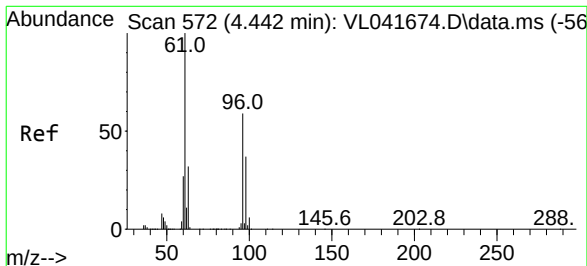
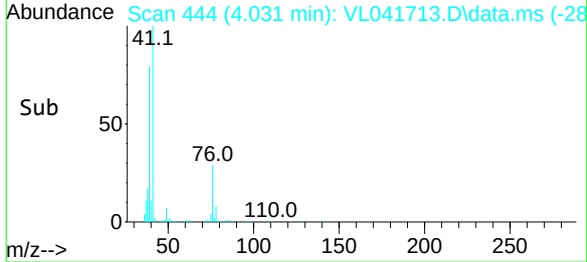
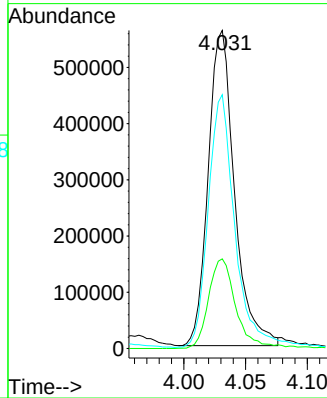
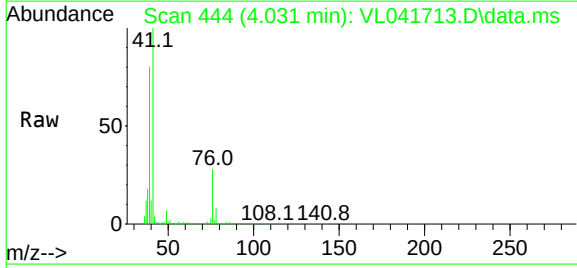
#21  
 Allyl Chloride  
 Concen: 9.652 ppbv  
 RT: 4.031 min Scan# 44  
 Delta R.T. 0.006 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1121ABS01

|             |              |
|-------------|--------------|
| Tgt Ion: 41 | Resp: 833062 |
| Ion Ratio   | Lower Upper  |
| 41 100      |              |
| 76 30.0     | 23.5 35.3    |
| 39 82.1     | 63.0 94.4    |

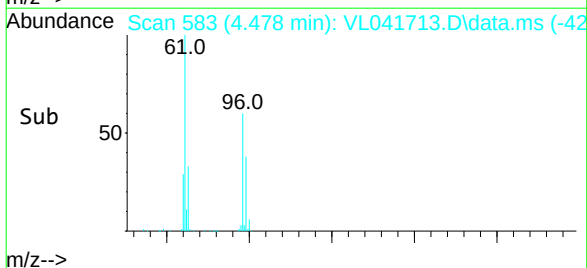
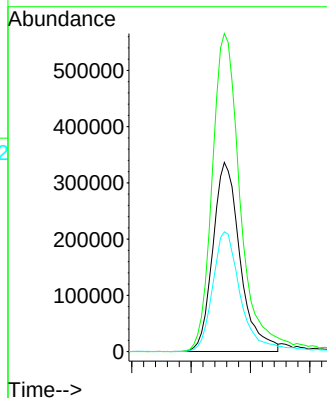
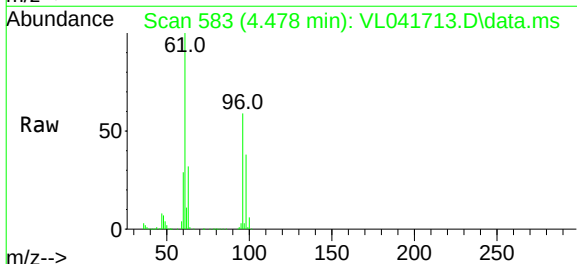
Manual Integrations  
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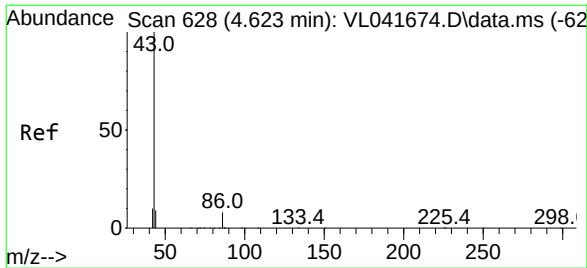
Reviewed By :Semsettin Yesilyurt 11/22/2024  
 Supervised By :Mahesh Dadoda 11/22/2024



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.479 ppbv  
 RT: 4.478 min Scan# 583  
 Delta R.T. 0.003 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

|             |              |
|-------------|--------------|
| Tgt Ion: 96 | Resp: 536875 |
| Ion Ratio   | Lower Upper  |
| 96 100      |              |
| 61 168.2    | 134.5 201.7  |
| 98 63.2     | 49.6 74.4    |





#23  
 Vinyl Acetate  
 Concen: 12.295 ppbv  
 RT: 4.658 min Scan# 63  
 Delta R.T. 0.003 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

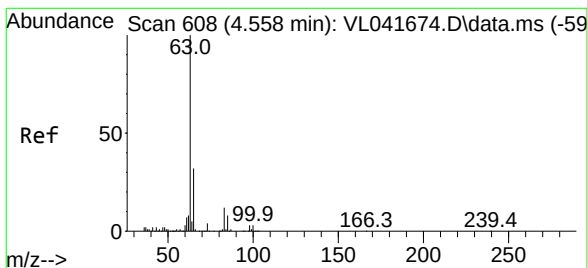
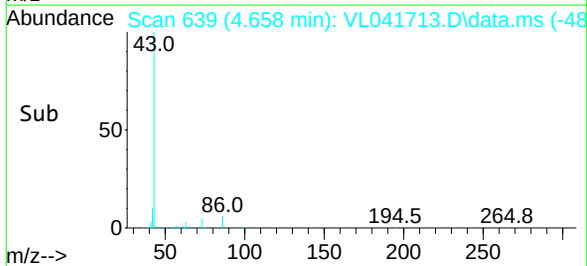
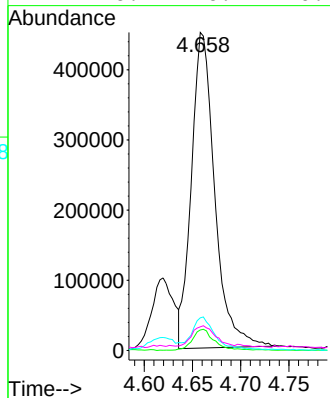
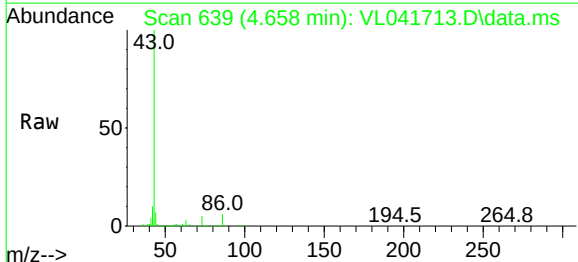
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1121ABS01

Tgt Ion: 43 Resp: 757071

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.5   | 5.3   | 7.9   |
| 42  | 10.1  | 8.5   | 12.7  |
| 44  | 6.4   | 6.7   | 10.1# |

Manual Integrations  
 APPROVED

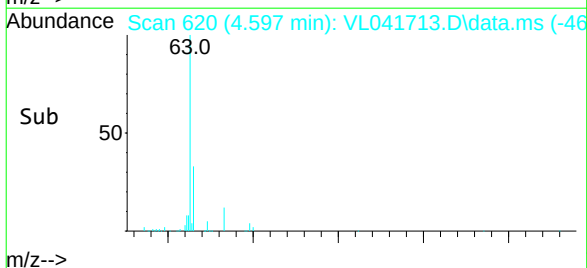
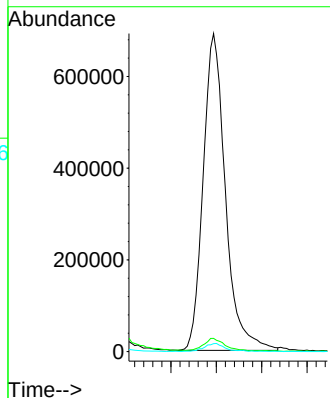
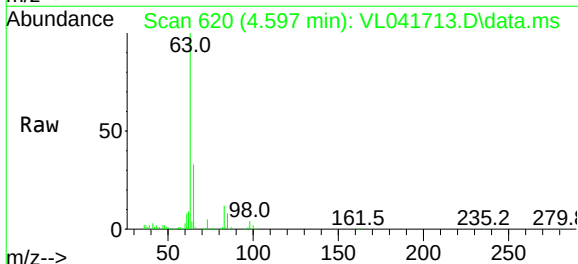
Reviewed By :Semsettin Yesilyurt 11/22/2024  
 Supervised By :Mahesh Dadoda 11/22/2024



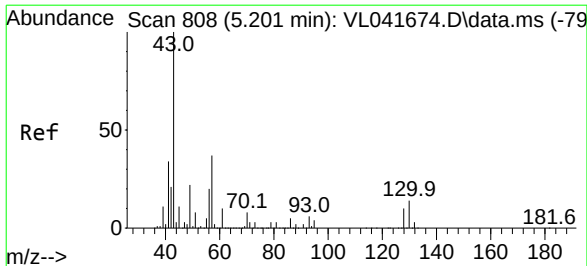
#24  
 1,1-Dichloroethane  
 Concen: 9.307 ppbv  
 RT: 4.597 min Scan# 620  
 Delta R.T. 0.003 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

Tgt Ion: 63 Resp: 1176486

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.0   | 1.8   | 5.4   |
| 100 | 2.4   | 1.4   | 4.2   |

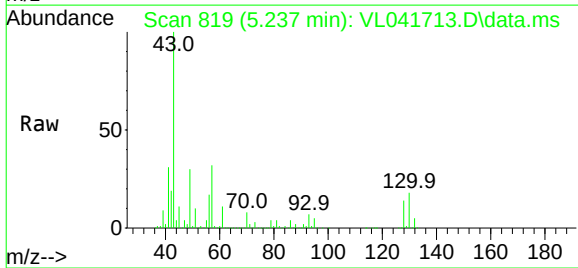






#25  
Ethyl Acetate  
Concen: 9.267 ppbv  
RT: 5.237 min Scan# 811  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

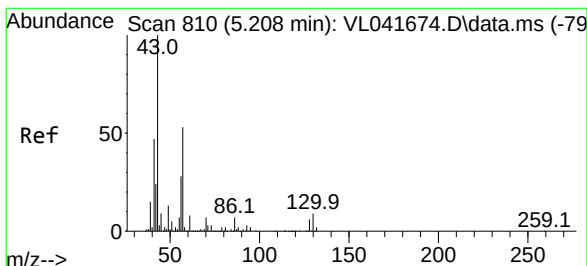
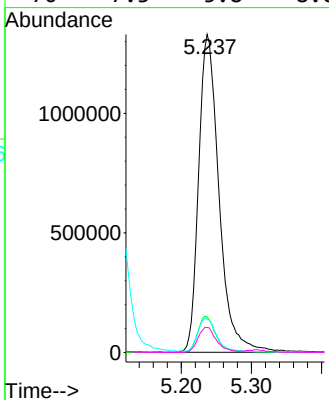
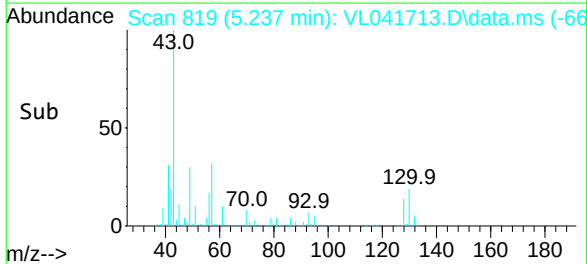
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



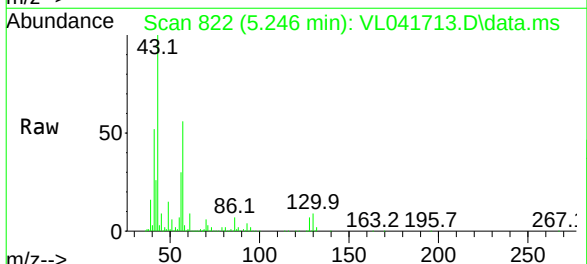
Tgt Ion: 43 Resp: 2679235  
Ion Ratio Lower Upper  
43 100  
45 10.5 8.6 13.0  
61 10.1 8.4 12.6  
70 7.3 5.8 8.6

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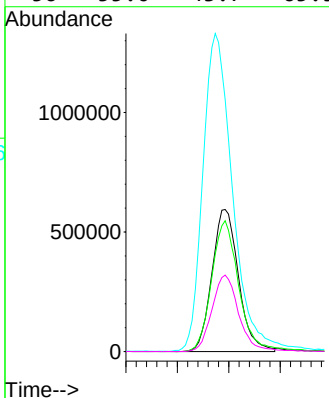
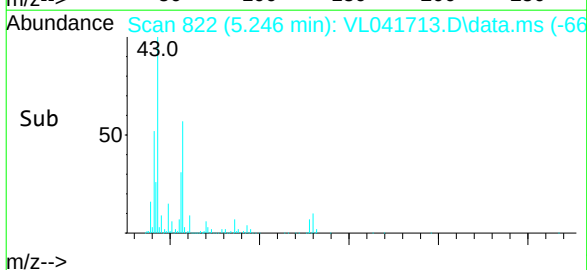
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

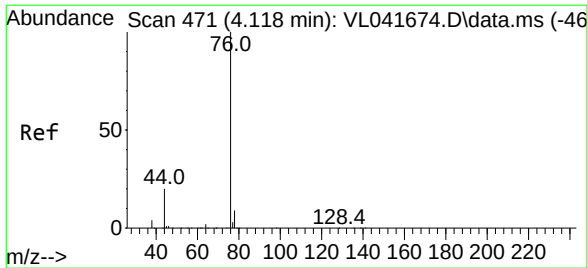


#26  
Hexane  
Concen: 9.591 ppbv  
RT: 5.246 min Scan# 822  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



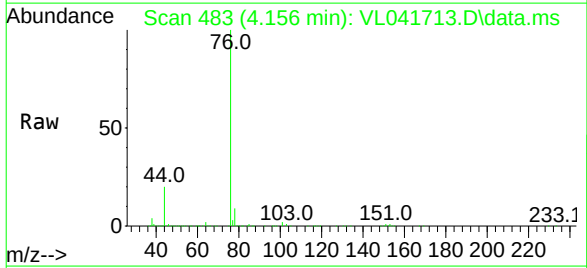
Tgt Ion: 57 Resp: 1065415  
Ion Ratio Lower Upper  
57 100  
41 95.7 76.1 114.1  
43 252.9 207.0 310.6  
56 55.0 43.7 65.5





#27  
Carbon Disulfide  
Concen: 10.640 ppbv  
RT: 4.156 min Scan# 48  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

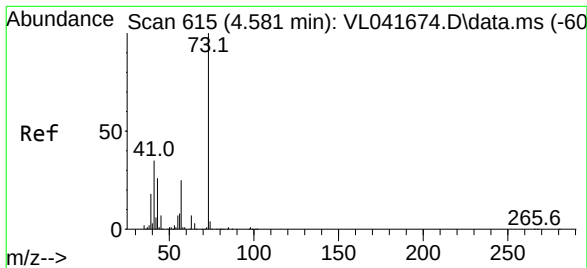
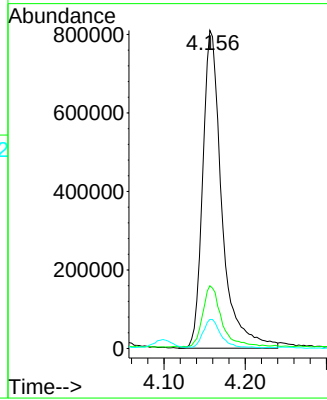
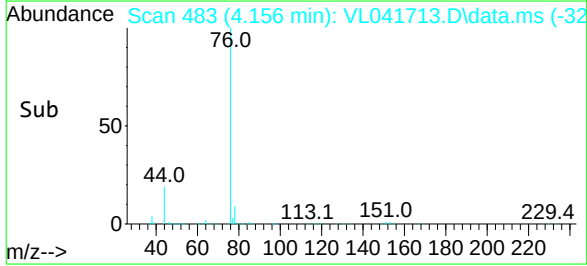
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



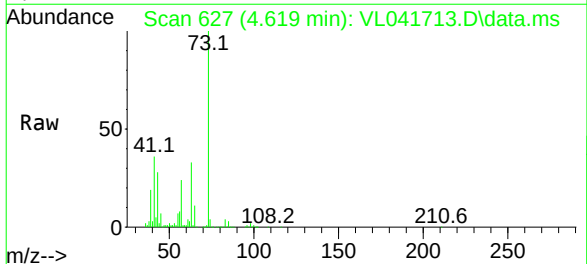
Tgt Ion: 76 Resp: 1327851  
Ion Ratio Lower Upper  
76 100  
44 19.4 15.8 23.8  
78 9.2 7.5 11.3

Manual Integrations  
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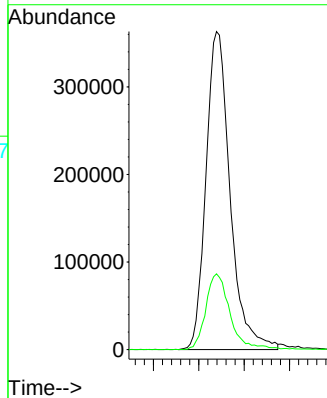
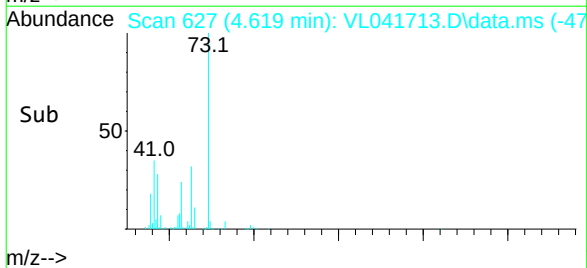
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

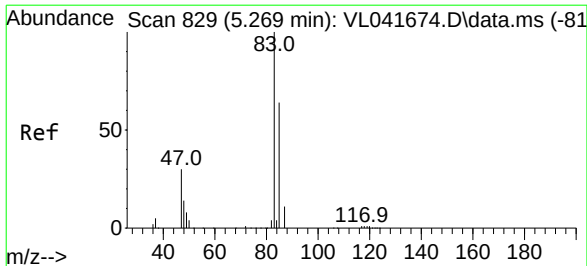


#28  
Methyl tert-Butyl Ether  
Concen: 9.371 ppbv  
RT: 4.619 min Scan# 627  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



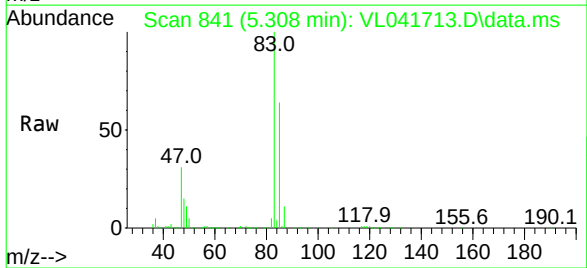
Tgt Ion: 73 Resp: 670312  
Ion Ratio Lower Upper  
73 100  
57 24.2 19.6 29.4





#29  
Chloroform  
Concen: 9.236 ppbv  
RT: 5.308 min Scan# 841  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

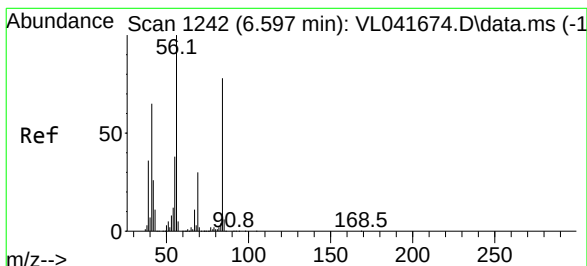
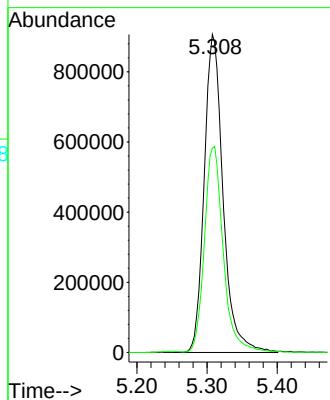
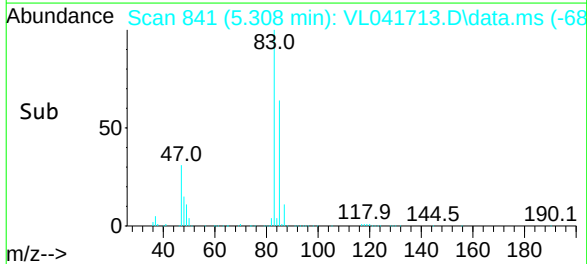
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



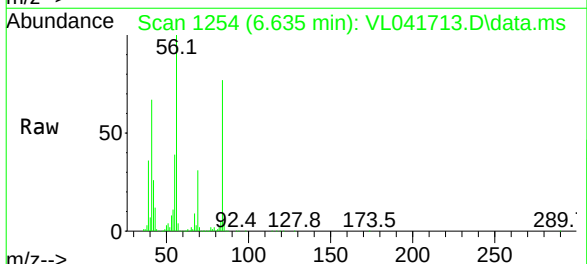
Tgt Ion: 83 Resp: 1693486  
Ion Ratio Lower Upper  
83 100  
85 64.0 51.1 76.7

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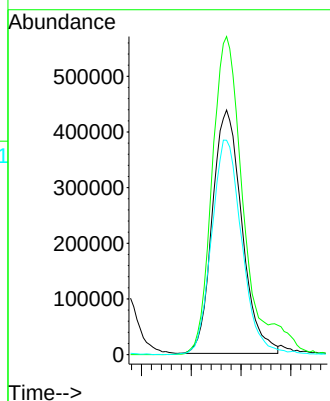
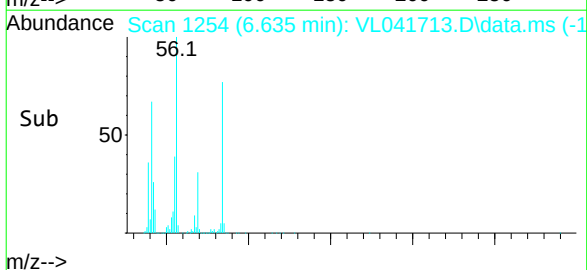
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

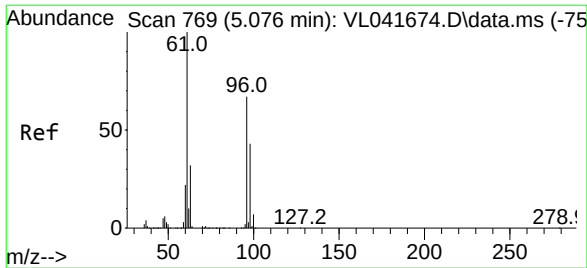


#30  
Cyclohexane  
Concen: 9.550 ppbv  
RT: 6.635 min Scan# 1254  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



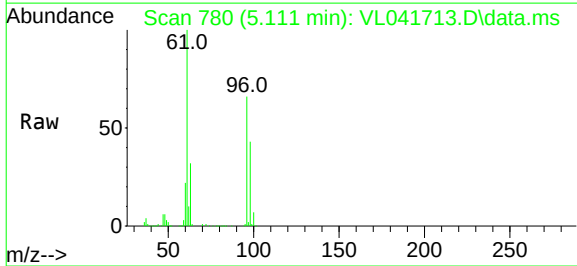
Tgt Ion: 84 Resp: 903309  
Ion Ratio Lower Upper  
84 100  
56 140.7 110.8 166.2  
41 90.5 70.0 105.0





#31  
 cis-1,2-Dichloroethene  
 Concen: 9.755 ppbv  
 RT: 5.111 min Scan# 78  
 Delta R.T. 0.003 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

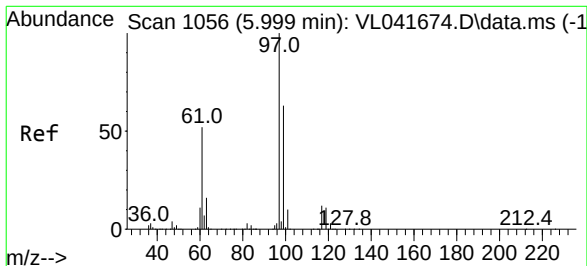
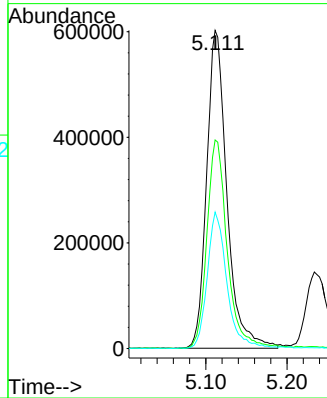
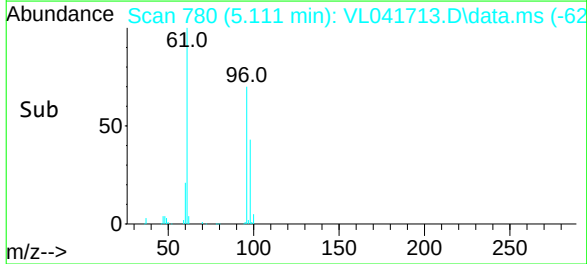
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1121ABS01



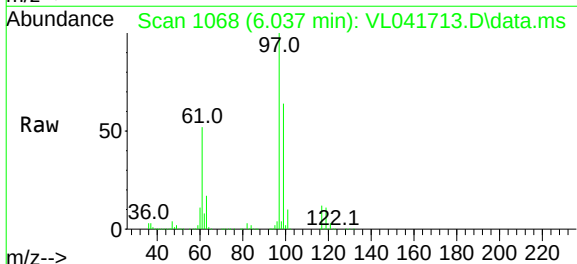
Tgt Ion: 61 Resp: 1042430  
 Ion Ratio Lower Upper  
 61 100  
 96 65.6 53.4 80.2  
 98 42.8 34.0 51.0

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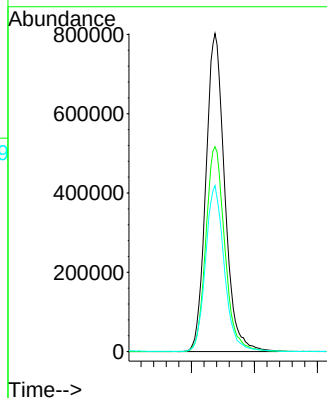
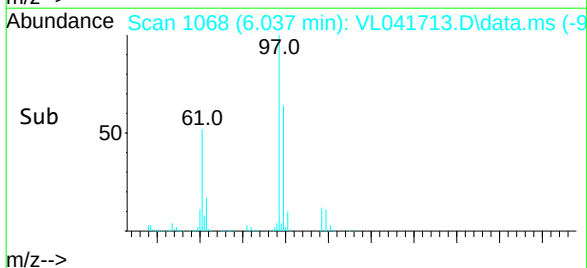
Reviewed By :Semsettin Yesilyurt 11/22/2024  
 Supervised By :Mahesh Dadoda 11/22/2024

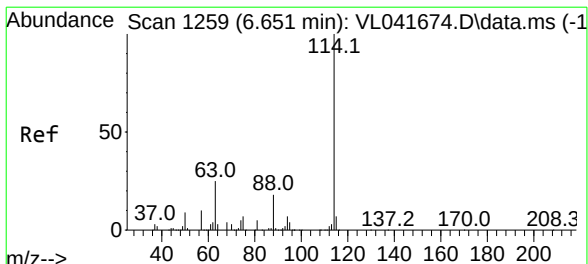


#32  
 1,1,1-Trichloroethane  
 Concen: 9.978 ppbv  
 RT: 6.037 min Scan# 1068  
 Delta R.T. 0.003 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16



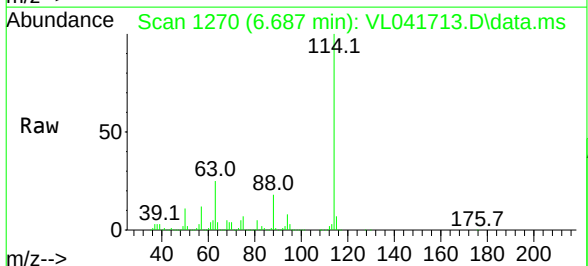
Tgt Ion: 97 Resp: 1669061  
 Ion Ratio Lower Upper  
 97 100  
 99 64.7 51.4 77.2  
 61 52.1 41.7 62.5





#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 6.687 min Scan# 12  
 Delta R.T. 0.003 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1121ABS01

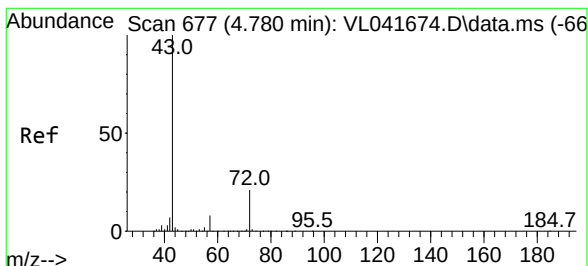
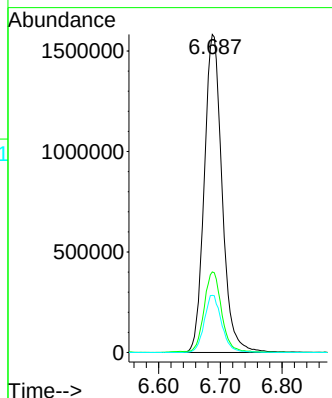
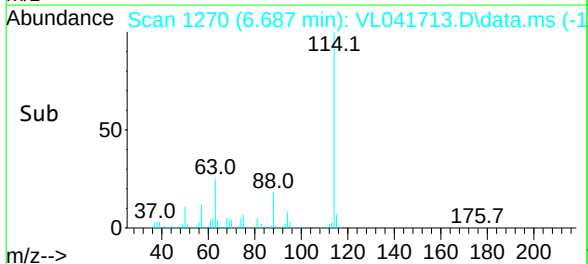


Tgt Ion: 114 Resp: 3168983

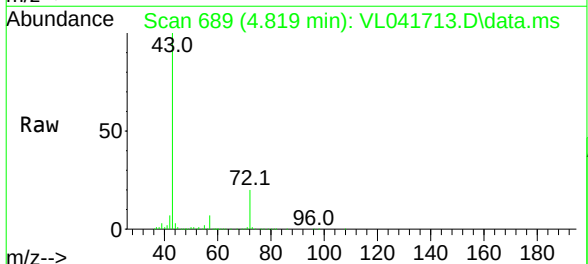
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 25.4  | 20.3  | 30.5  |
| 88  | 17.6  | 14.2  | 21.4  |

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 Supervised By :Mahesh Dadoda 11/22/2024

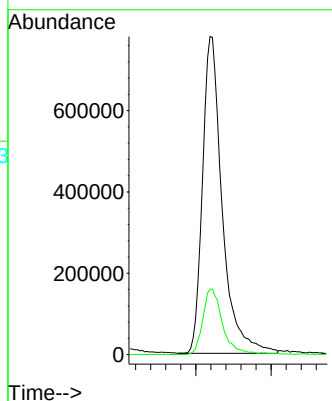
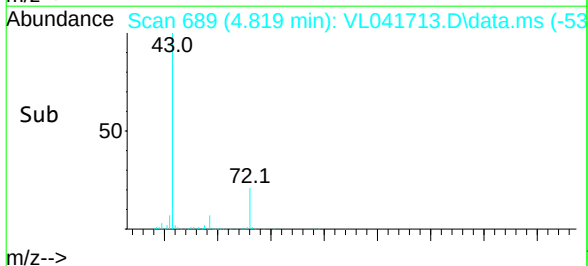


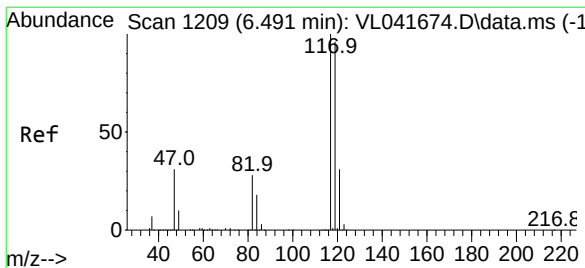
#34  
 2-Butanone  
 Concen: 8.985 ppbv  
 RT: 4.819 min Scan# 689  
 Delta R.T. 0.003 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16



Tgt Ion: 43 Resp: 1417727

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 21.1  | 17.4  | 26.0  |





#35

Carbon Tetrachloride

Concen: 10.418 ppbv

RT: 6.529 min Scan# 12

Delta R.T. 0.003 min

Lab File: VL041713.D

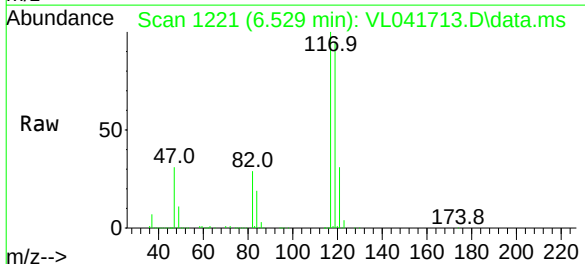
Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

VL1121ABS01



Tgt Ion:117 Resp: 1741838

Ion Ratio Lower Upper

117 100

119 94.7 77.2 115.8

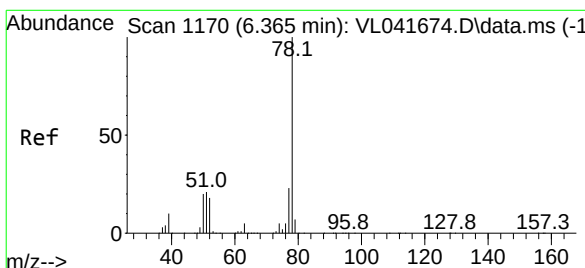
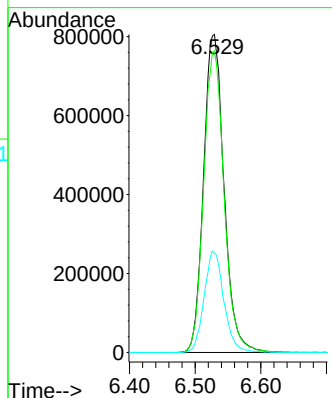
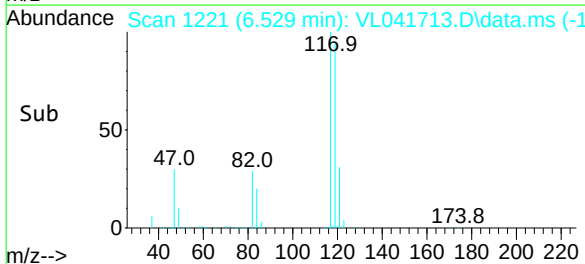
121 31.3 25.0 37.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/22/2024

Supervised By :Mahesh Dadoda 11/22/2024



#36

Benzene

Concen: 9.847 ppbv

RT: 6.404 min Scan# 1182

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

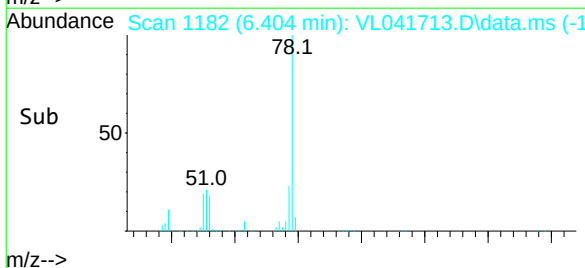
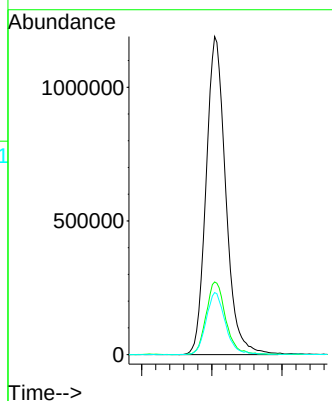
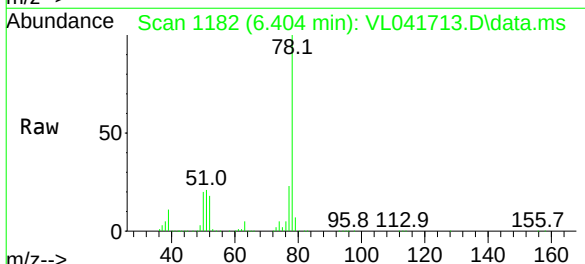
Tgt Ion: 78 Resp: 2312069

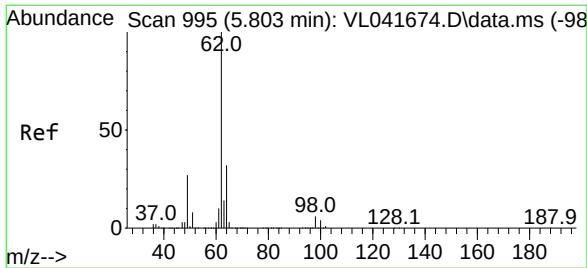
Ion Ratio Lower Upper

78 100

77 22.8 18.5 27.7

50 19.5 15.6 23.4





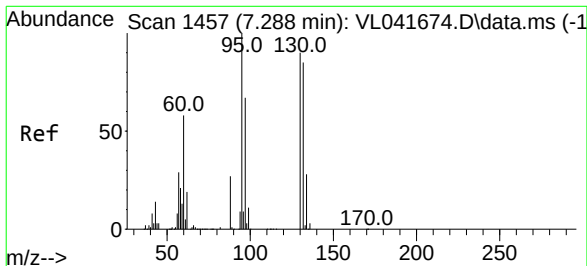
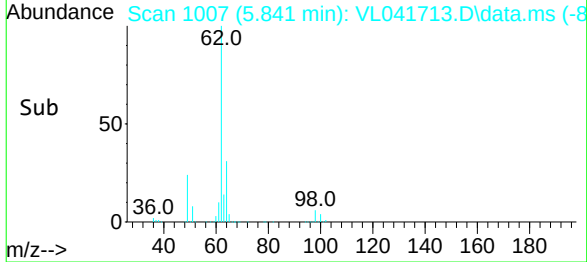
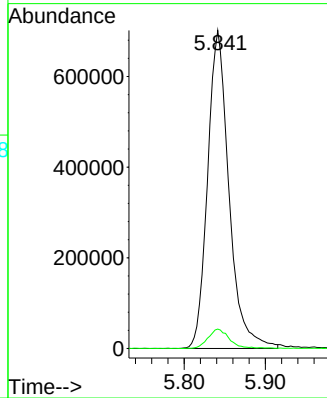
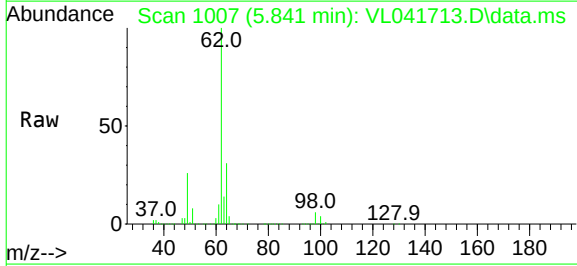
#37  
1,2-Dichloroethane  
Concen: 9.693 ppbv  
RT: 5.841 min Scan# 10  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

Tgt Ion: 62 Resp: 1284047  
Ion Ratio Lower Upper  
62 100  
98 6.3 5.2 7.8

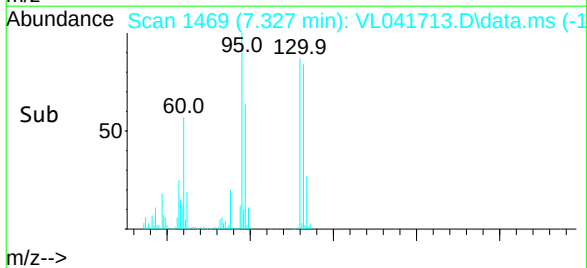
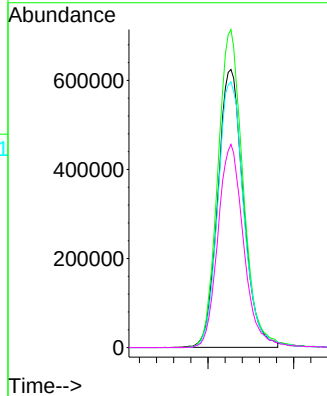
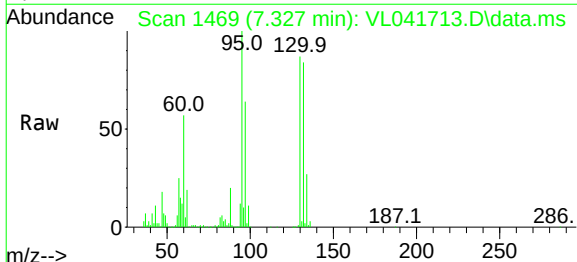
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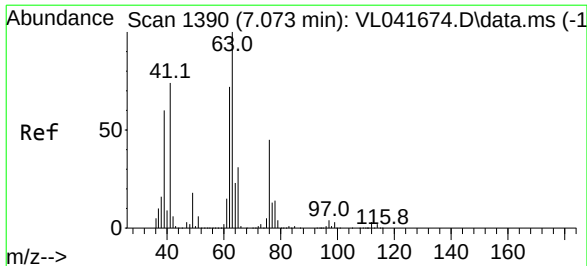
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#38  
Trichloroethene  
Concen: 14.303 ppbv  
RT: 7.327 min Scan# 1469  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion:130 Resp: 1289883  
Ion Ratio Lower Upper  
130 100  
95 114.5 89.1 133.7  
132 95.7 75.7 113.5  
97 73.1 60.0 90.0





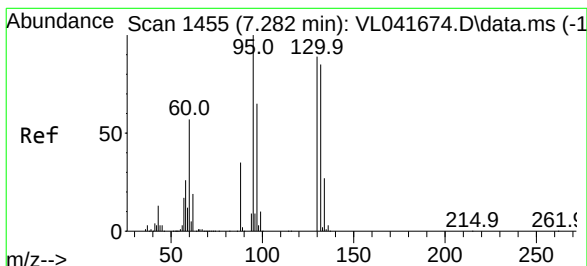
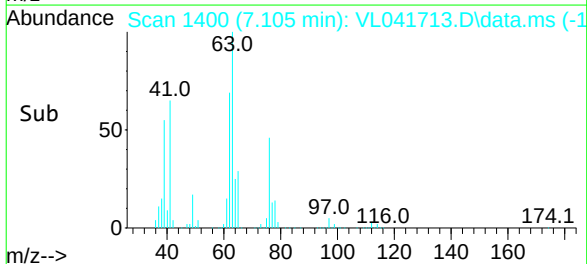
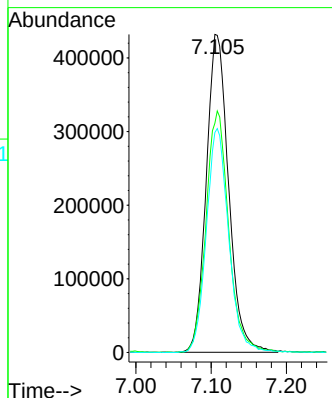
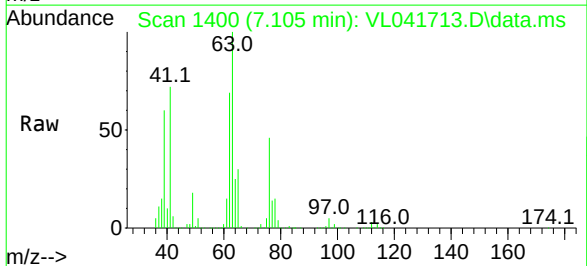
#39  
1,2-Dichloropropane  
Concen: 9.610 ppbv  
RT: 7.105 min Scan# 14  
Delta R.T. -0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

Tgt Ion: 63 Resp: 891656  
Ion Ratio Lower Upper  
63 100  
41 72.0 59.1 88.7  
62 69.2 57.7 86.5

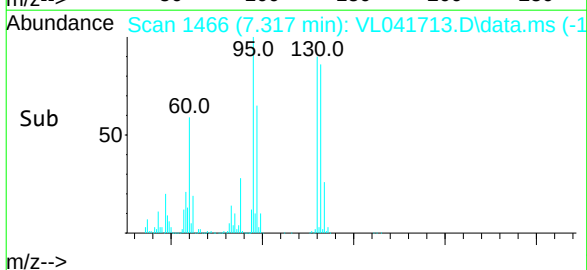
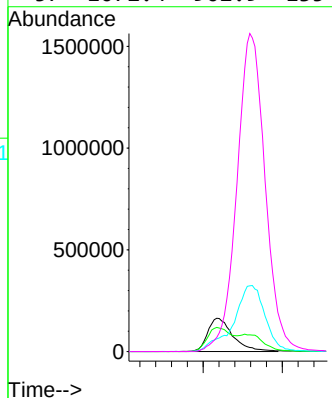
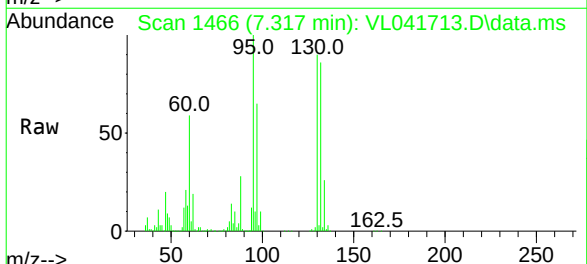
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

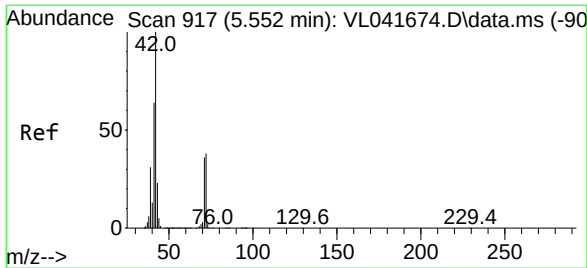


#40  
1,4-Dioxane  
Concen: 10.912 ppbv  
RT: 7.317 min Scan# 1466  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 88 Resp: 363295  
Ion Ratio Lower Upper  
88 100  
58 120.6 101.4 152.2  
43 249.9 208.0 312.0  
57 1072.4 902.9 1354.3







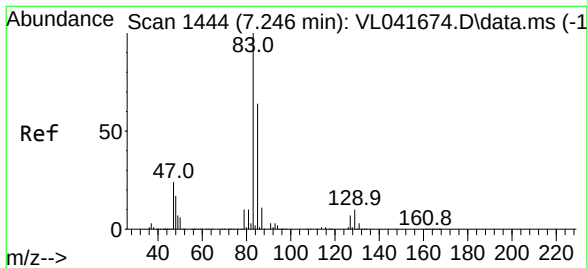
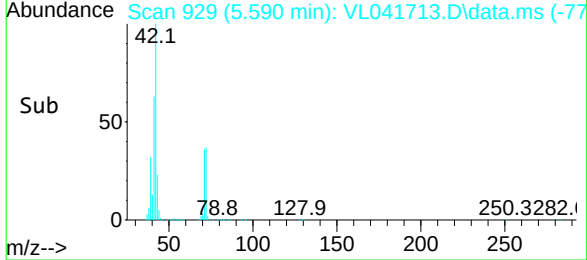
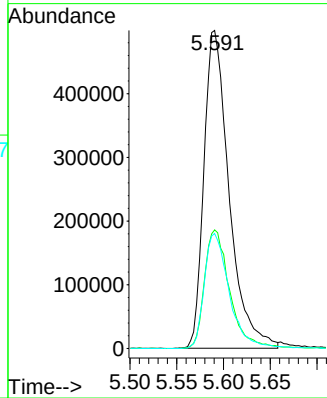
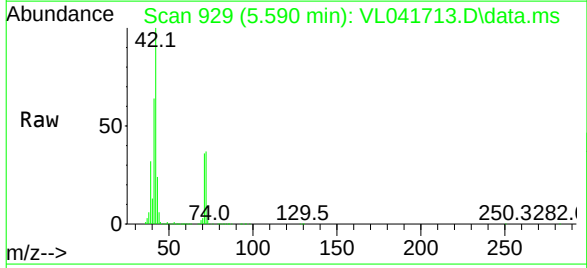
#41  
Tetrahydrofuran  
Concen: 10.375 ppbv  
RT: 5.590 min Scan# 92  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

| Tgt Ion: | 42    | Resp: | 934965 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 72       | 37.8  | 29.8  | 44.6   |
| 71       | 36.3  | 29.4  | 44.2   |

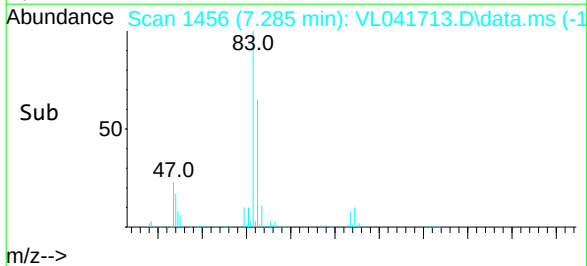
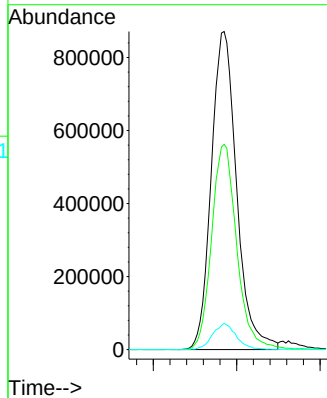
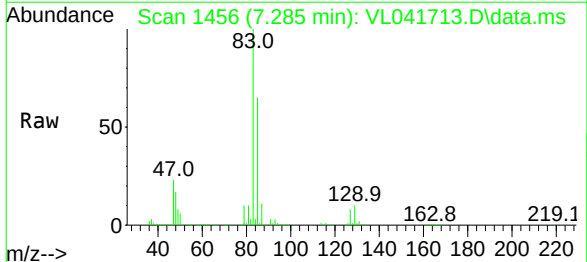
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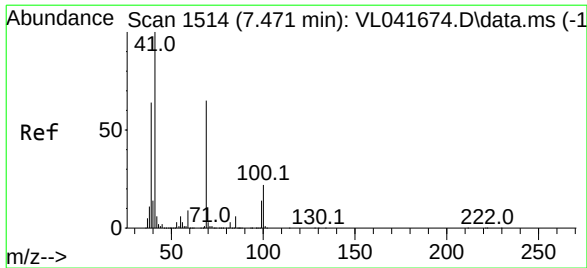
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#42  
Bromodichloromethane  
Concen: 9.994 ppbv  
RT: 7.285 min Scan# 1456  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

| Tgt Ion: | 83    | Resp: | 1839599 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 83       | 100   |       |         |
| 85       | 64.5  | 51.2  | 76.8    |
| 127      | 8.2   | 6.0   | 9.0     |





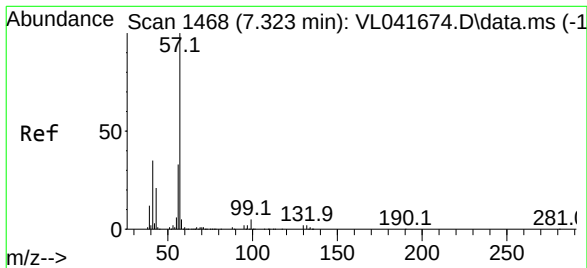
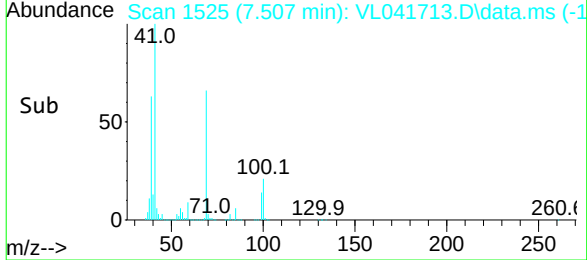
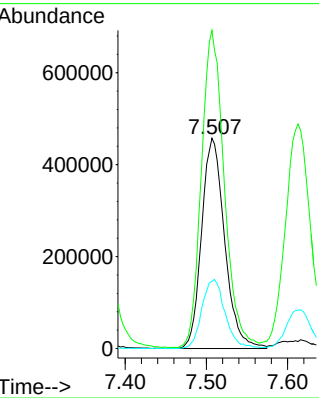
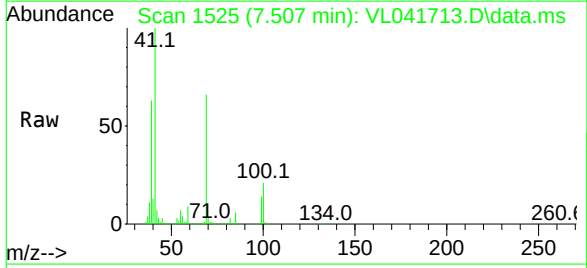
#43  
Methyl Methacrylate  
Concen: 10.937 ppbv  
RT: 7.507 min Scan# 1514  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

Tgt Ion: 69 Resp: 901641  
Ion Ratio Lower Upper  
69 100  
41 150.0 119.8 179.6  
100 33.1 27.3 40.9

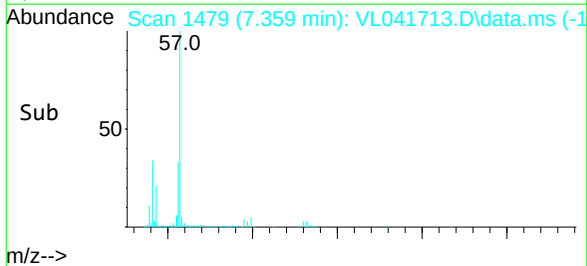
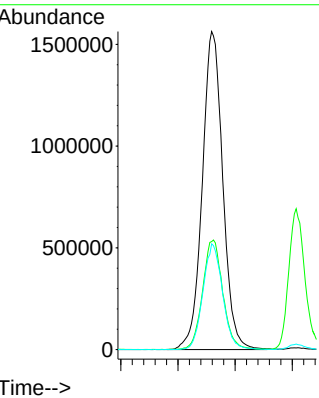
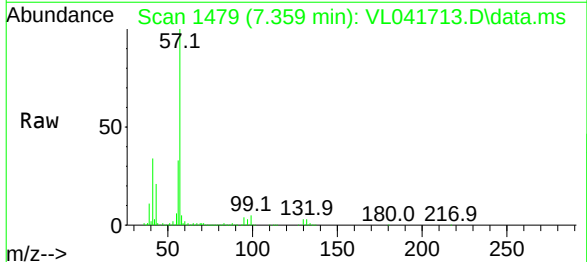
Manual Integrations  
APPROVED

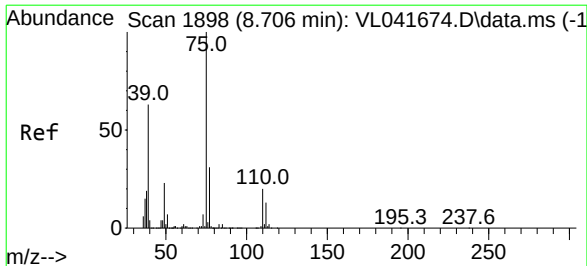
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#44  
2,2,4-Trimethylpentane  
Concen: 9.791 ppbv  
RT: 7.359 min Scan# 1479  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 57 Resp: 3894162  
Ion Ratio Lower Upper  
57 100  
41 33.9 27.0 40.6  
56 31.9 25.8 38.6





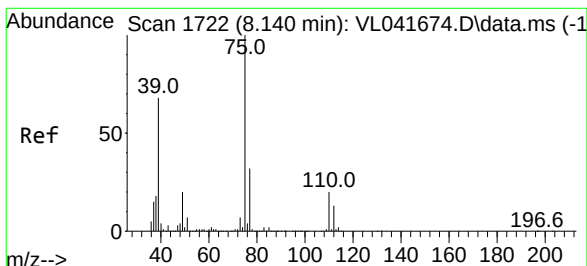
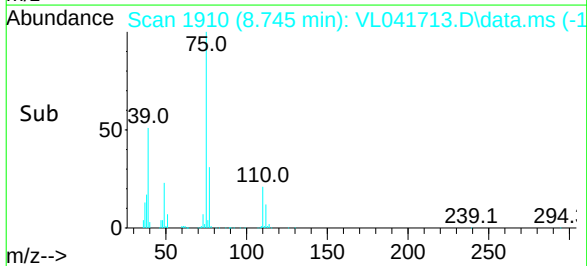
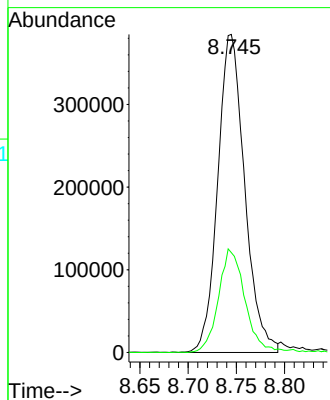
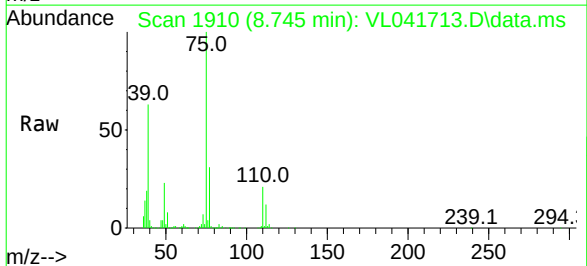
#45  
t-1,3-Dichloropropene  
Concen: 9.931 ppbv  
RT: 8.745 min Scan# 1910  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

Tgt Ion: 75 Resp: 748133  
Ion Ratio Lower Upper  
75 100  
77 31.4 24.7 37.1

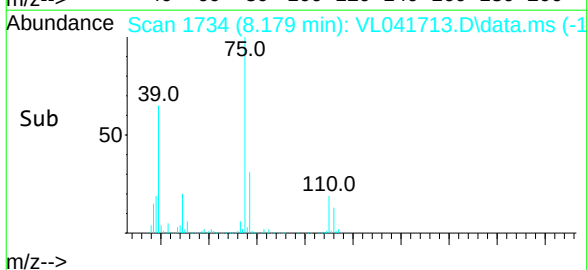
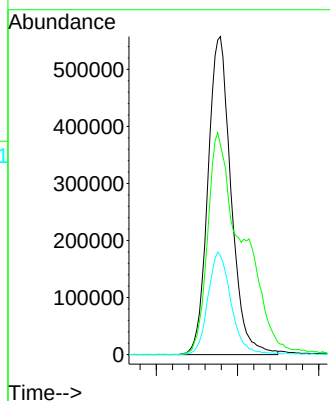
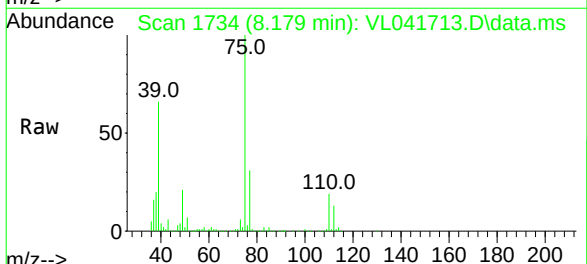
Manual Integrations  
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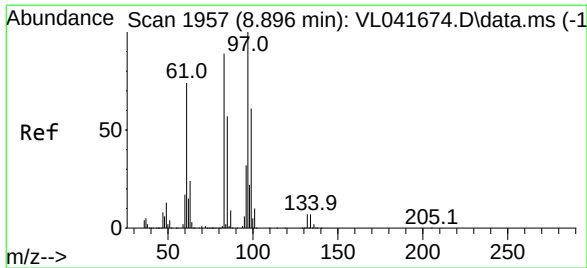
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#46  
cis-1,3-Dichloropropene  
Concen: 10.203 ppbv  
RT: 8.179 min Scan# 1734  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

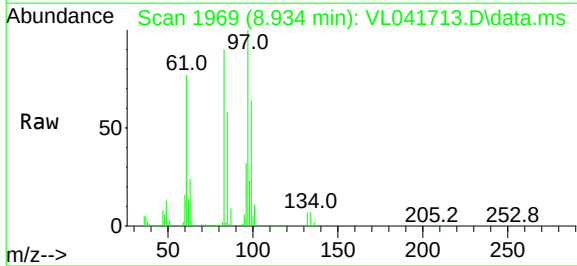
Tgt Ion: 75 Resp: 1103972  
Ion Ratio Lower Upper  
75 100  
39 65.9 54.1 81.1  
77 31.1 25.3 37.9





#47  
1,1,2-Trichloroethane  
Concen: 9.451 ppbv  
RT: 8.934 min Scan# 1957  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

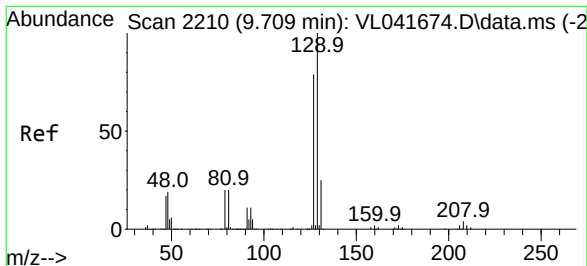
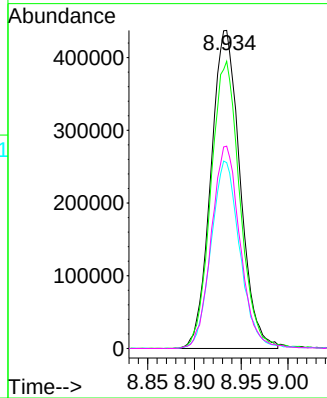
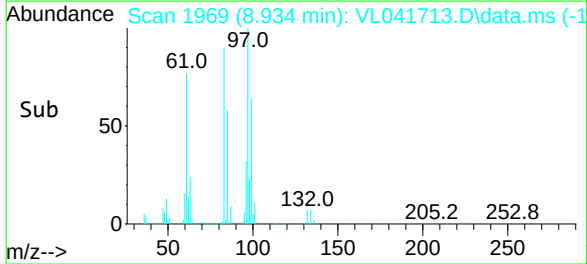
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



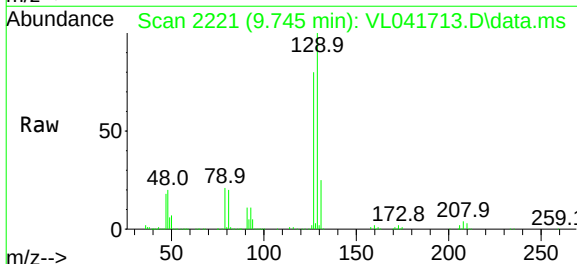
Tgt Ion: 97 Resp: 949123  
Ion Ratio Lower Upper  
97 100  
83 90.1 71.0 106.6  
85 58.3 45.4 68.2  
99 63.5 49.0 73.6

Manual Integrations  
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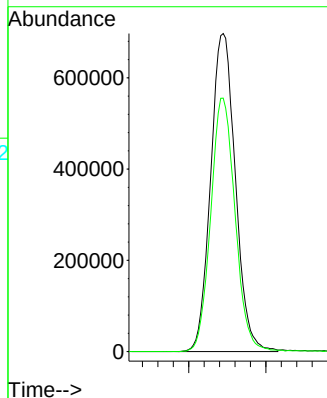
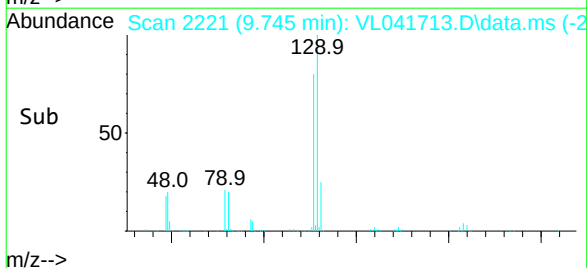
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

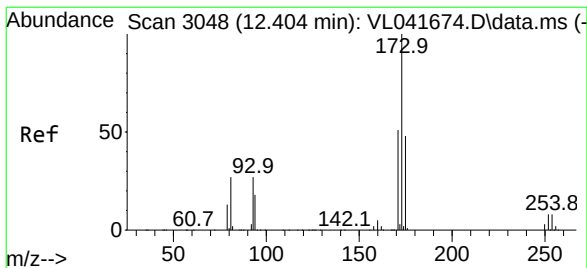


#48  
Dibromochloromethane  
Concen: 10.178 ppbv  
RT: 9.745 min Scan# 2221  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



Tgt Ion:129 Resp: 1553797  
Ion Ratio Lower Upper  
129 100  
127 78.5 39.1 117.2





#49

Bromoform

Concen: 10.451 ppbv

RT: 12.439 min Scan# 3048

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

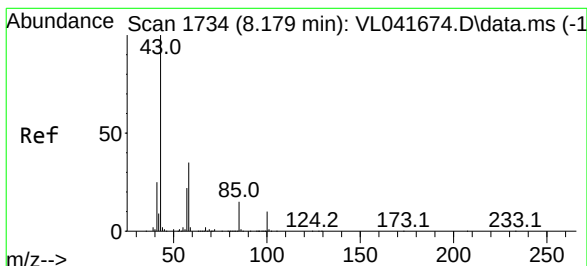
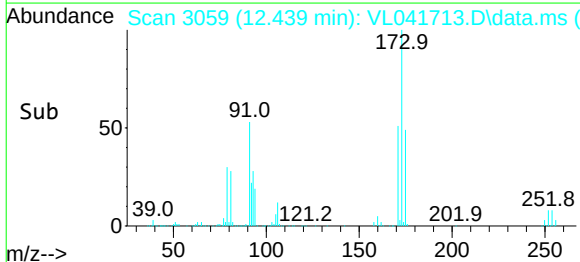
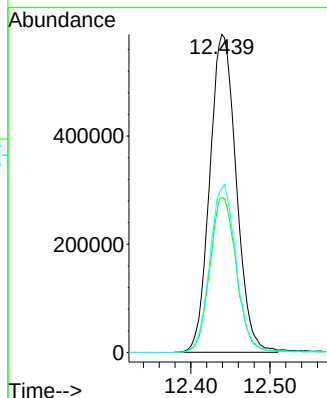
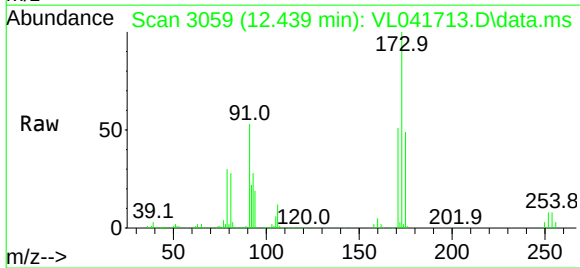
ClientSampleId :

VL1121ABS01

Tgt Ion: 173 Resp: 1365111  
 Ion Ratio Lower Upper  
 173 100  
 175 49.0 39.2 58.8  
 171 52.2 41.7 62.5

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 Supervised By :Mahesh Dadoda 11/22/2024



#50

4-Methyl-2-Pentanone

Concen: 10.366 ppbv

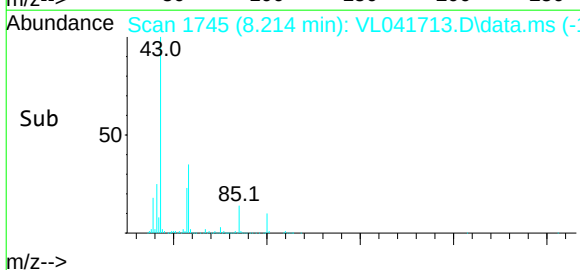
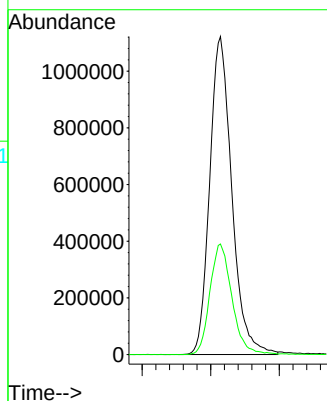
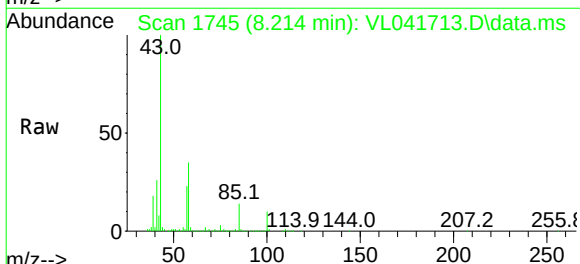
RT: 8.214 min Scan# 1745

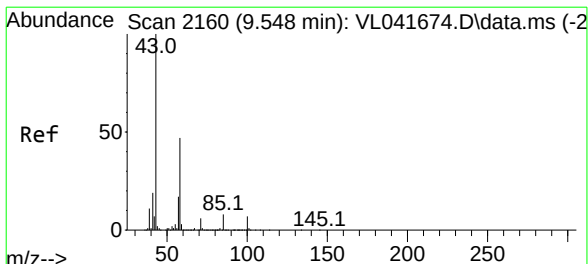
Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Tgt Ion: 43 Resp: 2511109  
 Ion Ratio Lower Upper  
 43 100  
 58 34.9 27.7 41.5





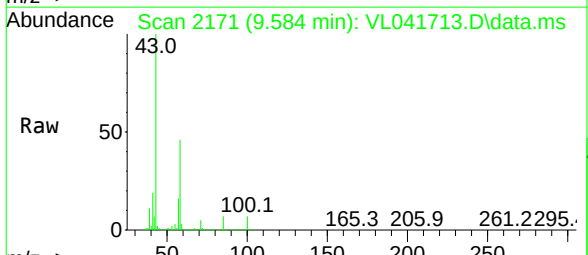
#51  
 2-Hexanone  
 Concen: 11.157 ppbv  
 RT: 9.584 min Scan# 211  
 Delta R.T. 0.003 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

VL1121ABS01

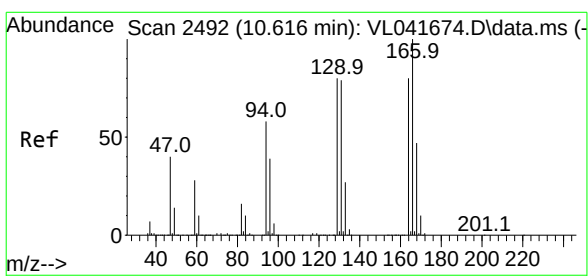
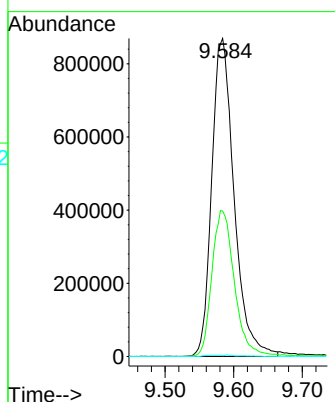
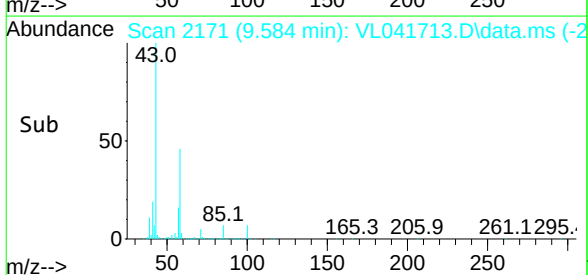


Tgt Ion: 43 Resp: 1968115

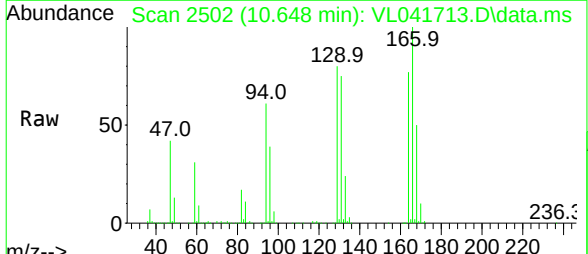
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 46.6  | 37.0  | 55.6  |
| 98  | 0.7   | 0.6   | 0.8   |

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 Supervised By :Mahesh Dadoda 11/22/2024

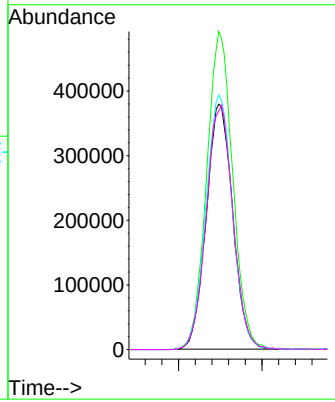
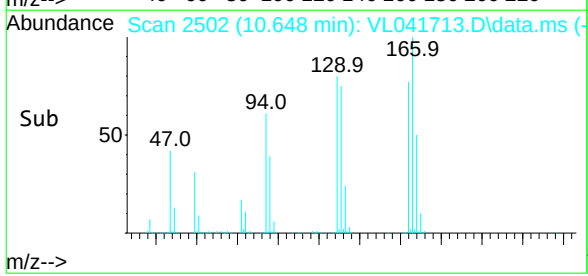


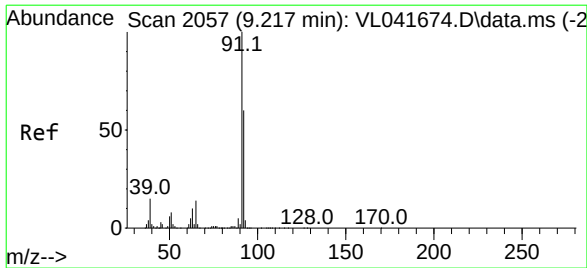
#52  
 Tetrachloroethene  
 Concen: 10.419 ppbv  
 RT: 10.648 min Scan# 2502  
 Delta R.T. 0.000 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16



Tgt Ion: 164 Resp: 833665

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 129.4 | 100.2 | 150.4 |
| 129 | 103.6 | 79.7  | 119.5 |
| 131 | 97.1  | 79.0  | 118.4 |





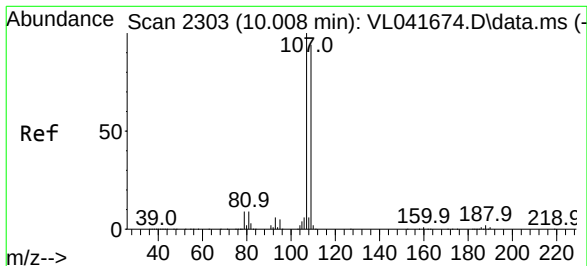
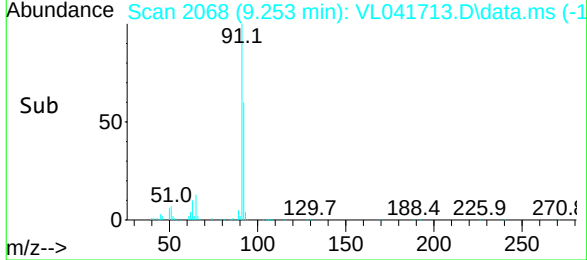
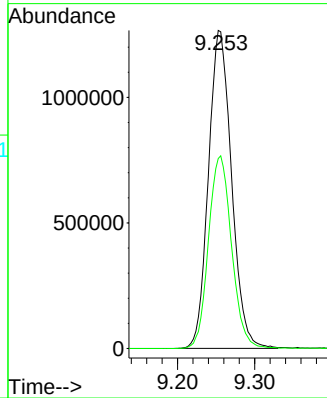
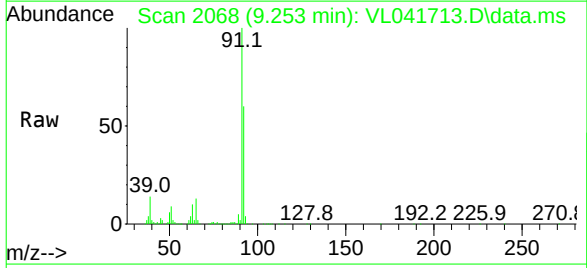
#53  
Toluene  
Concen: 10.664 ppbv  
RT: 9.253 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

Tgt Ion: 91 Resp: 2633054  
Ion Ratio Lower Upper  
91 100  
92 60.6 49.0 73.4

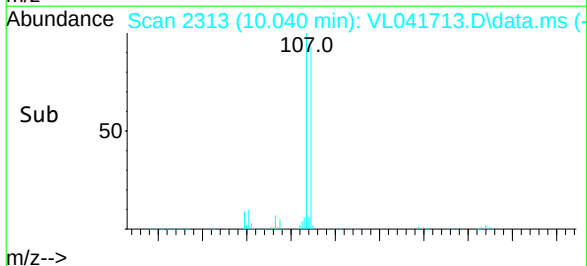
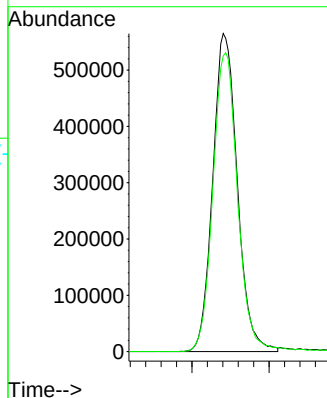
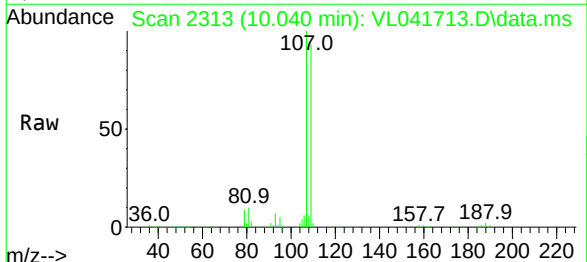
Manual Integrations  
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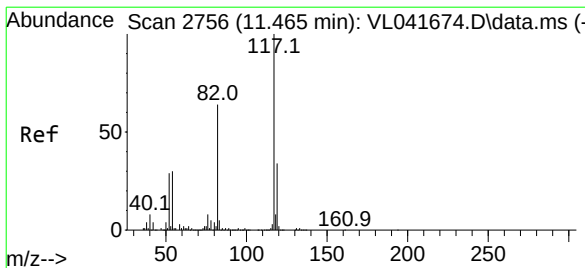
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#54  
1,2-Dibromoethane  
Concen: 10.629 ppbv  
RT: 10.040 min Scan# 2313  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

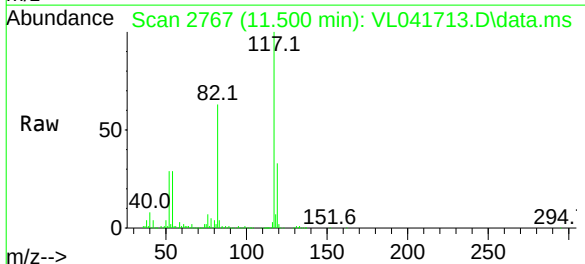
Tgt Ion:107 Resp: 1247128  
Ion Ratio Lower Upper  
107 100  
109 93.0 74.9 112.3





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 11.500 min Scan# 2756  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

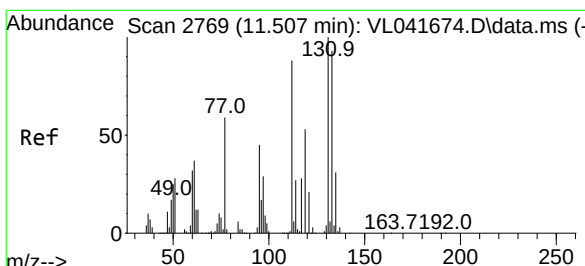
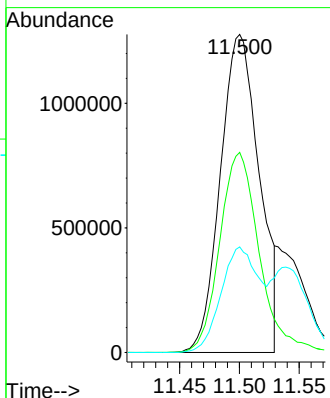
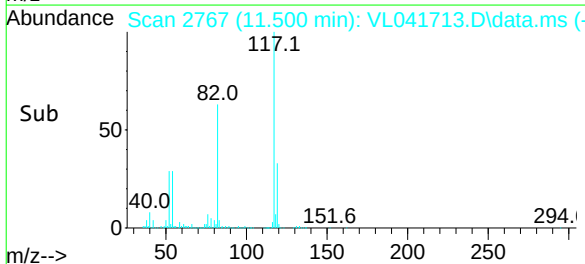
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



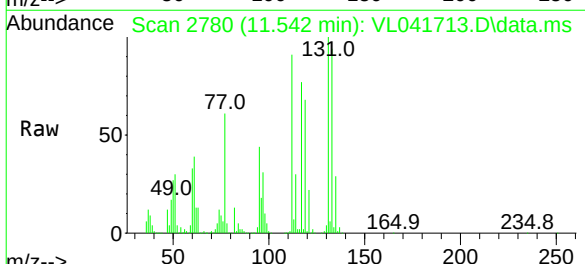
Tgt Ion:117 Resp: 2890162  
Ion Ratio Lower Upper  
117 100  
82 64.5 49.8 74.8  
119 32.7 24.2 36.4

Manual Integrations  
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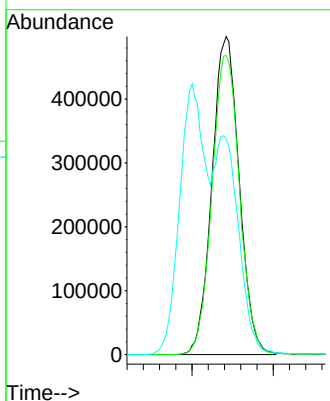
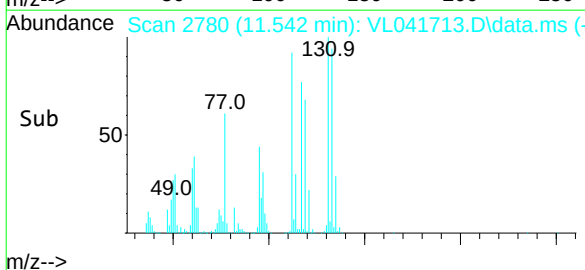
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



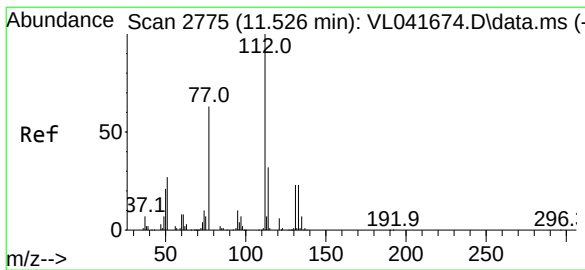
#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.718 ppbv  
RT: 11.542 min Scan# 2780  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



Tgt Ion:131 Resp: 1158400  
Ion Ratio Lower Upper  
131 100  
133 95.5 76.5 114.7  
119 62.4 49.8 74.8

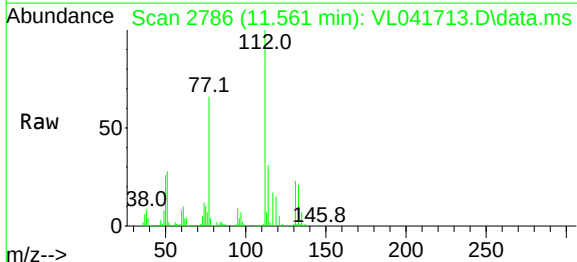






#57  
Chlorobenzene  
Concen: 9.722 ppbv  
RT: 11.561 min Scan# 2775  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

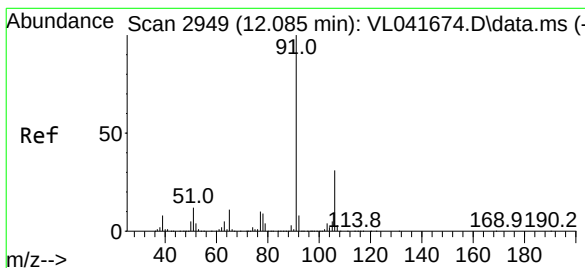
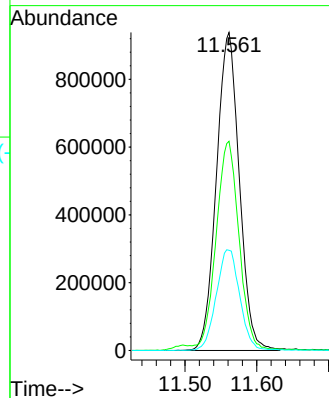
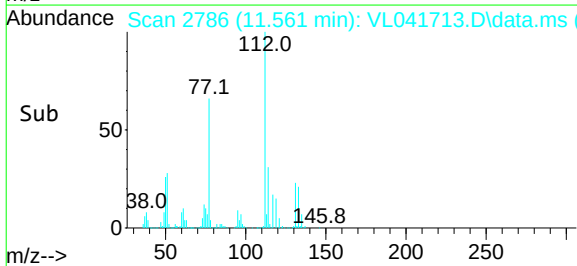
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



Tgt Ion:112 Resp: 2078199  
Ion Ratio Lower Upper  
112 100  
77 65.4 51.4 77.2  
114 31.4 28.4 34.8

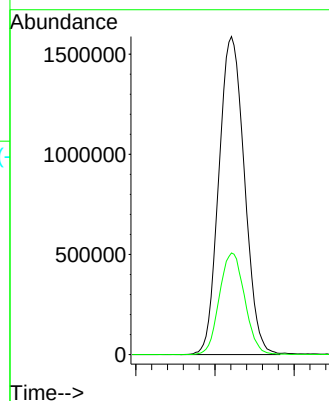
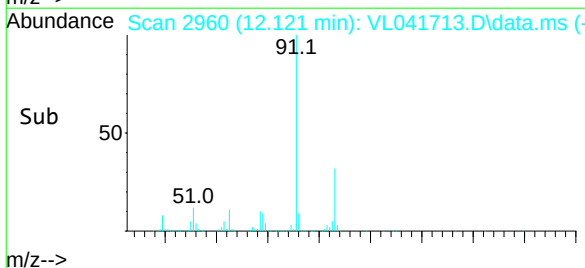
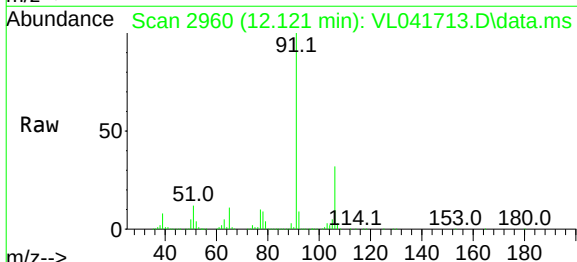
Manual Integrations  
APPROVED

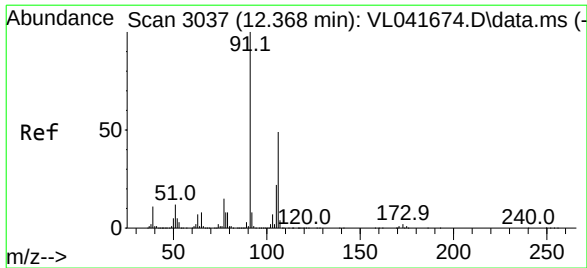
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#58  
Ethyl Benzene  
Concen: 11.254 ppbv  
RT: 12.121 min Scan# 2960  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 91 Resp: 3565857  
Ion Ratio Lower Upper  
91 100  
106 32.0 24.9 37.3





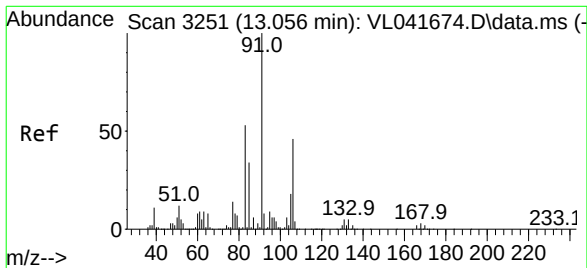
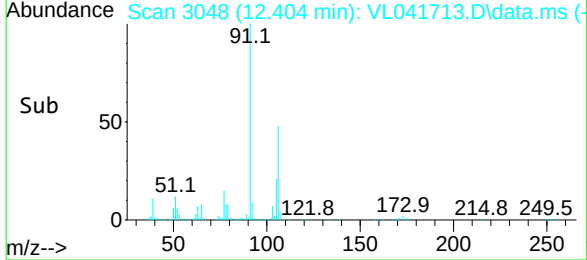
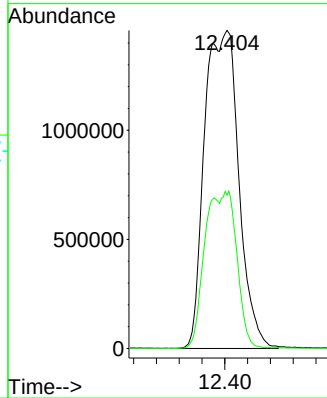
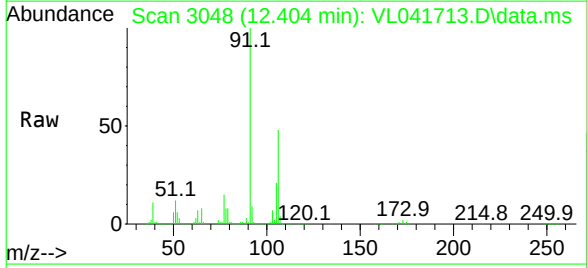
#59  
m/p-Xylene  
Concen: 21.427 ppbv m  
RT: 12.404 min Scan# 3037  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

Tgt Ion: 91 Resp: 6079786  
Ion Ratio Lower Upper  
91 100  
106 46.1 36.9 55.3

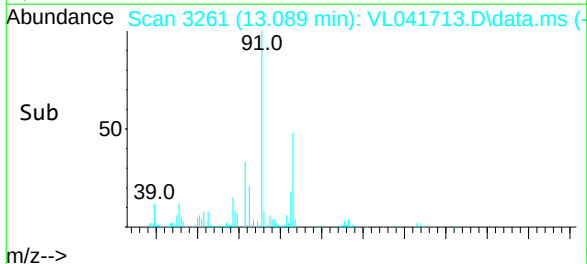
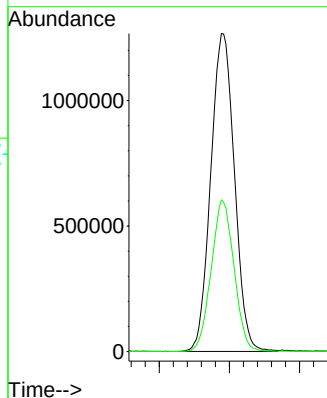
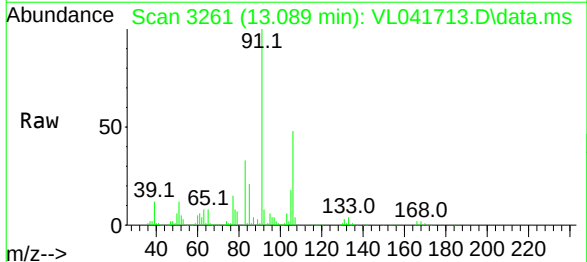
Manual Integrations  
APPROVED

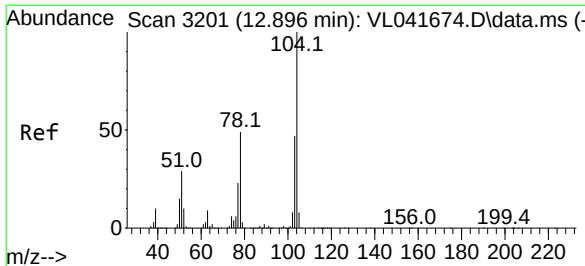
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#60  
o-Xylene  
Concen: 10.985 ppbv  
RT: 13.089 min Scan# 3261  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 91 Resp: 2972199  
Ion Ratio Lower Upper  
91 100  
106 45.9 23.2 69.6





#61

Styrene

Concen: 12.630 ppbv

RT: 12.931 min Scan# 3201

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

VL1121ABS01

Tgt Ion:104 Resp: 1410360

Ion Ratio Lower Upper

104 100

78 50.4 39.8 59.8

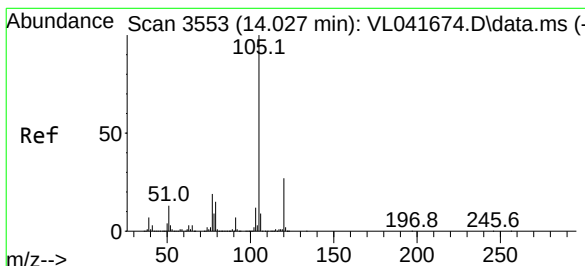
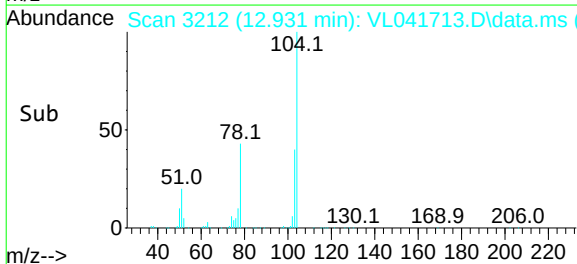
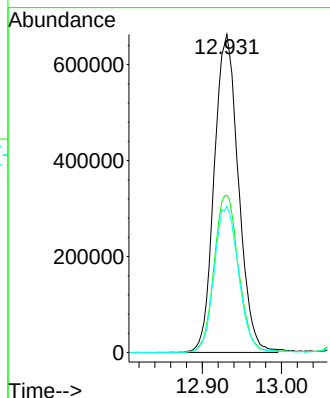
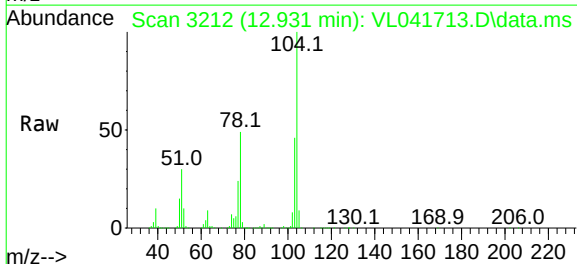
103 46.8 37.4 56.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/22/2024

Supervised By :Mahesh Dadoda 11/22/2024



#62

Isopropylbenzene

Concen: 10.202 ppbv

RT: 14.060 min Scan# 3563

Delta R.T. 0.000 min

Lab File: VL041713.D

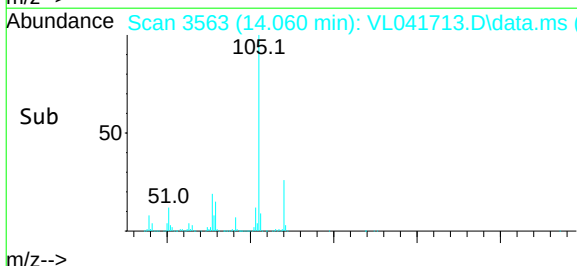
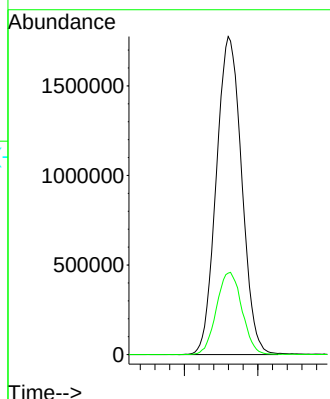
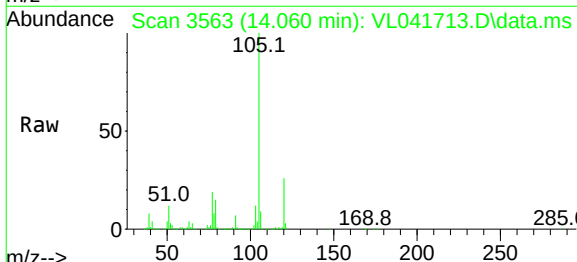
Acq: 21 Nov 2024 10:16

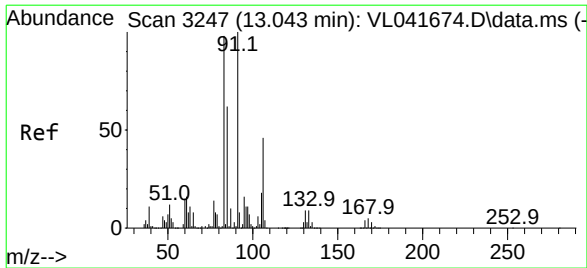
Tgt Ion:105 Resp: 4263154

Ion Ratio Lower Upper

105 100

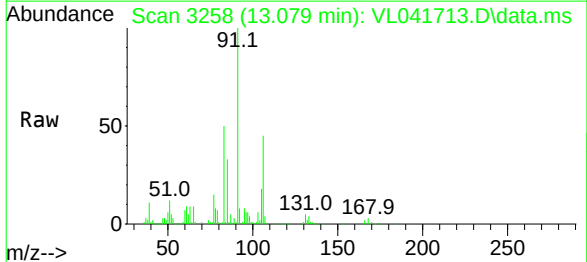
120 26.0 21.1 31.7





#63  
1,1,2,2-Tetrachloroethane  
Concen: 5.927 ppbv  
RT: 13.079 min Scan# 3247  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

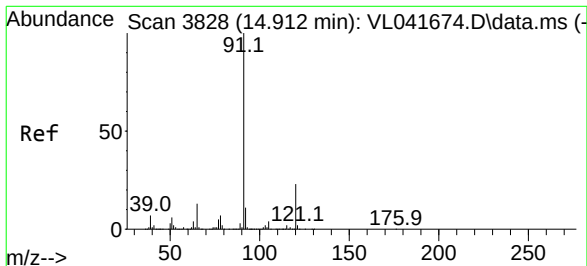
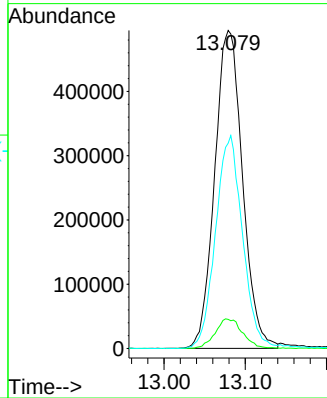
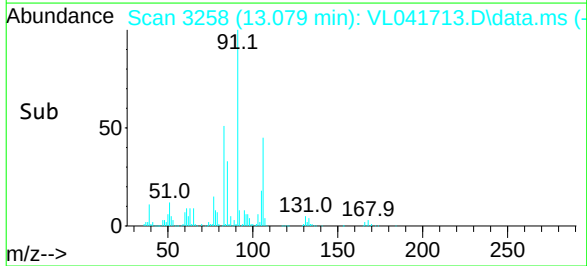
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



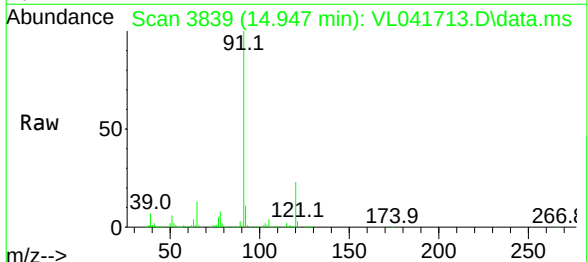
Tgt Ion: 83 Resp: 1179536  
Ion Ratio Lower Upper  
83 100  
131 9.2 4.8 14.3  
85 65.8 32.6 98.0

Manual Integrations  
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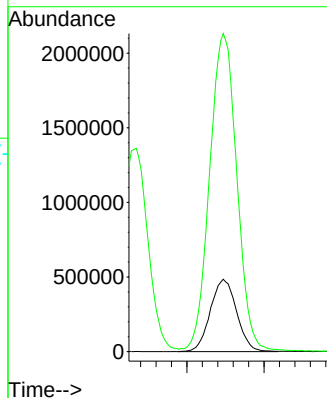
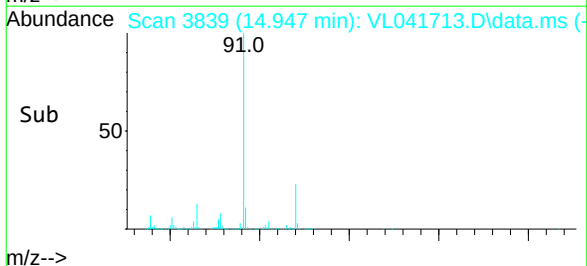
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

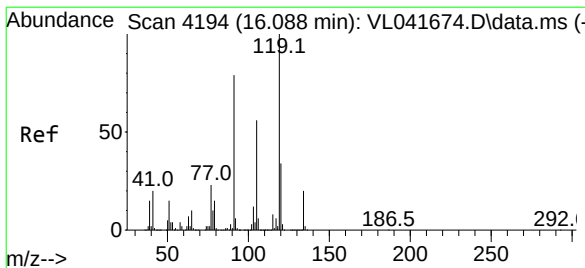


#64  
n-propylbenzene  
Concen: 10.482 ppbv  
RT: 14.947 min Scan# 3839  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



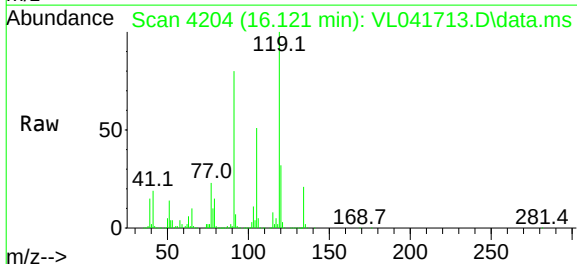
Tgt Ion:120 Resp: 1146628  
Ion Ratio Lower Upper  
120 100  
91 456.5 362.4 543.6





#65  
tert-Butylbenzene  
Concen: 10.215 ppbv  
RT: 16.121 min Scan# 4278  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

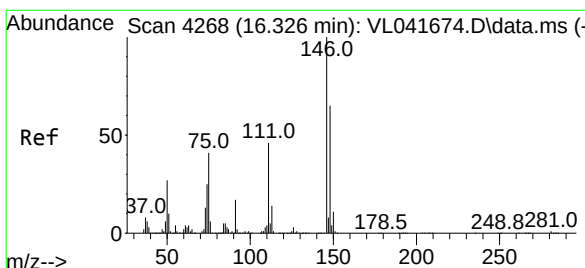
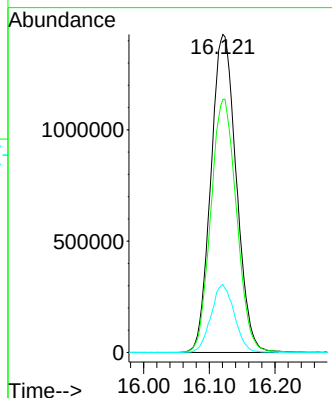
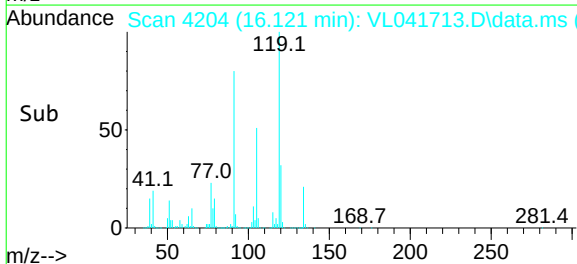
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



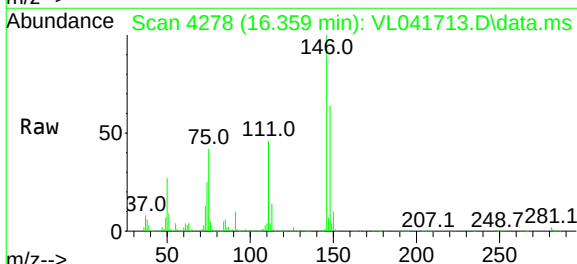
Tgt Ion: 119 Resp: 3836581  
Ion Ratio Lower Upper  
119 100  
91 80.8 64.3 96.5  
134 19.7 15.8 23.8

Manual Integrations  
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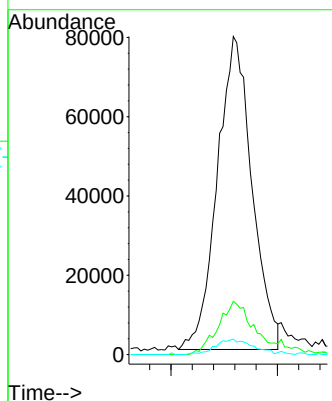
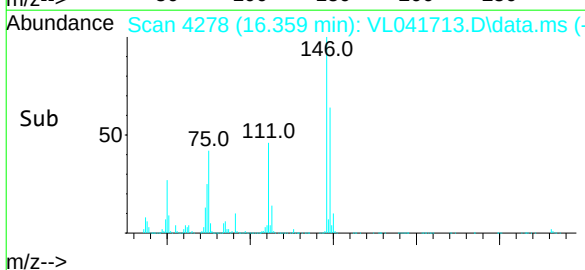
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

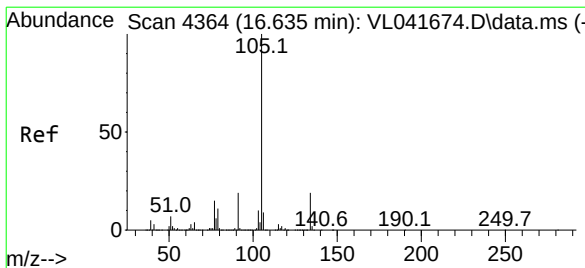


#66  
Benzyl Chloride  
Concen: 6.202 ppbv  
RT: 16.359 min Scan# 4278  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



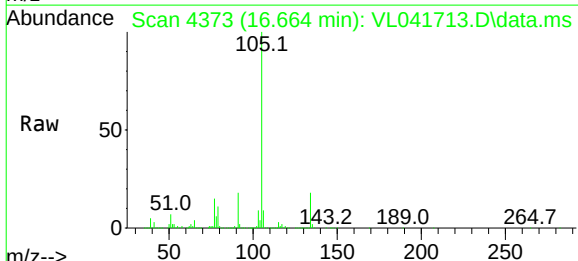
Tgt Ion: 91 Resp: 179175  
Ion Ratio Lower Upper  
91 100  
126 19.3 13.8 20.6  
128 5.7 4.3 6.5





#67  
sec-Butylbenzene  
Concen: 10.134 ppbv  
RT: 16.664 min Scan# 4364  
Delta R.T. -0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

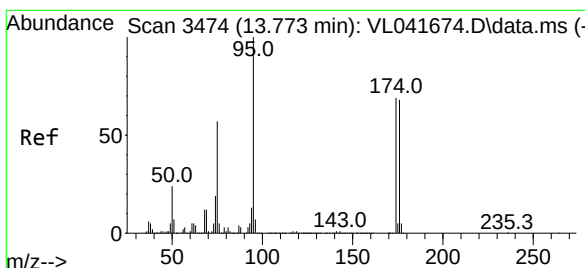
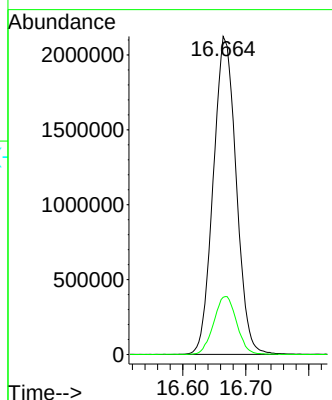
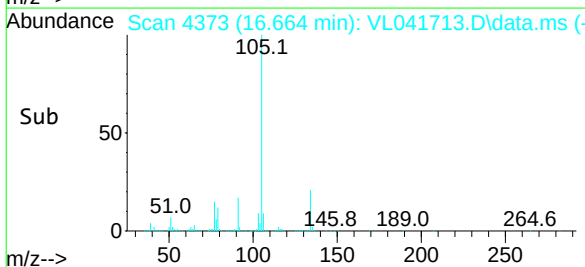
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



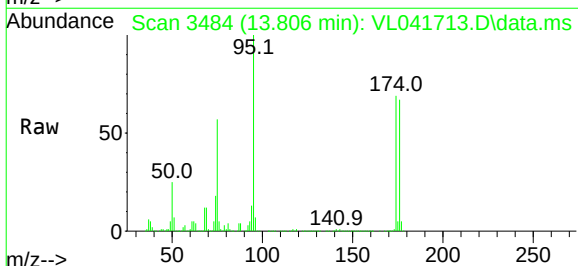
Tgt Ion: 105 Resp: 5364091  
Ion Ratio Lower Upper  
105 100  
134 18.4 14.6 22.0

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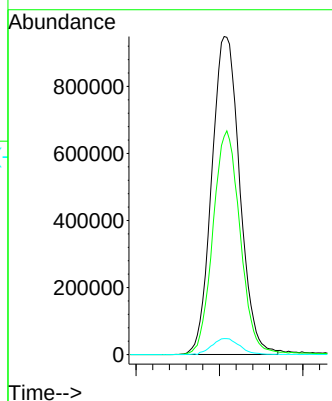
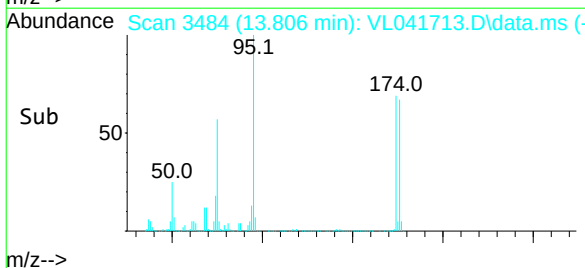
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

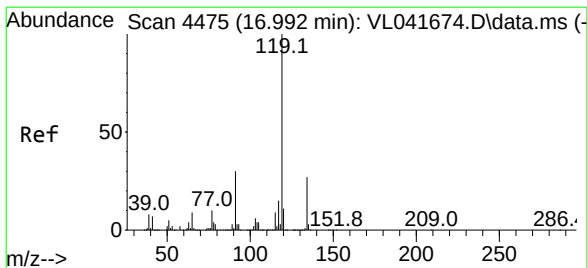


#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.402 ppbv  
RT: 13.806 min Scan# 3484  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



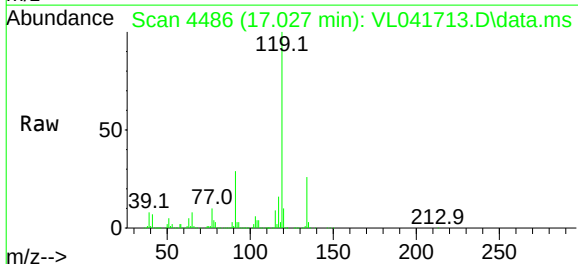
Tgt Ion: 95 Resp: 2215094  
Ion Ratio Lower Upper  
95 100  
174 69.2 55.6 83.4  
175 5.1 4.2 6.2





#69  
p-Isopropyltoluene  
Concen: 10.419 ppbv  
RT: 17.027 min Scan# 4475  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

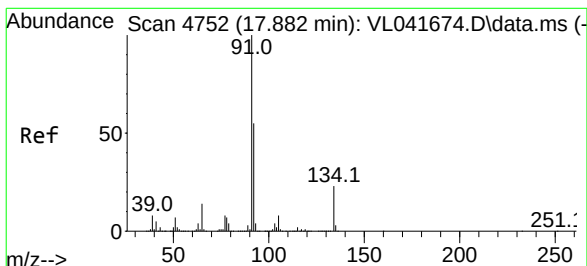
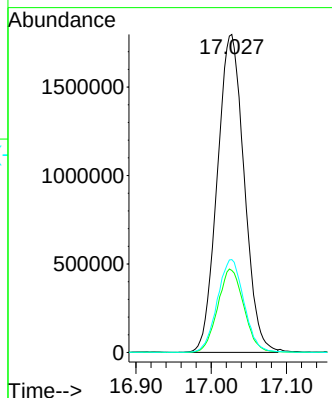
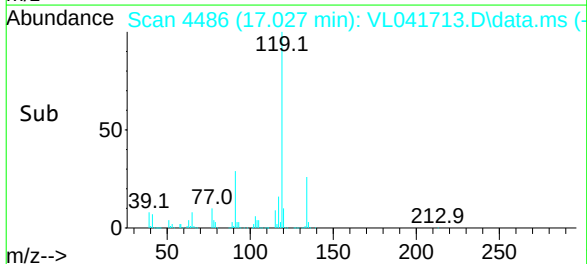
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



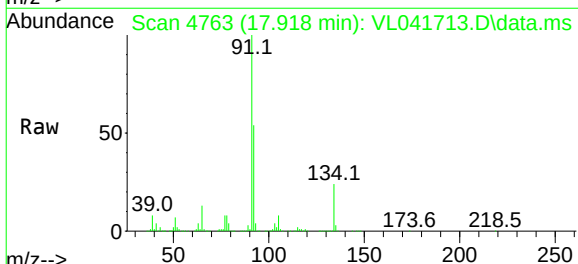
Tgt Ion: 119 Resp: 4458745  
Ion Ratio Lower Upper  
119 100  
134 25.7 20.8 31.2  
91 28.9 23.2 34.8

Manual Integrations  
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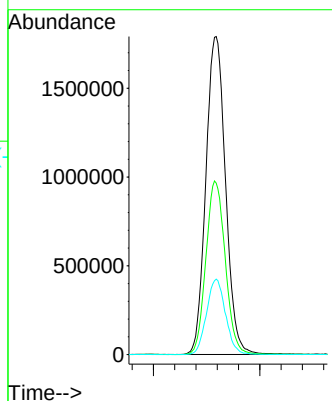
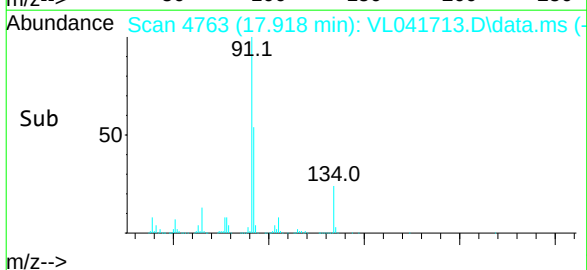
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

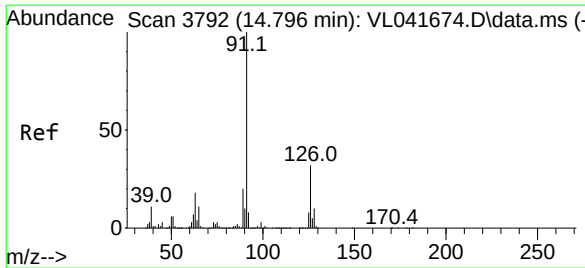


#70  
n-Butylbenzene  
Concen: 10.517 ppbv  
RT: 17.918 min Scan# 4763  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



Tgt Ion: 91 Resp: 4604740  
Ion Ratio Lower Upper  
91 100  
92 53.8 43.3 64.9  
134 23.0 18.4 27.6





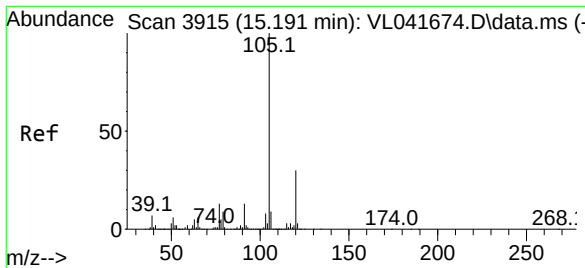
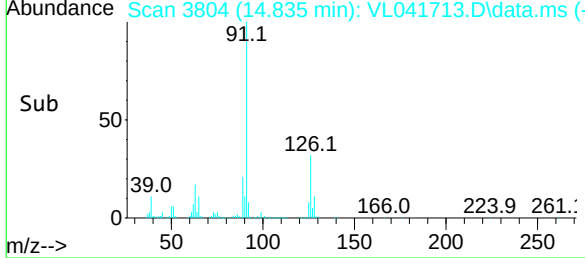
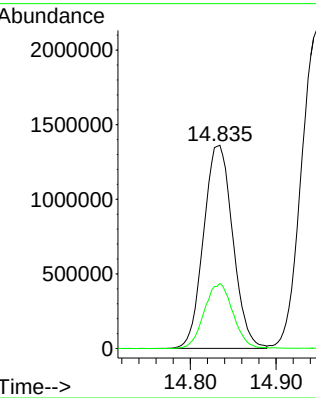
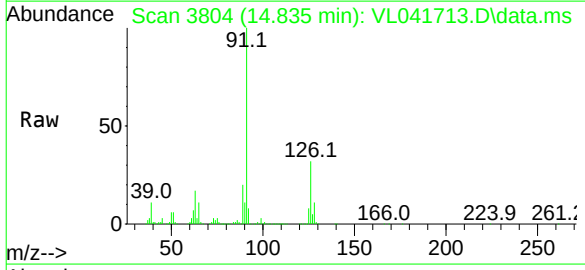
#71  
2-Chlorotoluene  
Concen: 10.671 ppbv  
RT: 14.835 min Scan# 3804  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 91    | Resp: | 3223209 |
| Ion      | Ratio | Lower | Upper   |
| 91       | 100   |       |         |
| 126      | 31.5  | 12.8  | 51.0    |

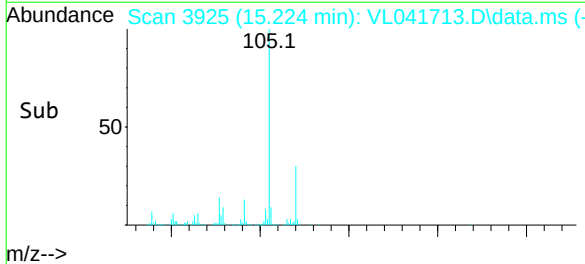
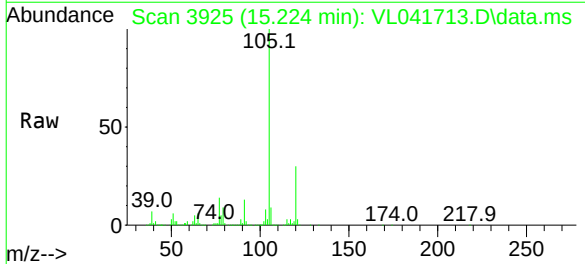
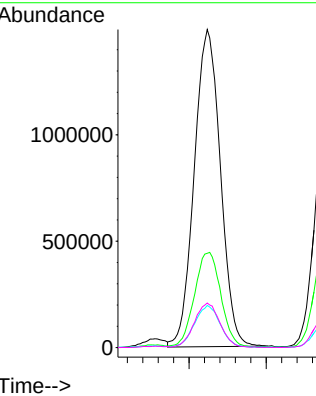
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

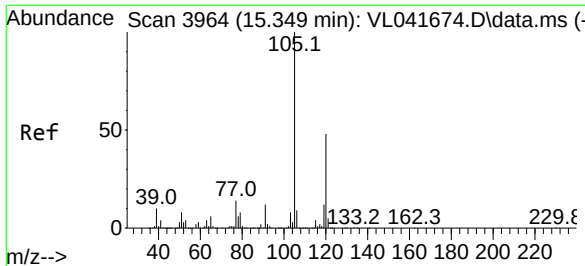


#72  
4-Ethyltoluene  
Concen: 11.173 ppbv  
RT: 15.224 min Scan# 3925  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 105   | Resp: | 3514757 |
| Ion      | Ratio | Lower | Upper   |
| 105      | 100   |       |         |
| 120      | 30.6  | 25.0  | 37.4    |
| 91       | 13.1  | 10.6  | 15.8    |
| 77       | 14.2  | 11.1  | 16.7    |

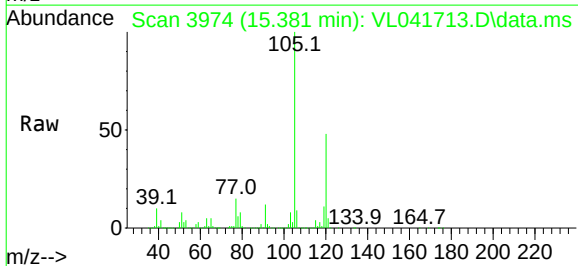






#73  
1,3,5-Trimethylbenzene  
Concen: 10.867 ppbv  
RT: 15.381 min Scan# 3964  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

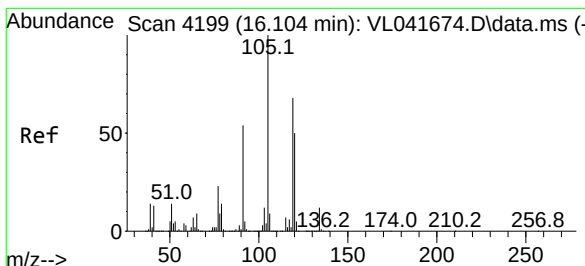
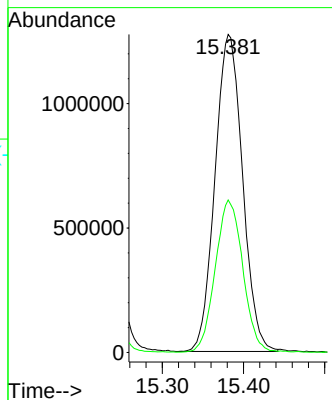
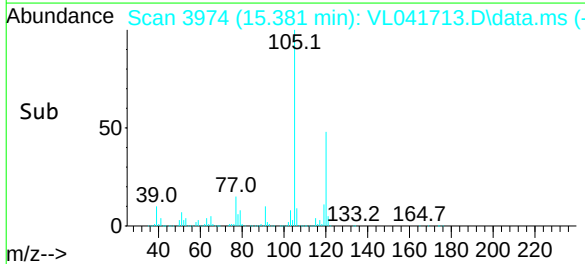
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01



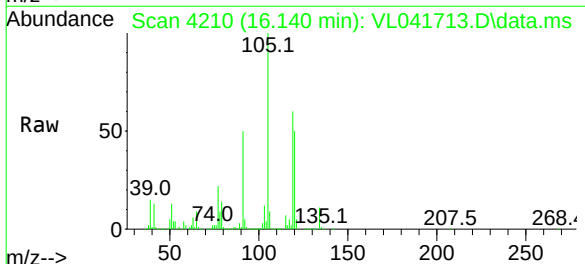
Tgt Ion:105 Resp: 2999740  
Ion Ratio Lower Upper  
105 100  
120 48.0 38.4 57.6

Manual Integrations  
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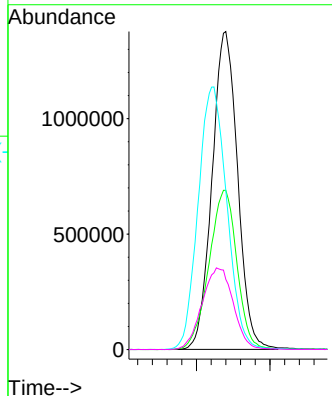
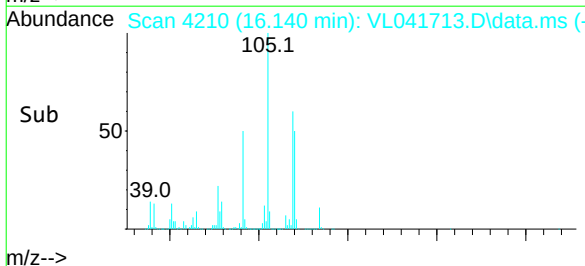
Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024

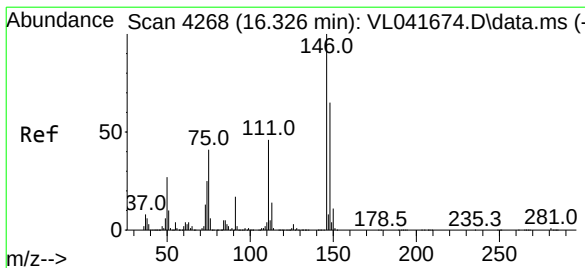


#74  
1,2,4-Trimethylbenzene  
Concen: 10.358 ppbv  
RT: 16.140 min Scan# 4210  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16



Tgt Ion:105 Resp: 3320988  
Ion Ratio Lower Upper  
105 100  
120 49.8 39.8 59.8  
91 49.6 43.2 64.8  
77 21.8 18.5 27.7





#75

1,3-Dichlorobenzene

Concen: 10.215 ppbv

RT: 16.362 min Scan# 4268

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

VL1121ABS01

Tgt Ion:146 Resp: 2028386

Ion Ratio Lower Upper

146 100

111 45.2 22.8 68.3

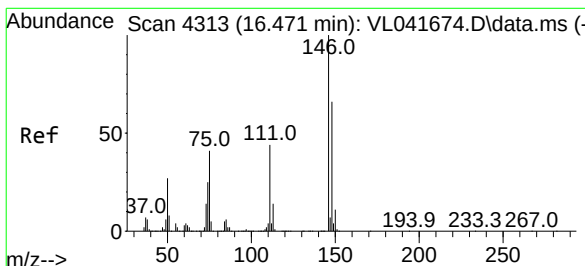
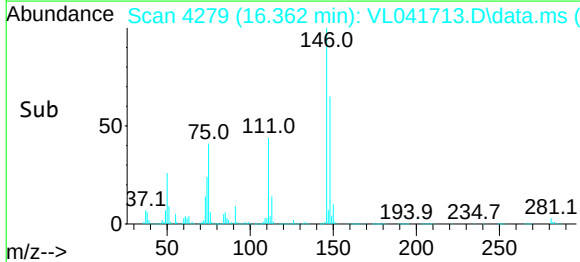
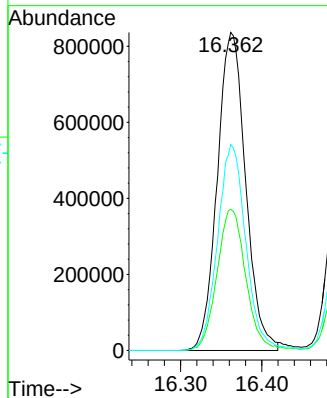
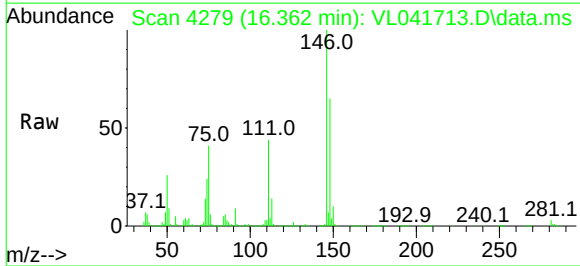
148 64.6 32.4 97.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/22/2024

Supervised By :Mahesh Dadoda 11/22/2024



#76

1,4-Dichlorobenzene

Concen: 10.386 ppbv

RT: 16.506 min Scan# 4324

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

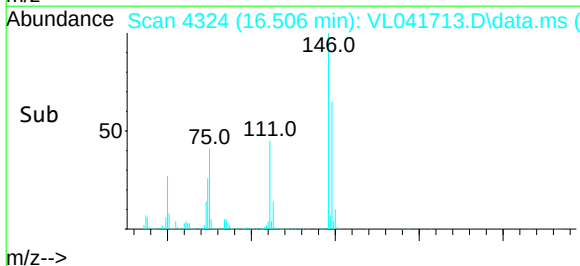
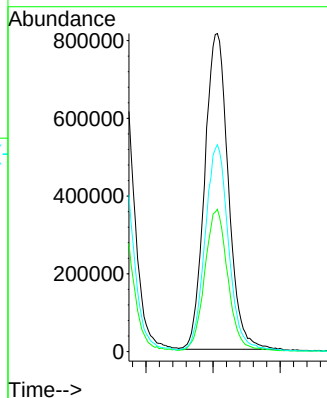
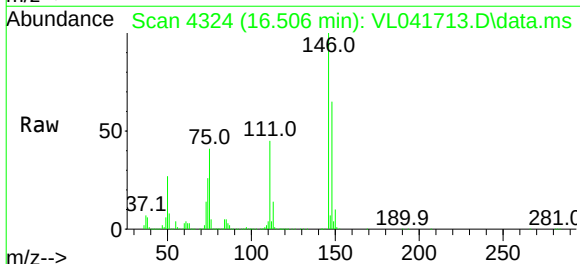
Tgt Ion:146 Resp: 1989769

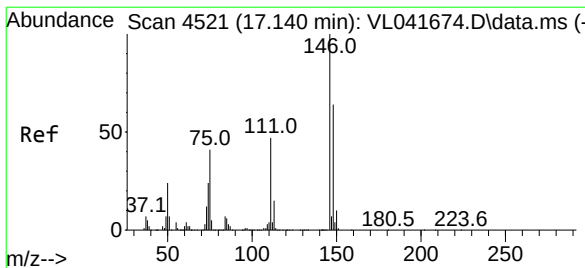
Ion Ratio Lower Upper

146 100

111 44.3 22.1 66.3

148 65.4 33.3 99.8





#77

1,2-Dichlorobenzene

Concen: 10.037 ppbv

RT: 17.175 min Scan# 45

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

VL1121ABS01

Tgt Ion:146 Resp: 1974338

Ion Ratio Lower Upper

146 100

111 47.5 23.4 70.3

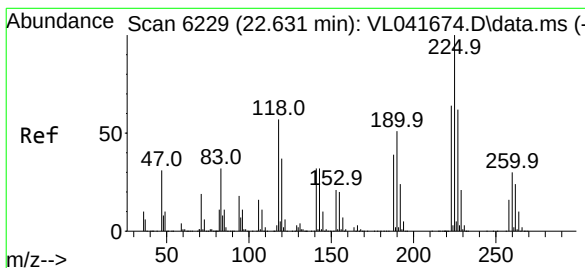
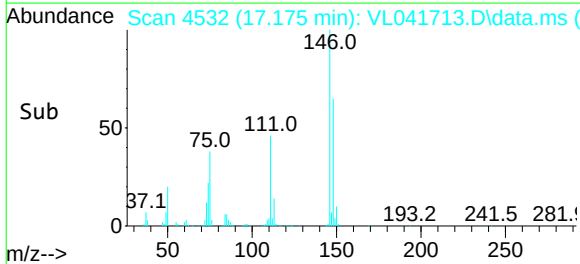
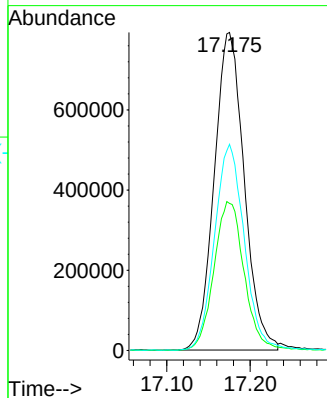
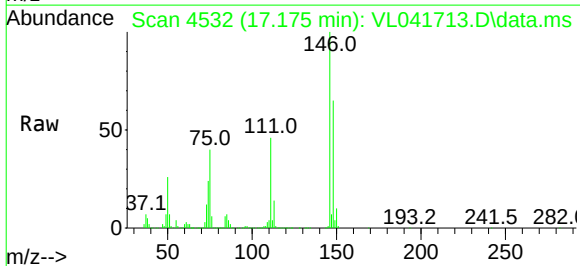
148 64.8 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/22/2024

Supervised By :Mahesh Dadoda 11/22/2024



#78

Hexachloro-1,3-Butadiene

Concen: 8.817 ppbv

RT: 22.670 min Scan# 6241

Delta R.T. 0.006 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

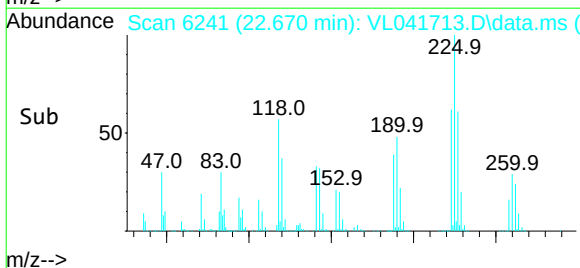
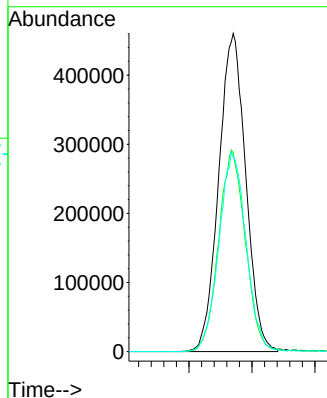
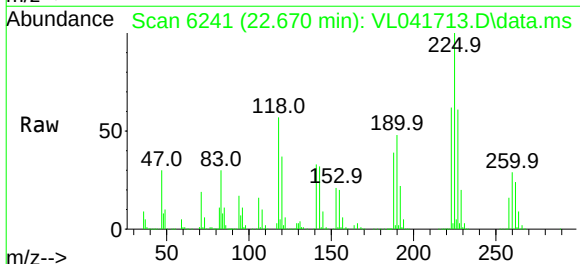
Tgt Ion:225 Resp: 1371815

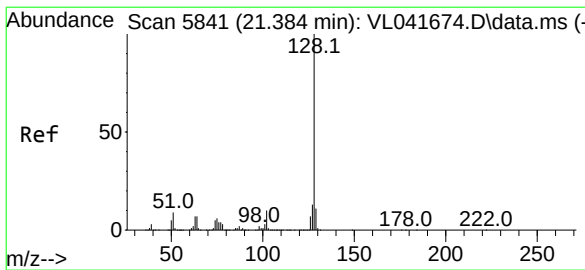
Ion Ratio Lower Upper

225 100

223 62.8 51.1 76.7

227 63.3 51.3 76.9





#79

Naphthalene

Concen: 13.302 ppbv

RT: 21.419 min Scan# 5841

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

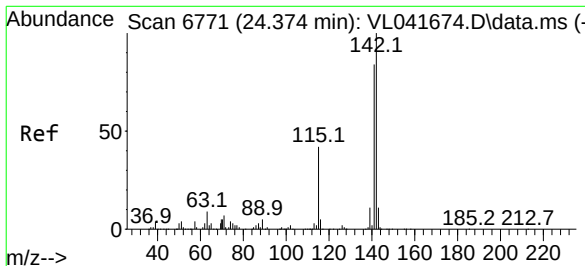
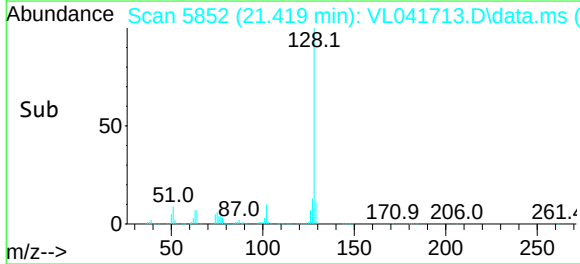
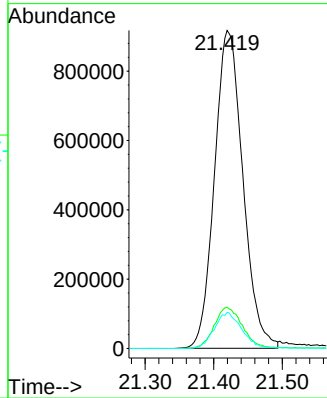
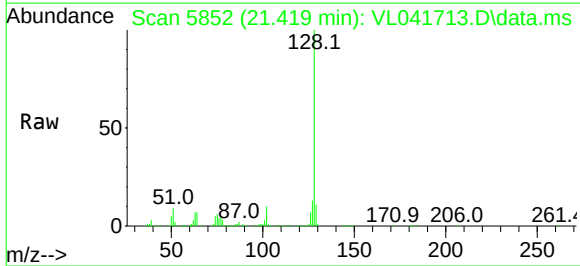
VL1121ABS01

Tgt Ion:128 Resp: 2632672

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.0  | 10.5  | 15.7  |
| 129 | 11.3  | 8.7   | 13.1  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/22/2024  
Supervised By :Mahesh Dadoda 11/22/2024



#80

Naphthalene,2-methyl-

Concen: 27.288 ppbv

RT: 24.403 min Scan# 6780

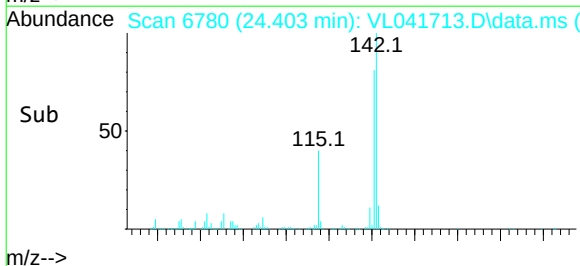
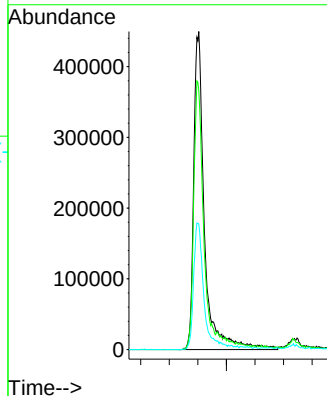
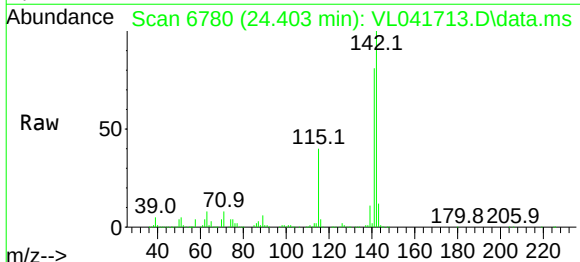
Delta R.T. 0.003 min

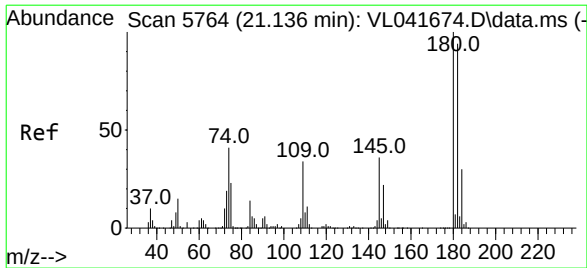
Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Tgt Ion:142 Resp: 1177283

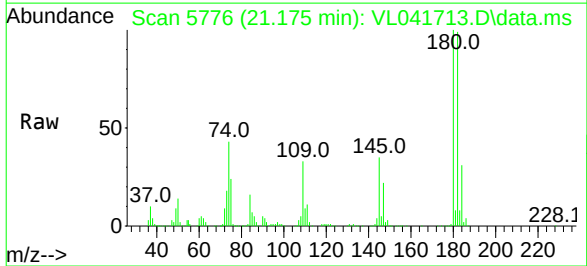
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 81.4  | 68.1  | 102.1 |
| 115 | 38.6  | 33.1  | 49.7  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.986 ppbv m  
 RT: 21.175 min Scan# 57  
 Delta R.T. 0.000 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

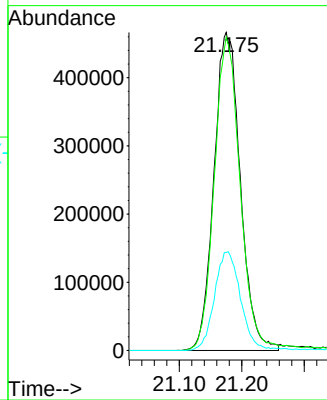
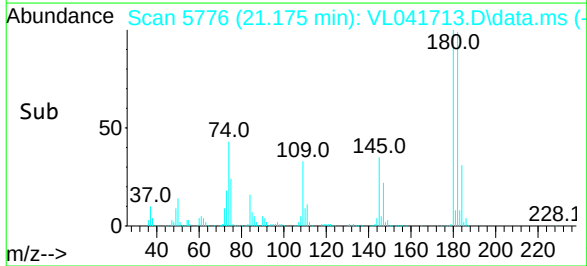
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1121ABS01



Tgt Ion:180 Resp: 1367312  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 78.2 117.2#  
 184 31.2 25.0 37.4

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/22/2024  
 Supervised By :Mahesh Dadoda 11/22/2024



## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | vl110724 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter                | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|-------------|------------|--------------------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| VSTDICCC010 | VL041674.D | Chlorobenzene-d5         | MMDadoda  | 11/9/2024 3:47:24 AM | SAM           | 11/9/2024 10:41:41 AM | Peak Integrated by Software |
| VSTDICCC010 | VL041674.D | Ethanol                  | MMDadoda  | 11/9/2024 3:47:24 AM | SAM           | 11/9/2024 10:41:41 AM | Peak Integrated by Software |
| VSTDICCC010 | VL041674.D | Hexachloro-1,3-Butadiene | MMDadoda  | 11/9/2024 3:47:24 AM | SAM           | 11/9/2024 10:41:41 AM | Peak Integrated by Software |
| VSTDICCC010 | VL041674.D | m/p-Xylene               | MMDadoda  | 11/9/2024 3:47:24 AM | SAM           | 11/9/2024 10:41:41 AM | Peak Integrated by Software |
| VSTDICCC002 | VL041675.D | 1,1,2-Trichloroethane    | MMDadoda  | 11/9/2024 3:47:25 AM | SAM           | 11/9/2024 10:41:47 AM | Peak Integrated by Software |
| VSTDICCC002 | VL041675.D | 1,4-Dioxane              | MMDadoda  | 11/9/2024 3:47:25 AM | SAM           | 11/9/2024 10:41:47 AM | Peak Integrated by Software |
| VSTDICCC002 | VL041675.D | Benzyl Chloride          | MMDadoda  | 11/9/2024 3:47:25 AM | SAM           | 11/9/2024 10:41:47 AM | Peak Integrated by Software |
| VSTDICCC002 | VL041675.D | Ethanol                  | MMDadoda  | 11/9/2024 3:47:25 AM | SAM           | 11/9/2024 10:41:47 AM | Peak Integrated by Software |
| VSTDICCC002 | VL041675.D | m/p-Xylene               | MMDadoda  | 11/9/2024 3:47:25 AM | SAM           | 11/9/2024 10:41:47 AM | Peak Integrated by Software |
| VSTDICCC002 | VL041675.D | Tetrachloroethene        | MMDadoda  | 11/9/2024 3:47:25 AM | SAM           | 11/9/2024 10:41:47 AM | Peak Integrated by Software |
| VSTDICCC001 | VL041676.D | 1,2,4-Trichlorobenzene   | MMDadoda  | 11/9/2024 3:47:27 AM | SAM           | 11/9/2024 10:42:37 AM | Peak Integrated by Software |
| VSTDICCC001 | VL041676.D | 1,3-Butadiene            | MMDadoda  | 11/9/2024 3:47:27 AM | SAM           | 11/9/2024 10:42:37 AM | Peak Integrated by Software |
| VSTDICCC001 | VL041676.D | 1,4-Dioxane              | MMDadoda  | 11/9/2024 3:47:27 AM | SAM           | 11/9/2024 10:42:37 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL110724 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID | File ID    | Parameter                | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|-----------|------------|--------------------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| VSTDIC001 | VL041676.D | Benzyl Chloride          | MMDadoda  | 11/9/2024 3:47:27 AM | SAM           | 11/9/2024 10:42:37 AM | Peak Integrated by Software |
| VSTDIC001 | VL041676.D | Bromoform                | MMDadoda  | 11/9/2024 3:47:27 AM | SAM           | 11/9/2024 10:42:37 AM | Peak Integrated by Software |
| VSTDIC001 | VL041676.D | Hexachloro-1,3-Butadiene | MMDadoda  | 11/9/2024 3:47:27 AM | SAM           | 11/9/2024 10:42:37 AM | Peak Integrated by Software |
| VSTDIC001 | VL041676.D | m/p-Xylene               | MMDadoda  | 11/9/2024 3:47:27 AM | SAM           | 11/9/2024 10:42:37 AM | Peak Integrated by Software |
| VSTDIC001 | VL041676.D | Naphthalene              | MMDadoda  | 11/9/2024 3:47:27 AM | SAM           | 11/9/2024 10:42:37 AM | Peak Integrated by Software |
| VSTDIC001 | VL041676.D | Naphthalene,2-methyl-    | MMDadoda  | 11/9/2024 3:47:27 AM | SAM           | 11/9/2024 10:42:37 AM | Peak Integrated by Software |
| VSTDIC001 | VL041676.D | t-1,3-Dichloropropene    | MMDadoda  | 11/9/2024 3:47:27 AM | SAM           | 11/9/2024 10:42:37 AM | Peak Integrated by Software |
| VSTDIC001 | VL041676.D | trans-1,2-Dichloroethene | MMDadoda  | 11/9/2024 3:47:27 AM | SAM           | 11/9/2024 10:42:37 AM | Peak Integrated by Software |
| VSTDIC001 | VL041676.D | Vinyl Acetate            | MMDadoda  | 11/9/2024 3:47:27 AM | SAM           | 11/9/2024 10:42:37 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | 1,1,2-Trichloroethane    | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | 1,2,4-Trichlorobenzene   | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | 1,2-Dibromoethane        | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | 1,3,5-Trimethylbenzene   | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | vl110724 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID | File ID    | Parameter               | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|-----------|------------|-------------------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| VSTDIC0.5 | VL041677.D | 1,3-Dichlorobenzene     | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | 1,4-Dichlorobenzene     | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | 1,4-Dioxane             | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | 2-Hexanone              | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | 4-Ethyltoluene          | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | 4-Methyl-2-Pentanone    | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | Benzyl Chloride         | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | Bromoform               | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | Carbon Tetrachloride    | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | Chlorobenzene           | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | cis-1,3-Dichloropropene | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | Cyclohexane             | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.5 | VL041677.D | Ethanol                 | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |



## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | vl110724 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID  | File ID    | Parameter                | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|------------|------------|--------------------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| VSTDICC0.5 | VL041677.D | Ethyl Benzene            | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL041677.D | Hexachloro-1,3-Butadiene | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL041677.D | Isopropyl Alcohol        | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL041677.D | m/p-Xylene               | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL041677.D | Methyl Methacrylate      | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL041677.D | n-Butylbenzene           | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL041677.D | n-propylbenzene          | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL041677.D | Naphthalene              | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL041677.D | Naphthalene,2-methyl-    | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL041677.D | Styrene                  | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL041677.D | t-1,3-Dichloropropene    | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL041677.D | Tetrachloroethene        | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL041677.D | Tetrahydrofuran          | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VI110724 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID  | File ID    | Parameter                 | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|------------|------------|---------------------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| VSTDIC0.5  | VL041677.D | Vinyl Acetate             | MMDadoda  | 11/9/2024 3:47:30 AM | SAM           | 11/9/2024 10:42:45 AM | Peak Integrated by Software |
| VSTDIC0.1  | VL041678.D | 1,1,1-Trichloroethane     | MMDadoda  | 11/9/2024 3:47:32 AM | SAM           | 11/9/2024 10:41:22 AM | Peak Integrated by Software |
| VSTDIC0.1  | VL041678.D | 1,1,2,2-Tetrachloroethane | MMDadoda  | 11/9/2024 3:47:32 AM | SAM           | 11/9/2024 10:41:22 AM | Peak Integrated by Software |
| VSTDIC0.1  | VL041678.D | 1,2-Dibromoethane         | MMDadoda  | 11/9/2024 3:47:32 AM | SAM           | 11/9/2024 10:41:22 AM | Peak Integrated by Software |
| VSTDIC0.1  | VL041678.D | Carbon Tetrachloride      | MMDadoda  | 11/9/2024 3:47:32 AM | SAM           | 11/9/2024 10:41:22 AM | Peak Integrated by Software |
| VSTDIC0.1  | VL041678.D | Naphthalene               | MMDadoda  | 11/9/2024 3:47:32 AM | SAM           | 11/9/2024 10:41:22 AM | Peak Integrated by Software |
| VSTDIC0.1  | VL041678.D | Tetrachloroethene         | MMDadoda  | 11/9/2024 3:47:32 AM | SAM           | 11/9/2024 10:41:22 AM | Peak Integrated by Software |
| VSTDIC0.1  | VL041678.D | Trichloroethene           | MMDadoda  | 11/9/2024 3:47:32 AM | SAM           | 11/9/2024 10:41:22 AM | Peak Integrated by Software |
| VSTDIC0.03 | VL041679.D | 1,1,1-Trichloroethane     | MMDadoda  | 11/9/2024 3:47:49 AM | SAM           | 11/9/2024 10:42:51 AM | Peak Integrated by Software |
| VSTDIC0.03 | VL041679.D | 1,1,2,2-Tetrachloroethane | MMDadoda  | 11/9/2024 3:47:49 AM | SAM           | 11/9/2024 10:42:51 AM | Peak Integrated by Software |
| VSTDIC0.03 | VL041679.D | Carbon Tetrachloride      | MMDadoda  | 11/9/2024 3:47:49 AM | SAM           | 11/9/2024 10:42:51 AM | Peak Integrated by Software |
| VSTDIC0.03 | VL041679.D | Tetrachloroethene         | MMDadoda  | 11/9/2024 3:47:49 AM | SAM           | 11/9/2024 10:42:51 AM | Peak Integrated by Software |
| VSTDIC0.03 | VL041679.D | Trichloroethene           | MMDadoda  | 11/9/2024 3:47:49 AM | SAM           | 11/9/2024 10:42:51 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | vl110724 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID  | File ID    | Parameter             | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|------------|------------|-----------------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| VSTDIC0.03 | VL041679.D | Vinyl Chloride        | MMDadoda  | 11/9/2024 3:47:49 AM | SAM           | 11/9/2024 10:42:51 AM | Peak Integrated by Software |
| VSTDIC015  | VL041680.D | Ethanol               | MMDadoda  | 11/9/2024 3:47:51 AM | SAM           | 11/9/2024 10:42:57 AM | Peak Integrated by Software |
| VSTDIC015  | VL041680.D | m/p-Xylene            | MMDadoda  | 11/9/2024 3:47:51 AM | SAM           | 11/9/2024 10:42:57 AM | Peak Integrated by Software |
| VSTDIC015  | VL041680.D | Naphthalene,2-methyl- | MMDadoda  | 11/9/2024 3:47:51 AM | SAM           | 11/9/2024 10:42:57 AM | Peak Integrated by Software |
| VSTDICV010 | VL041681.D | Chlorobenzene-d5      | MMDadoda  | 11/9/2024 3:47:53 AM | SAM           | 11/9/2024 10:43:26 AM | Peak Integrated by Software |
| VSTDICV010 | VL041681.D | Ethanol               | MMDadoda  | 11/9/2024 3:47:53 AM | SAM           | 11/9/2024 10:43:26 AM | Peak Integrated by Software |
| VSTDICV010 | VL041681.D | m/p-Xylene            | MMDadoda  | 11/9/2024 3:47:53 AM | SAM           | 11/9/2024 10:43:26 AM | Peak Integrated by Software |
| VSTDCCC010 | VL041695.D | Benzyl Chloride       | MMDadoda  | 11/9/2024 3:48:07 AM | SAM           | 11/9/2024 10:42:21 AM | Peak Integrated by Software |
| VSTDCCC010 | VL041695.D | Chlorobenzene-d5      | MMDadoda  | 11/9/2024 3:48:07 AM | SAM           | 11/9/2024 10:42:21 AM | Peak Integrated by Software |
| VSTDCCC010 | VL041695.D | Ethanol               | MMDadoda  | 11/9/2024 3:48:07 AM | SAM           | 11/9/2024 10:42:21 AM | Peak Integrated by Software |
| VSTDCCC010 | VL041695.D | m/p-Xylene            | MMDadoda  | 11/9/2024 3:48:07 AM | SAM           | 11/9/2024 10:42:21 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL112024 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter        | Review By | Review On                | Supervised By | Supervised On            | Reason                      |
|-------------|------------|------------------|-----------|--------------------------|---------------|--------------------------|-----------------------------|
| VSTDCCC010  | VL041697.D | Chlorobenzene-d5 | SAM       | 11/21/2024<br>3:24:19 PM | MMDadoda      | 11/21/2024<br>3:23:37 PM | Peak Integrated by Software |
| VSTDCCC010  | VL041697.D | Ethanol          | SAM       | 11/21/2024<br>3:24:19 PM | MMDadoda      | 11/21/2024<br>3:23:37 PM | Peak Integrated by Software |
| VSTDCCC010  | VL041697.D | m/p-Xylene       | SAM       | 11/21/2024<br>3:24:19 PM | MMDadoda      | 11/21/2024<br>3:23:37 PM | Peak Integrated by Software |
| VL1120ABS01 | VL041699.D | Benzyl Chloride  | SAM       | 11/21/2024<br>3:24:19 PM | MMDadoda      | 11/21/2024<br>3:23:38 PM | Peak Integrated by Software |
| VL1120ABS01 | VL041699.D | Chlorobenzene-d5 | SAM       | 11/21/2024<br>3:24:19 PM | MMDadoda      | 11/21/2024<br>3:23:38 PM | Peak Integrated by Software |
| VL1120ABS01 | VL041699.D | Ethanol          | SAM       | 11/21/2024<br>3:24:19 PM | MMDadoda      | 11/21/2024<br>3:23:38 PM | Peak Integrated by Software |
| VL1120ABS01 | VL041699.D | m/p-Xylene       | SAM       | 11/21/2024<br>3:24:19 PM | MMDadoda      | 11/21/2024<br>3:23:38 PM | Peak Integrated by Software |
| VSTDCCC010  | VL041709.D | Benzyl Chloride  | SAM       | 11/21/2024<br>3:24:27 PM | MMDadoda      | 11/21/2024<br>3:23:48 PM | Peak Integrated by Software |
| VSTDCCC010  | VL041709.D | Chlorobenzene-d5 | SAM       | 11/21/2024<br>3:24:27 PM | MMDadoda      | 11/21/2024<br>3:23:48 PM | Peak Integrated by Software |
| VSTDCCC010  | VL041709.D | Ethanol          | SAM       | 11/21/2024<br>3:24:27 PM | MMDadoda      | 11/21/2024<br>3:23:48 PM | Peak Integrated by Software |
| VSTDCCC010  | VL041709.D | m/p-Xylene       | SAM       | 11/21/2024<br>3:24:27 PM | MMDadoda      | 11/21/2024<br>3:23:48 PM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL112124 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter                | Review By | Review On                | Supervised By | Supervised On            | Reason                      |
|-------------|------------|--------------------------|-----------|--------------------------|---------------|--------------------------|-----------------------------|
| VSTDCCC010  | VL041711.D | Chlorobenzene-d5         | SAM       | 11/22/2024<br>8:05:03 AM | MMDadoda      | 11/22/2024<br>3:32:18 PM | Peak Integrated by Software |
| VSTDCCC010  | VL041711.D | Ethanol                  | SAM       | 11/22/2024<br>8:05:03 AM | MMDadoda      | 11/22/2024<br>3:32:18 PM | Peak Integrated by Software |
| VSTDCCC010  | VL041711.D | Hexachloro-1,3-Butadiene | SAM       | 11/22/2024<br>8:05:03 AM | MMDadoda      | 11/22/2024<br>3:32:18 PM | Peak Integrated by Software |
| VSTDCCC010  | VL041711.D | m/p-Xylene               | SAM       | 11/22/2024<br>8:05:03 AM | MMDadoda      | 11/22/2024<br>3:32:18 PM | Peak Integrated by Software |
| VL1121ABS01 | VL041713.D | 1,2,4-Trichlorobenzene   | SAM       | 11/22/2024<br>8:05:07 AM | MMDadoda      | 11/22/2024<br>3:32:23 PM | Peak Integrated by Software |
| VL1121ABS01 | VL041713.D | Chlorobenzene-d5         | SAM       | 11/22/2024<br>8:05:07 AM | MMDadoda      | 11/22/2024<br>3:32:23 PM | Peak Integrated by Software |
| VL1121ABS01 | VL041713.D | Ethanol                  | SAM       | 11/22/2024<br>8:05:07 AM | MMDadoda      | 11/22/2024<br>3:32:23 PM | Peak Integrated by Software |
| VL1121ABS01 | VL041713.D | m/p-Xylene               | SAM       | 11/22/2024<br>8:05:07 AM | MMDadoda      | 11/22/2024<br>3:32:23 PM | Peak Integrated by Software |
| P4633-01DL  | VL041714.D | Chloroethane             | SAM       | 12/2/2024 9:05:45<br>AM  | &nbsp;        | &nbsp;                   | Peak Integrated by Software |
| P4633-01DL2 | VL041715.D | 1,1-Dichloroethene       | SAM       | 12/2/2024 9:05:52<br>AM  | &nbsp;        | &nbsp;                   | Peak Integrated by Software |
| P4633-01DL2 | VL041715.D | 1,2,4-Trichlorobenzene   | SAM       | 12/2/2024 9:05:52<br>AM  | &nbsp;        | &nbsp;                   | Peak Integrated by Software |
| P4633-01DL2 | VL041715.D | Chloroethane             | SAM       | 12/2/2024 9:05:52<br>AM  | &nbsp;        | &nbsp;                   | Peak Integrated by Software |
| VSTDCCC010  | VL041716.D | Ethanol                  | SAM       | 11/22/2024<br>8:05:12 AM | MMDadoda      | 11/22/2024<br>3:32:25 PM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | vl112124 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID  | File ID    | Parameter  | Review By | Review On                | Supervised By | Supervised On            | Reason                      |
|------------|------------|------------|-----------|--------------------------|---------------|--------------------------|-----------------------------|
| VSTDCCC010 | VL041716.D | m/p-Xylene | SAM       | 11/22/2024<br>8:05:12 AM | MMDadoda      | 11/22/2024<br>3:32:25 PM | Peak Integrated by Software |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL110724**

|                          |                      |                   |                       |                      |               |
|--------------------------|----------------------|-------------------|-----------------------|----------------------|---------------|
| Review By                | Mahesh Dadoda        | Review On         | 11/9/2024 3:48:21 AM  |                      |               |
| Supervise By             | Semsettin Yesilyurt  | Supervise On      | 11/9/2024 10:50:42 AM |                      |               |
| SubDirectory             | VL110724             | HP Acquire Method | AIR-TO15              | HP Processing Method | VL110724AIR.M |
| STD. NAME                |                      | STD REF.#         |                       |                      |               |
| Tune/Reschk              | AP2549               |                   |                       |                      |               |
| Initial Calibration Stds | AP2552,AP2554,AP2555 |                   |                       |                      |               |
| CCC                      | AP2552               |                   |                       |                      |               |
| Internal Standard/PEM    | AP2549               |                   |                       |                      |               |
| ICV/I.BLK                | AP2553               |                   |                       |                      |               |
| Surrogate Standard       |                      |                   |                       |                      |               |
| MS/MSD Standard          |                      |                   |                       |                      |               |
| LCS Standard             |                      |                   |                       |                      |               |

| Sr# | SampleId           | Data File Name | Date-Time        | Operator | Status |
|-----|--------------------|----------------|------------------|----------|--------|
| 1   | BFB                | VL041672.D     | 7 Nov 2024 8:58  | SY/MD    | Ok     |
| 2   | VSTDICC0.5         | VL041673.D     | 7 Nov 2024 9:36  | SY/MD    | Not Ok |
| 3   | VSTDICCC010        | VL041674.D     | 7 Nov 2024 10:15 | SY/MD    | Ok,M   |
| 4   | VSTDICC002         | VL041675.D     | 7 Nov 2024 10:55 | SY/MD    | Ok,M   |
| 5   | VSTDICC001         | VL041676.D     | 7 Nov 2024 11:34 | SY/MD    | Ok,M   |
| 6   | VSTDICC0.5         | VL041677.D     | 7 Nov 2024 12:13 | SY/MD    | Ok,M   |
| 7   | VSTDICC0.1         | VL041678.D     | 7 Nov 2024 12:52 | SY/MD    | Ok,M   |
| 8   | VSTDICC0.03        | VL041679.D     | 7 Nov 2024 13:31 | SY/MD    | Ok,M   |
| 9   | VSTDICC015         | VL041680.D     | 7 Nov 2024 14:12 | SY/MD    | Ok,M   |
| 10  | VSTDICV010         | VL041681.D     | 7 Nov 2024 14:51 | SY/MD    | Ok,M   |
| 11  | VL1107ABL01        | VL041682.D     | 7 Nov 2024 17:44 | SY/MD    | Ok     |
| 12  | VL1107ABS01        | VL041683.D     | 7 Nov 2024 18:24 | SY/MD    | Ok,M   |
| 13  | VIBLK              | VL041684.D     | 7 Nov 2024 19:04 | SY/MD    | Ok     |
| 14  | P4696-02           | VL041685.D     | 7 Nov 2024 19:44 | SY/MD    | Ok,M   |
| 15  | P4696-02DL         | VL041686.D     | 7 Nov 2024 20:24 | SY/MD    | Not Ok |
| 16  | VIBLK              | VL041687.D     | 7 Nov 2024 21:03 | SY/MD    | Ok     |
| 17  | P4696-01           | VL041688.D     | 7 Nov 2024 21:44 | SY/MD    | Ok,M   |
| 18  | P4696-01DUP        | VL041689.D     | 7 Nov 2024 22:24 | SY/MD    | Ok,M   |
| 19  | P4696-01DL         | VL041690.D     | 7 Nov 2024 23:03 | SY/MD    | Not Ok |
| 20  | QC102124 CAN 10311 | VL041691.D     | 7 Nov 2024 23:42 | SY/MD    | Ok     |
| 21  | CAN 10268          | VL041692.D     | 8 Nov 2024 00:21 | SY/MD    | Ok     |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL110724**

| Review By                | Mahesh Dadoda        | Review On         | 11/9/2024 3:48:21 AM  |                      |               |
|--------------------------|----------------------|-------------------|-----------------------|----------------------|---------------|
| Supervise By             | Semsettin Yesilyurt  | Supervise On      | 11/9/2024 10:50:42 AM |                      |               |
| SubDirectory             | VL110724             | HP Acquire Method | AIR-TO15              | HP Processing Method | VL110724AIR.M |
| STD. NAME                | STD REF.#            |                   |                       |                      |               |
| Tune/Reschk              | AP2549               |                   |                       |                      |               |
| Initial Calibration Stds | AP2552,AP2554,AP2555 |                   |                       |                      |               |
| CCC                      | AP2552               |                   |                       |                      |               |
| Internal Standard/PEM    | AP2549               |                   |                       |                      |               |
| ICV/I.BLK                | AP2553               |                   |                       |                      |               |
| Surrogate Standard       |                      |                   |                       |                      |               |
| MS/MSD Standard          |                      |                   |                       |                      |               |
| LCS Standard             |                      |                   |                       |                      |               |

|    |            |            |                 |       |      |
|----|------------|------------|-----------------|-------|------|
| 22 | CAN 10297  | VL041693.D | 8 Nov 2024 1:00 | SY/MD | Ok   |
| 23 | CAN 10154  | VL041694.D | 8 Nov 2024 1:39 | SY/MD | Ok   |
| 24 | VSTDCCC010 | VL041695.D | 8 Nov 2024 2:18 | SY/MD | Ok,M |

M : Manual Integration



Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL112024**

|                          |                      |                   |                       |                      |               |
|--------------------------|----------------------|-------------------|-----------------------|----------------------|---------------|
| Review By                | Mahesh Dadoda        | Review On         | 11/21/2024 3:23:36 PM |                      |               |
| Supervise By             | Semsettin Yesilyurt  | Supervise On      | 11/21/2024 3:24:29 PM |                      |               |
| SubDirectory             | VL112024             | HP Acquire Method | AIR-TO15              | HP Processing Method | VL110724AIR.M |
| STD. NAME                |                      | STD REF.#         |                       |                      |               |
| Tune/Reschk              | AP2550               |                   |                       |                      |               |
| Initial Calibration Stds | AP2552,AP2554,AP2555 |                   |                       |                      |               |
| CCC                      | AP2552               |                   |                       |                      |               |
| Internal Standard/PEM    | AP2550               |                   |                       |                      |               |
| ICV/I.BLK                | AP2553               |                   |                       |                      |               |
| Surrogate Standard       |                      |                   |                       |                      |               |
| MS/MSD Standard          |                      |                   |                       |                      |               |
| LCS Standard             |                      |                   |                       |                      |               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status   |
|-----|-------------|----------------|-------------------|----------|----------|
| 1   | BFB         | VL041696.D     | 20 Nov 2024 7:31  | SY/MD    | Ok       |
| 2   | VSTDCCC010  | VL041697.D     | 20 Nov 2024 8:09  | SY/MD    | Ok,M     |
| 3   | VL1120ABL01 | VL041698.D     | 20 Nov 2024 12:36 | SY/MD    | Ok       |
| 4   | VL1120ABS01 | VL041699.D     | 20 Nov 2024 13:15 | SY/MD    | Ok,M     |
| 5   | VIBLK       | VL041700.D     | 20 Nov 2024 13:53 | SY/MD    | Ok       |
| 6   | P4633-01    | VL041701.D     | 20 Nov 2024 15:54 | SY/MD    | Dilution |
| 7   | P4633-01    | VL041702.D     | 20 Nov 2024 16:34 | SY/MD    | Not Ok   |
| 8   | P4633-01DL  | VL041703.D     | 20 Nov 2024 17:13 | SY/MD    | Not Ok   |
| 9   | VIBLK       | VL041704.D     | 20 Nov 2024 17:53 | SY/MD    | Ok       |
| 10  | P4911-02    | VL041705.D     | 20 Nov 2024 18:35 | SY/MD    | Ok,M     |
| 11  | P4911-02DUP | VL041706.D     | 20 Nov 2024 19:15 | SY/MD    | Ok,M     |
| 12  | P4911-01    | VL041707.D     | 20 Nov 2024 19:54 | SY/MD    | Ok,M     |
| 13  | P4911-01DL  | VL041708.D     | 20 Nov 2024 20:33 | SY/MD    | Not Ok   |
| 14  | VSTDCCC010  | VL041709.D     | 21 Nov 2024 7:29  | SY/MD    | Ok,M     |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL112124**

|                          |                      |                      |                       |
|--------------------------|----------------------|----------------------|-----------------------|
| Review By                | Mahesh Dadoda        | Review On            | 11/22/2024 3:32:35 PM |
| Supervise By             | Semsettin Yesilyurt  | Supervise On         | 11/22/2024 3:35:01 PM |
| SubDirectory             | VL112124             | HP Acquire Method    | AIR-TO15              |
|                          |                      | HP Processing Method | VL110724AIR.M         |
| <b>STD. NAME</b>         | <b>STD REF.#</b>     |                      |                       |
| Tune/Reschk              | AP2550               |                      |                       |
| Initial Calibration Stds | AP2552,AP2554,AP2555 |                      |                       |
| CCC                      | AP2552               |                      |                       |
| Internal Standard/PEM    | AP2550               |                      |                       |
| ICV/I.BLK                | AP2553               |                      |                       |
| Surrogate Standard       |                      |                      |                       |
| MS/MSD Standard          |                      |                      |                       |
| LCS Standard             |                      |                      |                       |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status   |
|-----|-------------|----------------|-------------------|----------|----------|
| 1   | BFB         | VL041710.D     | 21 Nov 2024 8:12  | SY/MD    | Ok       |
| 2   | VSTDCCC010  | VL041711.D     | 21 Nov 2024 8:50  | SY/MD    | Ok,M     |
| 3   | VL1121ABL01 | VL041712.D     | 21 Nov 2024 9:38  | SY/MD    | Ok       |
| 4   | VL1121ABS01 | VL041713.D     | 21 Nov 2024 10:16 | SY/MD    | Ok,M     |
| 5   | P4633-01DL  | VL041714.D     | 21 Nov 2024 14:12 | SY/MD    | Dilution |
| 6   | P4633-01DL2 | VL041715.D     | 21 Nov 2024 15:06 | SY/MD    | Ok,NS    |
| 7   | VSTDCCC010  | VL041716.D     | 21 Nov 2024 15:46 | SY/MD    | Ok,M     |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL110724**

|                          |                     |                      |                       |                      |               |
|--------------------------|---------------------|----------------------|-----------------------|----------------------|---------------|
| Review By                | Mahesh Dadoda       | Review On            | 11/9/2024 3:48:21 AM  |                      |               |
| Supervise By             | Semsettin Yesilyurt | Supervise On         | 11/9/2024 10:50:42 AM |                      |               |
| SubDirectory             | VL110724            | HP Acquire Method    | AIR-TO15              | HP Processing Method | VL110724AIR.M |
| STD. NAME                |                     | STD REF.#            |                       |                      |               |
| Tune/Reschk              |                     | AP2549               |                       |                      |               |
| Initial Calibration Stds |                     | AP2552,AP2554,AP2555 |                       |                      |               |
| CCC                      |                     | AP2552               |                       |                      |               |
| Internal Standard/PEM    |                     | AP2549               |                       |                      |               |
| ICV/I.BLK                |                     | AP2553               |                       |                      |               |
| Surrogate Standard       |                     |                      |                       |                      |               |
| MS/MSD Standard          |                     |                      |                       |                      |               |
| LCS Standard             |                     |                      |                       |                      |               |

| Sr# | Sampleld    | ClientID    | Data File Name | Date-Time        | Comment      | Operator | Status |
|-----|-------------|-------------|----------------|------------------|--------------|----------|--------|
| 1   | BFB         | BFB         | VL041672.D     | 7 Nov 2024 8:58  |              | SY/MD    | Ok     |
| 2   | VSTDIC0.5   | VSTDIC0.5   | VL041673.D     | 7 Nov 2024 9:36  | Spiked Low   | SY/MD    | Not Ok |
| 3   | VSTDICCC010 | VSTDICCC010 | VL041674.D     | 7 Nov 2024 10:15 |              | SY/MD    | Ok,M   |
| 4   | VSTDIC002   | VSTDIC002   | VL041675.D     | 7 Nov 2024 10:55 |              | SY/MD    | Ok,M   |
| 5   | VSTDIC001   | VSTDIC001   | VL041676.D     | 7 Nov 2024 11:34 |              | SY/MD    | Ok,M   |
| 6   | VSTDIC0.5   | VSTDIC0.5   | VL041677.D     | 7 Nov 2024 12:13 |              | SY/MD    | Ok,M   |
| 7   | VSTDIC0.1   | VSTDIC0.1   | VL041678.D     | 7 Nov 2024 12:52 |              | SY/MD    | Ok,M   |
| 8   | VSTDIC0.03  | VSTDIC0.03  | VL041679.D     | 7 Nov 2024 13:31 |              | SY/MD    | Ok,M   |
| 9   | VSTDIC015   | VSTDIC015   | VL041680.D     | 7 Nov 2024 14:12 |              | SY/MD    | Ok,M   |
| 10  | VSTDICV010  | ICVVL110724 | VL041681.D     | 7 Nov 2024 14:51 |              | SY/MD    | Ok,M   |
| 11  | VL1107ABL01 | VL1107ABL01 | VL041682.D     | 7 Nov 2024 17:44 |              | SY/MD    | Ok     |
| 12  | VL1107ABS01 | VL1107ABS01 | VL041683.D     | 7 Nov 2024 18:24 |              | SY/MD    | Ok,M   |
| 13  | VIBLK       | VIBLK       | VL041684.D     | 7 Nov 2024 19:04 |              | SY/MD    | Ok     |
| 14  | P4696-02    | SV1         | VL041685.D     | 7 Nov 2024 19:44 |              | SY/MD    | Ok,M   |
| 15  | P4696-02DL  | SV1DL       | VL041686.D     | 7 Nov 2024 20:24 | Not Required | SY/MD    | Not Ok |
| 16  | VIBLK       | VIBLK       | VL041687.D     | 7 Nov 2024 21:03 |              | SY/MD    | Ok     |
| 17  | P4696-01    | IA1         | VL041688.D     | 7 Nov 2024 21:44 |              | SY/MD    | Ok,M   |
| 18  | P4696-01DUP | IA1DUP      | VL041689.D     | 7 Nov 2024 22:24 | DUP          | SY/MD    | Ok,M   |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL110724**

| Review By                | Mahesh Dadoda        | Review On         | 11/9/2024 3:48:21 AM  |                      |               |
|--------------------------|----------------------|-------------------|-----------------------|----------------------|---------------|
| Supervise By             | Semsettin Yesilyurt  | Supervise On      | 11/9/2024 10:50:42 AM |                      |               |
| SubDirectory             | VL110724             | HP Acquire Method | AIR-TO15              | HP Processing Method | VL110724AIR.M |
| STD. NAME                | STD REF.#            |                   |                       |                      |               |
| Tune/Reschk              | AP2549               |                   |                       |                      |               |
| Initial Calibration Stds | AP2552,AP2554,AP2555 |                   |                       |                      |               |
| CCC                      | AP2552               |                   |                       |                      |               |
| Internal Standard/PEM    | AP2549               |                   |                       |                      |               |
| ICV/I.BLK                | AP2553               |                   |                       |                      |               |
| Surrogate Standard       |                      |                   |                       |                      |               |
| MS/MSD Standard          |                      |                   |                       |                      |               |
| LCS Standard             |                      |                   |                       |                      |               |

|    |                    |                    |            |                  |              |       |        |
|----|--------------------|--------------------|------------|------------------|--------------|-------|--------|
| 19 | P4696-01DL         | IA1DL              | VL041690.D | 7 Nov 2024 23:03 | Not Required | SY/MD | Not Ok |
| 20 | QC102124 CAN 10311 | QC102124 CAN 10311 | VL041691.D | 7 Nov 2024 23:42 |              | SY/MD | Ok     |
| 21 | CAN 10268          | CAN 10268          | VL041692.D | 8 Nov 2024 00:21 |              | SY/MD | Ok     |
| 22 | CAN 10297          | CAN 10297          | VL041693.D | 8 Nov 2024 1:00  |              | SY/MD | Ok     |
| 23 | CAN 10154          | CAN 10154          | VL041694.D | 8 Nov 2024 1:39  |              | SY/MD | Ok     |
| 24 | VSTDCCC010         | VSTDCCC010EC       | VL041695.D | 8 Nov 2024 2:18  |              | SY/MD | Ok,M   |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL112024**

|                          |                     |                      |                       |                      |               |
|--------------------------|---------------------|----------------------|-----------------------|----------------------|---------------|
| Review By                | Mahesh Dadoda       | Review On            | 11/21/2024 3:23:36 PM |                      |               |
| Supervise By             | Semsettin Yesilyurt | Supervise On         | 11/21/2024 3:24:29 PM |                      |               |
| SubDirectory             | VL112024            | HP Acquire Method    | AIR-TO15              | HP Processing Method | VL110724AIR.M |
| STD. NAME                |                     | STD REF.#            |                       |                      |               |
| Tune/Reschk              |                     | AP2550               |                       |                      |               |
| Initial Calibration Stds |                     | AP2552,AP2554,AP2555 |                       |                      |               |
| CCC                      |                     | AP2552               |                       |                      |               |
| Internal Standard/PEM    |                     | AP2550               |                       |                      |               |
| ICV/I.BLK                |                     | AP2553               |                       |                      |               |
| Surrogate Standard       |                     |                      |                       |                      |               |
| MS/MSD Standard          |                     |                      |                       |                      |               |
| LCS Standard             |                     |                      |                       |                      |               |

| Sr# | SampleID    | ClientID     | Data File Name | Date-Time         | Comment                                | Operator | Status   |
|-----|-------------|--------------|----------------|-------------------|----------------------------------------|----------|----------|
| 1   | BFB         | BFB          | VL041696.D     | 20 Nov 2024 7:31  |                                        | SY/MD    | Ok       |
| 2   | VSTDCCC010  | VSTDCCC010   | VL041697.D     | 20 Nov 2024 8:09  |                                        | SY/MD    | Ok,M     |
| 3   | VL1120ABL01 | VL1120ABL01  | VL041698.D     | 20 Nov 2024 12:36 |                                        | SY/MD    | Ok       |
| 4   | VL1120ABS01 | VL1120ABS01  | VL041699.D     | 20 Nov 2024 13:15 |                                        | SY/MD    | Ok,M     |
| 5   | VIBLK       | VIBLK        | VL041700.D     | 20 Nov 2024 13:53 |                                        | SY/MD    | Ok       |
| 6   | P4633-01    | E070-1100    | VL041701.D     | 20 Nov 2024 15:54 | Need 2X                                | SY/MD    | Dilution |
| 7   | P4633-01    | E070-1100    | VL041702.D     | 20 Nov 2024 16:34 | Need further dilution, rerun not match | SY/MD    | Not Ok   |
| 8   | P4633-01DL  | E070-1100DL  | VL041703.D     | 20 Nov 2024 17:13 | rerun not match                        | SY/MD    | Not Ok   |
| 9   | VIBLK       | VIBLK        | VL041704.D     | 20 Nov 2024 17:53 |                                        | SY/MD    | Ok       |
| 10  | P4911-02    | IA1          | VL041705.D     | 20 Nov 2024 18:35 |                                        | SY/MD    | Ok,M     |
| 11  | P4911-02DUP | IA1DUP       | VL041706.D     | 20 Nov 2024 19:15 | DUP                                    | SY/MD    | Ok,M     |
| 12  | P4911-01    | SV1          | VL041707.D     | 20 Nov 2024 19:54 |                                        | SY/MD    | Ok,M     |
| 13  | P4911-01DL  | SV1DL        | VL041708.D     | 20 Nov 2024 20:33 | not required                           | SY/MD    | Not Ok   |
| 14  | VSTDCCC010  | VSTDCCC010EC | VL041709.D     | 21 Nov 2024 7:29  |                                        | SY/MD    | Ok,M     |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL112124**

|                          |                     |                      |                       |                      |               |
|--------------------------|---------------------|----------------------|-----------------------|----------------------|---------------|
| Review By                | Mahesh Dadoda       | Review On            | 11/22/2024 3:32:35 PM |                      |               |
| Supervise By             | Semsettin Yesilyurt | Supervise On         | 11/22/2024 3:35:01 PM |                      |               |
| SubDirectory             | VL112124            | HP Acquire Method    | AIR-TO15              | HP Processing Method | VL110724AIR.M |
| STD. NAME                |                     | STD REF.#            |                       |                      |               |
| Tune/Reschk              |                     | AP2550               |                       |                      |               |
| Initial Calibration Stds |                     | AP2552,AP2554,AP2555 |                       |                      |               |
| CCC                      |                     | AP2552               |                       |                      |               |
| Internal Standard/PEM    |                     | AP2550               |                       |                      |               |
| ICV/I.BLK                |                     | AP2553               |                       |                      |               |
| Surrogate Standard       |                     |                      |                       |                      |               |
| MS/MSD Standard          |                     |                      |                       |                      |               |
| LCS Standard             |                     |                      |                       |                      |               |

| Sr# | SampleID    | ClientID     | Data File Name | Date-Time         | Comment | Operator | Status   |
|-----|-------------|--------------|----------------|-------------------|---------|----------|----------|
| 1   | BFB         | BFB          | VL041710.D     | 21 Nov 2024 8:12  |         | SY/MD    | Ok       |
| 2   | VSTDCCC010  | VSTDCCC010   | VL041711.D     | 21 Nov 2024 8:50  |         | SY/MD    | Ok,M     |
| 3   | VL1121ABL01 | VL1121ABL01  | VL041712.D     | 21 Nov 2024 9:38  |         | SY/MD    | Ok       |
| 4   | VL1121ABS01 | VL1121ABS01  | VL041713.D     | 21 Nov 2024 10:16 |         | SY/MD    | Ok,M     |
| 5   | P4633-01DL  | E070-1100DL  | VL041714.D     | 21 Nov 2024 14:12 | Need 4X | SY/MD    | Dilution |
| 6   | P4633-01DL2 | E070-1100DL2 | VL041715.D     | 21 Nov 2024 15:06 |         | SY/MD    | Ok,NS    |
| 7   | VSTDCCC010  | VSTDCCC010EC | VL041716.D     | 21 Nov 2024 15:46 |         | SY/MD    | Ok,M     |

M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041674.D  
 Acq On : 7 Nov 2024 10:15  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Nov 08 00:09:03 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.188  | 49   | 1170802  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.651  | 114  | 3260349  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.465 | 117  | 3837595  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 13.773 | 95    | 2380541  | 8.388    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 83.900% |

|                               |       |     |         |        |        |     |
|-------------------------------|-------|-----|---------|--------|--------|-----|
| Target Compounds              |       |     |         |        | Qvalue |     |
| 2) Dichlorodifluoromethane    | 2.726 | 85  | 2208753 | 10.438 | ppbv   | 100 |
| 3) Chlorodifluoromethane      | 2.671 | 51  | 1393427 | 9.135  | ppbv   | 100 |
| 4) Chloromethane              | 2.809 | 50  | 760160  | 9.408  | ppbv   | 100 |
| 5) Vinyl Chloride             | 2.915 | 62  | 732442  | 10.005 | ppbv   | 100 |
| 6) Bromomethane               | 3.115 | 94  | 371242  | 9.628  | ppbv   | 100 |
| 7) Chloroethane               | 3.192 | 64  | 260602  | 9.824  | ppbv   | 100 |
| 8) Dichlorotetrafluoroethane  | 2.851 | 85  | 1728631 | 9.151  | ppbv   | 100 |
| 9) Propene                    | 2.690 | 41  | 619994  | 9.327  | ppbv   | 100 |
| 10) Heptane                   | 7.577 | 43  | 1534950 | 10.305 | ppbv   | 100 |
| 11) Trichlorofluoromethane    | 3.555 | 101 | 1732857 | 9.401  | ppbv   | 100 |
| 12) 1,1,2-Trichlorotrifluo... | 4.060 | 101 | 1257722 | 9.388  | ppbv   | 100 |
| 13) Ethanol                   | 3.246 | 45  | 28737   | 6.950  | ppbv   | 90  |
| 14) Bromoethene               | 3.362 | 108 | 504428  | 9.366  | ppbv   | 100 |
| 15) Acetone                   | 3.462 | 43  | 1285781 | 8.923  | ppbv   | 100 |
| 16) 1,3-Butadiene             | 2.980 | 39  | 734062  | 10.160 | ppbv   | 100 |
| 17) tert-Butyl alcohol        | 3.873 | 59  | 1215299 | 9.611  | ppbv   | 100 |
| 18) 1,1-Dichloroethene        | 3.873 | 96  | 557278  | 9.484  | ppbv   | 100 |
| 19) Isopropyl Alcohol         | 3.571 | 45  | 646252  | 9.266  | ppbv   | 100 |
| 20) Methylene Chloride        | 3.928 | 84  | 468549  | 8.837  | ppbv   | 100 |
| 21) Allyl Chloride            | 3.992 | 41  | 888517  | 9.979  | ppbv   | 100 |
| 22) trans-1,2-Dichloroethene  | 4.442 | 96  | 566347  | 9.660  | ppbv   | 100 |
| 23) Vinyl Acetate             | 4.623 | 43  | 602236  | 8.886  | ppbv   | 100 |
| 24) 1,1-Dichloroethane        | 4.558 | 63  | 1223224 | 9.380  | ppbv   | 100 |
| 25) Ethyl Acetate             | 5.201 | 43  | 2883606 | 9.668  | ppbv   | 100 |
| 26) Hexane                    | 5.208 | 57  | 1130877 | 9.869  | ppbv   | 100 |
| 27) Carbon Disulfide          | 4.118 | 76  | 1374259 | 10.675 | ppbv   | 100 |
| 28) Methyl tert-Butyl Ether   | 4.581 | 73  | 670928  | 9.092  | ppbv   | 100 |
| 29) Chloroform                | 5.269 | 83  | 1779347 | 9.407  | ppbv   | 100 |
| 30) Cyclohexane               | 6.597 | 84  | 965390  | 10.487 | ppbv   | 100 |
| 31) cis-1,2-Dichloroethene    | 5.076 | 61  | 1095423 | 9.937  | ppbv   | 100 |
| 32) 1,1,1-Trichloroethane     | 5.999 | 97  | 1742198 | 10.047 | ppbv   | 100 |
| 34) 2-Butanone                | 4.780 | 43  | 1559421 | 9.606  | ppbv   | 100 |
| 35) Carbon Tetrachloride      | 6.491 | 117 | 1838964 | 10.670 | ppbv   | 100 |
| 36) Benzene                   | 6.365 | 78  | 2404772 | 9.955  | ppbv   | 100 |
| 37) 1,2-Dichloroethane        | 5.803 | 62  | 1331275 | 9.768  | ppbv   | 100 |
| 38) Trichloroethene           | 7.288 | 130 | 986911  | 10.594 | ppbv   | 100 |
| 39) 1,2-Dichloropropane       | 7.073 | 63  | 927055  | 9.711  | ppbv   | 100 |
| 40) 1,4-Dioxane               | 7.282 | 88  | 361524  | 10.691 | ppbv   | 100 |
| 41) Tetrahydrofuran           | 5.552 | 42  | 961227  | 10.379 | ppbv   | 100 |
| 42) Bromodichloromethane      | 7.246 | 83  | 1922752 | 10.153 | ppbv   | 100 |
| 43) Methyl Methacrylate       | 7.471 | 69  | 939057  | 11.071 | ppbv   | 100 |
| 44) 2,2,4-Trimethylpentane    | 7.323 | 57  | 4079001 | 9.968  | ppbv   | 100 |
| 45) t-1,3-Dichloropropene     | 8.706 | 75  | 920537  | 12.141 | ppbv   | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041674.D  
 Acq On : 7 Nov 2024 10:15  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Nov 08 00:09:03 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.140  | 75   | 1257121  | 11.408 | ppbv   | 100      |
| 47) 1,1,2-Trichloroethane     | 8.896  | 97   | 1003150  | 9.746  | ppbv   | 100      |
| 48) Dibromochloromethane      | 9.709  | 129  | 1679053  | 10.690 | ppbv   | 100      |
| 49) Bromoform                 | 12.404 | 173  | 1497222  | 11.174 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.179  | 43   | 2628657  | 10.544 | ppbv   | 100      |
| 51) 2-Hexanone                | 9.548  | 43   | 2043690  | 11.281 | ppbv   | 100      |
| 52) Tetrachloroethene         | 10.616 | 164  | 899580   | 10.893 | ppbv   | 100      |
| 53) Toluene                   | 9.217  | 91   | 2787590  | 10.973 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.008 | 107  | 1353490  | 11.262 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 11.507 | 131  | 1266326  | 7.924  | ppbv   | 100      |
| 57) Chlorobenzene             | 11.526 | 112  | 2237328  | 7.821  | ppbv   | 100      |
| 58) Ethyl Benzene             | 12.085 | 91   | 3795372  | 8.928  | ppbv   | 100      |
| 59) m/p-Xylene                | 12.368 | 91   | 4050379  | 10.651 | ppbv # | 58       |
| 60) o-Xylene                  | 13.056 | 91   | 3148609  | 8.672  | ppbv   | 100      |
| 61) Styrene                   | 12.896 | 104  | 1515741  | 10.115 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.027 | 105  | 4647017  | 8.291  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.043 | 83   | 2194609  | 8.302  | ppbv   | 100      |
| 64) n-propylbenzene           | 14.912 | 120  | 1256955  | 8.577  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 16.088 | 119  | 4162243  | 8.263  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.326 | 91   | 359794   | 9.917  | ppbv   | 100      |
| 67) sec-Butylbenzene          | 16.635 | 105  | 5857608  | 8.251  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 16.992 | 119  | 4920309  | 8.569  | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.882 | 91   | 5021145  | 8.531  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 14.796 | 91   | 3508288  | 8.656  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.191 | 105  | 3763123  | 8.925  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 15.349 | 105  | 3217635  | 8.703  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.104 | 105  | 3563067  | 8.285  | ppbv   | 100      |
| 75) 1,3-Dichlorobenzene       | 16.326 | 146  | 2192903  | 8.255  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 16.471 | 146  | 2144446  | 8.216  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.140 | 146  | 2138612  | 8.107  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 22.631 | 225  | 1409325  | 6.753  | ppbv   | 100      |
| 79) Naphthalene               | 21.384 | 128  | 2767333  | 10.463 | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 24.374 | 142  | 466005   | 9.497  | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 21.136 | 180  | 1415249  | 8.603  | ppbv   | 100      |

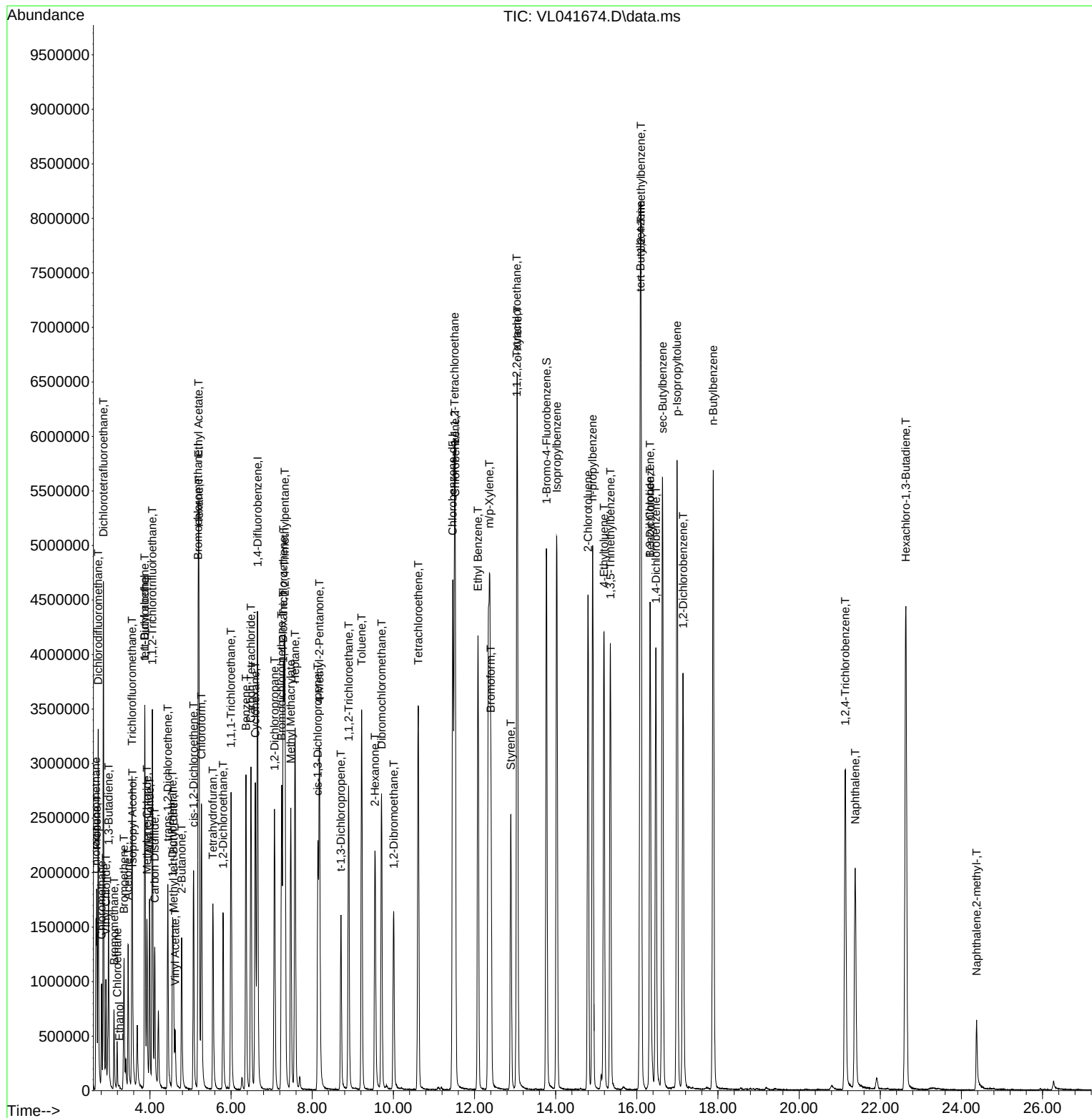
(#) = qualifier out of range (m) = manual integration (+) = signals summed

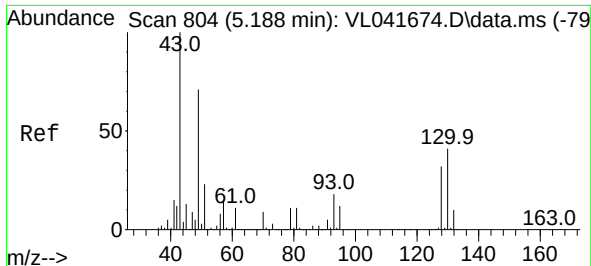


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
Data File : VL041674.D  
Acq On : 7 Nov 2024 10:15  
Operator : SY/MD  
Sample : VSTDICCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICCC010

Quant Time: Nov 08 00:09:03 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

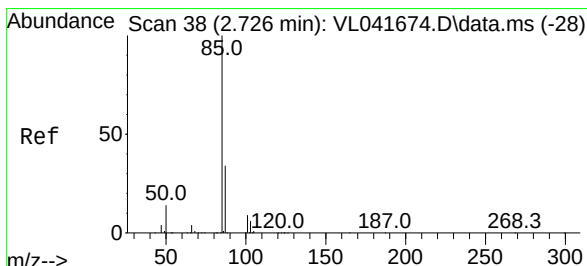
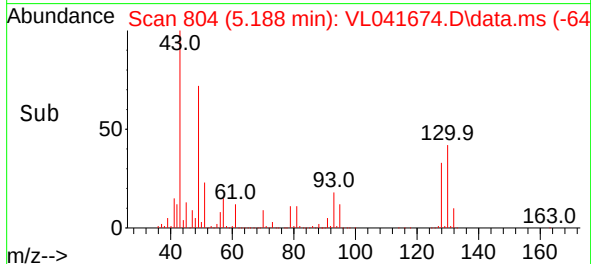
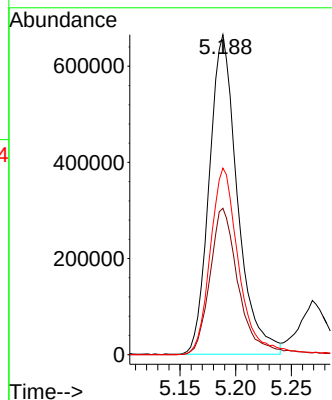
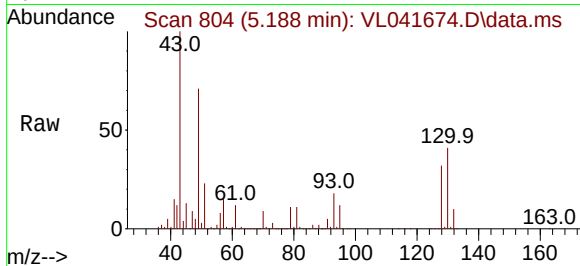




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.188 min Scan# 804  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

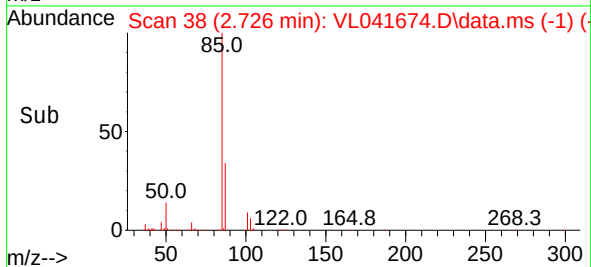
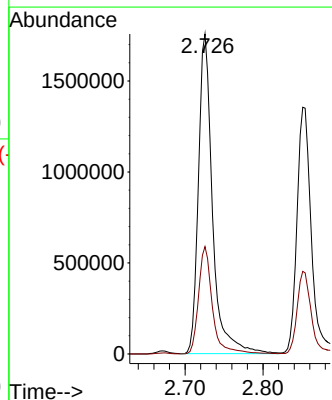
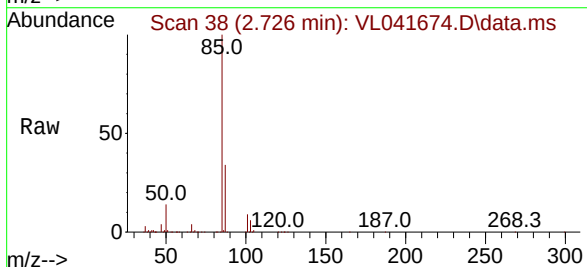
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

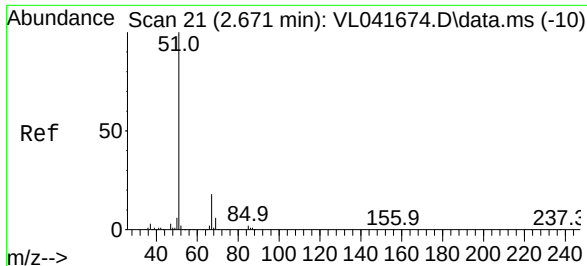
Tgt Ion: 49 Resp: 1170802  
Ion Ratio Lower Upper  
49 100  
128 47.5 23.8 71.2  
130 60.3 30.1 90.5



#2  
Dichlorodifluoromethane  
Concen: 10.438 ppbv  
RT: 2.726 min Scan# 38  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 85 Resp: 2208753  
Ion Ratio Lower Upper  
85 100  
87 33.5 26.8 40.2

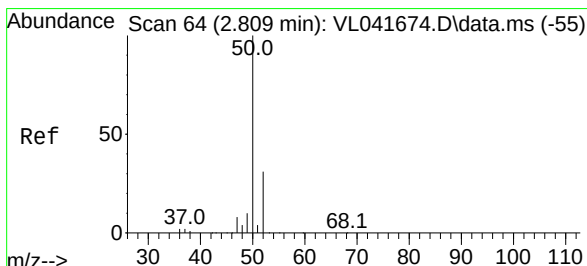
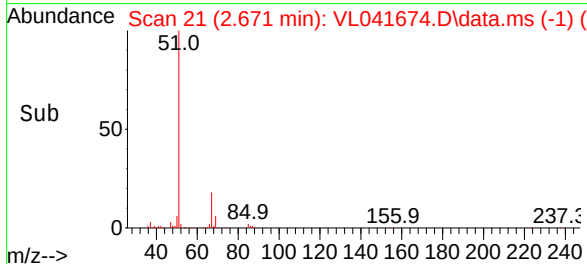
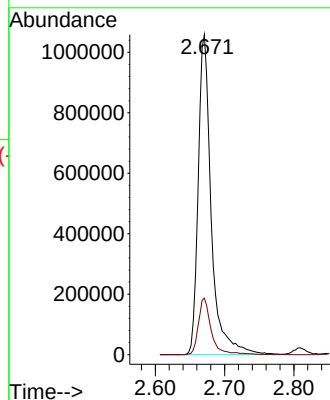
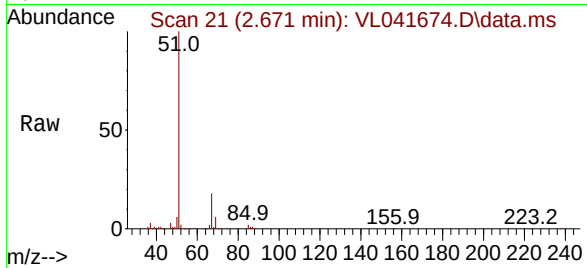




#3  
Chlorodifluoromethane  
Concen: 9.135 ppbv  
RT: 2.671 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

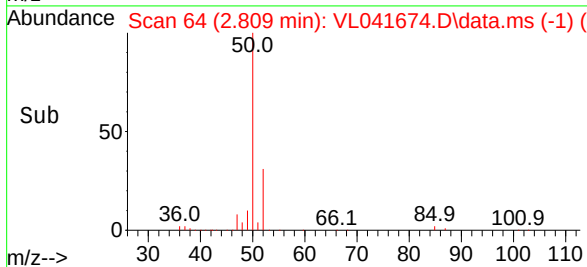
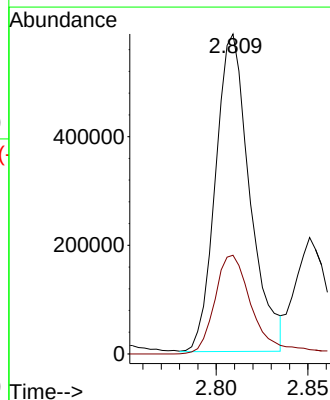
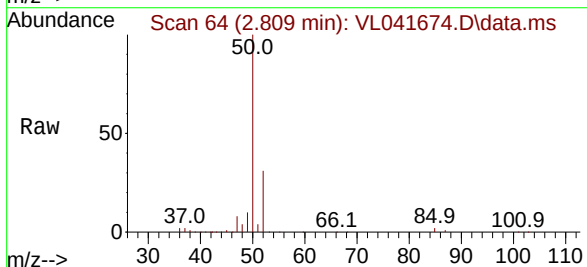
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

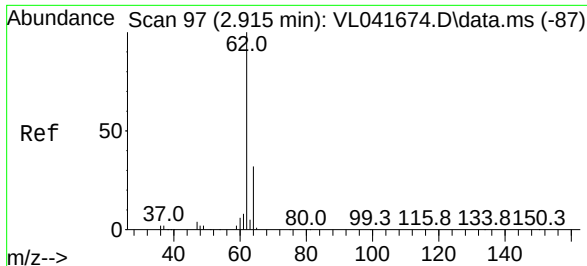
Tgt Ion: 51 Resp: 1393427  
Ion Ratio Lower Upper  
51 100  
67 17.4 13.9 20.9



#4  
Chloromethane  
Concen: 9.408 ppbv  
RT: 2.809 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 50 Resp: 760160  
Ion Ratio Lower Upper  
50 100  
52 31.1 24.9 37.3

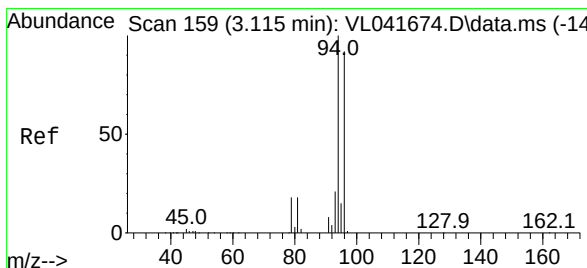
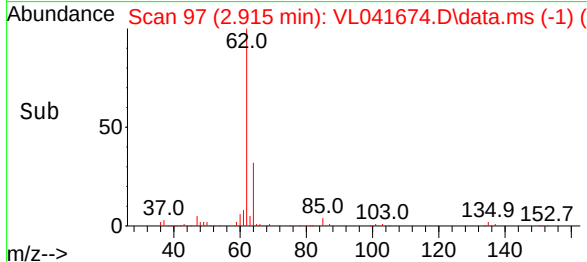
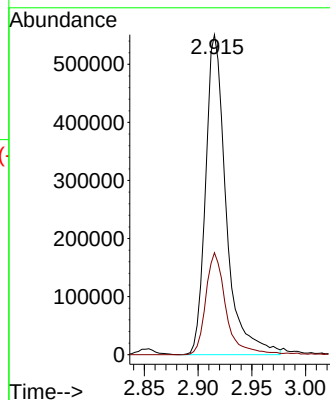
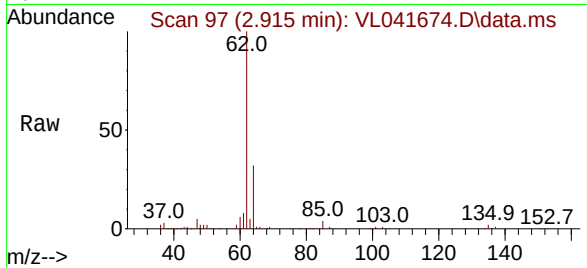




#5  
 Vinyl Chloride  
 Concen: 10.005 ppbv  
 RT: 2.915 min Scan# 91  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

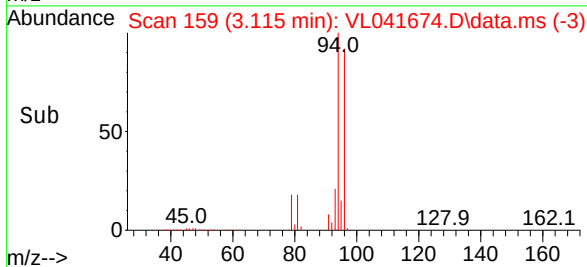
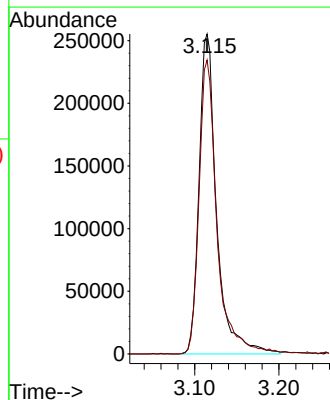
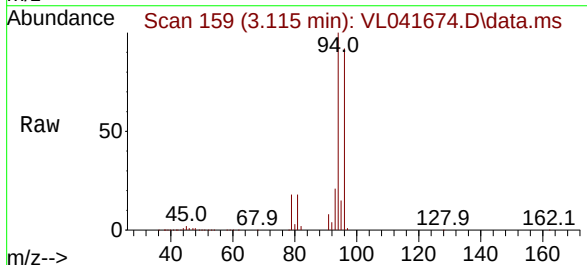
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

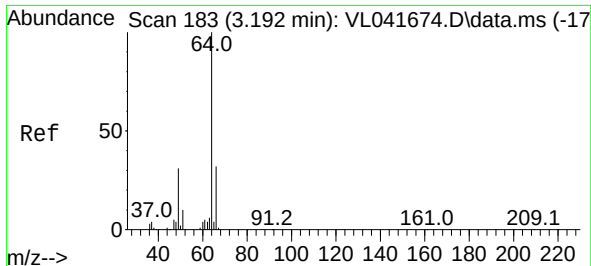
Tgt Ion: 62 Resp: 732442  
 Ion Ratio Lower Upper  
 62 100  
 64 31.8 25.4 38.2



#6  
 Bromomethane  
 Concen: 9.628 ppbv  
 RT: 3.115 min Scan# 159  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

Tgt Ion: 94 Resp: 371242  
 Ion Ratio Lower Upper  
 94 100  
 96 91.8 73.4 110.2

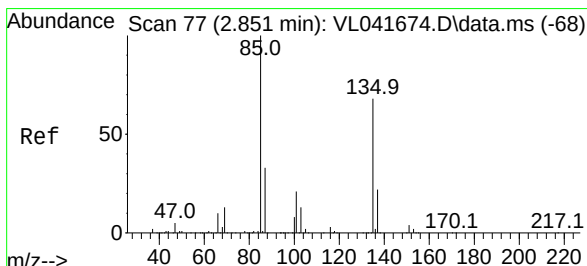
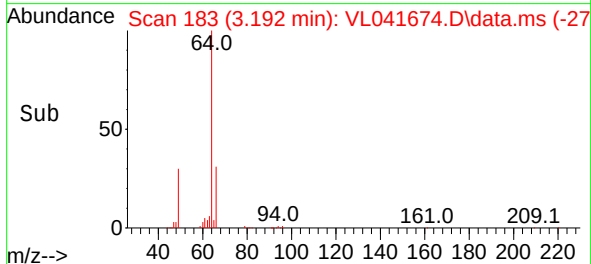
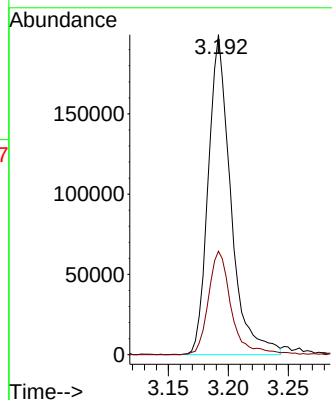
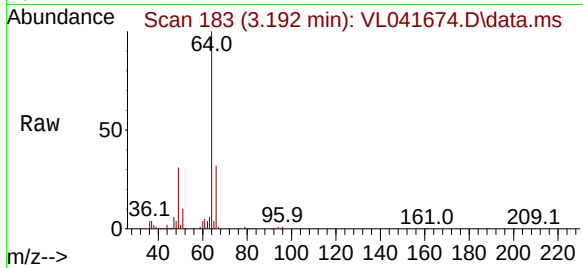




#7  
Chloroethane  
Concen: 9.824 ppbv  
RT: 3.192 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

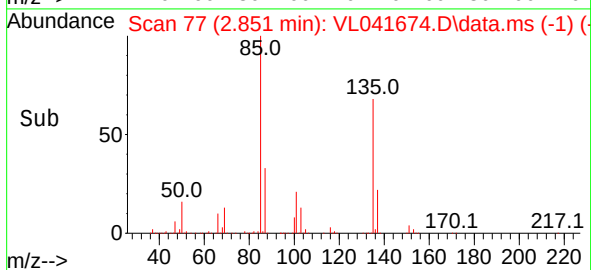
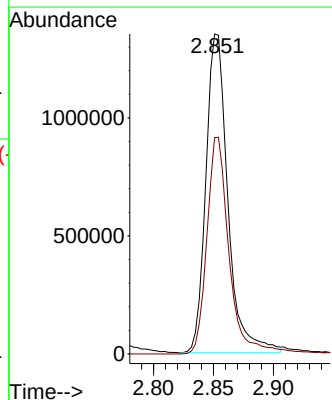
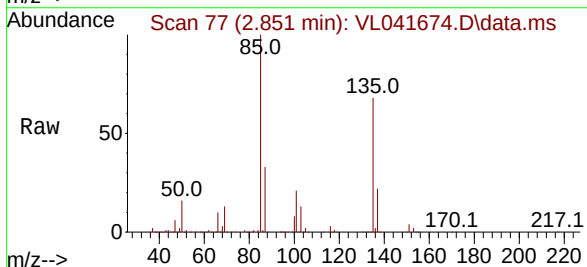
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

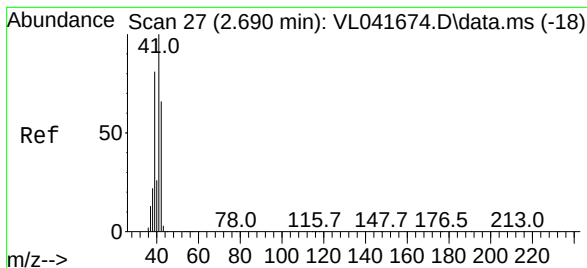
Tgt Ion: 64 Resp: 260602  
Ion Ratio Lower Upper  
64 100  
66 32.4 25.9 38.9



#8  
Dichlorotetrafluoroethane  
Concen: 9.151 ppbv  
RT: 2.851 min Scan# 77  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 85 Resp: 1728631  
Ion Ratio Lower Upper  
85 100  
135 69.4 55.5 83.3





#9

Propene

Concen: 9.327 ppbv

RT: 2.690 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

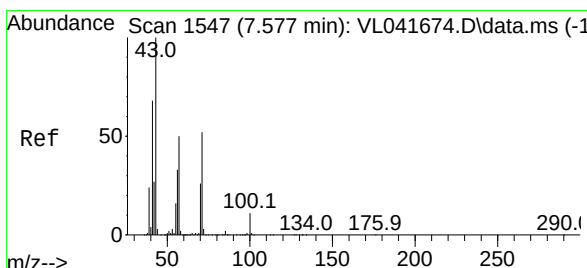
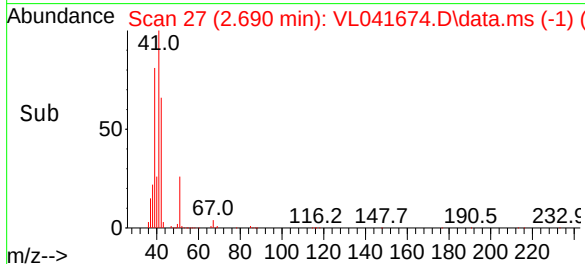
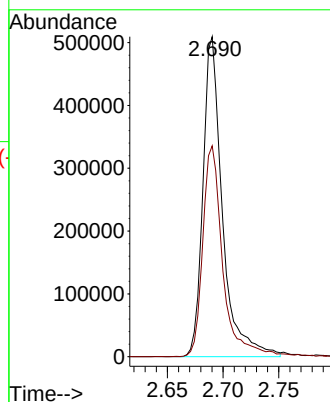
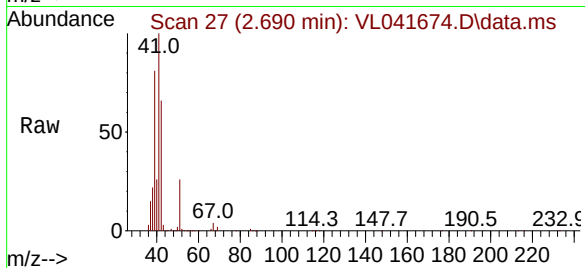
VSTDICCC010

Tgt Ion: 41 Resp: 619994

Ion Ratio Lower Upper

41 100

42 68.7 55.0 82.4



#10

Heptane

Concen: 10.305 ppbv

RT: 7.577 min Scan# 1547

Delta R.T. 0.000 min

Lab File: VL041674.D

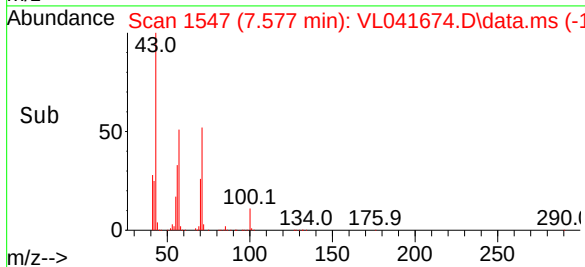
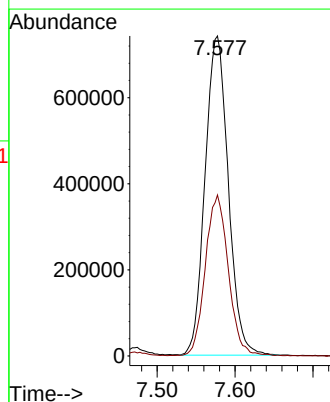
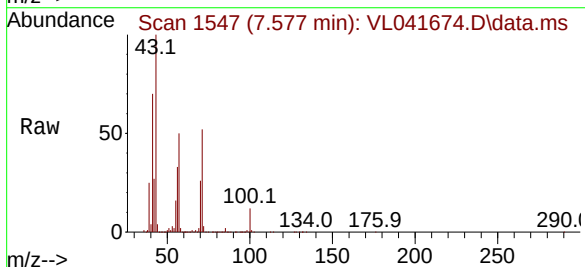
Acq: 7 Nov 2024 10:15

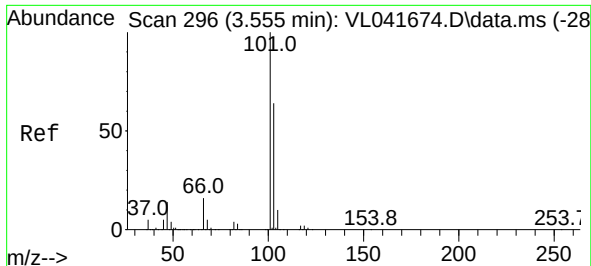
Tgt Ion: 43 Resp: 1534950

Ion Ratio Lower Upper

43 100

57 50.0 40.0 60.0

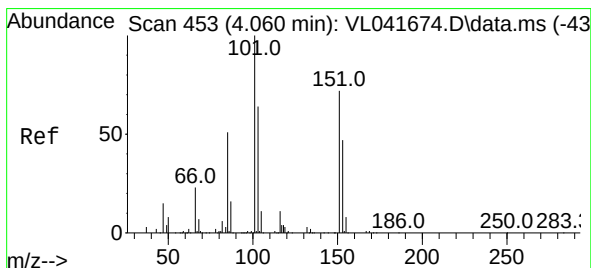
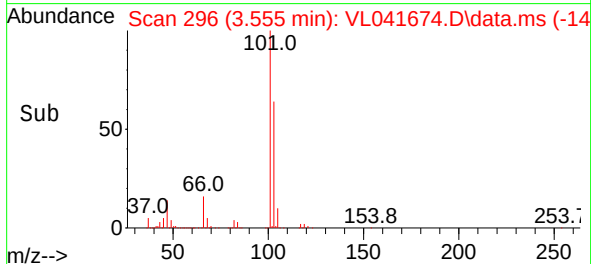
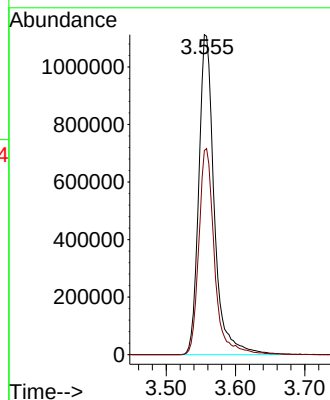
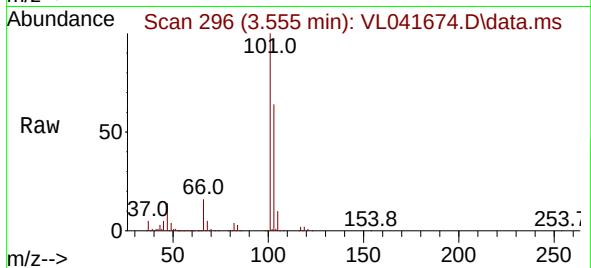




#11  
Trichlorofluoromethane  
Concen: 9.401 ppbv  
RT: 3.555 min Scan# 296  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

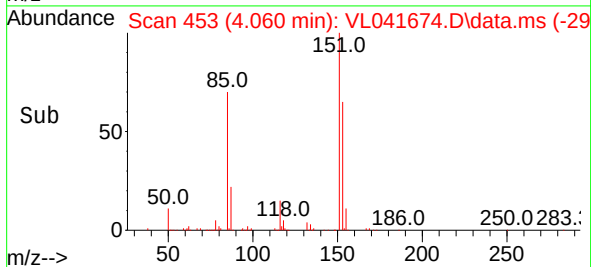
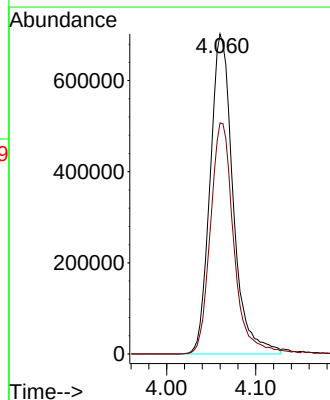
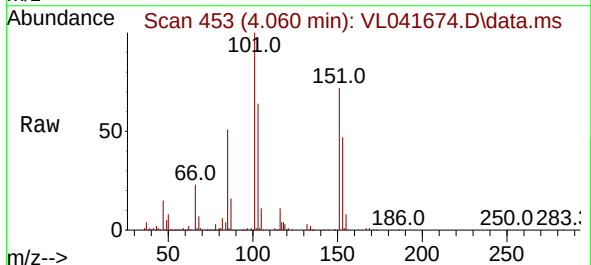
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

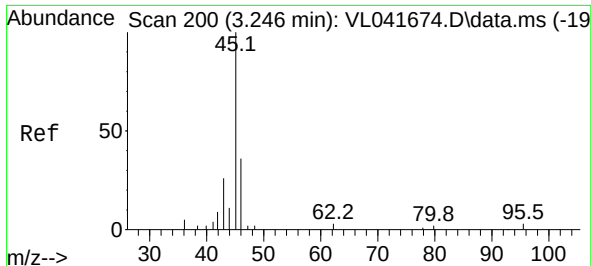
Tgt Ion:101 Resp: 1732857  
Ion Ratio Lower Upper  
101 100  
103 63.8 51.0 76.6



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.388 ppbv  
RT: 4.060 min Scan# 453  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion:101 Resp: 1257722  
Ion Ratio Lower Upper  
101 100  
151 73.9 59.1 88.7





#13

Ethanol

Concen: 6.950 ppbv

RT: 3.246 min Scan# 200

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

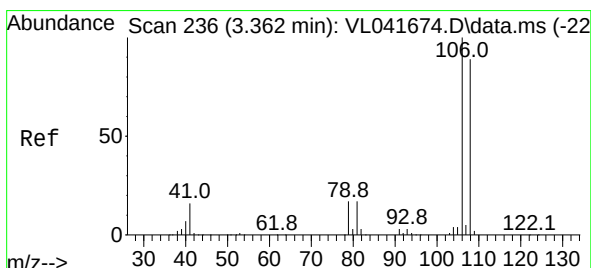
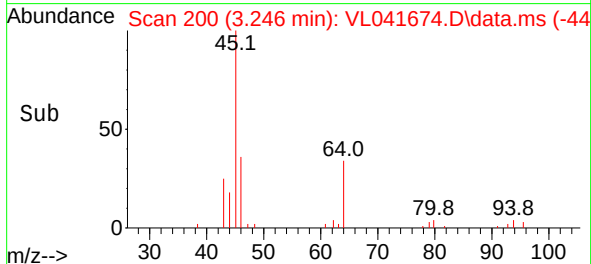
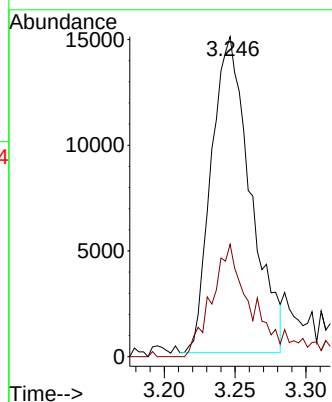
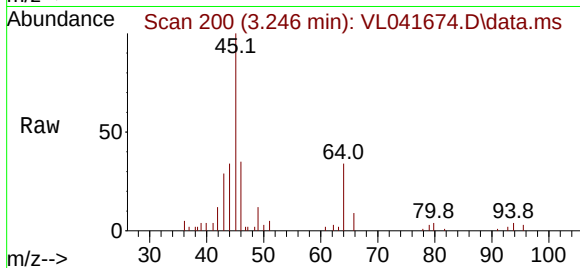
VSTDICCC010

Tgt Ion: 45 Resp: 28737

Ion Ratio Lower Upper

45 100

46 40.5 13.8 55.2



#14

Bromoethene

Concen: 9.366 ppbv

RT: 3.362 min Scan# 236

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

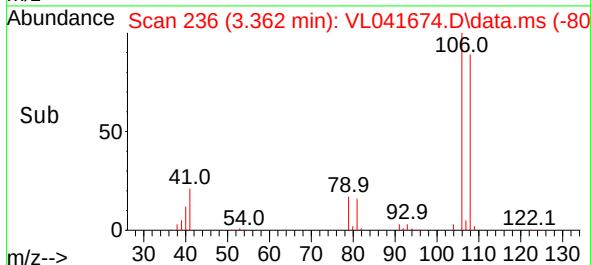
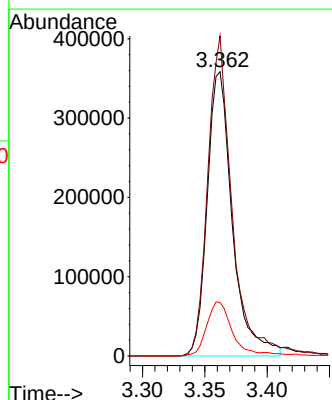
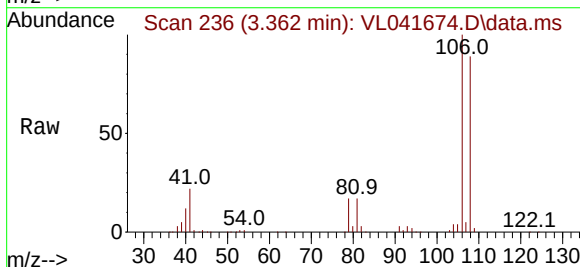
Tgt Ion: 108 Resp: 504428

Ion Ratio Lower Upper

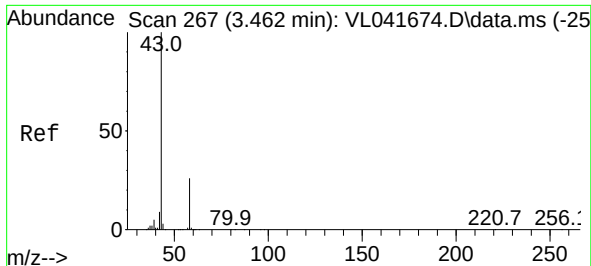
108 100

106 110.8 88.6 133.0

79 19.5 15.6 23.4



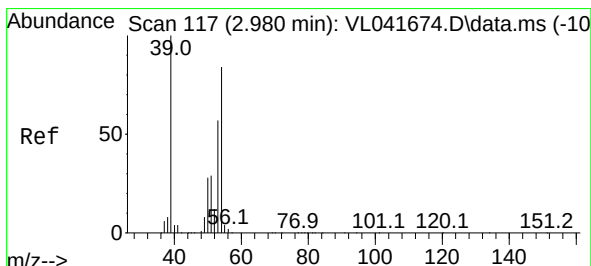
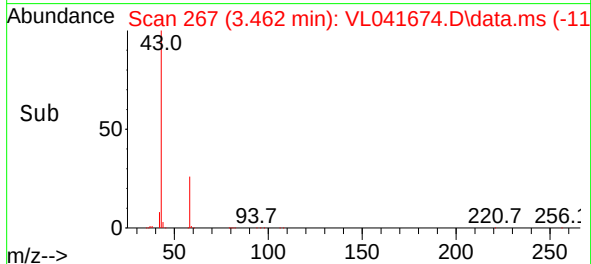
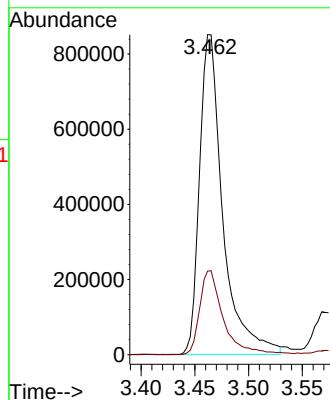
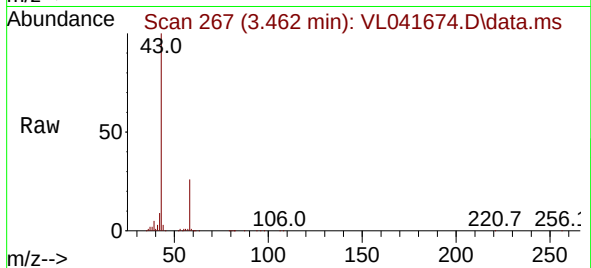




#15  
Acetone  
Concen: 8.923 ppbv  
RT: 3.462 min Scan# 267  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

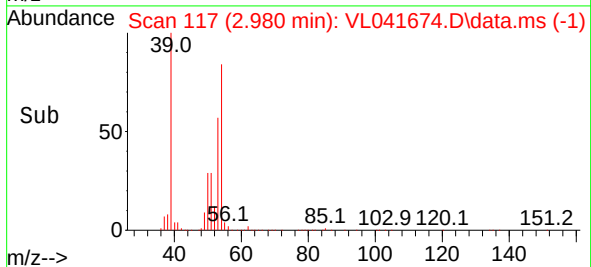
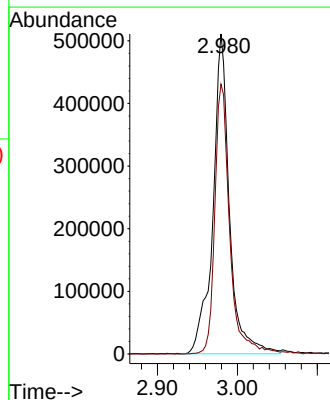
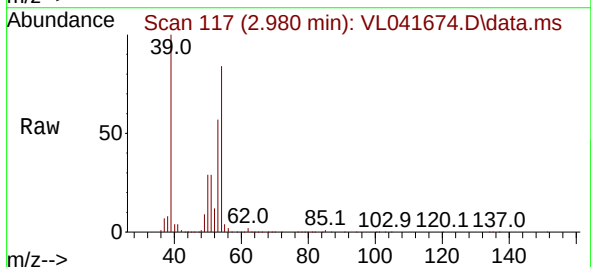
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

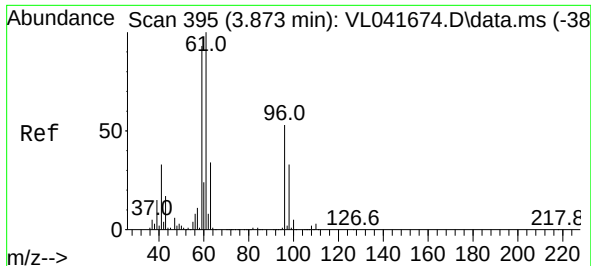
Tgt Ion: 43 Resp: 1285781  
Ion Ratio Lower Upper  
43 100  
58 26.7 21.4 32.0



#16  
1,3-Butadiene  
Concen: 10.160 ppbv  
RT: 2.980 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 39 Resp: 734062  
Ion Ratio Lower Upper  
39 100  
54 76.6 61.3 91.9





#17

tert-Butyl alcohol

Concen: 9.611 ppbv

RT: 3.873 min Scan# 395

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_1

ClientSampleId :

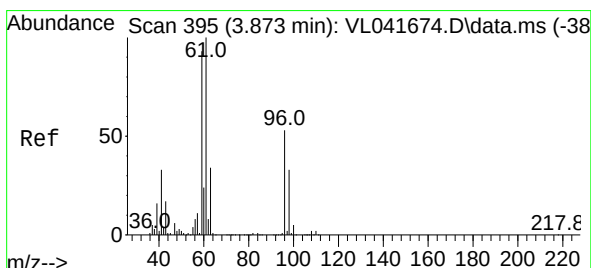
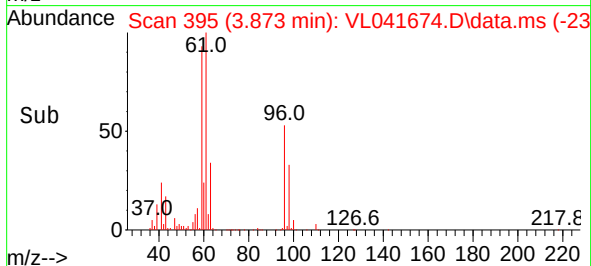
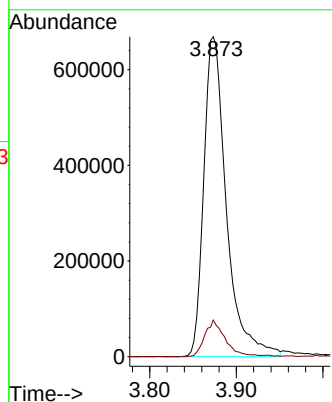
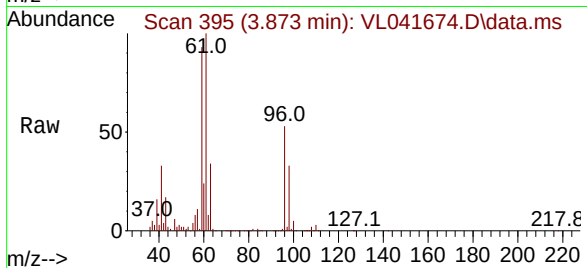
VSTDICCC010

Tgt Ion: 59 Resp: 1215299

Ion Ratio Lower Upper

59 100

57 10.6 8.5 12.7



#18

1,1-Dichloroethene

Concen: 9.484 ppbv

RT: 3.873 min Scan# 395

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

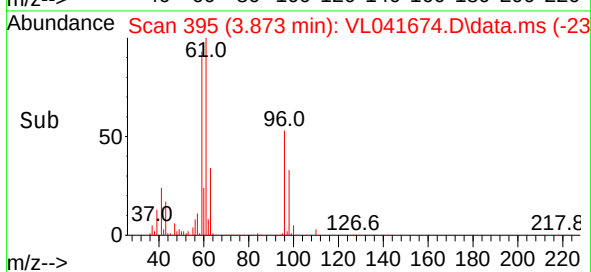
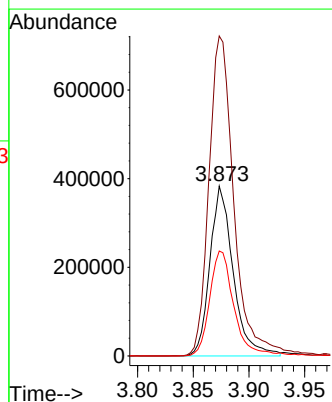
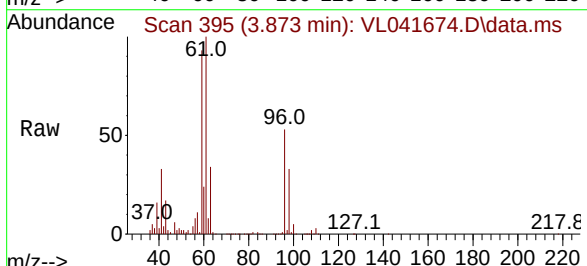
Tgt Ion: 96 Resp: 557278

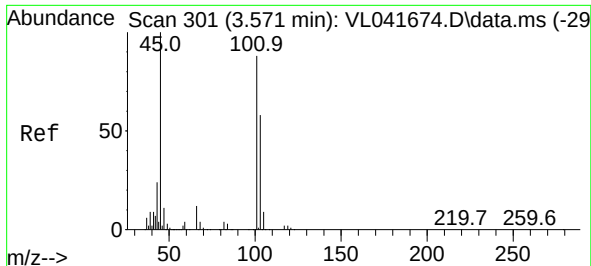
Ion Ratio Lower Upper

96 100

61 188.4 150.7 226.1

98 61.8 49.4 74.2

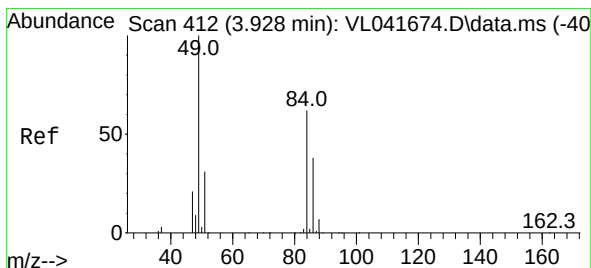
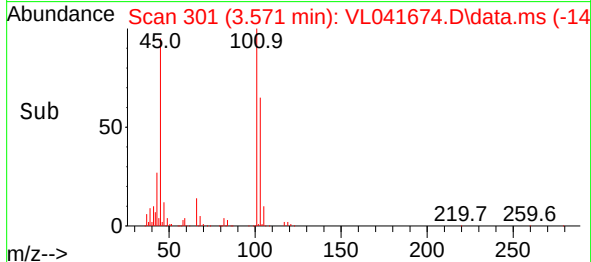
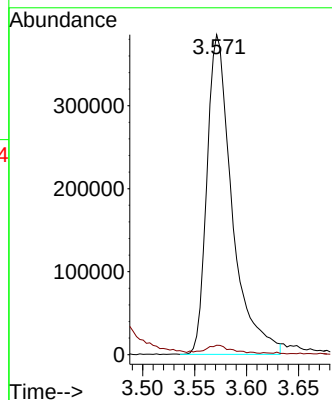
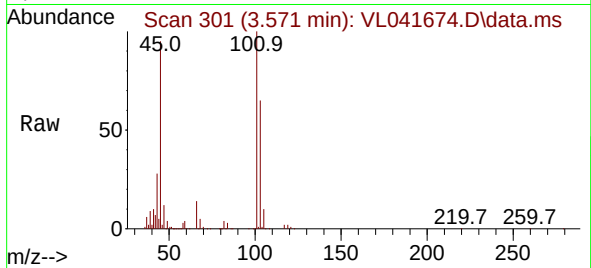




#19  
Isopropyl Alcohol  
Concen: 9.266 ppbv  
RT: 3.571 min Scan# 301  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

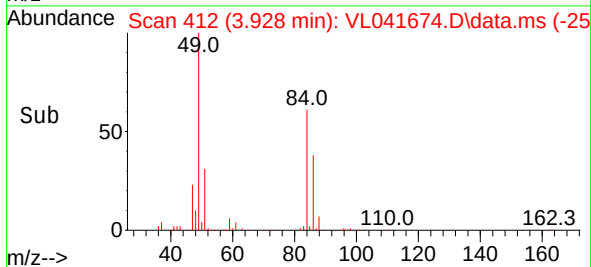
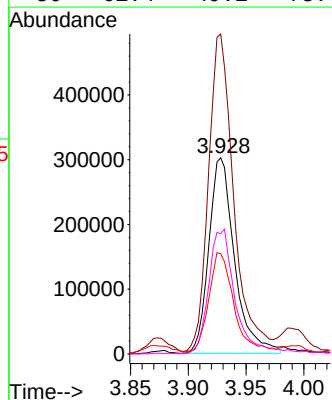
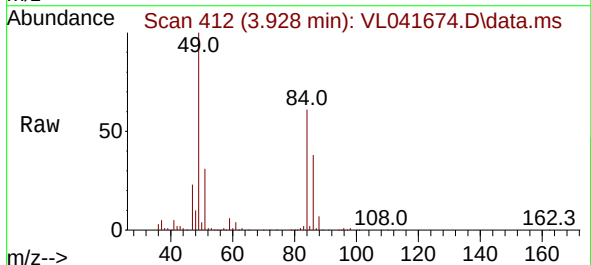
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

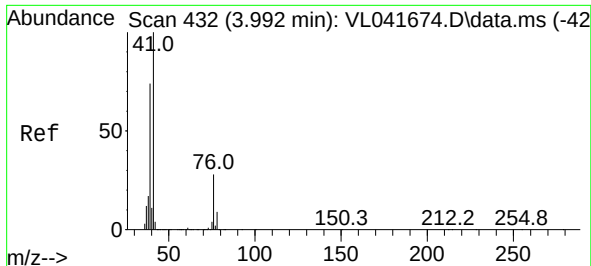
Tgt Ion: 45 Resp: 646252  
Ion Ratio Lower Upper  
45 100  
58 3.1 2.5 3.7



#20  
Methylene Chloride  
Concen: 8.837 ppbv  
RT: 3.928 min Scan# 412  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 84 Resp: 468549  
Ion Ratio Lower Upper  
84 100  
49 162.1 129.7 194.5  
51 49.7 39.8 59.6  
86 61.4 49.1 73.7





#21

Allyl Chloride

Concen: 9.979 ppbv

RT: 3.992 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

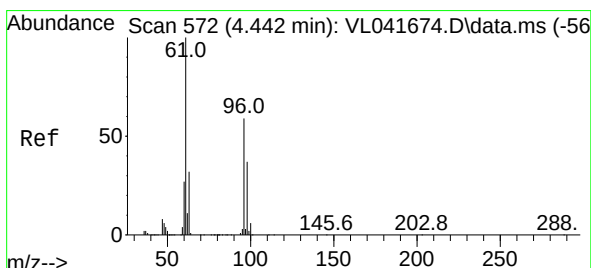
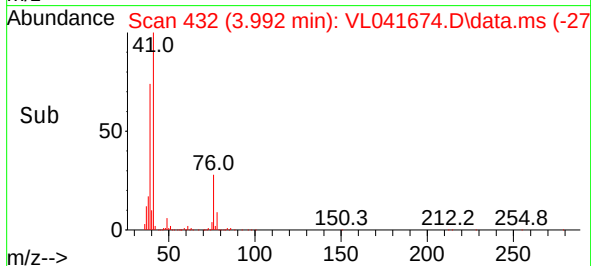
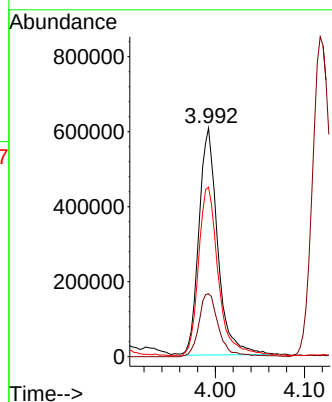
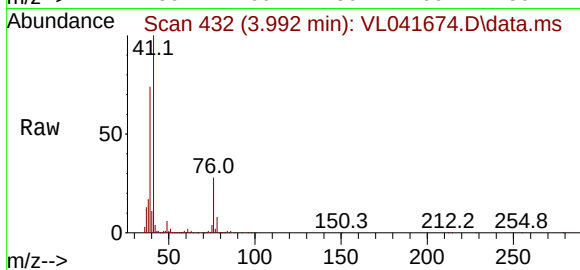
Tgt Ion: 41 Resp: 888517

Ion Ratio Lower Upper

41 100

76 29.4 23.5 35.3

39 78.7 63.0 94.4



#22

trans-1,2-Dichloroethene

Concen: 9.660 ppbv

RT: 4.442 min Scan# 572

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

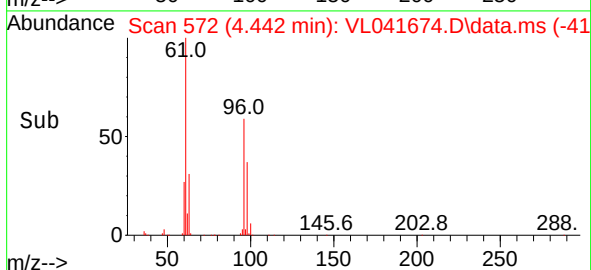
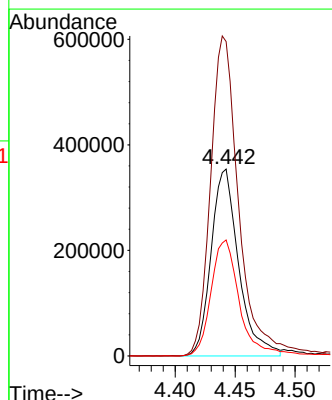
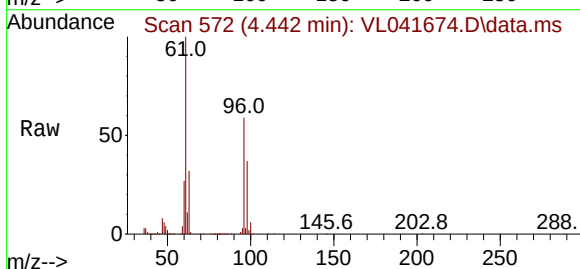
Tgt Ion: 96 Resp: 566347

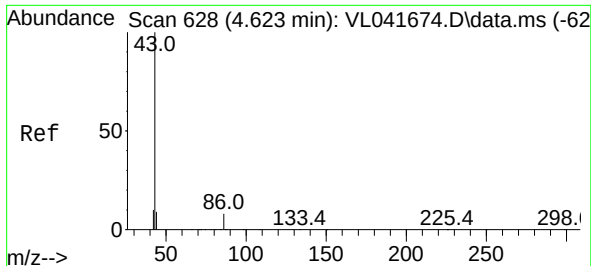
Ion Ratio Lower Upper

96 100

61 168.1 134.5 201.7

98 62.0 49.6 74.4



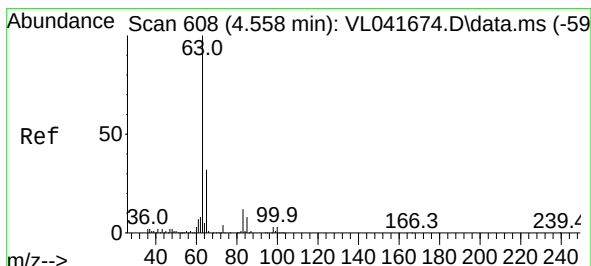
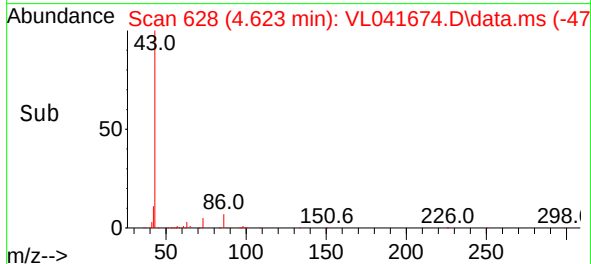
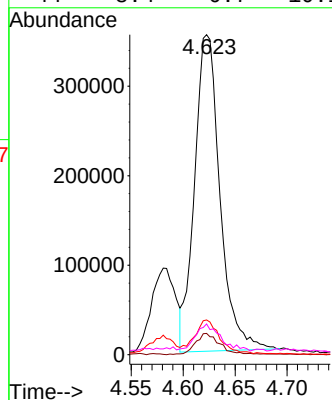
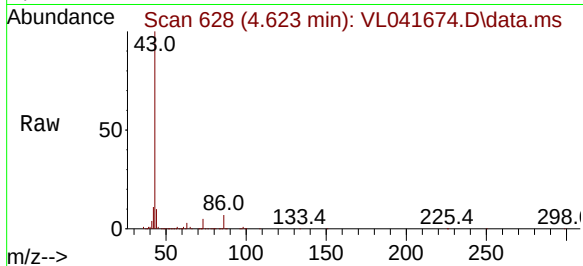


#23  
 Vinyl Acetate  
 Concen: 8.886 ppbv  
 RT: 4.623 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion: 43 Resp: 602236

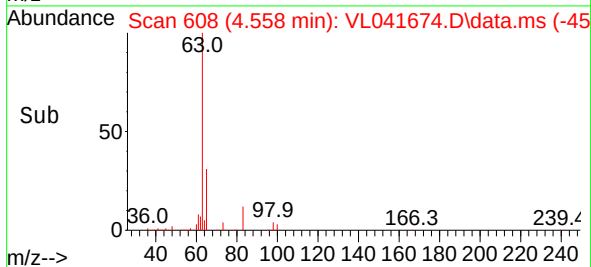
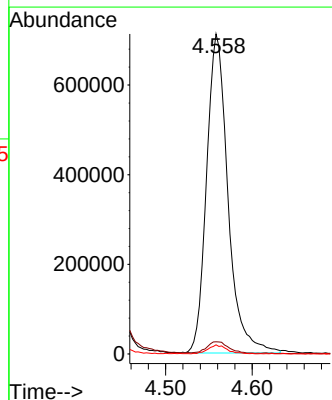
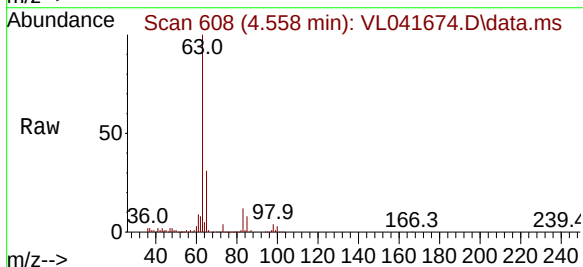
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.6   | 5.3   | 7.9   |
| 42  | 10.6  | 8.5   | 12.7  |
| 44  | 8.4   | 6.7   | 10.1  |

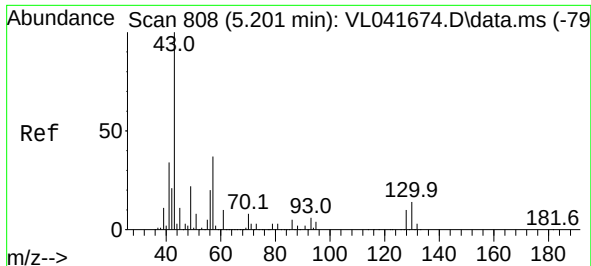


#24  
 1,1-Dichloroethane  
 Concen: 9.380 ppbv  
 RT: 4.558 min Scan# 608  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

Tgt Ion: 63 Resp: 1223224

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 3.6   | 1.8   | 5.4   |
| 100 | 2.8   | 1.4   | 4.2   |



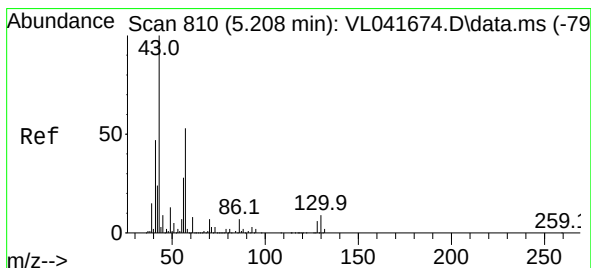
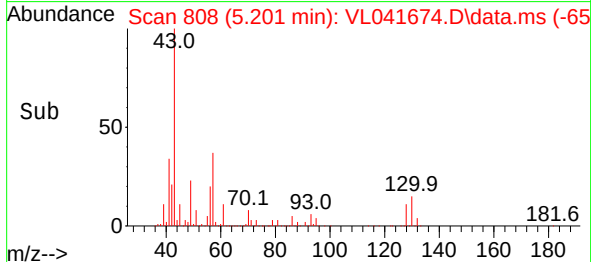
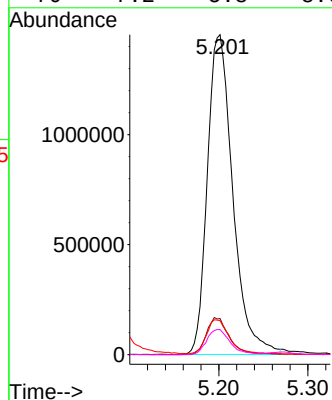
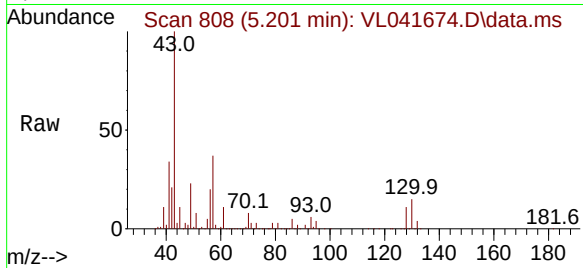


#25  
Ethyl Acetate  
Concen: 9.668 ppbv  
RT: 5.201 min Scan# 808  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 43 Resp: 2883606

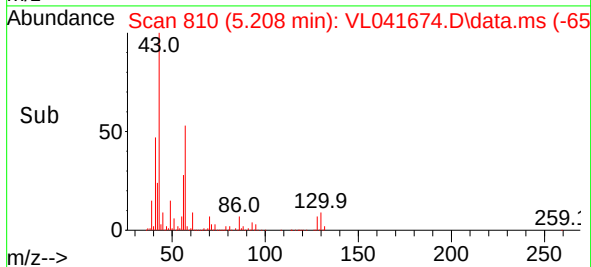
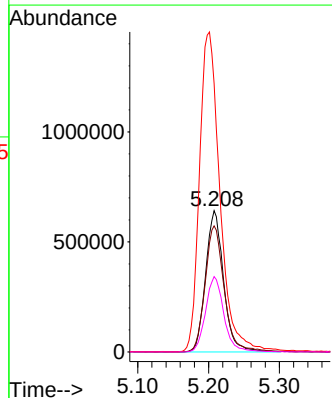
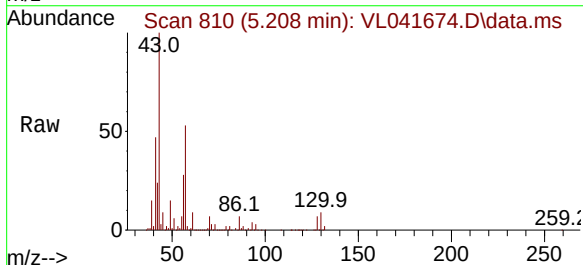
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.8  | 8.6   | 13.0  |
| 61  | 10.5  | 8.4   | 12.6  |
| 70  | 7.2   | 5.8   | 8.6   |

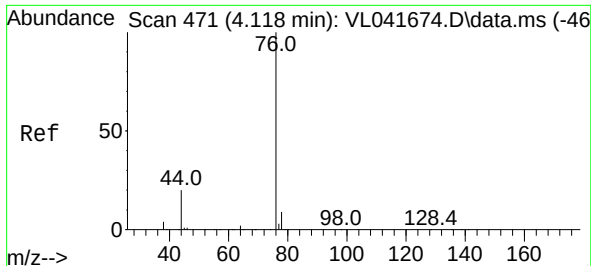


#26  
Hexane  
Concen: 9.869 ppbv  
RT: 5.208 min Scan# 810  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 57 Resp: 1130877

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 95.1  | 76.1  | 114.1 |
| 43  | 258.8 | 207.0 | 310.6 |
| 56  | 54.6  | 43.7  | 65.5  |

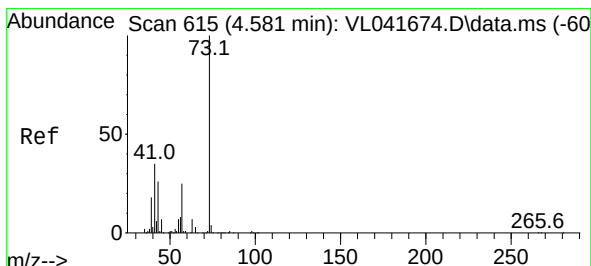
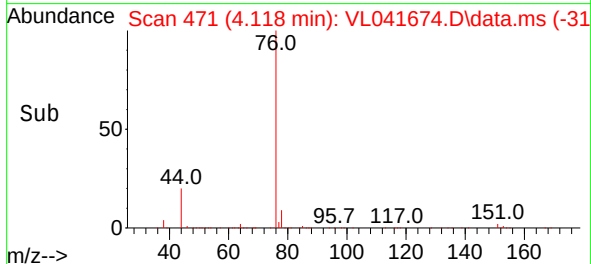
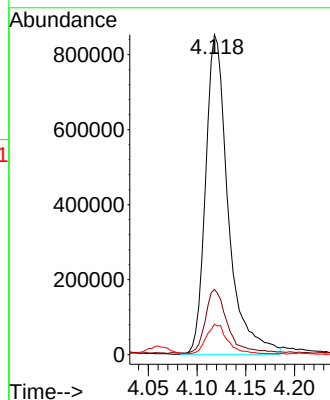
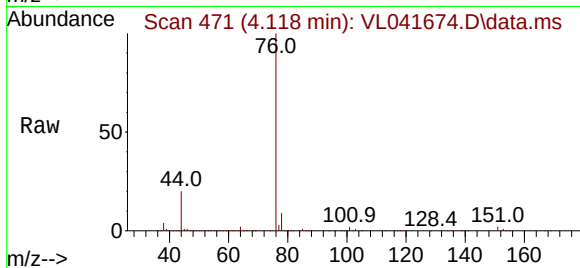




#27  
Carbon Disulfide  
Concen: 10.675 ppbv  
RT: 4.118 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

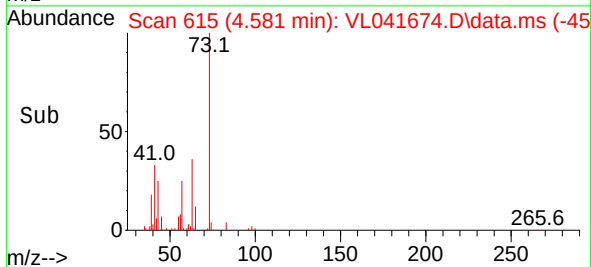
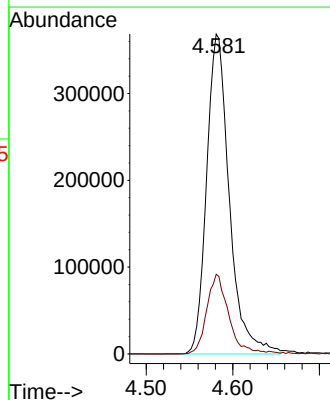
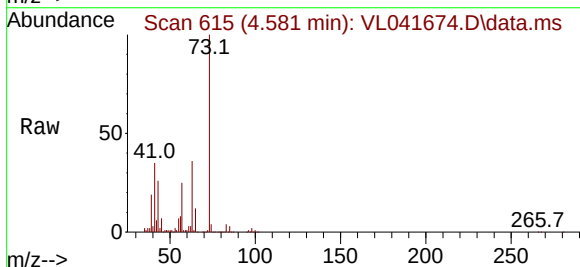
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

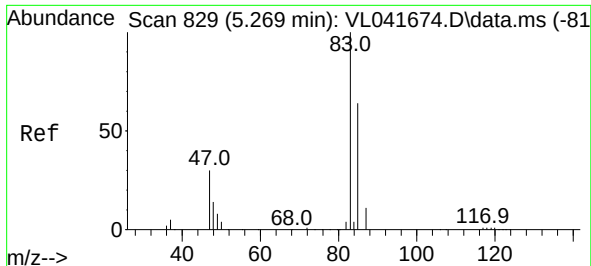
Tgt Ion: 76 Resp: 1374259  
Ion Ratio Lower Upper  
76 100  
44 19.8 15.8 23.8  
78 9.4 7.5 11.3



#28  
Methyl tert-Butyl Ether  
Concen: 9.092 ppbv  
RT: 4.581 min Scan# 615  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 73 Resp: 670928  
Ion Ratio Lower Upper  
73 100  
57 24.5 19.6 29.4





#29

Chloroform

Concen: 9.407 ppbv

RT: 5.269 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

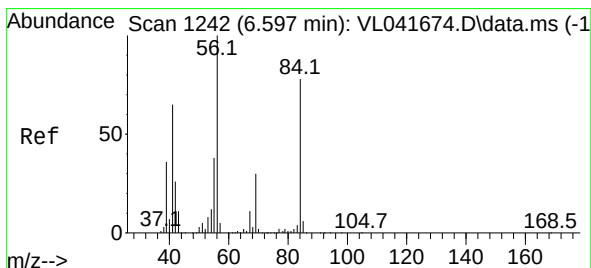
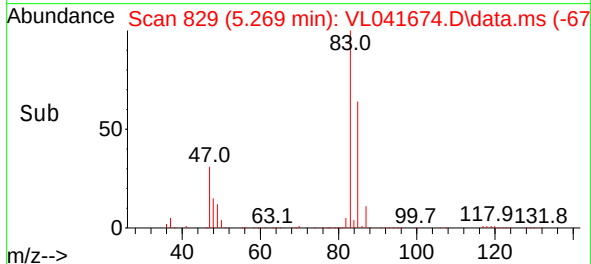
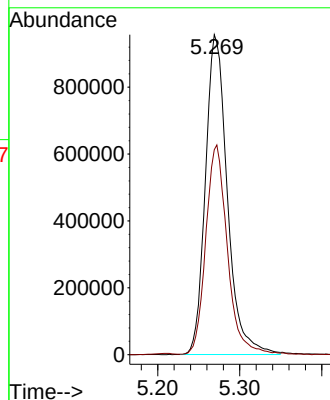
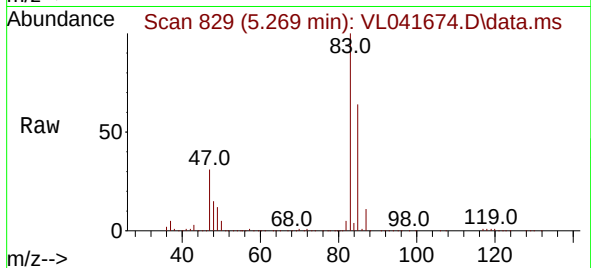
VSTDICCC010

Tgt Ion: 83 Resp: 1779347

Ion Ratio Lower Upper

83 100

85 63.9 51.1 76.7



#30

Cyclohexane

Concen: 10.487 ppbv

RT: 6.597 min Scan# 1242

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

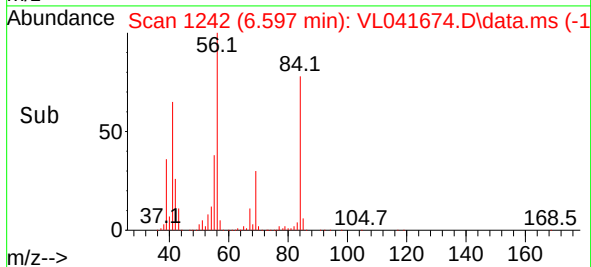
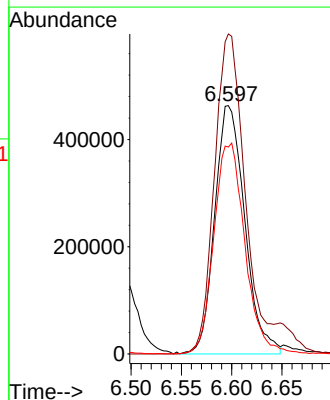
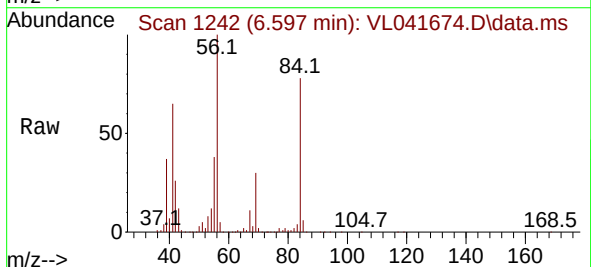
Tgt Ion: 84 Resp: 965390

Ion Ratio Lower Upper

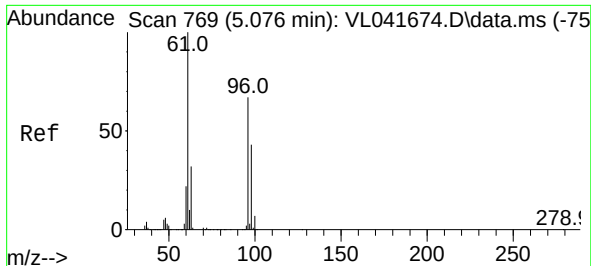
84 100

56 138.5 110.8 166.2

41 87.5 70.0 105.0







#31

cis-1,2-Dichloroethene

Concen: 9.937 ppbv

RT: 5.076 min Scan# 769

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

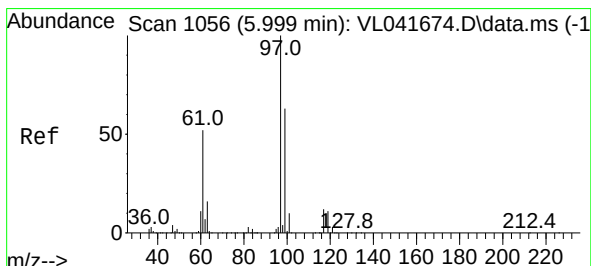
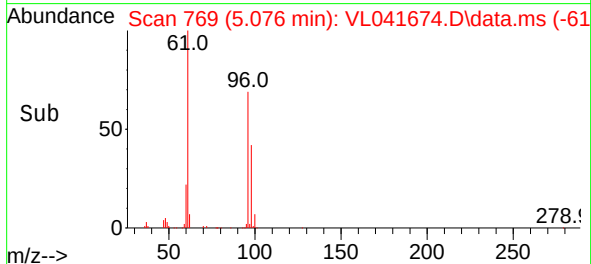
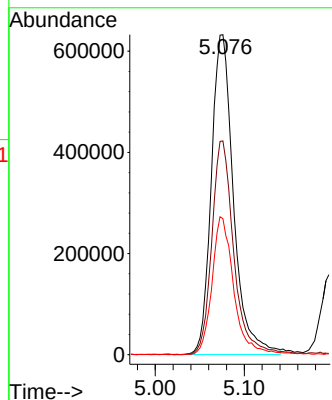
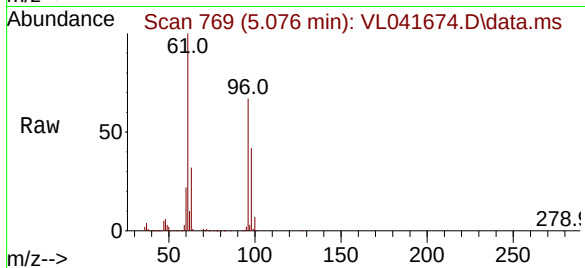
Tgt Ion: 61 Resp: 1095423

Ion Ratio Lower Upper

61 100

96 66.8 53.4 80.2

98 42.5 34.0 51.0



#32

1,1,1-Trichloroethane

Concen: 10.047 ppbv

RT: 5.999 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

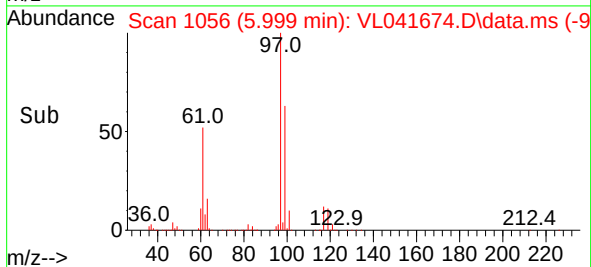
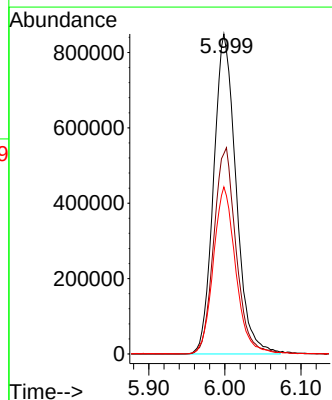
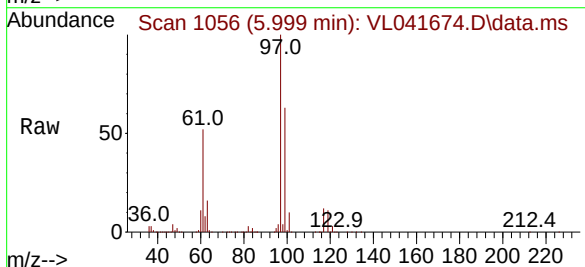
Tgt Ion: 97 Resp: 1742198

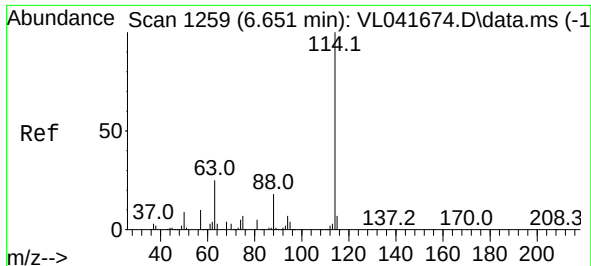
Ion Ratio Lower Upper

97 100

99 64.3 51.4 77.2

61 52.1 41.7 62.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.651 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

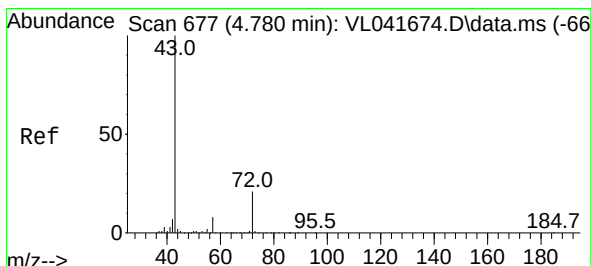
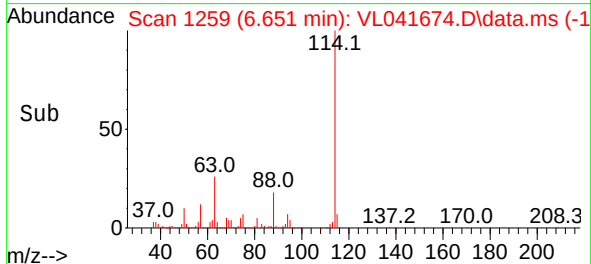
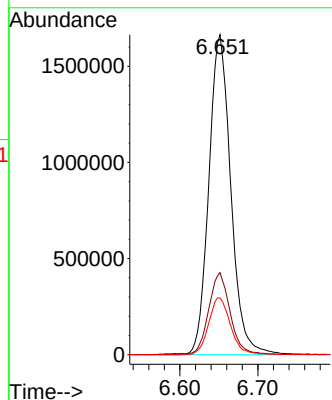
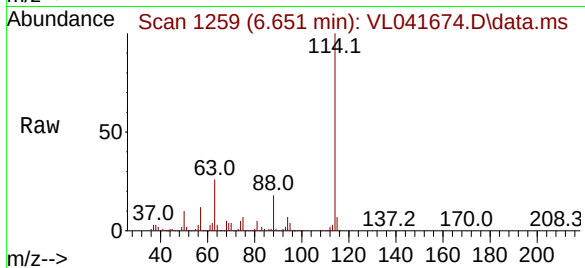
Tgt Ion:114 Resp: 3260349

Ion Ratio Lower Upper

114 100

63 25.4 20.3 30.5

88 17.8 14.2 21.4



#34

2-Butanone

Concen: 9.606 ppbv

RT: 4.780 min Scan# 677

Delta R.T. 0.000 min

Lab File: VL041674.D

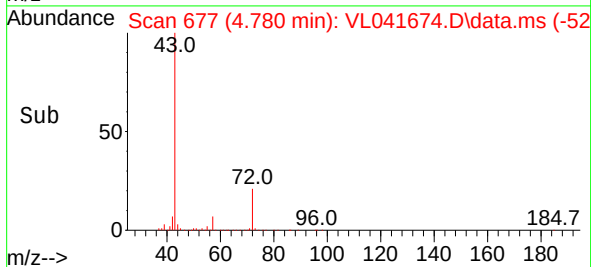
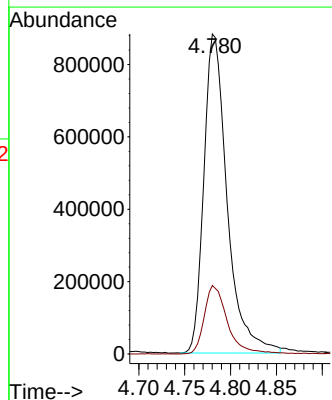
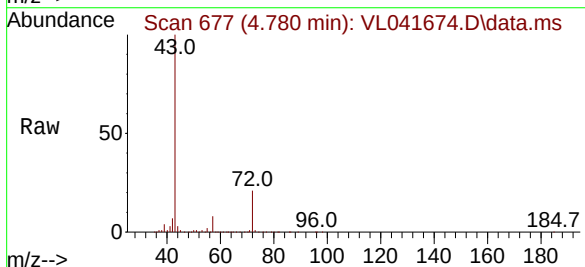
Acq: 7 Nov 2024 10:15

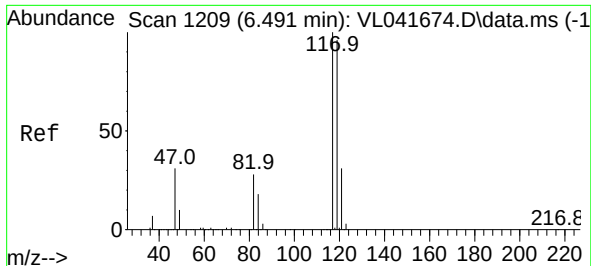
Tgt Ion: 43 Resp: 1559421

Ion Ratio Lower Upper

43 100

72 21.7 17.4 26.0





#35

Carbon Tetrachloride

Concen: 10.670 ppbv

RT: 6.491 min Scan# 1170

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICCC010

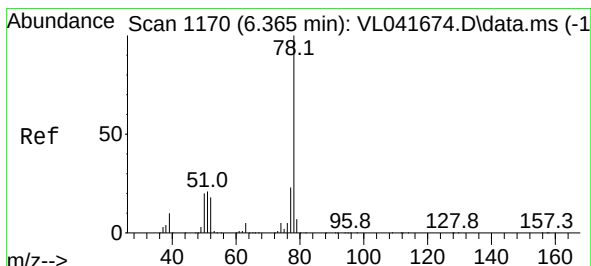
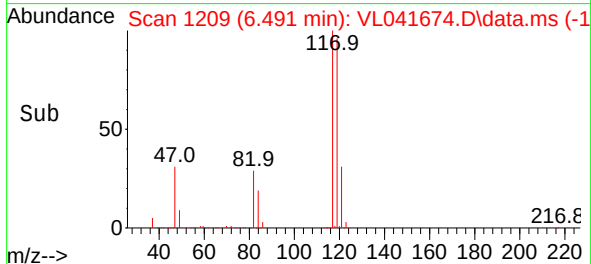
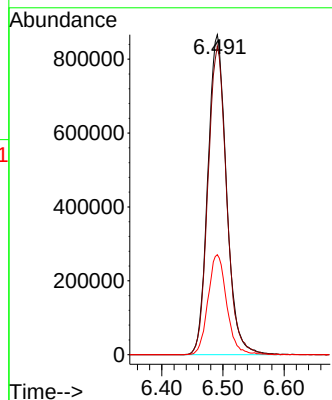
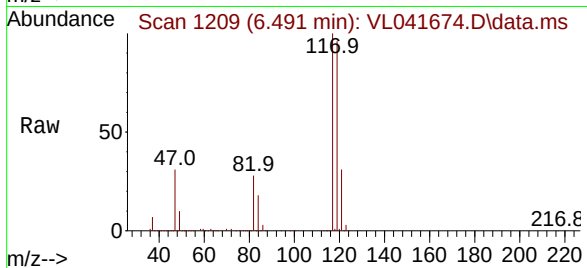
Tgt Ion:117 Resp: 1838964

Ion Ratio Lower Upper

117 100

119 96.5 77.2 115.8

121 31.2 25.0 37.4



#36

Benzene

Concen: 9.955 ppbv

RT: 6.365 min Scan# 1170

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

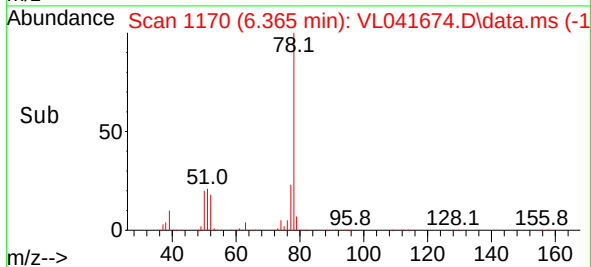
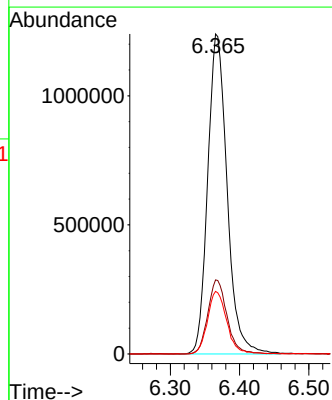
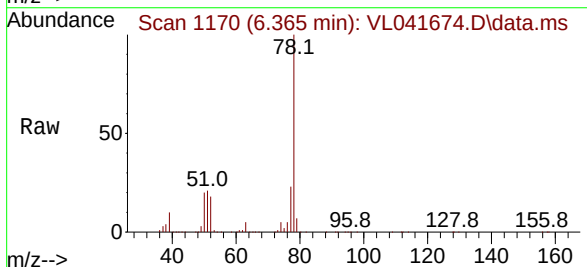
Tgt Ion: 78 Resp: 2404772

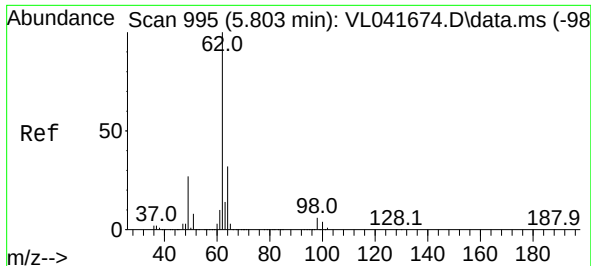
Ion Ratio Lower Upper

78 100

77 23.1 18.5 27.7

50 19.5 15.6 23.4





#37

1,2-Dichloroethane

Concen: 9.768 ppbv

RT: 5.803 min Scan# 995

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

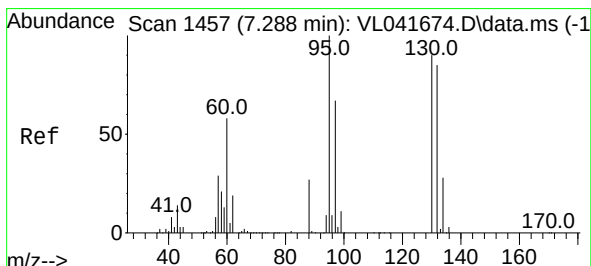
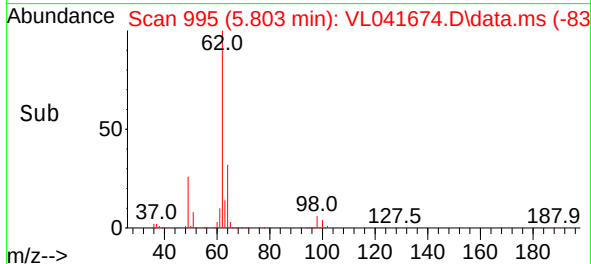
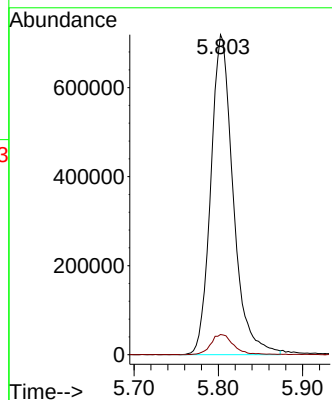
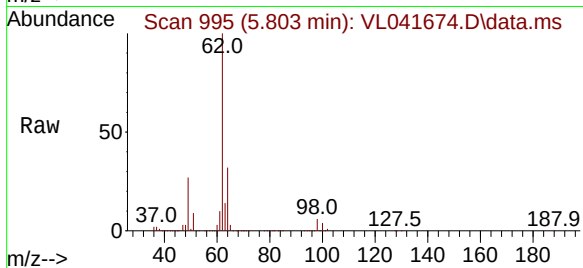
VSTDICCC010

Tgt Ion: 62 Resp: 1331275

Ion Ratio Lower Upper

62 100

98 6.5 5.2 7.8



#38

Trichloroethene

Concen: 10.594 ppbv

RT: 7.288 min Scan# 1457

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Tgt Ion:130 Resp: 986911

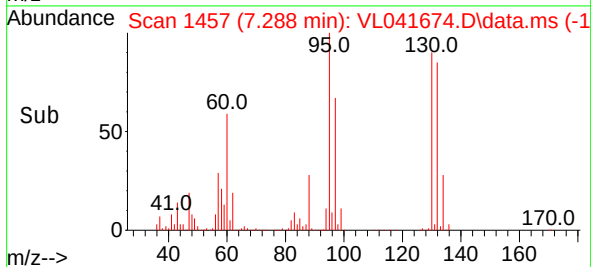
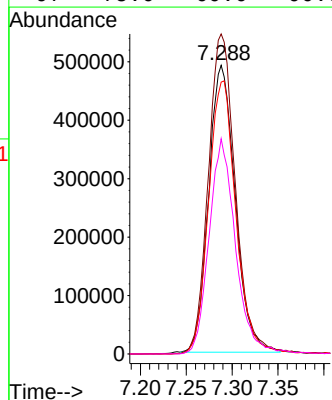
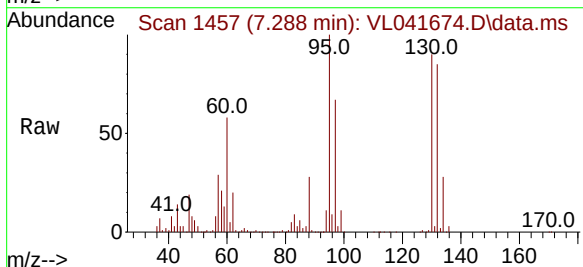
Ion Ratio Lower Upper

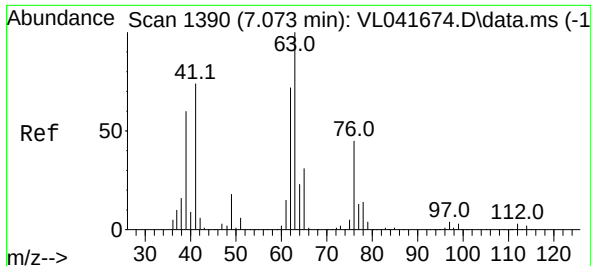
130 100

95 111.4 89.1 133.7

132 94.6 75.7 113.5

97 75.0 60.0 90.0





#39

1,2-Dichloropropane

Concen: 9.711 ppbv

RT: 7.073 min Scan# 1455

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

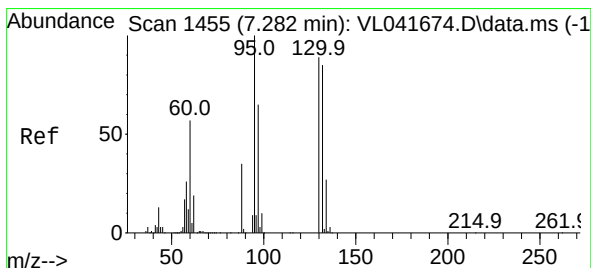
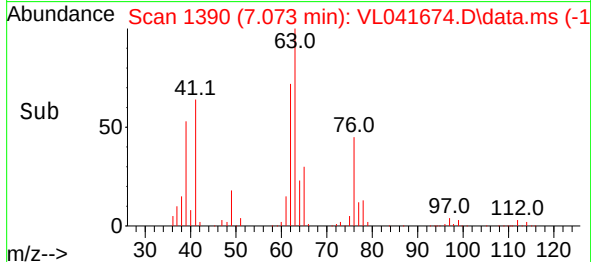
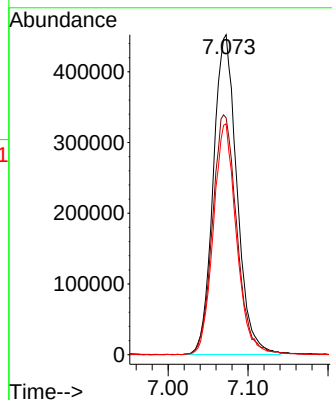
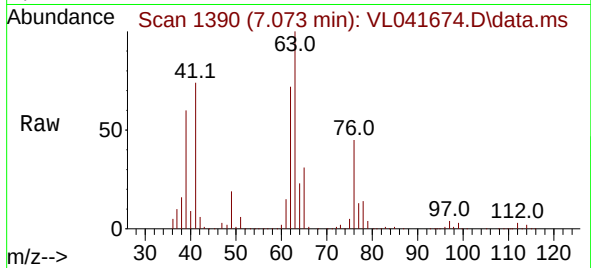
Tgt Ion: 63 Resp: 927055

Ion Ratio Lower Upper

63 100

41 73.9 59.1 88.7

62 72.1 57.7 86.5



#40

1,4-Dioxane

Concen: 10.691 ppbv

RT: 7.282 min Scan# 1455

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Tgt Ion: 88 Resp: 361524

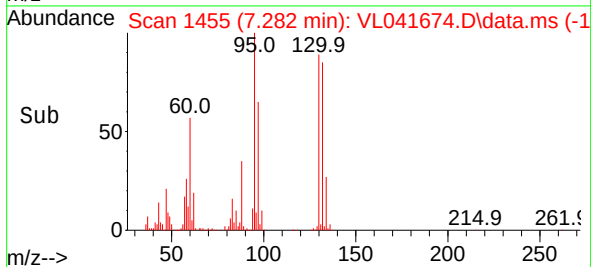
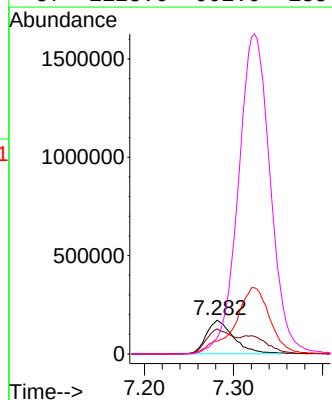
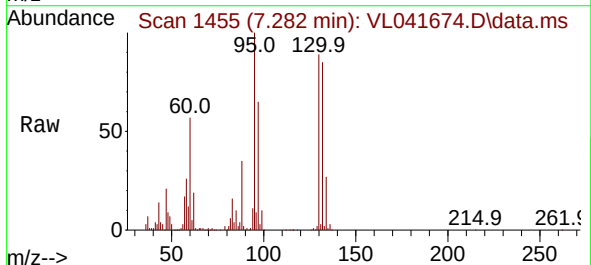
Ion Ratio Lower Upper

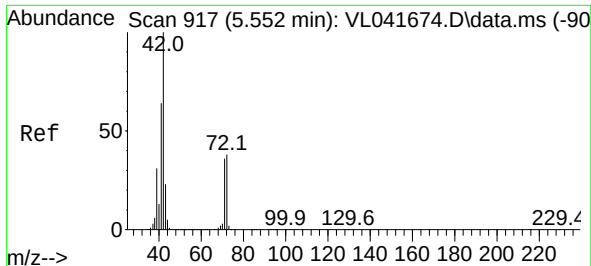
88 100

58 126.8 101.4 152.2

43 260.0 208.0 312.0

57 1128.6 902.9 1354.3





#41

Tetrahydrofuran

Concen: 10.379 ppbv

RT: 5.552 min Scan# 917

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

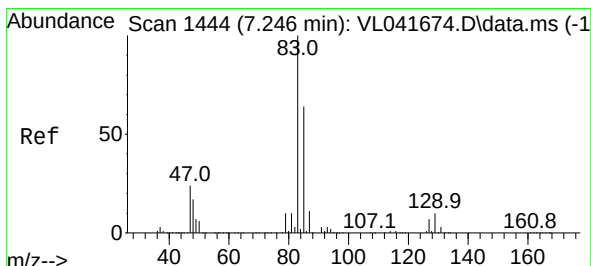
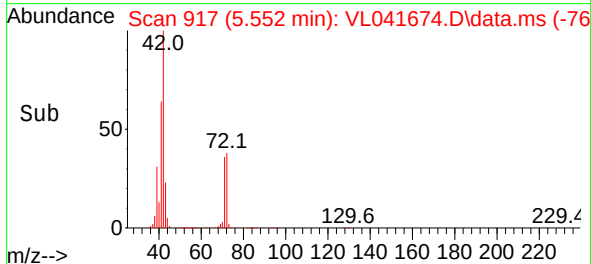
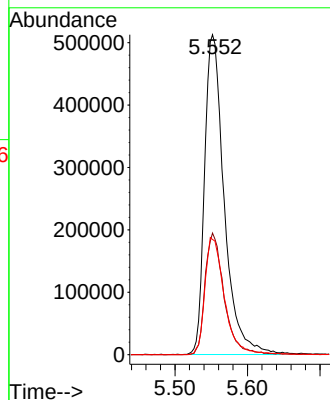
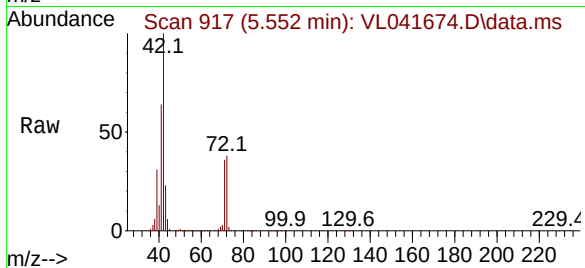
Tgt Ion: 42 Resp: 961227

Ion Ratio Lower Upper

42 100

72 37.2 29.8 44.6

71 36.8 29.4 44.2



#42

Bromodichloromethane

Concen: 10.153 ppbv

RT: 7.246 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

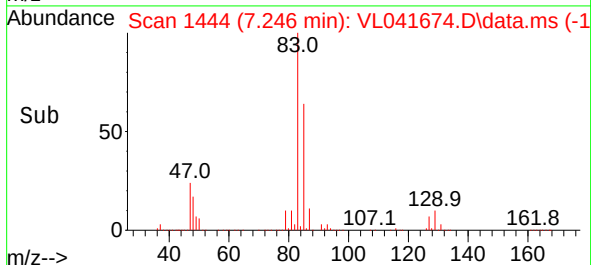
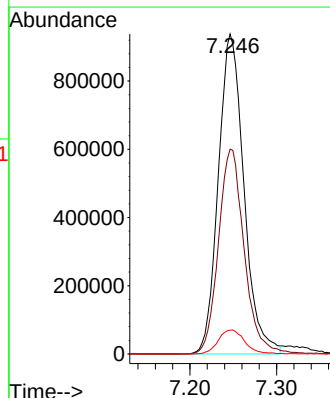
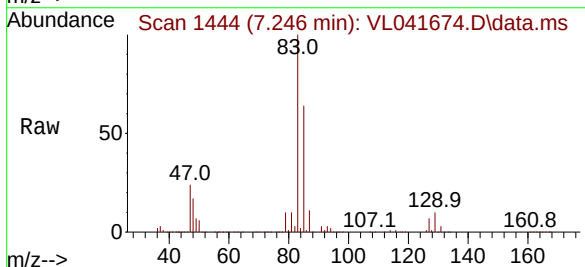
Tgt Ion: 83 Resp: 1922752

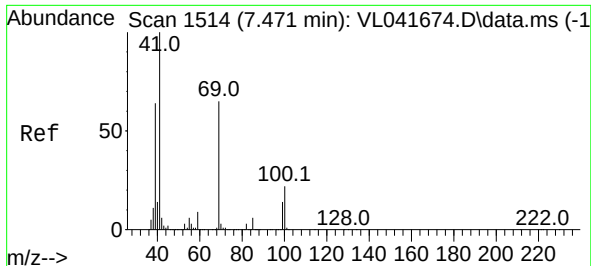
Ion Ratio Lower Upper

83 100

85 64.0 51.2 76.8

127 7.5 6.0 9.0





#43

Methyl Methacrylate

Concen: 11.071 ppbv

RT: 7.471 min Scan# 1514

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICCC010

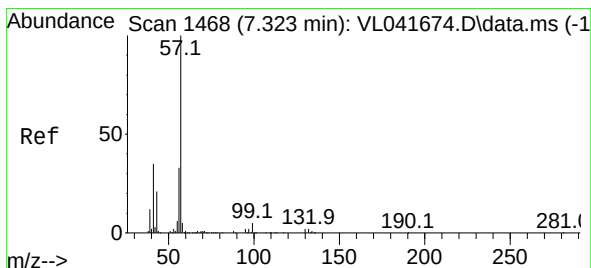
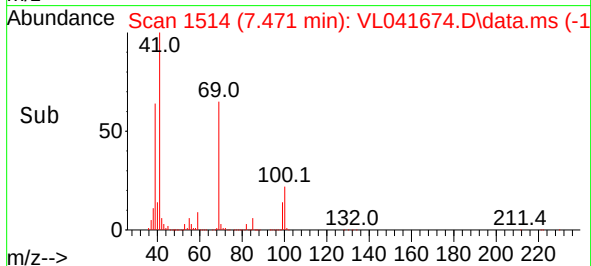
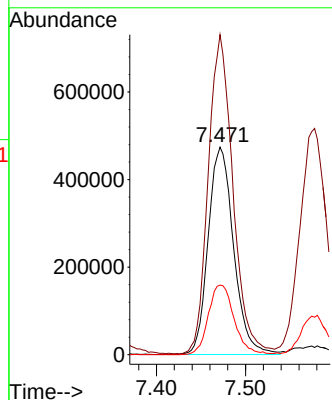
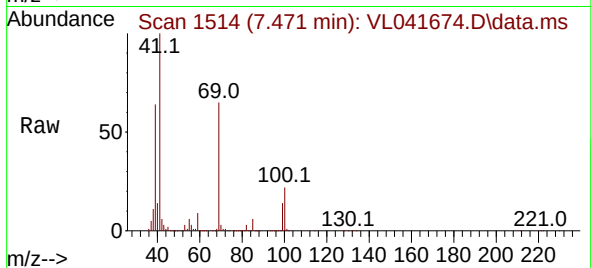
Tgt Ion: 69 Resp: 939057

Ion Ratio Lower Upper

69 100

41 149.7 119.8 179.6

100 34.1 27.3 40.9



#44

2,2,4-Trimethylpentane

Concen: 9.968 ppbv

RT: 7.323 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

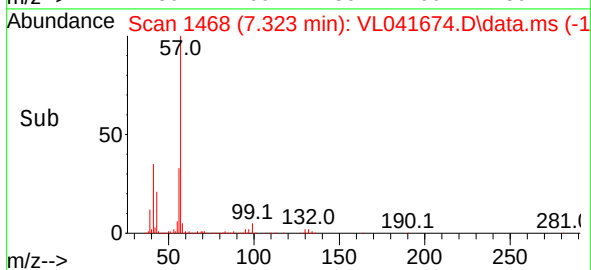
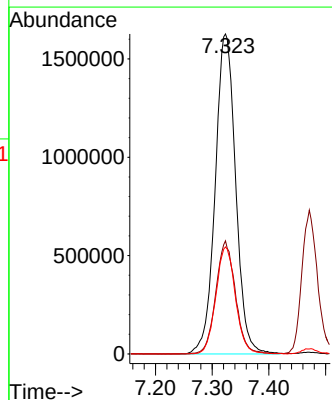
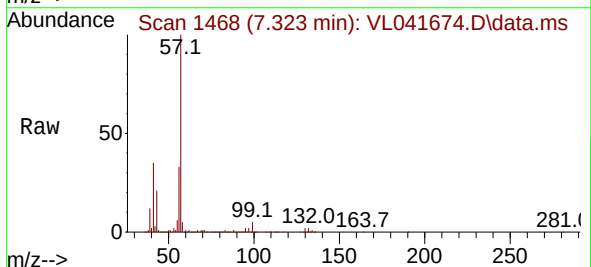
Tgt Ion: 57 Resp: 4079001

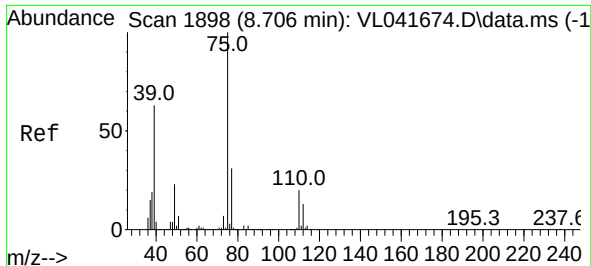
Ion Ratio Lower Upper

57 100

41 33.8 27.0 40.6

56 32.2 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 12.141 ppbv

RT: 8.706 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_1

ClientSampleId :

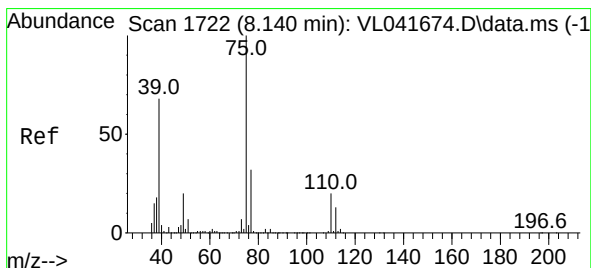
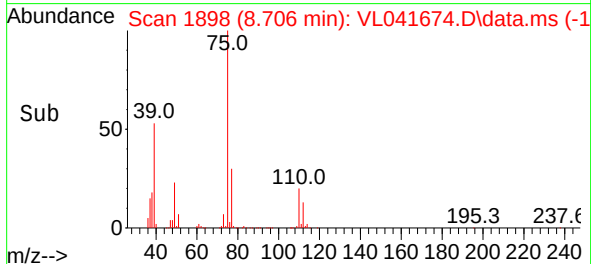
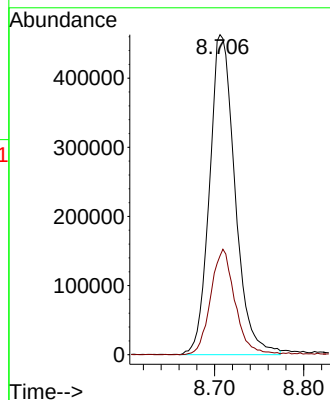
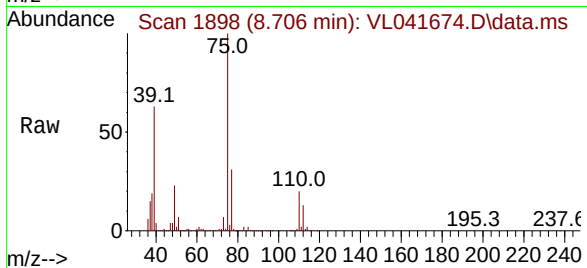
VSTDICCC010

Tgt Ion: 75 Resp: 920537

Ion Ratio Lower Upper

75 100

77 30.9 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 11.408 ppbv

RT: 8.140 min Scan# 1722

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

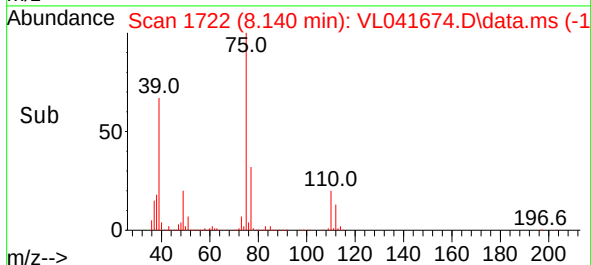
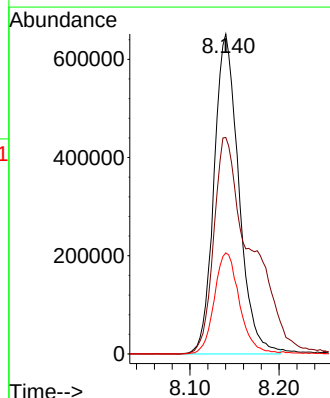
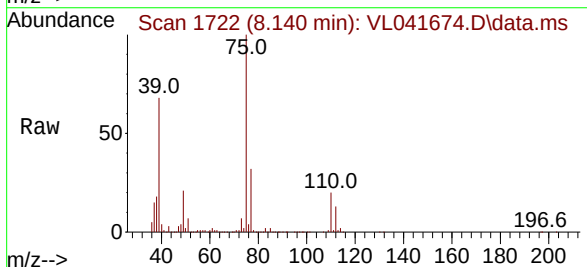
Tgt Ion: 75 Resp: 1257121

Ion Ratio Lower Upper

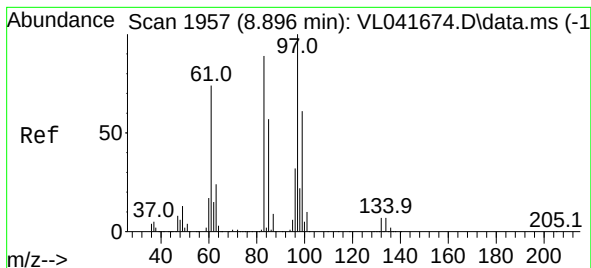
75 100

39 67.6 54.1 81.1

77 31.6 25.3 37.9



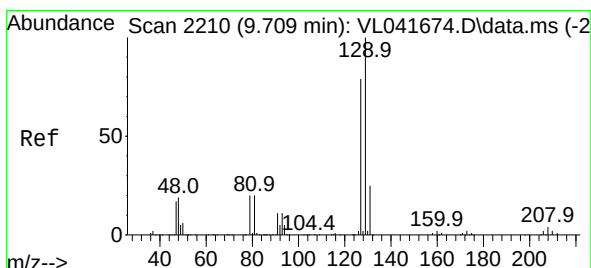
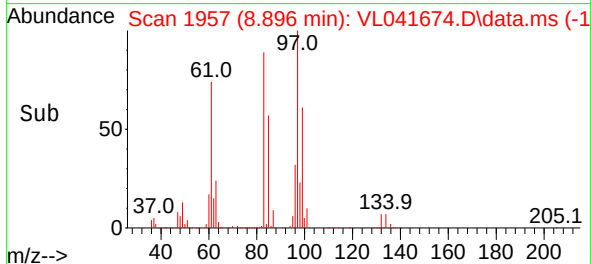
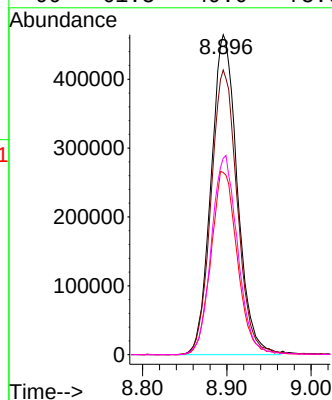
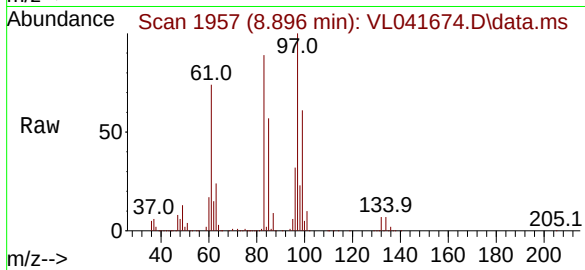




#47  
1,1,2-Trichloroethane  
Concen: 9.746 ppbv  
RT: 8.896 min Scan# 1957  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

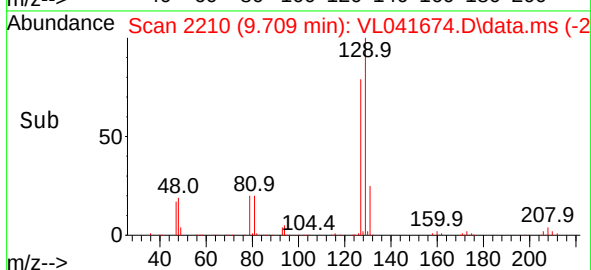
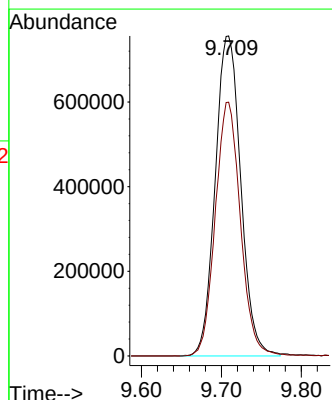
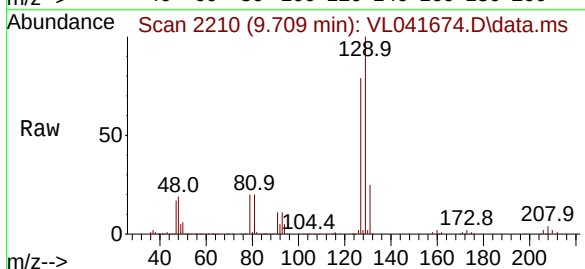
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

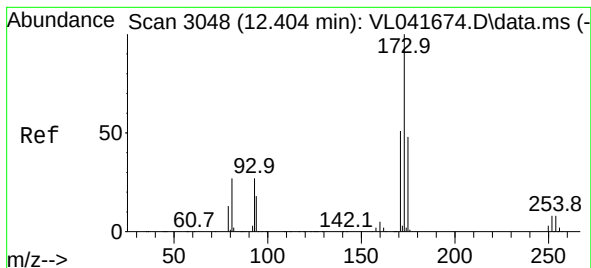
Tgt Ion: 97 Resp: 1003150  
Ion Ratio Lower Upper  
97 100  
83 88.8 71.0 106.6  
85 56.8 45.4 68.2  
99 61.3 49.0 73.6



#48  
Dibromochloromethane  
Concen: 10.690 ppbv  
RT: 9.709 min Scan# 2210  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 129 Resp: 1679053  
Ion Ratio Lower Upper  
129 100  
127 78.1 39.1 117.2





#49

Bromoform

Concen: 11.174 ppbv

RT: 12.404 min Scan# 3048

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

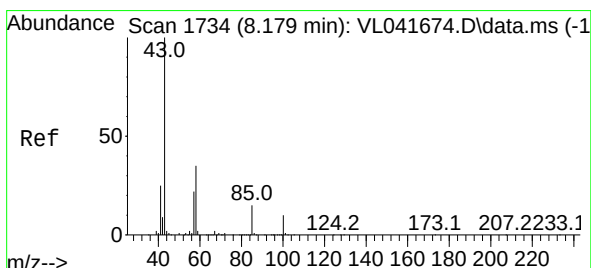
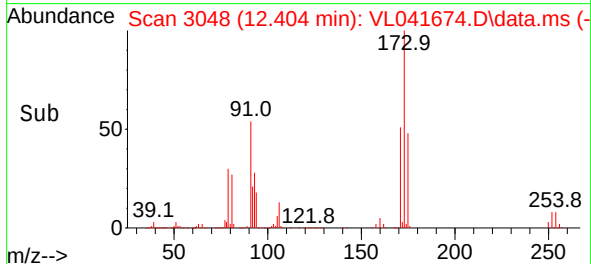
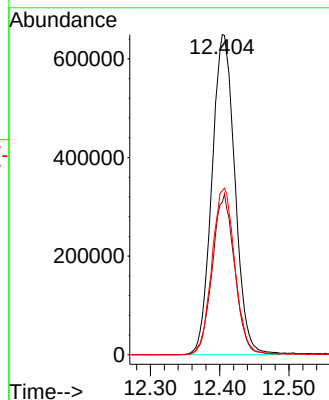
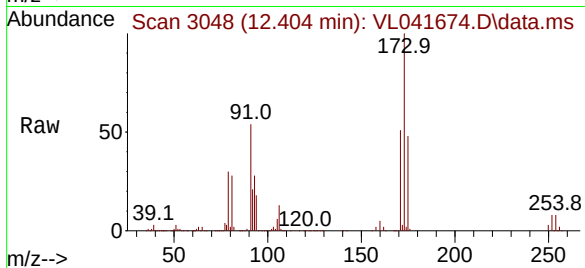
Tgt Ion:173 Resp: 1497222

Ion Ratio Lower Upper

173 100

175 49.0 39.2 58.8

171 52.1 41.7 62.5



#50

4-Methyl-2-Pentanone

Concen: 10.544 ppbv

RT: 8.179 min Scan# 1734

Delta R.T. 0.000 min

Lab File: VL041674.D

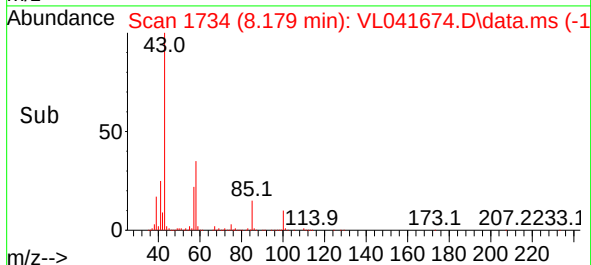
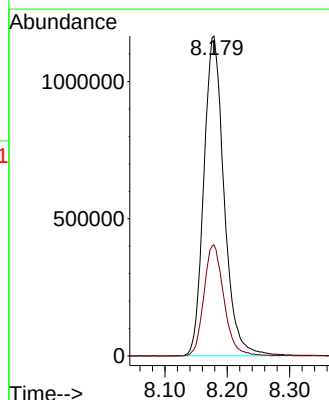
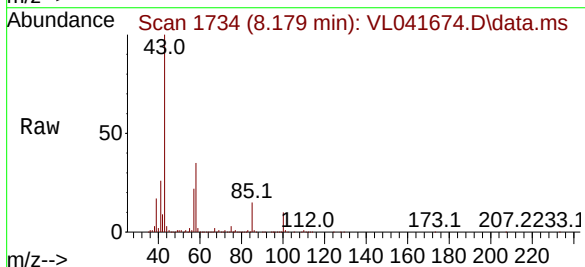
Acq: 7 Nov 2024 10:15

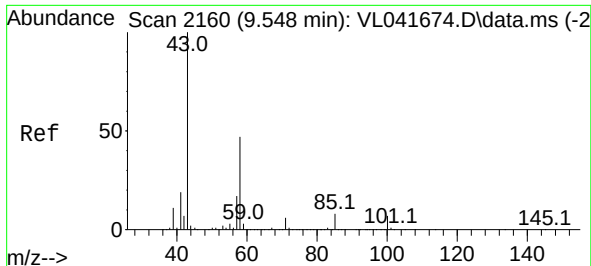
Tgt Ion: 43 Resp: 2628657

Ion Ratio Lower Upper

43 100

58 34.6 27.7 41.5

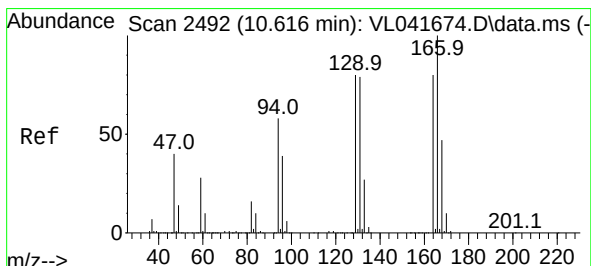
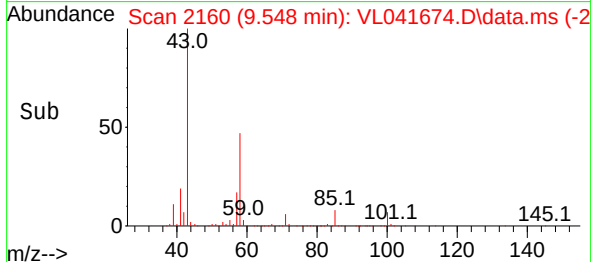
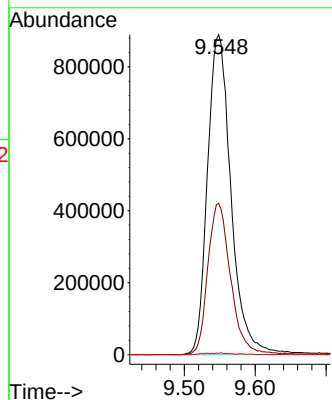
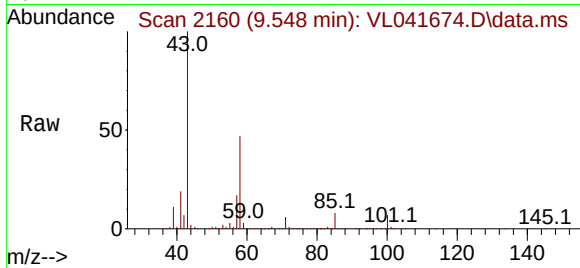




#51  
2-Hexanone  
Concen: 11.281 ppbv  
RT: 9.548 min Scan# 2160  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

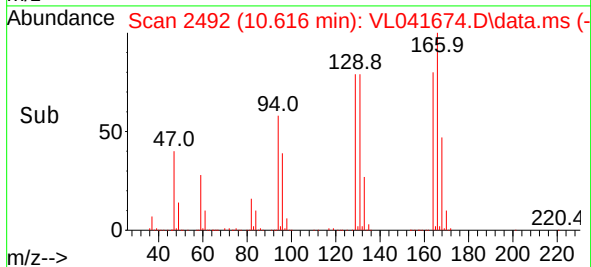
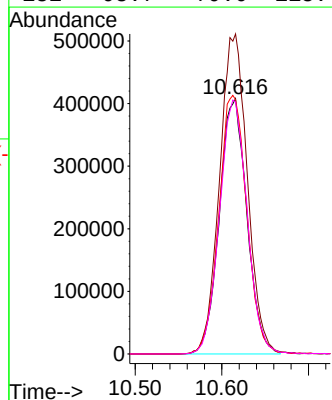
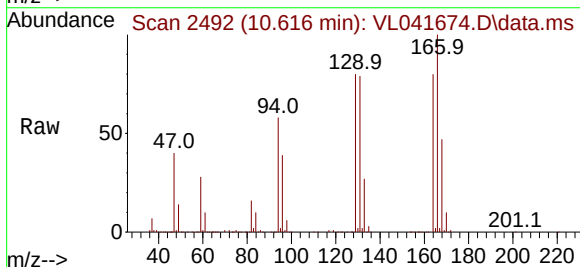
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

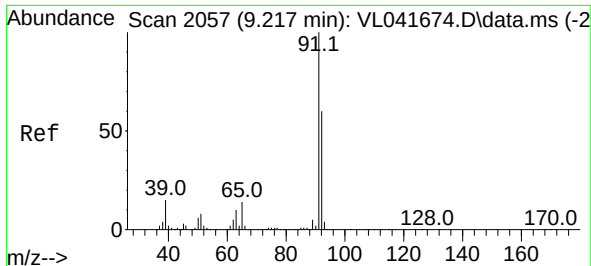
Tgt Ion: 43 Resp: 2043690  
Ion Ratio Lower Upper  
43 100  
58 46.3 37.0 55.6  
98 0.7 0.6 0.8



#52  
Tetrachloroethene  
Concen: 10.893 ppbv  
RT: 10.616 min Scan# 2492  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion:164 Resp: 899580  
Ion Ratio Lower Upper  
164 100  
166 125.3 100.2 150.4  
129 99.6 79.7 119.5  
131 98.7 79.0 118.4





#53

Toluene

Concen: 10.973 ppbv

RT: 9.217 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_1

ClientSampleId :

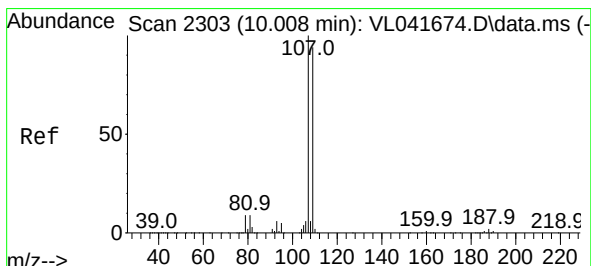
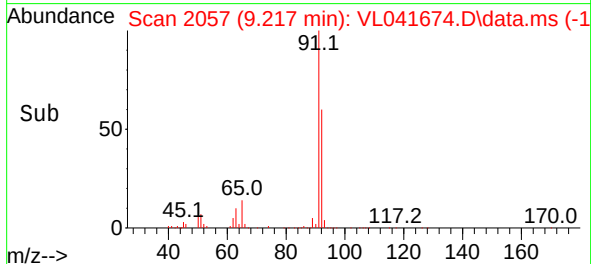
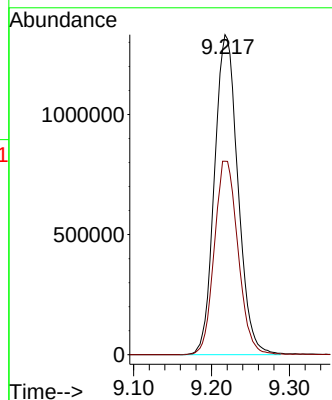
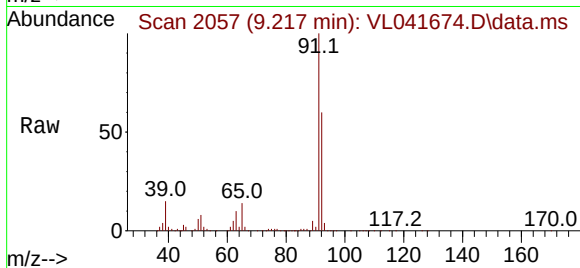
VSTDICCC010

Tgt Ion: 91 Resp: 2787590

Ion Ratio Lower Upper

91 100

92 61.2 49.0 73.4



#54

1,2-Dibromoethane

Concen: 11.262 ppbv

RT: 10.008 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VL041674.D

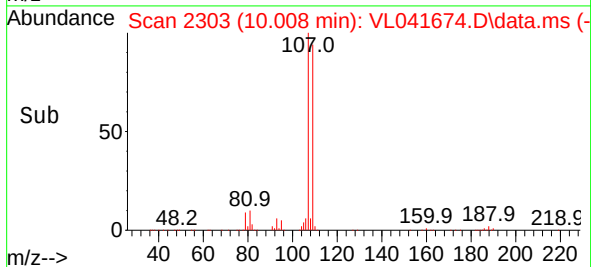
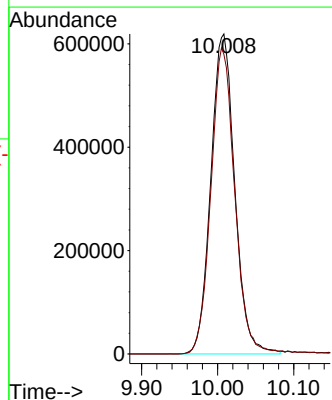
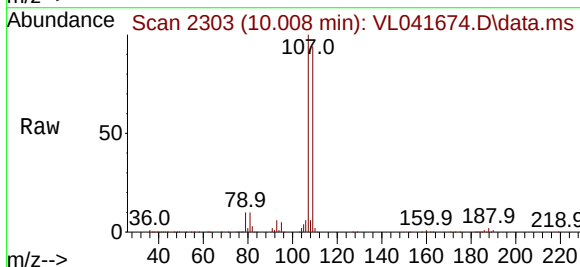
Acq: 7 Nov 2024 10:15

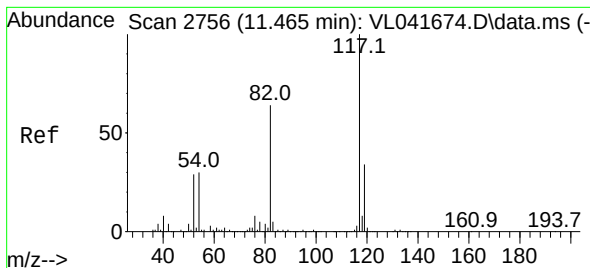
Tgt Ion: 107 Resp: 1353490

Ion Ratio Lower Upper

107 100

109 93.6 74.9 112.3

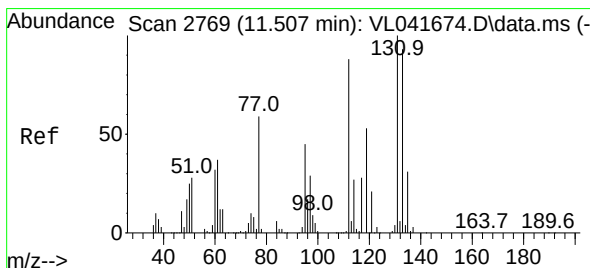
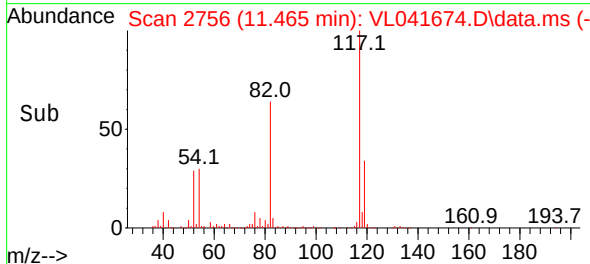
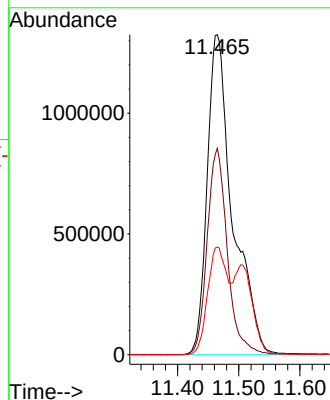
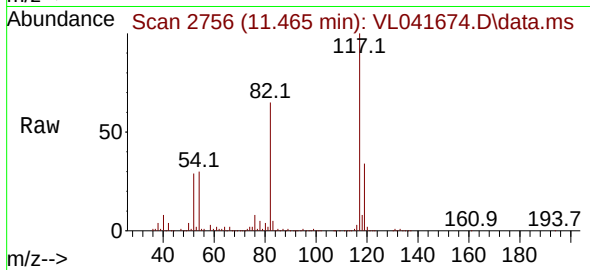




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.465 min Scan# 2756  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

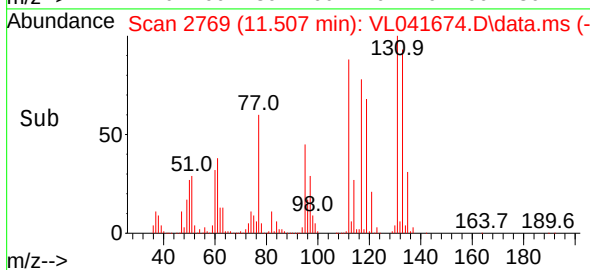
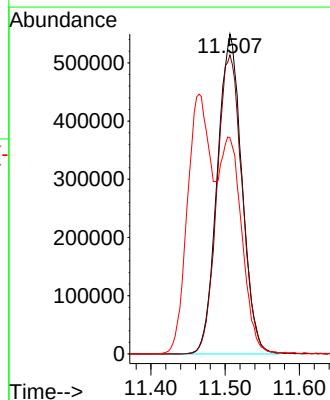
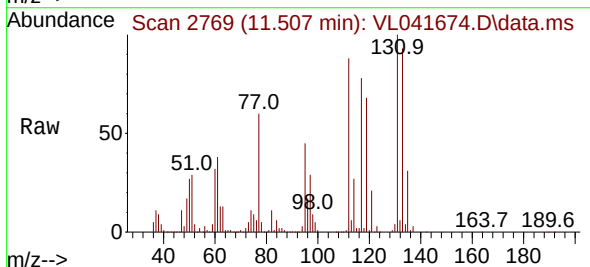
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

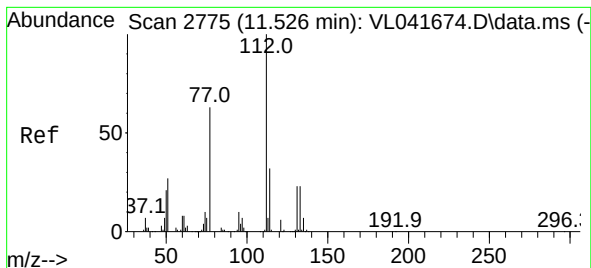
Tgt Ion:117 Resp: 3837595  
Ion Ratio Lower Upper  
117 100  
82 51.3 49.8 74.8  
119 24.9 24.2 36.4



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.924 ppbv  
RT: 11.507 min Scan# 2769  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion:131 Resp: 1266326  
Ion Ratio Lower Upper  
131 100  
133 95.6 76.5 114.7  
119 62.3 49.8 74.8

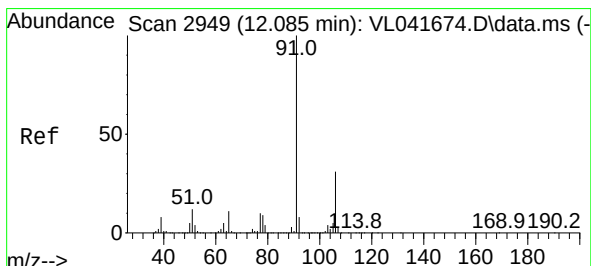
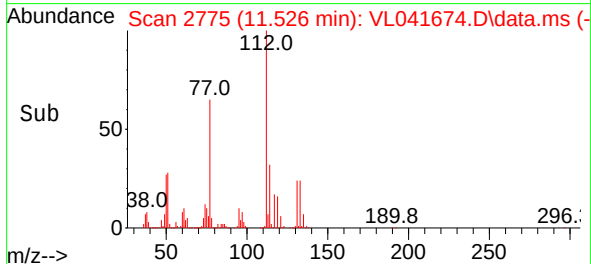
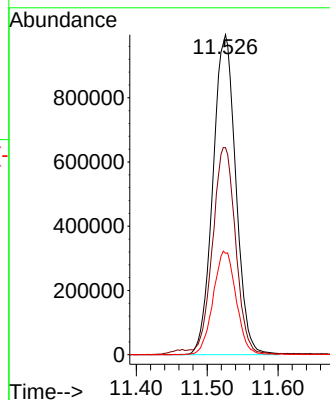
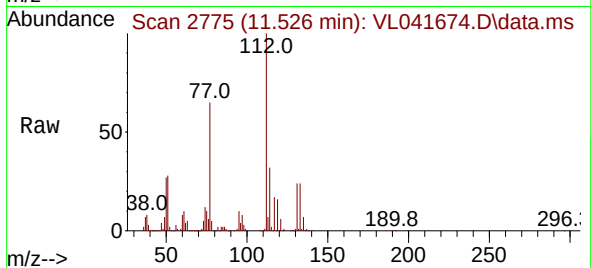




#57  
Chlorobenzene  
Concen: 7.821 ppbv  
RT: 11.526 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

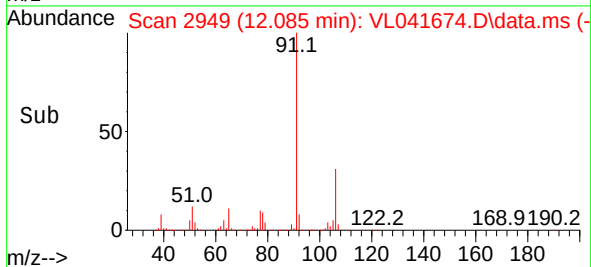
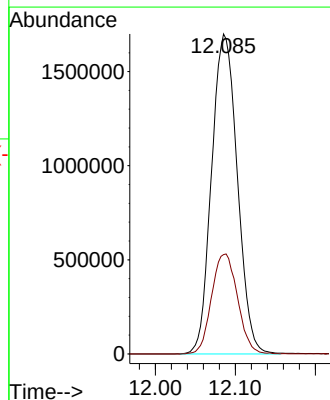
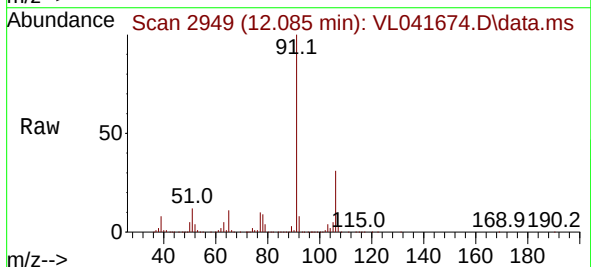
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

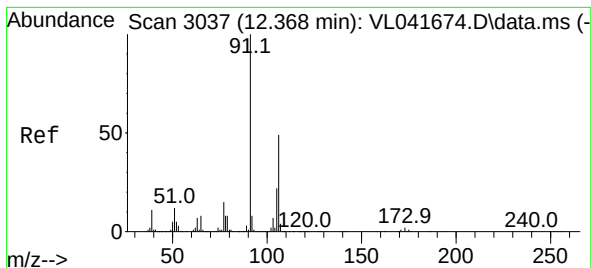
Tgt Ion:112 Resp: 2237328  
Ion Ratio Lower Upper  
112 100  
77 64.3 51.4 77.2  
114 31.6 28.4 34.8



#58  
Ethyl Benzene  
Concen: 8.928 ppbv  
RT: 12.085 min Scan# 2949  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 91 Resp: 3795372  
Ion Ratio Lower Upper  
91 100  
106 31.1 24.9 37.3

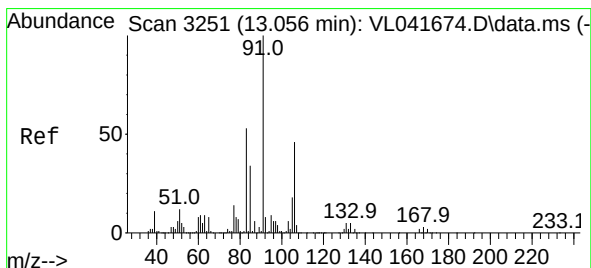
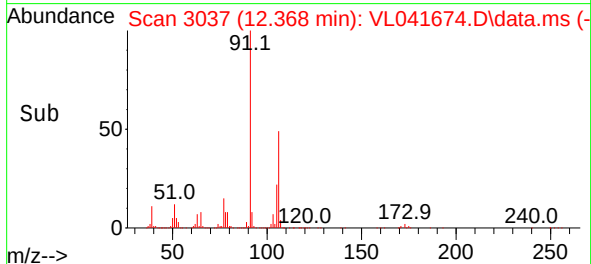
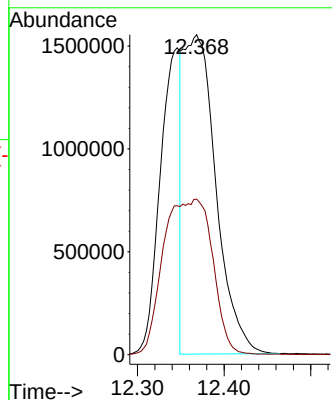
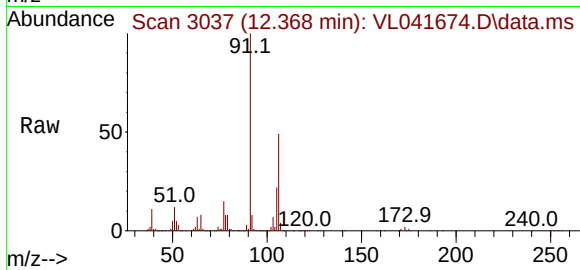




#59  
m/p-Xylene  
Concen: 10.651 ppbv  
RT: 12.368 min Scan# 3037  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

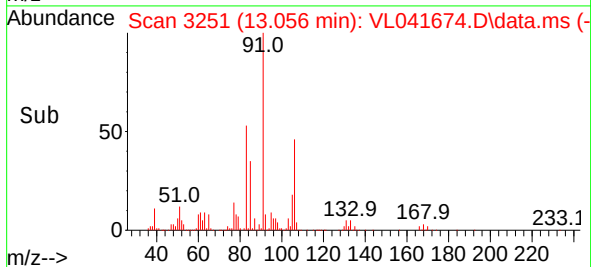
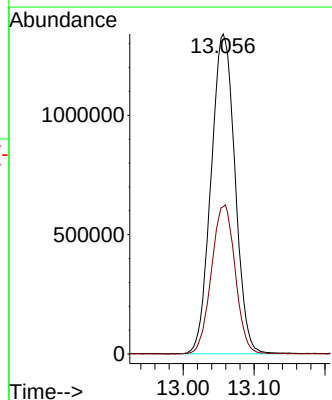
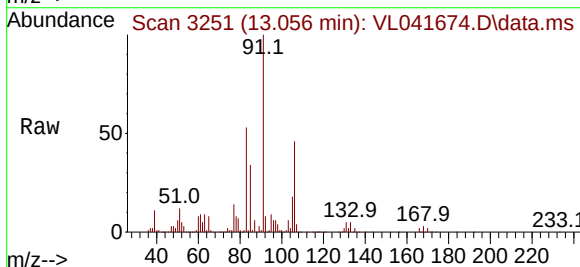
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

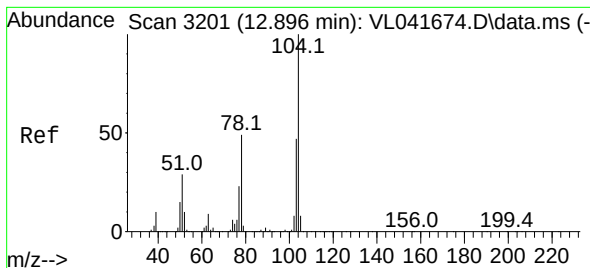
Tgt Ion: 91 Resp: 4050379  
Ion Ratio Lower Upper  
91 100  
106 73.8 36.9 55.3#



#60  
o-Xylene  
Concen: 8.672 ppbv  
RT: 13.056 min Scan# 3251  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 91 Resp: 3148609  
Ion Ratio Lower Upper  
91 100  
106 46.4 23.2 69.6





#61

Styrene

Concen: 10.115 ppbv

RT: 12.896 min Scan# 3201

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

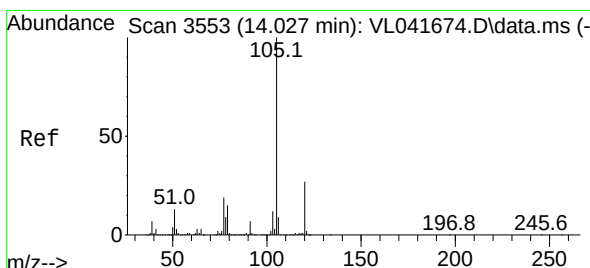
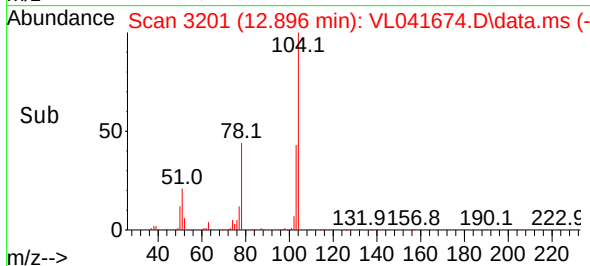
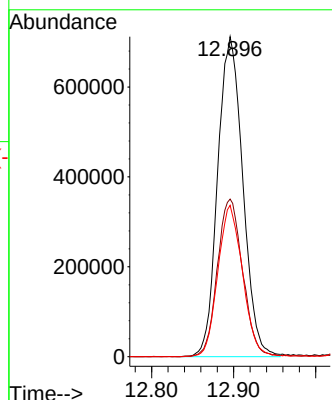
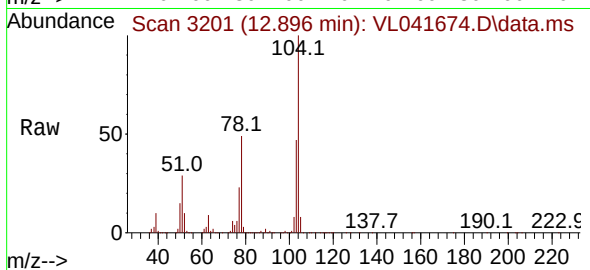
Tgt Ion:104 Resp: 1515741

Ion Ratio Lower Upper

104 100

78 49.8 39.8 59.8

103 46.7 37.4 56.0



#62

Isopropylbenzene

Concen: 8.291 ppbv

RT: 14.027 min Scan# 3553

Delta R.T. 0.000 min

Lab File: VL041674.D

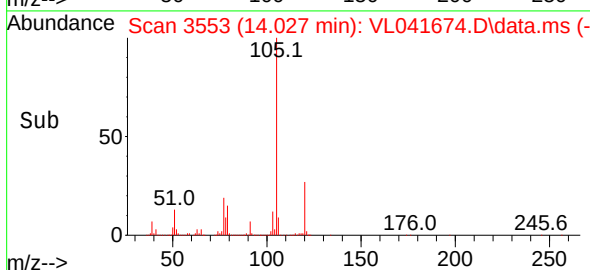
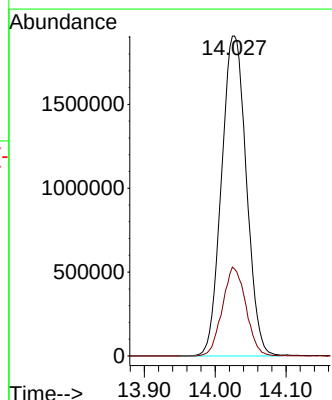
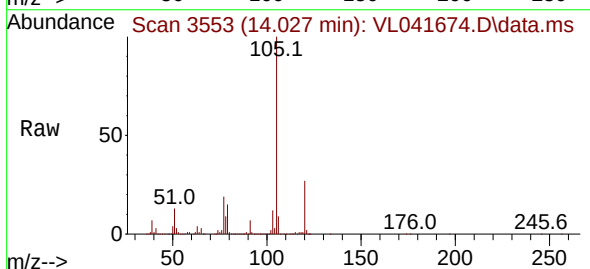
Acq: 7 Nov 2024 10:15

Tgt Ion:105 Resp: 4647017

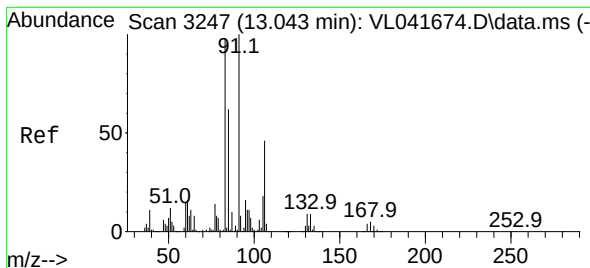
Ion Ratio Lower Upper

105 100

120 26.4 21.1 31.7



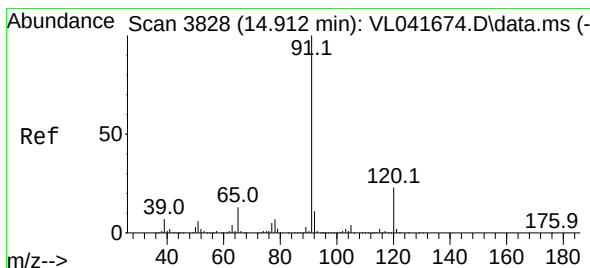
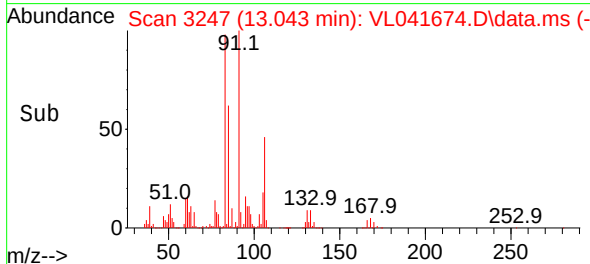
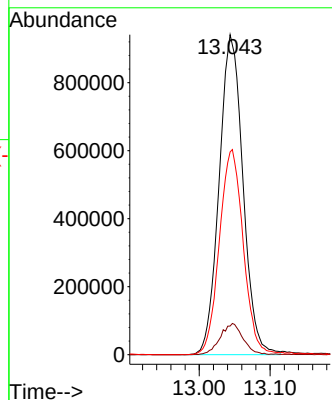
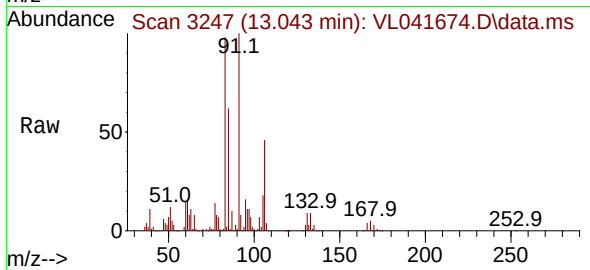




#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.302 ppbv  
RT: 13.043 min Scan# 3247  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

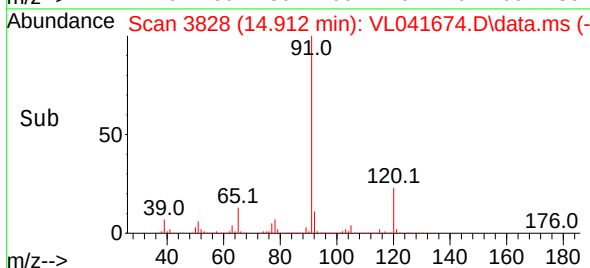
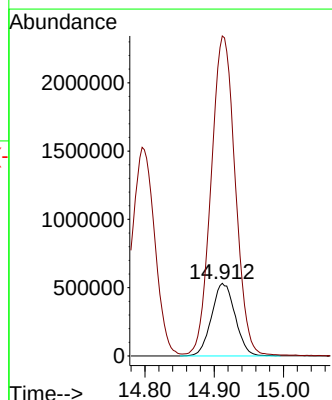
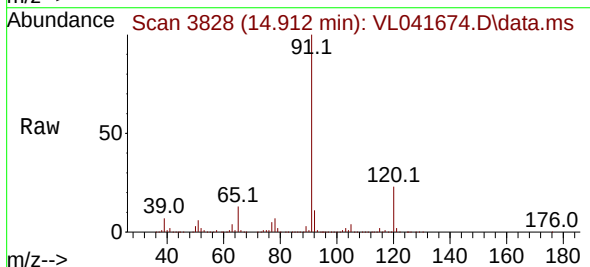
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

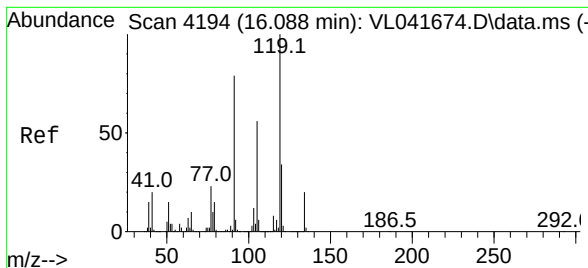
Tgt Ion: 83 Resp: 2194609  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 65.3 32.6 98.0



#64  
n-propylbenzene  
Concen: 8.577 ppbv  
RT: 14.912 min Scan# 3828  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 120 Resp: 1256955  
Ion Ratio Lower Upper  
120 100  
91 453.0 362.4 543.6

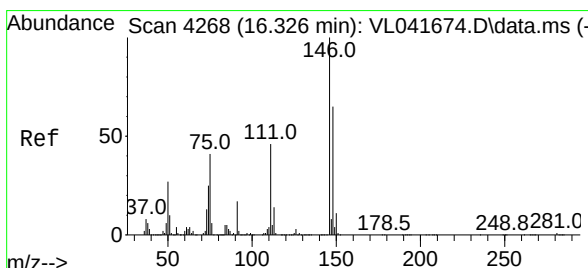
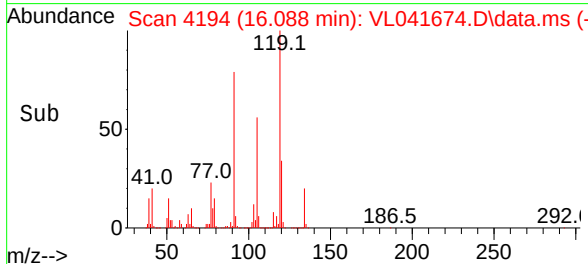
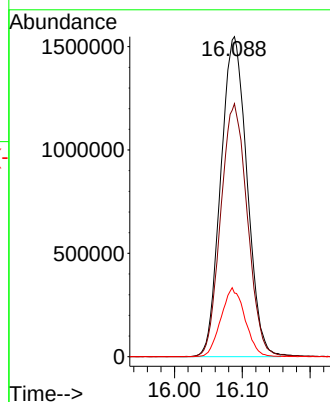
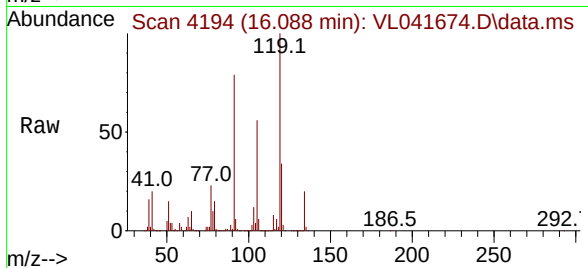




#65  
tert-Butylbenzene  
Concen: 8.263 ppbv  
RT: 16.088 min Scan# 4194  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

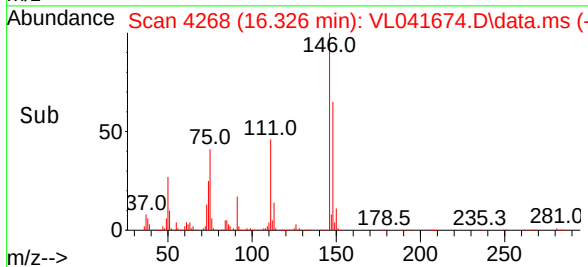
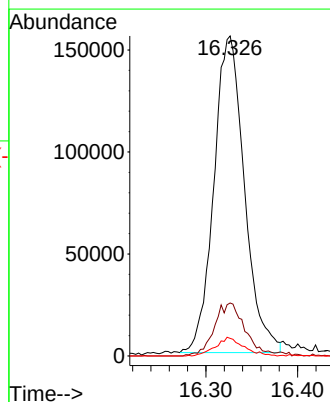
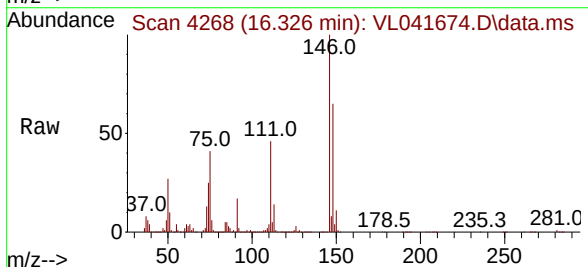
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

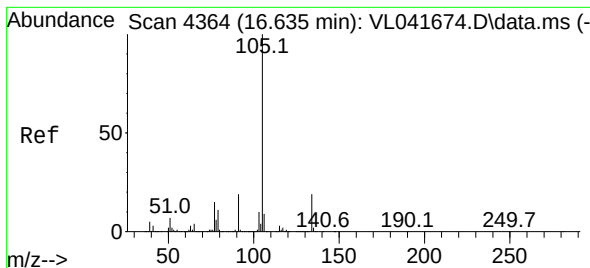
Tgt Ion:119 Resp: 4162243  
Ion Ratio Lower Upper  
119 100  
91 80.4 64.3 96.5  
134 19.8 15.8 23.8



#66  
Benzyl Chloride  
Concen: 9.917 ppbv  
RT: 16.326 min Scan# 4268  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 91 Resp: 359794  
Ion Ratio Lower Upper  
91 100  
126 17.2 13.8 20.6  
128 5.4 4.3 6.5





#67

sec-Butylbenzene

Concen: 8.251 ppbv

RT: 16.635 min Scan# 4364

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_1

ClientSampleId :

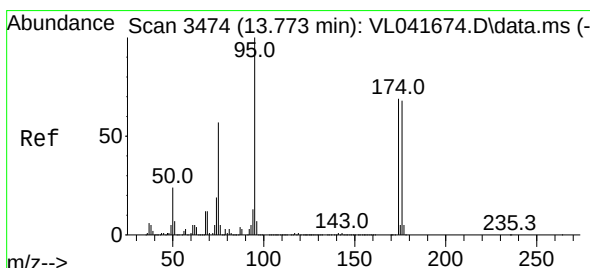
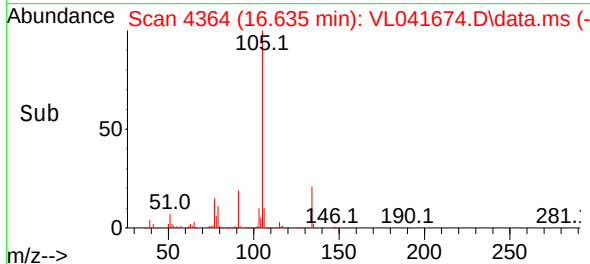
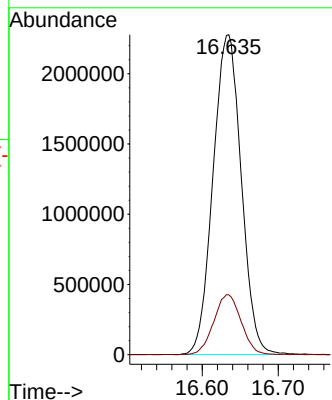
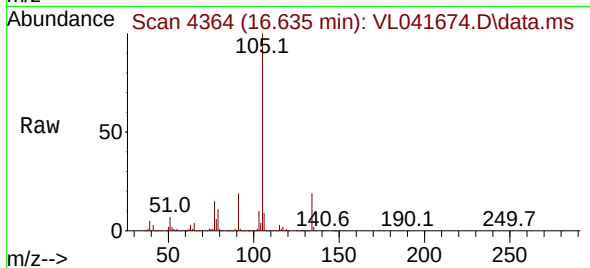
VSTDICCC010

Tgt Ion:105 Resp: 5857608

Ion Ratio Lower Upper

105 100

134 18.3 14.6 22.0



#68

1-Bromo-4-Fluorobenzene

Concen: 8.388 ppbv

RT: 13.773 min Scan# 3474

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

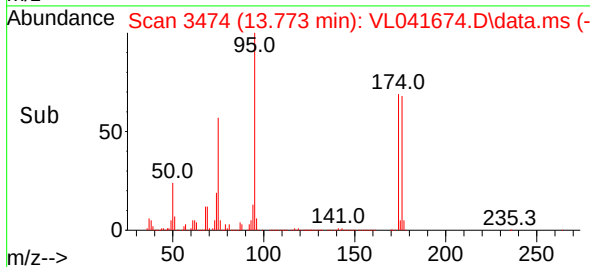
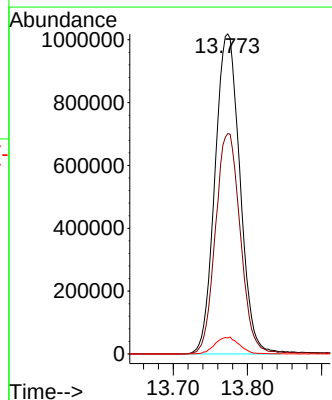
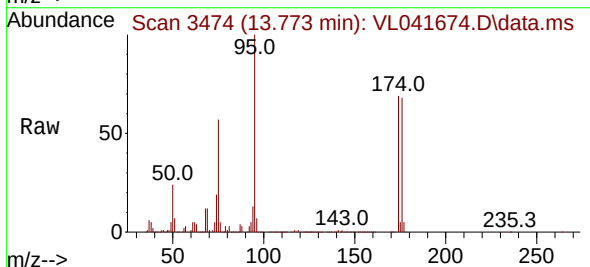
Tgt Ion: 95 Resp: 2380541

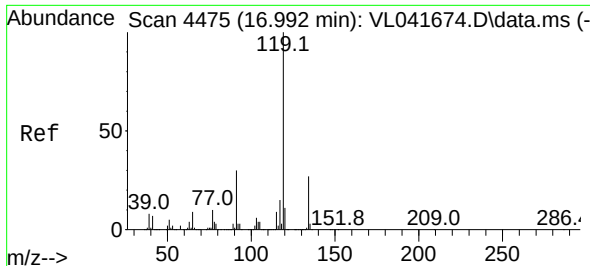
Ion Ratio Lower Upper

95 100

174 69.5 55.6 83.4

175 5.2 4.2 6.2





#69

p-Isopropyltoluene

Concen: 8.569 ppbv

RT: 16.992 min Scan# 4475

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

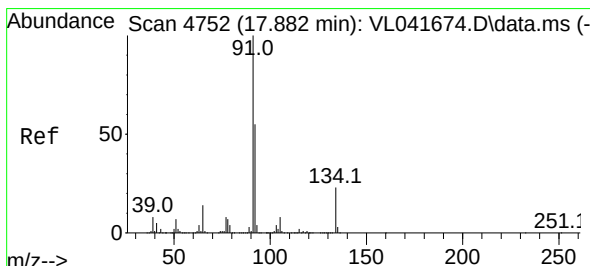
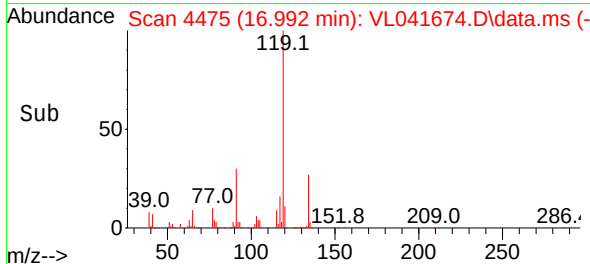
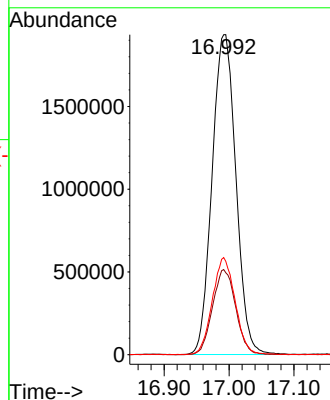
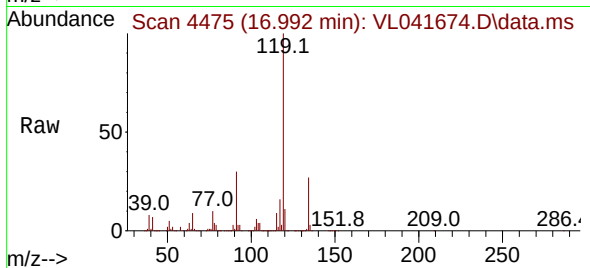
Tgt Ion:119 Resp: 4920309

Ion Ratio Lower Upper

119 100

134 26.0 20.8 31.2

91 29.0 23.2 34.8



#70

n-Butylbenzene

Concen: 8.531 ppbv

RT: 17.882 min Scan# 4752

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

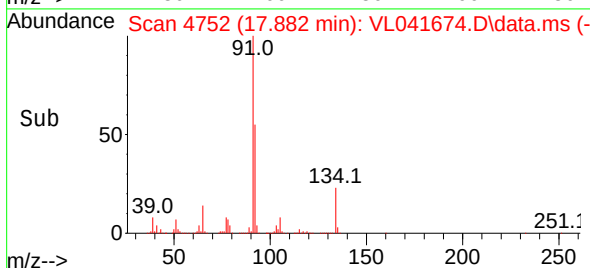
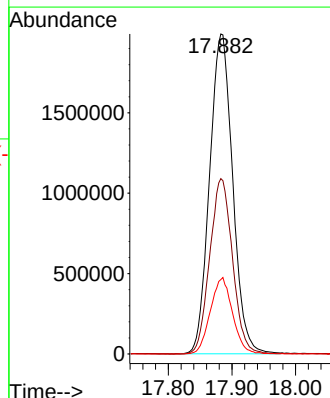
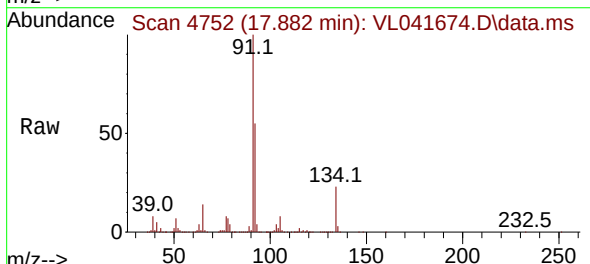
Tgt Ion: 91 Resp: 5021145

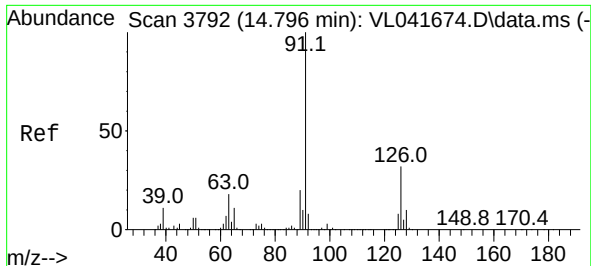
Ion Ratio Lower Upper

91 100

92 54.1 43.3 64.9

134 23.0 18.4 27.6

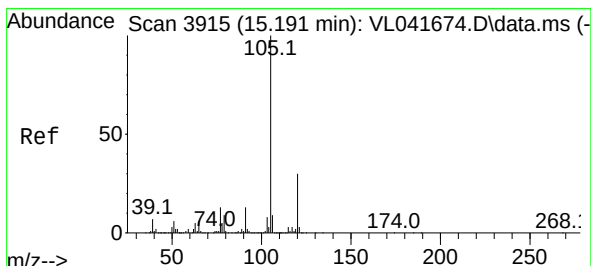
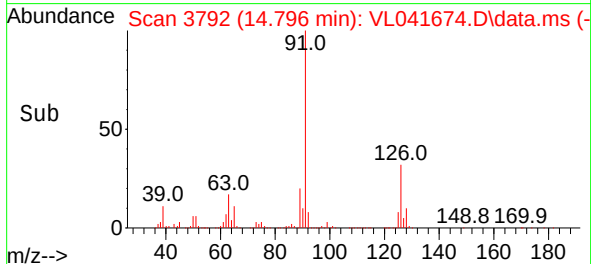
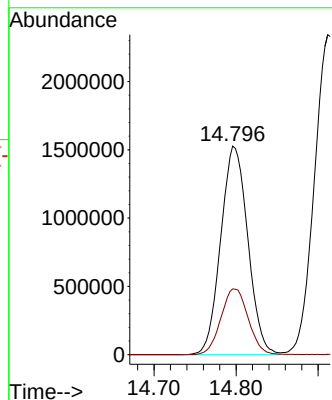
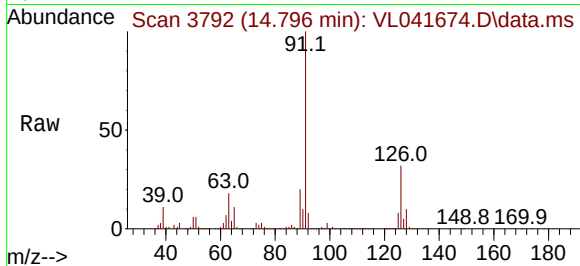




#71  
2-Chlorotoluene  
Concen: 8.656 ppbv  
RT: 14.796 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

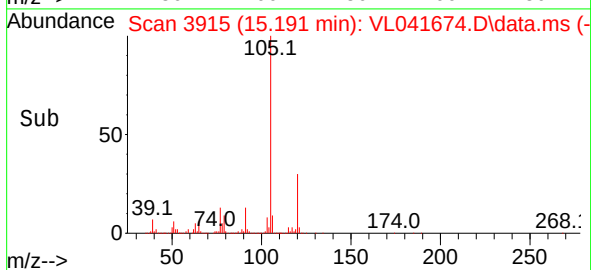
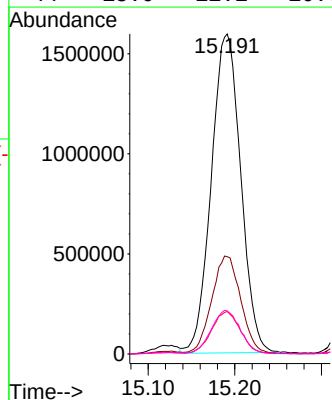
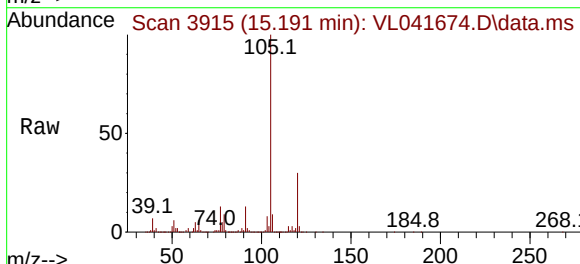
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

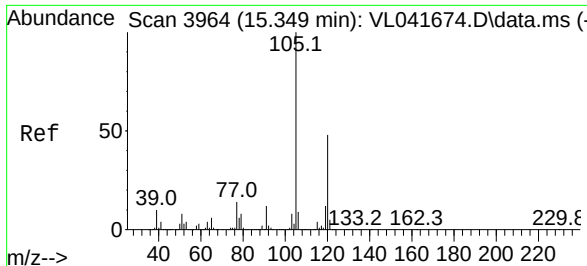
Tgt Ion: 91 Resp: 3508288  
Ion Ratio Lower Upper  
91 100  
126 31.9 12.8 51.0



#72  
4-Ethyltoluene  
Concen: 8.925 ppbv  
RT: 15.191 min Scan# 3915  
Delta R.T. 0.000 min  
Lab File: VL041674.D  
Acq: 7 Nov 2024 10:15

Tgt Ion: 105 Resp: 3763123  
Ion Ratio Lower Upper  
105 100  
120 31.2 25.0 37.4  
91 13.2 10.6 15.8  
77 13.9 11.1 16.7

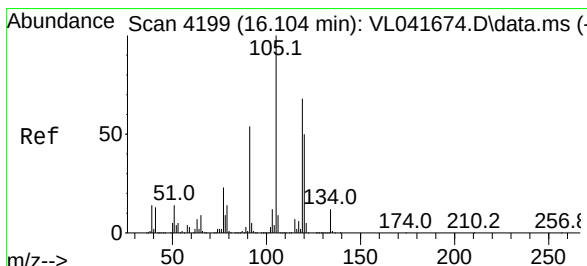
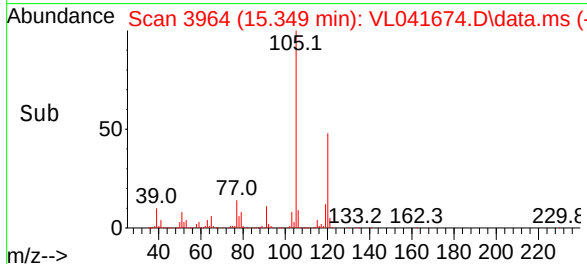
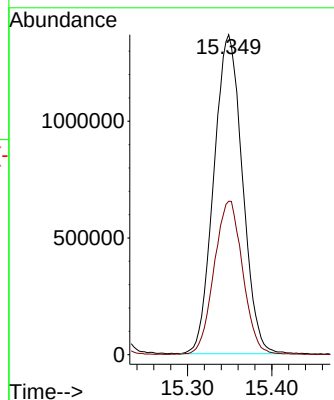
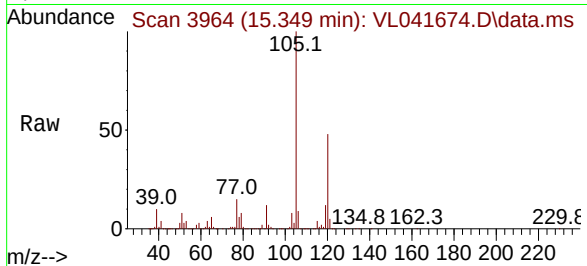




#73  
 1,3,5-Trimethylbenzene  
 Concen: 8.703 ppbv  
 RT: 15.349 min Scan# 3964  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

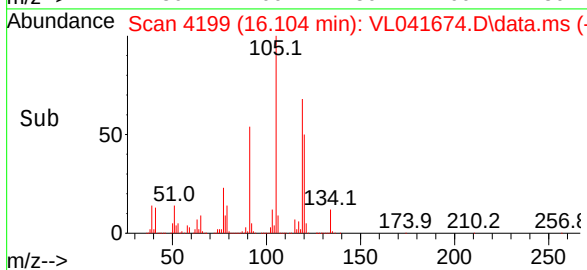
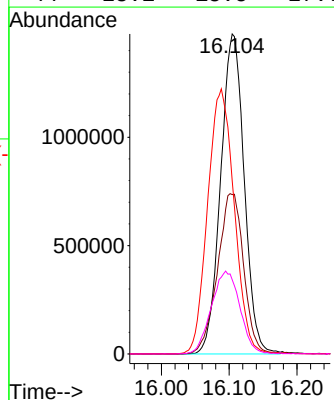
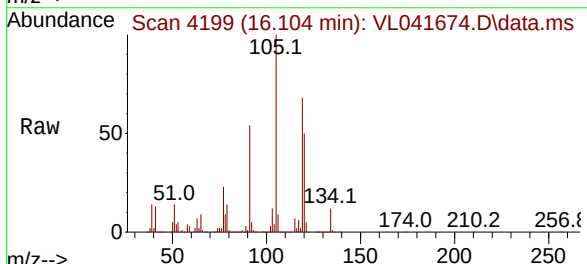
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

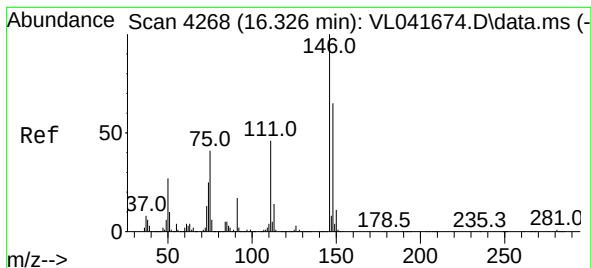
Tgt Ion:105 Resp: 3217635  
 Ion Ratio Lower Upper  
 105 100  
 120 48.0 38.4 57.6



#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.285 ppbv  
 RT: 16.104 min Scan# 4199  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

Tgt Ion:105 Resp: 3563067  
 Ion Ratio Lower Upper  
 105 100  
 120 49.8 39.8 59.8  
 91 54.0 43.2 64.8  
 77 23.1 18.5 27.7





#75

1,3-Dichlorobenzene

Concen: 8.255 ppbv

RT: 16.326 min Scan# 4268

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

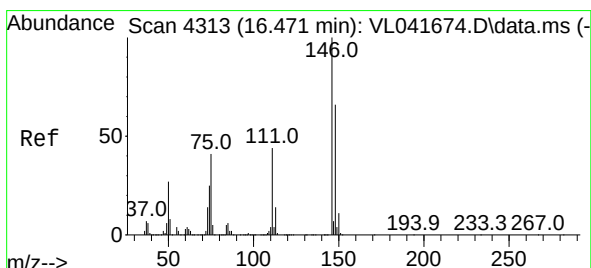
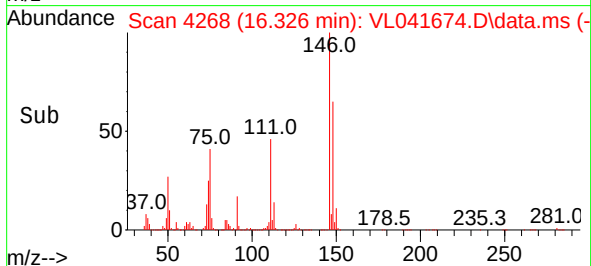
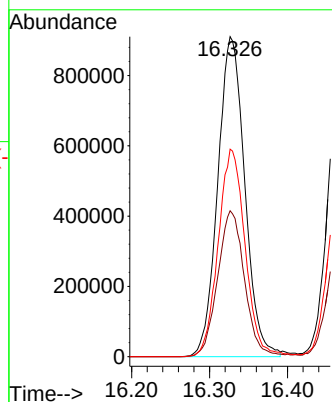
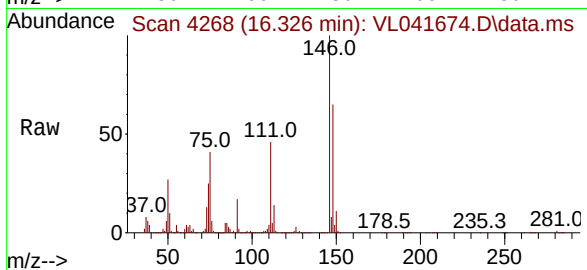
Tgt Ion:146 Resp: 2192903

Ion Ratio Lower Upper

146 100

111 45.5 22.8 68.3

148 64.7 32.4 97.0



#76

1,4-Dichlorobenzene

Concen: 8.216 ppbv

RT: 16.471 min Scan# 4313

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

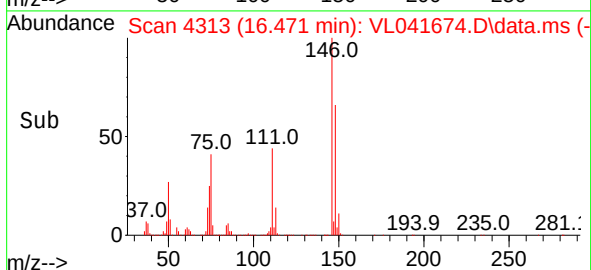
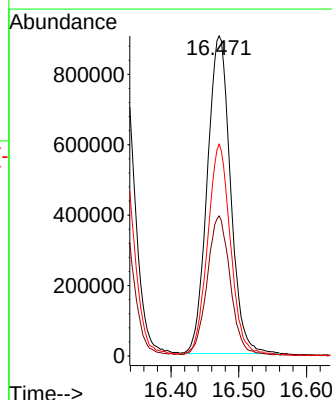
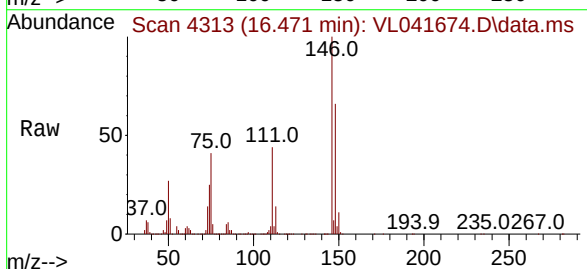
Tgt Ion:146 Resp: 2144446

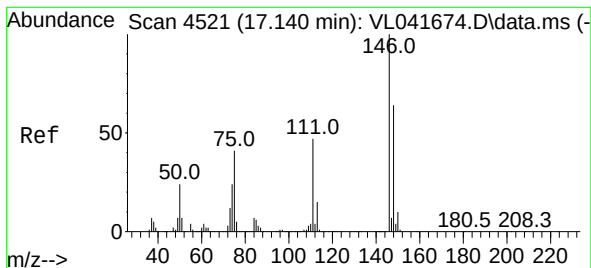
Ion Ratio Lower Upper

146 100

111 44.2 22.1 66.3

148 66.5 33.3 99.8





#77

1,2-Dichlorobenzene

Concen: 8.107 ppbv

RT: 17.140 min Scan# 4521

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

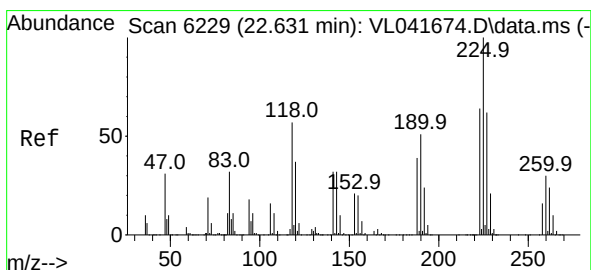
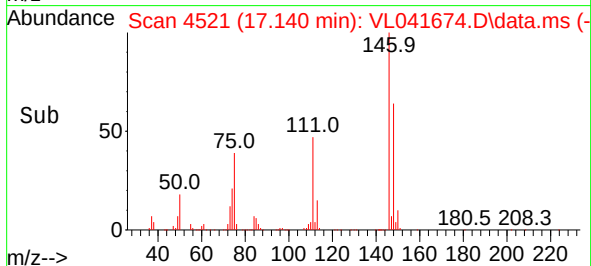
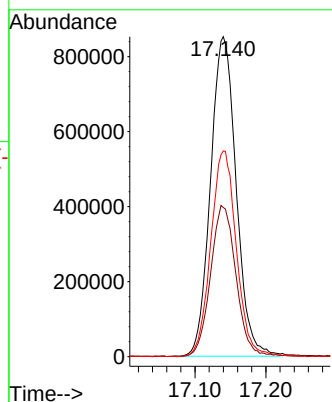
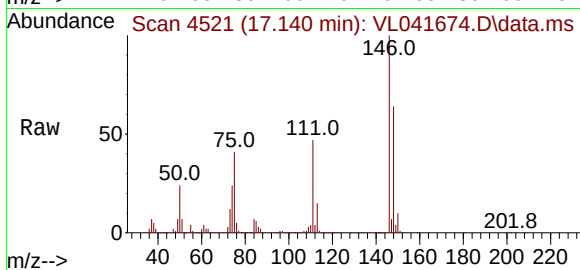
Tgt Ion:146 Resp: 2138612

Ion Ratio Lower Upper

146 100

111 46.9 23.4 70.3

148 64.3 32.1 96.5



#78

Hexachloro-1,3-Butadiene

Concen: 6.753 ppbv

RT: 22.631 min Scan# 6229

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

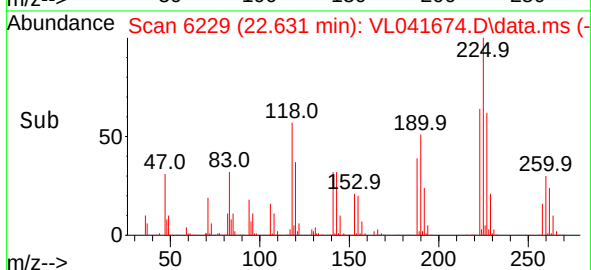
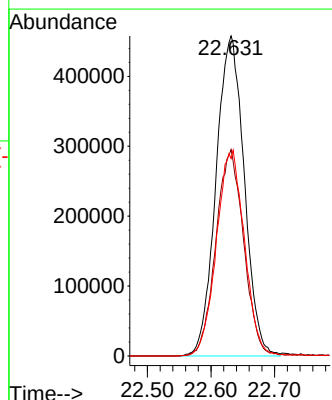
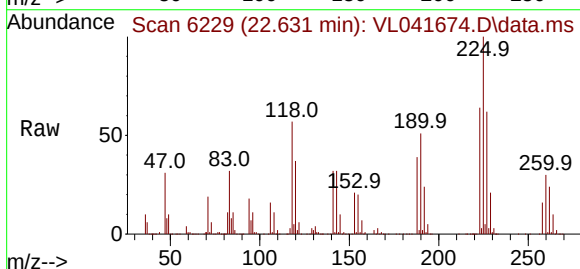
Tgt Ion:225 Resp: 1409325

Ion Ratio Lower Upper

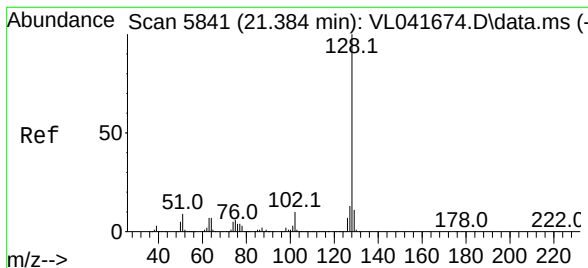
225 100

223 63.9 51.1 76.7

227 64.1 51.3 76.9







#79

Naphthalene

Concen: 10.463 ppbv

RT: 21.384 min Scan# 5841

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICCC010

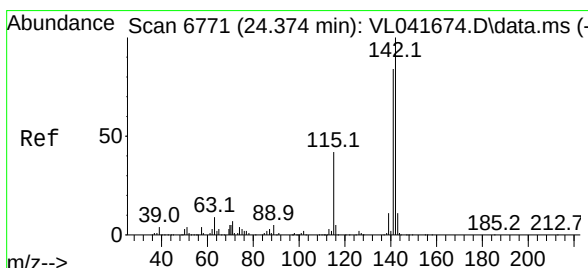
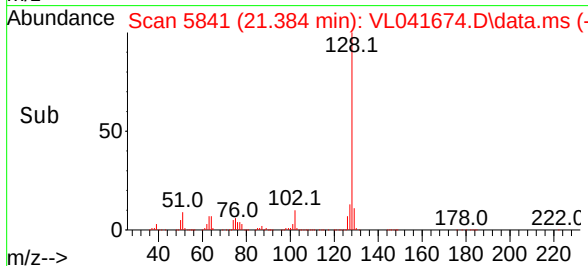
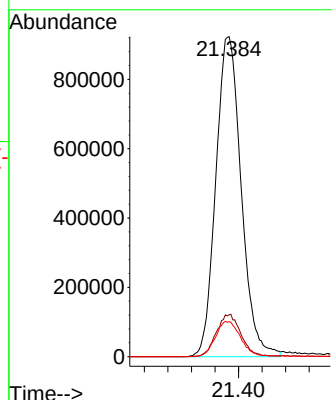
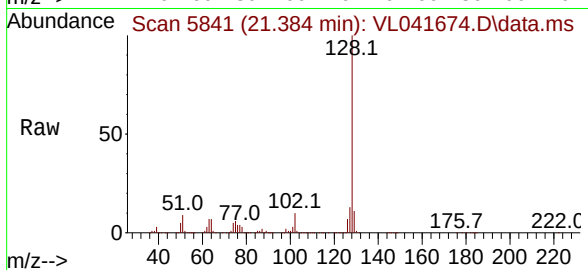
Tgt Ion:128 Resp: 2767333

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

129 10.9 8.7 13.1



#80

Naphthalene,2-methyl-

Concen: 9.497 ppbv

RT: 24.374 min Scan# 6771

Delta R.T. 0.000 min

Lab File: VL041674.D

Acq: 7 Nov 2024 10:15

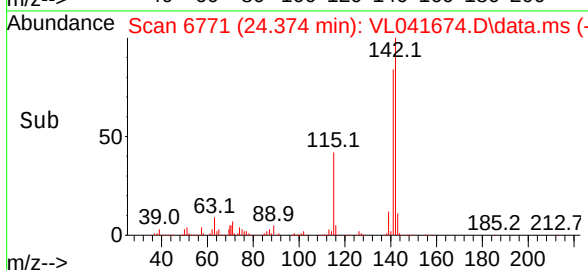
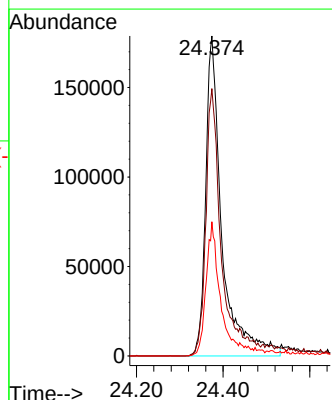
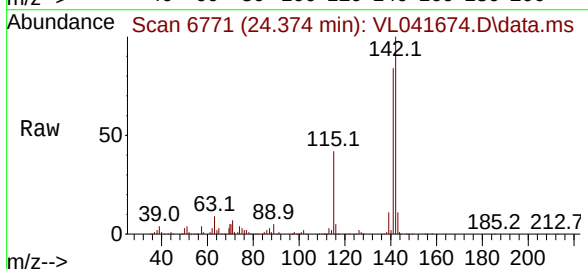
Tgt Ion:142 Resp: 466005

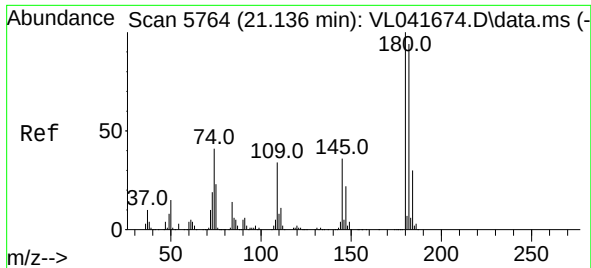
Ion Ratio Lower Upper

142 100

141 85.1 68.1 102.1

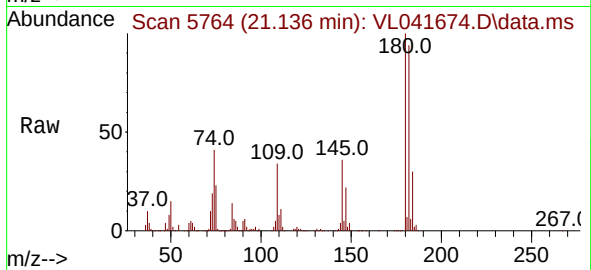
115 41.4 33.1 49.7



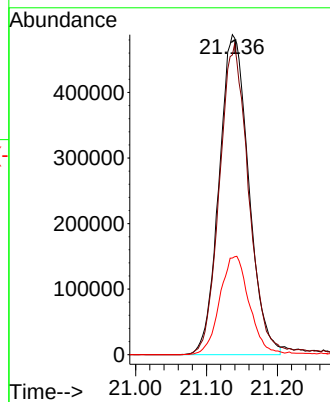
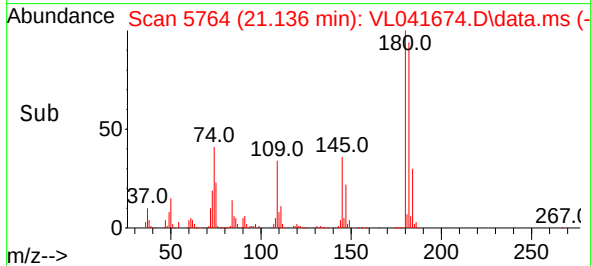


#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.603 ppbv  
 RT: 21.136 min Scan# 51  
 Delta R.T. 0.000 min  
 Lab File: VL041674.D  
 Acq: 7 Nov 2024 10:15

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 180   | Resp: | 1415249 |
| Ion      | Ratio | Lower | Upper   |
| 180      | 100   |       |         |
| 182      | 97.7  | 78.2  | 117.2   |
| 184      | 31.2  | 25.0  | 37.4    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041675.D  
 Acq On : 7 Nov 2024 10:55  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Nov 08 00:09:49 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.185  | 49   | 1208732  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.648  | 114  | 3351063  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.462 | 117  | 3155486  | 10.000 | ppbv  | # 0.00   |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 13.773 | 95    | 2278471  | 9.764    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.600% |

| Target Compounds              |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.726 | 85  | 514444 | 2.355 | ppbv   | 97     |
| 3) Chlorodifluoromethane      | 2.671 | 51  | 328832 | 2.088 | ppbv   | 99     |
| 4) Chloromethane              | 2.806 | 50  | 174215 | 2.088 | ppbv   | 98     |
| 5) Vinyl Chloride             | 2.915 | 62  | 164345 | 2.174 | ppbv   | 95     |
| 6) Bromomethane               | 3.115 | 94  | 83930  | 2.108 | ppbv   | 95     |
| 7) Chloroethane               | 3.192 | 64  | 56344  | 2.057 | ppbv   | 95     |
| 8) Dichlorotetrafluoroethane  | 2.851 | 85  | 407437 | 2.089 | ppbv   | 100    |
| 9) Propene                    | 2.690 | 41  | 145858 | 2.125 | ppbv   | 96     |
| 10) Heptane                   | 7.574 | 43  | 329781 | 2.145 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 3.558 | 101 | 404483 | 2.126 | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluo... | 4.060 | 101 | 293463 | 2.122 | ppbv   | 100    |
| 13) Ethanol                   | 3.253 | 45  | 6143   | 1.439 | ppbv # | 40     |
| 14) Bromoethene               | 3.362 | 108 | 115140 | 2.071 | ppbv   | 97     |
| 15) Acetone                   | 3.468 | 43  | 325763 | 2.190 | ppbv   | 98     |
| 16) 1,3-Butadiene             | 2.980 | 39  | 166496 | 2.232 | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 3.880 | 59  | 250452 | 1.919 | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 3.877 | 96  | 125850 | 2.075 | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.581 | 45  | 145112 | 2.015 | ppbv # | 98     |
| 20) Methylene Chloride        | 3.928 | 84  | 107956 | 1.972 | ppbv   | 95     |
| 21) Allyl Chloride            | 3.992 | 41  | 188103 | 2.046 | ppbv   | 93     |
| 22) trans-1,2-Dichloroethene  | 4.439 | 96  | 127951 | 2.114 | ppbv   | 97     |
| 23) Vinyl Acetate             | 4.623 | 43  | 146592 | 2.095 | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 4.555 | 63  | 311096 | 2.311 | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.201 | 43  | 648134 | 2.105 | ppbv   | 99     |
| 26) Hexane                    | 5.205 | 57  | 247802 | 2.095 | ppbv   | 93     |
| 27) Carbon Disulfide          | 4.121 | 76  | 275871 | 2.076 | ppbv # | 92     |
| 28) Methyl tert-Butyl Ether   | 4.587 | 73  | 178647 | 2.345 | ppbv   | 100    |
| 29) Chloroform                | 5.269 | 83  | 397794 | 2.037 | ppbv   | 98     |
| 30) Cyclohexane               | 6.594 | 84  | 205987 | 2.167 | ppbv   | 95     |
| 31) cis-1,2-Dichloroethene    | 5.073 | 61  | 231792 | 2.037 | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane     | 5.996 | 97  | 391289 | 2.186 | ppbv   | 99     |
| 34) 2-Butanone                | 4.783 | 43  | 351257 | 2.105 | ppbv   | 97     |
| 35) Carbon Tetrachloride      | 6.491 | 117 | 399871 | 2.257 | ppbv   | 99     |
| 36) Benzene                   | 6.368 | 78  | 538471 | 2.169 | ppbv   | 96     |
| 37) 1,2-Dichloroethane        | 5.803 | 62  | 291330 | 2.080 | ppbv   | 100    |
| 38) Trichloroethene           | 7.285 | 130 | 214170 | 2.237 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 7.069 | 63  | 206245 | 2.102 | ppbv   | 97     |
| 40) 1,4-Dioxane               | 7.291 | 88  | 34545  | 0.994 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.561 | 42  | 206889 | 2.173 | ppbv   | 99     |
| 42) Bromodichloromethane      | 7.243 | 83  | 411846 | 2.116 | ppbv   | 100    |
| 43) Methyl Methacrylate       | 7.471 | 69  | 186557 | 2.140 | ppbv   | 95     |
| 44) 2,2,4-Trimethylpentane    | 7.323 | 57  | 932386 | 2.217 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 8.709 | 75  | 150360 | 1.929 | ppbv   | 97     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041675.D  
 Acq On : 7 Nov 2024 10:55  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Nov 08 00:09:49 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

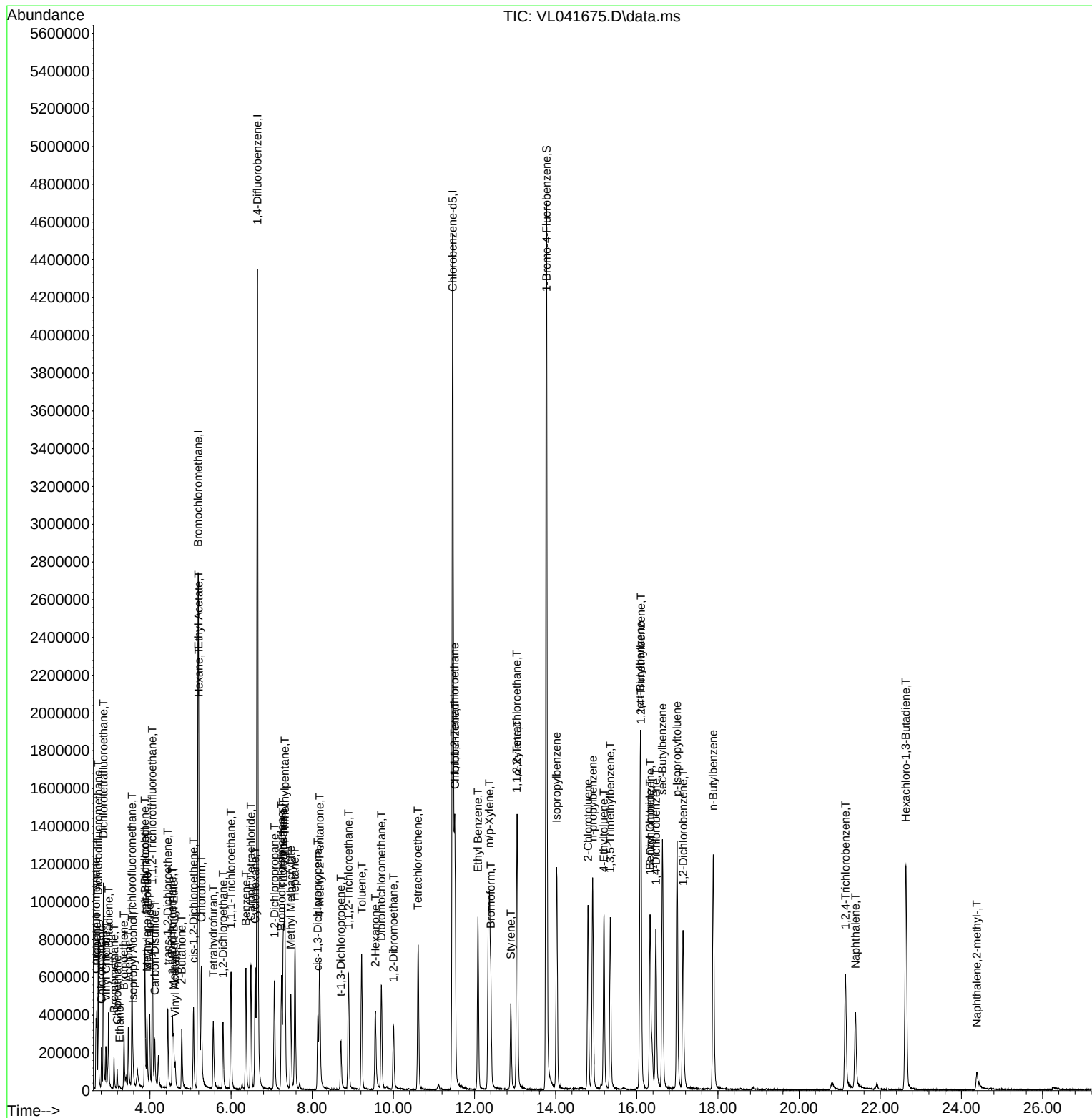
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.137  | 75   | 234294   | 2.069 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 8.893  | 97   | 122915   | 1.162 | ppbv   | 94       |
| 48) Dibromochloromethane      | 9.703  | 129  | 342372   | 2.121 | ppbv   | 99       |
| 49) Bromoform                 | 12.404 | 173  | 286412   | 2.080 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.185  | 43   | 563317   | 2.198 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.558  | 43   | 402751   | 2.163 | ppbv   | 97       |
| 52) Tetrachloroethene         | 10.606 | 164  | 105734   | 1.246 | ppbv   | 98       |
| 53) Toluene                   | 9.220  | 91   | 564332   | 2.161 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.005 | 107  | 279460   | 2.262 | ppbv   | 95       |
| 56) 1,1,1,2-Tetrachloroethane | 11.507 | 131  | 279872   | 2.130 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.519 | 112  | 500524   | 2.128 | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.085 | 91   | 777614   | 2.225 | ppbv   | 96       |
| 59) m/p-Xylene                | 12.368 | 91   | 715565   | 2.288 | ppbv # | 35       |
| 60) o-Xylene                  | 13.053 | 91   | 674003   | 2.258 | ppbv   | 98       |
| 61) Styrene                   | 12.892 | 104  | 262837   | 2.133 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.024 | 105  | 1030511  | 2.236 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.043 | 83   | 488021   | 2.245 | ppbv   | 99       |
| 64) n-propylbenzene           | 14.915 | 120  | 271271   | 2.251 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 16.085 | 119  | 948395   | 2.290 | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.326 | 91   | 52484    | 1.759 | ppbv # | 96       |
| 67) sec-Butylbenzene          | 16.632 | 105  | 1349679  | 2.312 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 16.992 | 119  | 1097205  | 2.324 | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.886 | 91   | 1109618  | 2.293 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 14.796 | 91   | 745884   | 2.238 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.188 | 105  | 777952   | 2.244 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 15.346 | 105  | 691387   | 2.274 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene    | 16.101 | 105  | 796450   | 2.252 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 16.329 | 146  | 473241   | 2.167 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.471 | 146  | 448788   | 2.091 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 17.140 | 146  | 466190   | 2.149 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 22.628 | 225  | 367865   | 2.144 | ppbv   | 99       |
| 79) Naphthalene               | 21.387 | 128  | 538842   | 2.478 | ppbv   | 97       |
| 80) Naphthalene,2-methyl-     | 24.381 | 142  | 101409   | 2.513 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.143 | 180  | 287687   | 2.127 | ppbv   | 99       |

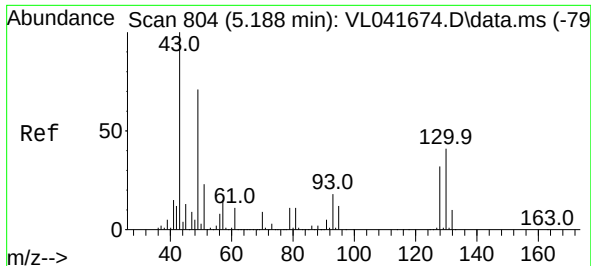
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
Data File : VL041675.D  
Acq On : 7 Nov 2024 10:55  
Operator : SY/MD  
Sample : VSTDICC002  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Quant Time: Nov 08 00:09:49 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

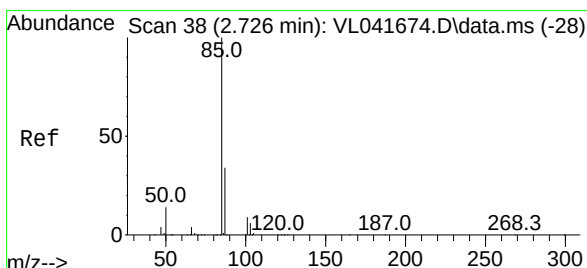
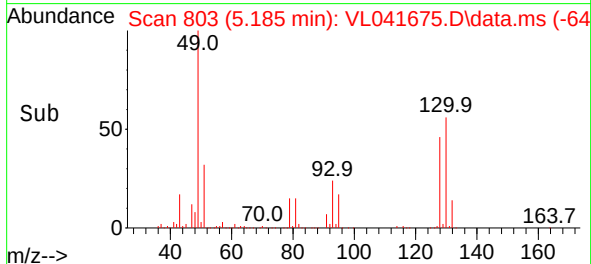
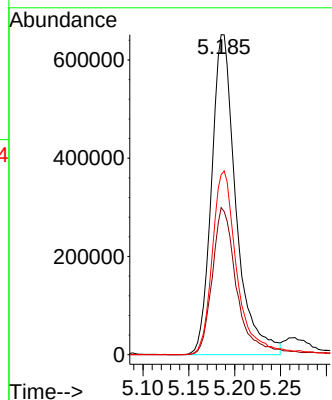
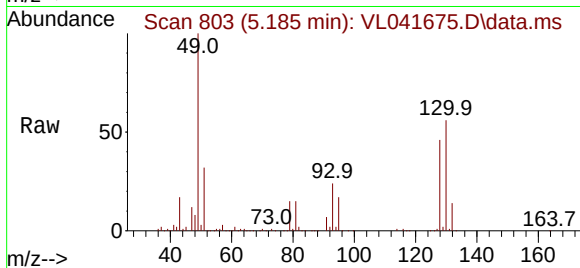




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.185 min Scan# 80  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

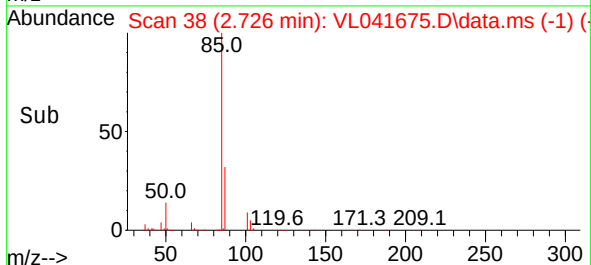
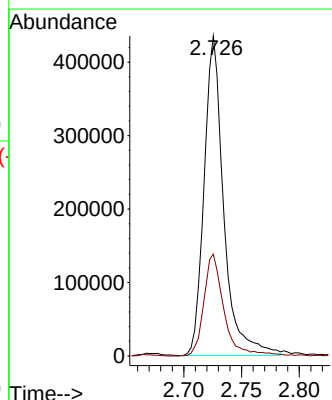
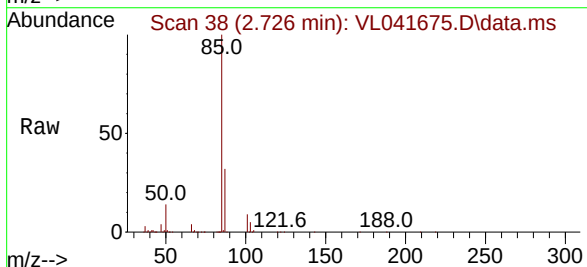
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

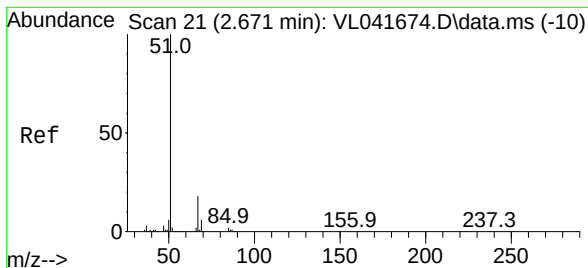
Tgt Ion: 49 Resp: 1208732  
Ion Ratio Lower Upper  
49 100  
128 47.2 23.8 71.2  
130 59.8 30.1 90.5



#2  
Dichlorodifluoromethane  
Concen: 2.355 ppbv  
RT: 2.726 min Scan# 38  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 85 Resp: 514444  
Ion Ratio Lower Upper  
85 100  
87 31.9 26.8 40.2

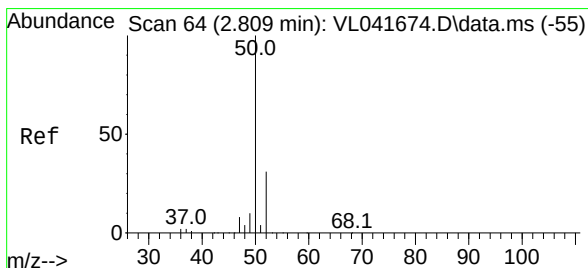
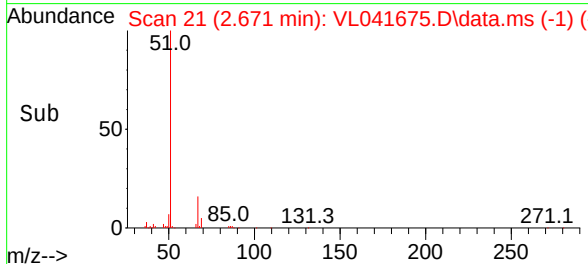
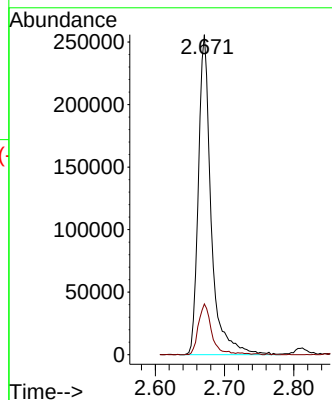
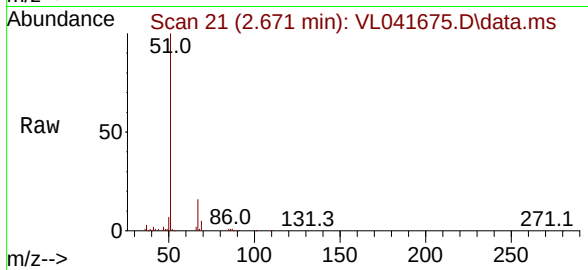




#3  
Chlorodifluoromethane  
Concen: 2.088 ppbv  
RT: 2.671 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

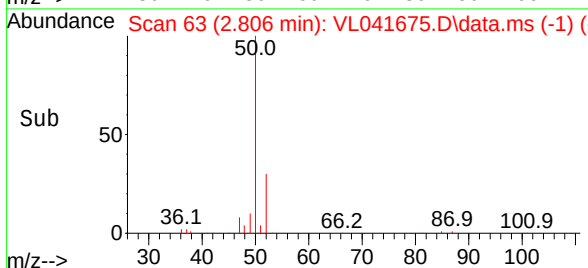
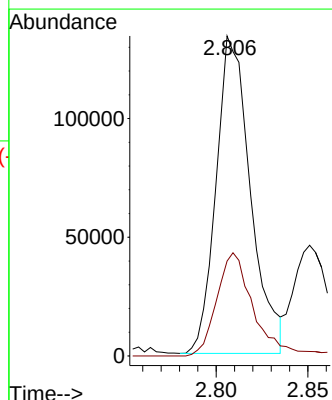
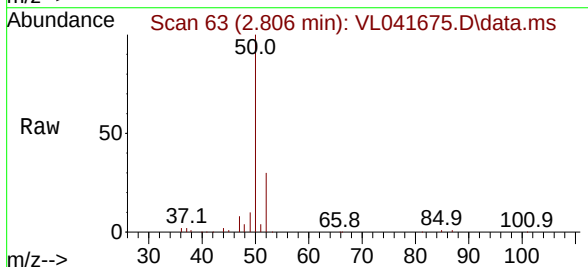
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

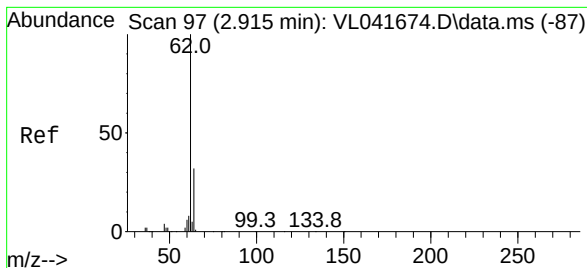
Tgt Ion: 51 Resp: 328832  
Ion Ratio Lower Upper  
51 100  
67 16.9 13.9 20.9



#4  
Chloromethane  
Concen: 2.088 ppbv  
RT: 2.806 min Scan# 63  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 50 Resp: 174215  
Ion Ratio Lower Upper  
50 100  
52 29.9 24.9 37.3

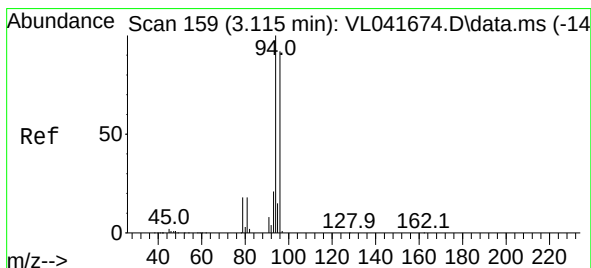
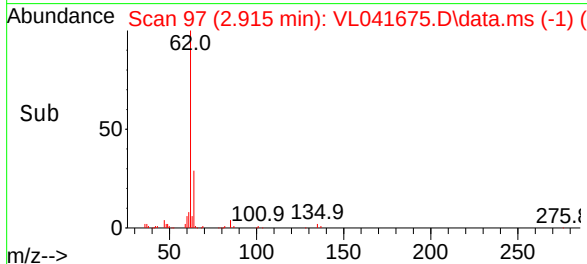
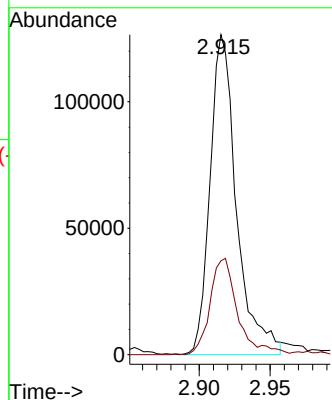
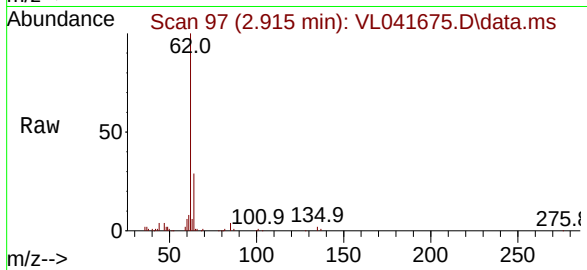




#5  
 Vinyl Chloride  
 Concen: 2.174 ppbv  
 RT: 2.915 min Scan# 91  
 Delta R.T. 0.000 min  
 Lab File: VL041675.D  
 Acq: 7 Nov 2024 10:55

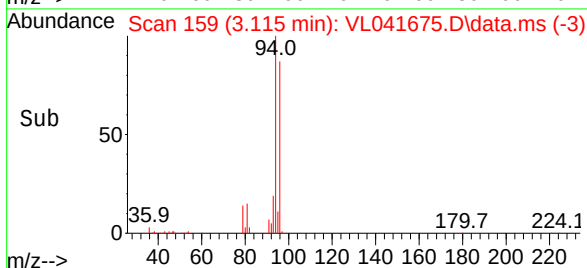
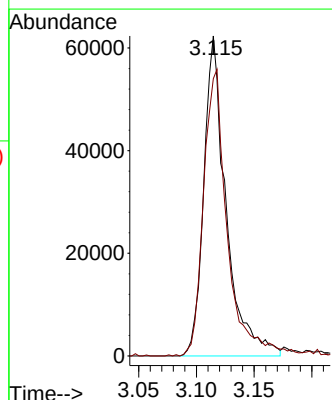
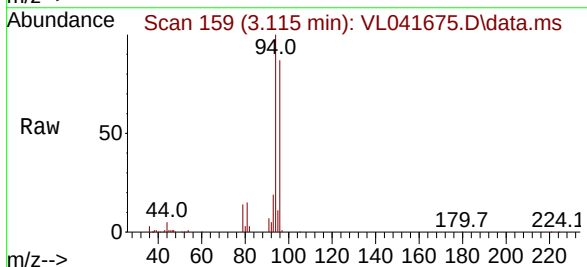
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Tgt Ion: 62 Resp: 164345  
 Ion Ratio Lower Upper  
 62 100  
 64 29.2 25.4 38.2

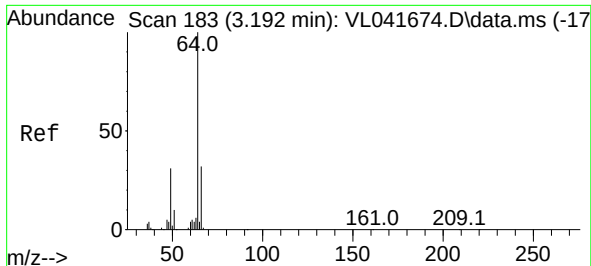


#6  
 Bromomethane  
 Concen: 2.108 ppbv  
 RT: 3.115 min Scan# 159  
 Delta R.T. 0.000 min  
 Lab File: VL041675.D  
 Acq: 7 Nov 2024 10:55

Tgt Ion: 94 Resp: 83930  
 Ion Ratio Lower Upper  
 94 100  
 96 86.6 73.4 110.2



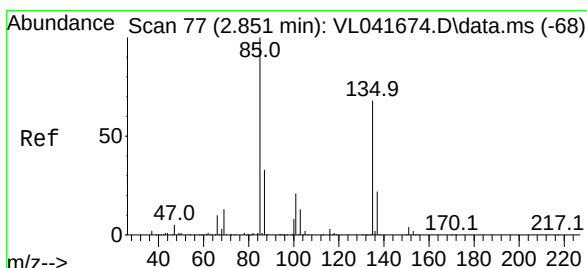
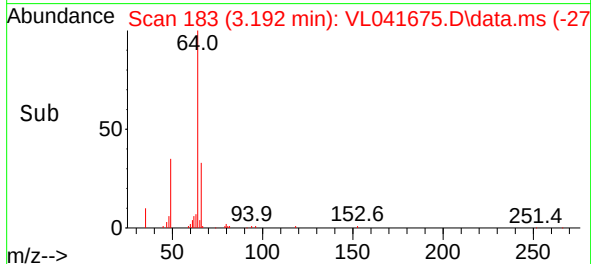
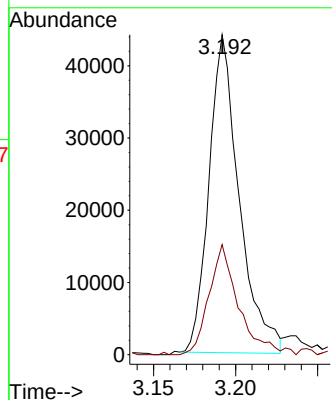
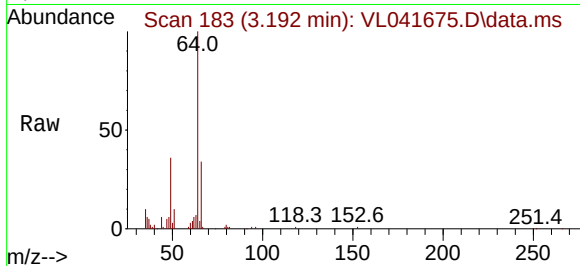




#7  
Chloroethane  
Concen: 2.057 ppbv  
RT: 3.192 min Scan# 183  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

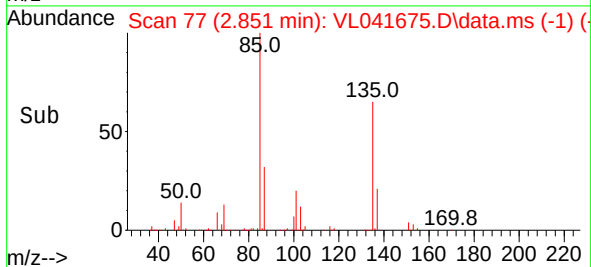
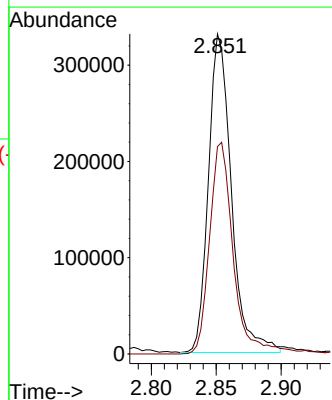
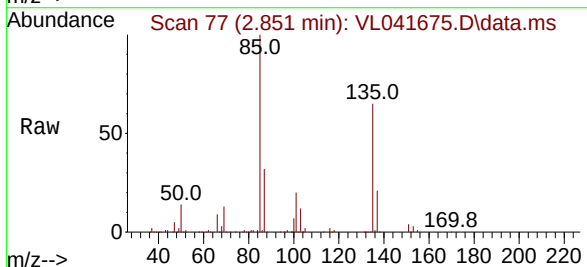
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

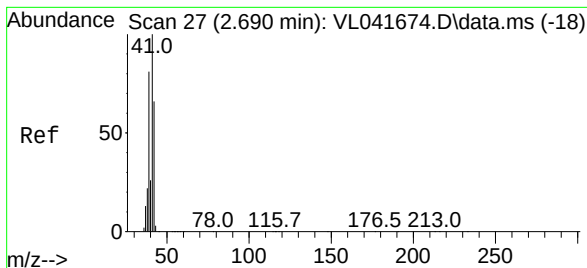
Tgt Ion: 64 Resp: 56344  
Ion Ratio Lower Upper  
64 100  
66 35.0 25.9 38.9



#8  
Dichlorotetrafluoroethane  
Concen: 2.089 ppbv  
RT: 2.851 min Scan# 77  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 85 Resp: 407437  
Ion Ratio Lower Upper  
85 100  
135 69.7 55.5 83.3





#9

Propene

Concen: 2.125 ppbv

RT: 2.690 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

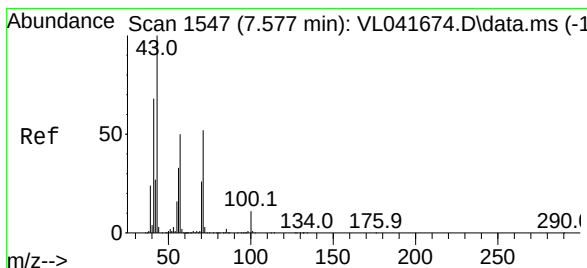
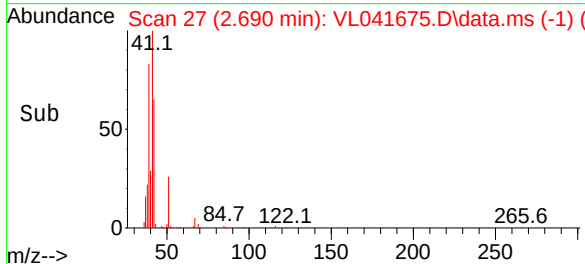
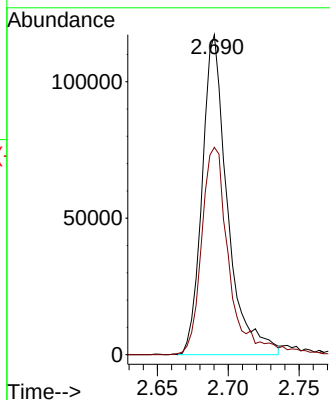
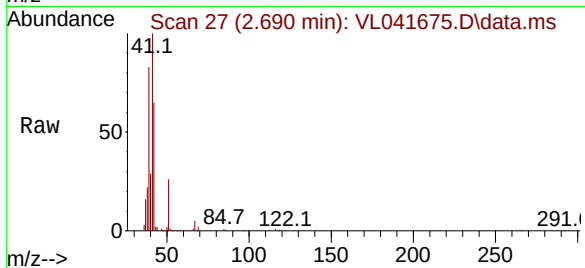
VSTDICC002

Tgt Ion: 41 Resp: 145858

Ion Ratio Lower Upper

41 100

42 71.6 55.0 82.4



#10

Heptane

Concen: 2.145 ppbv

RT: 7.574 min Scan# 1546

Delta R.T. -0.003 min

Lab File: VL041675.D

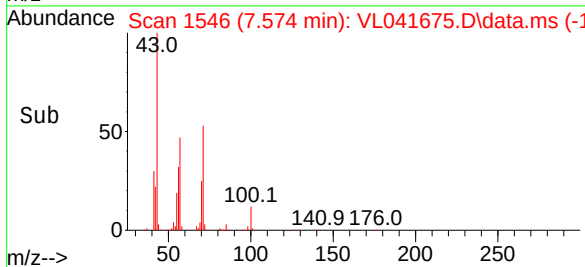
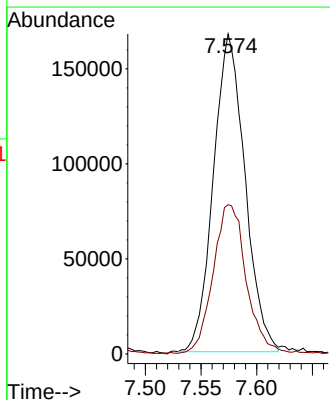
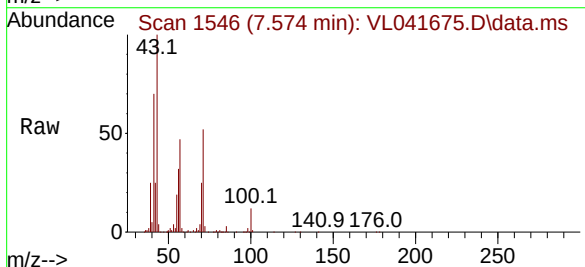
Acq: 7 Nov 2024 10:55

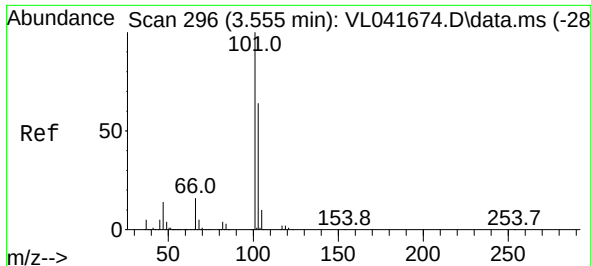
Tgt Ion: 43 Resp: 329781

Ion Ratio Lower Upper

43 100

57 50.1 40.0 60.0





#11

Trichlorofluoromethane

Concen: 2.126 ppbv

RT: 3.558 min Scan# 296

Delta R.T. 0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

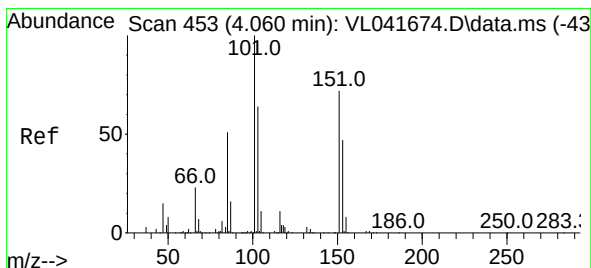
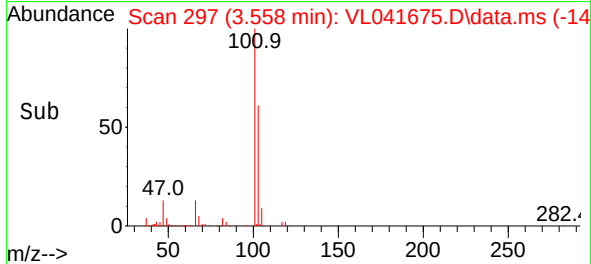
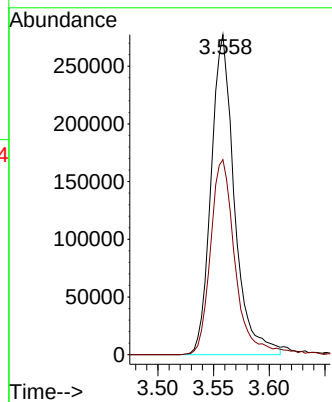
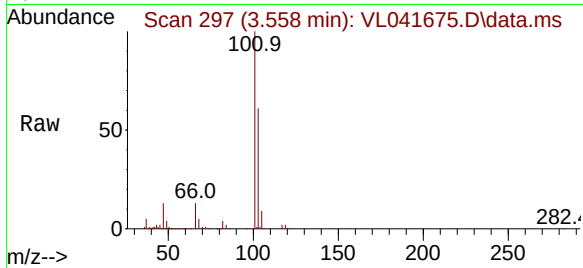
VSTDIC002

Tgt Ion:101 Resp: 404483

Ion Ratio Lower Upper

101 100

103 61.0 51.0 76.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.122 ppbv

RT: 4.060 min Scan# 453

Delta R.T. 0.000 min

Lab File: VL041675.D

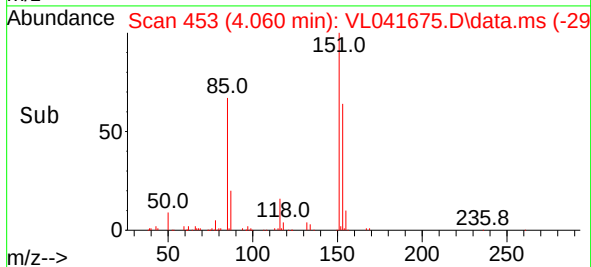
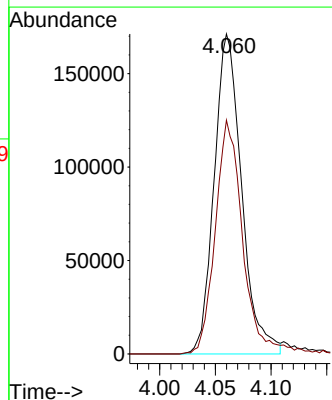
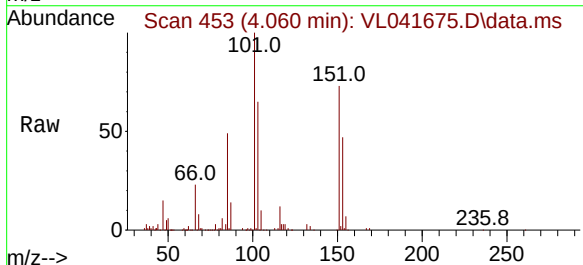
Acq: 7 Nov 2024 10:55

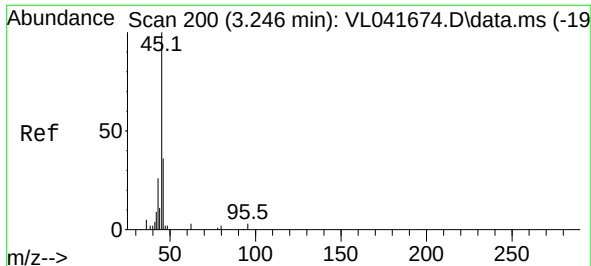
Tgt Ion:101 Resp: 293463

Ion Ratio Lower Upper

101 100

151 74.0 59.1 88.7





#13

Ethanol

Concen: 1.439 ppbv

RT: 3.253 min Scan# 20

Delta R.T. 0.006 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

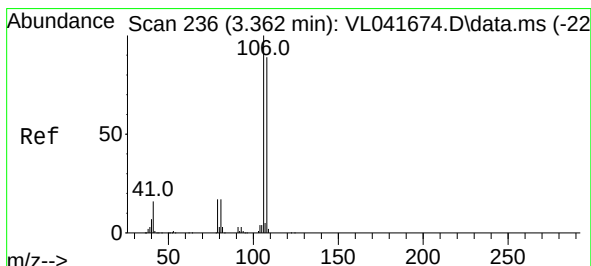
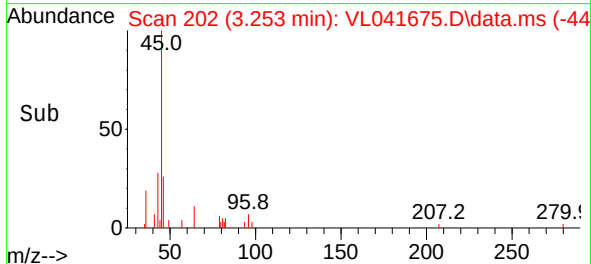
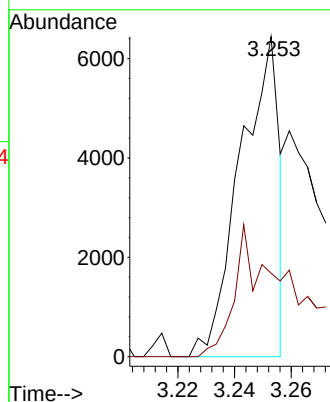
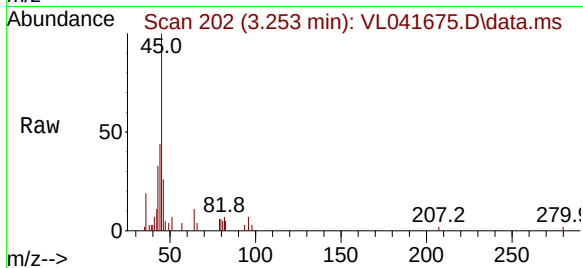
VSTDICC002

Tgt Ion: 45 Resp: 6143

Ion Ratio Lower Upper

45 100

46 69.3 13.8 55.2#



#14

Bromoethene

Concen: 2.071 ppbv

RT: 3.362 min Scan# 236

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

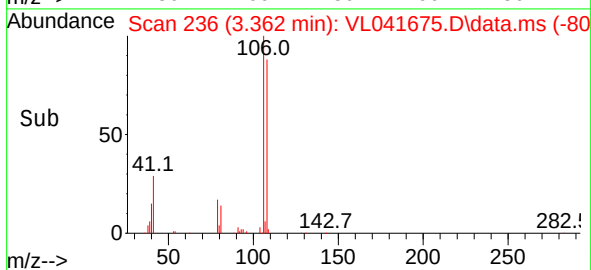
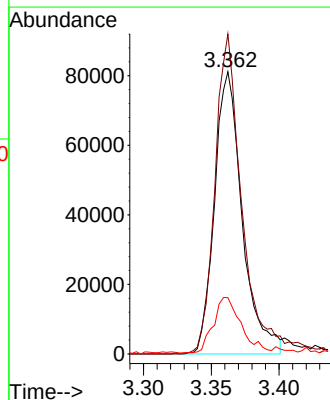
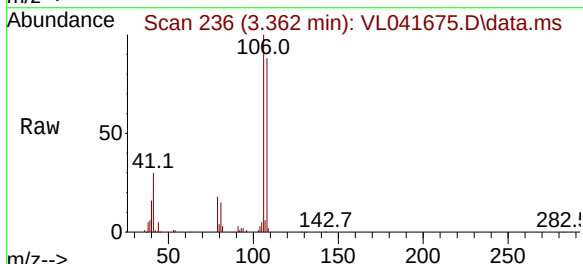
Tgt Ion:108 Resp: 115140

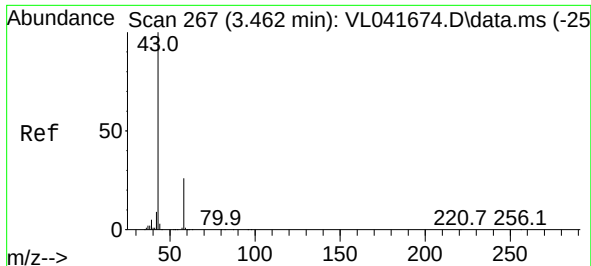
Ion Ratio Lower Upper

108 100

106 114.3 88.6 133.0

79 21.5 15.6 23.4





#15

Acetone

Concen: 2.190 ppbv

RT: 3.468 min Scan# 2

Delta R.T. 0.006 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

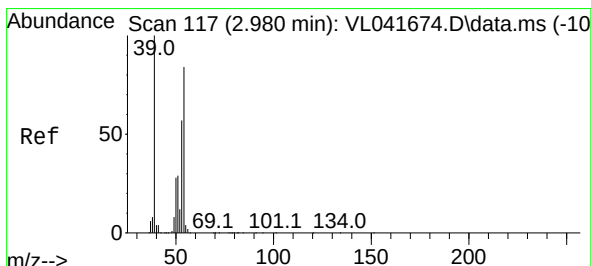
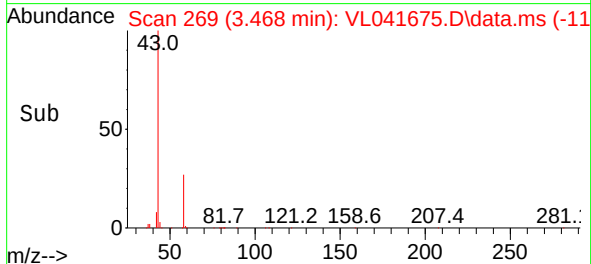
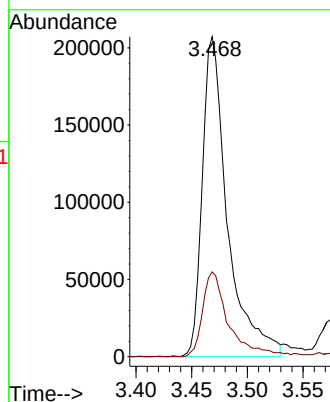
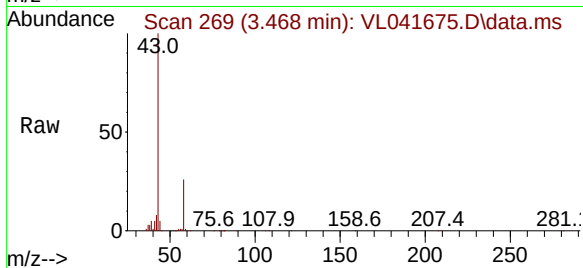
VSTDICC002

Tgt Ion: 43 Resp: 325763

Ion Ratio Lower Upper

43 100

58 27.9 21.4 32.0



#16

1,3-Butadiene

Concen: 2.232 ppbv

RT: 2.980 min Scan# 117

Delta R.T. 0.000 min

Lab File: VL041675.D

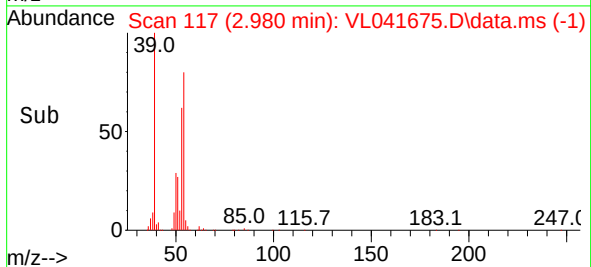
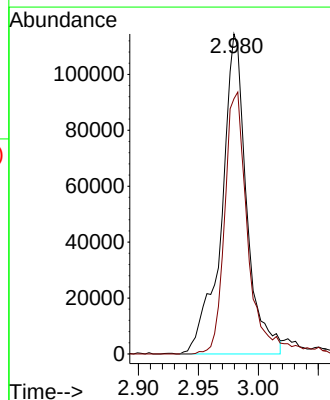
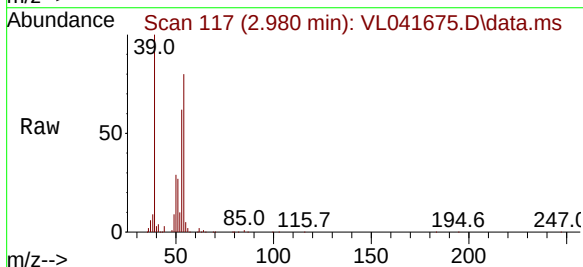
Acq: 7 Nov 2024 10:55

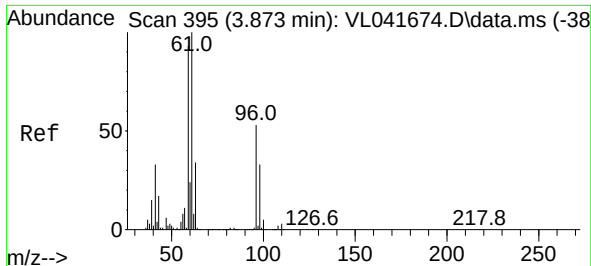
Tgt Ion: 39 Resp: 166496

Ion Ratio Lower Upper

39 100

54 76.8 61.3 91.9





#17

tert-Butyl alcohol

Concen: 1.919 ppbv

RT: 3.880 min Scan# 397

Delta R.T. 0.006 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

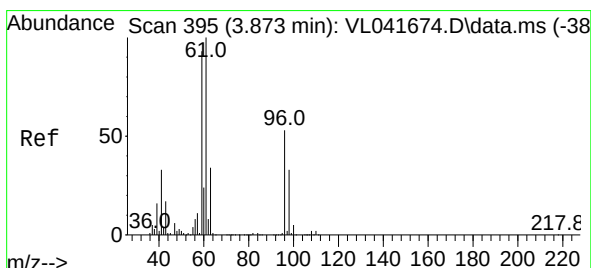
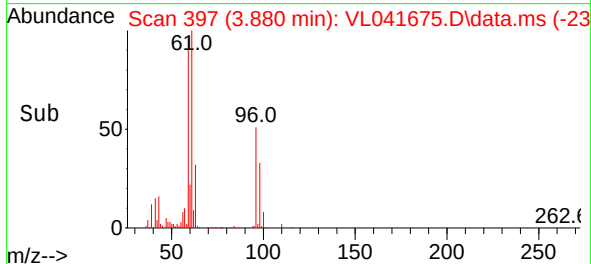
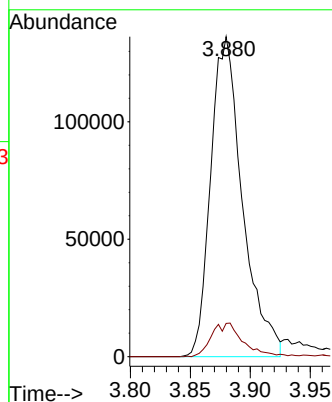
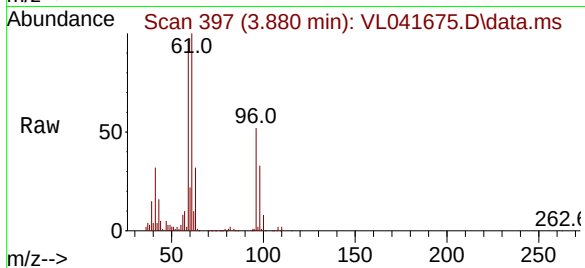
VSTDICC002

Tgt Ion: 59 Resp: 250452

Ion Ratio Lower Upper

59 100

57 10.6 8.5 12.7



#18

1,1-Dichloroethene

Concen: 2.075 ppbv

RT: 3.877 min Scan# 396

Delta R.T. 0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

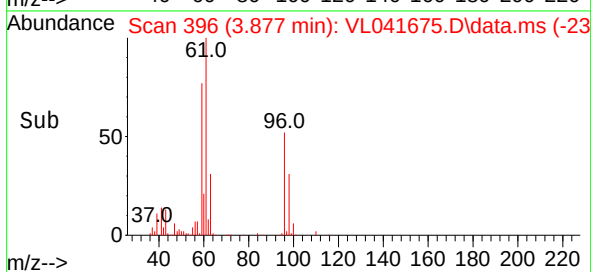
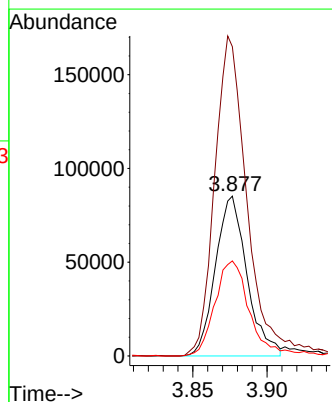
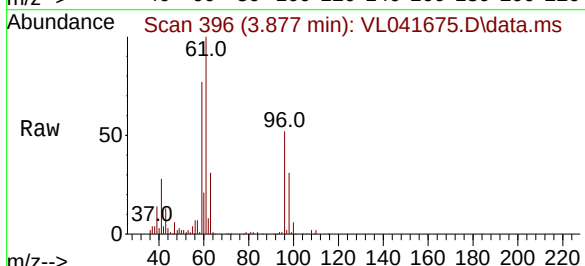
Tgt Ion: 96 Resp: 125850

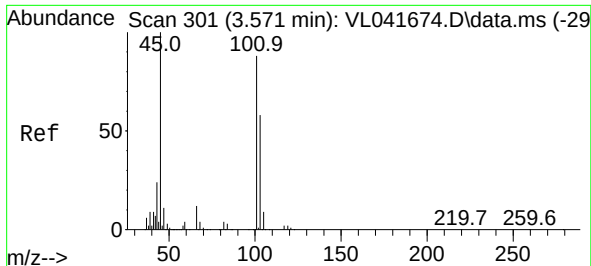
Ion Ratio Lower Upper

96 100

61 193.5 150.7 226.1

98 59.4 49.4 74.2

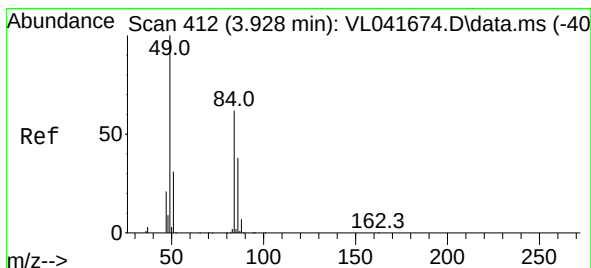
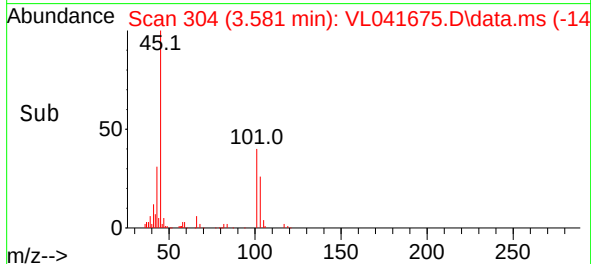
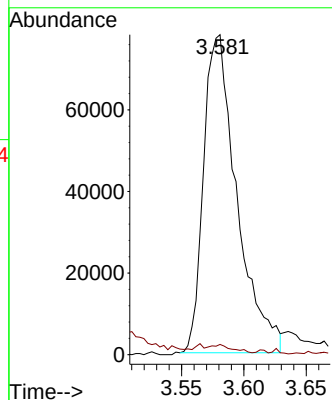
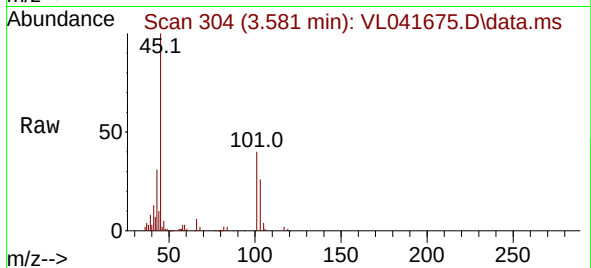




#19  
Isopropyl Alcohol  
Concen: 2.015 ppbv  
RT: 3.581 min Scan# 301  
Delta R.T. 0.010 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

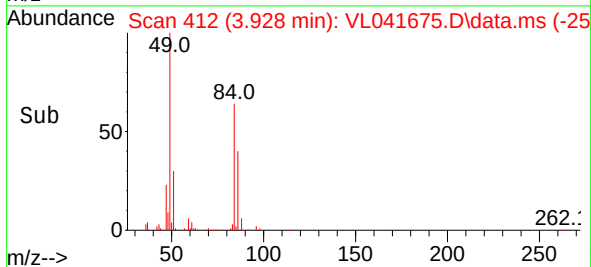
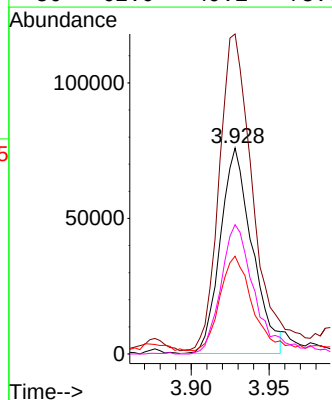
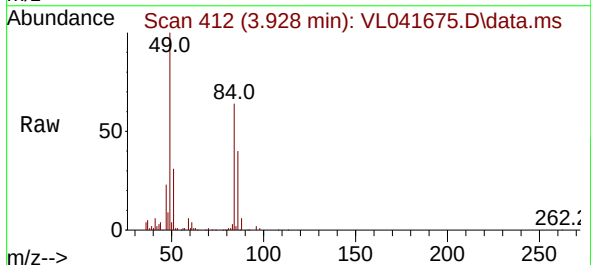
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

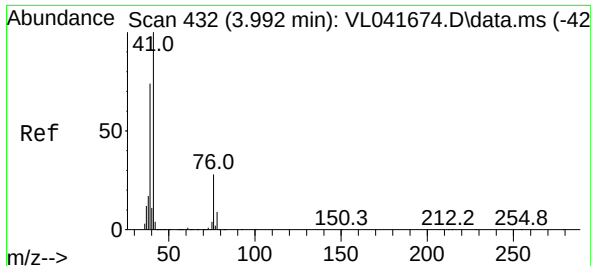
Tgt Ion: 45 Resp: 145112  
Ion Ratio Lower Upper  
45 100  
58 3.8 2.5 3.7#



#20  
Methylene Chloride  
Concen: 1.972 ppbv  
RT: 3.928 min Scan# 412  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 84 Resp: 107956  
Ion Ratio Lower Upper  
84 100  
49 154.2 129.7 194.5  
51 45.1 39.8 59.6  
86 62.9 49.1 73.7

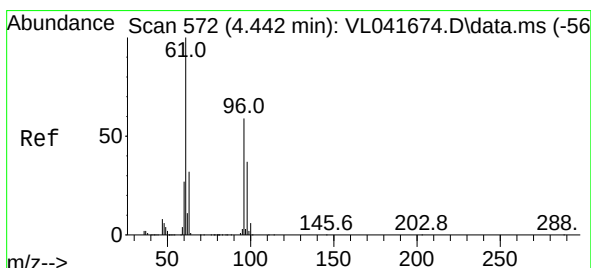
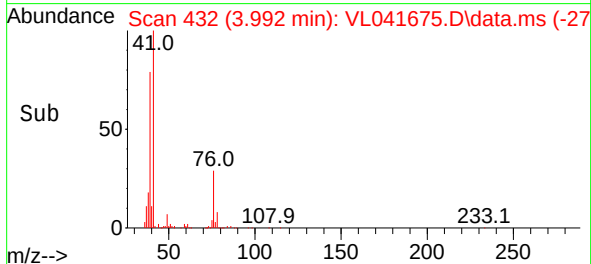
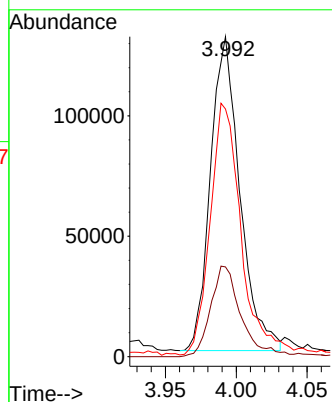
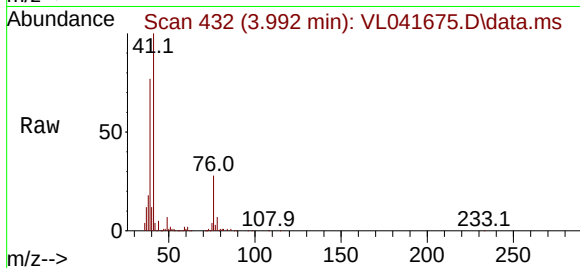




#21  
 Allyl Chloride  
 Concen: 2.046 ppbv  
 RT: 3.992 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL041675.D  
 Acq: 7 Nov 2024 10:55

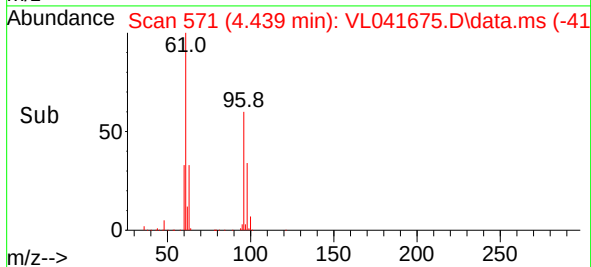
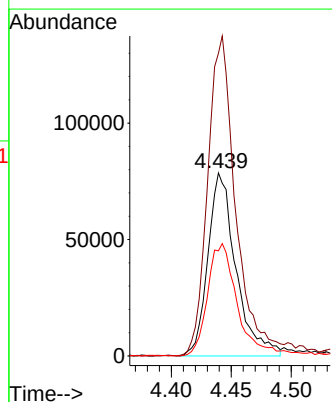
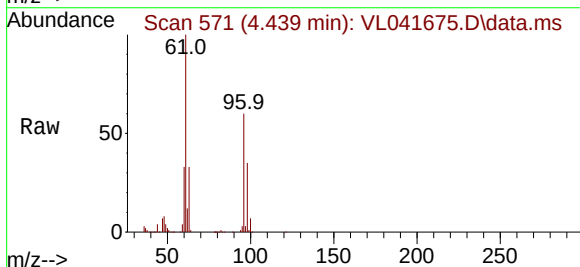
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Tgt Ion: 41 Resp: 188103  
 Ion Ratio Lower Upper  
 41 100  
 76 30.7 23.5 35.3  
 39 86.5 63.0 94.4

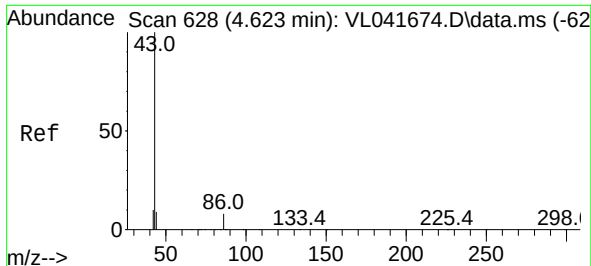


#22  
 trans-1,2-Dichloroethene  
 Concen: 2.114 ppbv  
 RT: 4.439 min Scan# 571  
 Delta R.T. -0.003 min  
 Lab File: VL041675.D  
 Acq: 7 Nov 2024 10:55

Tgt Ion: 96 Resp: 127951  
 Ion Ratio Lower Upper  
 96 100  
 61 164.9 134.5 201.7  
 98 57.4 49.6 74.4





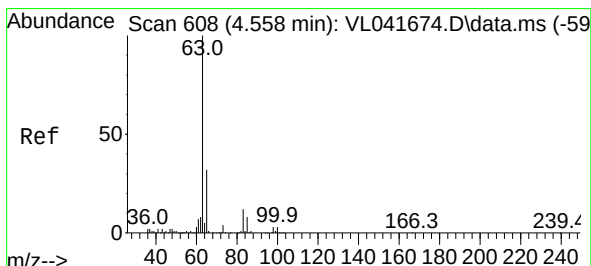
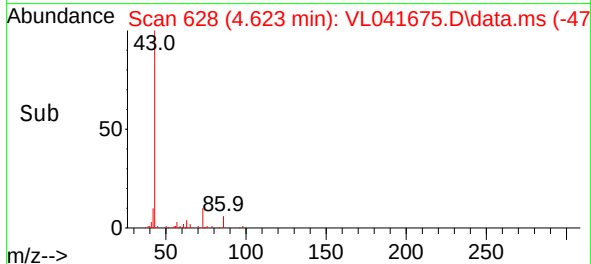
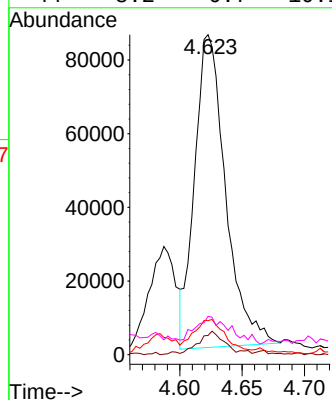
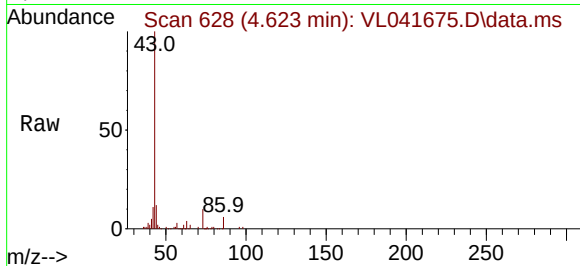


#23  
 Vinyl Acetate  
 Concen: 2.095 ppbv  
 RT: 4.623 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: VL041675.D  
 Acq: 7 Nov 2024 10:55

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

Tgt Ion: 43 Resp: 146592

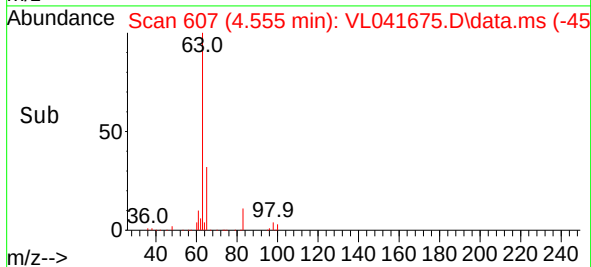
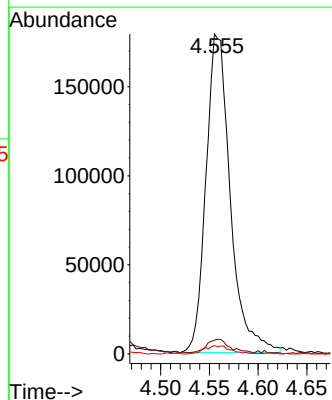
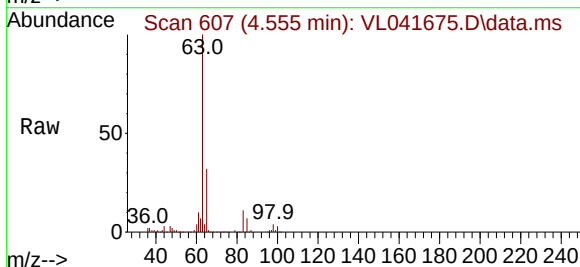
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 5.8   | 5.3   | 7.9   |
| 42  | 10.1  | 8.5   | 12.7  |
| 44  | 8.2   | 6.7   | 10.1  |

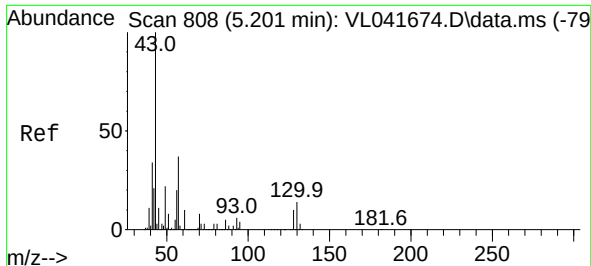


#24  
 1,1-Dichloroethane  
 Concen: 2.311 ppbv  
 RT: 4.555 min Scan# 607  
 Delta R.T. -0.003 min  
 Lab File: VL041675.D  
 Acq: 7 Nov 2024 10:55

Tgt Ion: 63 Resp: 311096

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.0   | 1.8   | 5.4   |
| 100 | 2.7   | 1.4   | 4.2   |



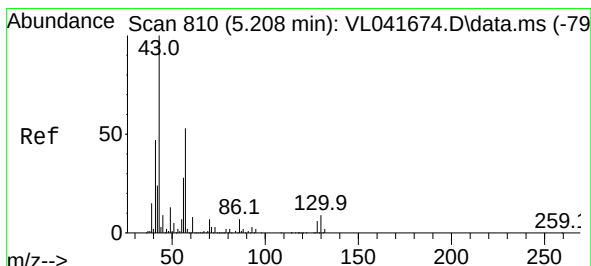
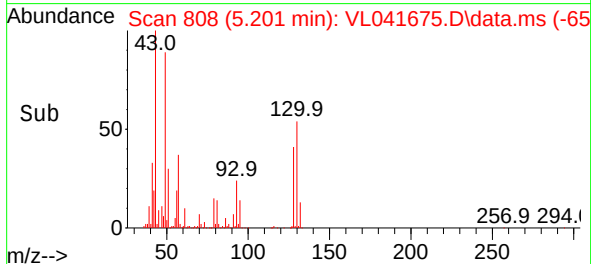
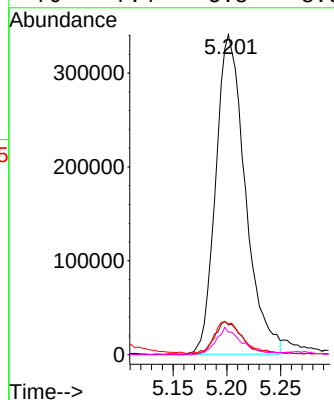
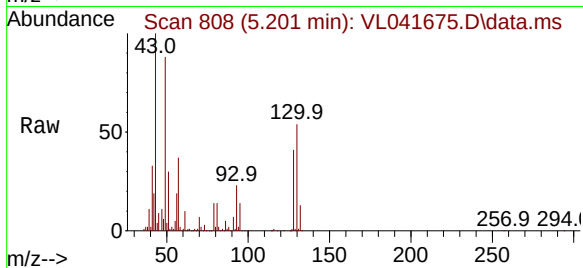


#25  
Ethyl Acetate  
Concen: 2.105 ppbv  
RT: 5.201 min Scan# 808  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 43 Resp: 648134

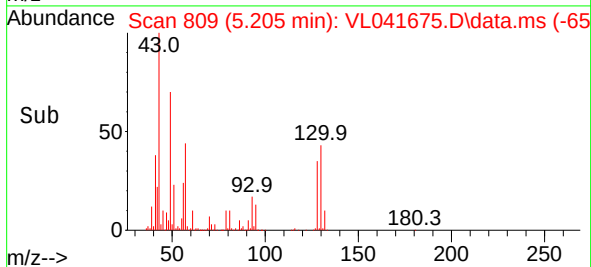
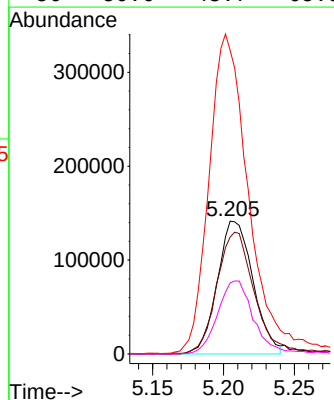
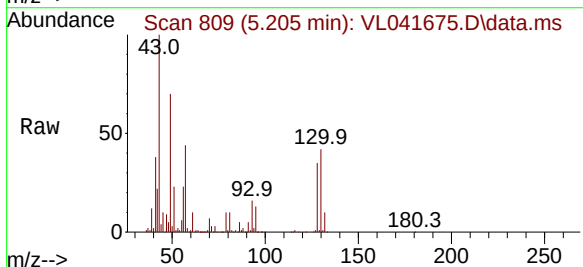
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.4  | 8.6   | 13.0  |
| 61  | 10.4  | 8.4   | 12.6  |
| 70  | 7.4   | 5.8   | 8.6   |

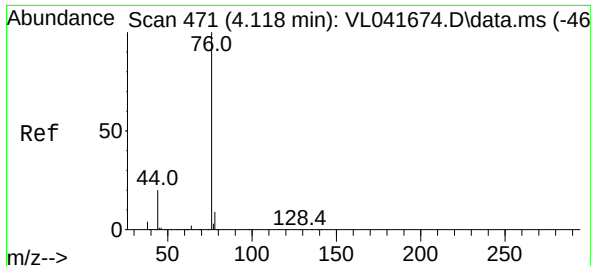


#26  
Hexane  
Concen: 2.095 ppbv  
RT: 5.205 min Scan# 809  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 57 Resp: 247802

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 99.7  | 76.1  | 114.1 |
| 43  | 275.1 | 207.0 | 310.6 |
| 56  | 56.6  | 43.7  | 65.5  |

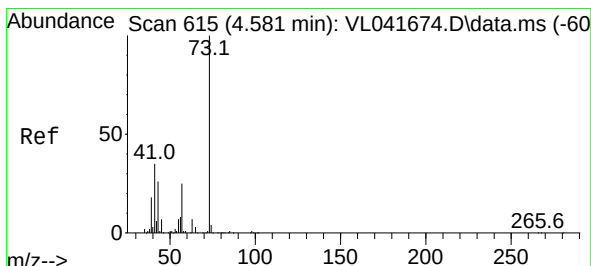
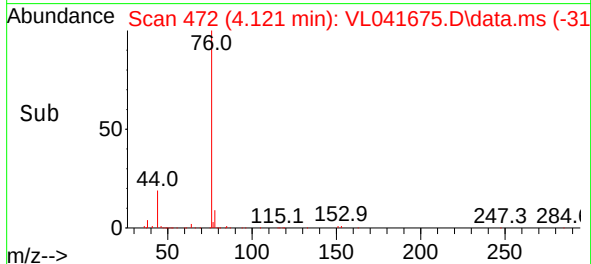
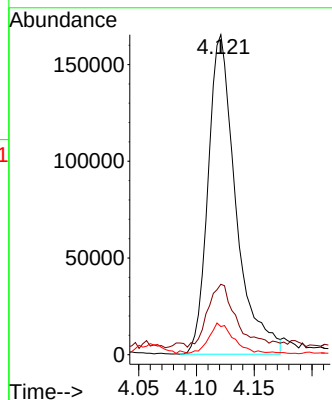
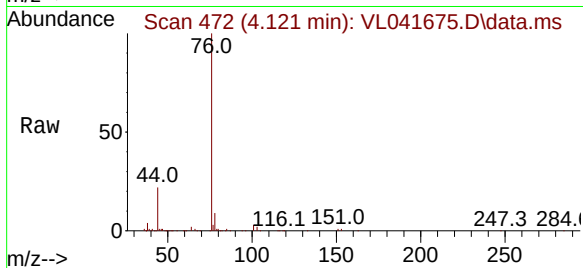




#27  
Carbon Disulfide  
Concen: 2.076 ppbv  
RT: 4.121 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

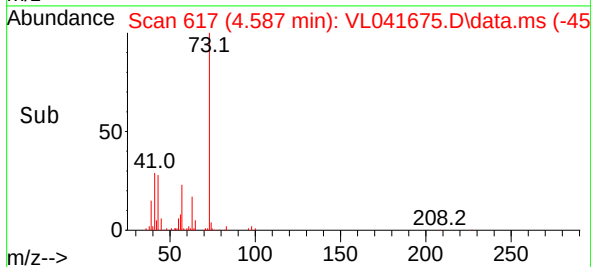
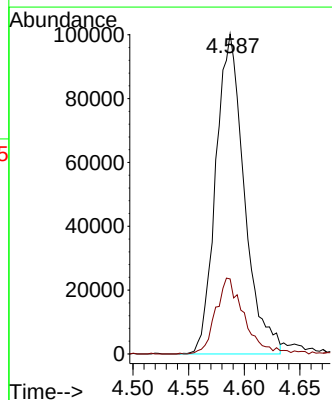
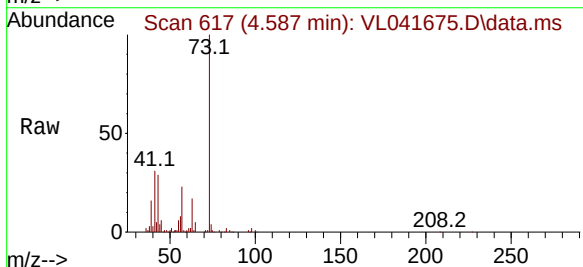
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

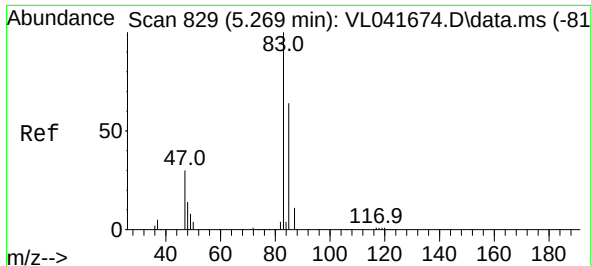
Tgt Ion: 76 Resp: 275871  
Ion Ratio Lower Upper  
76 100  
44 25.2 15.8 23.8#  
78 9.9 7.5 11.3



#28  
Methyl tert-Butyl Ether  
Concen: 2.345 ppbv  
RT: 4.587 min Scan# 617  
Delta R.T. 0.006 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 73 Resp: 178647  
Ion Ratio Lower Upper  
73 100  
57 24.3 19.6 29.4





#29

Chloroform

Concen: 2.037 ppbv

RT: 5.269 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_1

ClientSampleId :

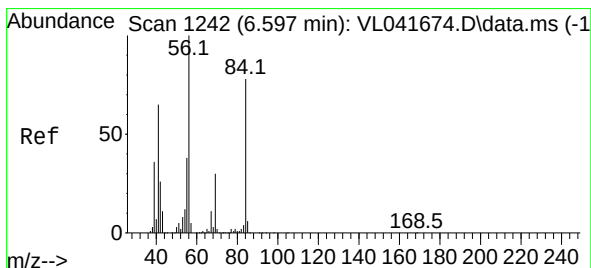
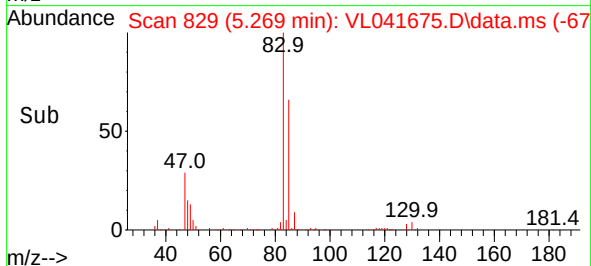
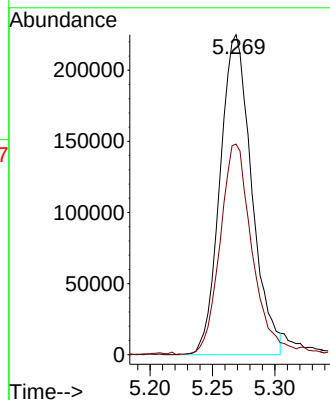
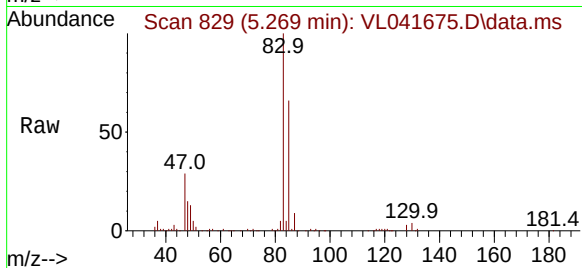
VSTDIC002

Tgt Ion: 83 Resp: 397794

Ion Ratio Lower Upper

83 100

85 65.5 51.1 76.7



#30

Cyclohexane

Concen: 2.167 ppbv

RT: 6.594 min Scan# 1241

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

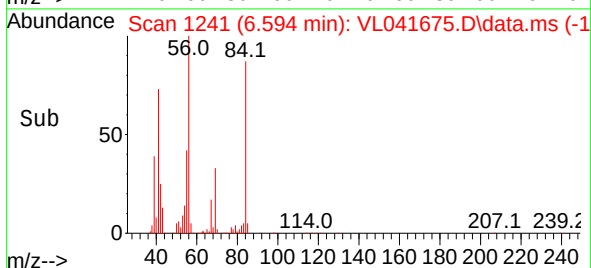
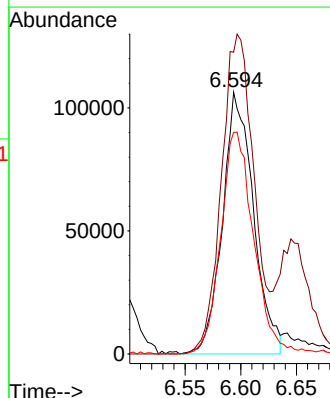
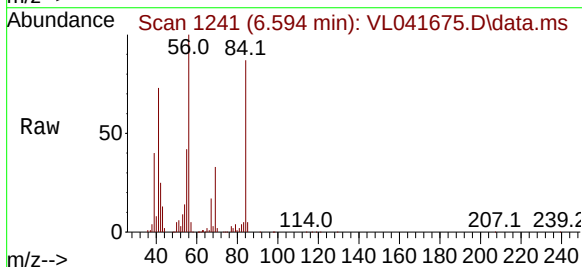
Tgt Ion: 84 Resp: 205987

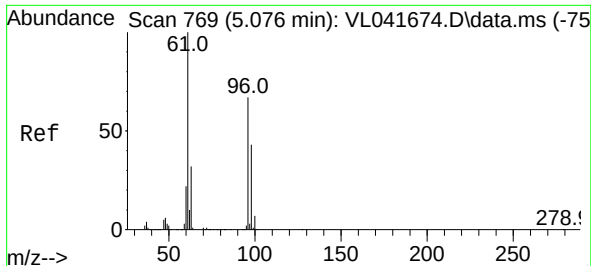
Ion Ratio Lower Upper

84 100

56 132.2 110.8 166.2

41 90.9 70.0 105.0





#31

cis-1,2-Dichloroethene

Concen: 2.037 ppbv

RT: 5.073 min Scan# 7

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

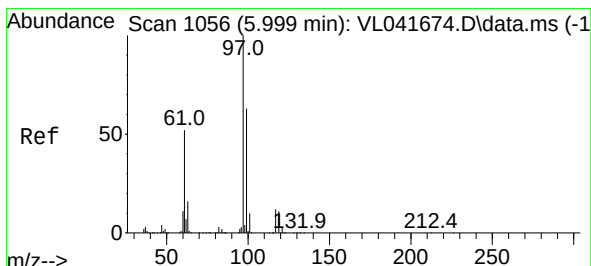
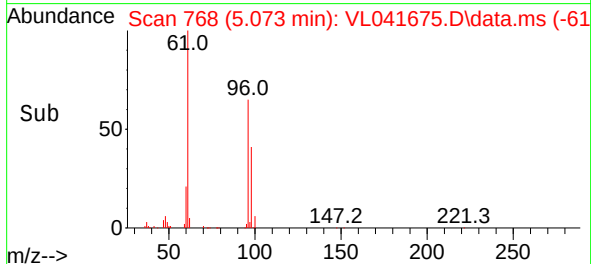
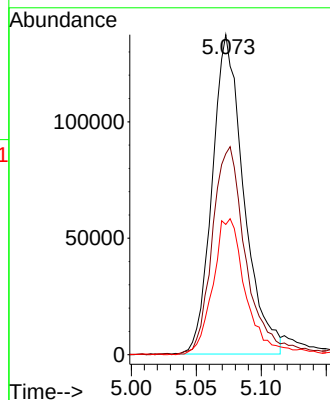
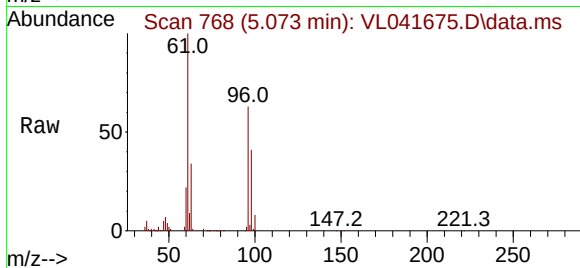
Tgt Ion: 61 Resp: 231792

Ion Ratio Lower Upper

61 100

96 62.4 53.4 80.2

98 40.6 34.0 51.0



#32

1,1,1-Trichloroethane

Concen: 2.186 ppbv

RT: 5.996 min Scan# 1055

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

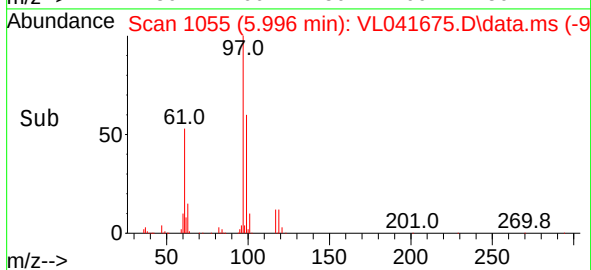
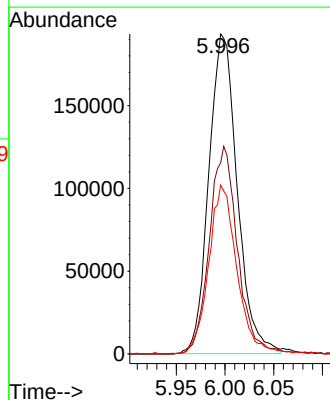
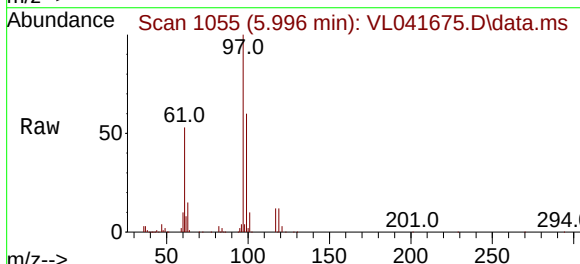
Tgt Ion: 97 Resp: 391289

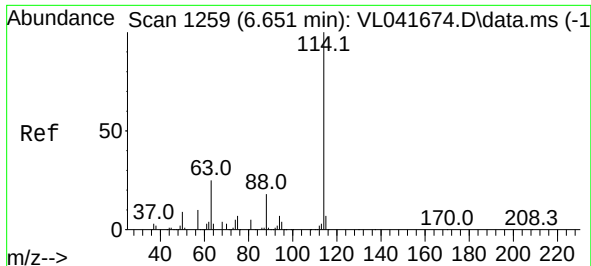
Ion Ratio Lower Upper

97 100

99 64.8 51.4 77.2

61 53.0 41.7 62.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

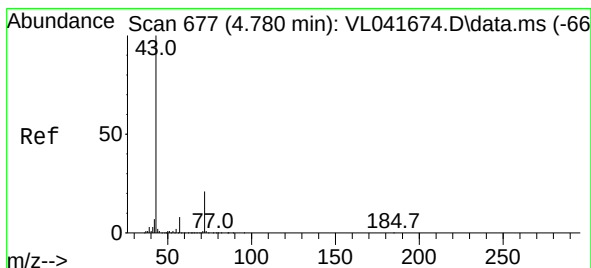
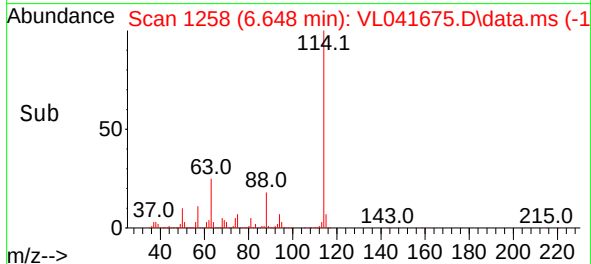
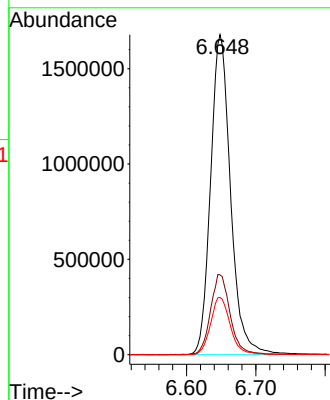
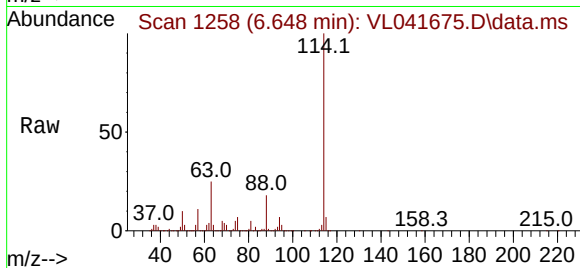
Tgt Ion:114 Resp: 3351063

Ion Ratio Lower Upper

114 100

63 24.9 20.3 30.5

88 17.8 14.2 21.4



#34

2-Butanone

Concen: 2.105 ppbv

RT: 4.783 min Scan# 678

Delta R.T. 0.003 min

Lab File: VL041675.D

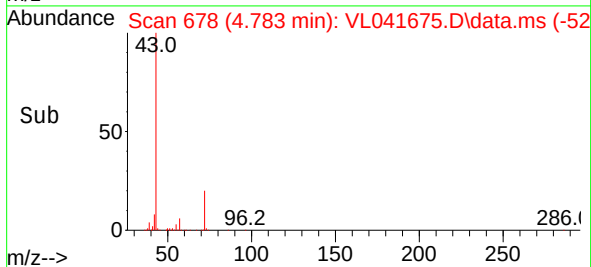
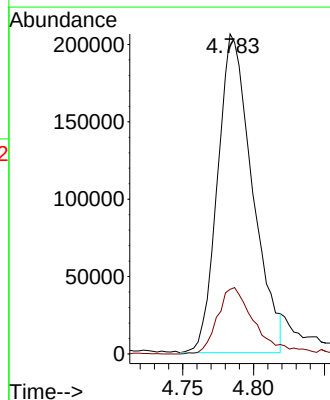
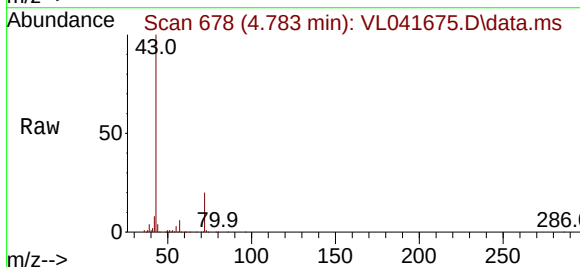
Acq: 7 Nov 2024 10:55

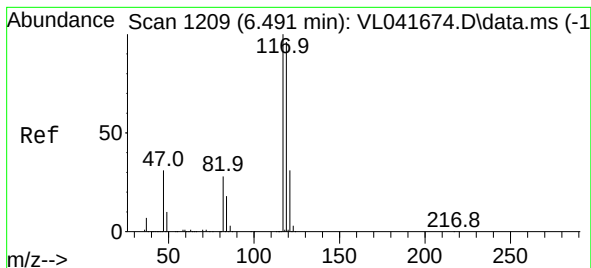
Tgt Ion: 43 Resp: 351257

Ion Ratio Lower Upper

43 100

72 23.3 17.4 26.0





#35

Carbon Tetrachloride

Concen: 2.257 ppbv

RT: 6.491 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC002

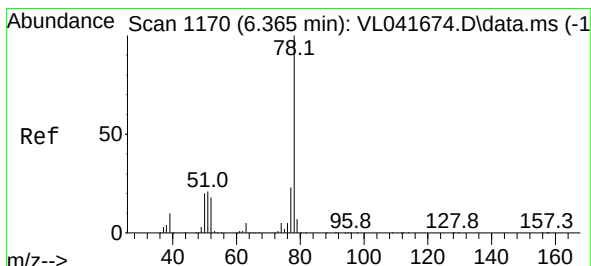
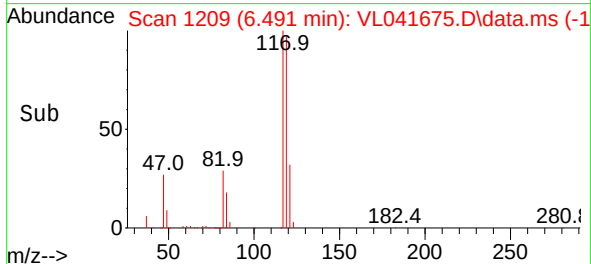
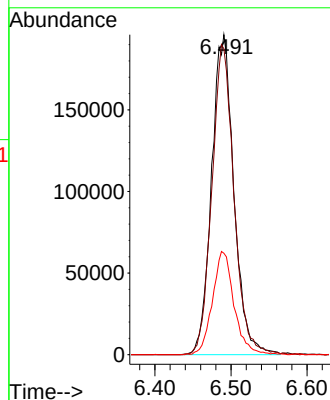
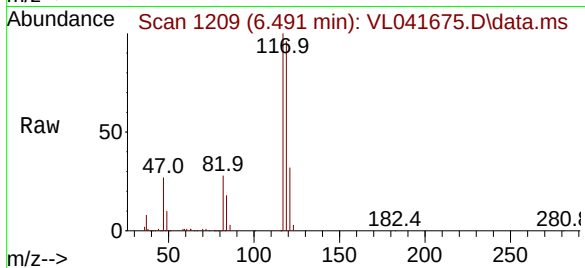
Tgt Ion:117 Resp: 399871

Ion Ratio Lower Upper

117 100

119 95.6 77.2 115.8

121 31.7 25.0 37.4



#36

Benzene

Concen: 2.169 ppbv

RT: 6.368 min Scan# 1171

Delta R.T. 0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

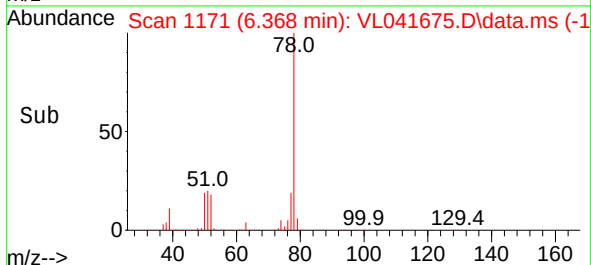
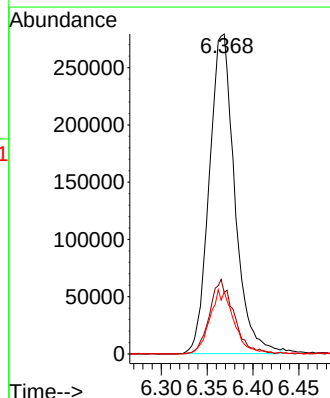
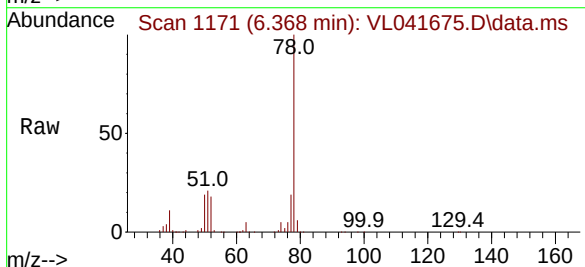
Tgt Ion: 78 Resp: 538471

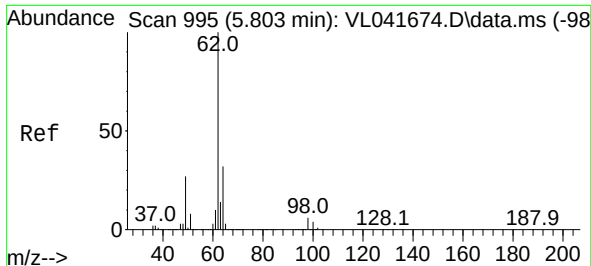
Ion Ratio Lower Upper

78 100

77 19.1 18.5 27.7

50 19.5 15.6 23.4





#37

1,2-Dichloroethane

Concen: 2.080 ppbv

RT: 5.803 min Scan# 995

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

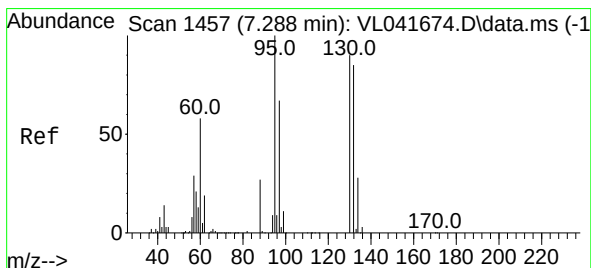
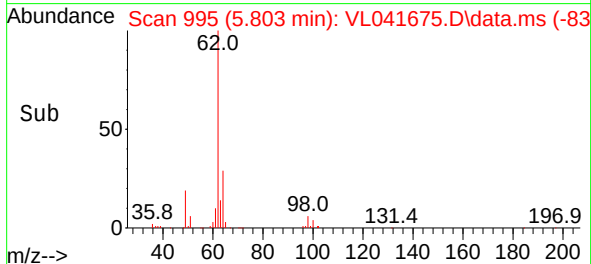
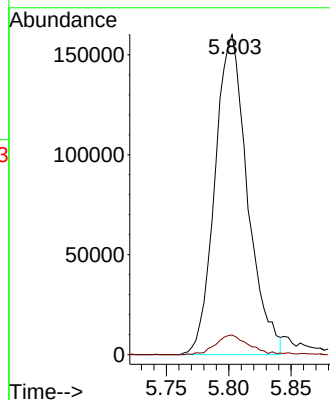
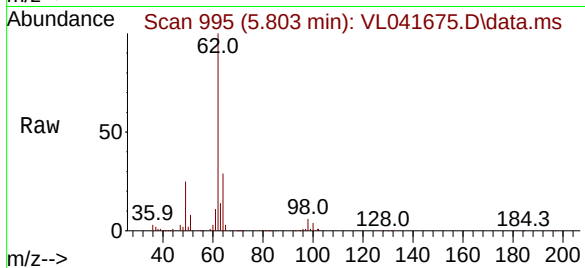
VSTDICC002

Tgt Ion: 62 Resp: 291330

Ion Ratio Lower Upper

62 100

98 6.6 5.2 7.8



#38

Trichloroethene

Concen: 2.237 ppbv

RT: 7.285 min Scan# 1456

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Tgt Ion:130 Resp: 214170

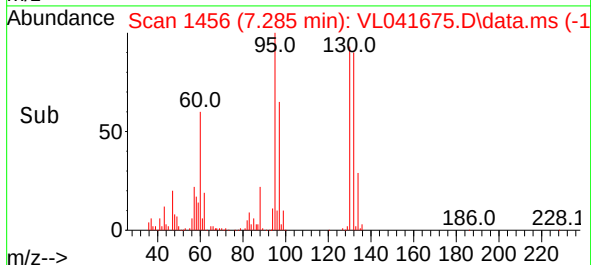
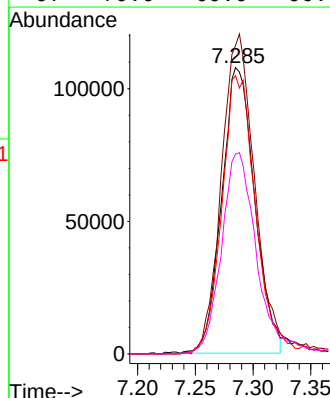
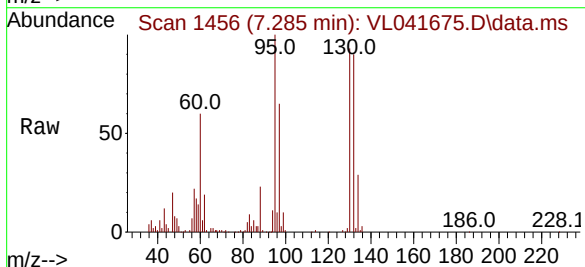
Ion Ratio Lower Upper

130 100

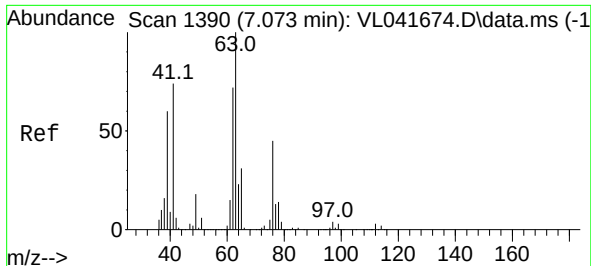
95 108.0 89.1 133.7

132 97.2 75.7 113.5

97 70.0 60.0 90.0







#39

1,2-Dichloropropane

Concen: 2.102 ppbv

RT: 7.069 min Scan# 1389

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

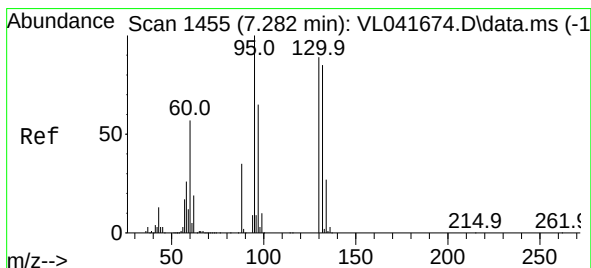
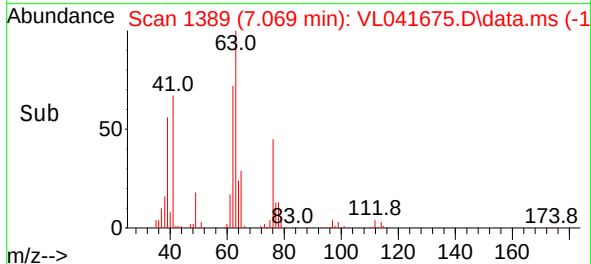
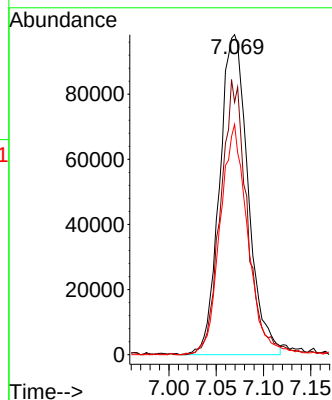
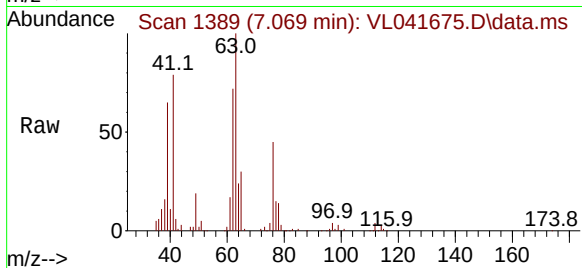
Tgt Ion: 63 Resp: 206245

Ion Ratio Lower Upper

63 100

41 78.9 59.1 88.7

62 72.0 57.7 86.5



#40

1,4-Dioxane

Concen: 0.994 ppbv

RT: 7.291 min Scan# 1458

Delta R.T. 0.010 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Tgt Ion: 88 Resp: 34545

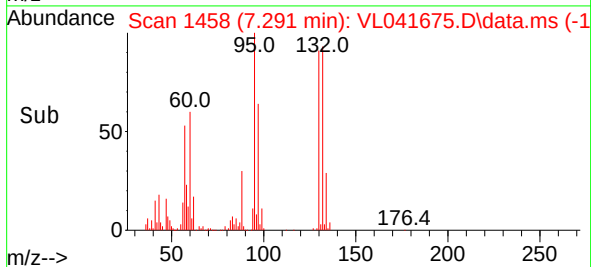
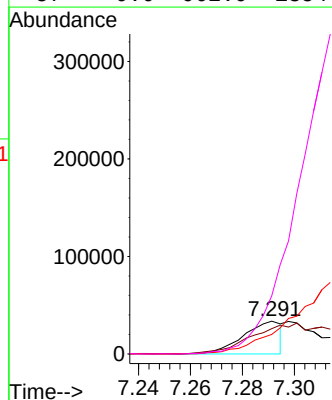
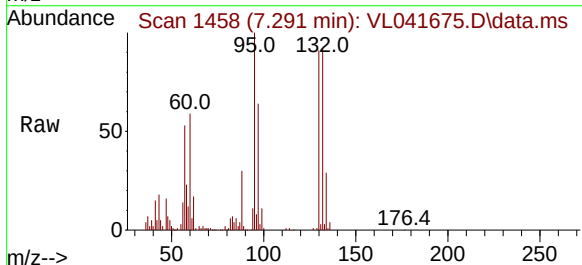
Ion Ratio Lower Upper

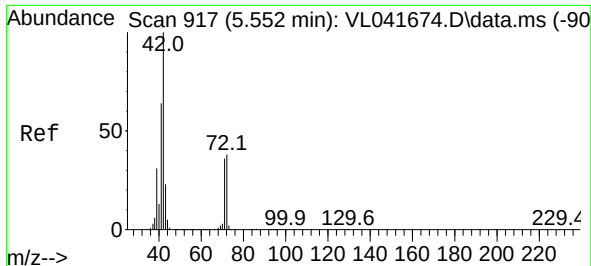
88 100

58 0.0 101.4 152.2#

43 0.0 208.0 312.0#

57 0.0 902.9 1354.3#





#41

Tetrahydrofuran

Concen: 2.173 ppbv

RT: 5.561 min Scan# 917

Delta R.T. 0.010 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

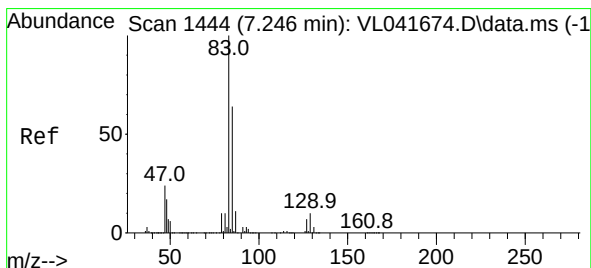
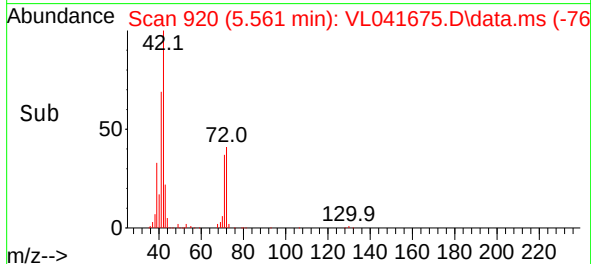
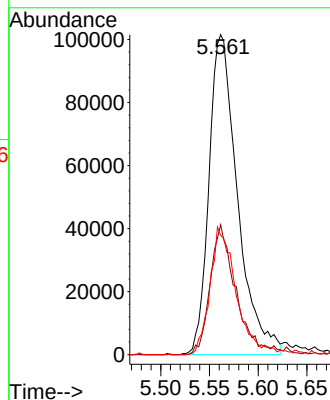
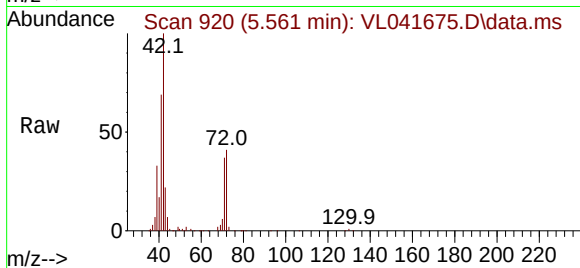
Tgt Ion: 42 Resp: 206889

Ion Ratio Lower Upper

42 100

72 37.7 29.8 44.6

71 37.8 29.4 44.2



#42

Bromodichloromethane

Concen: 2.116 ppbv

RT: 7.243 min Scan# 1443

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

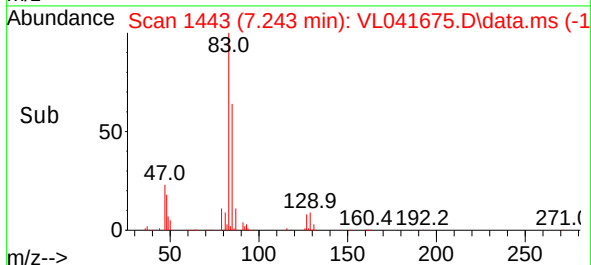
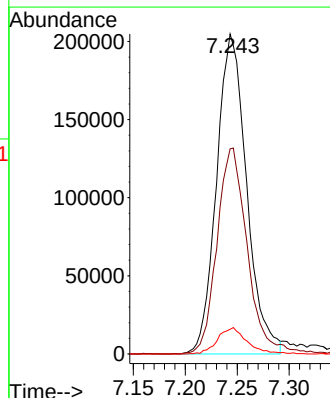
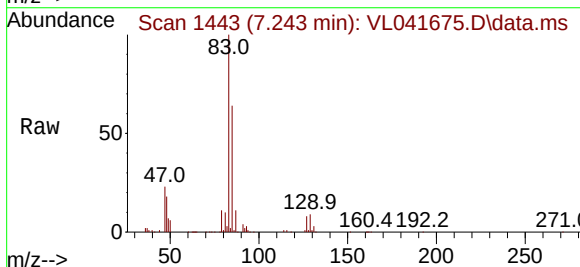
Tgt Ion: 83 Resp: 411846

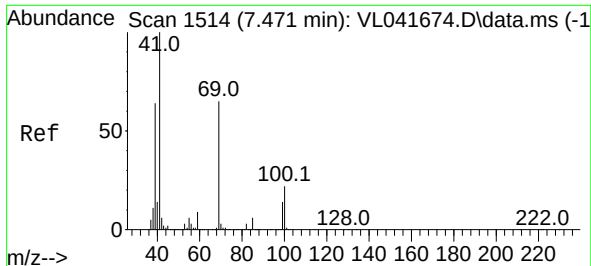
Ion Ratio Lower Upper

83 100

85 64.1 51.2 76.8

127 7.7 6.0 9.0





#43

Methyl Methacrylate

Concen: 2.140 ppbv

RT: 7.471 min Scan# 1514

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC002

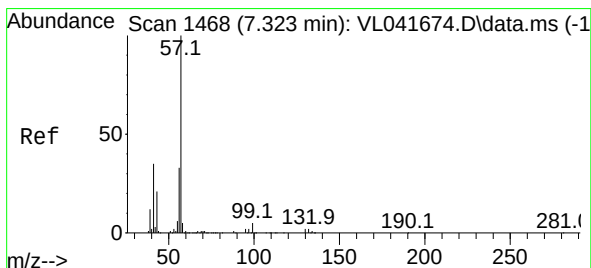
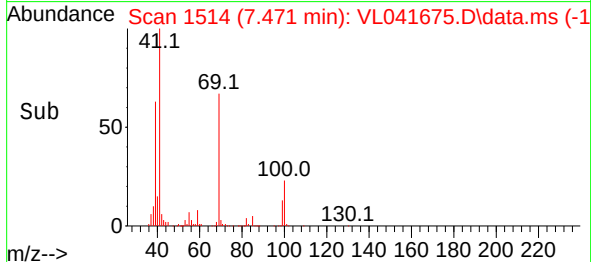
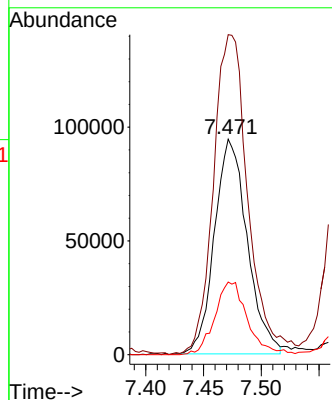
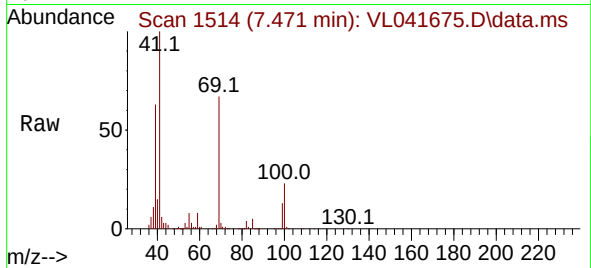
Tgt Ion: 69 Resp: 186557

Ion Ratio Lower Upper

69 100

41 157.8 119.8 179.6

100 33.6 27.3 40.9



#44

2,2,4-Trimethylpentane

Concen: 2.217 ppbv

RT: 7.323 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

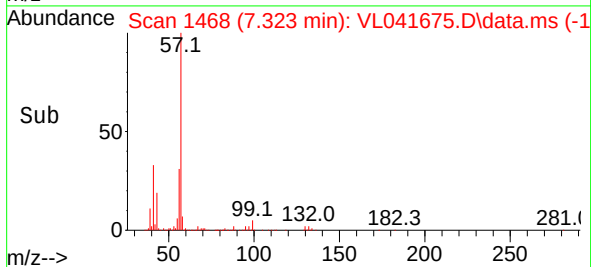
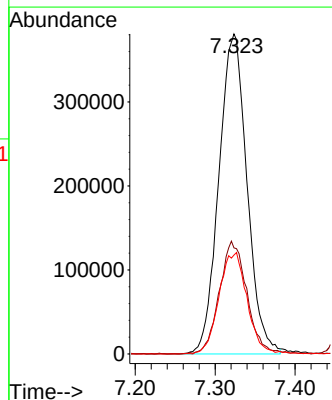
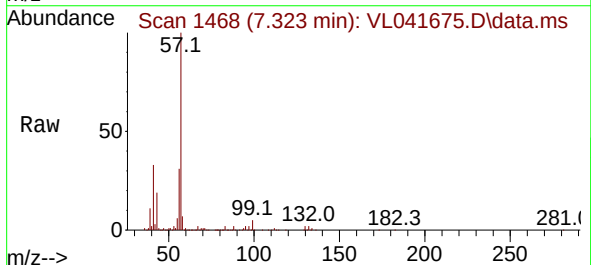
Tgt Ion: 57 Resp: 932386

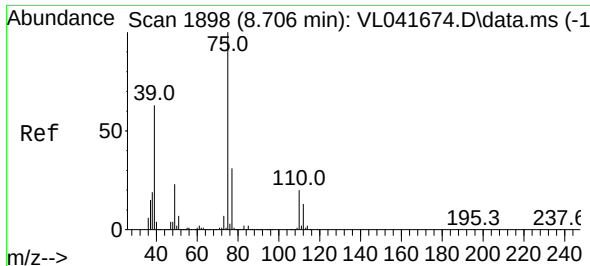
Ion Ratio Lower Upper

57 100

41 34.6 27.0 40.6

56 31.8 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 1.929 ppbv

RT: 8.709 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

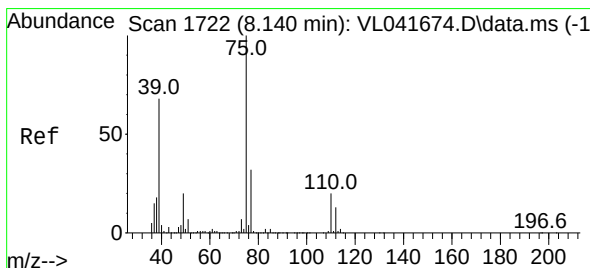
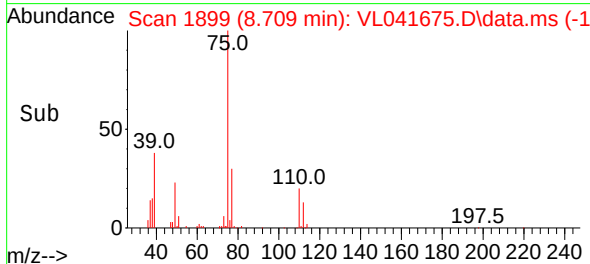
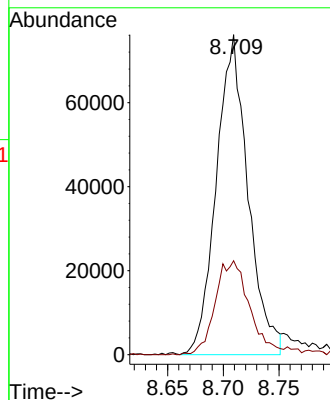
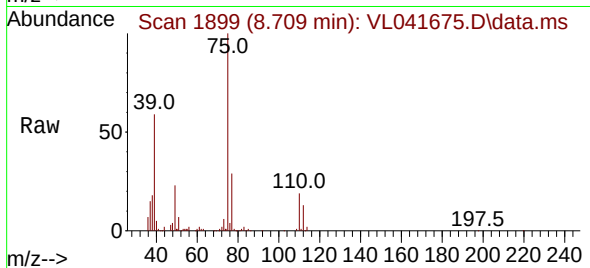
VSTDIC002

Tgt Ion: 75 Resp: 150360

Ion Ratio Lower Upper

75 100

77 29.4 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 2.069 ppbv

RT: 8.137 min Scan# 1721

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

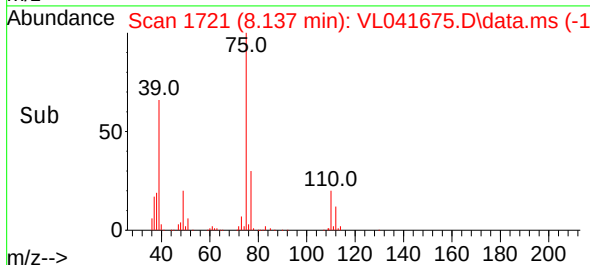
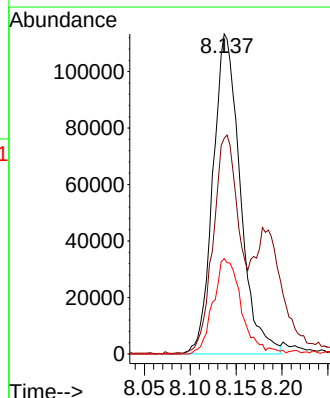
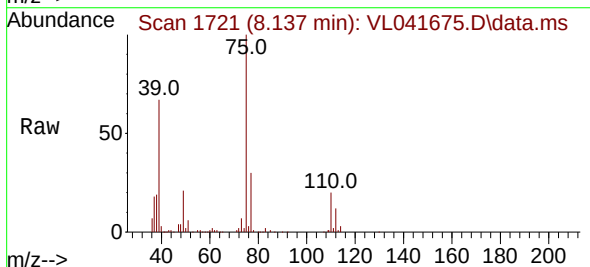
Tgt Ion: 75 Resp: 234294

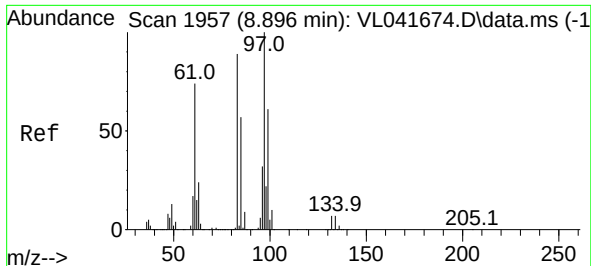
Ion Ratio Lower Upper

75 100

39 67.0 54.1 81.1

77 29.8 25.3 37.9





#47

1,1,2-Trichloroethane

Concen: 1.162 ppbv

RT: 8.893 min Scan# 1957

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 122915

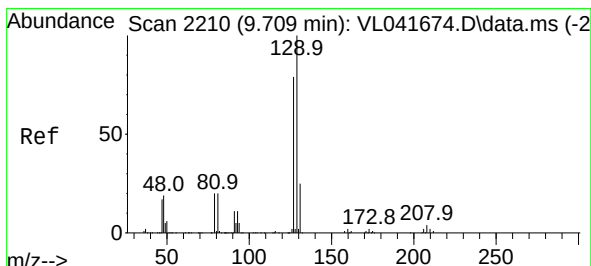
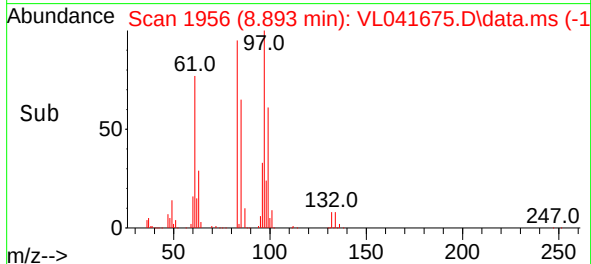
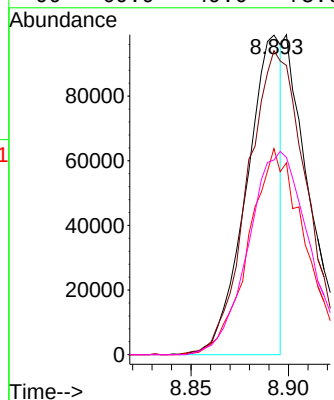
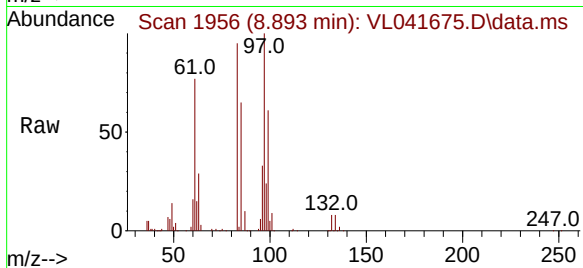
Ion Ratio Lower Upper

97 100

83 94.9 71.0 106.6

85 64.5 45.4 68.2

99 60.9 49.0 73.6



#48

Dibromochloromethane

Concen: 2.121 ppbv

RT: 9.703 min Scan# 2208

Delta R.T. -0.006 min

Lab File: VL041675.D

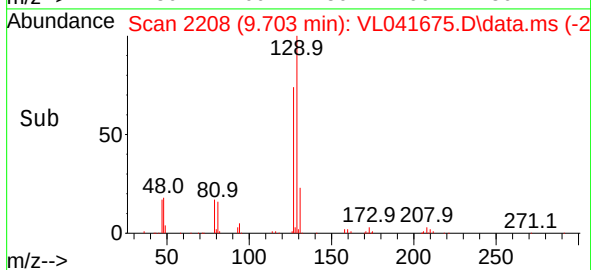
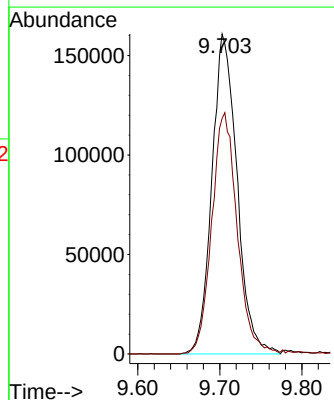
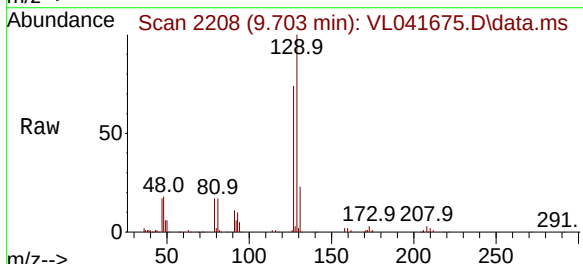
Acq: 7 Nov 2024 10:55

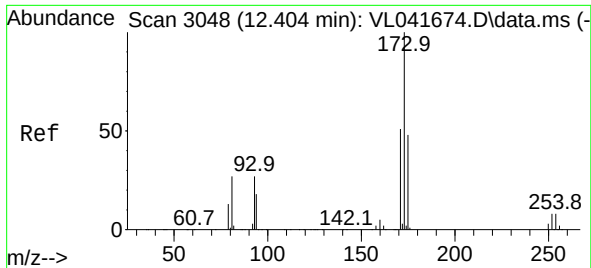
Tgt Ion: 129 Resp: 342372

Ion Ratio Lower Upper

129 100

127 77.3 39.1 117.2

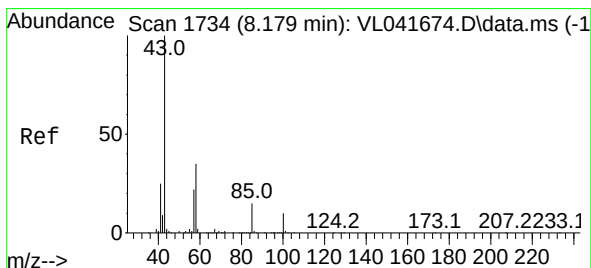
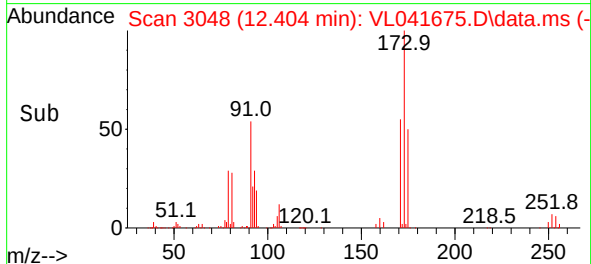
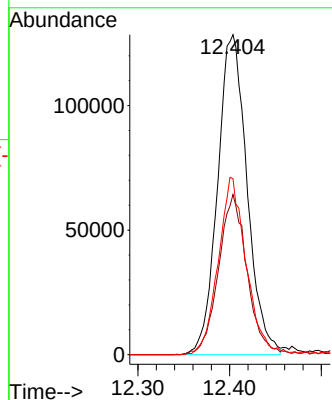
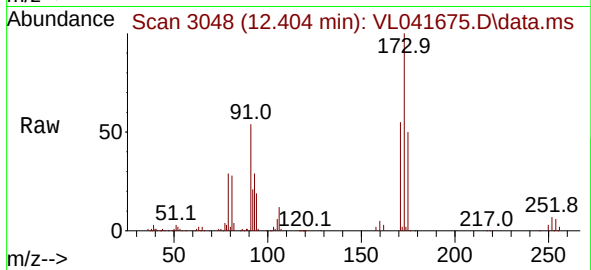




#49  
Bromoform  
Concen: 2.080 ppbv  
RT: 12.404 min Scan# 3048  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

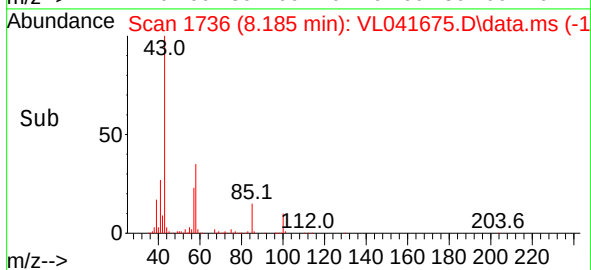
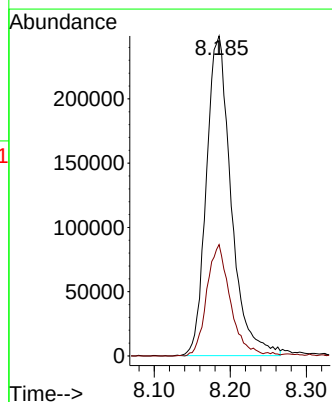
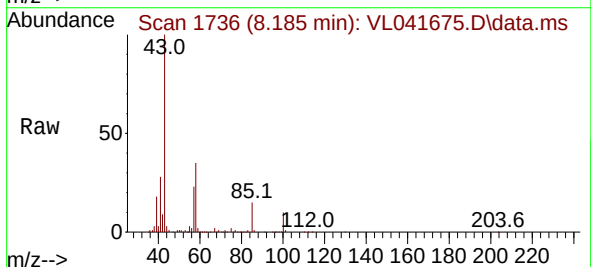
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

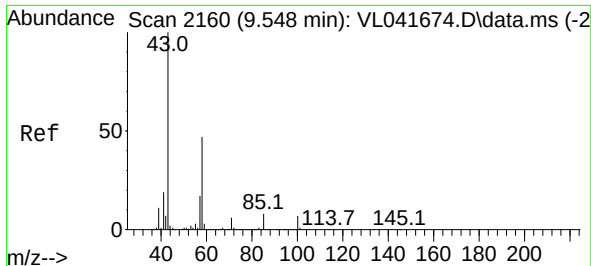
Tgt Ion:173 Resp: 286412  
Ion Ratio Lower Upper  
173 100  
175 48.9 39.2 58.8  
171 53.2 41.7 62.5



#50  
4-Methyl-2-Pentanone  
Concen: 2.198 ppbv  
RT: 8.185 min Scan# 1736  
Delta R.T. 0.006 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 43 Resp: 563317  
Ion Ratio Lower Upper  
43 100  
58 34.0 27.7 41.5

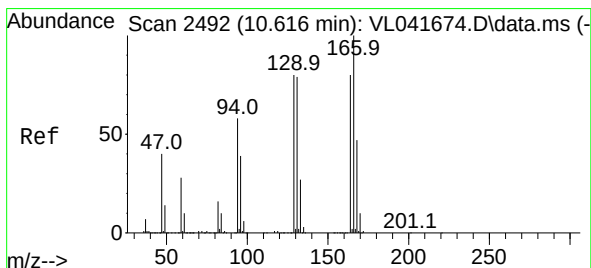
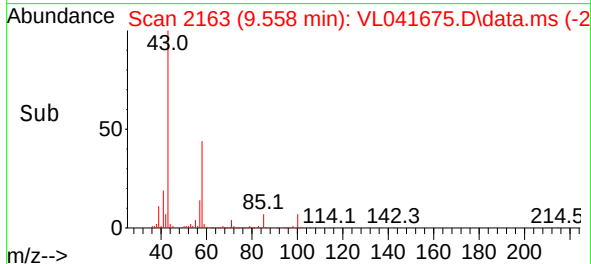
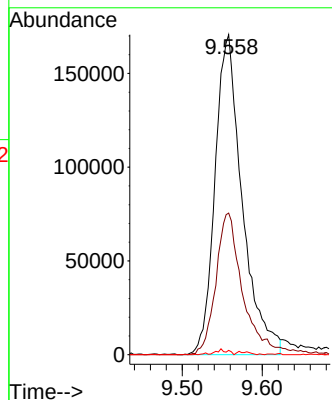
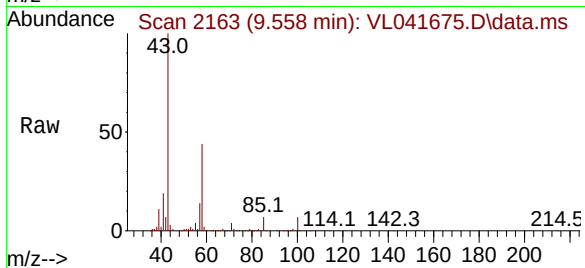




#51  
2-Hexanone  
Concen: 2.163 ppbv  
RT: 9.558 min Scan# 2160  
Delta R.T. 0.010 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

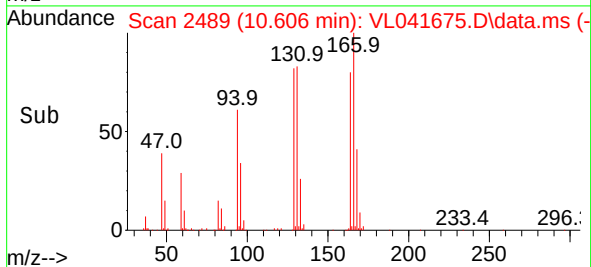
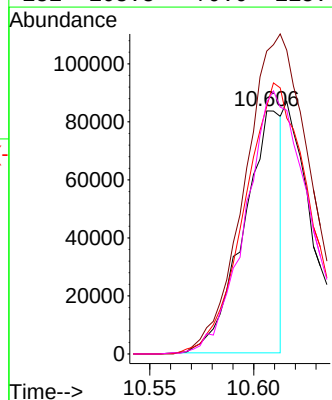
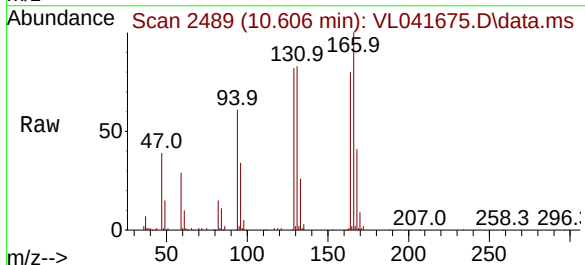
Instrument : MSVOA\_L  
ClientSampleId : VSTDICC002

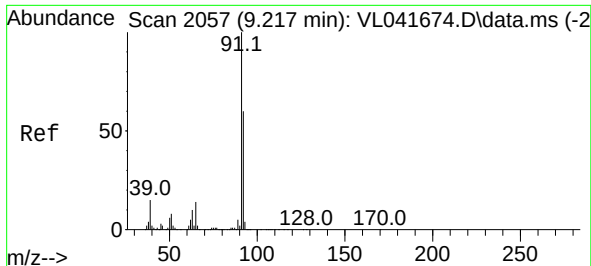
Tgt Ion: 43 Resp: 402751  
Ion Ratio Lower Upper  
43 100  
58 44.3 37.0 55.6  
98 0.8 0.6 0.8



#52  
Tetrachloroethene  
Concen: 1.246 ppbv  
RT: 10.606 min Scan# 2489  
Delta R.T. -0.010 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 164 Resp: 105734  
Ion Ratio Lower Upper  
164 100  
166 124.4 100.2 150.4  
129 101.6 79.7 119.5  
131 103.8 79.0 118.4





#53

Toluene

Concen: 2.161 ppbv

RT: 9.220 min Scan# 2057

Delta R.T. 0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

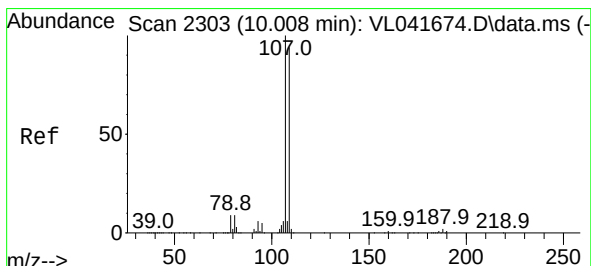
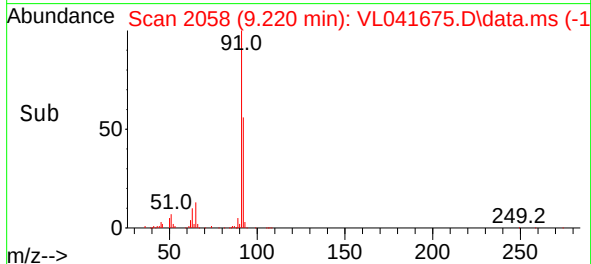
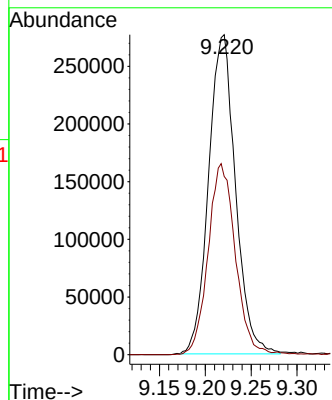
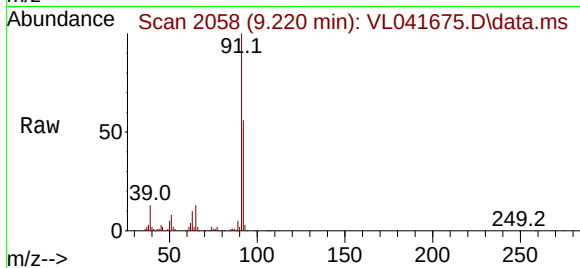
VSTDIC002

Tgt Ion: 91 Resp: 564332

Ion Ratio Lower Upper

91 100

92 61.0 49.0 73.4



#54

1,2-Dibromoethane

Concen: 2.262 ppbv

RT: 10.005 min Scan# 2302

Delta R.T. -0.003 min

Lab File: VL041675.D

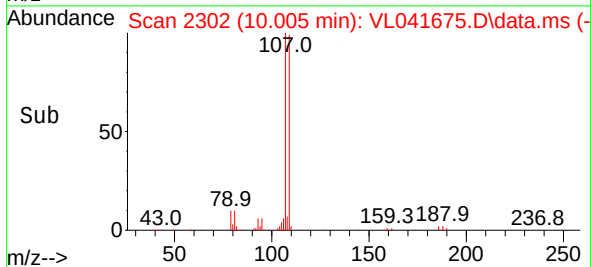
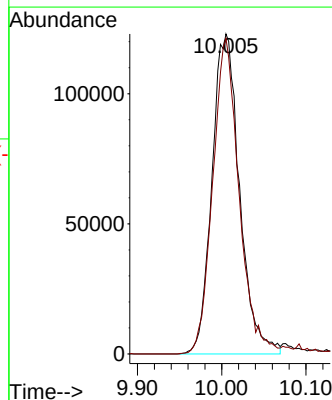
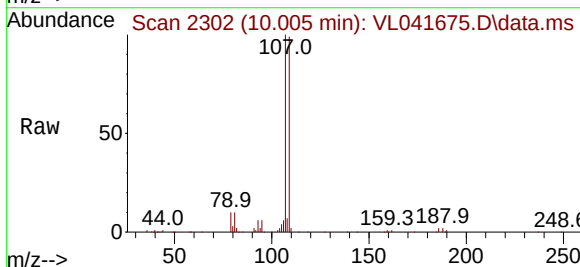
Acq: 7 Nov 2024 10:55

Tgt Ion: 107 Resp: 279460

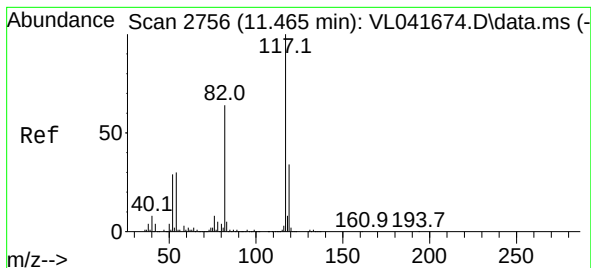
Ion Ratio Lower Upper

107 100

109 98.4 74.9 112.3



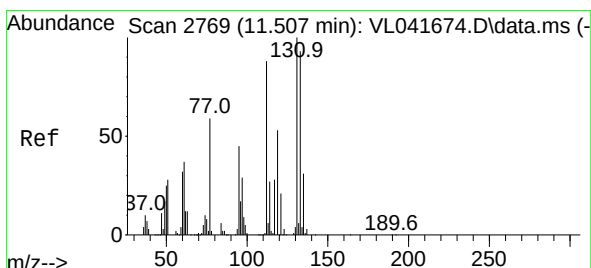
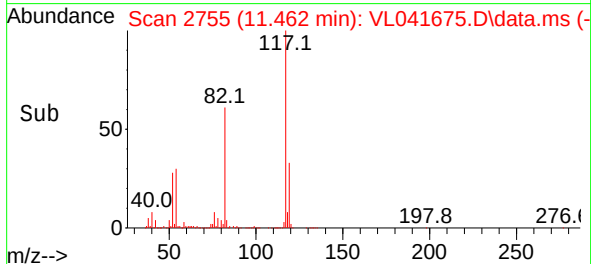
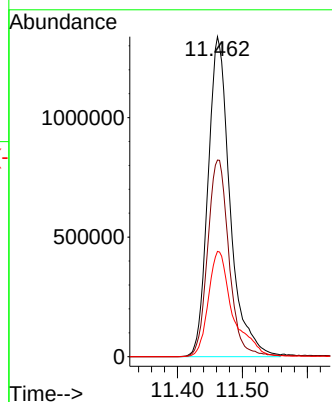
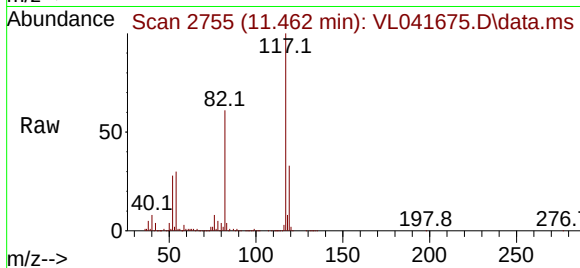




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.462 min Scan# 2755  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

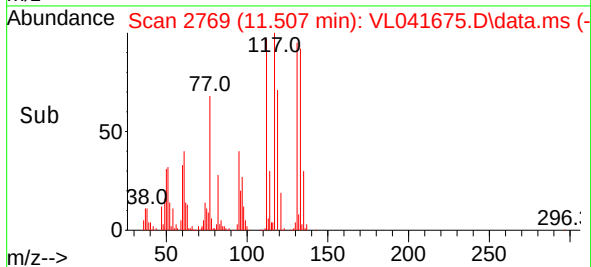
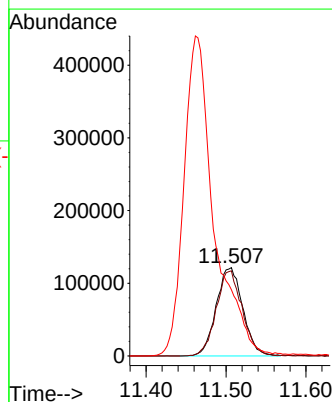
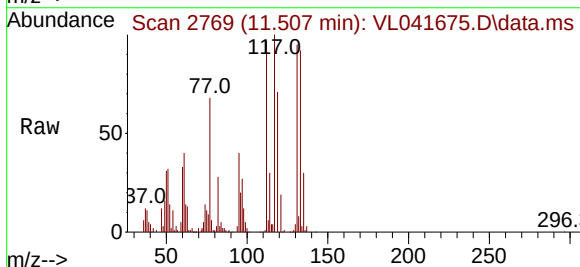
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

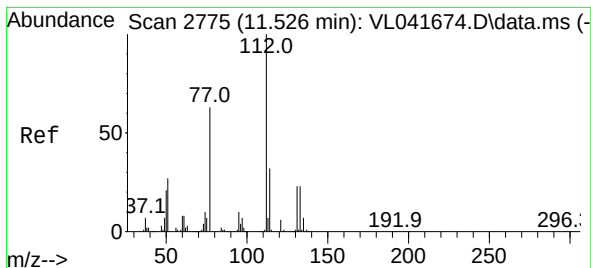
Tgt Ion:117 Resp: 3155486  
Ion Ratio Lower Upper  
117 100  
82 60.0 49.8 74.8  
119 36.8 24.2 36.4#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 2.130 ppbv  
RT: 11.507 min Scan# 2769  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion:131 Resp: 279872  
Ion Ratio Lower Upper  
131 100  
133 94.8 76.5 114.7  
119 414.0 49.8 74.8#

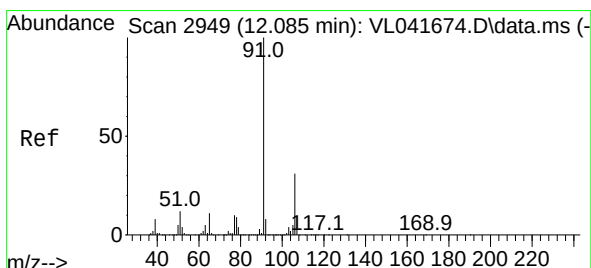
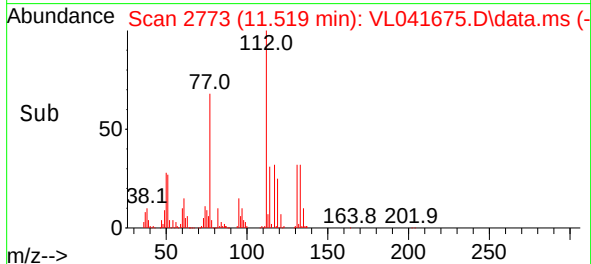
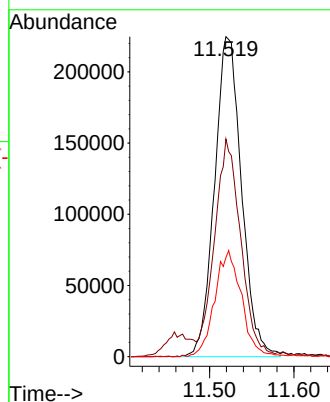
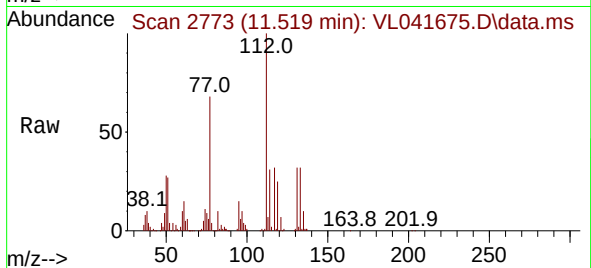




#57  
Chlorobenzene  
Concen: 2.128 ppbv  
RT: 11.519 min Scan# 211  
Delta R.T. -0.006 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

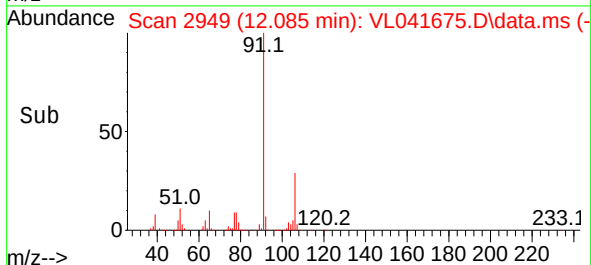
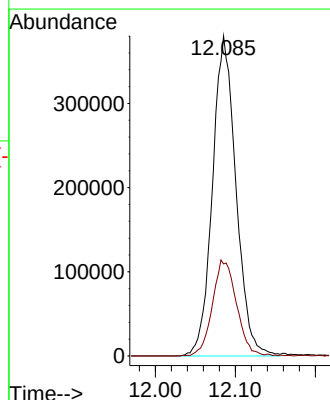
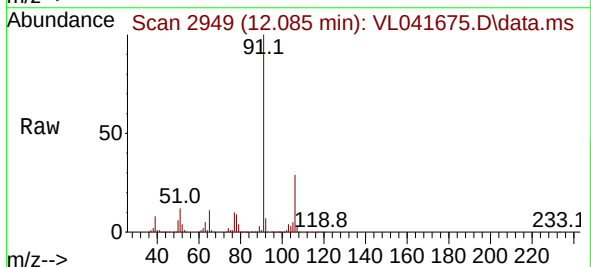
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

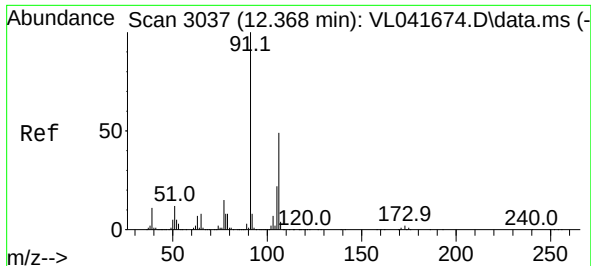
Tgt Ion:112 Resp: 500524  
Ion Ratio Lower Upper  
112 100  
77 66.6 51.4 77.2  
114 31.0 28.4 34.8



#58  
Ethyl Benzene  
Concen: 2.225 ppbv  
RT: 12.085 min Scan# 2949  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 91 Resp: 777614  
Ion Ratio Lower Upper  
91 100  
106 28.7 24.9 37.3





#59

m/p-Xylene

Concen: 2.288 ppbv

RT: 12.368 min Scan# 3037

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_1

ClientSampleId :

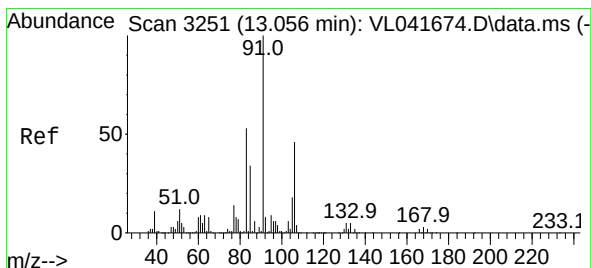
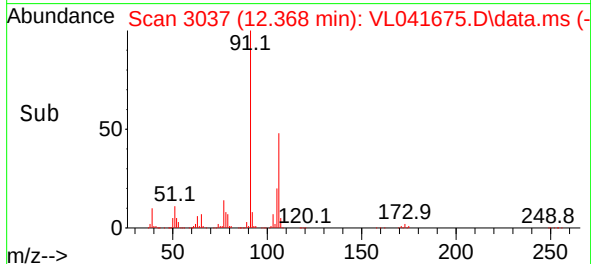
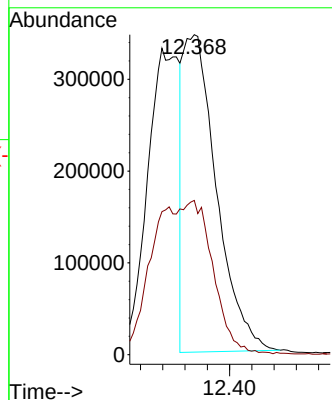
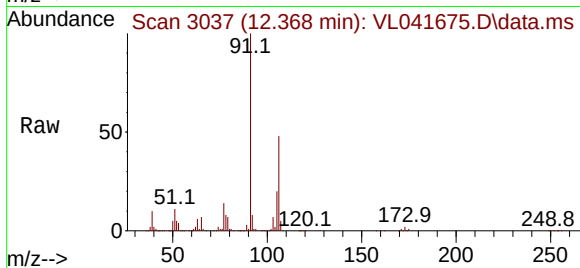
VSTDIC002

Tgt Ion: 91 Resp: 715565

Ion Ratio Lower Upper

91 100

106 88.9 36.9 55.3#



#60

o-Xylene

Concen: 2.258 ppbv

RT: 13.053 min Scan# 3250

Delta R.T. -0.003 min

Lab File: VL041675.D

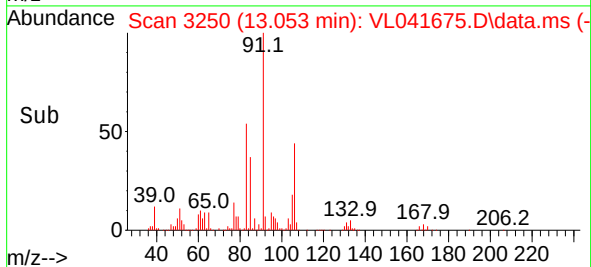
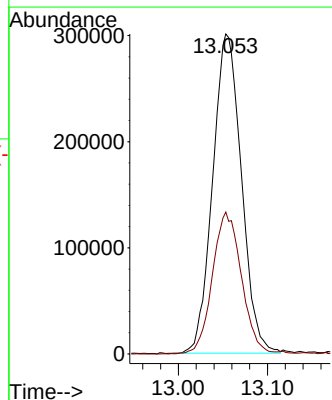
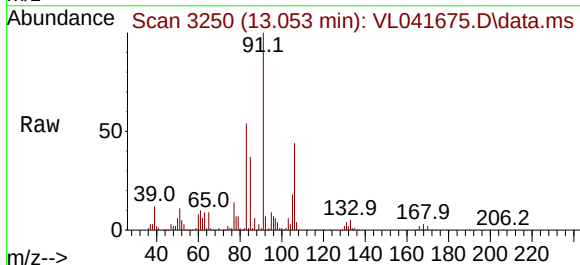
Acq: 7 Nov 2024 10:55

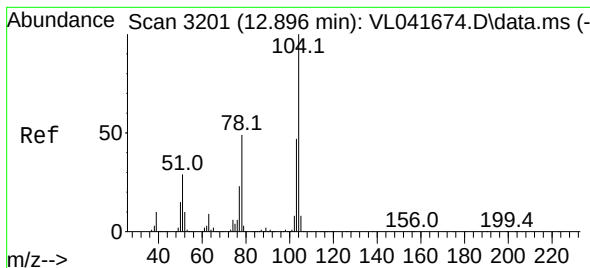
Tgt Ion: 91 Resp: 674003

Ion Ratio Lower Upper

91 100

106 45.4 23.2 69.6





#61

Styrene

Concen: 2.133 ppbv

RT: 12.892 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

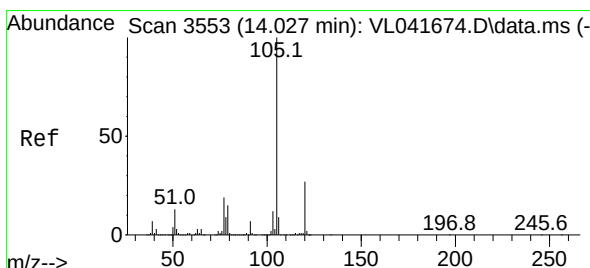
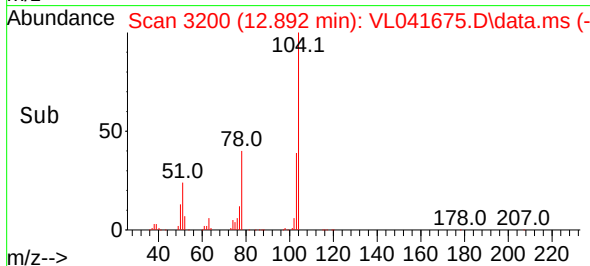
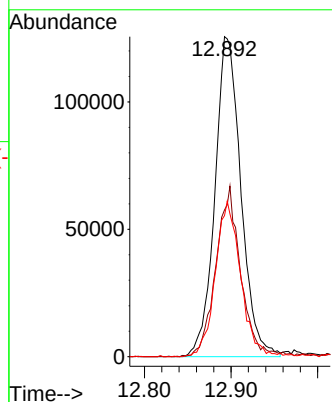
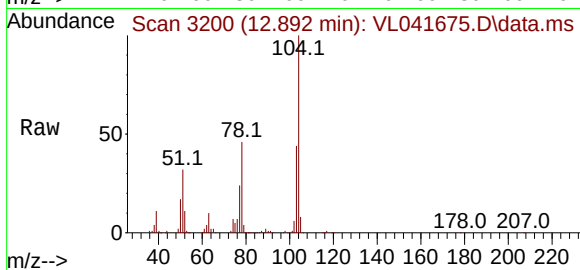
Tgt Ion:104 Resp: 262837

Ion Ratio Lower Upper

104 100

78 51.3 39.8 59.8

103 47.7 37.4 56.0



#62

Isopropylbenzene

Concen: 2.236 ppbv

RT: 14.024 min Scan# 3552

Delta R.T. -0.003 min

Lab File: VL041675.D

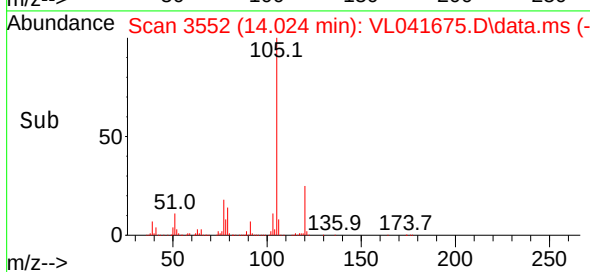
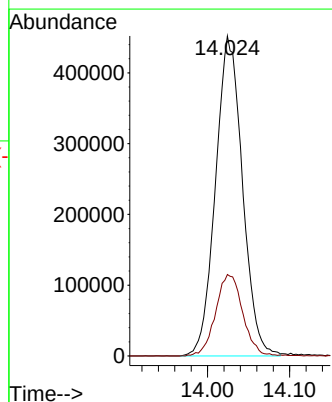
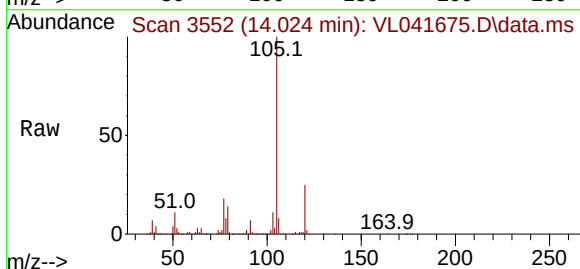
Acq: 7 Nov 2024 10:55

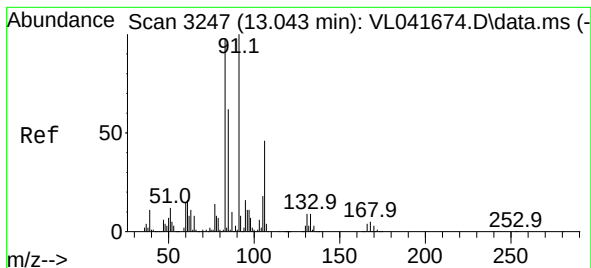
Tgt Ion:105 Resp: 1030511

Ion Ratio Lower Upper

105 100

120 25.8 21.1 31.7

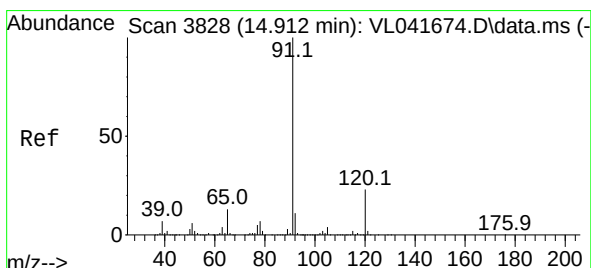
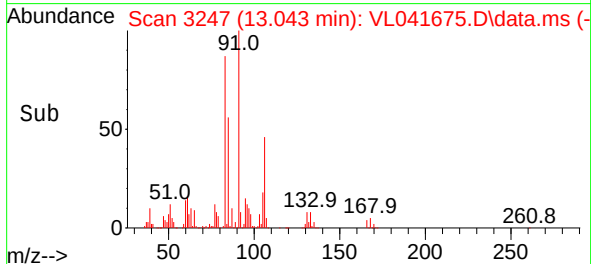
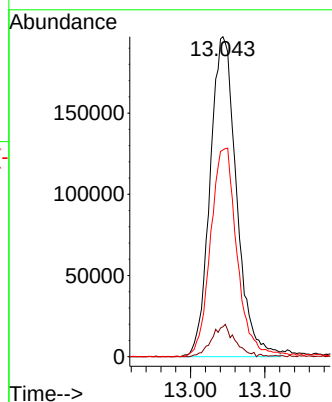
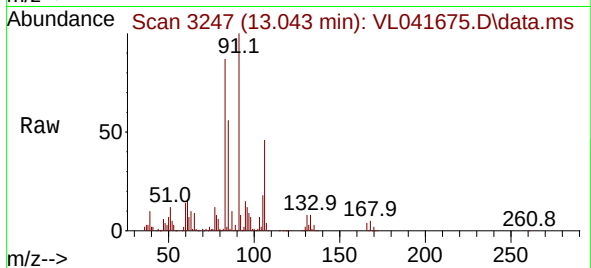




#63  
1,1,2,2-Tetrachloroethane  
Concen: 2.245 ppbv  
RT: 13.043 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

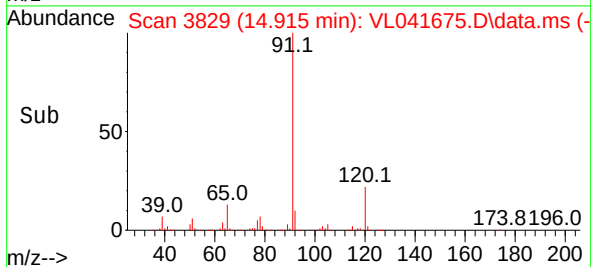
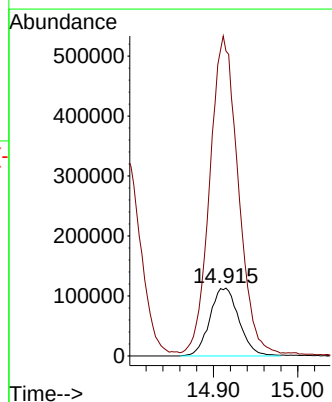
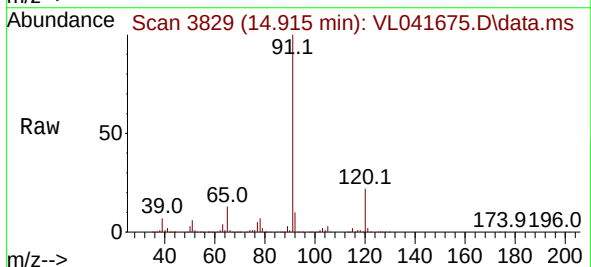
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

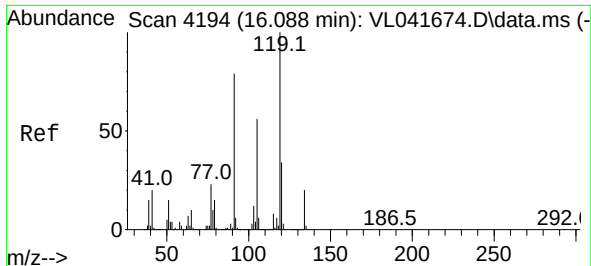
Tgt Ion: 83 Resp: 488021  
Ion Ratio Lower Upper  
83 100  
131 8.9 4.8 14.3  
85 66.1 32.6 98.0



#64  
n-propylbenzene  
Concen: 2.251 ppbv  
RT: 14.915 min Scan# 3829  
Delta R.T. 0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion:120 Resp: 271271  
Ion Ratio Lower Upper  
120 100  
91 469.1 362.4 543.6





#65

tert-Butylbenzene

Concen: 2.290 ppbv

RT: 16.085 min Scan# 4194

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

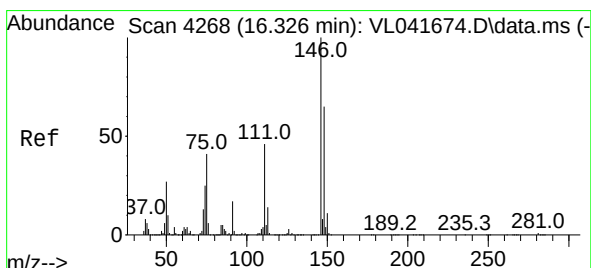
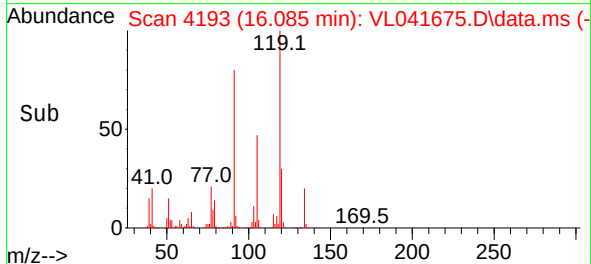
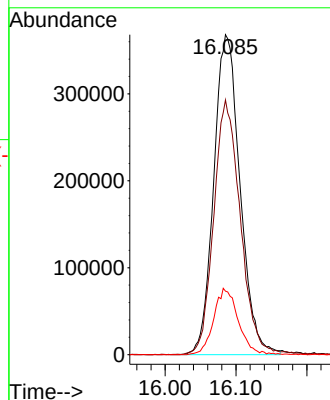
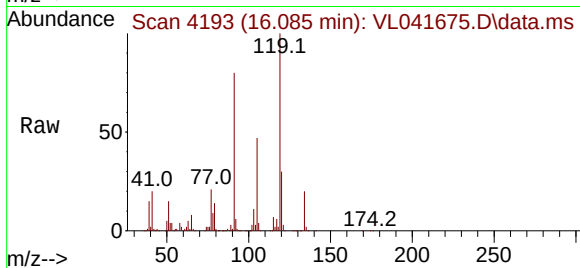
Tgt Ion:119 Resp: 948395

Ion Ratio Lower Upper

119 100

91 81.0 64.3 96.5

134 19.5 15.8 23.8



#66

Benzyl Chloride

Concen: 1.759 ppbv

RT: 16.326 min Scan# 4268

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

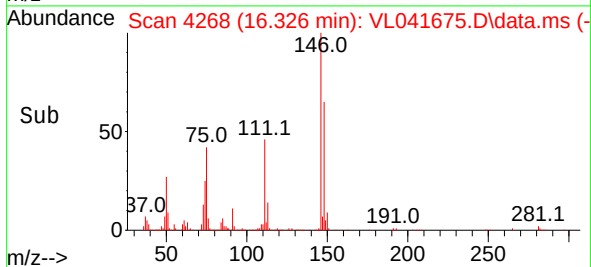
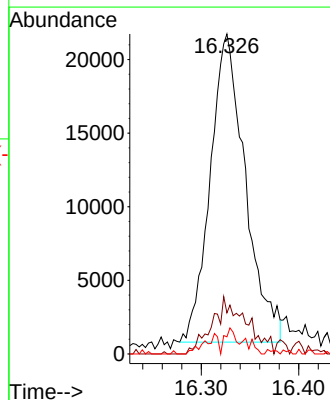
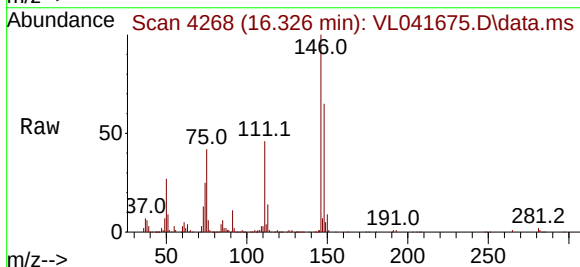
Tgt Ion: 91 Resp: 52484

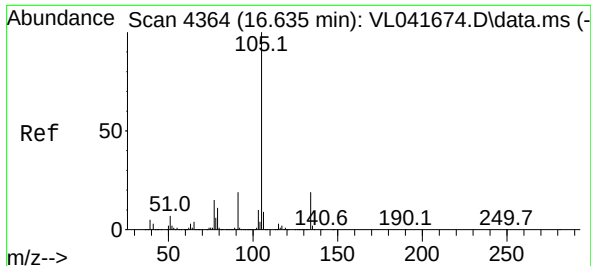
Ion Ratio Lower Upper

91 100

126 19.1 13.8 20.6

128 6.9 4.3 6.5#





#67

sec-Butylbenzene

Concen: 2.312 ppbv

RT: 16.632 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

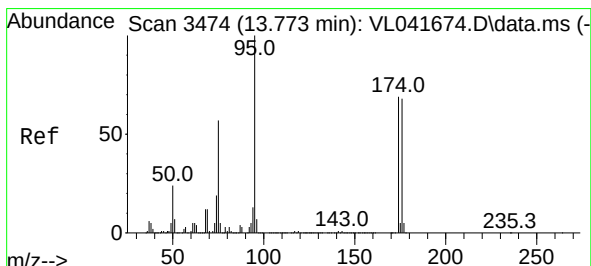
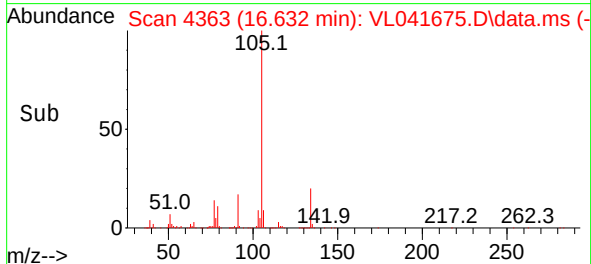
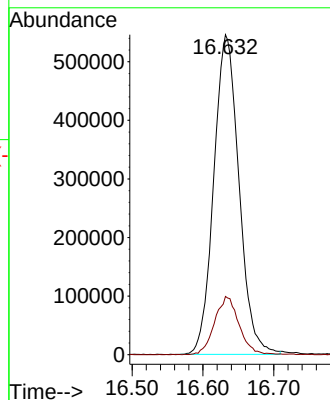
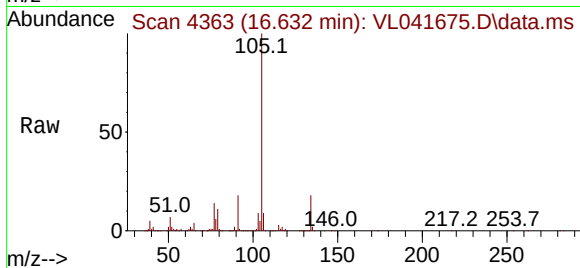
VSTDICC002

Tgt Ion:105 Resp: 1349679

Ion Ratio Lower Upper

105 100

134 17.8 14.6 22.0



#68

1-Bromo-4-Fluorobenzene

Concen: 9.764 ppbv

RT: 13.773 min Scan# 3474

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

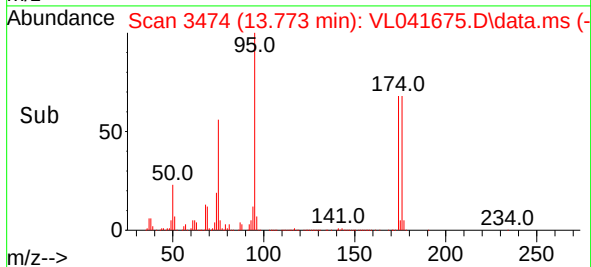
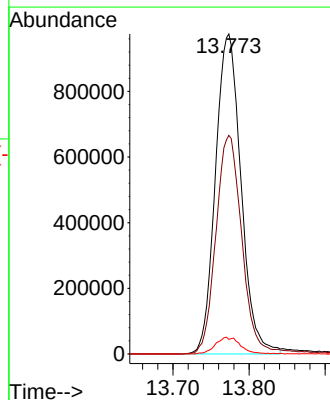
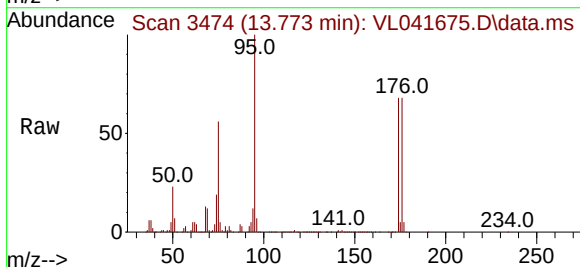
Tgt Ion: 95 Resp: 2278471

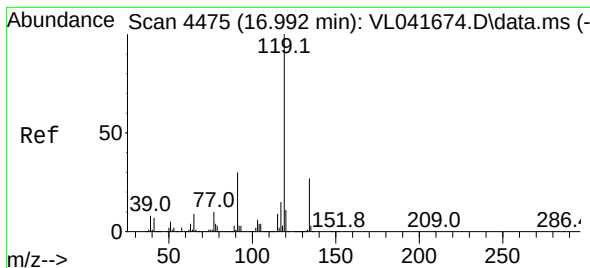
Ion Ratio Lower Upper

95 100

174 70.4 55.6 83.4

175 5.1 4.2 6.2

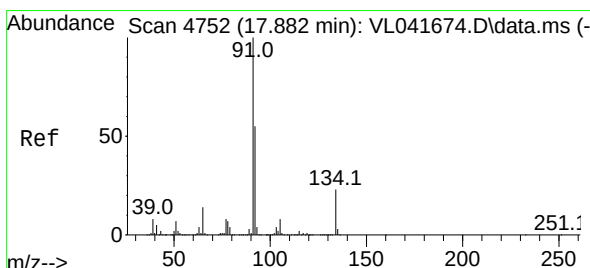
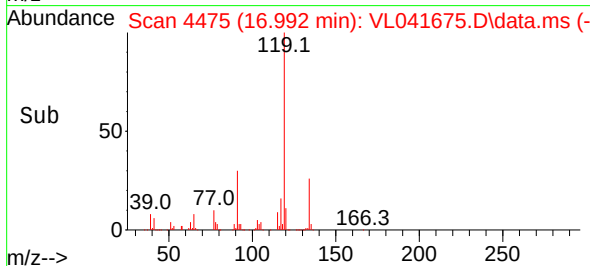
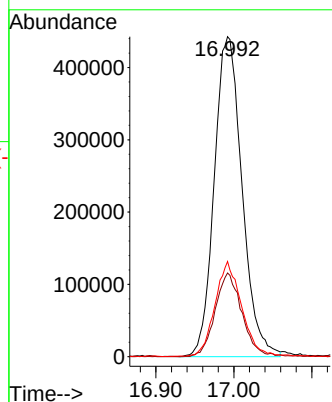
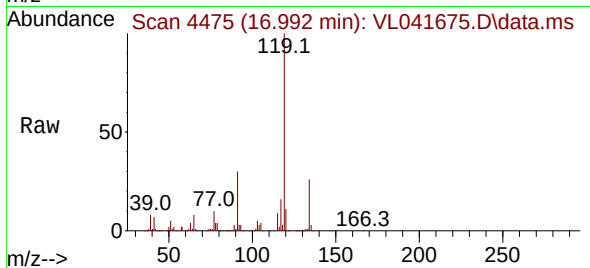




#69  
 p-Isopropyltoluene  
 Concen: 2.324 ppbv  
 RT: 16.992 min Scan# 4475  
 Delta R.T. 0.000 min  
 Lab File: VL041675.D  
 Acq: 7 Nov 2024 10:55

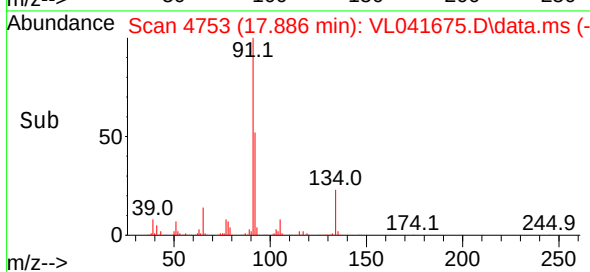
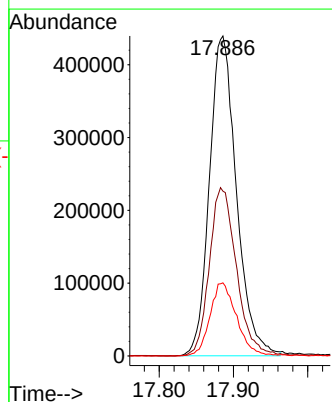
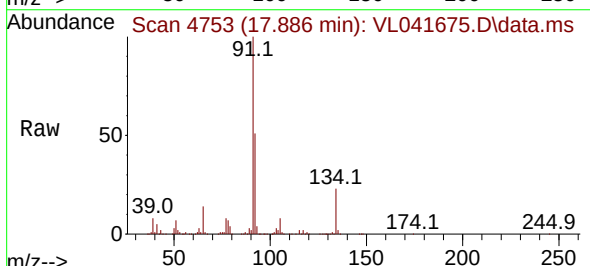
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

Tgt Ion:119 Resp: 1097205  
 Ion Ratio Lower Upper  
 119 100  
 134 25.4 20.8 31.2  
 91 28.6 23.2 34.8

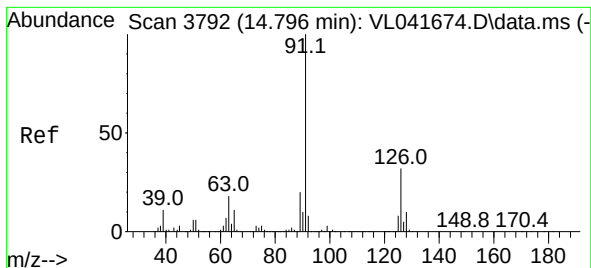


#70  
 n-Butylbenzene  
 Concen: 2.293 ppbv  
 RT: 17.886 min Scan# 4753  
 Delta R.T. 0.003 min  
 Lab File: VL041675.D  
 Acq: 7 Nov 2024 10:55

Tgt Ion: 91 Resp: 1109618  
 Ion Ratio Lower Upper  
 91 100  
 92 53.4 43.3 64.9  
 134 22.9 18.4 27.6



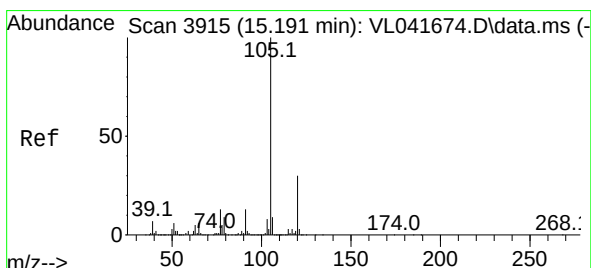
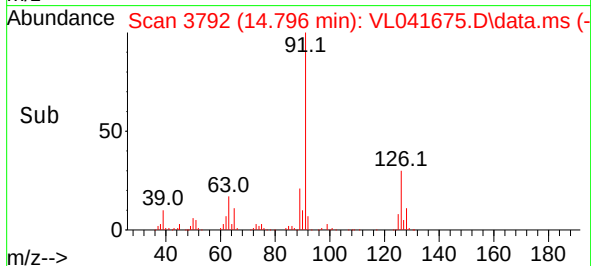
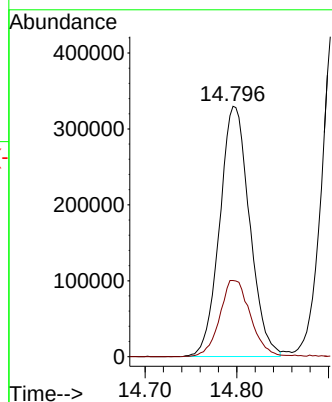
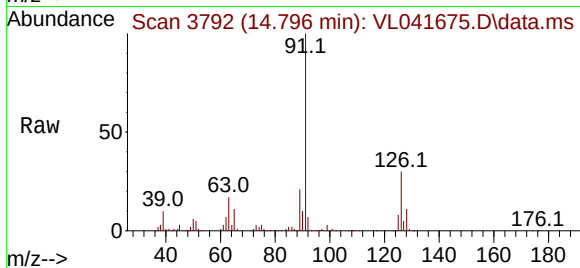




#71  
2-Chlorotoluene  
Concen: 2.238 ppbv  
RT: 14.796 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

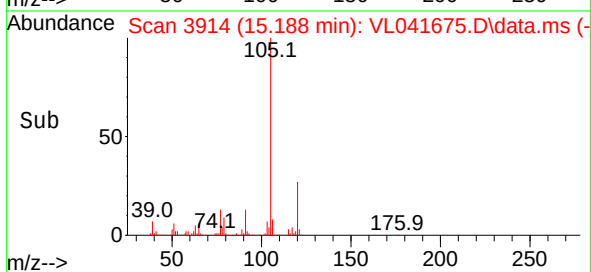
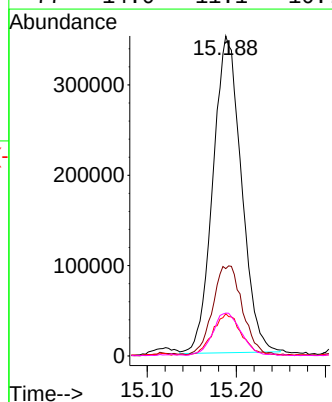
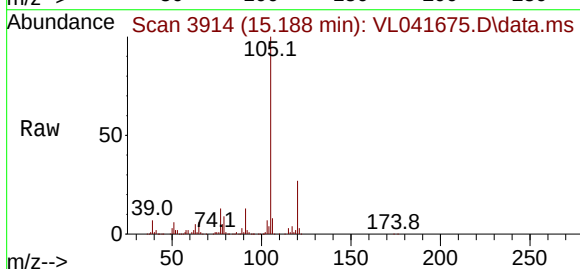
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

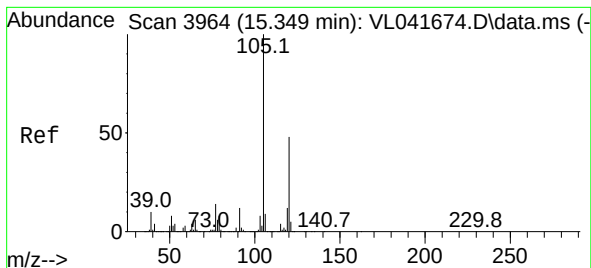
Tgt Ion: 91 Resp: 745884  
Ion Ratio Lower Upper  
91 100  
126 31.7 12.8 51.0



#72  
4-Ethyltoluene  
Concen: 2.244 ppbv  
RT: 15.188 min Scan# 3914  
Delta R.T. -0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion: 105 Resp: 777952  
Ion Ratio Lower Upper  
105 100  
120 31.1 25.0 37.4  
91 13.5 10.6 15.8  
77 14.0 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 2.274 ppbv

RT: 15.346 min Scan# 3964

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

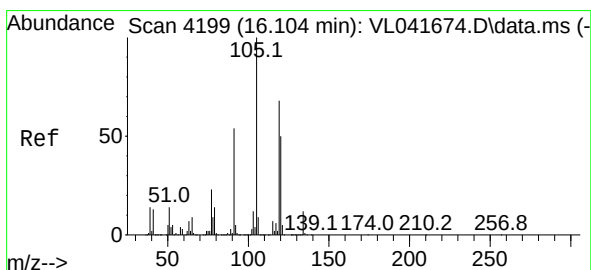
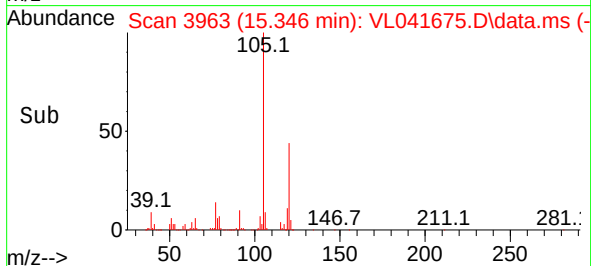
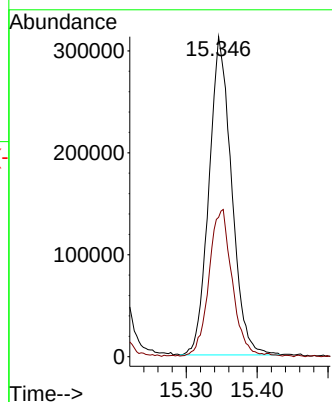
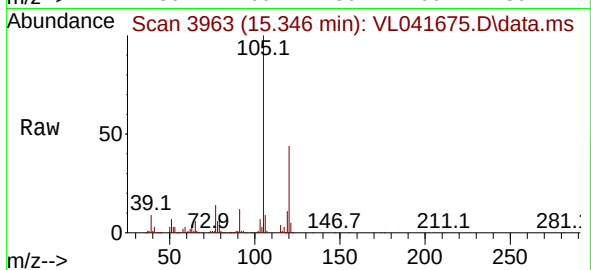
VSTDIC002

Tgt Ion:105 Resp: 691387

Ion Ratio Lower Upper

105 100

120 43.6 38.4 57.6



#74

1,2,4-Trimethylbenzene

Concen: 2.252 ppbv

RT: 16.101 min Scan# 4198

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Tgt Ion:105 Resp: 796450

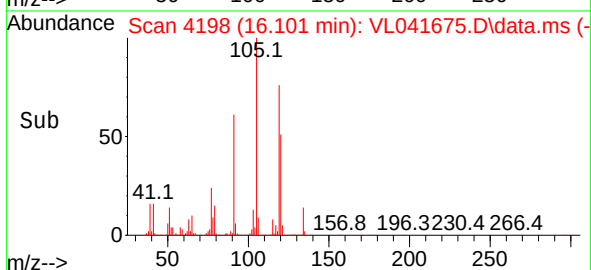
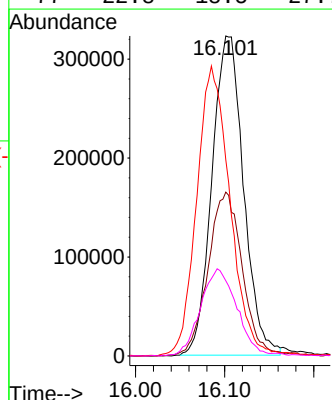
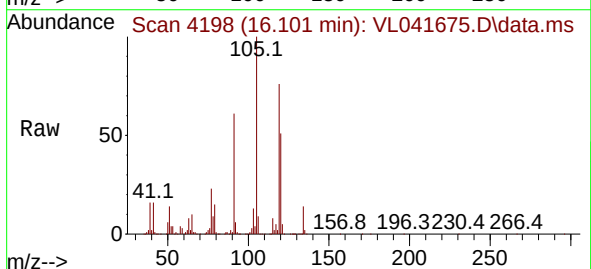
Ion Ratio Lower Upper

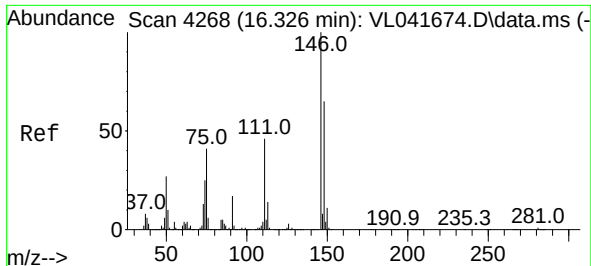
105 100

120 50.3 39.8 59.8

91 60.5 43.2 64.8

77 22.8 18.5 27.7

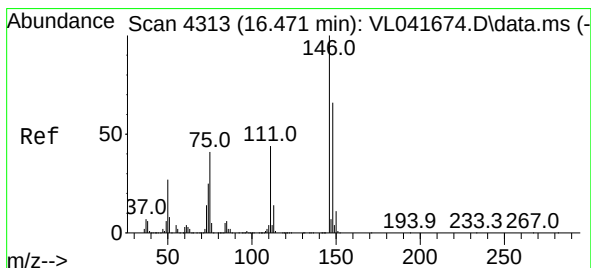
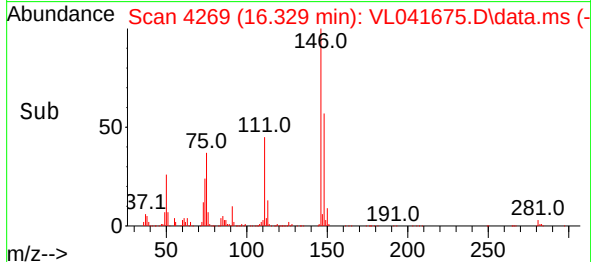
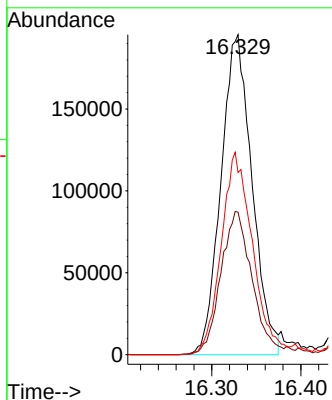
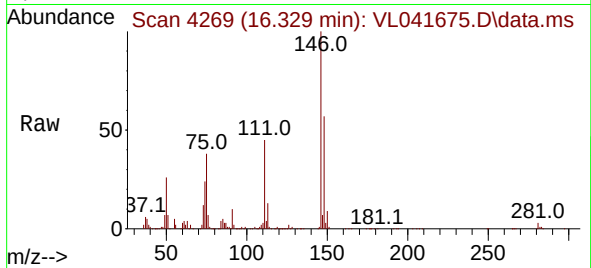




#75  
1,3-Dichlorobenzene  
Concen: 2.167 ppbv  
RT: 16.329 min Scan# 4268  
Delta R.T. 0.003 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

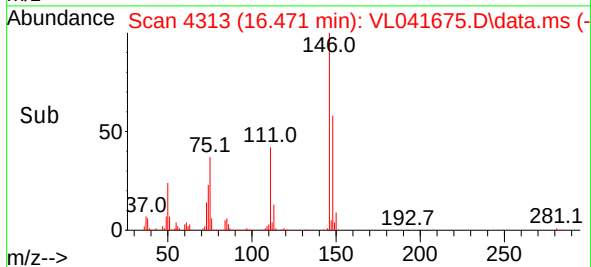
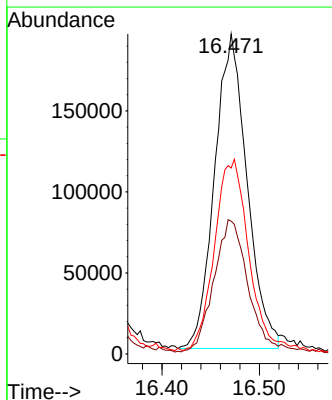
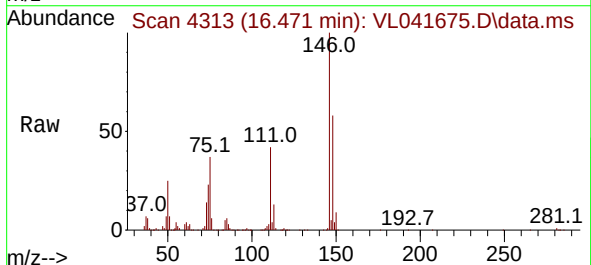
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

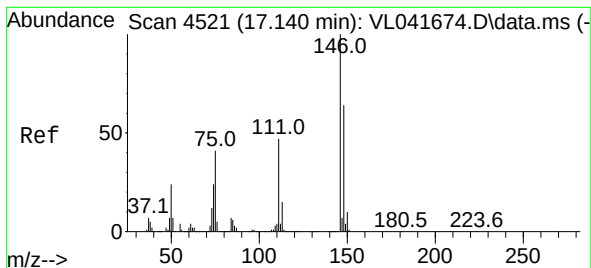
Tgt Ion:146 Resp: 473241  
Ion Ratio Lower Upper  
146 100  
111 46.4 22.8 68.3  
148 65.2 32.4 97.0



#76  
1,4-Dichlorobenzene  
Concen: 2.091 ppbv  
RT: 16.471 min Scan# 4313  
Delta R.T. 0.000 min  
Lab File: VL041675.D  
Acq: 7 Nov 2024 10:55

Tgt Ion:146 Resp: 448788  
Ion Ratio Lower Upper  
146 100  
111 47.2 22.1 66.3  
148 67.7 33.3 99.8





#77

1,2-Dichlorobenzene

Concen: 2.149 ppbv

RT: 17.140 min Scan# 4521

Delta R.T. 0.000 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

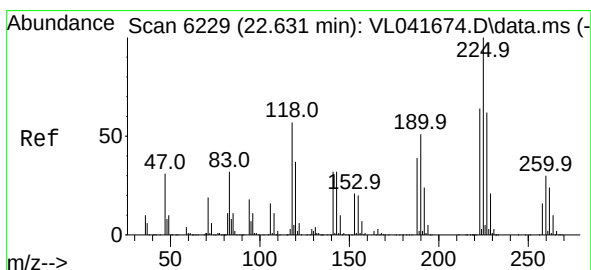
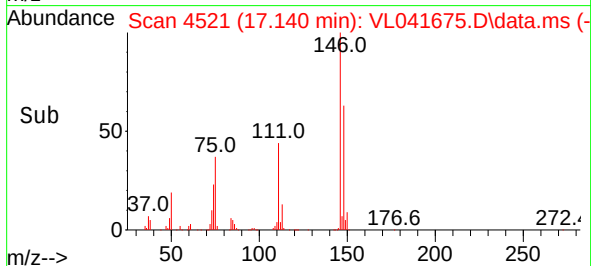
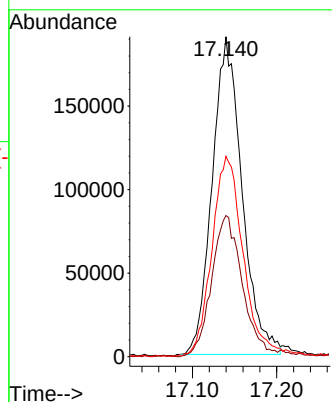
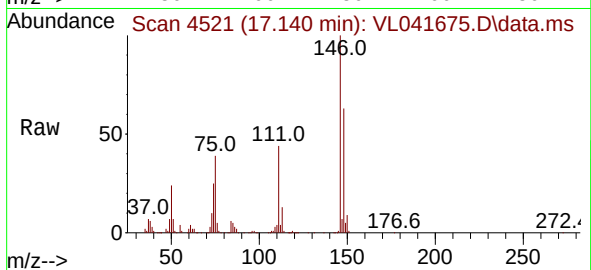
Tgt Ion:146 Resp: 466190

Ion Ratio Lower Upper

146 100

111 47.4 23.4 70.3

148 67.2 32.1 96.5



#78

Hexachloro-1,3-Butadiene

Concen: 2.144 ppbv

RT: 22.628 min Scan# 6228

Delta R.T. -0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

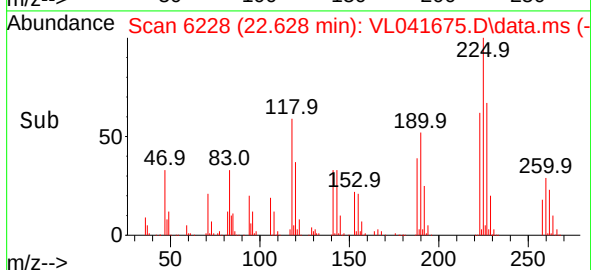
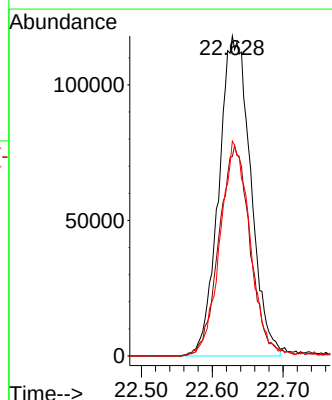
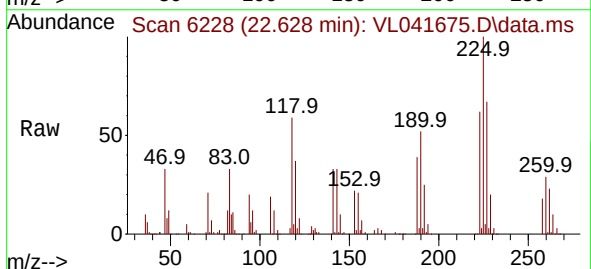
Tgt Ion:225 Resp: 367865

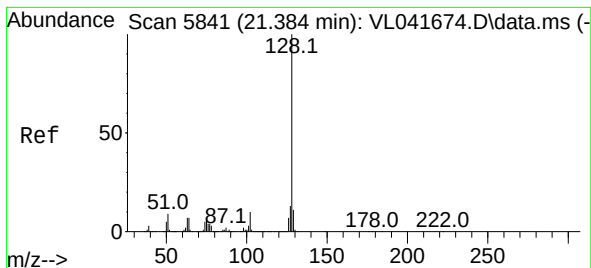
Ion Ratio Lower Upper

225 100

223 65.0 51.1 76.7

227 63.6 51.3 76.9





#79

Naphthalene

Concen: 2.478 ppbv

RT: 21.387 min Scan# 5841

Delta R.T. 0.003 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC002

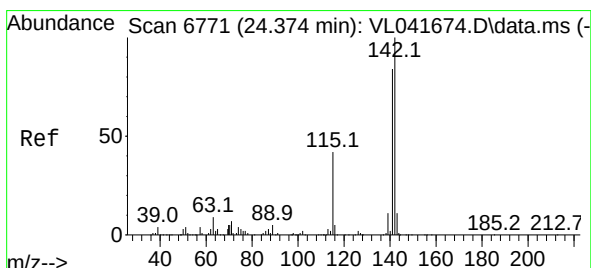
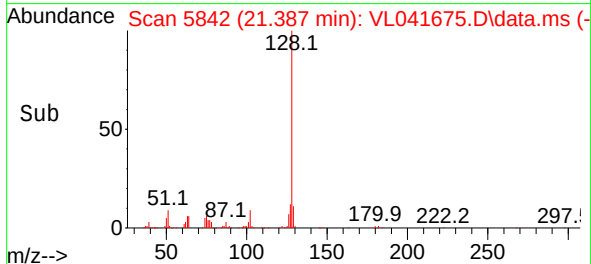
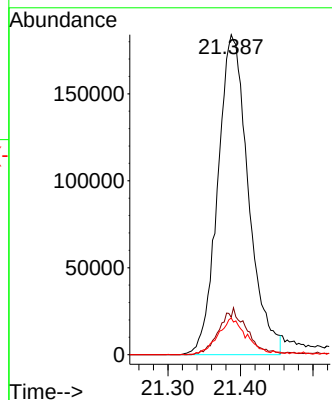
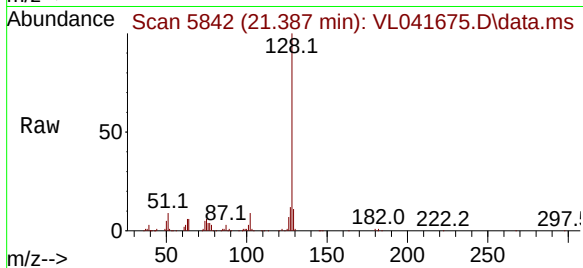
Tgt Ion:128 Resp: 538842

Ion Ratio Lower Upper

128 100

127 11.7 10.5 15.7

129 11.4 8.7 13.1



#80

Naphthalene,2-methyl-

Concen: 2.513 ppbv

RT: 24.381 min Scan# 6773

Delta R.T. 0.006 min

Lab File: VL041675.D

Acq: 7 Nov 2024 10:55

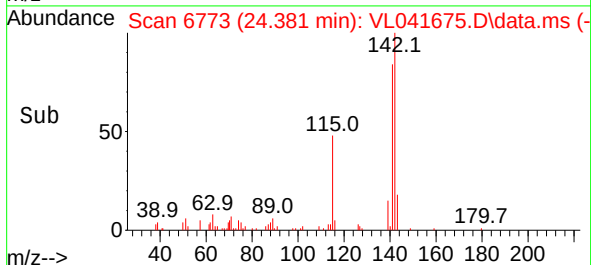
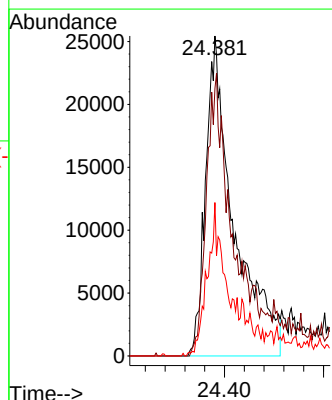
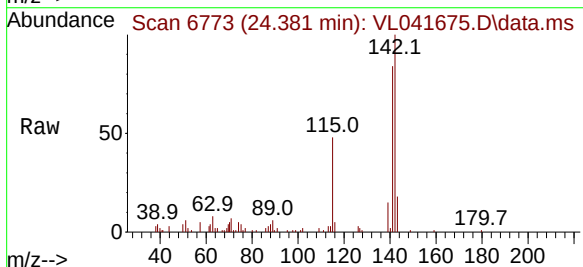
Tgt Ion:142 Resp: 101409

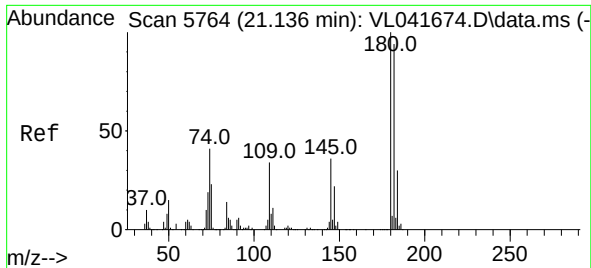
Ion Ratio Lower Upper

142 100

141 88.0 68.1 102.1

115 37.6 33.1 49.7





#81

1,2,4-Trichlorobenzene

Concen: 2.127 ppbv

RT: 21.143 min Scan# 5

Delta R.T. 0.006 min

Lab File: VL041675.D

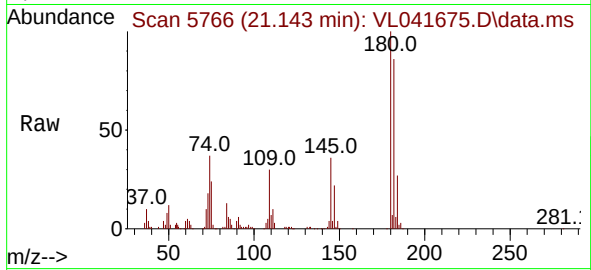
Acq: 7 Nov 2024 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002



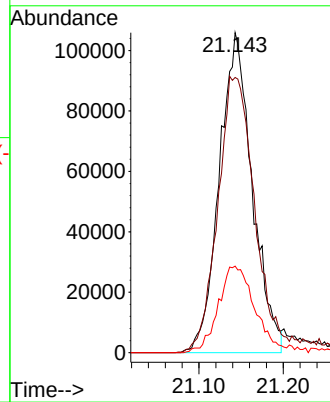
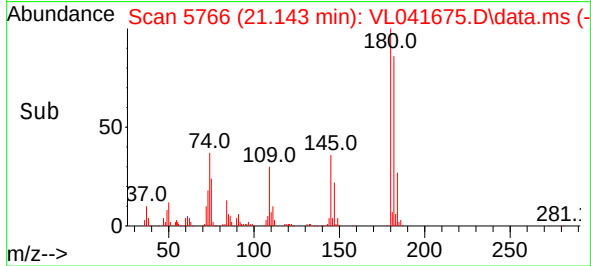
Tgt Ion:180 Resp: 287687

Ion Ratio Lower Upper

180 100

182 99.1 78.2 117.2

184 30.6 25.0 37.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041676.D  
 Acq On : 7 Nov 2024 11:34  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Nov 08 00:10:33 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.185  | 49   | 1184622  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.648  | 114  | 3332226  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.465 | 117  | 3067671  | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.773 95 2285234 10.073 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.700%

#### Target Compounds

|                               |       |     |        |              | Qvalue |
|-------------------------------|-------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane    | 2.726 | 85  | 181618 | 0.848 ppbv   | 98     |
| 3) Chlorodifluoromethane      | 2.671 | 51  | 164131 | 1.063 ppbv   | 100    |
| 4) Chloromethane              | 2.812 | 50  | 86683  | 1.060 ppbv   | 100    |
| 5) Vinyl Chloride             | 2.915 | 62  | 78147  | 1.055 ppbv   | 100    |
| 6) Bromomethane               | 3.118 | 94  | 38811  | 0.995 ppbv   | 89     |
| 7) Chloroethane               | 3.195 | 64  | 27451  | 1.023 ppbv   | 94     |
| 8) Dichlorotetrafluoroethane  | 2.854 | 85  | 198669 | 1.039 ppbv   | 99     |
| 9) Propene                    | 2.690 | 41  | 72231  | 1.074 ppbv   | 95     |
| 10) Heptane                   | 7.574 | 43  | 148906 | 0.988 ppbv   | 96     |
| 11) Trichlorofluoromethane    | 3.562 | 101 | 194775 | 1.044 ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 4.063 | 101 | 141527 | 1.044 ppbv   | 98     |
| 13) Ethanol                   | 3.256 | 45  | 3961   | 0.947 ppbv # | 48     |
| 14) Bromoethene               | 3.359 | 108 | 55094  | 1.011 ppbv # | 92     |
| 15) Acetone                   | 3.475 | 43  | 166255 | 1.140 ppbv   | 99     |
| 16) 1,3-Butadiene             | 2.980 | 39  | 65479  | 0.896 ppbv # | 78     |
| 17) tert-Butyl alcohol        | 3.883 | 59  | 153265 | 1.198 ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 3.873 | 96  | 58180  | 0.979 ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.584 | 45  | 82398  | 1.168 ppbv # | 91     |
| 20) Methylene Chloride        | 3.928 | 84  | 59394  | 1.107 ppbv   | 96     |
| 21) Allyl Chloride            | 3.992 | 41  | 95568  | 1.061 ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 4.439 | 96  | 29921  | 0.504 ppbv   | 87     |
| 23) Vinyl Acetate             | 4.626 | 43  | 56204  | 0.820 ppbv # | 93     |
| 24) 1,1-Dichloroethane        | 4.555 | 63  | 132214 | 1.002 ppbv   | 99     |
| 25) Ethyl Acetate             | 5.205 | 43  | 316814 | 1.050 ppbv   | 98     |
| 26) Hexane                    | 5.208 | 57  | 122113 | 1.053 ppbv   | 94     |
| 27) Carbon Disulfide          | 4.121 | 76  | 125113 | 0.961 ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 4.587 | 73  | 79309  | 1.062 ppbv   | 98     |
| 29) Chloroform                | 5.269 | 83  | 197891 | 1.034 ppbv   | 100    |
| 30) Cyclohexane               | 6.597 | 84  | 88127  | 0.946 ppbv   | 89     |
| 31) cis-1,2-Dichloroethene    | 5.073 | 61  | 115115 | 1.032 ppbv   | 94     |
| 32) 1,1,1-Trichloroethane     | 5.996 | 97  | 186425 | 1.063 ppbv   | 100    |
| 34) 2-Butanone                | 4.790 | 43  | 166525 | 1.004 ppbv   | 99     |
| 35) Carbon Tetrachloride      | 6.491 | 117 | 187475 | 1.064 ppbv   | 96     |
| 36) Benzene                   | 6.369 | 78  | 250318 | 1.014 ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 5.803 | 62  | 144449 | 1.037 ppbv   | 100    |
| 38) Trichloroethene           | 7.288 | 130 | 96191  | 1.010 ppbv   | 93     |
| 39) 1,2-Dichloropropane       | 7.069 | 63  | 99780  | 1.023 ppbv   | 91     |
| 40) 1,4-Dioxane               | 7.298 | 88  | 8783   | 0.254 ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.571 | 42  | 93643  | 0.989 ppbv   | 99     |
| 42) Bromodichloromethane      | 7.246 | 83  | 188568 | 0.974 ppbv   | 100    |
| 43) Methyl Methacrylate       | 7.478 | 69  | 78902  | 0.910 ppbv   | 90     |
| 44) 2,2,4-Trimethylpentane    | 7.327 | 57  | 435343 | 1.041 ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 8.709 | 75  | 37335  | 0.482 ppbv   | 93     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041676.D  
 Acq On : 7 Nov 2024 11:34  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

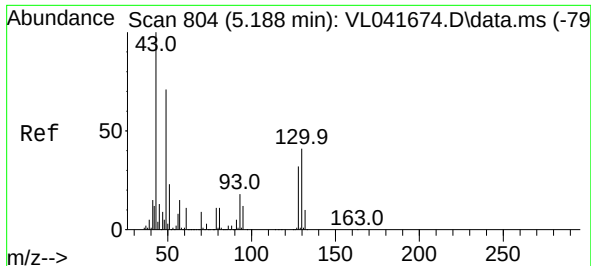
Quant Time: Nov 08 00:10:33 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.143  | 75   | 101425   | 0.901 | ppbv   | 95       |
| 47) 1,1,2-Trichloroethane     | 8.896  | 97   | 104883   | 0.997 | ppbv   | 92       |
| 48) Dibromochloromethane      | 9.709  | 129  | 152757   | 0.952 | ppbv   | 99       |
| 49) Bromoform                 | 12.400 | 173  | 61535    | 0.449 | ppbv # | 27       |
| 50) 4-Methyl-2-Pentanone      | 8.188  | 43   | 250885   | 0.985 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.571  | 43   | 165158   | 0.892 | ppbv # | 100      |
| 52) Tetrachloroethene         | 10.610 | 164  | 92977    | 1.102 | ppbv   | 93       |
| 53) Toluene                   | 9.217  | 91   | 253501   | 0.976 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.008 | 107  | 122096   | 0.994 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 11.510 | 131  | 133283   | 1.043 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.523 | 112  | 239417   | 1.047 | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.089 | 91   | 334939   | 0.986 | ppbv   | 91       |
| 59) m/p-Xylene                | 12.368 | 91   | 291390   | 0.959 | ppbv # | 23       |
| 60) o-Xylene                  | 13.053 | 91   | 293793   | 1.012 | ppbv   | 100      |
| 61) Styrene                   | 12.892 | 104  | 102947   | 0.859 | ppbv   | 96       |
| 62) Isopropylbenzene          | 14.031 | 105  | 468382   | 1.045 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.047 | 83   | 226867   | 1.074 | ppbv   | 97       |
| 64) n-propylbenzene           | 14.915 | 120  | 115677   | 0.987 | ppbv   | 82       |
| 65) tert-Butylbenzene         | 16.092 | 119  | 424019   | 1.053 | ppbv   | 98       |
| 66) Benzyl Chloride           | 16.326 | 91   | 17066    | 0.588 | ppbv # | 80       |
| 67) sec-Butylbenzene          | 16.638 | 105  | 596449   | 1.051 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 16.998 | 119  | 480893   | 1.048 | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.889 | 91   | 484367   | 1.030 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 14.799 | 91   | 331921   | 1.024 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.191 | 105  | 327541   | 0.972 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 15.352 | 105  | 290287   | 0.982 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene    | 16.111 | 105  | 360083   | 1.047 | ppbv # | 89       |
| 75) 1,3-Dichlorobenzene       | 16.326 | 146  | 218228   | 1.028 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.471 | 146  | 203100   | 0.973 | ppbv   | 95       |
| 77) 1,2-Dichlorobenzene       | 17.143 | 146  | 221404   | 1.050 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 22.632 | 225  | 100082   | 0.600 | ppbv # | 30       |
| 79) Naphthalene               | 21.384 | 128  | 72664    | 0.344 | ppbv   | 97       |
| 80) Naphthalene,2-methyl-     | 24.374 | 142  | 30468    | 0.777 | ppbv # | 83       |
| 81) 1,2,4-Trichlorobenzene    | 21.146 | 180  | 80566    | 0.613 | ppbv # | 42       |

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

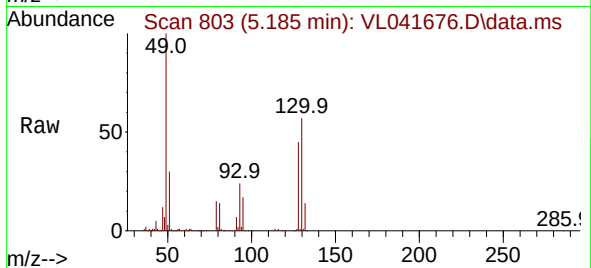




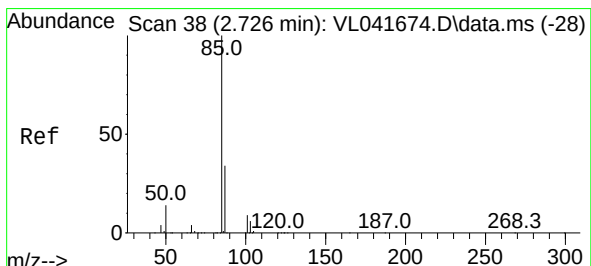
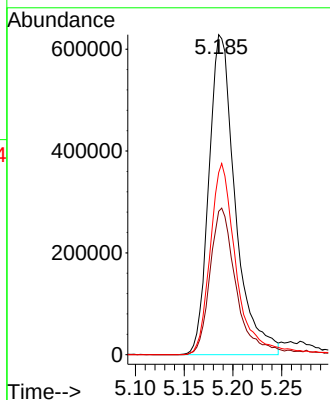
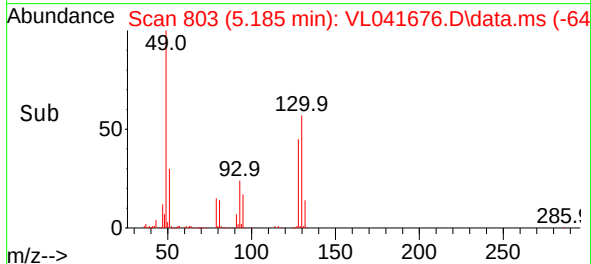


#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.185 min Scan# 80  
Delta R.T. -0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

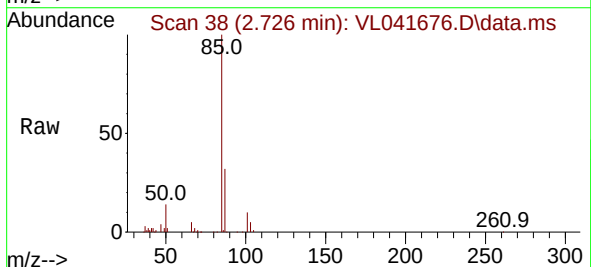
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



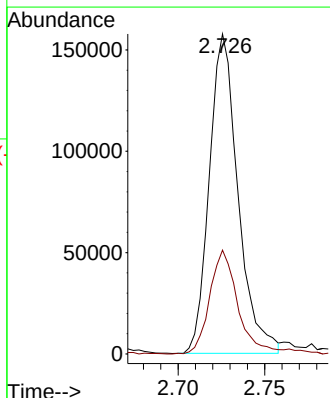
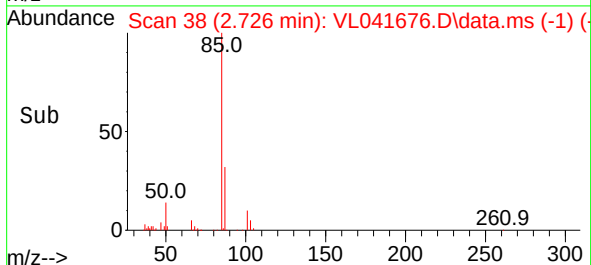
Tgt Ion: 49 Resp: 1184622  
Ion Ratio Lower Upper  
49 100  
128 47.2 23.8 71.2  
130 61.0 30.1 90.5

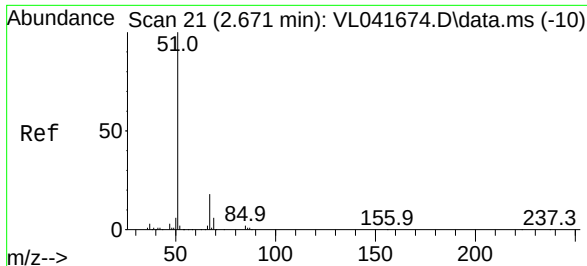


#2  
Dichlorodifluoromethane  
Concen: 0.848 ppbv  
RT: 2.726 min Scan# 38  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34



Tgt Ion: 85 Resp: 181618  
Ion Ratio Lower Upper  
85 100  
87 32.3 26.8 40.2

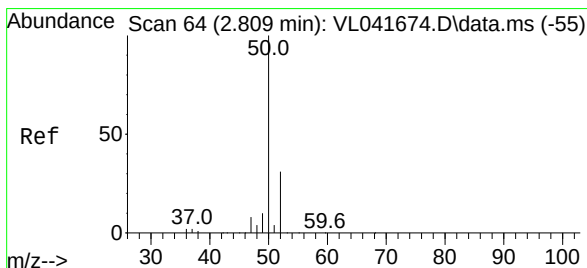
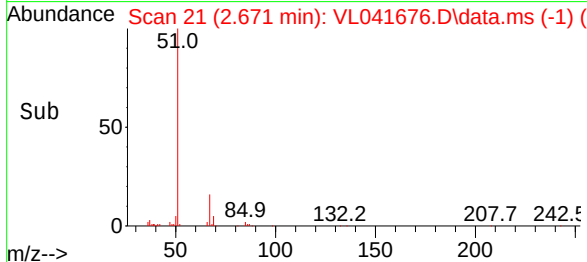
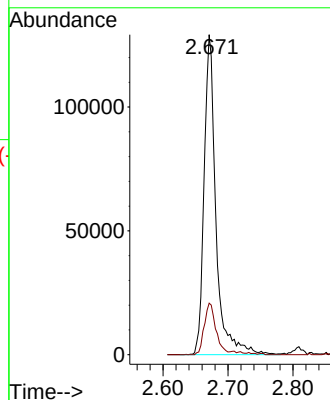
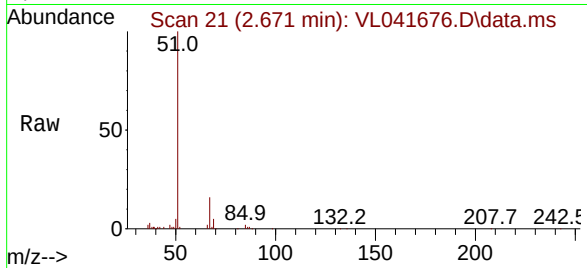




#3  
Chlorodifluoromethane  
Concen: 1.063 ppbv  
RT: 2.671 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

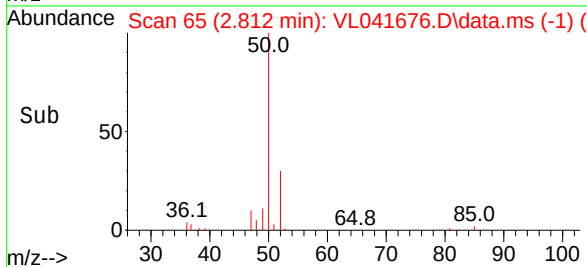
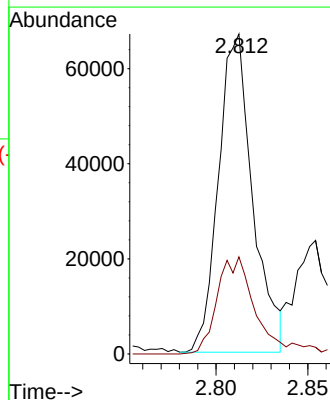
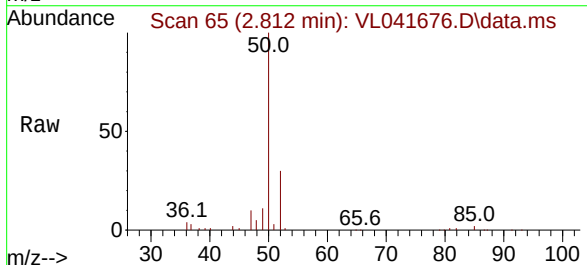
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

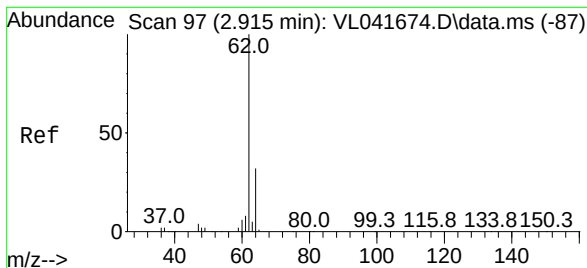
Tgt Ion: 51 Resp: 164131  
Ion Ratio Lower Upper  
51 100  
67 17.3 13.9 20.9



#4  
Chloromethane  
Concen: 1.060 ppbv  
RT: 2.812 min Scan# 65  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 50 Resp: 86683  
Ion Ratio Lower Upper  
50 100  
52 31.2 24.9 37.3

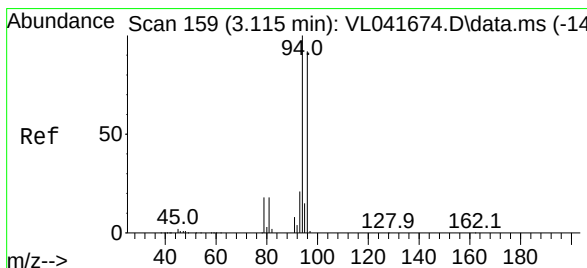
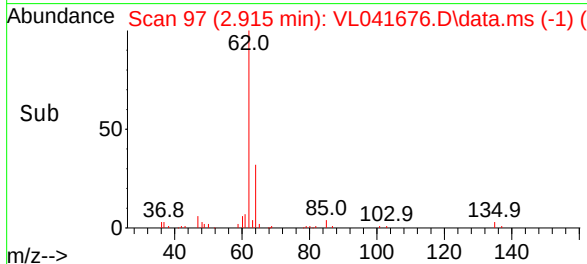
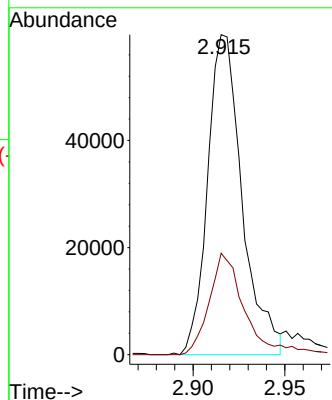
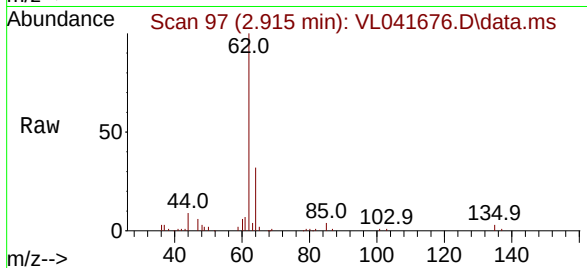




#5  
 Vinyl Chloride  
 Concen: 1.055 ppbv  
 RT: 2.915 min Scan# 91  
 Delta R.T. 0.000 min  
 Lab File: VL041676.D  
 Acq: 7 Nov 2024 11:34

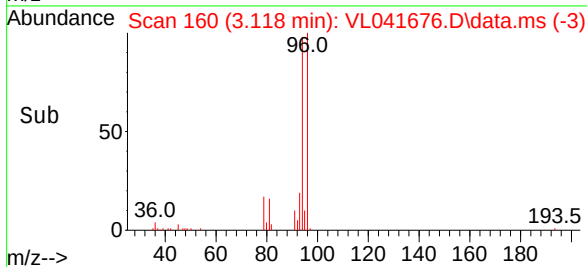
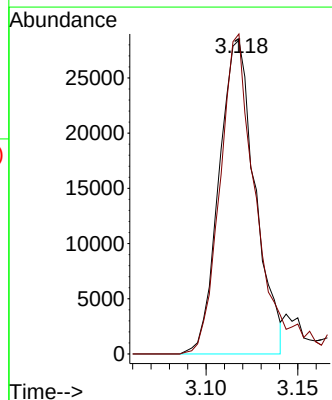
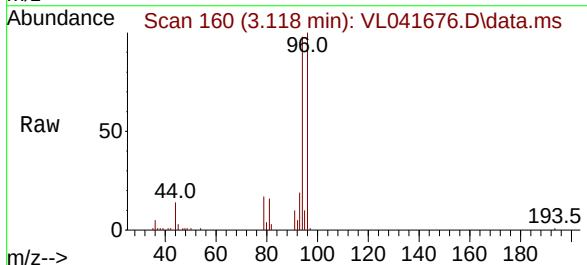
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

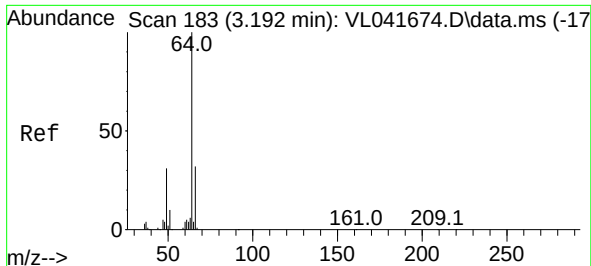
Tgt Ion: 62 Resp: 78147  
 Ion Ratio Lower Upper  
 62 100  
 64 31.7 25.4 38.2



#6  
 Bromomethane  
 Concen: 0.995 ppbv  
 RT: 3.118 min Scan# 160  
 Delta R.T. 0.003 min  
 Lab File: VL041676.D  
 Acq: 7 Nov 2024 11:34

Tgt Ion: 94 Resp: 38811  
 Ion Ratio Lower Upper  
 94 100  
 96 102.0 73.4 110.2

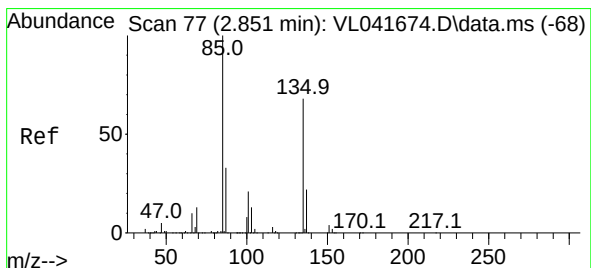
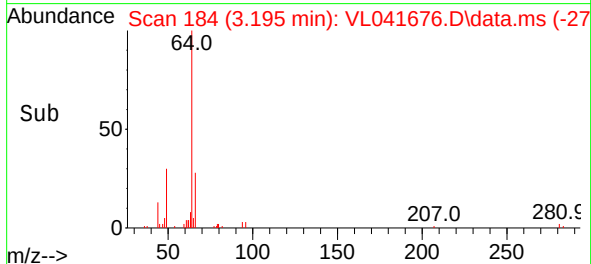
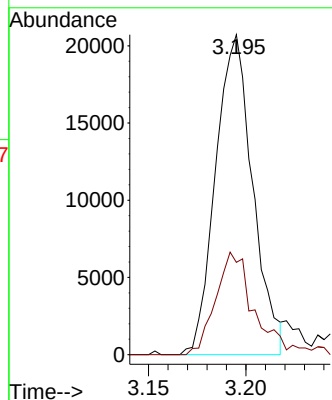
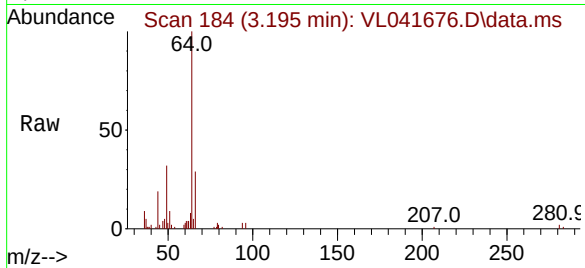




#7  
Chloroethane  
Concen: 1.023 ppbv  
RT: 3.195 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

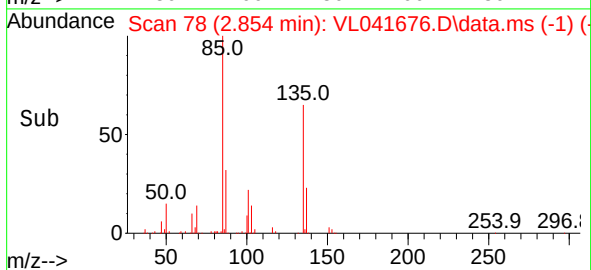
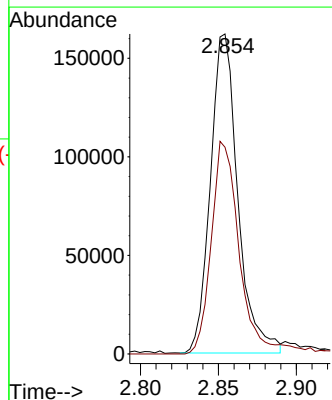
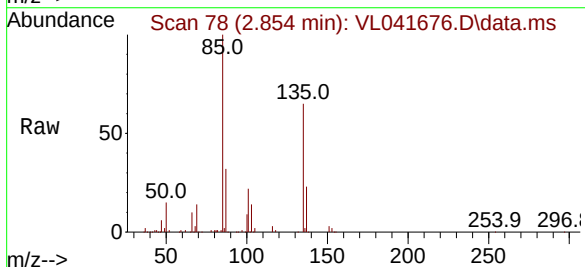
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

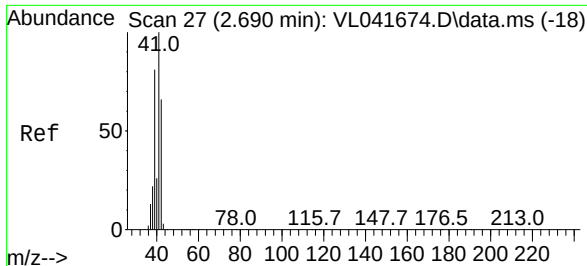
Tgt Ion: 64 Resp: 27451  
Ion Ratio Lower Upper  
64 100  
66 28.8 25.9 38.9



#8  
Dichlorotetrafluoroethane  
Concen: 1.039 ppbv  
RT: 2.854 min Scan# 78  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 85 Resp: 198669  
Ion Ratio Lower Upper  
85 100  
135 70.3 55.5 83.3

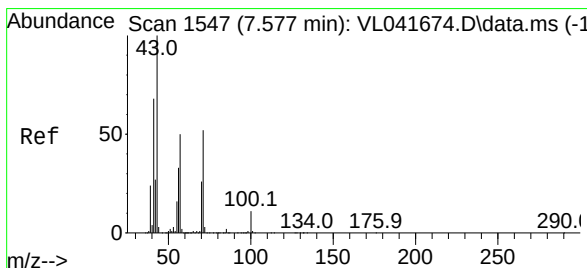
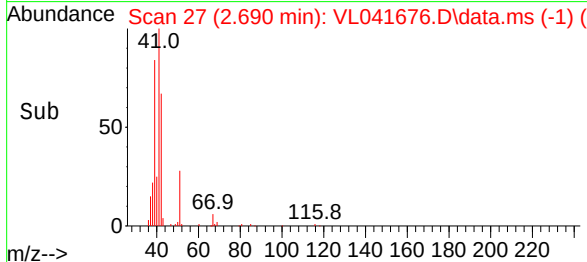
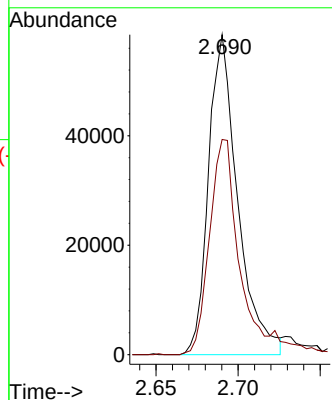
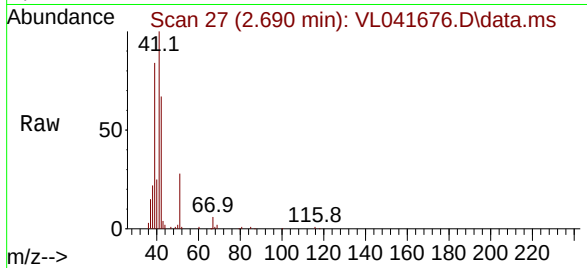




#9  
 Propene  
 Concen: 1.074 ppbv  
 RT: 2.690 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VL041676.D  
 Acq: 7 Nov 2024 11:34

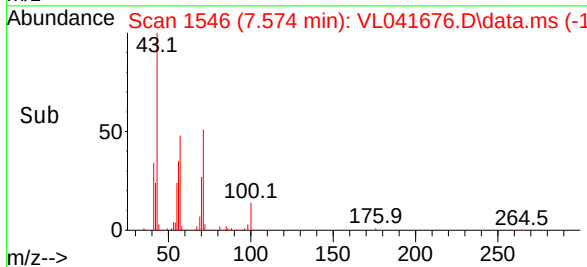
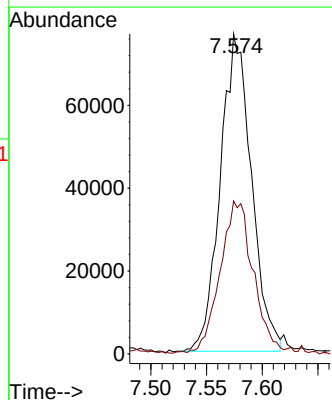
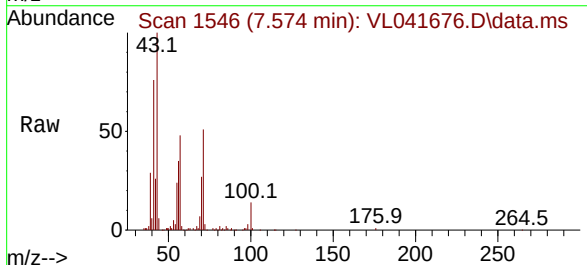
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

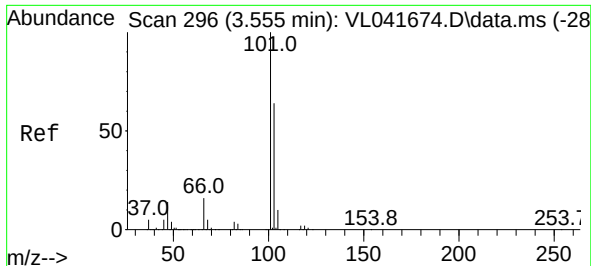
Tgt Ion: 41 Resp: 72231  
 Ion Ratio Lower Upper  
 41 100  
 42 72.6 55.0 82.4



#10  
 Heptane  
 Concen: 0.988 ppbv  
 RT: 7.574 min Scan# 1546  
 Delta R.T. -0.003 min  
 Lab File: VL041676.D  
 Acq: 7 Nov 2024 11:34

Tgt Ion: 43 Resp: 148906  
 Ion Ratio Lower Upper  
 43 100  
 57 52.6 40.0 60.0





#11

Trichlorofluoromethane

Concen: 1.044 ppbv

RT: 3.562 min Scan# 296

Delta R.T. 0.007 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

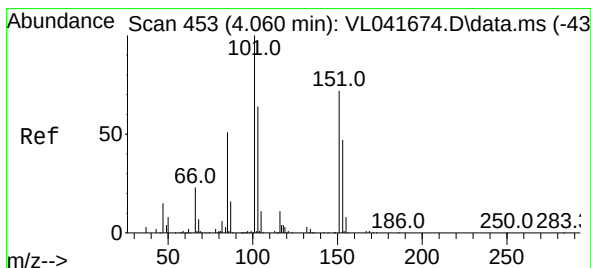
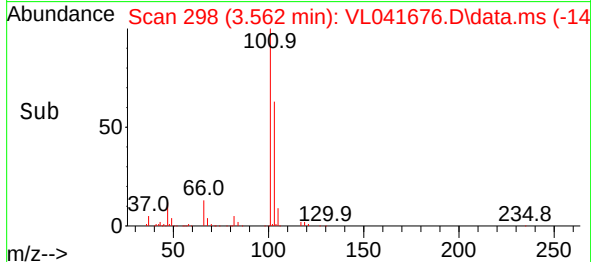
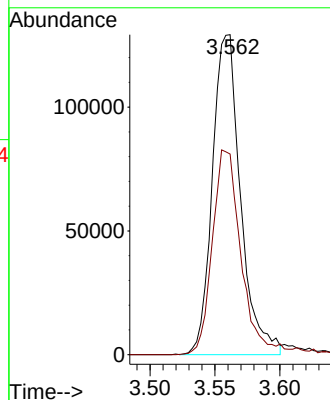
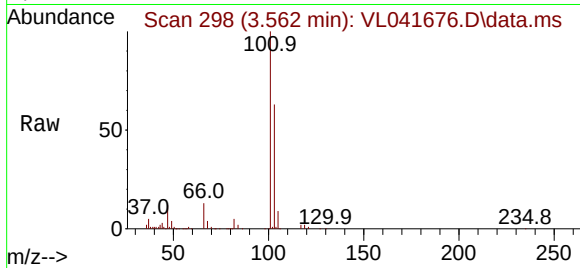
VSTDICC001

Tgt Ion:101 Resp: 194775

Ion Ratio Lower Upper

101 100

103 62.6 51.0 76.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.044 ppbv

RT: 4.063 min Scan# 454

Delta R.T. 0.003 min

Lab File: VL041676.D

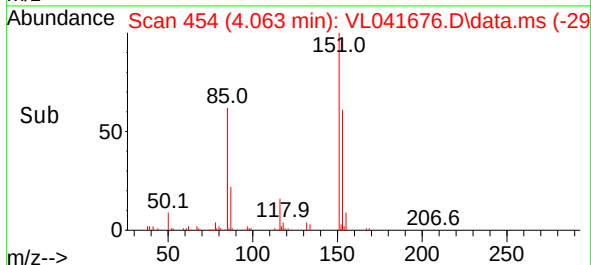
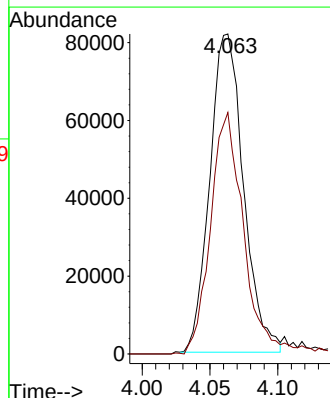
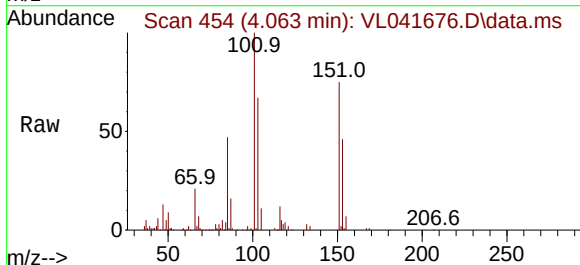
Acq: 7 Nov 2024 11:34

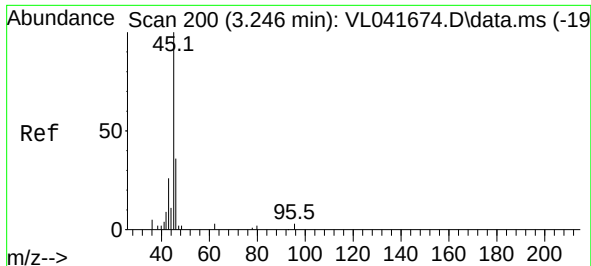
Tgt Ion:101 Resp: 141527

Ion Ratio Lower Upper

101 100

151 75.7 59.1 88.7





#13

Ethanol

Concen: 0.947 ppbv

RT: 3.256 min Scan# 20

Delta R.T. 0.010 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_1

ClientSampleId :

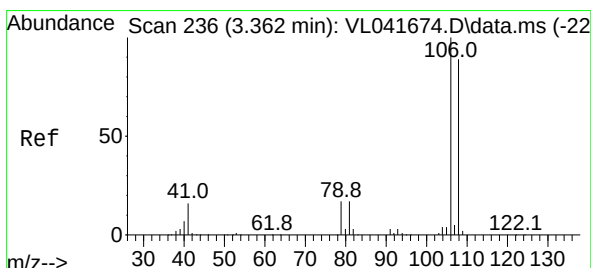
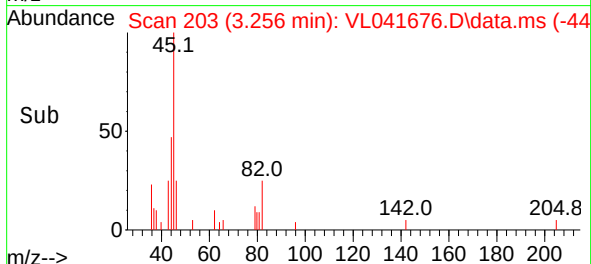
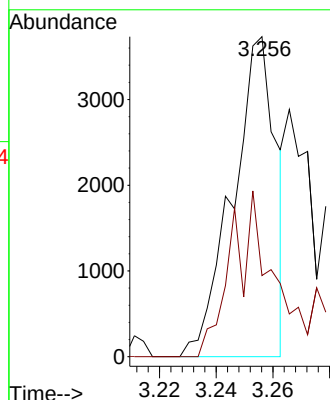
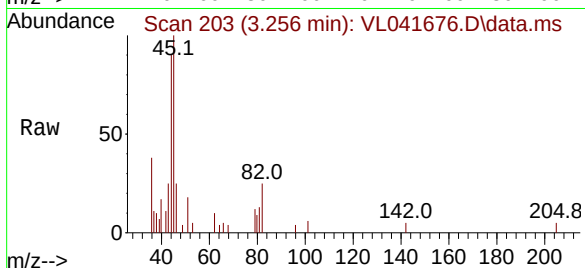
VSTDICC001

Tgt Ion: 45 Resp: 3961

Ion Ratio Lower Upper

45 100

46 64.4 13.8 55.2#



#14

Bromoethene

Concen: 1.011 ppbv

RT: 3.359 min Scan# 235

Delta R.T. -0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

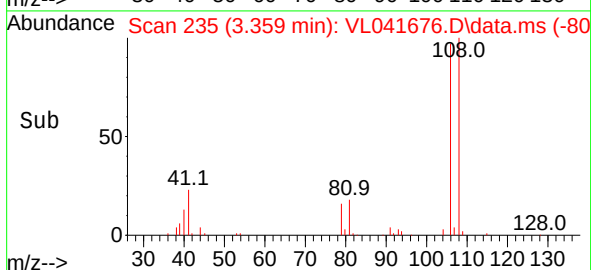
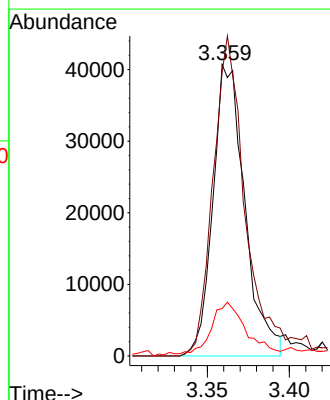
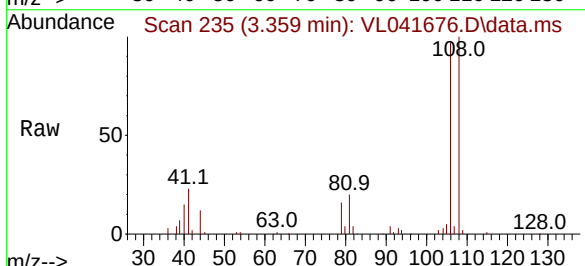
Tgt Ion:108 Resp: 55094

Ion Ratio Lower Upper

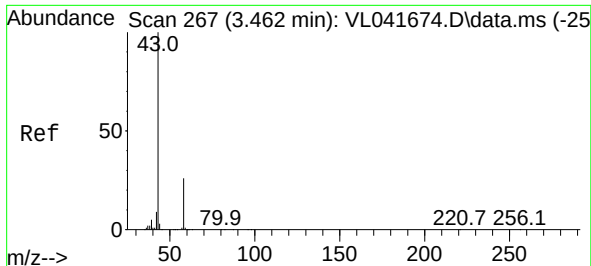
108 100

106 117.6 88.6 133.0

79 26.0 15.6 23.4#







#15

Acetone

Concen: 1.140 ppbv

RT: 3.475 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

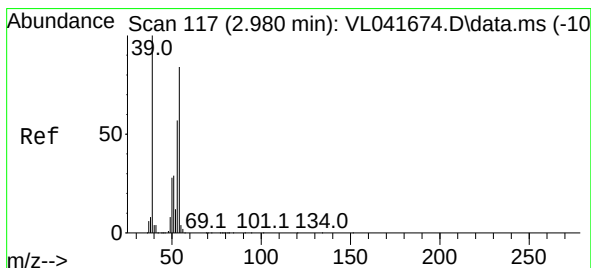
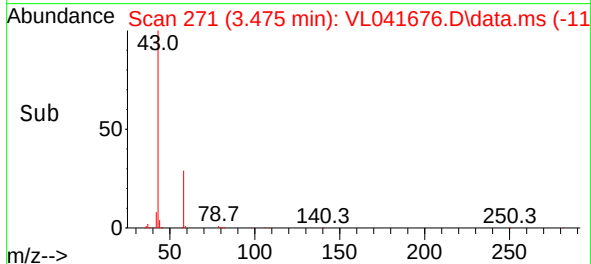
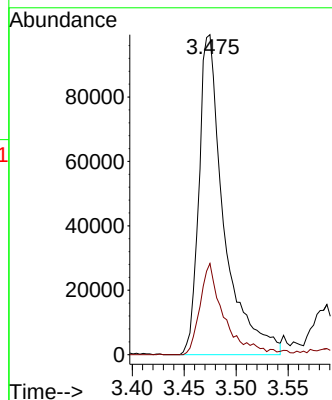
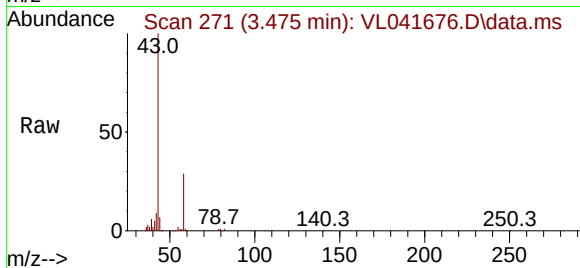
VSTDICC001

Tgt Ion: 43 Resp: 166255

Ion Ratio Lower Upper

43 100

58 27.3 21.4 32.0



#16

1,3-Butadiene

Concen: 0.896 ppbv

RT: 2.980 min Scan# 117

Delta R.T. 0.000 min

Lab File: VL041676.D

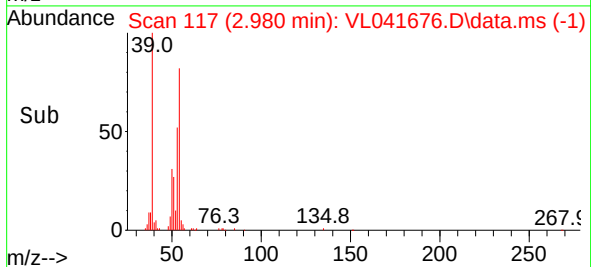
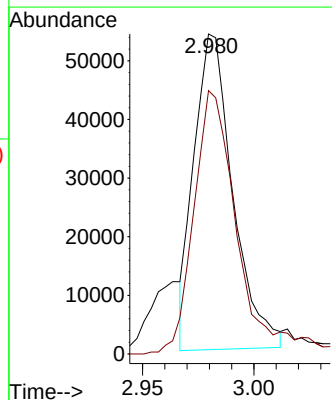
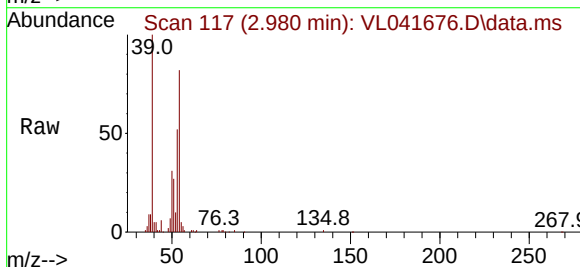
Acq: 7 Nov 2024 11:34

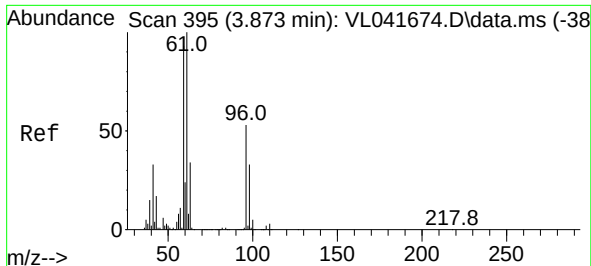
Tgt Ion: 39 Resp: 65479

Ion Ratio Lower Upper

39 100

54 95.5 61.3 91.9#





#17

tert-Butyl alcohol

Concen: 1.198 ppbv

RT: 3.883 min Scan# 398

Delta R.T. 0.010 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

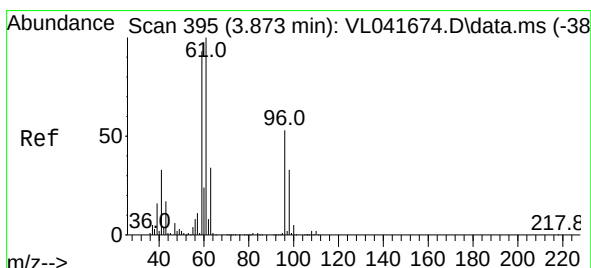
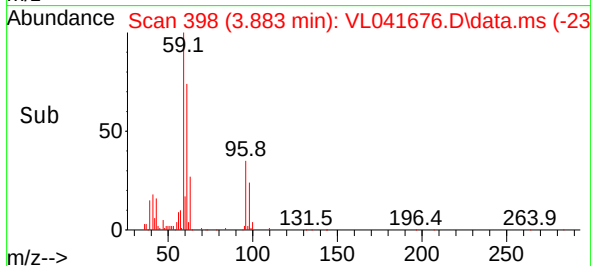
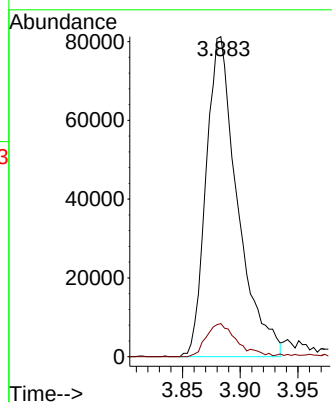
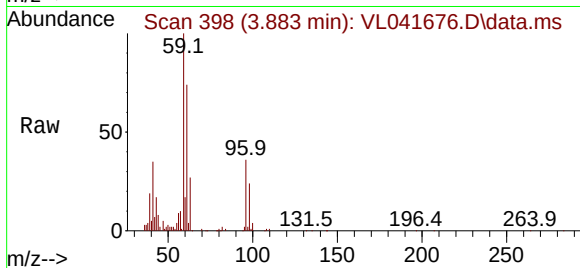
VSTDICC001

Tgt Ion: 59 Resp: 153265

Ion Ratio Lower Upper

59 100

57 10.2 8.5 12.7



#18

1,1-Dichloroethene

Concen: 0.979 ppbv

RT: 3.873 min Scan# 395

Delta R.T. 0.000 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

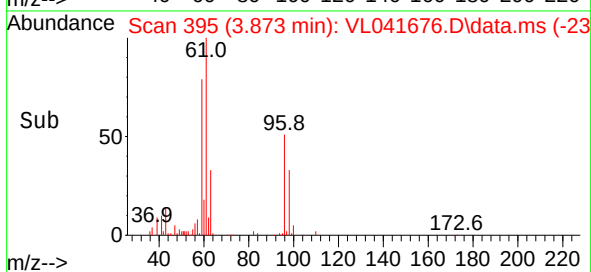
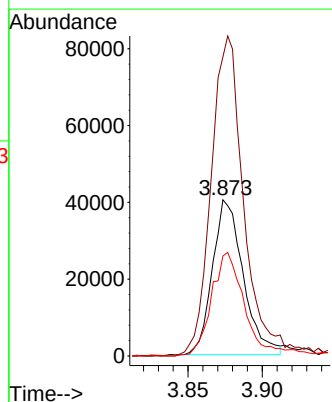
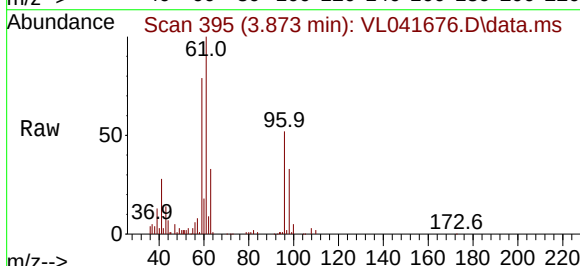
Tgt Ion: 96 Resp: 58180

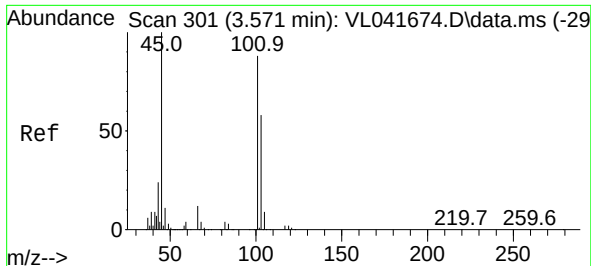
Ion Ratio Lower Upper

96 100

61 191.9 150.7 226.1

98 64.0 49.4 74.2

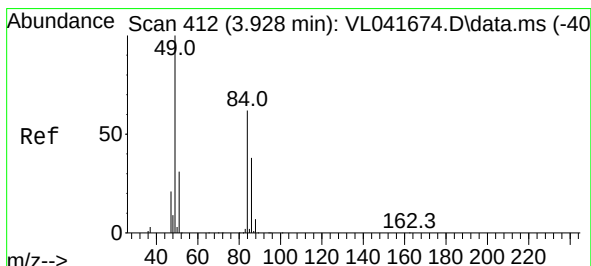
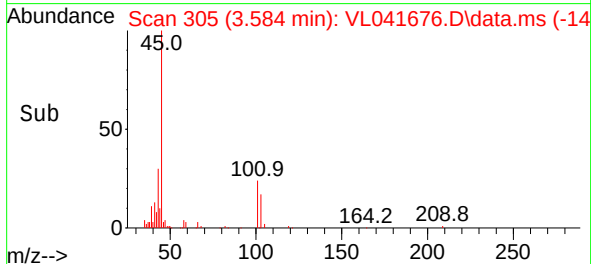
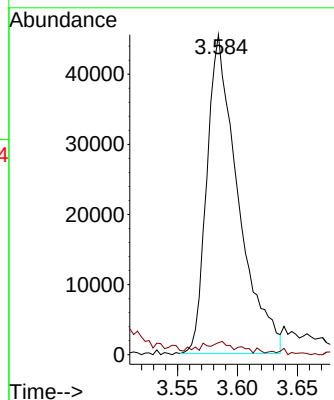
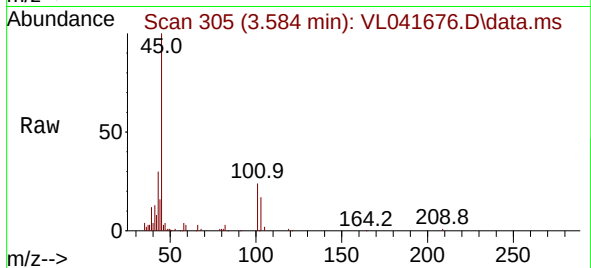




#19  
Isopropyl Alcohol  
Concen: 1.168 ppbv  
RT: 3.584 min Scan# 301  
Delta R.T. 0.013 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

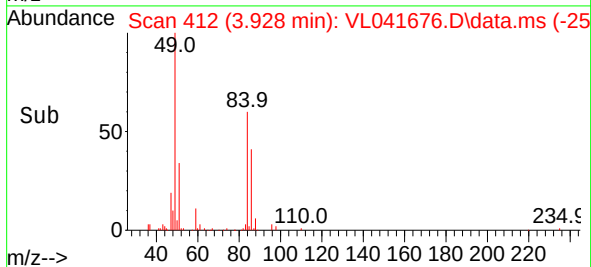
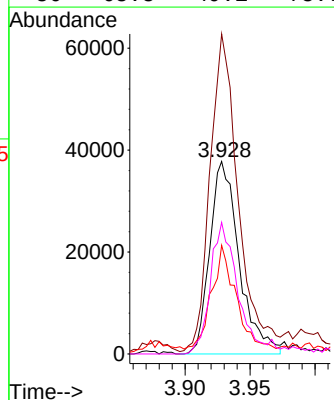
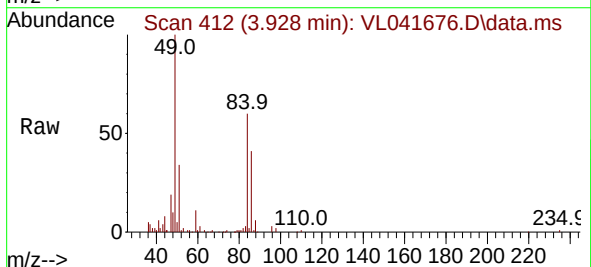
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

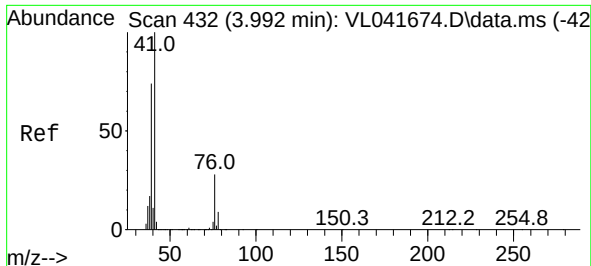
Tgt Ion: 45 Resp: 82398  
Ion Ratio Lower Upper  
45 100  
58 6.2 2.5 3.7#



#20  
Methylene Chloride  
Concen: 1.107 ppbv  
RT: 3.928 min Scan# 412  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 84 Resp: 59394  
Ion Ratio Lower Upper  
84 100  
49 165.0 129.7 194.5  
51 52.7 39.8 59.6  
86 68.3 49.1 73.7





#21

Allyl Chloride

Concen: 1.061 ppbv

RT: 3.992 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

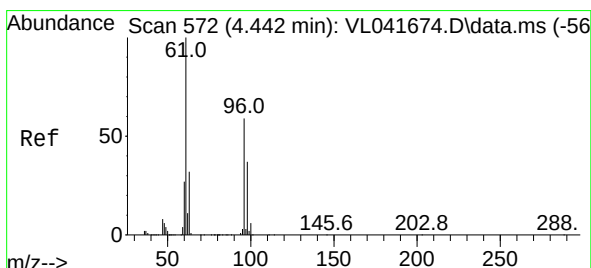
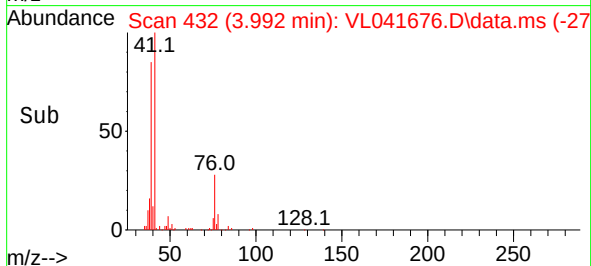
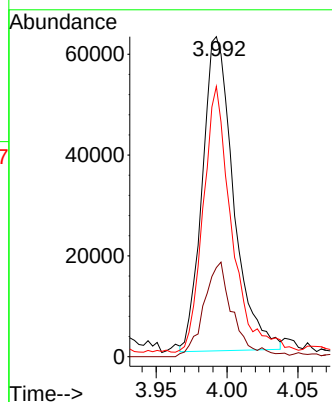
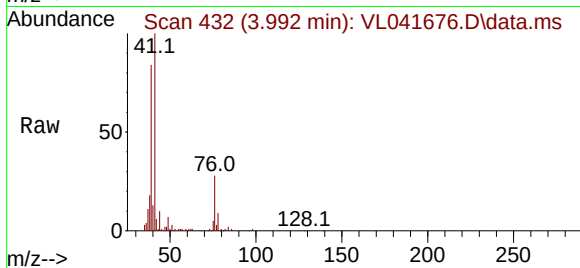
Tgt Ion: 41 Resp: 95568

Ion Ratio Lower Upper

41 100

76 28.9 23.5 35.3

39 76.9 63.0 94.4



#22

trans-1,2-Dichloroethene

Concen: 0.504 ppbv

RT: 4.439 min Scan# 571

Delta R.T. -0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

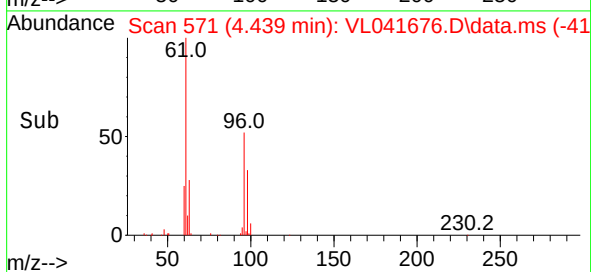
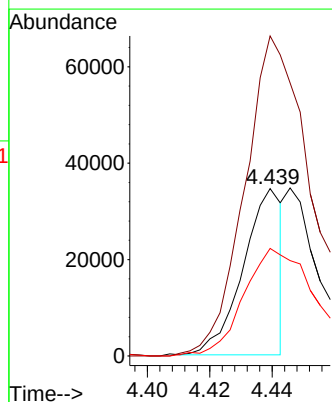
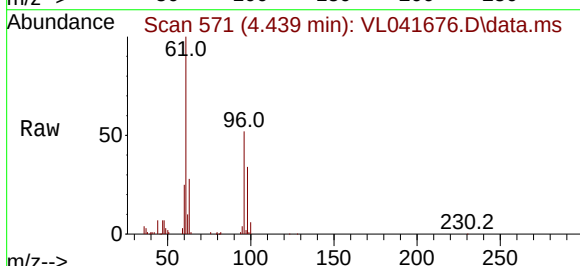
Tgt Ion: 96 Resp: 29921

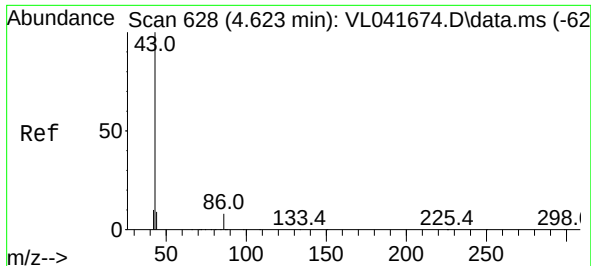
Ion Ratio Lower Upper

96 100

61 190.9 134.5 201.7

98 63.9 49.6 74.4





#23

Vinyl Acetate

Concen: 0.820 ppbv

RT: 4.626 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 56204

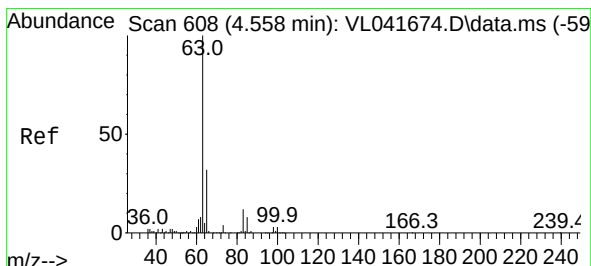
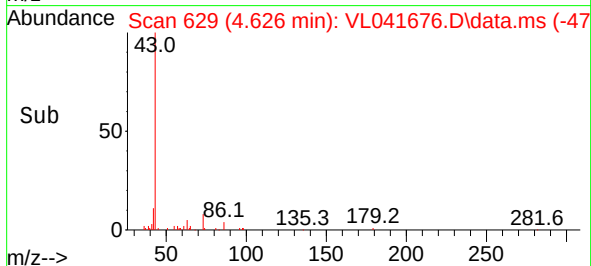
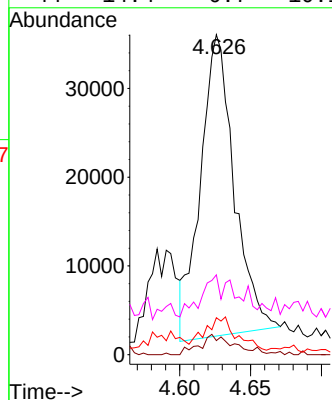
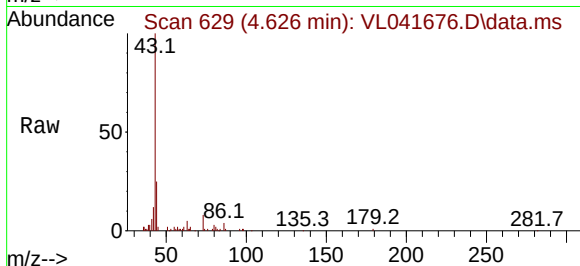
Ion Ratio Lower Upper

43 100

86 4.8 5.3 7.9#

42 10.7 8.5 12.7

44 14.4 6.7 10.1#



#24

1,1-Dichloroethane

Concen: 1.002 ppbv

RT: 4.555 min Scan# 607

Delta R.T. -0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

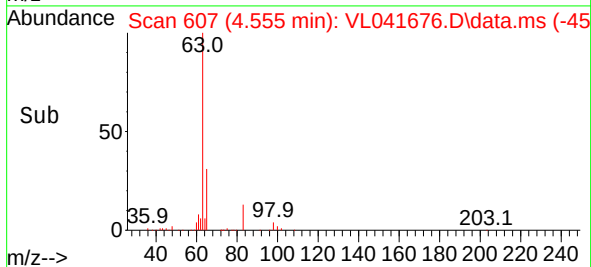
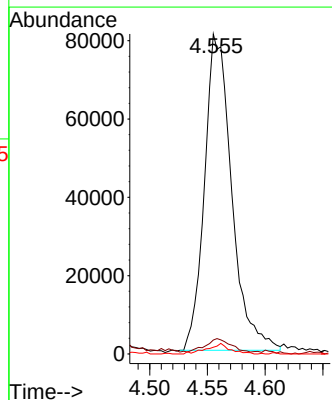
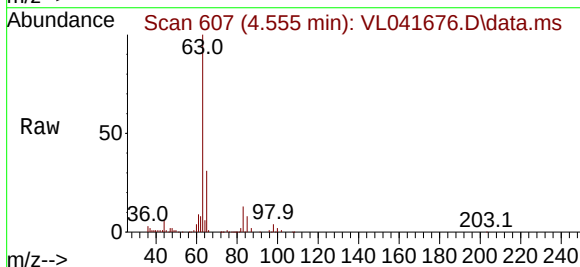
Tgt Ion: 63 Resp: 132214

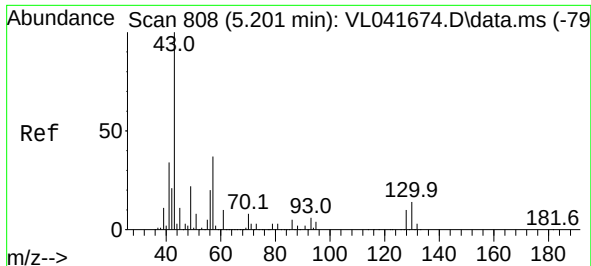
Ion Ratio Lower Upper

63 100

98 3.8 1.8 5.4

100 2.1 1.4 4.2



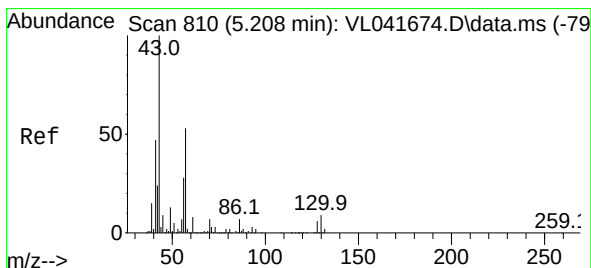
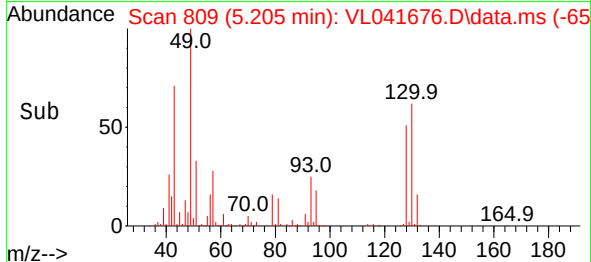
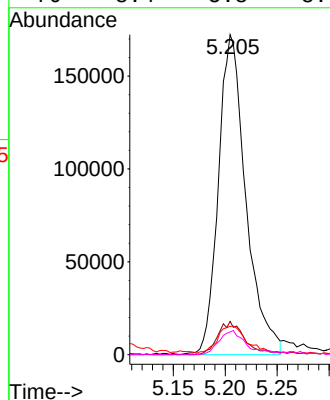
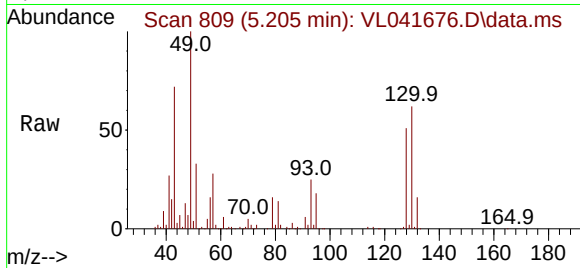


#25  
Ethyl Acetate  
Concen: 1.050 ppbv  
RT: 5.205 min Scan# 809  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 43 Resp: 316814

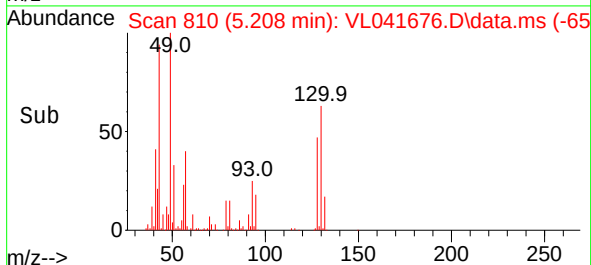
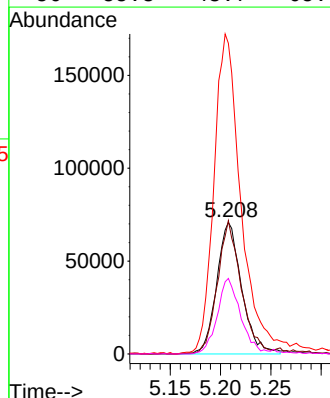
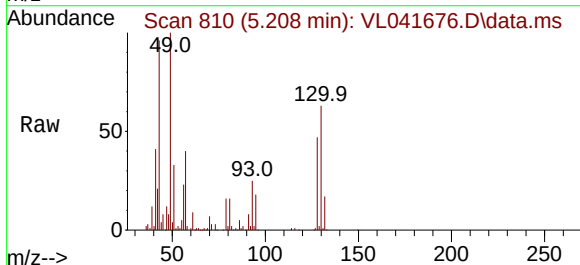
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 11.0  | 8.6   | 13.0  |
| 61  | 9.5   | 8.4   | 12.6  |
| 70  | 8.4   | 5.8   | 8.6   |

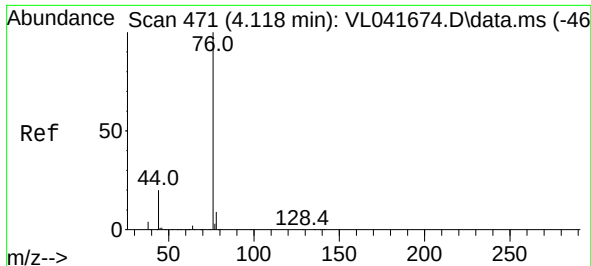


#26  
Hexane  
Concen: 1.053 ppbv  
RT: 5.208 min Scan# 810  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 57 Resp: 122113

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 100.9 | 76.1  | 114.1 |
| 43  | 271.9 | 207.0 | 310.6 |
| 56  | 55.8  | 43.7  | 65.5  |

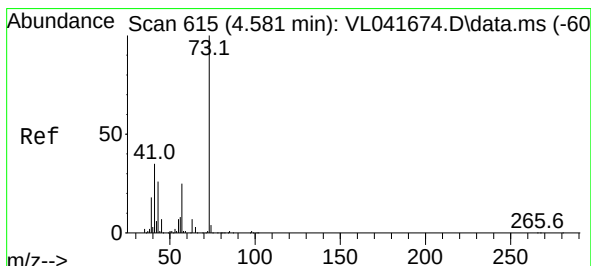
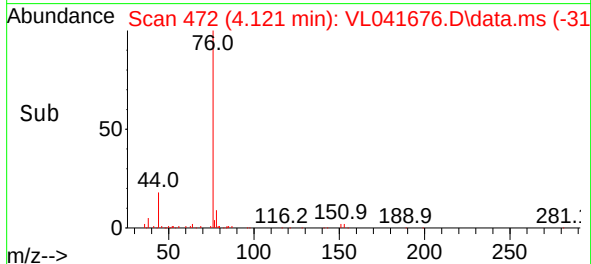
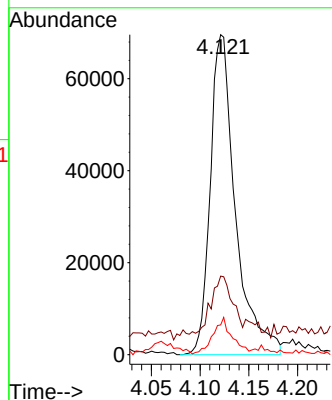
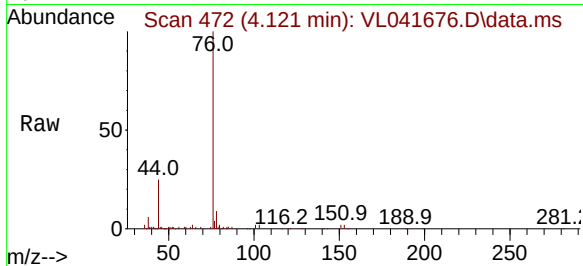




#27  
Carbon Disulfide  
Concen: 0.961 ppbv  
RT: 4.121 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

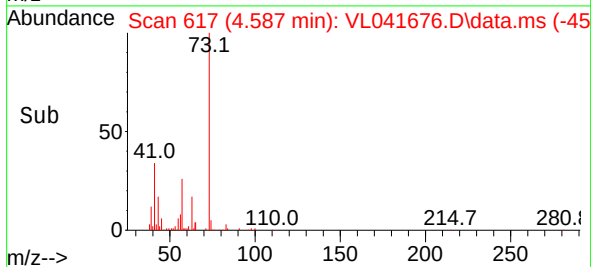
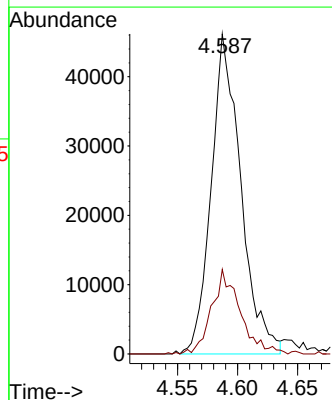
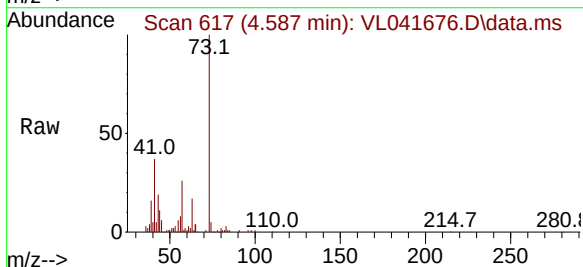
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

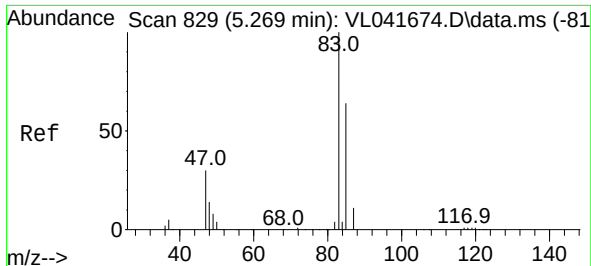
Tgt Ion: 76 Resp: 125113  
Ion Ratio Lower Upper  
76 100  
44 21.0 15.8 23.8  
78 10.6 7.5 11.3



#28  
Methyl tert-Butyl Ether  
Concen: 1.062 ppbv  
RT: 4.587 min Scan# 617  
Delta R.T. 0.007 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 73 Resp: 79309  
Ion Ratio Lower Upper  
73 100  
57 25.7 19.6 29.4

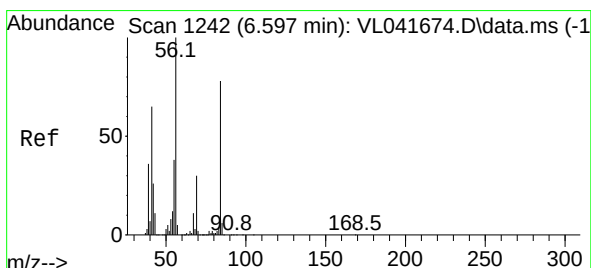
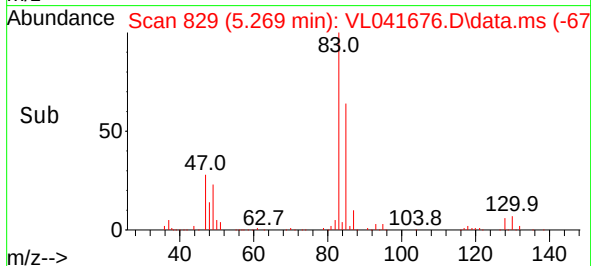
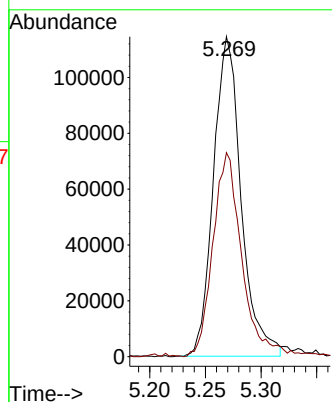
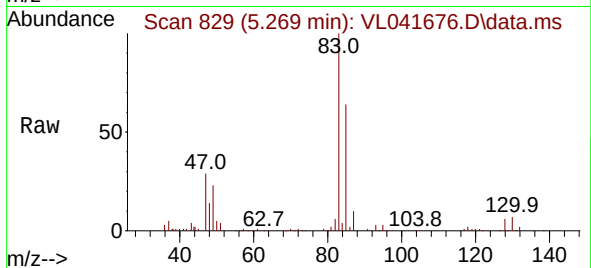




#29  
Chloroform  
Concen: 1.034 ppbv  
RT: 5.269 min Scan# 829  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

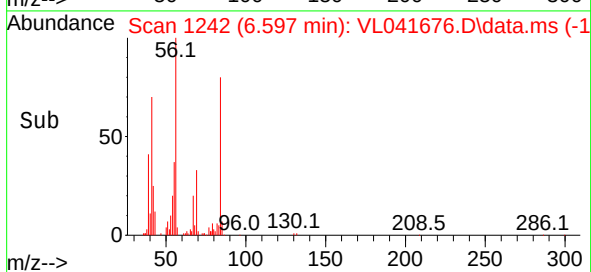
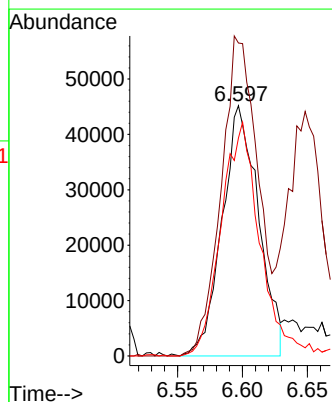
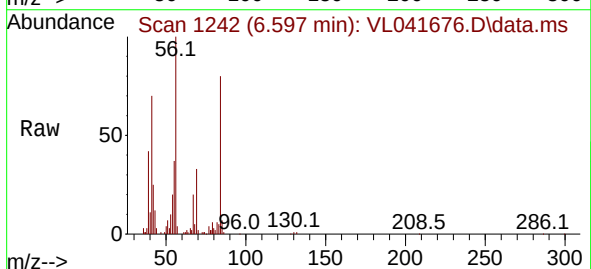
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

Tgt Ion: 83 Resp: 197891  
Ion Ratio Lower Upper  
83 100  
85 63.6 51.1 76.7

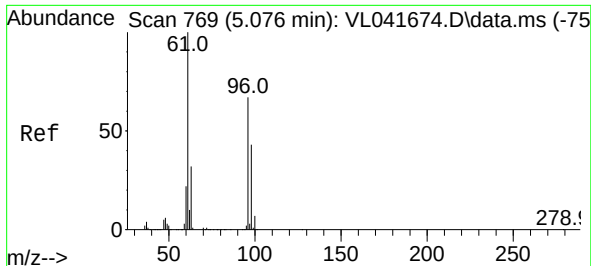


#30  
Cyclohexane  
Concen: 0.946 ppbv  
RT: 6.597 min Scan# 1242  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 84 Resp: 88127  
Ion Ratio Lower Upper  
84 100  
56 127.9 110.8 166.2  
41 100.1 70.0 105.0







#31

cis-1,2-Dichloroethene

Concen: 1.032 ppbv

RT: 5.073 min Scan# 7

Delta R.T. -0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

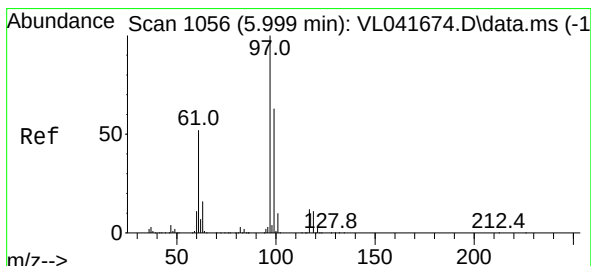
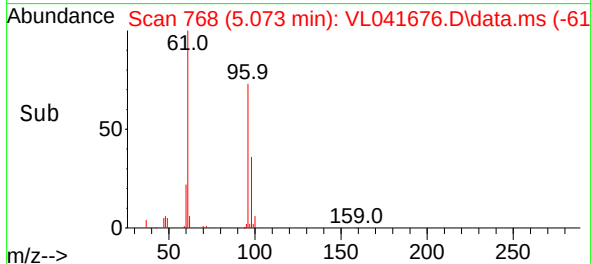
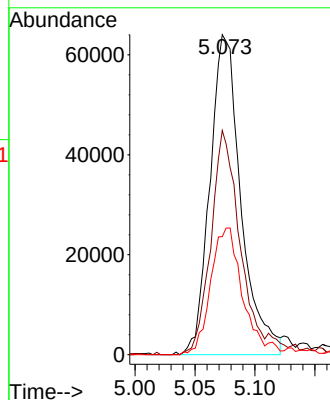
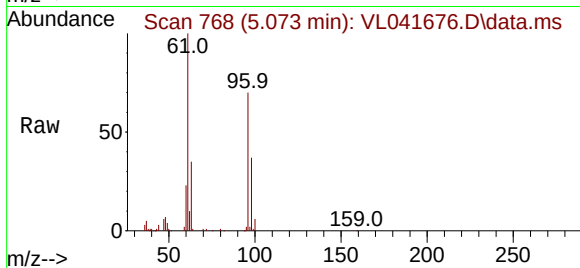
Tgt Ion: 61 Resp: 115115

Ion Ratio Lower Upper

61 100

96 70.0 53.4 80.2

98 36.9 34.0 51.0



#32

1,1,1-Trichloroethane

Concen: 1.063 ppbv

RT: 5.996 min Scan# 1055

Delta R.T. -0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

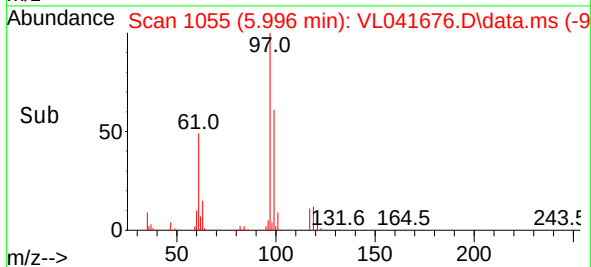
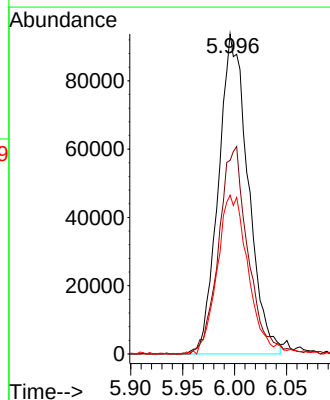
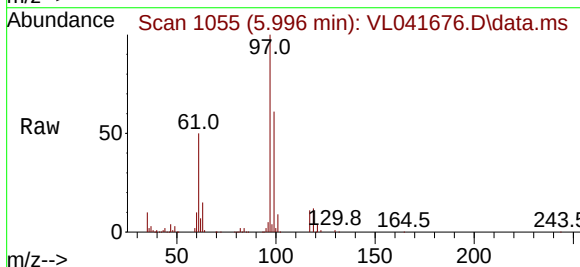
Tgt Ion: 97 Resp: 186425

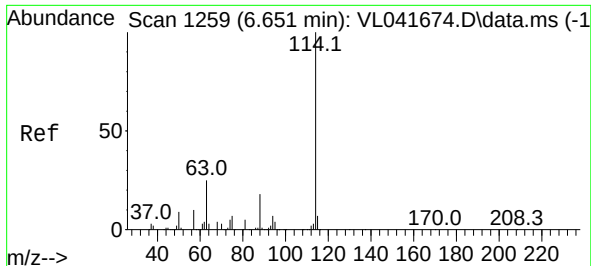
Ion Ratio Lower Upper

97 100

99 64.5 51.4 77.2

61 52.4 41.7 62.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC001

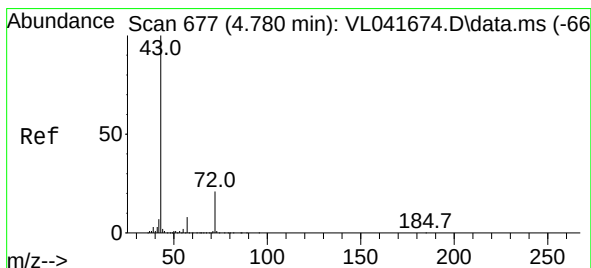
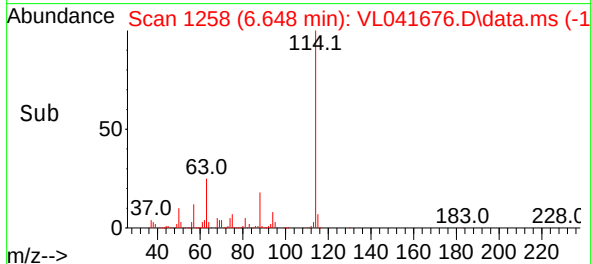
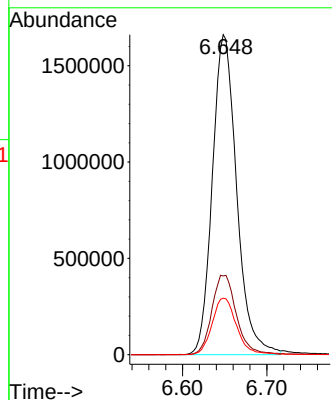
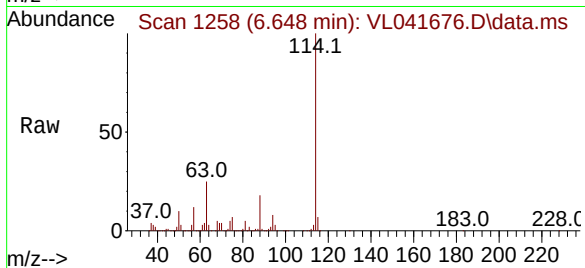
Tgt Ion:114 Resp: 3332226

Ion Ratio Lower Upper

114 100

63 25.4 20.3 30.5

88 17.9 14.2 21.4



#34

2-Butanone

Concen: 1.004 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.010 min

Lab File: VL041676.D

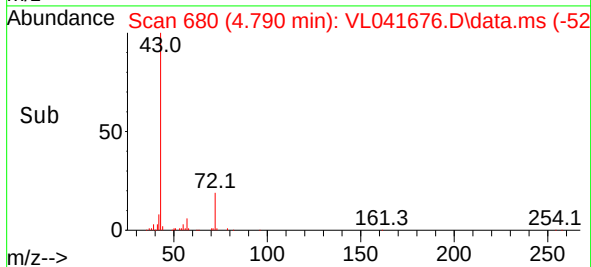
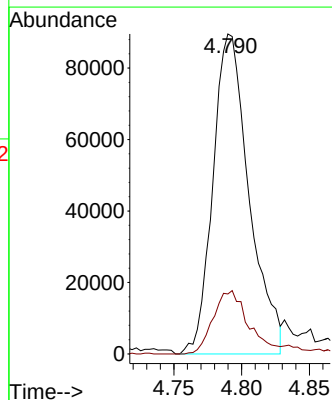
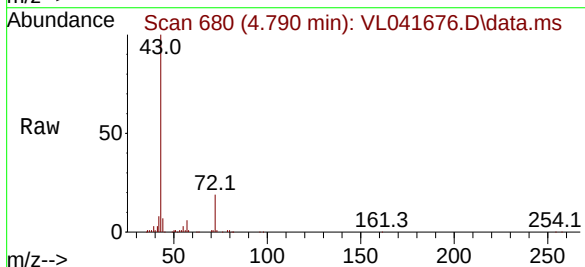
Acq: 7 Nov 2024 11:34

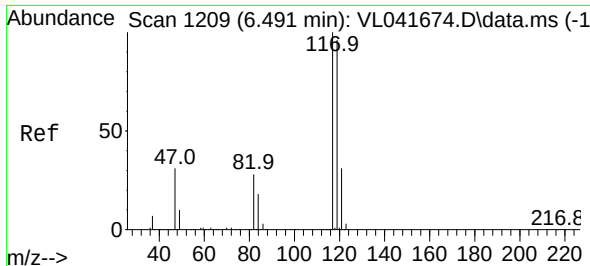
Tgt Ion: 43 Resp: 166525

Ion Ratio Lower Upper

43 100

72 22.0 17.4 26.0





#35

Carbon Tetrachloride

Concen: 1.064 ppbv

RT: 6.491 min Scan# 1170

Delta R.T. 0.000 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC001

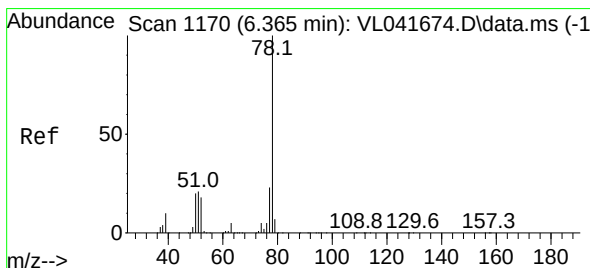
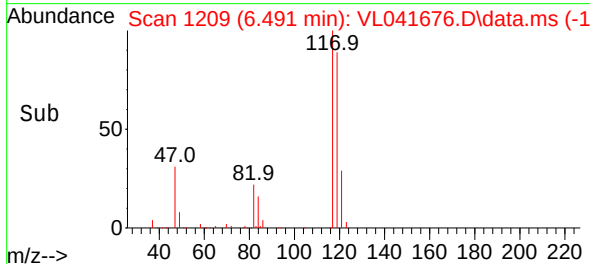
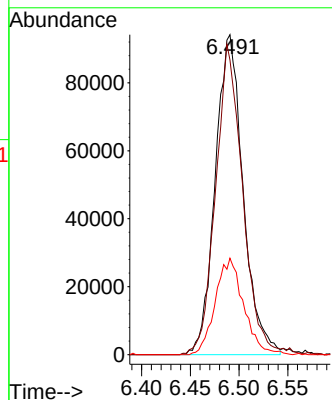
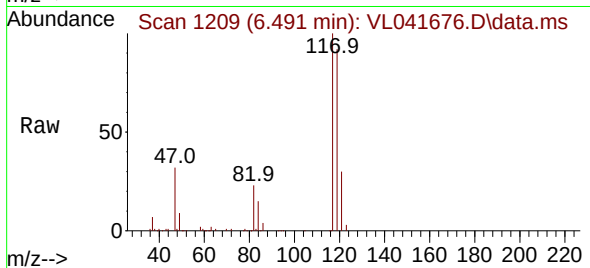
Tgt Ion:117 Resp: 187475

Ion Ratio Lower Upper

117 100

119 92.1 77.2 115.8

121 30.1 25.0 37.4



#36

Benzene

Concen: 1.014 ppbv

RT: 6.369 min Scan# 1171

Delta R.T. 0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

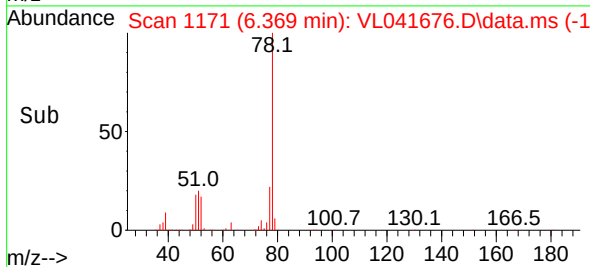
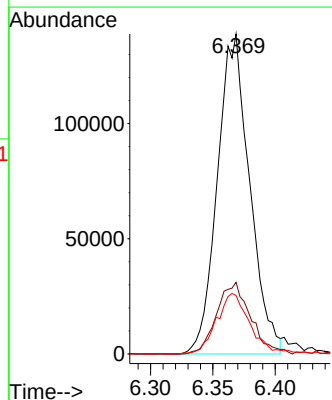
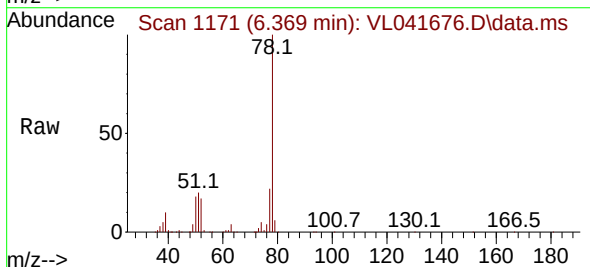
Tgt Ion: 78 Resp: 250318

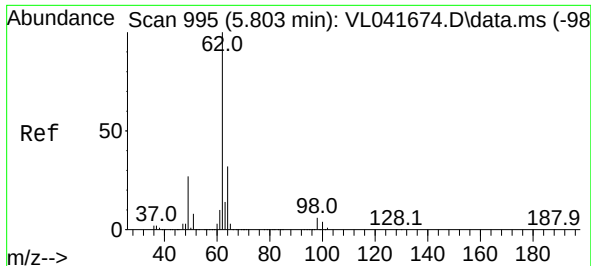
Ion Ratio Lower Upper

78 100

77 22.4 18.5 27.7

50 18.3 15.6 23.4

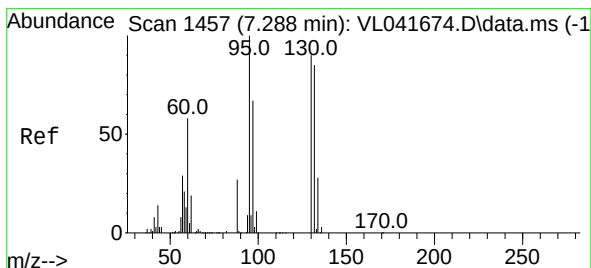
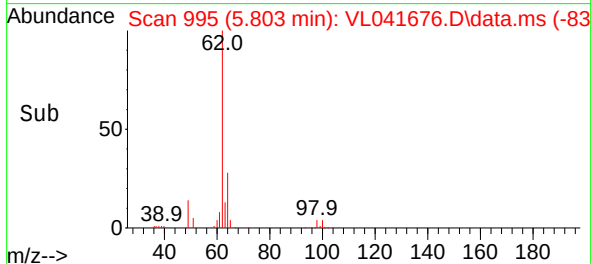
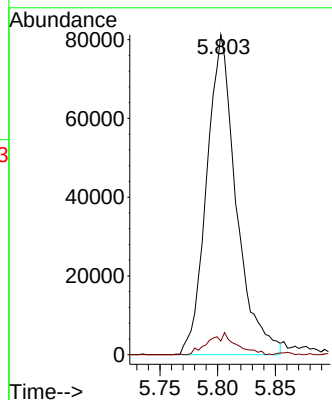
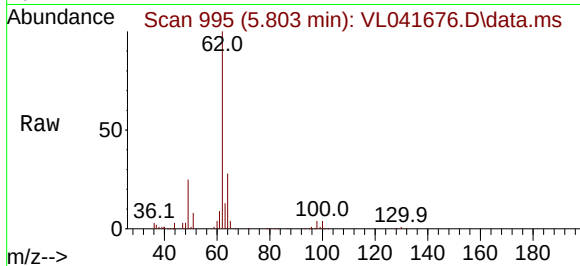




#37  
1,2-Dichloroethane  
Concen: 1.037 ppbv  
RT: 5.803 min Scan# 995  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

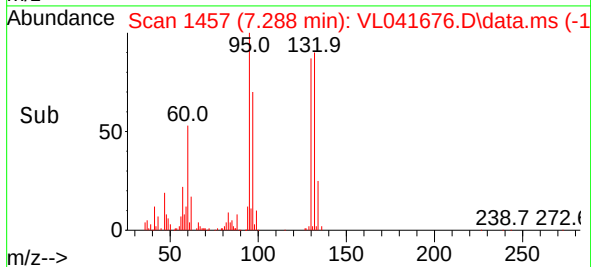
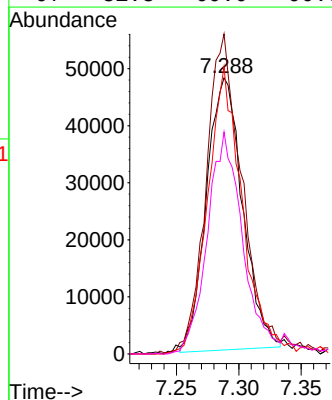
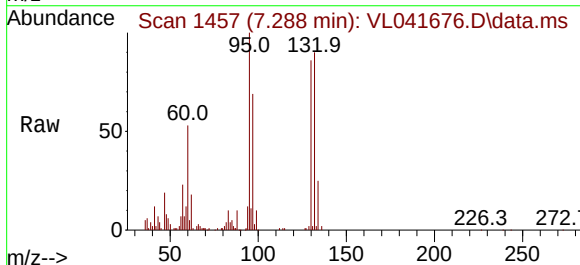
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

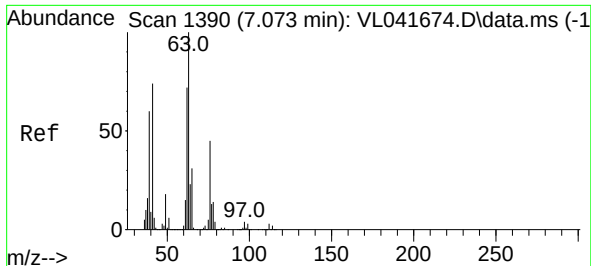
Tgt Ion: 62 Resp: 144449  
Ion Ratio Lower Upper  
62 100  
98 6.5 5.2 7.8



#38  
Trichloroethene  
Concen: 1.010 ppbv  
RT: 7.288 min Scan# 1457  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion:130 Resp: 96191  
Ion Ratio Lower Upper  
130 100  
95 114.6 89.1 133.7  
132 104.7 75.7 113.5  
97 81.3 60.0 90.0





#39

1,2-Dichloropropane

Concen: 1.023 ppbv

RT: 7.069 min Scan# 1459

Delta R.T. -0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

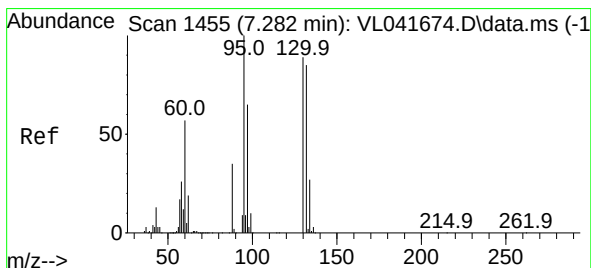
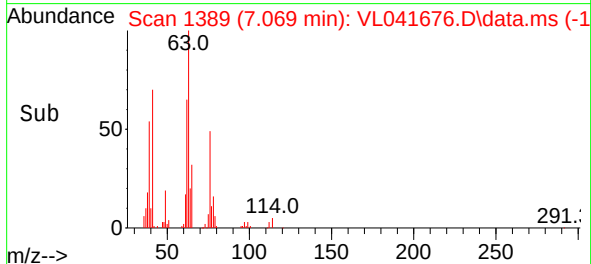
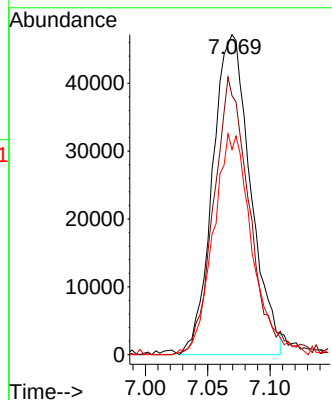
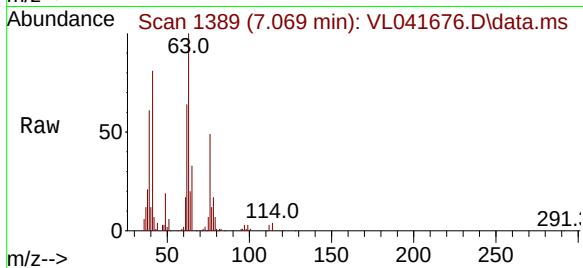
Tgt Ion: 63 Resp: 99780

Ion Ratio Lower Upper

63 100

41 79.7 59.1 88.7

62 62.6 57.7 86.5



#40

1,4-Dioxane

Concen: 0.254 ppbv

RT: 7.298 min Scan# 1460

Delta R.T. 0.016 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Tgt Ion: 88 Resp: 8783

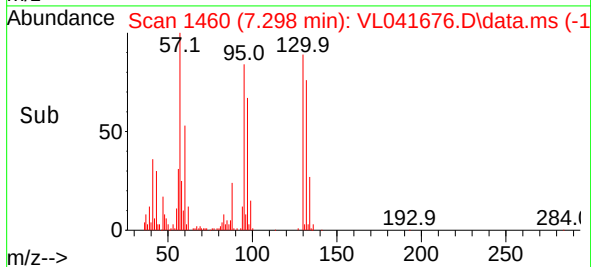
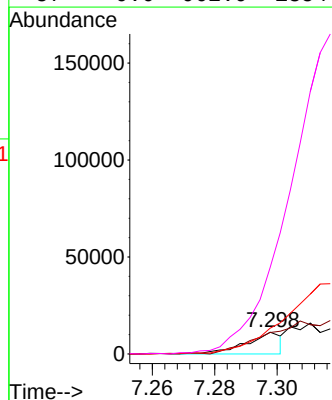
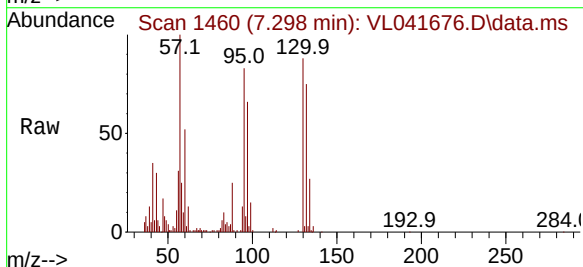
Ion Ratio Lower Upper

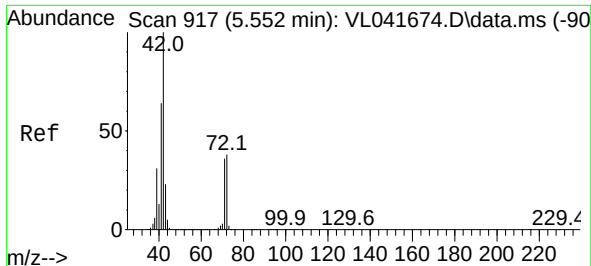
88 100

58 0.0 101.4 152.2#

43 0.0 208.0 312.0#

57 0.0 902.9 1354.3#





#41

Tetrahydrofuran

Concen: 0.989 ppbv

RT: 5.571 min Scan# 917

Delta R.T. 0.019 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

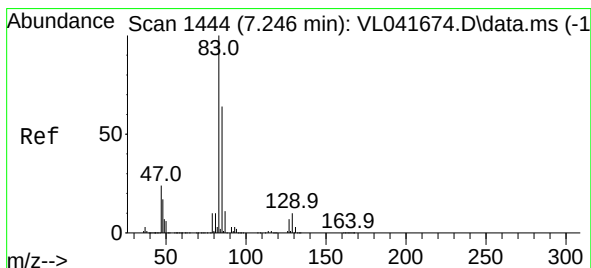
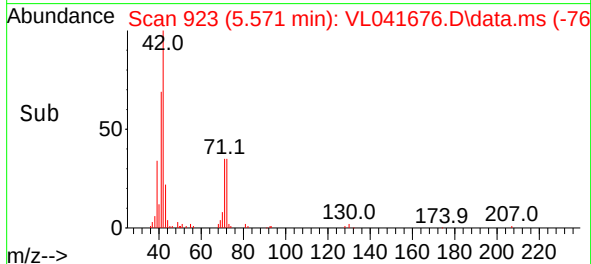
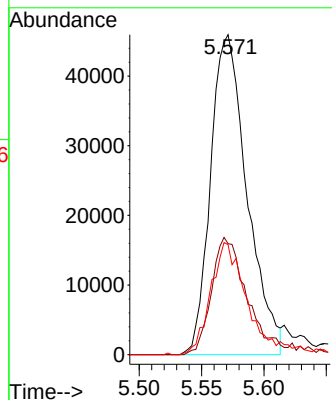
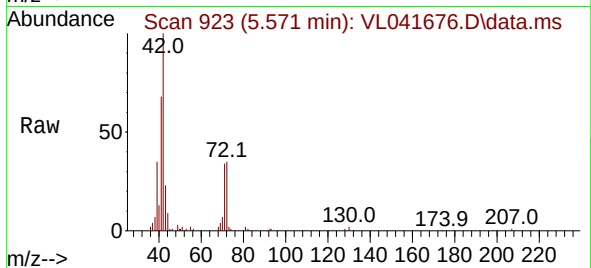
Tgt Ion: 42 Resp: 93643

Ion Ratio Lower Upper

42 100

72 37.6 29.8 44.6

71 36.5 29.4 44.2



#42

Bromodichloromethane

Concen: 0.974 ppbv

RT: 7.246 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

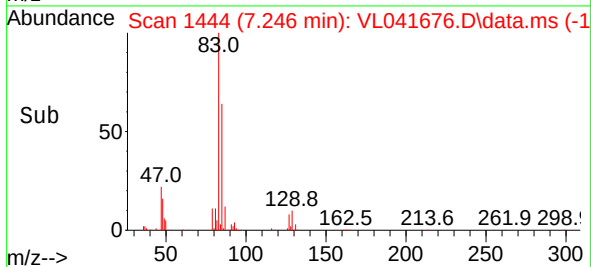
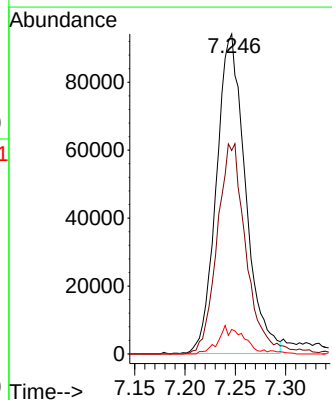
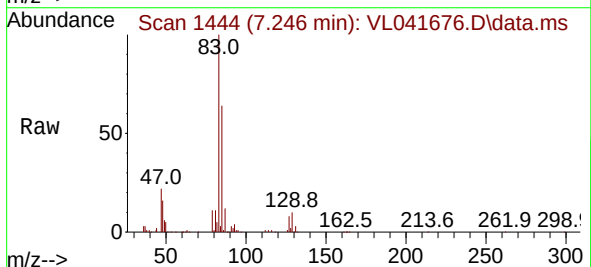
Tgt Ion: 83 Resp: 188568

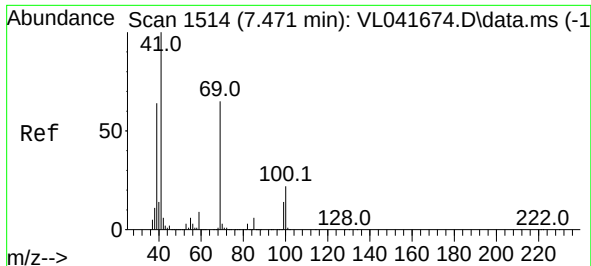
Ion Ratio Lower Upper

83 100

85 63.7 51.2 76.8

127 7.7 6.0 9.0





#43

Methyl Methacrylate

Concen: 0.910 ppbv

RT: 7.478 min Scan# 1514

Delta R.T. 0.006 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC001

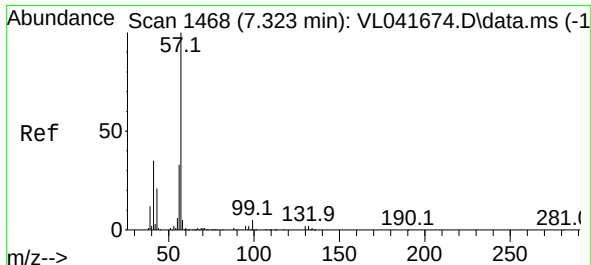
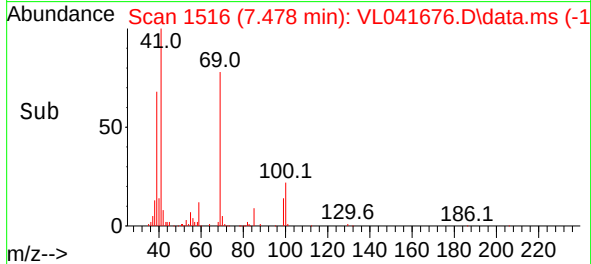
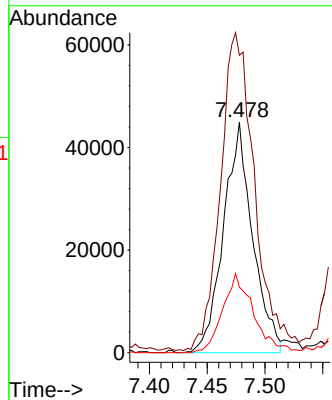
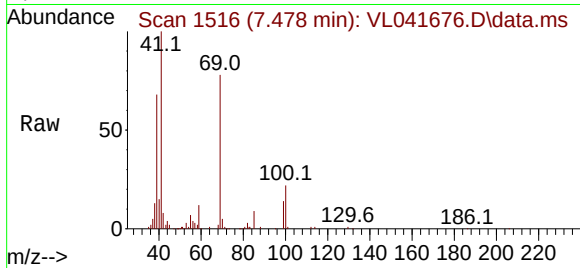
Tgt Ion: 69 Resp: 78902

Ion Ratio Lower Upper

69 100

41 164.4 119.8 179.6

100 36.2 27.3 40.9



#44

2,2,4-Trimethylpentane

Concen: 1.041 ppbv

RT: 7.327 min Scan# 1469

Delta R.T. 0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

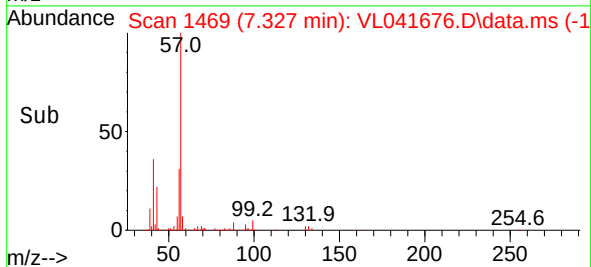
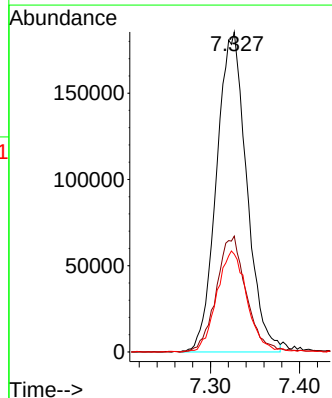
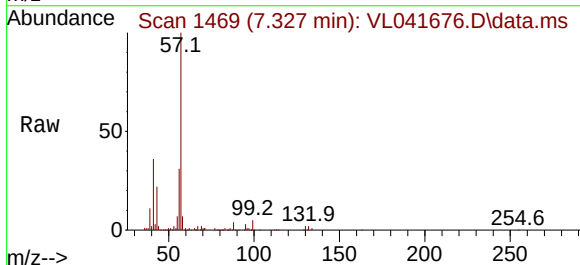
Tgt Ion: 57 Resp: 435343

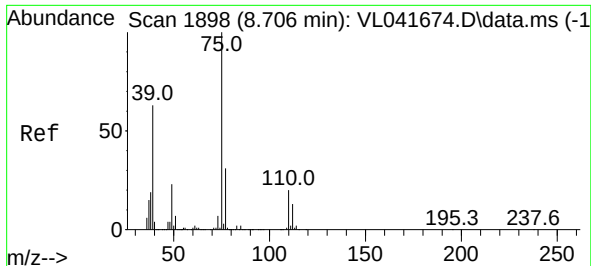
Ion Ratio Lower Upper

57 100

41 36.1 27.0 40.6

56 32.1 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 0.482 ppbv

RT: 8.709 min Scan# 1899

Delta R.T. 0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

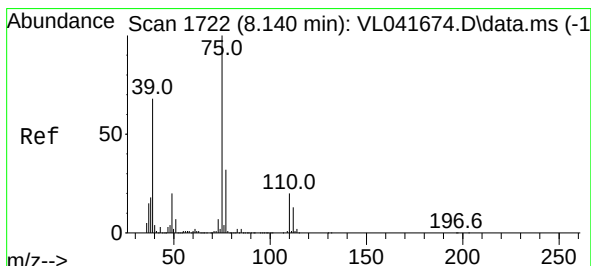
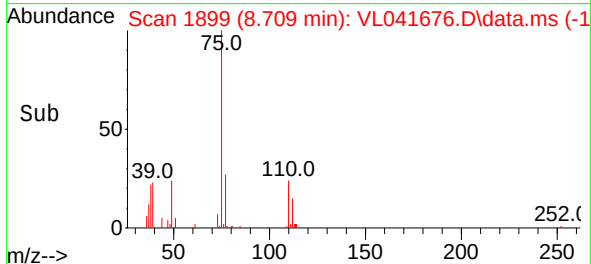
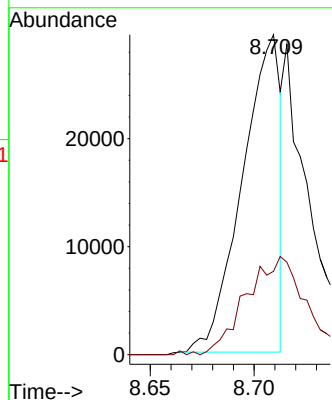
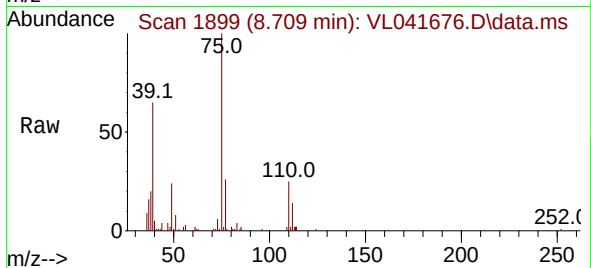
VSTDICC001

Tgt Ion: 75 Resp: 37335

Ion Ratio Lower Upper

75 100

77 27.2 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 0.901 ppbv

RT: 8.143 min Scan# 1723

Delta R.T. 0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

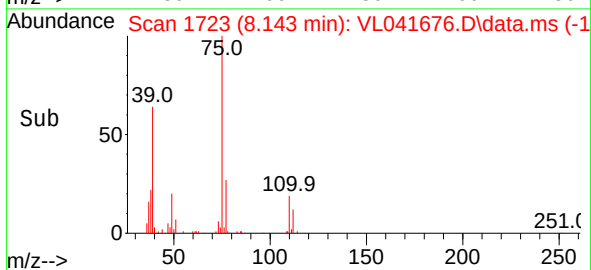
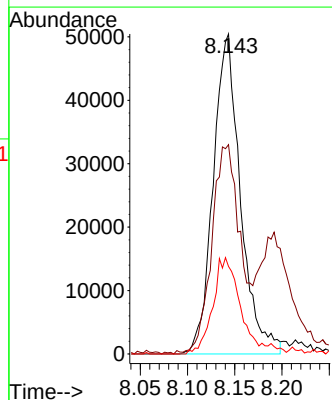
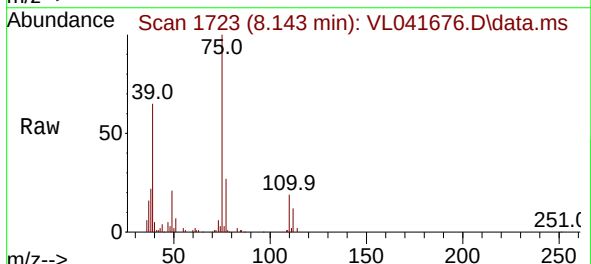
Tgt Ion: 75 Resp: 101425

Ion Ratio Lower Upper

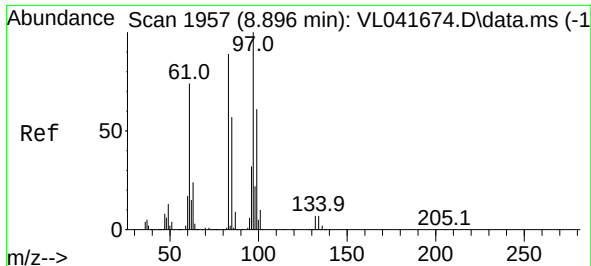
75 100

39 64.8 54.1 81.1

77 27.4 25.3 37.9







#47

1,1,2-Trichloroethane

Concen: 0.997 ppbv

RT: 8.896 min Scan# 1957

Delta R.T. 0.000 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 104883

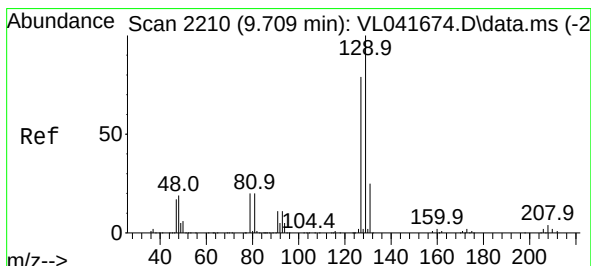
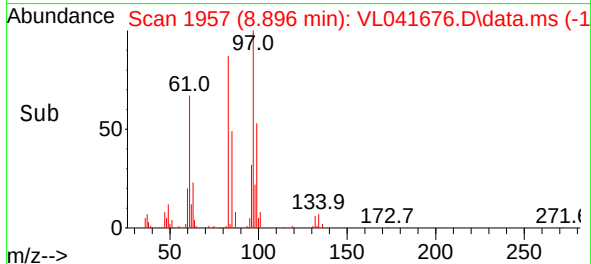
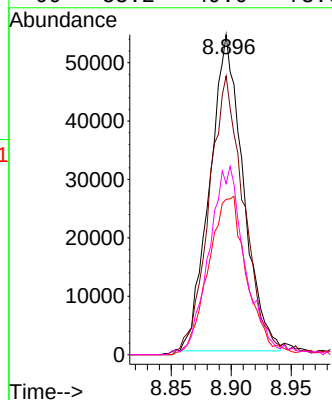
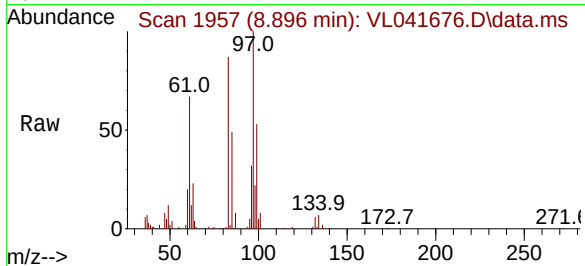
Ion Ratio Lower Upper

97 100

83 86.1 71.0 106.6

85 48.2 45.4 68.2

99 53.2 49.0 73.6



#48

Dibromochloromethane

Concen: 0.952 ppbv

RT: 9.709 min Scan# 2210

Delta R.T. 0.000 min

Lab File: VL041676.D

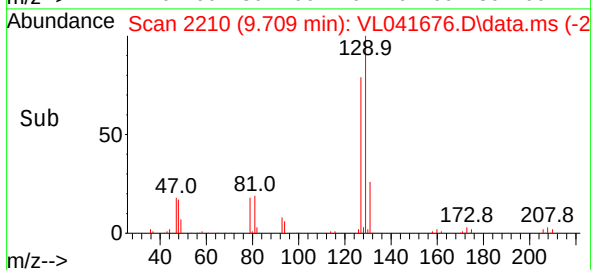
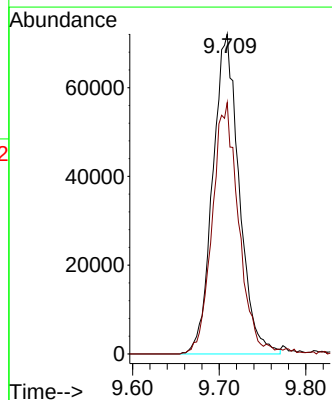
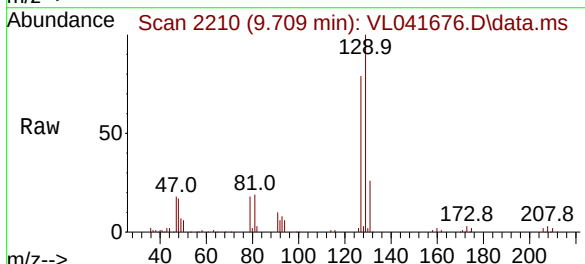
Acq: 7 Nov 2024 11:34

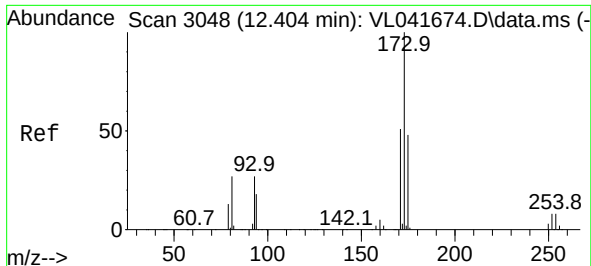
Tgt Ion: 129 Resp: 152757

Ion Ratio Lower Upper

129 100

127 79.4 39.1 117.2





#49

Bromoform

Concen: 0.449 ppbv

RT: 12.400 min Scan# 3048

Delta R.T. -0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC001

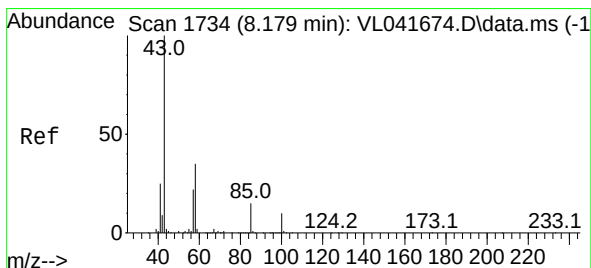
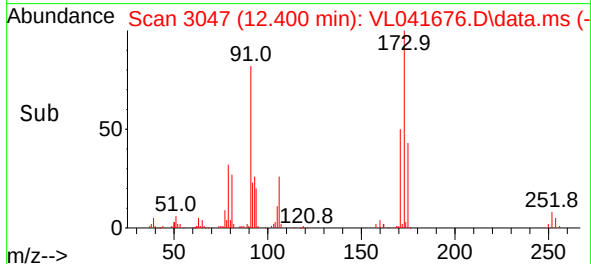
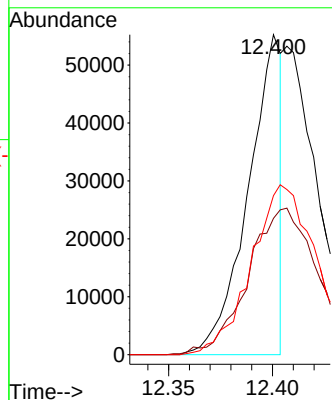
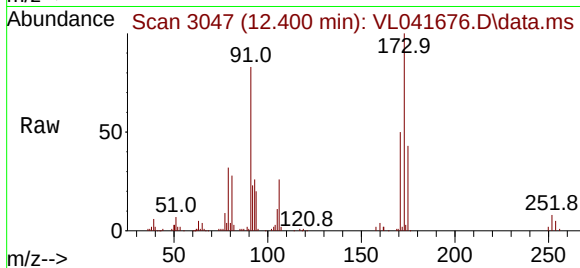
Tgt Ion:173 Resp: 61535

Ion Ratio Lower Upper

173 100

175 0.0 39.2 58.8#

171 0.0 41.7 62.5#



#50

4-Methyl-2-Pentanone

Concen: 0.985 ppbv

RT: 8.188 min Scan# 1737

Delta R.T. 0.010 min

Lab File: VL041676.D

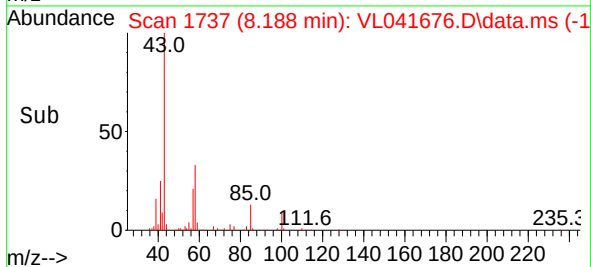
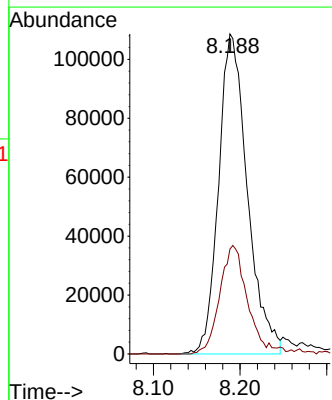
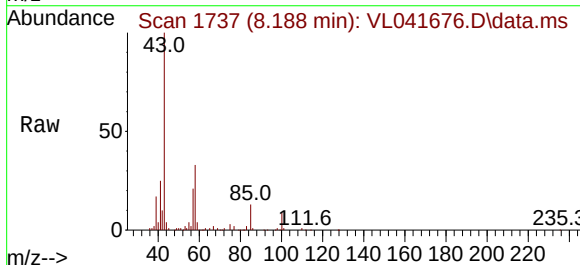
Acq: 7 Nov 2024 11:34

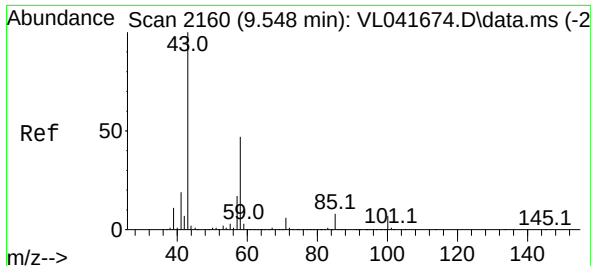
Tgt Ion: 43 Resp: 250885

Ion Ratio Lower Upper

43 100

58 34.0 27.7 41.5

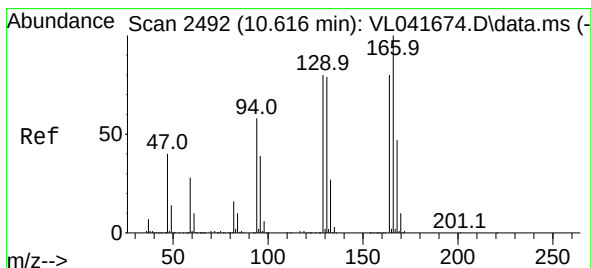
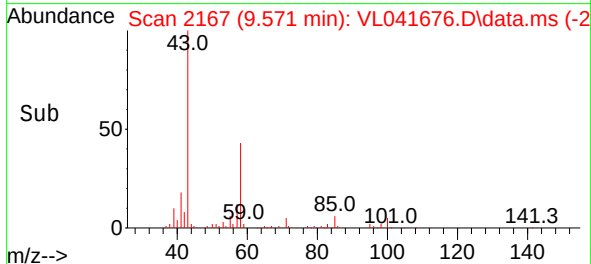
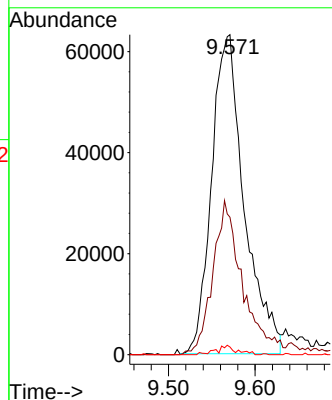
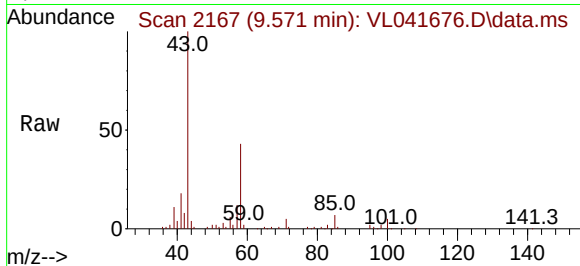




#51  
2-Hexanone  
Concen: 0.892 ppbv  
RT: 9.571 min Scan# 2160  
Delta R.T. 0.023 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

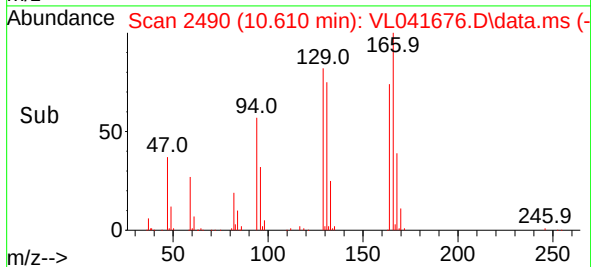
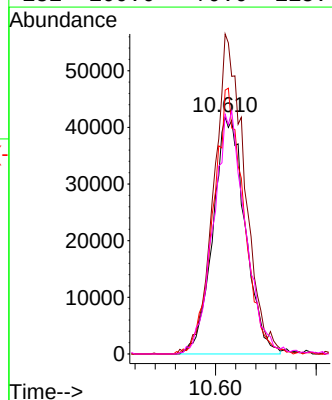
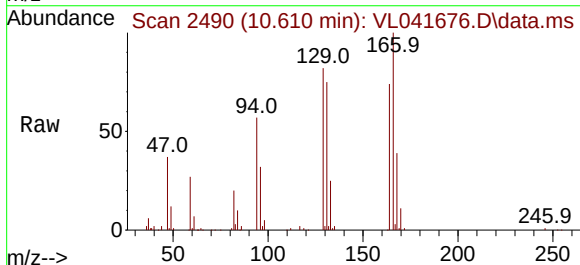
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

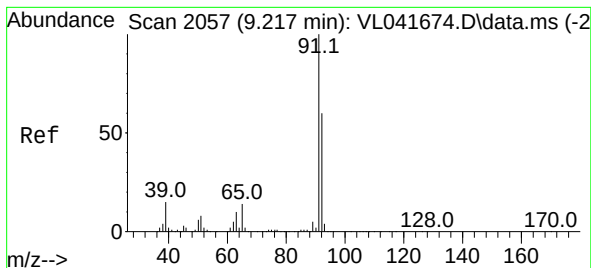
Tgt Ion: 43 Resp: 165158  
Ion Ratio Lower Upper  
43 100  
58 46.5 37.0 55.6  
98 1.8 0.6 0.8#



#52  
Tetrachloroethene  
Concen: 1.102 ppbv  
RT: 10.610 min Scan# 2490  
Delta R.T. -0.006 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 164 Resp: 92977  
Ion Ratio Lower Upper  
164 100  
166 133.1 100.2 150.4  
129 110.9 79.7 119.5  
131 100.6 79.0 118.4





#53

Toluene

Concen: 0.976 ppbv

RT: 9.217 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_1

ClientSampleId :

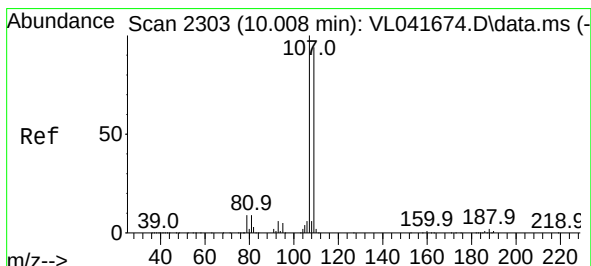
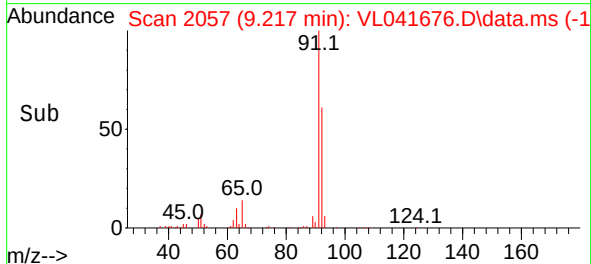
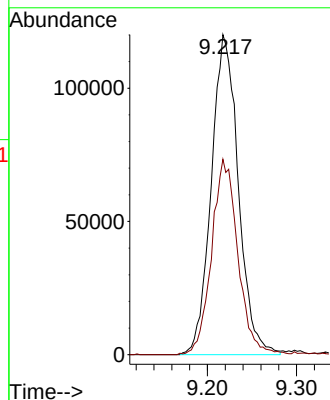
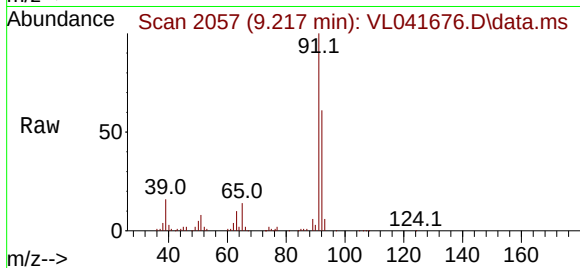
VSTDIC001

Tgt Ion: 91 Resp: 253501

Ion Ratio Lower Upper

91 100

92 59.4 49.0 73.4



#54

1,2-Dibromoethane

Concen: 0.994 ppbv

RT: 10.008 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VL041676.D

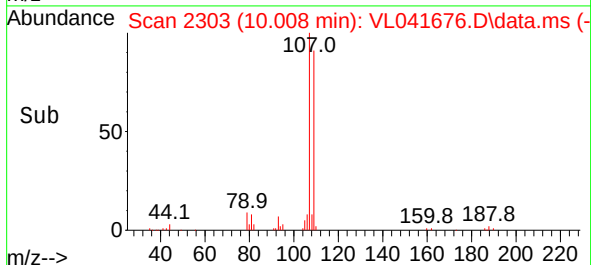
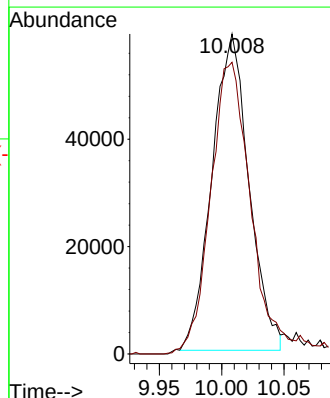
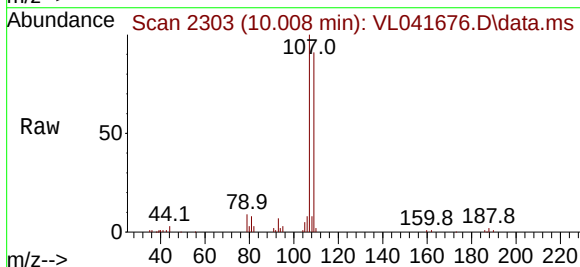
Acq: 7 Nov 2024 11:34

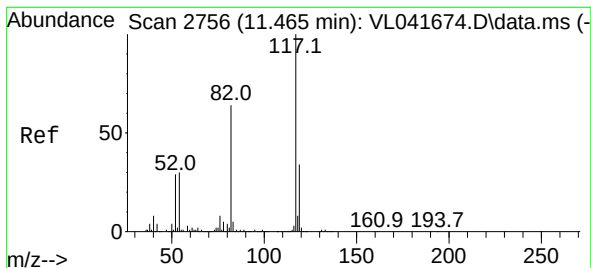
Tgt Ion: 107 Resp: 122096

Ion Ratio Lower Upper

107 100

109 90.5 74.9 112.3

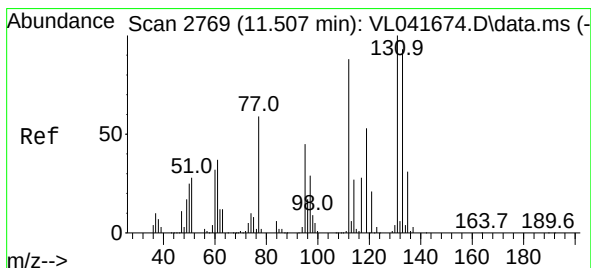
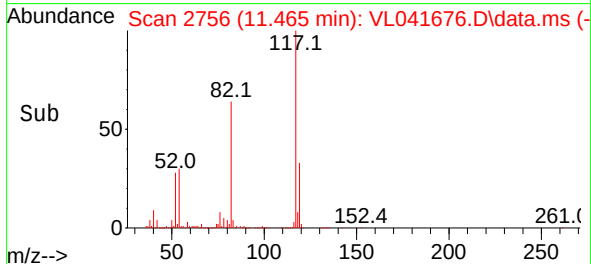
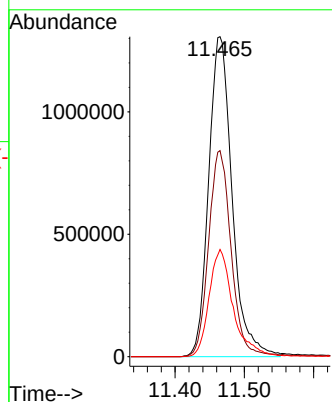
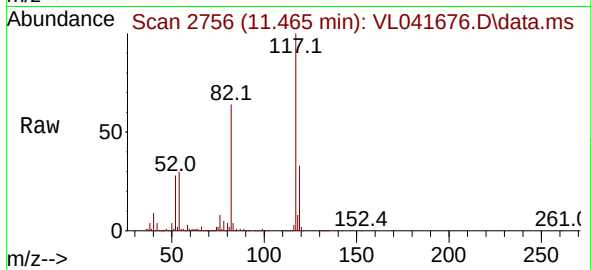




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.465 min Scan# 2756  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

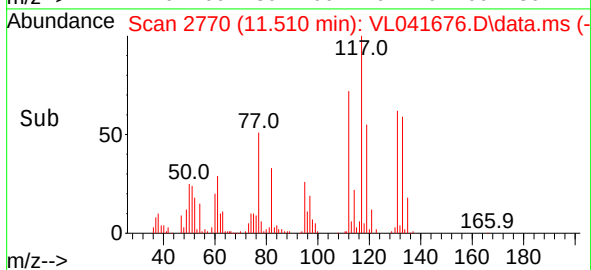
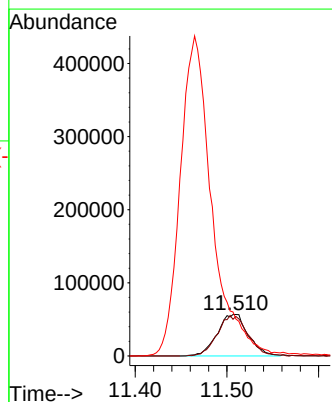
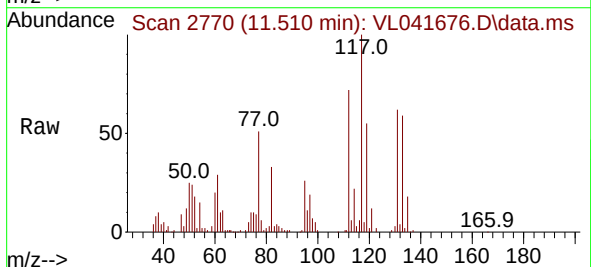
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

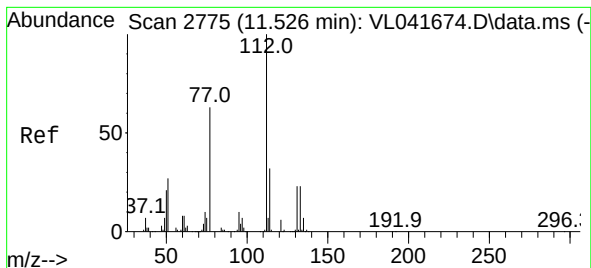
Tgt Ion:117 Resp: 3067671  
Ion Ratio Lower Upper  
117 100  
82 63.0 49.8 74.8  
119 34.8 24.2 36.4



#56  
1,1,1,2-Tetrachloroethane  
Concen: 1.043 ppbv  
RT: 11.510 min Scan# 2770  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion:131 Resp: 133283  
Ion Ratio Lower Upper  
131 100  
133 96.2 76.5 114.7  
119 798.1 49.8 74.8#

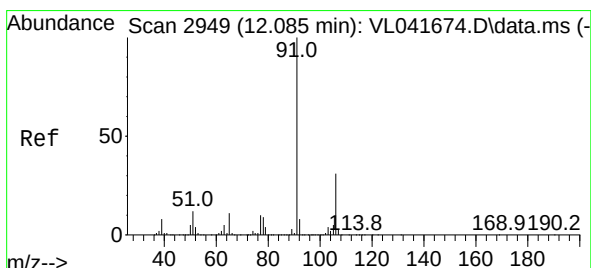
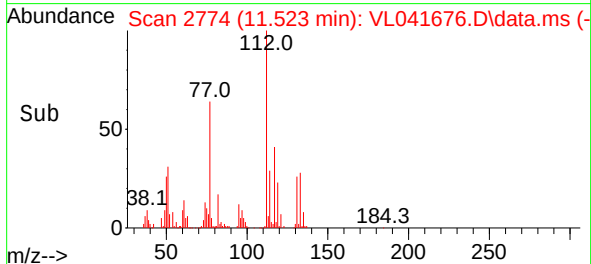
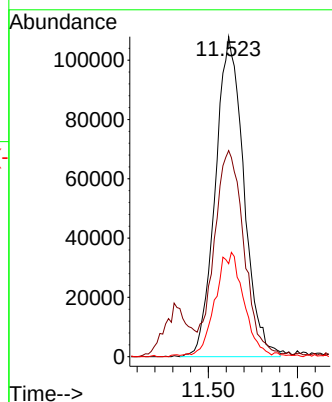
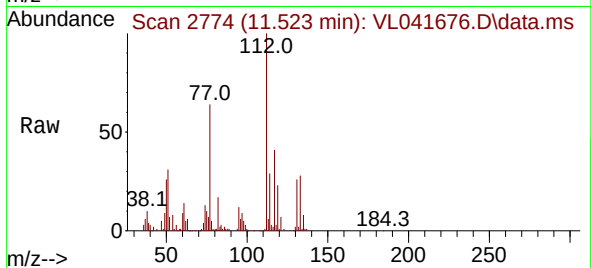




#57  
Chlorobenzene  
Concen: 1.047 ppbv  
RT: 11.523 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

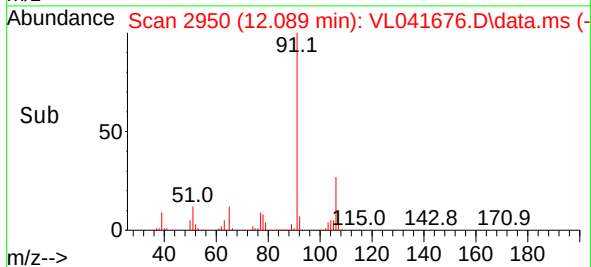
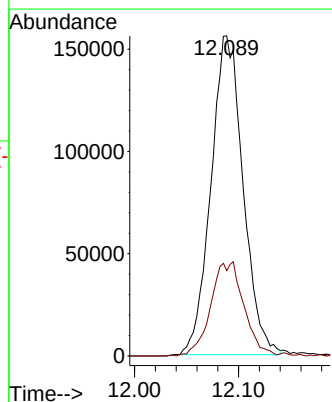
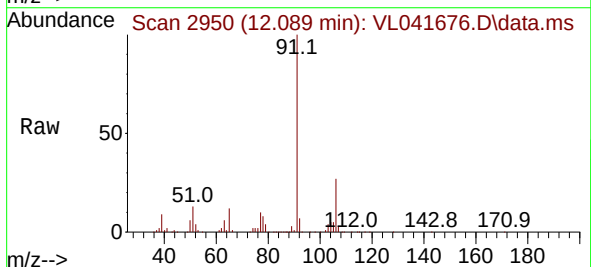
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

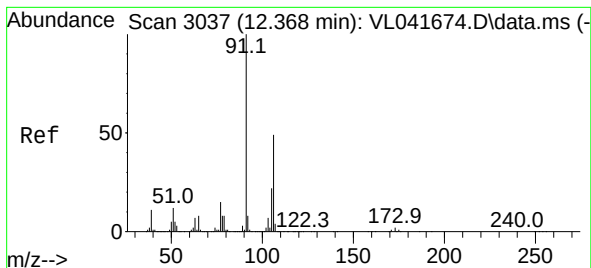
Tgt Ion:112 Resp: 239417  
Ion Ratio Lower Upper  
112 100  
77 63.4 51.4 77.2  
114 28.6 28.4 34.8



#58  
Ethyl Benzene  
Concen: 0.986 ppbv  
RT: 12.089 min Scan# 2950  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 91 Resp: 334939  
Ion Ratio Lower Upper  
91 100  
106 26.3 24.9 37.3

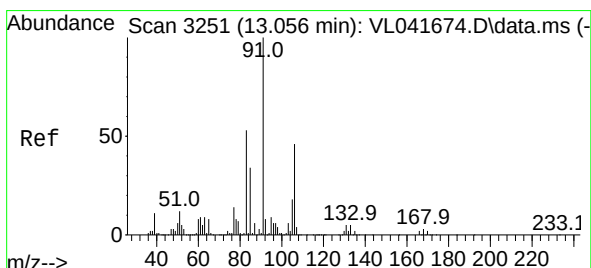
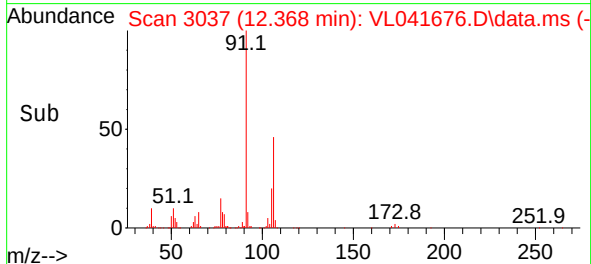
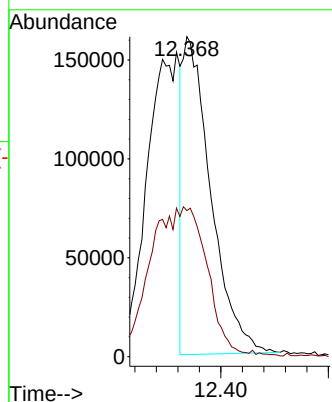
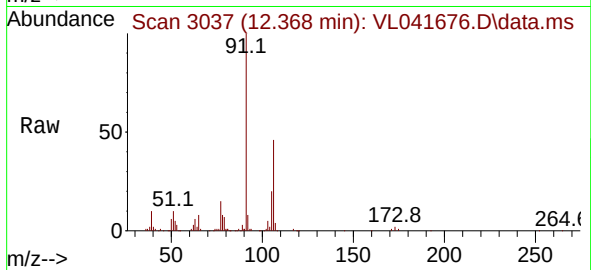




#59  
m/p-Xylene  
Concen: 0.959 ppbv  
RT: 12.368 min Scan# 3037  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

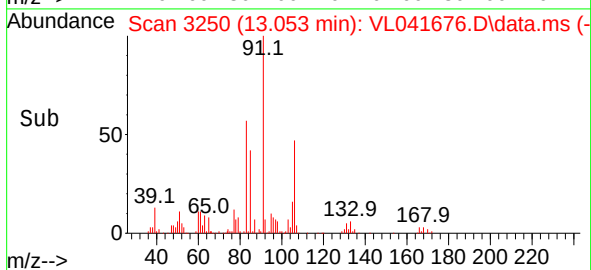
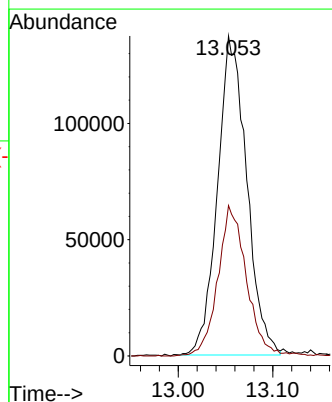
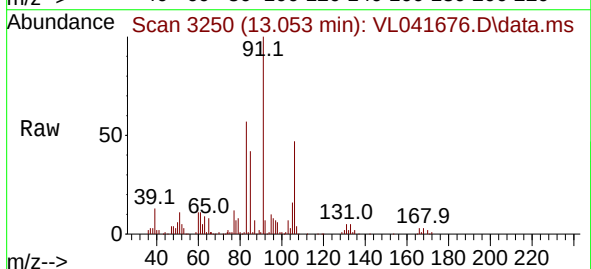
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

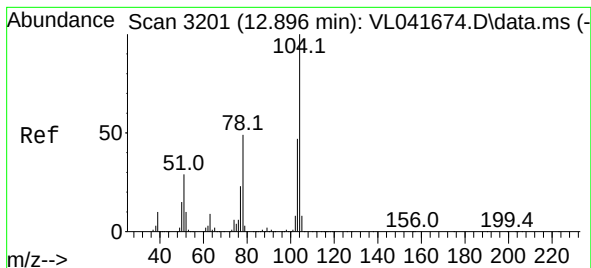
Tgt Ion: 91 Resp: 291390  
Ion Ratio Lower Upper  
91 100  
106 96.8 36.9 55.3#



#60  
o-Xylene  
Concen: 1.012 ppbv  
RT: 13.053 min Scan# 3250  
Delta R.T. -0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 91 Resp: 293793  
Ion Ratio Lower Upper  
91 100  
106 46.7 23.2 69.6





#61

Styrene

Concen: 0.859 ppbv

RT: 12.892 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

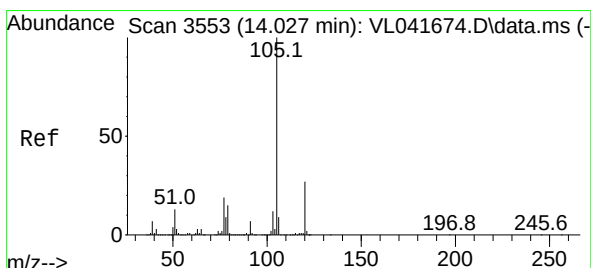
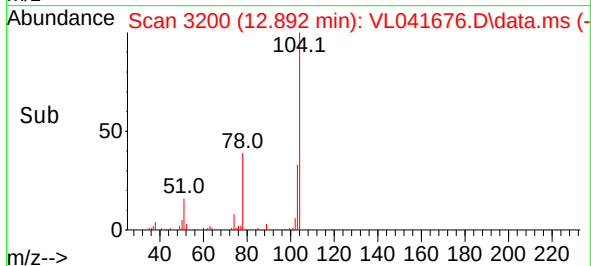
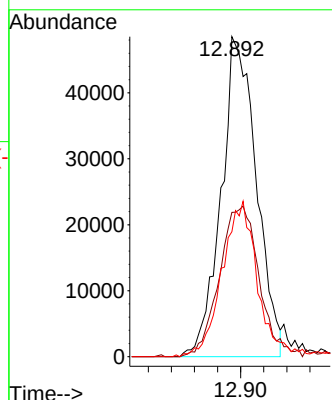
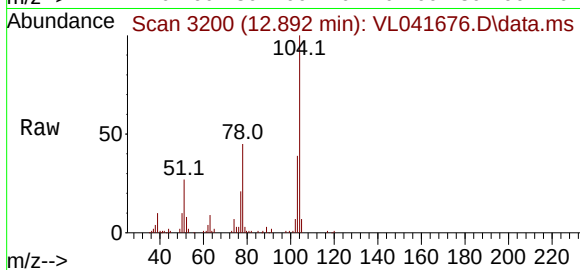
Tgt Ion:104 Resp: 102947

Ion Ratio Lower Upper

104 100

78 52.9 39.8 59.8

103 49.4 37.4 56.0



#62

Isopropylbenzene

Concen: 1.045 ppbv

RT: 14.031 min Scan# 3554

Delta R.T. 0.003 min

Lab File: VL041676.D

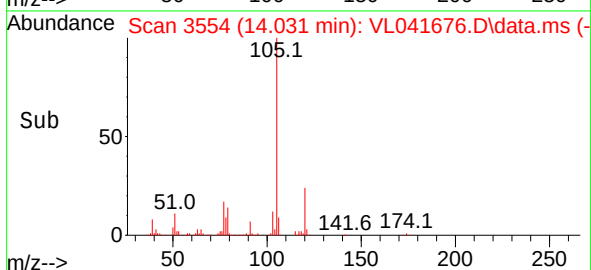
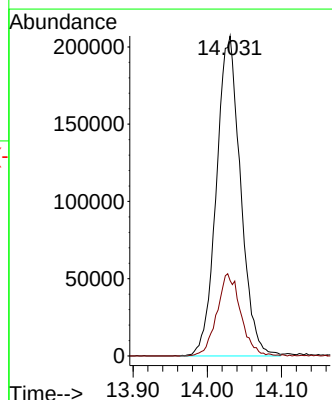
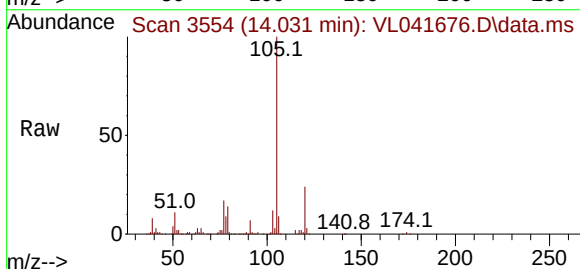
Acq: 7 Nov 2024 11:34

Tgt Ion:105 Resp: 468382

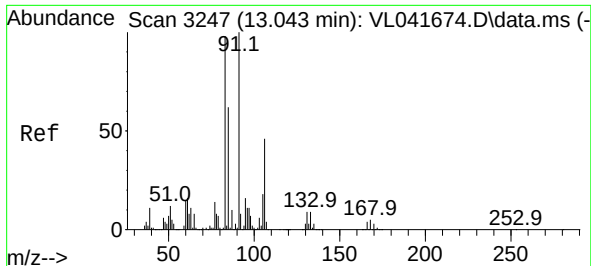
Ion Ratio Lower Upper

105 100

120 25.4 21.1 31.7







#63

1,1,2,2-Tetrachloroethane

Concen: 1.074 ppbv

RT: 13.047 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

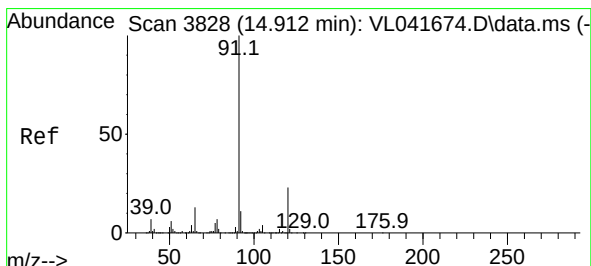
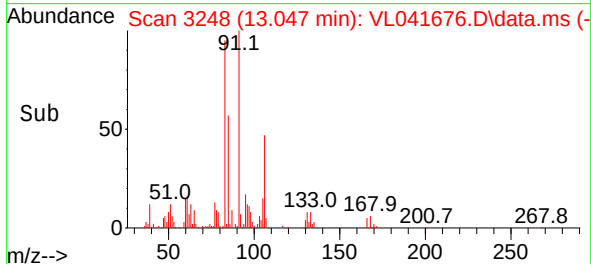
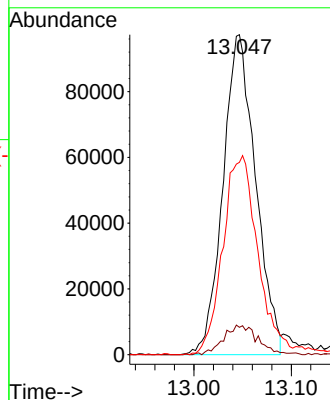
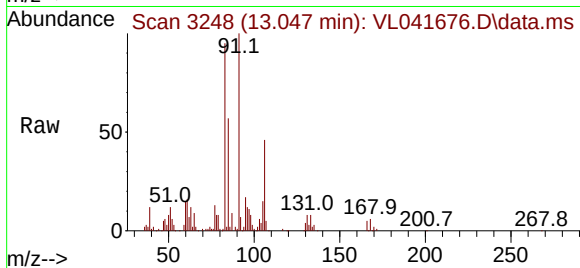
Tgt Ion: 83 Resp: 226867

Ion Ratio Lower Upper

83 100

131 9.8 4.8 14.3

85 68.1 32.6 98.0



#64

n-propylbenzene

Concen: 0.987 ppbv

RT: 14.915 min Scan# 3829

Delta R.T. 0.003 min

Lab File: VL041676.D

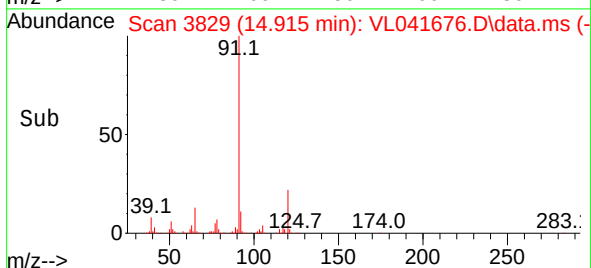
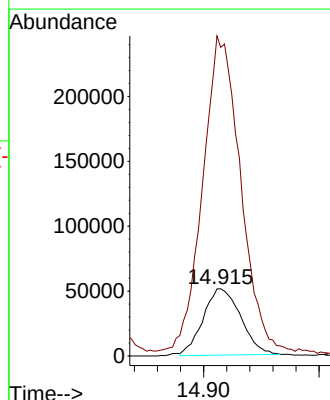
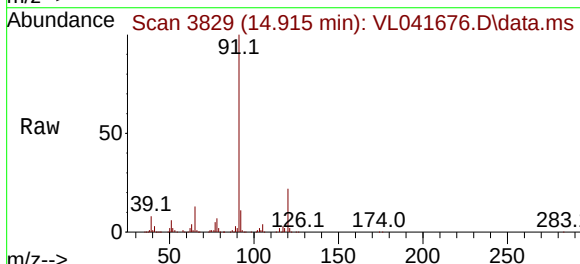
Acq: 7 Nov 2024 11:34

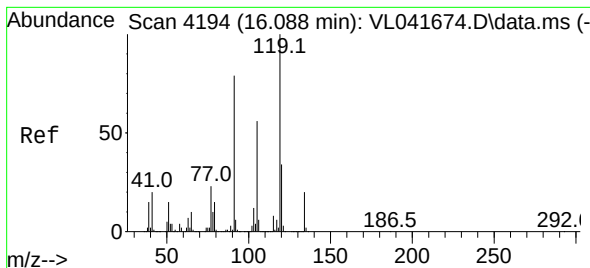
Tgt Ion:120 Resp: 115677

Ion Ratio Lower Upper

120 100

91 500.0 362.4 543.6





#65

tert-Butylbenzene

Concen: 1.053 ppbv

RT: 16.092 min Scan# 4195

Delta R.T. 0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

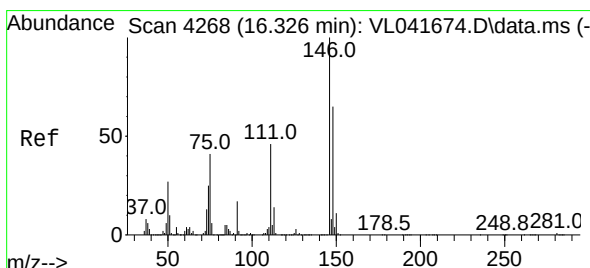
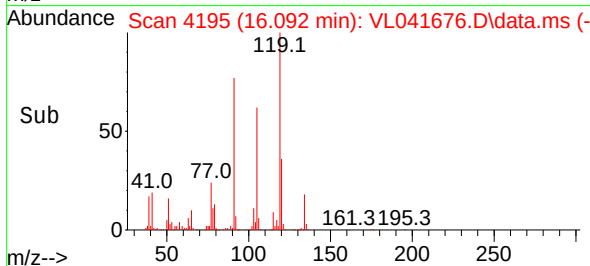
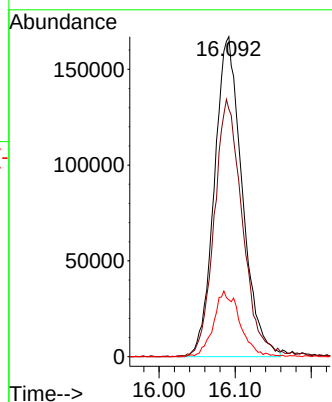
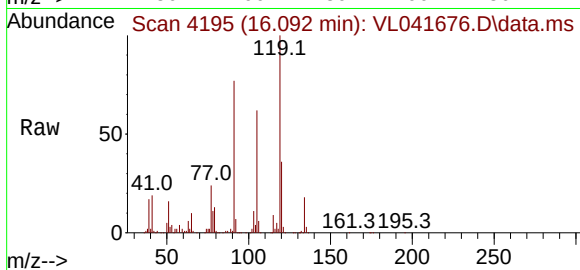
Tgt Ion:119 Resp: 424019

Ion Ratio Lower Upper

119 100

91 82.6 64.3 96.5

134 19.6 15.8 23.8



#66

Benzyl Chloride

Concen: 0.588 ppbv

RT: 16.326 min Scan# 4268

Delta R.T. 0.000 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

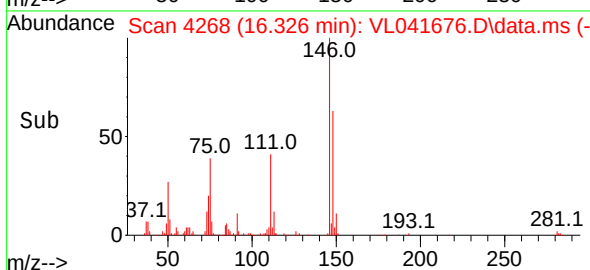
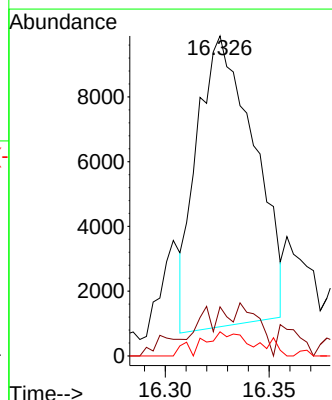
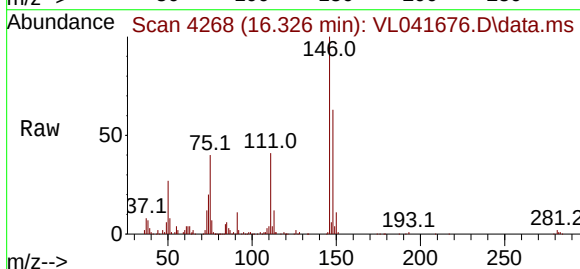
Tgt Ion: 91 Resp: 17066

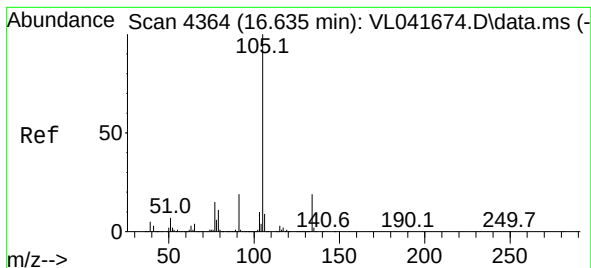
Ion Ratio Lower Upper

91 100

126 27.5 13.8 20.6#

128 7.8 4.3 6.5#





#67

sec-Butylbenzene

Concen: 1.051 ppbv

RT: 16.638 min Scan# 4365

Delta R.T. 0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_L

ClientSampleId :

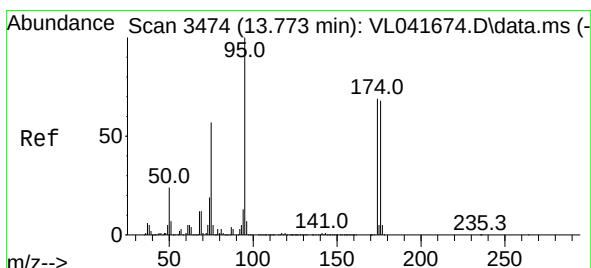
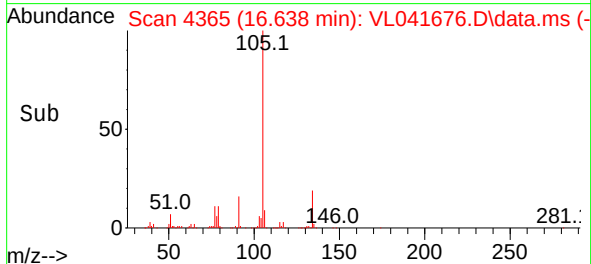
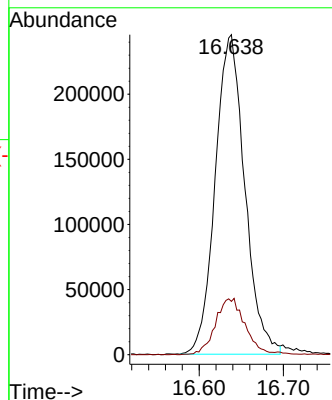
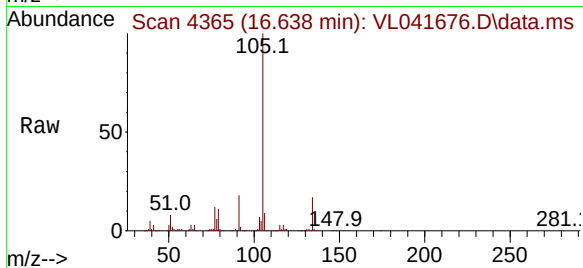
VSTDIC001

Tgt Ion:105 Resp: 596449

Ion Ratio Lower Upper

105 100

134 18.0 14.6 22.0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.073 ppbv

RT: 13.773 min Scan# 3474

Delta R.T. 0.000 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

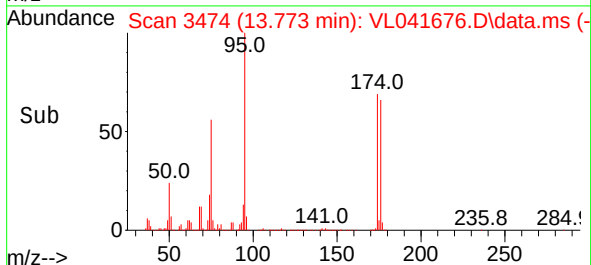
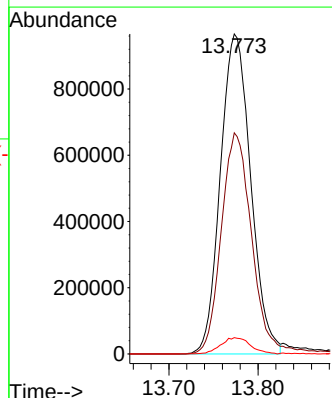
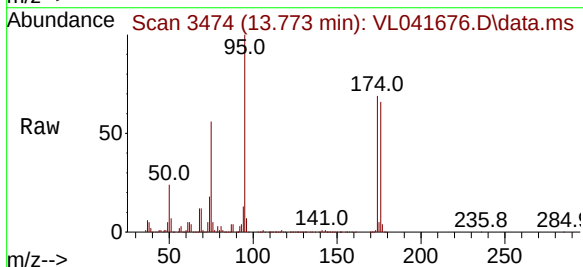
Tgt Ion: 95 Resp: 2285234

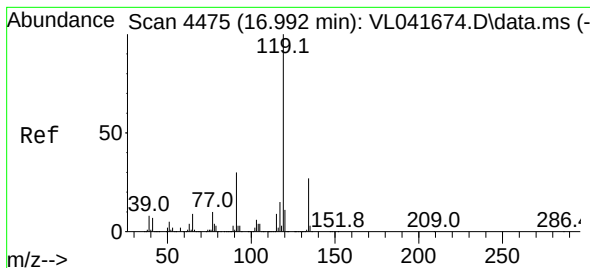
Ion Ratio Lower Upper

95 100

174 70.7 55.6 83.4

175 5.1 4.2 6.2

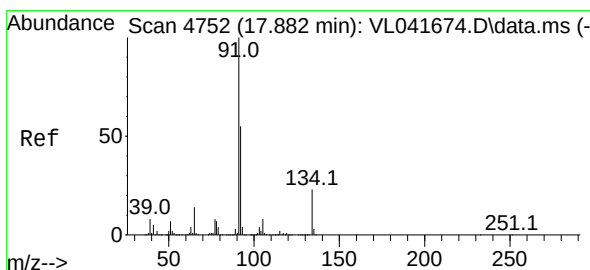
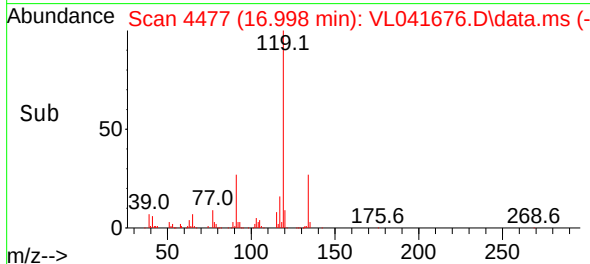
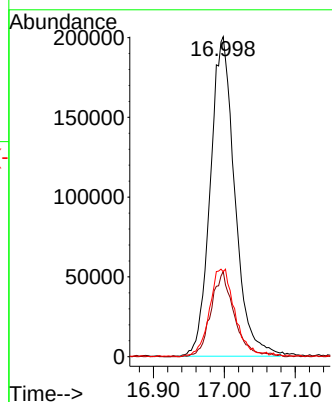
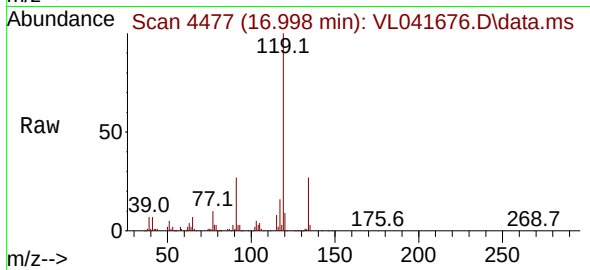




#69  
p-Isopropyltoluene  
Concen: 1.048 ppbv  
RT: 16.998 min Scan# 4477  
Delta R.T. 0.007 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

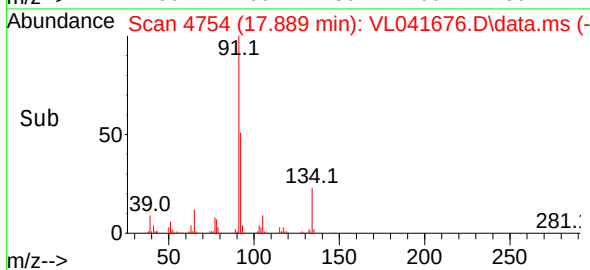
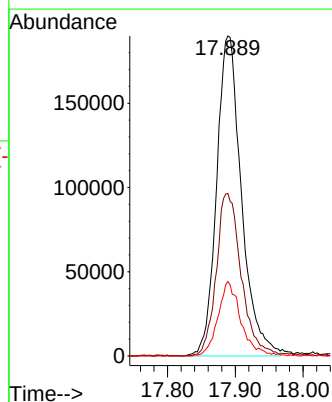
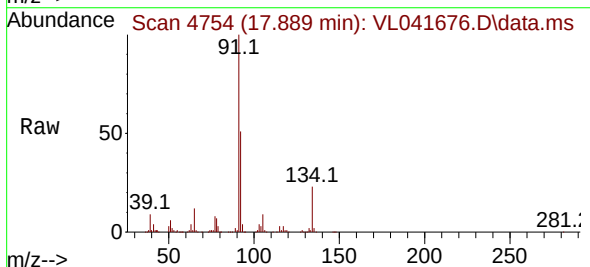
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

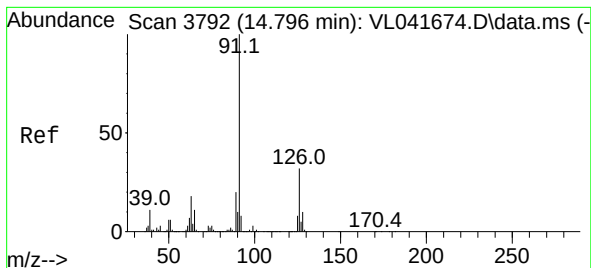
Tgt Ion:119 Resp: 480893  
Ion Ratio Lower Upper  
119 100  
134 25.5 20.8 31.2  
91 29.1 23.2 34.8



#70  
n-Butylbenzene  
Concen: 1.030 ppbv  
RT: 17.889 min Scan# 4754  
Delta R.T. 0.007 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion: 91 Resp: 484367  
Ion Ratio Lower Upper  
91 100  
92 51.6 43.3 64.9  
134 21.5 18.4 27.6

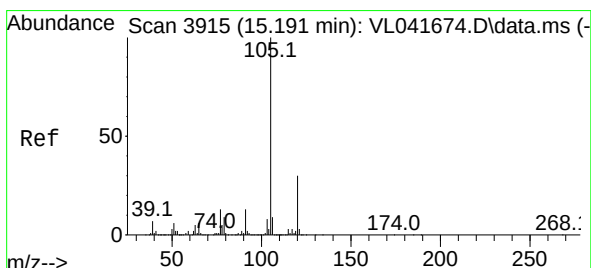
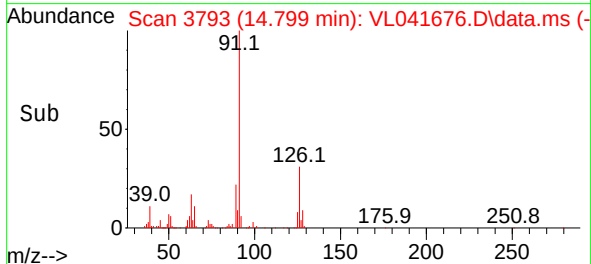
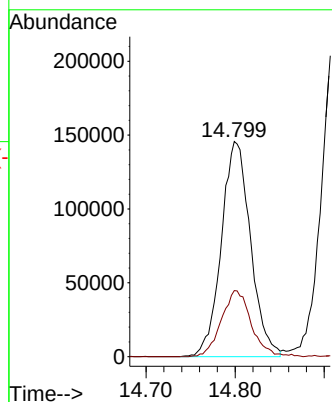
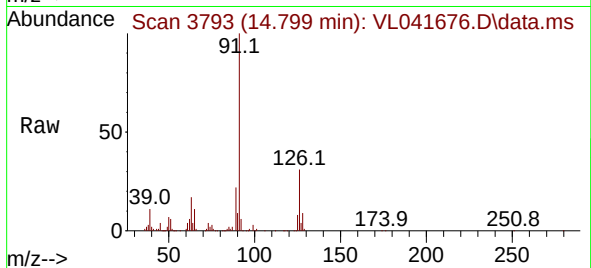




#71  
2-Chlorotoluene  
Concen: 1.024 ppbv  
RT: 14.799 min Scan# 3792  
Delta R.T. 0.003 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

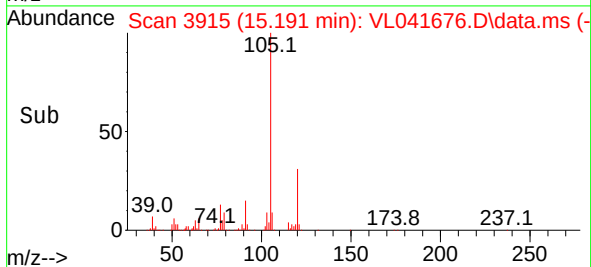
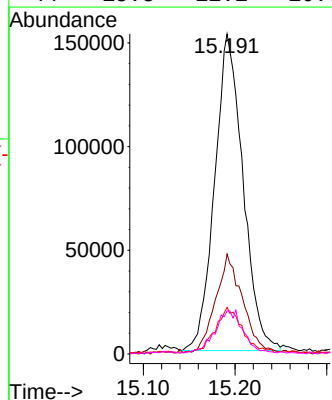
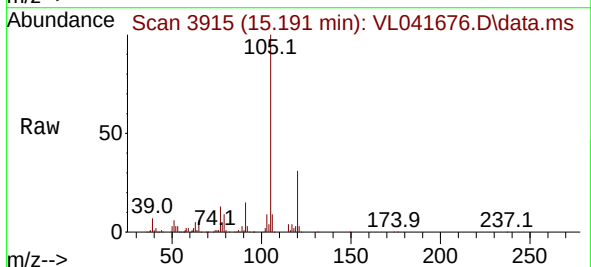
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

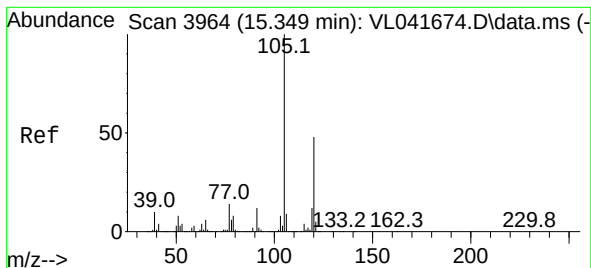
Tgt Ion: 91 Resp: 331921  
Ion Ratio Lower Upper  
91 100  
126 31.5 12.8 51.0



#72  
4-Ethyltoluene  
Concen: 0.972 ppbv  
RT: 15.191 min Scan# 3915  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion:105 Resp: 327541  
Ion Ratio Lower Upper  
105 100  
120 32.3 25.0 37.4  
91 13.6 10.6 15.8  
77 15.3 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.982 ppbv

RT: 15.352 min Scan# 3965

Delta R.T. 0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_1

ClientSampleId :

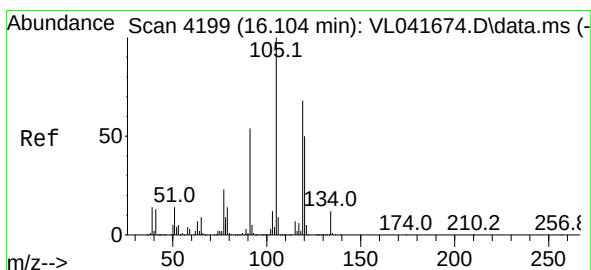
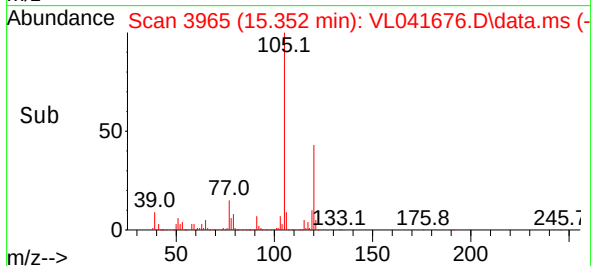
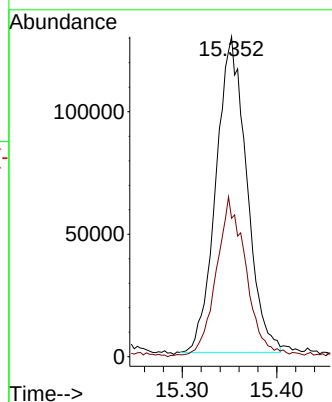
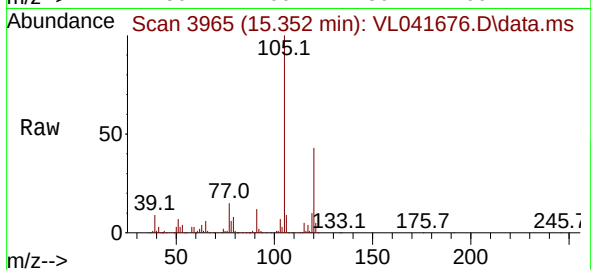
VSTDICC001

Tgt Ion:105 Resp: 290287

Ion Ratio Lower Upper

105 100

120 43.2 38.4 57.6



#74

1,2,4-Trimethylbenzene

Concen: 1.047 ppbv

RT: 16.111 min Scan# 4201

Delta R.T. 0.007 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Tgt Ion:105 Resp: 360083

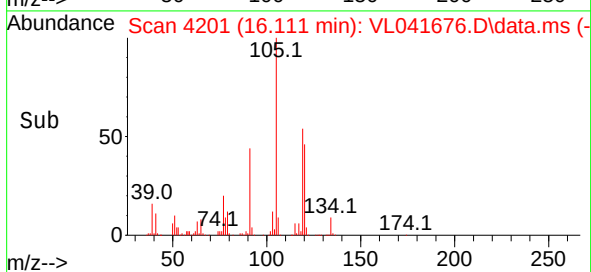
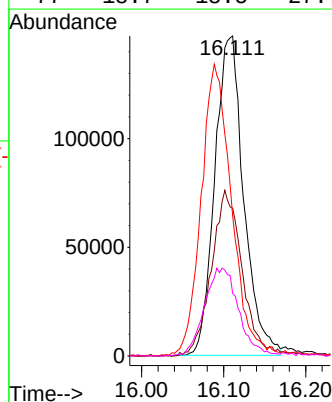
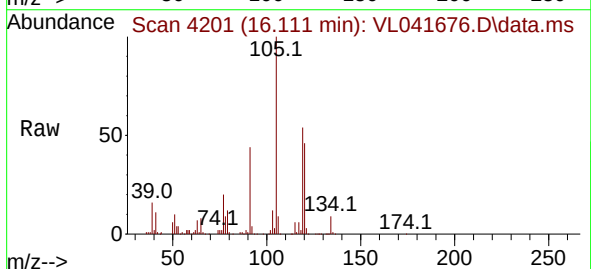
Ion Ratio Lower Upper

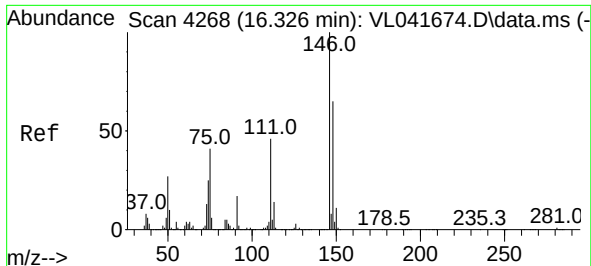
105 100

120 45.1 39.8 59.8

91 42.7 43.2 64.8#

77 18.7 18.5 27.7

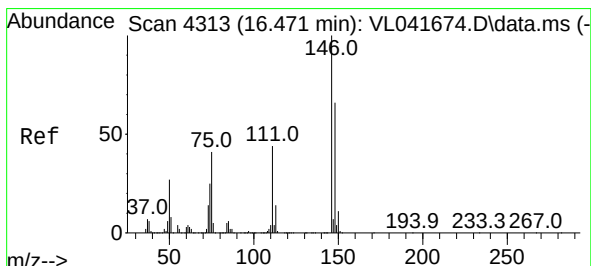
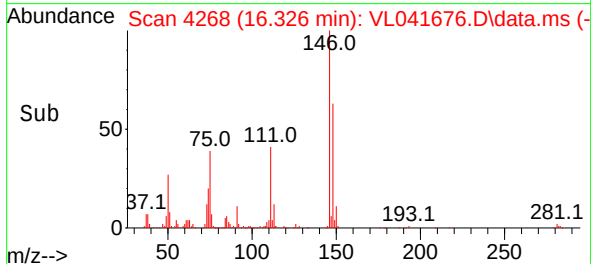
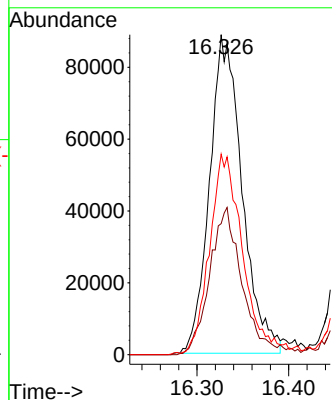
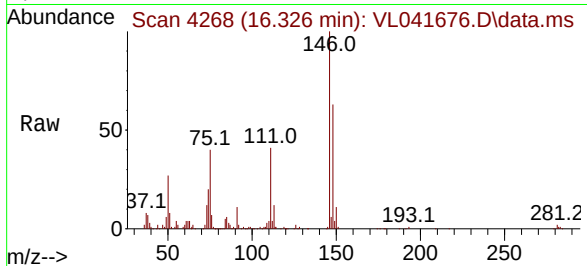




#75  
1,3-Dichlorobenzene  
Concen: 1.028 ppbv  
RT: 16.326 min Scan# 4268  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

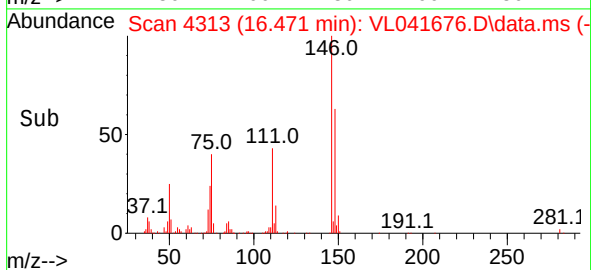
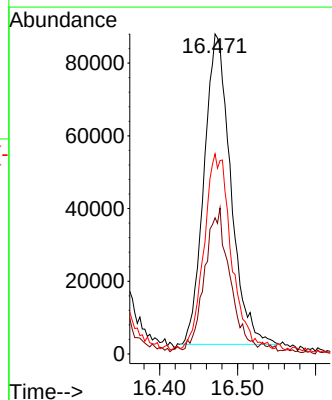
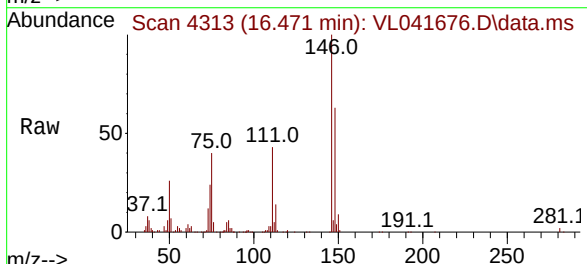
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

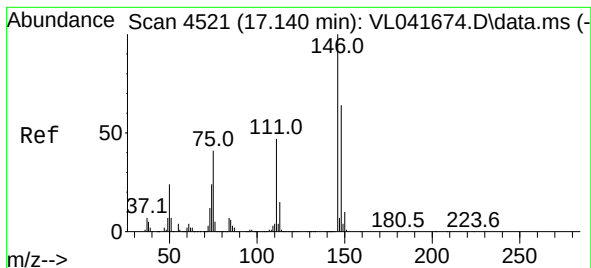
Tgt Ion:146 Resp: 218228  
Ion Ratio Lower Upper  
146 100  
111 46.5 22.8 68.3  
148 65.1 32.4 97.0



#76  
1,4-Dichlorobenzene  
Concen: 0.973 ppbv  
RT: 16.471 min Scan# 4313  
Delta R.T. 0.000 min  
Lab File: VL041676.D  
Acq: 7 Nov 2024 11:34

Tgt Ion:146 Resp: 203100  
Ion Ratio Lower Upper  
146 100  
111 48.9 22.1 66.3  
148 69.1 33.3 99.8





#77

1,2-Dichlorobenzene

Concen: 1.050 ppbv

RT: 17.143 min Scan# 4521

Delta R.T. 0.003 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC001

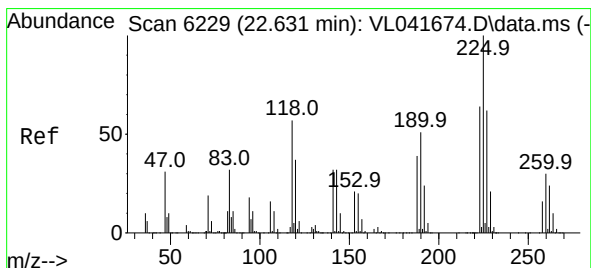
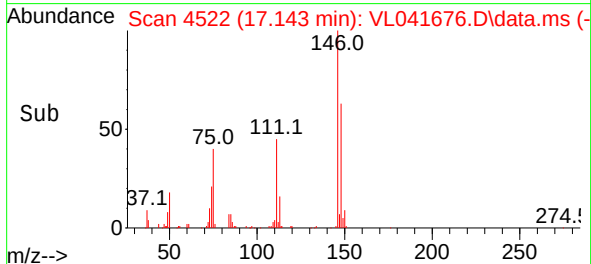
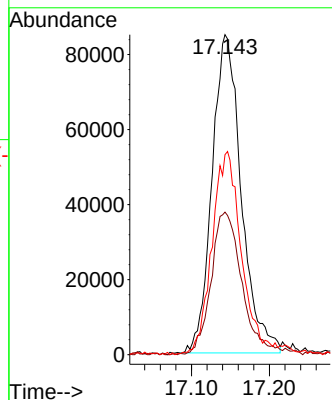
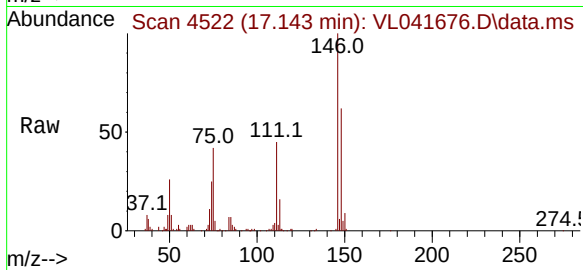
Tgt Ion:146 Resp: 221404

Ion Ratio Lower Upper

146 100

111 48.3 23.4 70.3

148 66.2 32.1 96.5



#78

Hexachloro-1,3-Butadiene

Concen: 0.600 ppbv

RT: 22.632 min Scan# 6229

Delta R.T. 0.000 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

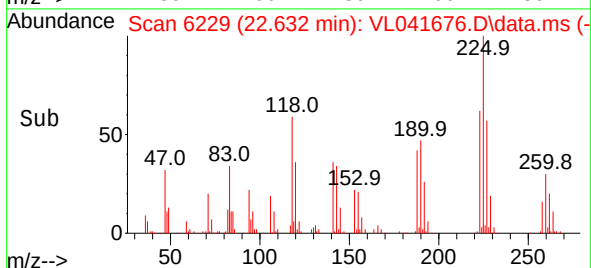
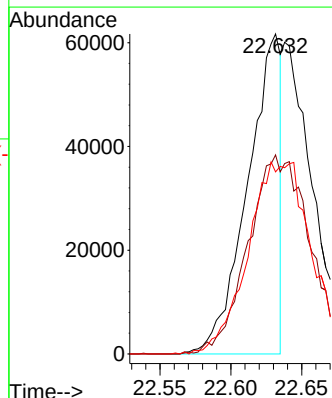
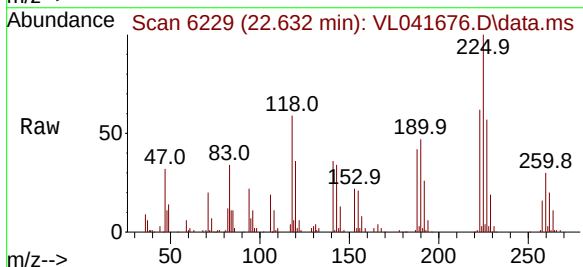
Tgt Ion:225 Resp: 100082

Ion Ratio Lower Upper

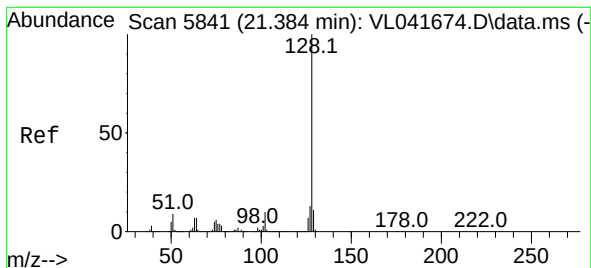
225 100

223 120.0 51.1 76.7#

227 118.1 51.3 76.9#







#79

Naphthalene

Concen: 0.344 ppbv

RT: 21.384 min Scan# 5841

Delta R.T. 0.000 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC001

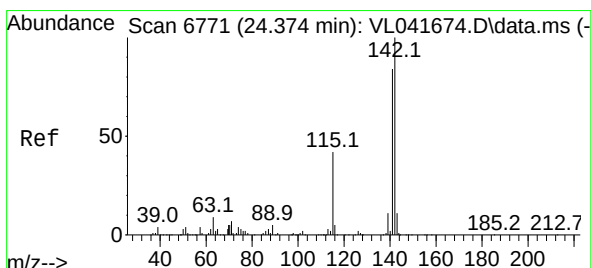
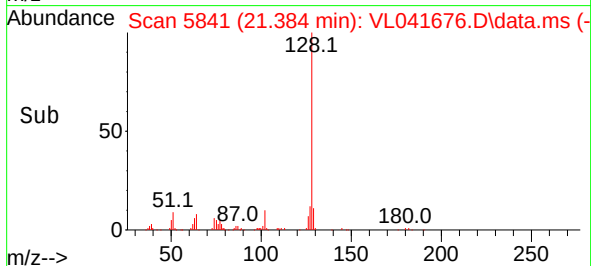
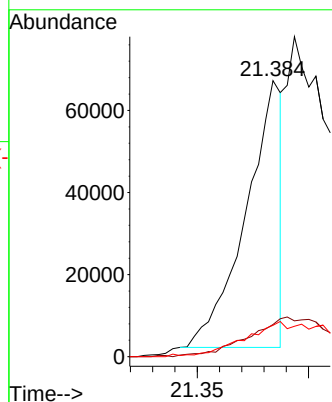
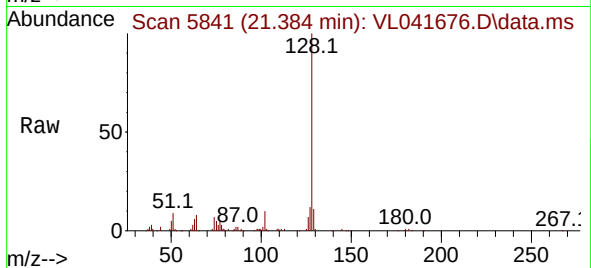
Tgt Ion:128 Resp: 72664

Ion Ratio Lower Upper

128 100

127 11.5 10.5 15.7

129 11.4 8.7 13.1



#80

Naphthalene,2-methyl-

Concen: 0.777 ppbv

RT: 24.374 min Scan# 6771

Delta R.T. 0.000 min

Lab File: VL041676.D

Acq: 7 Nov 2024 11:34

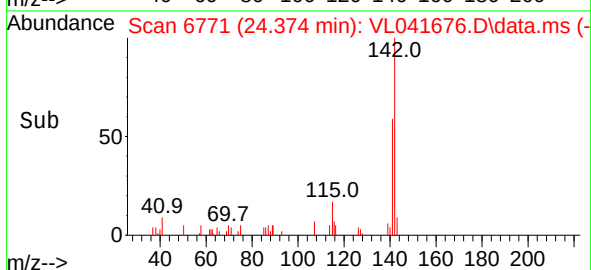
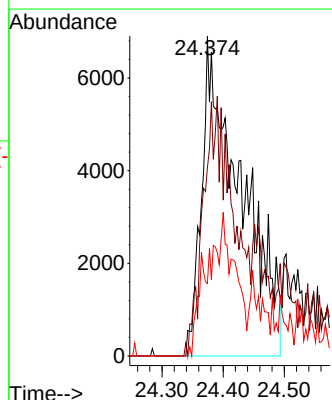
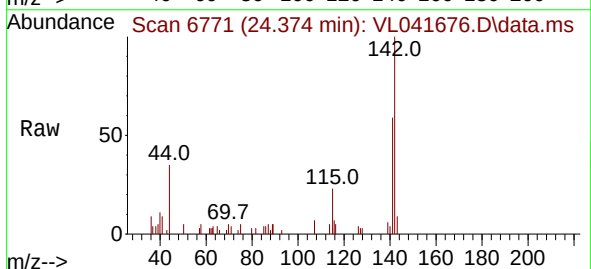
Tgt Ion:142 Resp: 30468

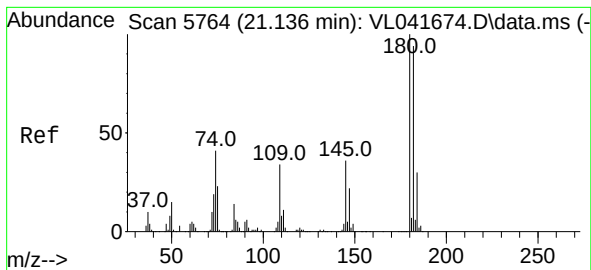
Ion Ratio Lower Upper

142 100

141 62.5 68.1 102.1#

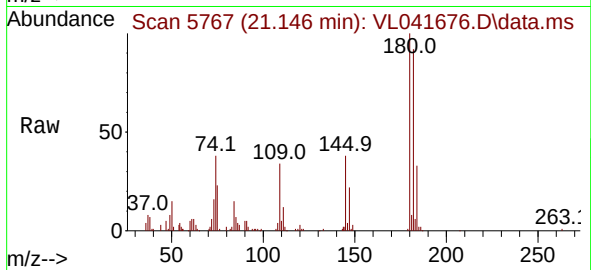
115 41.5 33.1 49.7



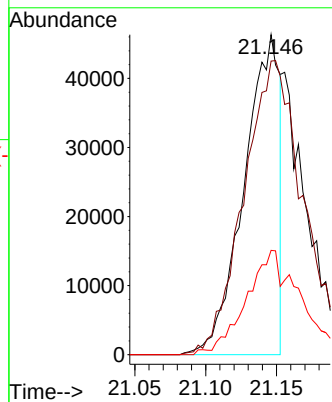
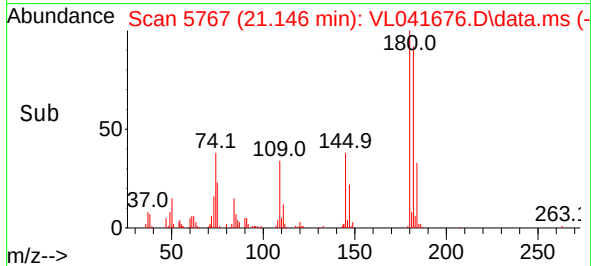


#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.613 ppbv  
 RT: 21.146 min Scan# 51  
 Delta R.T. 0.010 min  
 Lab File: VL041676.D  
 Acq: 7 Nov 2024 11:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



Tgt Ion:180 Resp: 80566  
 Ion Ratio Lower Upper  
 180 100  
 182 160.7 78.2 117.2#  
 184 52.7 25.0 37.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041677.D  
 Acq On : 7 Nov 2024 12:13  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Nov 08 00:11:14 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.189  | 49   | 1153970  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.648  | 114  | 3232256  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.465 | 117  | 2900644  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.777 | 95    | 2213310  | 10.318   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.200% |

| Target Compounds              |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.726 | 85  | 96069  | 0.461 | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 2.671 | 51  | 81180  | 0.540 | ppbv   | 99     |
| 4) Chloromethane              | 2.809 | 50  | 41203  | 0.517 | ppbv # | 86     |
| 5) Vinyl Chloride             | 2.915 | 62  | 36174  | 0.501 | ppbv   | 97     |
| 6) Bromomethane               | 3.118 | 94  | 19426  | 0.511 | ppbv # | 79     |
| 7) Chloroethane               | 3.192 | 64  | 13079  | 0.500 | ppbv   | 90     |
| 8) Dichlorotetrafluoroethane  | 2.854 | 85  | 102861 | 0.552 | ppbv   | 97     |
| 9) Propene                    | 2.690 | 41  | 32642  | 0.498 | ppbv   | 96     |
| 10) Heptane                   | 7.578 | 43  | 63040  | 0.429 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 3.558 | 101 | 92855  | 0.511 | ppbv   | 89     |
| 12) 1,1,2-Trichlorotrifluo... | 4.063 | 101 | 67243  | 0.509 | ppbv   | 96     |
| 13) Ethanol                   | 3.256 | 45  | 1137   | 0.279 | ppbv # | 1      |
| 14) Bromoethene               | 3.362 | 108 | 28054  | 0.528 | ppbv # | 88     |
| 15) Acetone                   | 3.481 | 43  | 69299  | 0.488 | ppbv # | 85     |
| 16) 1,3-Butadiene             | 2.983 | 39  | 33737  | 0.474 | ppbv   | 88     |
| 17) tert-Butyl alcohol        | 3.890 | 59  | 61100  | 0.490 | ppbv # | 93     |
| 18) 1,1-Dichloroethene        | 3.877 | 96  | 30772  | 0.531 | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.597 | 45  | 25362  | 0.369 | ppbv # | 75     |
| 20) Methylene Chloride        | 3.928 | 84  | 29673  | 0.568 | ppbv   | 97     |
| 21) Allyl Chloride            | 3.993 | 41  | 39722  | 0.453 | ppbv   | 86     |
| 22) trans-1,2-Dichloroethene  | 4.439 | 96  | 27393  | 0.474 | ppbv   | 96     |
| 23) Vinyl Acetate             | 4.629 | 43  | 24529  | 0.367 | ppbv # | 79     |
| 24) 1,1-Dichloroethane        | 4.562 | 63  | 61980  | 0.482 | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.211 | 43  | 140929 | 0.479 | ppbv # | 98     |
| 26) Hexane                    | 5.211 | 57  | 50843  | 0.450 | ppbv   | 81     |
| 27) Carbon Disulfide          | 4.121 | 76  | 52791  | 0.416 | ppbv # | 86     |
| 28) Methyl tert-Butyl Ether   | 4.594 | 73  | 34128  | 0.469 | ppbv   | 96     |
| 29) Chloroform                | 5.266 | 83  | 98787  | 0.530 | ppbv   | 93     |
| 30) Cyclohexane               | 6.600 | 84  | 33080  | 0.365 | ppbv # | 85     |
| 31) cis-1,2-Dichloroethene    | 5.076 | 61  | 50385  | 0.464 | ppbv   | 94     |
| 32) 1,1,1-Trichloroethane     | 5.999 | 97  | 84699  | 0.496 | ppbv   | 96     |
| 34) 2-Butanone                | 4.796 | 43  | 78940  | 0.490 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 6.488 | 117 | 49670  | 0.291 | ppbv   | 92     |
| 36) Benzene                   | 6.362 | 78  | 107078 | 0.447 | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 5.803 | 62  | 64024  | 0.474 | ppbv   | 97     |
| 38) Trichloroethene           | 7.291 | 130 | 42598  | 0.461 | ppbv # | 90     |
| 39) 1,2-Dichloropropane       | 7.070 | 63  | 44946  | 0.475 | ppbv   | 93     |
| 40) 1,4-Dioxane               | 7.291 | 88  | 145    | 0.004 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.574 | 42  | 18151  | 0.198 | ppbv # | 42     |
| 42) Bromodichloromethane      | 7.246 | 83  | 86164  | 0.459 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 7.475 | 69  | 29969  | 0.356 | ppbv   | 89     |
| 44) 2,2,4-Trimethylpentane    | 7.327 | 57  | 175510 | 0.433 | ppbv   | 93     |
| 45) t-1,3-Dichloropropene     | 8.709 | 75  | 22287  | 0.296 | ppbv   | 92     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041677.D  
 Acq On : 7 Nov 2024 12:13  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Nov 08 00:11:14 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Fri Nov 08 00:07:44 2024

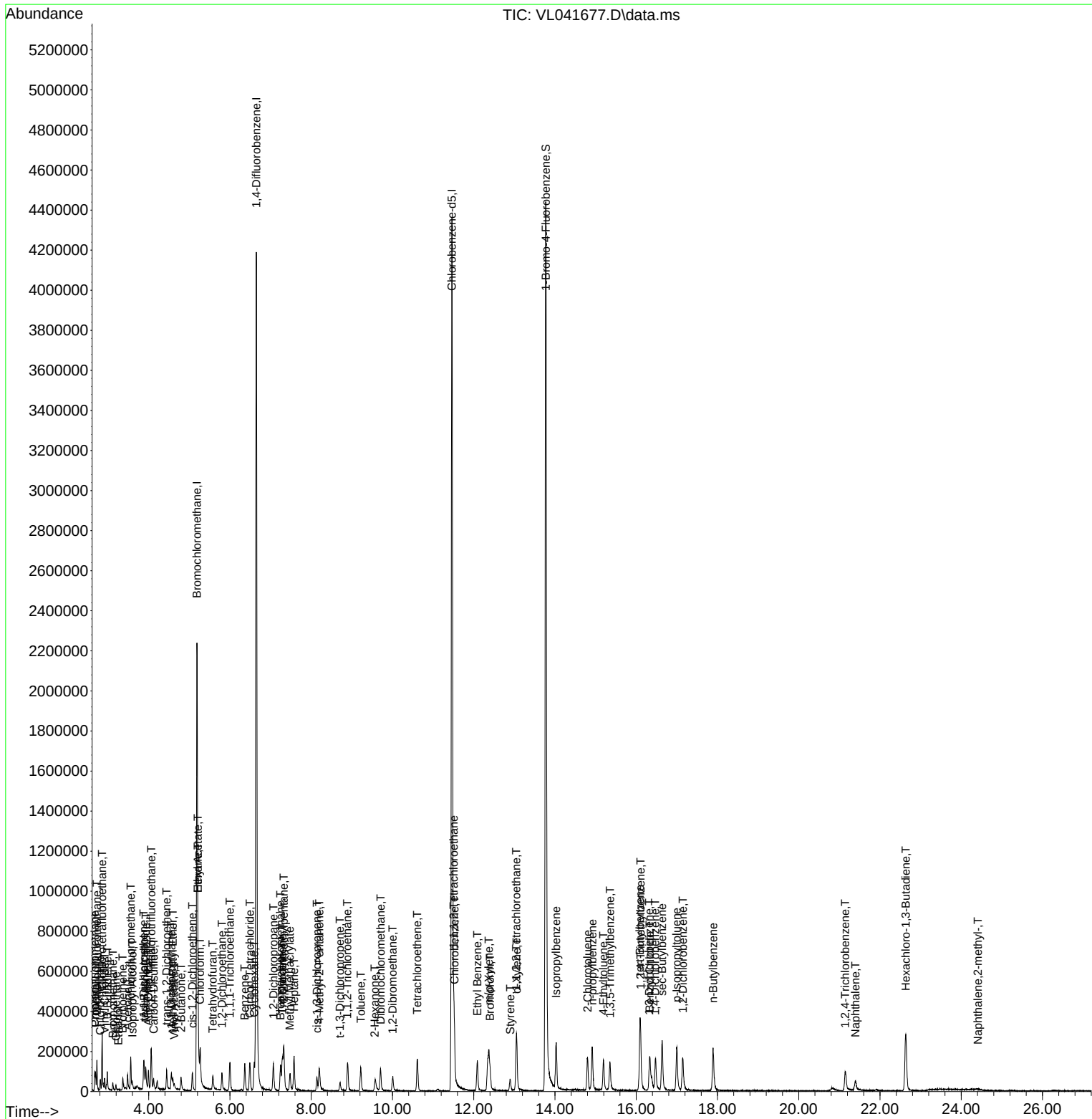
Response via : Initial Calibration

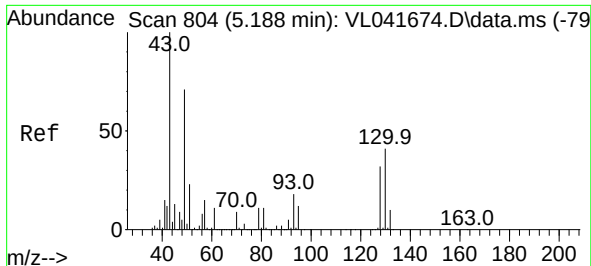
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.143  | 75   | 33612    | 0.308 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 8.889  | 97   | 30507    | 0.299 | ppbv   | 96       |
| 48) Dibromochloromethane      | 9.709  | 129  | 64053    | 0.411 | ppbv   | 99       |
| 49) Bromoform                 | 12.401 | 173  | 28465    | 0.214 | ppbv # | 27       |
| 50) 4-Methyl-2-Pentanone      | 8.198  | 43   | 90923    | 0.368 | ppbv   | 98       |
| 51) 2-Hexanone                | 9.565  | 43   | 16978    | 0.095 | ppbv # | 31       |
| 52) Tetrachloroethene         | 10.610 | 164  | 29917    | 0.365 | ppbv   | 89       |
| 53) Toluene                   | 9.221  | 91   | 90468    | 0.359 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.002 | 107  | 25474    | 0.214 | ppbv   | 87       |
| 56) 1,1,1,2-Tetrachloroethane | 11.510 | 131  | 61817    | 0.512 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.529 | 112  | 42625    | 0.197 | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.089 | 91   | 68854    | 0.214 | ppbv   | 96       |
| 59) m/p-Xylene                | 12.372 | 91   | 100159   | 0.348 | ppbv # | 4        |
| 60) o-Xylene                  | 13.060 | 91   | 111856   | 0.408 | ppbv   | 99       |
| 61) Styrene                   | 12.899 | 104  | 33155    | 0.293 | ppbv   | 94       |
| 62) Isopropylbenzene          | 14.031 | 105  | 187478   | 0.443 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.050 | 83   | 100534   | 0.503 | ppbv   | 96       |
| 64) n-propylbenzene           | 14.921 | 120  | 27038    | 0.244 | ppbv # | 1        |
| 65) tert-Butylbenzene         | 16.092 | 119  | 162846   | 0.428 | ppbv   | 95       |
| 66) Benzyl Chloride           | 16.330 | 91   | 2089     | 0.076 | ppbv # | 58       |
| 67) sec-Butylbenzene          | 16.638 | 105  | 230007   | 0.429 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 16.995 | 119  | 169014   | 0.389 | ppbv   | 95       |
| 70) n-Butylbenzene            | 17.892 | 91   | 158268   | 0.356 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 14.802 | 91   | 122982   | 0.401 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.191 | 105  | 113592   | 0.356 | ppbv # | 93       |
| 73) 1,3,5-Trimethylbenzene    | 15.355 | 105  | 69729    | 0.250 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.111 | 105  | 142178   | 0.437 | ppbv # | 87       |
| 75) 1,3-Dichlorobenzene       | 16.323 | 146  | 33527    | 0.167 | ppbv # | 23       |
| 76) 1,4-Dichlorobenzene       | 16.468 | 146  | 6516     | 0.033 | ppbv # | 23       |
| 77) 1,2-Dichlorobenzene       | 17.146 | 146  | 93228    | 0.468 | ppbv   | 94       |
| 78) Hexachloro-1,3-Butadiene  | 22.638 | 225  | 65313    | 0.414 | ppbv # | 73       |
| 79) Naphthalene               | 21.397 | 128  | 36894    | 0.185 | ppbv # | 94       |
| 80) Naphthalene,2-methyl-     | 24.410 | 142  | 11292    | 0.304 | ppbv # | 62       |
| 81) 1,2,4-Trichlorobenzene    | 21.143 | 180  | 18569    | 0.149 | ppbv # | 1        |

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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICCO.5

Quant Time: Nov 08 00:11:14 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

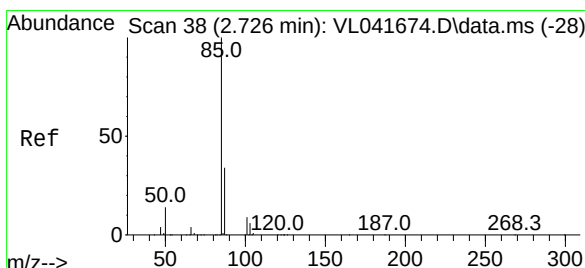
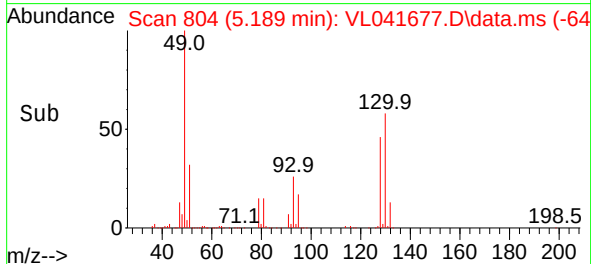
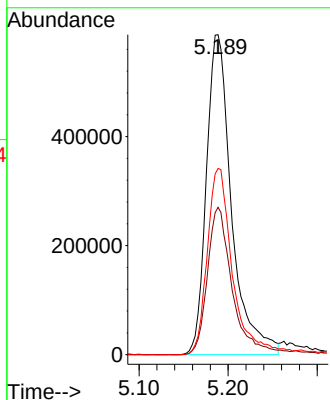
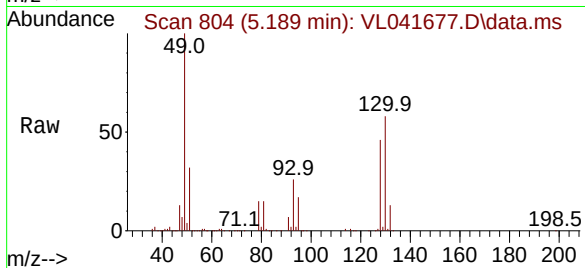




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.189 min Scan# 80  
 Delta R.T. 0.001 min  
 Lab File: VL041677.D  
 Acq: 7 Nov 2024 12:13

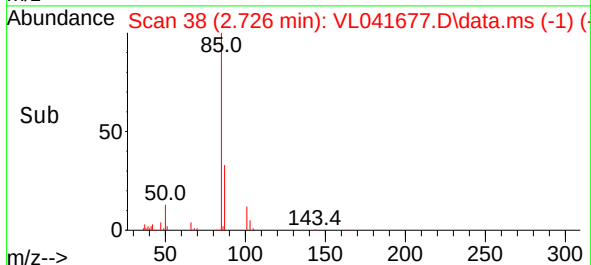
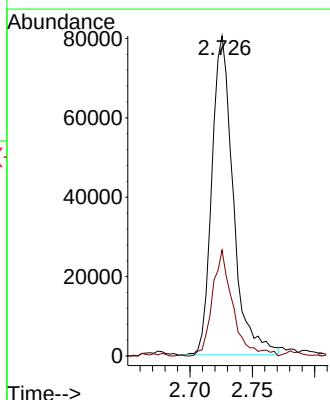
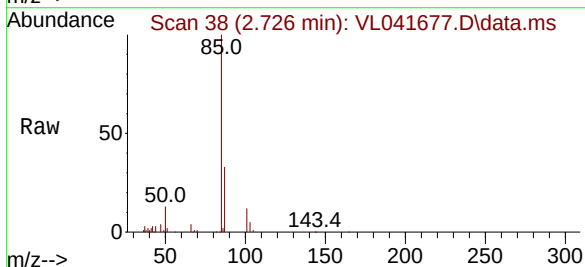
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

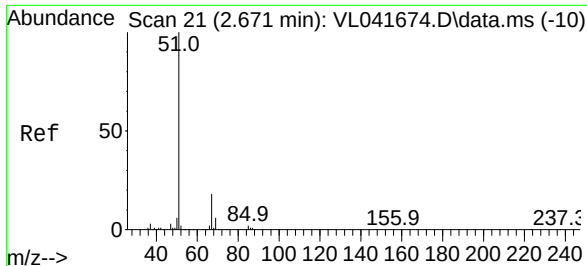
Tgt Ion: 49 Resp: 1153970  
 Ion Ratio Lower Upper  
 49 100  
 128 47.2 23.8 71.2  
 130 59.9 30.1 90.5



#2  
 Dichlorodifluoromethane  
 Concen: 0.461 ppbv  
 RT: 2.726 min Scan# 38  
 Delta R.T. 0.000 min  
 Lab File: VL041677.D  
 Acq: 7 Nov 2024 12:13

Tgt Ion: 85 Resp: 96069  
 Ion Ratio Lower Upper  
 85 100  
 87 33.2 26.8 40.2

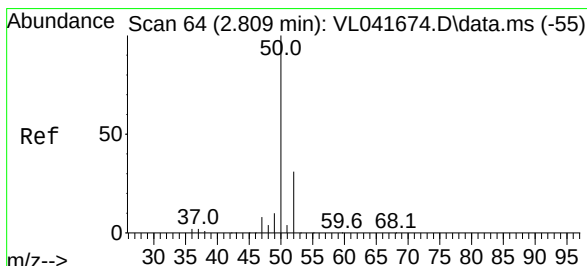
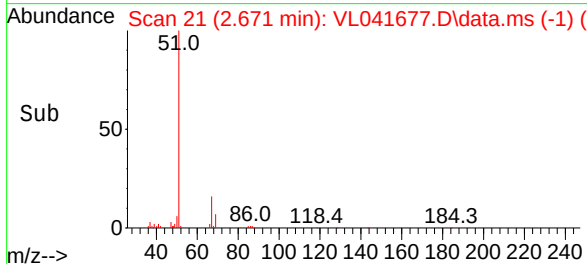
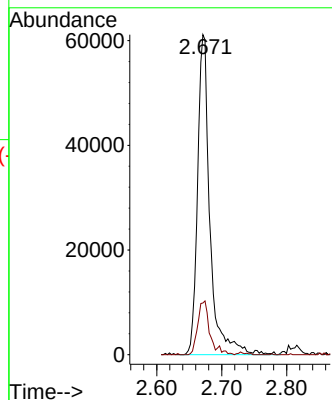
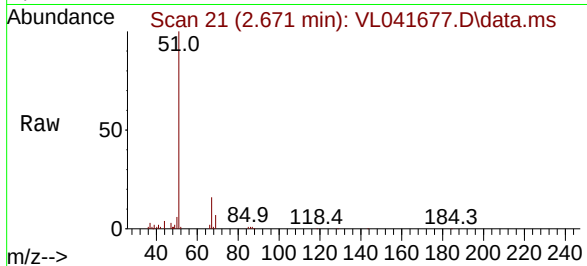




#3  
Chlorodifluoromethane  
Concen: 0.540 ppbv  
RT: 2.671 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

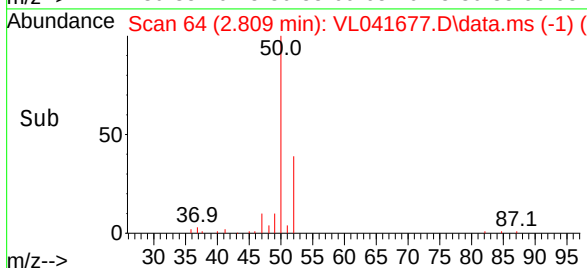
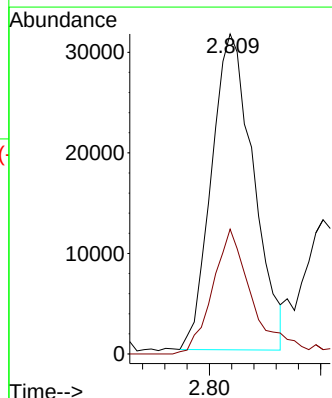
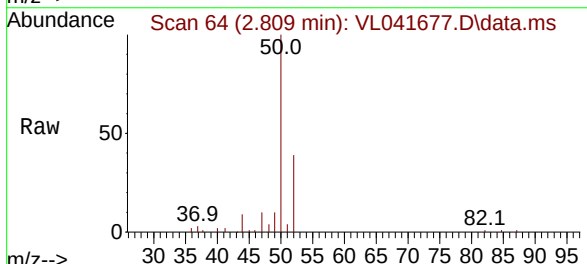
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

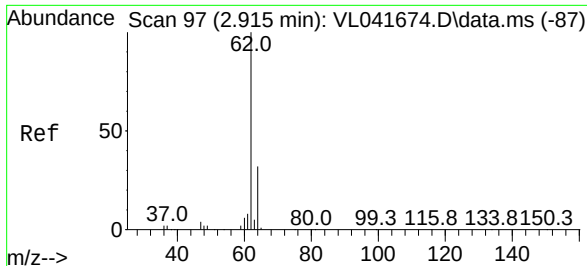
Tgt Ion: 51 Resp: 81180  
Ion Ratio Lower Upper  
51 100  
67 16.8 13.9 20.9



#4  
Chloromethane  
Concen: 0.517 ppbv  
RT: 2.809 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 50 Resp: 41203  
Ion Ratio Lower Upper  
50 100  
52 38.9 24.9 37.3#

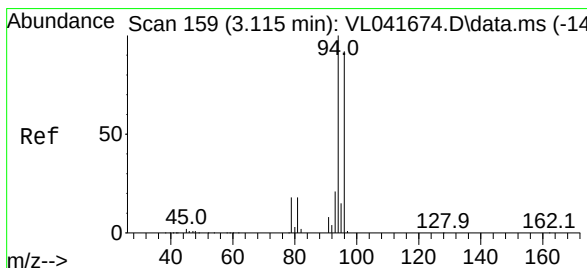
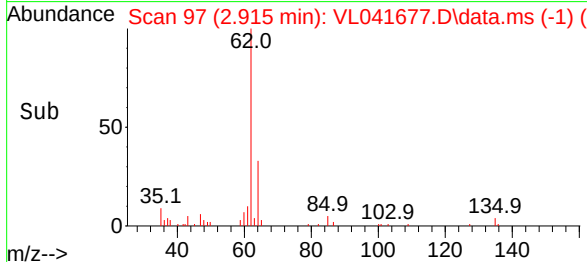
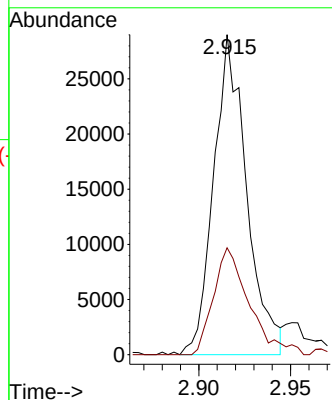
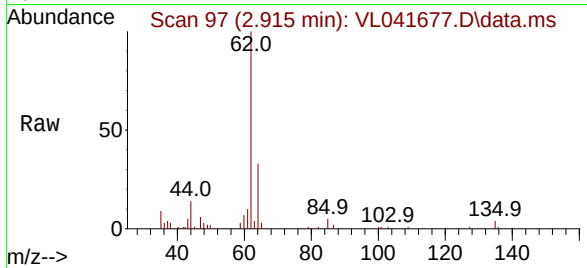




#5  
Vinyl Chloride  
Concen: 0.501 ppbv  
RT: 2.915 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

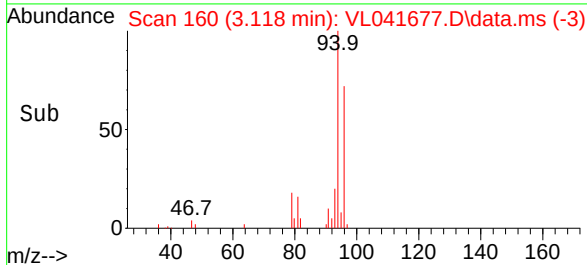
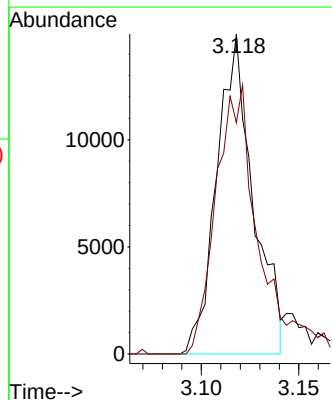
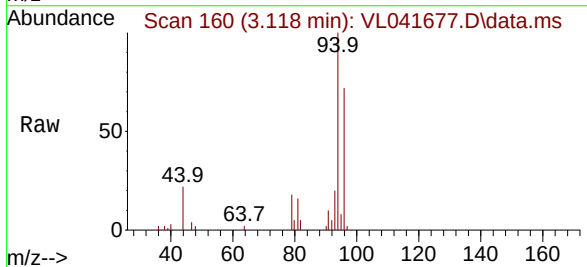
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 62 Resp: 36174  
Ion Ratio Lower Upper  
62 100  
64 33.4 25.4 38.2

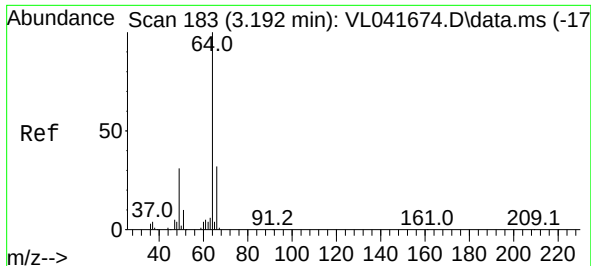


#6  
Bromomethane  
Concen: 0.511 ppbv  
RT: 3.118 min Scan# 160  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 94 Resp: 19426  
Ion Ratio Lower Upper  
94 100  
96 72.2 73.4 110.2#



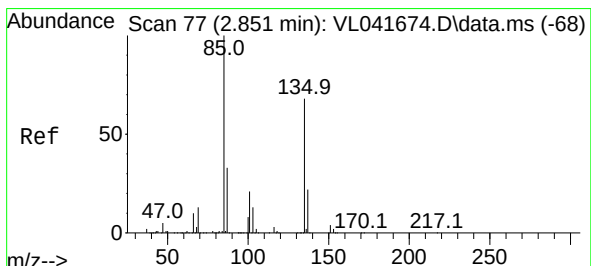
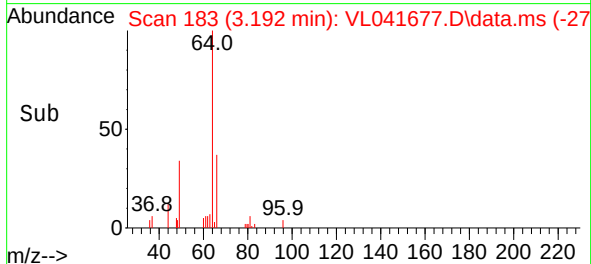
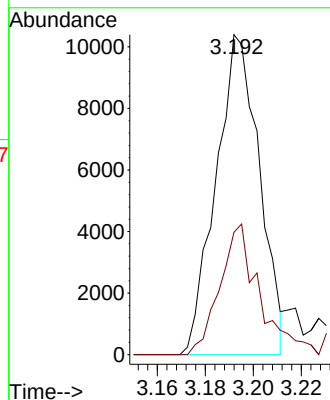
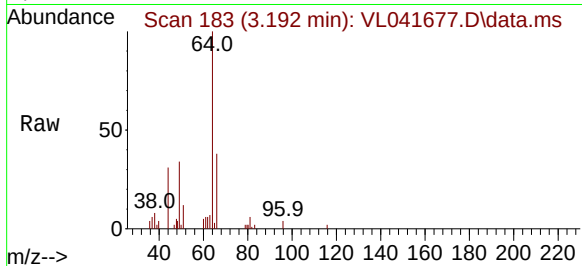




#7  
Chloroethane  
Concen: 0.500 ppbv  
RT: 3.192 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

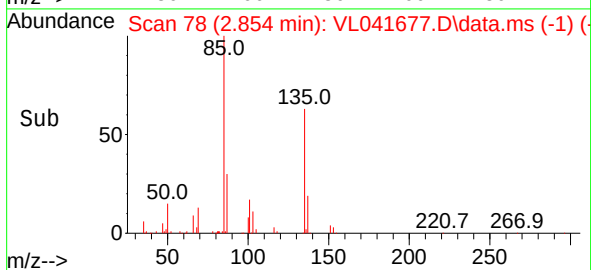
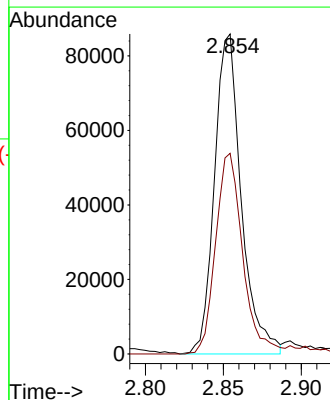
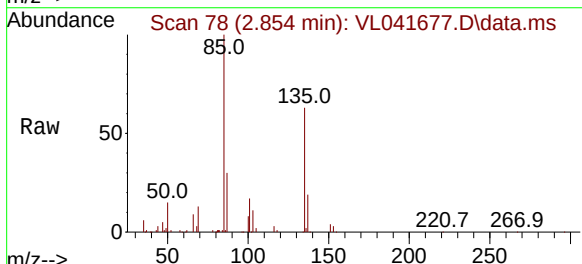
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

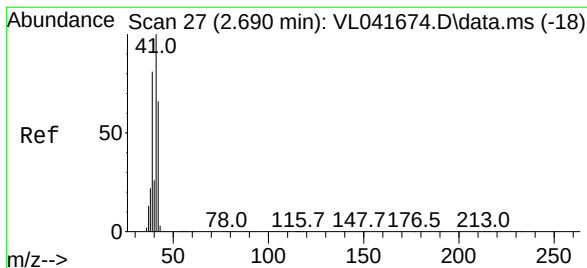
Tgt Ion: 64 Resp: 13079  
Ion Ratio Lower Upper  
64 100  
66 38.3 25.9 38.9



#8  
Dichlorotetrafluoroethane  
Concen: 0.552 ppbv  
RT: 2.854 min Scan# 78  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 85 Resp: 102861  
Ion Ratio Lower Upper  
85 100  
135 67.0 55.5 83.3





#9

Propene

Concen: 0.498 ppbv

RT: 2.690 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

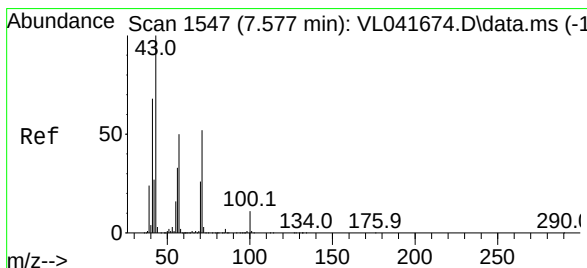
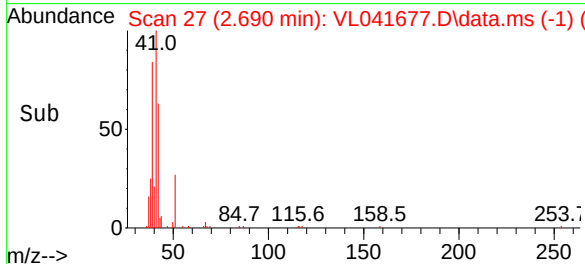
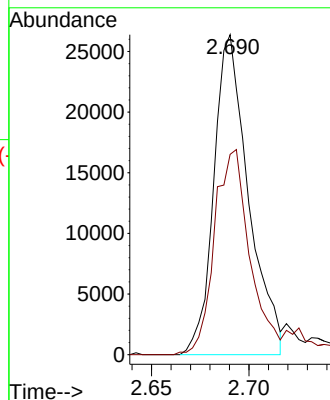
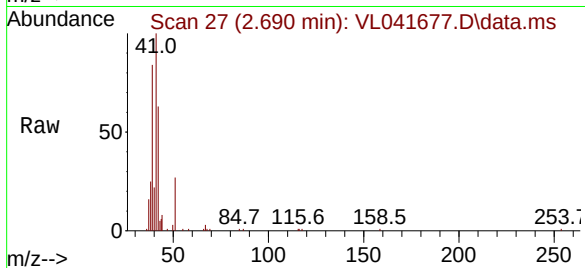
VSTDIC0.5

Tgt Ion: 41 Resp: 32642

Ion Ratio Lower Upper

41 100

42 72.3 55.0 82.4



#10

Heptane

Concen: 0.429 ppbv

RT: 7.578 min Scan# 1547

Delta R.T. 0.000 min

Lab File: VL041677.D

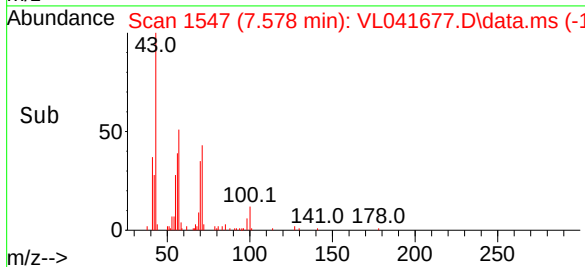
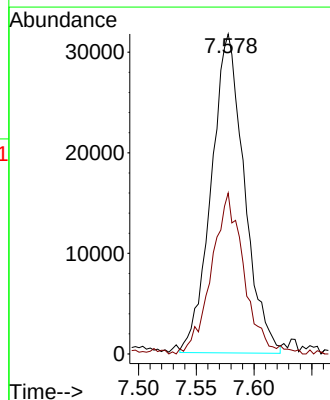
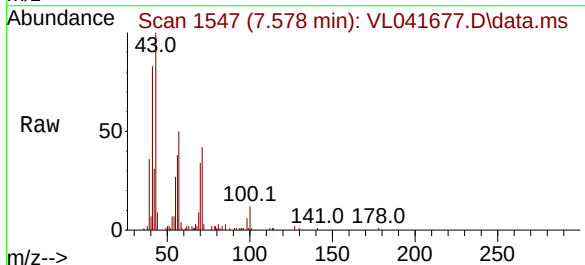
Acq: 7 Nov 2024 12:13

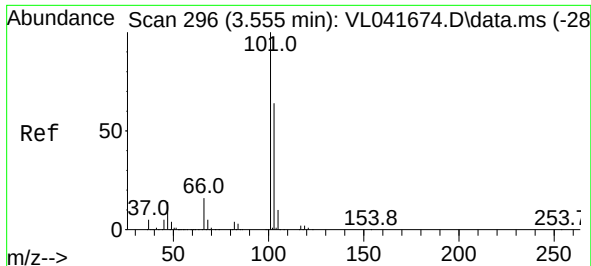
Tgt Ion: 43 Resp: 63040

Ion Ratio Lower Upper

43 100

57 50.4 40.0 60.0





#11

Trichlorofluoromethane

Concen: 0.511 ppbv

RT: 3.558 min Scan# 296

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

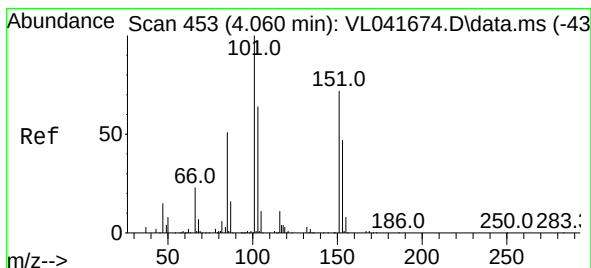
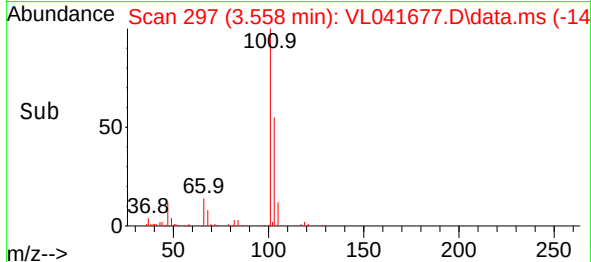
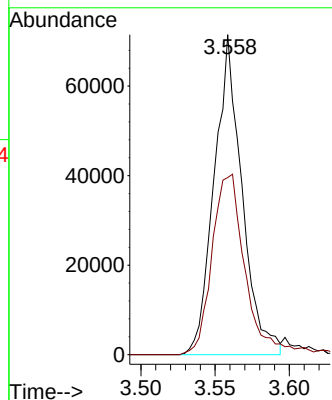
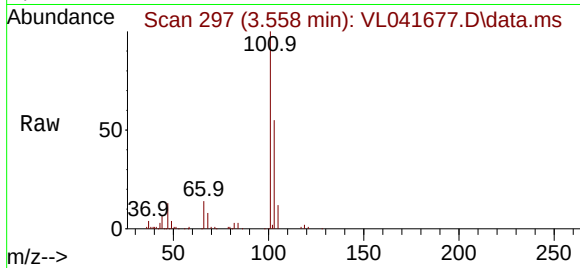
VSTDIC0.5

Tgt Ion:101 Resp: 92855

Ion Ratio Lower Upper

101 100

103 55.4 51.0 76.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.509 ppbv

RT: 4.063 min Scan# 454

Delta R.T. 0.003 min

Lab File: VL041677.D

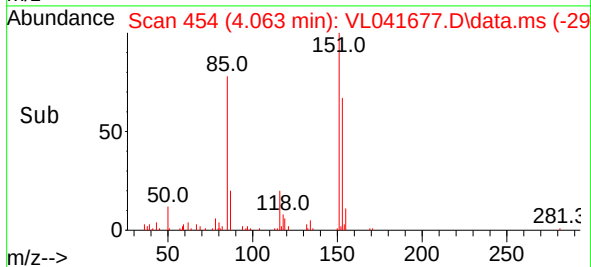
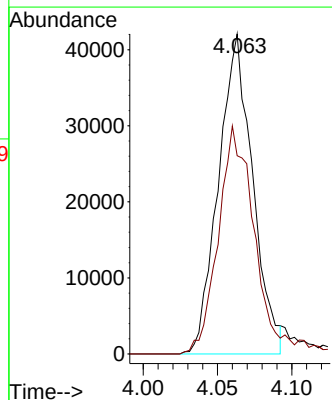
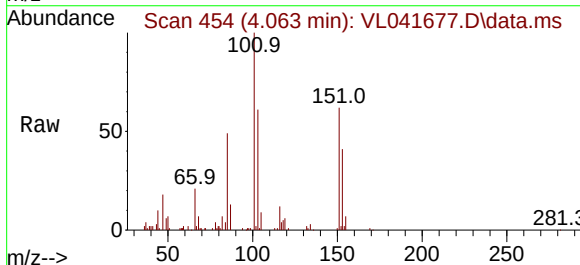
Acq: 7 Nov 2024 12:13

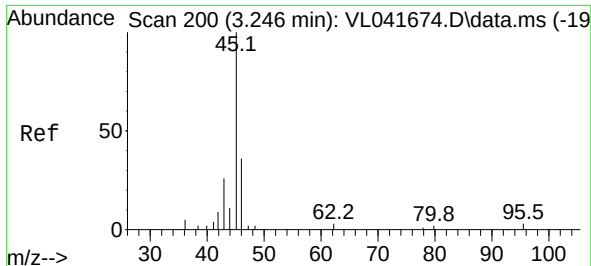
Tgt Ion:101 Resp: 67243

Ion Ratio Lower Upper

101 100

151 77.5 59.1 88.7





#13

Ethanol

Concen: 0.279 ppbv

RT: 3.256 min Scan# 20

Delta R.T. 0.010 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

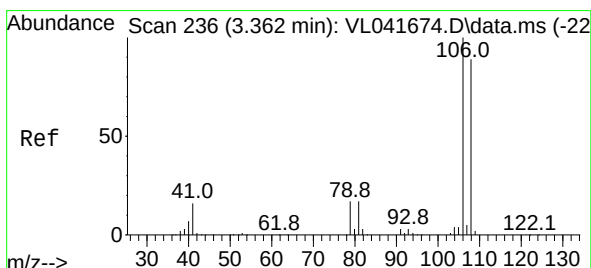
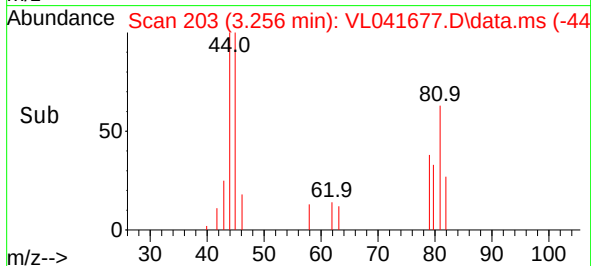
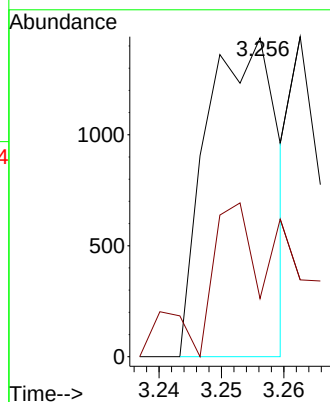
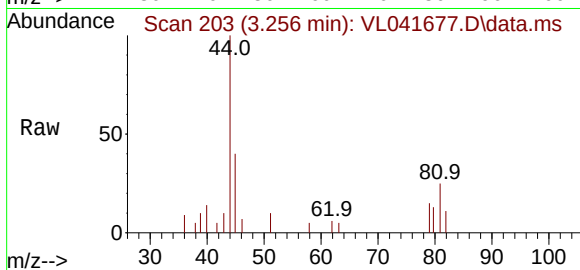
VSTDIC0.5

Tgt Ion: 45 Resp: 1137

Ion Ratio Lower Upper

45 100

46 93.1 13.8 55.2#



#14

Bromoethene

Concen: 0.528 ppbv

RT: 3.362 min Scan# 236

Delta R.T. 0.000 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

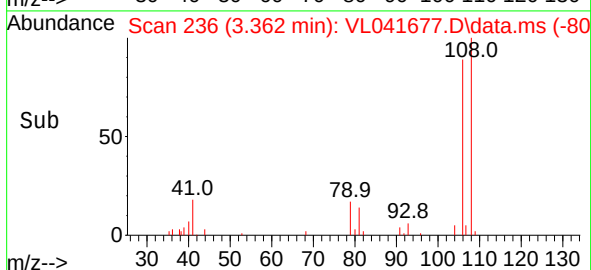
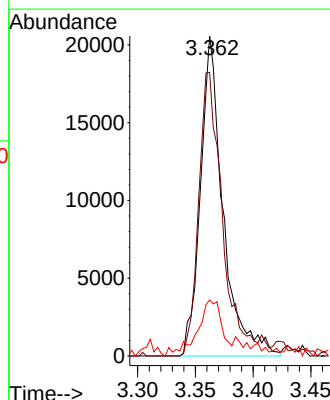
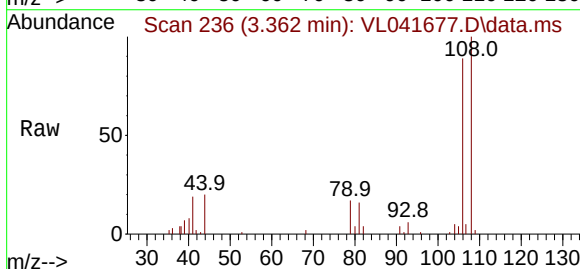
Tgt Ion:108 Resp: 28054

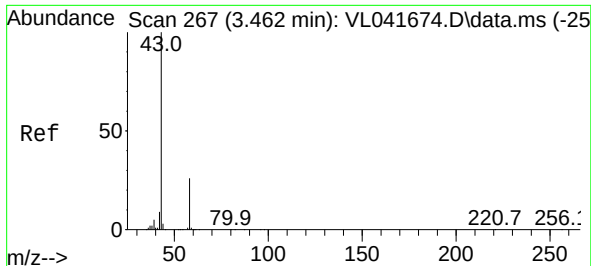
Ion Ratio Lower Upper

108 100

106 98.7 88.6 133.0

79 24.9 15.6 23.4#





#15

Acetone

Concen: 0.488 ppbv

RT: 3.481 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

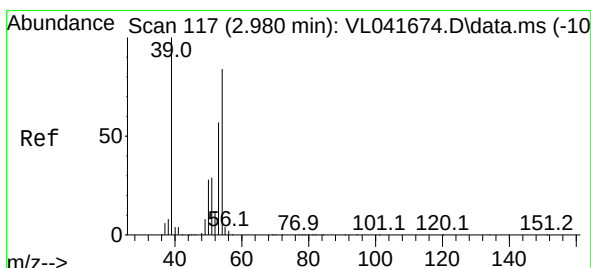
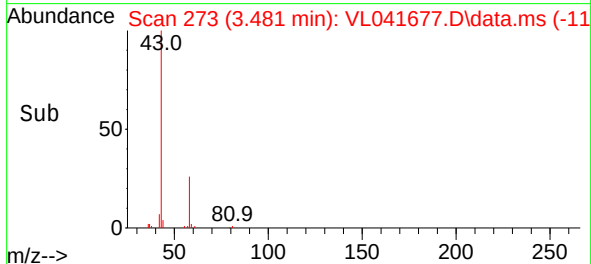
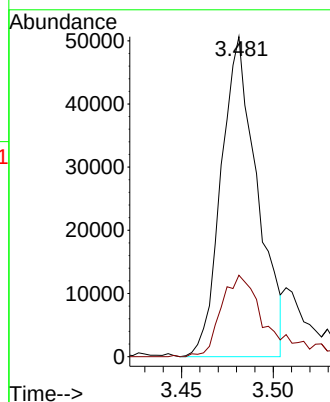
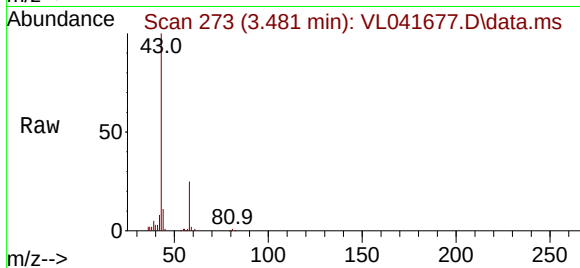
VSTDIC0.5

Tgt Ion: 43 Resp: 69299

Ion Ratio Lower Upper

43 100

58 34.4 21.4 32.0#



#16

1,3-Butadiene

Concen: 0.474 ppbv

RT: 2.983 min Scan# 118

Delta R.T. 0.003 min

Lab File: VL041677.D

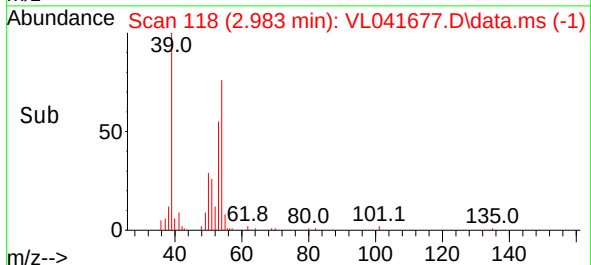
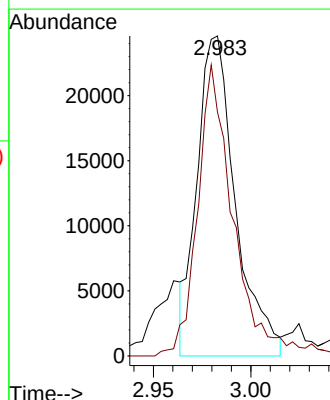
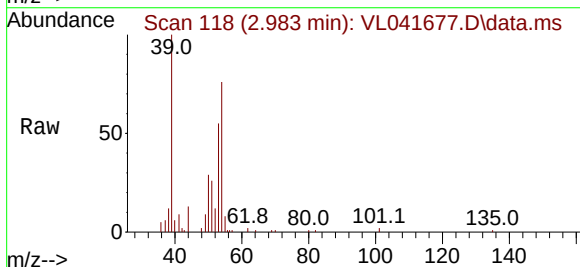
Acq: 7 Nov 2024 12:13

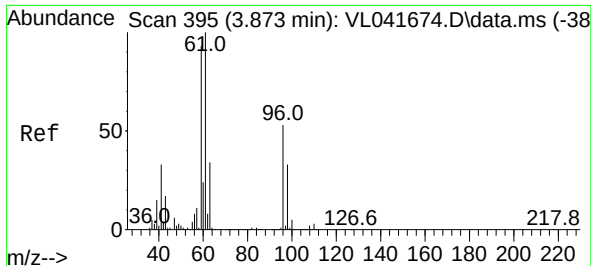
Tgt Ion: 39 Resp: 33737

Ion Ratio Lower Upper

39 100

54 86.9 61.3 91.9





#17

tert-Butyl alcohol

Concen: 0.490 ppbv

RT: 3.890 min Scan# 40

Delta R.T. 0.016 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

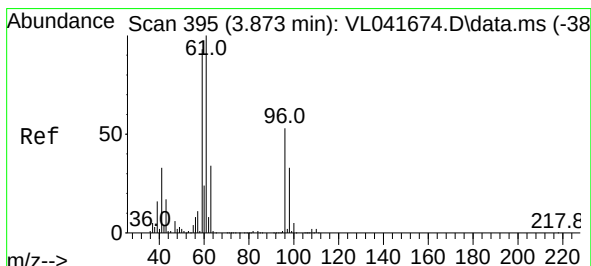
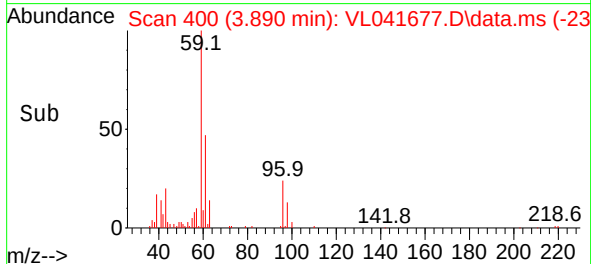
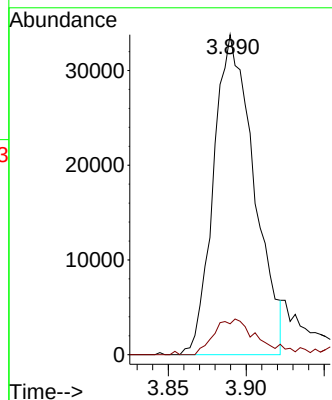
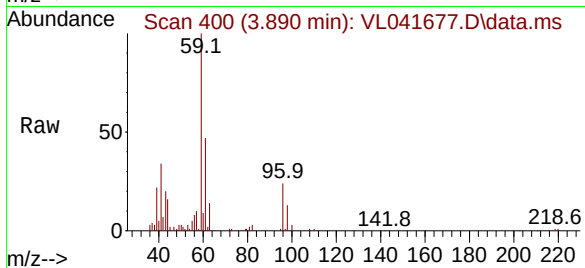
VSTDIC0.5

Tgt Ion: 59 Resp: 61100

Ion Ratio Lower Upper

59 100

57 13.4 8.5 12.7#



#18

1,1-Dichloroethene

Concen: 0.531 ppbv

RT: 3.877 min Scan# 396

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

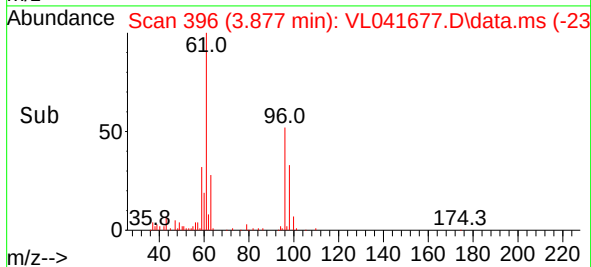
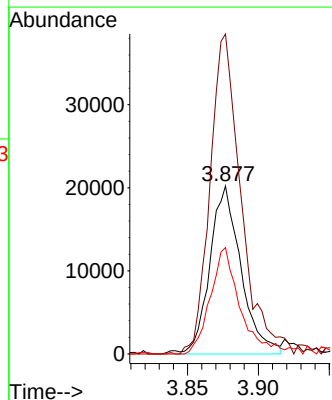
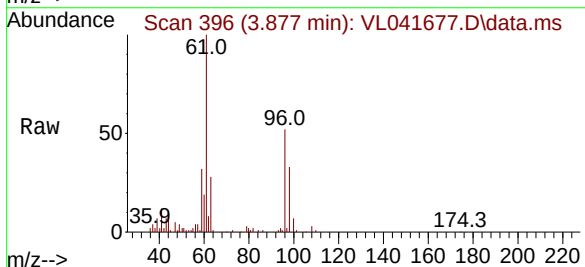
Tgt Ion: 96 Resp: 30772

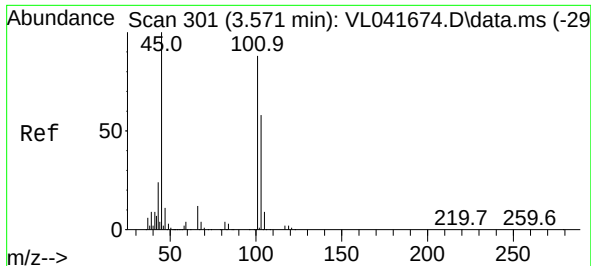
Ion Ratio Lower Upper

96 100

61 192.9 150.7 226.1

98 64.1 49.4 74.2

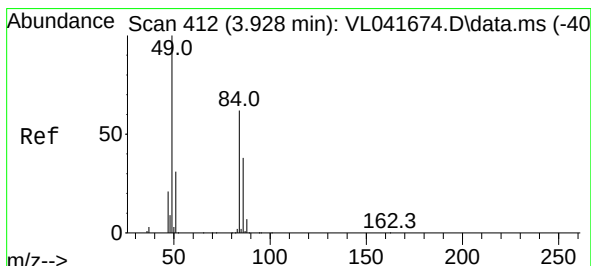
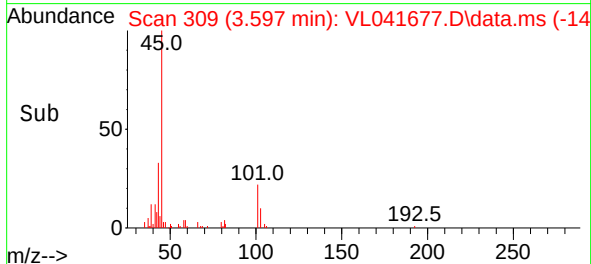
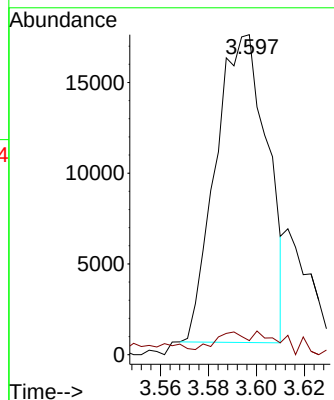
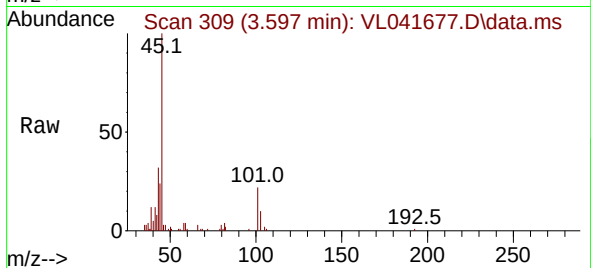




#19  
Isopropyl Alcohol  
Concen: 0.369 ppbv  
RT: 3.597 min Scan# 309  
Delta R.T. 0.026 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

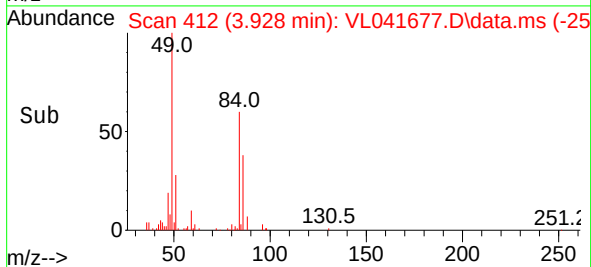
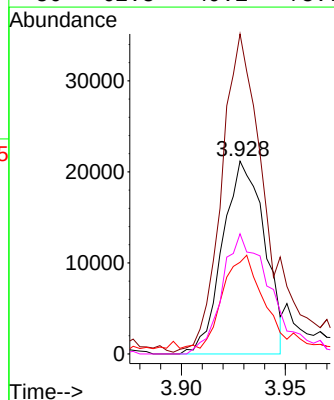
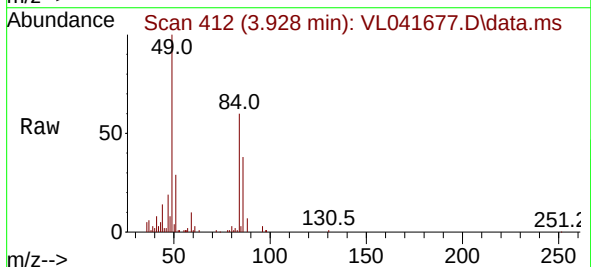
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

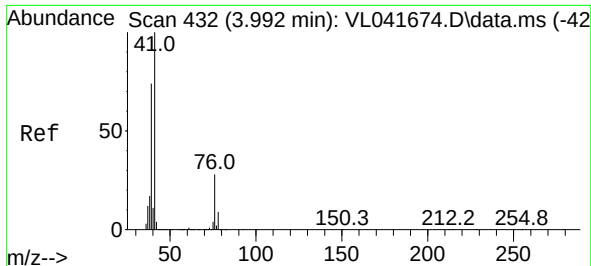
Tgt Ion: 45 Resp: 25362  
Ion Ratio Lower Upper  
45 100  
58 11.5 2.5 3.7#



#20  
Methylene Chloride  
Concen: 0.568 ppbv  
RT: 3.928 min Scan# 412  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 84 Resp: 29673  
Ion Ratio Lower Upper  
84 100  
49 163.5 129.7 194.5  
51 42.1 39.8 59.6  
86 62.3 49.1 73.7





#21

Allyl Chloride

Concen: 0.453 ppbv

RT: 3.993 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.5

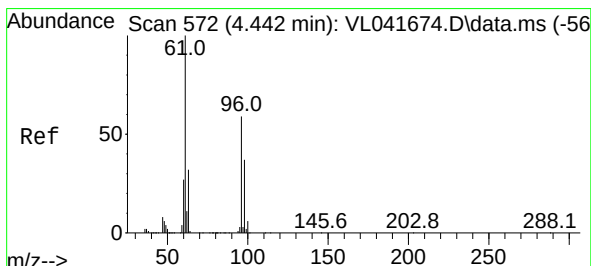
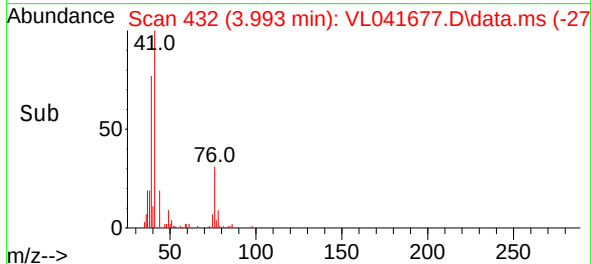
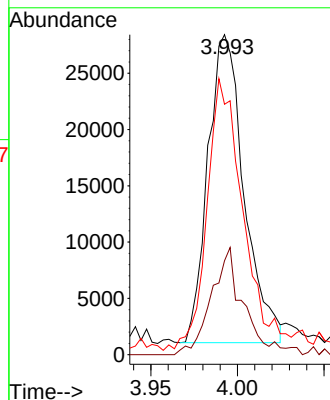
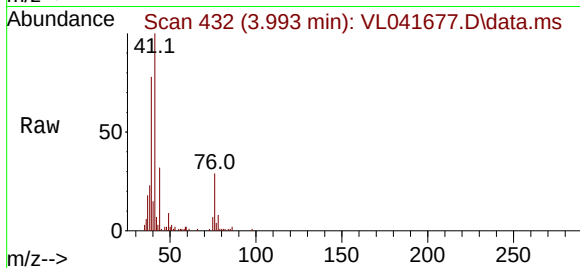
Tgt Ion: 41 Resp: 39722

Ion Ratio Lower Upper

41 100

76 32.6 23.5 35.3

39 93.7 63.0 94.4



#22

trans-1,2-Dichloroethene

Concen: 0.474 ppbv

RT: 4.439 min Scan# 571

Delta R.T. -0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

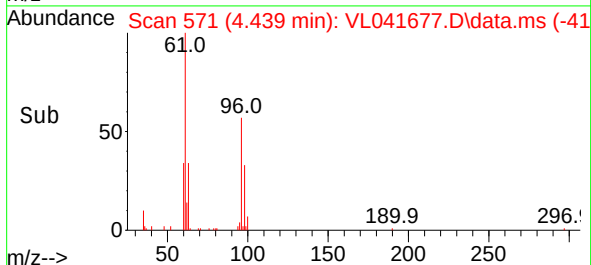
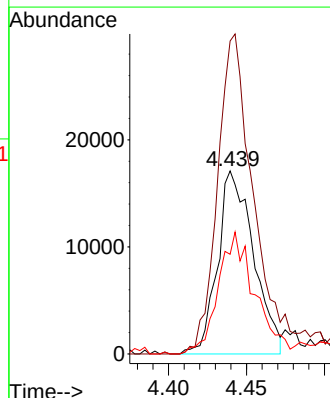
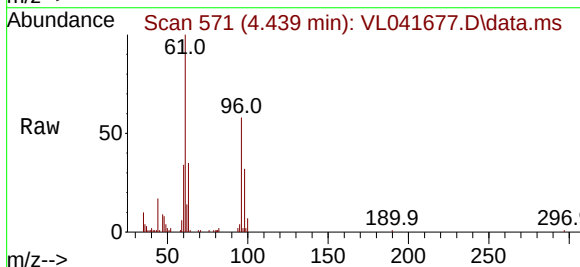
Tgt Ion: 96 Resp: 27393

Ion Ratio Lower Upper

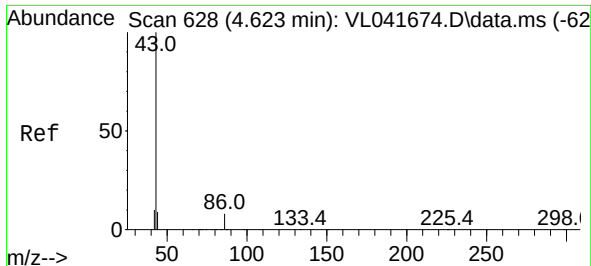
96 100

61 171.0 134.5 201.7

98 54.4 49.6 74.4



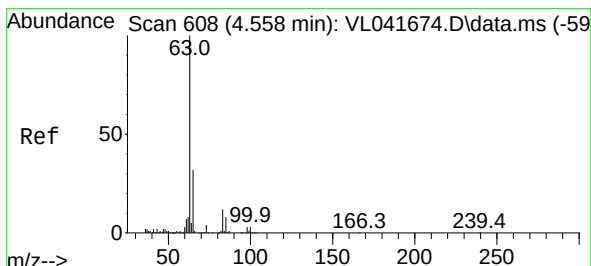
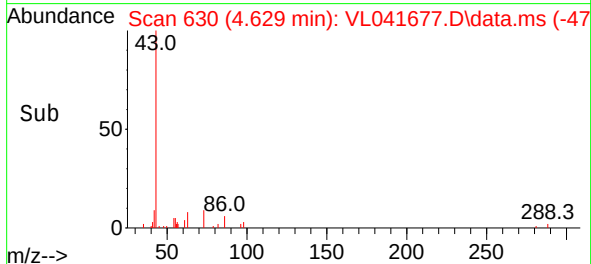
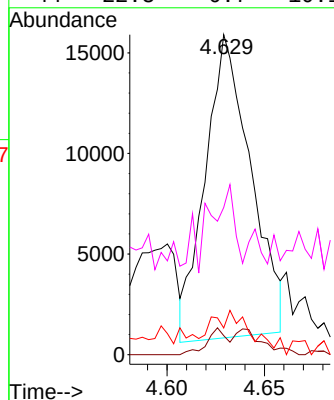
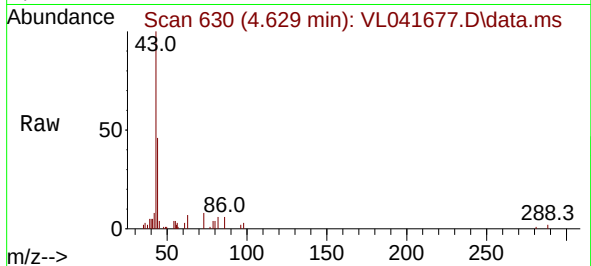




#23  
Vinyl Acetate  
Concen: 0.367 ppbv  
RT: 4.629 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

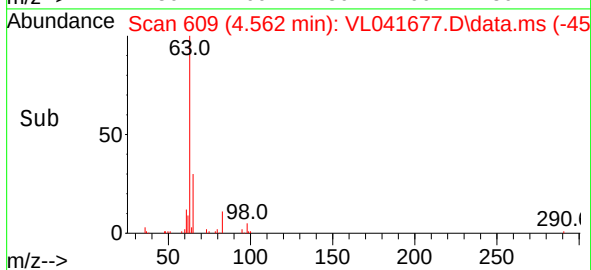
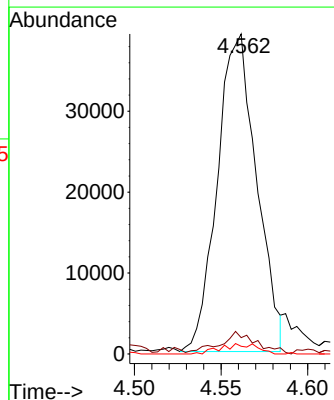
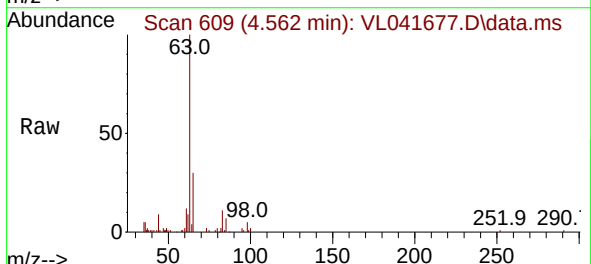
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

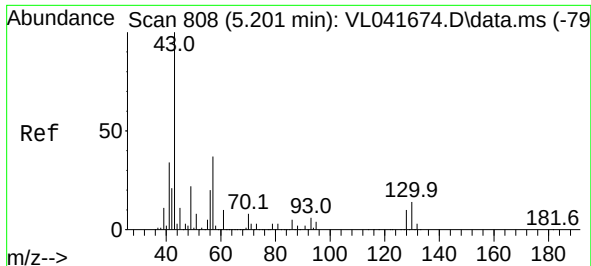
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 24529 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 7.2   | 5.3   | 7.9   |
| 42       | 3.7   | 8.5   | 12.7# |
| 44       | 22.3  | 6.7   | 10.1# |



#24  
1,1-Dichloroethane  
Concen: 0.482 ppbv  
RT: 4.562 min Scan# 609  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 61980 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 3.8   | 1.8   | 5.4   |
| 100      | 2.4   | 1.4   | 4.2   |





#25

Ethyl Acetate

Concen: 0.479 ppbv

RT: 5.211 min Scan# 811

Delta R.T. 0.010 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 140929

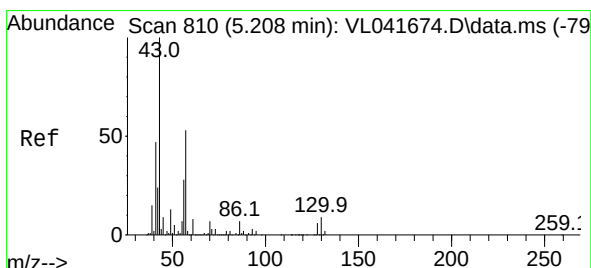
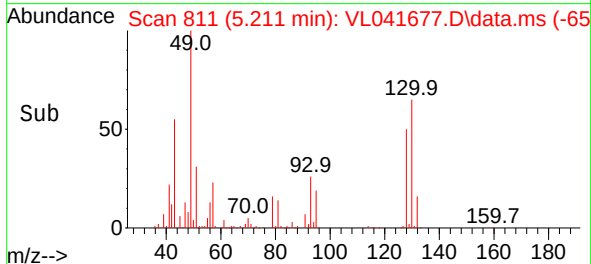
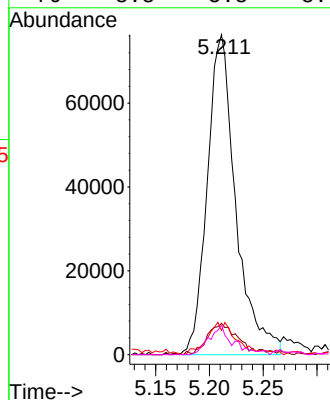
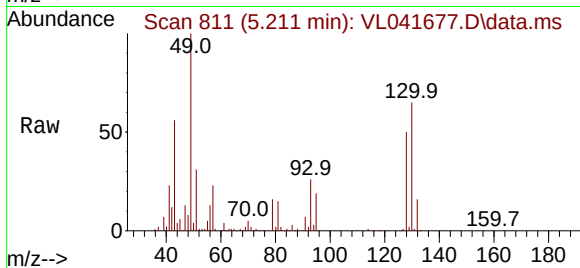
Ion Ratio Lower Upper

43 100

45 11.0 8.6 13.0

61 11.3 8.4 12.6

70 8.8 5.8 8.6#



#26

Hexane

Concen: 0.450 ppbv

RT: 5.211 min Scan# 811

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Tgt Ion: 57 Resp: 50843

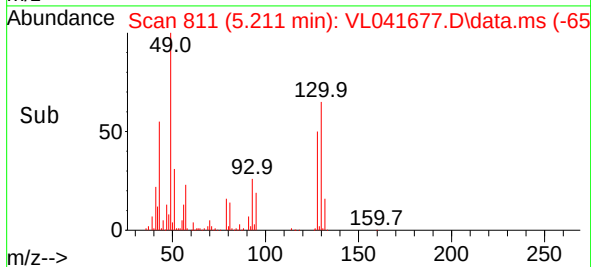
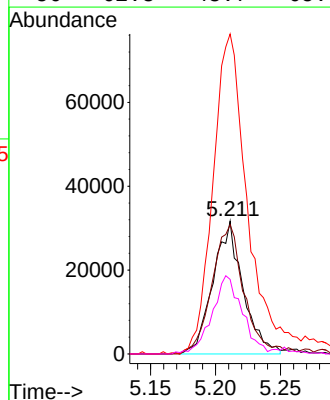
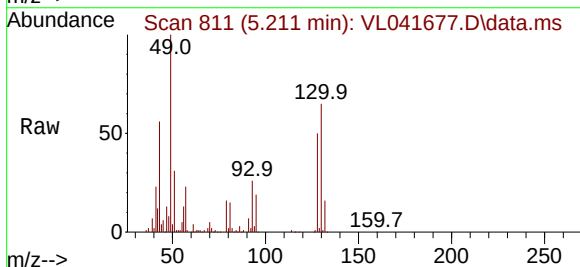
Ion Ratio Lower Upper

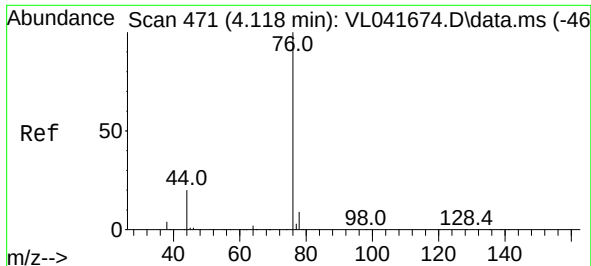
57 100

41 107.1 76.1 114.1

43 299.6 207.0 310.6

56 62.3 43.7 65.5

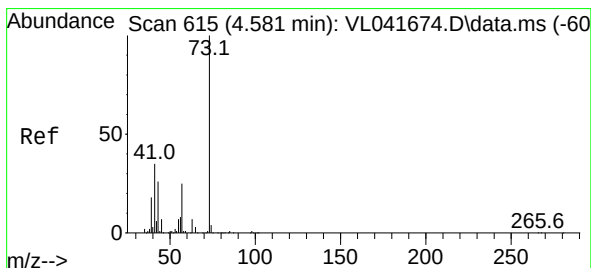
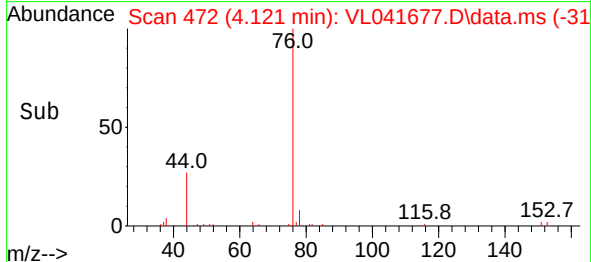
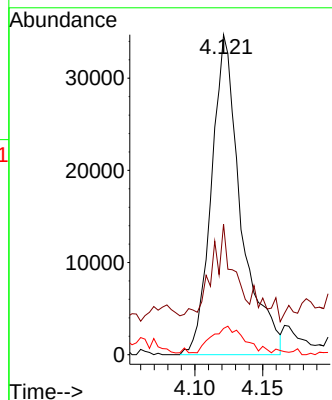
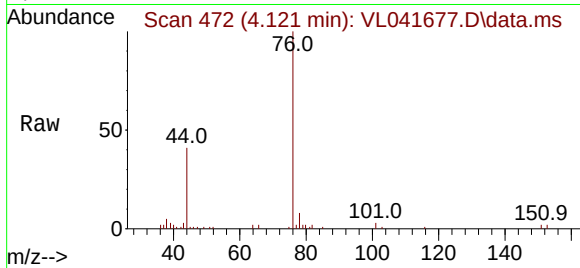




#27  
Carbon Disulfide  
Concen: 0.416 ppbv  
RT: 4.121 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

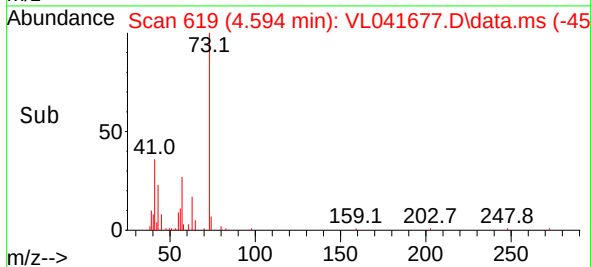
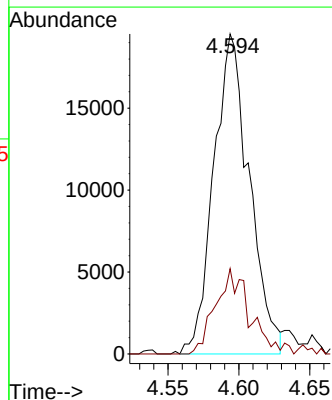
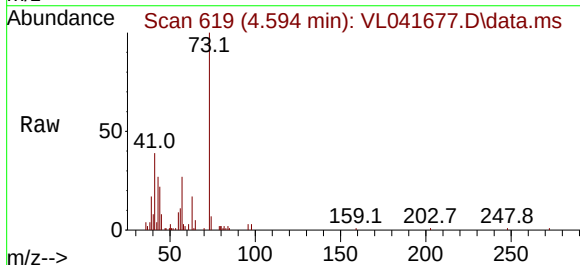
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

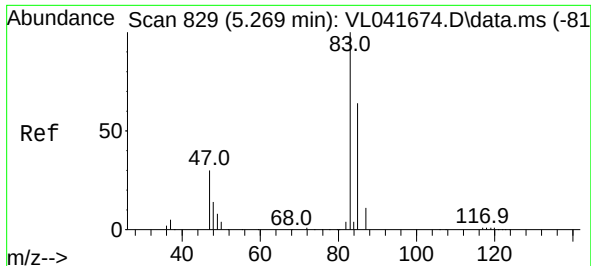
Tgt Ion: 76 Resp: 52791  
Ion Ratio Lower Upper  
76 100  
44 27.8 15.8 23.8#  
78 11.9 7.5 11.3#



#28  
Methyl tert-Butyl Ether  
Concen: 0.469 ppbv  
RT: 4.594 min Scan# 619  
Delta R.T. 0.013 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 73 Resp: 34128  
Ion Ratio Lower Upper  
73 100  
57 26.6 19.6 29.4





#29

Chloroform

Concen: 0.530 ppbv

RT: 5.266 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

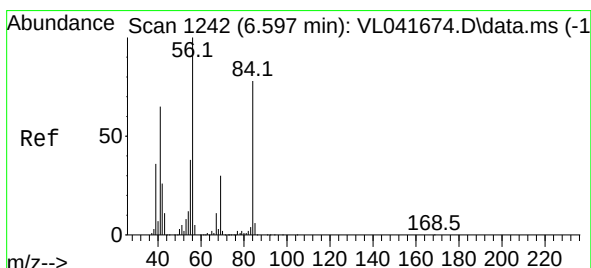
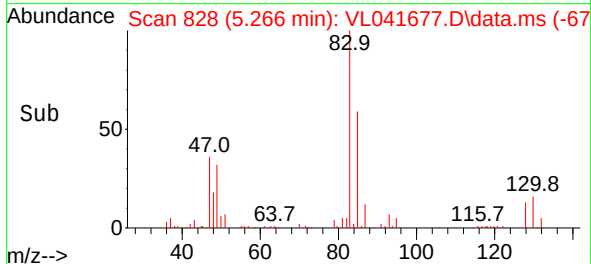
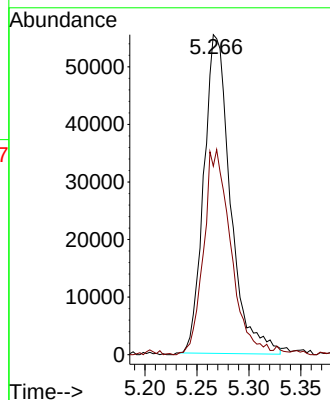
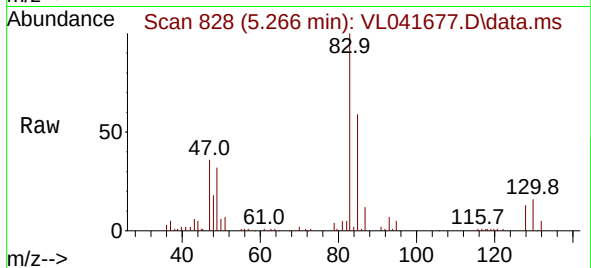
VSTDICC0.5

Tgt Ion: 83 Resp: 98787

Ion Ratio Lower Upper

83 100

85 58.5 51.1 76.7



#30

Cyclohexane

Concen: 0.365 ppbv

RT: 6.600 min Scan# 1243

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

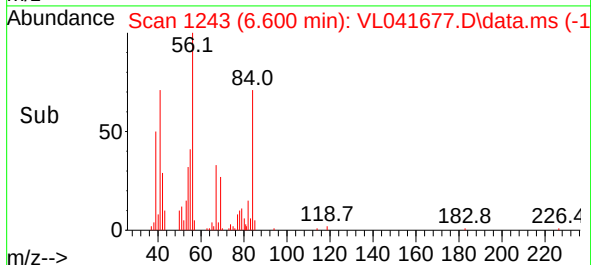
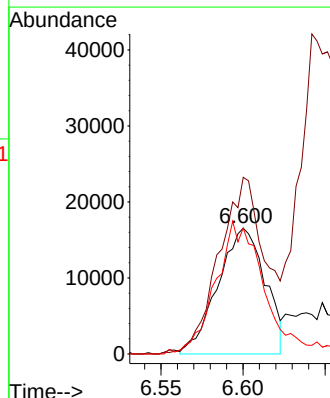
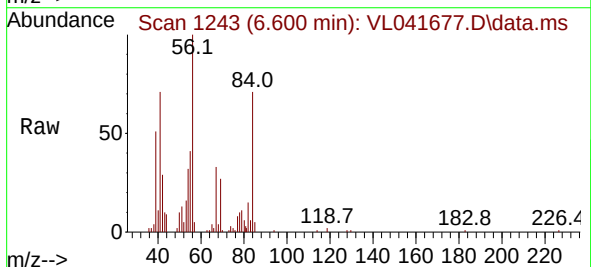
Tgt Ion: 84 Resp: 33080

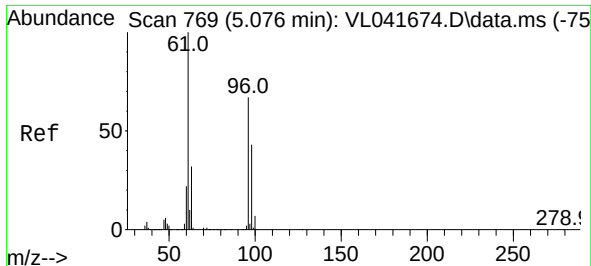
Ion Ratio Lower Upper

84 100

56 130.7 110.8 166.2

41 112.9 70.0 105.0#





#31

cis-1,2-Dichloroethene

Concen: 0.464 ppbv

RT: 5.076 min Scan# 769

Delta R.T. 0.000 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

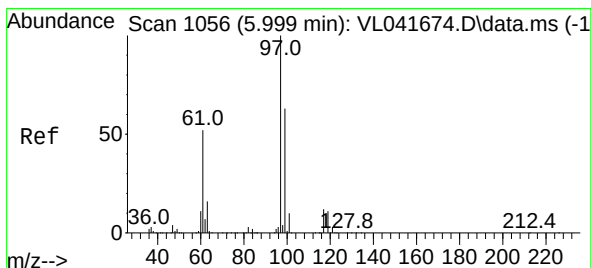
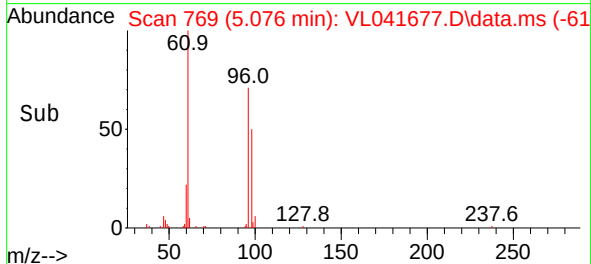
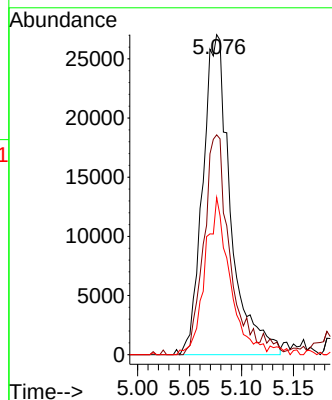
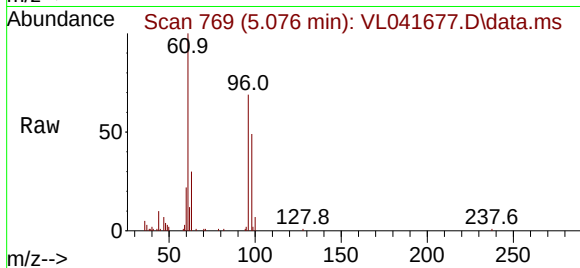
Tgt Ion: 61 Resp: 50385

Ion Ratio Lower Upper

61 100

96 68.7 53.4 80.2

98 50.1 34.0 51.0



#32

1,1,1-Trichloroethane

Concen: 0.496 ppbv

RT: 5.999 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

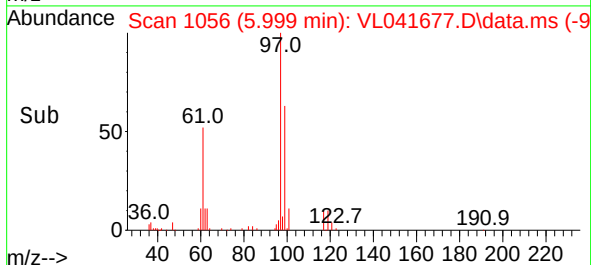
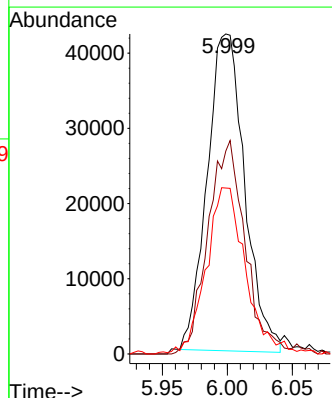
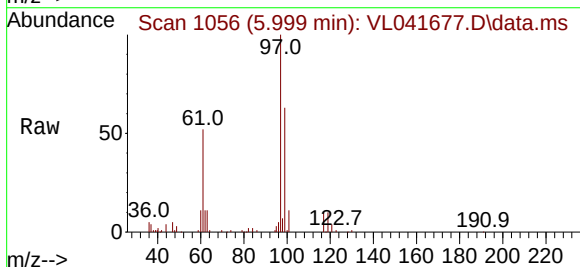
Tgt Ion: 97 Resp: 84699

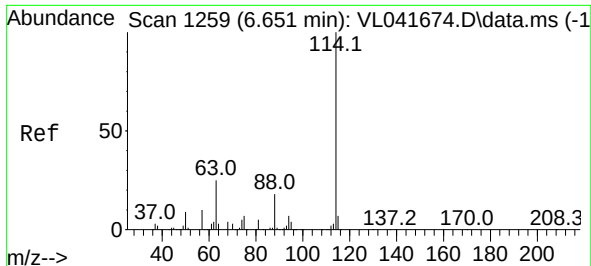
Ion Ratio Lower Upper

97 100

99 67.6 51.4 77.2

61 55.5 41.7 62.5

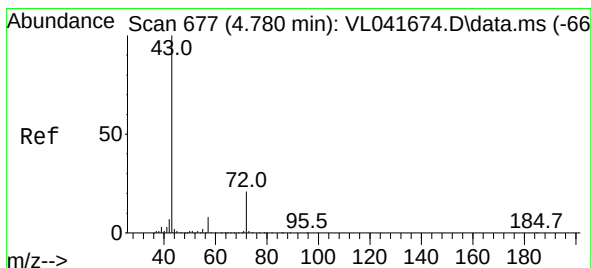
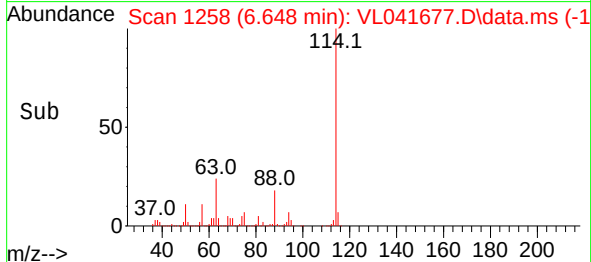
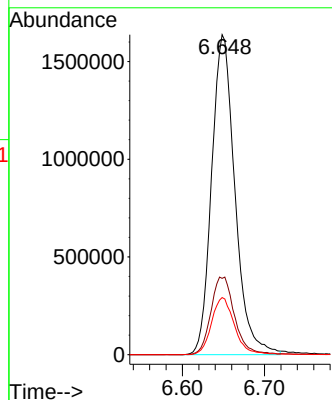
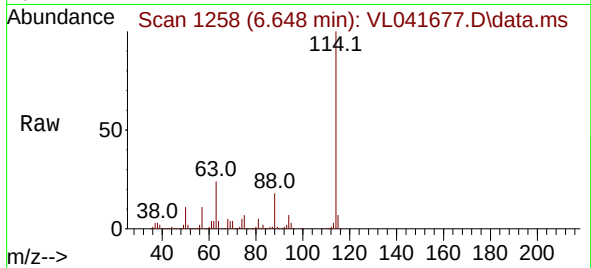




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.648 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

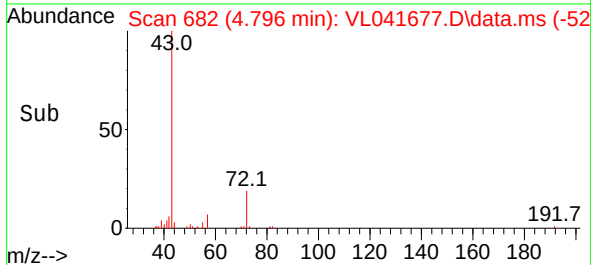
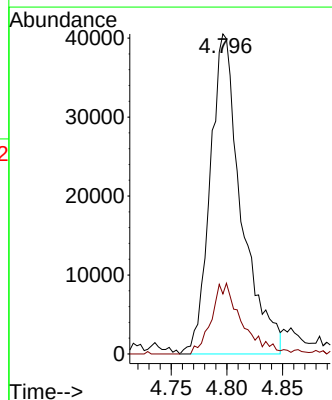
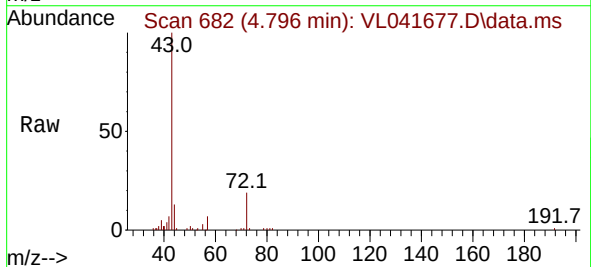
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

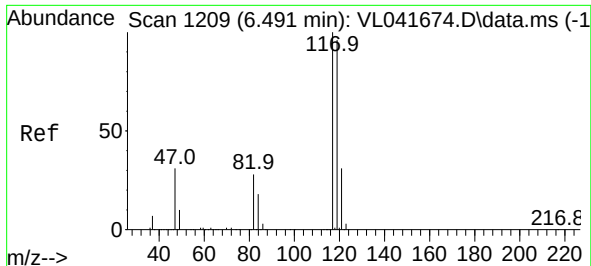
Tgt Ion:114 Resp: 3232256  
Ion Ratio Lower Upper  
114 100  
63 25.2 20.3 30.5  
88 17.8 14.2 21.4



#34  
2-Butanone  
Concen: 0.490 ppbv  
RT: 4.796 min Scan# 682  
Delta R.T. 0.016 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 43 Resp: 78940  
Ion Ratio Lower Upper  
43 100  
72 22.1 17.4 26.0





#35

Carbon Tetrachloride

Concen: 0.291 ppbv

RT: 6.488 min Scan# 1169

Delta R.T. -0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.5

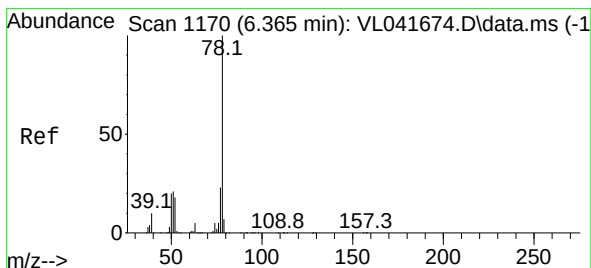
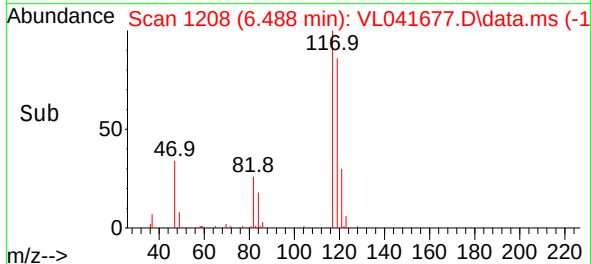
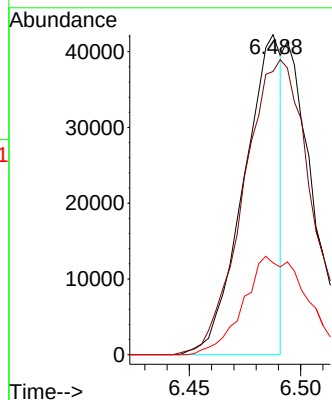
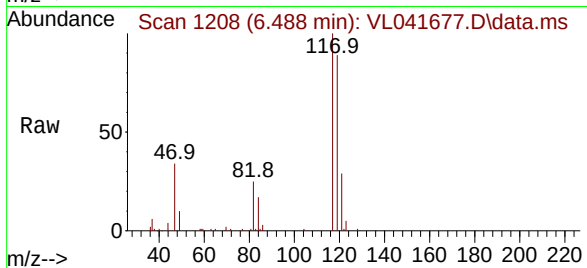
Tgt Ion:117 Resp: 49670

Ion Ratio Lower Upper

117 100

119 87.9 77.2 115.8

121 28.7 25.0 37.4



#36

Benzene

Concen: 0.447 ppbv

RT: 6.362 min Scan# 1169

Delta R.T. -0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

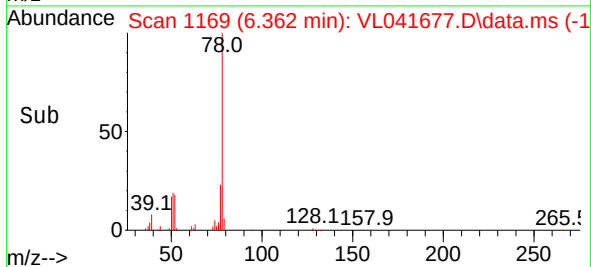
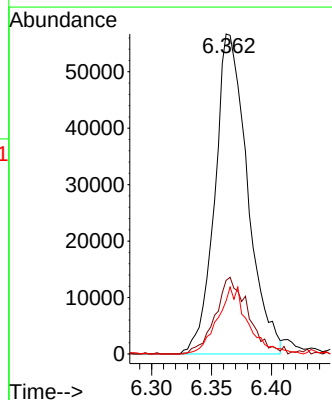
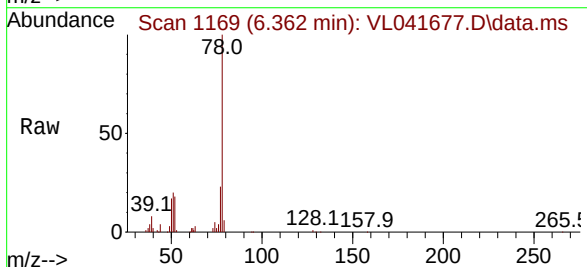
Tgt Ion: 78 Resp: 107078

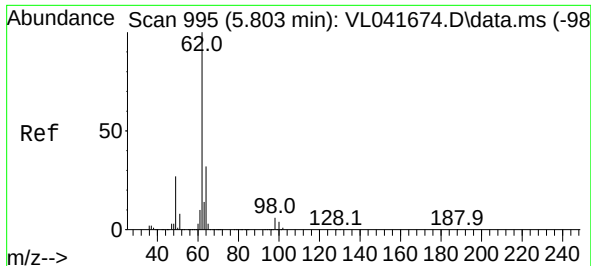
Ion Ratio Lower Upper

78 100

77 23.1 18.5 27.7

50 16.7 15.6 23.4

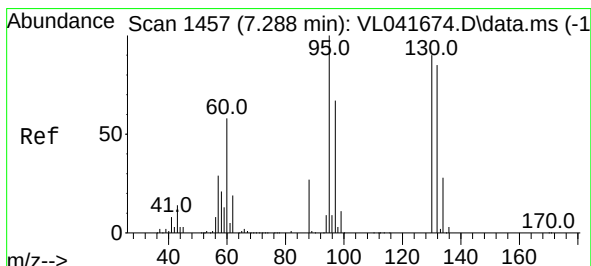
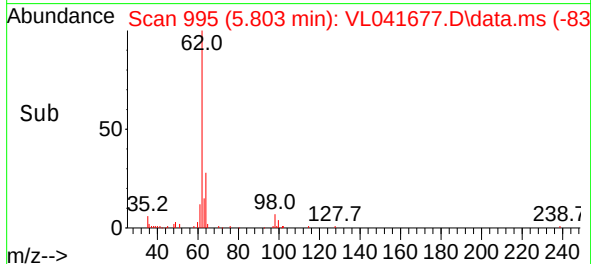
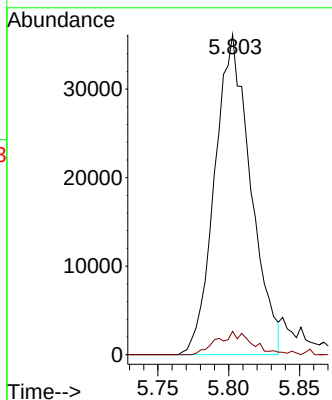
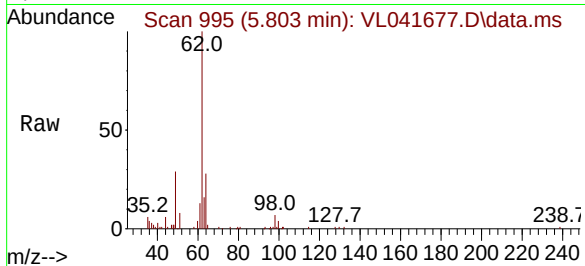




#37  
1,2-Dichloroethane  
Concen: 0.474 ppbv  
RT: 5.803 min Scan# 995  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

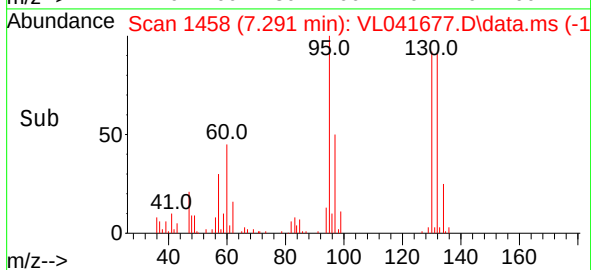
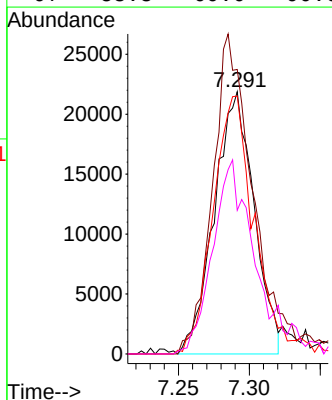
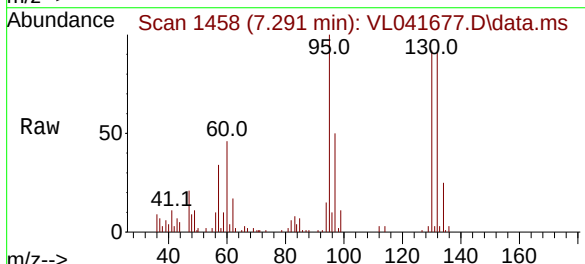
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 62 Resp: 64024  
Ion Ratio Lower Upper  
62 100  
98 7.5 5.2 7.8

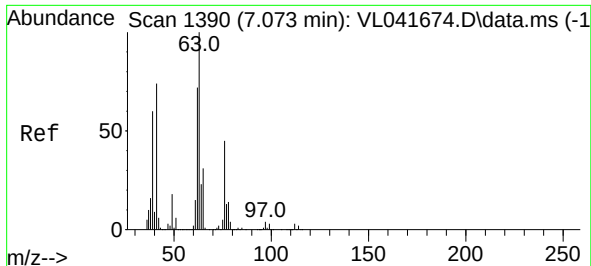


#38  
Trichloroethene  
Concen: 0.461 ppbv  
RT: 7.291 min Scan# 1458  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion:130 Resp: 42598  
Ion Ratio Lower Upper  
130 100  
95 108.5 89.1 133.7  
132 100.1 75.7 113.5  
97 53.8 60.0 90.0#







#39

1,2-Dichloropropane

Concen: 0.475 ppbv

RT: 7.070 min Scan# 1389

Delta R.T. -0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

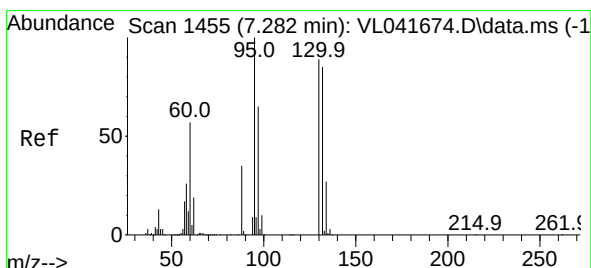
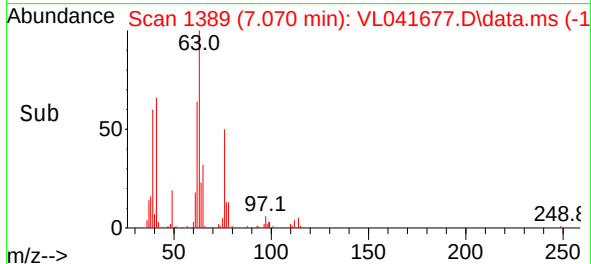
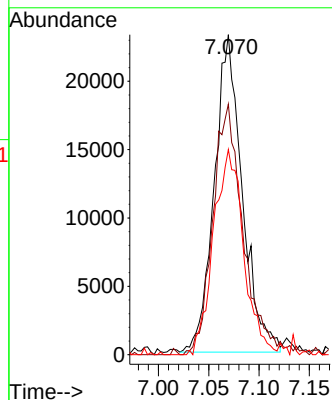
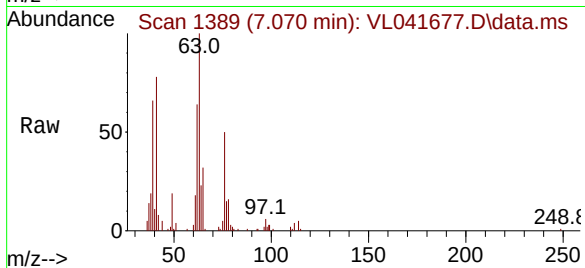
Tgt Ion: 63 Resp: 44946

Ion Ratio Lower Upper

63 100

41 78.9 59.1 88.7

62 64.6 57.7 86.5



#40

1,4-Dioxane

Concen: 0.004 ppbv

RT: 7.291 min Scan# 1458

Delta R.T. 0.010 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Tgt Ion: 88 Resp: 145

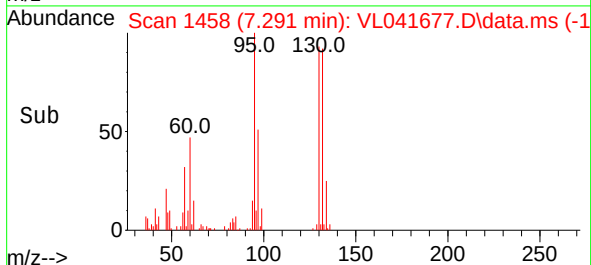
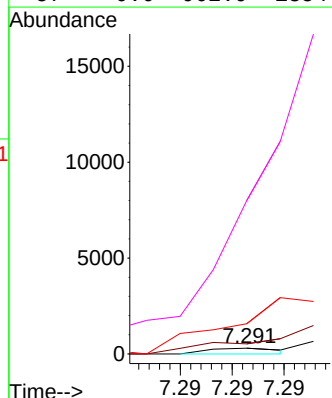
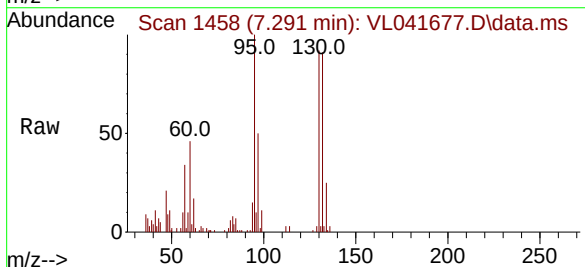
Ion Ratio Lower Upper

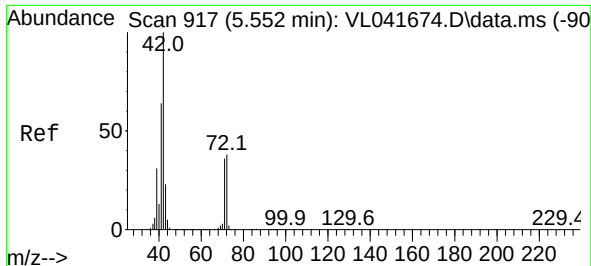
88 100

58 0.0 101.4 152.2#

43 0.0 208.0 312.0#

57 0.0 902.9 1354.3#





#41

Tetrahydrofuran

Concen: 0.198 ppbv

RT: 5.574 min Scan# 917

Delta R.T. 0.023 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC0.5

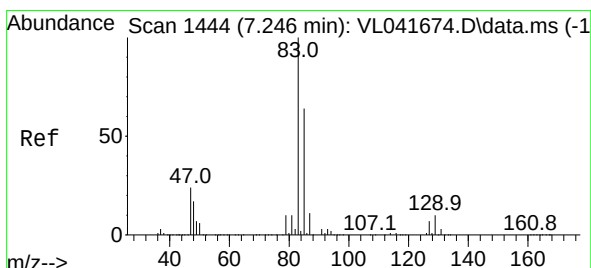
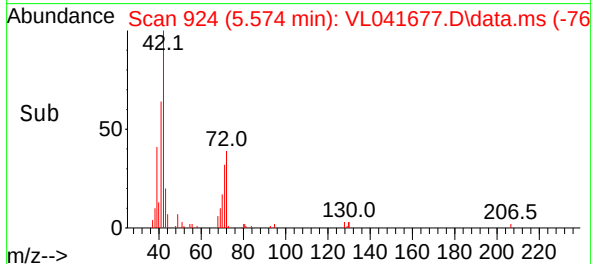
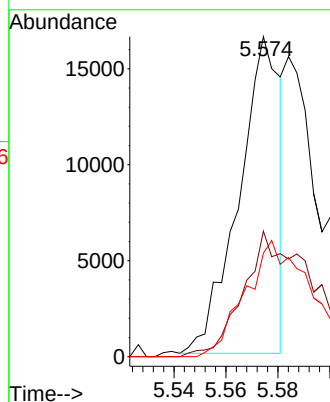
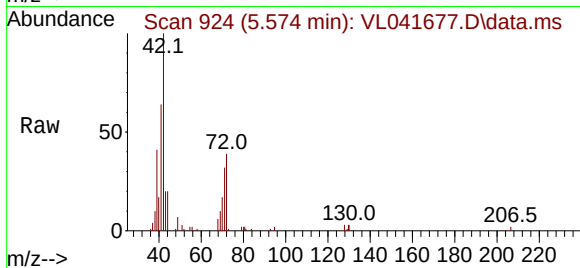
Tgt Ion: 42 Resp: 18151

Ion Ratio Lower Upper

42 100

72 72.7 29.8 44.6#

71 70.0 29.4 44.2#



#42

Bromodichloromethane

Concen: 0.459 ppbv

RT: 7.246 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

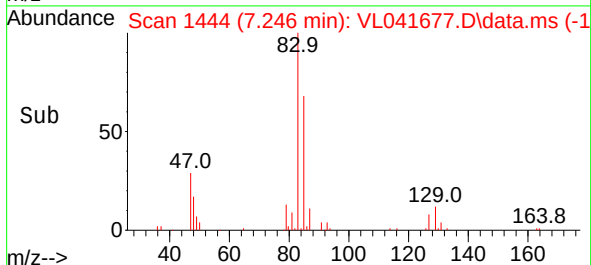
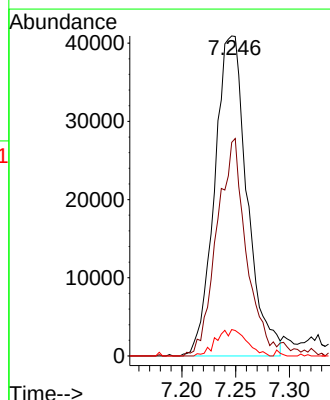
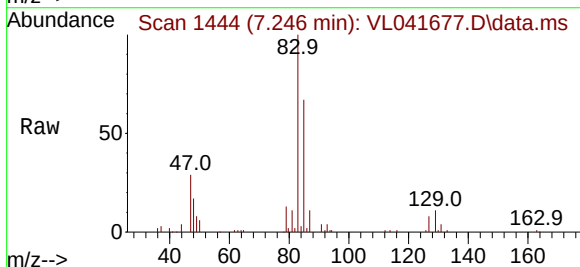
Tgt Ion: 83 Resp: 86164

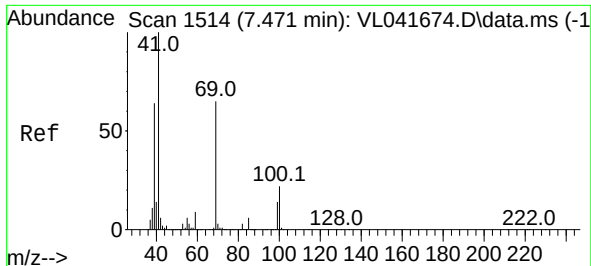
Ion Ratio Lower Upper

83 100

85 66.7 51.2 76.8

127 8.3 6.0 9.0





#43

Methyl Methacrylate

Concen: 0.356 ppbv

RT: 7.475 min Scan# 1515

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC0.5

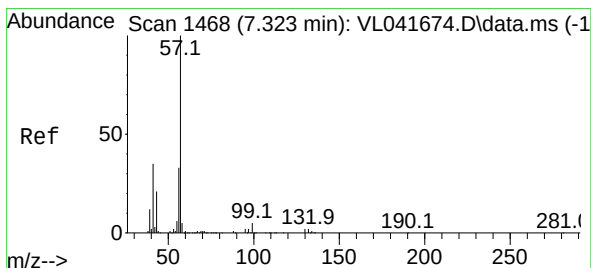
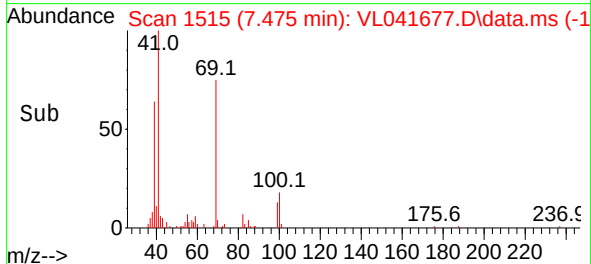
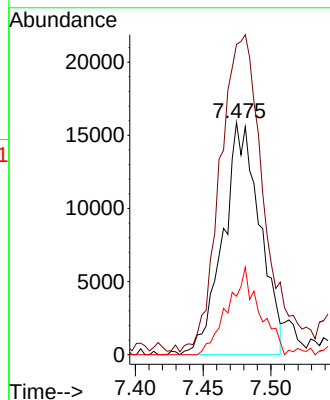
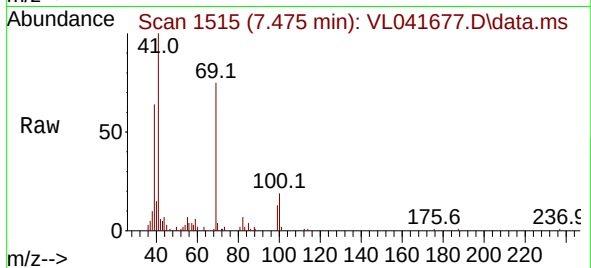
Tgt Ion: 69 Resp: 29969

Ion Ratio Lower Upper

69 100

41 166.5 119.8 179.6

100 33.3 27.3 40.9



#44

2,2,4-Trimethylpentane

Concen: 0.433 ppbv

RT: 7.327 min Scan# 1469

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

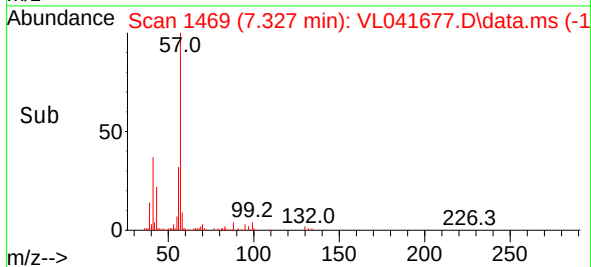
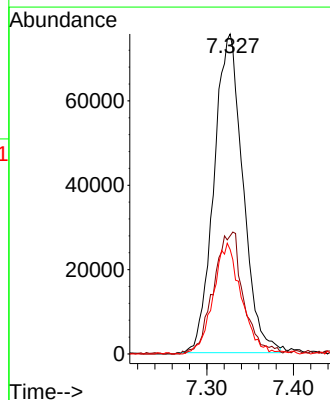
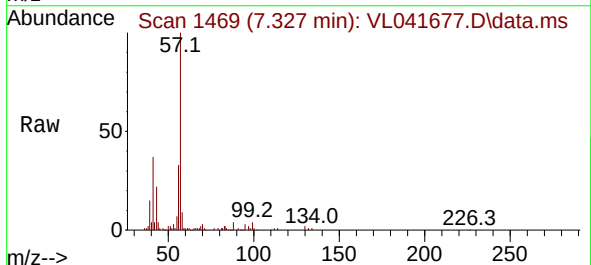
Tgt Ion: 57 Resp: 175510

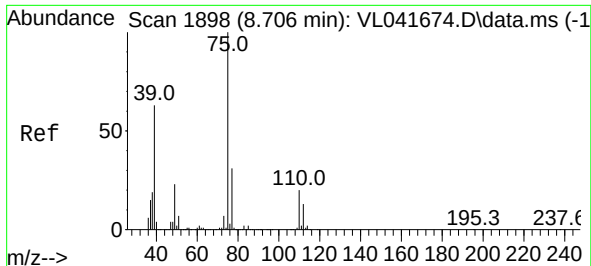
Ion Ratio Lower Upper

57 100

41 39.8 27.0 40.6

56 34.3 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 0.296 ppbv

RT: 8.709 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

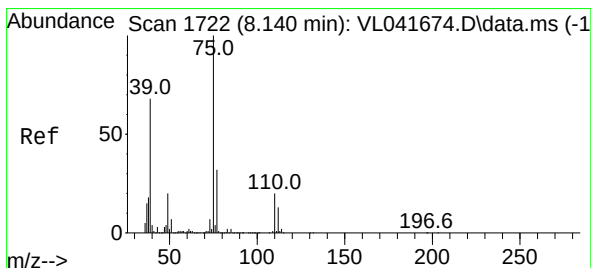
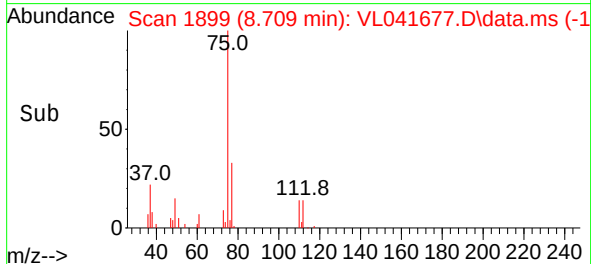
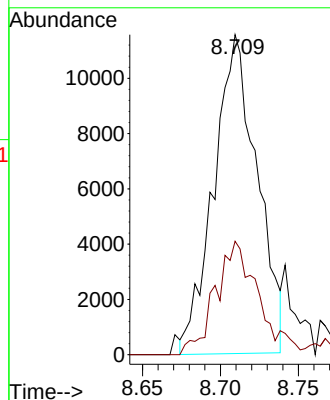
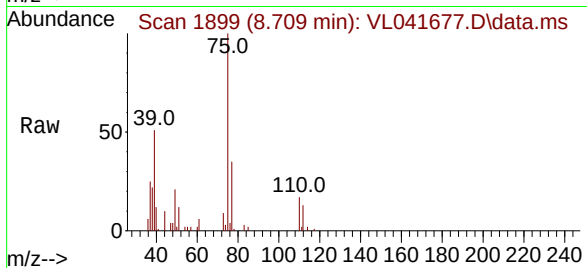
VSTDICC0.5

Tgt Ion: 75 Resp: 22287

Ion Ratio Lower Upper

75 100

77 35.4 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 0.308 ppbv

RT: 8.143 min Scan# 1723

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

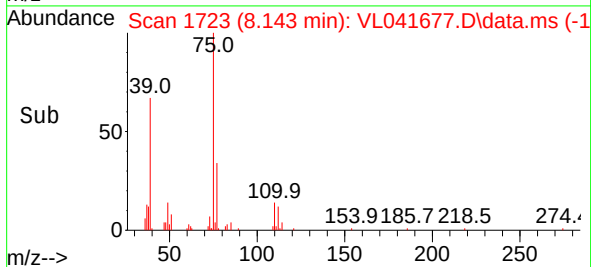
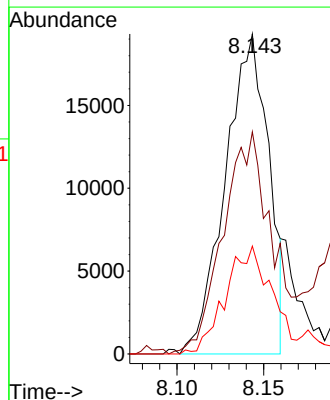
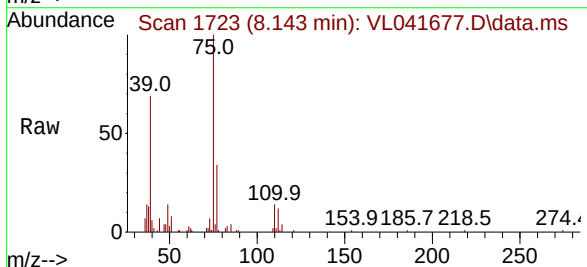
Tgt Ion: 75 Resp: 33612

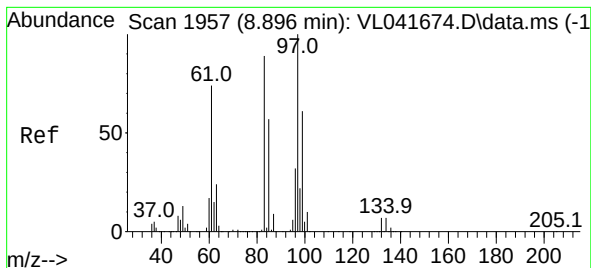
Ion Ratio Lower Upper

75 100

39 68.2 54.1 81.1

77 33.7 25.3 37.9

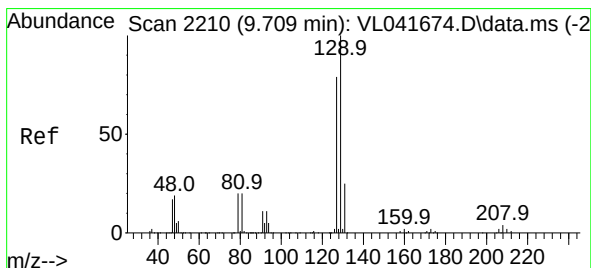
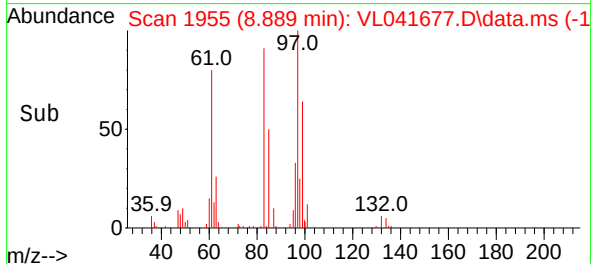
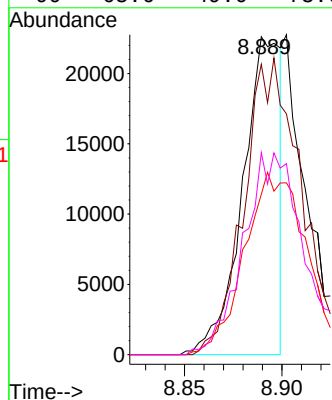
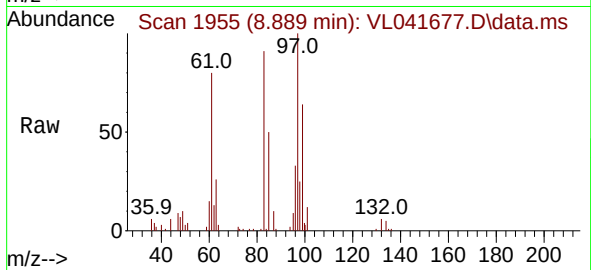




#47  
1,1,2-Trichloroethane  
Concen: 0.299 ppbv  
RT: 8.889 min Scan# 1955  
Delta R.T. -0.006 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

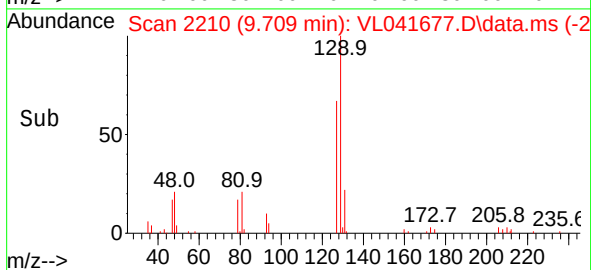
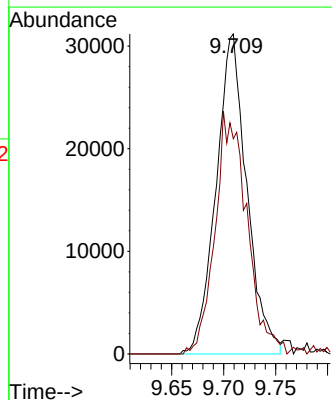
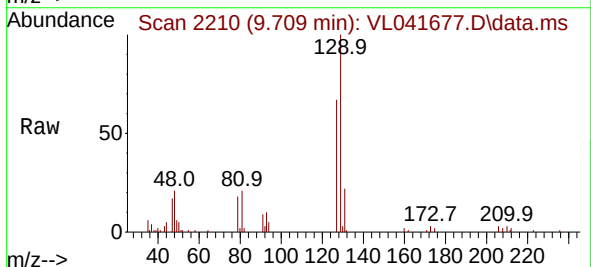
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

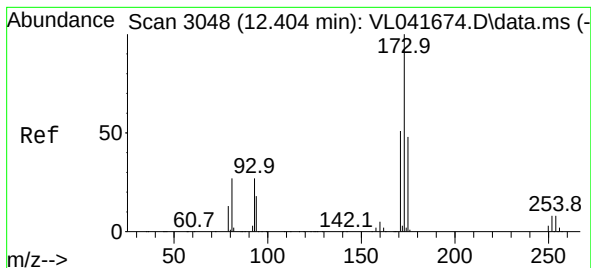
Tgt Ion: 97 Resp: 30507  
Ion Ratio Lower Upper  
97 100  
83 91.3 71.0 106.6  
85 50.4 45.4 68.2  
99 63.6 49.0 73.6



#48  
Dibromochloromethane  
Concen: 0.411 ppbv  
RT: 9.709 min Scan# 2210  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 129 Resp: 64053  
Ion Ratio Lower Upper  
129 100  
127 79.0 39.1 117.2





#49

Bromoform

Concen: 0.214 ppbv

RT: 12.401 min Scan# 3048

Delta R.T. -0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.5

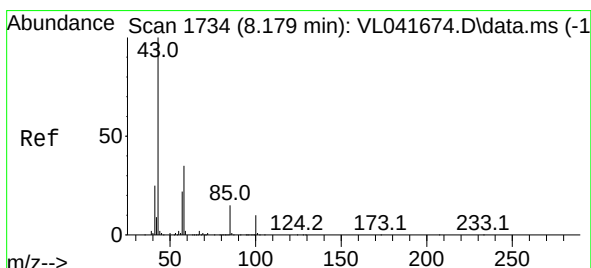
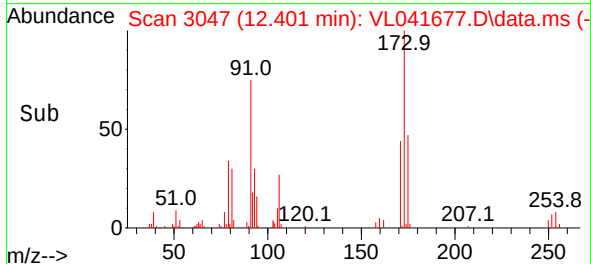
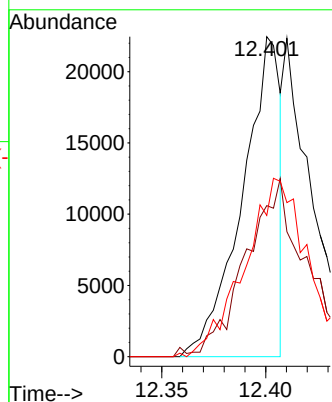
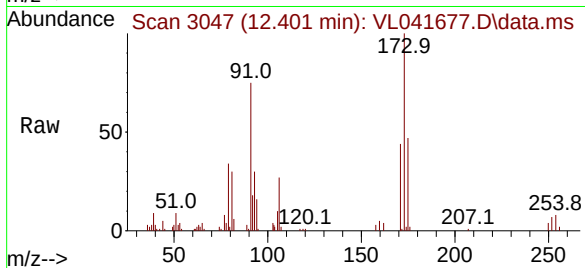
Tgt Ion:173 Resp: 28465

Ion Ratio Lower Upper

173 100

175 0.0 39.2 58.8#

171 0.0 41.7 62.5#



#50

4-Methyl-2-Pentanone

Concen: 0.368 ppbv

RT: 8.198 min Scan# 1740

Delta R.T. 0.019 min

Lab File: VL041677.D

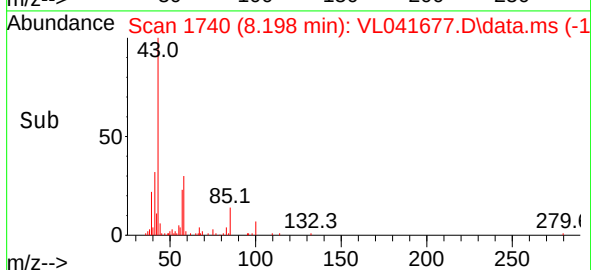
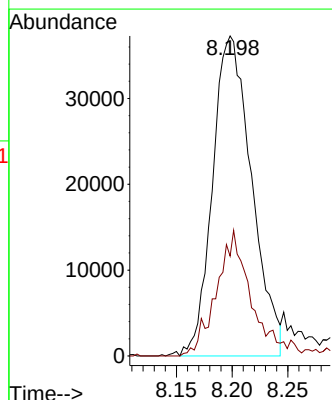
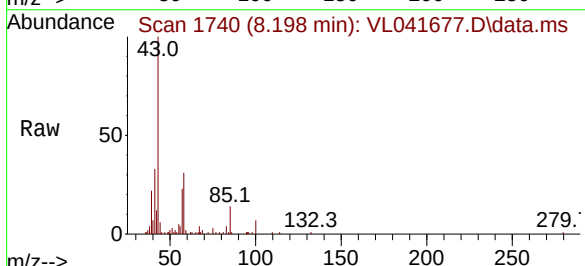
Acq: 7 Nov 2024 12:13

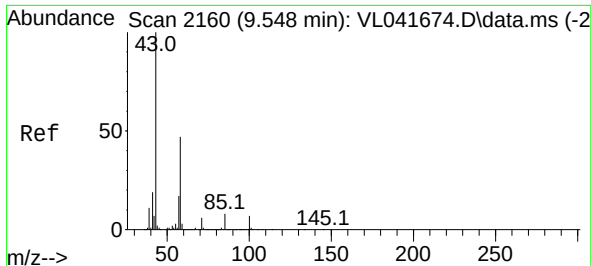
Tgt Ion: 43 Resp: 90923

Ion Ratio Lower Upper

43 100

58 35.7 27.7 41.5

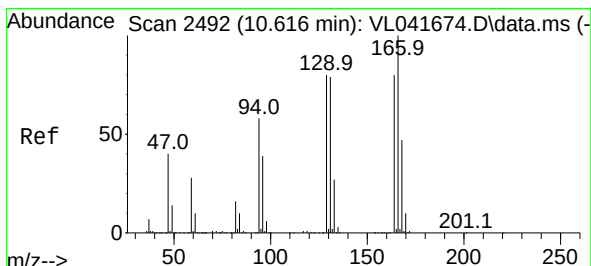
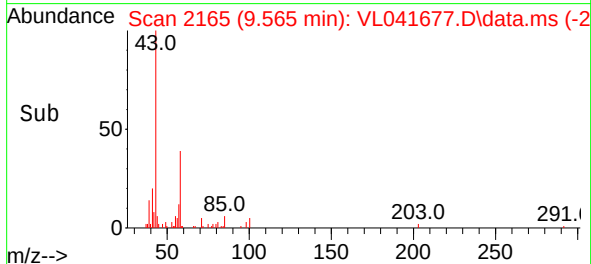
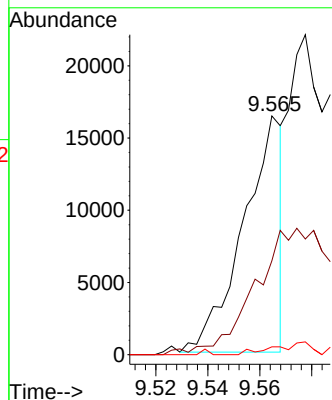
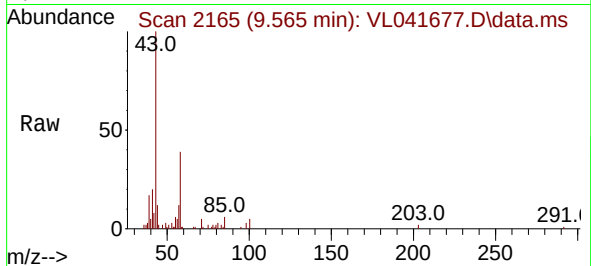




#51  
2-Hexanone  
Concen: 0.095 ppbv  
RT: 9.565 min Scan# 2165  
Delta R.T. 0.016 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

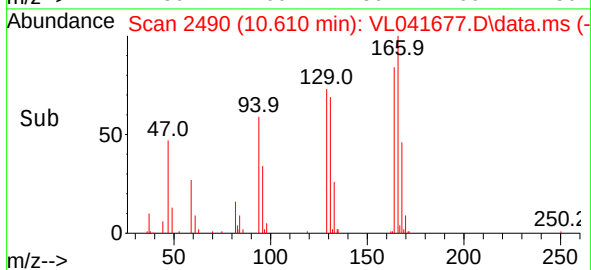
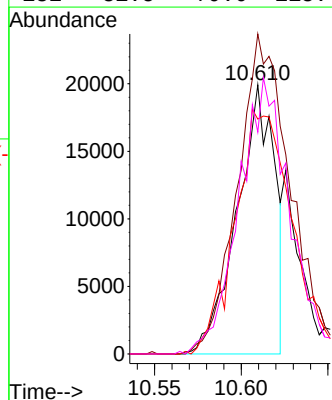
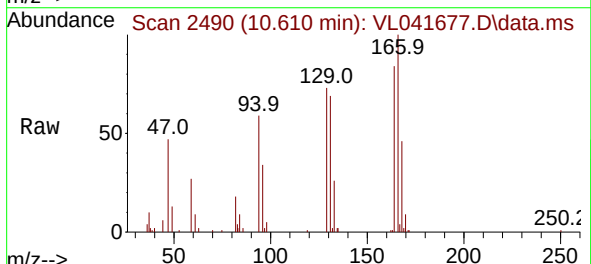
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

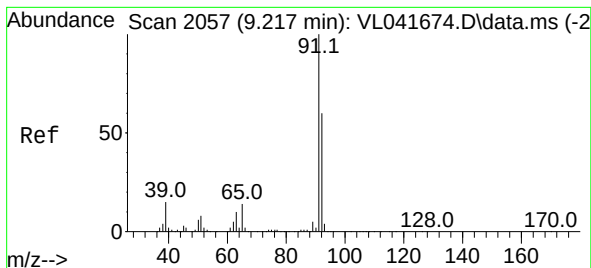
Tgt Ion: 43 Resp: 16978  
Ion Ratio Lower Upper  
43 100  
58 0.0 37.0 55.6#  
98 0.0 0.6 0.8#



#52  
Tetrachloroethene  
Concen: 0.365 ppbv  
RT: 10.610 min Scan# 2490  
Delta R.T. -0.006 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 164 Resp: 29917  
Ion Ratio Lower Upper  
164 100  
166 118.9 100.2 150.4  
129 87.3 79.7 119.5  
131 81.5 79.0 118.4





#53

Toluene

Concen: 0.359 ppbv

RT: 9.221 min Scan# 2058

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_1

ClientSampleId :

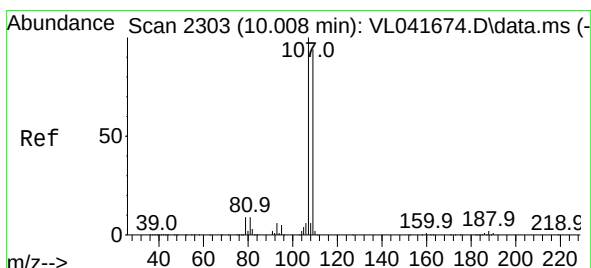
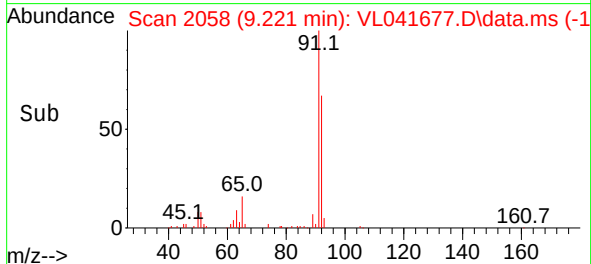
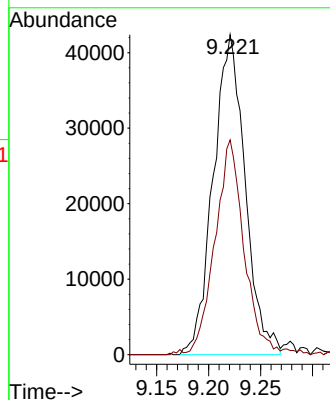
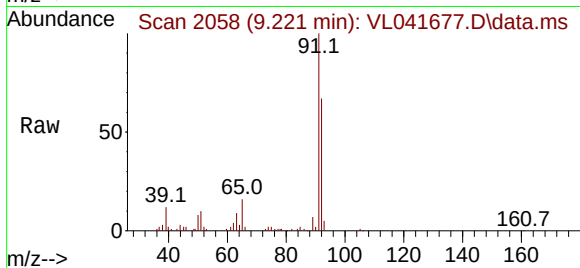
VSTDICC0.5

Tgt Ion: 91 Resp: 90468

Ion Ratio Lower Upper

91 100

92 62.1 49.0 73.4



#54

1,2-Dibromoethane

Concen: 0.214 ppbv

RT: 10.002 min Scan# 2301

Delta R.T. -0.006 min

Lab File: VL041677.D

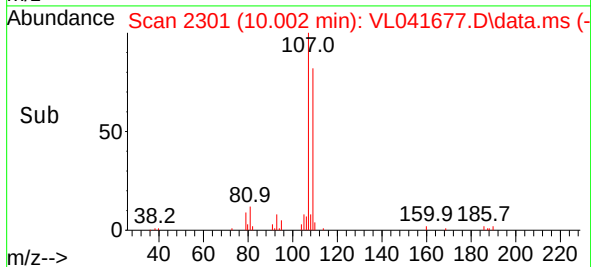
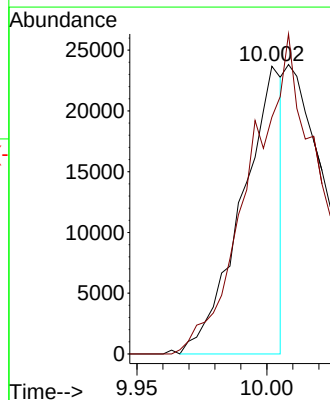
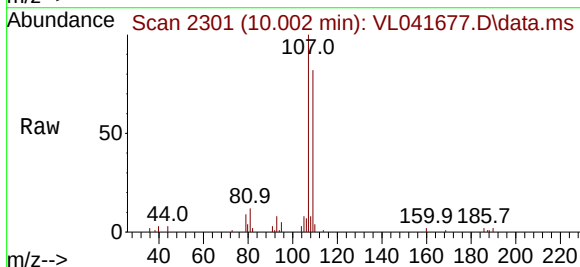
Acq: 7 Nov 2024 12:13

Tgt Ion: 107 Resp: 25474

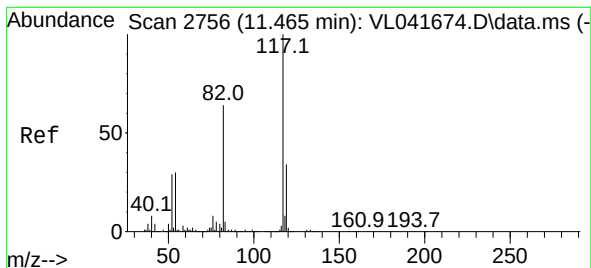
Ion Ratio Lower Upper

107 100

109 80.9 74.9 112.3



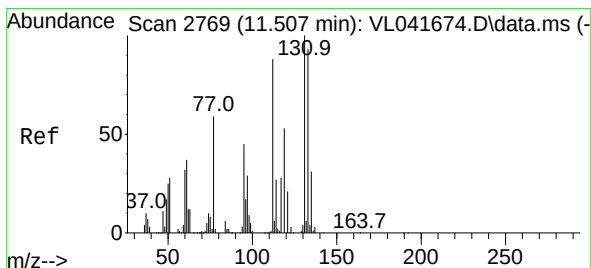
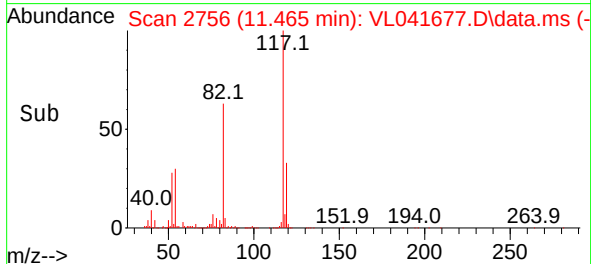
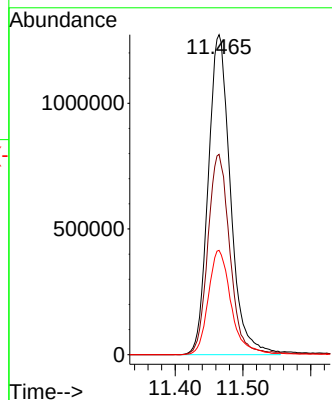
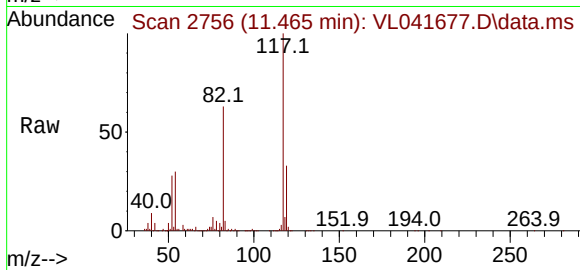




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.465 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

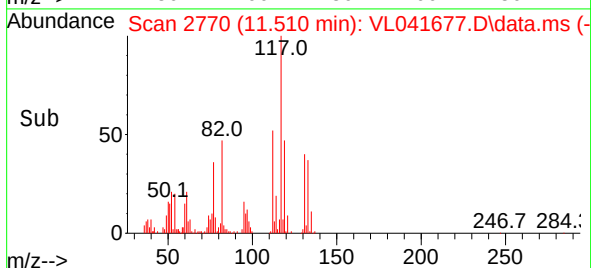
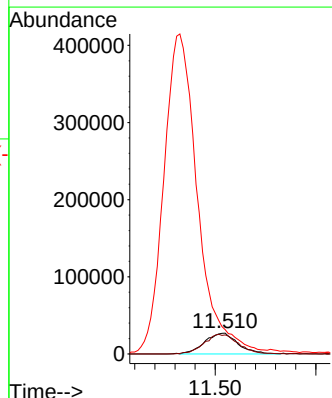
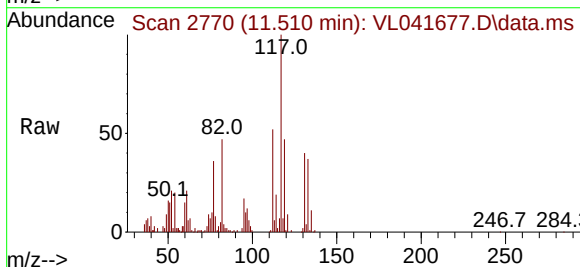
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

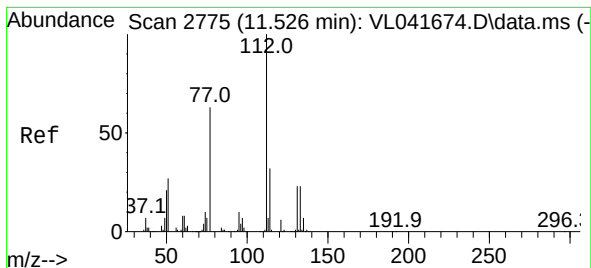
Tgt Ion:117 Resp: 2900644  
Ion Ratio Lower Upper  
117 100  
82 63.2 49.8 74.8  
119 33.9 24.2 36.4



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.512 ppbv  
RT: 11.510 min Scan# 2770  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion:131 Resp: 61817  
Ion Ratio Lower Upper  
131 100  
133 97.3 76.5 114.7  
119 1592.6 49.8 74.8#

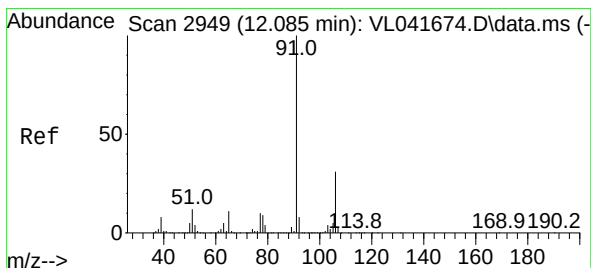
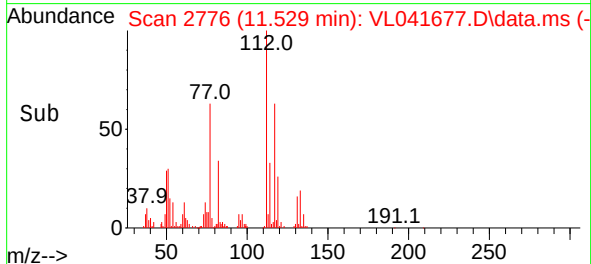
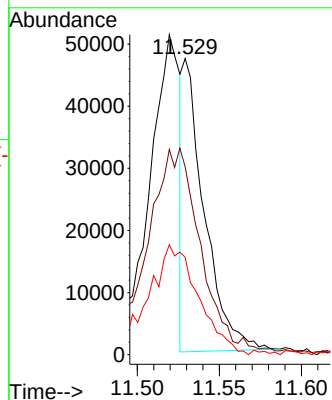
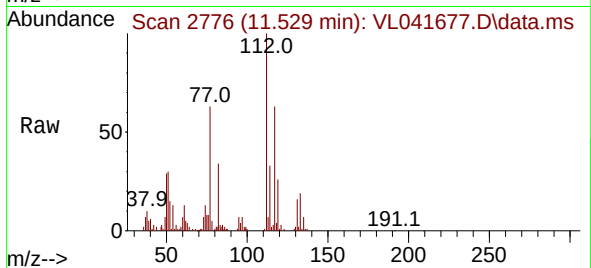




#57  
Chlorobenzene  
Concen: 0.197 ppbv  
RT: 11.529 min Scan# 211  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

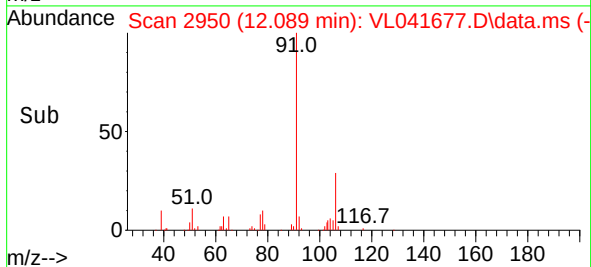
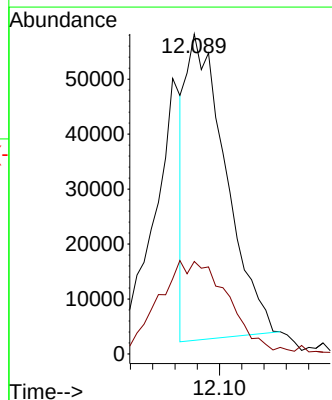
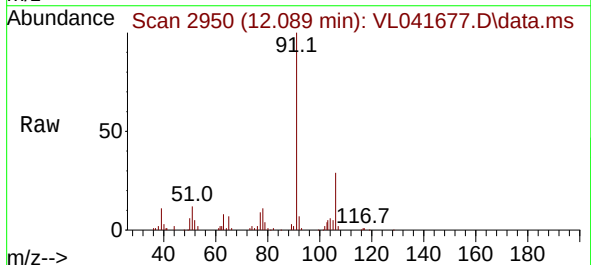
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

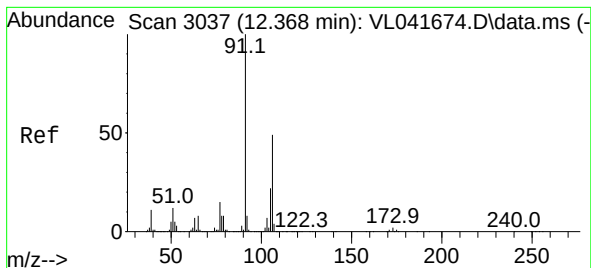
Tgt Ion:112 Resp: 42625  
Ion Ratio Lower Upper  
112 100  
77 63.3 51.4 77.2  
114 33.5 28.4 34.8



#58  
Ethyl Benzene  
Concen: 0.214 ppbv  
RT: 12.089 min Scan# 2950  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 91 Resp: 68854  
Ion Ratio Lower Upper  
91 100  
106 28.8 24.9 37.3

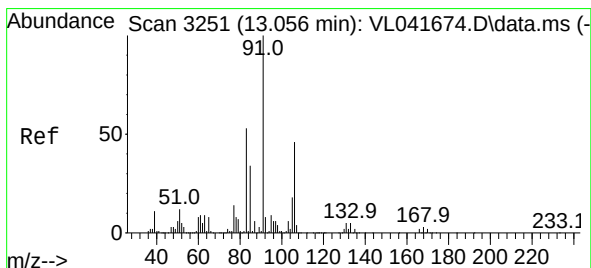
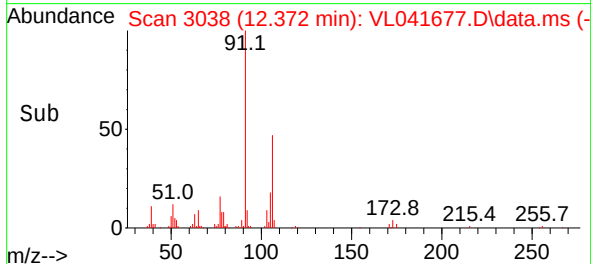
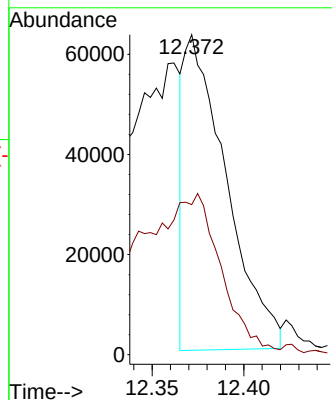
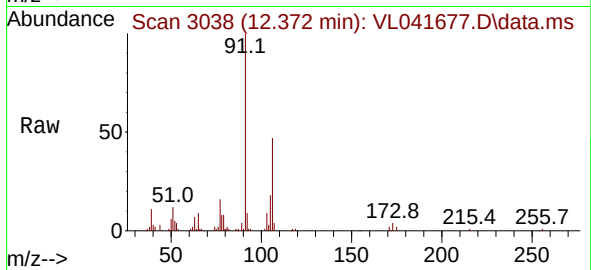




#59  
m/p-Xylene  
Concen: 0.348 ppbv  
RT: 12.372 min Scan# 3038  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

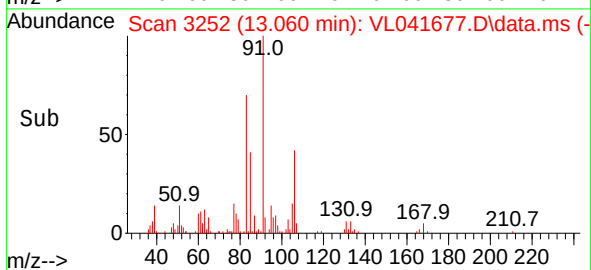
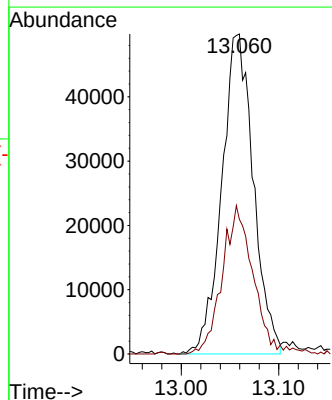
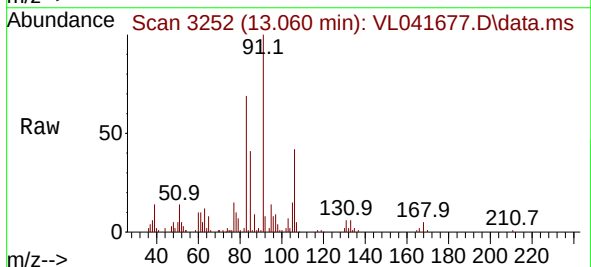
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

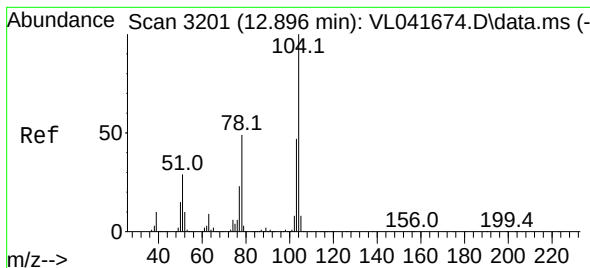
Tgt Ion: 91 Resp: 100159  
Ion Ratio Lower Upper  
91 100  
106 109.7 36.9 55.3#



#60  
o-Xylene  
Concen: 0.408 ppbv  
RT: 13.060 min Scan# 3252  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 91 Resp: 111856  
Ion Ratio Lower Upper  
91 100  
106 45.8 23.2 69.6





#61

Styrene

Concen: 0.293 ppbv

RT: 12.899 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

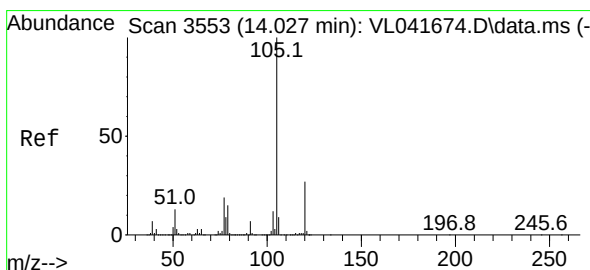
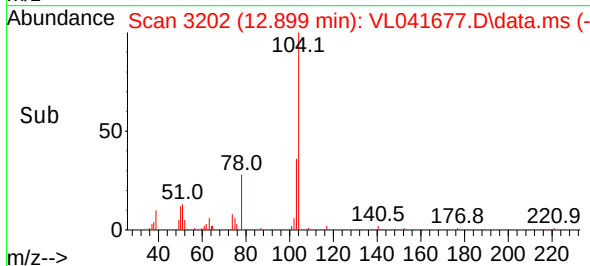
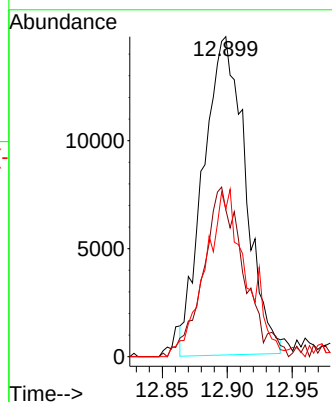
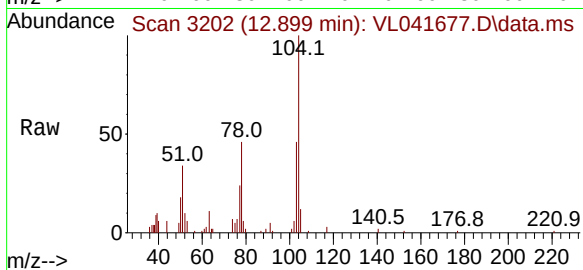
Tgt Ion:104 Resp: 33155

Ion Ratio Lower Upper

104 100

78 51.6 39.8 59.8

103 52.4 37.4 56.0



#62

Isopropylbenzene

Concen: 0.443 ppbv

RT: 14.031 min Scan# 3554

Delta R.T. 0.003 min

Lab File: VL041677.D

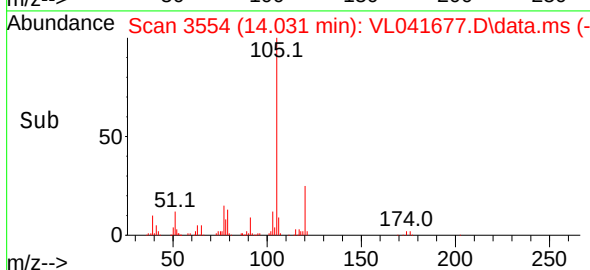
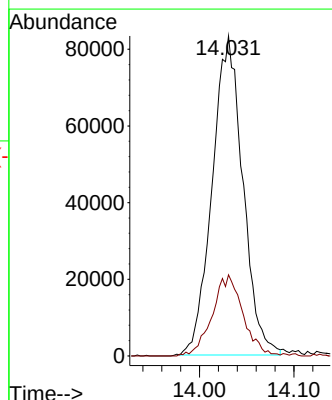
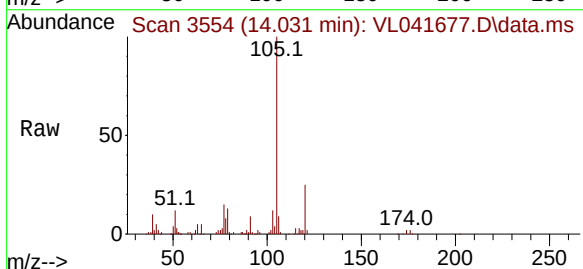
Acq: 7 Nov 2024 12:13

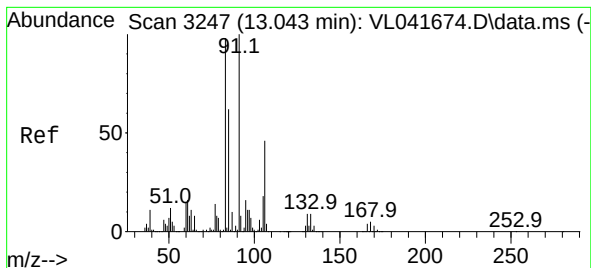
Tgt Ion:105 Resp: 187478

Ion Ratio Lower Upper

105 100

120 25.6 21.1 31.7

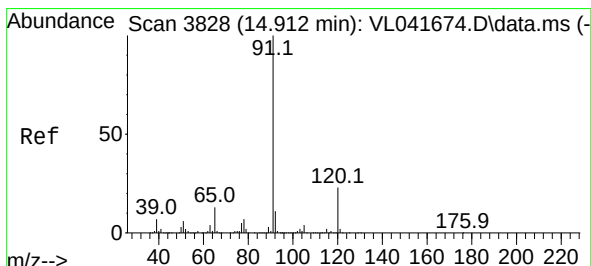
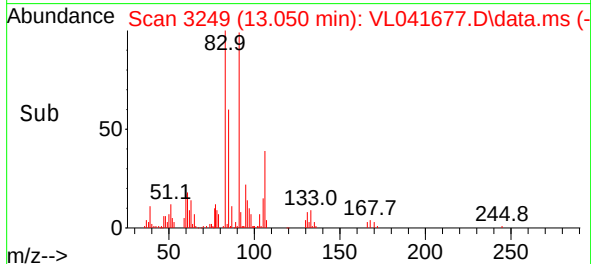
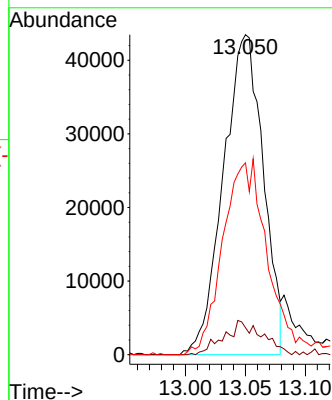
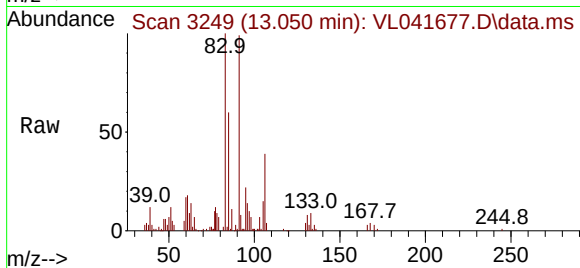




#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.503 ppbv  
RT: 13.050 min Scan# 31  
Delta R.T. 0.007 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

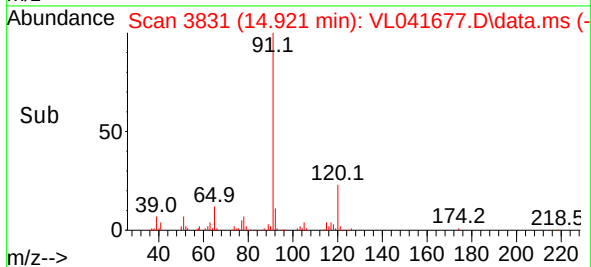
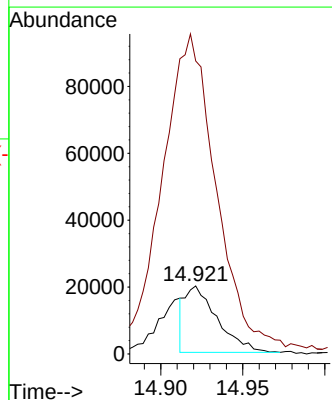
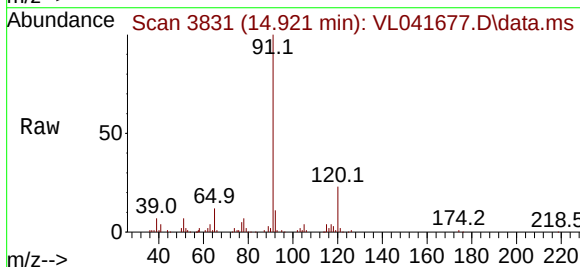
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

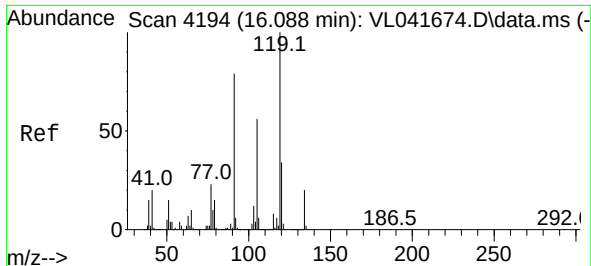
Tgt Ion: 83 Resp: 100534  
Ion Ratio Lower Upper  
83 100  
131 10.2 4.8 14.3  
85 69.1 32.6 98.0



#64  
n-propylbenzene  
Concen: 0.244 ppbv  
RT: 14.921 min Scan# 3831  
Delta R.T. 0.010 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion:120 Resp: 27038  
Ion Ratio Lower Upper  
120 100  
91 848.8 362.4 543.6#

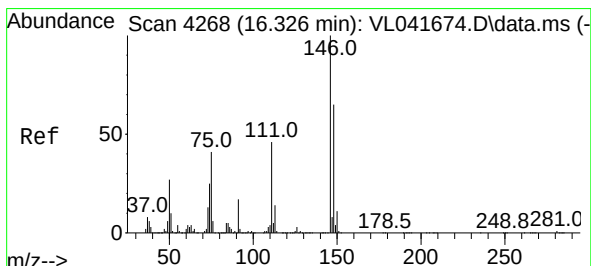
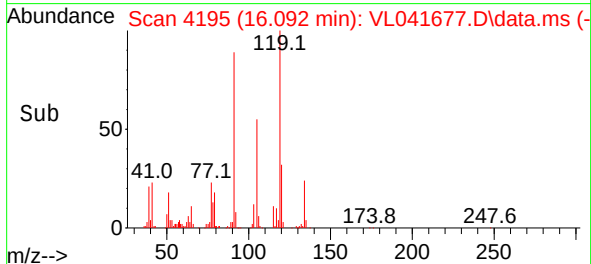
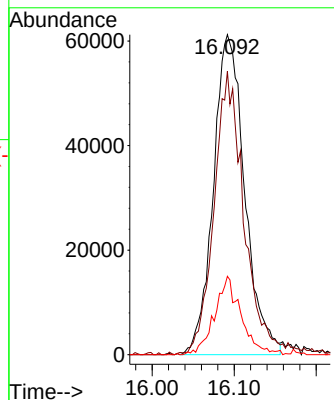
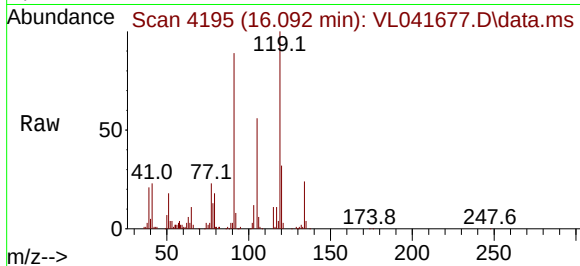




#65  
tert-Butylbenzene  
Concen: 0.428 ppbv  
RT: 16.092 min Scan# 4195  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

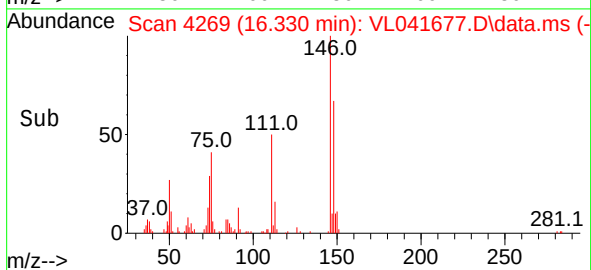
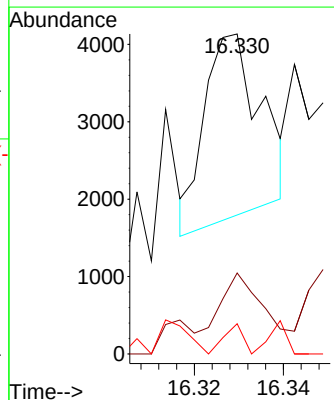
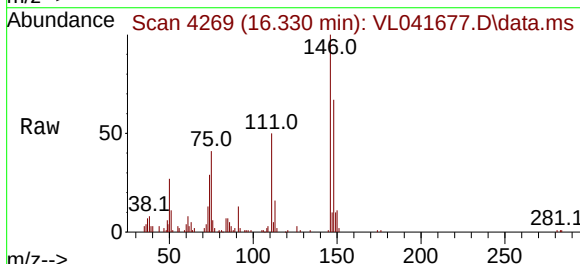
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

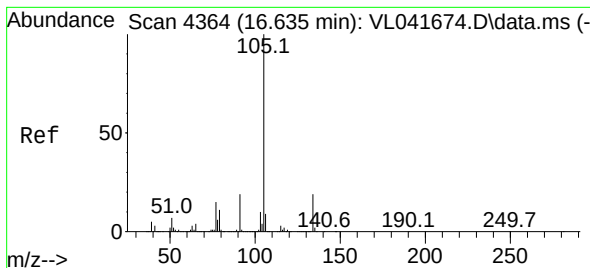
Tgt Ion:119 Resp: 162846  
Ion Ratio Lower Upper  
119 100  
91 86.0 64.3 96.5  
134 20.8 15.8 23.8



#66  
Benzyl Chloride  
Concen: 0.076 ppbv  
RT: 16.330 min Scan# 4269  
Delta R.T. 0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 91 Resp: 2089  
Ion Ratio Lower Upper  
91 100  
126 0.0 13.8 20.6#  
128 21.9 4.3 6.5#





#67

sec-Butylbenzene

Concen: 0.429 ppbv

RT: 16.638 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

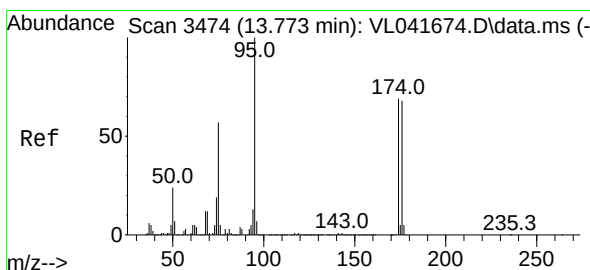
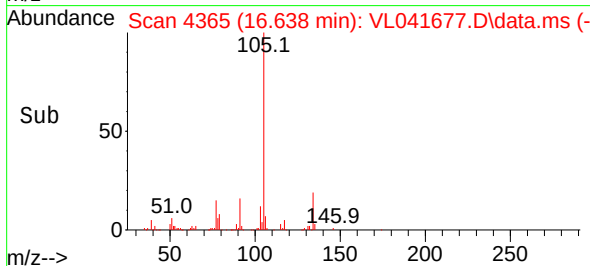
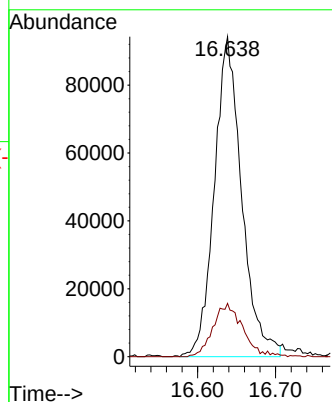
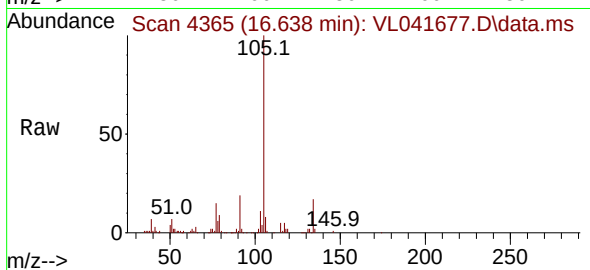
VSTDIC0.5

Tgt Ion:105 Resp: 230007

Ion Ratio Lower Upper

105 100

134 18.1 14.6 22.0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.318 ppbv

RT: 13.777 min Scan# 3475

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

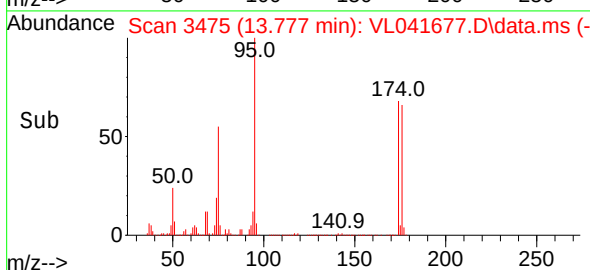
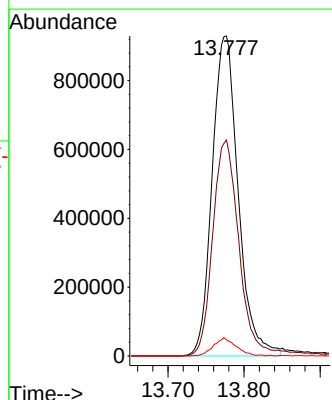
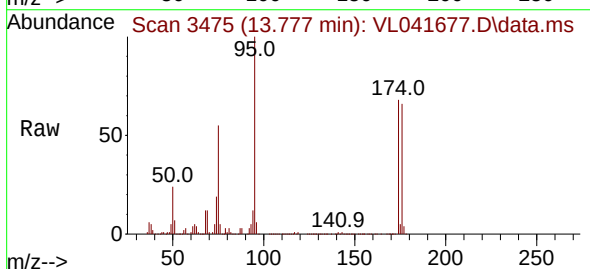
Tgt Ion: 95 Resp: 2213310

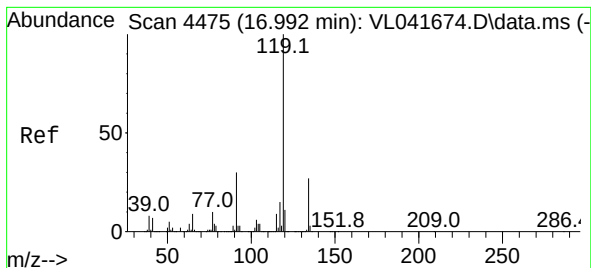
Ion Ratio Lower Upper

95 100

174 69.7 55.6 83.4

175 5.1 4.2 6.2





#69

p-Isopropyltoluene

Concen: 0.389 ppbv

RT: 16.995 min Scan# 4475

Delta R.T. 0.003 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.5

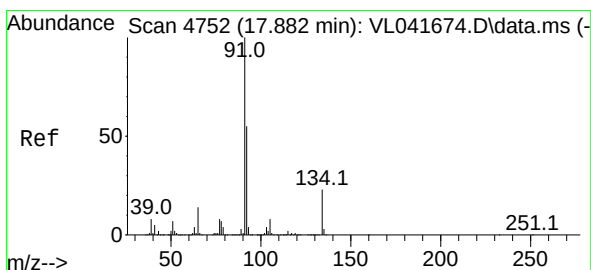
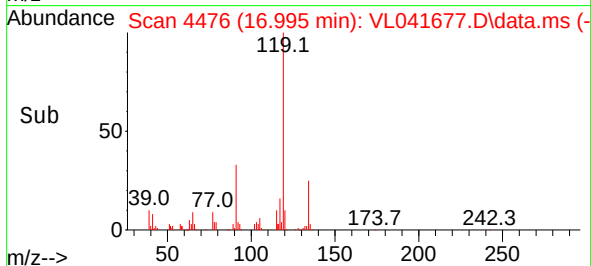
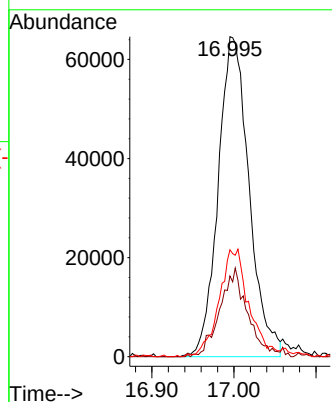
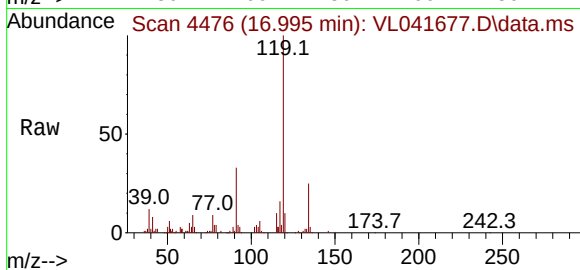
Tgt Ion:119 Resp: 169014

Ion Ratio Lower Upper

119 100

134 25.1 20.8 31.2

91 33.6 23.2 34.8



#70

n-Butylbenzene

Concen: 0.356 ppbv

RT: 17.892 min Scan# 4755

Delta R.T. 0.010 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

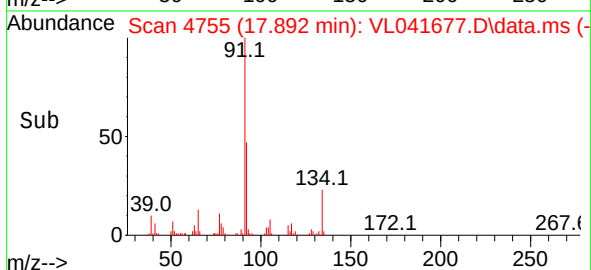
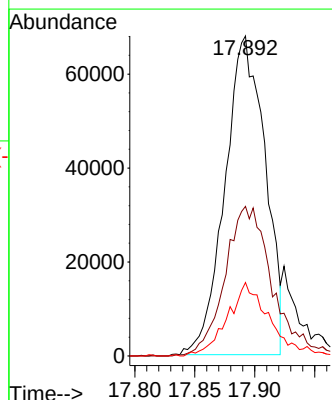
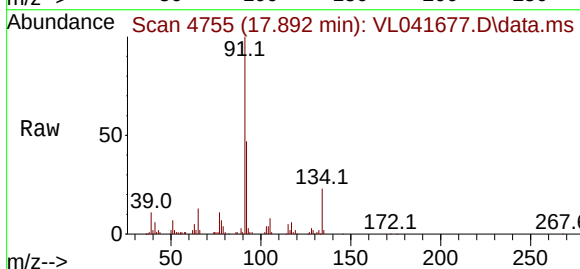
Tgt Ion: 91 Resp: 158268

Ion Ratio Lower Upper

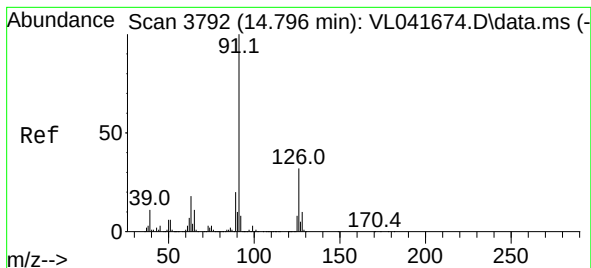
91 100

92 55.7 43.3 64.9

134 24.3 18.4 27.6



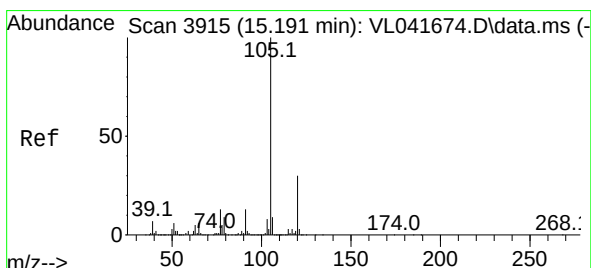
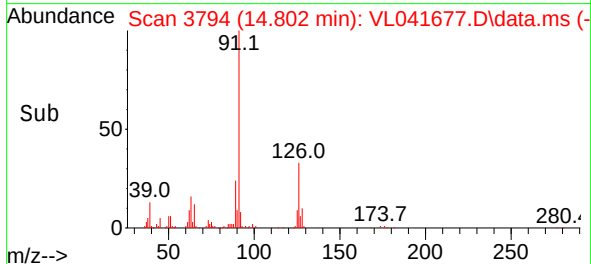
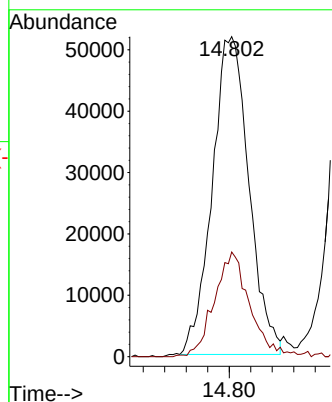
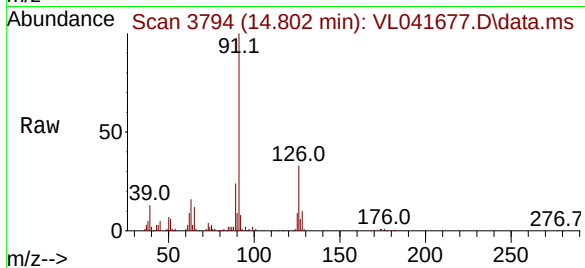




#71  
2-Chlorotoluene  
Concen: 0.401 ppbv  
RT: 14.802 min Scan# 31  
Delta R.T. 0.007 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

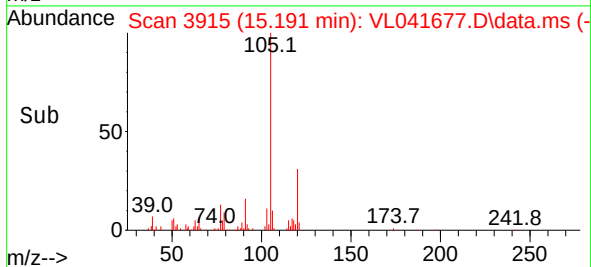
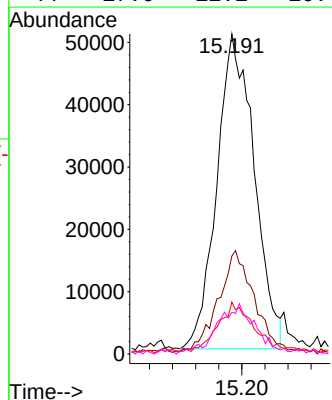
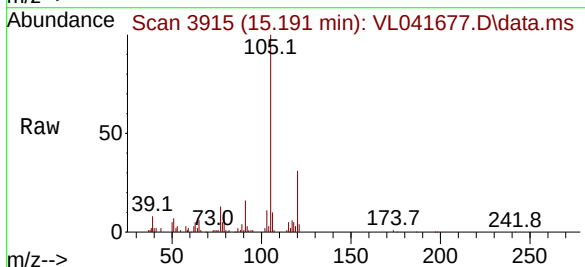
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

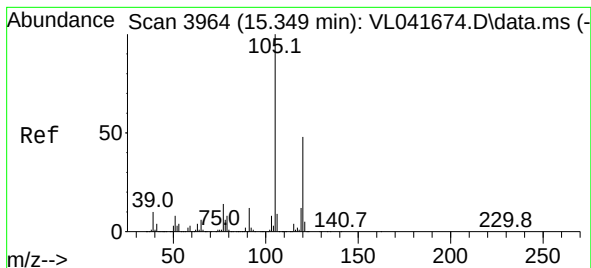
Tgt Ion: 91 Resp: 122982  
Ion Ratio Lower Upper  
91 100  
126 31.8 12.8 51.0



#72  
4-Ethyltoluene  
Concen: 0.356 ppbv  
RT: 15.191 min Scan# 3915  
Delta R.T. 0.000 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion: 105 Resp: 113592  
Ion Ratio Lower Upper  
105 100  
120 33.4 25.0 37.4  
91 19.0 10.6 15.8#  
77 17.0 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.250 ppbv

RT: 15.355 min Scan# 3966

Delta R.T. 0.007 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_1

ClientSampleId :

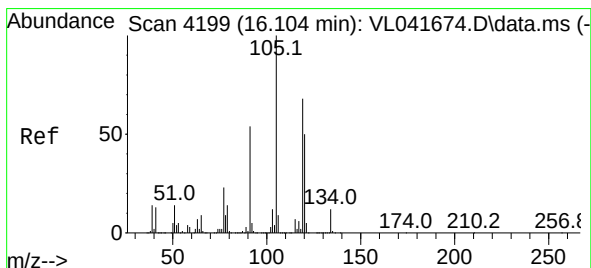
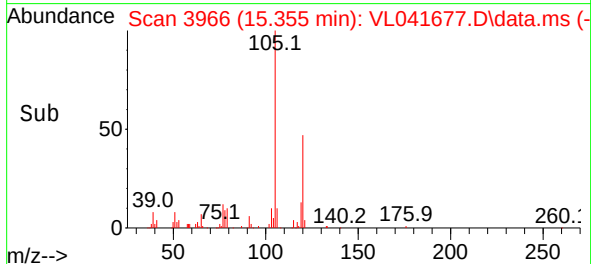
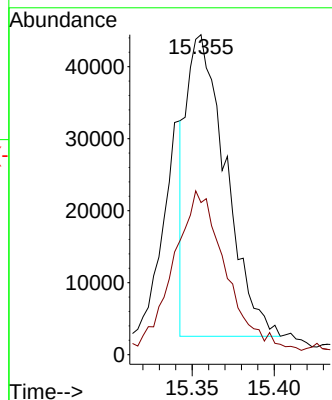
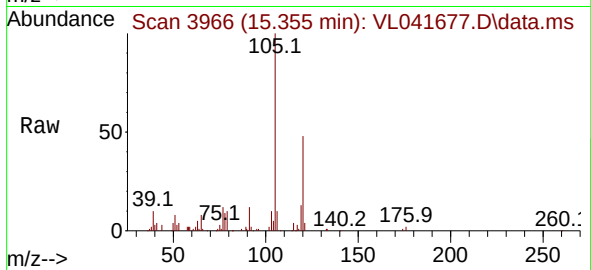
VSTDIC0.5

Tgt Ion:105 Resp: 69729

Ion Ratio Lower Upper

105 100

120 47.0 38.4 57.6



#74

1,2,4-Trimethylbenzene

Concen: 0.437 ppbv

RT: 16.111 min Scan# 4201

Delta R.T. 0.007 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Tgt Ion:105 Resp: 142178

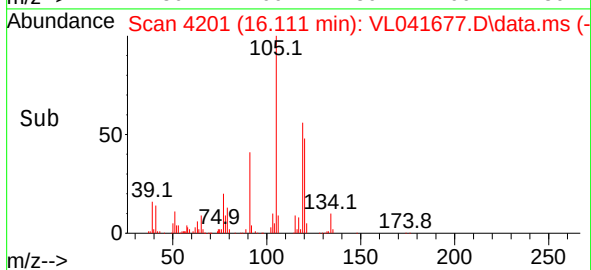
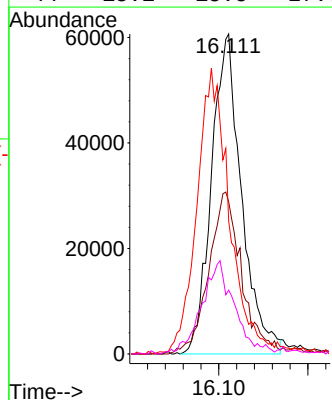
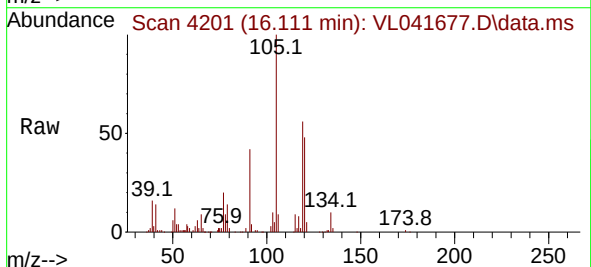
Ion Ratio Lower Upper

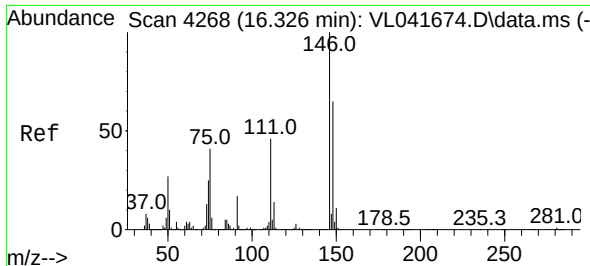
105 100

120 46.3 39.8 59.8

91 39.2 43.2 64.8#

77 18.1 18.5 27.7#

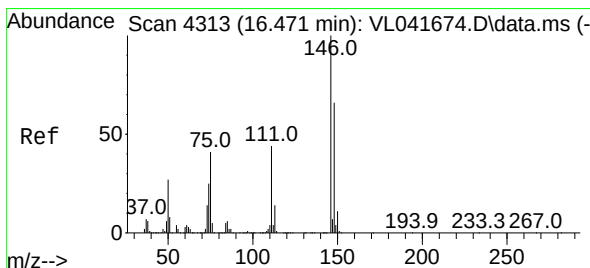
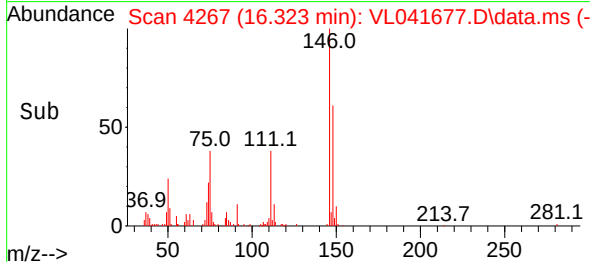
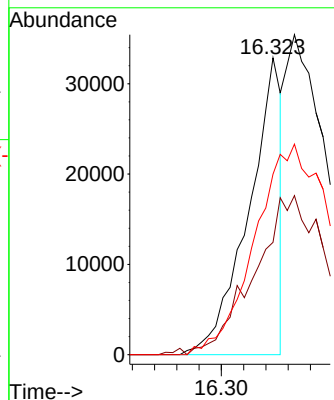
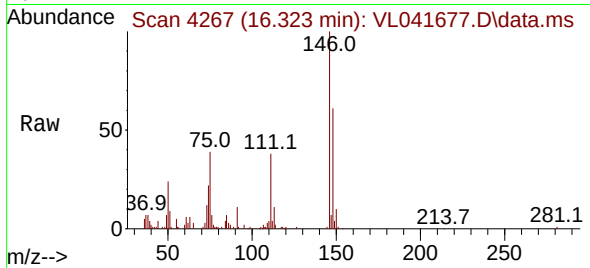




#75  
1,3-Dichlorobenzene  
Concen: 0.167 ppbv  
RT: 16.323 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

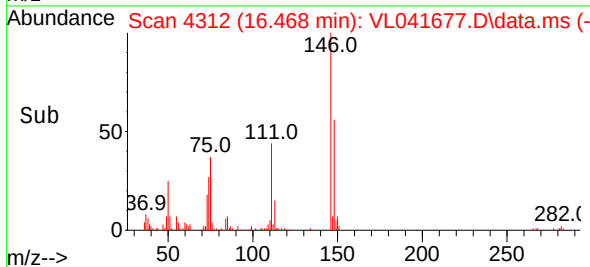
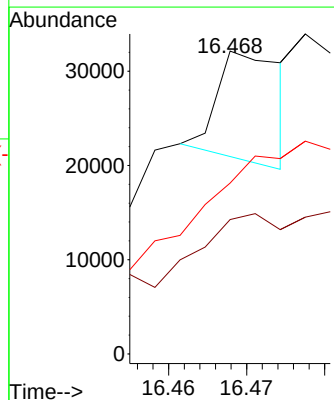
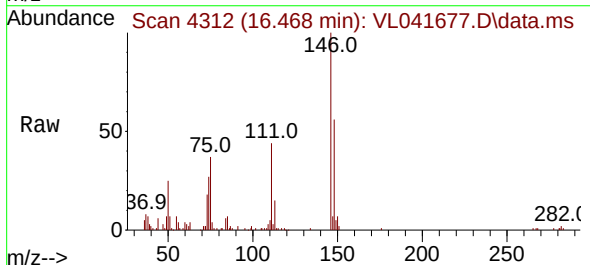
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

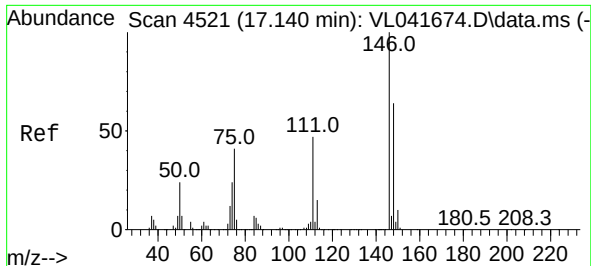
Tgt Ion:146 Resp: 33527  
Ion Ratio Lower Upper  
146 100  
111 0.0 22.8 68.3#  
148 0.0 32.4 97.0#



#76  
1,4-Dichlorobenzene  
Concen: 0.033 ppbv  
RT: 16.468 min Scan# 4312  
Delta R.T. -0.003 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion:146 Resp: 6516  
Ion Ratio Lower Upper  
146 100  
111 0.0 22.1 66.3#  
148 0.0 33.3 99.8#

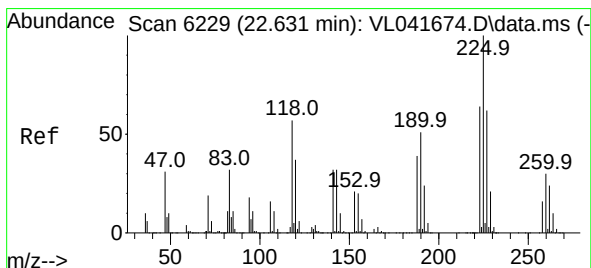
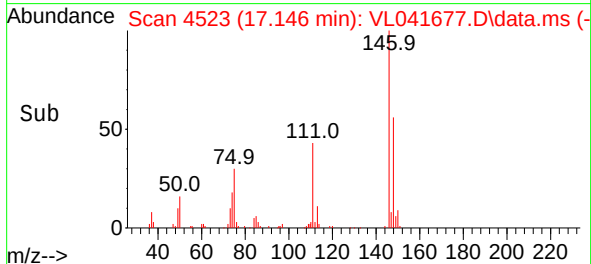
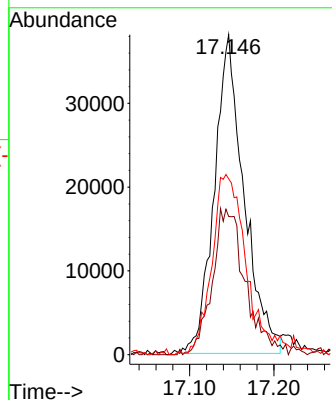
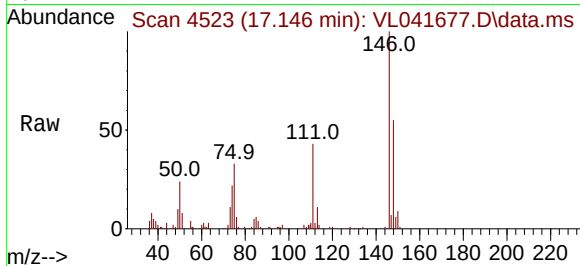




#77  
1,2-Dichlorobenzene  
Concen: 0.468 ppbv  
RT: 17.146 min Scan# 4521  
Delta R.T. 0.007 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

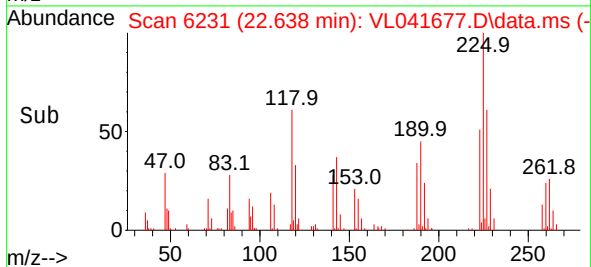
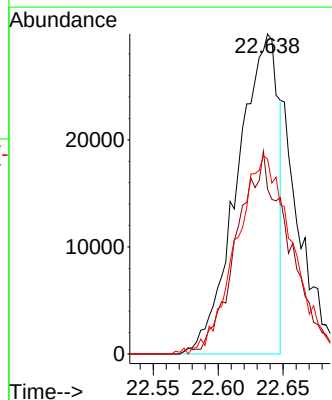
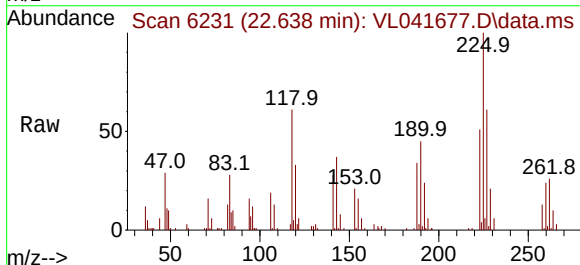
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

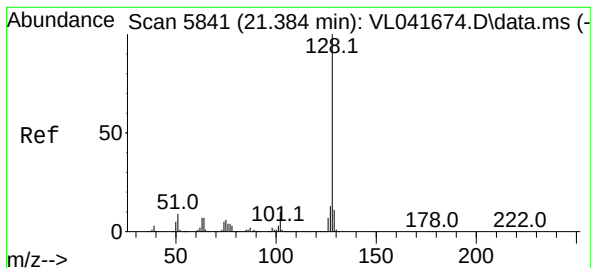
Tgt Ion:146 Resp: 93228  
Ion Ratio Lower Upper  
146 100  
111 52.2 23.4 70.3  
148 67.8 32.1 96.5



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.414 ppbv  
RT: 22.638 min Scan# 6231  
Delta R.T. 0.007 min  
Lab File: VL041677.D  
Acq: 7 Nov 2024 12:13

Tgt Ion:225 Resp: 65313  
Ion Ratio Lower Upper  
225 100  
223 82.2 51.1 76.7#  
227 87.7 51.3 76.9#





#79

Naphthalene

Concen: 0.185 ppbv

RT: 21.397 min Scan# 5845

Delta R.T. 0.013 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.5

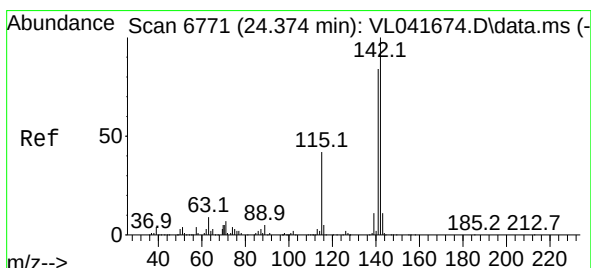
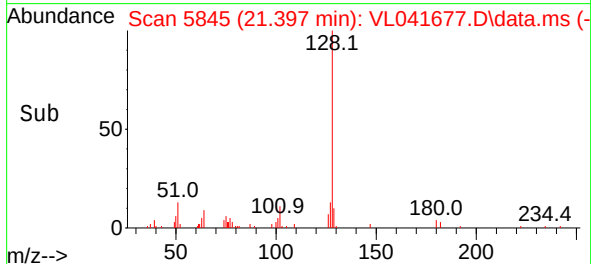
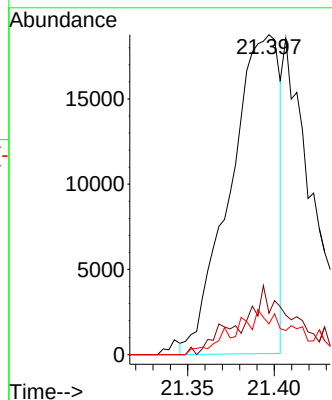
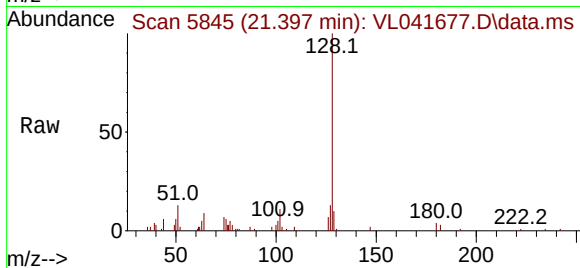
Tgt Ion:128 Resp: 36894

Ion Ratio Lower Upper

128 100

127 9.8 10.5 15.7#

129 10.0 8.7 13.1



#80

Naphthalene,2-methyl-

Concen: 0.304 ppbv

RT: 24.410 min Scan# 6782

Delta R.T. 0.036 min

Lab File: VL041677.D

Acq: 7 Nov 2024 12:13

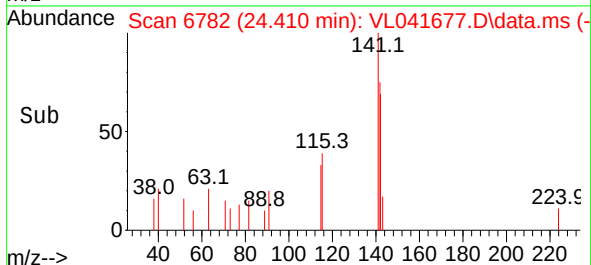
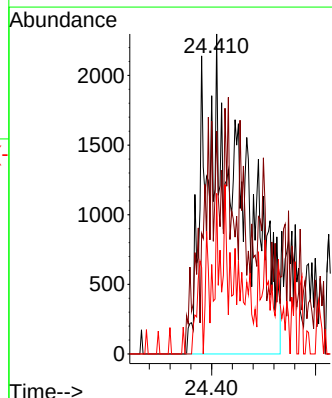
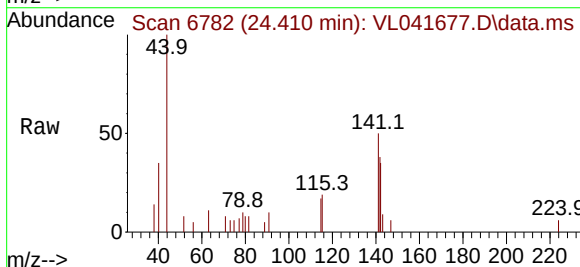
Tgt Ion:142 Resp: 11292

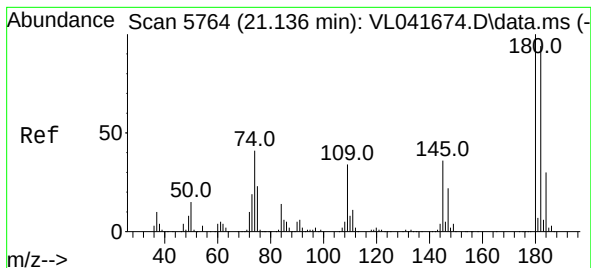
Ion Ratio Lower Upper

142 100

141 48.5 68.1 102.1#

115 20.6 33.1 49.7#





#81

1,2,4-Trichlorobenzene

Concen: 0.149 ppbv

RT: 21.143 min Scan# 51

Delta R.T. 0.007 min

Lab File: VL041677.D

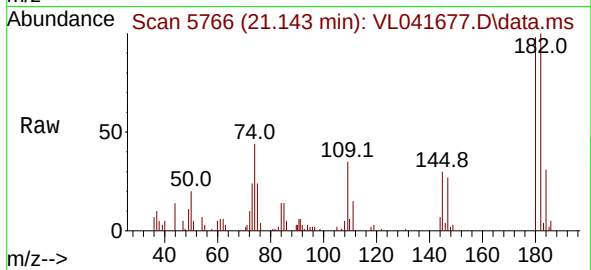
Acq: 7 Nov 2024 12:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5



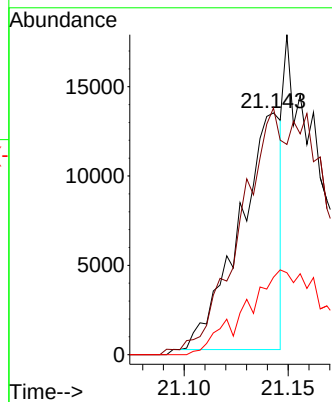
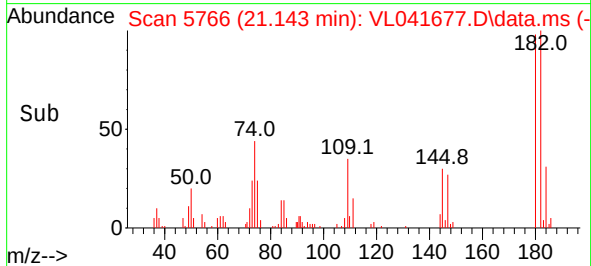
Tgt Ion:180 Resp: 18569

Ion Ratio Lower Upper

180 100

182 249.5 78.2 117.2#

184 0.0 25.0 37.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041678.D  
 Acq On : 7 Nov 2024 12:52  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Quant Time: Nov 08 00:11:58 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.189  | 49   | 1123559  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.648  | 114  | 3159589  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.465 | 117  | 2815160  | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 13.774 | 95    | 2112048  | 10.145   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.400% |

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.722 | 85  | 20328  | 0.100 | ppbv   | 93     |
| 3) Chlorodifluoromethane      | 2.668 | 51  | 14728  | 0.101 | ppbv   | 96     |
| 4) Chloromethane              | 2.806 | 50  | 7476   | 0.096 | ppbv   | 97     |
| 5) Vinyl Chloride             | 2.915 | 62  | 5503   | 0.078 | ppbv   | 97     |
| 6) Bromomethane               | 3.115 | 94  | 3797   | 0.103 | ppbv # | 57     |
| 7) Chloroethane               | 3.195 | 64  | 1157   | 0.045 | ppbv # | 78     |
| 8) Dichlorotetrafluoroethane  | 2.848 | 85  | 15932  | 0.088 | ppbv   | 96     |
| 9) Propene                    | 2.687 | 41  | 8339   | 0.131 | ppbv   | 94     |
| 10) Heptane                   | 7.578 | 43  | 4990   | 0.035 | ppbv # | 62     |
| 11) Trichlorofluoromethane    | 3.552 | 101 | 15971  | 0.090 | ppbv   | 90     |
| 12) 1,1,2-Trichlorotrifluo... | 4.060 | 101 | 6848   | 0.053 | ppbv # | 27     |
| 13) Ethanol                   | 3.243 | 45  | 204    | 0.051 | ppbv # | 40     |
| 14) Bromoethene               | 3.362 | 108 | 3969   | 0.077 | ppbv # | 89     |
| 15) Acetone                   | 3.488 | 43  | 20040  | 0.145 | ppbv # | 81     |
| 16) 1,3-Butadiene             | 2.980 | 39  | 6807   | 0.098 | ppbv # | 79     |
| 17) tert-Butyl alcohol        | 3.899 | 59  | 4770   | 0.039 | ppbv # | 72     |
| 18) 1,1-Dichloroethene        | 3.874 | 96  | 5246   | 0.093 | ppbv   | 96     |
| 19) Isopropyl Alcohol         | 3.555 | 45  | 63     | 0.001 | ppbv # | 91     |
| 20) Methylene Chloride        | 3.925 | 84  | 12266  | 0.241 | ppbv # | 81     |
| 21) Allyl Chloride            | 3.993 | 41  | 7496   | 0.088 | ppbv # | 79     |
| 22) trans-1,2-Dichloroethene  | 4.439 | 96  | 2308   | 0.041 | ppbv   | 93     |
| 23) Vinyl Acetate             | 4.613 | 43  | 837    | 0.013 | ppbv # | 1      |
| 24) 1,1-Dichloroethane        | 4.558 | 63  | 10607  | 0.085 | ppbv # | 83     |
| 25) Ethyl Acetate             | 5.214 | 43  | 12615  | 0.044 | ppbv # | 76     |
| 26) Hexane                    | 5.205 | 57  | 5831   | 0.053 | ppbv # | 43     |
| 27) Carbon Disulfide          | 4.124 | 76  | 7166   | 0.058 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 4.584 | 73  | 768    | 0.011 | ppbv # | 51     |
| 29) Chloroform                | 5.266 | 83  | 15654  | 0.086 | ppbv   | 92     |
| 30) Cyclohexane               | 6.594 | 84  | 1619   | 0.018 | ppbv # | 1      |
| 31) cis-1,2-Dichloroethene    | 5.076 | 61  | 4534   | 0.043 | ppbv # | 79     |
| 32) 1,1,1-Trichloroethane     | 6.002 | 97  | 7181   | 0.043 | ppbv # | 29     |
| 34) 2-Butanone                | 4.793 | 43  | 2207   | 0.014 | ppbv # | 54     |
| 35) Carbon Tetrachloride      | 6.488 | 117 | 7302   | 0.044 | ppbv # | 80     |
| 36) Benzene                   | 6.362 | 78  | 7427   | 0.032 | ppbv # | 93     |
| 37) 1,2-Dichloroethane        | 5.806 | 62  | 8849   | 0.067 | ppbv # | 84     |
| 38) Trichloroethene           | 7.282 | 130 | 3343   | 0.037 | ppbv # | 66     |
| 39) 1,2-Dichloropropane       | 6.645 | 63  | 775538 | 8.383 | ppbv # | 24     |
| 40) 1,4-Dioxane               | 7.275 | 88  | 38     | 0.001 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.587 | 42  | 2579   | 0.029 | ppbv # | 52     |
| 42) Bromodichloromethane      | 7.246 | 83  | 8093   | 0.044 | ppbv # | 96     |
| 43) Methyl Methacrylate       | 7.468 | 69  | 525    | 0.006 | ppbv # | 1      |
| 44) 2,2,4-Trimethylpentane    | 7.320 | 57  | 2744   | 0.007 | ppbv # | 1      |
| 45) t-1,3-Dichloropropene     | 8.693 | 75  | 538    | 0.007 | ppbv   | 96     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041678.D  
 Acq On : 7 Nov 2024 12:52  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Quant Time: Nov 08 00:11:58 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.140  | 75   | 1104     | 0.010 | ppbv # | 21       |
| 47) 1,1,2-Trichloroethane     | 8.889  | 97   | 2963     | 0.030 | ppbv # | 88       |
| 48) Dibromochloromethane      | 9.706  | 129  | 1289     | 0.008 | ppbv # | 10       |
| 49) Bromoform                 | 12.407 | 173  | 5111     | 0.039 | ppbv # | 70       |
| 50) 4-Methyl-2-Pentanone      | 8.166  | 43   | 129      | 0.001 | ppbv # | 40       |
| 51) 2-Hexanone                | 9.555  | 43   | 130      | 0.001 | ppbv # | 31       |
| 52) Tetrachloroethene         | 10.613 | 164  | 4385     | 0.055 | ppbv # | 68       |
| 53) Toluene                   | 9.217  | 91   | 6426     | 0.026 | ppbv # | 48       |
| 54) 1,2-Dibromoethane         | 10.028 | 107  | 948      | 0.008 | ppbv # | 87       |
| 56) 1,1,1,2-Tetrachloroethane | 11.503 | 131  | 5532     | 0.047 | ppbv # | 19       |
| 57) Chlorobenzene             | 11.520 | 112  | 8824     | 0.042 | ppbv # | 47       |
| 58) Ethyl Benzene             | 12.085 | 91   | 8058     | 0.026 | ppbv # | 76       |
| 59) m/p-Xylene                | 12.372 | 91   | 2522     | 0.009 | ppbv # | 30       |
| 60) o-Xylene                  | 13.060 | 91   | 4516     | 0.017 | ppbv # | 27       |
| 61) Styrene                   | 12.896 | 104  | 1175     | 0.011 | ppbv # | 29       |
| 62) Isopropylbenzene          | 14.028 | 105  | 7473     | 0.018 | ppbv # | 49       |
| 63) 1,1,2,2-Tetrachloroethane | 13.047 | 83   | 6699     | 0.035 | ppbv # | 25       |
| 64) n-propylbenzene           | 14.905 | 120  | 1772     | 0.016 | ppbv # | 1        |
| 65) tert-Butylbenzene         | 16.095 | 119  | 5771     | 0.016 | ppbv # | 12       |
| 66) Benzyl Chloride           | 16.333 | 91   | 477      | 0.018 | ppbv # | 66       |
| 67) sec-Butylbenzene          | 16.642 | 105  | 5110     | 0.010 | ppbv # | 1        |
| 69) p-Isopropyltoluene        | 16.995 | 119  | 3874     | 0.009 | ppbv # | 47       |
| 70) n-Butylbenzene            | 17.883 | 91   | 2579     | 0.006 | ppbv # | 33       |
| 71) 2-Chlorotoluene           | 14.799 | 91   | 5048     | 0.017 | ppbv # | 78       |
| 72) 4-Ethyltoluene            | 15.191 | 105  | 5148     | 0.017 | ppbv # | 18       |
| 73) 1,3,5-Trimethylbenzene    | 15.349 | 105  | 4231     | 0.016 | ppbv # | 78       |
| 74) 1,2,4-Trimethylbenzene    | 16.111 | 105  | 3618     | 0.011 | ppbv # | 45       |
| 75) 1,3-Dichlorobenzene       | 16.326 | 146  | 2267     | 0.012 | ppbv # | 23       |
| 76) 1,4-Dichlorobenzene       | 16.468 | 146  | 2512     | 0.013 | ppbv # | 1        |
| 77) 1,2-Dichlorobenzene       | 17.153 | 146  | 6040     | 0.031 | ppbv # | 27       |
| 78) Hexachloro-1,3-Butadiene  | 22.632 | 225  | 5833     | 0.038 | ppbv # | 1        |
| 79) Naphthalene               | 21.394 | 128  | 1624     | 0.008 | ppbv # | 69       |
| 80) Naphthalene,2-methyl-     | 24.329 | 142  | 34       | 0.001 | ppbv # | 16       |
| 81) 1,2,4-Trichlorobenzene    | 21.137 | 180  | 609      | 0.005 | ppbv # | 11       |

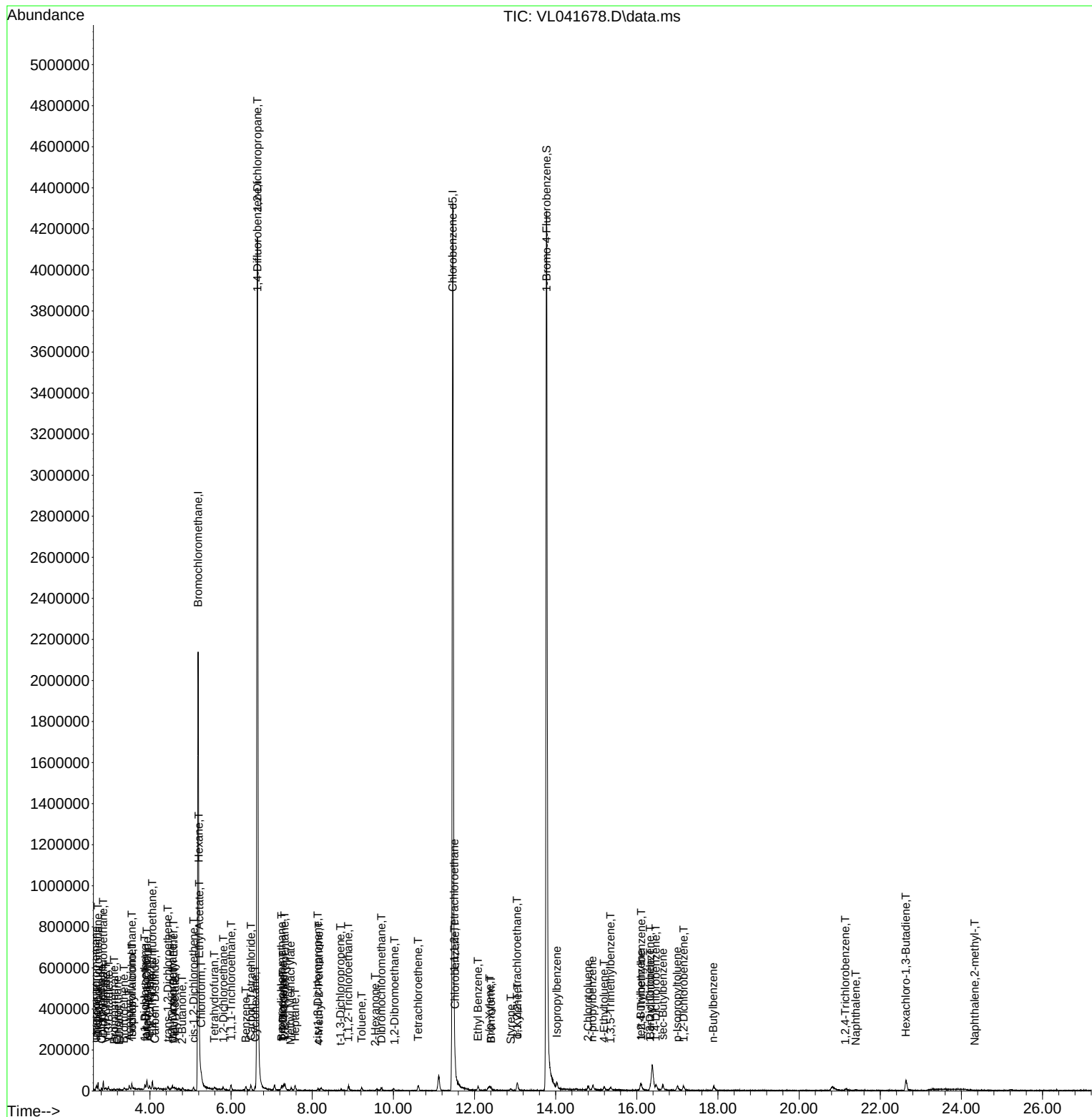
(#) = qualifier out of range (m) = manual integration (+) = signals summed

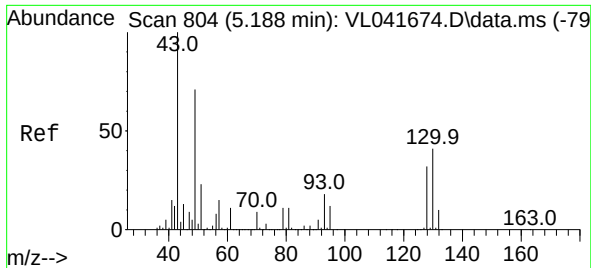


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Data File : VL041678.D  
Acq On : 7 Nov 2024 12:52  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Quant Time: Nov 08 00:11:58 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

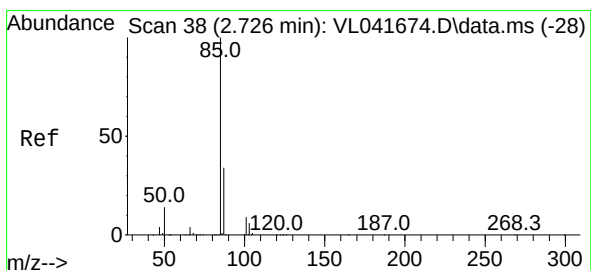
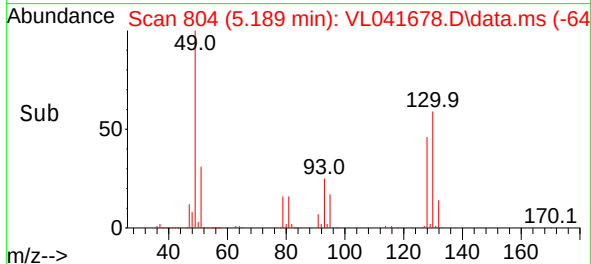
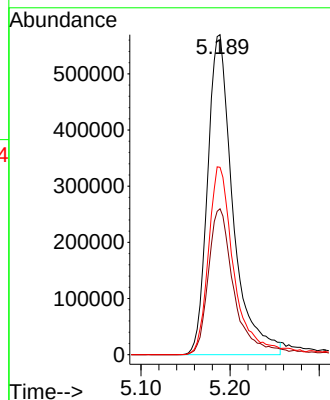
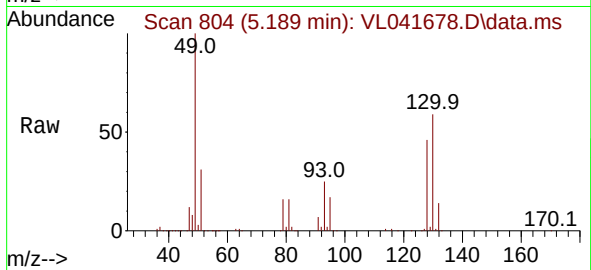




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.189 min Scan# 80  
Delta R.T. 0.001 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

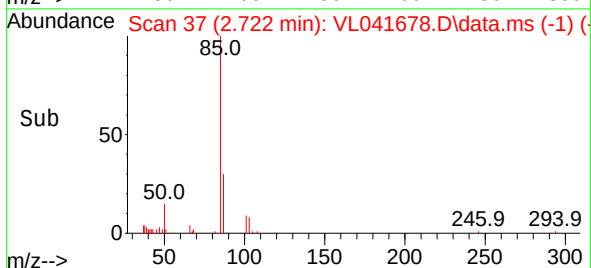
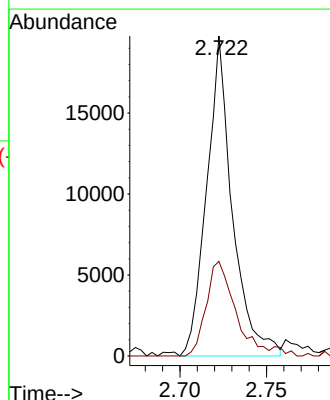
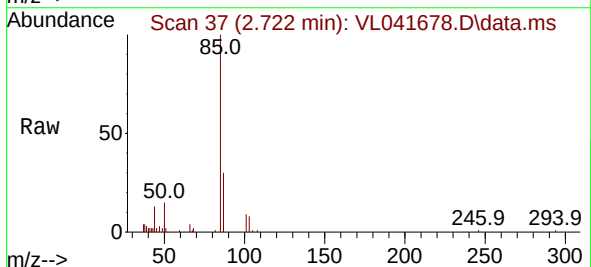
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

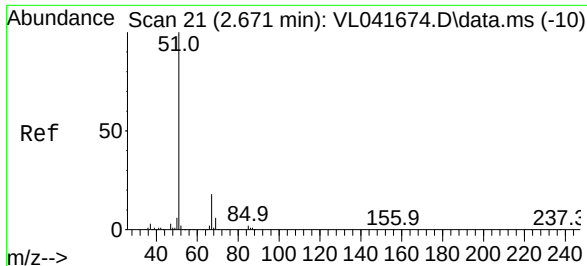
Tgt Ion: 49 Resp: 1123559  
Ion Ratio Lower Upper  
49 100  
128 48.3 23.8 71.2  
130 62.1 30.1 90.5



#2  
Dichlorodifluoromethane  
Concen: 0.100 ppbv  
RT: 2.722 min Scan# 37  
Delta R.T. -0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Tgt Ion: 85 Resp: 20328  
Ion Ratio Lower Upper  
85 100  
87 29.5 26.8 40.2

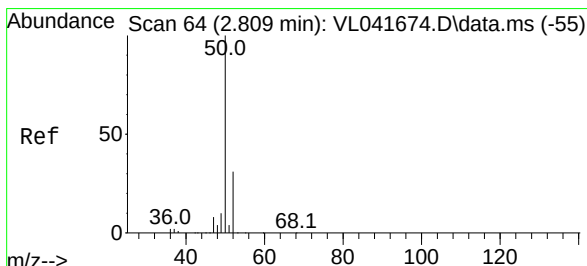
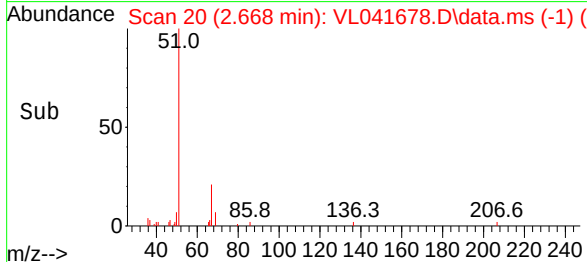
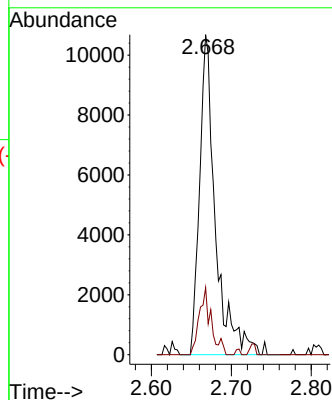
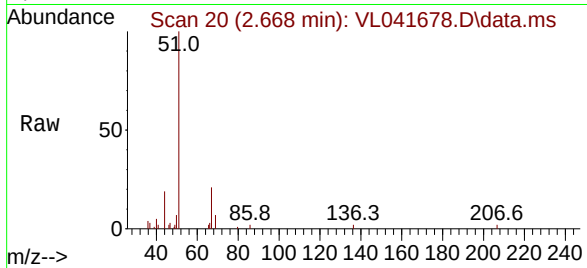




#3  
Chlorodifluoromethane  
Concen: 0.101 ppbv  
RT: 2.668 min Scan# 20  
Delta R.T. -0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

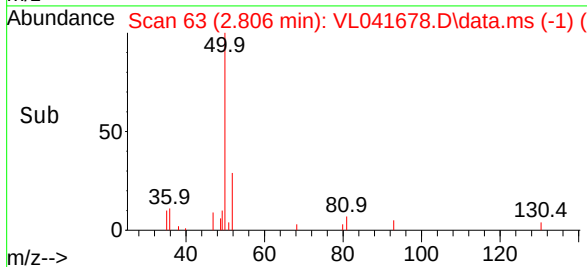
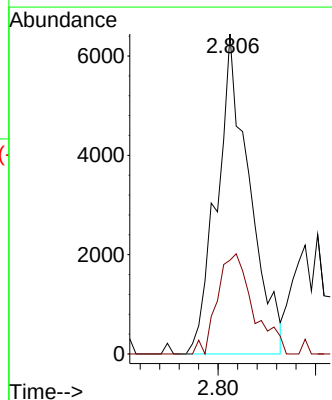
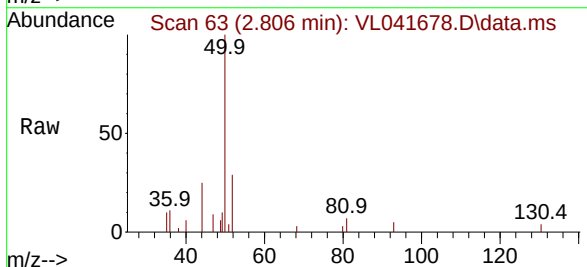
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.1

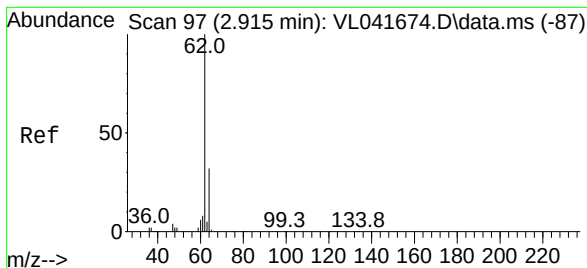
Tgt Ion: 51 Resp: 14728  
Ion Ratio Lower Upper  
51 100  
67 15.8 13.9 20.9



#4  
Chloromethane  
Concen: 0.096 ppbv  
RT: 2.806 min Scan# 63  
Delta R.T. -0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Tgt Ion: 50 Resp: 7476  
Ion Ratio Lower Upper  
50 100  
52 29.3 24.9 37.3

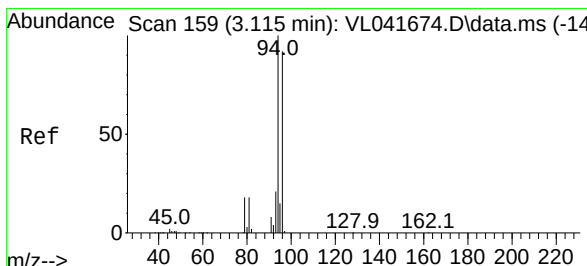
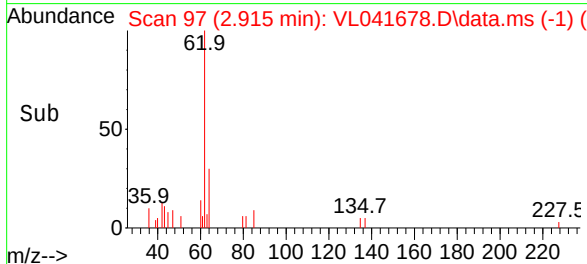
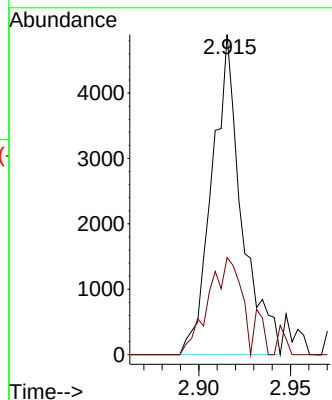
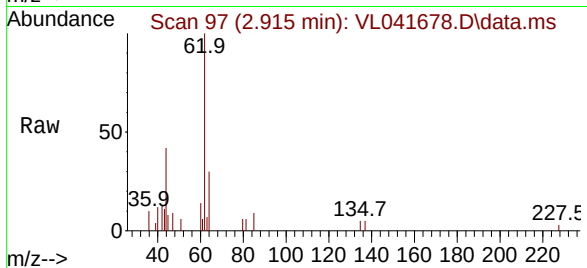




#5  
 Vinyl Chloride  
 Concen: 0.078 ppbv  
 RT: 2.915 min Scan# 91  
 Delta R.T. 0.000 min  
 Lab File: VL041678.D  
 Acq: 7 Nov 2024 12:52

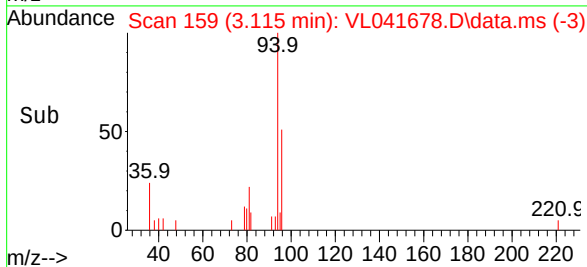
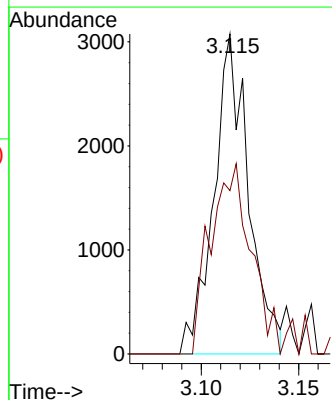
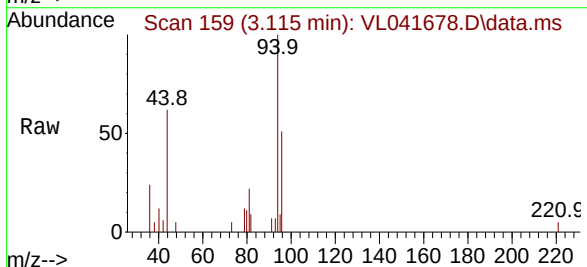
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

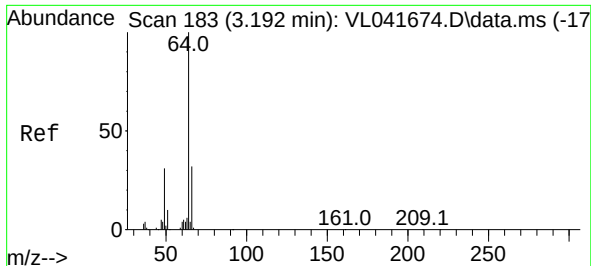
Tgt Ion: 62 Resp: 5503  
 Ion Ratio Lower Upper  
 62 100  
 64 30.4 25.4 38.2



#6  
 Bromomethane  
 Concen: 0.103 ppbv  
 RT: 3.115 min Scan# 159  
 Delta R.T. 0.000 min  
 Lab File: VL041678.D  
 Acq: 7 Nov 2024 12:52

Tgt Ion: 94 Resp: 3797  
 Ion Ratio Lower Upper  
 94 100  
 96 51.0 73.4 110.2#

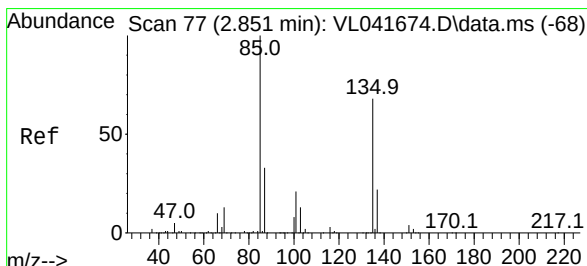
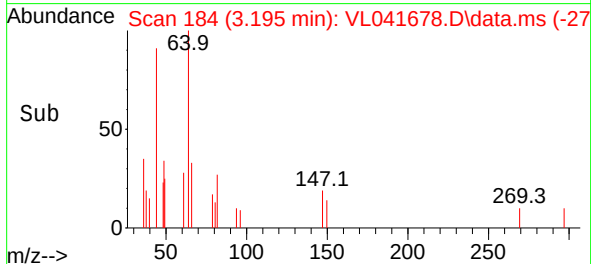
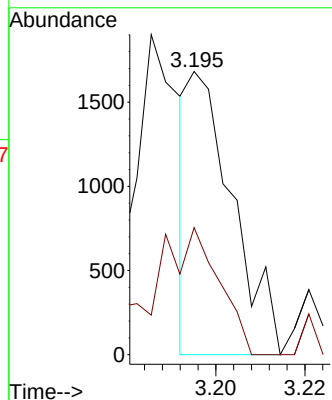
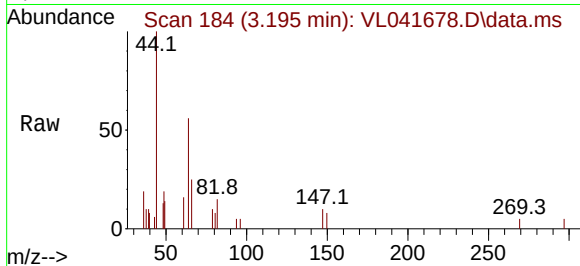




#7  
Chloroethane  
Concen: 0.045 ppbv  
RT: 3.195 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

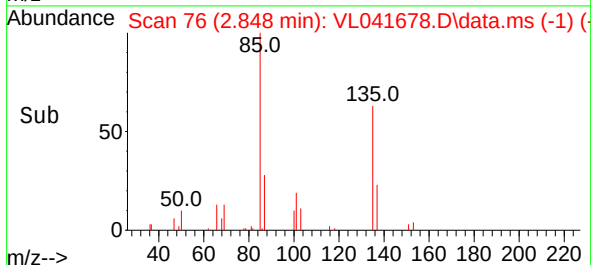
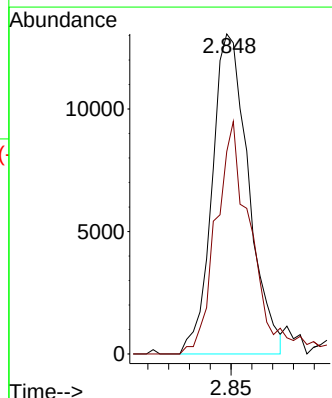
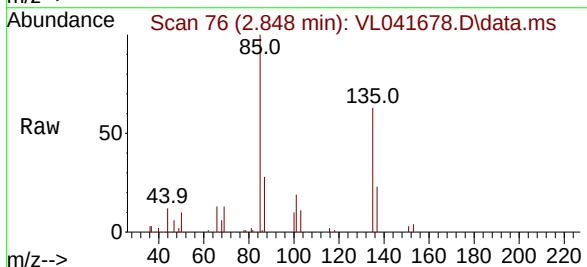
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

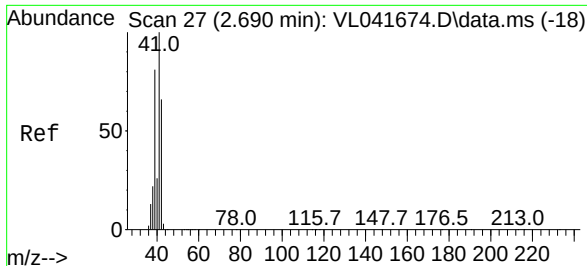
Tgt Ion: 64 Resp: 1157  
Ion Ratio Lower Upper  
64 100  
66 44.9 25.9 38.9#



#8  
Dichlorotetrafluoroethane  
Concen: 0.088 ppbv  
RT: 2.848 min Scan# 76  
Delta R.T. -0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Tgt Ion: 85 Resp: 15932  
Ion Ratio Lower Upper  
85 100  
135 73.0 55.5 83.3





#9

Propene

Concen: 0.131 ppbv

RT: 2.687 min Scan# 2

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

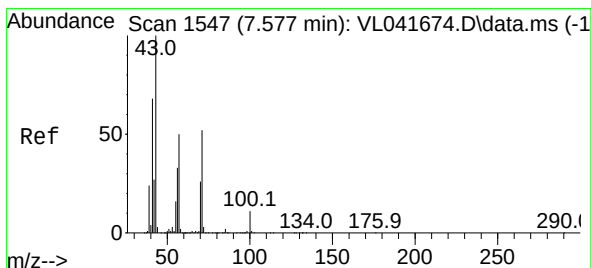
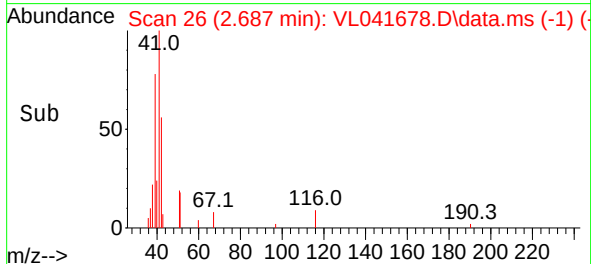
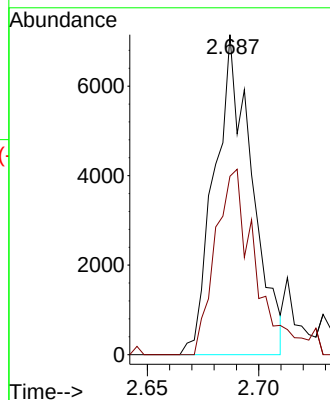
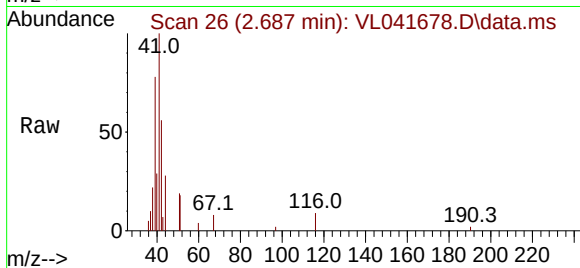
VSTDIC0.1

Tgt Ion: 41 Resp: 8339

Ion Ratio Lower Upper

41 100

42 63.8 55.0 82.4



#10

Heptane

Concen: 0.035 ppbv

RT: 7.578 min Scan# 1547

Delta R.T. 0.000 min

Lab File: VL041678.D

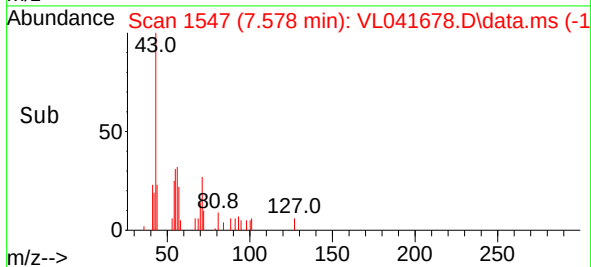
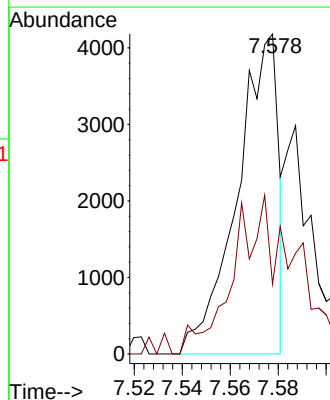
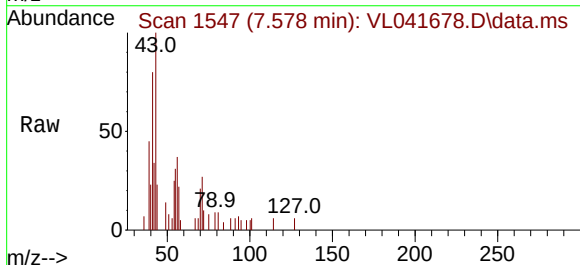
Acq: 7 Nov 2024 12:52

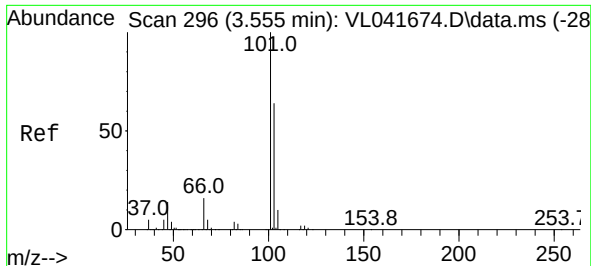
Tgt Ion: 43 Resp: 4990

Ion Ratio Lower Upper

43 100

57 76.1 40.0 60.0#





#11

Trichlorofluoromethane

Concen: 0.090 ppbv

RT: 3.552 min Scan# 296

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_L

ClientSampleId :

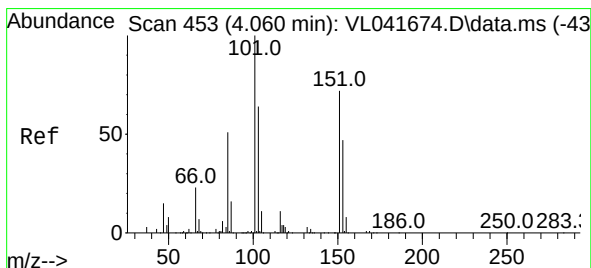
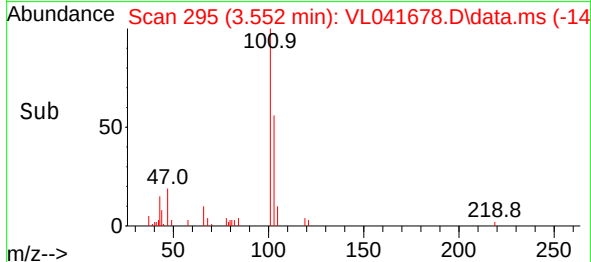
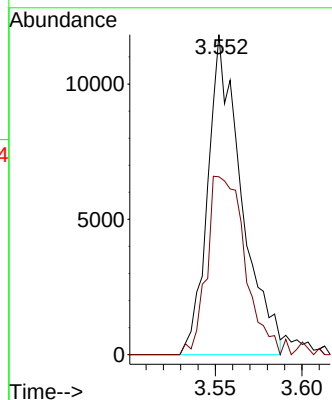
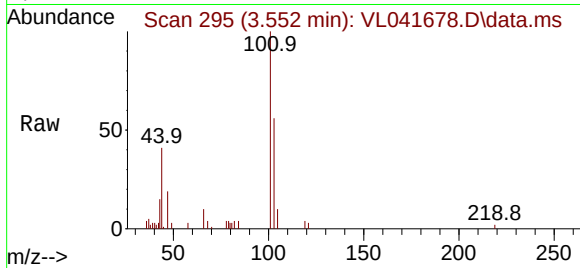
VSTDIC0.1

Tgt Ion:101 Resp: 15971

Ion Ratio Lower Upper

101 100

103 55.6 51.0 76.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.053 ppbv

RT: 4.060 min Scan# 453

Delta R.T. 0.000 min

Lab File: VL041678.D

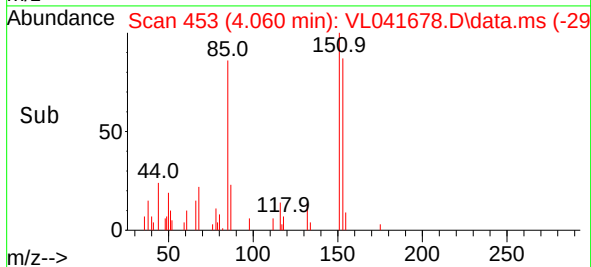
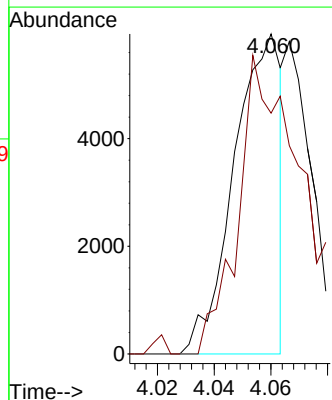
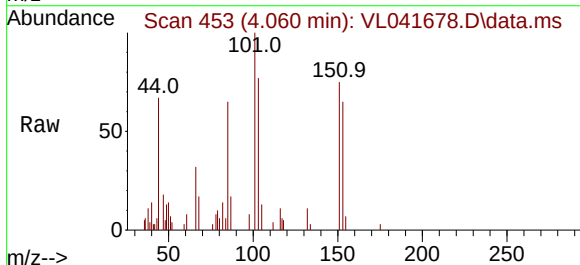
Acq: 7 Nov 2024 12:52

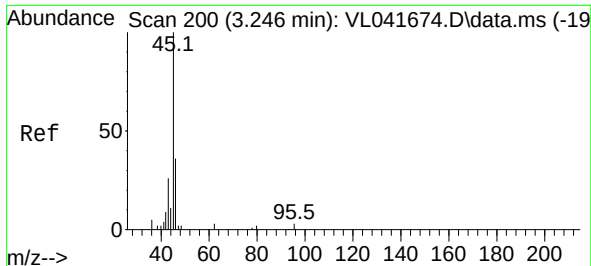
Tgt Ion:101 Resp: 6848

Ion Ratio Lower Upper

101 100

151 135.6 59.1 88.7#





#13

Ethanol

Concen: 0.051 ppbv

RT: 3.243 min Scan# 199

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

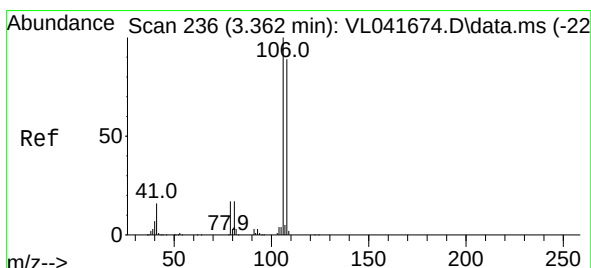
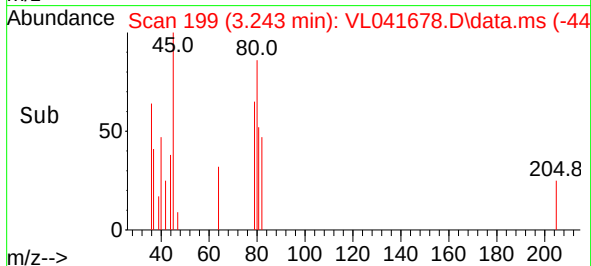
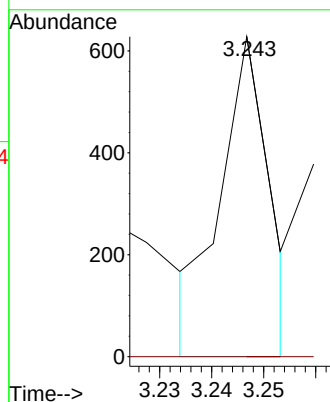
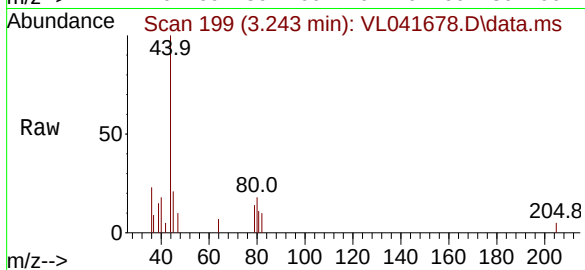
VSTDIC0.1

Tgt Ion: 45 Resp: 204

Ion Ratio Lower Upper

45 100

46 0.0 13.8 55.2#



#14

Bromoethene

Concen: 0.077 ppbv

RT: 3.362 min Scan# 236

Delta R.T. 0.000 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

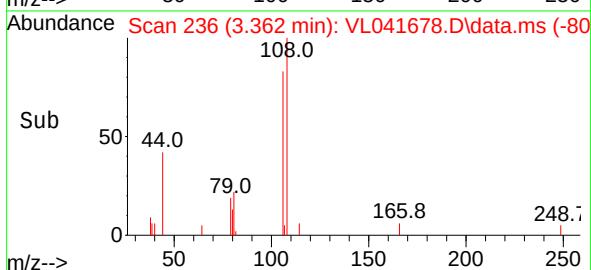
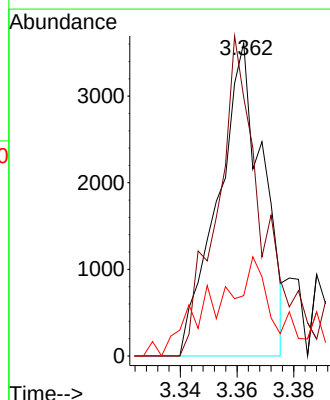
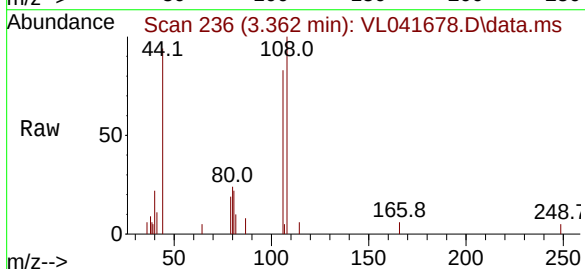
Tgt Ion: 108 Resp: 3969

Ion Ratio Lower Upper

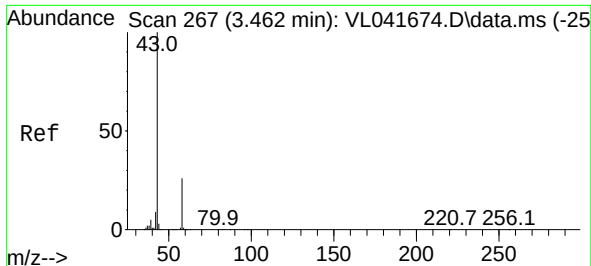
108 100

106 106.3 88.6 133.0

79 42.1 15.6 23.4#







#15

Acetone

Concen: 0.145 ppbv

RT: 3.488 min Scan# 21

Delta R.T. 0.026 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

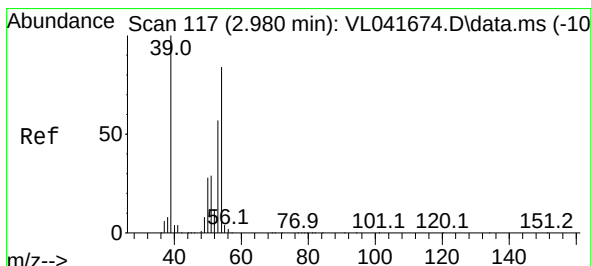
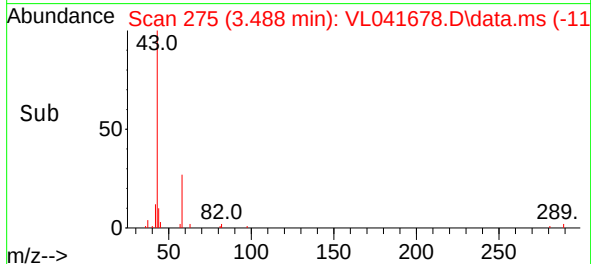
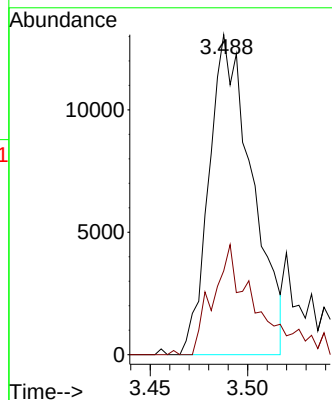
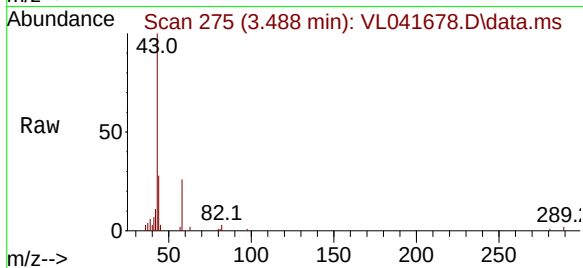
VSTDICC0.1

Tgt Ion: 43 Resp: 20040

Ion Ratio Lower Upper

43 100

58 36.4 21.4 32.0#



#16

1,3-Butadiene

Concen: 0.098 ppbv

RT: 2.980 min Scan# 117

Delta R.T. 0.000 min

Lab File: VL041678.D

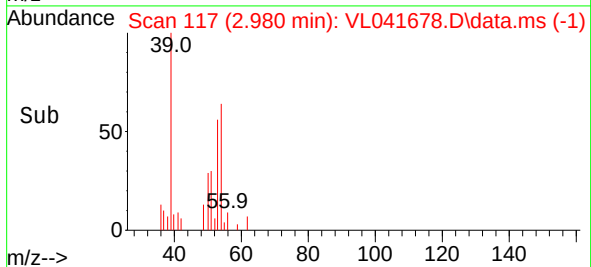
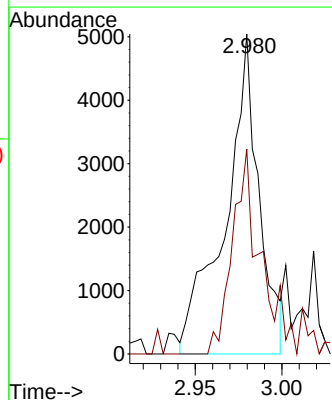
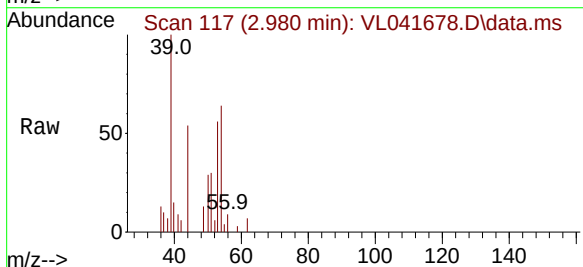
Acq: 7 Nov 2024 12:52

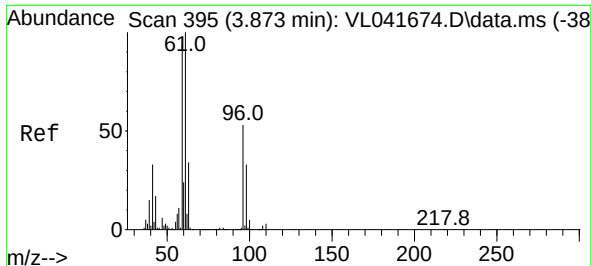
Tgt Ion: 39 Resp: 6807

Ion Ratio Lower Upper

39 100

54 58.5 61.3 91.9#

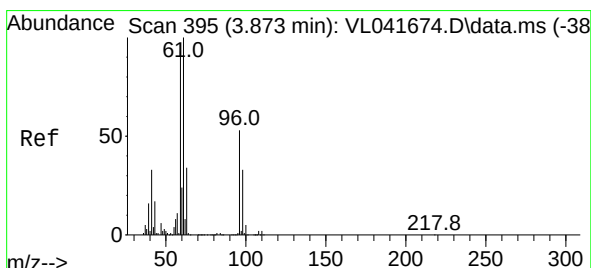
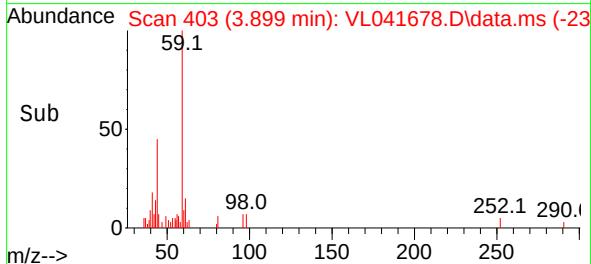
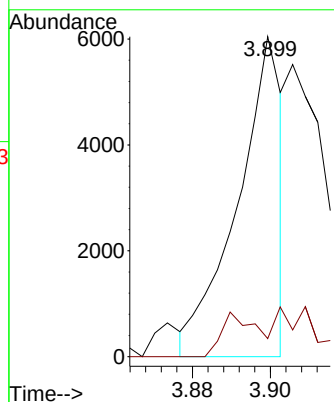
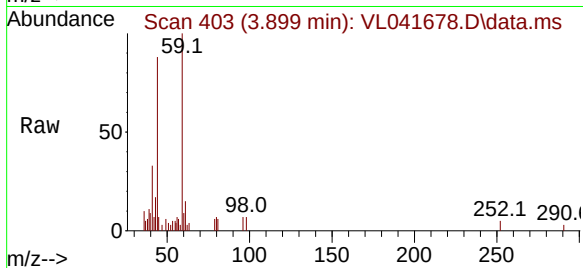




#17  
tert-Butyl alcohol  
Concen: 0.039 ppbv  
RT: 3.899 min Scan# 403  
Delta R.T. 0.026 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

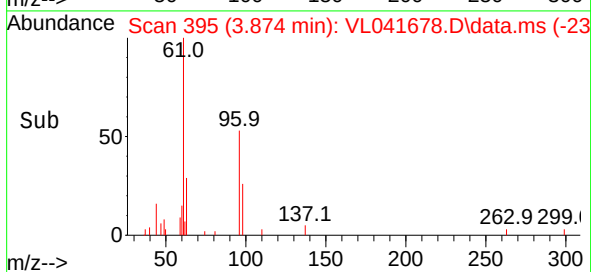
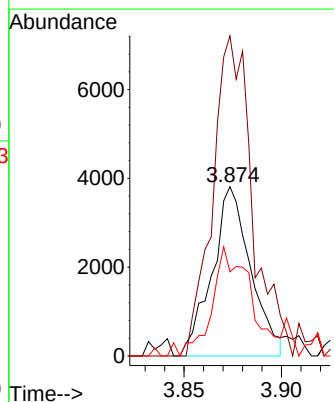
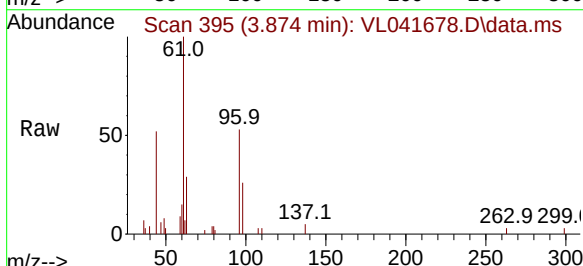
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

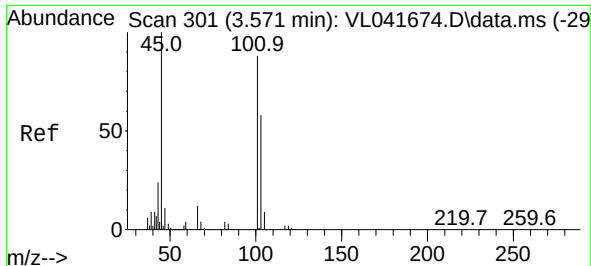
Tgt Ion: 59 Resp: 4770  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#



#18  
1,1-Dichloroethene  
Concen: 0.093 ppbv  
RT: 3.874 min Scan# 395  
Delta R.T. 0.000 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Tgt Ion: 96 Resp: 5246  
Ion Ratio Lower Upper  
96 100  
61 189.0 150.7 226.1  
98 49.7 49.4 74.2

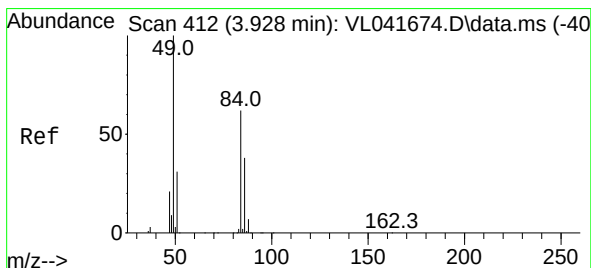
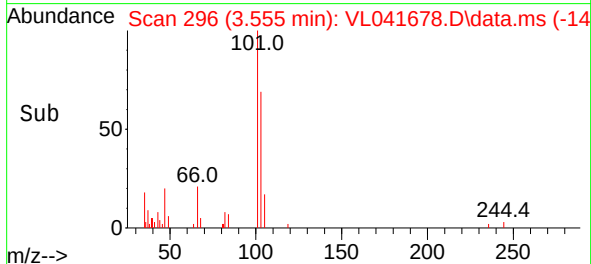
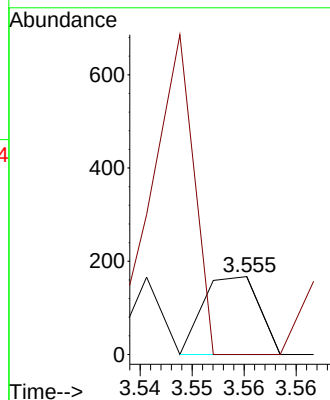
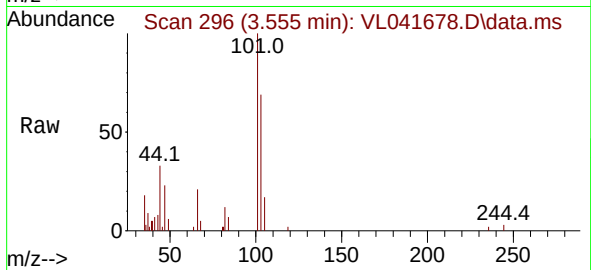




#19  
Isopropyl Alcohol  
Concen: 0.001 ppbv  
RT: 3.555 min Scan# 20  
Delta R.T. -0.016 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

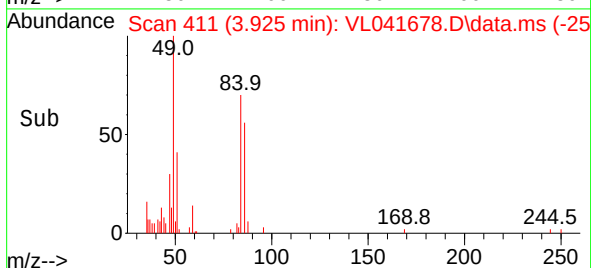
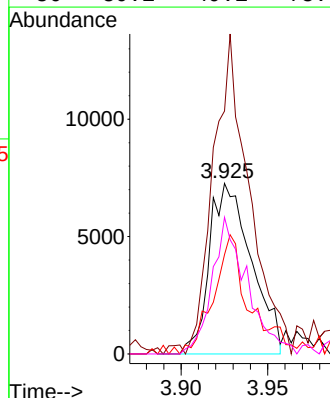
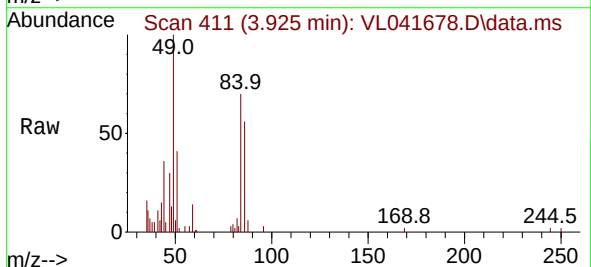
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

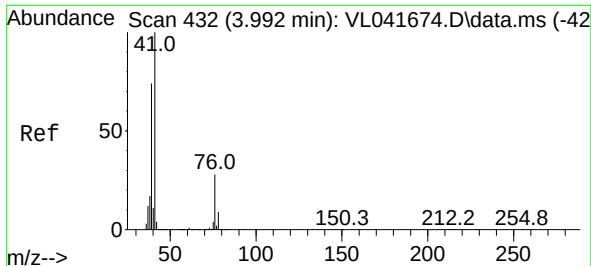
Tgt Ion: 45 Resp: 63  
Ion Ratio Lower Upper  
45 100  
58 0.0 2.5 3.7#



#20  
Methylene Chloride  
Concen: 0.241 ppbv  
RT: 3.925 min Scan# 411  
Delta R.T. -0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Tgt Ion: 84 Resp: 12266  
Ion Ratio Lower Upper  
84 100  
49 137.2 129.7 194.5  
51 58.2 39.8 59.6  
86 80.1 49.1 73.7#





#21

Allyl Chloride

Concen: 0.088 ppbv

RT: 3.993 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC0.1

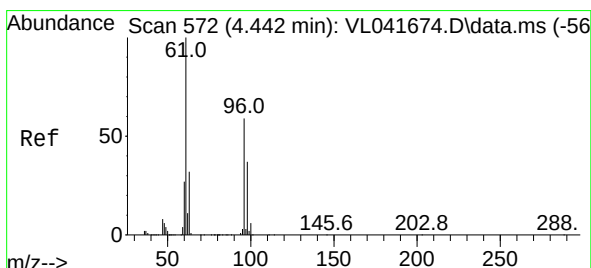
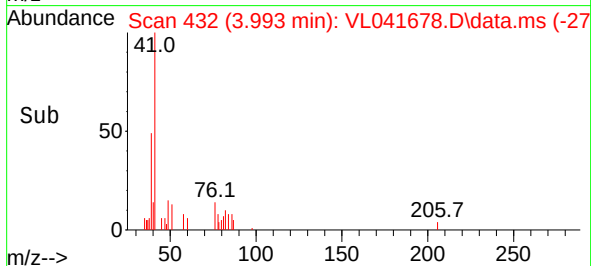
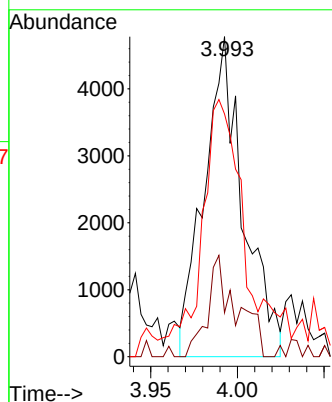
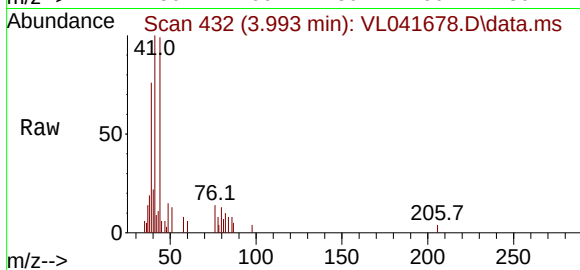
Tgt Ion: 41 Resp: 7496

Ion Ratio Lower Upper

41 100

76 26.0 23.5 35.3

39 101.7 63.0 94.4#



#22

trans-1,2-Dichloroethene

Concen: 0.041 ppbv

RT: 4.439 min Scan# 571

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

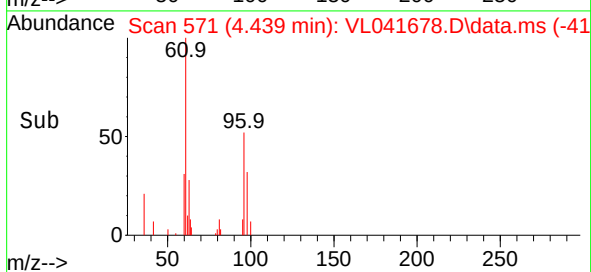
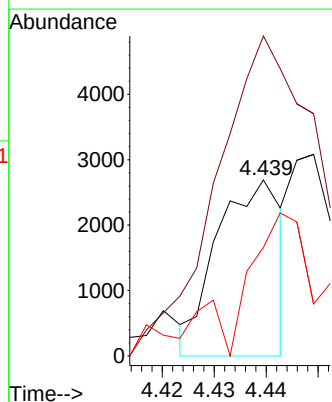
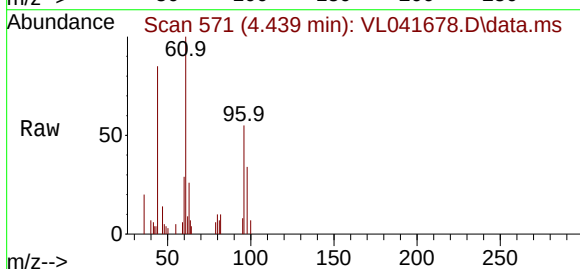
Tgt Ion: 96 Resp: 2308

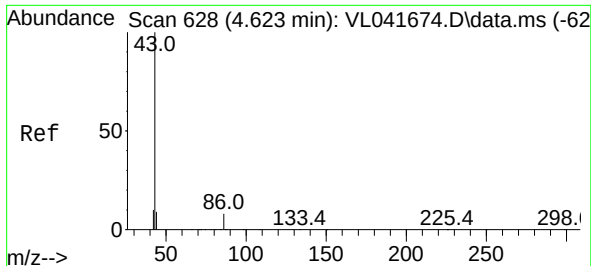
Ion Ratio Lower Upper

96 100

61 179.9 134.5 201.7

98 62.8 49.6 74.4

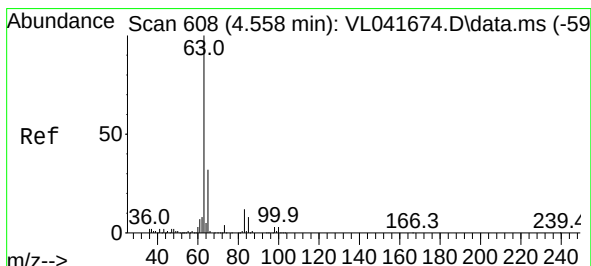
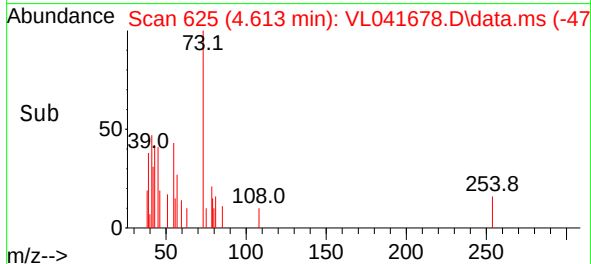
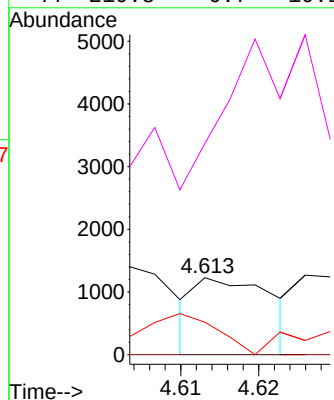
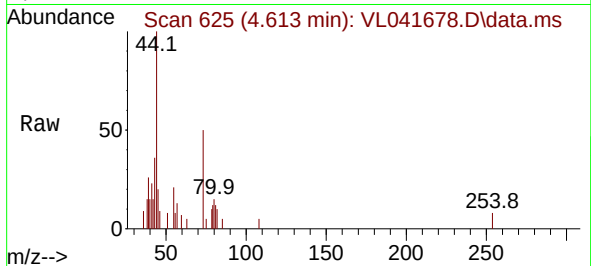




#23  
Vinyl Acetate  
Concen: 0.013 ppbv  
RT: 4.613 min Scan# 61  
Delta R.T. -0.009 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

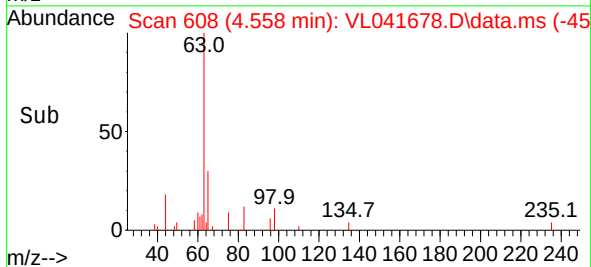
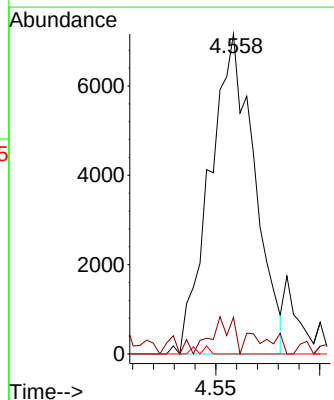
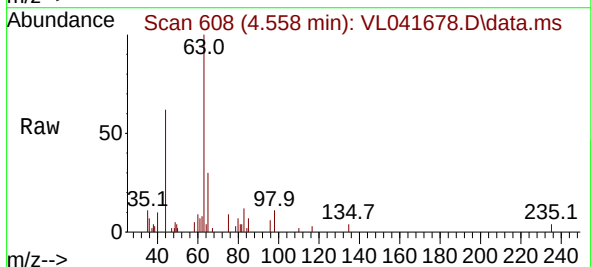
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

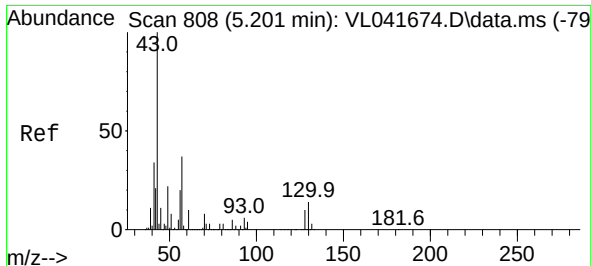
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 837   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 5.3   | 7.9#  |
| 42       | 45.0  | 8.5   | 12.7# |
| 44       | 210.8 | 6.7   | 10.1# |



#24  
1,1-Dichloroethane  
Concen: 0.085 ppbv  
RT: 4.558 min Scan# 608  
Delta R.T. 0.000 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 10607 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 11.4  | 1.8   | 5.4#  |
| 100      | 0.0   | 1.4   | 4.2#  |

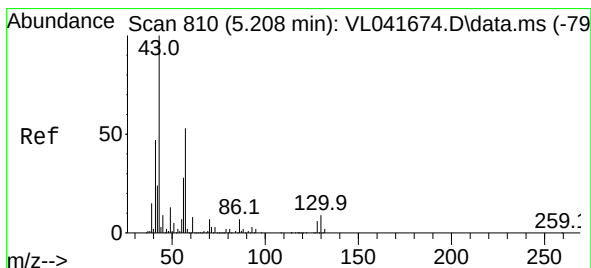
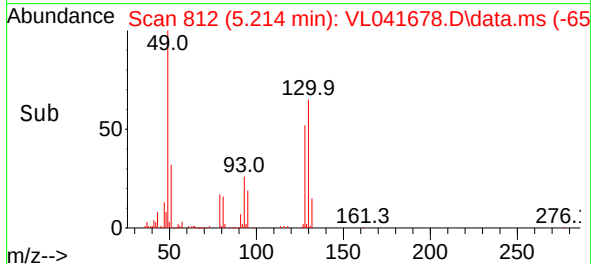
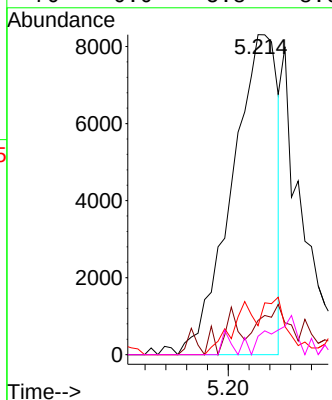
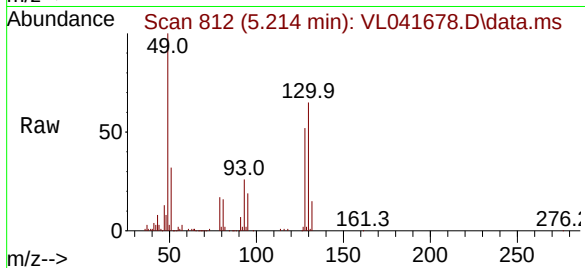




#25  
Ethyl Acetate  
Concen: 0.044 ppbv  
RT: 5.214 min Scan# 812  
Delta R.T. 0.013 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

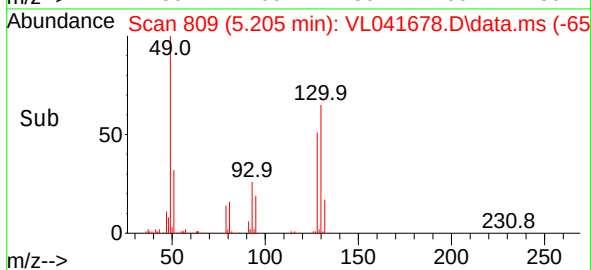
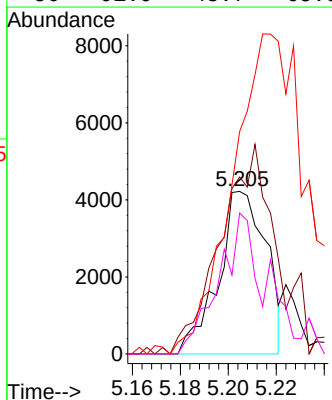
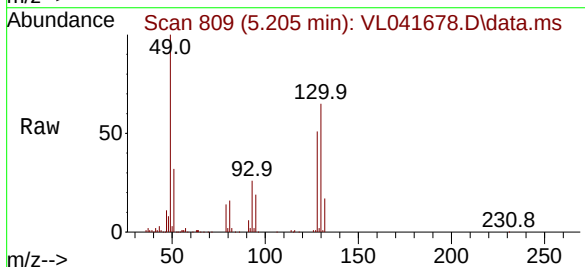
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

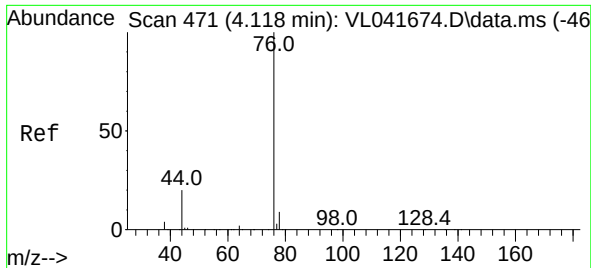
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 12615 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 0.0   | 8.6   | 13.0# |
| 61       | 2.0   | 8.4   | 12.6# |
| 70       | 0.0   | 5.8   | 8.6#  |



#26  
Hexane  
Concen: 0.053 ppbv  
RT: 5.205 min Scan# 809  
Delta R.T. -0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 5831   |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 166.4 | 76.1  | 114.1# |
| 43       | 351.6 | 207.0 | 310.6# |
| 56       | 91.9  | 43.7  | 65.5#  |

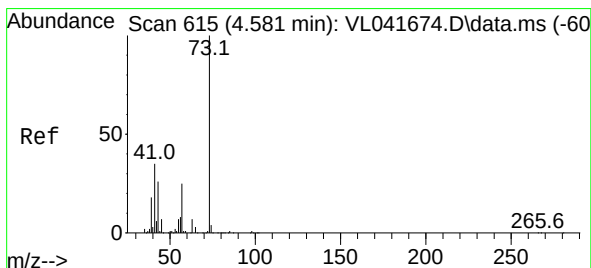
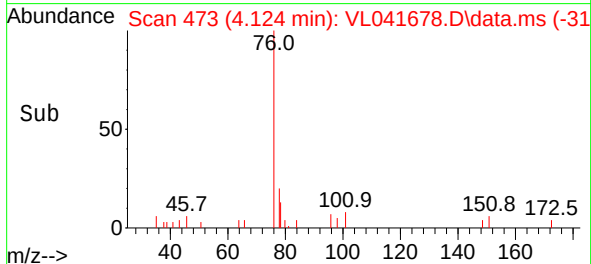
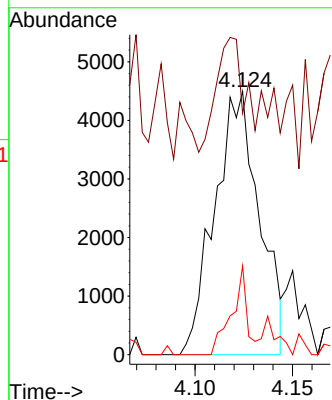
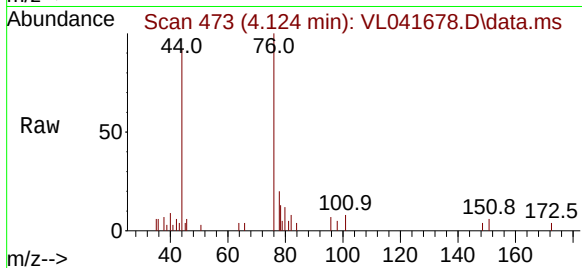




#27  
Carbon Disulfide  
Concen: 0.058 ppbv  
RT: 4.124 min Scan# 41  
Delta R.T. 0.007 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

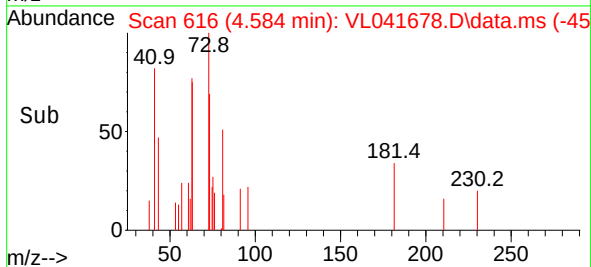
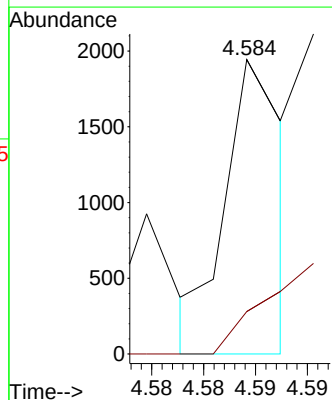
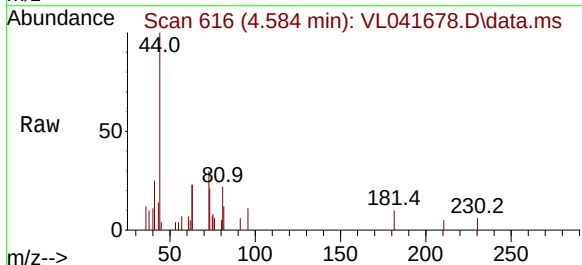
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

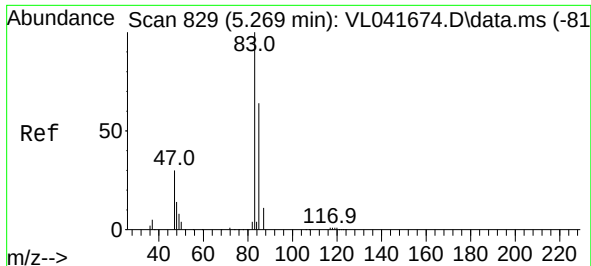
Tgt Ion: 76 Resp: 7166  
Ion Ratio Lower Upper  
76 100  
44 89.2 15.8 23.8#  
78 17.5 7.5 11.3#



#28  
Methyl tert-Butyl Ether  
Concen: 0.011 ppbv  
RT: 4.584 min Scan# 616  
Delta R.T. 0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Tgt Ion: 73 Resp: 768  
Ion Ratio Lower Upper  
73 100  
57 0.0 19.6 29.4#





#29

Chloroform

Concen: 0.086 ppbv

RT: 5.266 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

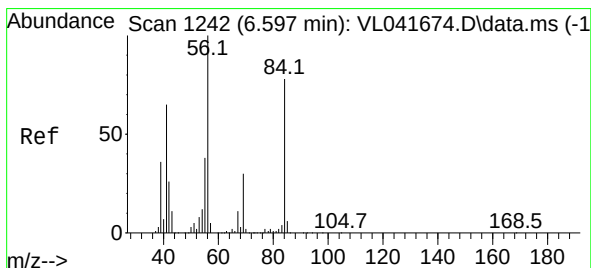
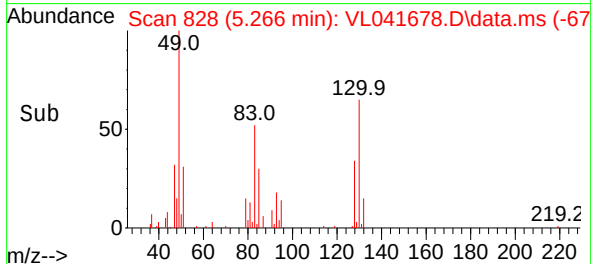
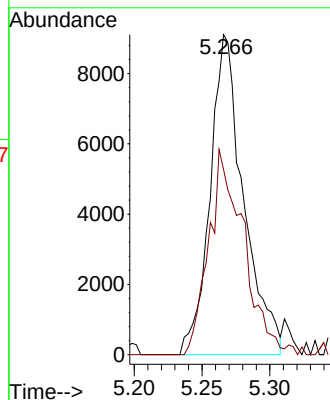
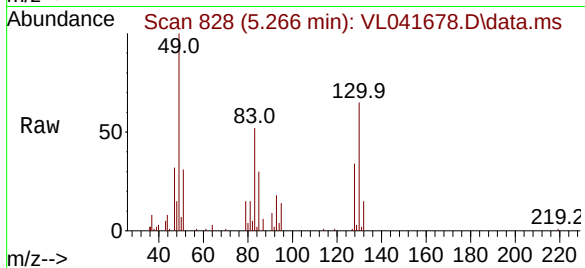
VSTDIC0.1

Tgt Ion: 83 Resp: 15654

Ion Ratio Lower Upper

83 100

85 57.9 51.1 76.7



#30

Cyclohexane

Concen: 0.018 ppbv

RT: 6.594 min Scan# 1241

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

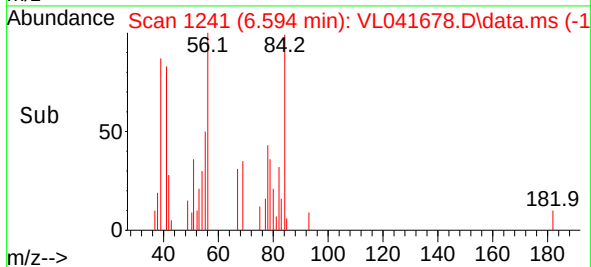
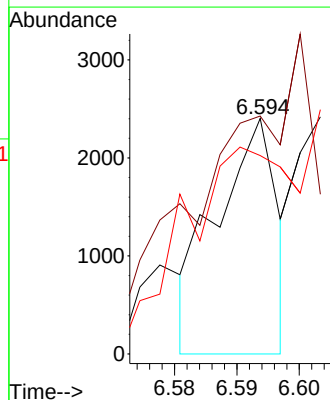
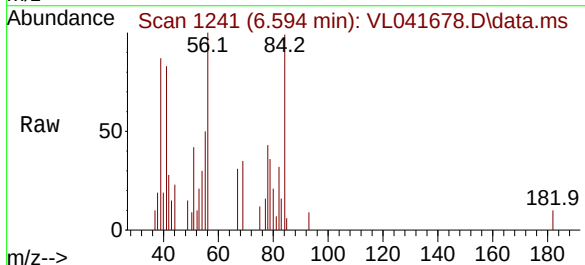
Tgt Ion: 84 Resp: 1619

Ion Ratio Lower Upper

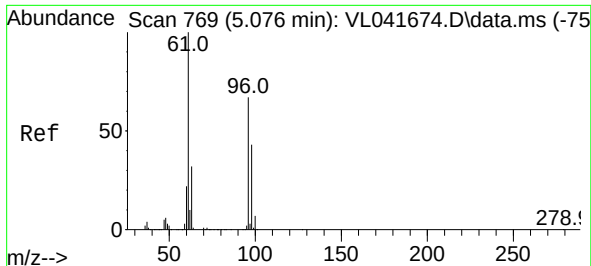
84 100

56 0.0 110.8 166.2#

41 0.0 70.0 105.0#



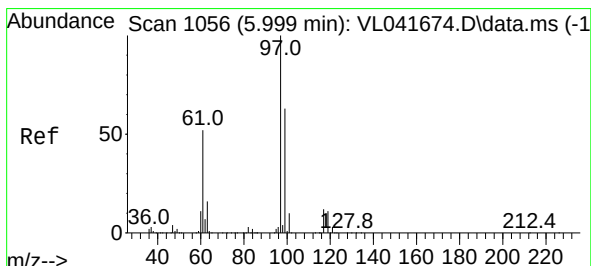
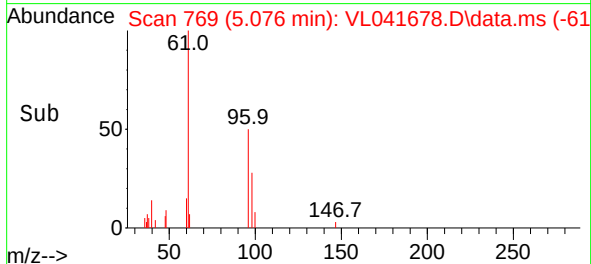
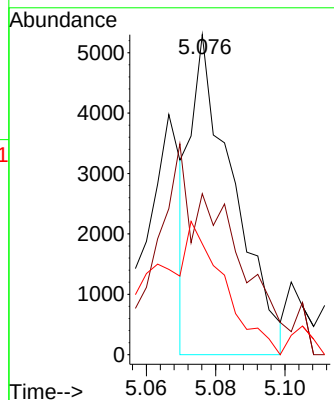
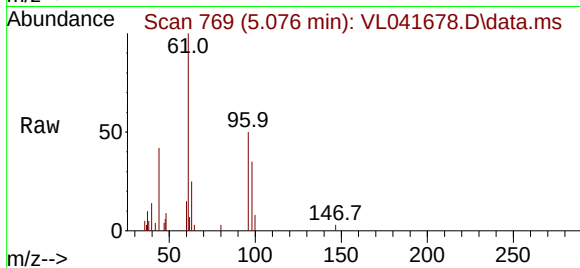




#31  
cis-1,2-Dichloroethene  
Concen: 0.043 ppbv  
RT: 5.076 min Scan# 769  
Delta R.T. 0.000 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

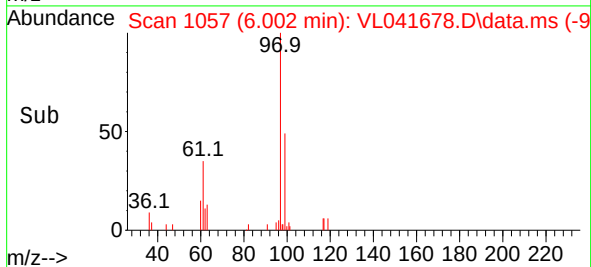
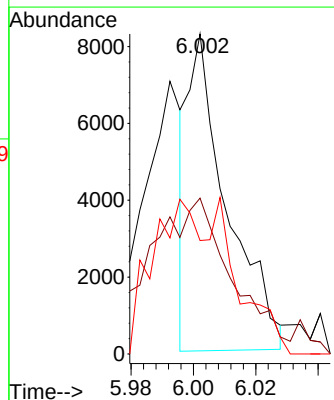
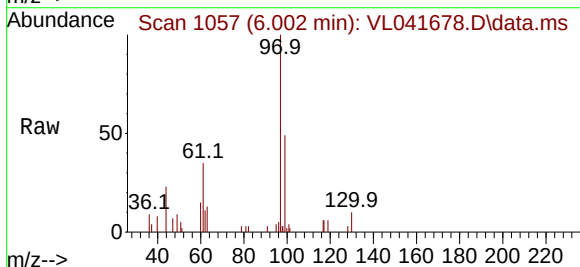
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

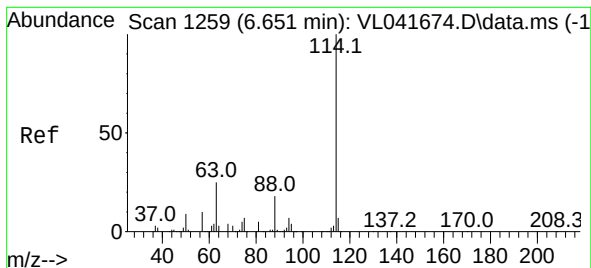
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 61    | Resp: | 4534  |
| Ion      | Ratio | Lower | Upper |
| 61       | 100   |       |       |
| 96       | 43.4  | 53.4  | 80.2# |
| 98       | 37.4  | 34.0  | 51.0  |



#32  
1,1,1-Trichloroethane  
Concen: 0.043 ppbv  
RT: 6.002 min Scan# 1057  
Delta R.T. 0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 7181  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 118.7 | 51.4  | 77.2# |
| 61       | 103.6 | 41.7  | 62.5# |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC0.1

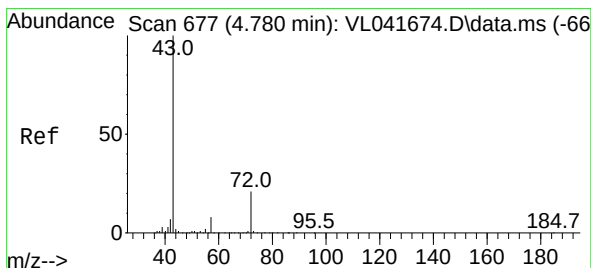
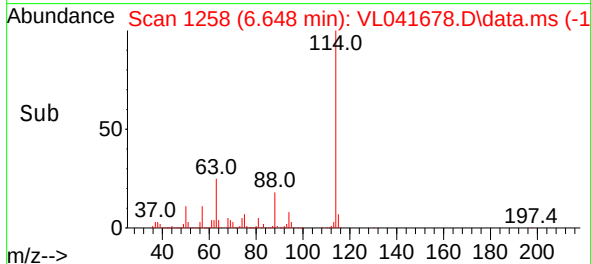
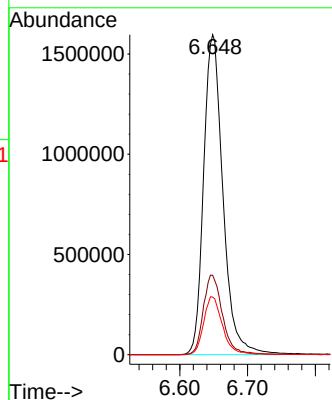
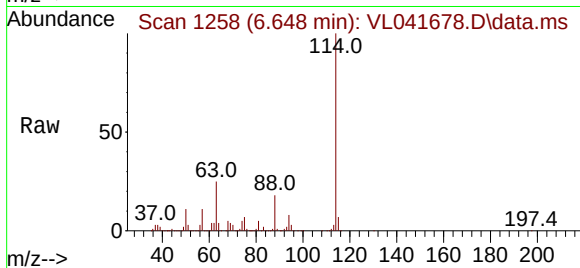
Tgt Ion:114 Resp: 3159589

Ion Ratio Lower Upper

114 100

63 25.0 20.3 30.5

88 17.8 14.2 21.4



#34

2-Butanone

Concen: 0.014 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.013 min

Lab File: VL041678.D

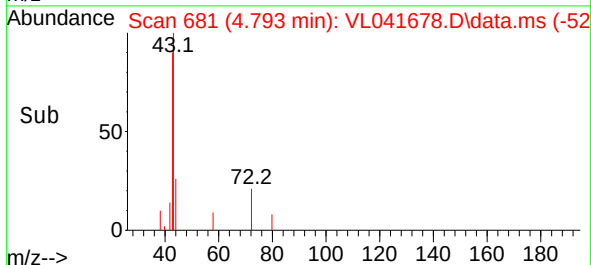
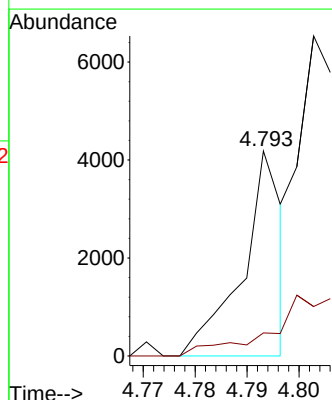
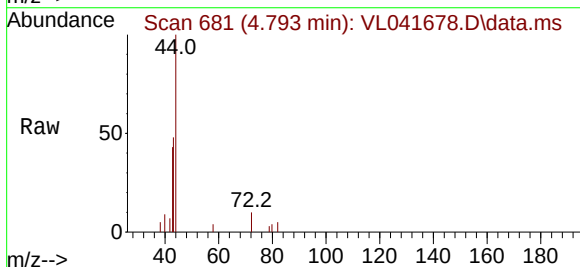
Acq: 7 Nov 2024 12:52

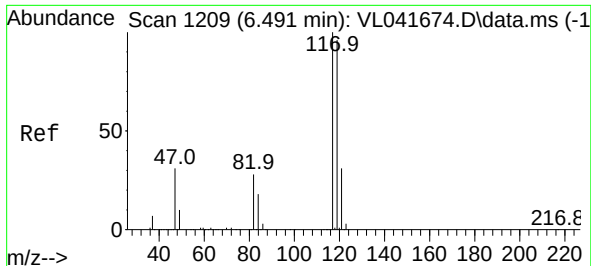
Tgt Ion: 43 Resp: 2207

Ion Ratio Lower Upper

43 100

72 0.0 17.4 26.0#





#35

Carbon Tetrachloride

Concen: 0.044 ppbv

RT: 6.488 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

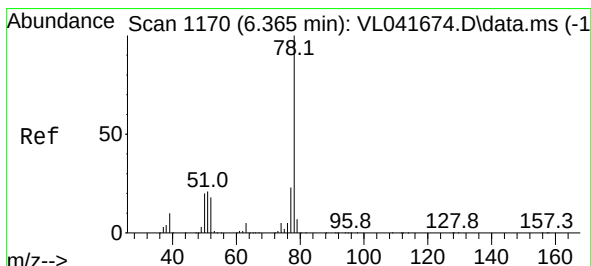
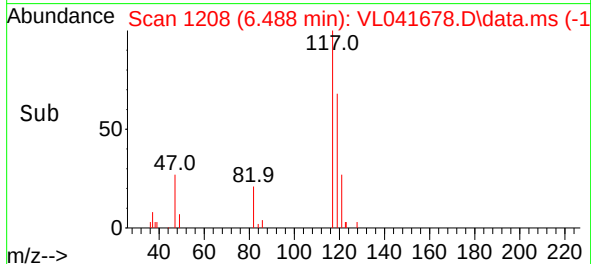
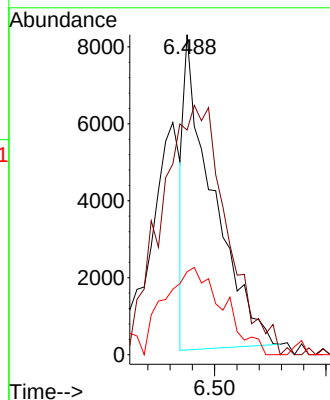
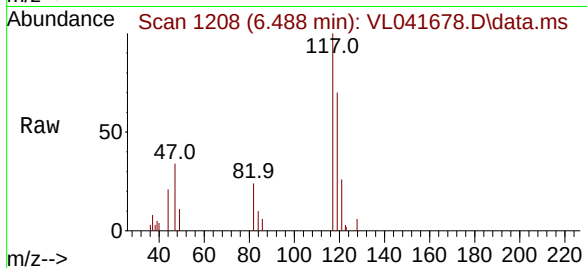
Tgt Ion:117 Resp: 7302

Ion Ratio Lower Upper

117 100

119 72.6 77.2 115.8#

121 26.8 25.0 37.4



#36

Benzene

Concen: 0.032 ppbv

RT: 6.362 min Scan# 1169

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

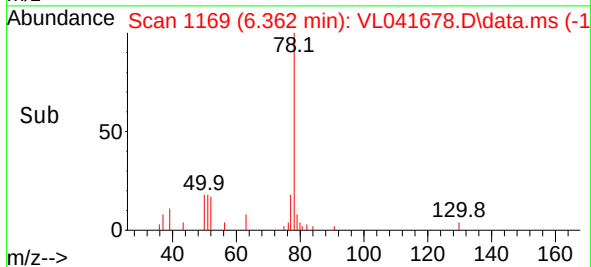
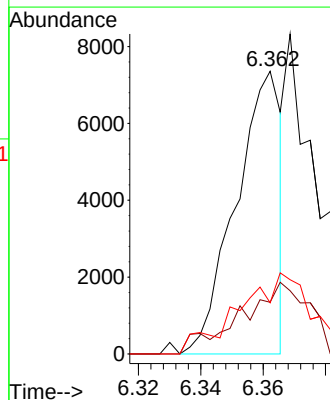
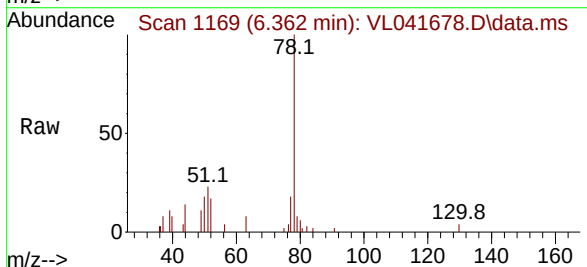
Tgt Ion: 78 Resp: 7427

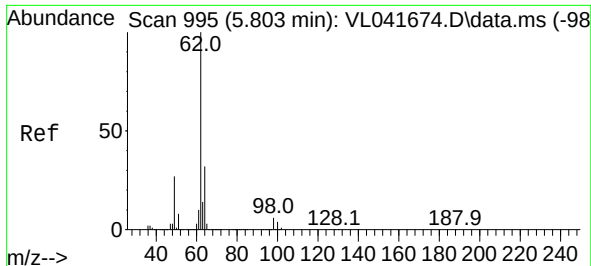
Ion Ratio Lower Upper

78 100

77 18.3 18.5 27.7#

50 18.1 15.6 23.4

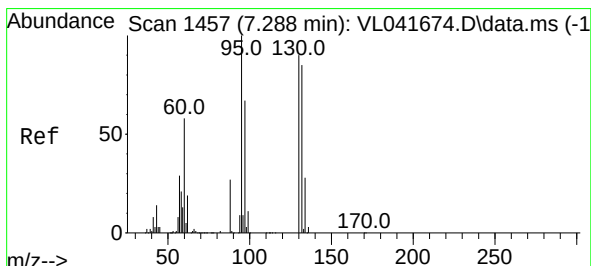
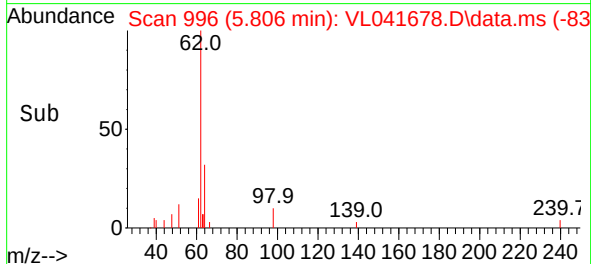
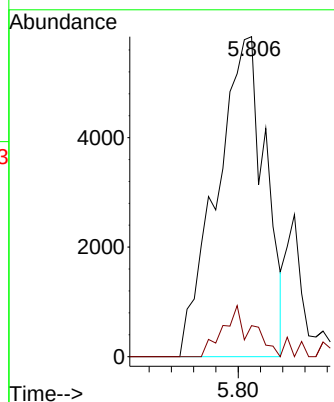
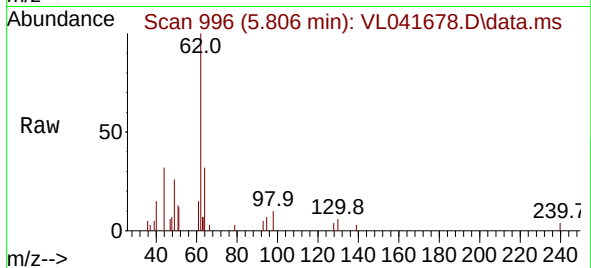




#37  
1,2-Dichloroethane  
Concen: 0.067 ppbv  
RT: 5.806 min Scan# 995  
Delta R.T. 0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

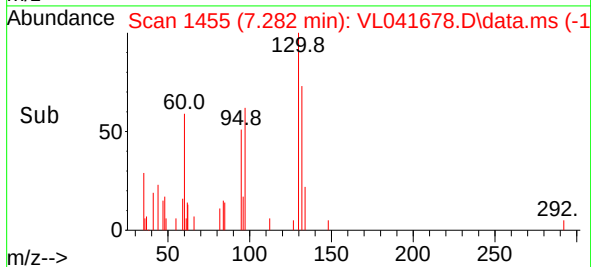
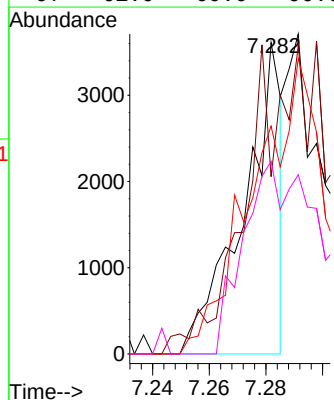
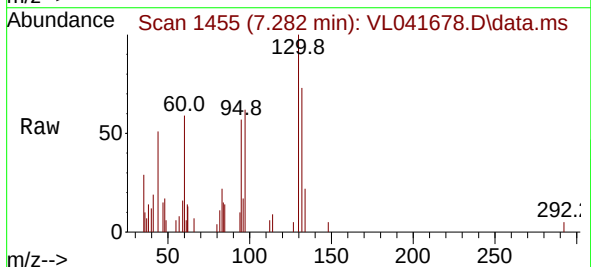
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

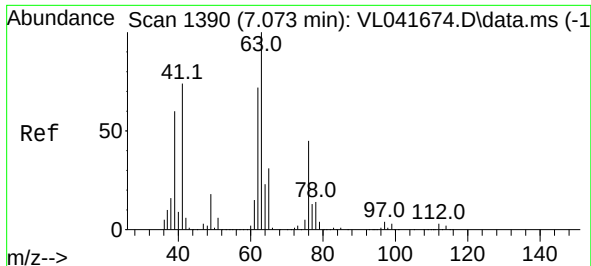
Tgt Ion: 62 Resp: 8849  
Ion Ratio Lower Upper  
62 100  
98 12.0 5.2 7.8#



#38  
Trichloroethene  
Concen: 0.037 ppbv  
RT: 7.282 min Scan# 1455  
Delta R.T. -0.006 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Tgt Ion:130 Resp: 3343  
Ion Ratio Lower Upper  
130 100  
95 50.5 89.1 133.7#  
132 73.2 75.7 113.5#  
97 61.9 60.0 90.0





#39

1,2-Dichloropropane

Concen: 8.383 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.427 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC0.1

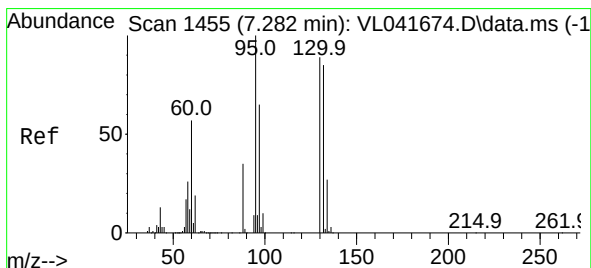
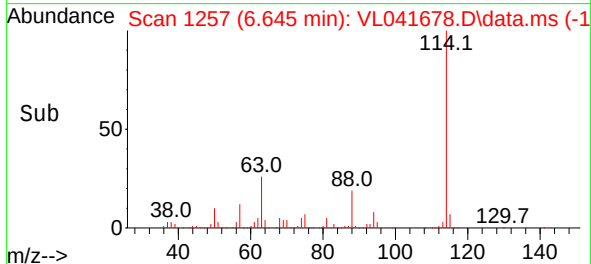
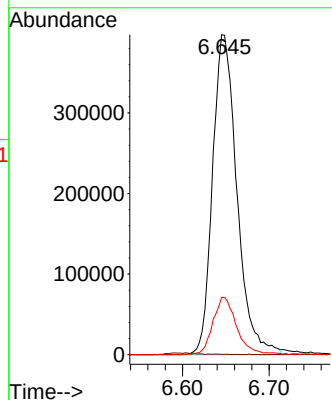
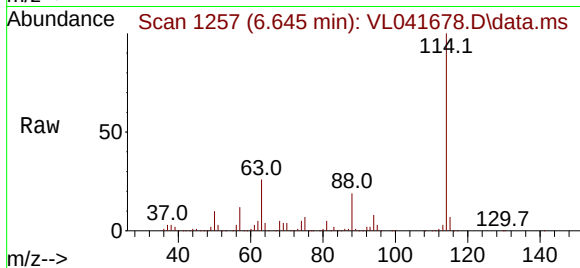
Tgt Ion: 63 Resp: 775538

Ion Ratio Lower Upper

63 100

41 0.1 59.1 88.7#

62 17.9 57.7 86.5#



#40

1,4-Dioxane

Concen: 0.001 ppbv

RT: 7.275 min Scan# 1453

Delta R.T. -0.006 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Tgt Ion: 88 Resp: 38

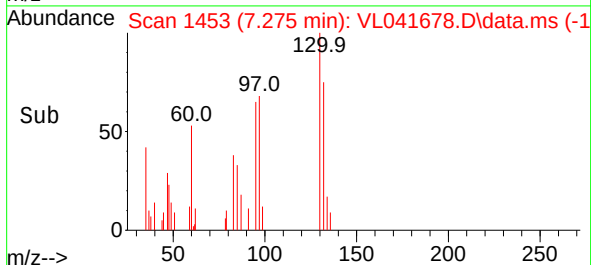
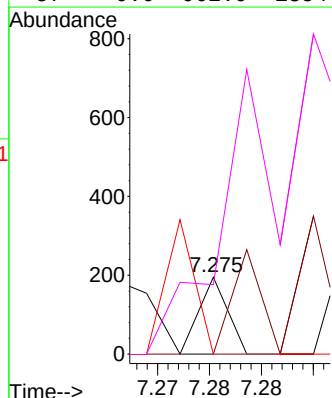
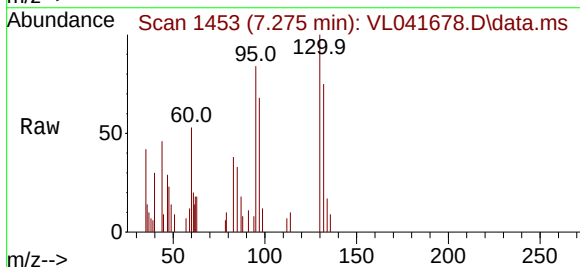
Ion Ratio Lower Upper

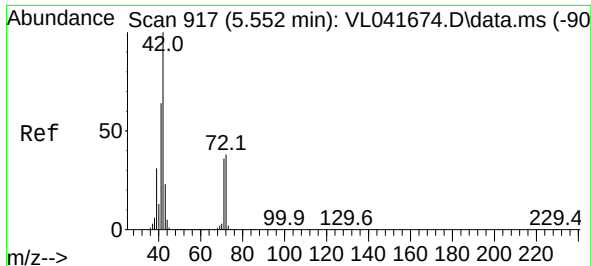
88 100

58 0.0 101.4 152.2#

43 0.0 208.0 312.0#

57 0.0 902.9 1354.3#





#41

Tetrahydrofuran

Concen: 0.029 ppbv

RT: 5.587 min Scan# 917

Delta R.T. 0.036 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

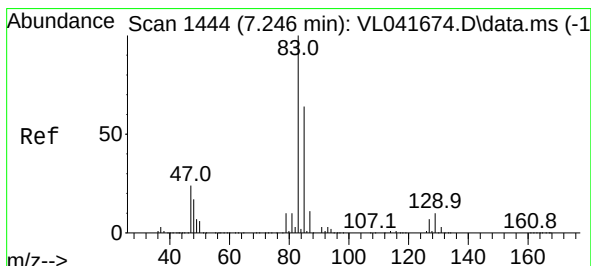
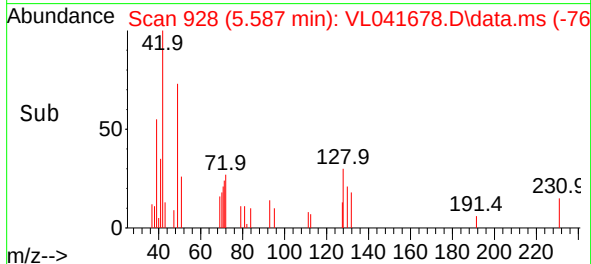
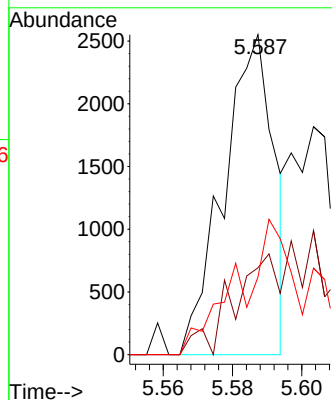
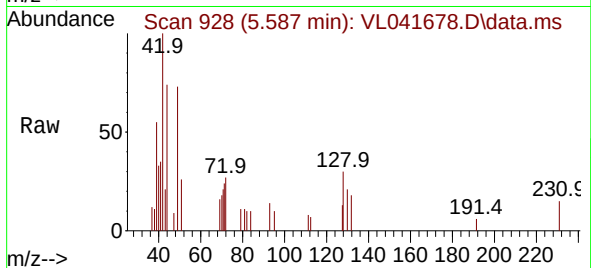
Tgt Ion: 42 Resp: 2579

Ion Ratio Lower Upper

42 100

72 0.0 29.8 44.6#

71 56.5 29.4 44.2#



#42

Bromodichloromethane

Concen: 0.044 ppbv

RT: 7.246 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

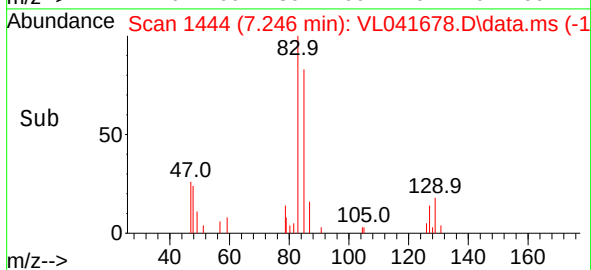
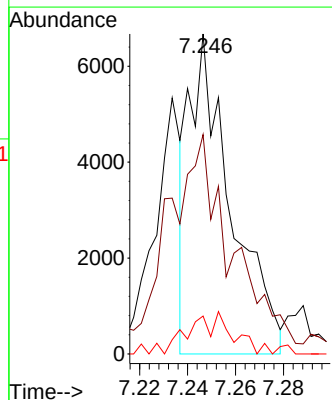
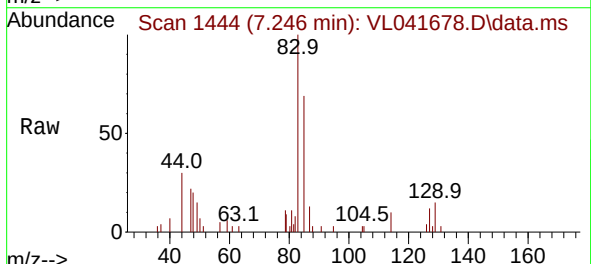
Tgt Ion: 83 Resp: 8093

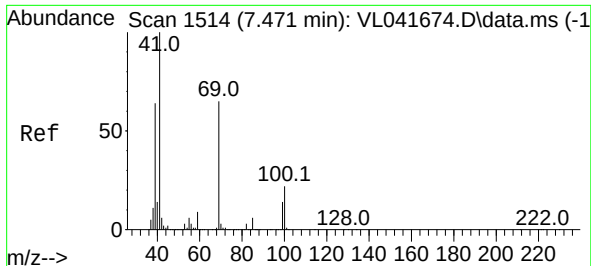
Ion Ratio Lower Upper

83 100

85 60.9 51.2 76.8

127 10.3 6.0 9.0#





#43

Methyl Methacrylate

Concen: 0.006 ppbv

RT: 7.468 min Scan# 1513

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC0.1

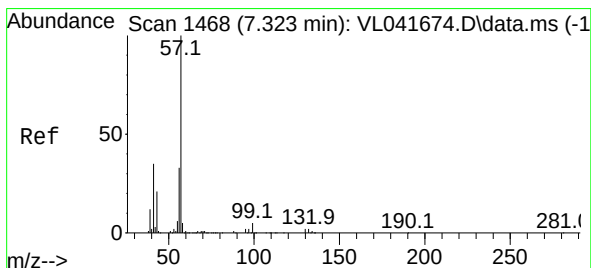
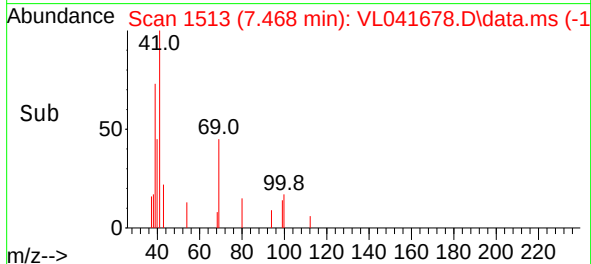
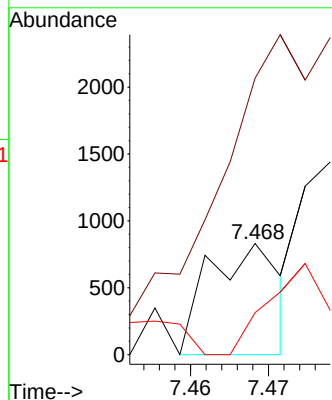
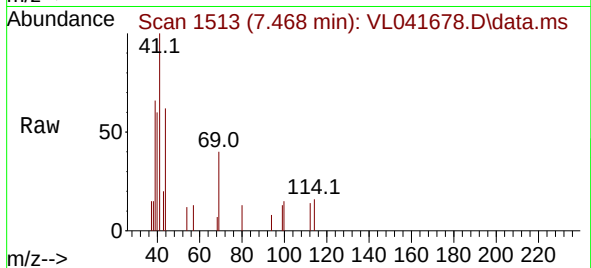
Tgt Ion: 69 Resp: 525

Ion Ratio Lower Upper

69 100

41 0.0 119.8 179.6#

100 0.0 27.3 40.9#



#44

2,2,4-Trimethylpentane

Concen: 0.007 ppbv

RT: 7.320 min Scan# 1467

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

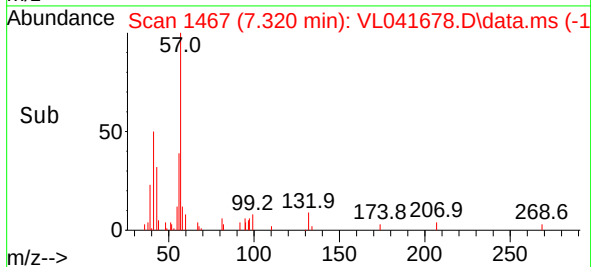
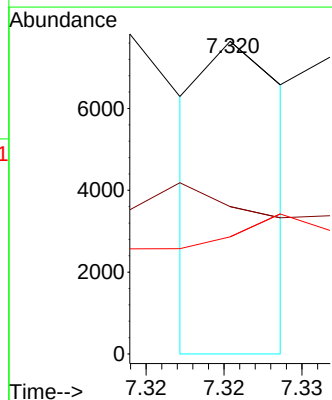
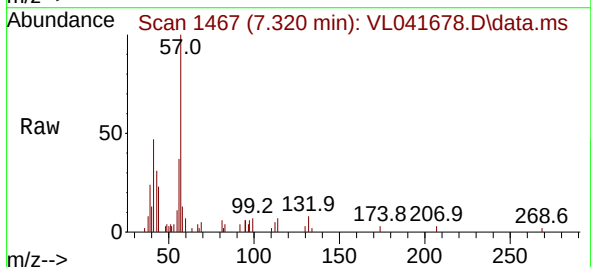
Tgt Ion: 57 Resp: 2744

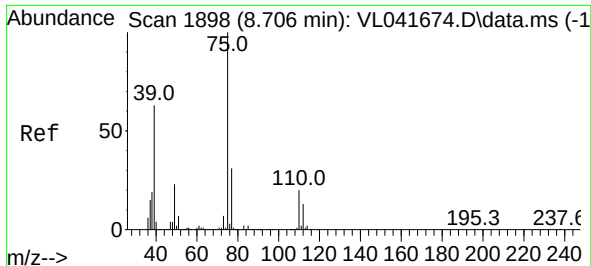
Ion Ratio Lower Upper

57 100

41 371.7 27.0 40.6#

56 0.0 25.8 38.6#





#45

t-1,3-Dichloropropene

Concen: 0.007 ppbv

RT: 8.693 min Scan# 11

Delta R.T. -0.013 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_L

ClientSampleId :

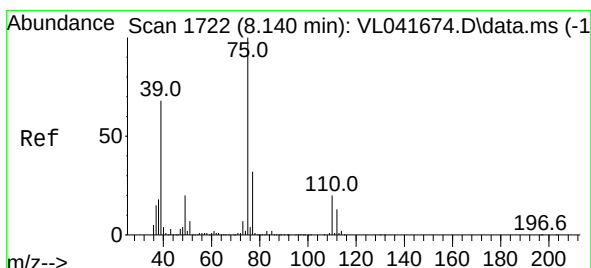
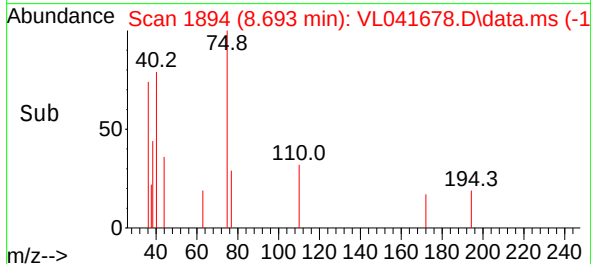
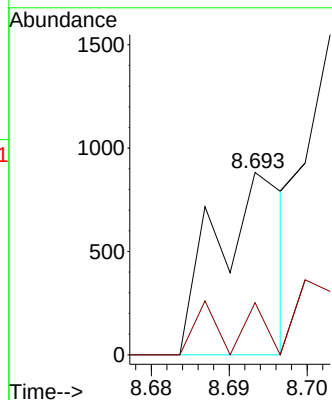
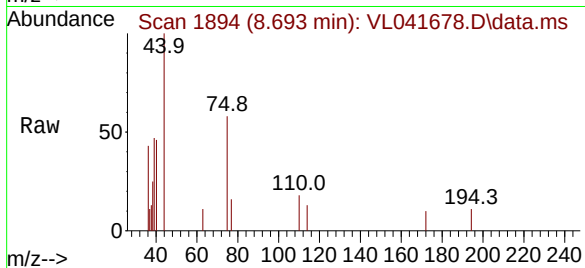
VSTDIC0.1

Tgt Ion: 75 Resp: 538

Ion Ratio Lower Upper

75 100

77 28.6 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 0.010 ppbv

RT: 8.140 min Scan# 1722

Delta R.T. 0.000 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

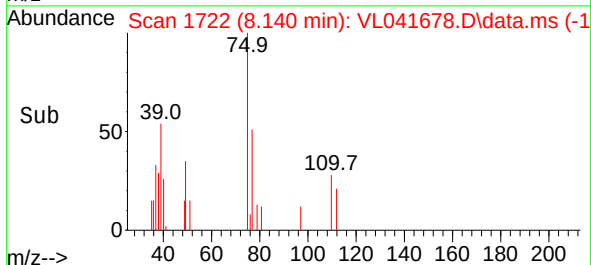
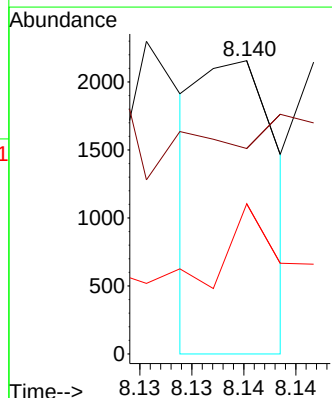
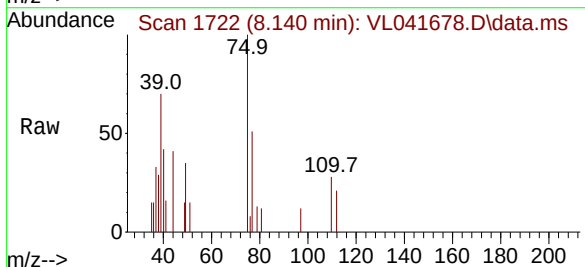
Tgt Ion: 75 Resp: 1104

Ion Ratio Lower Upper

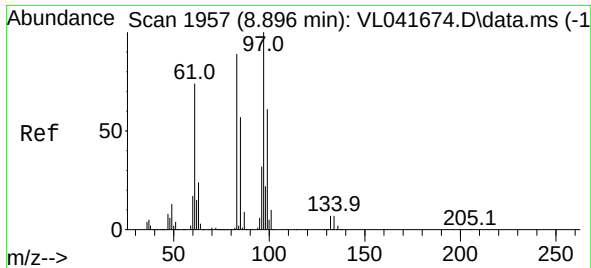
75 100

39 0.0 54.1 81.1#

77 69.4 25.3 37.9#







#47

1,1,2-Trichloroethane

Concen: 0.030 ppbv

RT: 8.889 min Scan# 1955

Delta R.T. -0.006 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 97 Resp: 2963

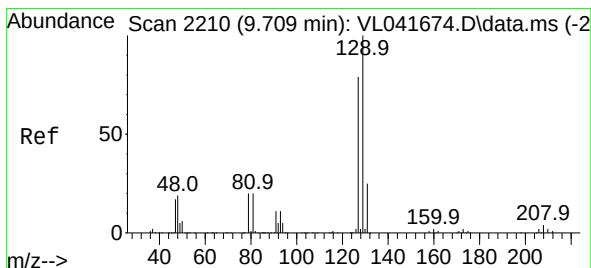
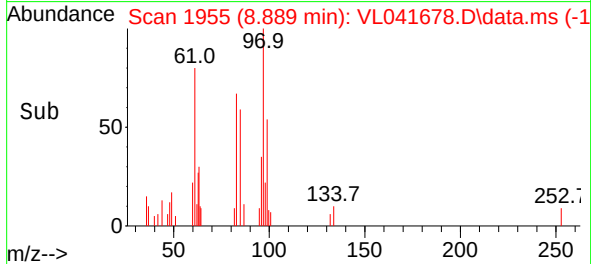
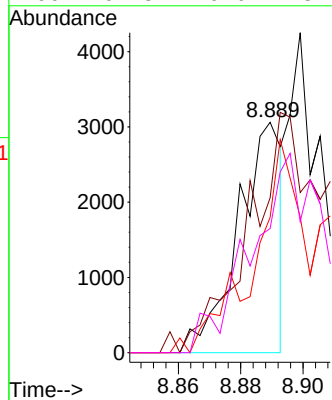
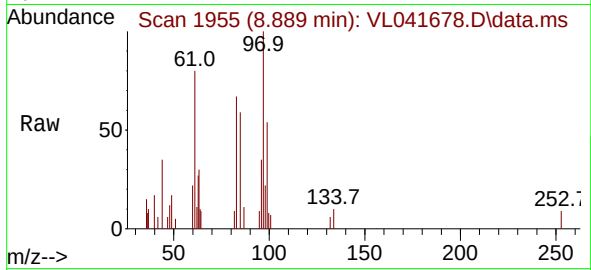
Ion Ratio Lower Upper

97 100

83 67.2 71.0 106.6#

85 52.4 45.4 68.2

99 62.3 49.0 73.6



#48

Dibromochloromethane

Concen: 0.008 ppbv

RT: 9.706 min Scan# 2209

Delta R.T. -0.003 min

Lab File: VL041678.D

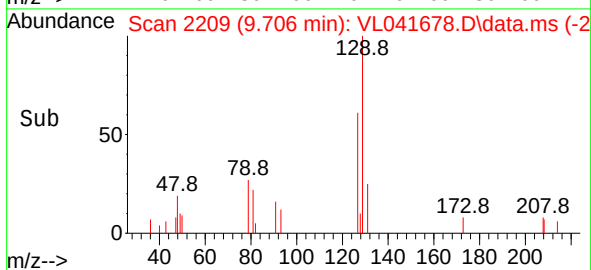
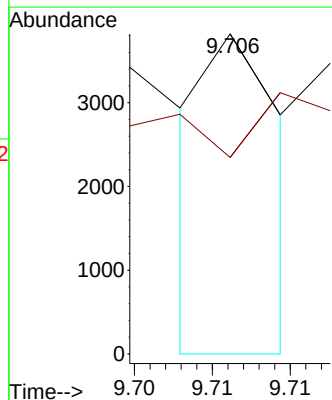
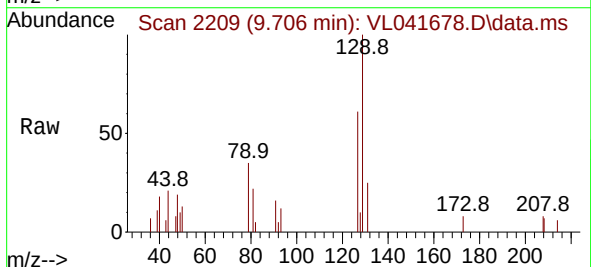
Acq: 7 Nov 2024 12:52

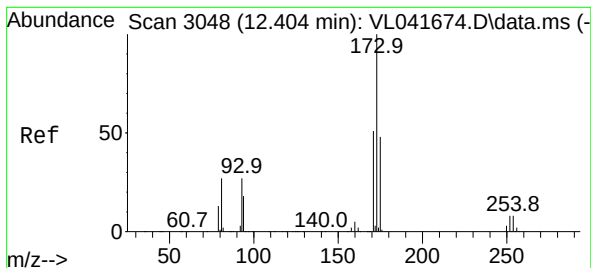
Tgt Ion: 129 Resp: 1289

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#





#49

Bromoform

Concen: 0.039 ppbv

RT: 12.407 min Scan# 3048

Delta R.T. 0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

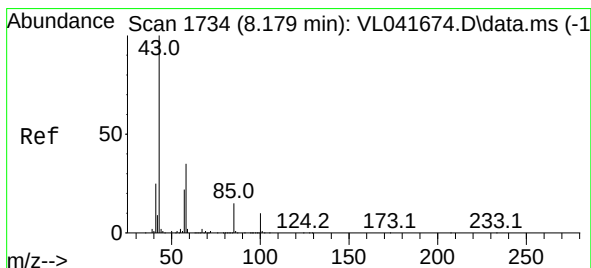
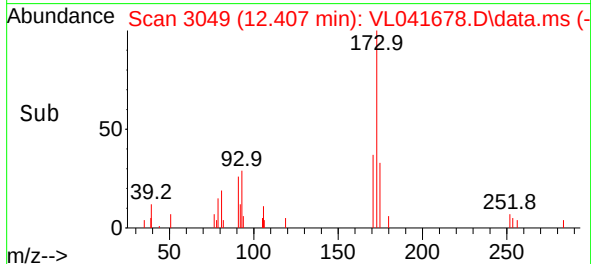
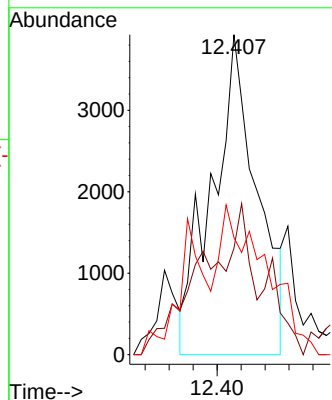
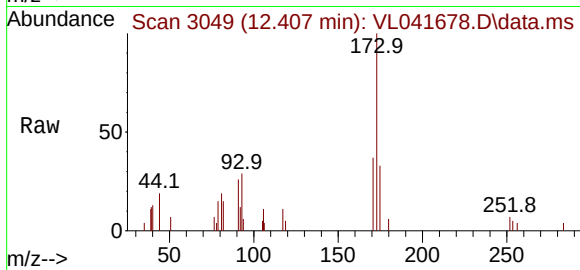
Tgt Ion:173 Resp: 5111

Ion Ratio Lower Upper

173 100

175 69.5 39.2 58.8#

171 73.5 41.7 62.5#



#50

4-Methyl-2-Pentanone

Concen: 0.001 ppbv

RT: 8.166 min Scan# 1730

Delta R.T. -0.013 min

Lab File: VL041678.D

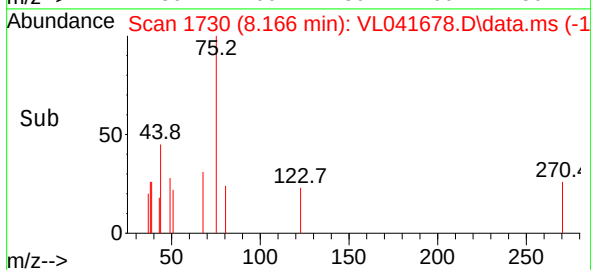
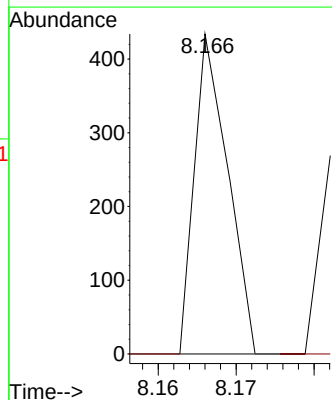
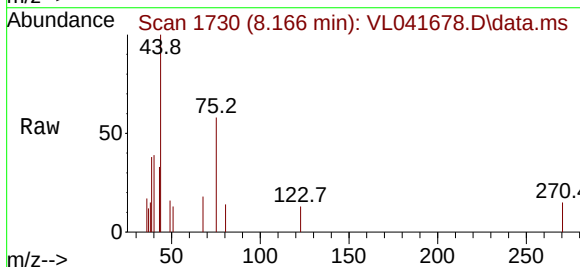
Acq: 7 Nov 2024 12:52

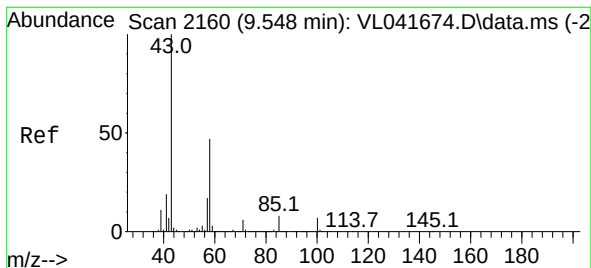
Tgt Ion: 43 Resp: 129

Ion Ratio Lower Upper

43 100

58 0.0 27.7 41.5#





#51

2-Hexanone

Concen: 0.001 ppbv

RT: 9.555 min Scan# 2162

Delta R.T. 0.007 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC0.1

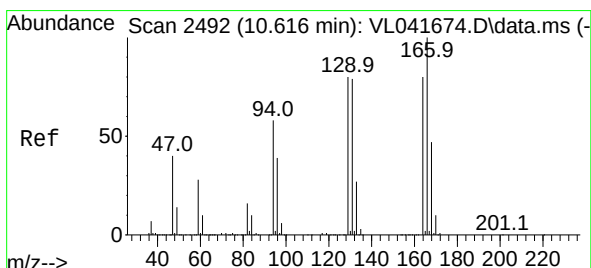
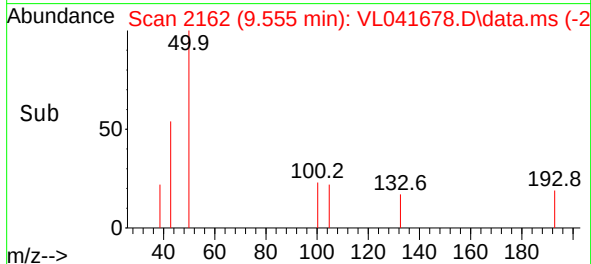
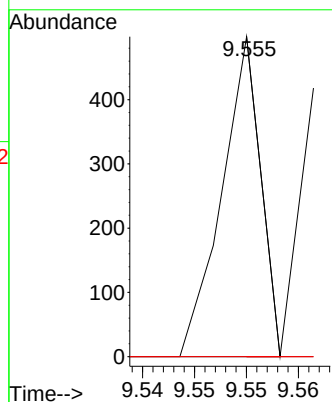
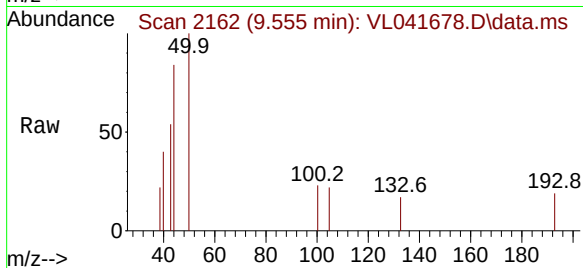
Tgt Ion: 43 Resp: 130

Ion Ratio Lower Upper

43 100

58 0.0 37.0 55.6#

98 0.0 0.6 0.8#



#52

Tetrachloroethene

Concen: 0.055 ppbv

RT: 10.613 min Scan# 2491

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Tgt Ion:164 Resp: 4385

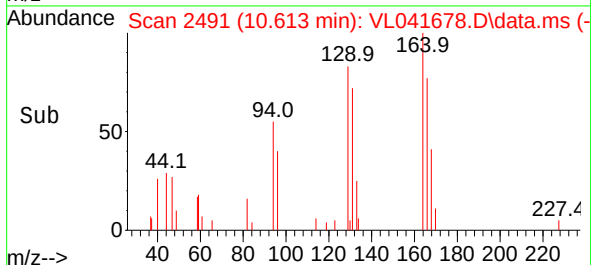
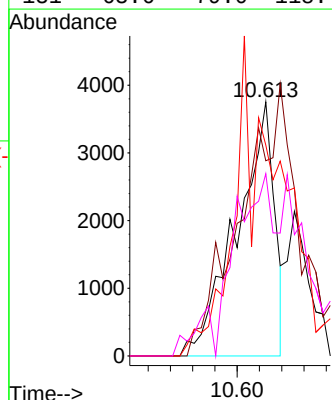
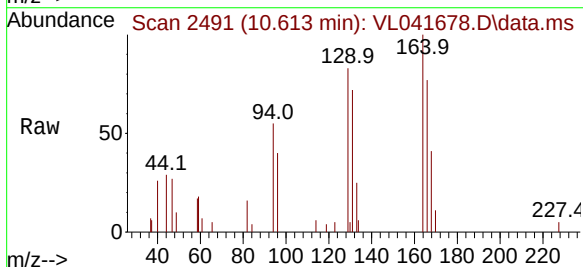
Ion Ratio Lower Upper

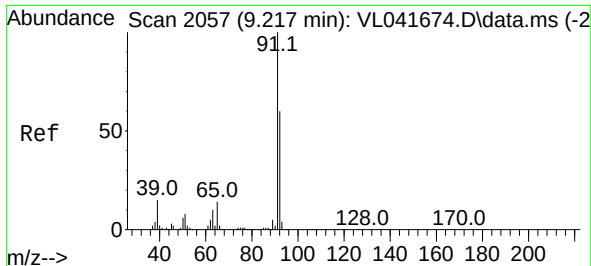
164 100

166 76.8 100.2 150.4#

129 83.0 79.7 119.5

131 63.6 79.0 118.4#





#53

Toluene

Concen: 0.026 ppbv

RT: 9.217 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

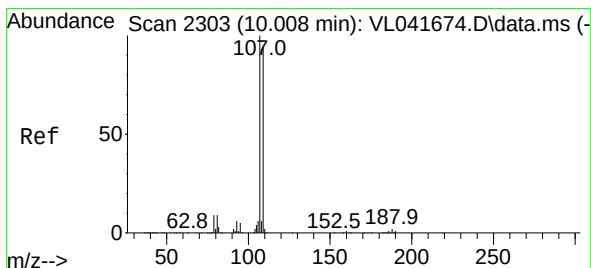
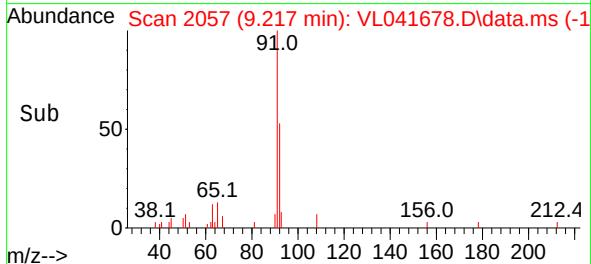
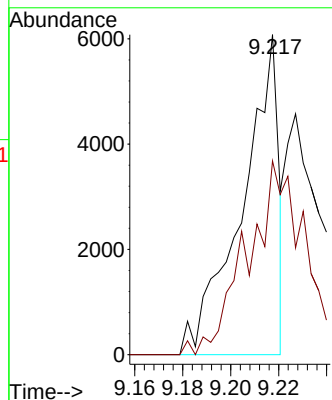
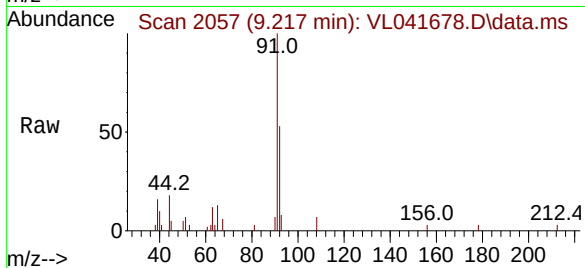
VSTDIC0.1

Tgt Ion: 91 Resp: 6426

Ion Ratio Lower Upper

91 100

92 101.2 49.0 73.4#



#54

1,2-Dibromoethane

Concen: 0.008 ppbv

RT: 10.028 min Scan# 2309

Delta R.T. 0.019 min

Lab File: VL041678.D

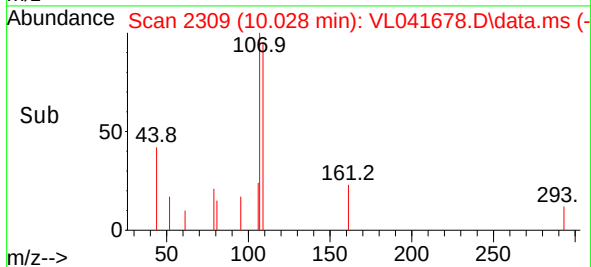
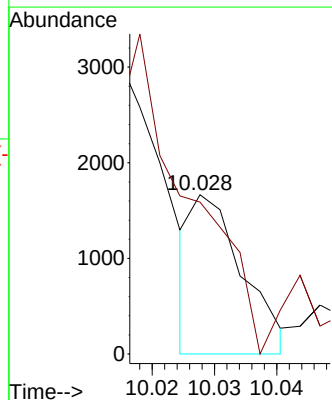
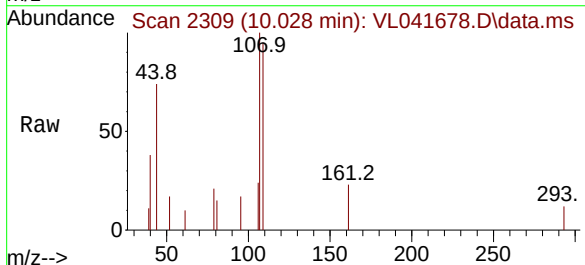
Acq: 7 Nov 2024 12:52

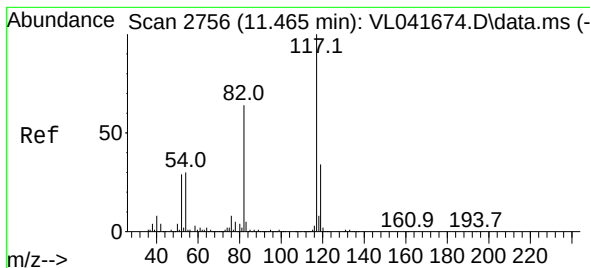
Tgt Ion: 107 Resp: 948

Ion Ratio Lower Upper

107 100

109 81.0 74.9 112.3

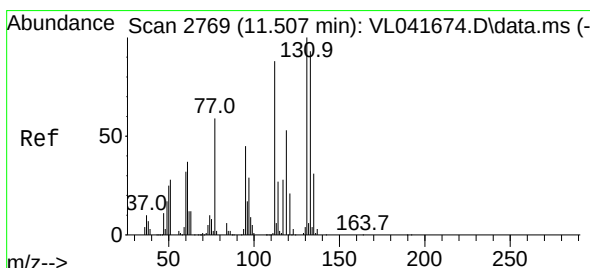
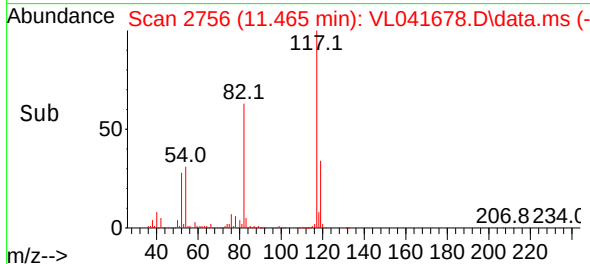
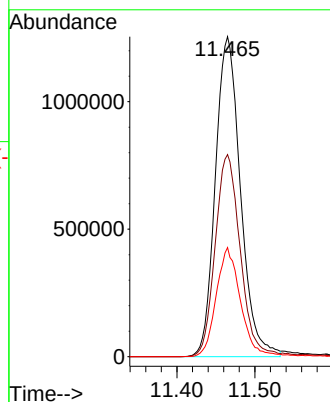
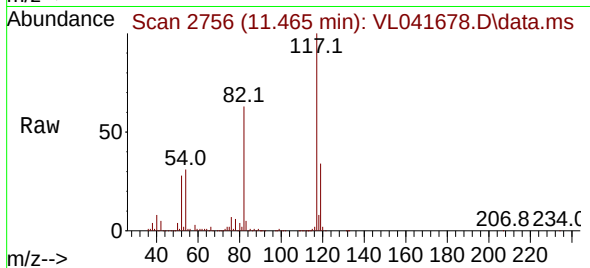




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.465 min Scan# 2756  
Delta R.T. 0.000 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

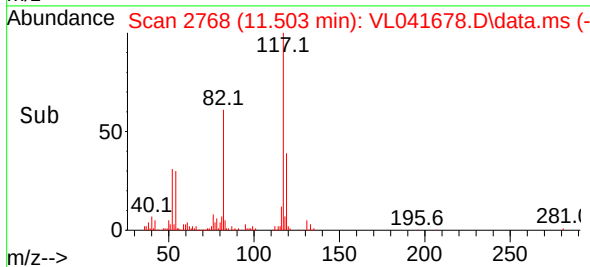
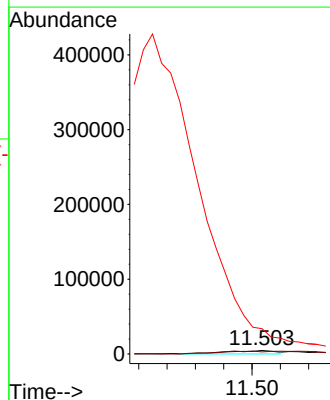
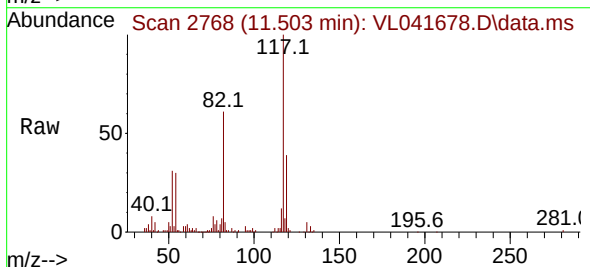
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

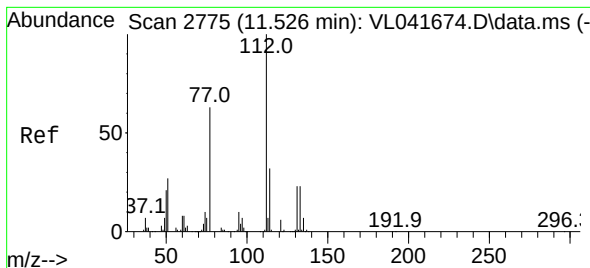
Tgt Ion:117 Resp: 2815160  
Ion Ratio Lower Upper  
117 100  
82 64.5 49.8 74.8  
119 33.4 24.2 36.4



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.047 ppbv  
RT: 11.503 min Scan# 2768  
Delta R.T. -0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Tgt Ion:131 Resp: 5532  
Ion Ratio Lower Upper  
131 100  
133 174.8 76.5 114.7#  
119 0.0 49.8 74.8#

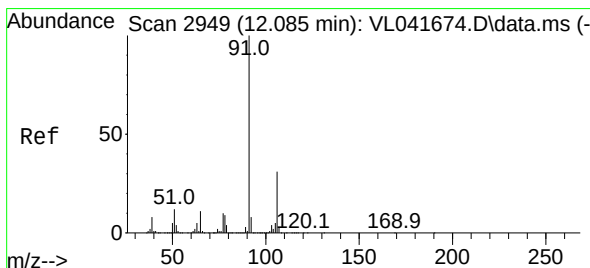
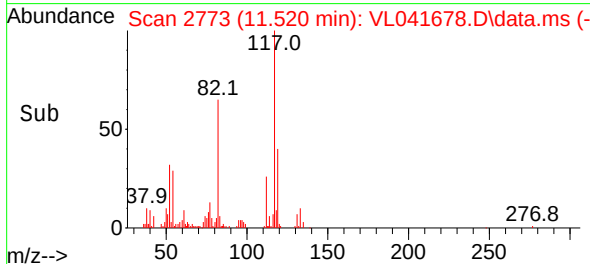
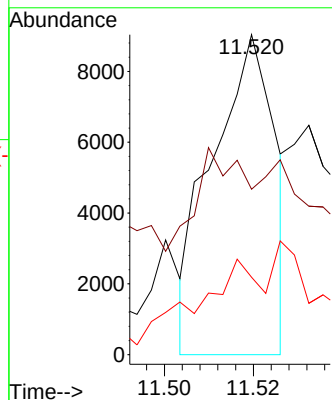
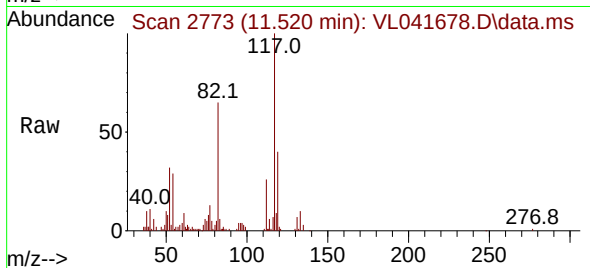




#57  
Chlorobenzene  
Concen: 0.042 ppbv  
RT: 11.520 min Scan# 211  
Delta R.T. -0.006 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

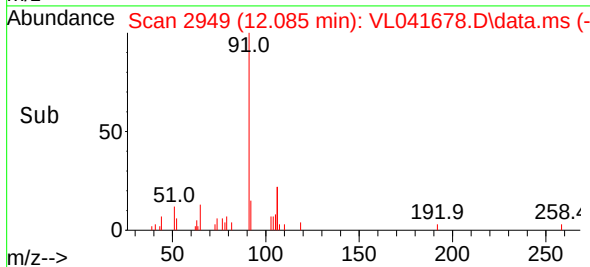
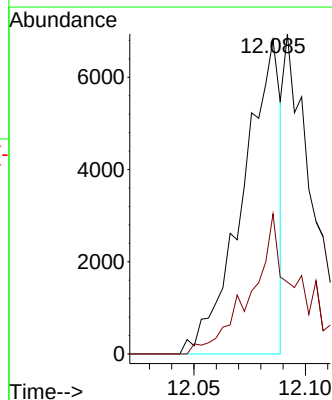
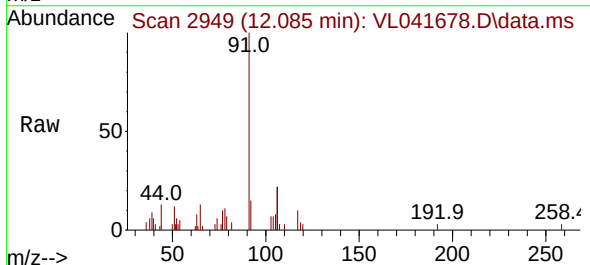
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

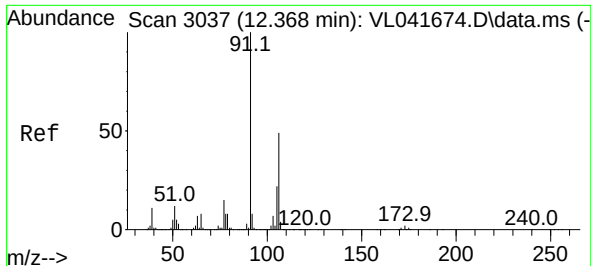
Tgt Ion:112 Resp: 8824  
Ion Ratio Lower Upper  
112 100  
77 14.3 51.4 77.2#  
114 15.1 28.4 34.8#



#58  
Ethyl Benzene  
Concen: 0.026 ppbv  
RT: 12.085 min Scan# 2949  
Delta R.T. 0.000 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Tgt Ion: 91 Resp: 8058  
Ion Ratio Lower Upper  
91 100  
106 44.5 24.9 37.3#





#59

m/p-Xylene

Concen: 0.009 ppbv

RT: 12.372 min Scan# 3038

Delta R.T. 0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

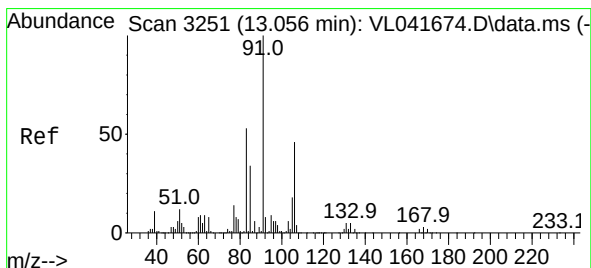
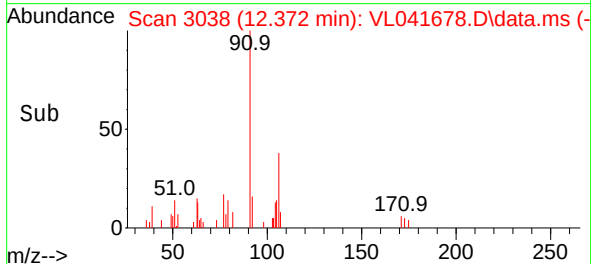
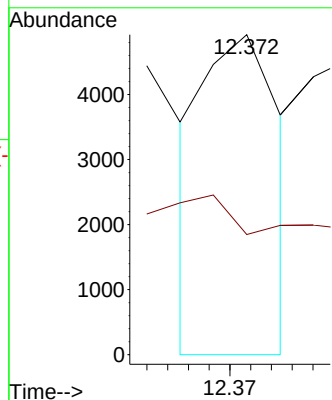
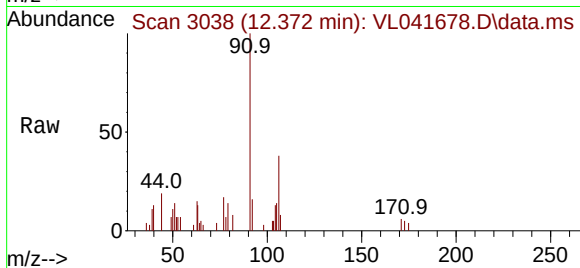
VSTDIC0.1

Tgt Ion: 91 Resp: 2522

Ion Ratio Lower Upper

91 100

106 0.0 36.9 55.3#



#60

o-Xylene

Concen: 0.017 ppbv

RT: 13.060 min Scan# 3252

Delta R.T. 0.003 min

Lab File: VL041678.D

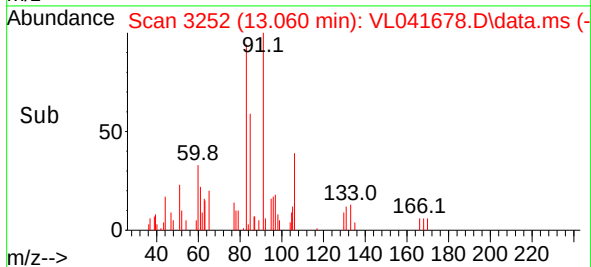
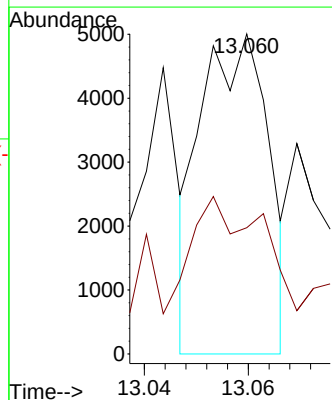
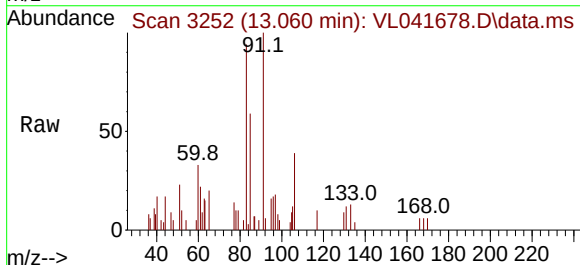
Acq: 7 Nov 2024 12:52

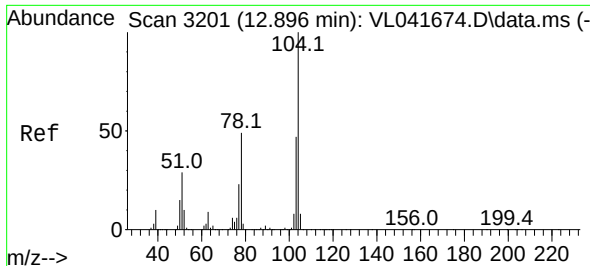
Tgt Ion: 91 Resp: 4516

Ion Ratio Lower Upper

91 100

106 94.9 23.2 69.6#





#61

Styrene

Concen: 0.011 ppbv

RT: 12.896 min Scan# 3201

Delta R.T. 0.000 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

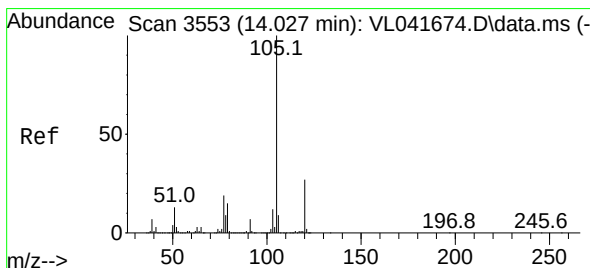
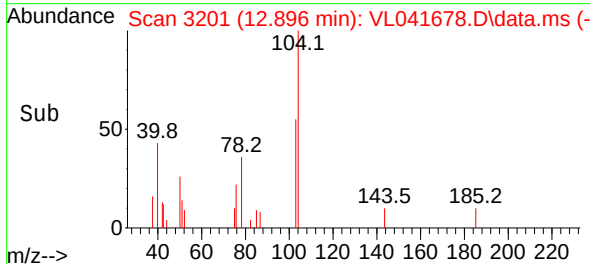
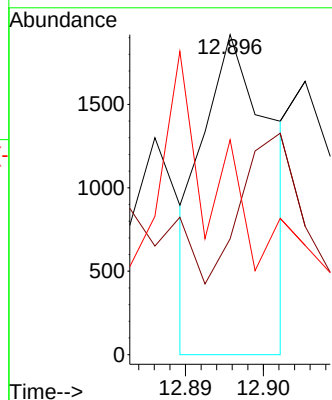
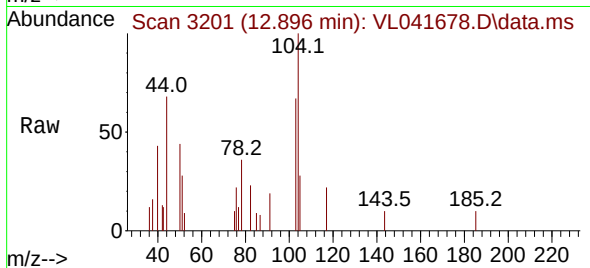
Tgt Ion:104 Resp: 1175

Ion Ratio Lower Upper

104 100

78 0.0 39.8 59.8#

103 0.0 37.4 56.0#



#62

Isopropylbenzene

Concen: 0.018 ppbv

RT: 14.028 min Scan# 3553

Delta R.T. 0.000 min

Lab File: VL041678.D

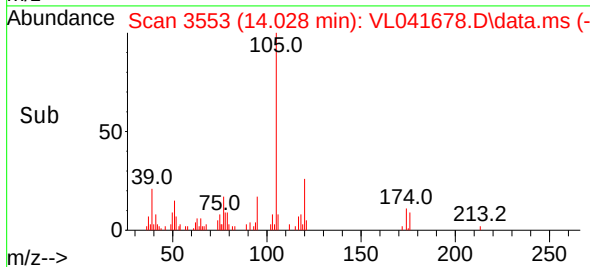
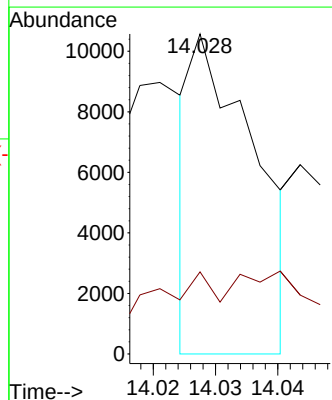
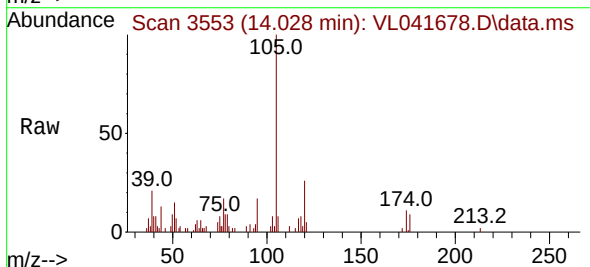
Acq: 7 Nov 2024 12:52

Tgt Ion:105 Resp: 7473

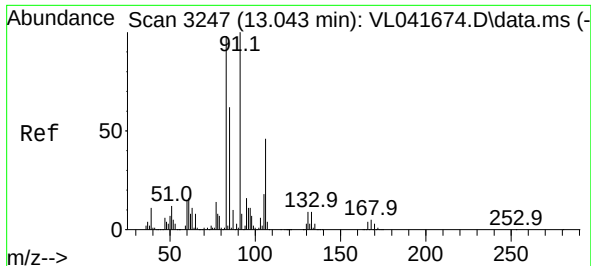
Ion Ratio Lower Upper

105 100

120 0.0 21.1 31.7#



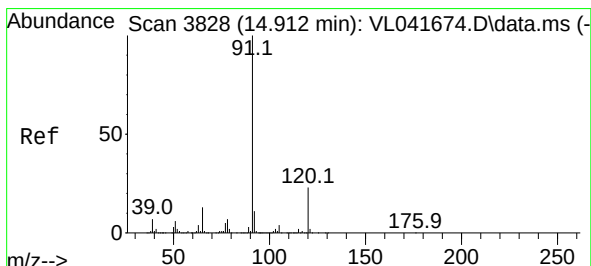
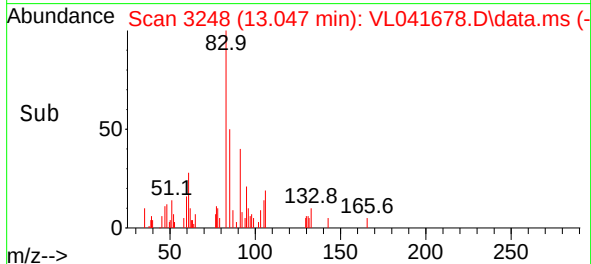
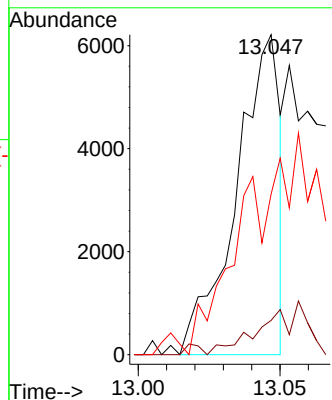
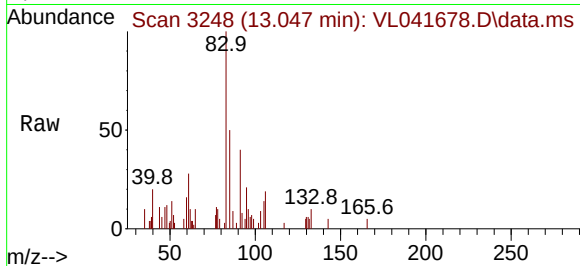




#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.035 ppbv  
RT: 13.047 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

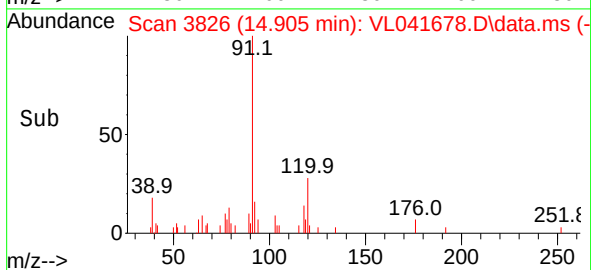
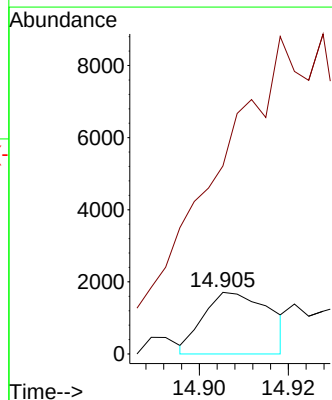
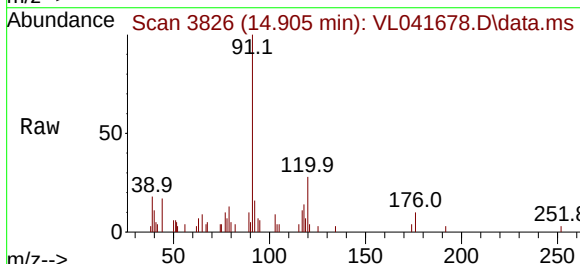
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.1

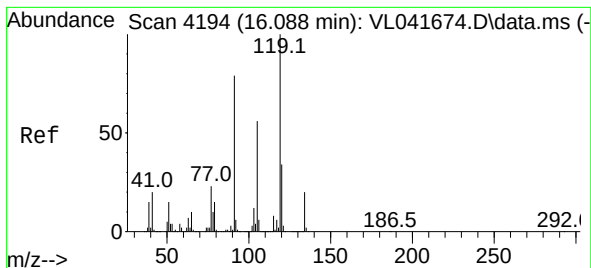
Tgt Ion: 83 Resp: 6699  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.8 14.3#  
85 0.0 32.6 98.0#



#64  
n-propylbenzene  
Concen: 0.016 ppbv  
RT: 14.905 min Scan# 3826  
Delta R.T. -0.006 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Tgt Ion:120 Resp: 1772  
Ion Ratio Lower Upper  
120 100  
91 0.0 362.4 543.6#





#65

tert-Butylbenzene

Concen: 0.016 ppbv

RT: 16.095 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

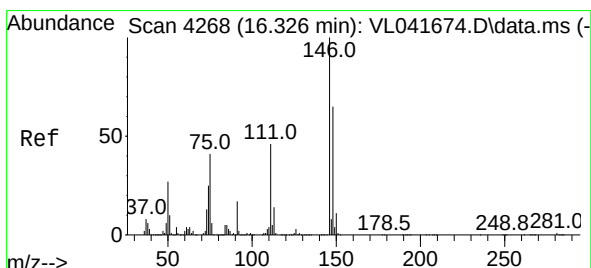
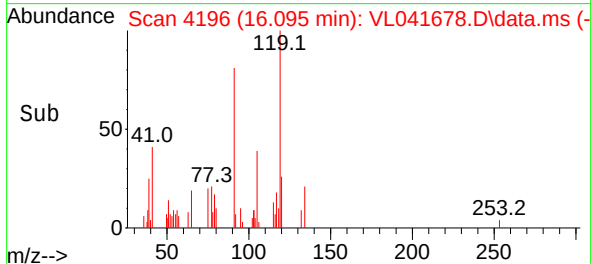
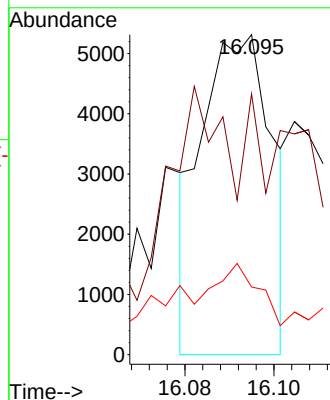
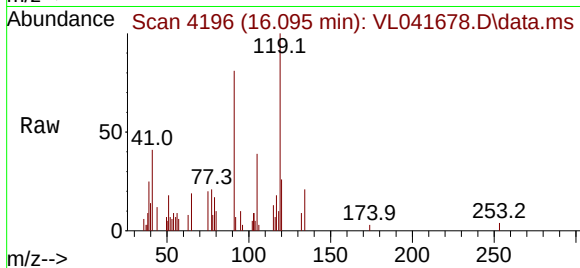
Tgt Ion:119 Resp: 5771

Ion Ratio Lower Upper

119 100

91 0.0 64.3 96.5#

134 53.7 15.8 23.8#



#66

Benzyl Chloride

Concen: 0.018 ppbv

RT: 16.333 min Scan# 4270

Delta R.T. 0.007 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

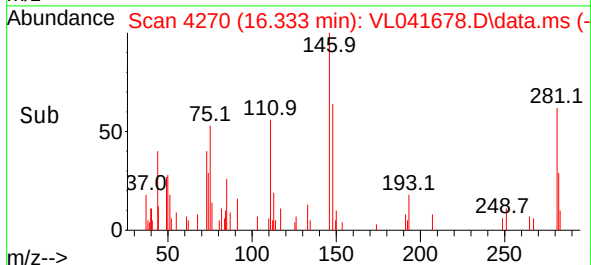
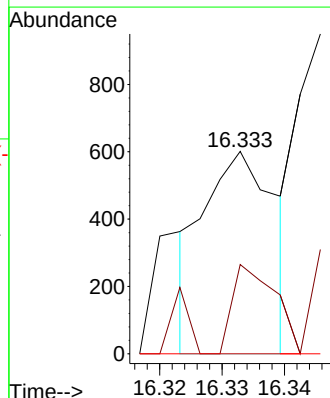
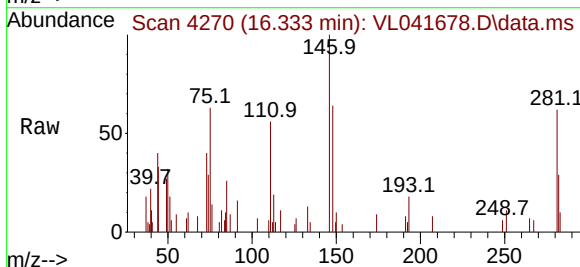
Tgt Ion: 91 Resp: 477

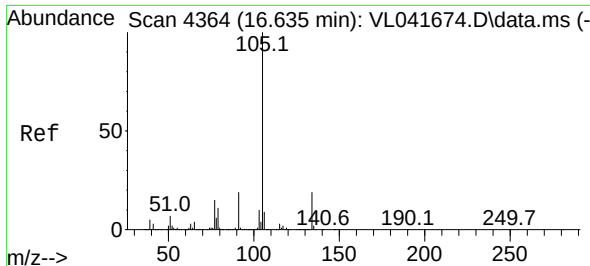
Ion Ratio Lower Upper

91 100

126 0.0 13.8 20.6#

128 0.0 4.3 6.5#





#67

sec-Butylbenzene

Concen: 0.010 ppbv

RT: 16.642 min Scan# 4366

Delta R.T. 0.007 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

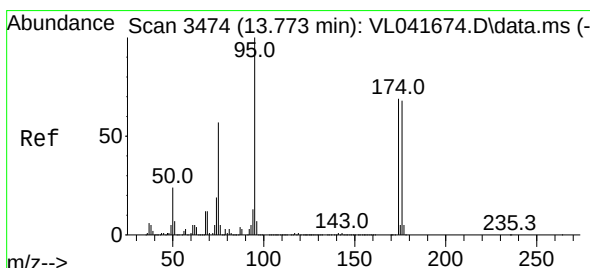
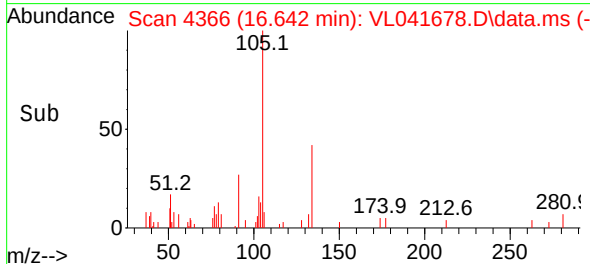
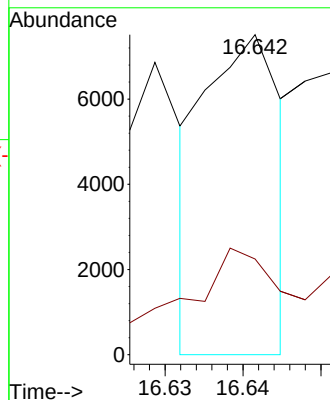
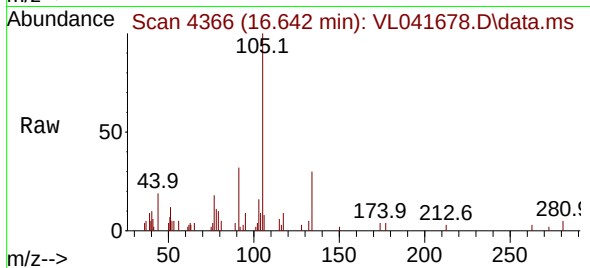
VSTDIC0.1

Tgt Ion:105 Resp: 5110

Ion Ratio Lower Upper

105 100

134 94.7 14.6 22.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.145 ppbv

RT: 13.774 min Scan# 3474

Delta R.T. 0.000 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

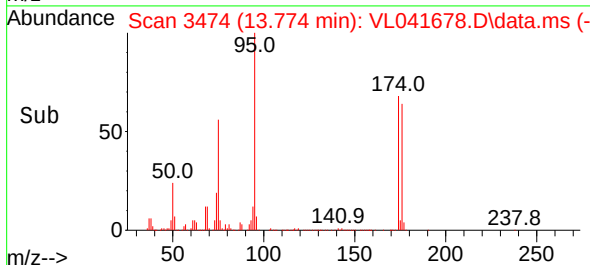
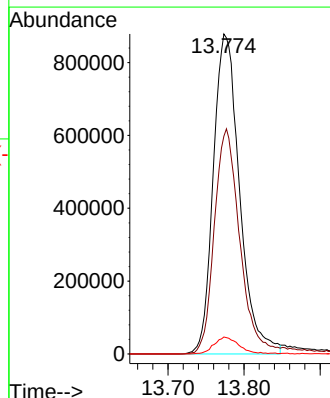
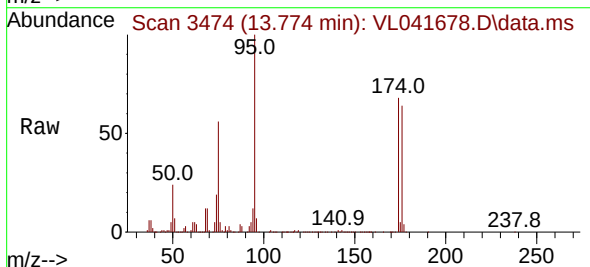
Tgt Ion: 95 Resp: 2112048

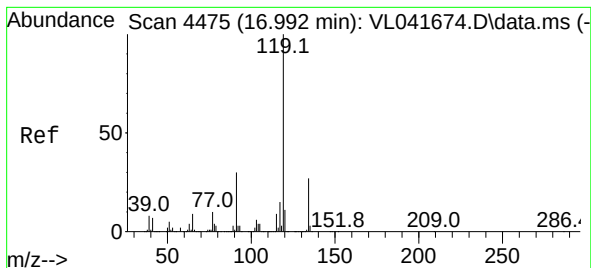
Ion Ratio Lower Upper

95 100

174 71.0 55.6 83.4

175 5.1 4.2 6.2





#69

p-Isopropyltoluene

Concen: 0.009 ppbv

RT: 16.995 min Scan# 4475

Delta R.T. 0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

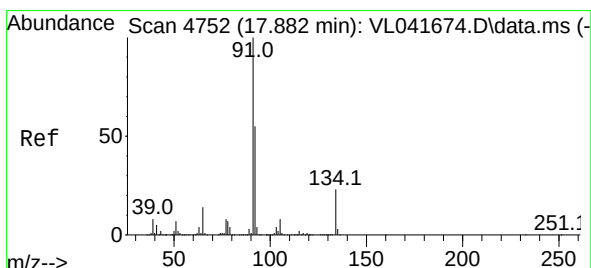
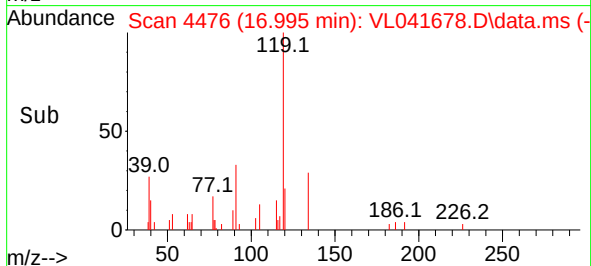
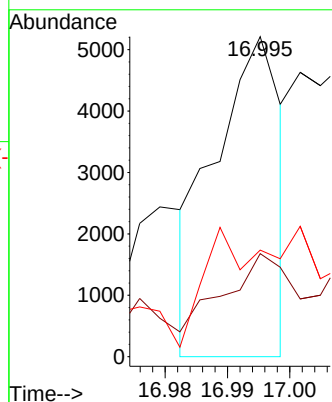
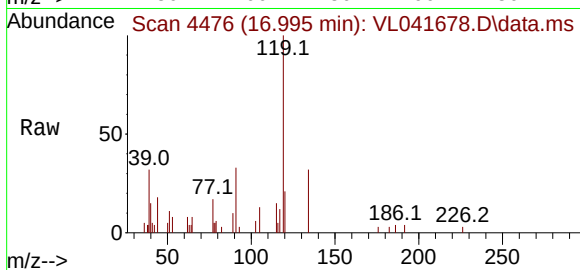
Tgt Ion:119 Resp: 3874

Ion Ratio Lower Upper

119 100

134 0.0 20.8 31.2#

91 0.0 23.2 34.8#



#70

n-Butylbenzene

Concen: 0.006 ppbv

RT: 17.883 min Scan# 4752

Delta R.T. 0.000 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

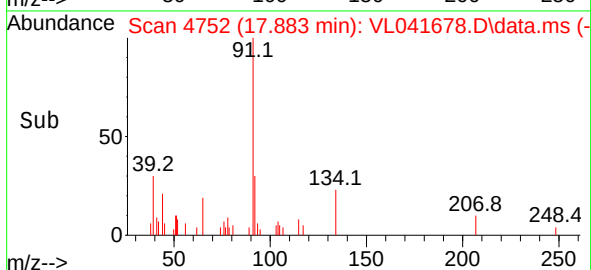
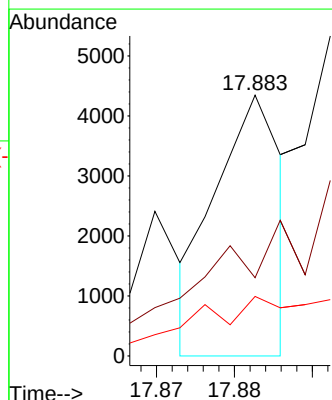
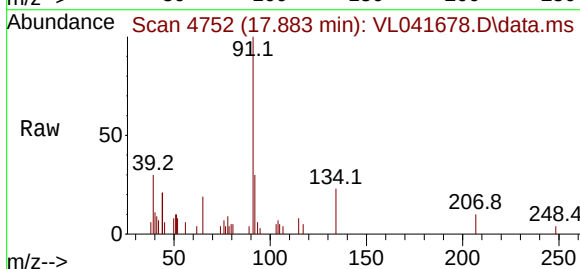
Tgt Ion: 91 Resp: 2579

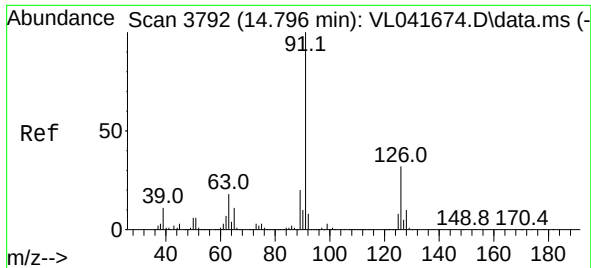
Ion Ratio Lower Upper

91 100

92 0.0 43.3 64.9#

134 0.0 18.4 27.6#

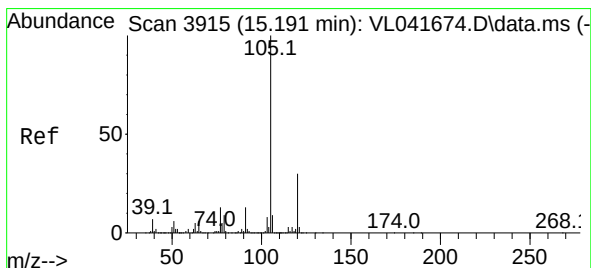
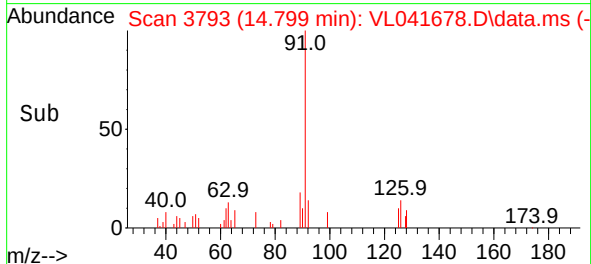
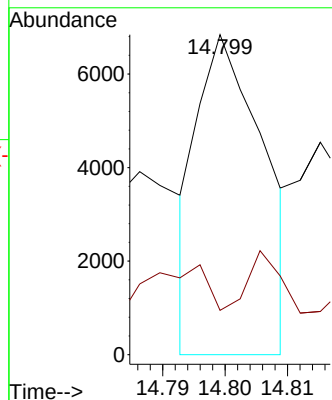
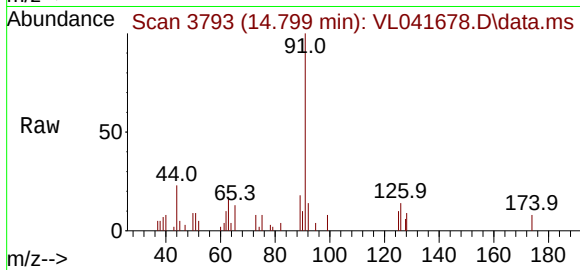




#71  
2-Chlorotoluene  
Concen: 0.017 ppbv  
RT: 14.799 min Scan# 3793  
Delta R.T. 0.003 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

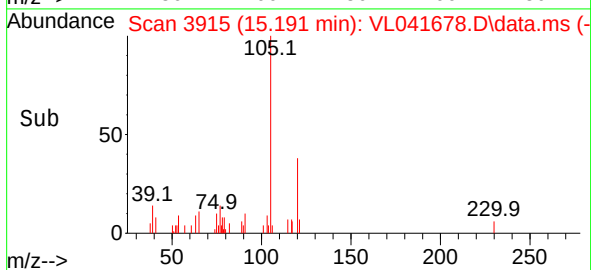
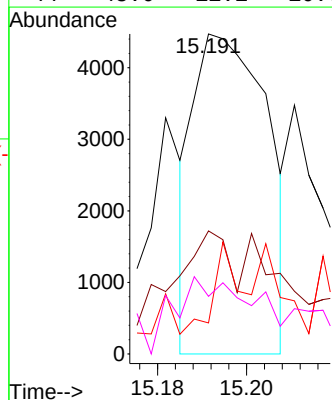
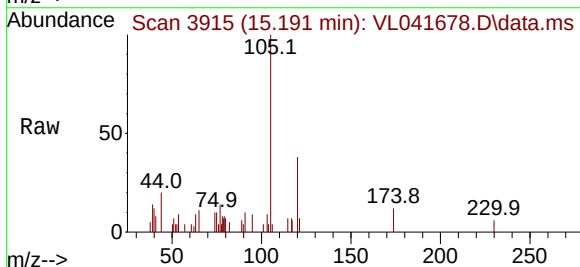
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

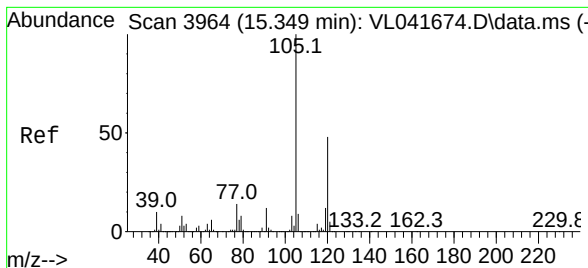
Tgt Ion: 91 Resp: 5048  
Ion Ratio Lower Upper  
91 100  
126 44.2 12.8 51.0



#72  
4-Ethyltoluene  
Concen: 0.017 ppbv  
RT: 15.191 min Scan# 3915  
Delta R.T. 0.000 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Tgt Ion: 105 Resp: 5148  
Ion Ratio Lower Upper  
105 100  
120 76.8 25.0 37.4#  
91 49.0 10.6 15.8#  
77 43.0 11.1 16.7#

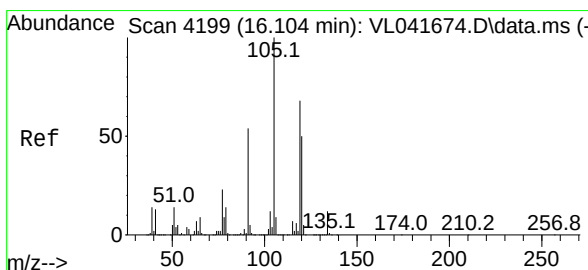
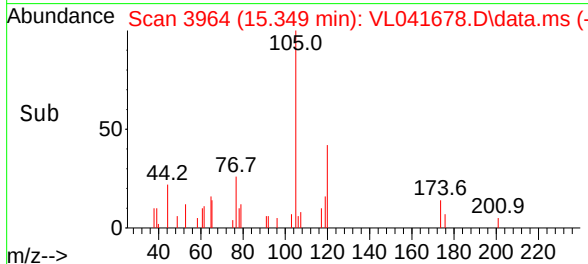
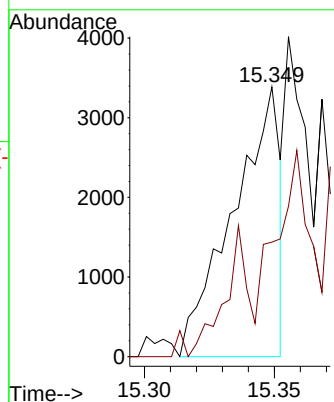
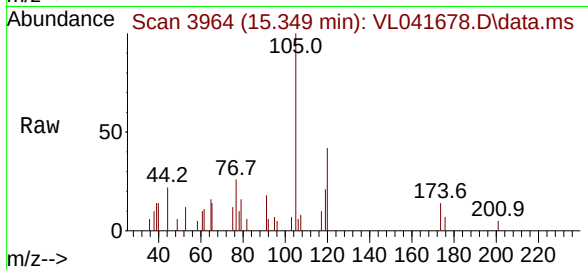




#73  
1,3,5-Trimethylbenzene  
Concen: 0.016 ppbv  
RT: 15.349 min Scan# 3964  
Delta R.T. 0.000 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

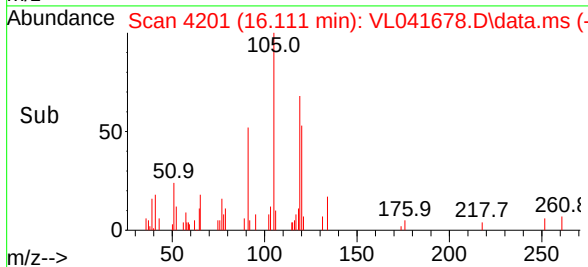
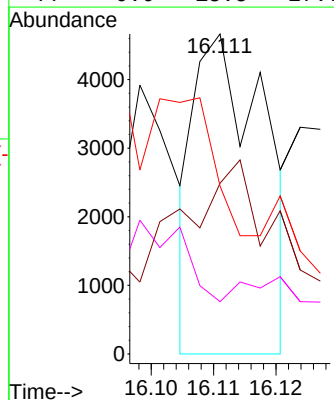
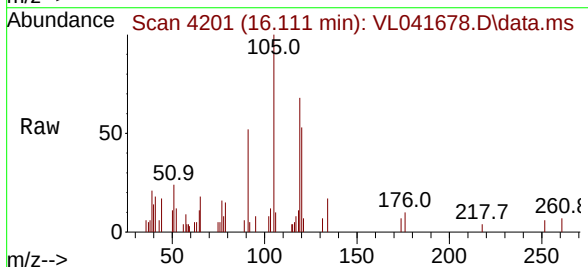
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

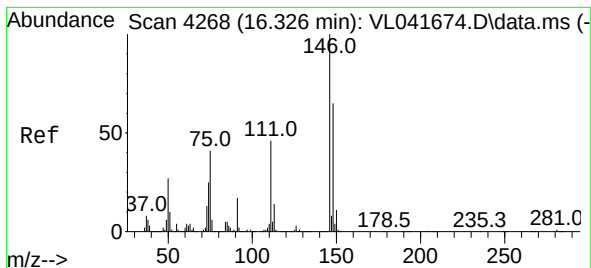
Tgt Ion:105 Resp: 4231  
Ion Ratio Lower Upper  
105 100  
120 32.8 38.4 57.6#



#74  
1,2,4-Trimethylbenzene  
Concen: 0.011 ppbv  
RT: 16.111 min Scan# 4201  
Delta R.T. 0.007 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Tgt Ion:105 Resp: 3618  
Ion Ratio Lower Upper  
105 100  
120 18.1 39.8 59.8#  
91 6.5 43.2 64.8#  
77 0.0 18.5 27.7#





#75

1,3-Dichlorobenzene

Concen: 0.012 ppbv

RT: 16.326 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

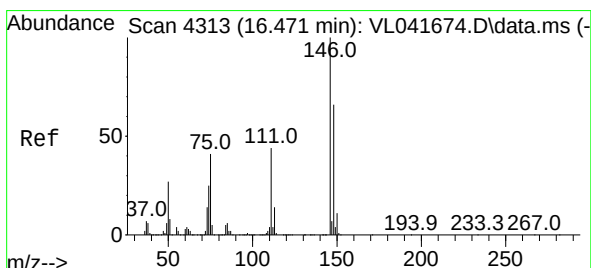
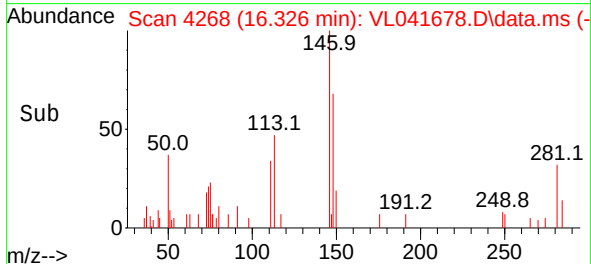
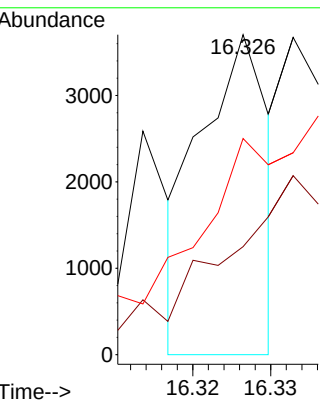
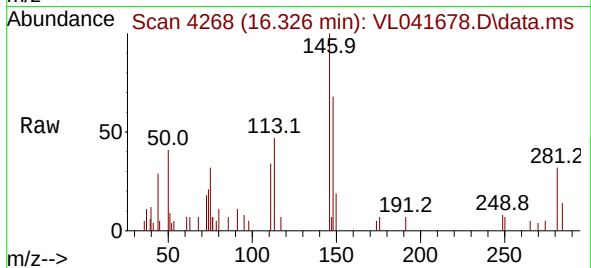
Tgt Ion:146 Resp: 2267

Ion Ratio Lower Upper

146 100

111 0.0 22.8 68.3#

148 0.0 32.4 97.0#



#76

1,4-Dichlorobenzene

Concen: 0.013 ppbv

RT: 16.468 min Scan# 4312

Delta R.T. -0.003 min

Lab File: VL041678.D

Acq: 7 Nov 2024 12:52

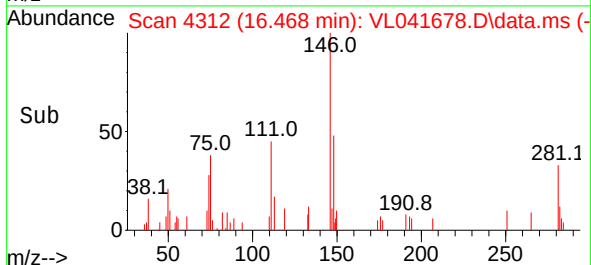
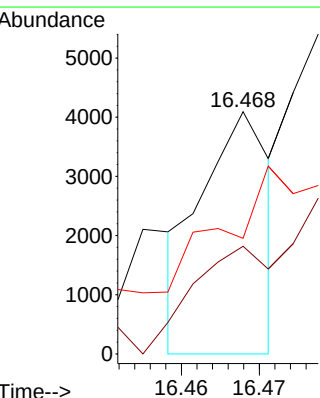
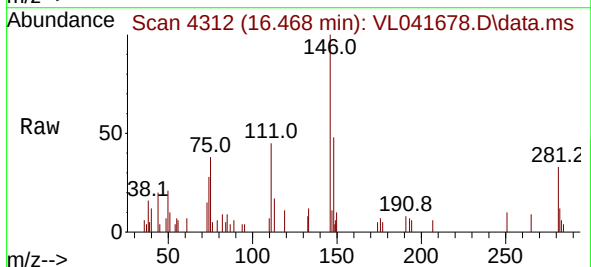
Tgt Ion:146 Resp: 2512

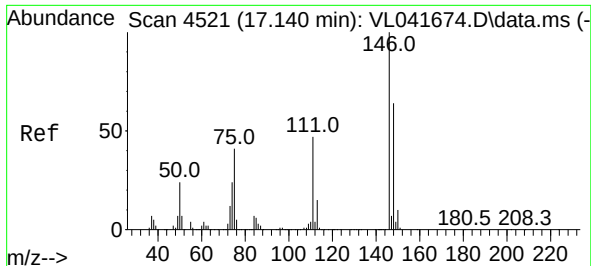
Ion Ratio Lower Upper

146 100

111 0.0 22.1 66.3#

148 347.5 33.3 99.8#

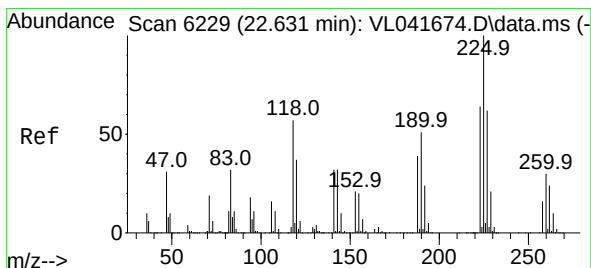
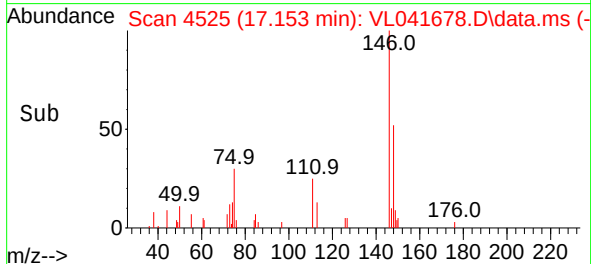
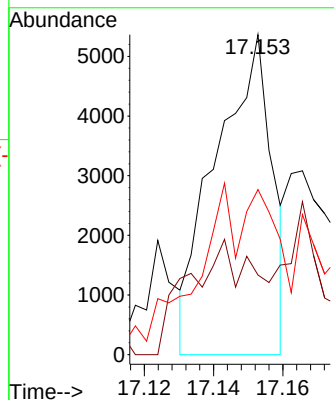
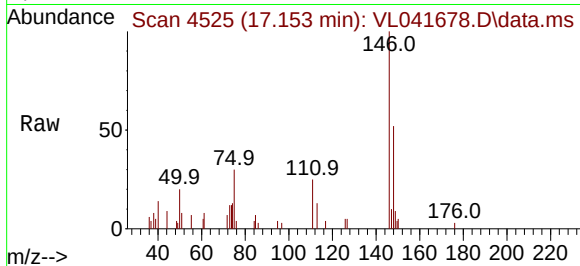




#77  
1,2-Dichlorobenzene  
Concen: 0.031 ppbv  
RT: 17.153 min Scan# 4525  
Delta R.T. 0.013 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

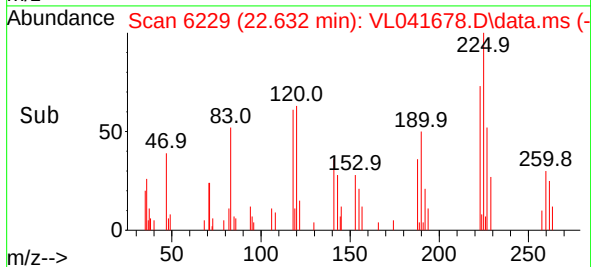
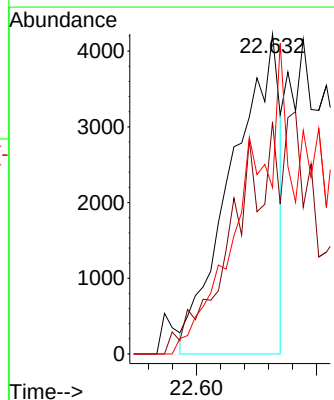
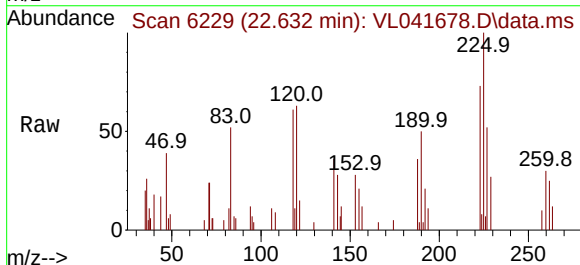
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.1

Tgt Ion:146 Resp: 6040  
Ion Ratio Lower Upper  
146 100  
111 0.0 23.4 70.3#  
148 123.1 32.1 96.5#

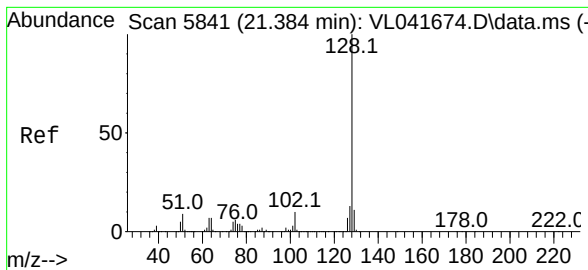


#78  
Hexachloro-1,3-Butadiene  
Concen: 0.038 ppbv  
RT: 22.632 min Scan# 6229  
Delta R.T. 0.000 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

Tgt Ion:225 Resp: 5833  
Ion Ratio Lower Upper  
225 100  
223 0.0 51.1 76.7#  
227 158.4 51.3 76.9#



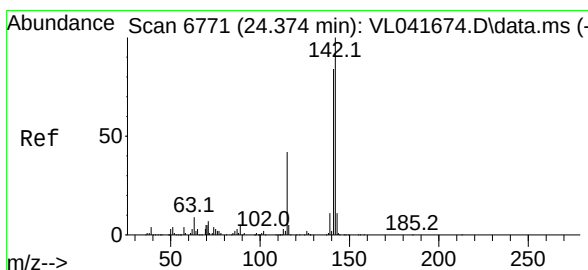
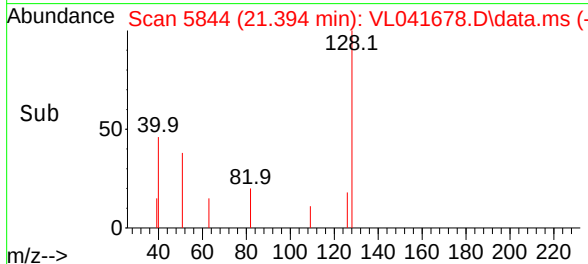
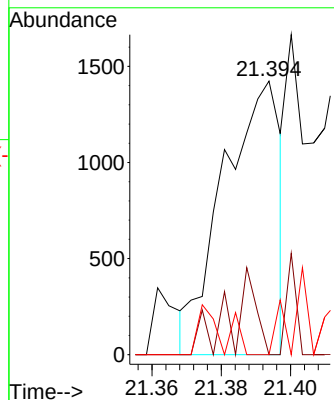
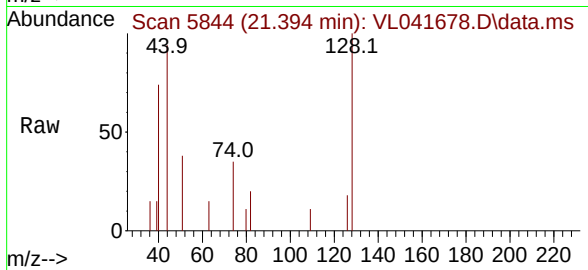




#79  
Naphthalene  
Concen: 0.008 ppbv  
RT: 21.394 min Scan# 5844  
Delta R.T. 0.010 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

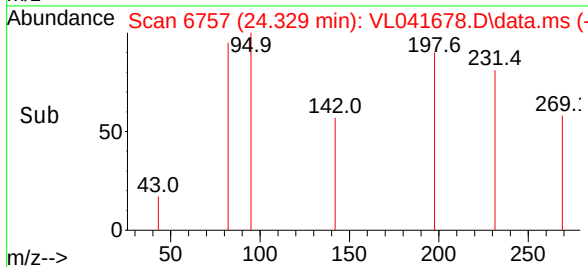
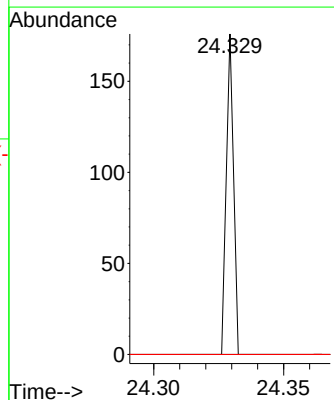
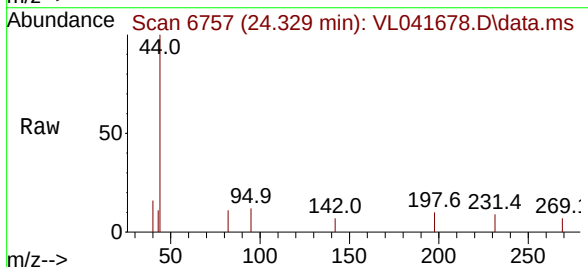
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

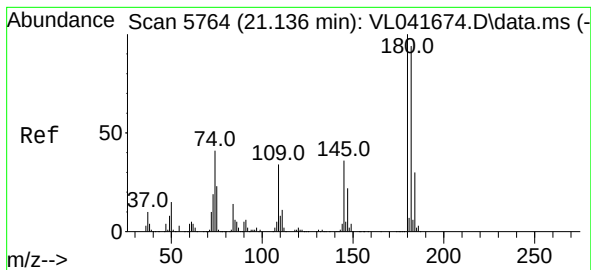
Tgt Ion:128 Resp: 1624  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.5 15.7#  
129 0.0 8.7 13.1#



#80  
Naphthalene,2-methyl-  
Concen: 0.001 ppbv  
RT: 24.329 min Scan# 6757  
Delta R.T. -0.045 min  
Lab File: VL041678.D  
Acq: 7 Nov 2024 12:52

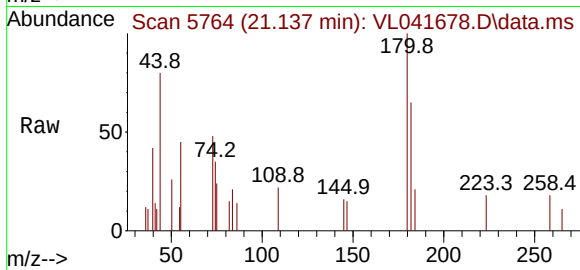
Tgt Ion:142 Resp: 34  
Ion Ratio Lower Upper  
142 100  
141 0.0 68.1 102.1#  
115 0.0 33.1 49.7#



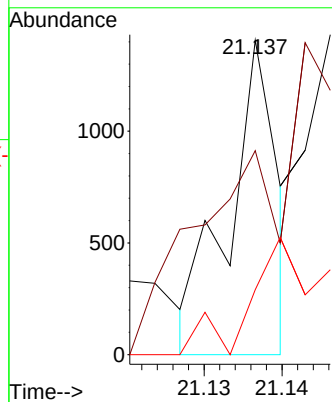
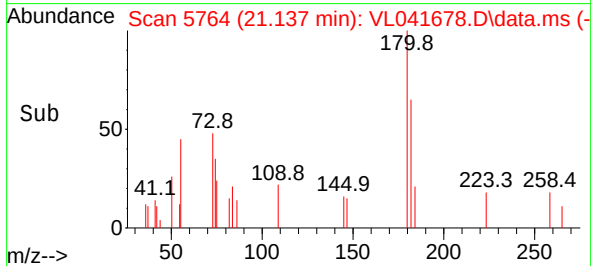


#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.005 ppbv  
 RT: 21.137 min Scan# 51  
 Delta R.T. 0.000 min  
 Lab File: VL041678.D  
 Acq: 7 Nov 2024 12:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.1



Tgt Ion:180 Resp: 609  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 78.2 117.2#  
 184 0.0 25.0 37.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041679.D  
 Acq On : 7 Nov 2024 13:31  
 Operator : SY/MD  
 Sample : VSTDICC0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

Quant Time: Nov 08 00:12:39 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.192  | 49   | 1085923  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.652  | 114  | 3041887  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.465 | 117  | 2745730  | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 13.777 | 95    | 2034307  | 10.018   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.200% |

| Target Compounds              |       |     |        |       | Qvalue |    |
|-------------------------------|-------|-----|--------|-------|--------|----|
| 2) Dichlorodifluoromethane    | 2.732 | 85  | 6415   | 0.033 | ppbv   | 97 |
| 3) Chlorodifluoromethane      | 2.678 | 51  | 4231   | 0.030 | ppbv # | 78 |
| 4) Chloromethane              | 2.809 | 50  | 1954   | 0.026 | ppbv # | 69 |
| 5) Vinyl Chloride             | 2.922 | 62  | 1458   | 0.021 | ppbv # | 43 |
| 6) Bromomethane               | 3.115 | 94  | 500    | 0.014 | ppbv # | 20 |
| 7) Chloroethane               | 3.195 | 64  | 355    | 0.014 | ppbv # | 83 |
| 8) Dichlorotetrafluoroethane  | 2.854 | 85  | 4693   | 0.027 | ppbv   | 85 |
| 9) Propene                    | 2.694 | 41  | 3311   | 0.054 | ppbv # | 15 |
| 10) Heptane                   | 7.581 | 43  | 701    | 0.005 | ppbv # | 1  |
| 11) Trichlorofluoromethane    | 3.555 | 101 | 4735   | 0.028 | ppbv # | 64 |
| 12) 1,1,2-Trichlorotrifluo... | 4.060 | 101 | 3059   | 0.025 | ppbv # | 75 |
| 13) Ethanol                   | 3.263 | 45  | 191    | 0.050 | ppbv   | 90 |
| 14) Bromoethene               | 3.366 | 108 | 767    | 0.015 | ppbv # | 5  |
| 15) Acetone                   | 3.462 | 43  | 221    | 0.002 | ppbv # | 48 |
| 16) 1,3-Butadiene             | 2.980 | 39  | 1582   | 0.024 | ppbv   | 92 |
| 17) tert-Butyl alcohol        | 3.870 | 59  | 61     | 0.001 | ppbv # | 72 |
| 18) 1,1-Dichloroethene        | 3.877 | 96  | 1065   | 0.020 | ppbv # | 32 |
| 19) Isopropyl Alcohol         | 3.578 | 45  | 98     | 0.002 | ppbv # | 91 |
| 20) Methylene Chloride        | 3.932 | 84  | 7989   | 0.162 | ppbv   | 86 |
| 21) Allyl Chloride            | 3.996 | 41  | 1190   | 0.014 | ppbv # | 1  |
| 22) trans-1,2-Dichloroethene  | 4.449 | 96  | 520    | 0.010 | ppbv # | 66 |
| 23) Vinyl Acetate             | 4.632 | 43  | 855    | 0.014 | ppbv # | 78 |
| 24) 1,1-Dichloroethane        | 4.555 | 63  | 2589   | 0.021 | ppbv # | 90 |
| 25) Ethyl Acetate             | 5.202 | 43  | 1588   | 0.006 | ppbv # | 74 |
| 26) Hexane                    | 5.218 | 57  | 745    | 0.007 | ppbv # | 1  |
| 27) Carbon Disulfide          | 4.124 | 76  | 1735   | 0.015 | ppbv # | 1  |
| 28) Methyl tert-Butyl Ether   | 4.613 | 73  | 754    | 0.011 | ppbv   | 96 |
| 29) Chloroform                | 5.292 | 83  | 318    | 0.002 | ppbv   | 99 |
| 30) Cyclohexane               | 6.603 | 84  | 702    | 0.008 | ppbv # | 1  |
| 31) cis-1,2-Dichloroethene    | 5.086 | 61  | 458    | 0.004 | ppbv # | 48 |
| 32) 1,1,1-Trichloroethane     | 6.005 | 97  | 1403   | 0.009 | ppbv # | 1  |
| 34) 2-Butanone                | 4.755 | 43  | 129    | 0.001 | ppbv # | 54 |
| 35) Carbon Tetrachloride      | 6.491 | 117 | 1934   | 0.012 | ppbv # | 73 |
| 36) Benzene                   | 6.372 | 78  | 2104   | 0.009 | ppbv # | 63 |
| 37) 1,2-Dichloroethane        | 5.812 | 62  | 2581   | 0.020 | ppbv   | 96 |
| 38) Trichloroethene           | 7.291 | 130 | 1440   | 0.017 | ppbv # | 47 |
| 39) 1,2-Dichloropropane       | 6.648 | 63  | 750579 | 8.427 | ppbv # | 24 |
| 40) 1,4-Dioxane               | 7.272 | 88  | 41     | 0.001 | ppbv # | 1  |
| 41) Tetrahydrofuran           | 5.597 | 42  | 1248   | 0.014 | ppbv # | 57 |
| 42) Bromodichloromethane      | 7.246 | 83  | 1411   | 0.008 | ppbv # | 65 |
| 43) Methyl Methacrylate       | 7.472 | 69  | 273    | 0.003 | ppbv # | 1  |
| 44) 2,2,4-Trimethylpentane    | 7.320 | 57  | 1208   | 0.003 | ppbv # | 1  |
| 45) t-1,3-Dichloropropene     | 8.706 | 75  | 213    | 0.003 | ppbv # | 44 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041679.D  
 Acq On : 7 Nov 2024 13:31  
 Operator : SY/MD  
 Sample : VSTDICC0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

Quant Time: Nov 08 00:12:39 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

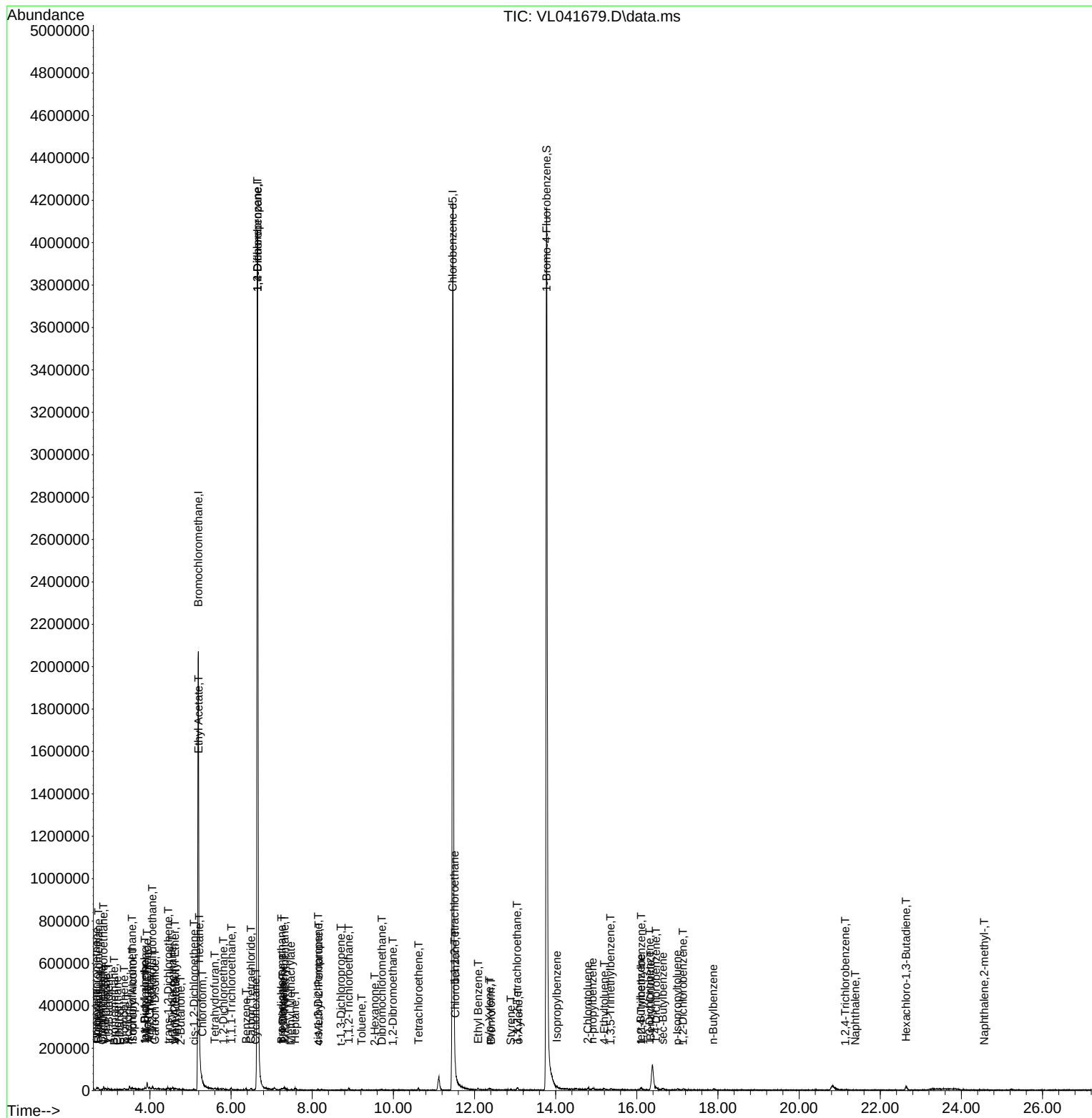
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.147  | 75   | 395      | 0.004 | ppbv # | 61       |
| 47) 1,1,2-Trichloroethane     | 8.896  | 97   | 998      | 0.010 | ppbv # | 42       |
| 48) Dibromochloromethane      | 9.716  | 129  | 535      | 0.004 | ppbv # | 10       |
| 49) Bromoform                 | 12.407 | 173  | 728      | 0.006 | ppbv # | 27       |
| 50) 4-Methyl-2-Pentanone      | 8.163  | 43   | 68       | 0.000 | ppbv # | 40       |
| 51) 2-Hexanone                | 9.542  | 43   | 154      | 0.001 | ppbv # | 31       |
| 52) Tetrachloroethene         | 10.623 | 164  | 492      | 0.006 | ppbv # | 30       |
| 53) Toluene                   | 9.217  | 91   | 447      | 0.002 | ppbv # | 20       |
| 54) 1,2-Dibromoethane         | 9.986  | 107  | 148      | 0.001 | ppbv   | 90       |
| 56) 1,1,1,2-Tetrachloroethane | 11.507 | 131  | 1400     | 0.012 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.526 | 112  | 1018     | 0.005 | ppbv # | 42       |
| 58) Ethyl Benzene             | 12.089 | 91   | 2272     | 0.007 | ppbv   | 93       |
| 59) m/p-Xylene                | 12.365 | 91   | 880      | 0.003 | ppbv # | 30       |
| 60) o-Xylene                  | 13.082 | 91   | 359      | 0.001 | ppbv   | 73       |
| 61) Styrene                   | 12.893 | 104  | 361      | 0.003 | ppbv # | 1        |
| 62) Isopropylbenzene          | 14.028 | 105  | 2118     | 0.005 | ppbv # | 1        |
| 63) 1,1,2,2-Tetrachloroethane | 13.047 | 83   | 1745     | 0.009 | ppbv # | 25       |
| 64) n-propylbenzene           | 14.912 | 120  | 187      | 0.002 | ppbv # | 1        |
| 65) tert-Butylbenzene         | 16.095 | 119  | 481      | 0.001 | ppbv # | 1        |
| 66) Benzyl Chloride           | 16.339 | 91   | 31       | 0.001 | ppbv # | 66       |
| 67) sec-Butylbenzene          | 16.645 | 105  | 2059     | 0.004 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 16.995 | 119  | 431      | 0.001 | ppbv # | 1        |
| 70) n-Butylbenzene            | 17.886 | 91   | 657      | 0.002 | ppbv # | 33       |
| 71) 2-Chlorotoluene           | 14.793 | 91   | 1624     | 0.006 | ppbv # | 43       |
| 72) 4-Ethyltoluene            | 15.198 | 105  | 907      | 0.003 | ppbv # | 54       |
| 73) 1,3,5-Trimethylbenzene    | 15.352 | 105  | 343      | 0.001 | ppbv # | 29       |
| 74) 1,2,4-Trimethylbenzene    | 16.111 | 105  | 1159     | 0.004 | ppbv # | 45       |
| 75) 1,3-Dichlorobenzene       | 16.314 | 146  | 202      | 0.001 | ppbv # | 23       |
| 76) 1,4-Dichlorobenzene       | 16.471 | 146  | 857      | 0.005 | ppbv # | 23       |
| 77) 1,2-Dichlorobenzene       | 17.137 | 146  | 285      | 0.002 | ppbv # | 23       |
| 78) Hexachloro-1,3-Butadiene  | 22.635 | 225  | 2496     | 0.017 | ppbv # | 57       |
| 79) Naphthalene               | 21.381 | 128  | 64       | 0.000 | ppbv # | 69       |
| 80) Naphthalene,2-methyl-     | 24.561 | 142  | 38       | 0.001 | ppbv # | 18       |
| 81) 1,2,4-Trichlorobenzene    | 21.140 | 180  | 259      | 0.002 | ppbv # | 1        |

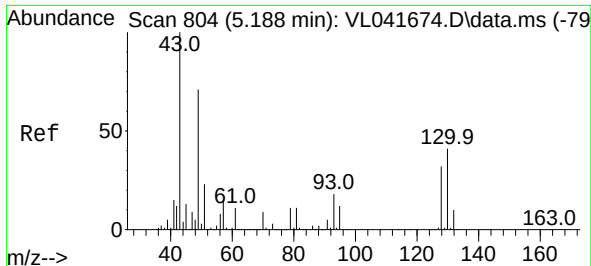
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
Data File : VL041679.D  
Acq On : 7 Nov 2024 13:31  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Quant Time: Nov 08 00:12:39 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

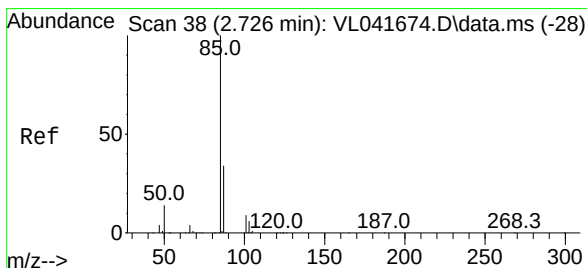
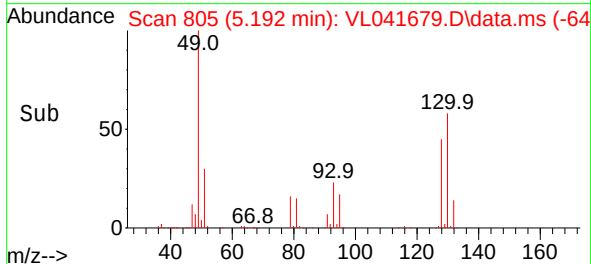
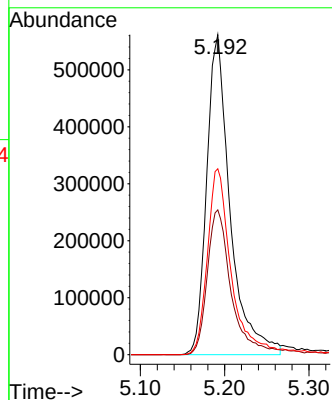
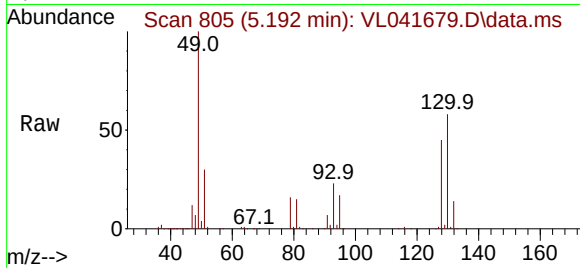




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.192 min Scan# 80  
Delta R.T. 0.004 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

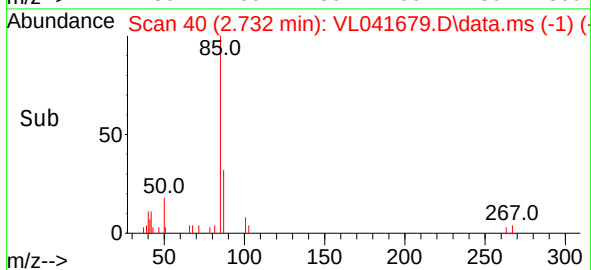
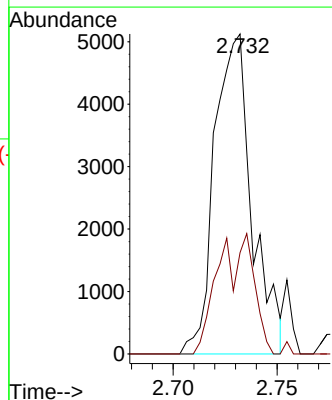
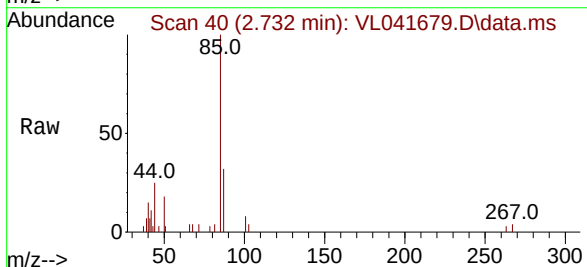
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

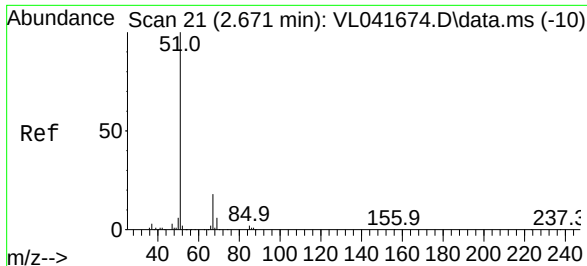
Tgt Ion: 49 Resp: 1085923  
Ion Ratio Lower Upper  
49 100  
128 48.0 23.8 71.2  
130 61.1 30.1 90.5



#2  
Dichlorodifluoromethane  
Concen: 0.033 ppbv  
RT: 2.732 min Scan# 40  
Delta R.T. 0.007 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion: 85 Resp: 6415  
Ion Ratio Lower Upper  
85 100  
87 31.7 26.8 40.2

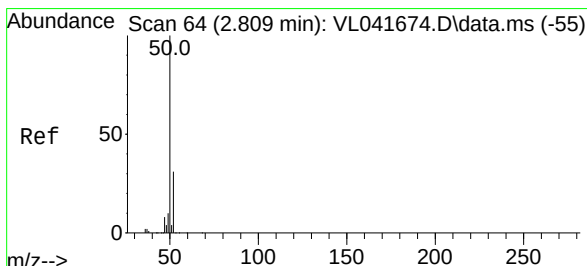
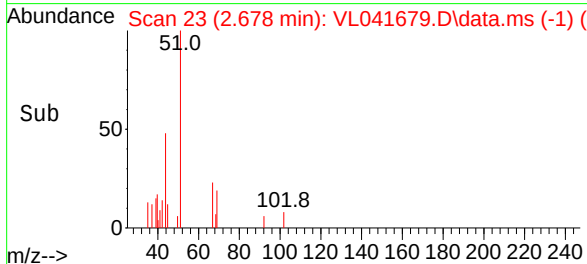
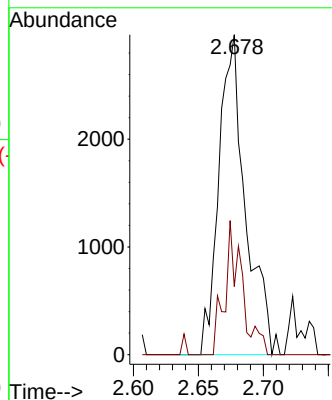
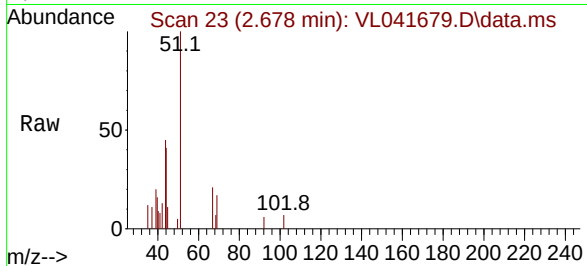




#3  
Chlorodifluoromethane  
Concen: 0.030 ppbv  
RT: 2.678 min Scan# 21  
Delta R.T. 0.007 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

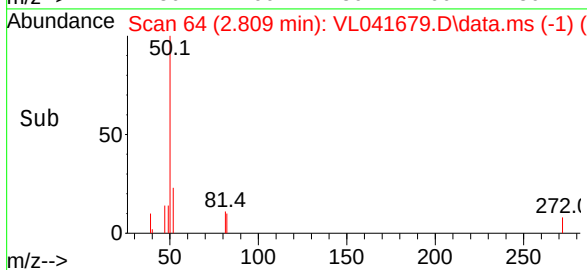
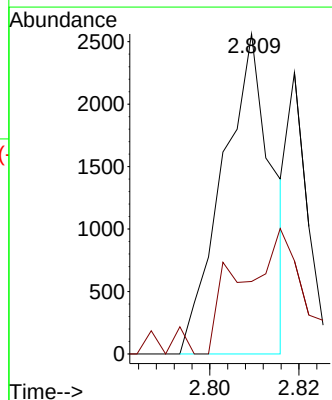
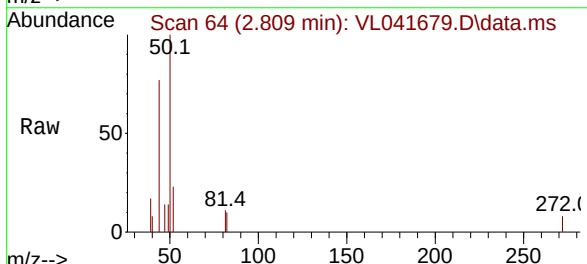
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

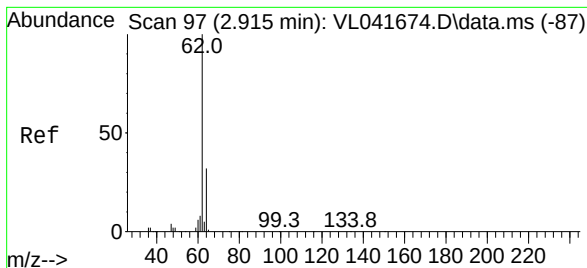
Tgt Ion: 51 Resp: 4231  
Ion Ratio Lower Upper  
51 100  
67 27.2 13.9 20.9#



#4  
Chloromethane  
Concen: 0.026 ppbv  
RT: 2.809 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion: 50 Resp: 1954  
Ion Ratio Lower Upper  
50 100  
52 14.1 24.9 37.3#

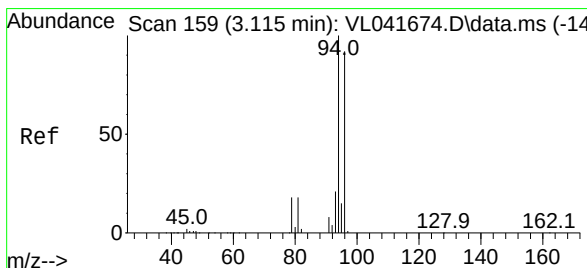
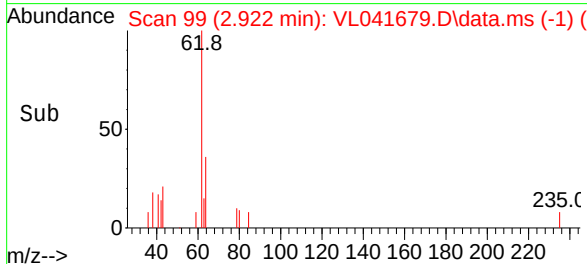
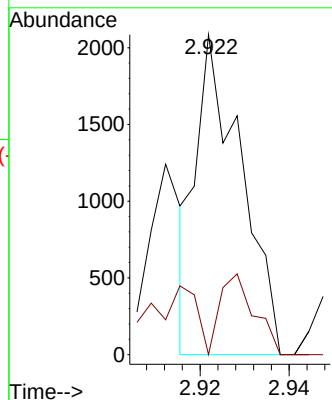
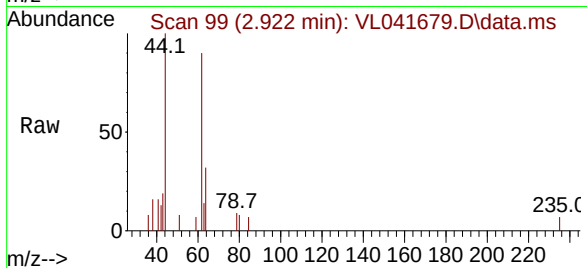




#5  
Vinyl Chloride  
Concen: 0.021 ppbv  
RT: 2.922 min Scan# 90  
Delta R.T. 0.007 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

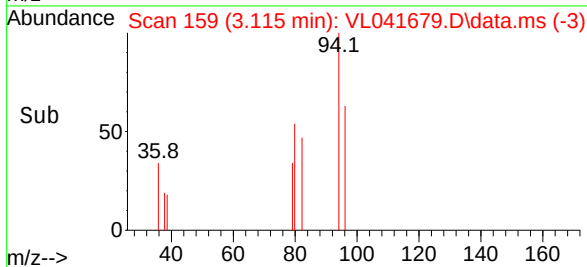
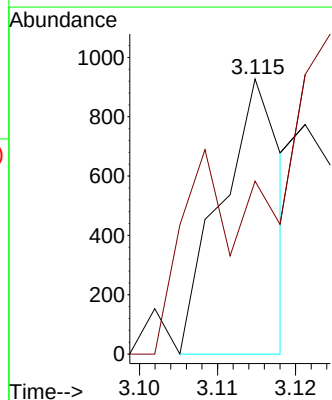
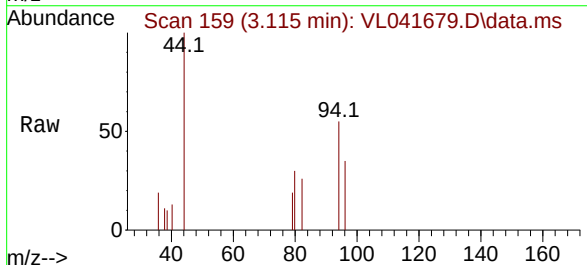
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Tgt Ion: 62 Resp: 1458  
Ion Ratio Lower Upper  
62 100  
64 0.0 25.4 38.2#

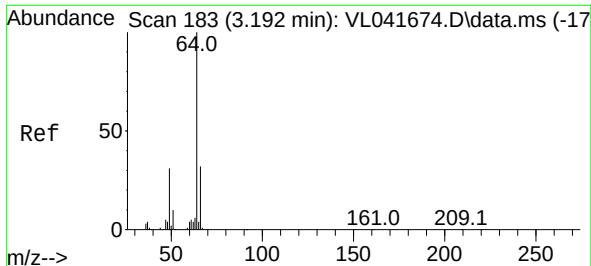


#6  
Bromomethane  
Concen: 0.014 ppbv  
RT: 3.115 min Scan# 159  
Delta R.T. 0.000 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion: 94 Resp: 500  
Ion Ratio Lower Upper  
94 100  
96 16.0 73.4 110.2#



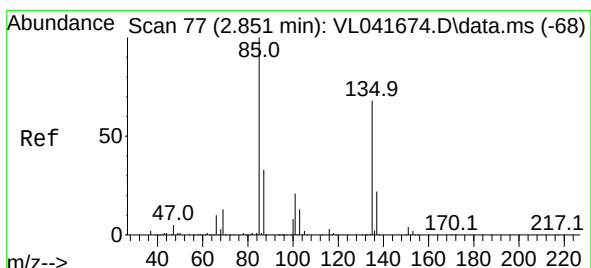
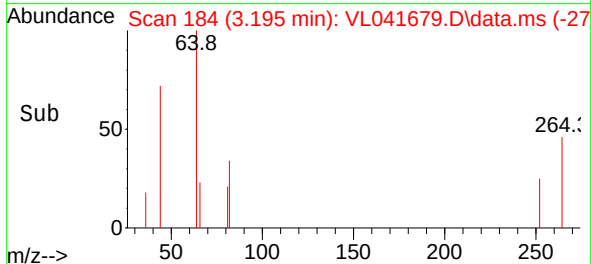
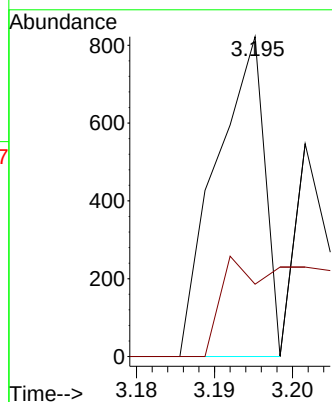
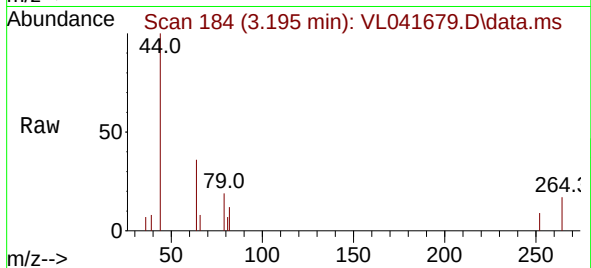




#7  
Chloroethane  
Concen: 0.014 ppbv  
RT: 3.195 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

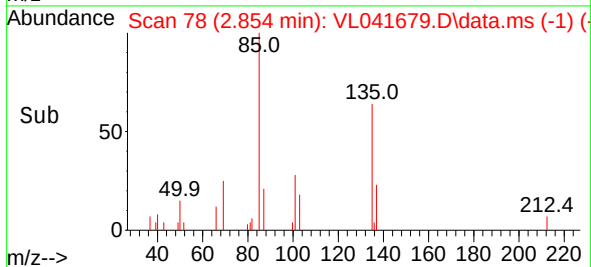
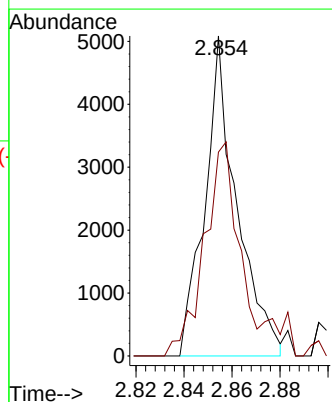
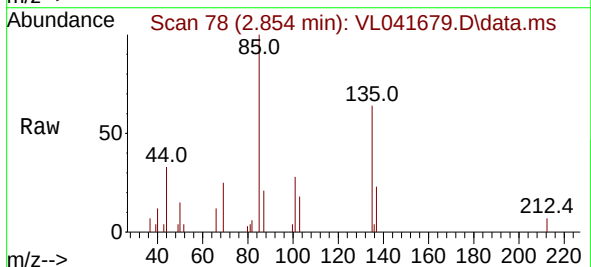
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

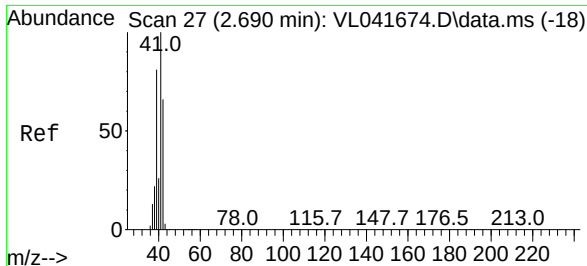
Tgt Ion: 64 Resp: 355  
Ion Ratio Lower Upper  
64 100  
66 22.6 25.9 38.9#



#8  
Dichlorotetrafluoroethane  
Concen: 0.027 ppbv  
RT: 2.854 min Scan# 78  
Delta R.T. 0.003 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion: 85 Resp: 4693  
Ion Ratio Lower Upper  
85 100  
135 81.8 55.5 83.3





#9

Propene

Concen: 0.054 ppbv

RT: 2.694 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

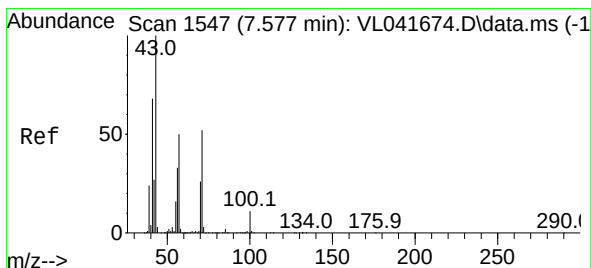
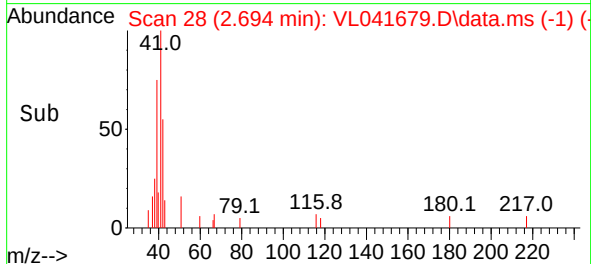
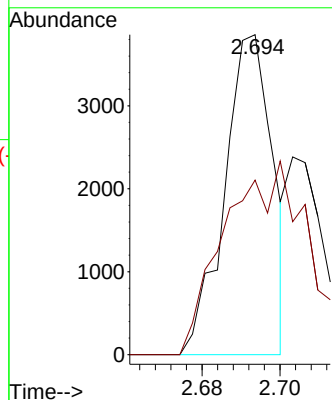
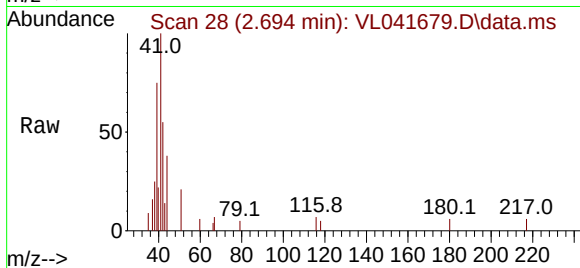
VSTDIC0.03

Tgt Ion: 41 Resp: 3311

Ion Ratio Lower Upper

41 100

42 0.0 55.0 82.4#



#10

Heptane

Concen: 0.005 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. 0.003 min

Lab File: VL041679.D

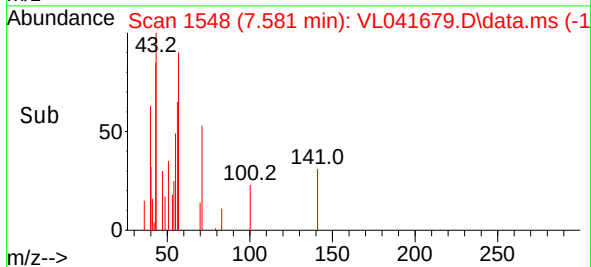
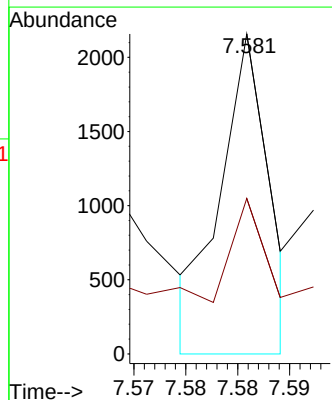
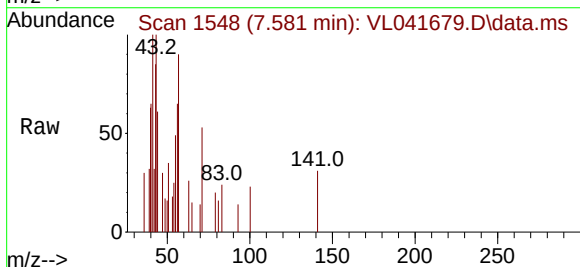
Acq: 7 Nov 2024 13:31

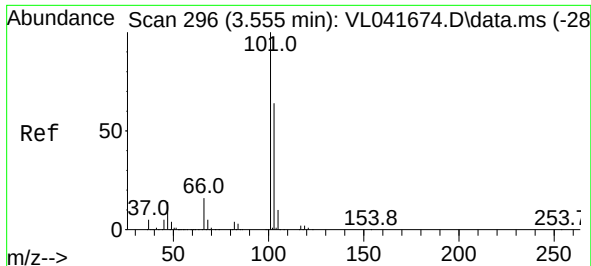
Tgt Ion: 43 Resp: 701

Ion Ratio Lower Upper

43 100

57 197.6 40.0 60.0#

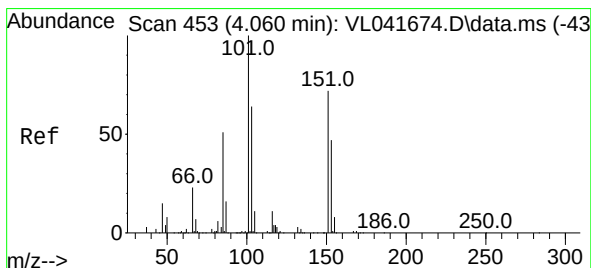
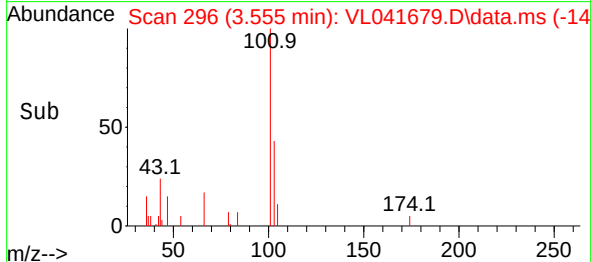
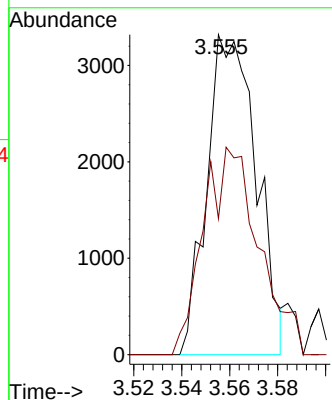
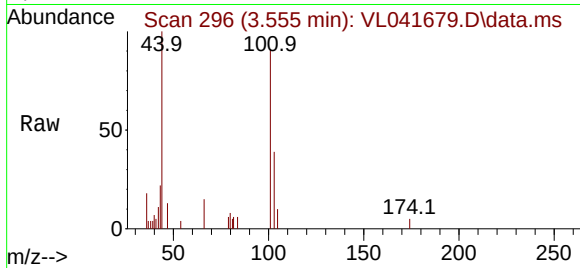




#11  
 Trichlorofluoromethane  
 Concen: 0.028 ppbv  
 RT: 3.555 min Scan# 296  
 Delta R.T. 0.000 min  
 Lab File: VL041679.D  
 Acq: 7 Nov 2024 13:31

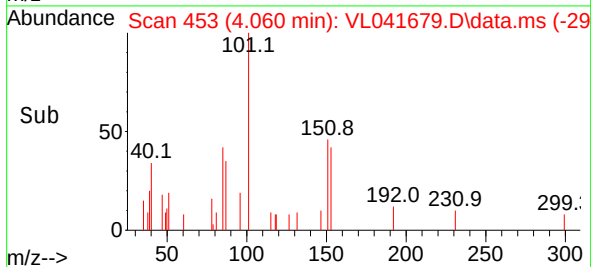
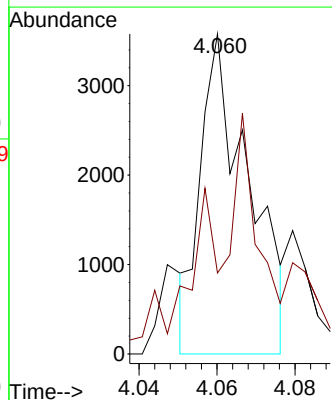
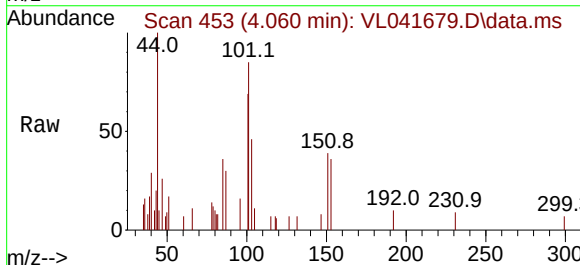
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.03

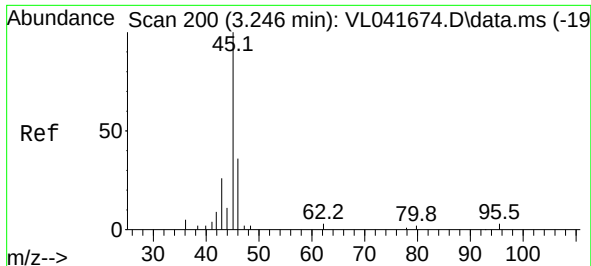
Tgt Ion:101 Resp: 4735  
 Ion Ratio Lower Upper  
 101 100  
 103 35.8 51.0 76.6#



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.025 ppbv  
 RT: 4.060 min Scan# 453  
 Delta R.T. 0.000 min  
 Lab File: VL041679.D  
 Acq: 7 Nov 2024 13:31

Tgt Ion:101 Resp: 3059  
 Ion Ratio Lower Upper  
 101 100  
 151 95.3 59.1 88.7#





#13

Ethanol

Concen: 0.050 ppbv

RT: 3.263 min Scan# 205

Delta R.T. 0.016 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

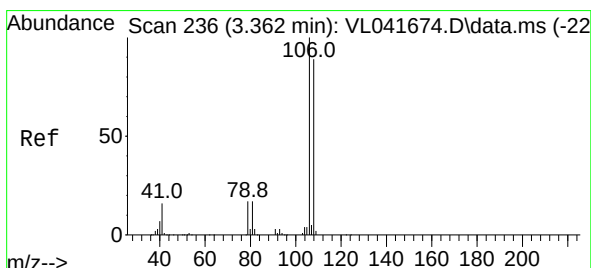
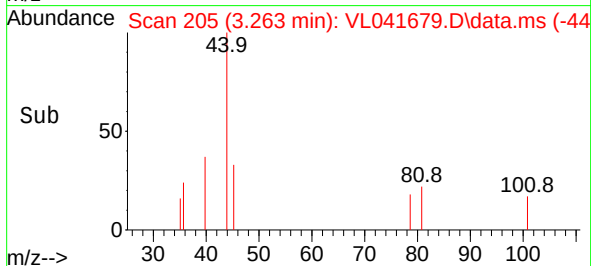
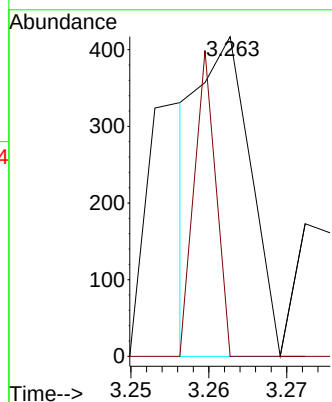
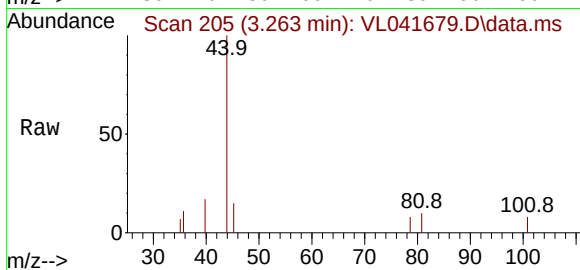
VSTDICC0.03

Tgt Ion: 45 Resp: 191

Ion Ratio Lower Upper

45 100

46 40.3 13.8 55.2



#14

Bromoethene

Concen: 0.015 ppbv

RT: 3.366 min Scan# 237

Delta R.T. 0.003 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

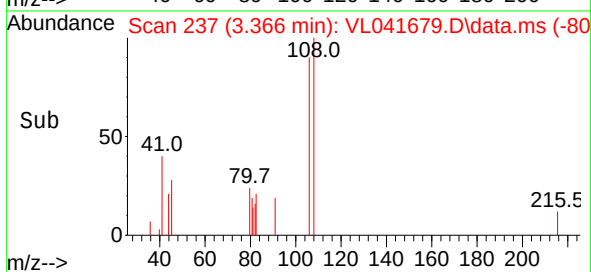
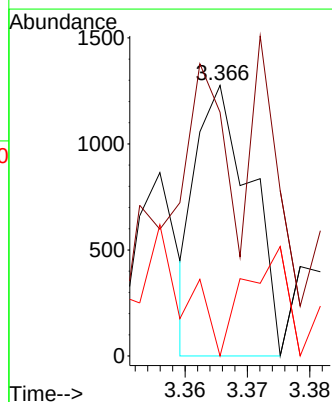
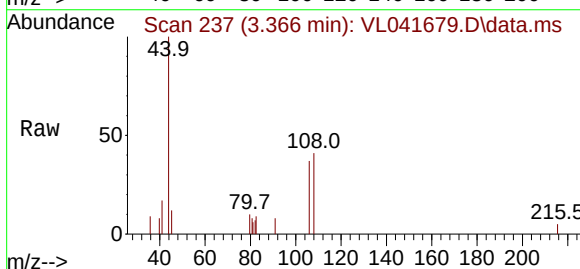
Tgt Ion: 108 Resp: 767

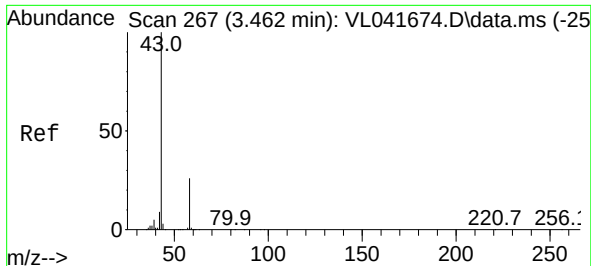
Ion Ratio Lower Upper

108 100

106 0.0 88.6 133.0#

79 0.0 15.6 23.4#





#15

Acetone

Concen: 0.002 ppbv

RT: 3.462 min Scan# 2

Delta R.T. 0.000 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

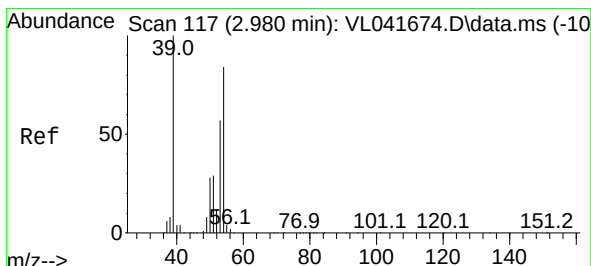
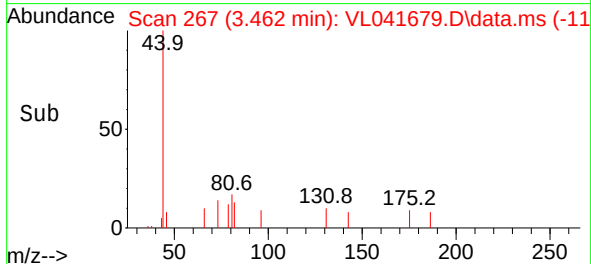
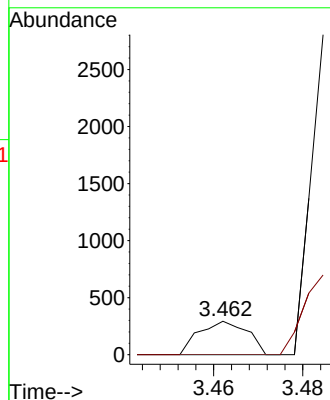
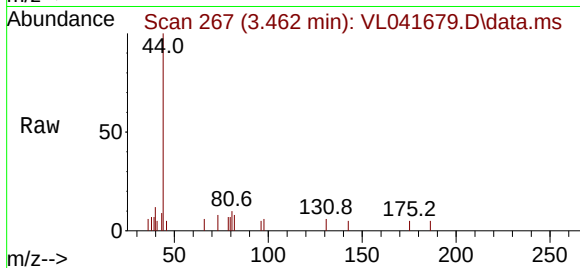
VSTDICC0.03

Tgt Ion: 43 Resp: 221

Ion Ratio Lower Upper

43 100

58 0.0 21.4 32.0#



#16

1,3-Butadiene

Concen: 0.024 ppbv

RT: 2.980 min Scan# 117

Delta R.T. 0.000 min

Lab File: VL041679.D

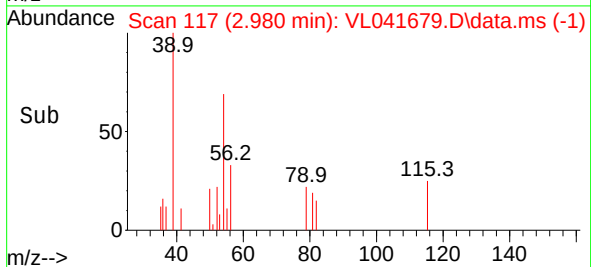
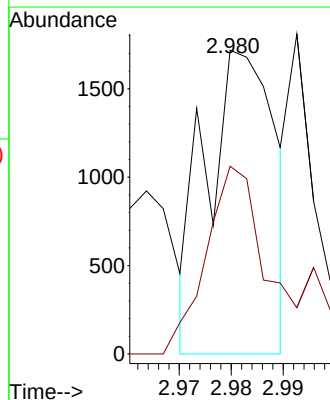
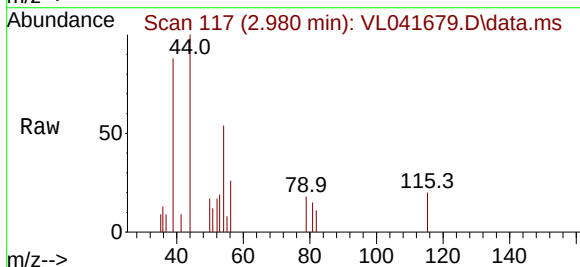
Acq: 7 Nov 2024 13:31

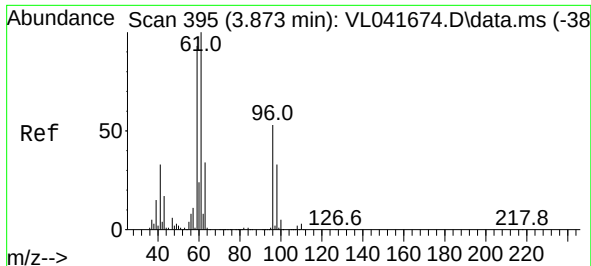
Tgt Ion: 39 Resp: 1582

Ion Ratio Lower Upper

39 100

54 70.1 61.3 91.9





#17

tert-Butyl alcohol

Concen: 0.001 ppbv

RT: 3.870 min Scan# 395

Delta R.T. -0.003 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

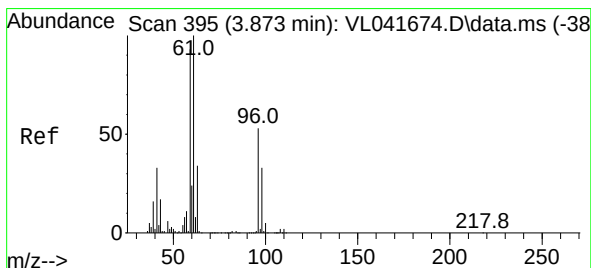
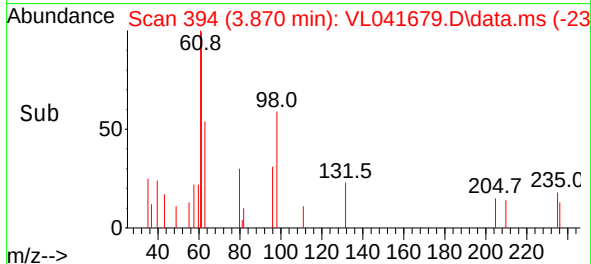
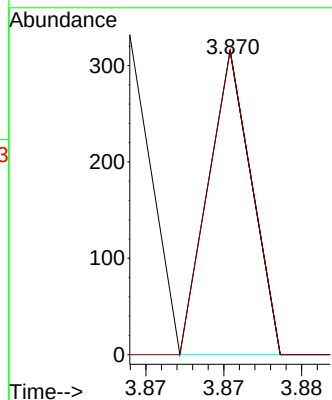
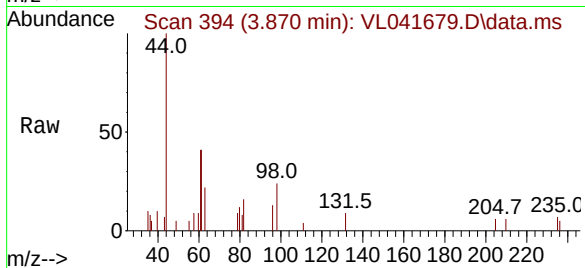
VSTDICC0.03

Tgt Ion: 59 Resp: 61

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#18

1,1-Dichloroethene

Concen: 0.020 ppbv

RT: 3.877 min Scan# 396

Delta R.T. 0.003 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

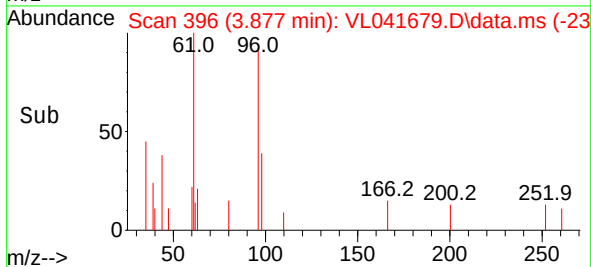
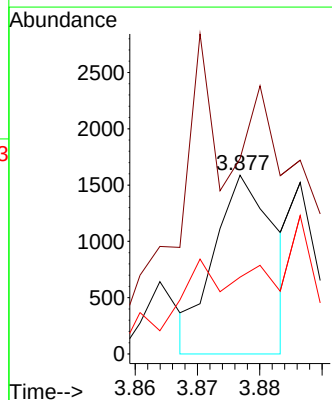
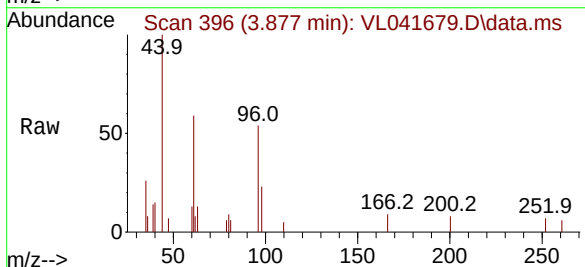
Tgt Ion: 96 Resp: 1065

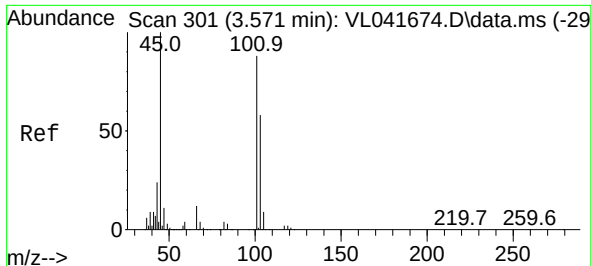
Ion Ratio Lower Upper

96 100

61 84.3 150.7 226.1#

98 16.7 49.4 74.2#





#19

Isopropyl Alcohol

Concen: 0.002 ppbv

RT: 3.578 min Scan# 301

Delta R.T. 0.007 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

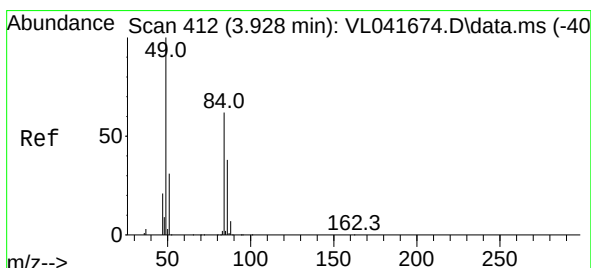
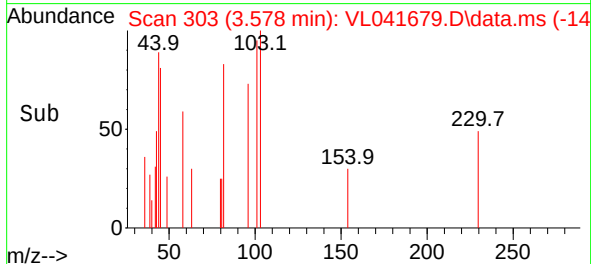
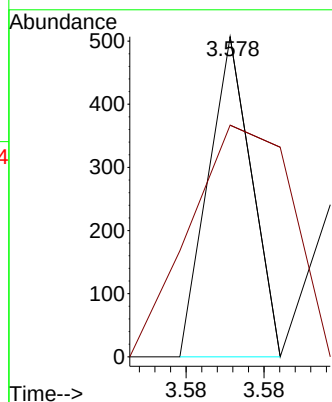
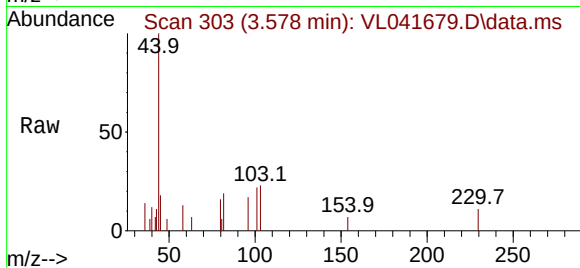
VSTDIC0.03

Tgt Ion: 45 Resp: 98

Ion Ratio Lower Upper

45 100

58 0.0 2.5 3.7#



#20

Methylene Chloride

Concen: 0.162 ppbv

RT: 3.932 min Scan# 413

Delta R.T. 0.003 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Tgt Ion: 84 Resp: 7989

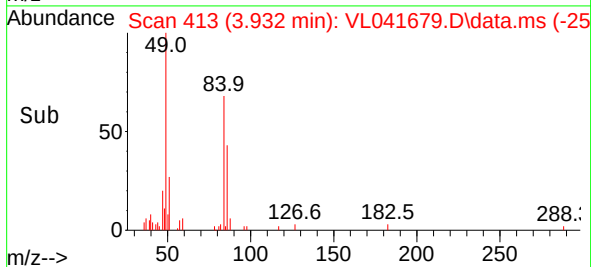
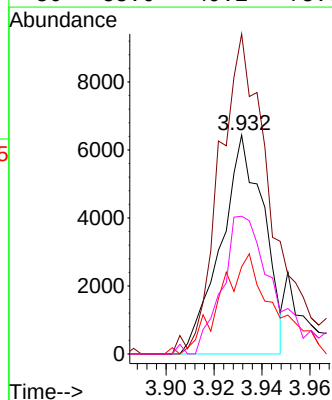
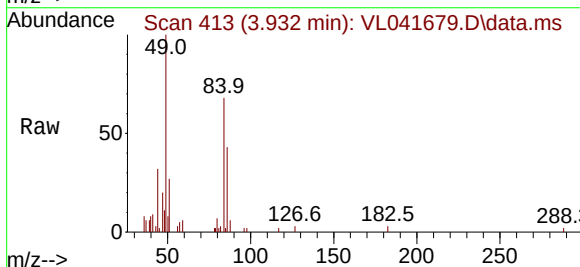
Ion Ratio Lower Upper

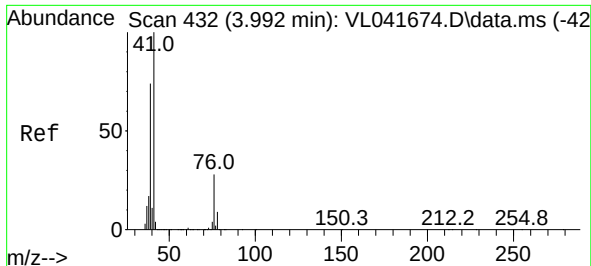
84 100

49 137.8 129.7 194.5

51 39.8 39.8 59.6

86 58.6 49.1 73.7





#21

Allyl Chloride

Concen: 0.014 ppbv

RT: 3.996 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.03

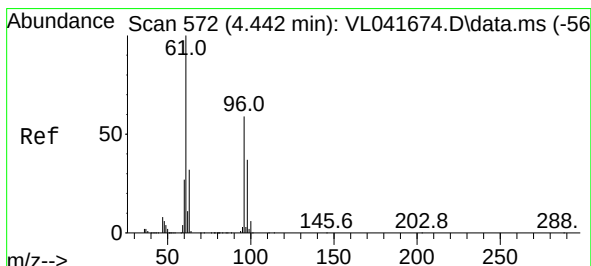
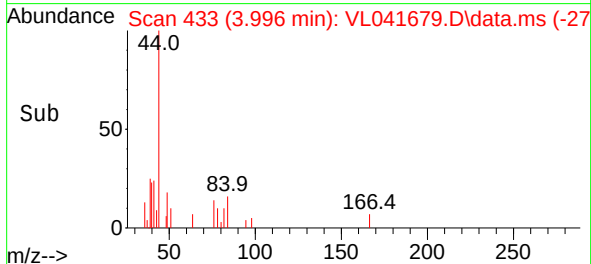
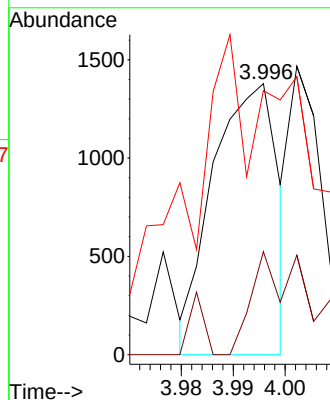
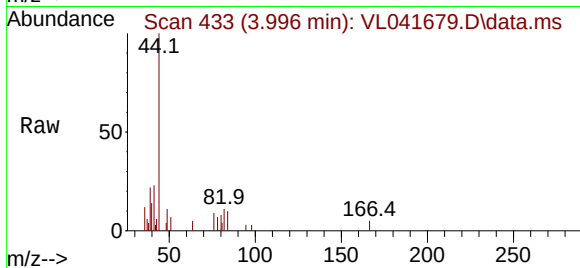
Tgt Ion: 41 Resp: 1190

Ion Ratio Lower Upper

41 100

76 36.8 23.5 35.3#

39 258.9 63.0 94.4#



#22

trans-1,2-Dichloroethene

Concen: 0.010 ppbv

RT: 4.449 min Scan# 574

Delta R.T. 0.007 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

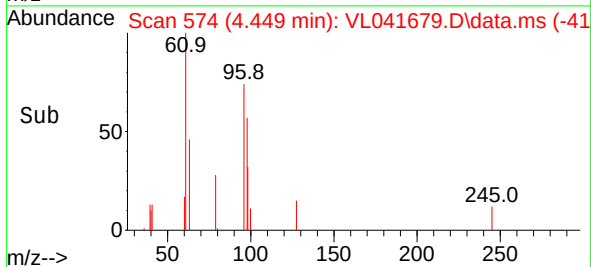
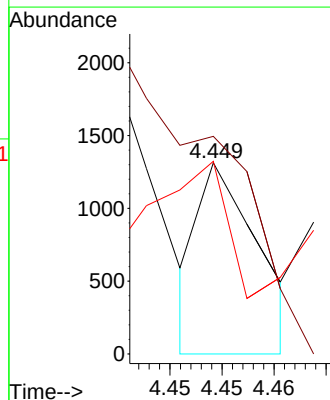
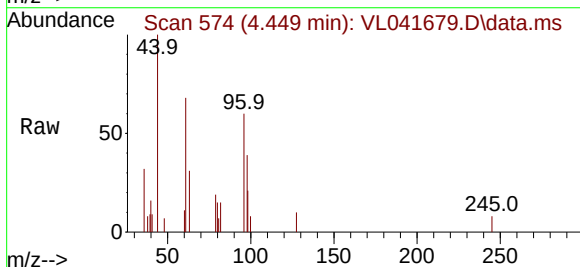
Tgt Ion: 96 Resp: 520

Ion Ratio Lower Upper

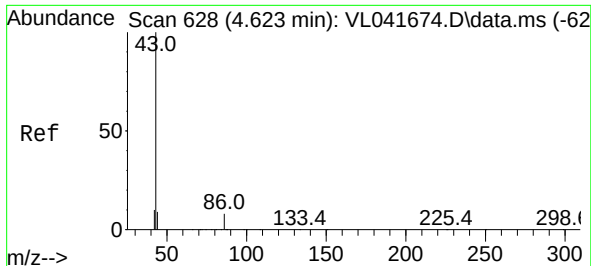
96 100

61 127.4 134.5 201.7#

98 97.3 49.6 74.4#





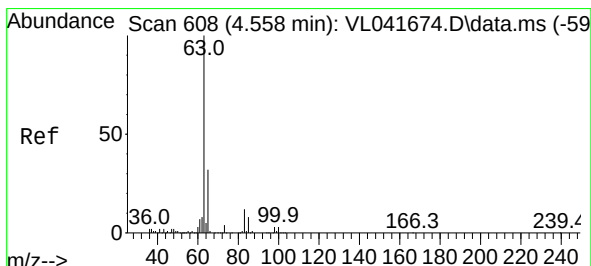
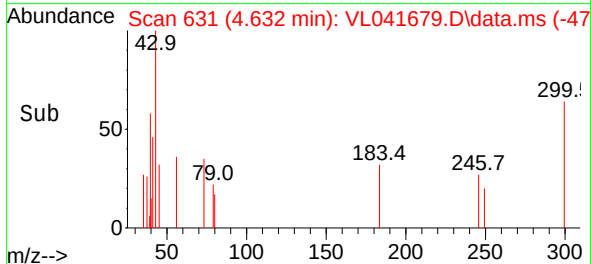
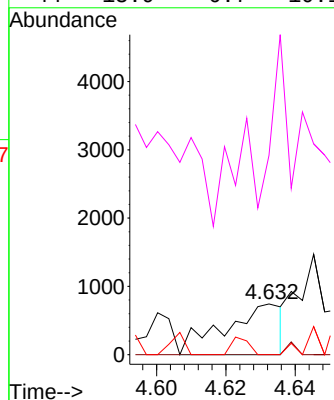
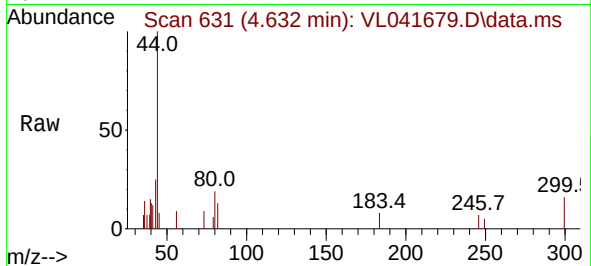


#23  
Vinyl Acetate  
Concen: 0.014 ppbv  
RT: 4.632 min Scan# 610  
Delta R.T. 0.010 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

Tgt Ion: 43 Resp: 855

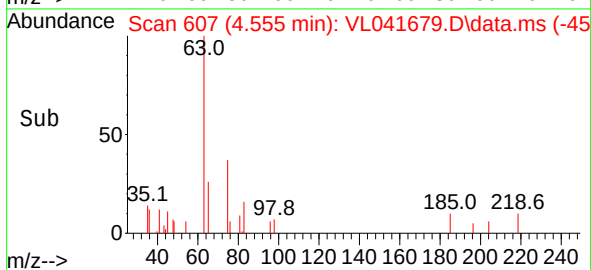
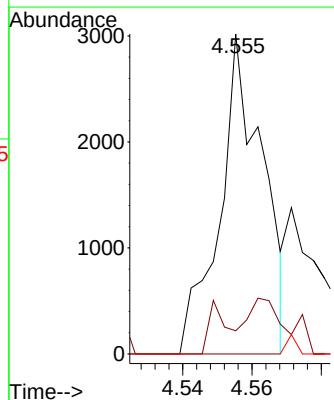
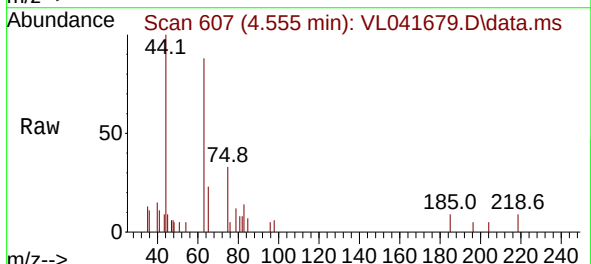
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 0.0   | 5.3   | 7.9#  |
| 42  | 0.0   | 8.5   | 12.7# |
| 44  | 13.9  | 6.7   | 10.1# |

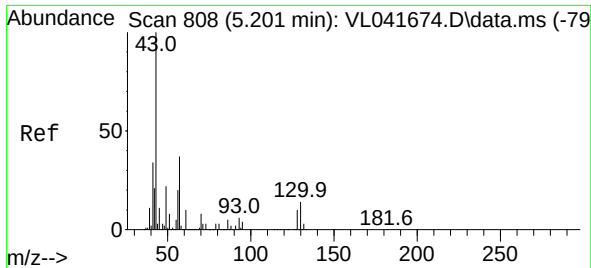


#24  
1,1-Dichloroethane  
Concen: 0.021 ppbv  
RT: 4.555 min Scan# 607  
Delta R.T. -0.003 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion: 63 Resp: 2589

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 7.3   | 1.8   | 5.4#  |
| 100 | 0.0   | 1.4   | 4.2#  |

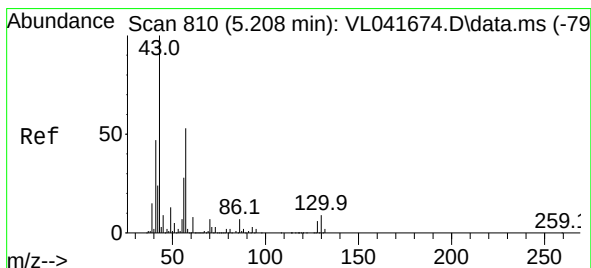
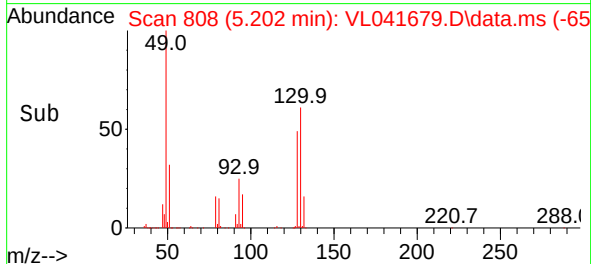
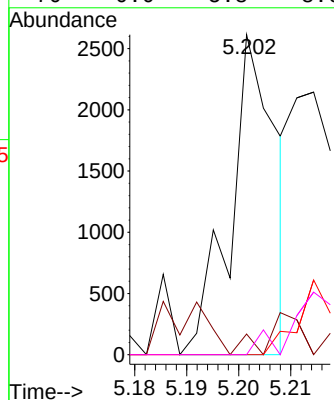
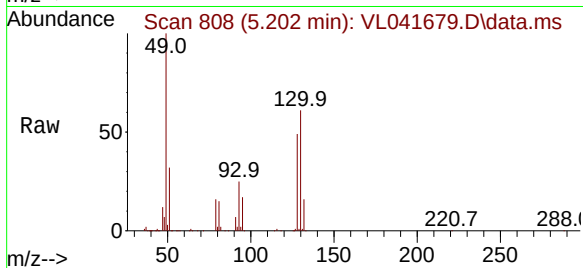




#25  
Ethyl Acetate  
Concen: 0.006 ppbv  
RT: 5.202 min Scan# 808  
Delta R.T. 0.000 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

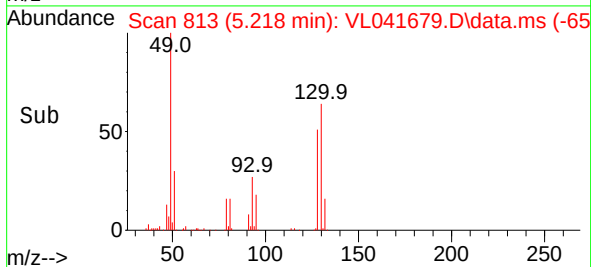
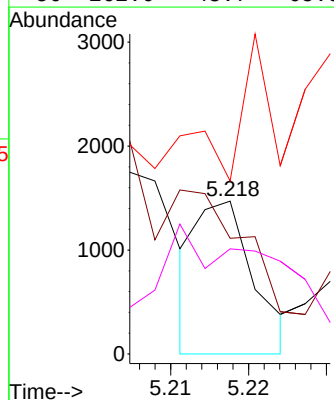
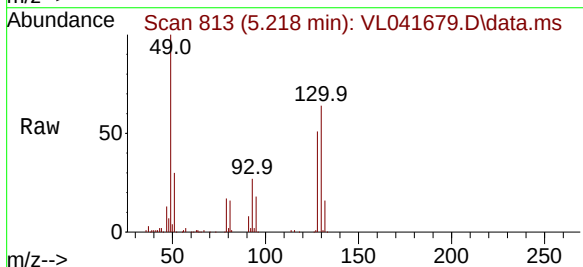
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

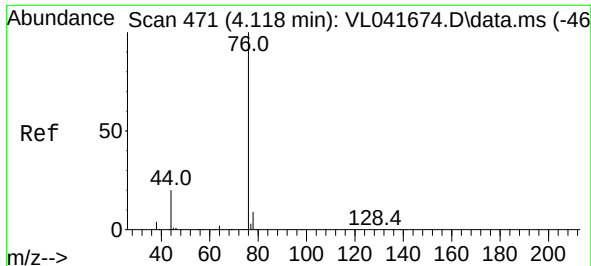
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1588  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 0.0   | 8.6   | 13.0# |
| 61       | 0.0   | 8.4   | 12.6# |
| 70       | 0.0   | 5.8   | 8.6#  |



#26  
Hexane  
Concen: 0.007 ppbv  
RT: 5.218 min Scan# 813  
Delta R.T. 0.010 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 745    |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 0.0   | 76.1  | 114.1# |
| 43       | 958.1 | 207.0 | 310.6# |
| 56       | 262.0 | 43.7  | 65.5#  |

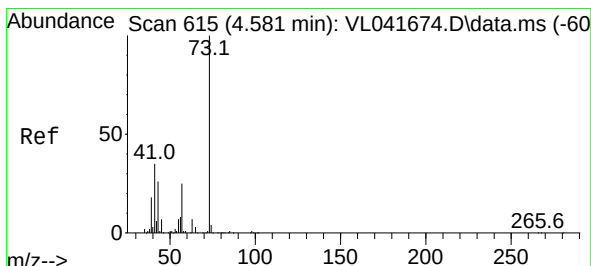
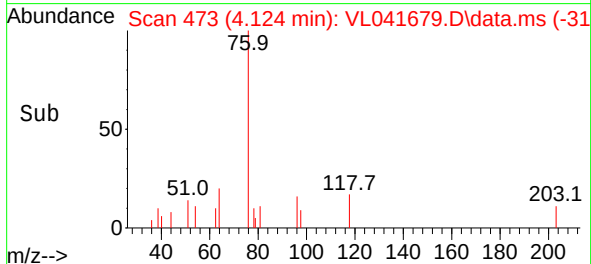
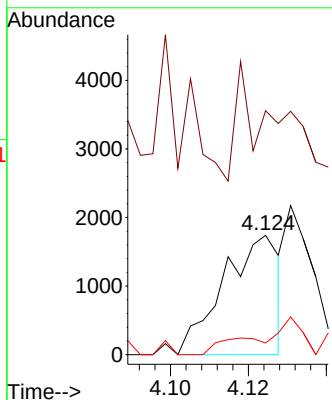
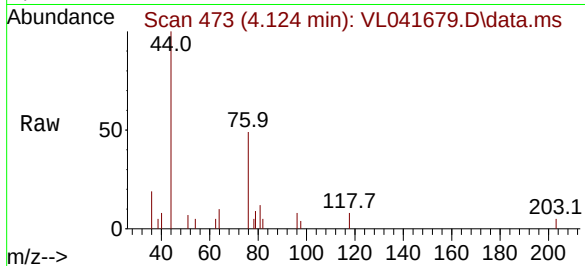




#27  
Carbon Disulfide  
Concen: 0.015 ppbv  
RT: 4.124 min Scan# 41  
Delta R.T. 0.007 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

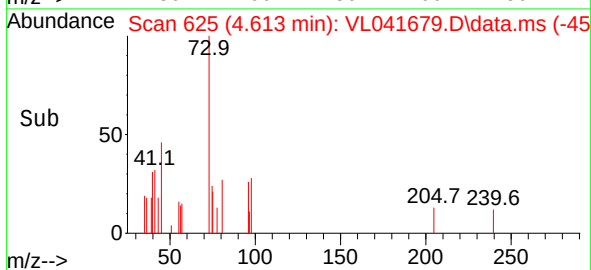
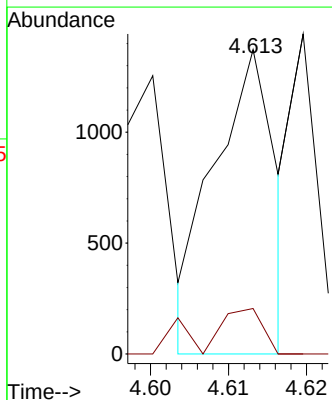
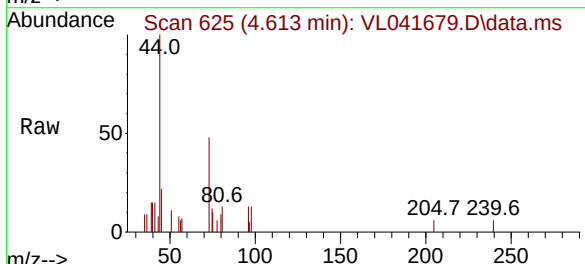
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

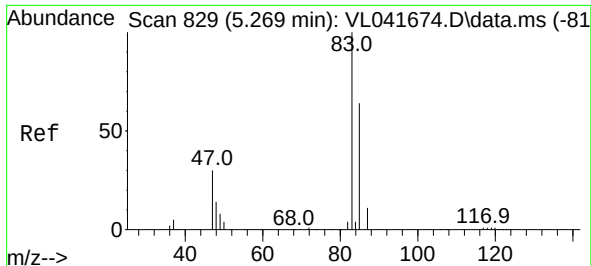
Tgt Ion: 76 Resp: 1735  
Ion Ratio Lower Upper  
76 100  
44 273.2 15.8 23.8#  
78 0.0 7.5 11.3#



#28  
Methyl tert-Butyl Ether  
Concen: 0.011 ppbv  
RT: 4.613 min Scan# 625  
Delta R.T. 0.032 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion: 73 Resp: 754  
Ion Ratio Lower Upper  
73 100  
57 22.5 19.6 29.4





#29

Chloroform

Concen: 0.002 ppbv

RT: 5.292 min Scan# 81

Delta R.T. 0.023 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

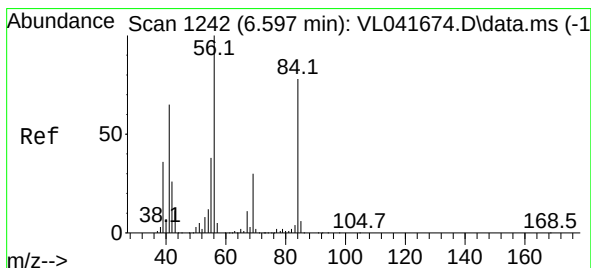
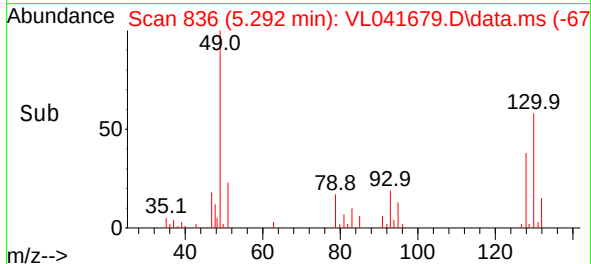
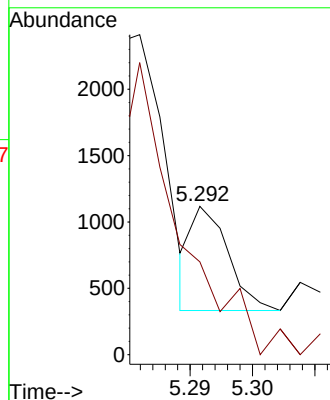
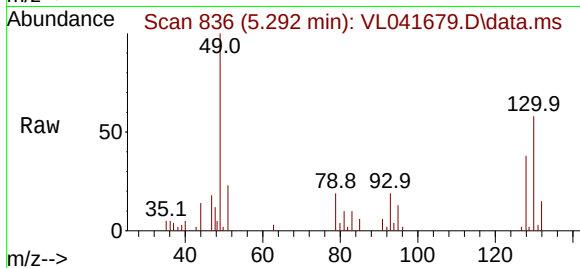
VSTDICC0.03

Tgt Ion: 83 Resp: 318

Ion Ratio Lower Upper

83 100

85 64.3 51.1 76.7



#30

Cyclohexane

Concen: 0.008 ppbv

RT: 6.603 min Scan# 1244

Delta R.T. 0.007 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

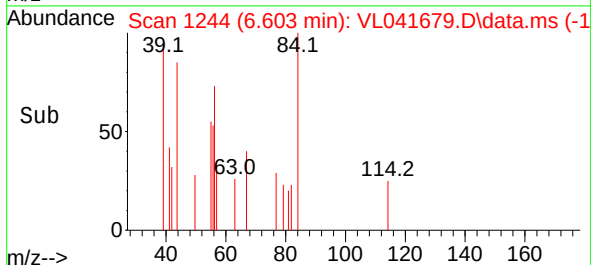
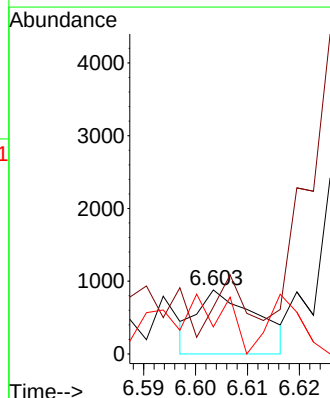
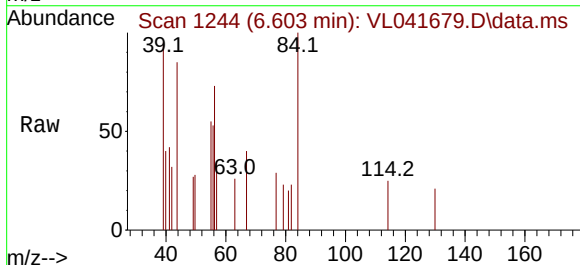
Tgt Ion: 84 Resp: 702

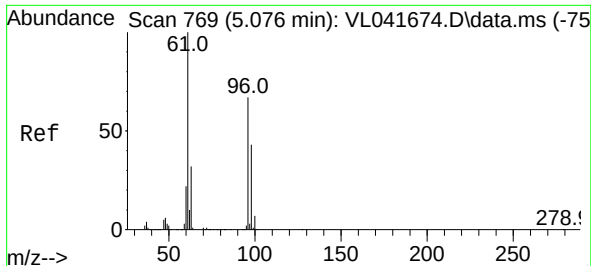
Ion Ratio Lower Upper

84 100

56 0.0 110.8 166.2#

41 180.5 70.0 105.0#

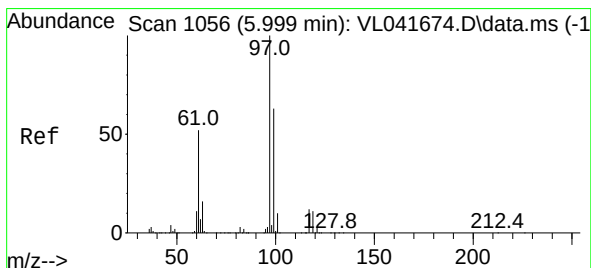
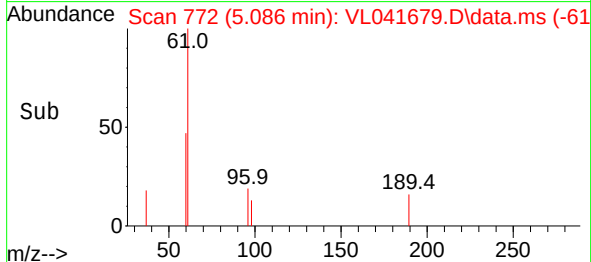
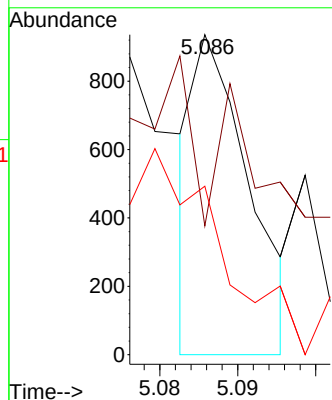
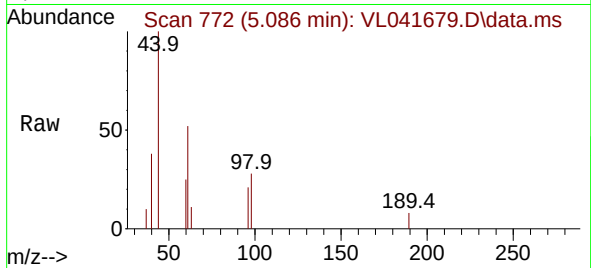




#31  
cis-1,2-Dichloroethene  
Concen: 0.004 ppbv  
RT: 5.086 min Scan# 71  
Delta R.T. 0.010 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

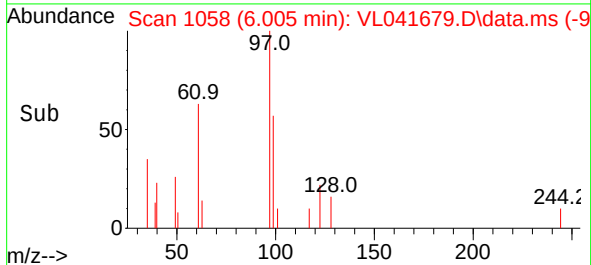
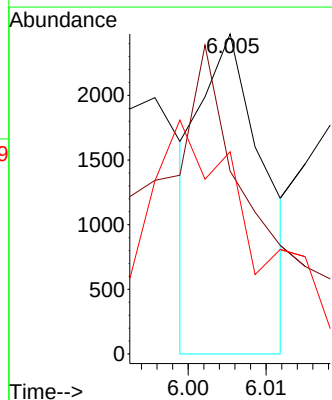
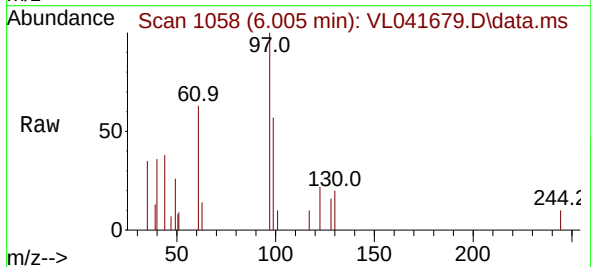
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

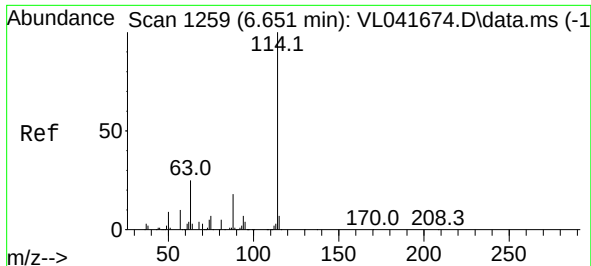
Tgt Ion: 61 Resp: 458  
Ion Ratio Lower Upper  
61 100  
96 0.0 53.4 80.2#  
98 44.9 34.0 51.0



#32  
1,1,1-Trichloroethane  
Concen: 0.009 ppbv  
RT: 6.005 min Scan# 1058  
Delta R.T. 0.007 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion: 97 Resp: 1403  
Ion Ratio Lower Upper  
97 100  
99 234.5 51.4 77.2#  
61 176.7 41.7 62.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

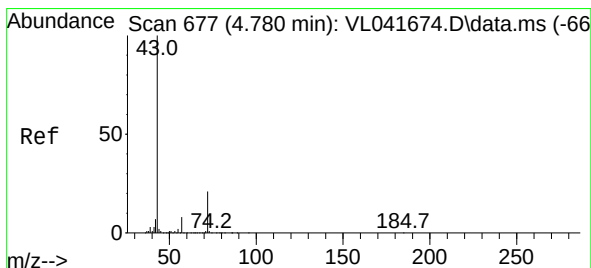
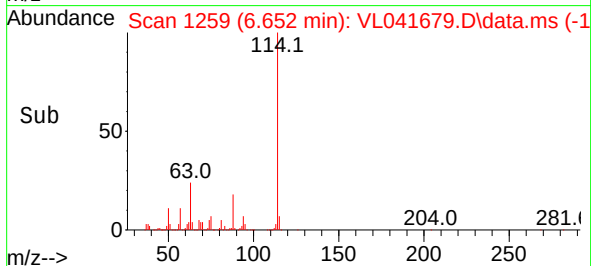
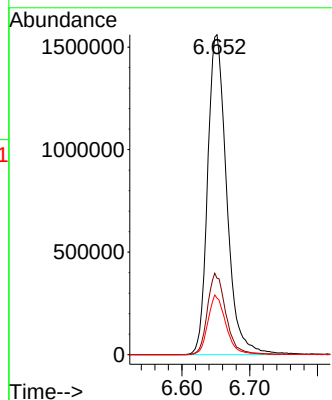
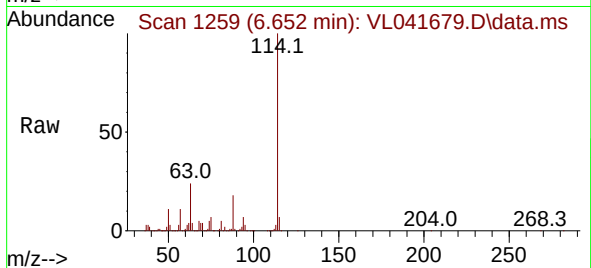
Tgt Ion:114 Resp: 3041887

Ion Ratio Lower Upper

114 100

63 24.9 20.3 30.5

88 17.8 14.2 21.4



#34

2-Butanone

Concen: 0.001 ppbv

RT: 4.755 min Scan# 669

Delta R.T. -0.025 min

Lab File: VL041679.D

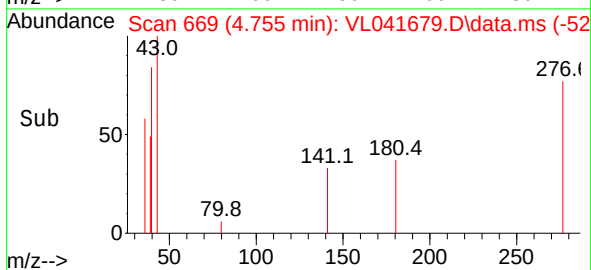
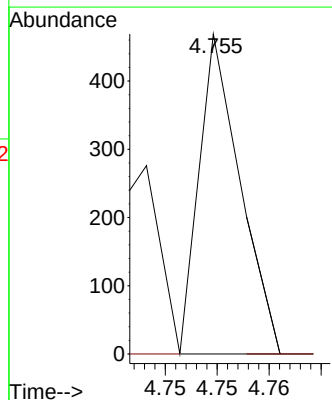
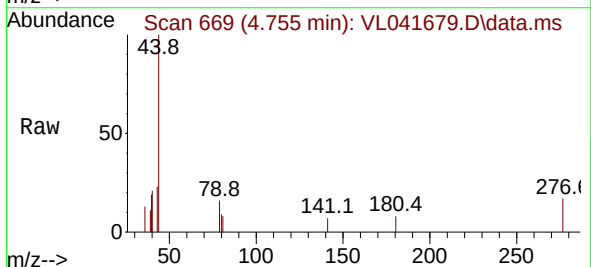
Acq: 7 Nov 2024 13:31

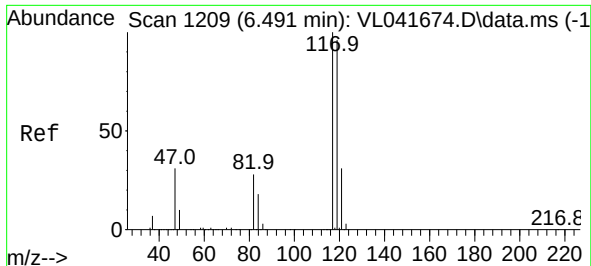
Tgt Ion: 43 Resp: 129

Ion Ratio Lower Upper

43 100

72 0.0 17.4 26.0#

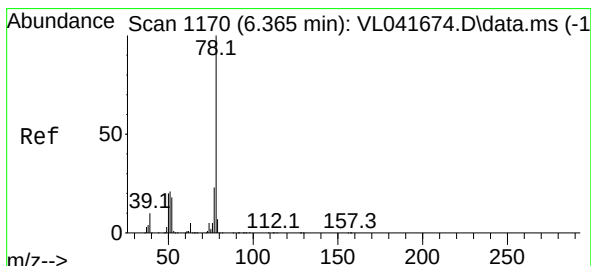
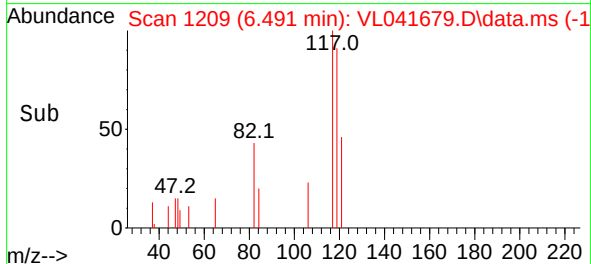
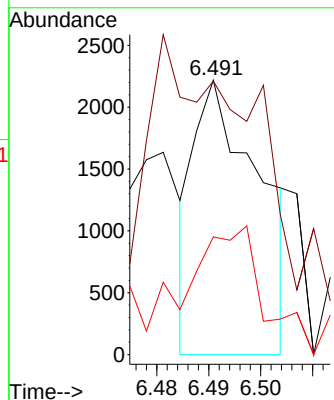
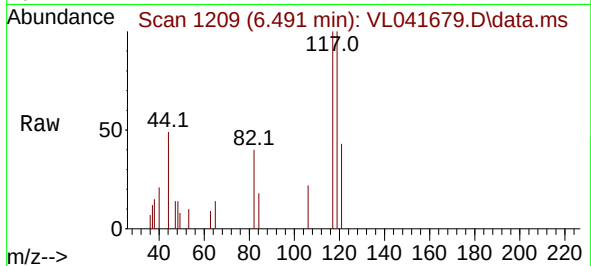




#35  
Carbon Tetrachloride  
Concen: 0.012 ppbv  
RT: 6.491 min Scan# 1170  
Delta R.T. 0.000 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

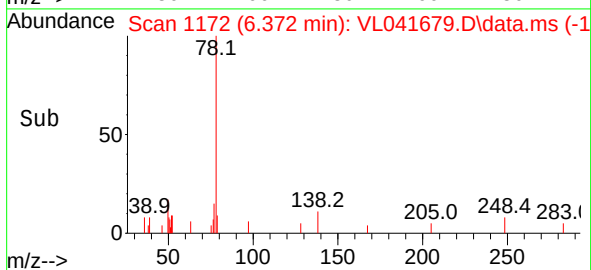
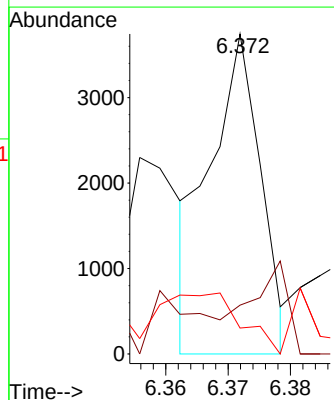
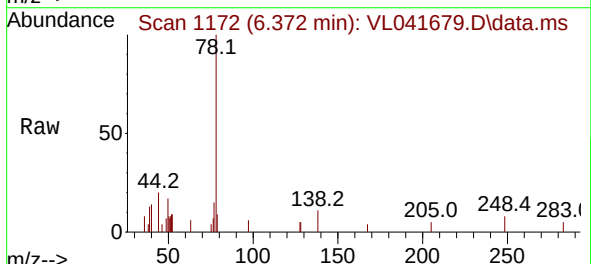
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

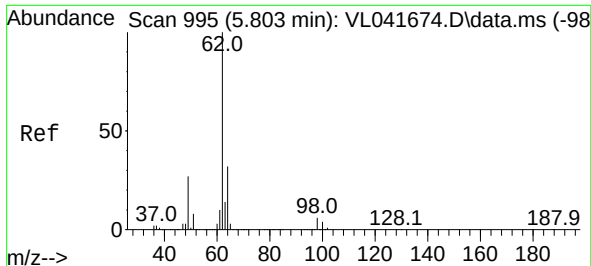
Tgt Ion:117 Resp: 1934  
Ion Ratio Lower Upper  
117 100  
119 110.3 77.2 115.8  
121 68.3 25.0 37.4#



#36  
Benzene  
Concen: 0.009 ppbv  
RT: 6.372 min Scan# 1172  
Delta R.T. 0.007 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion: 78 Resp: 2104  
Ion Ratio Lower Upper  
78 100  
77 0.0 18.5 27.7#  
50 8.6 15.6 23.4#

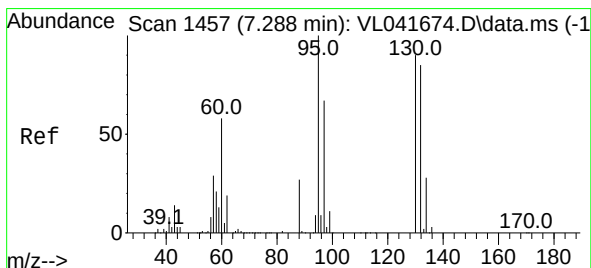
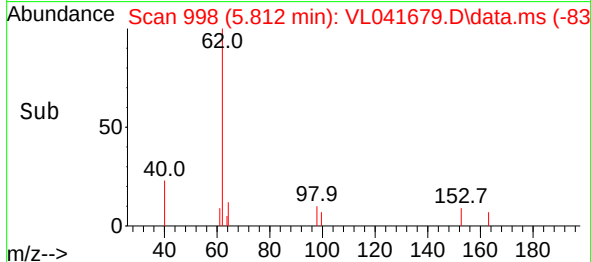
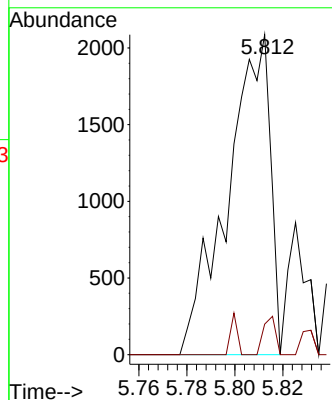
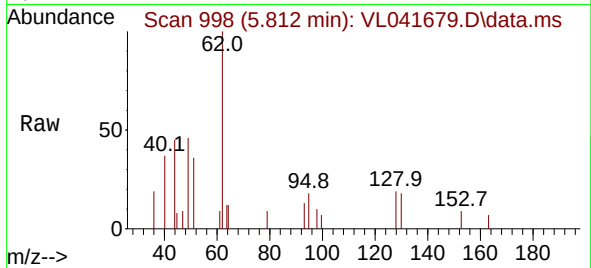




#37  
1,2-Dichloroethane  
Concen: 0.020 ppbv  
RT: 5.812 min Scan# 995  
Delta R.T. 0.010 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

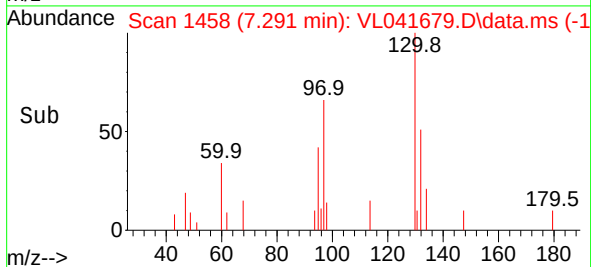
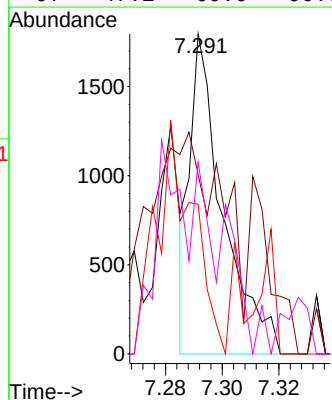
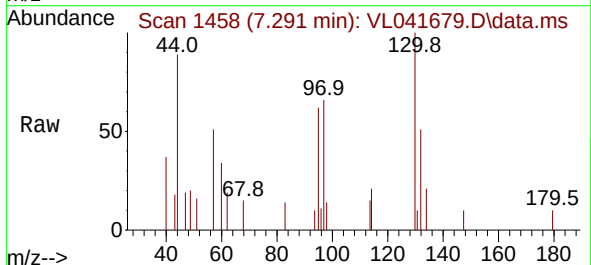
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

Tgt Ion: 62 Resp: 2581  
Ion Ratio Lower Upper  
62 100  
98 7.7 5.2 7.8

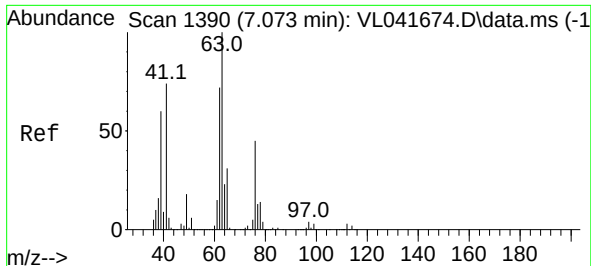


#38  
Trichloroethene  
Concen: 0.017 ppbv  
RT: 7.291 min Scan# 1458  
Delta R.T. 0.003 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion:130 Resp: 1440  
Ion Ratio Lower Upper  
130 100  
95 38.0 89.1 133.7#  
132 46.7 75.7 113.5#  
97 47.2 60.0 90.0#







#39

1,2-Dichloropropane

Concen: 8.427 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.424 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

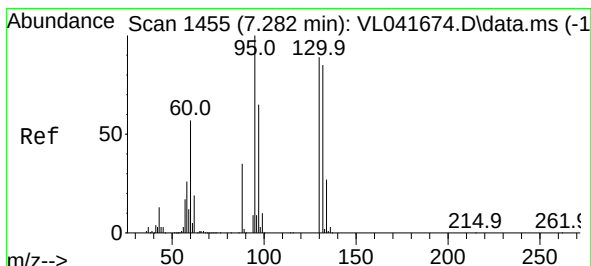
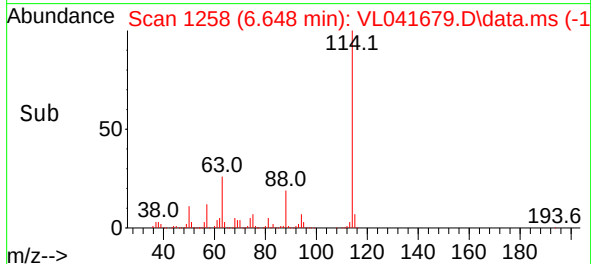
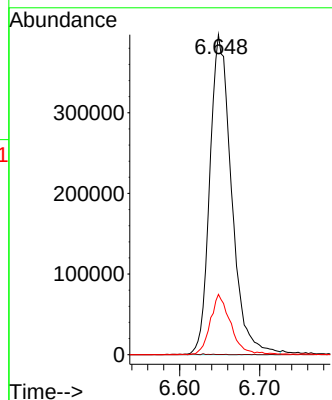
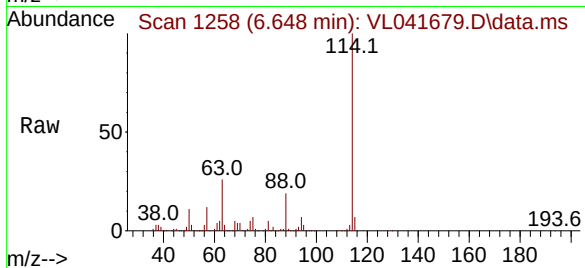
Tgt Ion: 63 Resp: 750579

Ion Ratio Lower Upper

63 100

41 0.1 59.1 88.7#

62 18.8 57.7 86.5#



#40

1,4-Dioxane

Concen: 0.001 ppbv

RT: 7.272 min Scan# 1452

Delta R.T. -0.009 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Tgt Ion: 88 Resp: 41

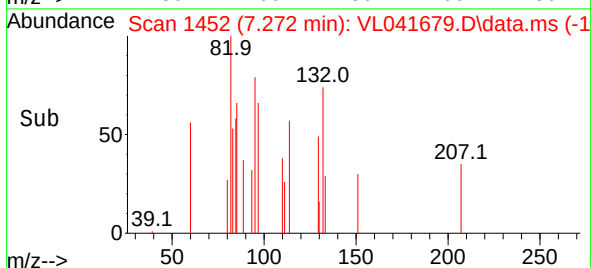
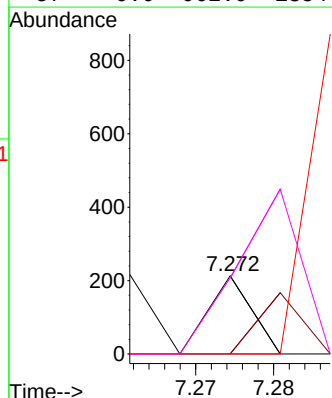
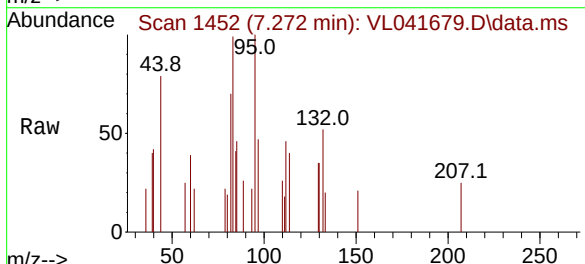
Ion Ratio Lower Upper

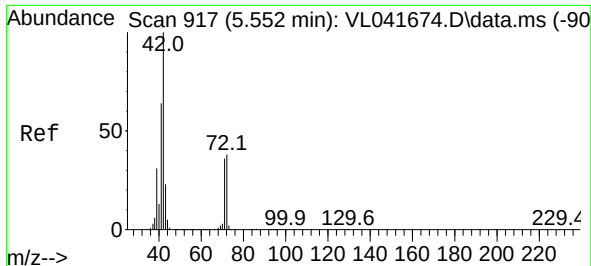
88 100

58 0.0 101.4 152.2#

43 0.0 208.0 312.0#

57 0.0 902.9 1354.3#





#41

Tetrahydrofuran

Concen: 0.014 ppbv

RT: 5.597 min Scan# 917

Delta R.T. 0.045 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

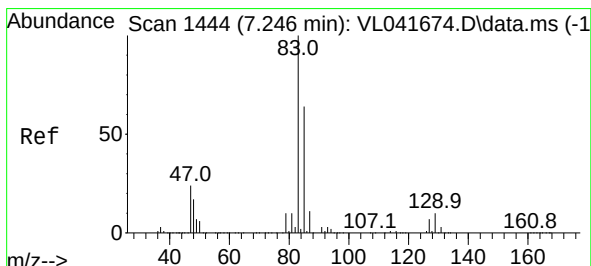
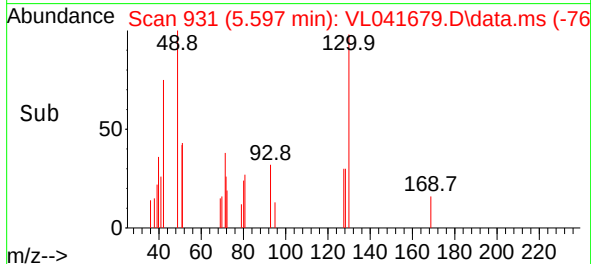
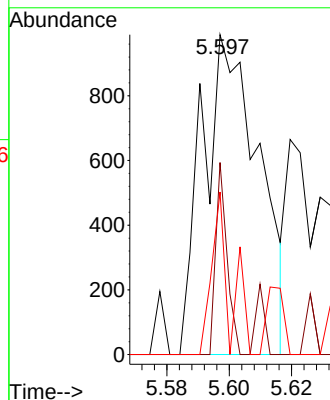
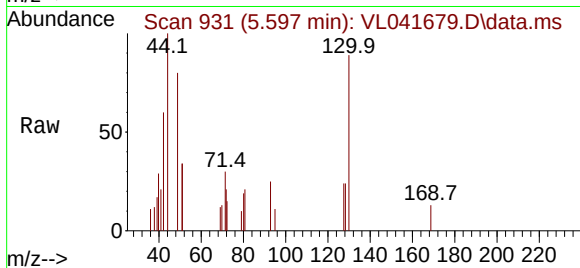
Tgt Ion: 42 Resp: 1248

Ion Ratio Lower Upper

42 100

72 18.3 29.8 44.6#

71 4.0 29.4 44.2#



#42

Bromodichloromethane

Concen: 0.008 ppbv

RT: 7.246 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

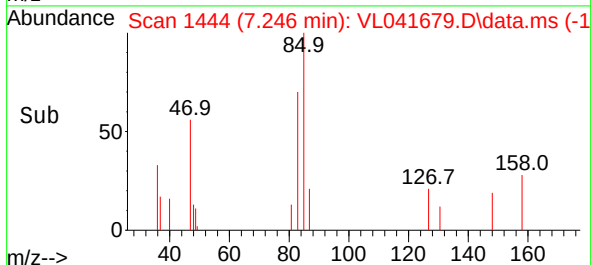
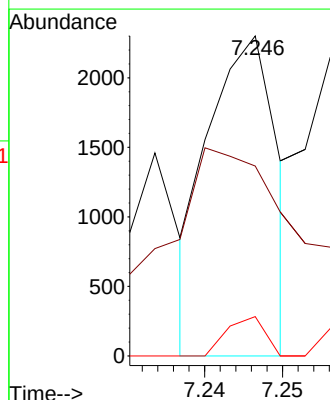
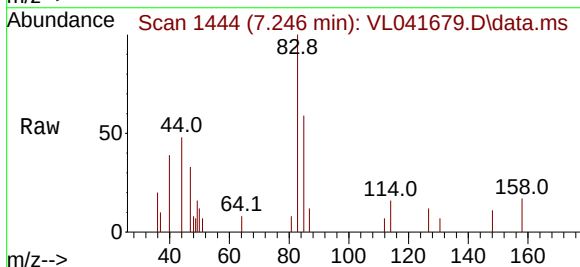
Tgt Ion: 83 Resp: 1411

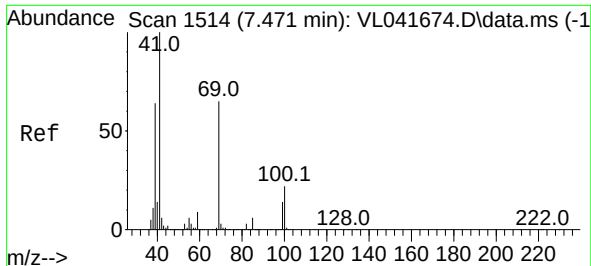
Ion Ratio Lower Upper

83 100

85 36.4 51.2 76.8#

127 19.5 6.0 9.0#





#43

Methyl Methacrylate

Concen: 0.003 ppbv

RT: 7.472 min Scan# 1514

Delta R.T. 0.000 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.03

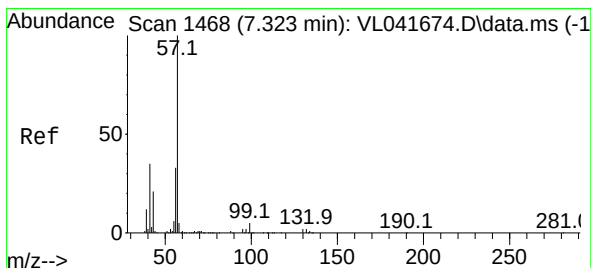
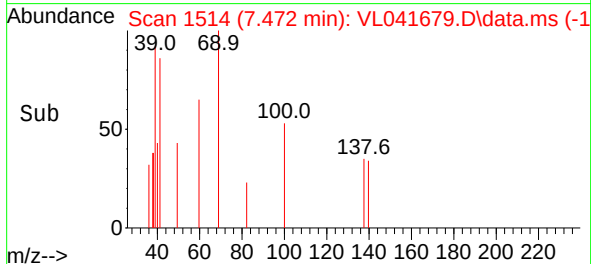
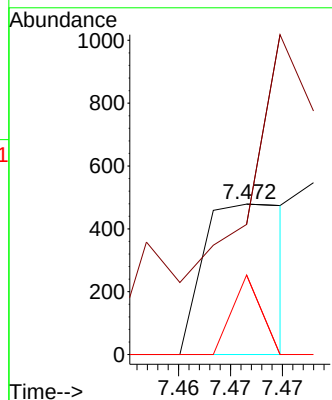
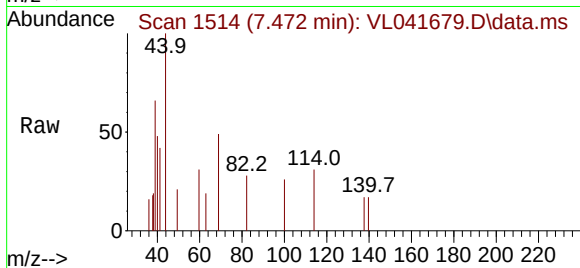
Tgt Ion: 69 Resp: 273

Ion Ratio Lower Upper

69 100

41 0.0 119.8 179.6#

100 0.0 27.3 40.9#



#44

2,2,4-Trimethylpentane

Concen: 0.003 ppbv

RT: 7.320 min Scan# 1467

Delta R.T. -0.003 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

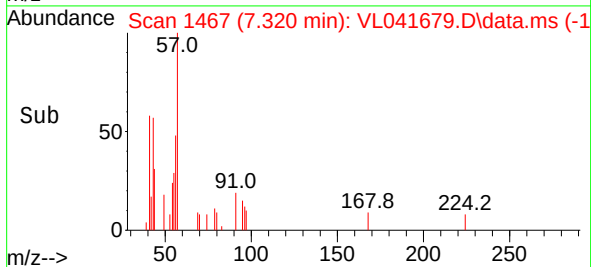
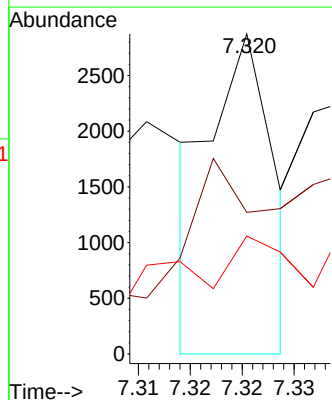
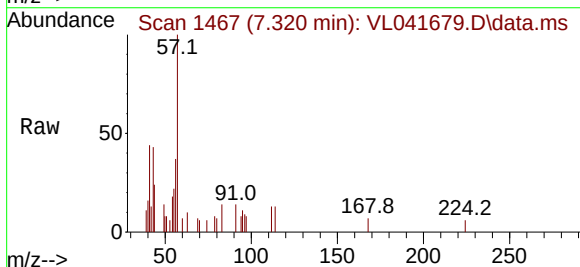
Tgt Ion: 57 Resp: 1208

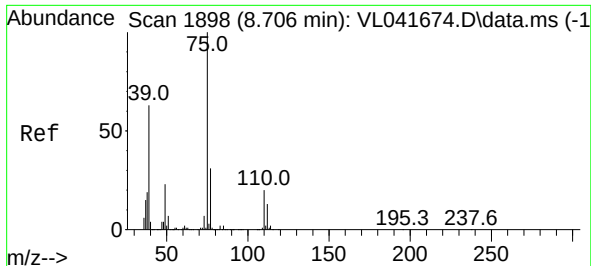
Ion Ratio Lower Upper

57 100

41 272.8 27.0 40.6#

56 0.0 25.8 38.6#





#45

t-1,3-Dichloropropene

Concen: 0.003 ppbv

RT: 8.706 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

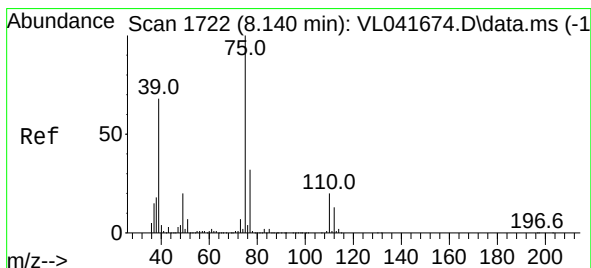
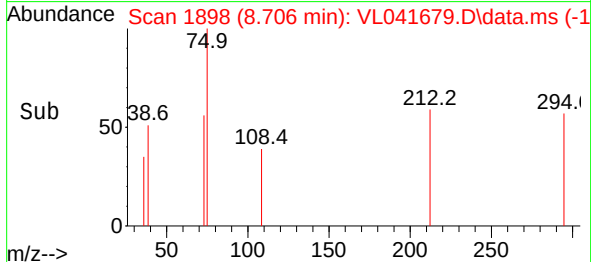
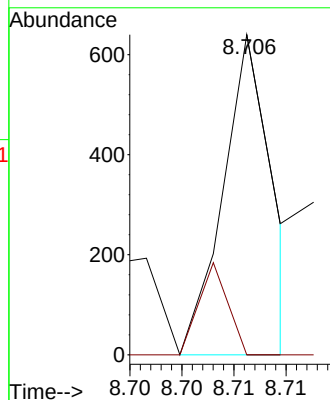
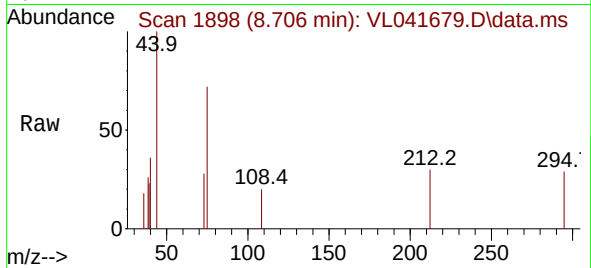
VSTDIC0.03

Tgt Ion: 75 Resp: 213

Ion Ratio Lower Upper

75 100

77 0.0 24.7 37.1#



#46

cis-1,3-Dichloropropene

Concen: 0.004 ppbv

RT: 8.147 min Scan# 1724

Delta R.T. 0.007 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

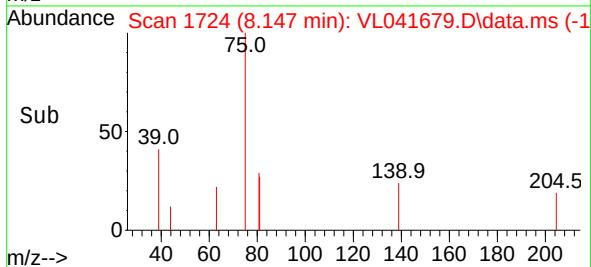
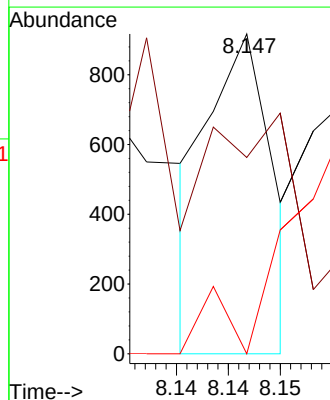
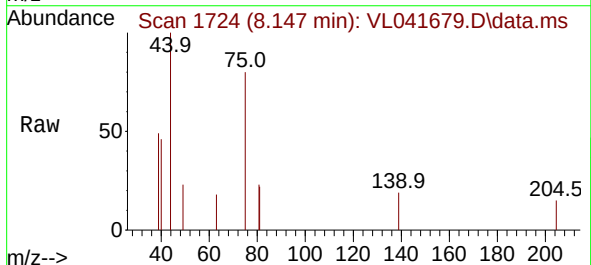
Tgt Ion: 75 Resp: 395

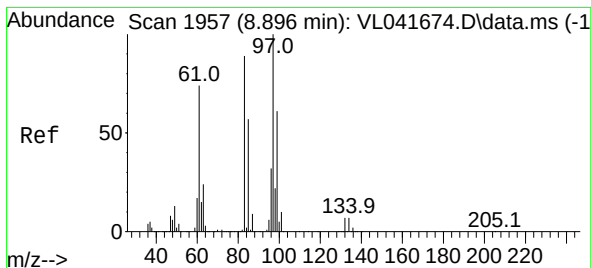
Ion Ratio Lower Upper

75 100

39 43.5 54.1 81.1#

77 0.0 25.3 37.9#





#47

1,1,2-Trichloroethane

Concen: 0.010 ppbv

RT: 8.896 min Scan# 1957

Delta R.T. 0.000 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.03

Tgt Ion: 97 Resp: 998

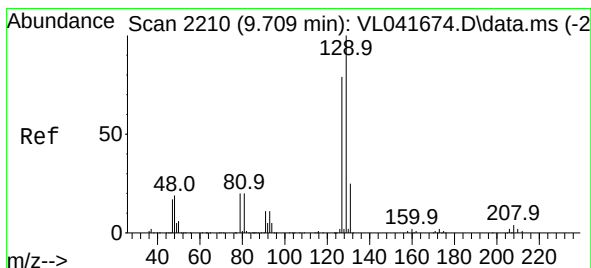
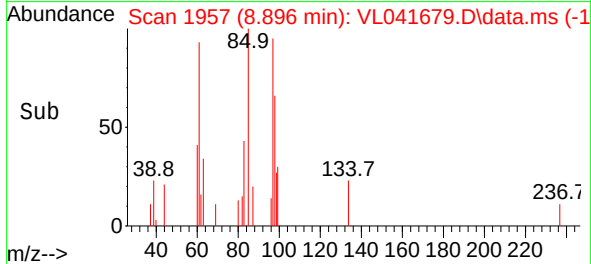
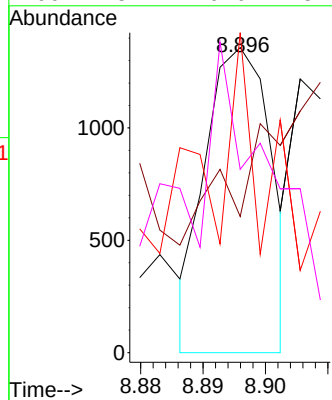
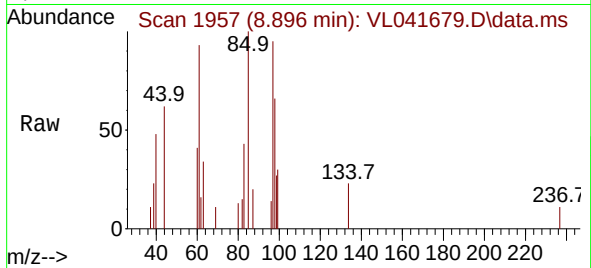
Ion Ratio Lower Upper

97 100

83 12.4 71.0 106.6#

85 49.7 45.4 68.2

99 8.4 49.0 73.6#



#48

Dibromochloromethane

Concen: 0.004 ppbv

RT: 9.716 min Scan# 2212

Delta R.T. 0.007 min

Lab File: VL041679.D

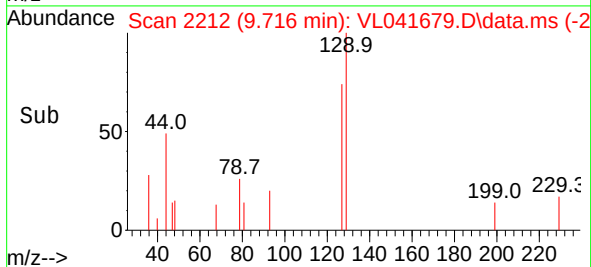
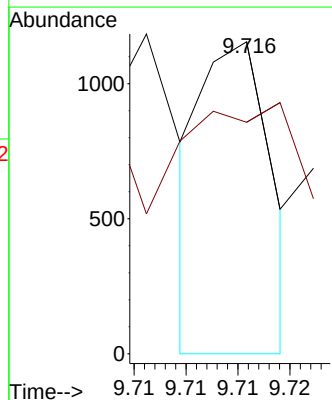
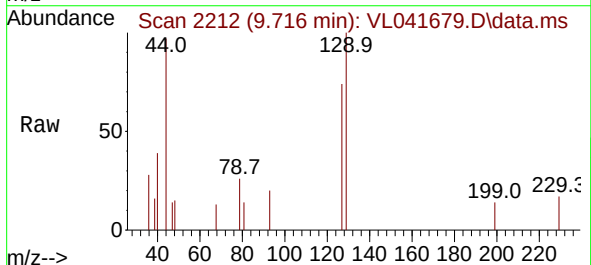
Acq: 7 Nov 2024 13:31

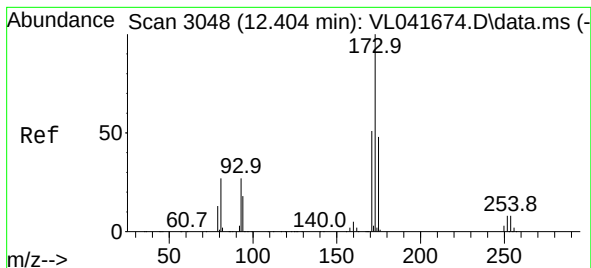
Tgt Ion: 129 Resp: 535

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#





#49

Bromoform

Concen: 0.006 ppbv

RT: 12.407 min Scan# 3048

Delta R.T. 0.003 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.03

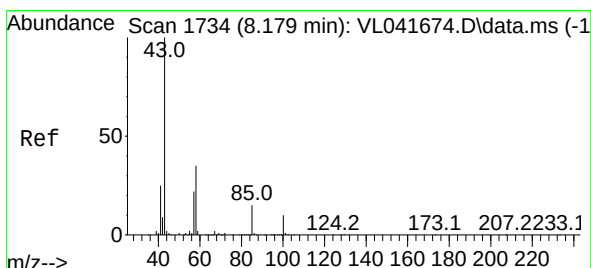
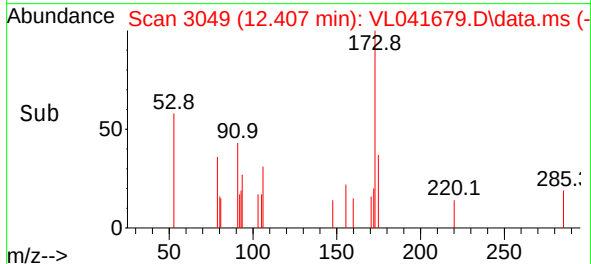
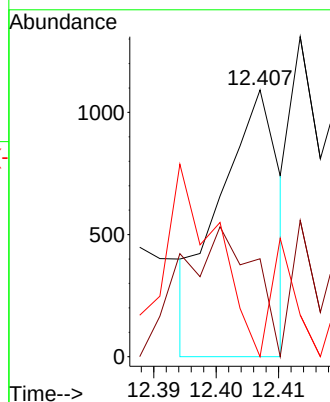
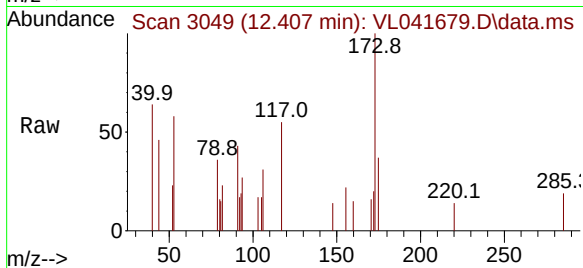
Tgt Ion:173 Resp: 728

Ion Ratio Lower Upper

173 100

175 0.0 39.2 58.8#

171 0.0 41.7 62.5#



#50

4-Methyl-2-Pentanone

Concen: 0.000 ppbv

RT: 8.163 min Scan# 1729

Delta R.T. -0.016 min

Lab File: VL041679.D

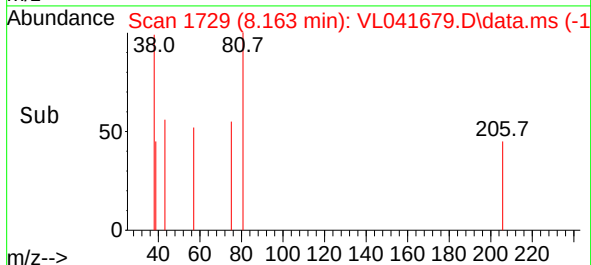
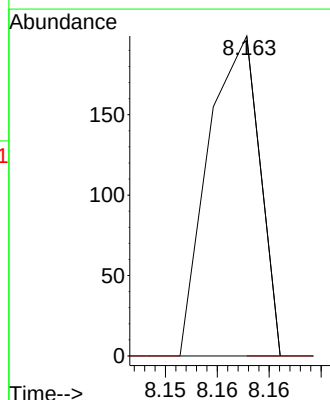
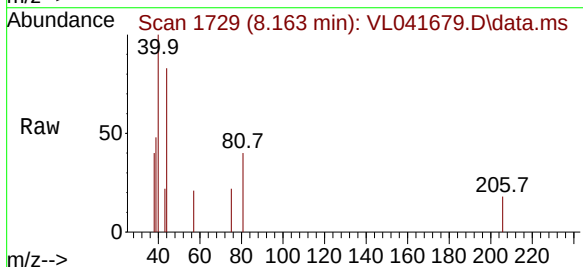
Acq: 7 Nov 2024 13:31

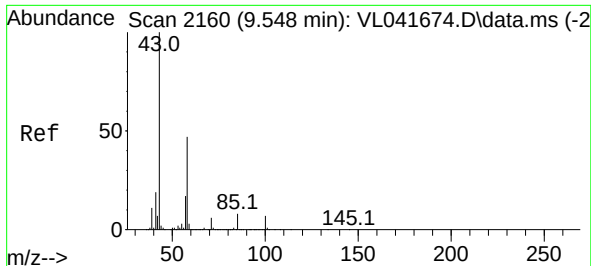
Tgt Ion: 43 Resp: 68

Ion Ratio Lower Upper

43 100

58 0.0 27.7 41.5#

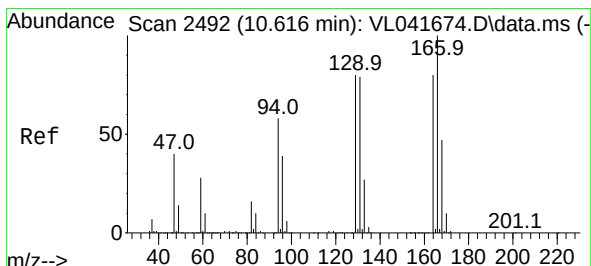
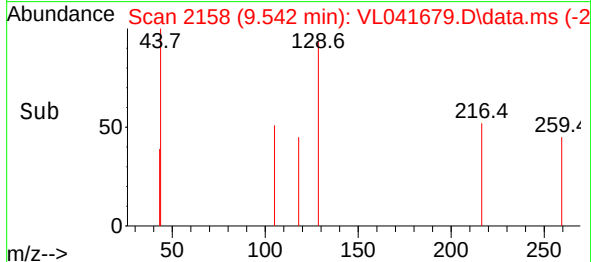
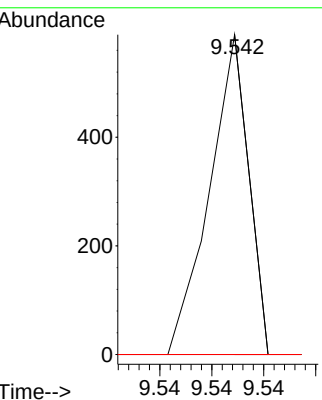
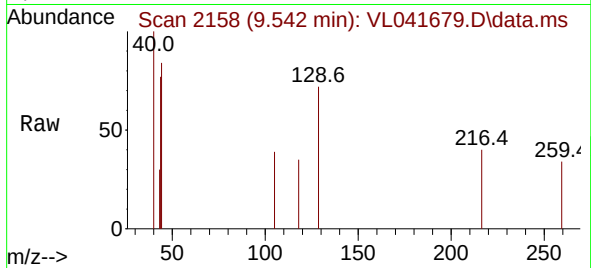




#51  
2-Hexanone  
Concen: 0.001 ppbv  
RT: 9.542 min Scan# 2160  
Delta R.T. -0.006 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

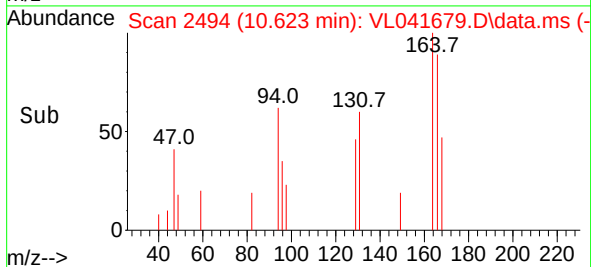
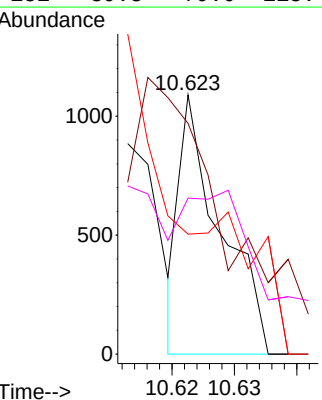
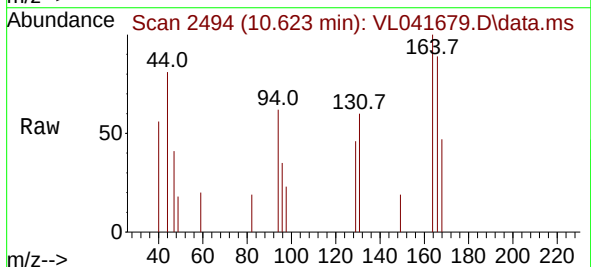
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

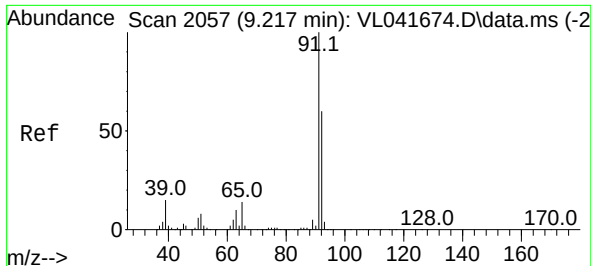
Tgt Ion: 43 Resp: 154  
Ion Ratio Lower Upper  
43 100  
58 0.0 37.0 55.6#  
98 0.0 0.6 0.8#



#52  
Tetrachloroethene  
Concen: 0.006 ppbv  
RT: 10.623 min Scan# 2494  
Delta R.T. 0.007 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion:164 Resp: 492  
Ion Ratio Lower Upper  
164 100  
166 61.5 100.2 150.4#  
129 0.9 79.7 119.5#  
131 39.3 79.0 118.4#





#53

Toluene

Concen: 0.002 ppbv

RT: 9.217 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

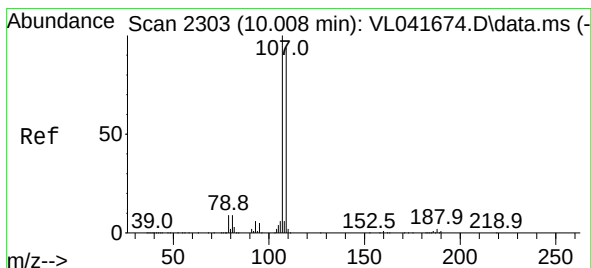
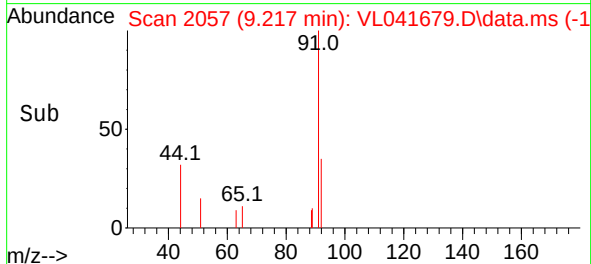
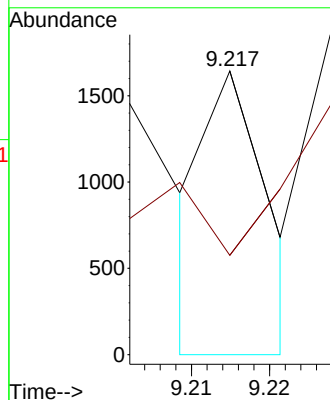
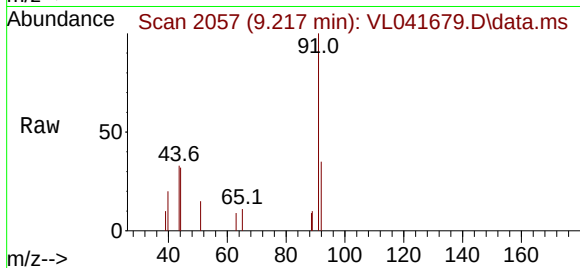
VSTDIC0.03

Tgt Ion: 91 Resp: 447

Ion Ratio Lower Upper

91 100

92 0.0 49.0 73.4#



#54

1,2-Dibromoethane

Concen: 0.001 ppbv

RT: 9.986 min Scan# 2296

Delta R.T. -0.022 min

Lab File: VL041679.D

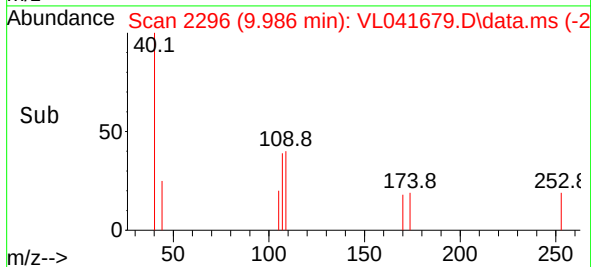
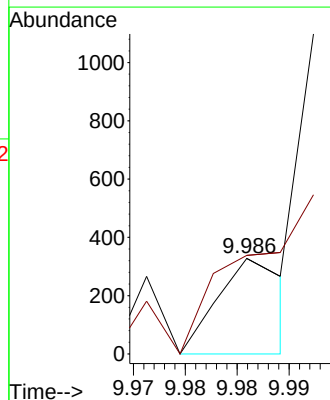
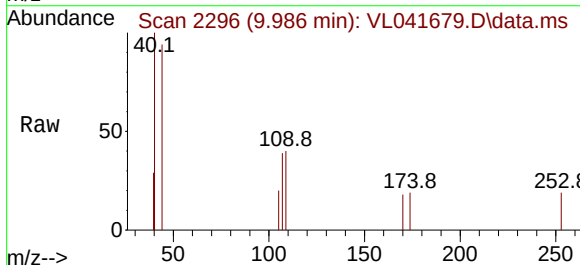
Acq: 7 Nov 2024 13:31

Tgt Ion: 107 Resp: 148

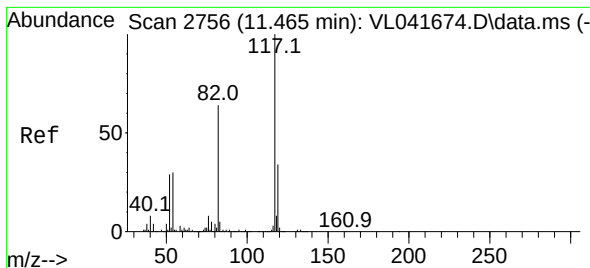
Ion Ratio Lower Upper

107 100

109 103.0 74.9 112.3



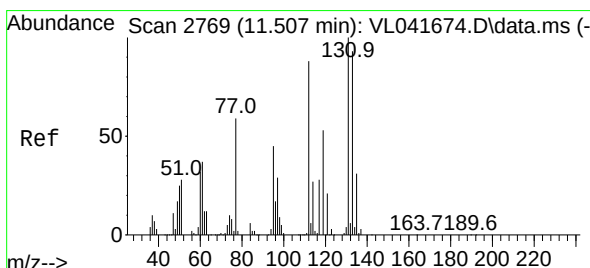
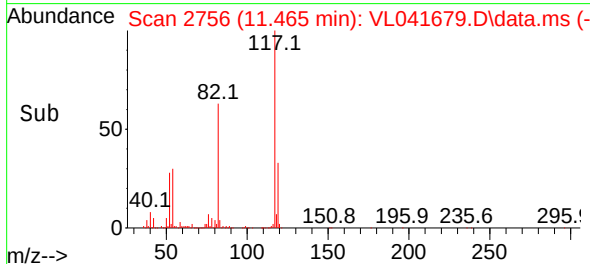
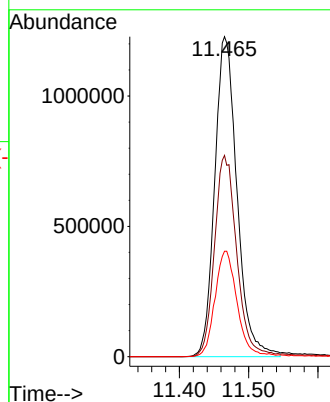
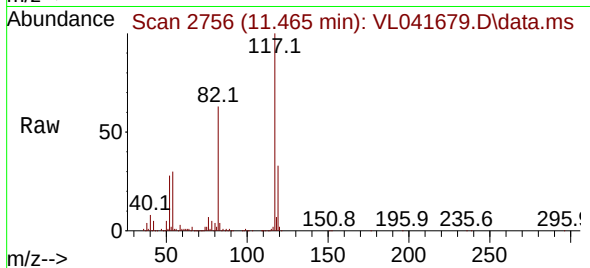




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.465 min Scan# 2756  
Delta R.T. 0.000 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

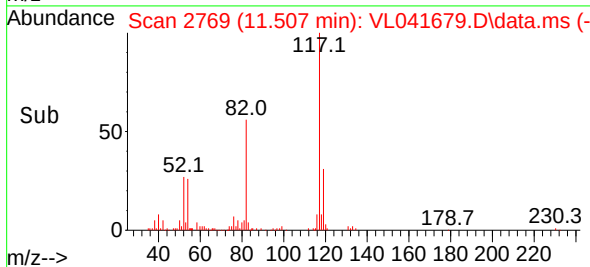
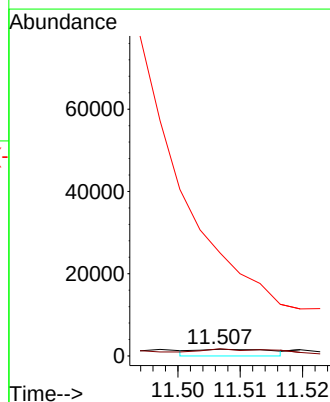
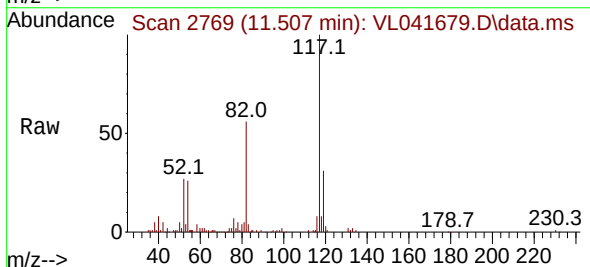
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

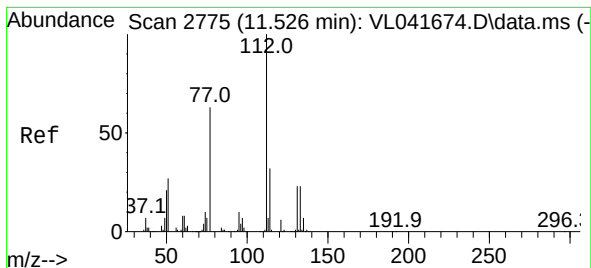
Tgt Ion:117 Resp: 2745730  
Ion Ratio Lower Upper  
117 100  
82 64.3 49.8 74.8  
119 33.4 24.2 36.4



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.012 ppbv  
RT: 11.507 min Scan# 2769  
Delta R.T. 0.000 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion:131 Resp: 1400  
Ion Ratio Lower Upper  
131 100  
133 221.5 76.5 114.7#  
119 0.0 49.8 74.8#

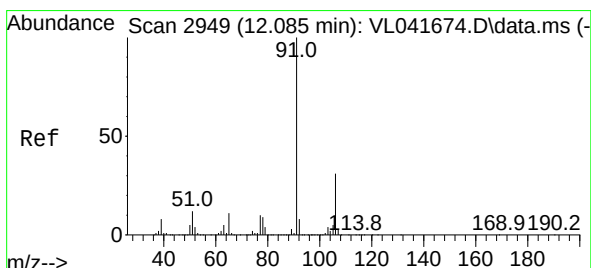
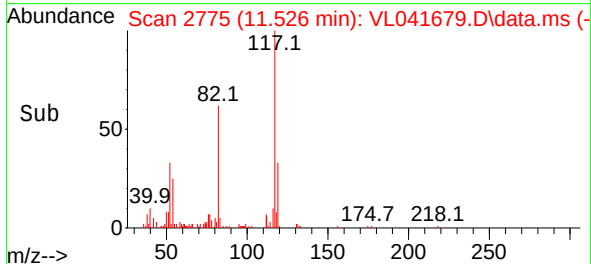
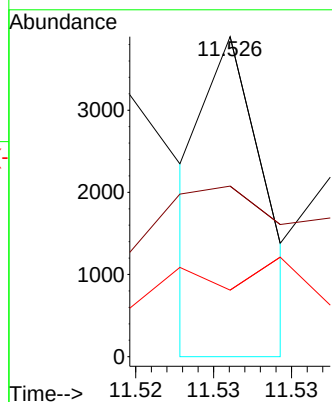
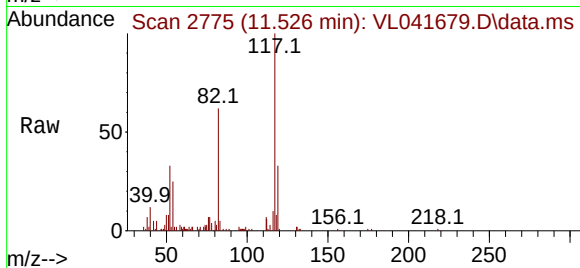




#57  
Chlorobenzene  
Concen: 0.005 ppbv  
RT: 11.526 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

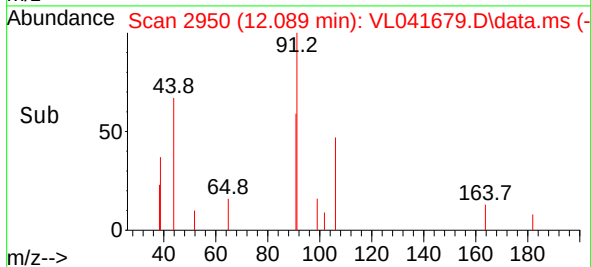
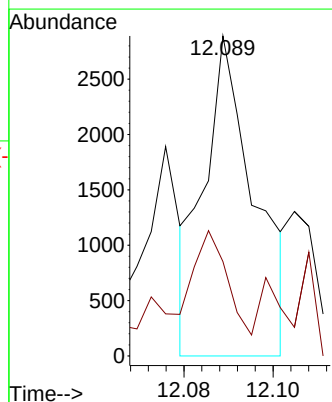
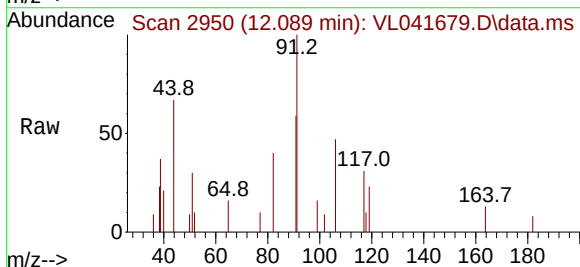
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

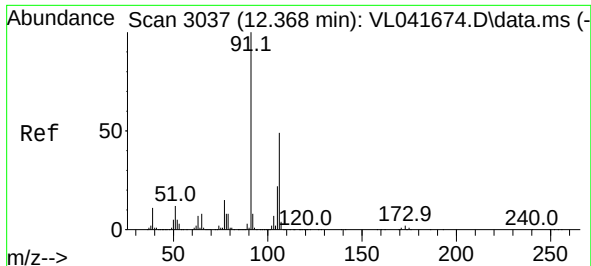
Tgt Ion:112 Resp: 1018  
Ion Ratio Lower Upper  
112 100  
77 18.6 51.4 77.2#  
114 0.0 28.4 34.8#



#58  
Ethyl Benzene  
Concen: 0.007 ppbv  
RT: 12.089 min Scan# 2950  
Delta R.T. 0.003 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion: 91 Resp: 2272  
Ion Ratio Lower Upper  
91 100  
106 27.0 24.9 37.3





#59

m/p-Xylene

Concen: 0.003 ppbv

RT: 12.365 min Scan# 3036

Delta R.T. -0.003 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_1

ClientSampleId :

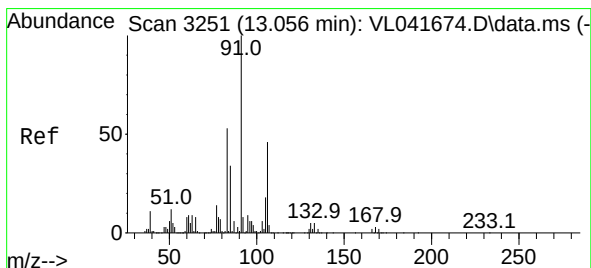
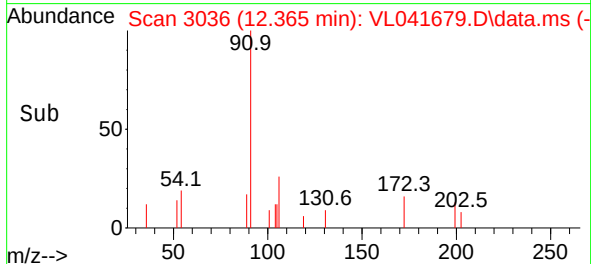
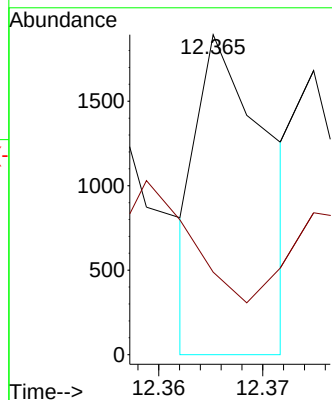
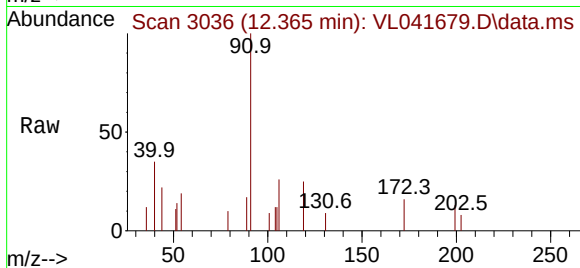
VSTDIC0.03

Tgt Ion: 91 Resp: 880

Ion Ratio Lower Upper

91 100

106 0.0 36.9 55.3#



#60

o-Xylene

Concen: 0.001 ppbv

RT: 13.082 min Scan# 3259

Delta R.T. 0.026 min

Lab File: VL041679.D

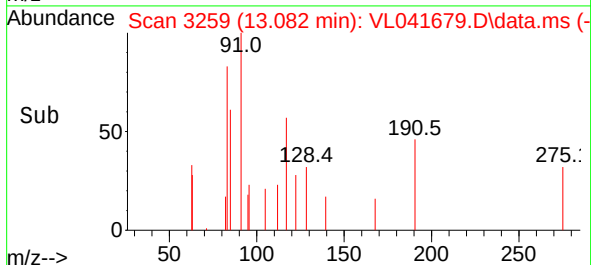
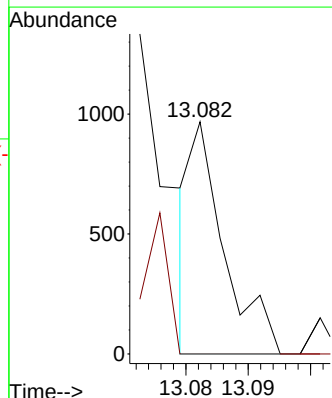
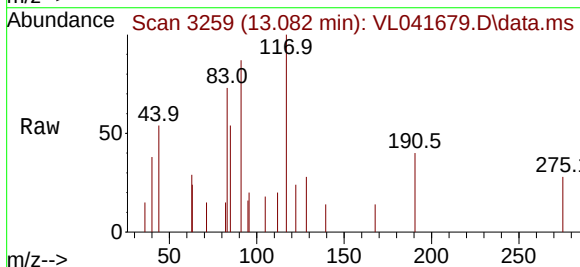
Acq: 7 Nov 2024 13:31

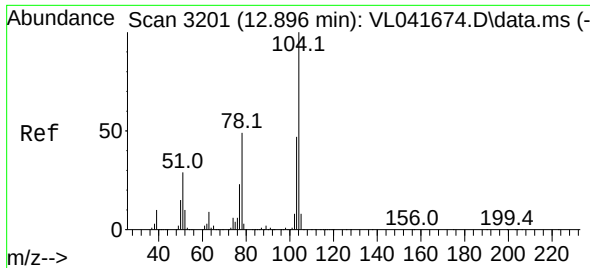
Tgt Ion: 91 Resp: 359

Ion Ratio Lower Upper

91 100

106 28.7 23.2 69.6

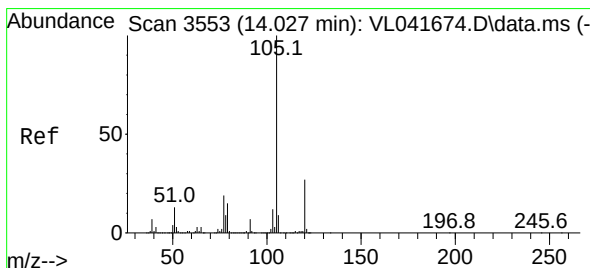
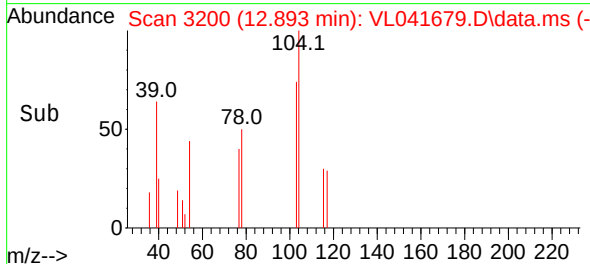
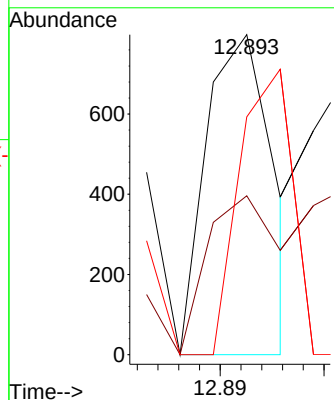
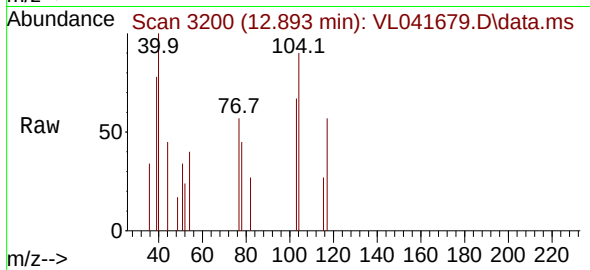




#61  
Styrene  
Concen: 0.003 ppbv  
RT: 12.893 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

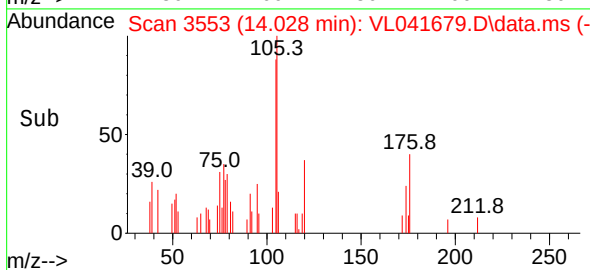
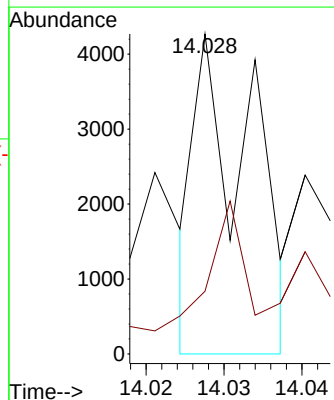
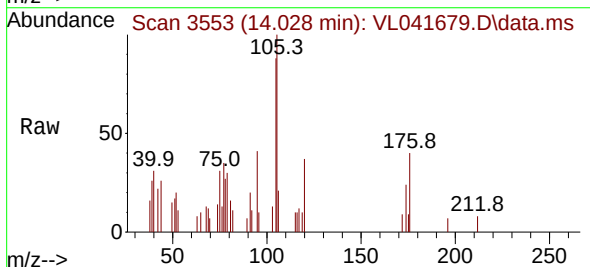
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

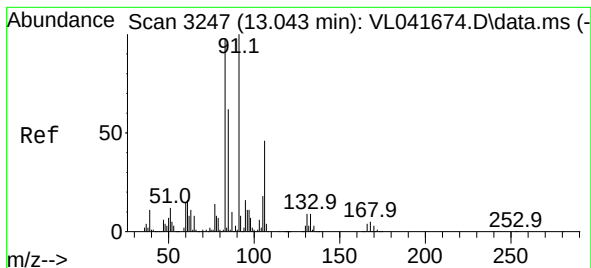
Tgt Ion:104 Resp: 361  
Ion Ratio Lower Upper  
104 100  
78 0.0 39.8 59.8#  
103 152.1 37.4 56.0#



#62  
Isopropylbenzene  
Concen: 0.005 ppbv  
RT: 14.028 min Scan# 3553  
Delta R.T. 0.000 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion:105 Resp: 2118  
Ion Ratio Lower Upper  
105 100  
120 96.8 21.1 31.7#

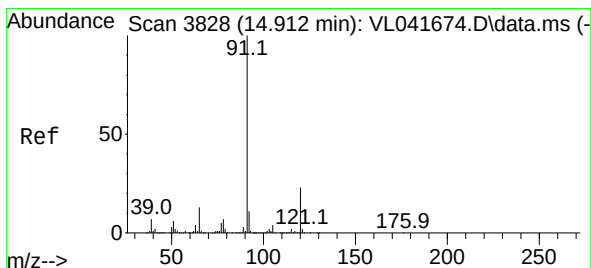
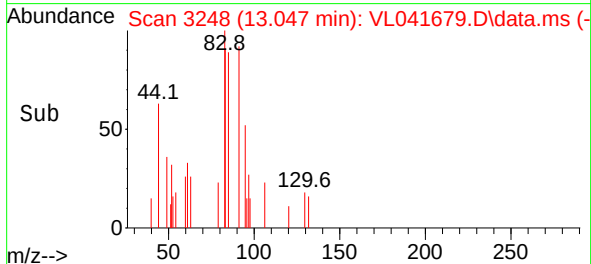
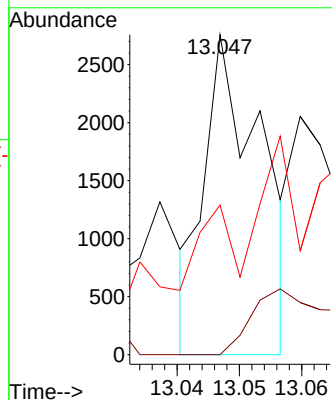
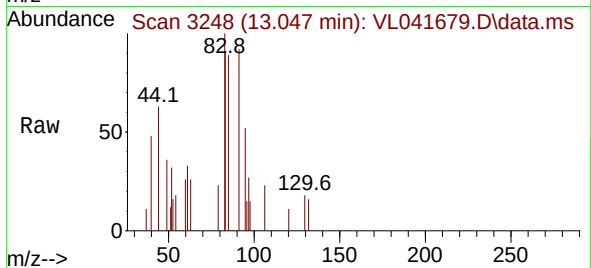




#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.009 ppbv  
RT: 13.047 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

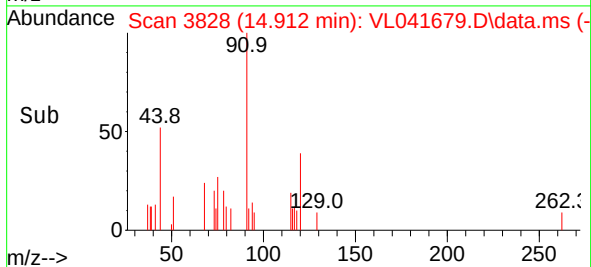
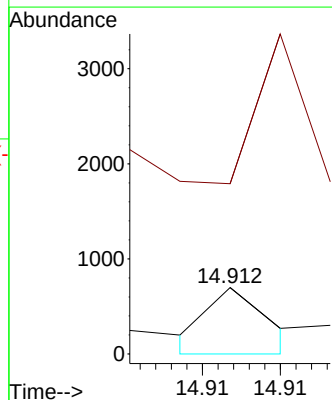
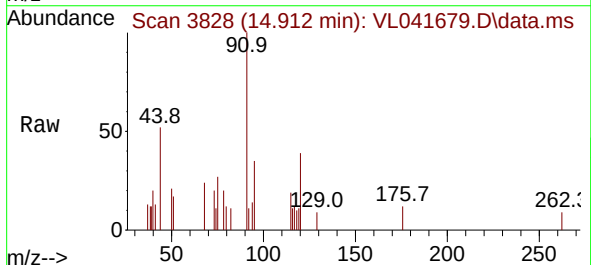
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

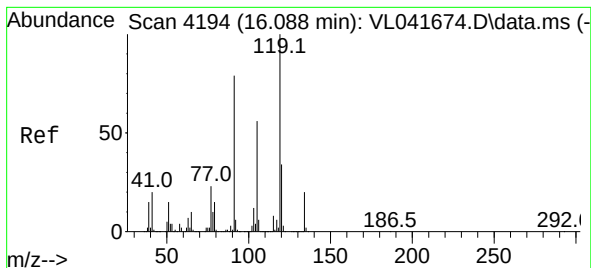
Tgt Ion: 83 Resp: 1745  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.8 14.3#  
85 0.0 32.6 98.0#



#64  
n-propylbenzene  
Concen: 0.002 ppbv  
RT: 14.912 min Scan# 3828  
Delta R.T. 0.000 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion:120 Resp: 187  
Ion Ratio Lower Upper  
120 100  
91 3587.2 362.4 543.6#





#65

tert-Butylbenzene

Concen: 0.001 ppbv

RT: 16.095 min Scan# 4194

Delta R.T. 0.007 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

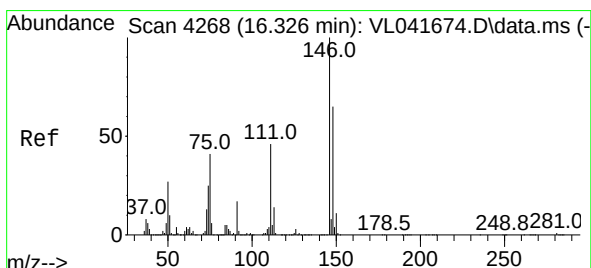
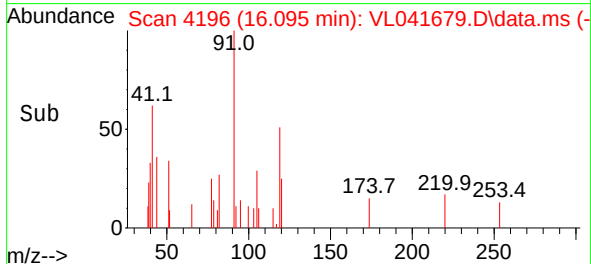
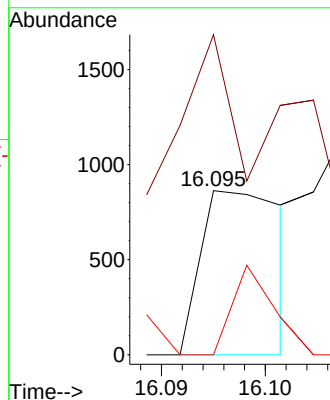
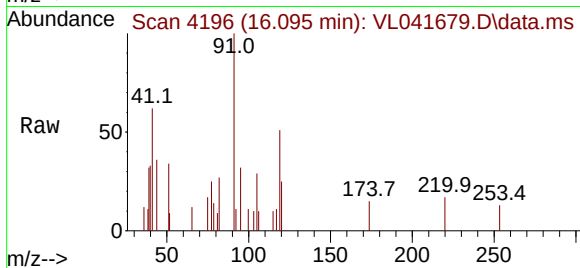
Tgt Ion:119 Resp: 481

Ion Ratio Lower Upper

119 100

91 702.1 64.3 96.5#

134 35.3 15.8 23.8#



#66

Benzyl Chloride

Concen: 0.001 ppbv

RT: 16.339 min Scan# 4272

Delta R.T. 0.013 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

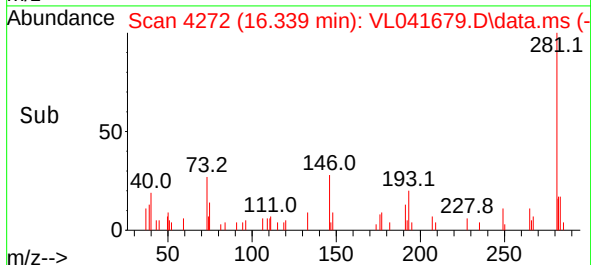
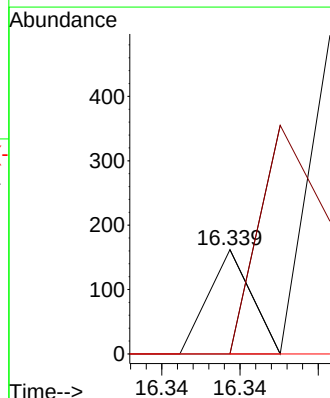
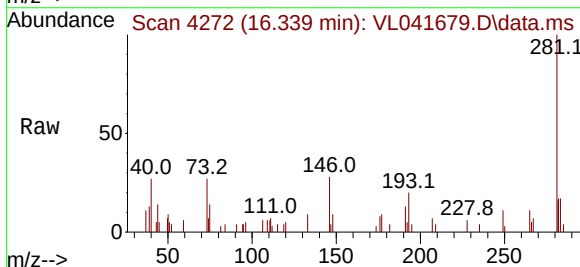
Tgt Ion: 91 Resp: 31

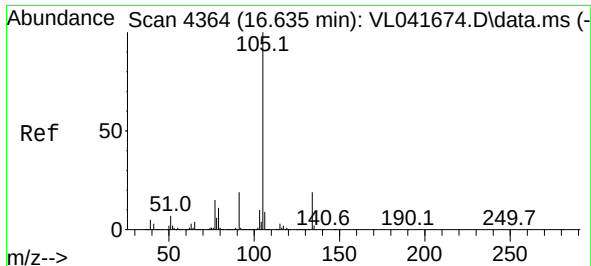
Ion Ratio Lower Upper

91 100

126 0.0 13.8 20.6#

128 0.0 4.3 6.5#





#67

sec-Butylbenzene

Concen: 0.004 ppbv

RT: 16.645 min Scan# 4364

Delta R.T. 0.010 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

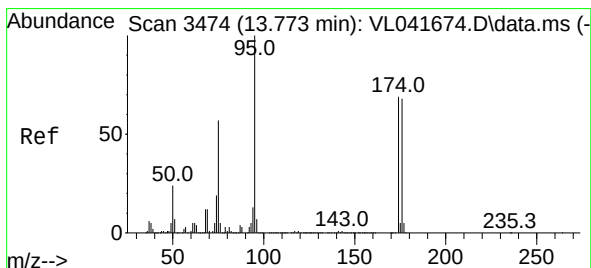
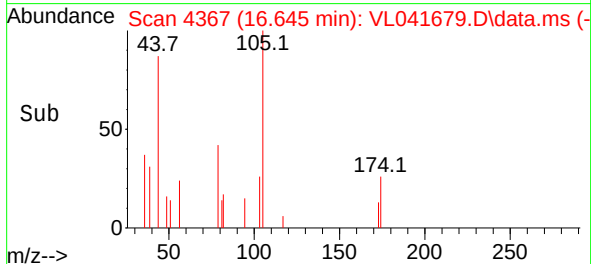
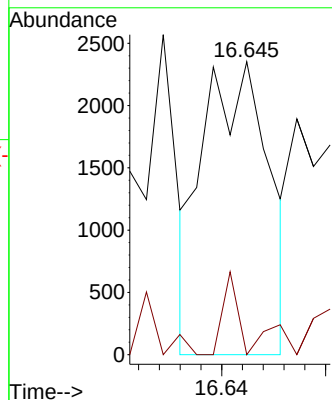
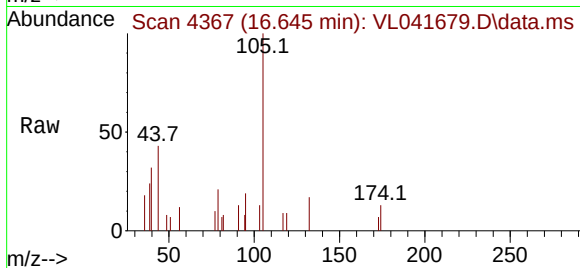
VSTDICC0.03

Tgt Ion:105 Resp: 2059

Ion Ratio Lower Upper

105 100

134 17.9 14.6 22.0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.018 ppbv

RT: 13.777 min Scan# 3475

Delta R.T. 0.003 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

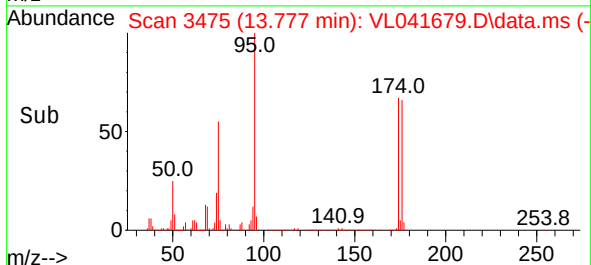
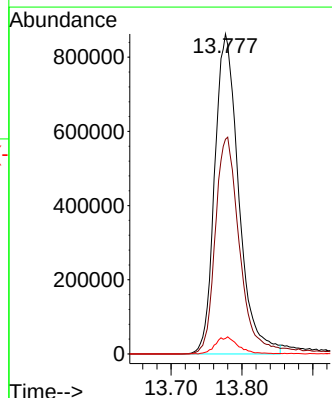
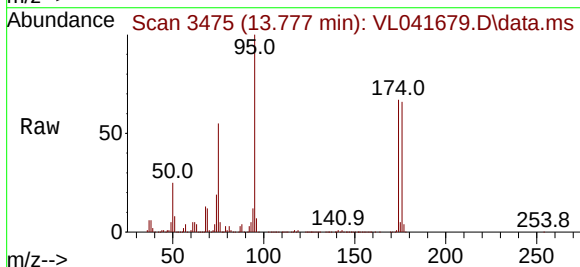
Tgt Ion: 95 Resp: 2034307

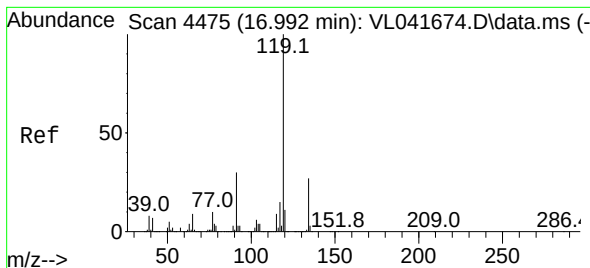
Ion Ratio Lower Upper

95 100

174 70.8 55.6 83.4

175 5.2 4.2 6.2





#69

p-Isopropyltoluene

Concen: 0.001 ppbv

RT: 16.995 min Scan# 4475

Delta R.T. 0.003 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

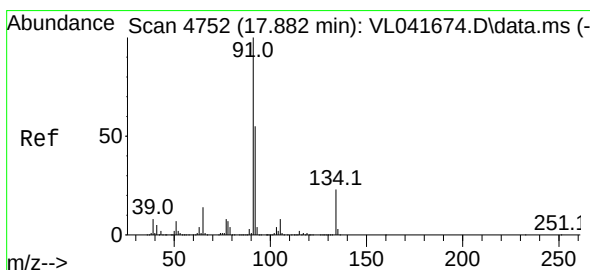
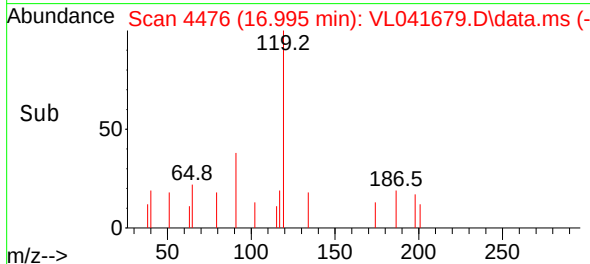
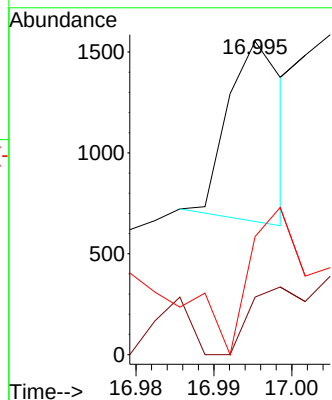
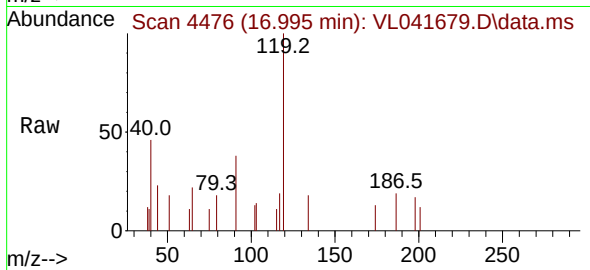
Tgt Ion:119 Resp: 431

Ion Ratio Lower Upper

119 100

134 0.0 20.8 31.2#

91 263.6 23.2 34.8#



#70

n-Butylbenzene

Concen: 0.002 ppbv

RT: 17.886 min Scan# 4753

Delta R.T. 0.003 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

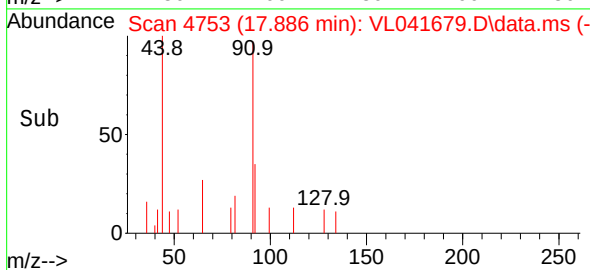
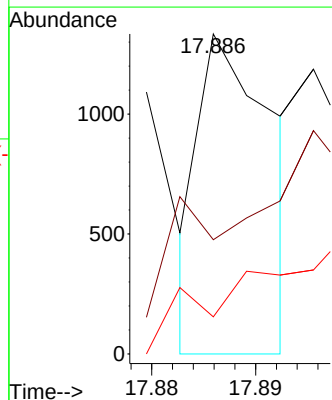
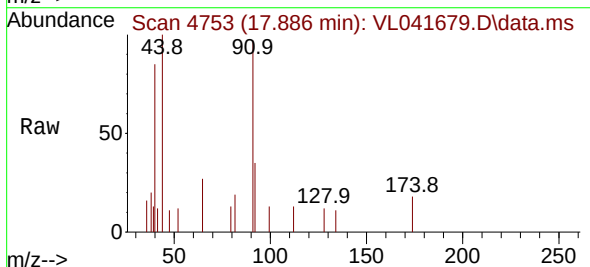
Tgt Ion: 91 Resp: 657

Ion Ratio Lower Upper

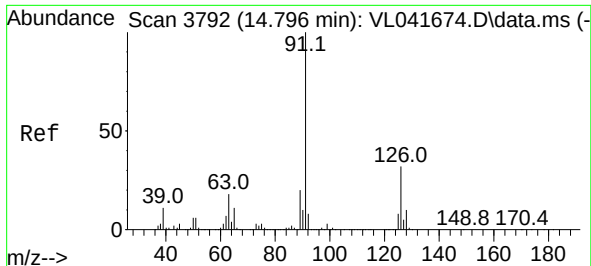
91 100

92 0.0 43.3 64.9#

134 0.0 18.4 27.6#



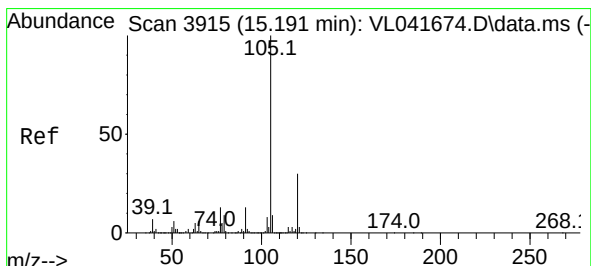
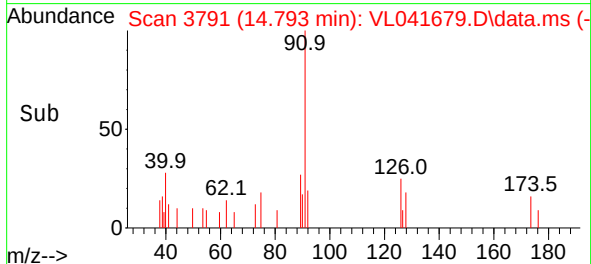
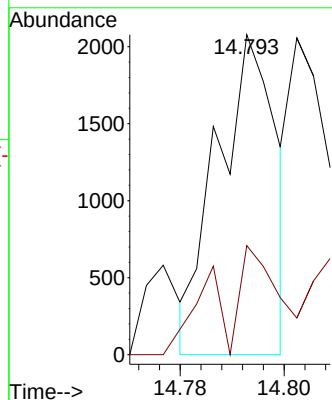
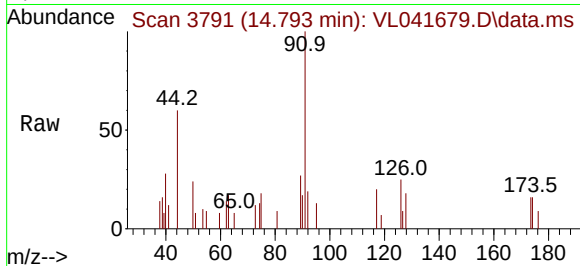




#71  
2-Chlorotoluene  
Concen: 0.006 ppbv  
RT: 14.793 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

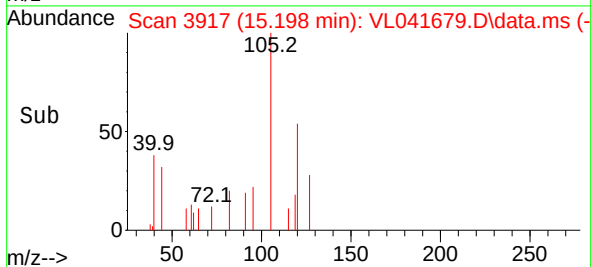
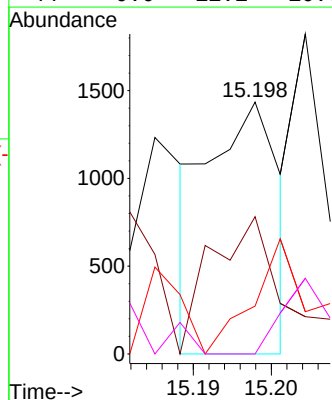
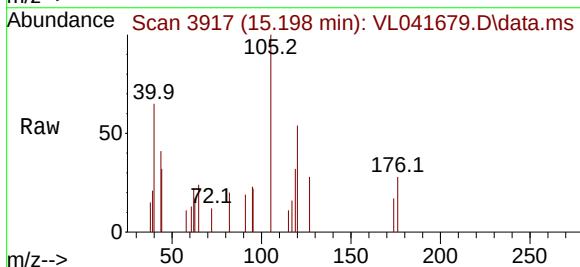
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

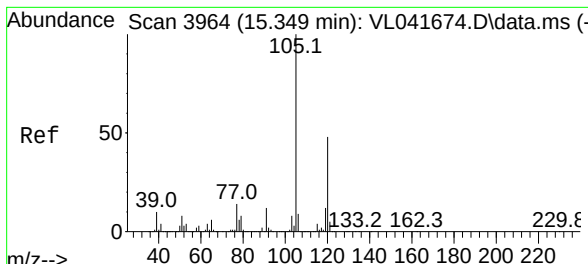
Tgt Ion: 91 Resp: 1624  
Ion Ratio Lower Upper  
91 100  
126 0.0 12.8 51.0#



#72  
4-Ethyltoluene  
Concen: 0.003 ppbv  
RT: 15.198 min Scan# 3917  
Delta R.T. 0.007 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion: 105 Resp: 907  
Ion Ratio Lower Upper  
105 100  
120 0.0 25.0 37.4#  
91 0.0 10.6 15.8#  
77 0.0 11.1 16.7#



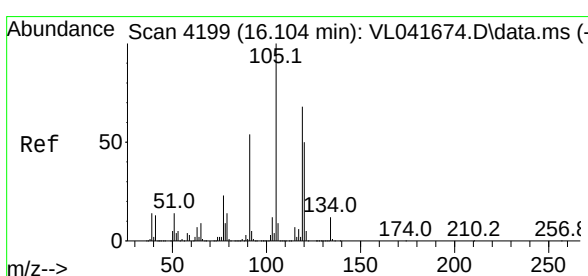
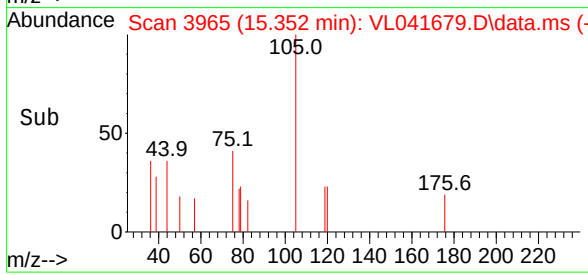
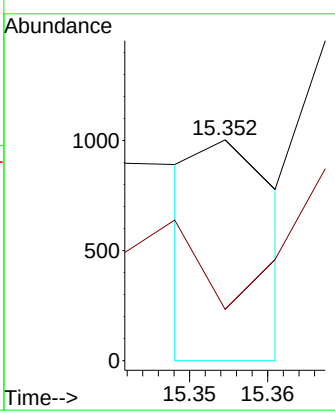
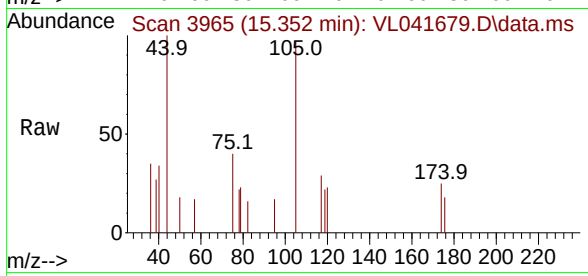


#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.001 ppbv  
 RT: 15.352 min Scan# 3965  
 Delta R.T. 0.003 min  
 Lab File: VL041679.D  
 Acq: 7 Nov 2024 13:31

Instrument : MSVOA\_1  
 ClientSampleId : VSTDIC0.03

Tgt Ion:105 Resp: 343

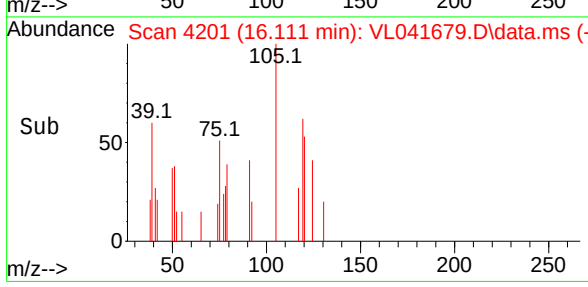
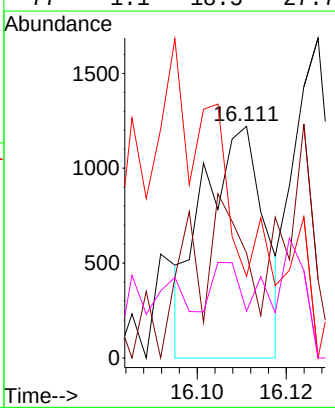
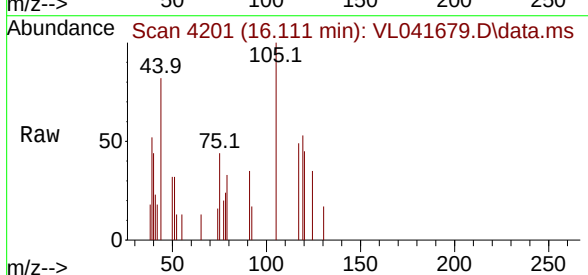
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 0.0   | 38.4  | 57.6# |

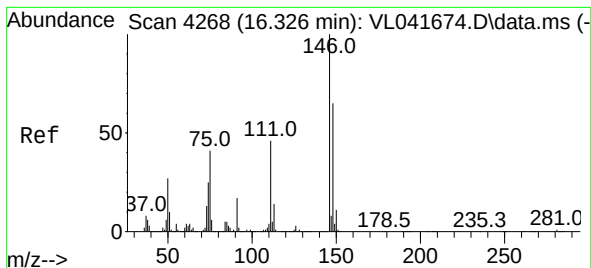


#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.004 ppbv  
 RT: 16.111 min Scan# 4201  
 Delta R.T. 0.007 min  
 Lab File: VL041679.D  
 Acq: 7 Nov 2024 13:31

Tgt Ion:105 Resp: 1159

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 17.6  | 39.8  | 59.8# |
| 91  | 6.7   | 43.2  | 64.8# |
| 77  | 1.1   | 18.5  | 27.7# |





#75

1,3-Dichlorobenzene

Concen: 0.001 ppbv

RT: 16.314 min Scan# 41

Delta R.T. -0.013 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

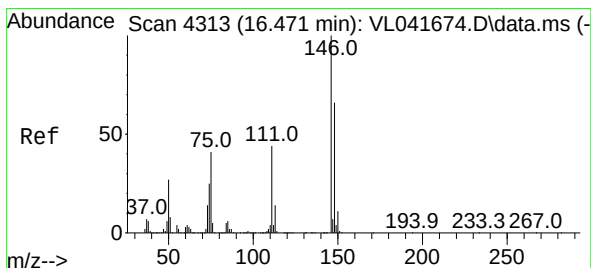
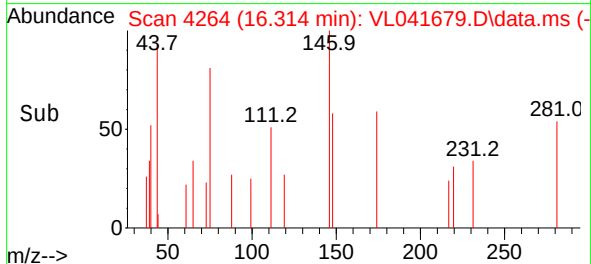
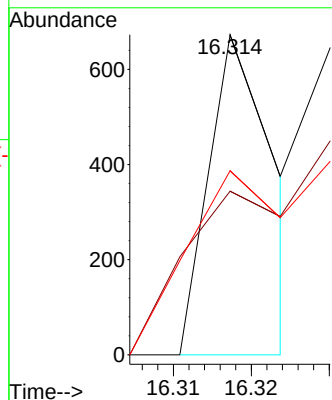
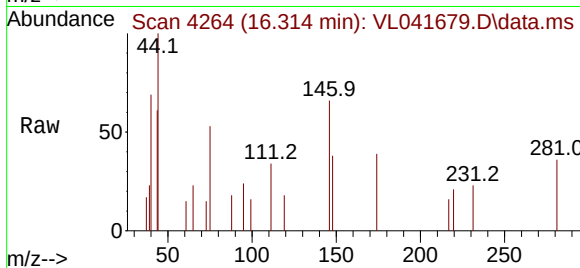
Tgt Ion:146 Resp: 202

Ion Ratio Lower Upper

146 100

111 0.0 22.8 68.3#

148 0.0 32.4 97.0#



#76

1,4-Dichlorobenzene

Concen: 0.005 ppbv

RT: 16.471 min Scan# 4313

Delta R.T. 0.000 min

Lab File: VL041679.D

Acq: 7 Nov 2024 13:31

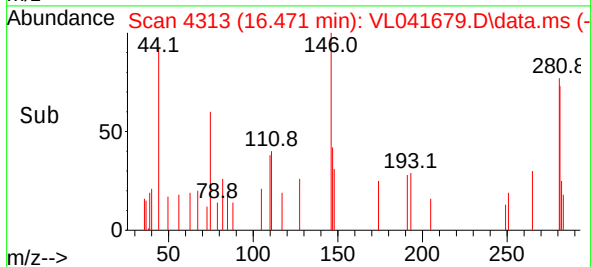
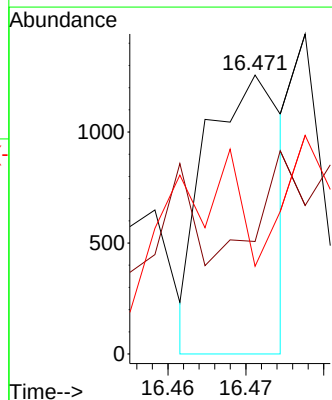
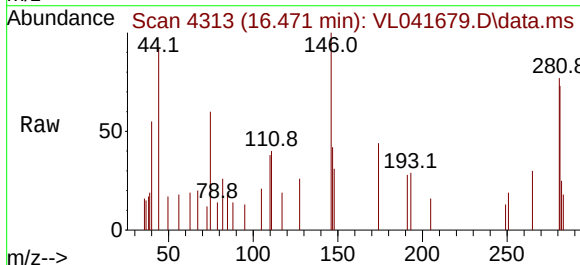
Tgt Ion:146 Resp: 857

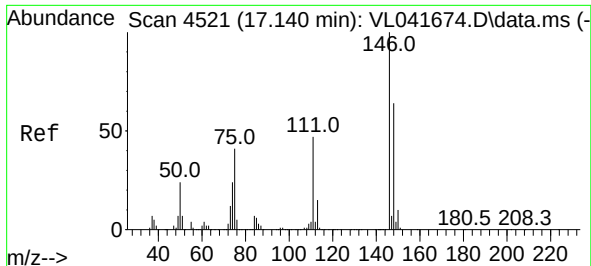
Ion Ratio Lower Upper

146 100

111 0.0 22.1 66.3#

148 0.0 33.3 99.8#

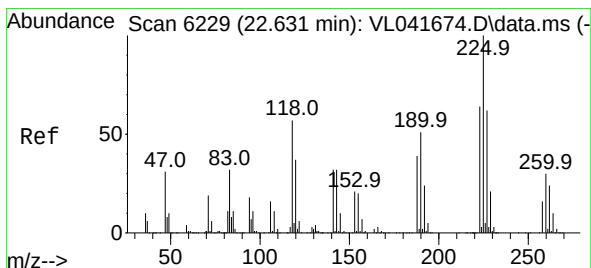
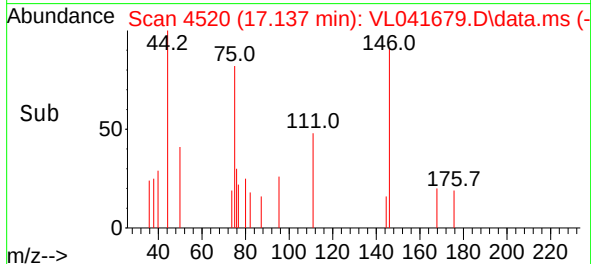
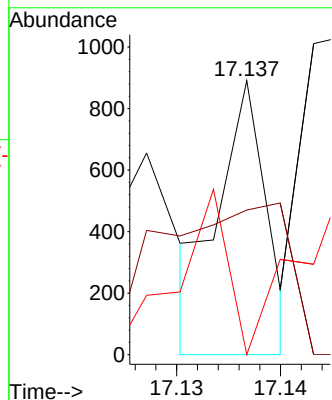
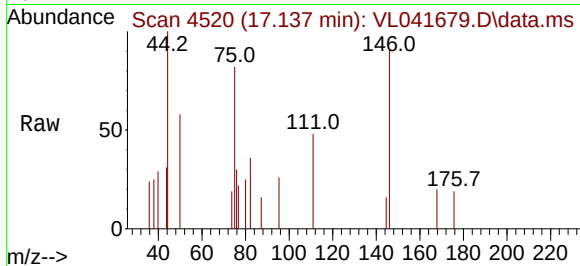




#77  
 1,2-Dichlorobenzene  
 Concen: 0.002 ppbv  
 RT: 17.137 min Scan# 4521  
 Delta R.T. -0.003 min  
 Lab File: VL041679.D  
 Acq: 7 Nov 2024 13:31

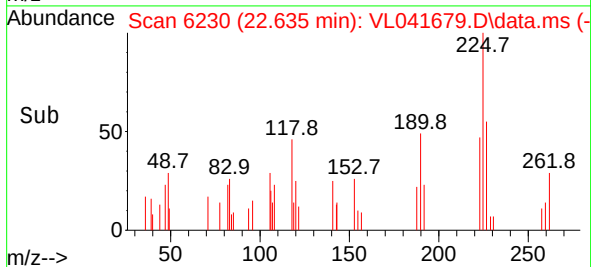
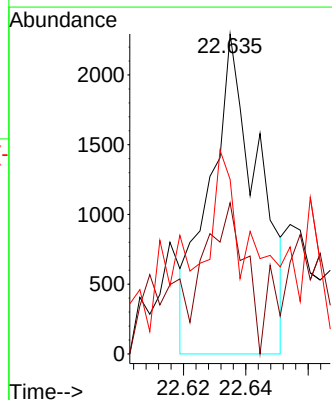
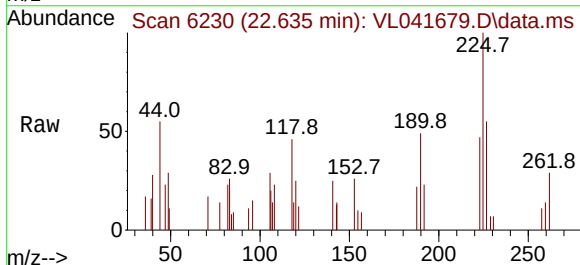
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

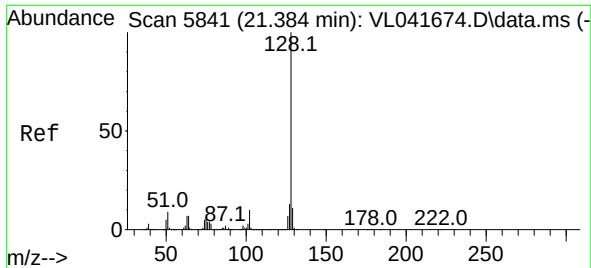
Tgt Ion:146 Resp: 285  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 23.4 70.3#  
 148 0.0 32.1 96.5#



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 0.017 ppbv  
 RT: 22.635 min Scan# 6230  
 Delta R.T. 0.003 min  
 Lab File: VL041679.D  
 Acq: 7 Nov 2024 13:31

Tgt Ion:225 Resp: 2496  
 Ion Ratio Lower Upper  
 225 100  
 223 58.3 51.1 76.7  
 227 125.1 51.3 76.9#

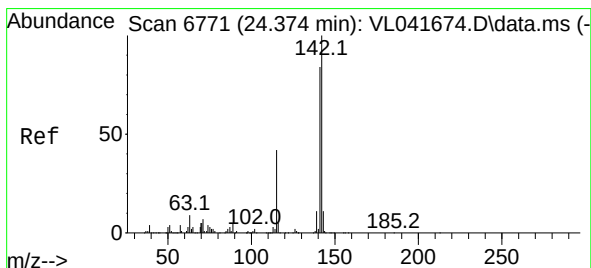
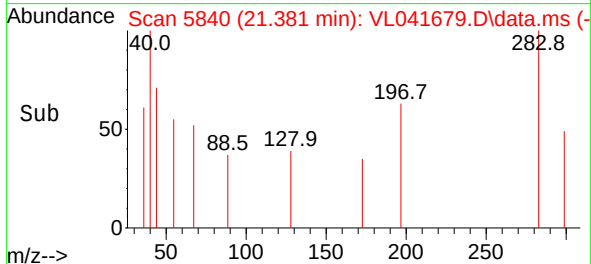
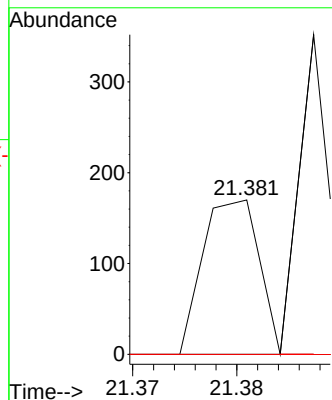
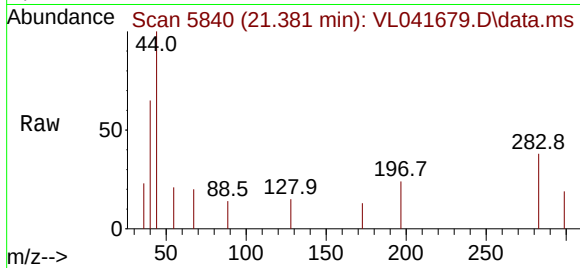




#79  
Naphthalene  
Concen: 0.000 ppbv  
RT: 21.381 min Scan# 51  
Delta R.T. -0.003 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

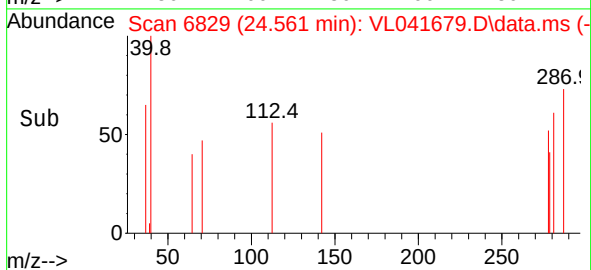
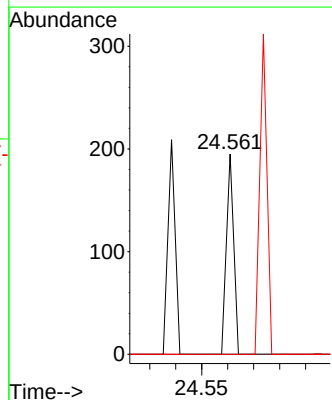
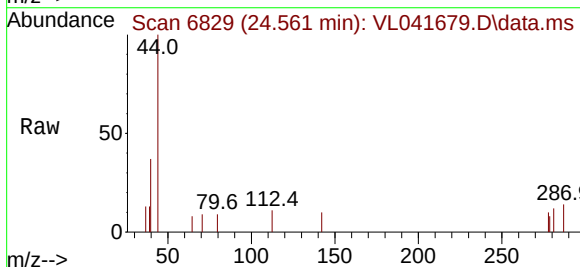
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

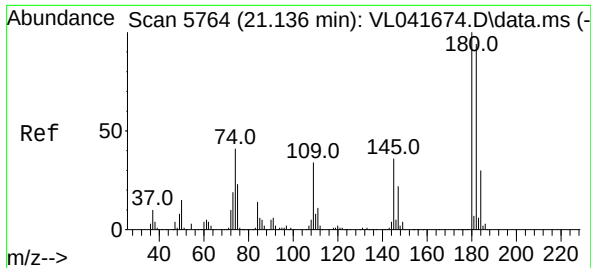
Tgt Ion:128 Resp: 64  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.5 15.7#  
129 0.0 8.7 13.1#



#80  
Naphthalene,2-methyl-  
Concen: 0.001 ppbv  
RT: 24.561 min Scan# 6829  
Delta R.T. 0.187 min  
Lab File: VL041679.D  
Acq: 7 Nov 2024 13:31

Tgt Ion:142 Resp: 38  
Ion Ratio Lower Upper  
142 100  
141 0.0 68.1 102.1#  
115 78.9 33.1 49.7#





#81

1,2,4-Trichlorobenzene

Concen: 0.002 ppbv

RT: 21.140 min Scan# 5

Delta R.T. 0.003 min

Lab File: VL041679.D

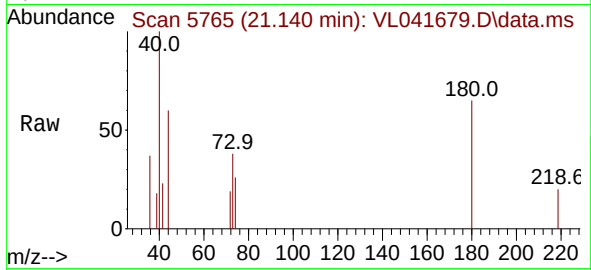
Acq: 7 Nov 2024 13:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03



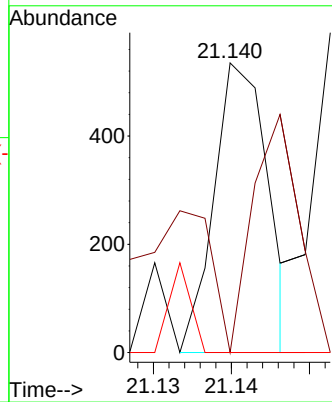
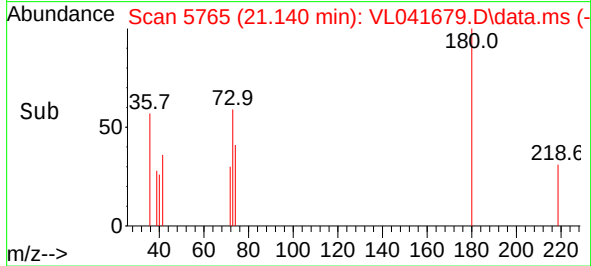
Tgt Ion:180 Resp: 259

Ion Ratio Lower Upper

180 100

182 393.8 78.2 117.2#

184 0.0 25.0 37.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041680.D  
 Acq On : 7 Nov 2024 14:12  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Quant Time: Nov 08 00:13:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.192  | 49   | 1139788  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.655  | 114  | 3182548  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.468 | 117  | 3271350  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 13.780 | 95    | 2357958  | 9.746    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.500% |

|                               |       |     |         |        |        |     |
|-------------------------------|-------|-----|---------|--------|--------|-----|
| Target Compounds              |       |     |         |        | Qvalue |     |
| 2) Dichlorodifluoromethane    | 2.729 | 85  | 3118931 | 15.140 | ppbv   | 99  |
| 3) Chlorodifluoromethane      | 2.674 | 51  | 2003229 | 13.489 | ppbv   | 99  |
| 4) Chloromethane              | 2.813 | 50  | 1085629 | 13.801 | ppbv   | 95  |
| 5) Vinyl Chloride             | 2.922 | 62  | 1061943 | 14.900 | ppbv   | 99  |
| 6) Bromomethane               | 3.121 | 94  | 543873  | 14.489 | ppbv   | 99  |
| 7) Chloroethane               | 3.198 | 64  | 374124  | 14.487 | ppbv   | 99  |
| 8) Dichlorotetrafluoroethane  | 2.858 | 85  | 2471590 | 13.440 | ppbv   | 100 |
| 9) Propene                    | 2.694 | 41  | 906594  | 14.010 | ppbv   | 99  |
| 10) Heptane                   | 7.581 | 43  | 2284371 | 15.754 | ppbv   | 98  |
| 11) Trichlorofluoromethane    | 3.562 | 101 | 2504580 | 13.958 | ppbv   | 98  |
| 12) 1,1,2-Trichlorotrifluo... | 4.067 | 101 | 1834846 | 14.068 | ppbv   | 100 |
| 13) Ethanol                   | 3.250 | 45  | 24151   | 6.000  | ppbv # | 49  |
| 14) Bromoethene               | 3.366 | 108 | 755053  | 14.401 | ppbv   | 98  |
| 15) Acetone                   | 3.469 | 43  | 1886393 | 13.448 | ppbv   | 99  |
| 16) 1,3-Butadiene             | 2.986 | 39  | 1081107 | 15.371 | ppbv   | 99  |
| 17) tert-Butyl alcohol        | 3.880 | 59  | 1663672 | 13.516 | ppbv   | 100 |
| 18) 1,1-Dichloroethene        | 3.880 | 96  | 834933  | 14.596 | ppbv   | 93  |
| 19) Isopropyl Alcohol         | 3.575 | 45  | 910280  | 13.406 | ppbv   | 100 |
| 20) Methylene Chloride        | 3.932 | 84  | 687212  | 13.313 | ppbv   | 96  |
| 21) Allyl Chloride            | 3.996 | 41  | 1317025 | 15.194 | ppbv   | 99  |
| 22) trans-1,2-Dichloroethene  | 4.446 | 96  | 842095  | 14.755 | ppbv   | 97  |
| 23) Vinyl Acetate             | 4.626 | 43  | 926796  | 14.047 | ppbv   | 98  |
| 24) 1,1-Dichloroethane        | 4.565 | 63  | 1790354 | 14.103 | ppbv   | 99  |
| 25) Ethyl Acetate             | 5.205 | 43  | 4234322 | 14.583 | ppbv   | 100 |
| 26) Hexane                    | 5.211 | 57  | 1693823 | 15.184 | ppbv   | 96  |
| 27) Carbon Disulfide          | 4.124 | 76  | 2071779 | 16.531 | ppbv   | 99  |
| 28) Methyl tert-Butyl Ether   | 4.587 | 73  | 988726  | 13.764 | ppbv   | 99  |
| 29) Chloroform                | 5.276 | 83  | 2615593 | 14.204 | ppbv   | 98  |
| 30) Cyclohexane               | 6.600 | 84  | 1445757 | 16.132 | ppbv   | 99  |
| 31) cis-1,2-Dichloroethene    | 5.079 | 61  | 1655410 | 15.426 | ppbv   | 98  |
| 32) 1,1,1-Trichloroethane     | 6.005 | 97  | 2576420 | 15.262 | ppbv   | 99  |
| 34) 2-Butanone                | 4.787 | 43  | 2382292 | 15.033 | ppbv   | 100 |
| 35) Carbon Tetrachloride      | 6.497 | 117 | 2728914 | 16.220 | ppbv   | 98  |
| 36) Benzene                   | 6.372 | 78  | 3579956 | 15.182 | ppbv   | 100 |
| 37) 1,2-Dichloroethane        | 5.809 | 62  | 1992504 | 14.978 | ppbv   | 99  |
| 38) Trichloroethene           | 7.295 | 130 | 1492186 | 16.410 | ppbv   | 98  |
| 39) 1,2-Dichloropropane       | 7.076 | 63  | 1405373 | 15.081 | ppbv   | 99  |
| 40) 1,4-Dioxane               | 7.285 | 88  | 545340  | 16.521 | ppbv   | 93  |
| 41) Tetrahydrofuran           | 5.555 | 42  | 1449986 | 16.040 | ppbv   | 99  |
| 42) Bromodichloromethane      | 7.253 | 83  | 2869440 | 15.522 | ppbv   | 99  |
| 43) Methyl Methacrylate       | 7.475 | 69  | 1439612 | 17.388 | ppbv   | 99  |
| 44) 2,2,4-Trimethylpentane    | 7.327 | 57  | 5922866 | 14.828 | ppbv   | 100 |
| 45) t-1,3-Dichloropropene     | 8.713 | 75  | 1469151 | 19.850 | ppbv   | 97  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041680.D  
 Acq On : 7 Nov 2024 14:12  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Quant Time: Nov 08 00:13:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.144  | 75   | 1964082  | 18.259 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 8.902  | 97   | 1496508  | 14.895 | ppbv   | 99       |
| 48) Dibromochloromethane      | 9.713  | 129  | 2521147  | 16.444 | ppbv   | 100      |
| 49) Bromoform                 | 12.413 | 173  | 2265132  | 17.318 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.182  | 43   | 3873850  | 15.919 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.552  | 43   | 3096656  | 17.512 | ppbv # | 99       |
| 52) Tetrachloroethene         | 10.616 | 164  | 1362327  | 16.900 | ppbv   | 98       |
| 53) Toluene                   | 9.224  | 91   | 4192947  | 16.909 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.012 | 107  | 2047188  | 17.451 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.510 | 131  | 1851127  | 13.588 | ppbv   | 98       |
| 57) Chlorobenzene             | 11.529 | 112  | 3280487  | 13.453 | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.092 | 91   | 5635176  | 15.550 | ppbv   | 98       |
| 59) m/p-Xylene                | 12.372 | 91   | 5464666  | 16.857 | ppbv # | 47       |
| 60) o-Xylene                  | 13.063 | 91   | 4598783  | 14.859 | ppbv   | 100      |
| 61) Styrene                   | 12.902 | 104  | 2329096  | 18.233 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.031 | 105  | 6769619  | 14.169 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.050 | 83   | 3217179  | 14.277 | ppbv   | 100      |
| 64) n-propylbenzene           | 14.918 | 120  | 1875181  | 15.010 | ppbv   | 95       |
| 65) tert-Butylbenzene         | 16.095 | 119  | 6075642  | 14.149 | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.333 | 91   | 602019   | 19.466 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 16.638 | 105  | 8477471  | 14.008 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 16.999 | 119  | 7127872  | 14.562 | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.889 | 91   | 7337569  | 14.625 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 14.806 | 91   | 5195848  | 15.038 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.198 | 105  | 5625512  | 15.652 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.355 | 105  | 4772611  | 15.144 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.114 | 105  | 5199497  | 14.183 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 16.336 | 146  | 3296952  | 14.559 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 16.478 | 146  | 3204404  | 14.402 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.150 | 146  | 3223835  | 14.336 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 22.638 | 225  | 2162938  | 12.158 | ppbv   | 99       |
| 79) Naphthalene               | 21.391 | 128  | 4363777  | 19.355 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.374 | 142  | 1022470  | 24.444 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.146 | 180  | 2238509  | 15.962 | ppbv   | 100      |

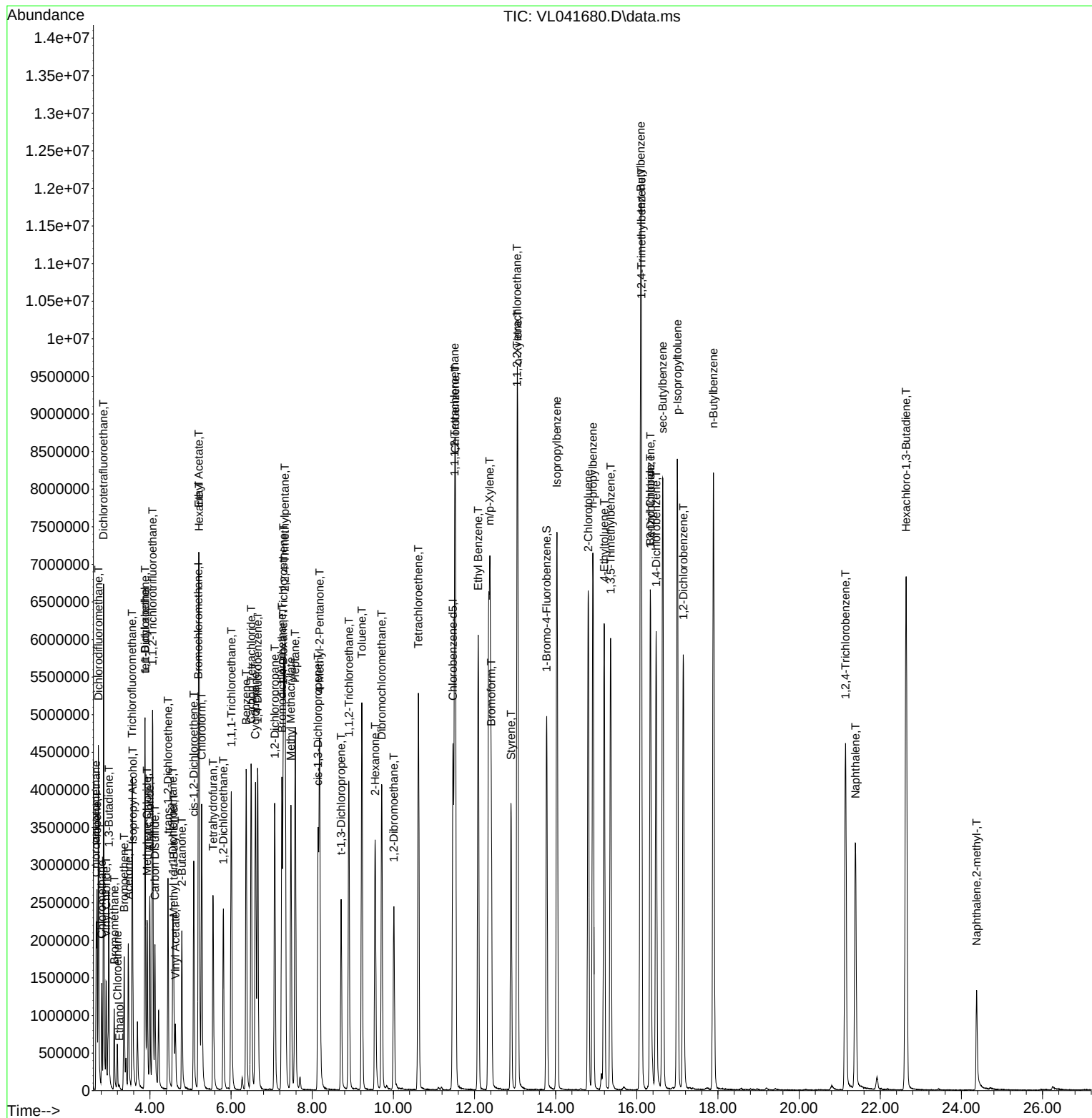
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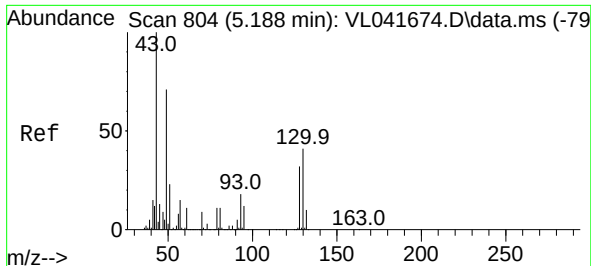


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Data File : VL041680.D  
Acq On : 7 Nov 2024 14:12  
Operator : SY/MD  
Sample : VSTDIC015  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Quant Time: Nov 08 00:13:20 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

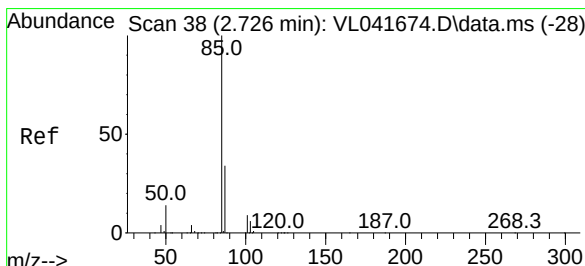
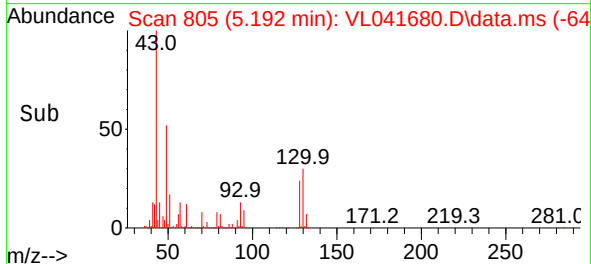
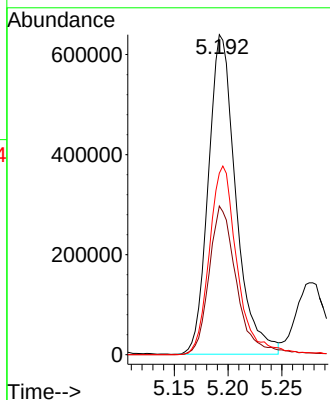
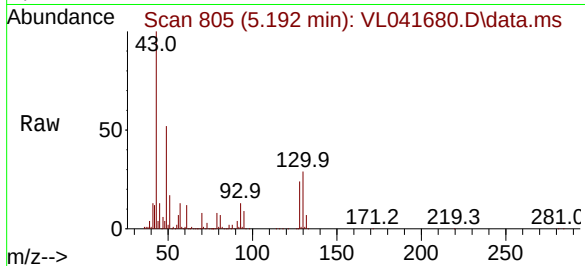




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.192 min Scan# 80  
Delta R.T. 0.004 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

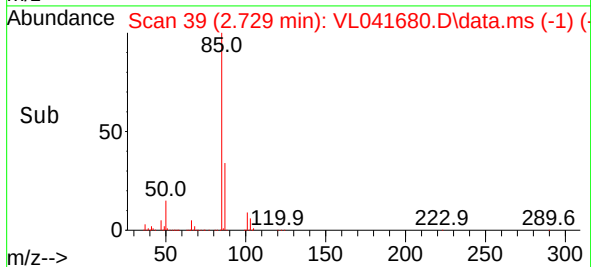
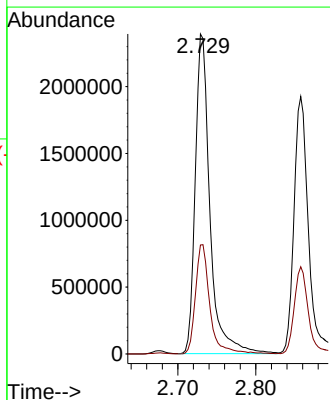
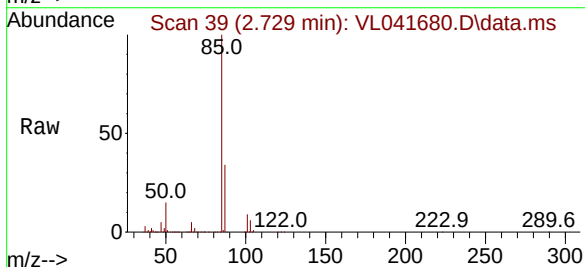
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

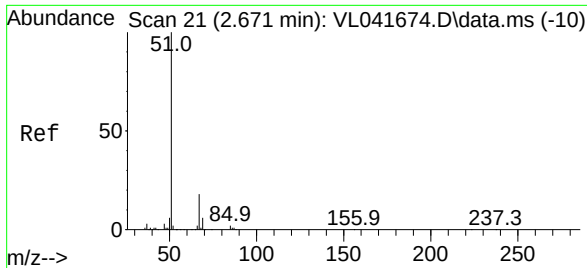
Tgt Ion: 49 Resp: 1139788  
Ion Ratio Lower Upper  
49 100  
128 47.2 23.8 71.2  
130 60.9 30.1 90.5



#2  
Dichlorodifluoromethane  
Concen: 15.140 ppbv  
RT: 2.729 min Scan# 39  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 85 Resp: 3118931  
Ion Ratio Lower Upper  
85 100  
87 34.1 26.8 40.2

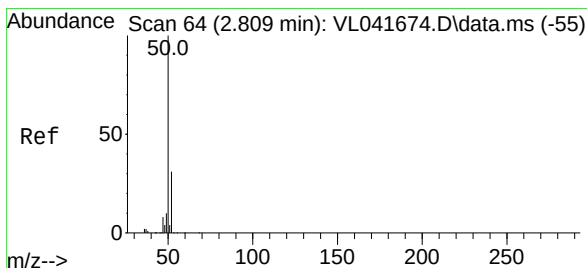
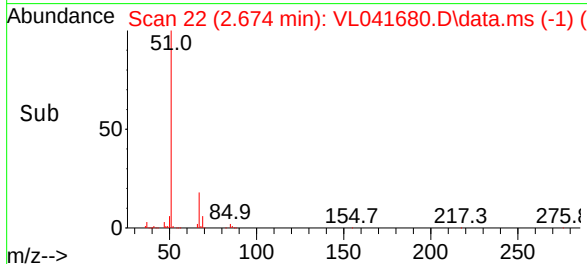
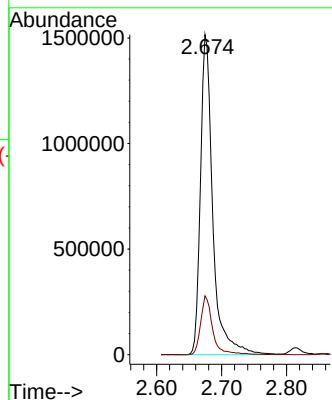
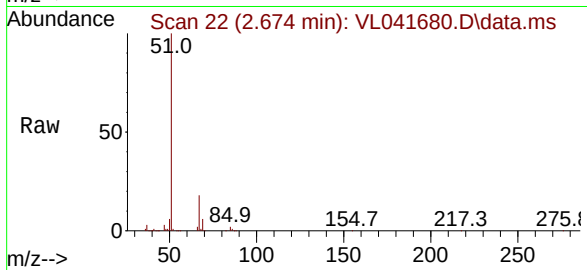




#3  
Chlorodifluoromethane  
Concen: 13.489 ppbv  
RT: 2.674 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

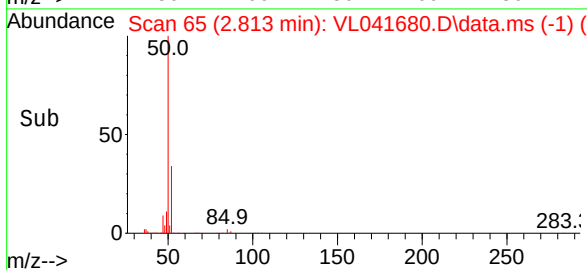
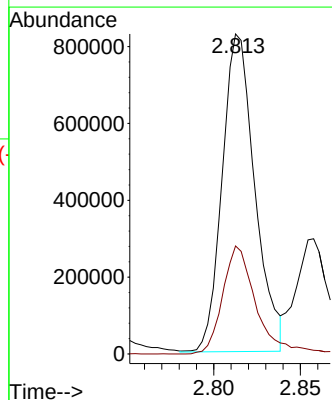
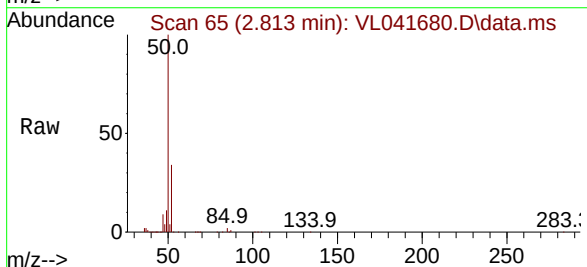
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

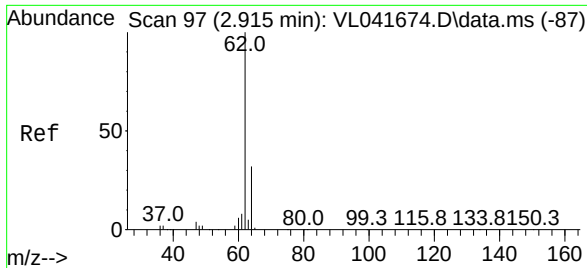
Tgt Ion: 51 Resp: 2003229  
Ion Ratio Lower Upper  
51 100  
67 18.0 13.9 20.9



#4  
Chloromethane  
Concen: 13.801 ppbv  
RT: 2.813 min Scan# 65  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 50 Resp: 1085629  
Ion Ratio Lower Upper  
50 100  
52 34.1 24.9 37.3

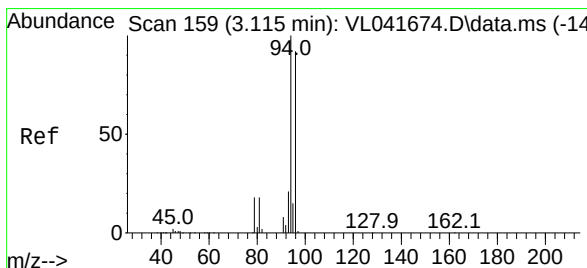
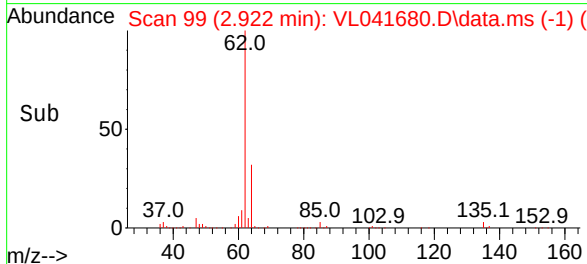
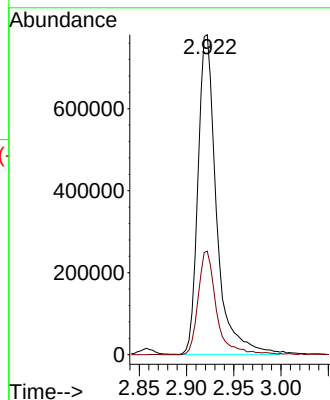
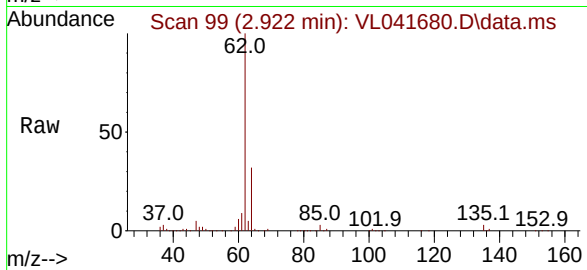




#5  
Vinyl Chloride  
Concen: 14.900 ppbv  
RT: 2.922 min Scan# 90  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

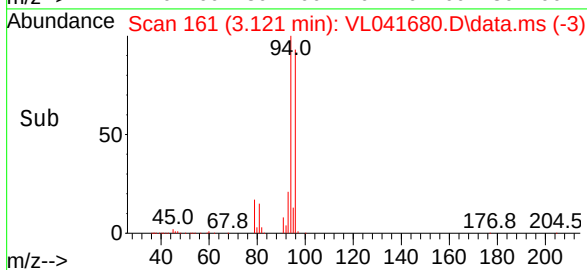
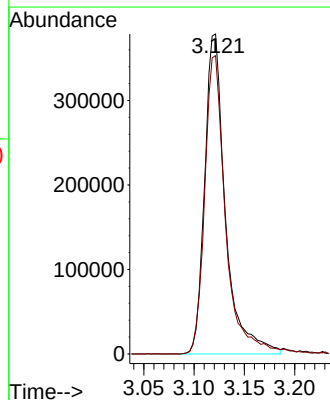
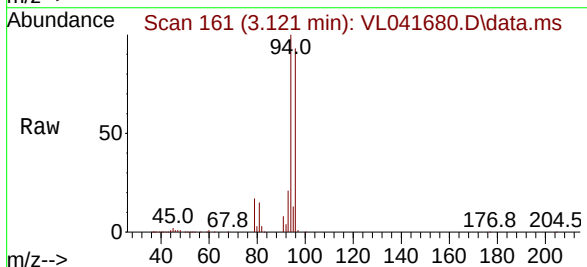
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

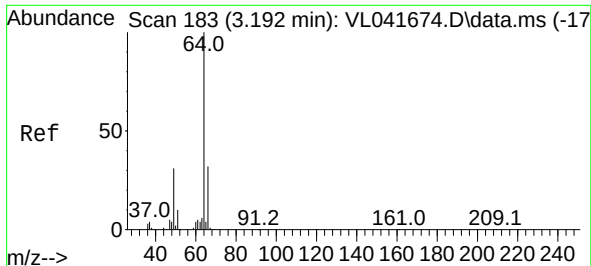
Tgt Ion: 62 Resp: 1061943  
Ion Ratio Lower Upper  
62 100  
64 32.4 25.4 38.2



#6  
Bromomethane  
Concen: 14.489 ppbv  
RT: 3.121 min Scan# 161  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 94 Resp: 543873  
Ion Ratio Lower Upper  
94 100  
96 93.2 73.4 110.2

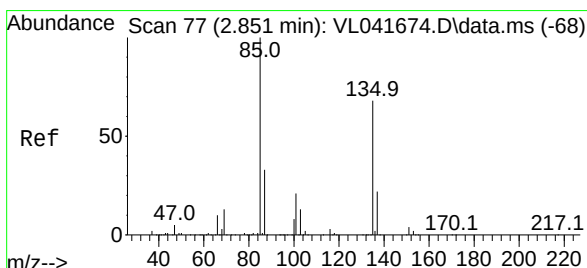
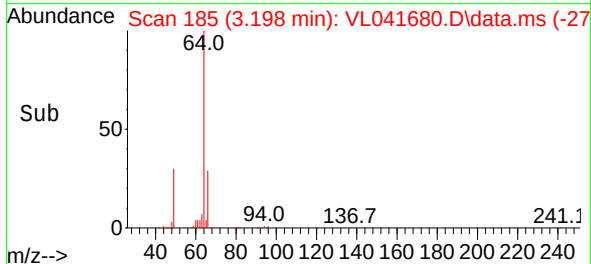
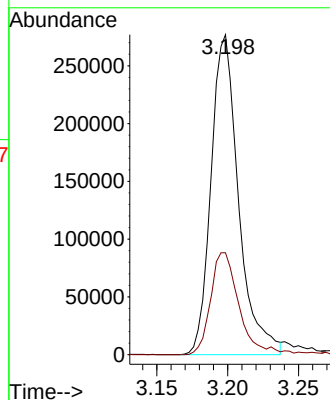
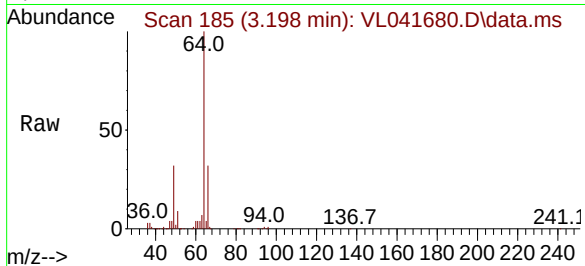




#7  
Chloroethane  
Concen: 14.487 ppbv  
RT: 3.198 min Scan# 11  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

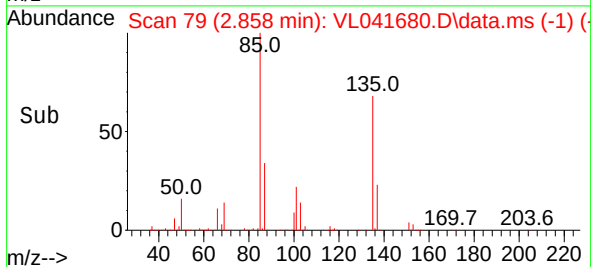
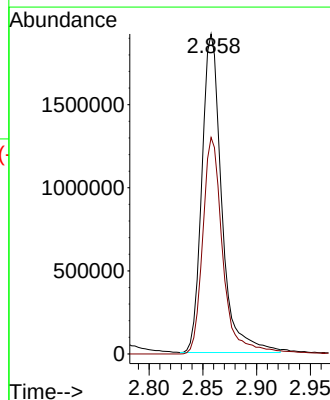
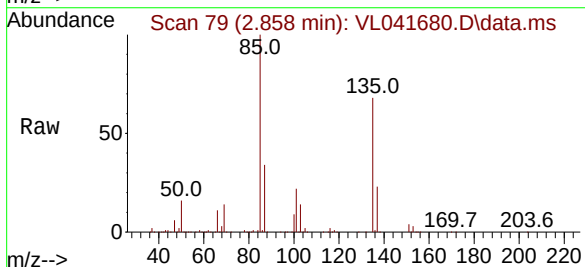
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ClientSampleId :  
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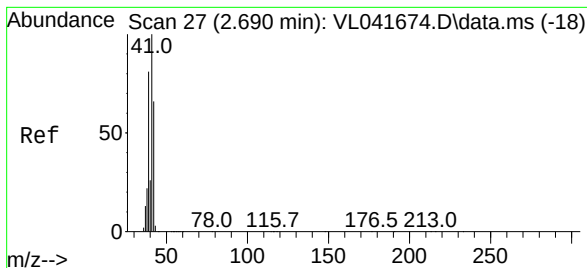
Tgt Ion: 64 Resp: 374124  
Ion Ratio Lower Upper  
64 100  
66 31.8 25.9 38.9



#8  
Dichlorotetrafluoroethane  
Concen: 13.440 ppbv  
RT: 2.858 min Scan# 79  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 85 Resp: 2471590  
Ion Ratio Lower Upper  
85 100  
135 69.7 55.5 83.3





#9

Propene

Concen: 14.010 ppbv

RT: 2.694 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

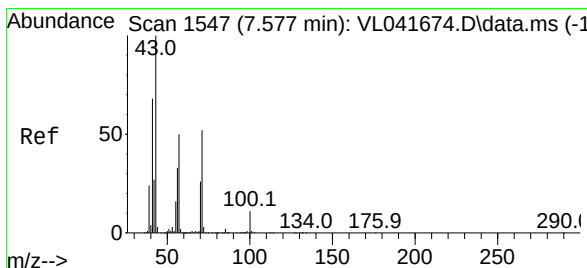
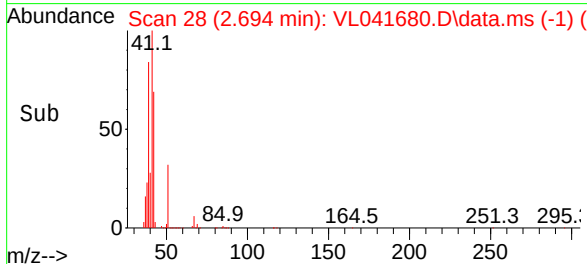
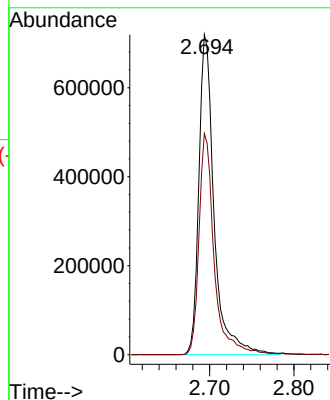
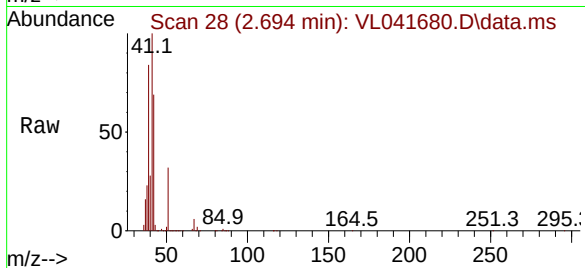
VSTDIC015

Tgt Ion: 41 Resp: 906594

Ion Ratio Lower Upper

41 100

42 69.2 55.0 82.4



#10

Heptane

Concen: 15.754 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. 0.003 min

Lab File: VL041680.D

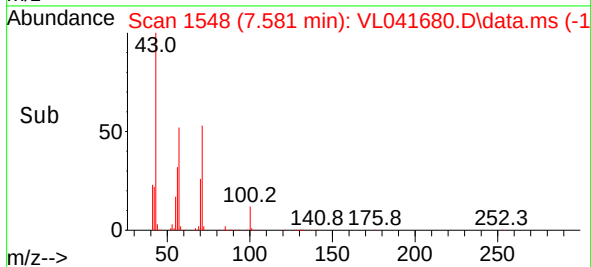
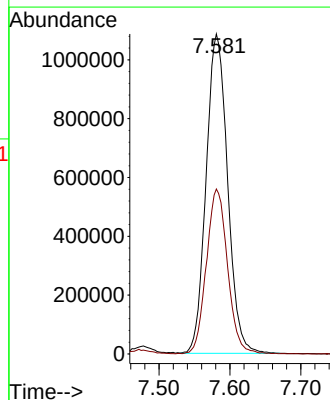
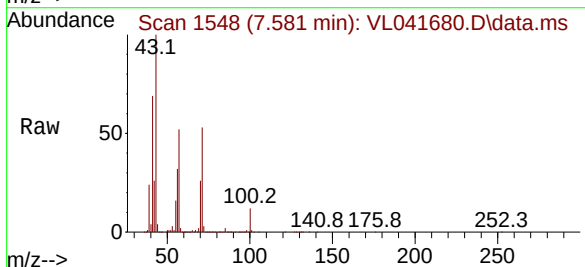
Acq: 7 Nov 2024 14:12

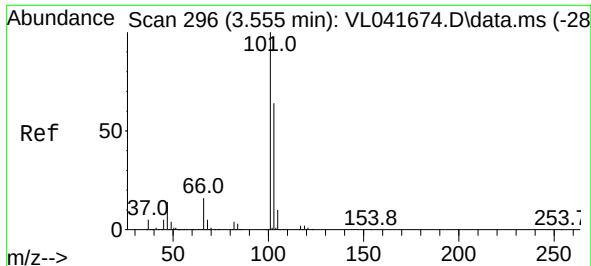
Tgt Ion: 43 Resp: 2284371

Ion Ratio Lower Upper

43 100

57 51.0 40.0 60.0





#11

Trichlorofluoromethane

Concen: 13.958 ppbv

RT: 3.562 min Scan# 296

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

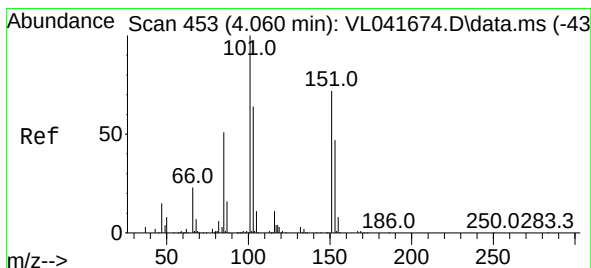
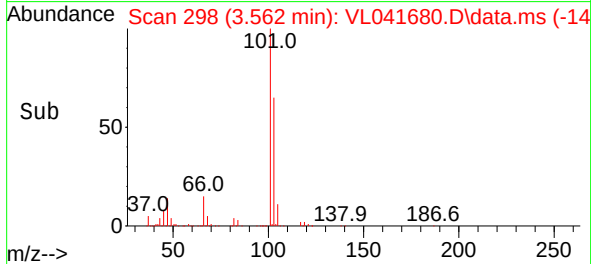
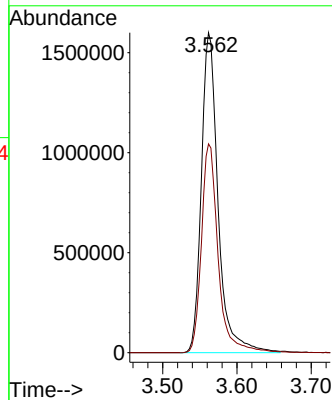
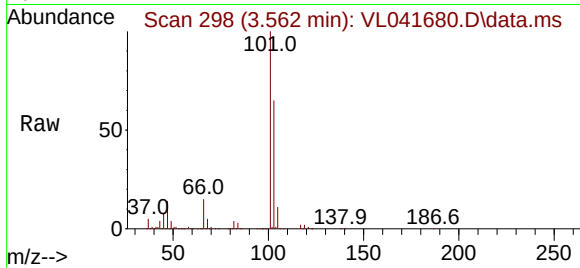
VSTDIC015

Tgt Ion:101 Resp: 2504580

Ion Ratio Lower Upper

101 100

103 65.2 51.0 76.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 14.068 ppbv

RT: 4.067 min Scan# 455

Delta R.T. 0.007 min

Lab File: VL041680.D

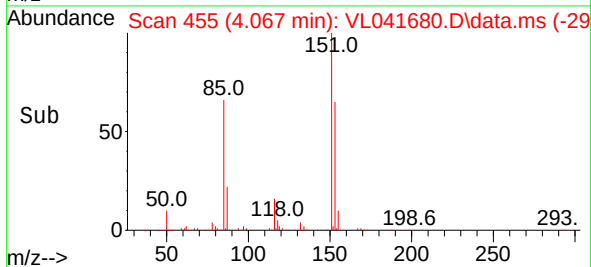
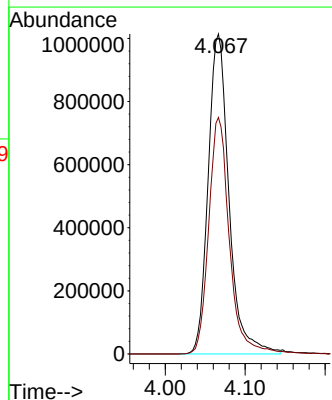
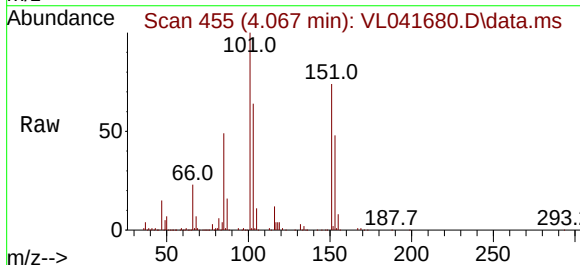
Acq: 7 Nov 2024 14:12

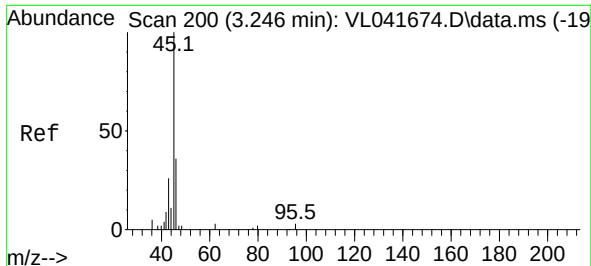
Tgt Ion:101 Resp: 1834846

Ion Ratio Lower Upper

101 100

151 73.7 59.1 88.7





#13

Ethanol

Concen: 6.000 ppbv

RT: 3.250 min Scan# 20

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

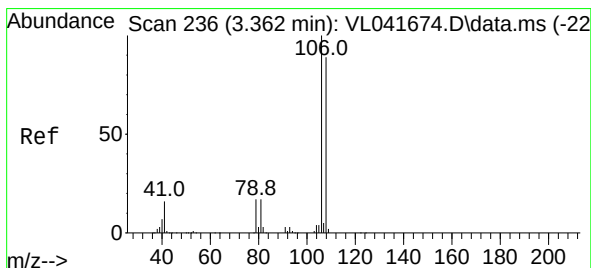
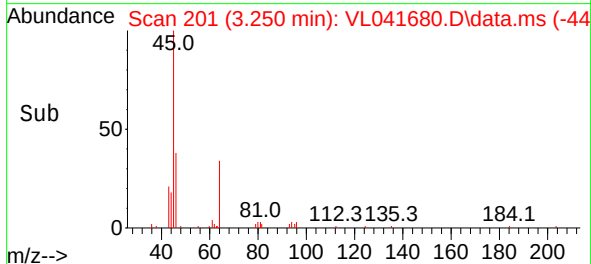
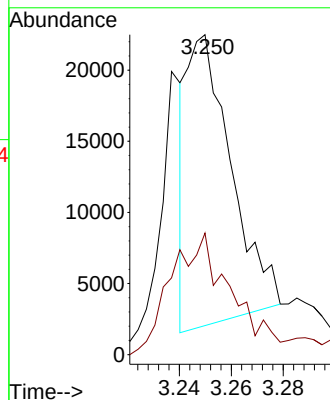
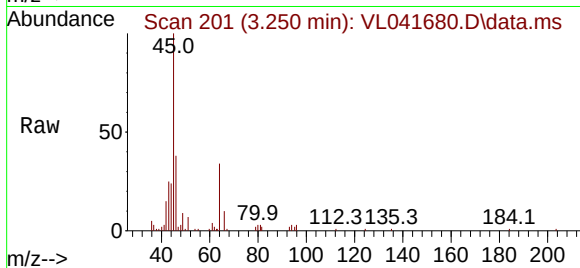
VSTDIC015

Tgt Ion: 45 Resp: 24151

Ion Ratio Lower Upper

45 100

46 63.8 13.8 55.2#



#14

Bromoethene

Concen: 14.401 ppbv

RT: 3.366 min Scan# 237

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

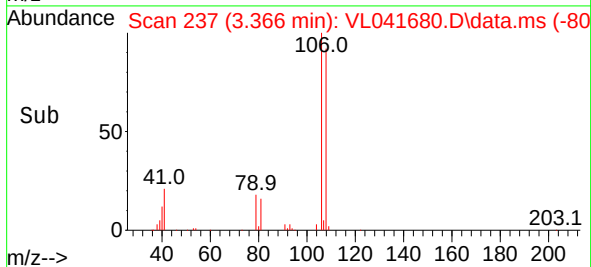
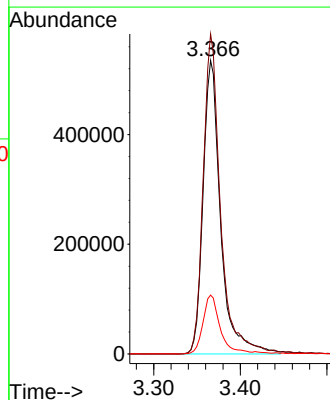
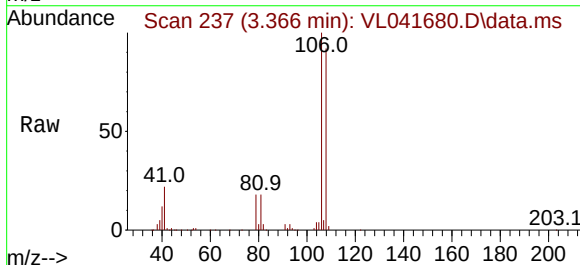
Tgt Ion:108 Resp: 755053

Ion Ratio Lower Upper

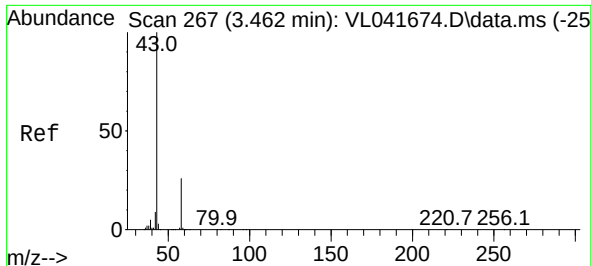
108 100

106 108.4 88.6 133.0

79 20.3 15.6 23.4







#15

Acetone

Concen: 13.448 ppbv

RT: 3.469 min Scan# 2

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

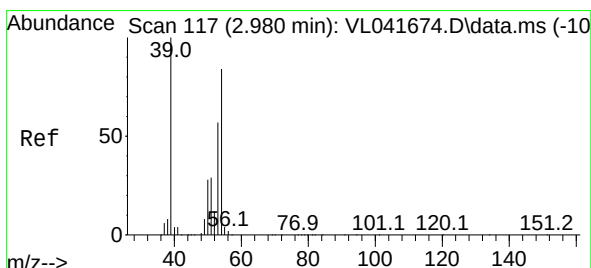
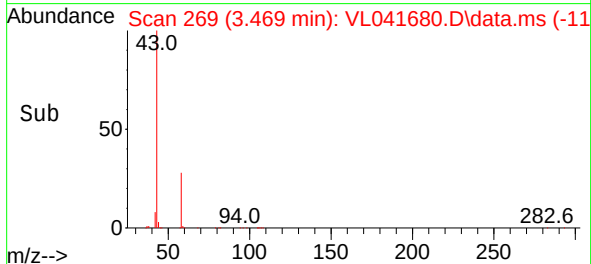
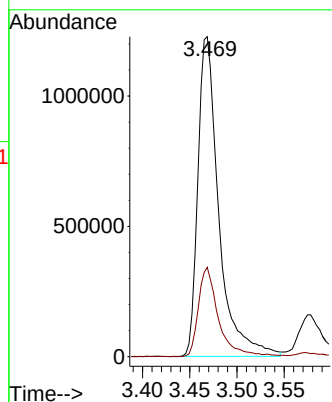
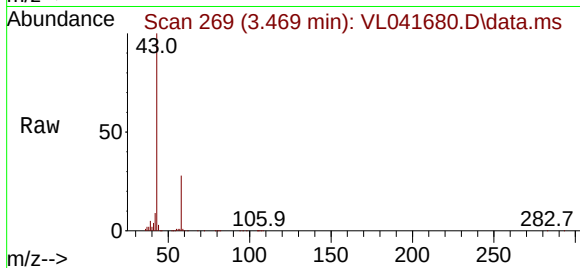
VSTDICC015

Tgt Ion: 43 Resp: 1886393

Ion Ratio Lower Upper

43 100

58 27.1 21.4 32.0



#16

1,3-Butadiene

Concen: 15.371 ppbv

RT: 2.986 min Scan# 119

Delta R.T. 0.007 min

Lab File: VL041680.D

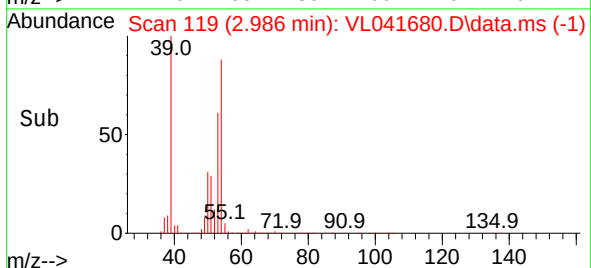
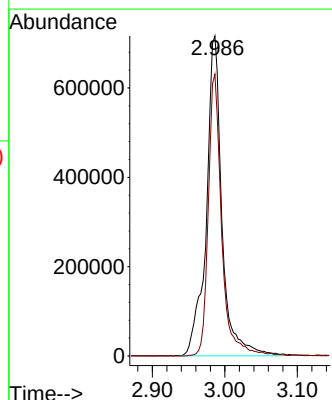
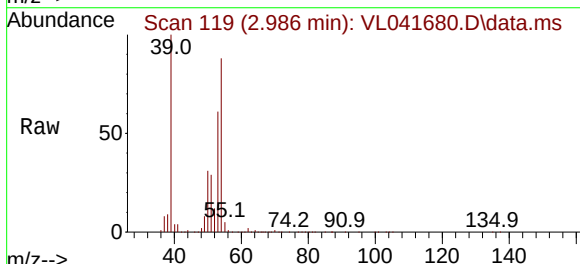
Acq: 7 Nov 2024 14:12

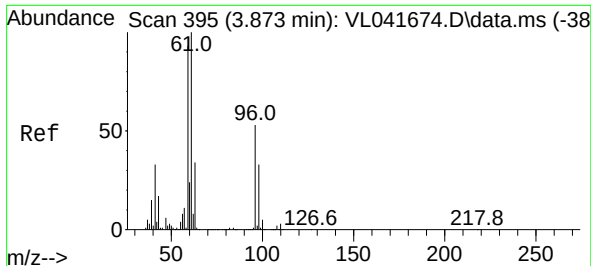
Tgt Ion: 39 Resp: 1081107

Ion Ratio Lower Upper

39 100

54 75.5 61.3 91.9

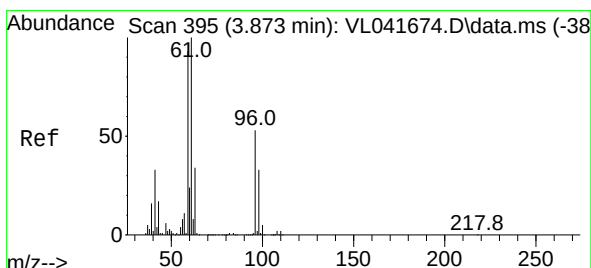
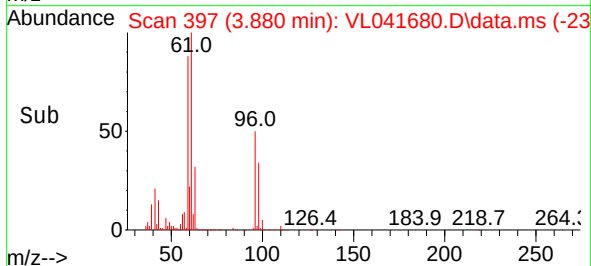
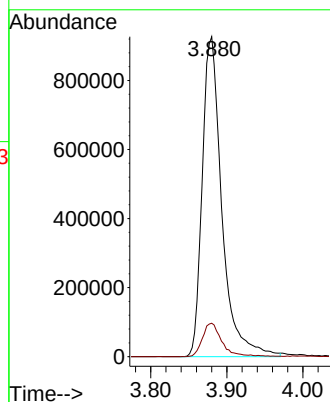
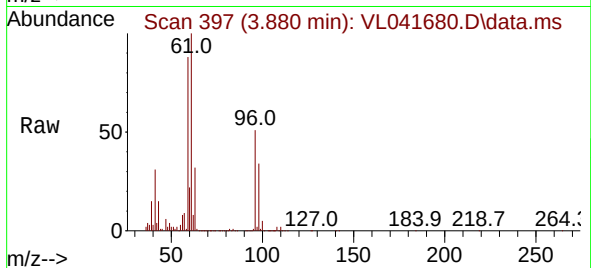




#17  
tert-Butyl alcohol  
Concen: 13.516 ppbv  
RT: 3.880 min Scan# 397  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

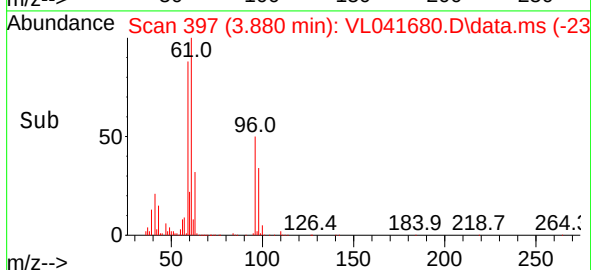
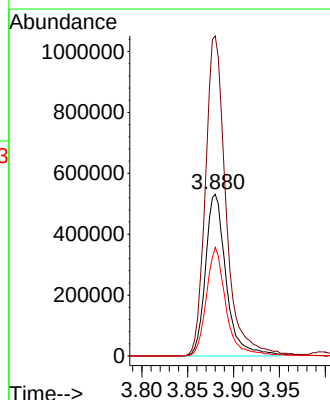
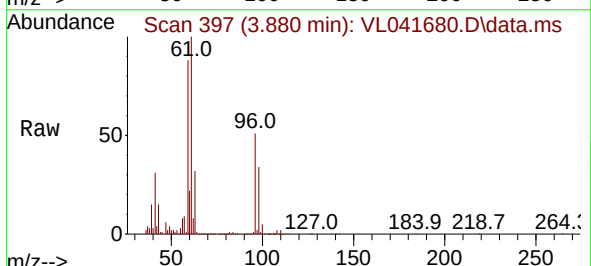
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

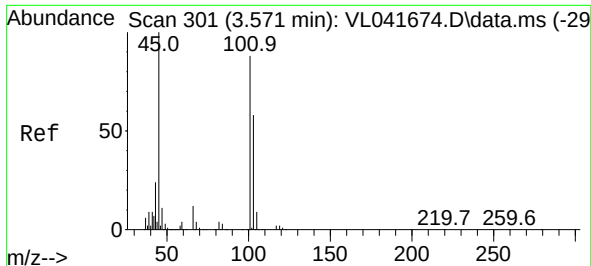
Tgt Ion: 59 Resp: 1663672  
Ion Ratio Lower Upper  
59 100  
57 10.5 8.5 12.7



#18  
1,1-Dichloroethene  
Concen: 14.596 ppbv  
RT: 3.880 min Scan# 397  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 96 Resp: 834933  
Ion Ratio Lower Upper  
96 100  
61 198.0 150.7 226.1  
98 67.2 49.4 74.2





#19

Isopropyl Alcohol

Concen: 13.406 ppbv

RT: 3.575 min Scan# 301

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

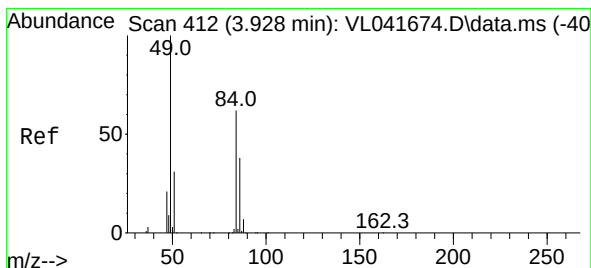
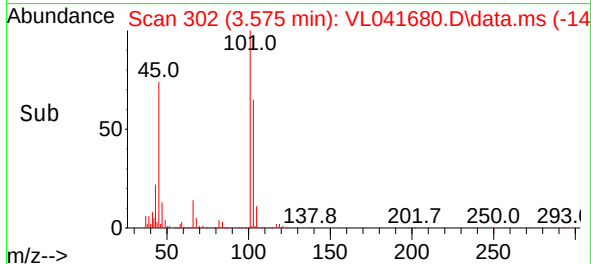
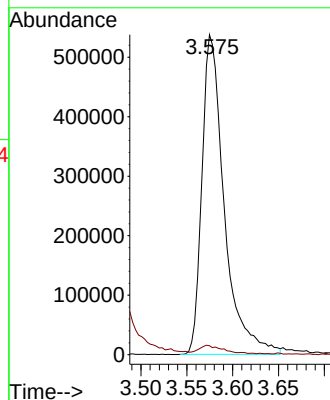
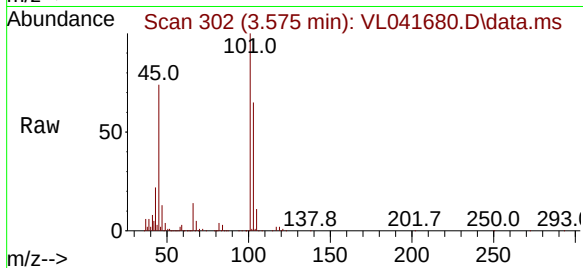
VSTDIC015

Tgt Ion: 45 Resp: 910280

Ion Ratio Lower Upper

45 100

58 3.1 2.5 3.7



#20

Methylene Chloride

Concen: 13.313 ppbv

RT: 3.932 min Scan# 413

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Tgt Ion: 84 Resp: 687212

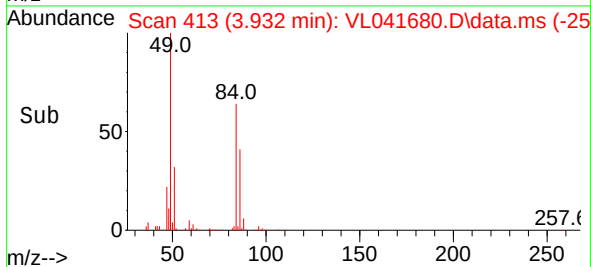
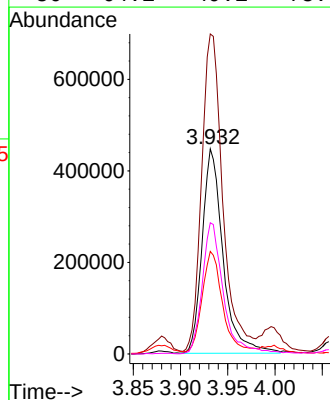
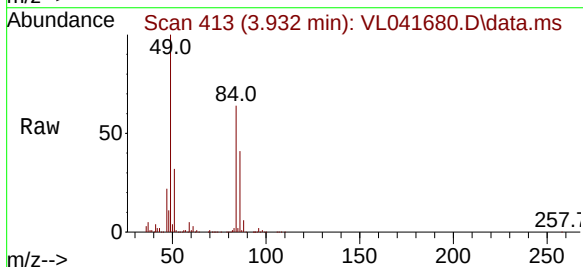
Ion Ratio Lower Upper

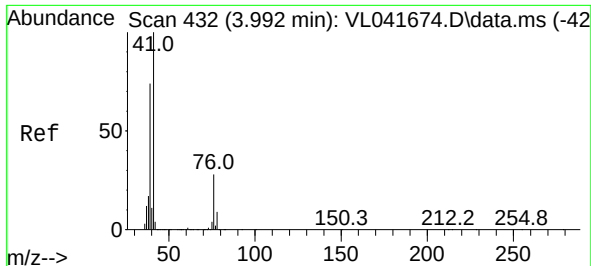
84 100

49 155.1 129.7 194.5

51 48.9 39.8 59.6

86 64.1 49.1 73.7

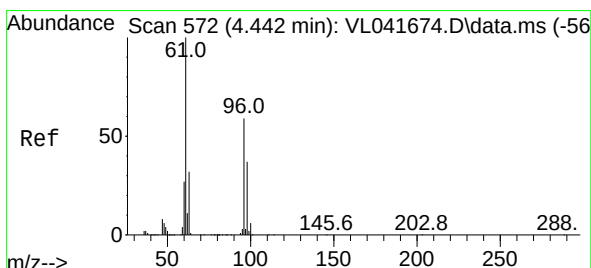
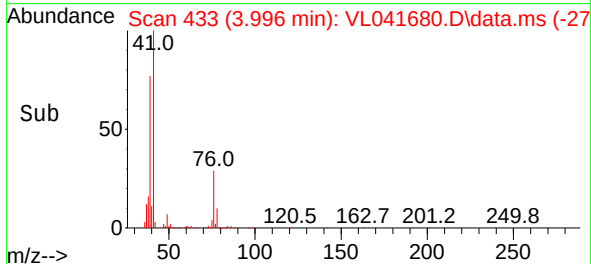
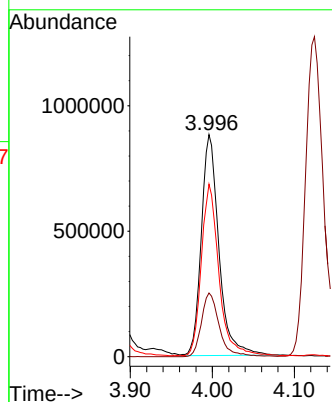
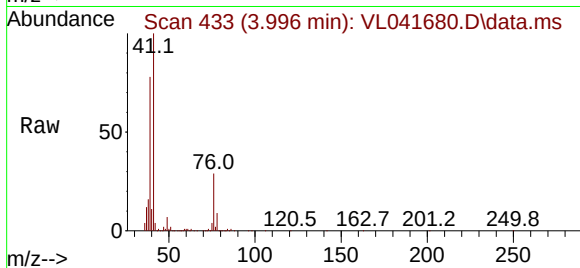




#21  
 Allyl Chloride  
 Concen: 15.194 ppbv  
 RT: 3.996 min Scan# 41  
 Delta R.T. 0.003 min  
 Lab File: VL041680.D  
 Acq: 7 Nov 2024 14:12

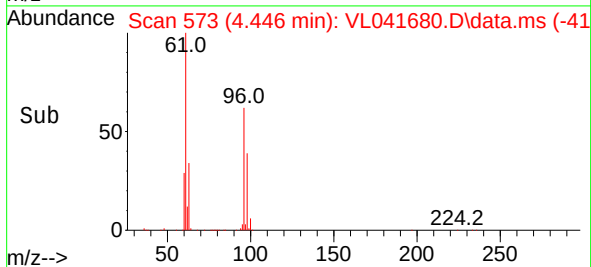
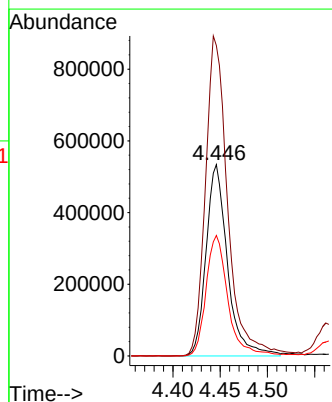
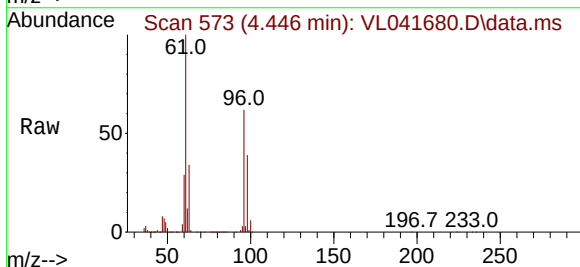
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

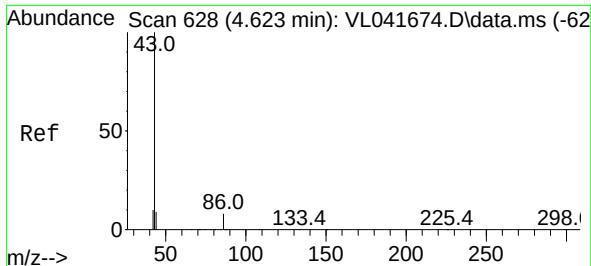
Tgt Ion: 41 Resp: 1317025  
 Ion Ratio Lower Upper  
 41 100  
 76 29.3 23.5 35.3  
 39 77.7 63.0 94.4



#22  
 trans-1,2-Dichloroethene  
 Concen: 14.755 ppbv  
 RT: 4.446 min Scan# 573  
 Delta R.T. 0.003 min  
 Lab File: VL041680.D  
 Acq: 7 Nov 2024 14:12

Tgt Ion: 96 Resp: 842095  
 Ion Ratio Lower Upper  
 96 100  
 61 162.3 134.5 201.7  
 98 62.9 49.6 74.4





#23

Vinyl Acetate

Concen: 14.047 ppbv

RT: 4.626 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 926796

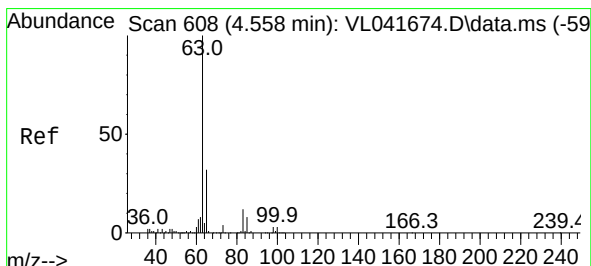
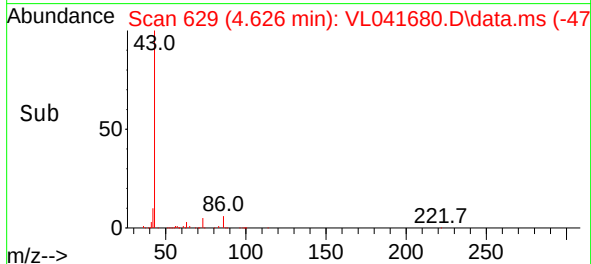
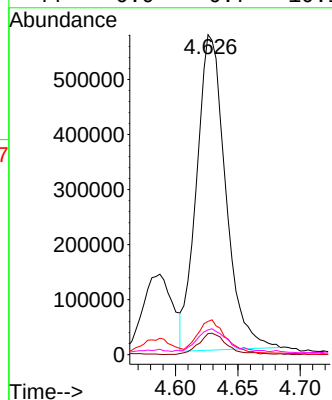
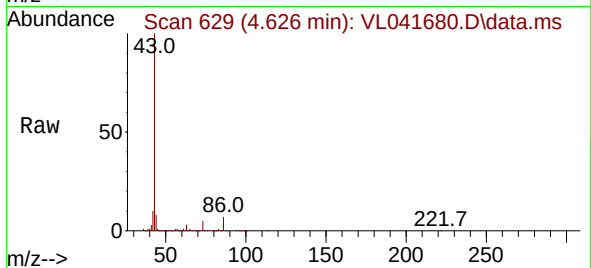
Ion Ratio Lower Upper

43 100

86 6.4 5.3 7.9

42 10.1 8.5 12.7

44 6.9 6.7 10.1



#24

1,1-Dichloroethane

Concen: 14.103 ppbv

RT: 4.565 min Scan# 610

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

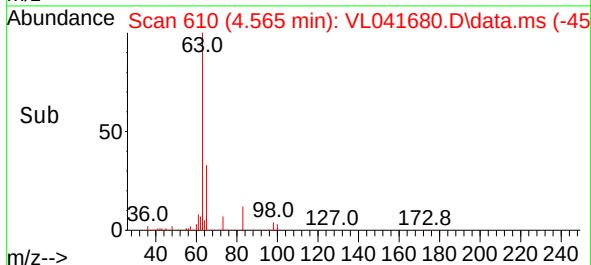
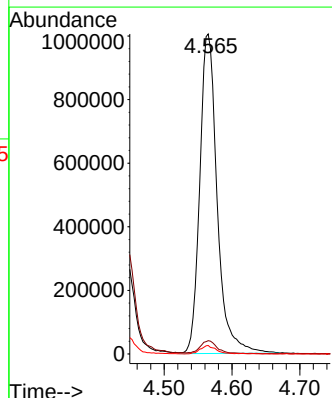
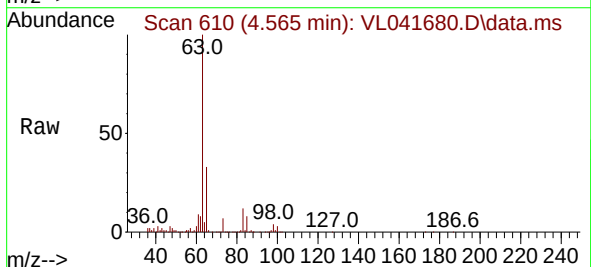
Tgt Ion: 63 Resp: 1790354

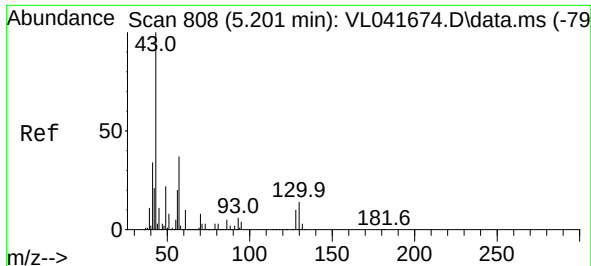
Ion Ratio Lower Upper

63 100

98 4.1 1.8 5.4

100 2.6 1.4 4.2





#25

Ethyl Acetate

Concen: 14.583 ppbv

RT: 5.205 min Scan# 809

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 4234322

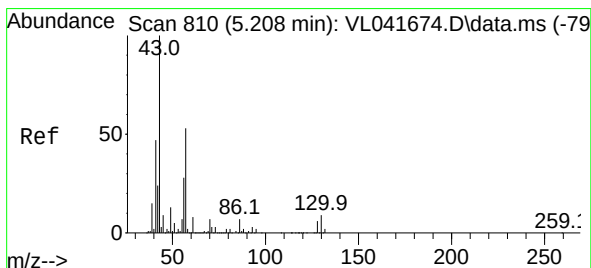
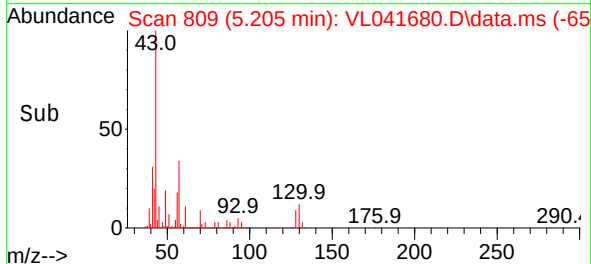
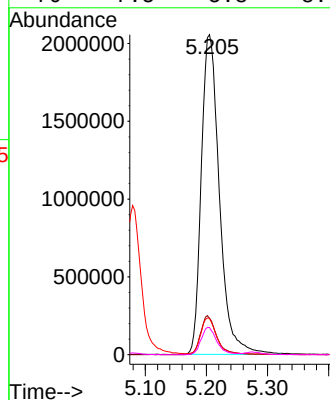
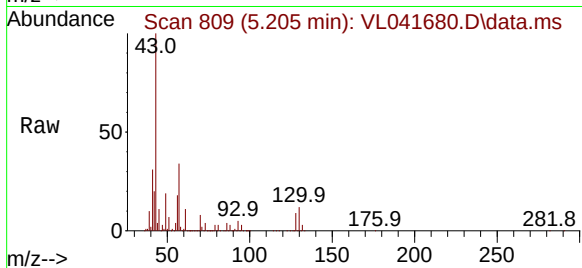
Ion Ratio Lower Upper

43 100

45 10.9 8.6 13.0

61 10.4 8.4 12.6

70 7.5 5.8 8.6



#26

Hexane

Concen: 15.184 ppbv

RT: 5.211 min Scan# 811

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Tgt Ion: 57 Resp: 1693823

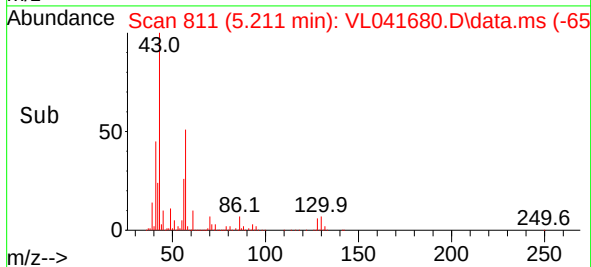
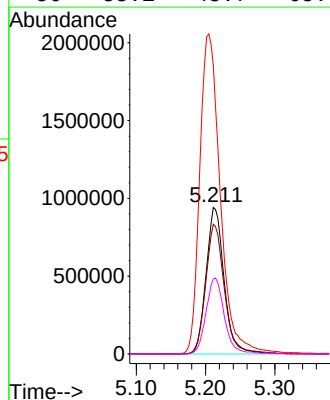
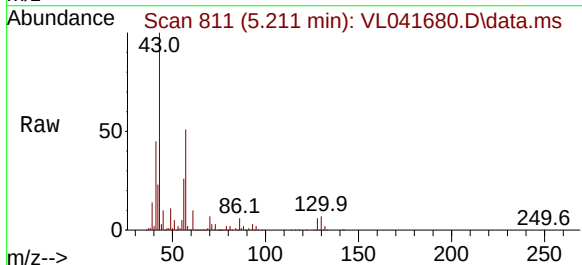
Ion Ratio Lower Upper

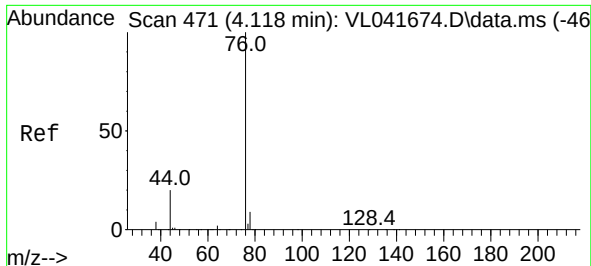
57 100

41 92.5 76.1 114.1

43 250.9 207.0 310.6

56 53.1 43.7 65.5

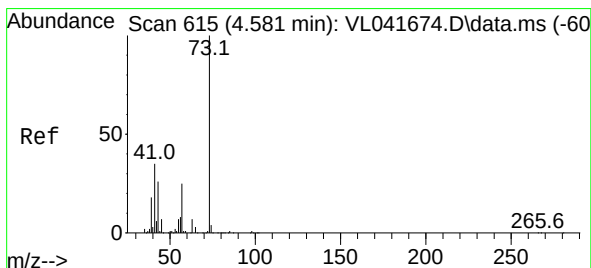
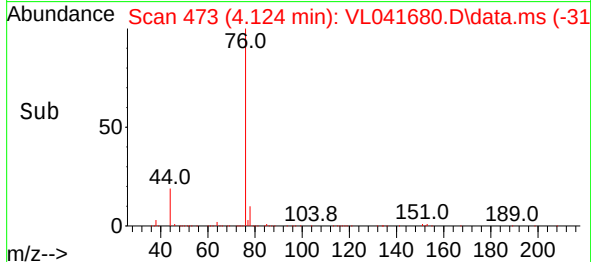
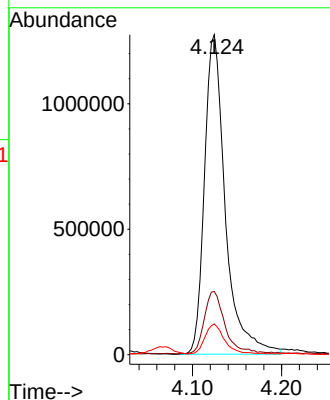
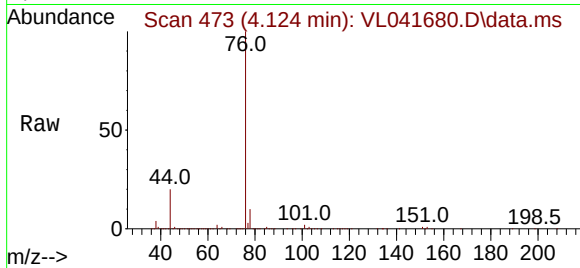




#27  
Carbon Disulfide  
Concen: 16.531 ppbv  
RT: 4.124 min Scan# 41  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

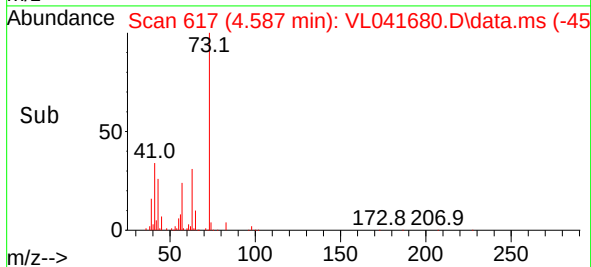
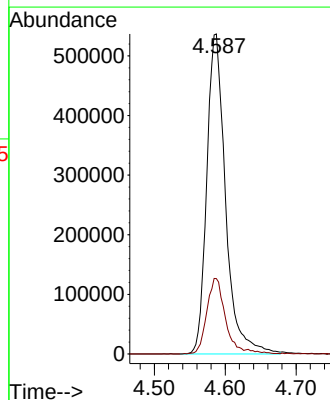
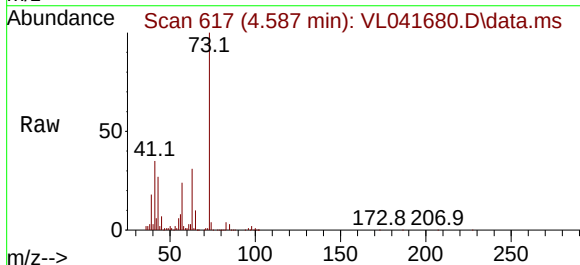
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

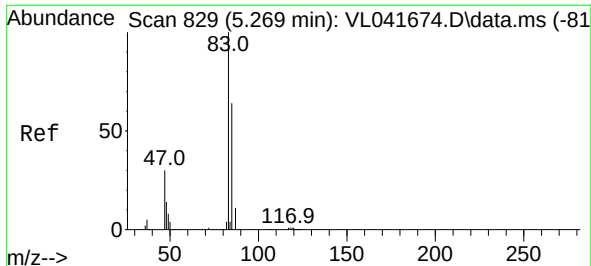
Tgt Ion: 76 Resp: 2071779  
Ion Ratio Lower Upper  
76 100  
44 20.4 15.8 23.8  
78 9.5 7.5 11.3



#28  
Methyl tert-Butyl Ether  
Concen: 13.764 ppbv  
RT: 4.587 min Scan# 617  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 73 Resp: 988726  
Ion Ratio Lower Upper  
73 100  
57 23.9 19.6 29.4





#29

Chloroform

Concen: 14.204 ppbv

RT: 5.276 min Scan# 81

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

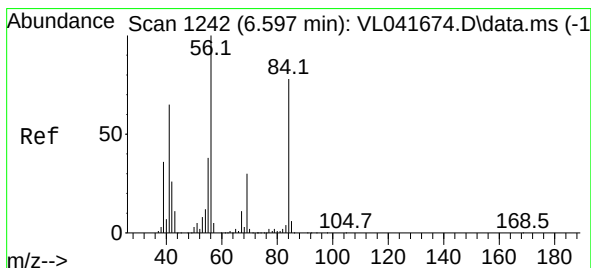
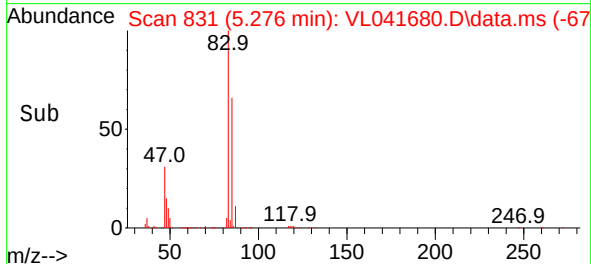
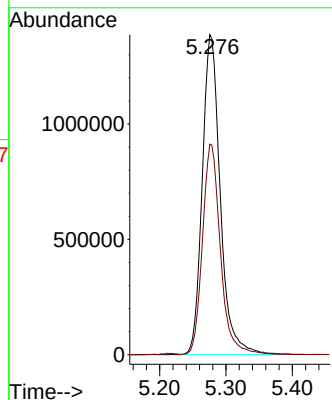
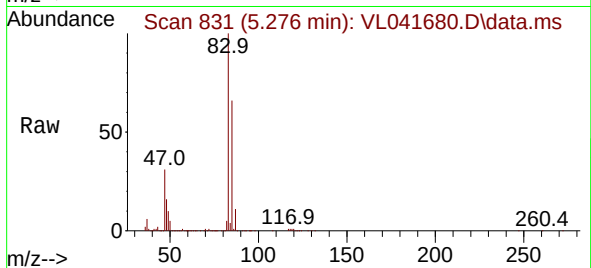
VSTDICC015

Tgt Ion: 83 Resp: 2615593

Ion Ratio Lower Upper

83 100

85 65.7 51.1 76.7



#30

Cyclohexane

Concen: 16.132 ppbv

RT: 6.600 min Scan# 1243

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

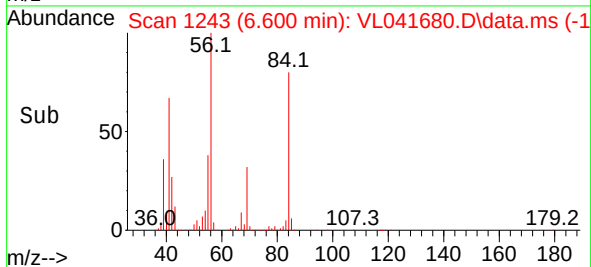
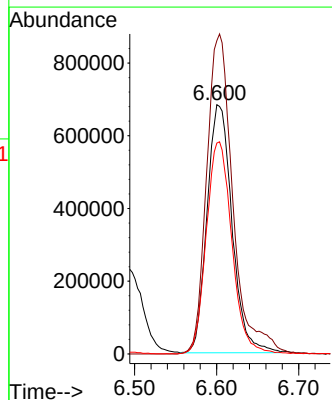
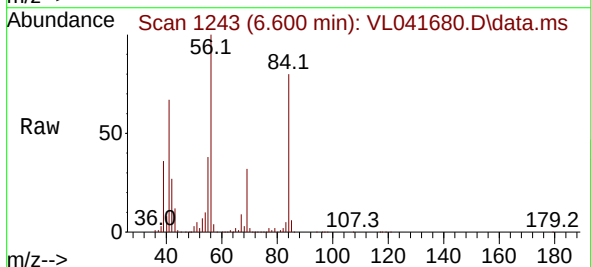
Tgt Ion: 84 Resp: 1445757

Ion Ratio Lower Upper

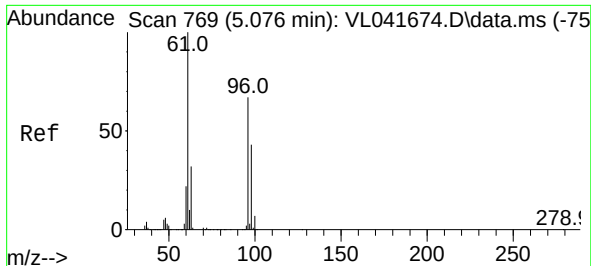
84 100

56 135.8 110.8 166.2

41 87.5 70.0 105.0







#31

cis-1,2-Dichloroethene

Concen: 15.426 ppbv

RT: 5.079 min Scan# 71

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

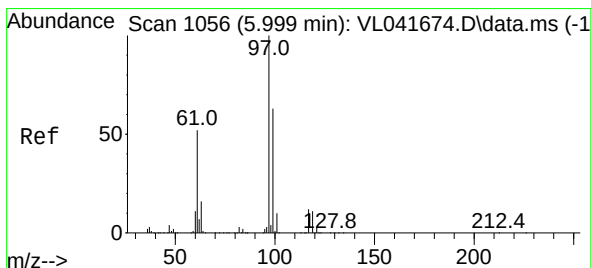
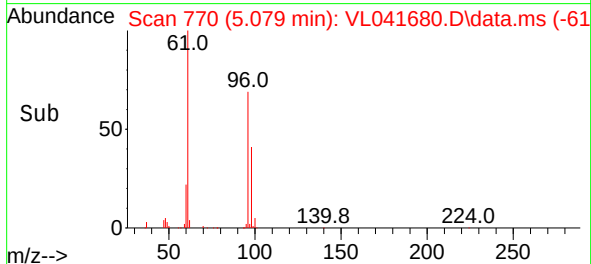
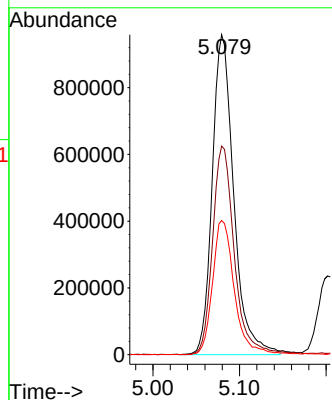
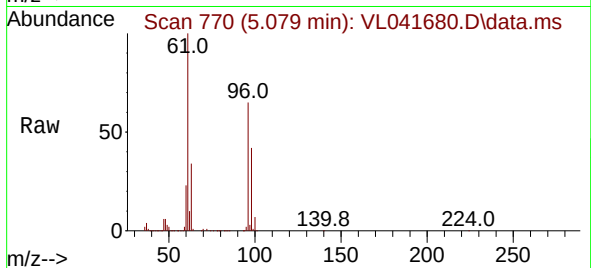
Tgt Ion: 61 Resp: 1655410

Ion Ratio Lower Upper

61 100

96 65.1 53.4 80.2

98 41.9 34.0 51.0



#32

1,1,1-Trichloroethane

Concen: 15.262 ppbv

RT: 6.005 min Scan# 1058

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

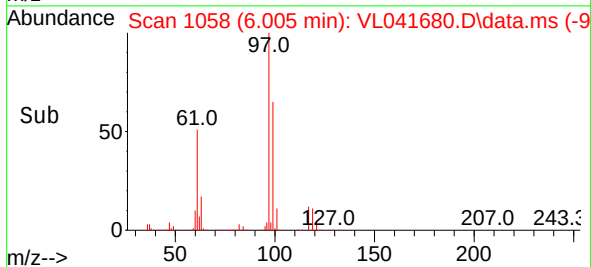
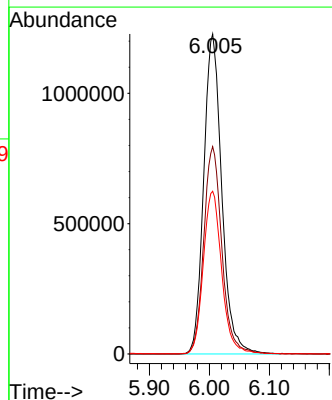
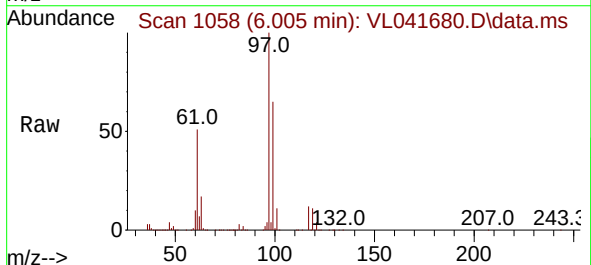
Tgt Ion: 97 Resp: 2576420

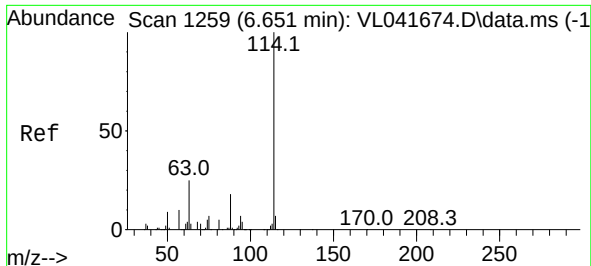
Ion Ratio Lower Upper

97 100

99 65.0 51.4 77.2

61 51.8 41.7 62.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015

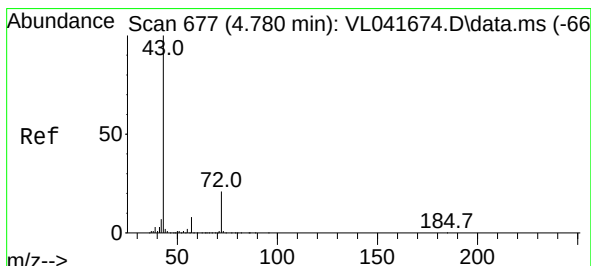
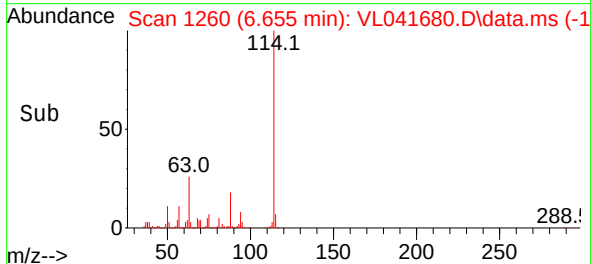
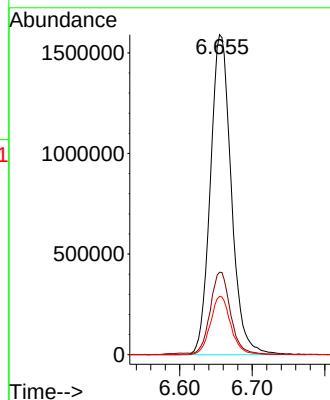
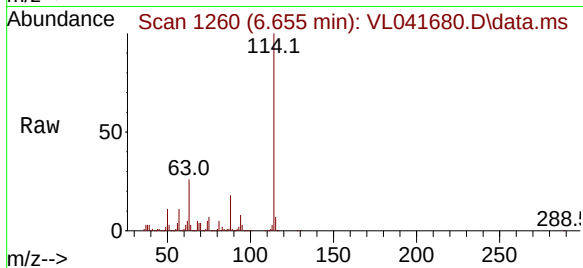
Tgt Ion:114 Resp: 3182548

Ion Ratio Lower Upper

114 100

63 25.7 20.3 30.5

88 17.9 14.2 21.4



#34

2-Butanone

Concen: 15.033 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.007 min

Lab File: VL041680.D

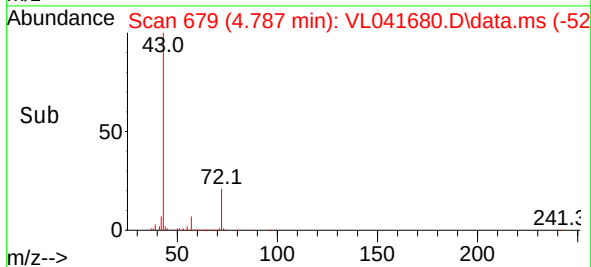
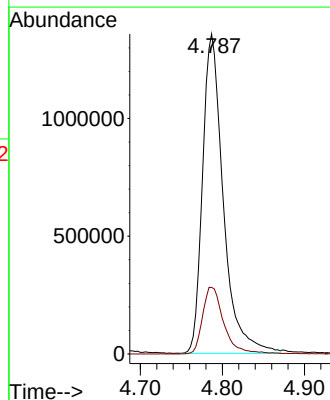
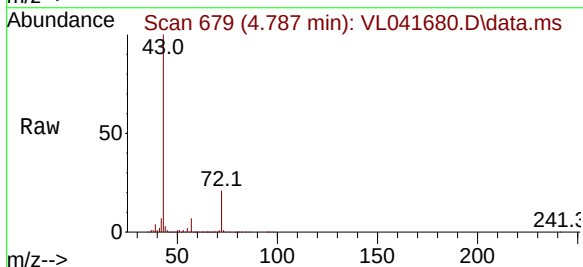
Acq: 7 Nov 2024 14:12

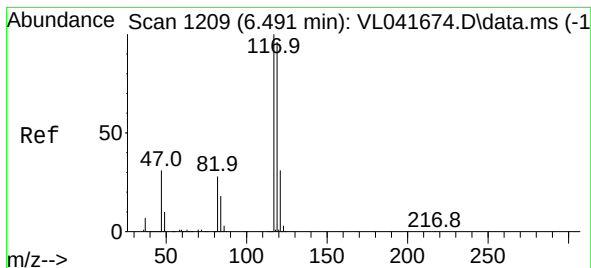
Tgt Ion: 43 Resp: 2382292

Ion Ratio Lower Upper

43 100

72 21.6 17.4 26.0





#35

Carbon Tetrachloride

Concen: 16.220 ppbv

RT: 6.497 min Scan# 117

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC015

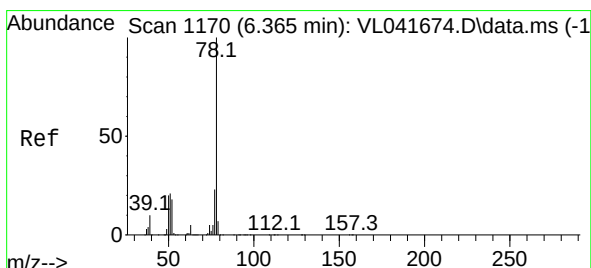
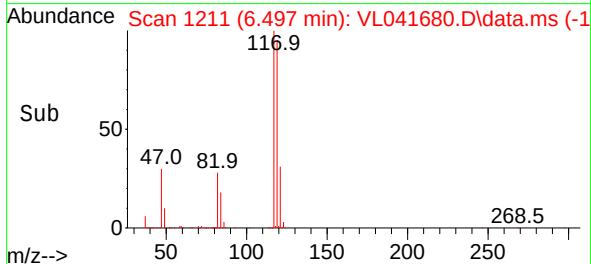
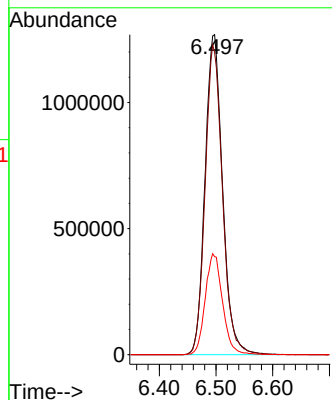
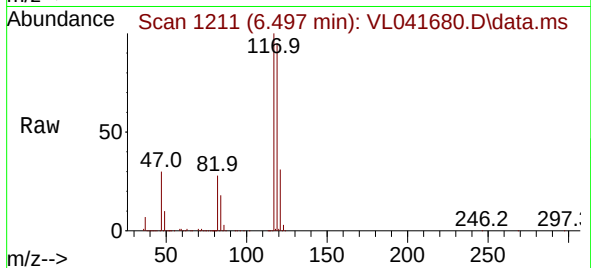
Tgt Ion:117 Resp: 2728914

Ion Ratio Lower Upper

117 100

119 94.5 77.2 115.8

121 30.7 25.0 37.4



#36

Benzene

Concen: 15.182 ppbv

RT: 6.372 min Scan# 1172

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

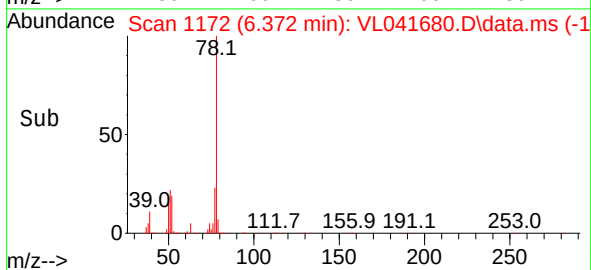
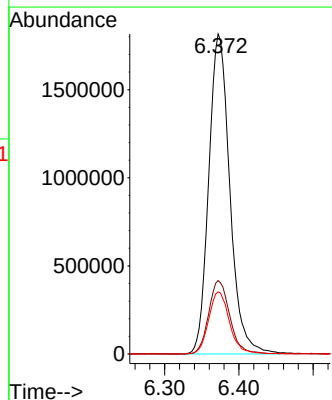
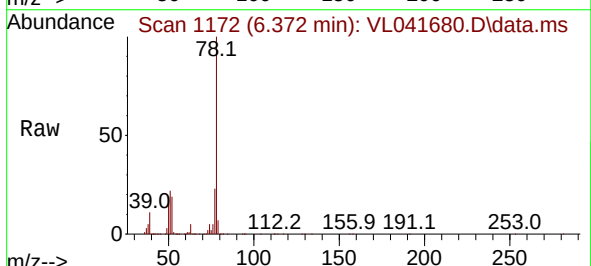
Tgt Ion: 78 Resp: 3579956

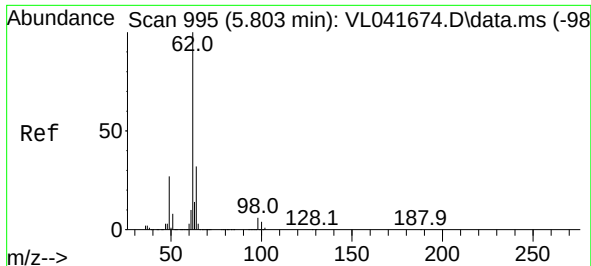
Ion Ratio Lower Upper

78 100

77 22.9 18.5 27.7

50 19.4 15.6 23.4

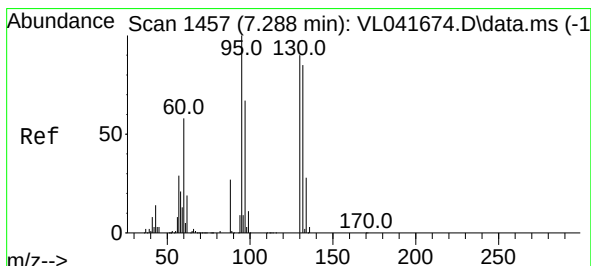
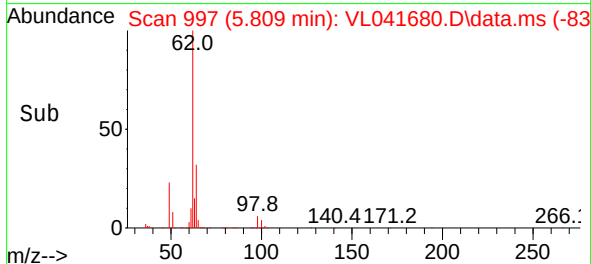
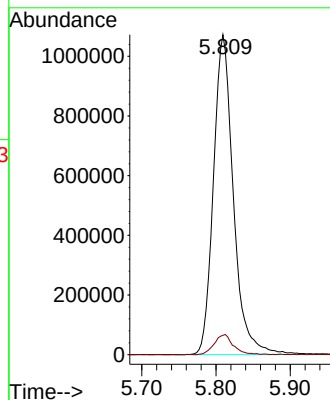
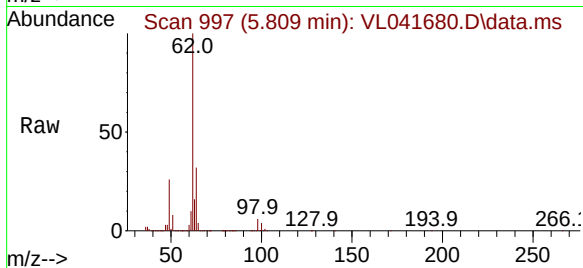




#37  
1,2-Dichloroethane  
Concen: 14.978 ppbv  
RT: 5.809 min Scan# 995  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

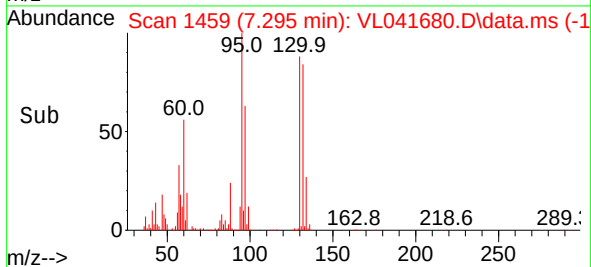
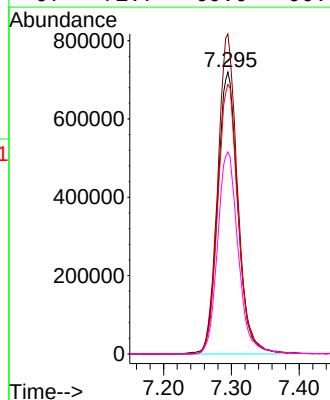
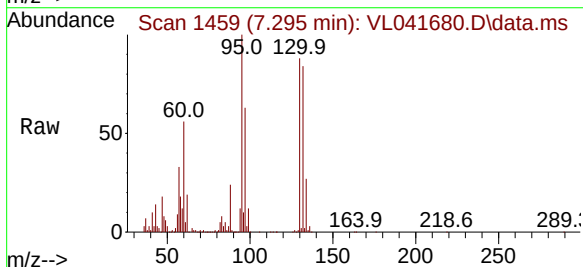
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

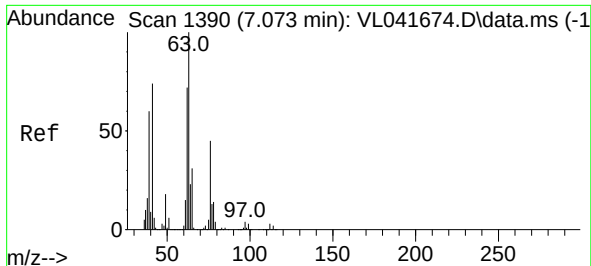
Tgt Ion: 62 Resp: 1992504  
Ion Ratio Lower Upper  
62 100  
98 6.2 5.2 7.8



#38  
Trichloroethene  
Concen: 16.410 ppbv  
RT: 7.295 min Scan# 1459  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion:130 Resp: 1492186  
Ion Ratio Lower Upper  
130 100  
95 113.5 89.1 133.7  
132 95.6 75.7 113.5  
97 71.7 60.0 90.0





#39

1,2-Dichloropropane

Concen: 15.081 ppbv

RT: 7.076 min Scan# 1405

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

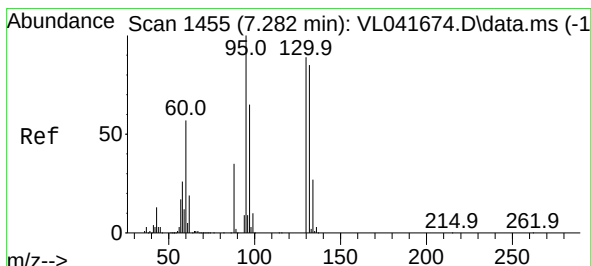
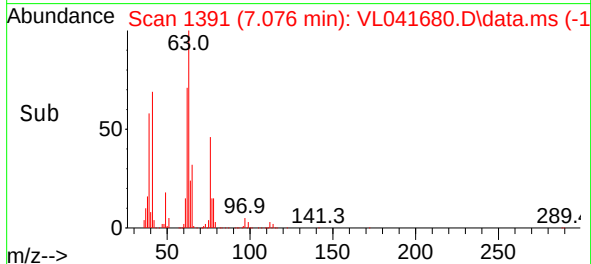
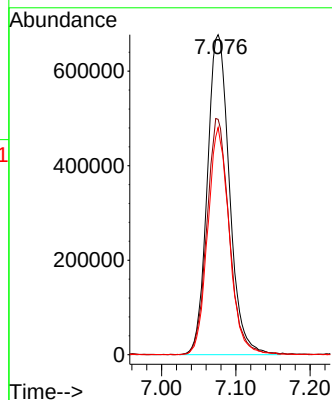
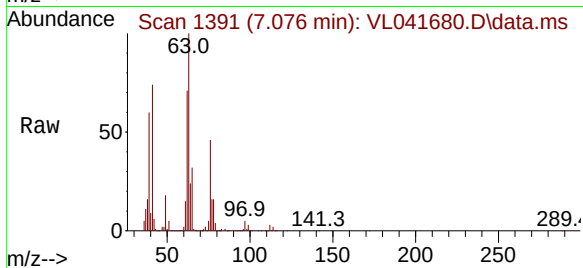
Tgt Ion: 63 Resp: 1405373

Ion Ratio Lower Upper

63 100

41 73.5 59.1 88.7

62 70.9 57.7 86.5



#40

1,4-Dioxane

Concen: 16.521 ppbv

RT: 7.285 min Scan# 1456

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Tgt Ion: 88 Resp: 545340

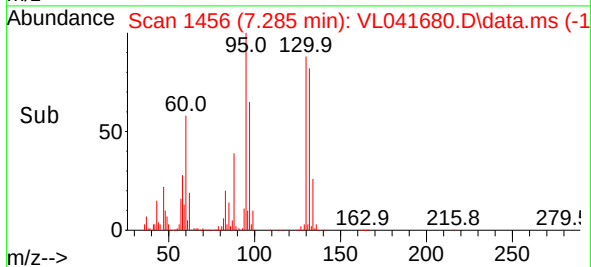
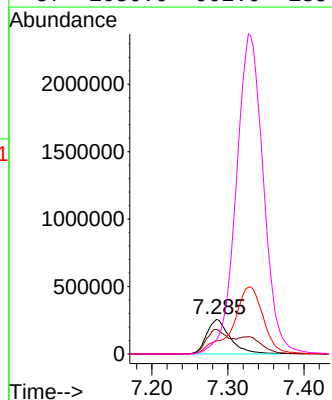
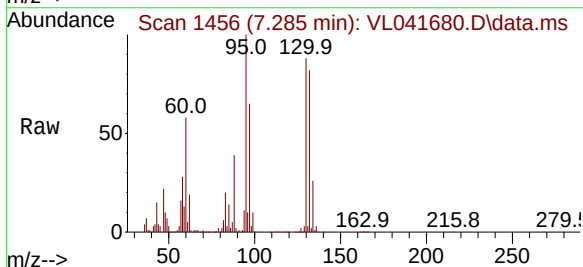
Ion Ratio Lower Upper

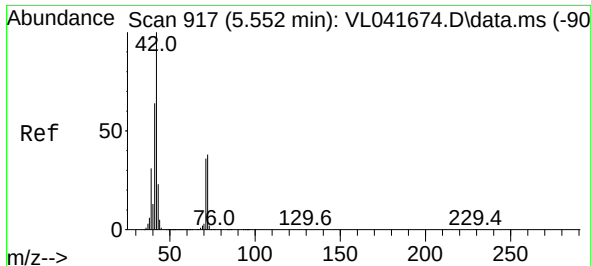
88 100

58 122.1 101.4 152.2

43 254.6 208.0 312.0

57 1086.0 902.9 1354.3





#41

Tetrahydrofuran

Concen: 16.040 ppbv

RT: 5.555 min Scan# 917

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

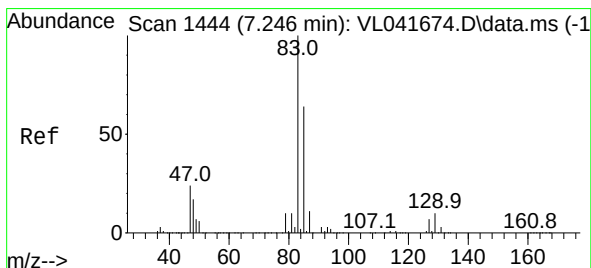
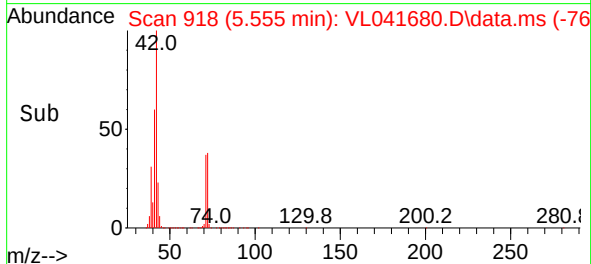
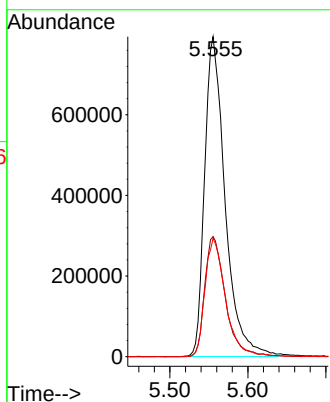
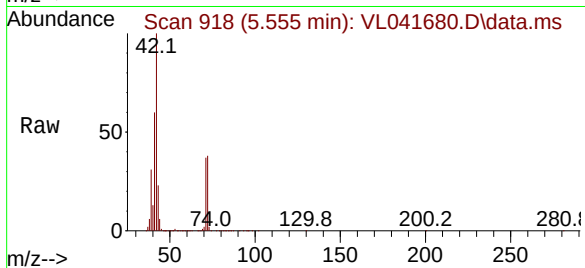
Tgt Ion: 42 Resp: 1449986

Ion Ratio Lower Upper

42 100

72 38.0 29.8 44.6

71 37.3 29.4 44.2



#42

Bromodichloromethane

Concen: 15.522 ppbv

RT: 7.253 min Scan# 1446

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

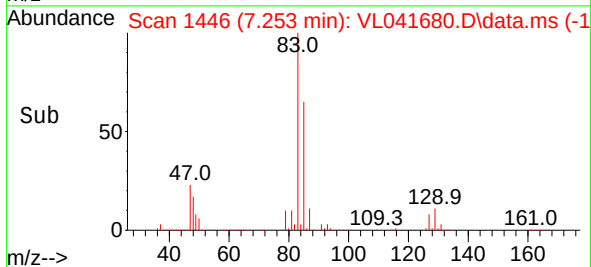
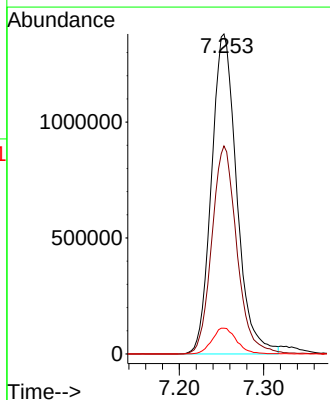
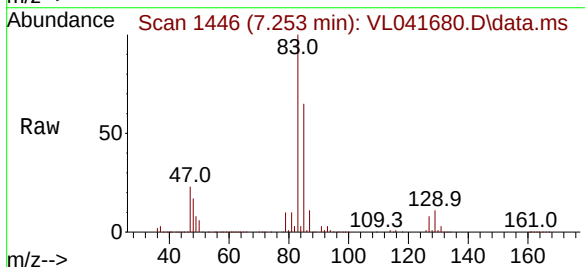
Tgt Ion: 83 Resp: 2869440

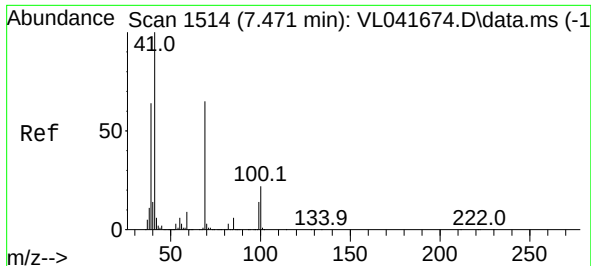
Ion Ratio Lower Upper

83 100

85 65.0 51.2 76.8

127 8.0 6.0 9.0





#43

Methyl Methacrylate

Concen: 17.388 ppbv

RT: 7.475 min Scan# 1468

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015

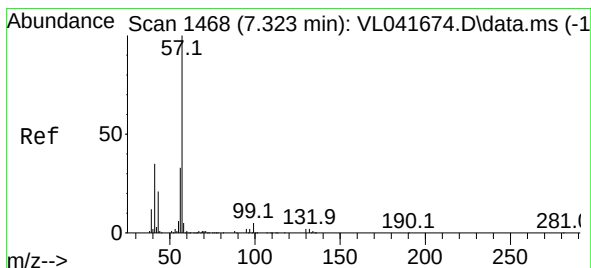
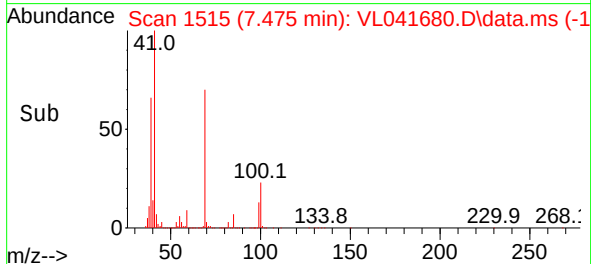
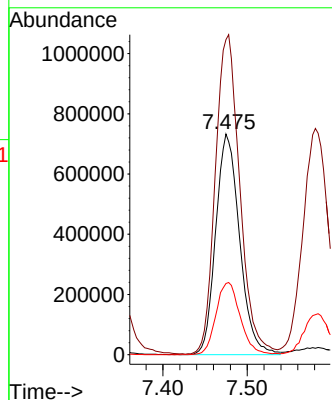
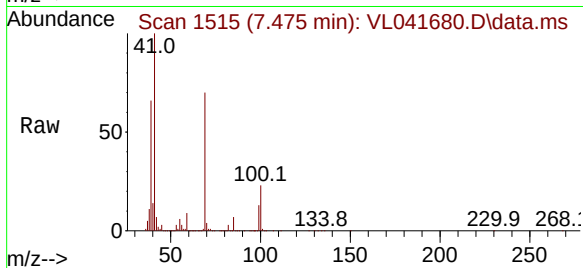
Tgt Ion: 69 Resp: 1439612

Ion Ratio Lower Upper

69 100

41 148.6 119.8 179.6

100 33.3 27.3 40.9



#44

2,2,4-Trimethylpentane

Concen: 14.828 ppbv

RT: 7.327 min Scan# 1469

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

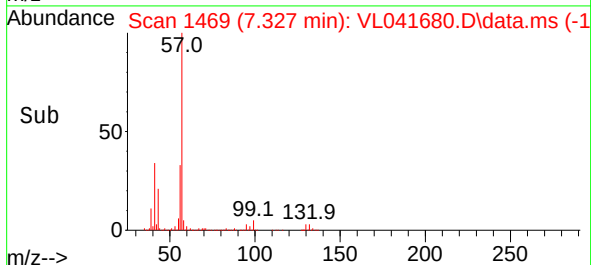
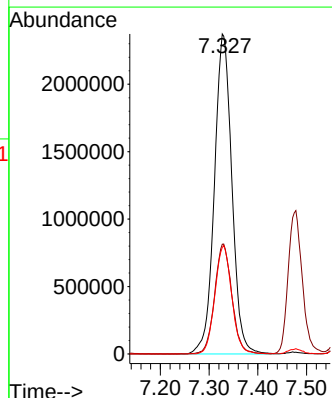
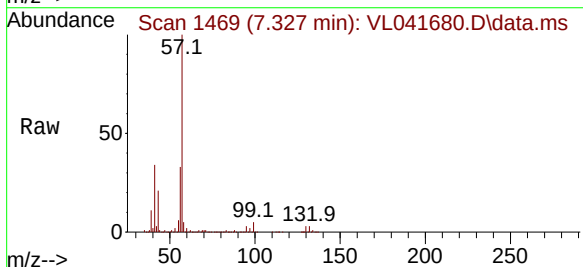
Tgt Ion: 57 Resp: 5922866

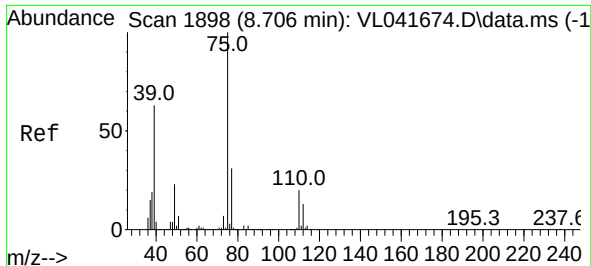
Ion Ratio Lower Upper

57 100

41 33.8 27.0 40.6

56 32.7 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 19.850 ppbv

RT: 8.713 min Scan# 1

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

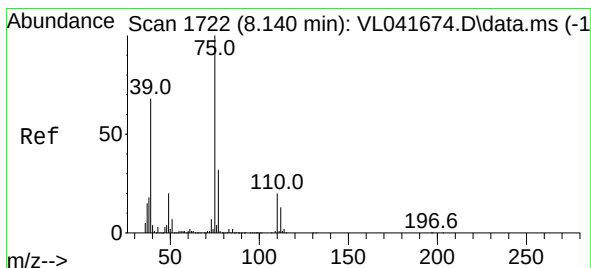
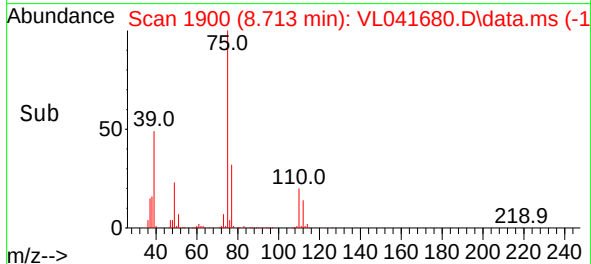
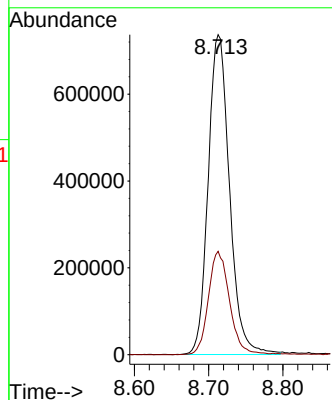
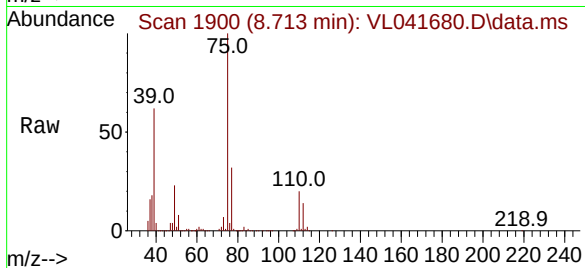
VSTDIC015

Tgt Ion: 75 Resp: 1469151

Ion Ratio Lower Upper

75 100

77 32.3 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 18.259 ppbv

RT: 8.144 min Scan# 1723

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

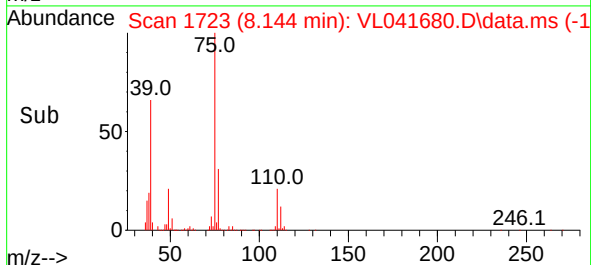
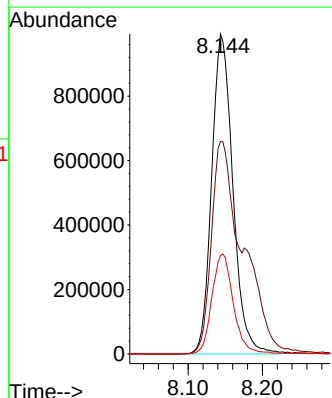
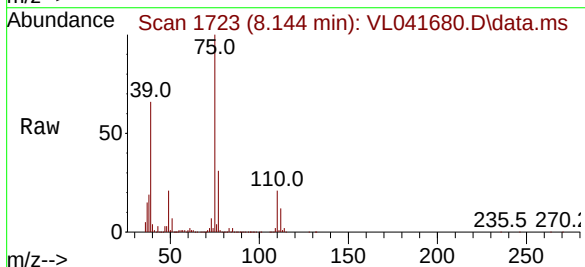
Tgt Ion: 75 Resp: 1964082

Ion Ratio Lower Upper

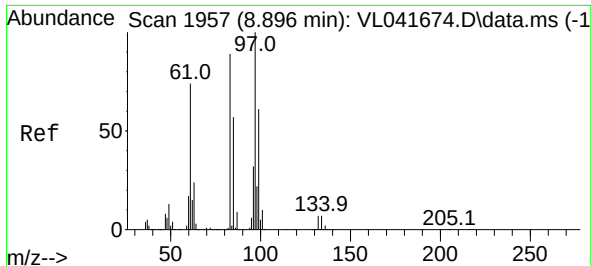
75 100

39 66.4 54.1 81.1

77 30.7 25.3 37.9







#47

1,1,2-Trichloroethane

Concen: 14.895 ppbv

RT: 8.902 min Scan# 1957

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

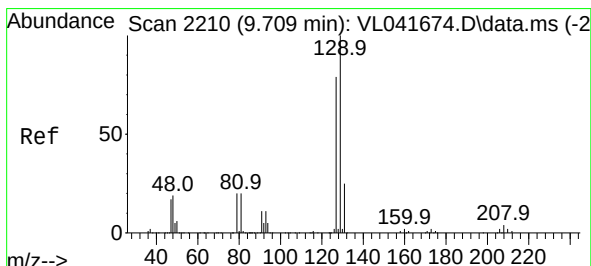
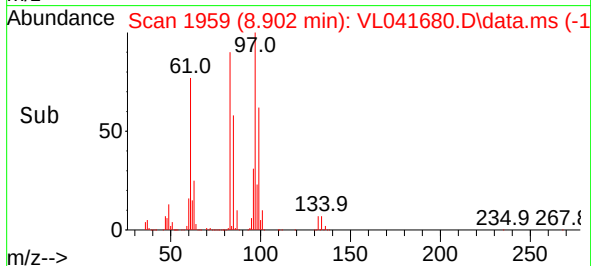
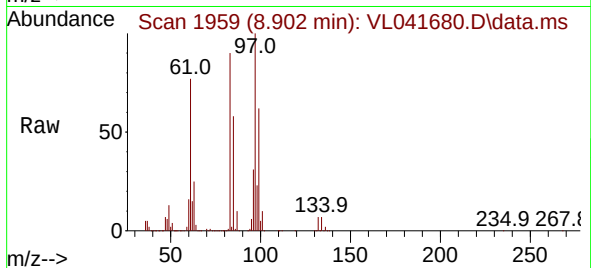
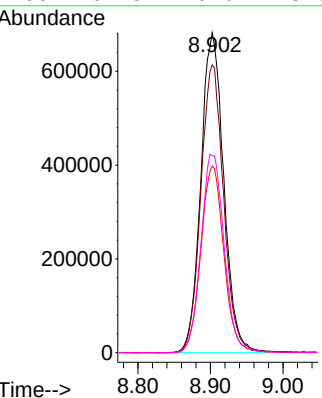
MSVOA\_L

ClientSampleId :

VSTDICC015

Tgt Ion: 97 Resp: 1496508

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 89.9  | 71.0  | 106.6 |
| 85  | 58.3  | 45.4  | 68.2  |
| 99  | 61.6  | 49.0  | 73.6  |



#48

Dibromochloromethane

Concen: 16.444 ppbv

RT: 9.713 min Scan# 2211

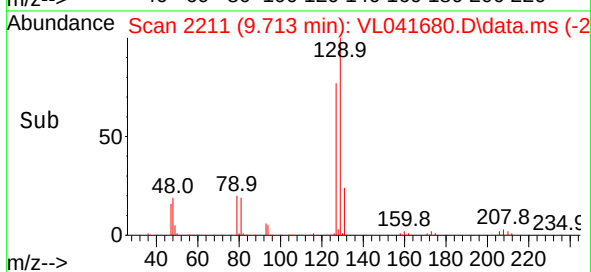
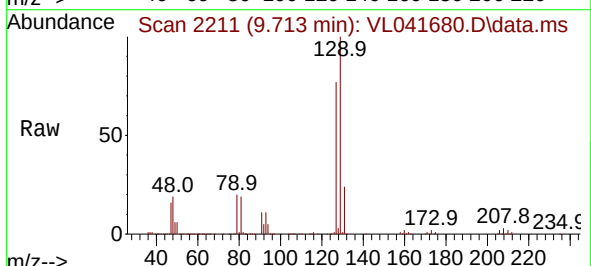
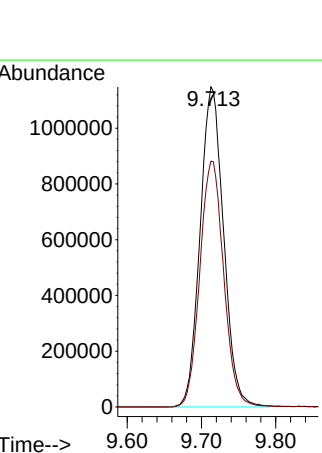
Delta R.T. 0.003 min

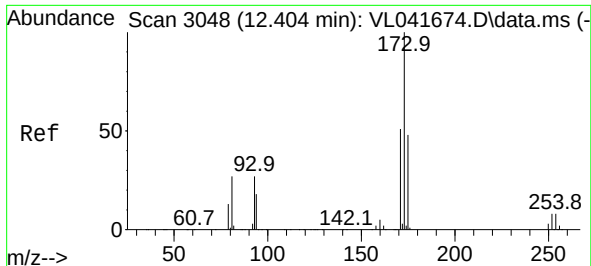
Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Tgt Ion: 129 Resp: 2521147

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.0  | 39.1  | 117.2 |





#49

Bromoform

Concen: 17.318 ppbv

RT: 12.413 min Scan# 3048

Delta R.T. 0.010 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

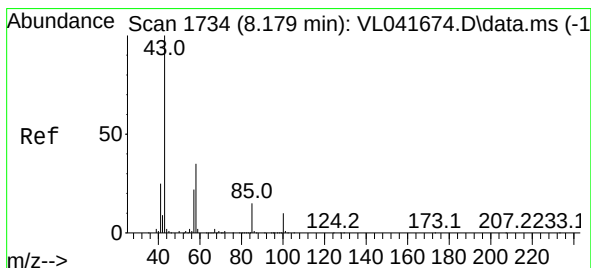
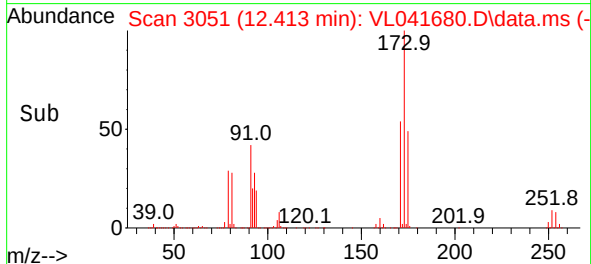
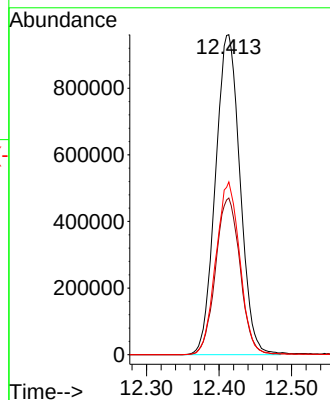
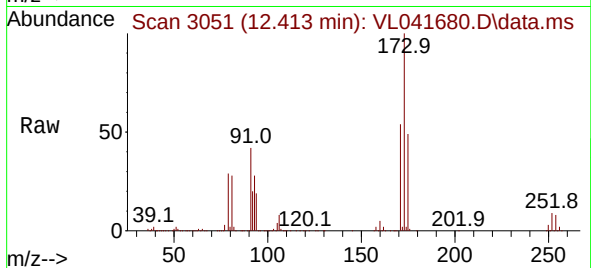
Tgt Ion:173 Resp: 2265132

Ion Ratio Lower Upper

173 100

175 49.1 39.2 58.8

171 52.8 41.7 62.5



#50

4-Methyl-2-Pentanone

Concen: 15.919 ppbv

RT: 8.182 min Scan# 1735

Delta R.T. 0.003 min

Lab File: VL041680.D

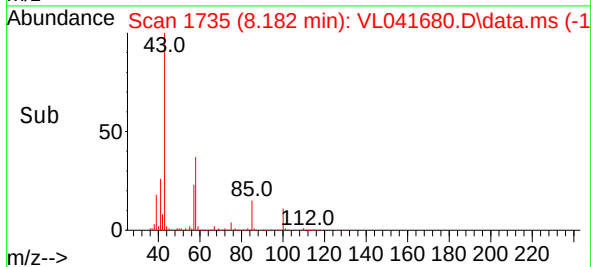
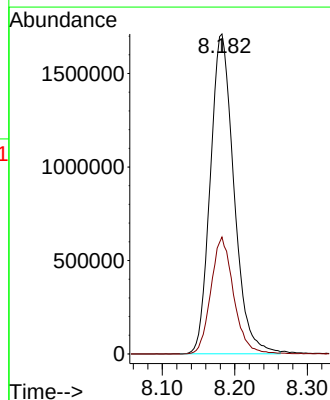
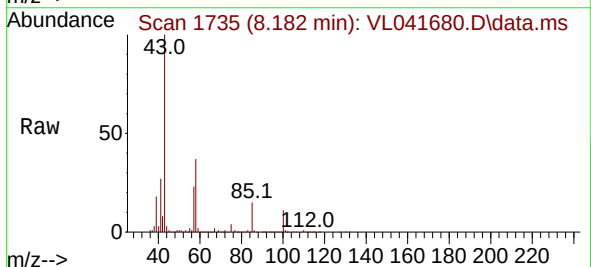
Acq: 7 Nov 2024 14:12

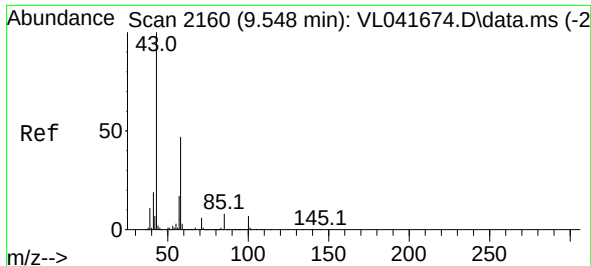
Tgt Ion: 43 Resp: 3873850

Ion Ratio Lower Upper

43 100

58 35.3 27.7 41.5

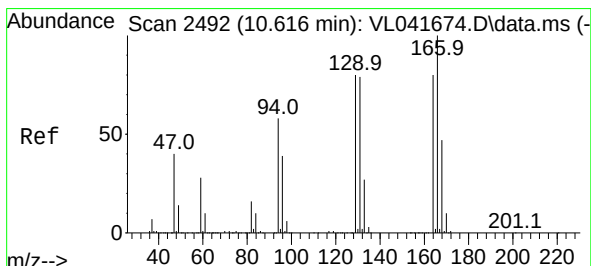
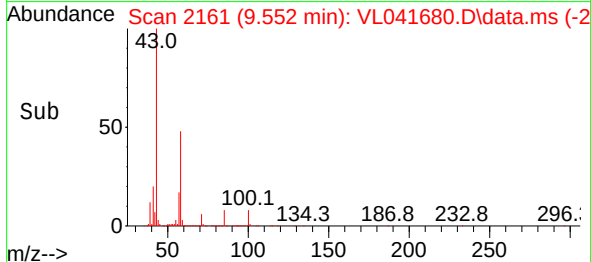
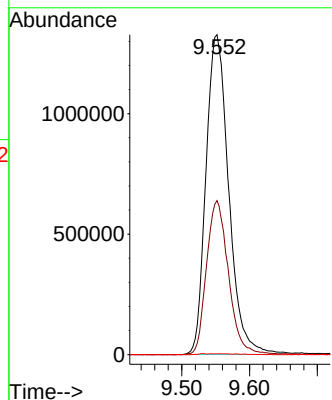
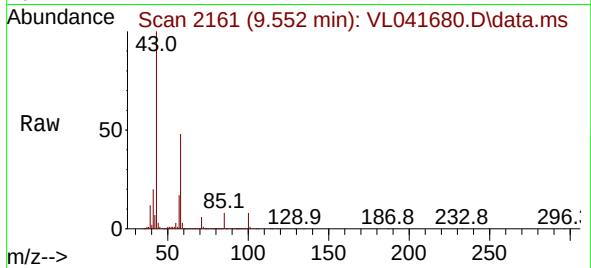




#51  
2-Hexanone  
Concen: 17.512 ppbv  
RT: 9.552 min Scan# 2161  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

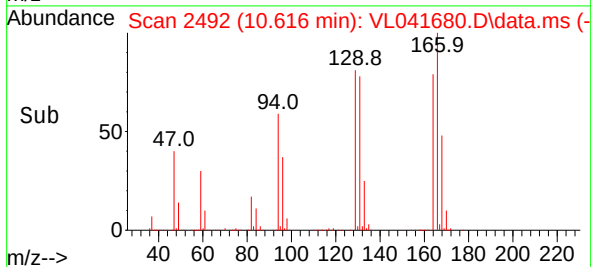
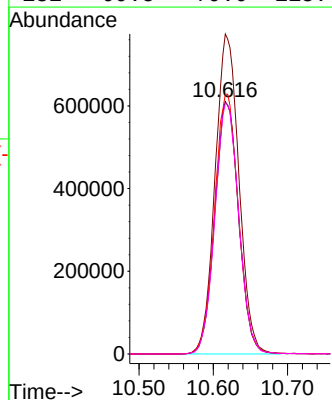
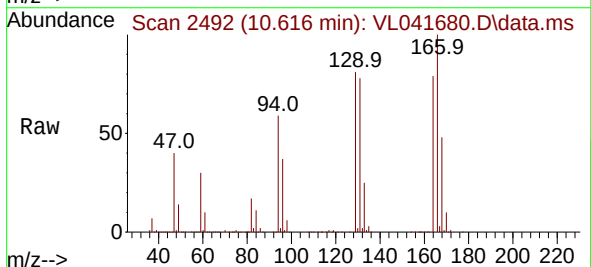
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

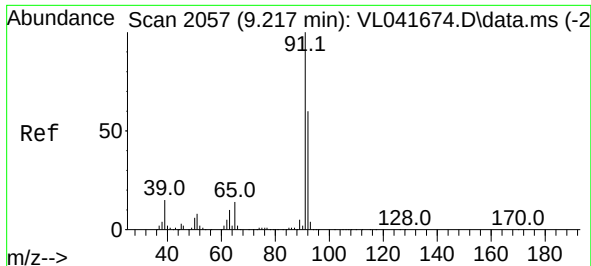
Tgt Ion: 43 Resp: 3096656  
Ion Ratio Lower Upper  
43 100  
58 46.8 37.0 55.6  
98 0.5 0.6 0.8#



#52  
Tetrachloroethene  
Concen: 16.900 ppbv  
RT: 10.616 min Scan# 2492  
Delta R.T. 0.000 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 164 Resp: 1362327  
Ion Ratio Lower Upper  
164 100  
166 126.8 100.2 150.4  
129 102.9 79.7 119.5  
131 99.5 79.0 118.4





#53

Toluene

Concen: 16.909 ppbv

RT: 9.224 min Scan# 2057

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

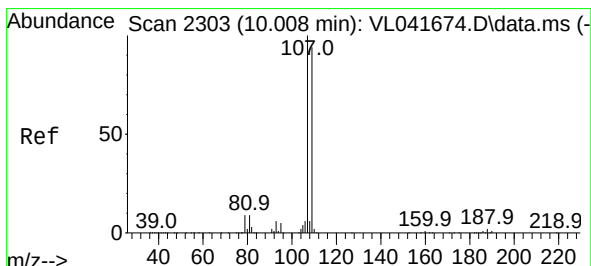
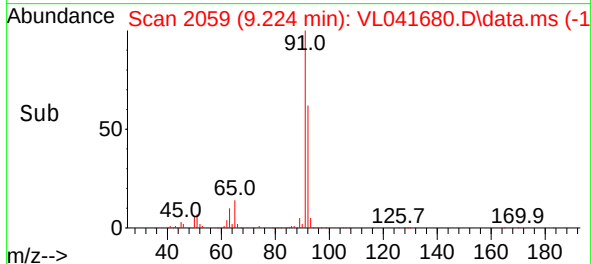
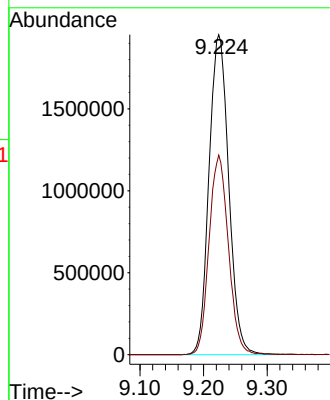
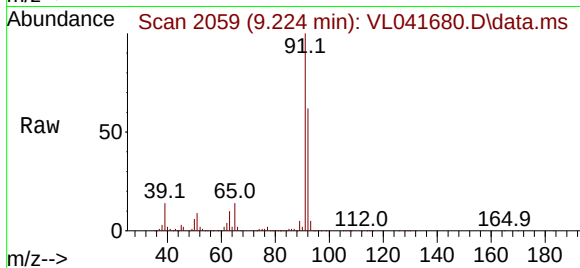
VSTDICC015

Tgt Ion: 91 Resp: 4192947

Ion Ratio Lower Upper

91 100

92 61.3 49.0 73.4



#54

1,2-Dibromoethane

Concen: 17.451 ppbv

RT: 10.012 min Scan# 2304

Delta R.T. 0.003 min

Lab File: VL041680.D

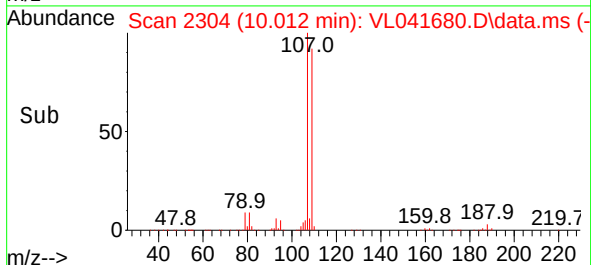
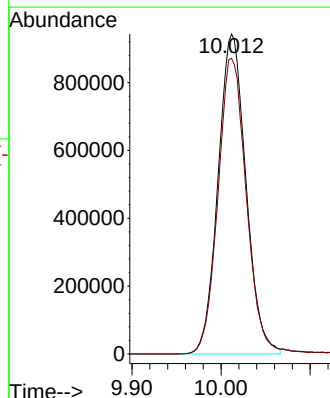
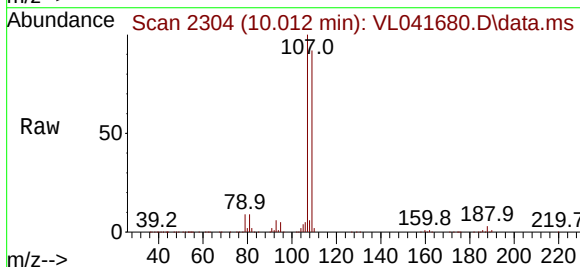
Acq: 7 Nov 2024 14:12

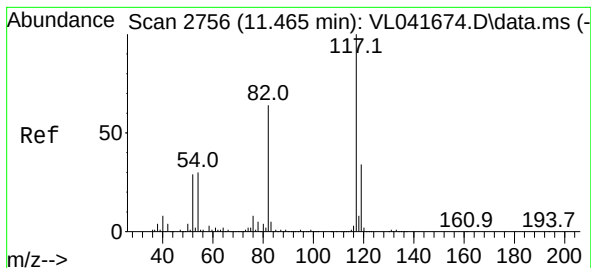
Tgt Ion:107 Resp: 2047188

Ion Ratio Lower Upper

107 100

109 92.4 74.9 112.3

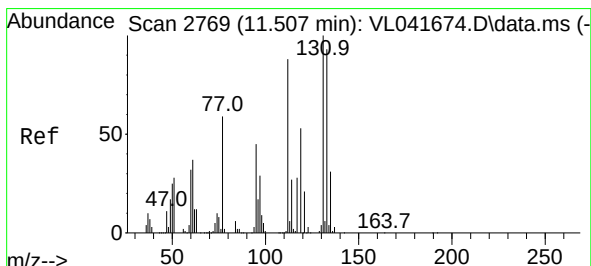
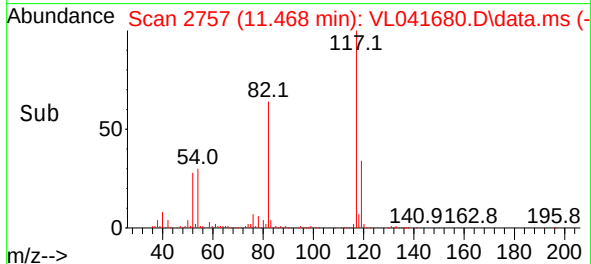
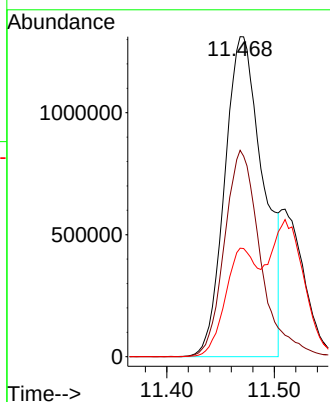
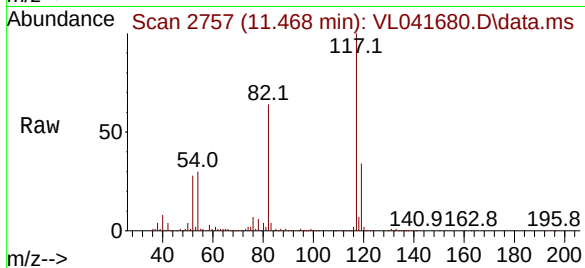




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.468 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

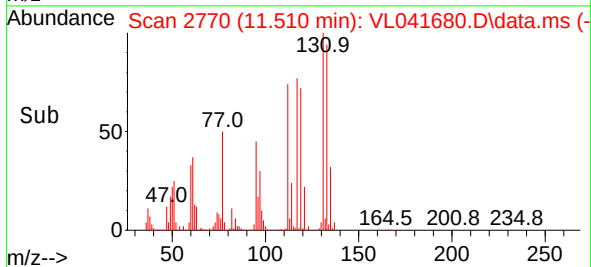
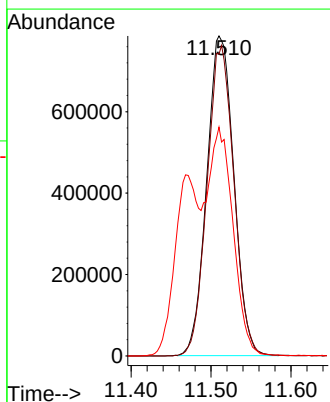
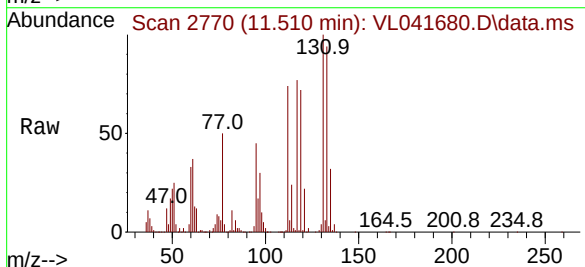
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

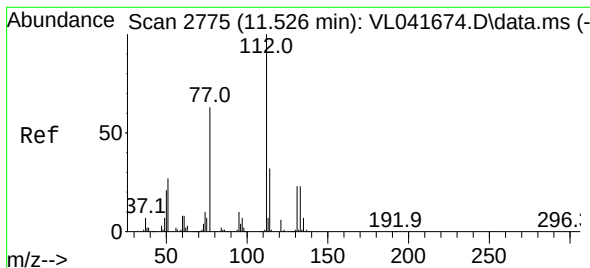
Tgt Ion:117 Resp: 3271350  
Ion Ratio Lower Upper  
117 100  
82 60.9 49.8 74.8  
119 30.7 24.2 36.4



#56  
1,1,1,2-Tetrachloroethane  
Concen: 13.588 ppbv  
RT: 11.510 min Scan# 2770  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion:131 Resp: 1851127  
Ion Ratio Lower Upper  
131 100  
133 96.3 76.5 114.7  
119 64.4 49.8 74.8

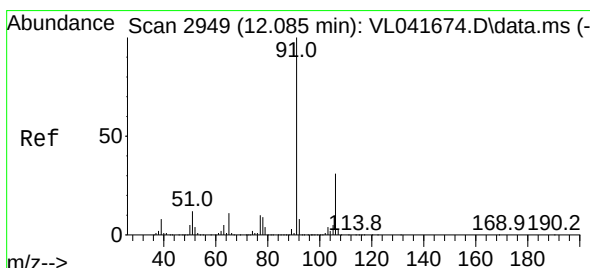
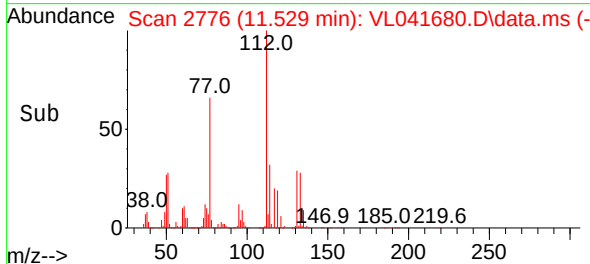
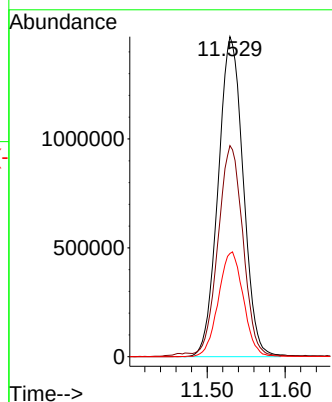
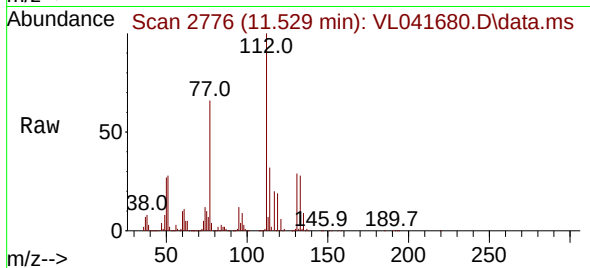




#57  
Chlorobenzene  
Concen: 13.453 ppbv  
RT: 11.529 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

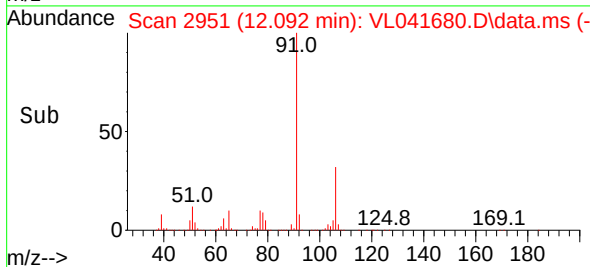
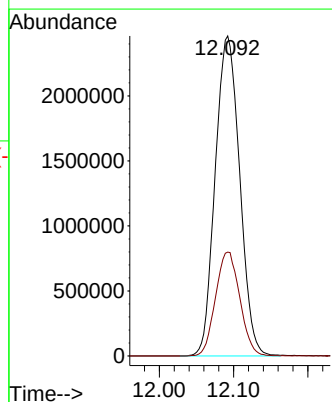
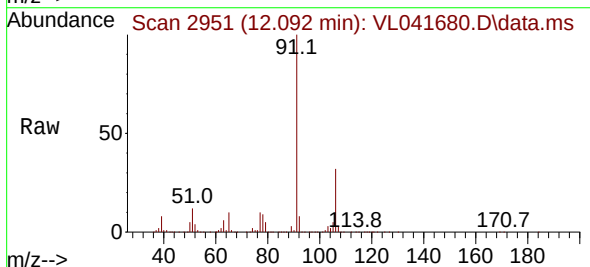
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

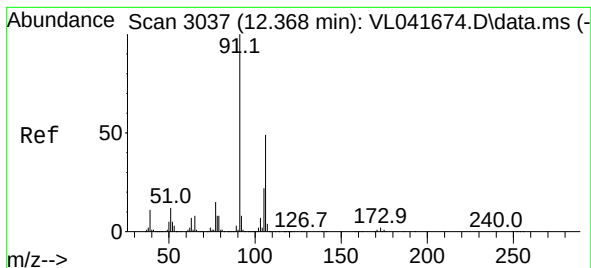
Tgt Ion:112 Resp: 3280487  
Ion Ratio Lower Upper  
112 100  
77 65.6 51.4 77.2  
114 32.2 28.4 34.8



#58  
Ethyl Benzene  
Concen: 15.550 ppbv  
RT: 12.092 min Scan# 2951  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 91 Resp: 5635176  
Ion Ratio Lower Upper  
91 100  
106 32.5 24.9 37.3





#59

m/p-Xylene

Concen: 16.857 ppbv

RT: 12.372 min Scan# 3037

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_1

ClientSampleId :

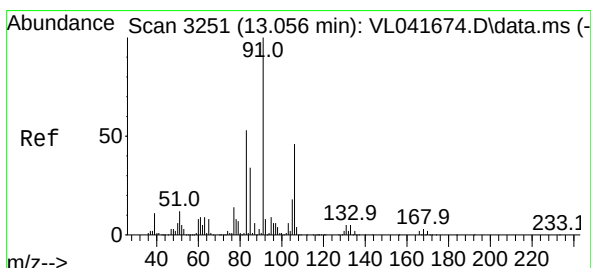
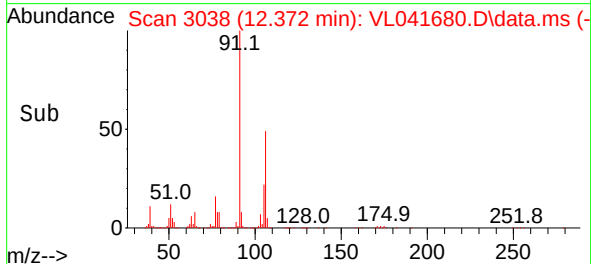
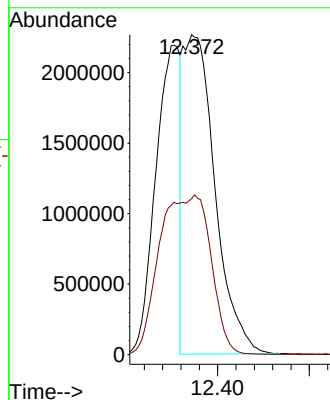
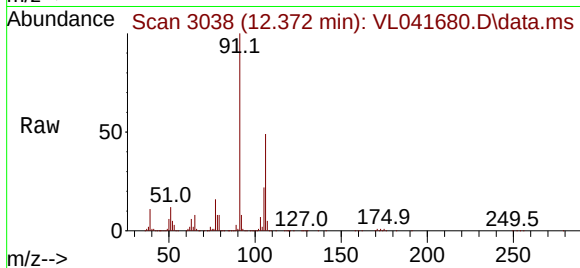
VSTDIC015

Tgt Ion: 91 Resp: 5464666

Ion Ratio Lower Upper

91 100

106 80.8 36.9 55.3#



#60

o-Xylene

Concen: 14.859 ppbv

RT: 13.063 min Scan# 3253

Delta R.T. 0.007 min

Lab File: VL041680.D

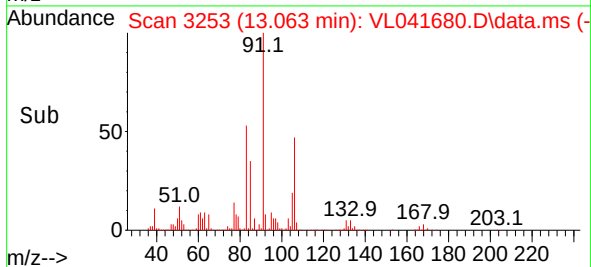
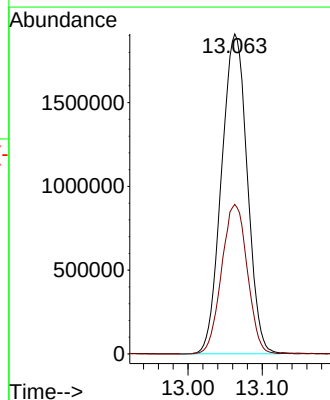
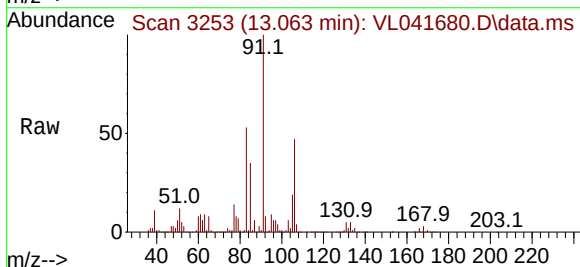
Acq: 7 Nov 2024 14:12

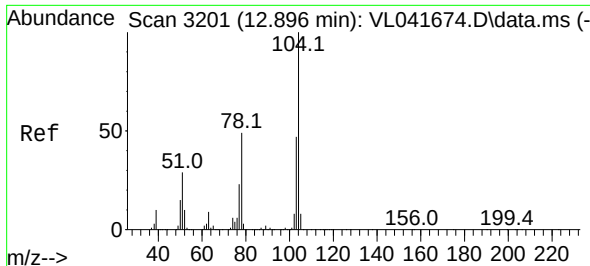
Tgt Ion: 91 Resp: 4598783

Ion Ratio Lower Upper

91 100

106 46.7 23.2 69.6

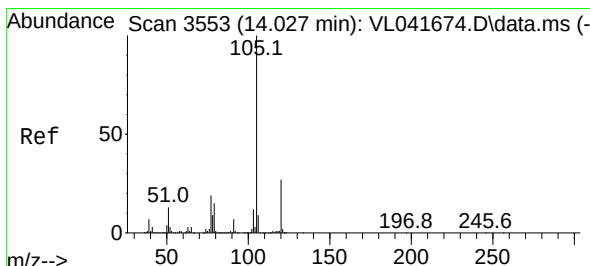
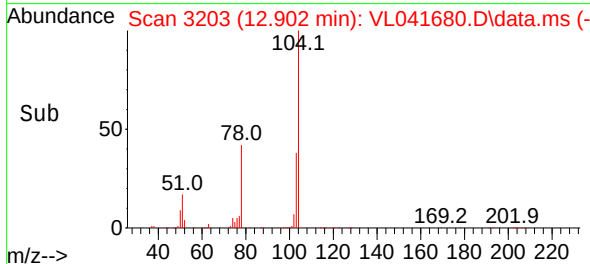
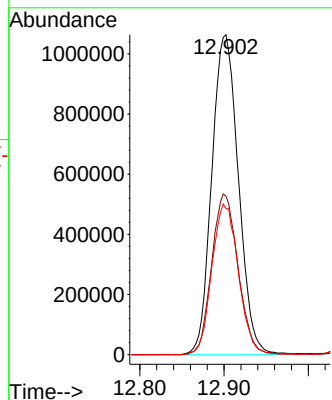
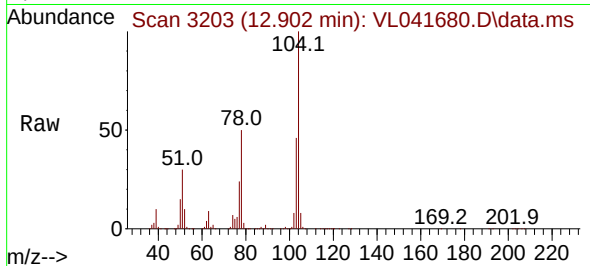




#61  
Styrene  
Concen: 18.233 ppbv  
RT: 12.902 min Scan# 31  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

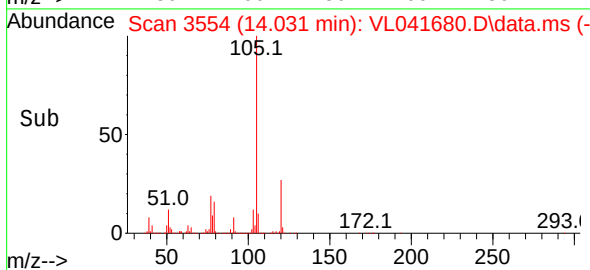
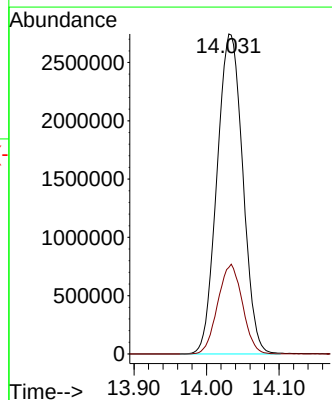
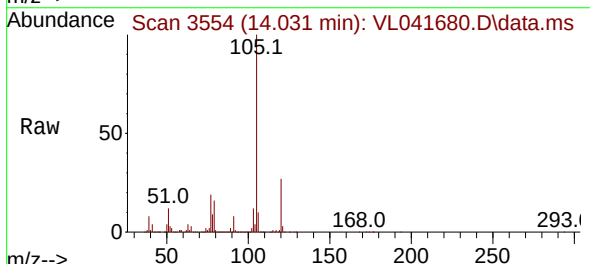
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion:104 Resp: 2329096  
Ion Ratio Lower Upper  
104 100  
78 50.0 39.8 59.8  
103 47.1 37.4 56.0

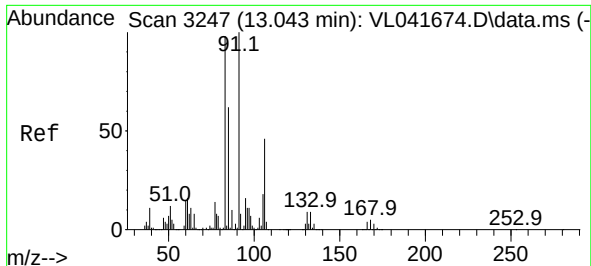


#62  
Isopropylbenzene  
Concen: 14.169 ppbv  
RT: 14.031 min Scan# 3554  
Delta R.T. 0.003 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion:105 Resp: 6769619  
Ion Ratio Lower Upper  
105 100  
120 26.9 21.1 31.7



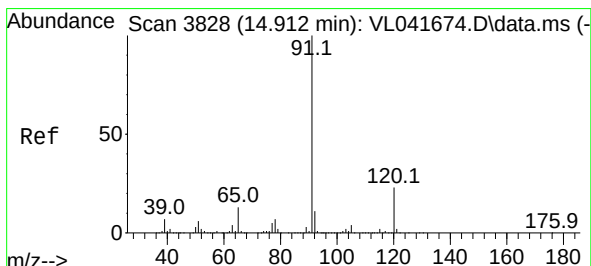
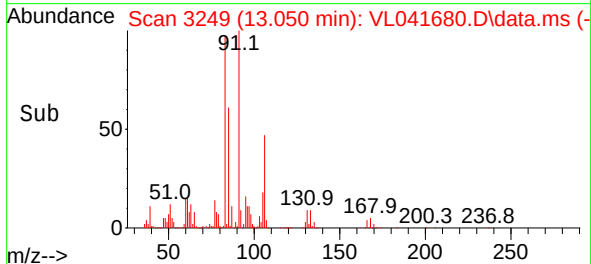
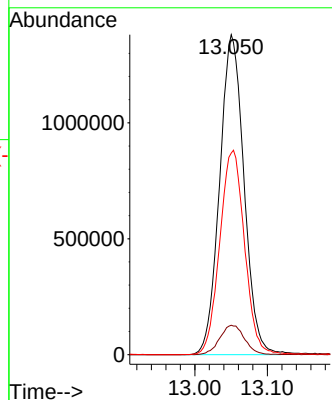
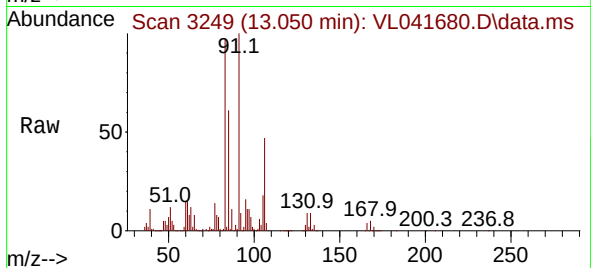




#63  
1,1,2,2-Tetrachloroethane  
Concen: 14.277 ppbv  
RT: 13.050 min Scan# 31  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

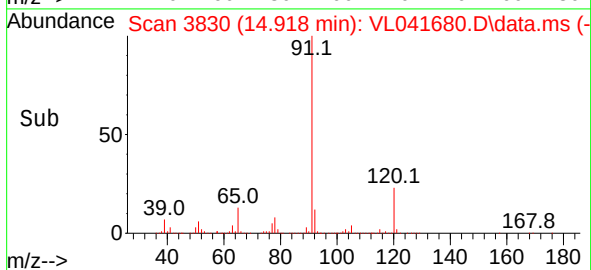
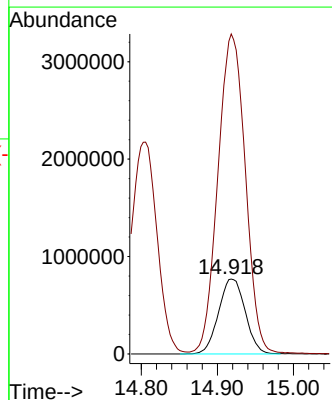
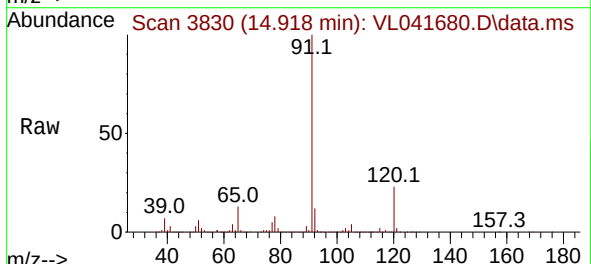
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

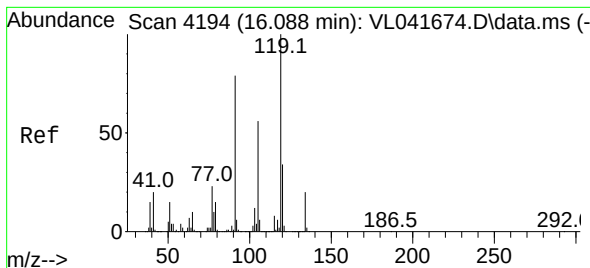
Tgt Ion: 83 Resp: 3217179  
Ion Ratio Lower Upper  
83 100  
131 9.4 4.8 14.3  
85 65.5 32.6 98.0



#64  
n-propylbenzene  
Concen: 15.010 ppbv  
RT: 14.918 min Scan# 3830  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion:120 Resp: 1875181  
Ion Ratio Lower Upper  
120 100  
91 441.1 362.4 543.6





#65

tert-Butylbenzene

Concen: 14.149 ppbv

RT: 16.095 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

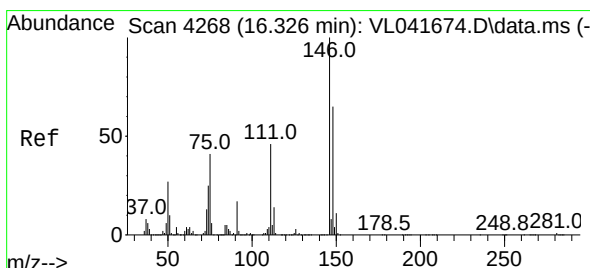
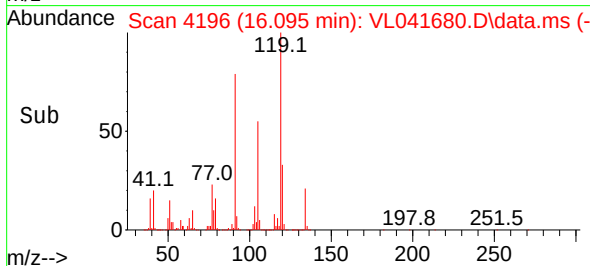
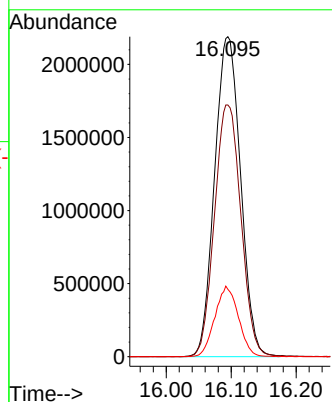
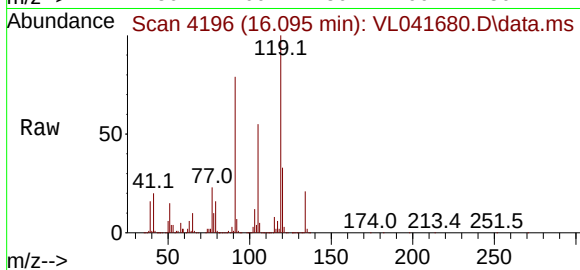
Tgt Ion:119 Resp: 6075642

Ion Ratio Lower Upper

119 100

91 80.2 64.3 96.5

134 20.0 15.8 23.8



#66

Benzyl Chloride

Concen: 19.466 ppbv

RT: 16.333 min Scan# 4270

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

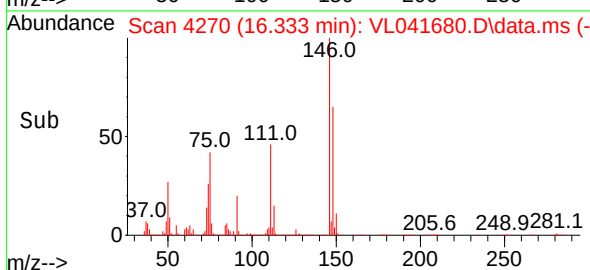
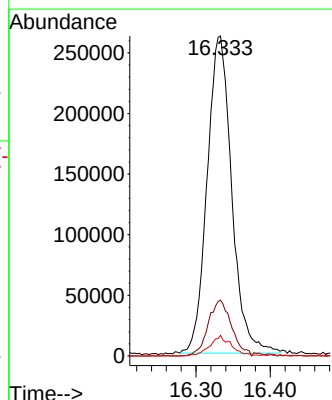
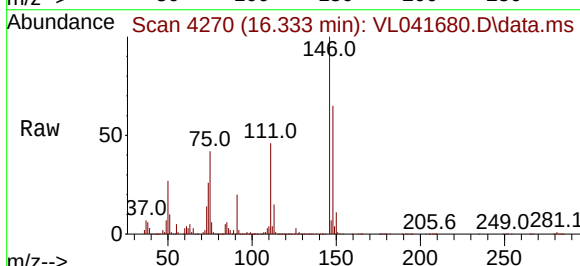
Tgt Ion: 91 Resp: 602019

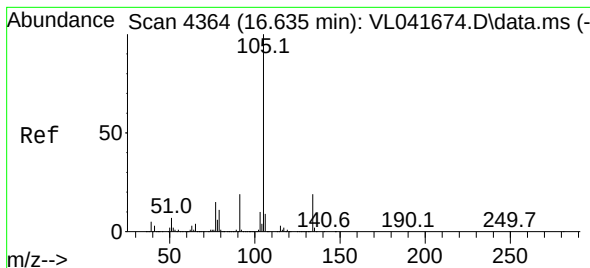
Ion Ratio Lower Upper

91 100

126 17.3 13.8 20.6

128 5.8 4.3 6.5





#67

sec-Butylbenzene

Concen: 14.008 ppbv

RT: 16.638 min Scan# 4365

Delta R.T. 0.003 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

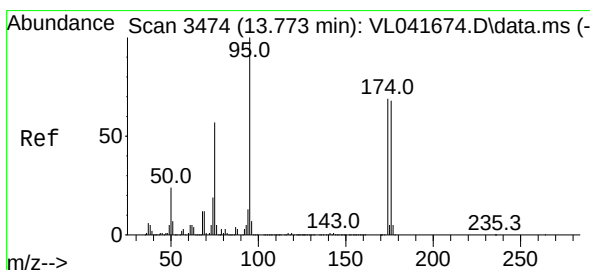
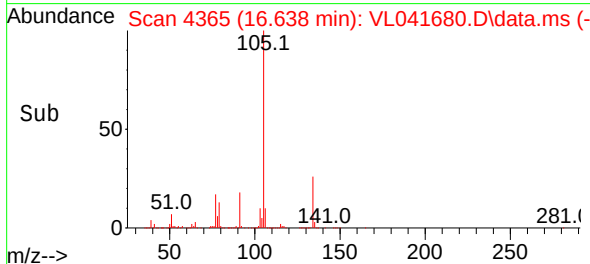
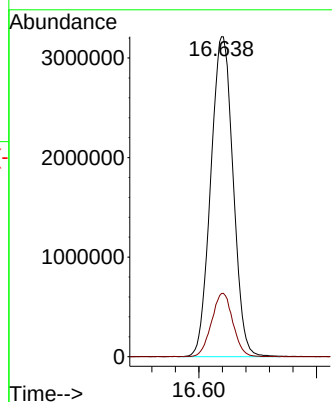
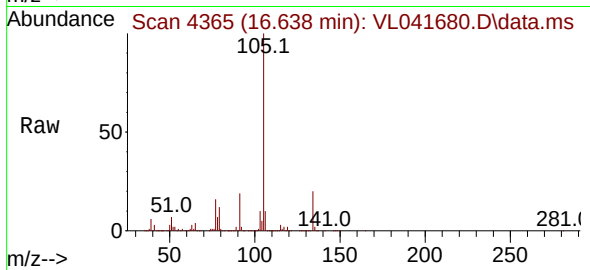
VSTDIC015

Tgt Ion:105 Resp: 8477471

Ion Ratio Lower Upper

105 100

134 18.9 14.6 22.0



#68

1-Bromo-4-Fluorobenzene

Concen: 9.746 ppbv

RT: 13.780 min Scan# 3476

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

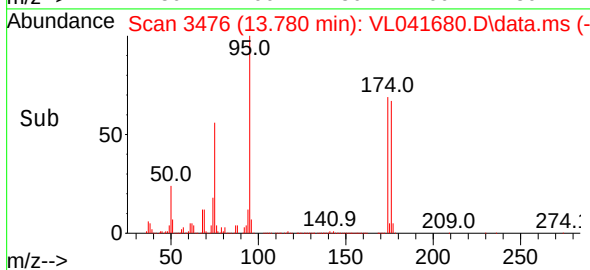
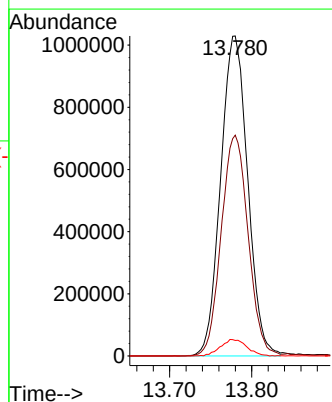
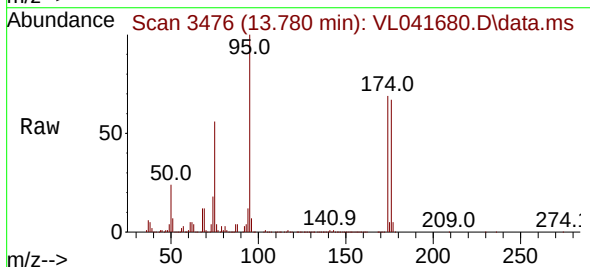
Tgt Ion: 95 Resp: 2357958

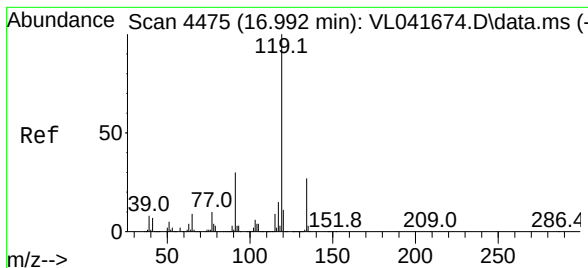
Ion Ratio Lower Upper

95 100

174 69.5 55.6 83.4

175 5.1 4.2 6.2

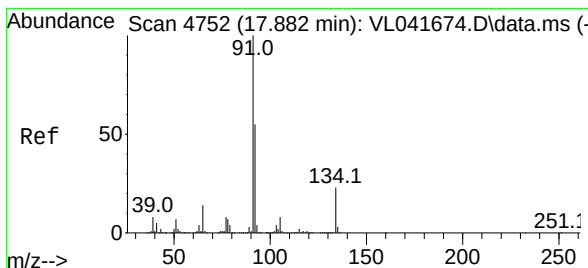
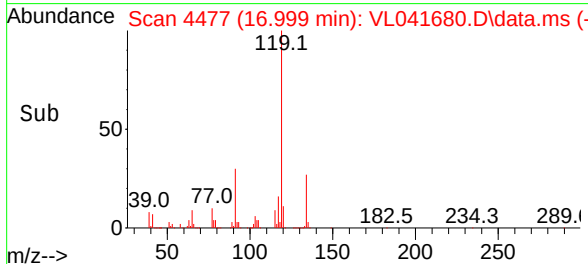
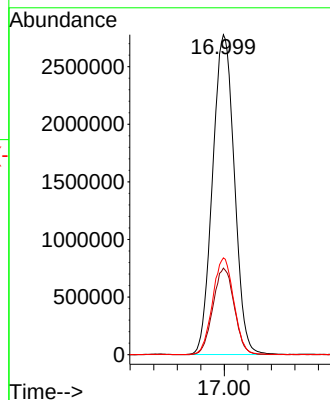
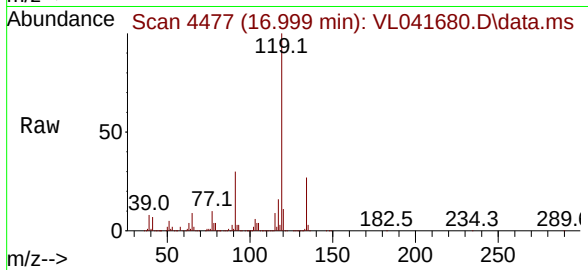




#69  
 p-Isopropyltoluene  
 Concen: 14.562 ppbv  
 RT: 16.999 min Scan# 4477  
 Delta R.T. 0.007 min  
 Lab File: VL041680.D  
 Acq: 7 Nov 2024 14:12

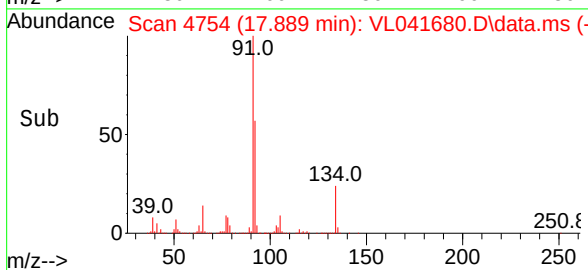
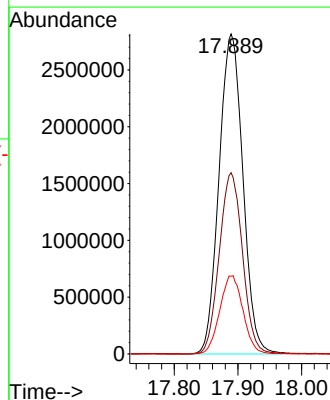
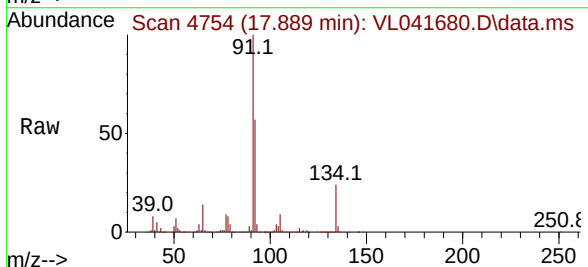
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

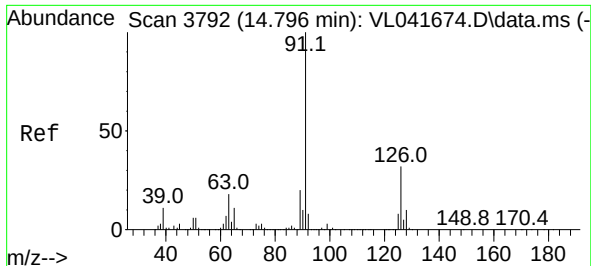
Tgt Ion:119 Resp: 7127872  
 Ion Ratio Lower Upper  
 119 100  
 134 26.5 20.8 31.2  
 91 29.4 23.2 34.8



#70  
 n-Butylbenzene  
 Concen: 14.625 ppbv  
 RT: 17.889 min Scan# 4754  
 Delta R.T. 0.007 min  
 Lab File: VL041680.D  
 Acq: 7 Nov 2024 14:12

Tgt Ion: 91 Resp: 7337569  
 Ion Ratio Lower Upper  
 91 100  
 92 55.3 43.3 64.9  
 134 24.0 18.4 27.6

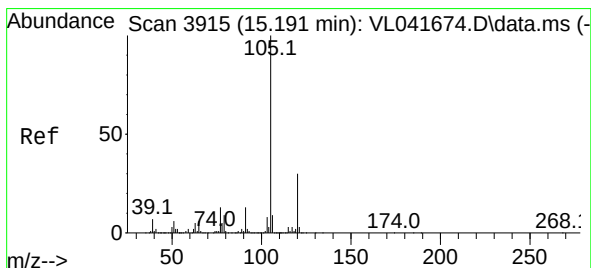
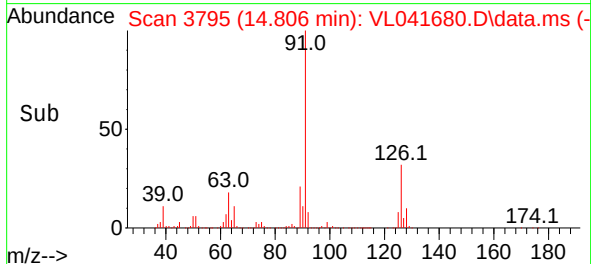
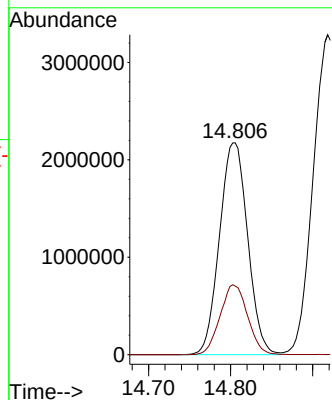
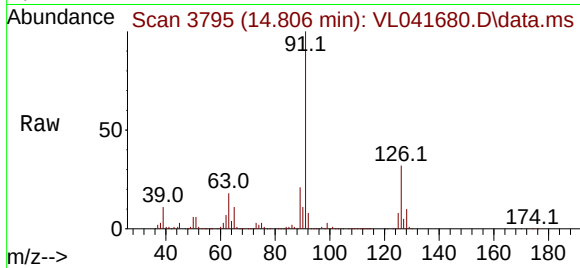




#71  
2-Chlorotoluene  
Concen: 15.038 ppbv  
RT: 14.806 min Scan# 31  
Delta R.T. 0.010 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

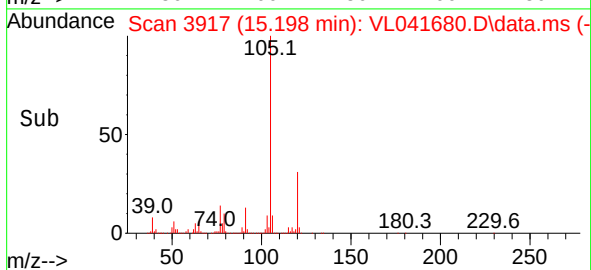
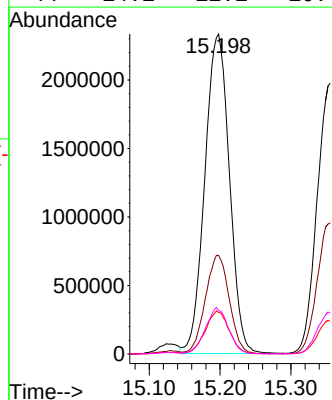
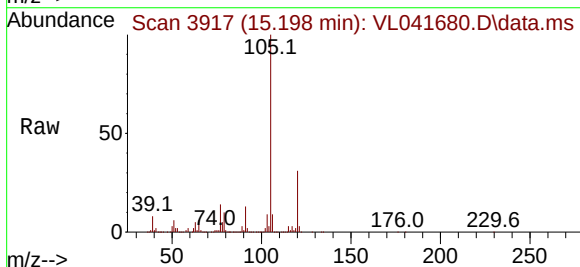
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

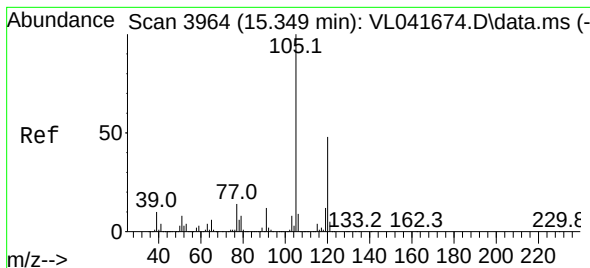
Tgt Ion: 91 Resp: 5195848  
Ion Ratio Lower Upper  
91 100  
126 32.2 12.8 51.0



#72  
4-Ethyltoluene  
Concen: 15.652 ppbv  
RT: 15.198 min Scan# 3917  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion: 105 Resp: 5625512  
Ion Ratio Lower Upper  
105 100  
120 31.0 25.0 37.4  
91 13.7 10.6 15.8  
77 14.1 11.1 16.7

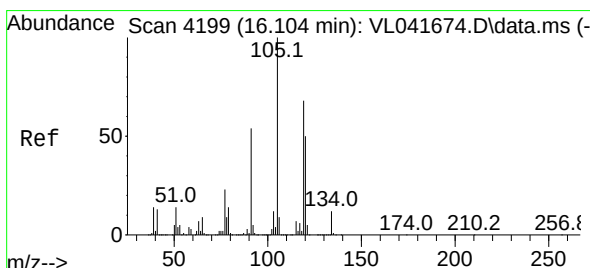
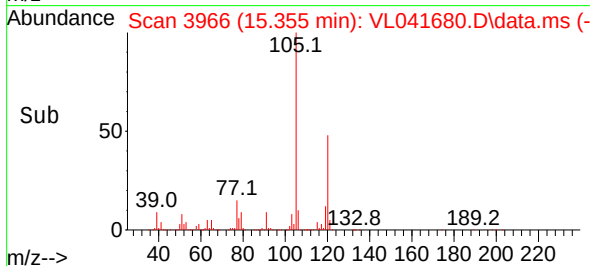
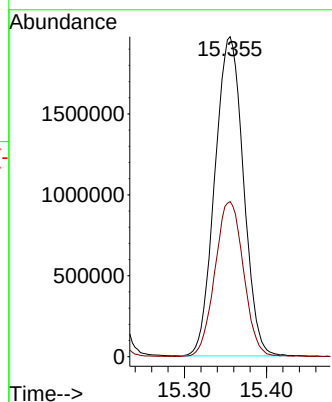
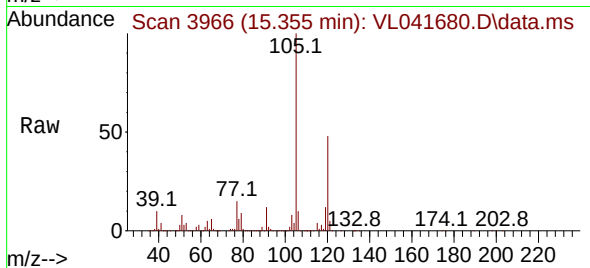




#73  
1,3,5-Trimethylbenzene  
Concen: 15.144 ppbv  
RT: 15.355 min Scan# 3966  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

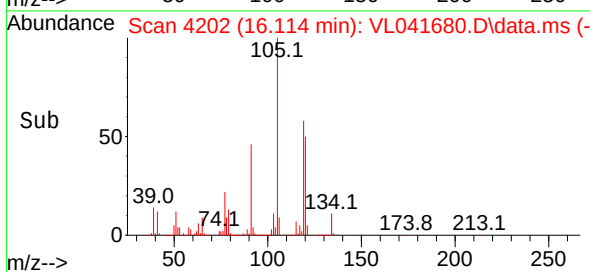
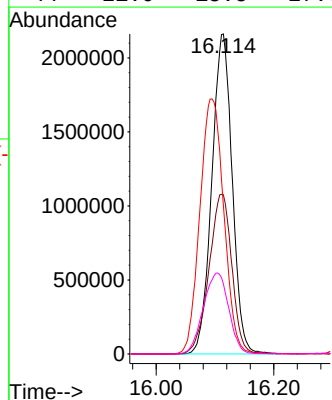
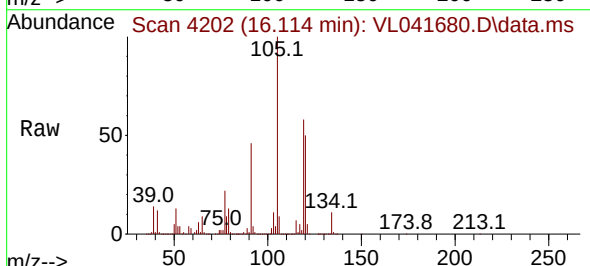
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

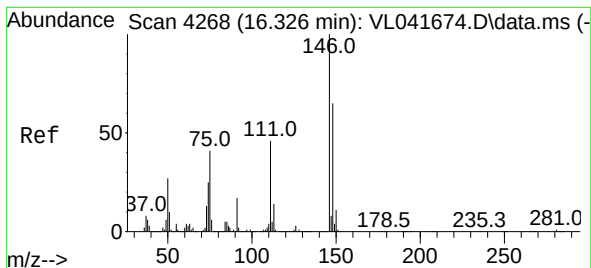
Tgt Ion:105 Resp: 4772611  
Ion Ratio Lower Upper  
105 100  
120 48.5 38.4 57.6



#74  
1,2,4-Trimethylbenzene  
Concen: 14.183 ppbv  
RT: 16.114 min Scan# 4202  
Delta R.T. 0.010 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion:105 Resp: 5199497  
Ion Ratio Lower Upper  
105 100  
120 49.7 39.8 59.8  
91 46.3 43.2 64.8  
77 21.9 18.5 27.7

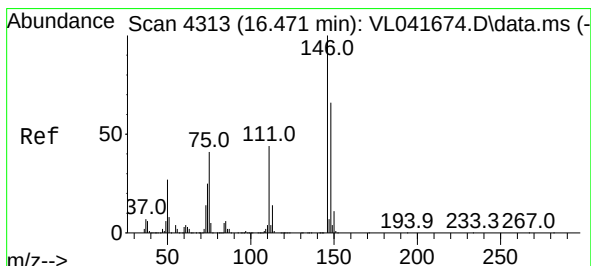
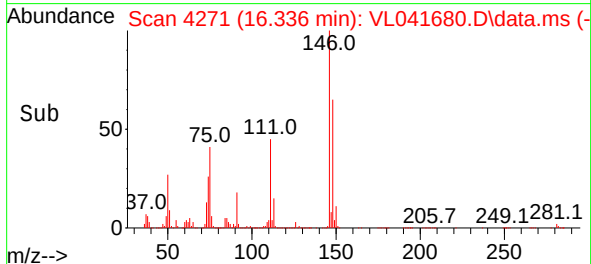
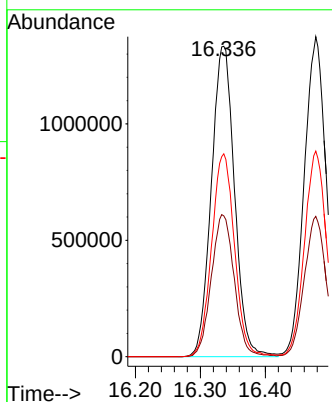
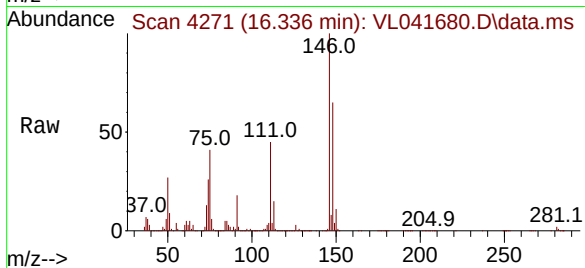




#75  
1,3-Dichlorobenzene  
Concen: 14.559 ppbv  
RT: 16.336 min Scan# 41  
Delta R.T. 0.010 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

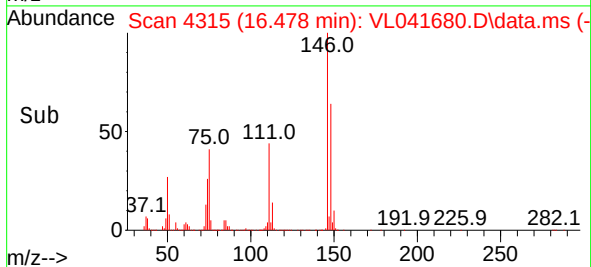
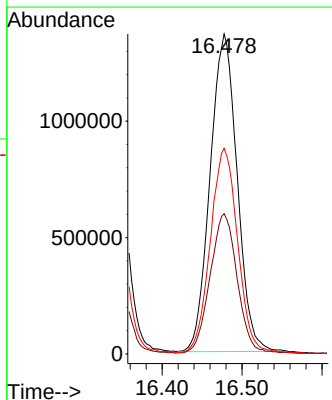
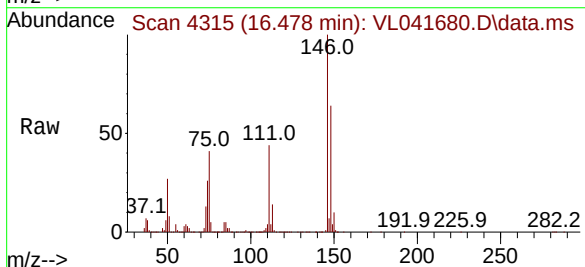
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

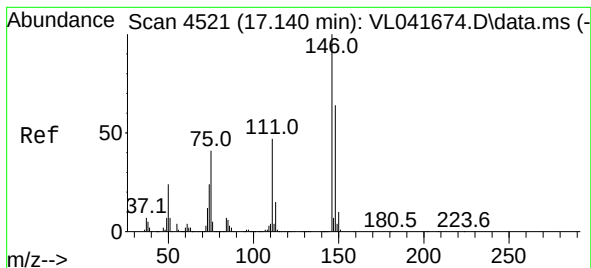
Tgt Ion:146 Resp: 3296952  
Ion Ratio Lower Upper  
146 100  
111 45.3 22.8 68.3  
148 64.7 32.4 97.0



#76  
1,4-Dichlorobenzene  
Concen: 14.402 ppbv  
RT: 16.478 min Scan# 4315  
Delta R.T. 0.007 min  
Lab File: VL041680.D  
Acq: 7 Nov 2024 14:12

Tgt Ion:146 Resp: 3204404  
Ion Ratio Lower Upper  
146 100  
111 44.5 22.1 66.3  
148 66.2 33.3 99.8





#77

1,2-Dichlorobenzene

Concen: 14.336 ppbv

RT: 17.150 min Scan# 4521

Delta R.T. 0.010 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

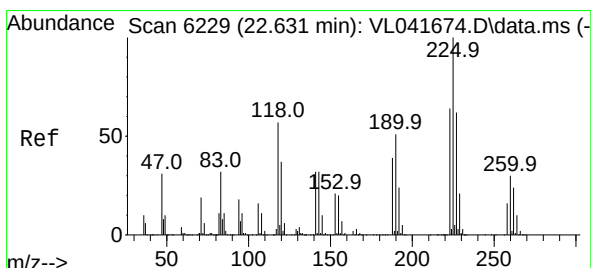
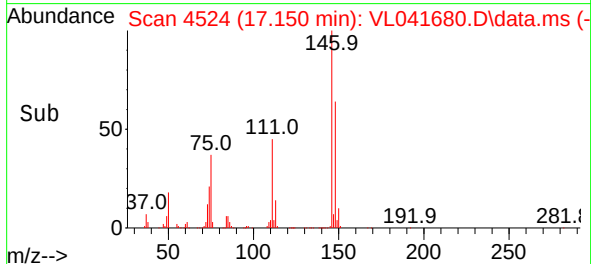
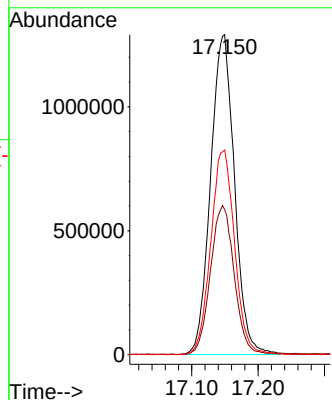
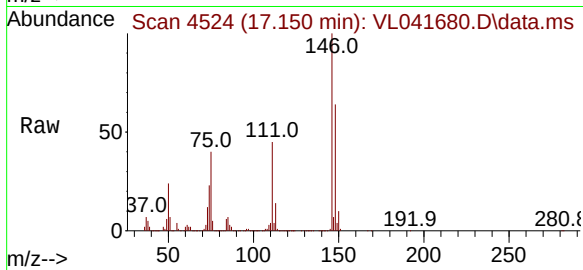
Tgt Ion:146 Resp: 3223835

Ion Ratio Lower Upper

146 100

111 46.5 23.4 70.3

148 64.0 32.1 96.5



#78

Hexachloro-1,3-Butadiene

Concen: 12.158 ppbv

RT: 22.638 min Scan# 6231

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

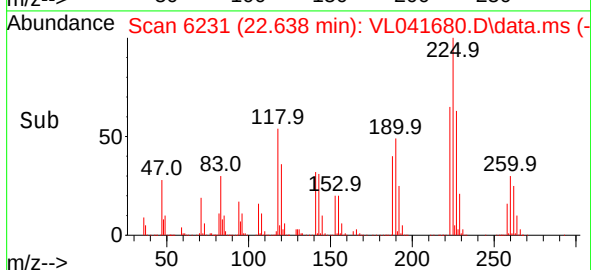
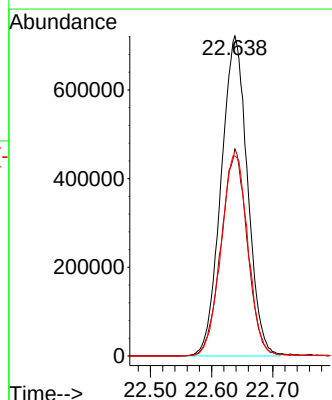
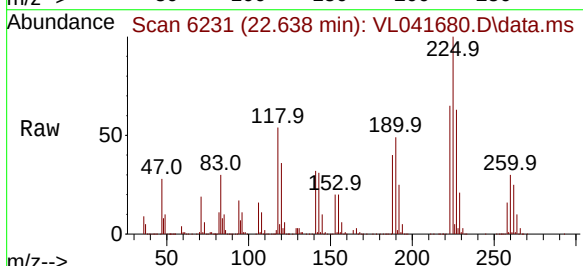
Tgt Ion:225 Resp: 2162938

Ion Ratio Lower Upper

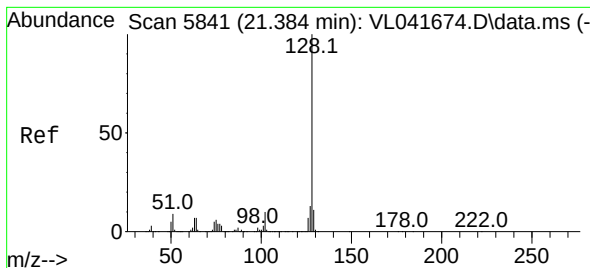
225 100

223 64.3 51.1 76.7

227 64.5 51.3 76.9







#79

Naphthalene

Concen: 19.355 ppbv

RT: 21.391 min Scan# 5843

Delta R.T. 0.007 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

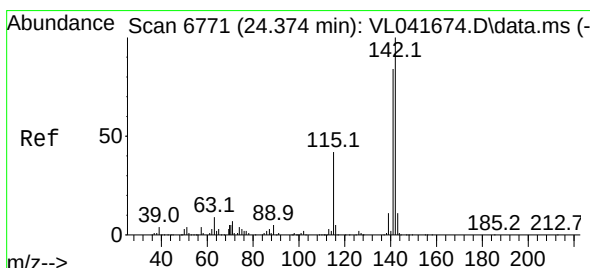
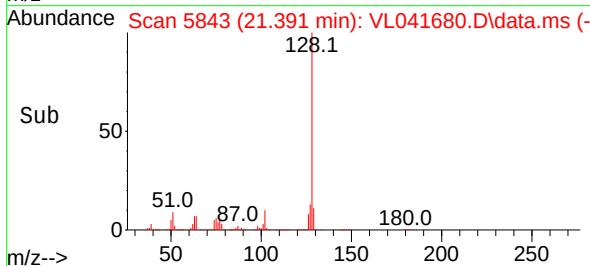
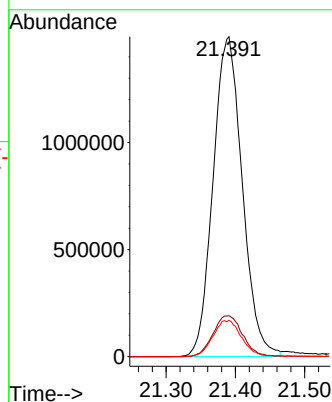
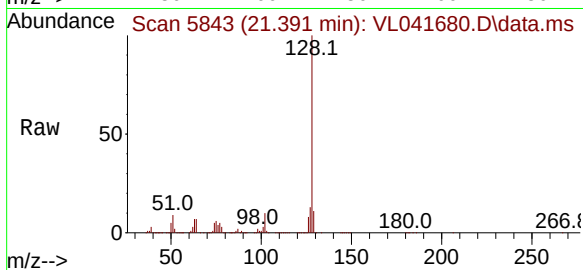
Tgt Ion:128 Resp: 4363777

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

129 11.4 8.7 13.1



#80

Naphthalene,2-methyl-

Concen: 24.444 ppbv

RT: 24.374 min Scan# 6771

Delta R.T. 0.000 min

Lab File: VL041680.D

Acq: 7 Nov 2024 14:12

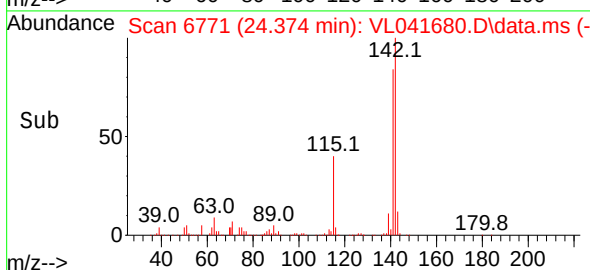
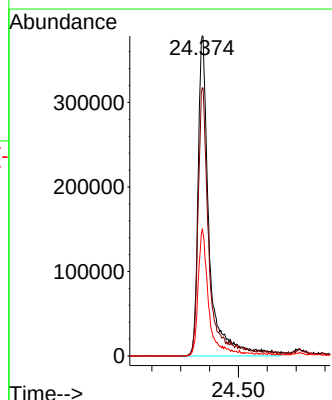
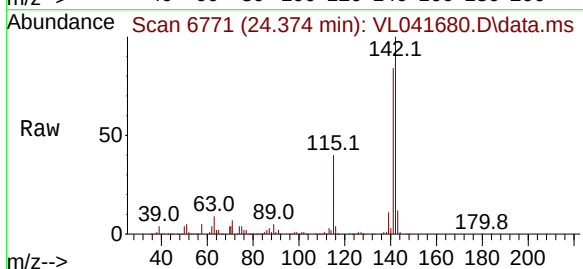
Tgt Ion:142 Resp: 1022470

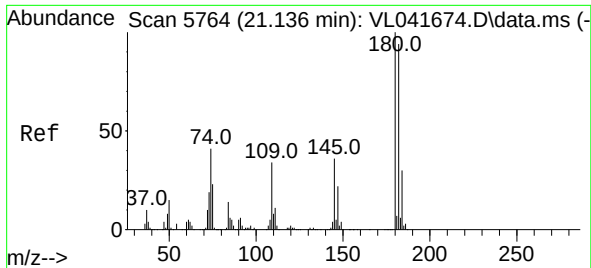
Ion Ratio Lower Upper

142 100

141 83.8 68.1 102.1

115 37.4 33.1 49.7





#81

1,2,4-Trichlorobenzene

Concen: 15.962 ppbv

RT: 21.146 min Scan# 5

Delta R.T. 0.010 min

Lab File: VL041680.D

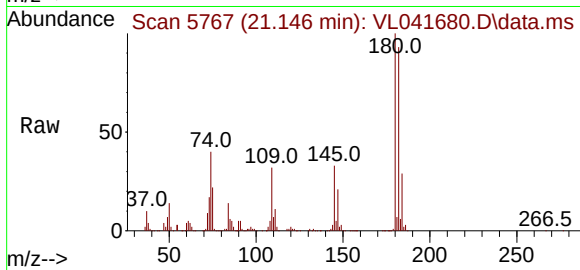
Acq: 7 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015



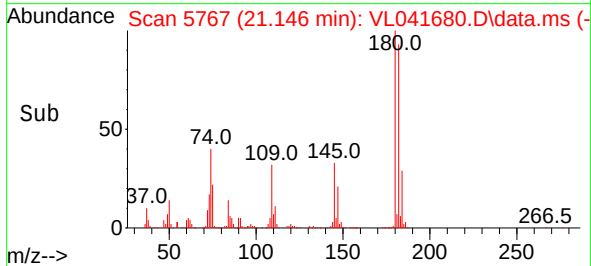
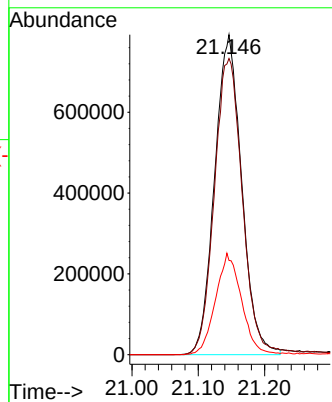
Tgt Ion:180 Resp: 2238509

Ion Ratio Lower Upper

180 100

182 98.0 78.2 117.2

184 30.9 25.0 37.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041681.D  
 Acq On : 7 Nov 2024 14:51  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL110724

Quant Time: Nov 08 01:08:38 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 01:01:00 2024  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.192  | 49   | 1219218  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.655  | 114  | 3384840  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.468 | 117  | 3891746  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 13.780 | 95    | 2384630  | 8.316    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 83.200% |

|                               |       |     |         |        |        |     |
|-------------------------------|-------|-----|---------|--------|--------|-----|
| Target Compounds              |       |     |         | Qvalue |        |     |
| 2) Dichlorodifluoromethane    | 2.732 | 85  | 1794893 | 8.145  | ppbv   | 100 |
| 3) Chlorodifluoromethane      | 2.677 | 51  | 1429744 | 9.000  | ppbv   | 99  |
| 4) Chloromethane              | 2.816 | 50  | 787537  | 9.359  | ppbv   | 97  |
| 5) Vinyl Chloride             | 2.922 | 62  | 774506  | 10.232 | ppbv   | 98  |
| 6) Bromomethane               | 3.121 | 94  | 379427  | 9.449  | ppbv   | 98  |
| 7) Chloroethane               | 3.198 | 64  | 265929  | 9.626  | ppbv   | 99  |
| 8) Dichlorotetrafluoroethane  | 2.861 | 85  | 1752691 | 8.910  | ppbv   | 100 |
| 9) Propene                    | 2.697 | 41  | 684685  | 9.892  | ppbv   | 100 |
| 10) Heptane                   | 7.581 | 43  | 1623259 | 10.465 | ppbv   | 100 |
| 11) Trichlorofluoromethane    | 3.562 | 101 | 1715400 | 8.937  | ppbv   | 97  |
| 12) 1,1,2-Trichlorotrifluo... | 4.066 | 101 | 1286962 | 9.225  | ppbv   | 100 |
| 13) Ethanol                   | 3.253 | 45  | 9194    | 2.169  | ppbv # | 40  |
| 14) Bromoethene               | 3.369 | 108 | 547085  | 9.755  | ppbv   | 97  |
| 15) Acetone                   | 3.468 | 43  | 1307631 | 8.715  | ppbv   | 98  |
| 16) 1,3-Butadiene             | 2.986 | 39  | 762546  | 10.072 | ppbv   | 98  |
| 17) tert-Butyl alcohol        | 3.877 | 59  | 1421835 | 10.798 | ppbv   | 99  |
| 18) 1,1-Dichloroethene        | 3.880 | 96  | 589373  | 9.632  | ppbv   | 95  |
| 19) Isopropyl Alcohol         | 3.578 | 45  | 762103  | 10.626 | ppbv # | 97  |
| 20) Methylene Chloride        | 3.934 | 84  | 490767  | 8.888  | ppbv   | 98  |
| 21) Allyl Chloride            | 3.996 | 41  | 952403  | 10.272 | ppbv   | 99  |
| 22) trans-1,2-Dichloroethene  | 4.446 | 96  | 602606  | 9.905  | ppbv   | 100 |
| 23) Vinyl Acetate             | 4.629 | 43  | 659846  | 9.976  | ppbv # | 95  |
| 24) 1,1-Dichloroethane        | 4.565 | 63  | 1246280 | 9.177  | ppbv   | 98  |
| 25) Ethyl Acetate             | 5.205 | 43  | 3059483 | 9.850  | ppbv   | 100 |
| 26) Hexane                    | 5.214 | 57  | 1221365 | 10.235 | ppbv   | 97  |
| 27) Carbon Disulfide          | 4.124 | 76  | 1427544 | 10.648 | ppbv   | 98  |
| 28) Methyl tert-Butyl Ether   | 4.587 | 73  | 764924  | 9.954  | ppbv   | 99  |
| 29) Chloroform                | 5.275 | 83  | 1805559 | 9.167  | ppbv   | 100 |
| 30) Cyclohexane               | 6.603 | 84  | 1036810 | 10.204 | ppbv   | 99  |
| 31) cis-1,2-Dichloroethene    | 5.079 | 61  | 1190854 | 10.374 | ppbv   | 100 |
| 32) 1,1,1-Trichloroethane     | 6.002 | 97  | 1797279 | 10.002 | ppbv   | 100 |
| 34) 2-Butanone                | 4.787 | 43  | 1751089 | 10.390 | ppbv   | 100 |
| 35) Carbon Tetrachloride      | 6.494 | 117 | 1829420 | 10.244 | ppbv   | 100 |
| 36) Benzene                   | 6.368 | 78  | 2560057 | 10.208 | ppbv   | 99  |
| 37) 1,2-Dichloroethane        | 5.809 | 62  | 1376089 | 9.726  | ppbv   | 99  |
| 38) Trichloroethene           | 7.291 | 130 | 1018788 | 10.577 | ppbv   | 99  |
| 39) 1,2-Dichloropropane       | 7.073 | 63  | 983477  | 9.923  | ppbv   | 96  |
| 40) 1,4-Dioxane               | 7.288 | 88  | 376201  | 10.579 | ppbv # | 1   |
| 41) Tetrahydrofuran           | 5.555 | 42  | 1065202 | 11.067 | ppbv   | 99  |
| 42) Bromodichloromethane      | 7.253 | 83  | 1966589 | 10.002 | ppbv   | 100 |
| 43) Methyl Methacrylate       | 7.475 | 69  | 1010315 | 11.473 | ppbv   | 99  |
| 44) 2,2,4-Trimethylpentane    | 7.327 | 57  | 4253439 | 10.012 | ppbv   | 99  |
| 45) t-1,3-Dichloropropene     | 8.712 | 75  | 979763  | 12.176 | ppbv   | 98  |

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 Data File : VL041681.D  
 Acq On : 7 Nov 2024 14:51  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

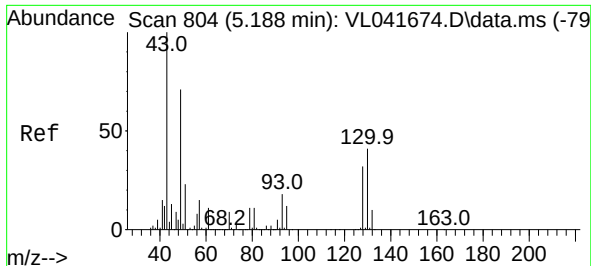
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 MSVOA\_L  
 ClientSampleId :  
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Quant Time: Nov 08 01:08:38 2024  
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 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 01:01:00 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.143  | 75   | 1335370  | 11.555 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 8.899  | 97   | 1027960  | 9.583  | ppbv   | 99       |
| 48) Dibromochloromethane      | 9.712  | 129  | 1697504  | 10.410 | ppbv   | 100      |
| 49) Bromoform                 | 12.410 | 173  | 1467565  | 10.519 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.182  | 43   | 2720056  | 10.513 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.552  | 43   | 2131991  | 11.315 | ppbv # | 98       |
| 52) Tetrachloroethene         | 10.613 | 164  | 931693   | 10.901 | ppbv   | 97       |
| 53) Toluene                   | 9.220  | 91   | 2900278  | 10.997 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.011 | 107  | 1383939  | 11.043 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 11.510 | 131  | 1248422  | 7.778  | ppbv   | 99       |
| 57) Chlorobenzene             | 11.529 | 112  | 2237120  | 7.772  | ppbv   | 100      |
| 58) Ethyl Benzene             | 12.092 | 91   | 3855683  | 9.037  | ppbv   | 99       |
| 59) m/p-Xylene                | 12.375 | 91   | 4090254  | 10.705 | ppbv # | 60       |
| 60) o-Xylene                  | 13.060 | 91   | 3103973  | 8.520  | ppbv   | 100      |
| 61) Styrene                   | 12.896 | 104  | 1535856  | 10.214 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.031 | 105  | 4605291  | 8.185  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.050 | 83   | 2141628  | 7.991  | ppbv   | 100      |
| 64) n-propylbenzene           | 14.918 | 120  | 1242370  | 8.434  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 16.092 | 119  | 4128160  | 8.163  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.326 | 91   | 333479   | 8.572  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 16.638 | 105  | 5771671  | 8.097  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 16.998 | 119  | 4841188  | 8.401  | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.889 | 91   | 4961330  | 8.415  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 14.799 | 91   | 3477879  | 8.551  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.194 | 105  | 3765544  | 8.890  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.352 | 105  | 3164645  | 8.514  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.111 | 105  | 3509579  | 8.129  | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 16.333 | 146  | 2153016  | 8.052  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.474 | 146  | 2087766  | 8.093  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.146 | 146  | 2076942  | 7.841  | ppbv # | 70       |
| 78) Hexachloro-1,3-Butadiene  | 22.635 | 225  | 1380777  | 6.591  | ppbv   | 100      |
| 79) Naphthalene               | 21.384 | 128  | 2753473  | 10.332 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.374 | 142  | 582436   | 10.026 | ppbv   | 93       |
| 81) 1,2,4-Trichlorobenzene    | 21.143 | 180  | 1413820  | 8.436  | ppbv   | 100      |

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

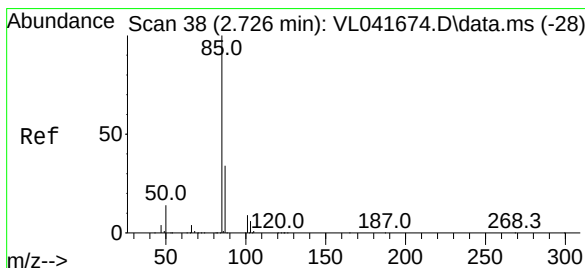
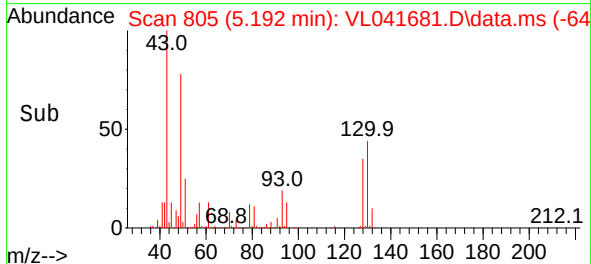
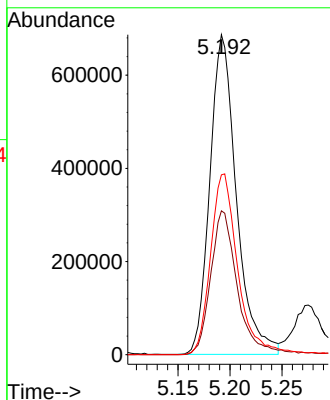
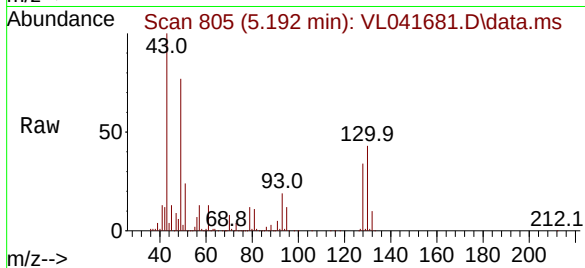




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 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.192 min Scan# 80  
 Delta R.T. 0.004 min  
 Lab File: VL041681.D  
 Acq: 7 Nov 2024 14:51

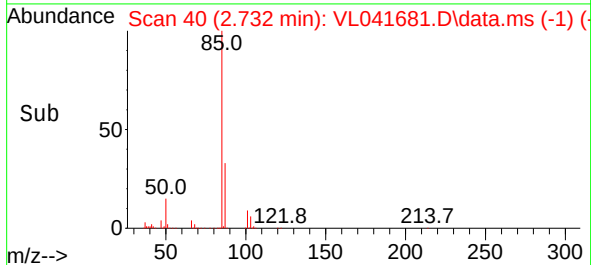
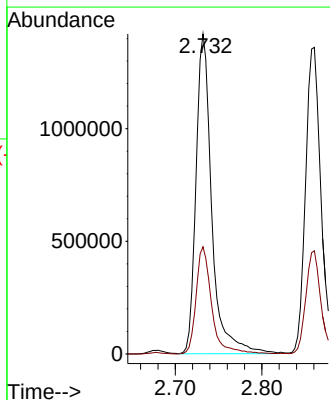
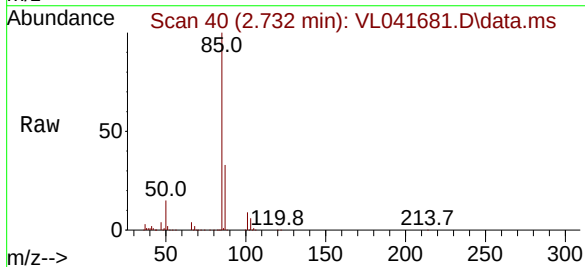
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 MSVOA\_1  
 ClientSampleId :  
 ICVVL110724

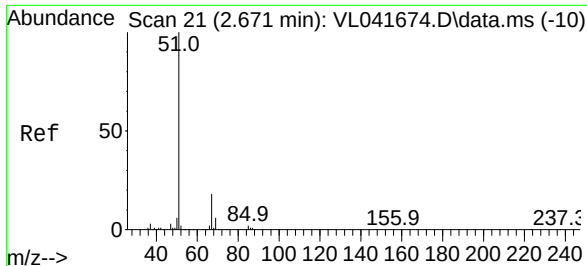
Tgt Ion: 49 Resp: 1219218  
 Ion Ratio Lower Upper  
 49 100  
 128 46.0 23.8 71.2  
 130 59.2 30.1 90.5



#2  
 Dichlorodifluoromethane  
 Concen: 8.145 ppbv  
 RT: 2.732 min Scan# 40  
 Delta R.T. 0.006 min  
 Lab File: VL041681.D  
 Acq: 7 Nov 2024 14:51

Tgt Ion: 85 Resp: 1794893  
 Ion Ratio Lower Upper  
 85 100  
 87 33.5 26.8 40.2

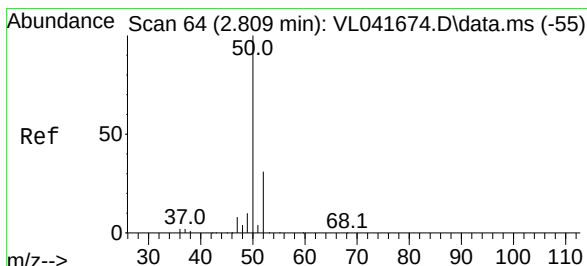
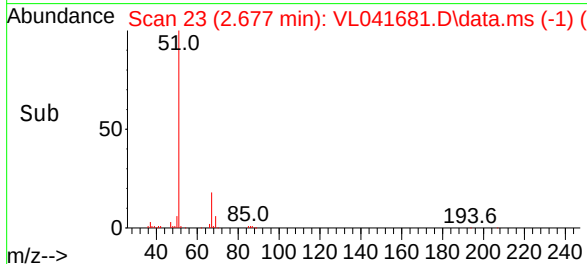
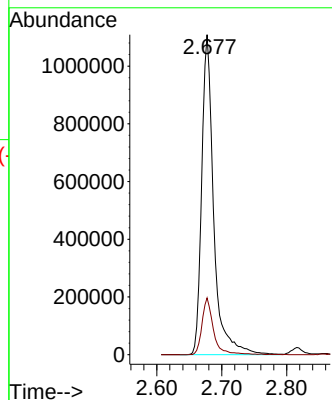
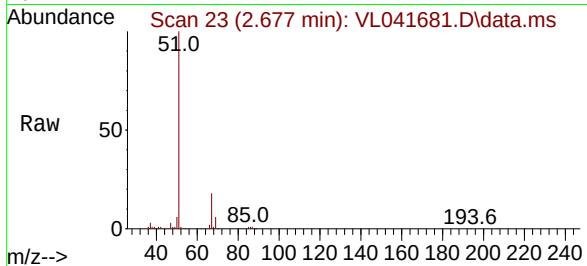




#3  
Chlorodifluoromethane  
Concen: 9.000 ppbv  
RT: 2.677 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

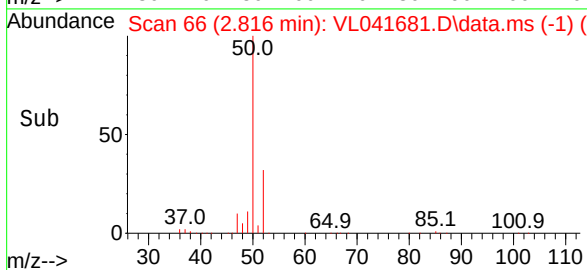
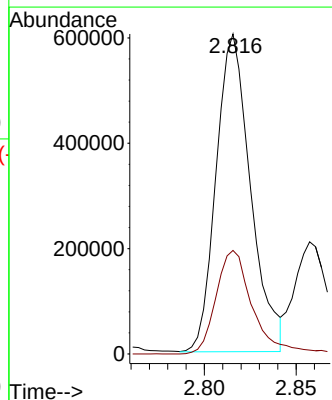
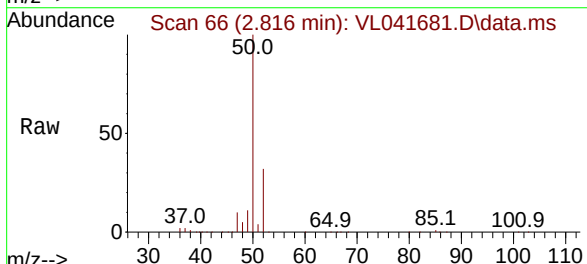
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

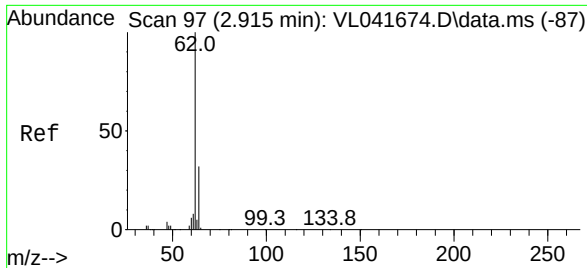
Tgt Ion: 51 Resp: 1429744  
Ion Ratio Lower Upper  
51 100  
67 17.1 13.9 20.9



#4  
Chloromethane  
Concen: 9.359 ppbv  
RT: 2.816 min Scan# 66  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 50 Resp: 787537  
Ion Ratio Lower Upper  
50 100  
52 32.6 24.9 37.3

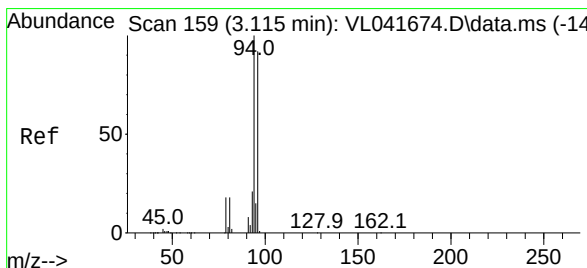
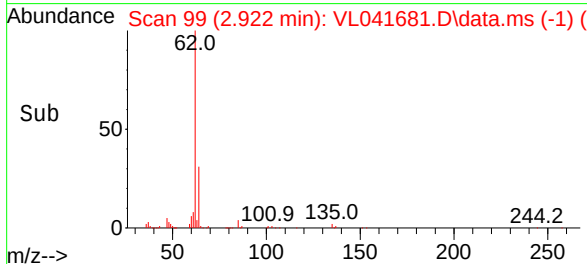
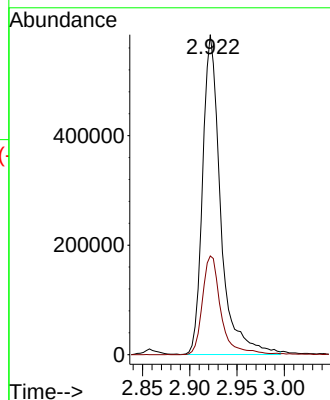
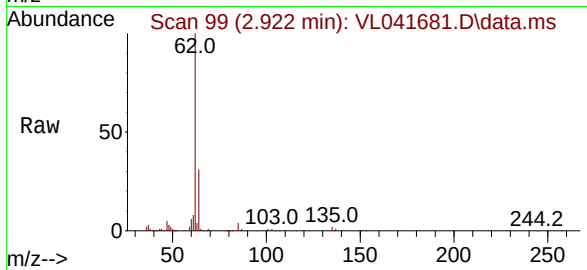




#5  
 Vinyl Chloride  
 Concen: 10.232 ppbv  
 RT: 2.922 min Scan# 94  
 Delta R.T. 0.006 min  
 Lab File: VL041681.D  
 Acq: 7 Nov 2024 14:51

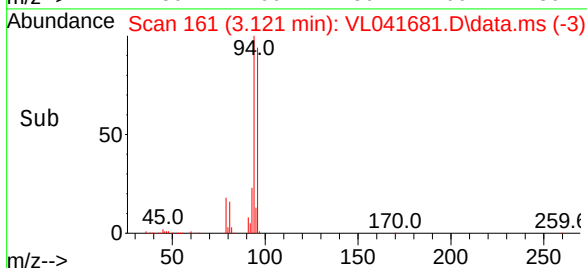
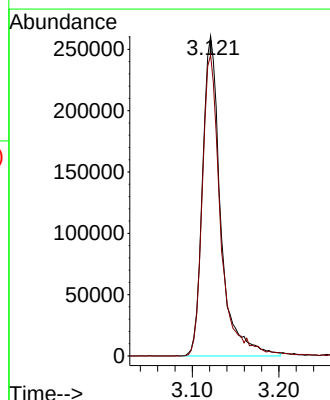
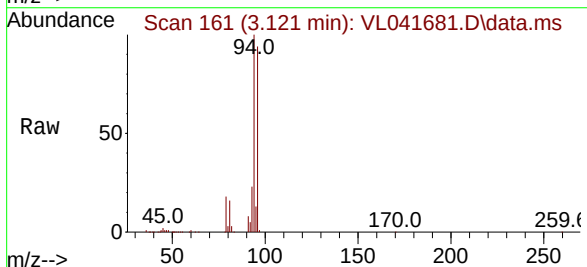
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 ClientSampleId :  
 ICVVL110724

Tgt Ion: 62 Resp: 774506  
 Ion Ratio Lower Upper  
 62 100  
 64 30.9 25.4 38.2

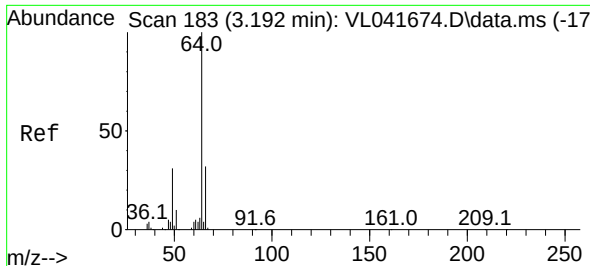


#6  
 Bromomethane  
 Concen: 9.449 ppbv  
 RT: 3.121 min Scan# 161  
 Delta R.T. 0.006 min  
 Lab File: VL041681.D  
 Acq: 7 Nov 2024 14:51

Tgt Ion: 94 Resp: 379427  
 Ion Ratio Lower Upper  
 94 100  
 96 94.1 73.4 110.2



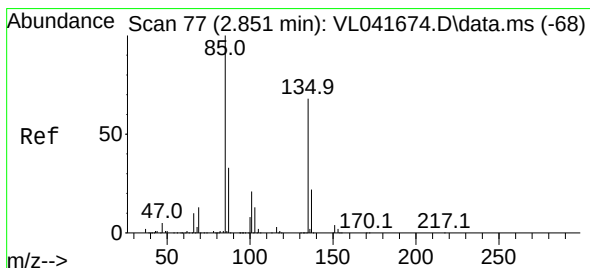
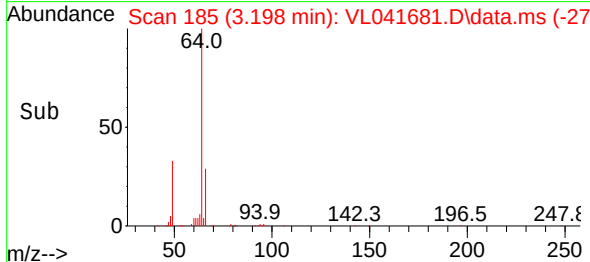
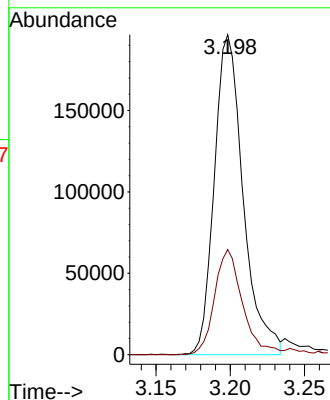
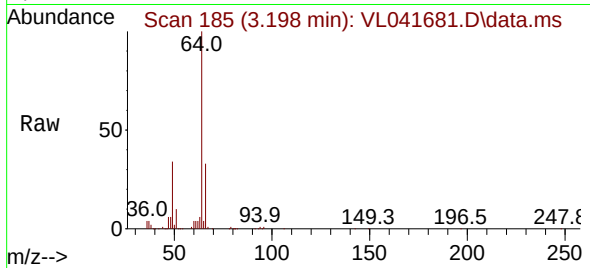




#7  
Chloroethane  
Concen: 9.626 ppbv  
RT: 3.198 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

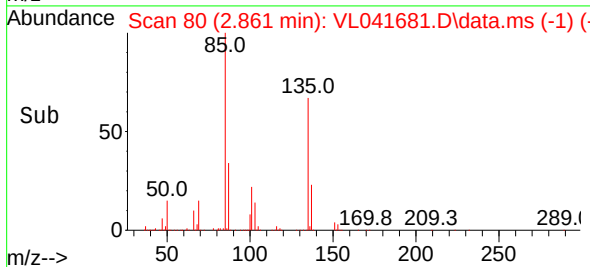
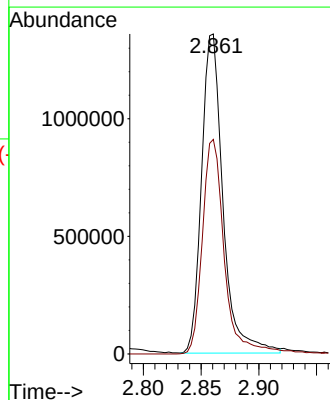
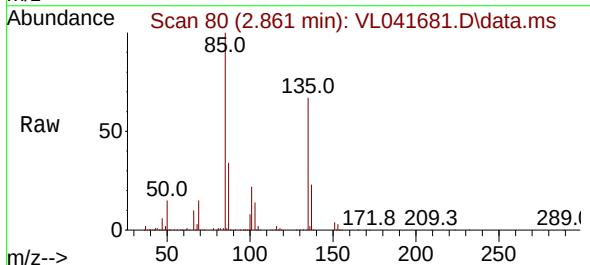
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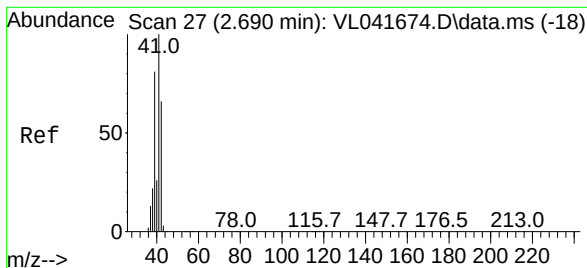
Tgt Ion: 64 Resp: 265929  
Ion Ratio Lower Upper  
64 100  
66 32.9 25.9 38.9



#8  
Dichlorotetrafluoroethane  
Concen: 8.910 ppbv  
RT: 2.861 min Scan# 80  
Delta R.T. 0.010 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 85 Resp: 1752691  
Ion Ratio Lower Upper  
85 100  
135 69.6 55.5 83.3





#9

Propene

Concen: 9.892 ppbv

RT: 2.697 min Scan# 20

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

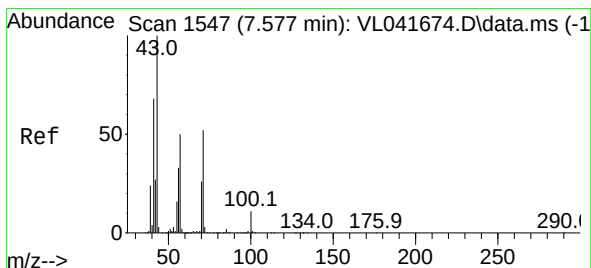
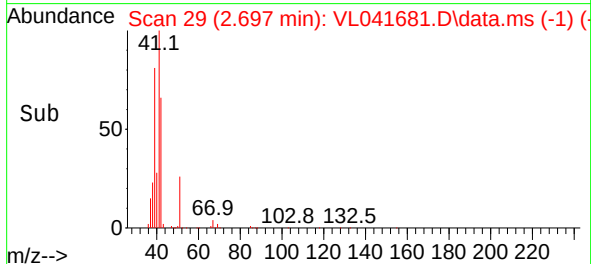
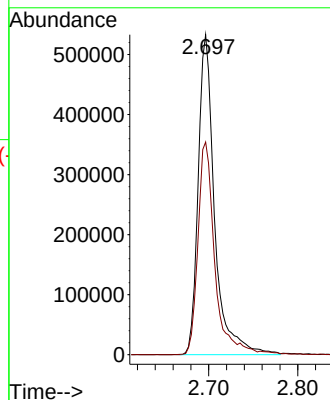
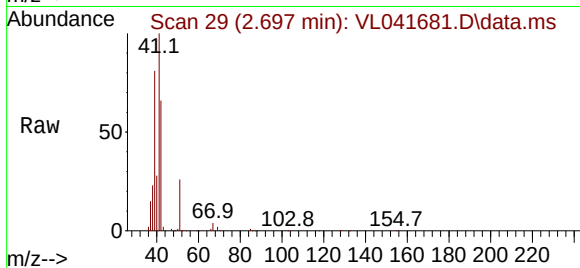
ICVVL110724

Tgt Ion: 41 Resp: 684685

Ion Ratio Lower Upper

41 100

42 68.9 55.0 82.4



#10

Heptane

Concen: 10.465 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. 0.003 min

Lab File: VL041681.D

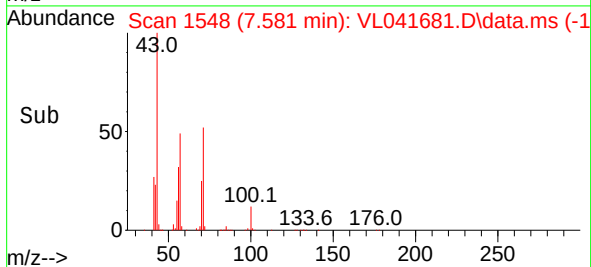
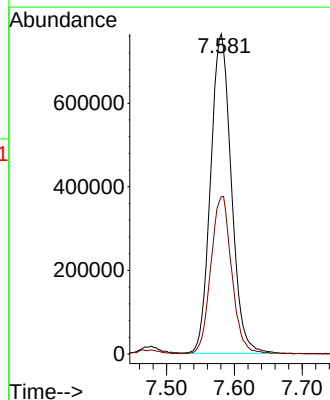
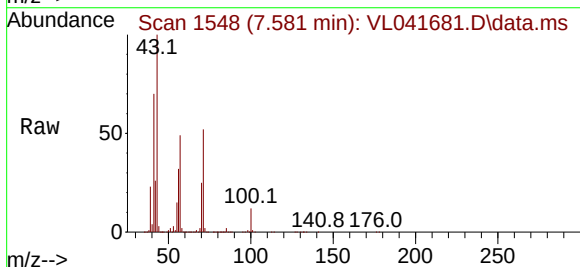
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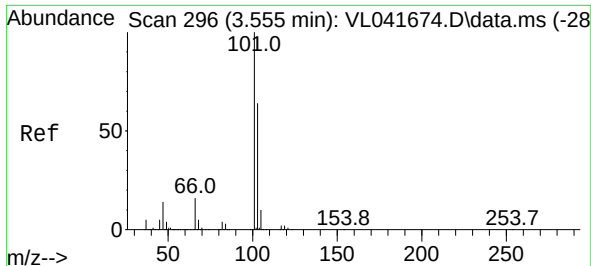
Tgt Ion: 43 Resp: 1623259

Ion Ratio Lower Upper

43 100

57 49.9 40.0 60.0





#11

Trichlorofluoromethane

Concen: 8.937 ppbv

RT: 3.562 min Scan# 296

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

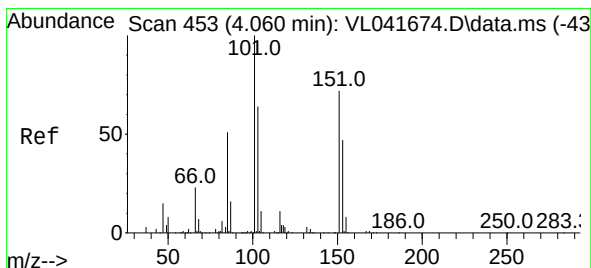
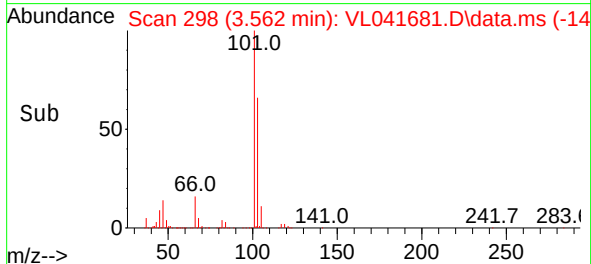
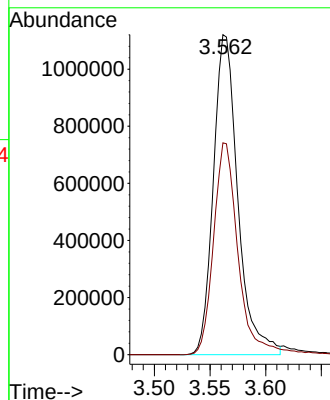
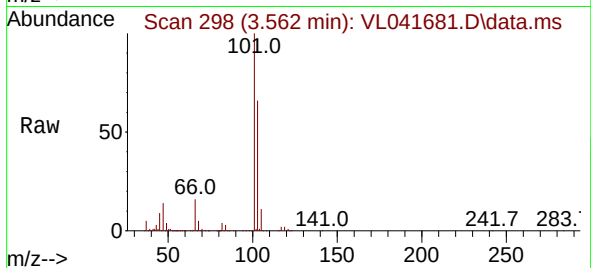
ICVVL110724

Tgt Ion:101 Resp: 1715400

Ion Ratio Lower Upper

101 100

103 66.2 51.0 76.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.225 ppbv

RT: 4.066 min Scan# 455

Delta R.T. 0.006 min

Lab File: VL041681.D

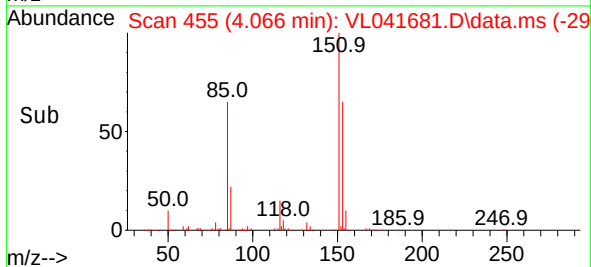
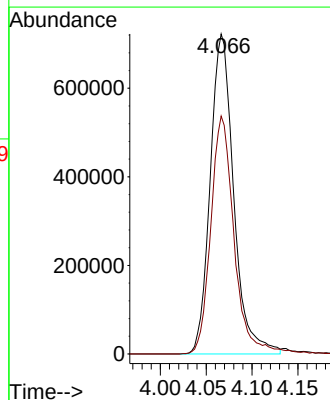
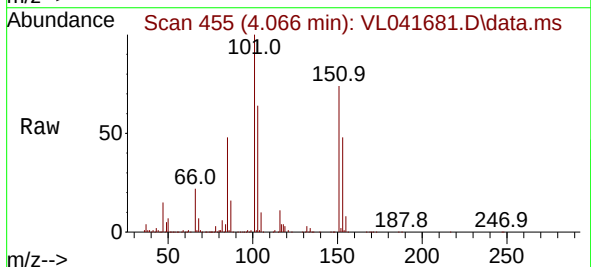
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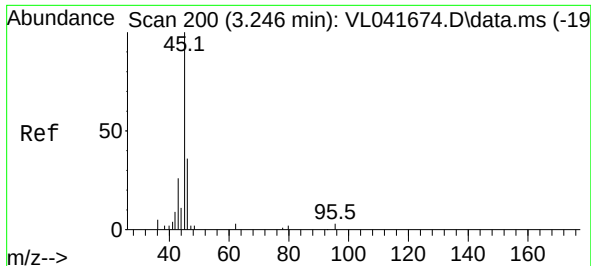
Tgt Ion:101 Resp: 1286962

Ion Ratio Lower Upper

101 100

151 74.1 59.1 88.7





#13

Ethanol

Concen: 2.169 ppbv

RT: 3.253 min Scan# 20

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

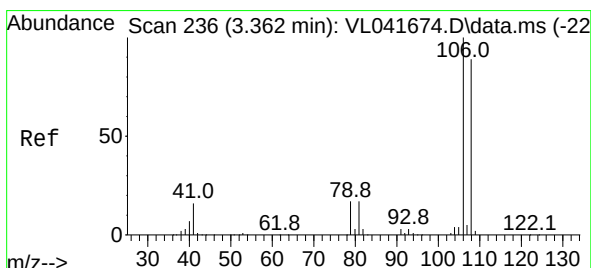
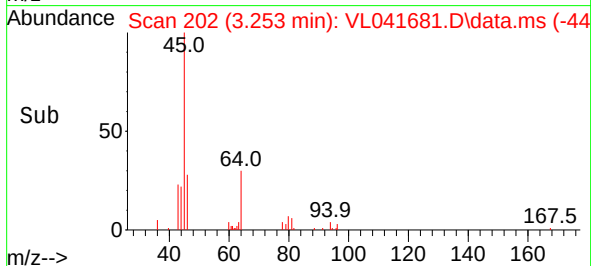
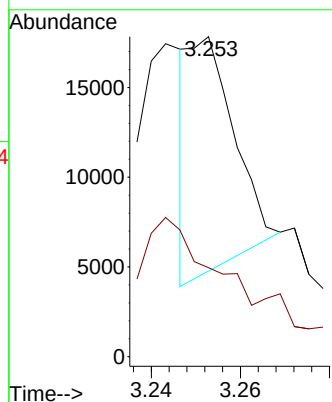
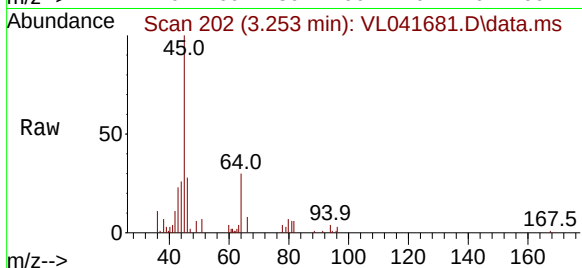
ICVVL110724

Tgt Ion: 45 Resp: 9194

Ion Ratio Lower Upper

45 100

46 0.0 13.8 55.2#



#14

Bromoethene

Concen: 9.755 ppbv

RT: 3.369 min Scan# 238

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

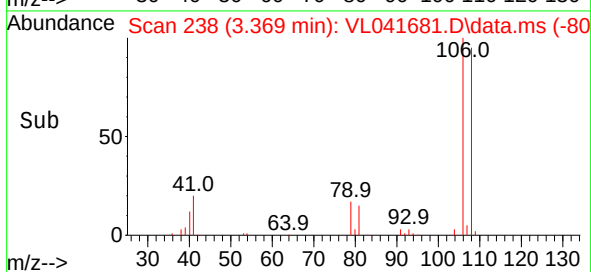
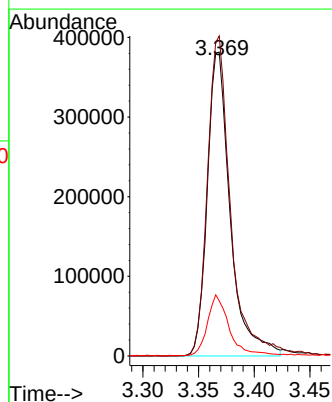
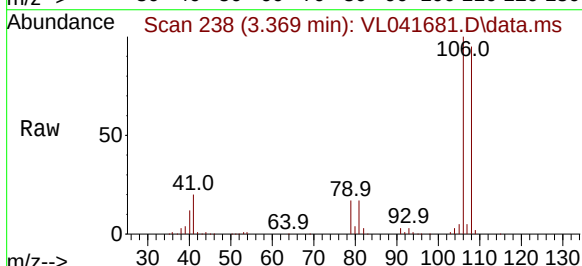
Tgt Ion:108 Resp: 547085

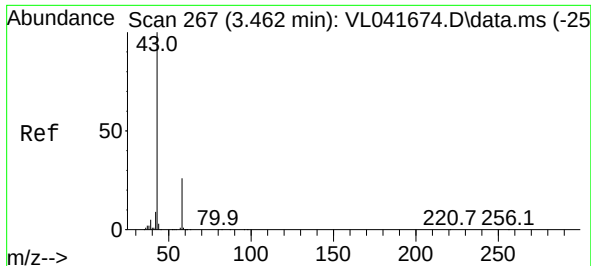
Ion Ratio Lower Upper

108 100

106 107.9 88.6 133.0

79 20.5 15.6 23.4

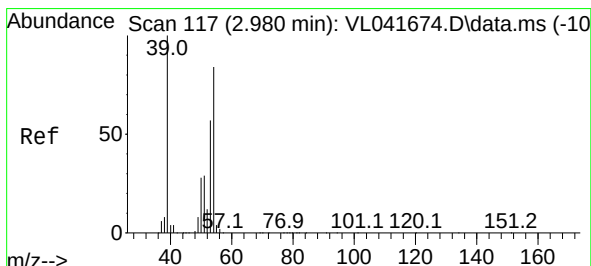
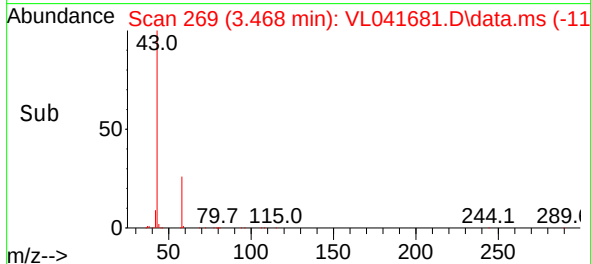
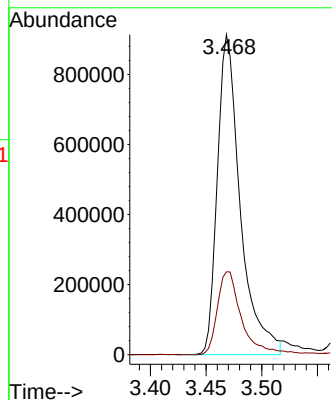
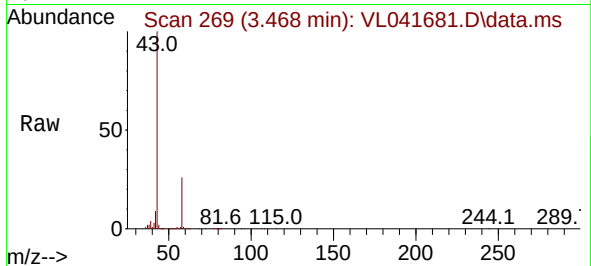




#15  
Acetone  
Concen: 8.715 ppbv  
RT: 3.468 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

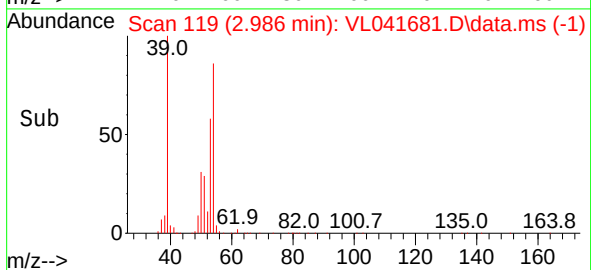
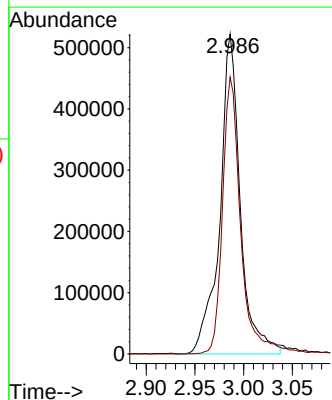
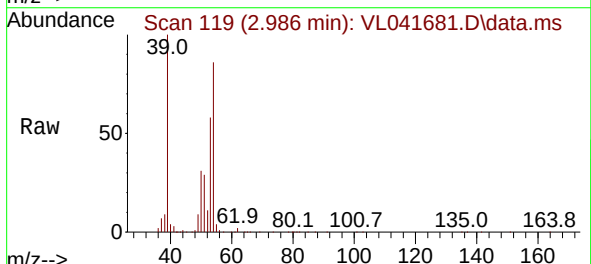
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

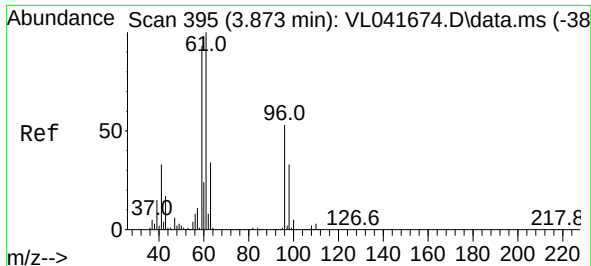
Tgt Ion: 43 Resp: 1307631  
Ion Ratio Lower Upper  
43 100  
58 27.9 21.4 32.0



#16  
1,3-Butadiene  
Concen: 10.072 ppbv  
RT: 2.986 min Scan# 119  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 39 Resp: 762546  
Ion Ratio Lower Upper  
39 100  
54 78.2 61.3 91.9

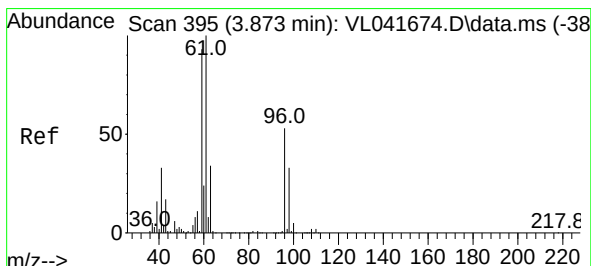
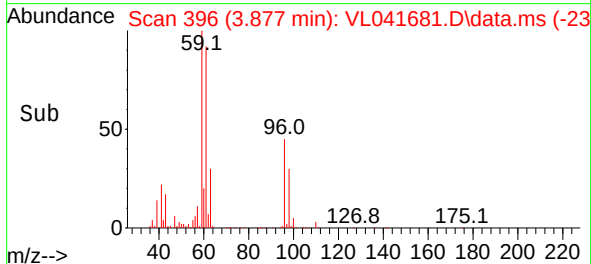
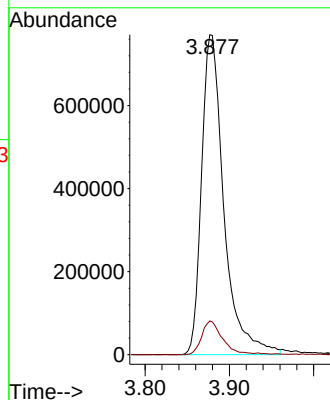
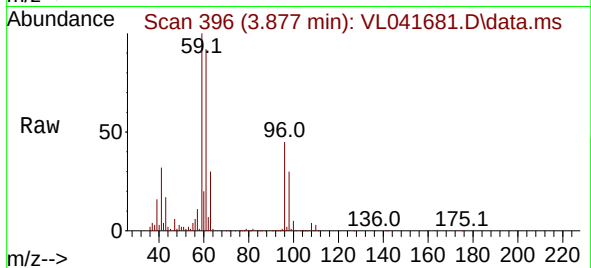




#17  
tert-Butyl alcohol  
Concen: 10.798 ppbv  
RT: 3.877 min Scan# 396  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

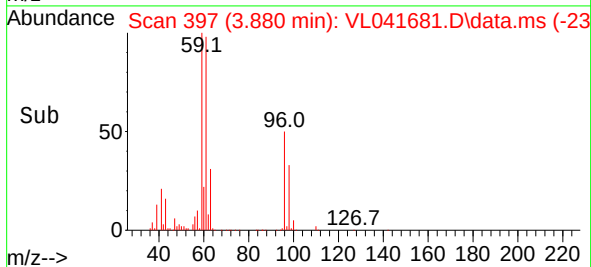
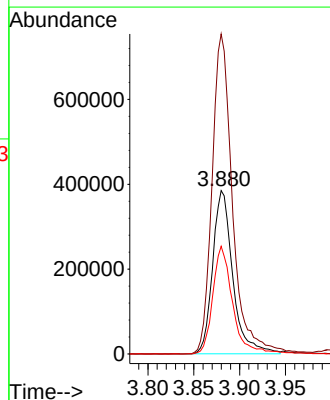
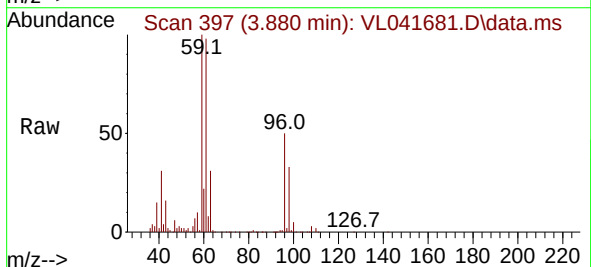
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL110724

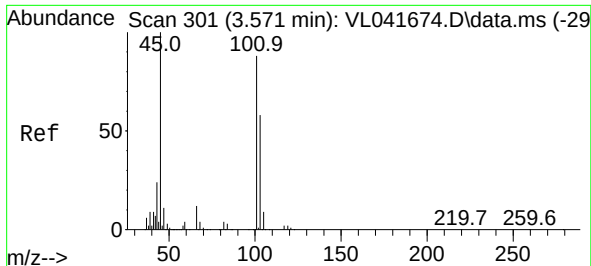
Tgt Ion: 59 Resp: 1421835  
Ion Ratio Lower Upper  
59 100  
57 10.3 8.5 12.7



#18  
1,1-Dichloroethene  
Concen: 9.632 ppbv  
RT: 3.880 min Scan# 397  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 96 Resp: 589373  
Ion Ratio Lower Upper  
96 100  
61 196.0 150.7 226.1  
98 65.9 49.4 74.2

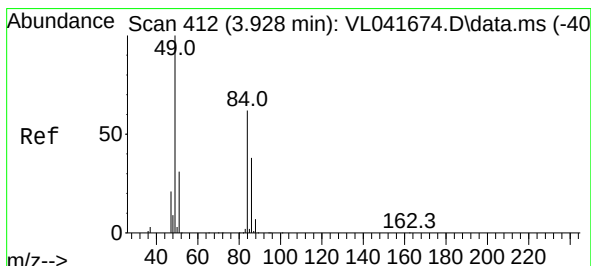
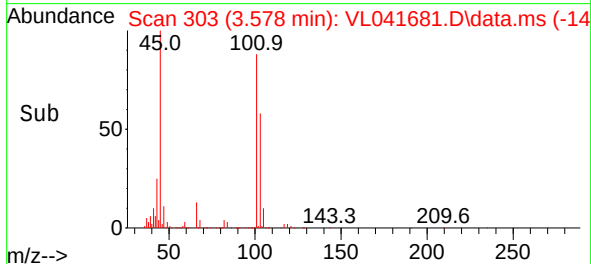
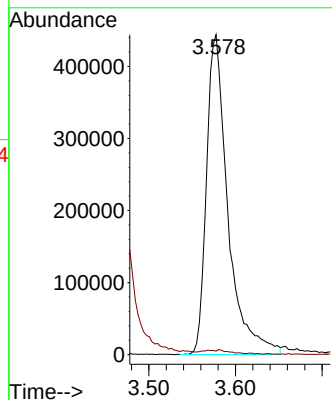
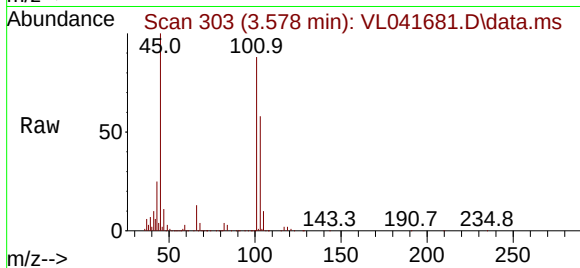




#19  
Isopropyl Alcohol  
Concen: 10.626 ppbv  
RT: 3.578 min Scan# 301  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

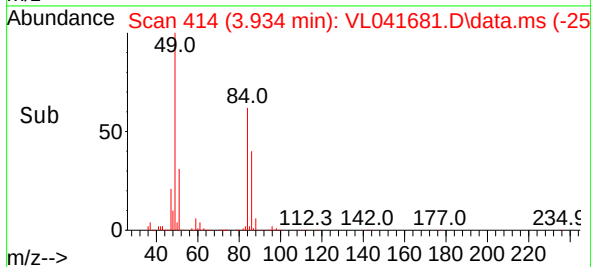
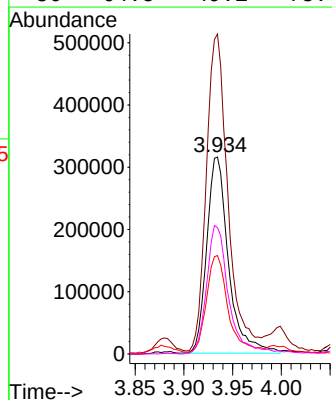
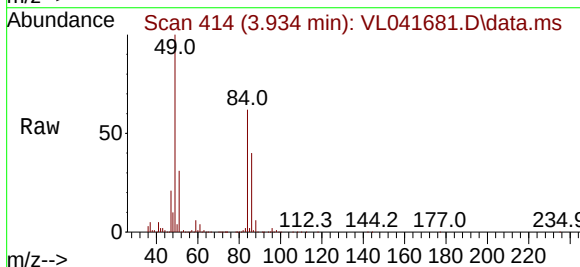
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

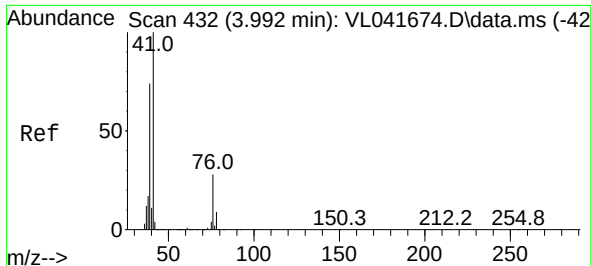
Tgt Ion: 45 Resp: 762103  
Ion Ratio Lower Upper  
45 100  
58 1.9 2.5 3.7#



#20  
Methylene Chloride  
Concen: 8.888 ppbv  
RT: 3.934 min Scan# 414  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 84 Resp: 490767  
Ion Ratio Lower Upper  
84 100  
49 160.5 129.7 194.5  
51 48.5 39.8 59.6  
86 64.5 49.1 73.7





#21

Allyl Chloride

Concen: 10.272 ppbv

RT: 3.996 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL110724

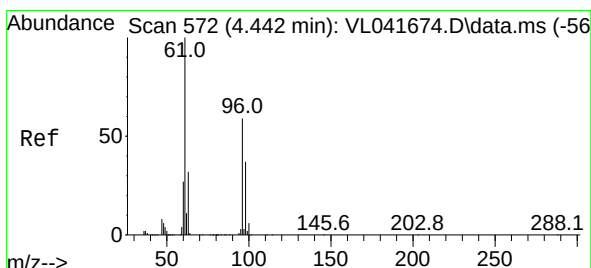
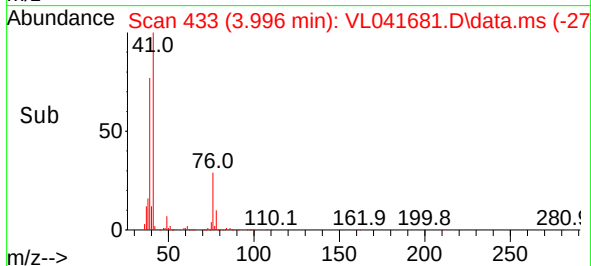
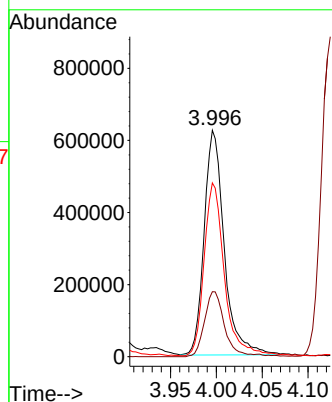
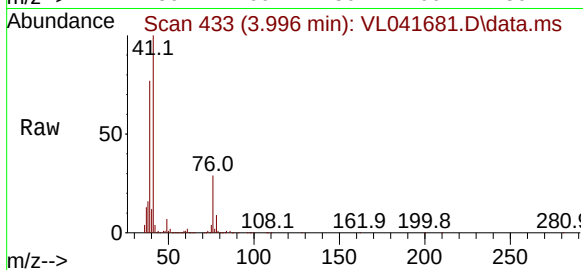
Tgt Ion: 41 Resp: 952403

Ion Ratio Lower Upper

41 100

76 29.3 23.5 35.3

39 78.0 63.0 94.4



#22

trans-1,2-Dichloroethene

Concen: 9.905 ppbv

RT: 4.446 min Scan# 573

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

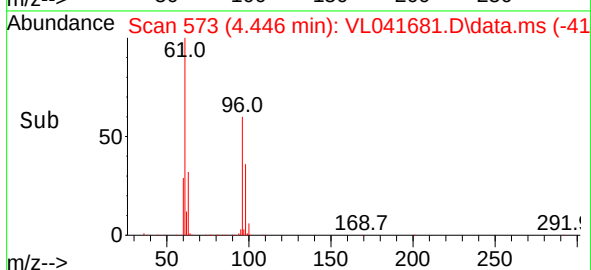
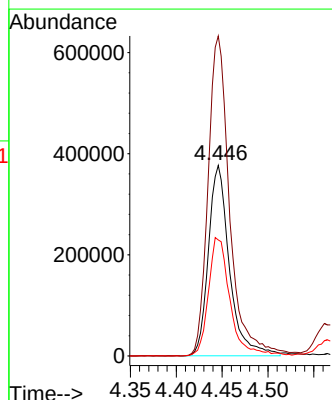
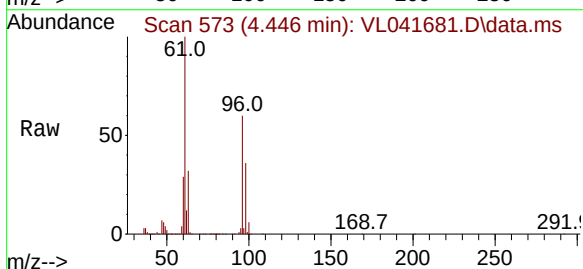
Tgt Ion: 96 Resp: 602606

Ion Ratio Lower Upper

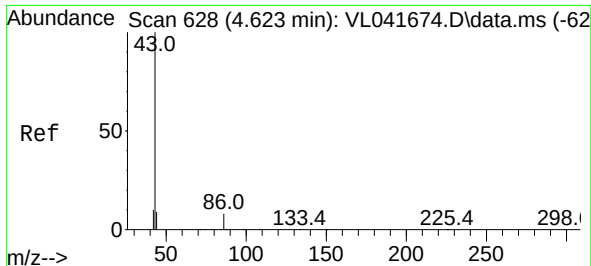
96 100

61 167.9 134.5 201.7

98 60.9 49.6 74.4





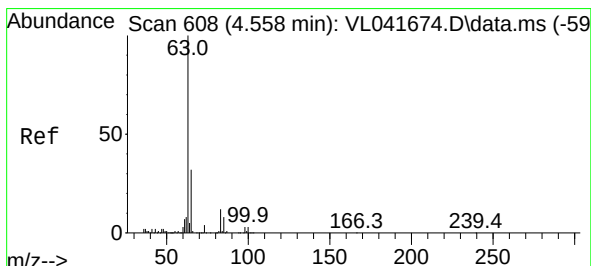
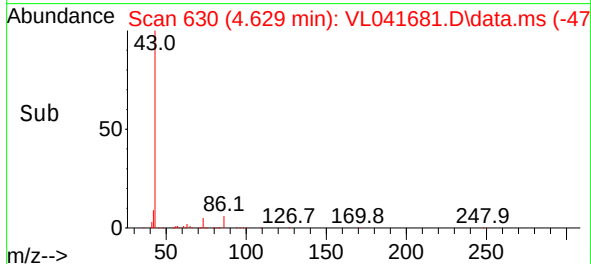
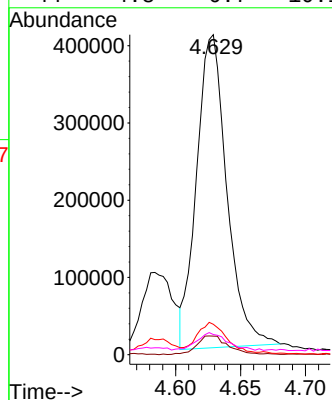
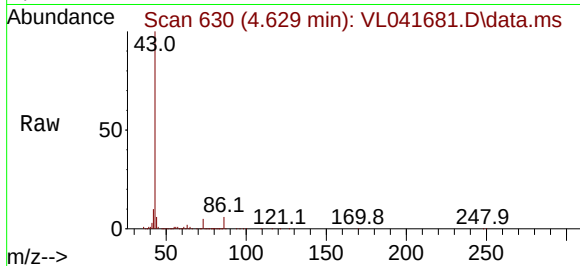


#23  
 Vinyl Acetate  
 Concen: 9.976 ppbv  
 RT: 4.629 min Scan# 610  
 Delta R.T. 0.006 min  
 Lab File: VL041681.D  
 Acq: 7 Nov 2024 14:51

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL110724

Tgt Ion: 43 Resp: 659846

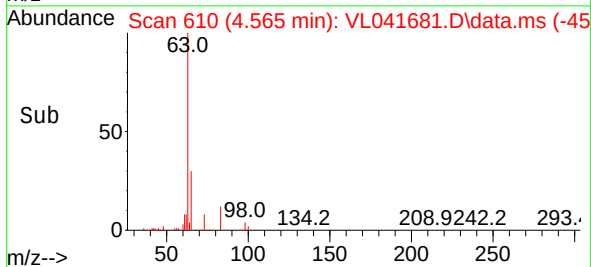
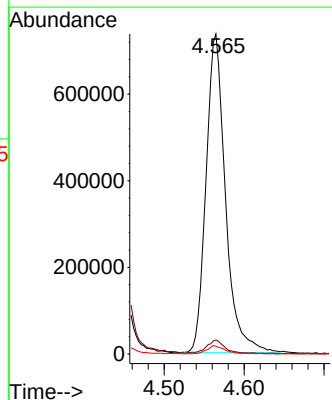
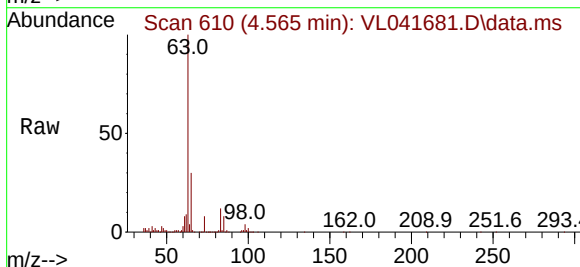
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 5.9   | 5.3   | 7.9   |
| 42  | 9.3   | 8.5   | 12.7  |
| 44  | 4.8   | 6.7   | 10.1  |

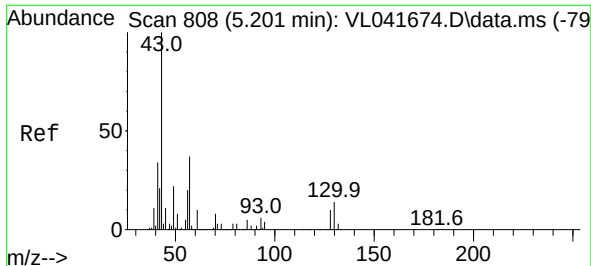


#24  
 1,1-Dichloroethane  
 Concen: 9.177 ppbv  
 RT: 4.565 min Scan# 610  
 Delta R.T. 0.006 min  
 Lab File: VL041681.D  
 Acq: 7 Nov 2024 14:51

Tgt Ion: 63 Resp: 1246280

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.2   | 1.8   | 5.4   |
| 100 | 2.3   | 1.4   | 4.2   |





#25

Ethyl Acetate

Concen: 9.850 ppbv

RT: 5.205 min Scan# 80

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL110724

Tgt Ion: 43 Resp: 3059483

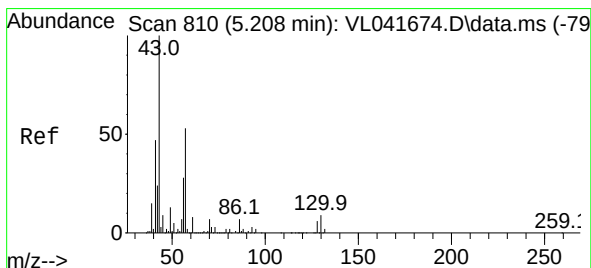
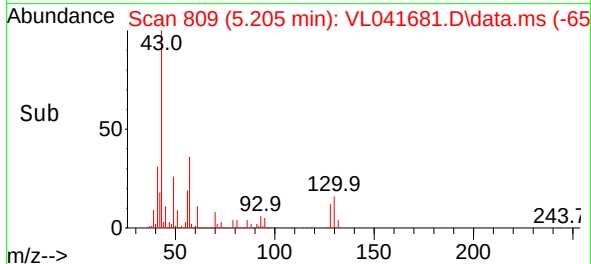
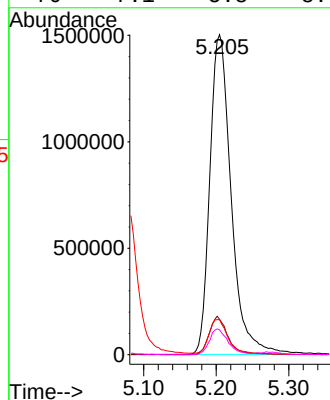
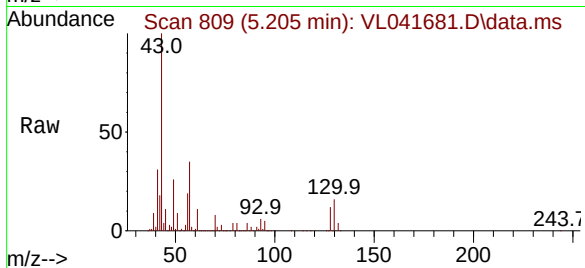
Ion Ratio Lower Upper

43 100

45 10.7 8.6 13.0

61 10.6 8.4 12.6

70 7.1 5.8 8.6



#26

Hexane

Concen: 10.235 ppbv

RT: 5.214 min Scan# 812

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Tgt Ion: 57 Resp: 1221365

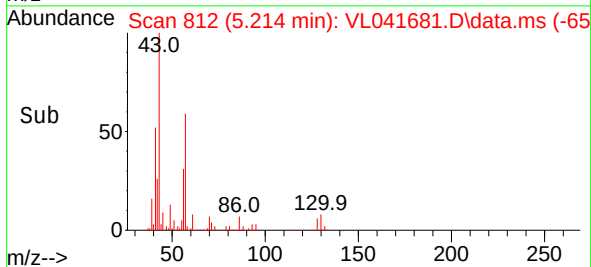
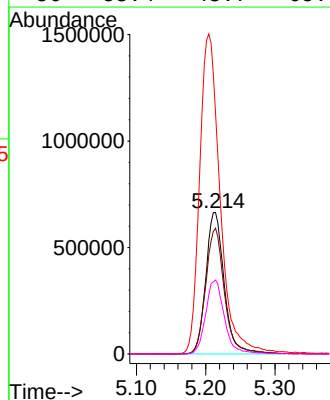
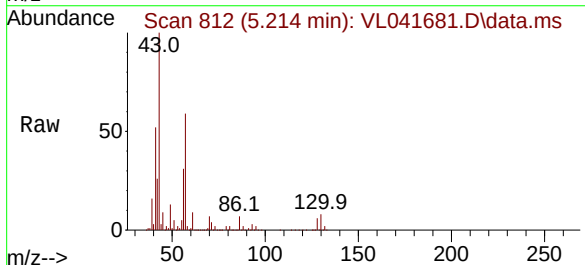
Ion Ratio Lower Upper

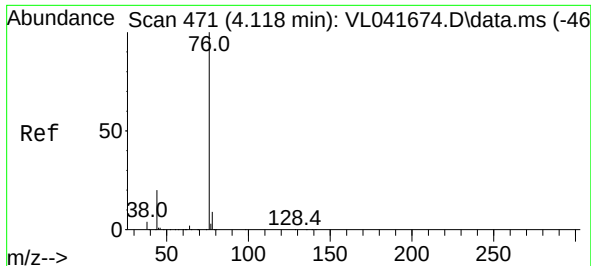
57 100

41 91.4 76.1 114.1

43 252.9 207.0 310.6

56 53.4 43.7 65.5

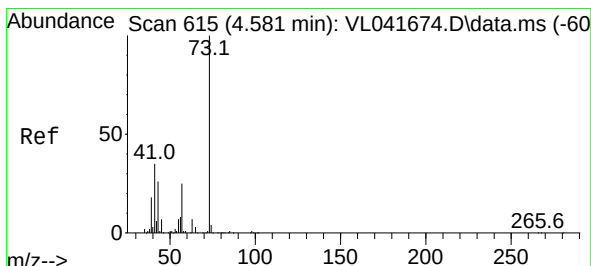
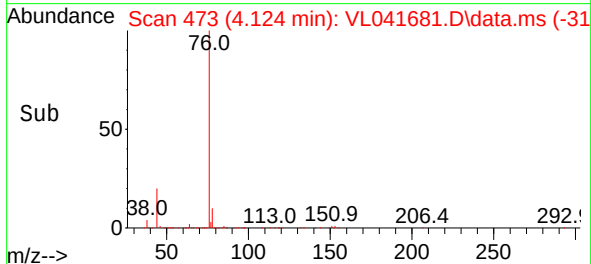
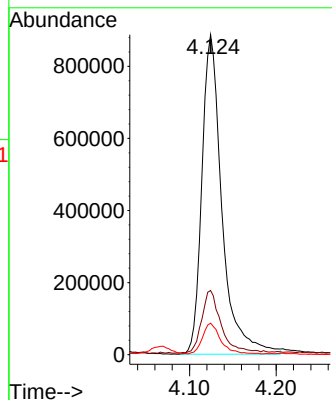
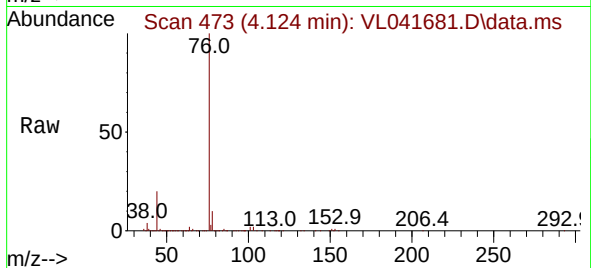




#27  
Carbon Disulfide  
Concen: 10.648 ppbv  
RT: 4.124 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

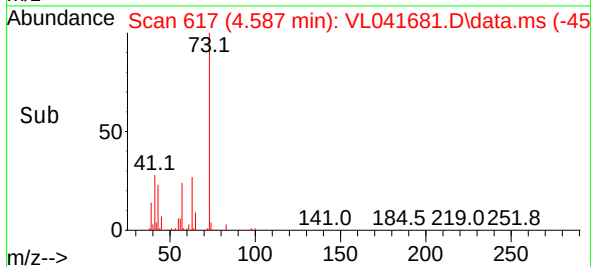
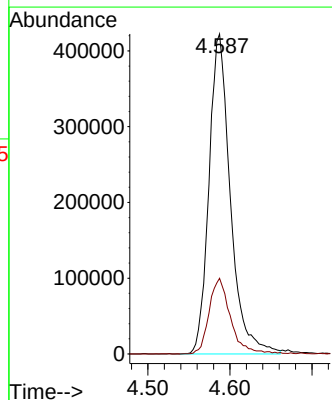
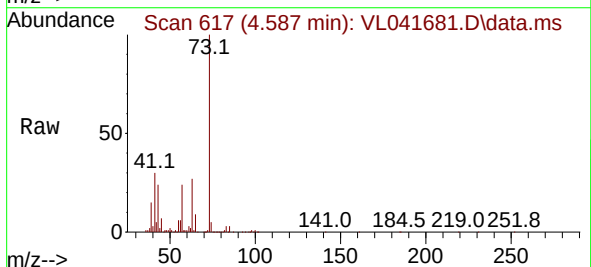
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

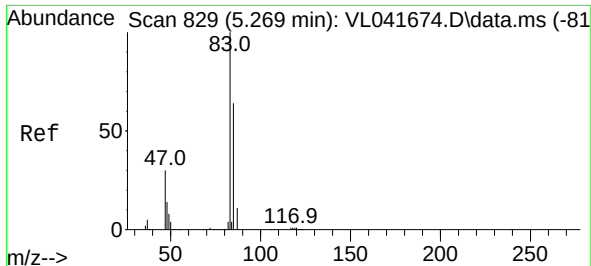
Tgt Ion: 76 Resp: 1427544  
Ion Ratio Lower Upper  
76 100  
44 20.5 15.8 23.8  
78 10.0 7.5 11.3



#28  
Methyl tert-Butyl Ether  
Concen: 9.954 ppbv  
RT: 4.587 min Scan# 617  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 73 Resp: 764924  
Ion Ratio Lower Upper  
73 100  
57 23.9 19.6 29.4





#29

Chloroform

Concen: 9.167 ppbv

RT: 5.275 min Scan# 831

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

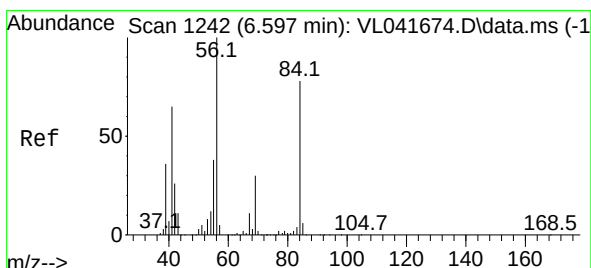
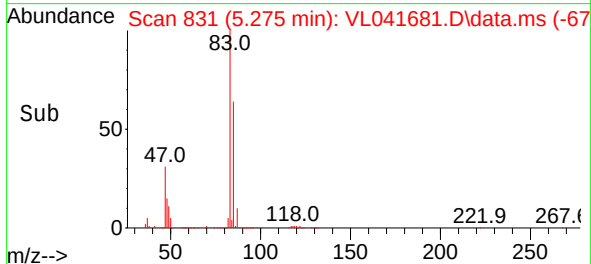
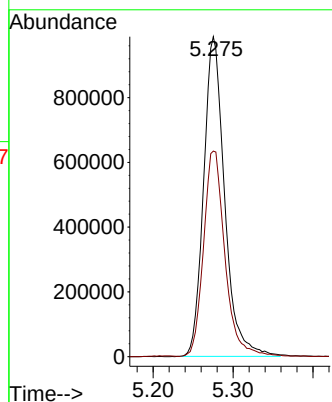
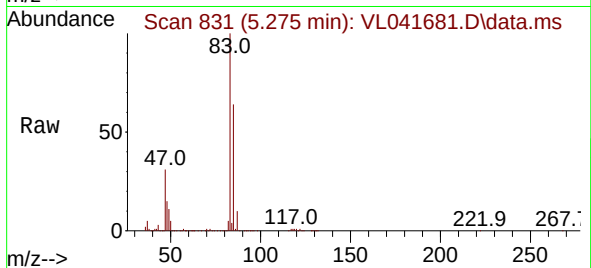
ICVVL110724

Tgt Ion: 83 Resp: 1805559

Ion Ratio Lower Upper

83 100

85 64.2 51.1 76.7



#30

Cyclohexane

Concen: 10.204 ppbv

RT: 6.603 min Scan# 1244

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

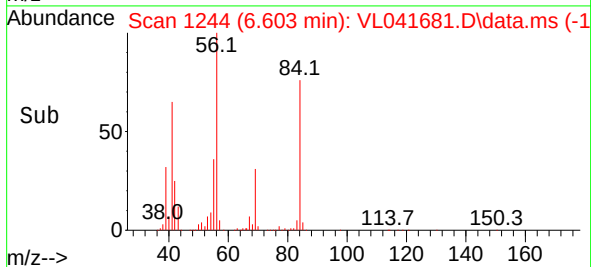
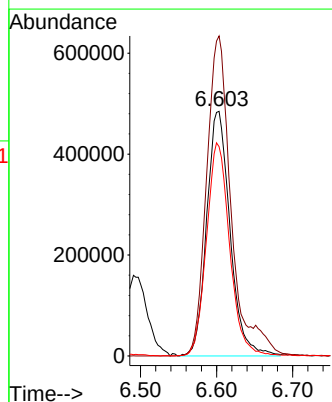
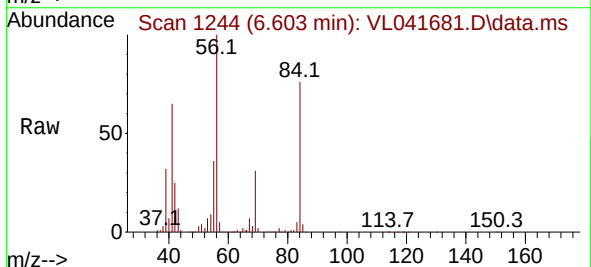
Tgt Ion: 84 Resp: 1036810

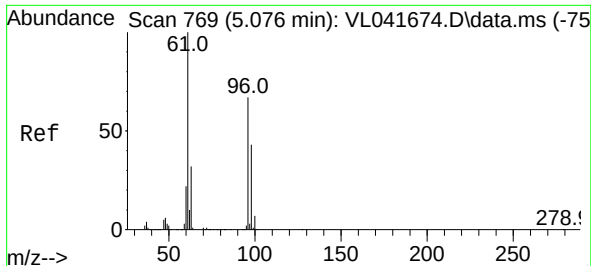
Ion Ratio Lower Upper

84 100

56 138.2 110.8 166.2

41 86.7 70.0 105.0





#31

cis-1,2-Dichloroethene

Concen: 10.374 ppbv

RT: 5.079 min Scan# 71

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL110724

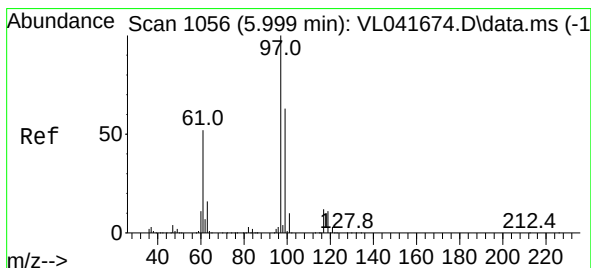
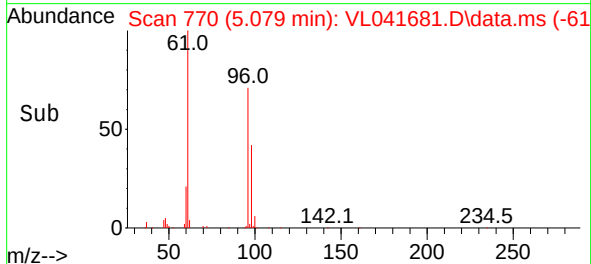
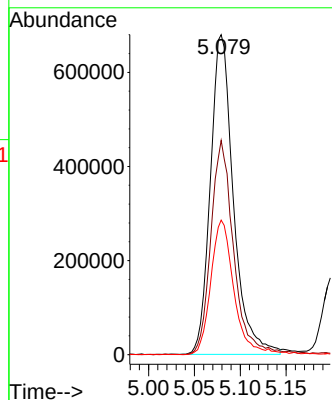
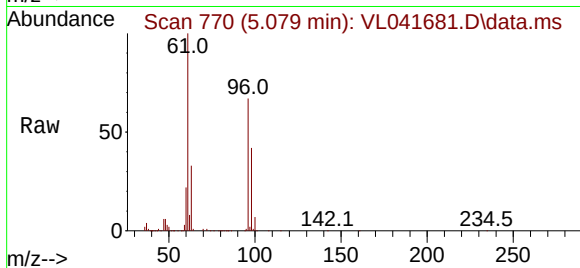
Tgt Ion: 61 Resp: 1190854

Ion Ratio Lower Upper

61 100

96 67.0 53.4 80.2

98 42.1 34.0 51.0



#32

1,1,1-Trichloroethane

Concen: 10.002 ppbv

RT: 6.002 min Scan# 1057

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

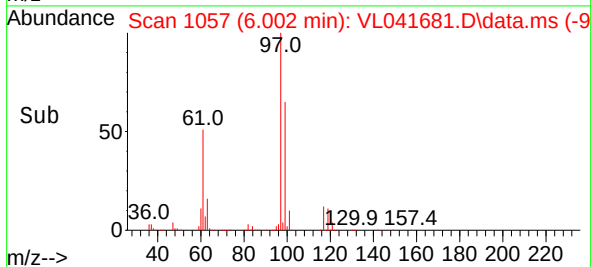
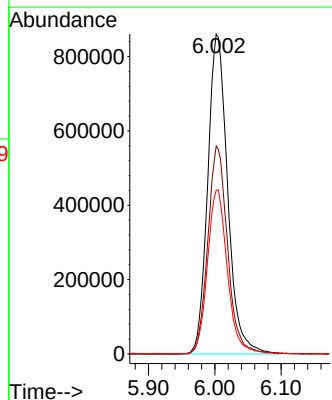
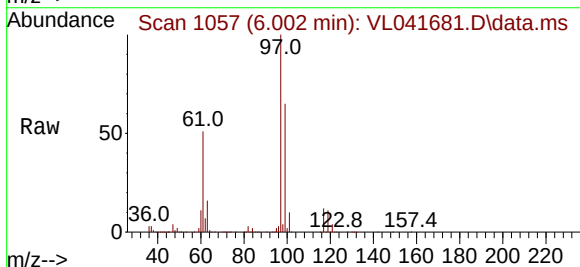
Tgt Ion: 97 Resp: 1797279

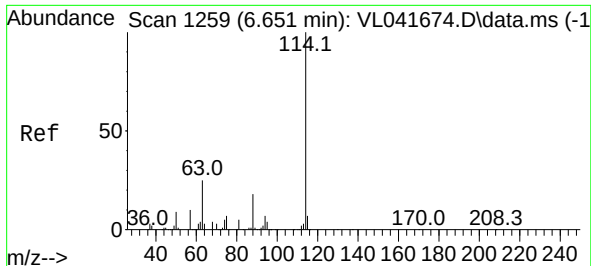
Ion Ratio Lower Upper

97 100

99 64.4 51.4 77.2

61 51.4 41.7 62.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL110724

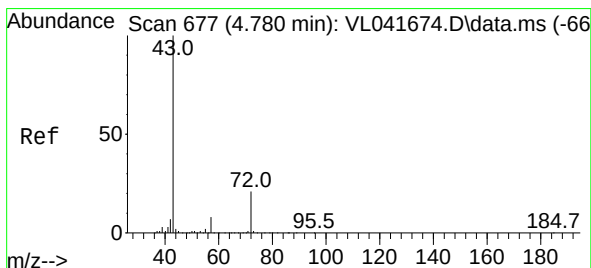
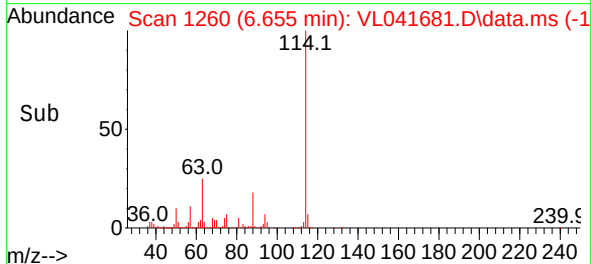
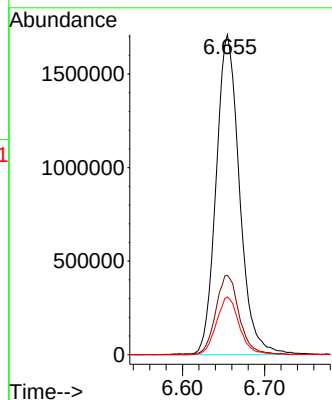
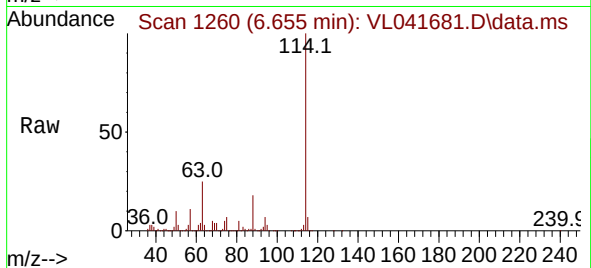
Tgt Ion:114 Resp: 3384840

Ion Ratio Lower Upper

114 100

63 25.4 20.3 30.5

88 17.9 14.2 21.4



#34

2-Butanone

Concen: 10.390 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.006 min

Lab File: VL041681.D

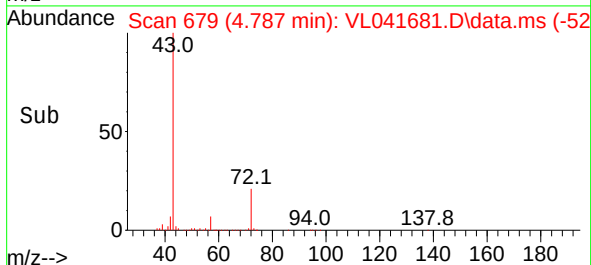
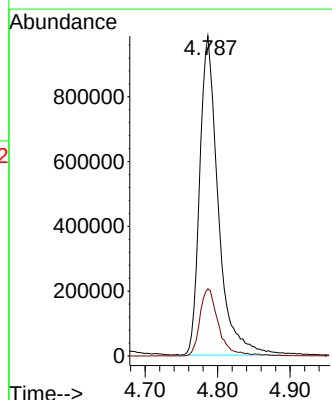
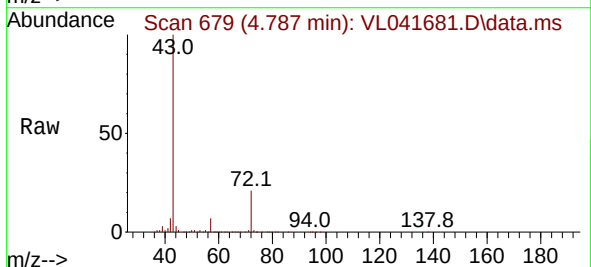
Acq: 7 Nov 2024 14:51

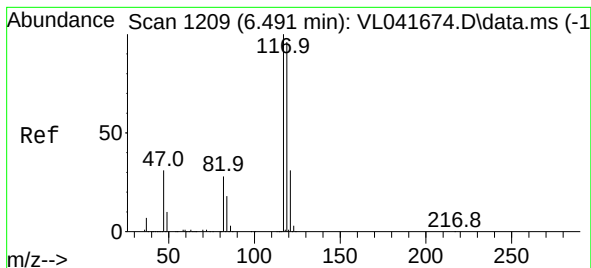
Tgt Ion: 43 Resp: 1751089

Ion Ratio Lower Upper

43 100

72 21.6 17.4 26.0





#35

Carbon Tetrachloride

Concen: 10.244 ppbv

RT: 6.494 min Scan# 1171

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_1

ClientSampleId :

ICVVL110724

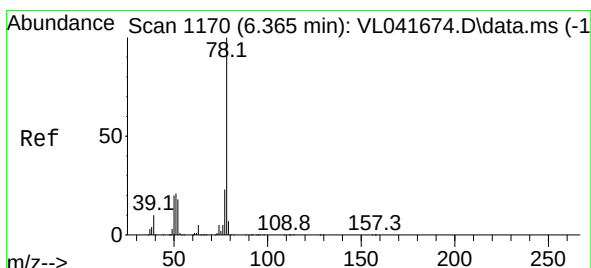
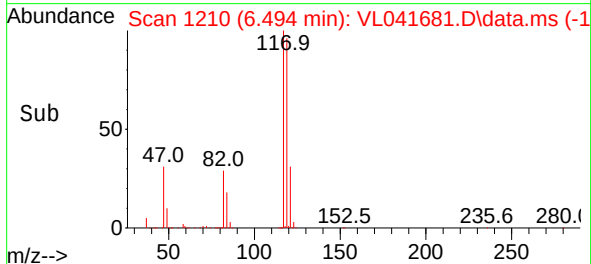
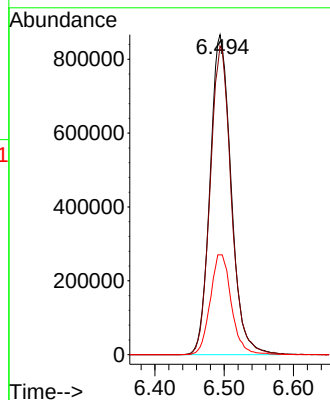
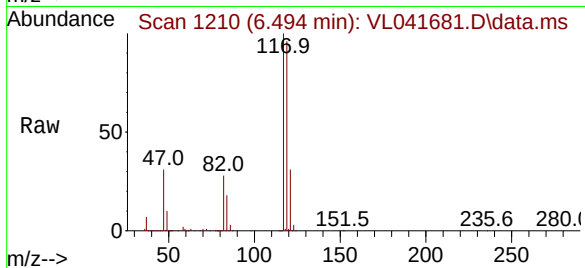
Tgt Ion:117 Resp: 1829420

Ion Ratio Lower Upper

117 100

119 96.4 77.2 115.8

121 31.2 25.0 37.4



#36

Benzene

Concen: 10.208 ppbv

RT: 6.368 min Scan# 1171

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

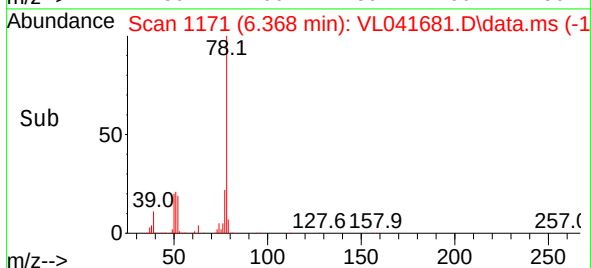
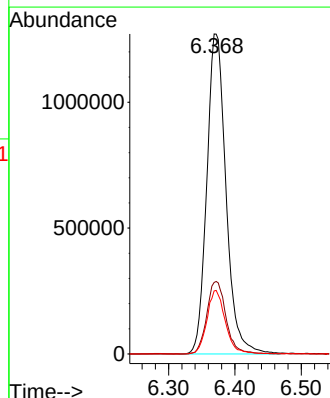
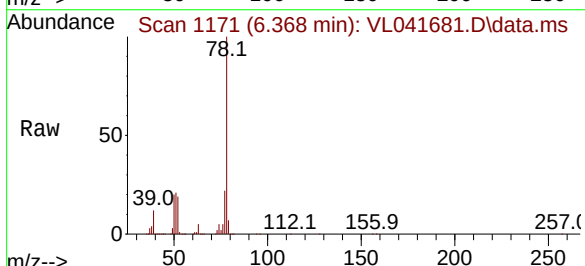
Tgt Ion: 78 Resp: 2560057

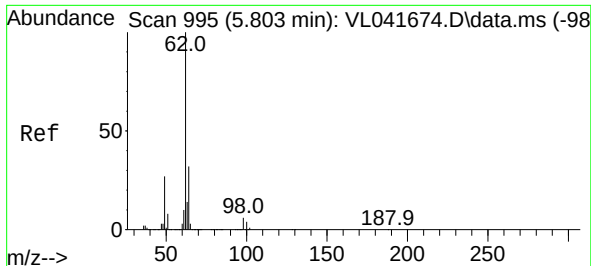
Ion Ratio Lower Upper

78 100

77 22.3 18.5 27.7

50 19.7 15.6 23.4

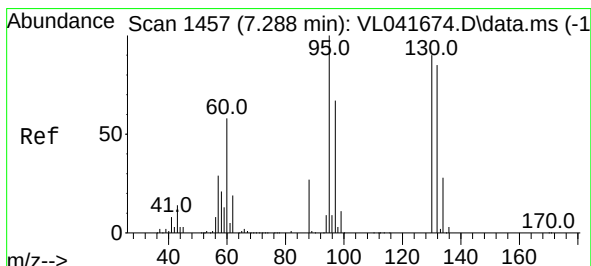
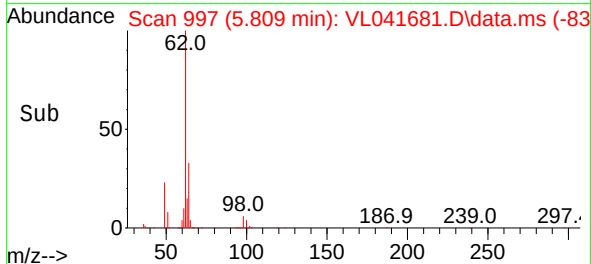
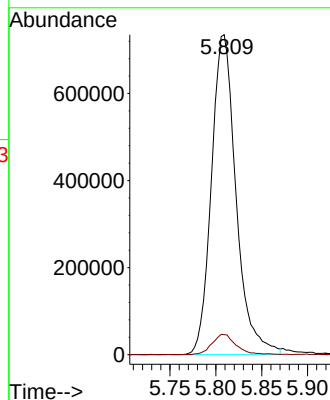
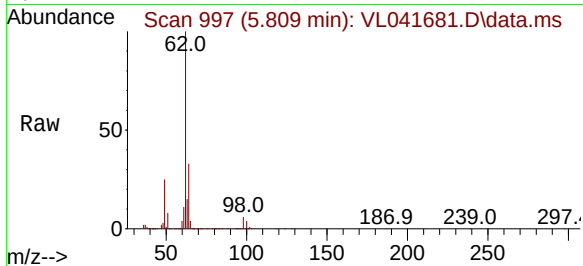




#37  
1,2-Dichloroethane  
Concen: 9.726 ppbv  
RT: 5.809 min Scan# 995  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

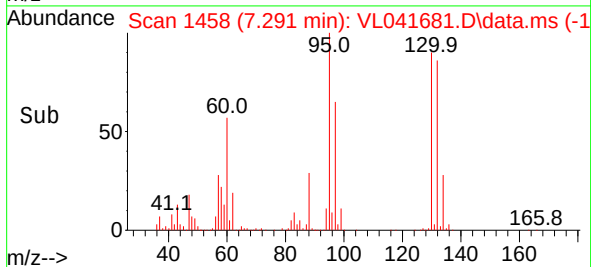
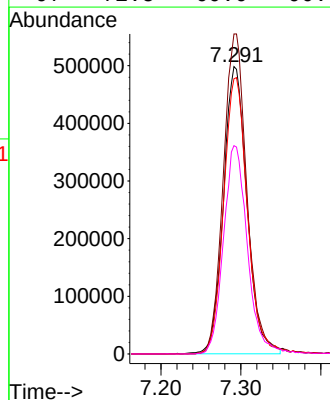
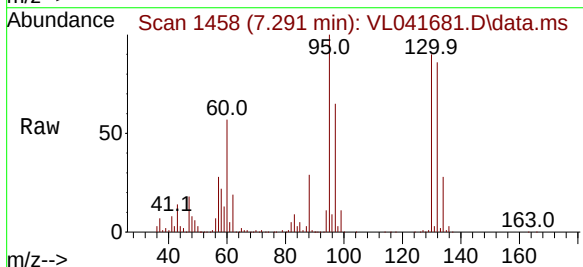
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

Tgt Ion: 62 Resp: 1376089  
Ion Ratio Lower Upper  
62 100  
98 6.3 5.2 7.8

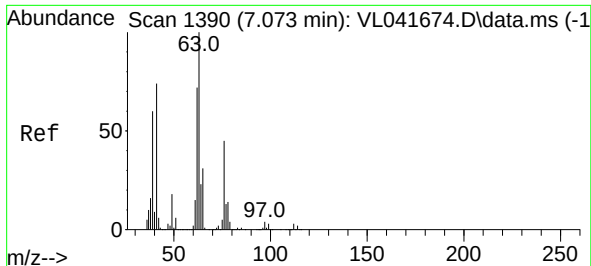


#38  
Trichloroethene  
Concen: 10.577 ppbv  
RT: 7.291 min Scan# 1458  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion:130 Resp: 1018788  
Ion Ratio Lower Upper  
130 100  
95 111.4 89.1 133.7  
132 95.8 75.7 113.5  
97 72.5 60.0 90.0



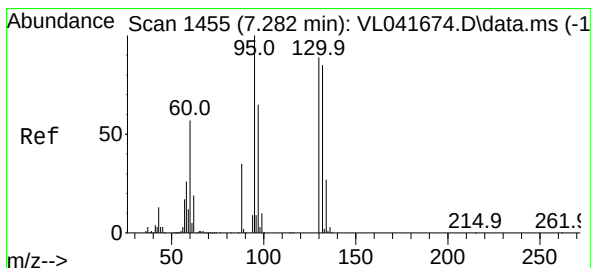
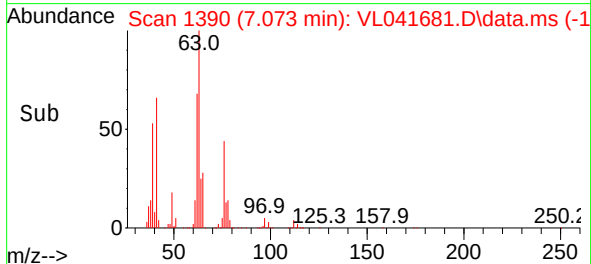
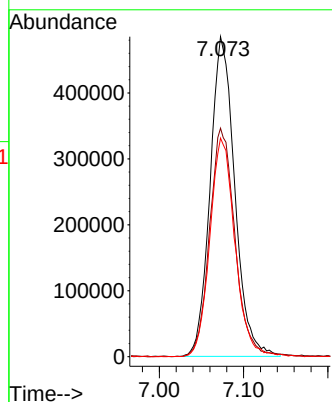
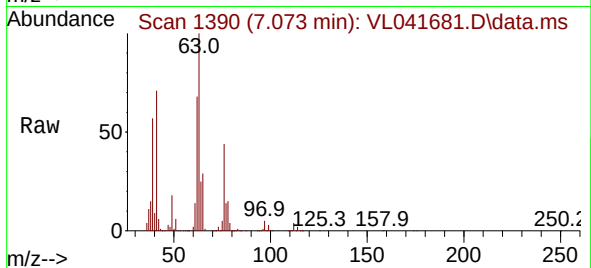




#39  
1,2-Dichloropropane  
Concen: 9.923 ppbv  
RT: 7.073 min Scan# 1390  
Delta R.T. 0.000 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

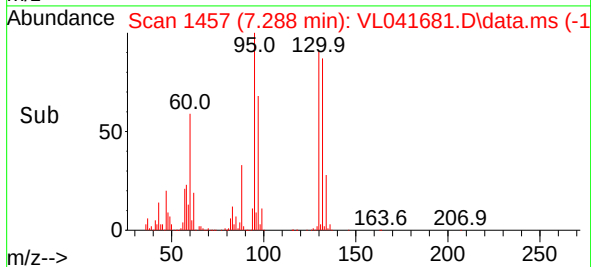
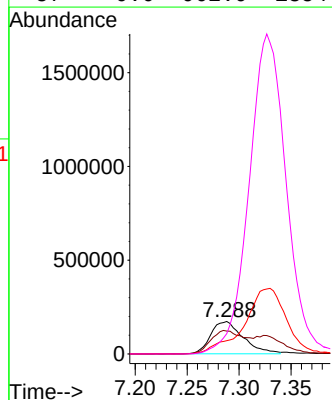
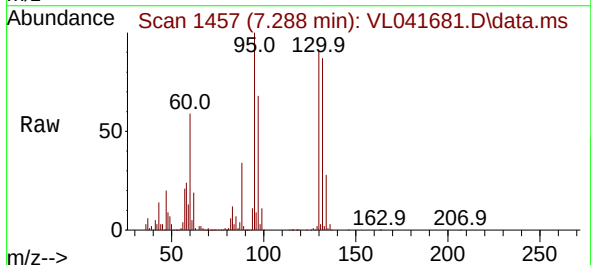
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

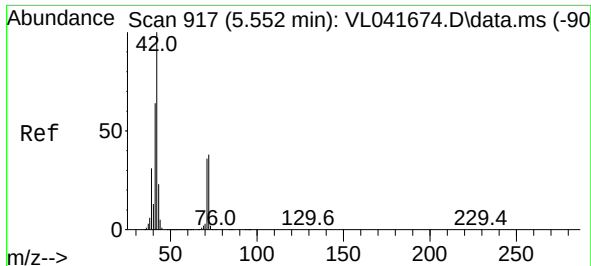
Tgt Ion: 63 Resp: 983477  
Ion Ratio Lower Upper  
63 100  
41 71.4 59.1 88.7  
62 68.3 57.7 86.5



#40  
1,4-Dioxane  
Concen: 10.579 ppbv  
RT: 7.288 min Scan# 1457  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 88 Resp: 376201  
Ion Ratio Lower Upper  
88 100  
58 127.2 101.4 152.2  
43 0.0 208.0 312.0#  
57 0.0 902.9 1354.3#





#41

Tetrahydrofuran

Concen: 11.067 ppbv

RT: 5.555 min Scan# 917

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL110724

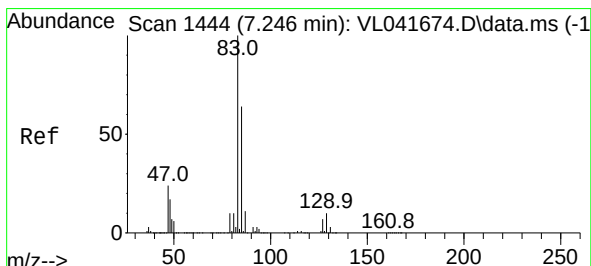
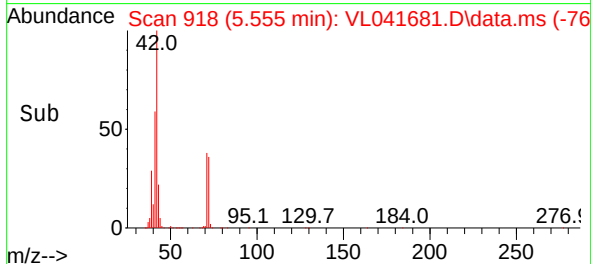
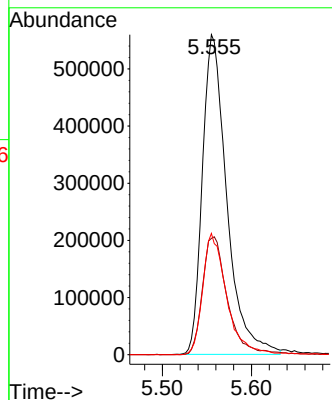
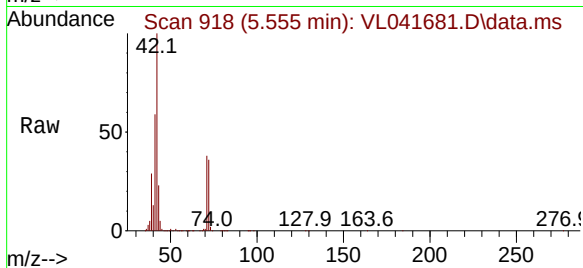
Tgt Ion: 42 Resp: 1065202

Ion Ratio Lower Upper

42 100

72 37.9 29.8 44.6

71 37.5 29.4 44.2



#42

Bromodichloromethane

Concen: 10.002 ppbv

RT: 7.253 min Scan# 1446

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

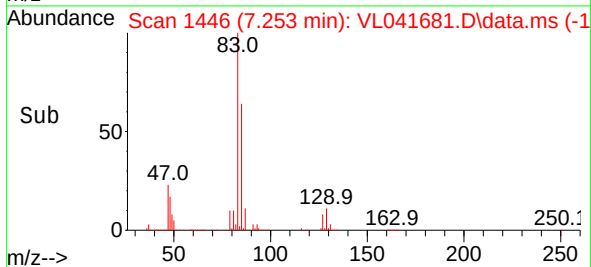
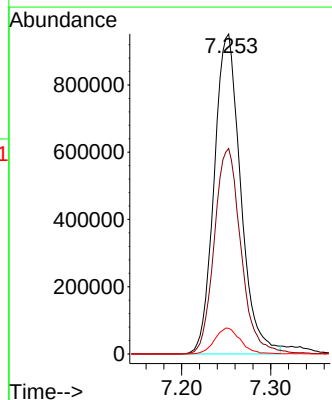
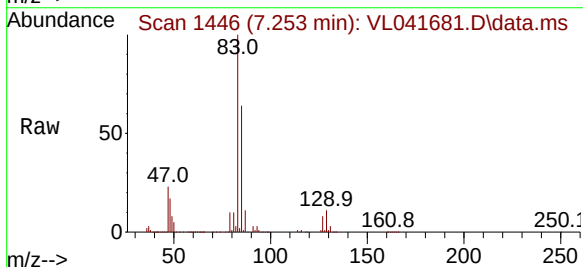
Tgt Ion: 83 Resp: 1966589

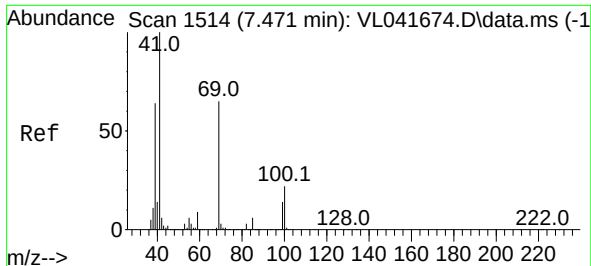
Ion Ratio Lower Upper

83 100

85 64.2 51.2 76.8

127 8.0 6.0 9.0





#43

Methyl Methacrylate

Concen: 11.473 ppbv

RT: 7.475 min Scan# 1515

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_1

ClientSampleId :

ICVVL110724

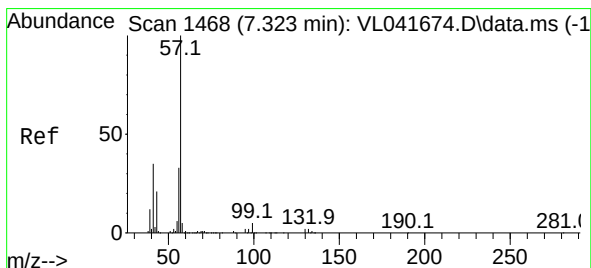
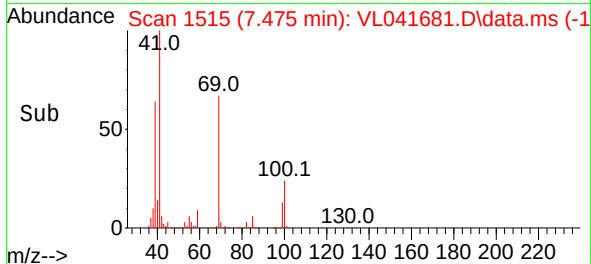
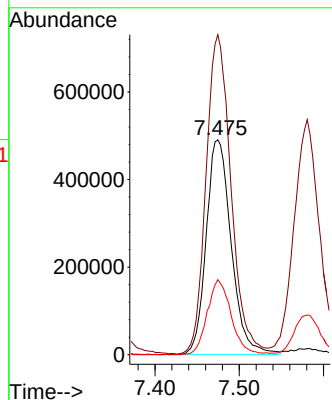
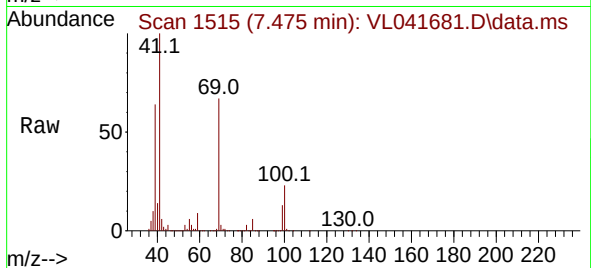
Tgt Ion: 69 Resp: 1010315

Ion Ratio Lower Upper

69 100

41 148.9 119.8 179.6

100 33.6 27.3 40.9



#44

2,2,4-Trimethylpentane

Concen: 10.012 ppbv

RT: 7.327 min Scan# 1469

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

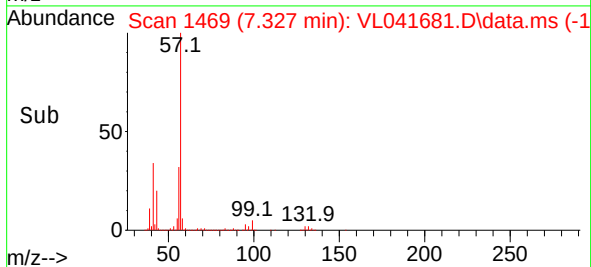
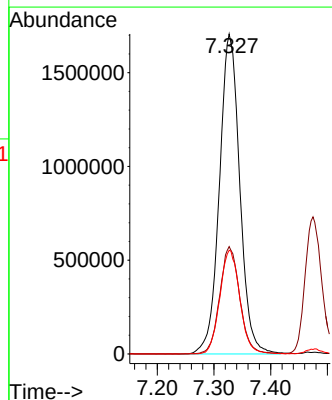
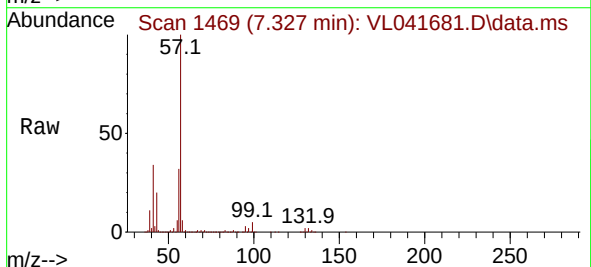
Tgt Ion: 57 Resp: 4253439

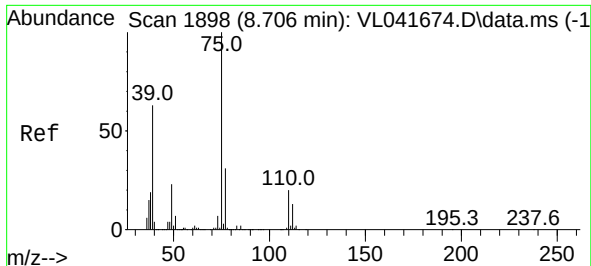
Ion Ratio Lower Upper

57 100

41 33.1 27.0 40.6

56 31.9 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 12.176 ppbv

RT: 8.712 min Scan# 1898

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

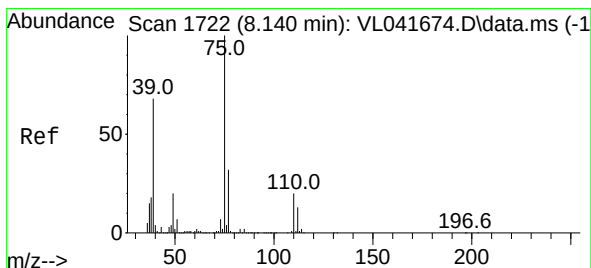
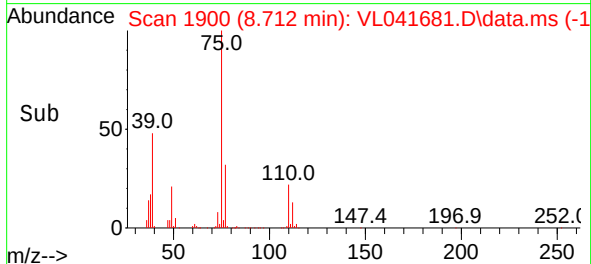
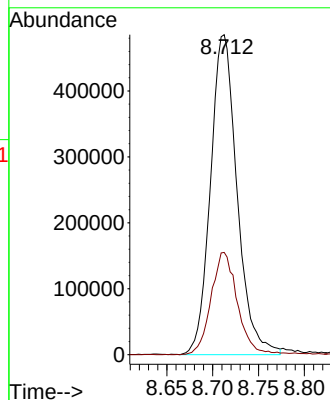
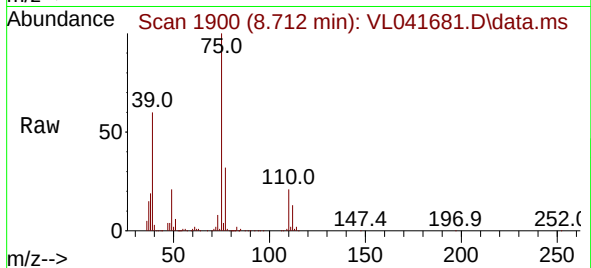
ICVVL110724

Tgt Ion: 75 Resp: 979763

Ion Ratio Lower Upper

75 100

77 32.0 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 11.555 ppbv

RT: 8.143 min Scan# 1723

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

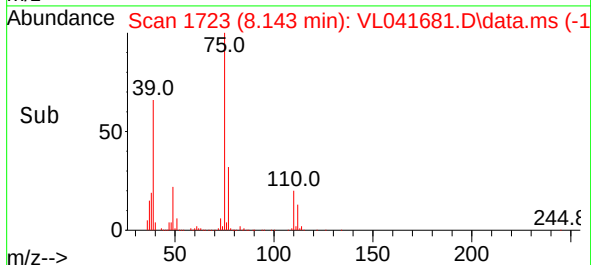
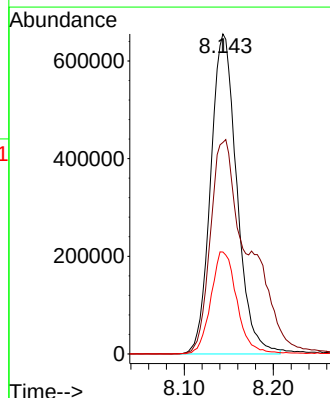
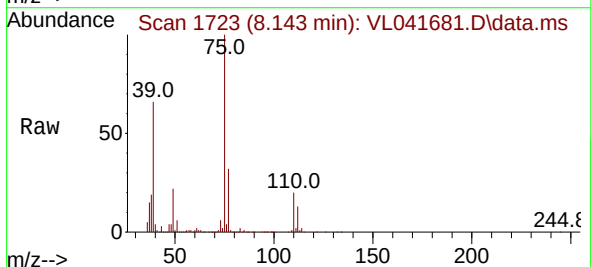
Tgt Ion: 75 Resp: 1335370

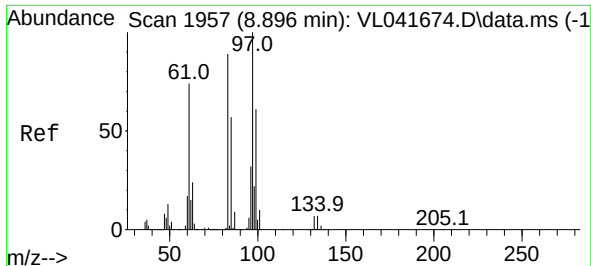
Ion Ratio Lower Upper

75 100

39 66.0 54.1 81.1

77 31.8 25.3 37.9





#47

1,1,2-Trichloroethane

Concen: 9.583 ppbv

RT: 8.899 min Scan# 1957

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

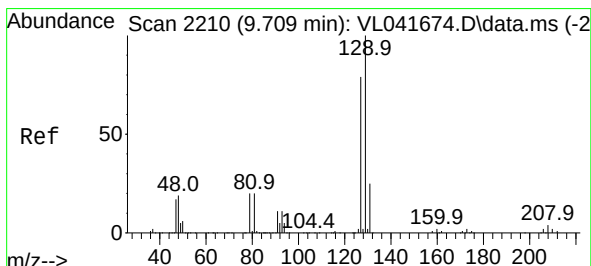
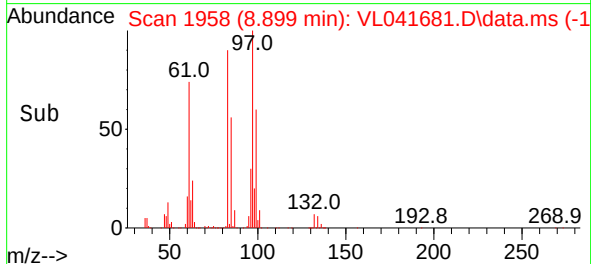
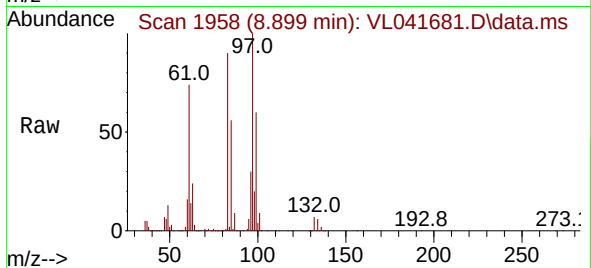
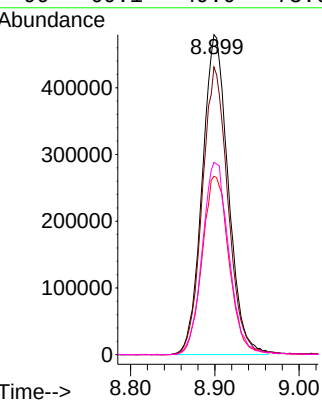
MSVOA\_L

ClientSampleId :

ICVVL110724

Tgt Ion: 97 Resp: 1027960

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 89.9  | 71.0  | 106.6 |
| 85  | 55.8  | 45.4  | 68.2  |
| 99  | 60.1  | 49.0  | 73.6  |



#48

Dibromochloromethane

Concen: 10.410 ppbv

RT: 9.712 min Scan# 2211

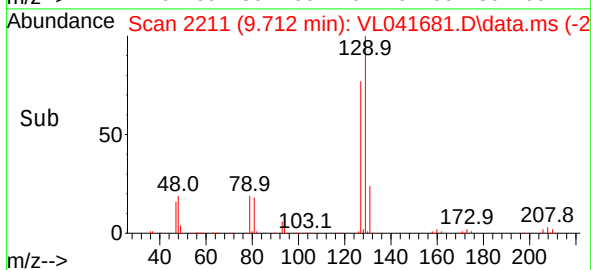
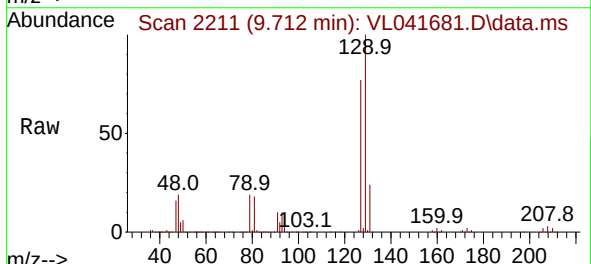
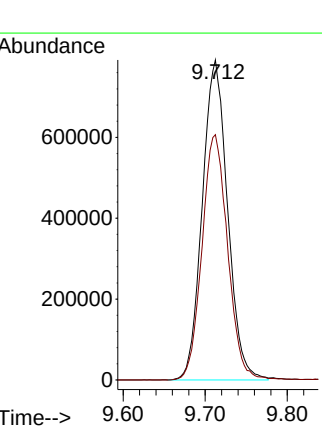
Delta R.T. 0.003 min

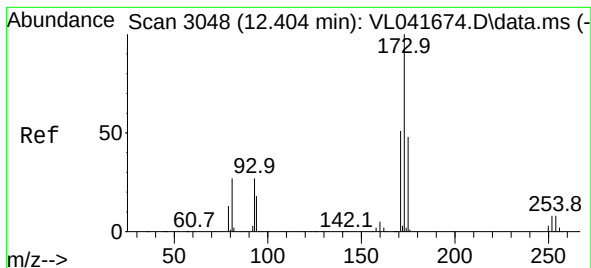
Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Tgt Ion: 129 Resp: 1697504

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.1  | 39.1  | 117.2 |





#49

Bromoform

Concen: 10.519 ppbv

RT: 12.410 min Scan# 3048

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL110724

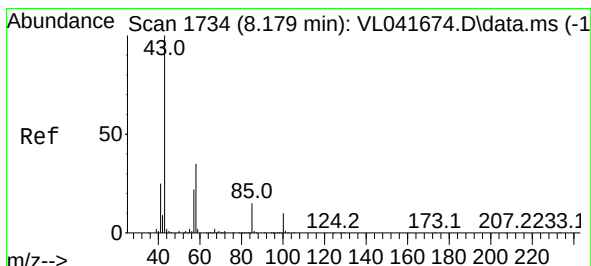
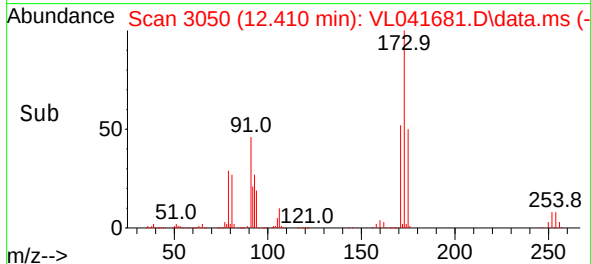
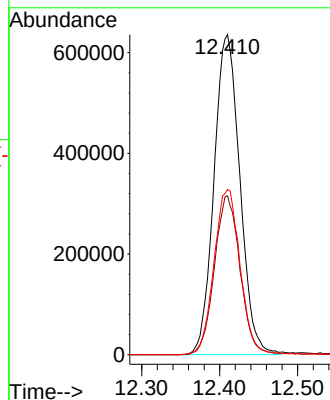
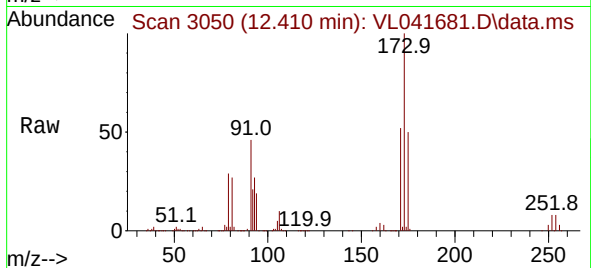
Tgt Ion:173 Resp: 1467565

Ion Ratio Lower Upper

173 100

175 49.4 39.2 58.8

171 52.4 41.7 62.5



#50

4-Methyl-2-Pentanone

Concen: 10.513 ppbv

RT: 8.182 min Scan# 1735

Delta R.T. 0.003 min

Lab File: VL041681.D

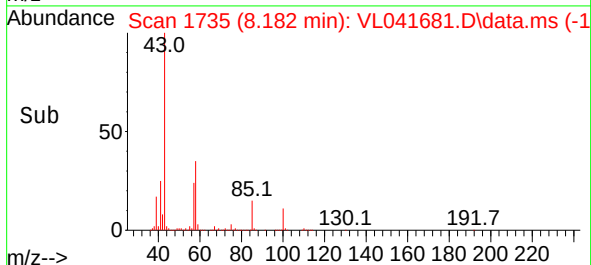
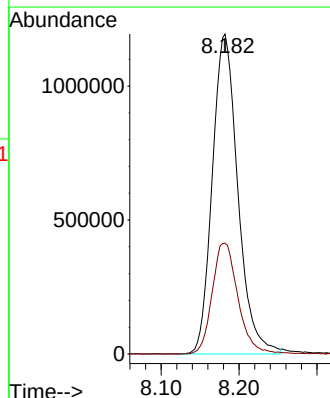
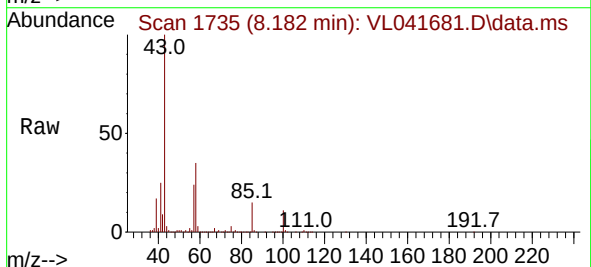
Acq: 7 Nov 2024 14:51

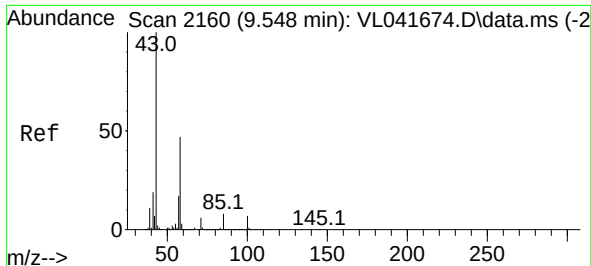
Tgt Ion: 43 Resp: 2720056

Ion Ratio Lower Upper

43 100

58 35.1 27.7 41.5

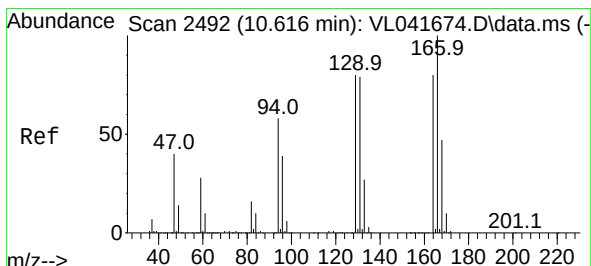
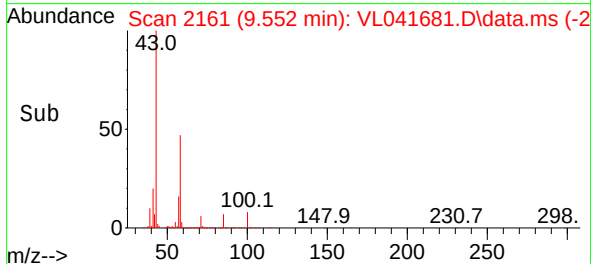
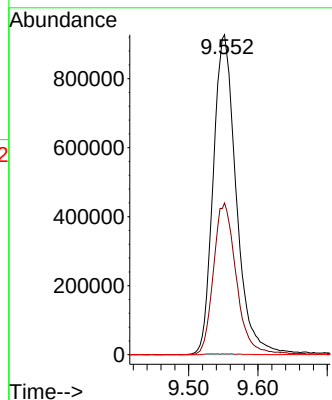
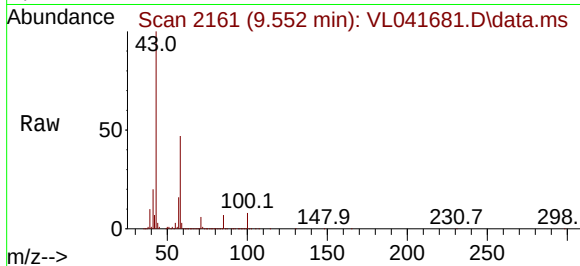




#51  
2-Hexanone  
Concen: 11.315 ppbv  
RT: 9.552 min Scan# 2161  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

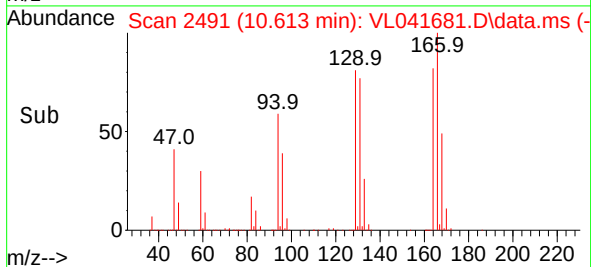
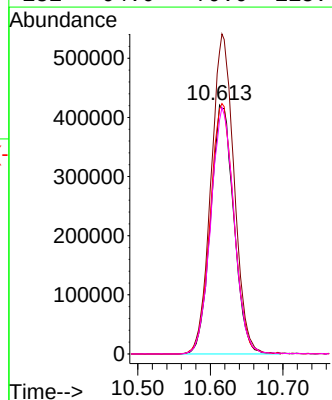
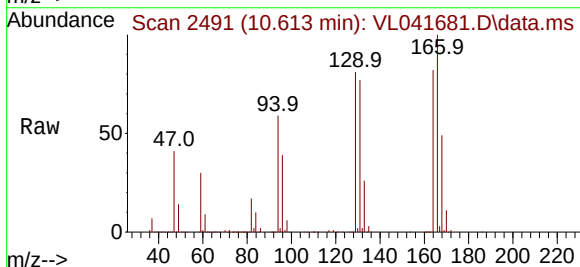
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL110724

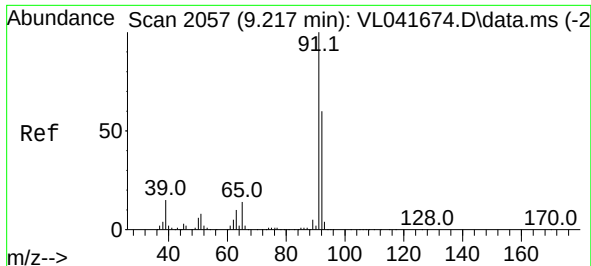
Tgt Ion: 43 Resp: 2131991  
Ion Ratio Lower Upper  
43 100  
58 47.9 37.0 55.6  
98 0.3 0.6 0.8#



#52  
Tetrachloroethene  
Concen: 10.901 ppbv  
RT: 10.613 min Scan# 2491  
Delta R.T. -0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion:164 Resp: 931693  
Ion Ratio Lower Upper  
164 100  
166 121.3 100.2 150.4  
129 98.3 79.7 119.5  
131 94.0 79.0 118.4





#53

Toluene

Concen: 10.997 ppbv

RT: 9.220 min Scan# 2057

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

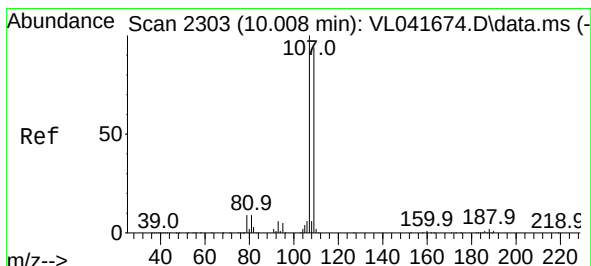
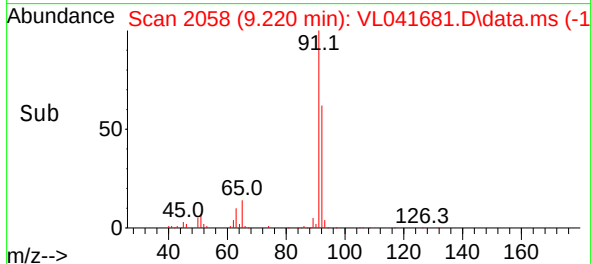
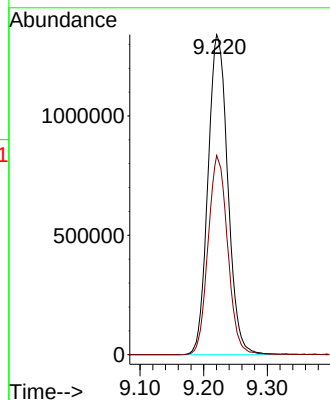
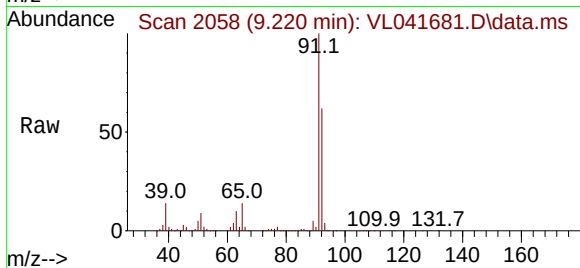
ICVVL110724

Tgt Ion: 91 Resp: 2900278

Ion Ratio Lower Upper

91 100

92 61.6 49.0 73.4



#54

1,2-Dibromoethane

Concen: 11.043 ppbv

RT: 10.011 min Scan# 2304

Delta R.T. 0.003 min

Lab File: VL041681.D

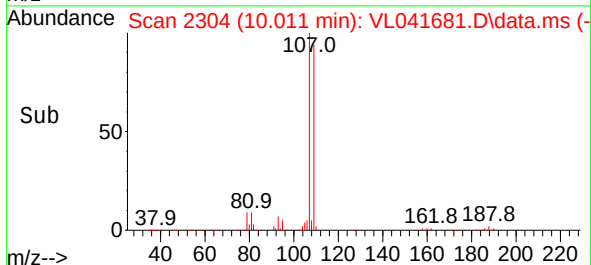
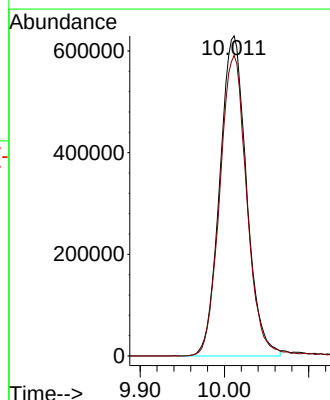
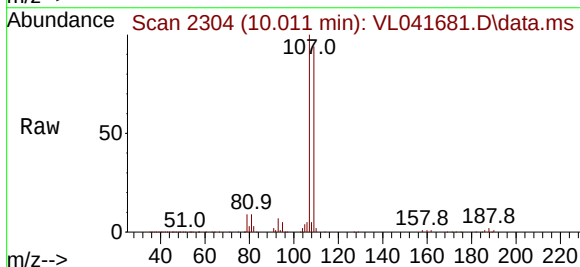
Acq: 7 Nov 2024 14:51

Tgt Ion: 107 Resp: 1383939

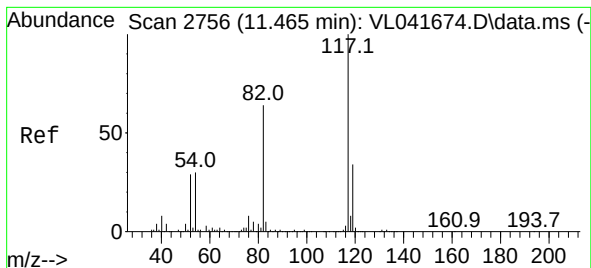
Ion Ratio Lower Upper

107 100

109 93.9 74.9 112.3



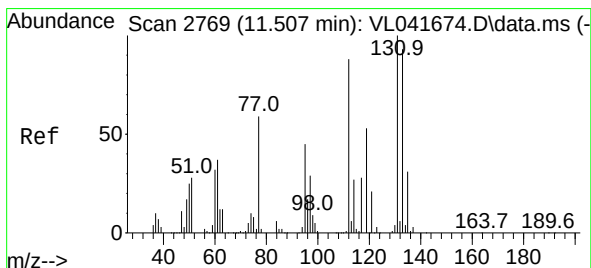
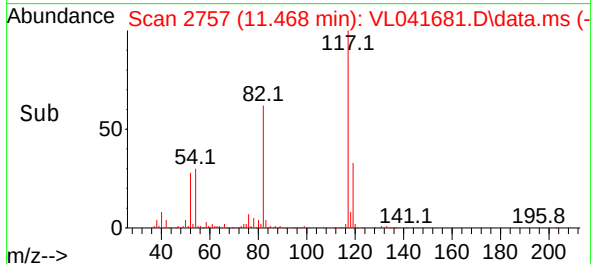
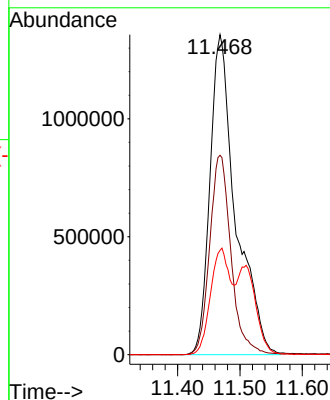
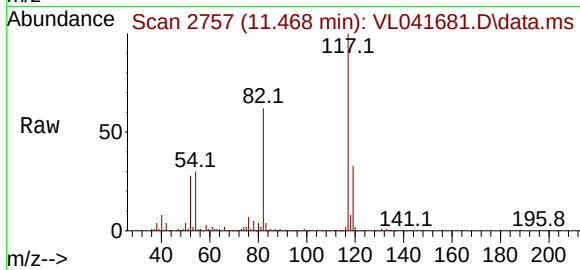




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.468 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

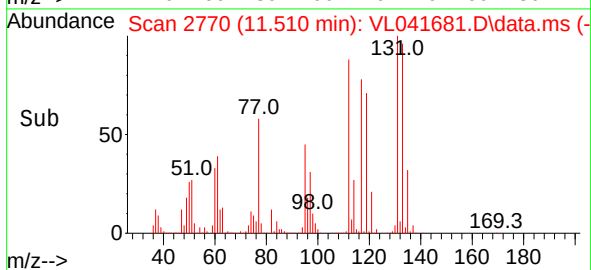
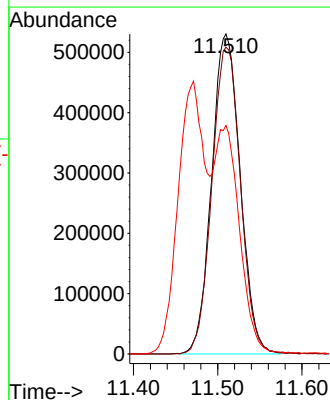
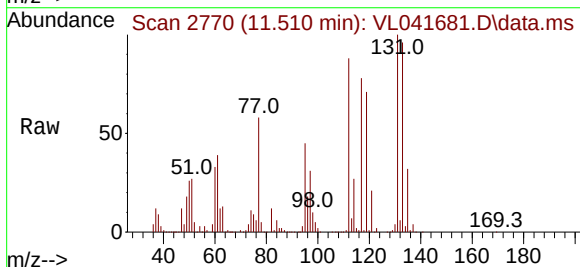
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL110724

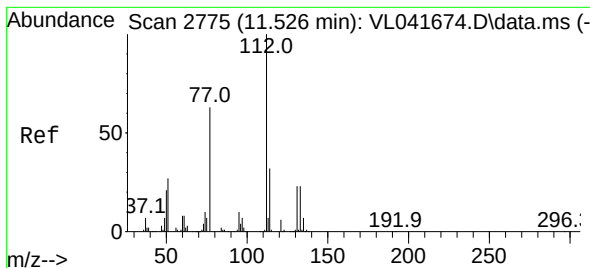
Tgt Ion:117 Resp: 3891746  
Ion Ratio Lower Upper  
117 100  
82 51.9 49.8 74.8  
119 26.0 24.2 36.4



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.778 ppbv  
RT: 11.510 min Scan# 2770  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion:131 Resp: 1248422  
Ion Ratio Lower Upper  
131 100  
133 96.0 76.5 114.7  
119 64.6 49.8 74.8

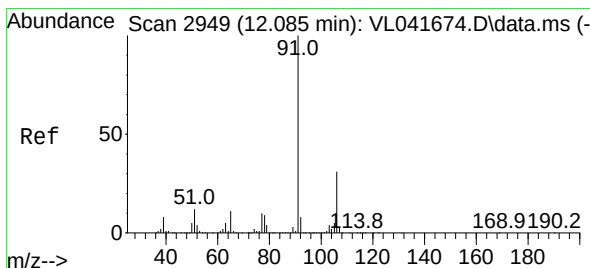
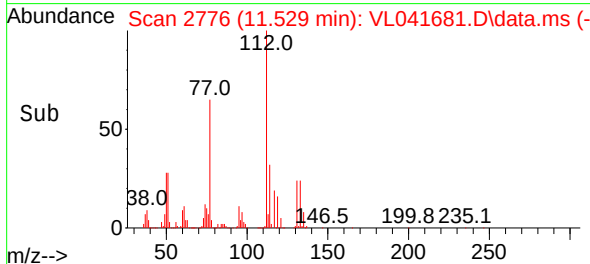
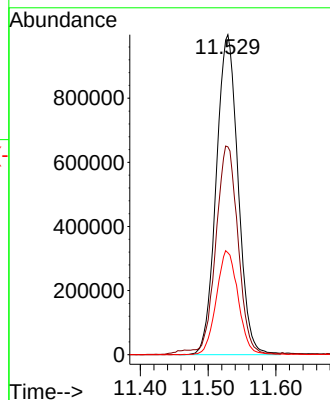
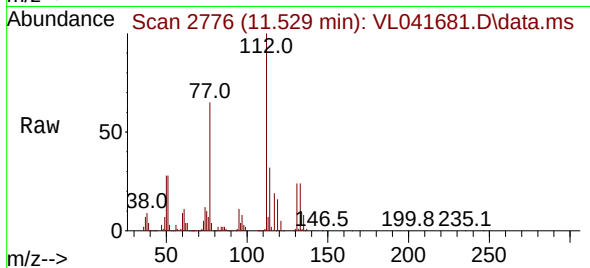




#57  
Chlorobenzene  
Concen: 7.772 ppbv  
RT: 11.529 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

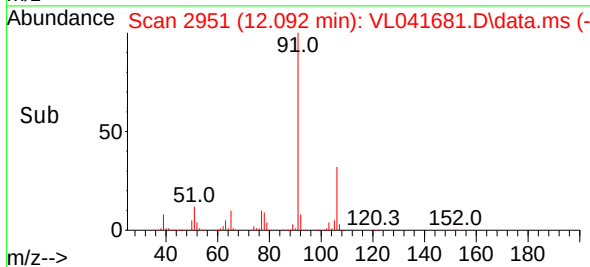
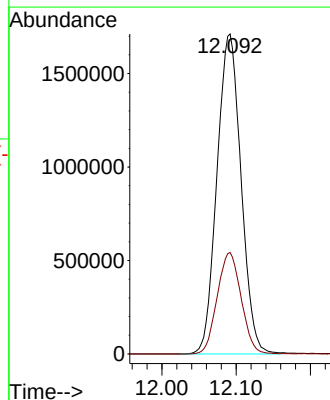
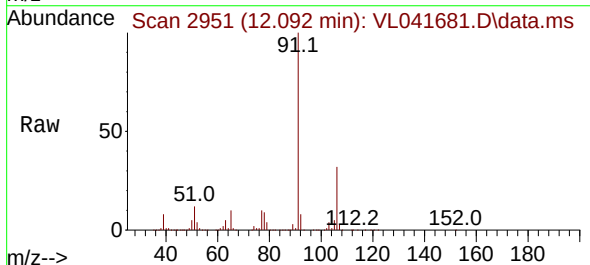
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

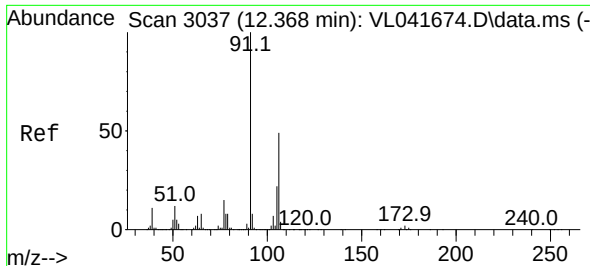
Tgt Ion:112 Resp: 2237120  
Ion Ratio Lower Upper  
112 100  
77 64.7 51.4 77.2  
114 31.8 28.4 34.8



#58  
Ethyl Benzene  
Concen: 9.037 ppbv  
RT: 12.092 min Scan# 2951  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 91 Resp: 3855683  
Ion Ratio Lower Upper  
91 100  
106 31.7 24.9 37.3





#59

m/p-Xylene

Concen: 10.705 ppbv

RT: 12.375 min Scan# 3039

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_1

ClientSampleId :

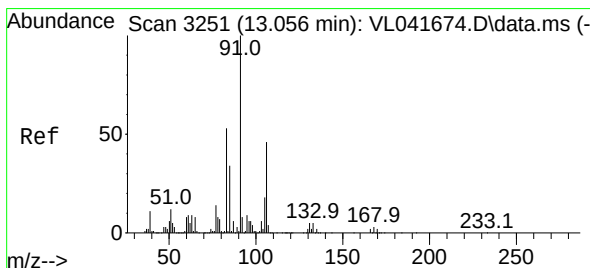
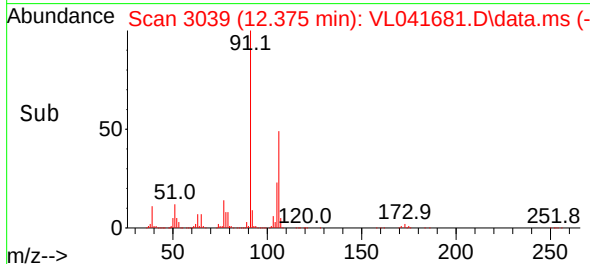
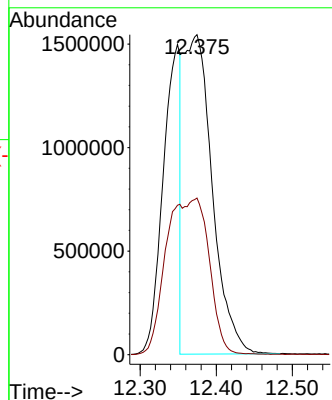
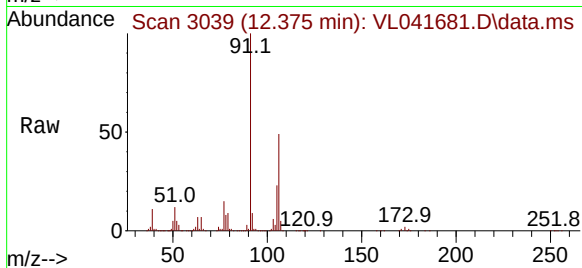
ICVVL110724

Tgt Ion: 91 Resp: 4090254

Ion Ratio Lower Upper

91 100

106 72.6 36.9 55.3#



#60

o-Xylene

Concen: 8.520 ppbv

RT: 13.060 min Scan# 3252

Delta R.T. 0.003 min

Lab File: VL041681.D

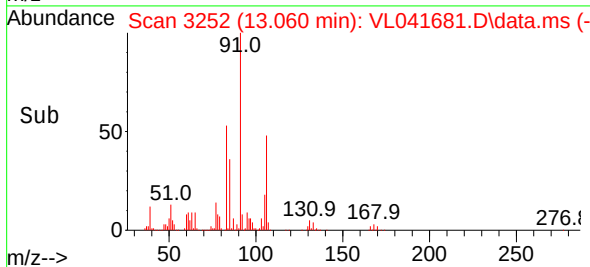
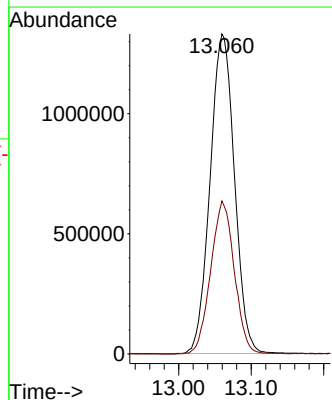
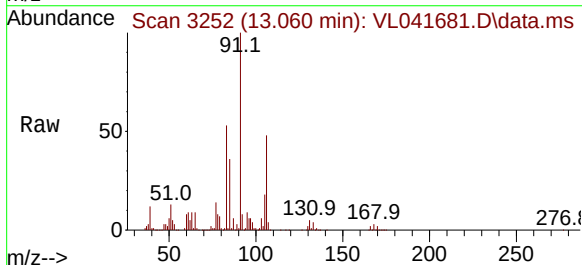
Acq: 7 Nov 2024 14:51

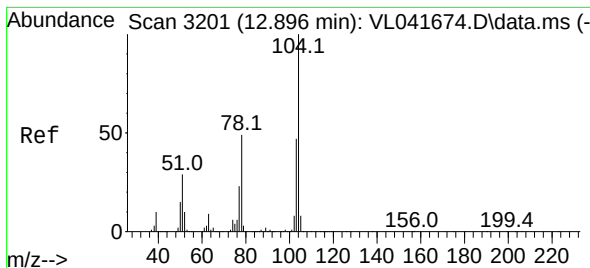
Tgt Ion: 91 Resp: 3103973

Ion Ratio Lower Upper

91 100

106 46.6 23.2 69.6





#61

Styrene

Concen: 10.214 ppbv

RT: 12.896 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

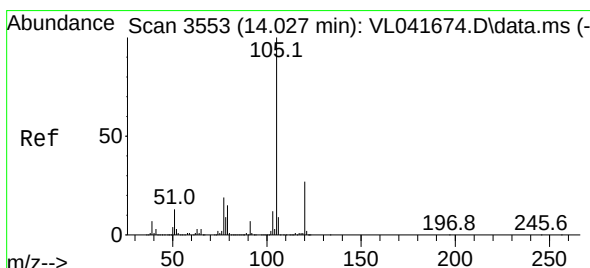
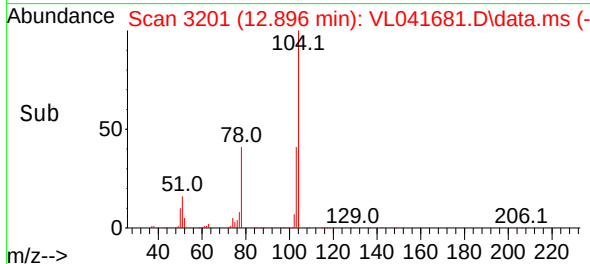
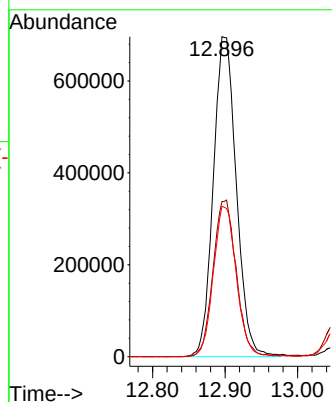
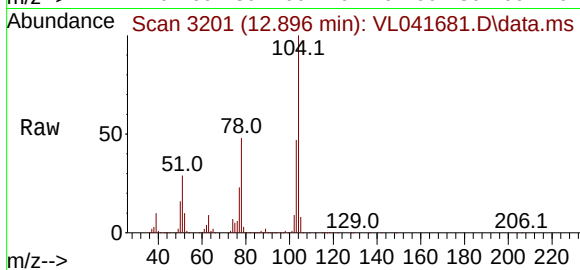
MSVOA\_L

ClientSampleId :

ICVVL110724

Tgt Ion:104 Resp: 1535856

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 104 | 100   |       |       |
| 78  | 49.5  | 39.8  | 59.8  |
| 103 | 47.1  | 37.4  | 56.0  |



#62

Isopropylbenzene

Concen: 8.185 ppbv

RT: 14.031 min Scan# 3554

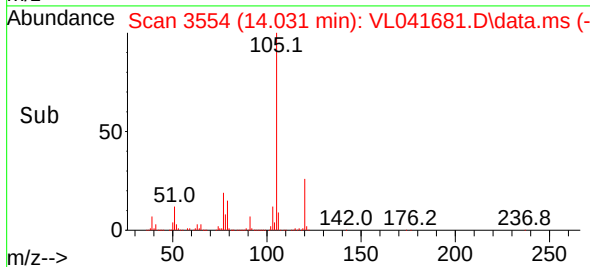
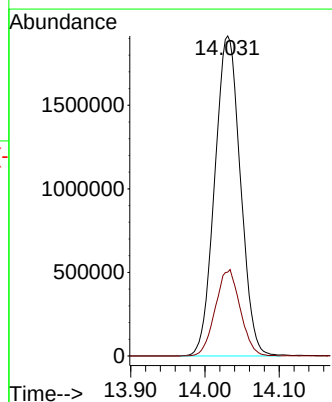
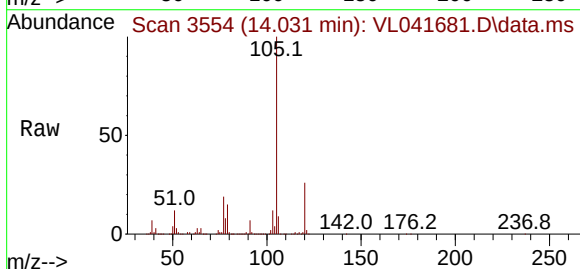
Delta R.T. 0.003 min

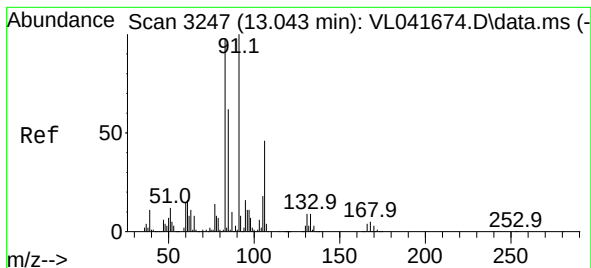
Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Tgt Ion:105 Resp: 4605291

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 26.2  | 21.1  | 31.7  |

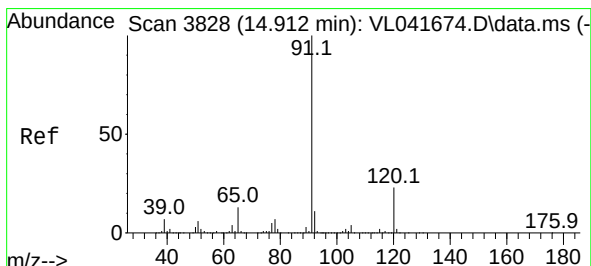
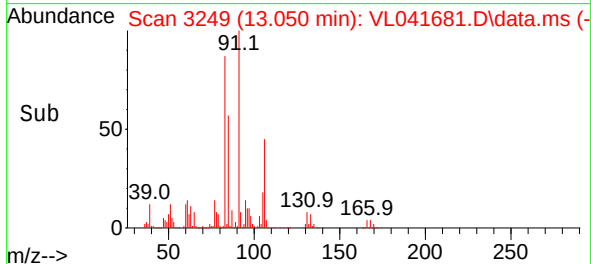
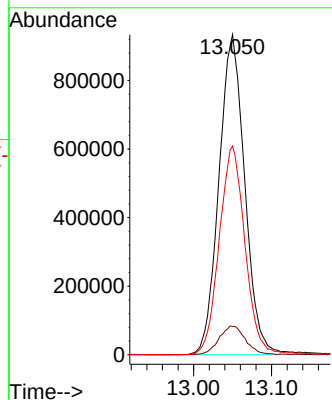
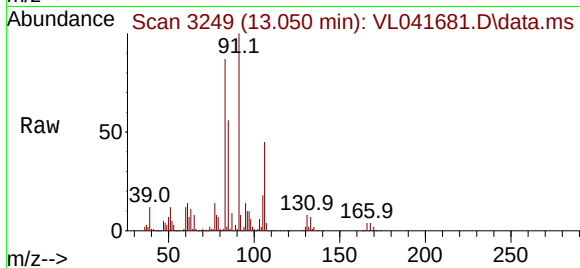




#63  
1,1,2,2-Tetrachloroethane  
Concen: 7.991 ppbv  
RT: 13.050 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

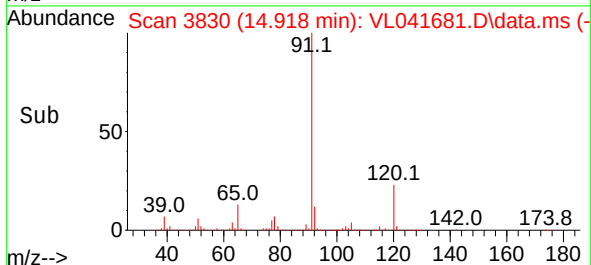
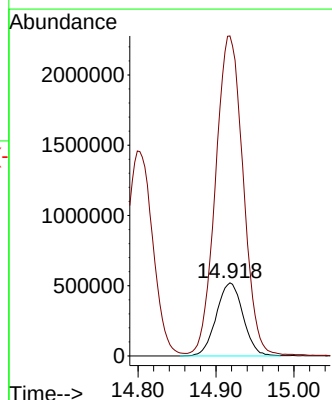
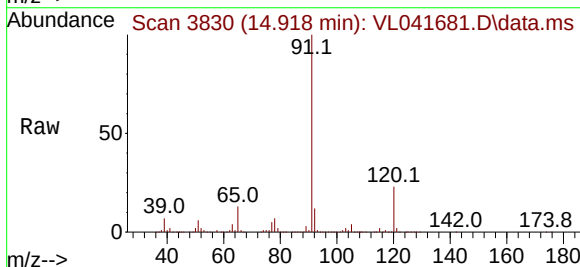
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL110724

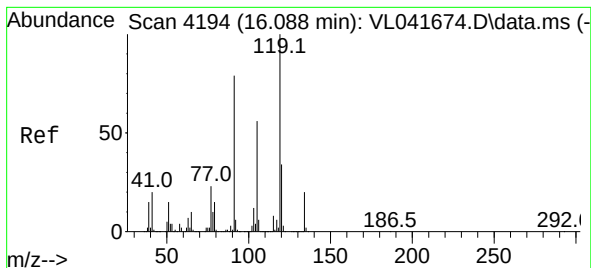
Tgt Ion: 83 Resp: 2141628  
Ion Ratio Lower Upper  
83 100  
131 9.3 4.8 14.3  
85 65.7 32.6 98.0



#64  
n-propylbenzene  
Concen: 8.434 ppbv  
RT: 14.918 min Scan# 3830  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion:120 Resp: 1242370  
Ion Ratio Lower Upper  
120 100  
91 453.8 362.4 543.6

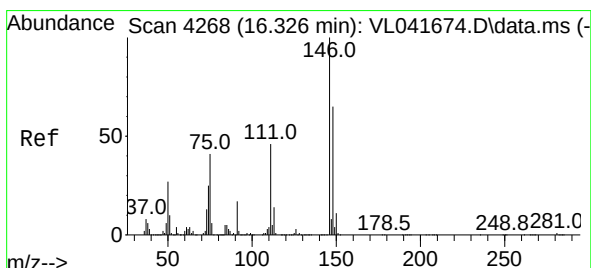
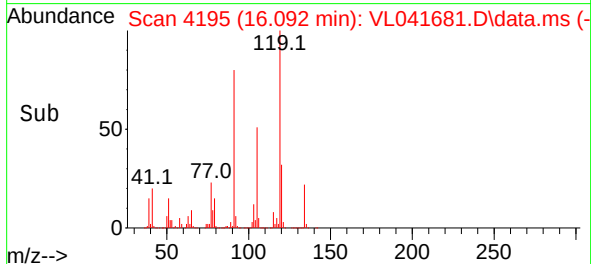
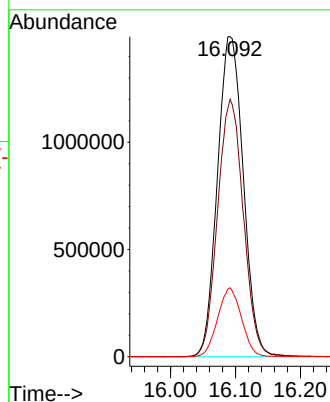
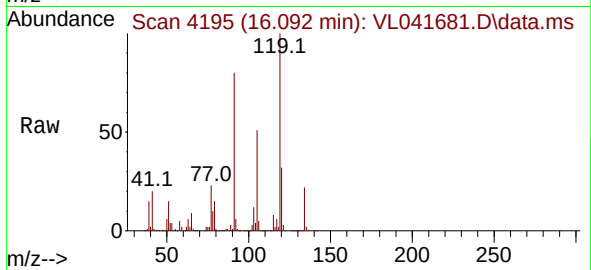




#65  
tert-Butylbenzene  
Concen: 8.163 ppbv  
RT: 16.092 min Scan# 4195  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

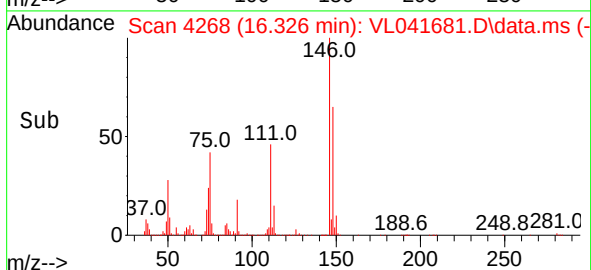
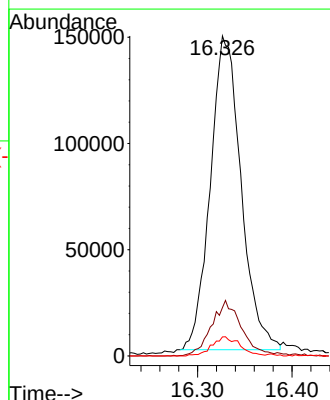
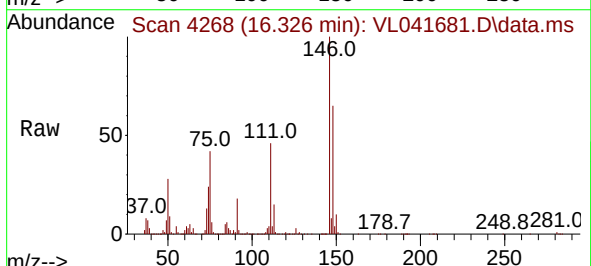
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

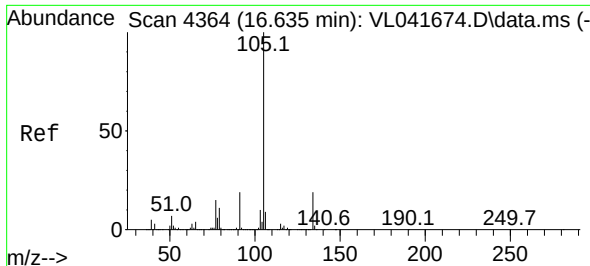
Tgt Ion:119 Resp: 4128160  
Ion Ratio Lower Upper  
119 100  
91 80.0 64.3 96.5  
134 19.9 15.8 23.8



#66  
Benzyl Chloride  
Concen: 8.572 ppbv  
RT: 16.326 min Scan# 4268  
Delta R.T. 0.000 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 91 Resp: 333479  
Ion Ratio Lower Upper  
91 100  
126 17.7 13.8 20.6  
128 5.8 4.3 6.5





#67

sec-Butylbenzene

Concen: 8.097 ppbv

RT: 16.638 min Scan# 4365

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_1

ClientSampleId :

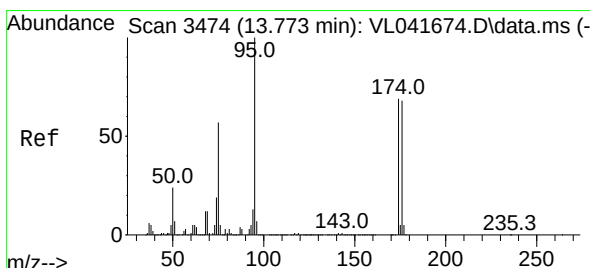
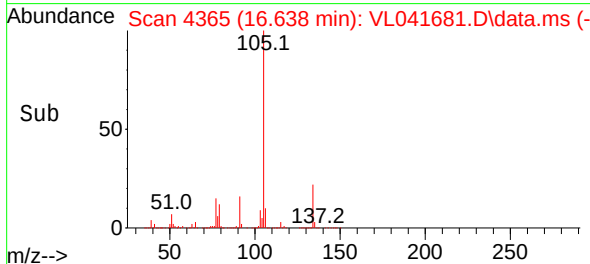
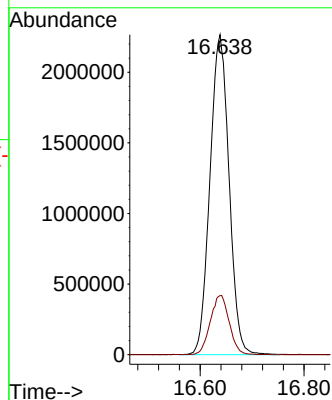
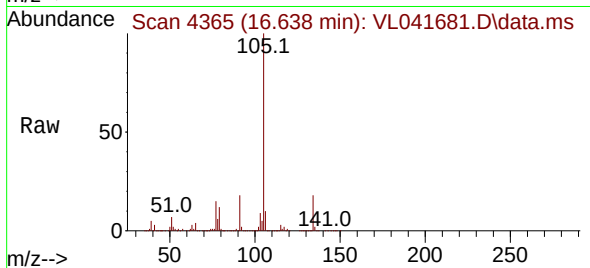
ICVVL110724

Tgt Ion:105 Resp: 5771671

Ion Ratio Lower Upper

105 100

134 18.4 14.6 22.0



#68

1-Bromo-4-Fluorobenzene

Concen: 8.316 ppbv

RT: 13.780 min Scan# 3476

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

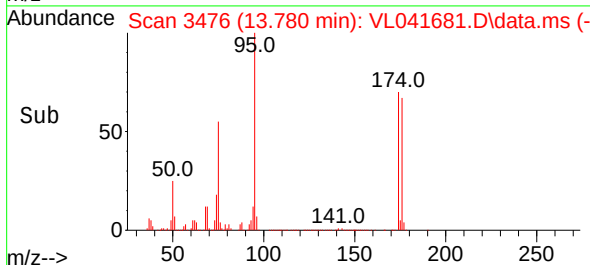
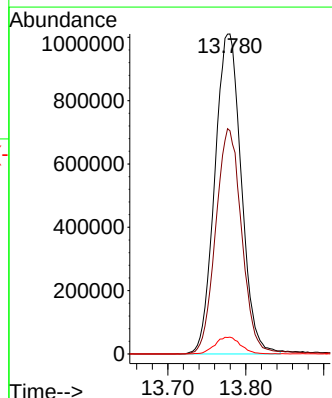
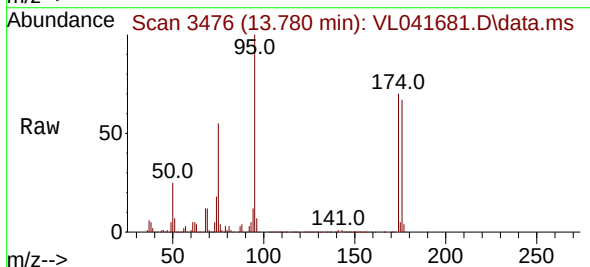
Tgt Ion: 95 Resp: 2384630

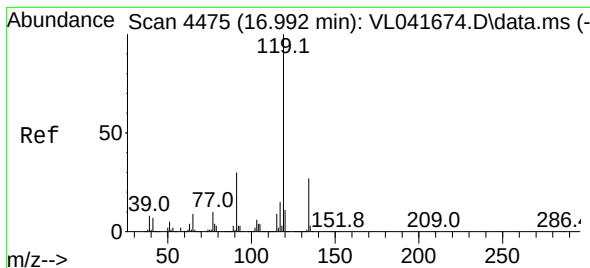
Ion Ratio Lower Upper

95 100

174 69.7 55.6 83.4

175 5.2 4.2 6.2

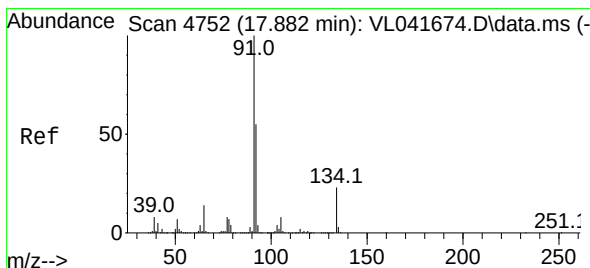
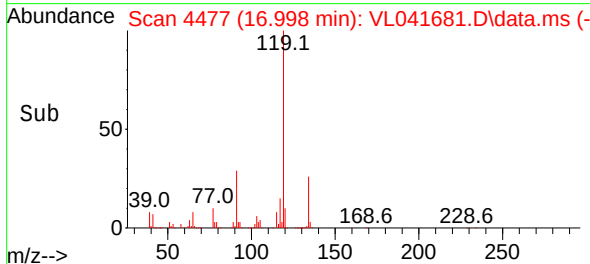
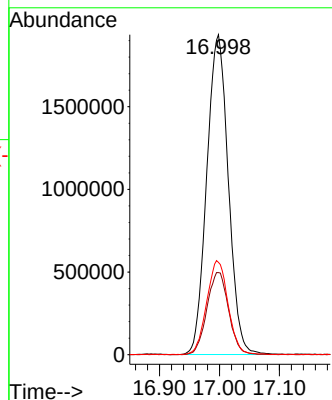
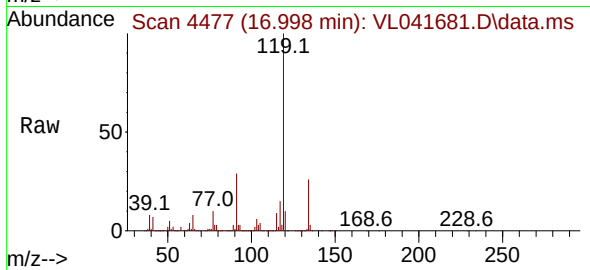




#69  
p-Isopropyltoluene  
Concen: 8.401 ppbv  
RT: 16.998 min Scan# 4477  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

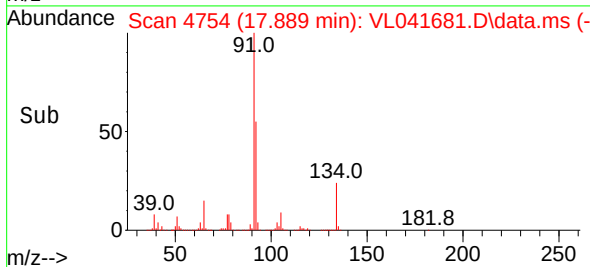
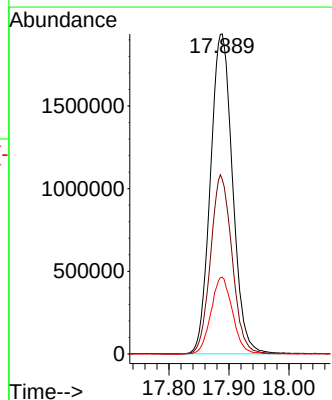
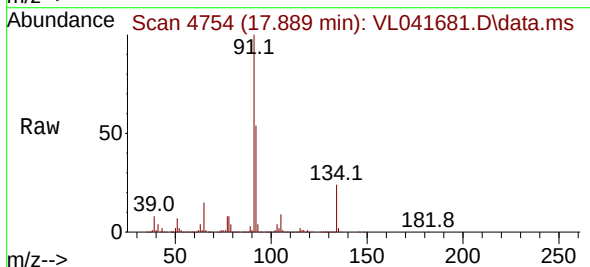
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL110724

Tgt Ion:119 Resp: 4841188  
Ion Ratio Lower Upper  
119 100  
134 25.9 20.8 31.2  
91 29.0 23.2 34.8

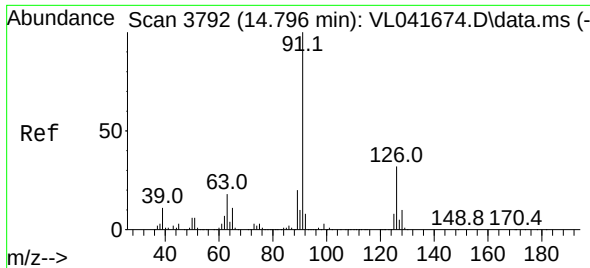


#70  
n-Butylbenzene  
Concen: 8.415 ppbv  
RT: 17.889 min Scan# 4754  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 91 Resp: 4961330  
Ion Ratio Lower Upper  
91 100  
92 54.5 43.3 64.9  
134 23.3 18.4 27.6



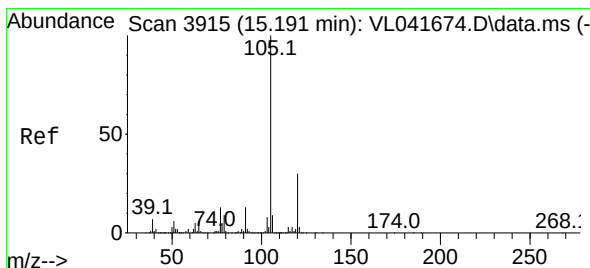
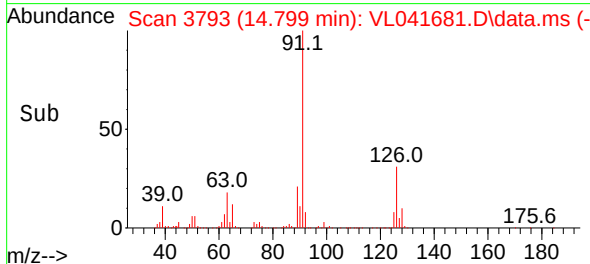
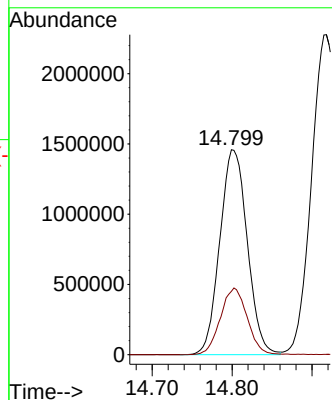
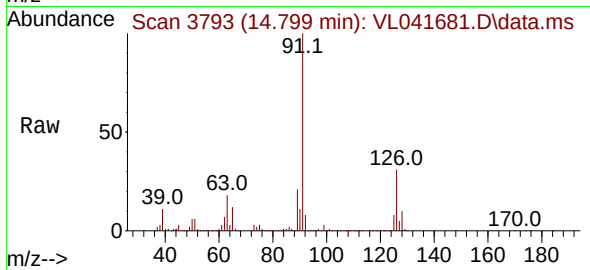




#71  
2-Chlorotoluene  
Concen: 8.551 ppbv  
RT: 14.799 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

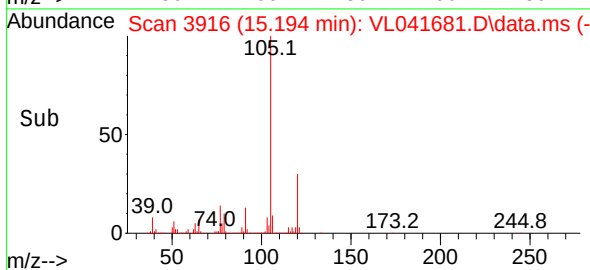
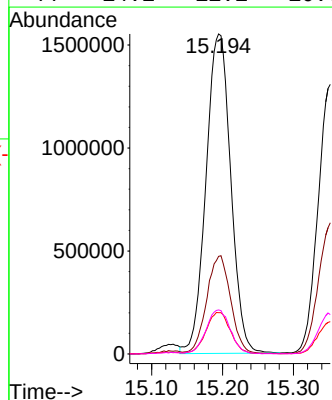
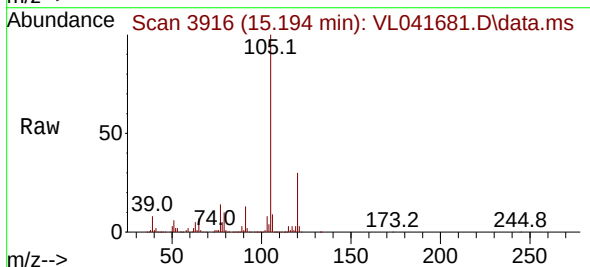
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL110724

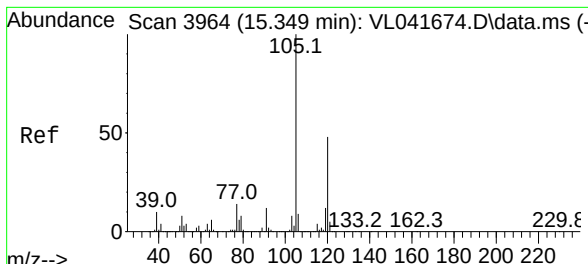
Tgt Ion: 91 Resp: 3477879  
Ion Ratio Lower Upper  
91 100  
126 32.1 12.8 51.0



#72  
4-Ethyltoluene  
Concen: 8.890 ppbv  
RT: 15.194 min Scan# 3916  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion: 105 Resp: 3765544  
Ion Ratio Lower Upper  
105 100  
120 30.8 25.0 37.4  
91 12.7 10.6 15.8  
77 14.1 11.1 16.7



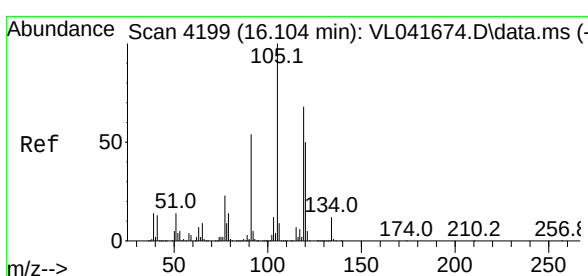
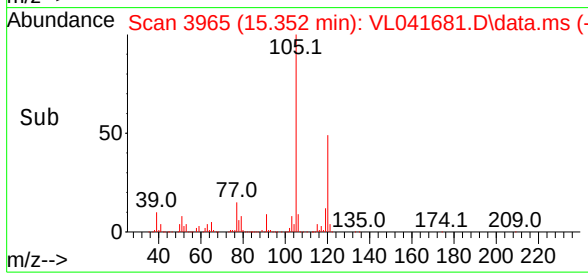
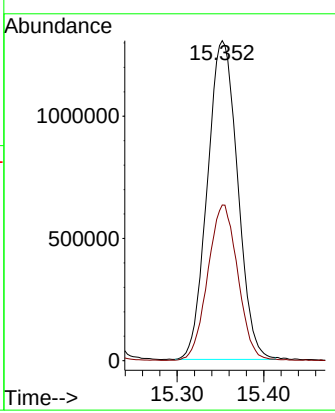
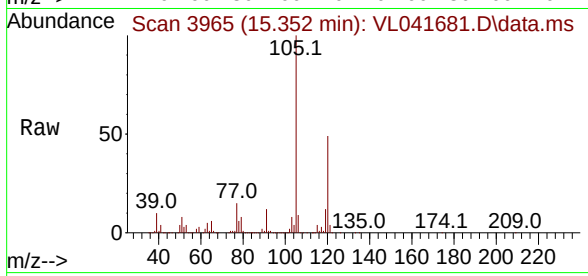


#73  
 1,3,5-Trimethylbenzene  
 Concen: 8.514 ppbv  
 RT: 15.352 min Scan# 3965  
 Delta R.T. 0.003 min  
 Lab File: VL041681.D  
 Acq: 7 Nov 2024 14:51

Instrument : MSVOA\_1  
 ClientSampleId : ICVVL110724

Tgt Ion:105 Resp: 3164645

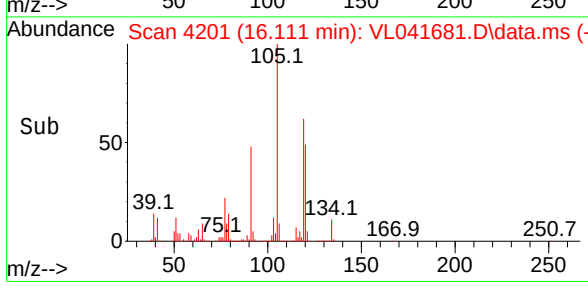
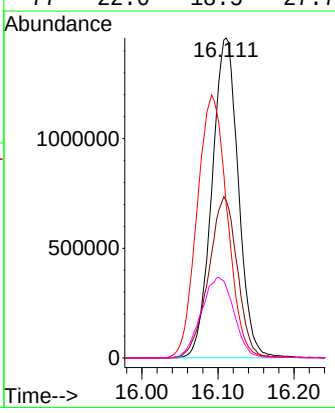
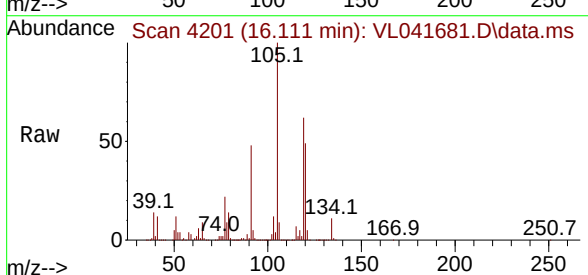
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 48.7  | 38.4  | 57.6  |

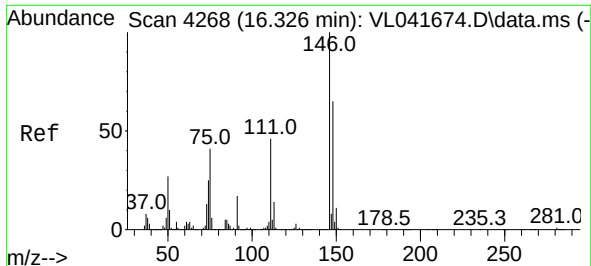


#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.129 ppbv  
 RT: 16.111 min Scan# 4201  
 Delta R.T. 0.006 min  
 Lab File: VL041681.D  
 Acq: 7 Nov 2024 14:51

Tgt Ion:105 Resp: 3509579

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 48.9  | 39.8  | 59.8  |
| 91  | 47.4  | 43.2  | 64.8  |
| 77  | 22.0  | 18.5  | 27.7  |

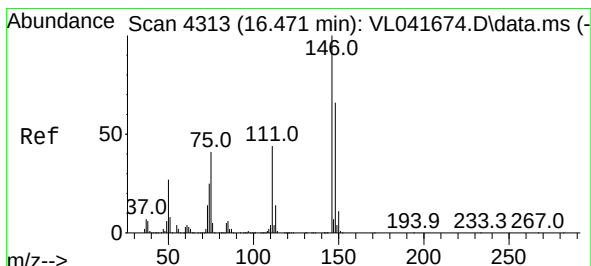
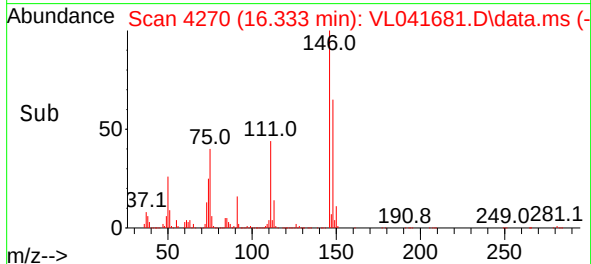
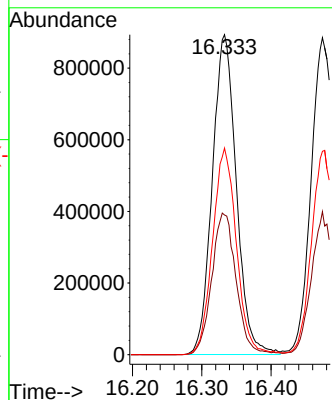
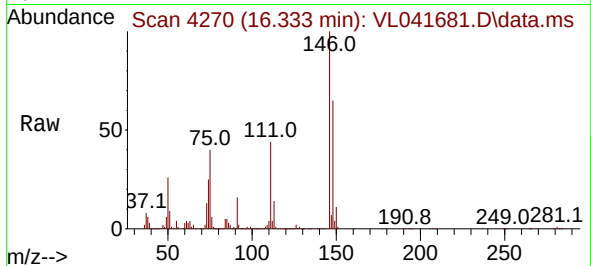




#75  
1,3-Dichlorobenzene  
Concen: 8.052 ppbv  
RT: 16.333 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

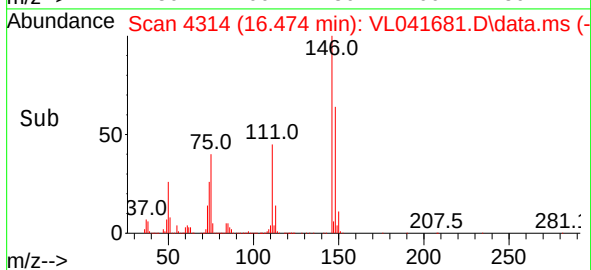
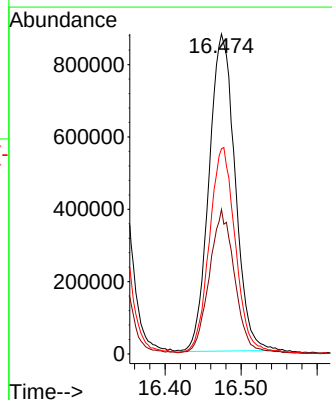
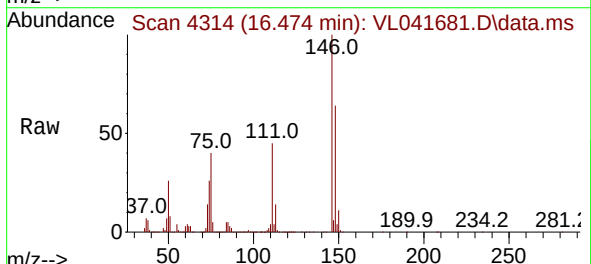
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL110724

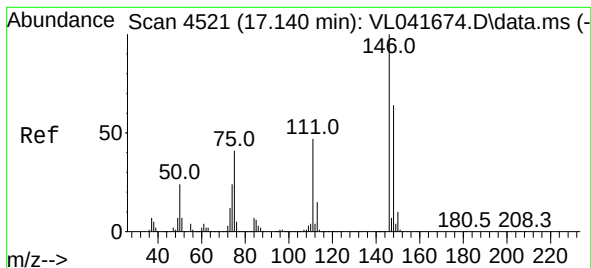
Tgt Ion:146 Resp: 2153016  
Ion Ratio Lower Upper  
146 100  
111 45.1 22.8 68.3  
148 64.3 32.4 97.0



#76  
1,4-Dichlorobenzene  
Concen: 8.093 ppbv  
RT: 16.474 min Scan# 4314  
Delta R.T. 0.003 min  
Lab File: VL041681.D  
Acq: 7 Nov 2024 14:51

Tgt Ion:146 Resp: 2087766  
Ion Ratio Lower Upper  
146 100  
111 44.7 22.1 66.3  
148 65.8 33.3 99.8





#77

1,2-Dichlorobenzene

Concen: 7.841 ppbv

RT: 17.146 min Scan# 4

Delta R.T. 0.006 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL110724

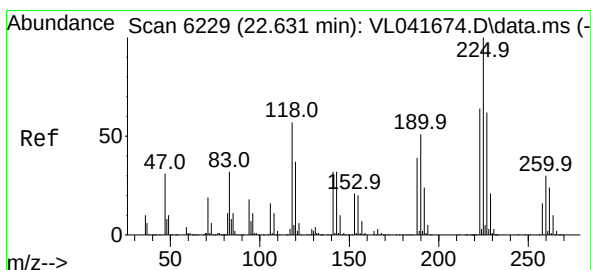
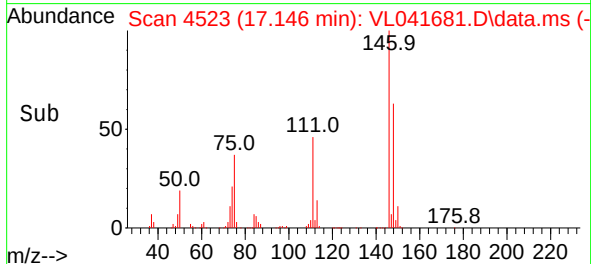
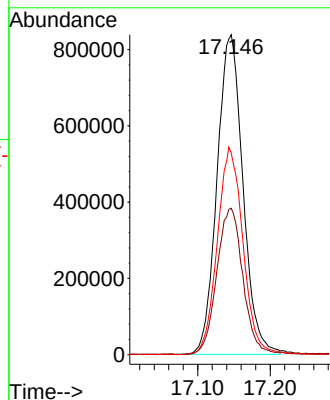
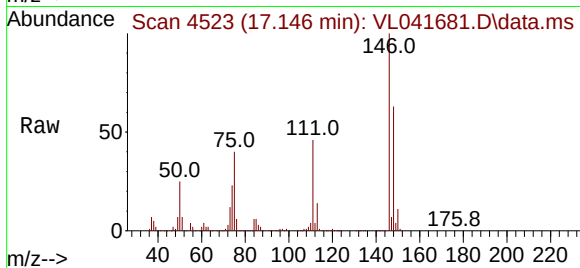
Tgt Ion:146 Resp: 2076942

Ion Ratio Lower Upper

146 100

111 0.0 23.4 70.3#

148 64.3 32.1 96.5



#78

Hexachloro-1,3-Butadiene

Concen: 6.591 ppbv

RT: 22.635 min Scan# 6230

Delta R.T. 0.003 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

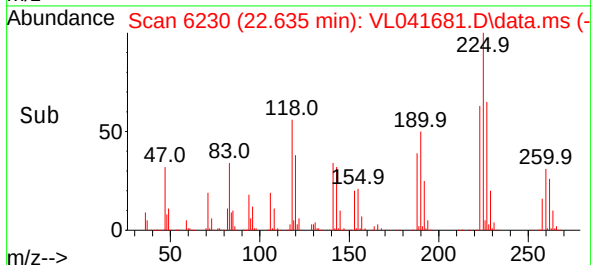
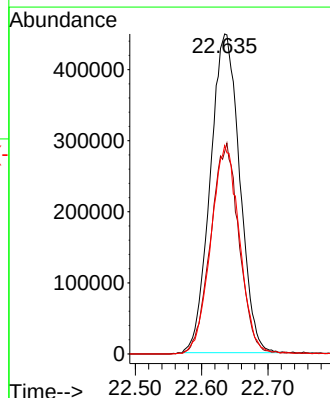
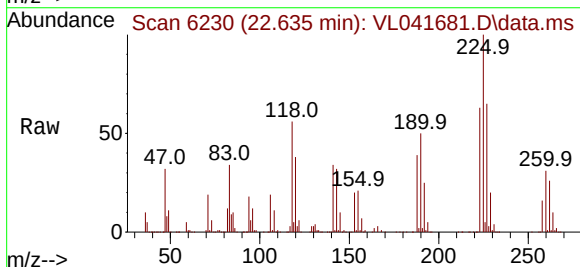
Tgt Ion:225 Resp: 1380777

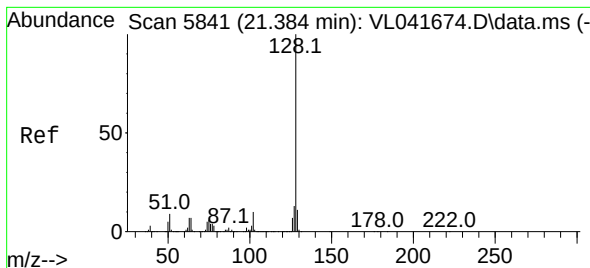
Ion Ratio Lower Upper

225 100

223 64.4 51.1 76.7

227 64.3 51.3 76.9





#79

Naphthalene

Concen: 10.332 ppbv

RT: 21.384 min Scan# 5841

Delta R.T. 0.000 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL110724

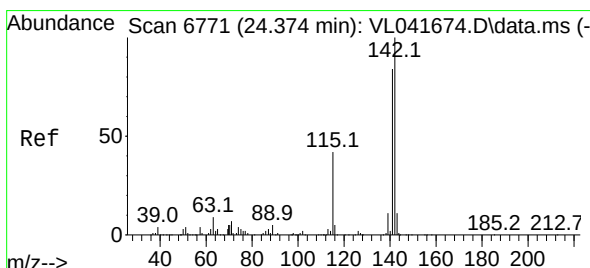
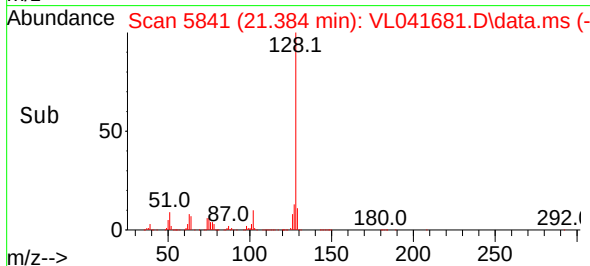
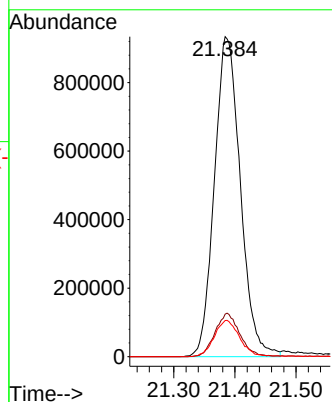
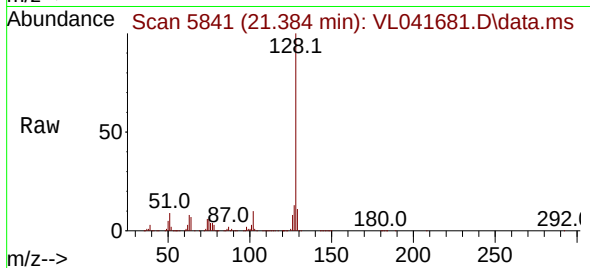
Tgt Ion:128 Resp: 2753473

Ion Ratio Lower Upper

128 100

127 13.3 10.5 15.7

129 11.3 8.7 13.1



#80

Naphthalene, 2-methyl-

Concen: 10.026 ppbv

RT: 24.374 min Scan# 6771

Delta R.T. 0.000 min

Lab File: VL041681.D

Acq: 7 Nov 2024 14:51

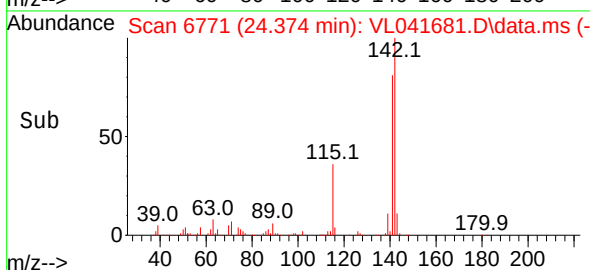
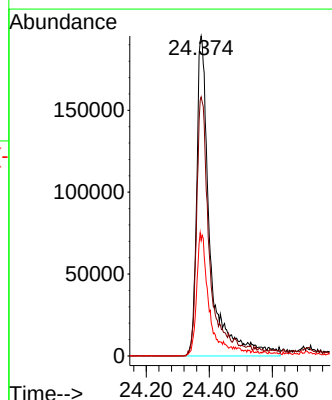
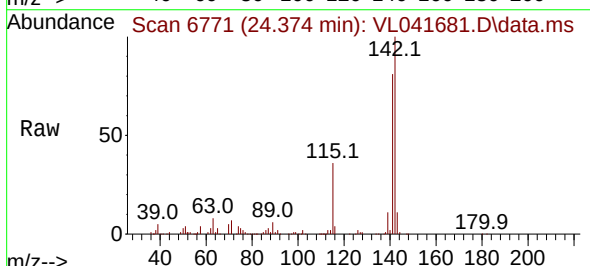
Tgt Ion:142 Resp: 582436

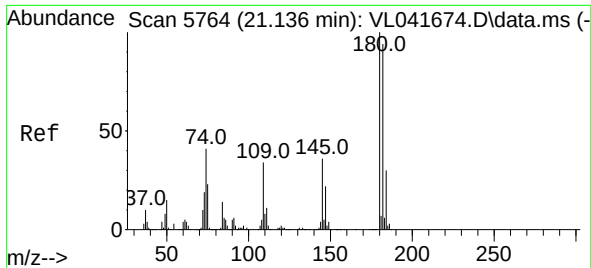
Ion Ratio Lower Upper

142 100

141 79.2 68.1 102.1

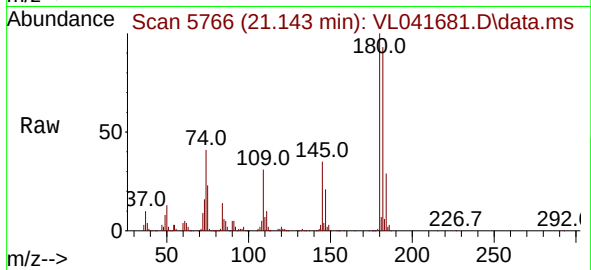
115 36.8 33.1 49.7



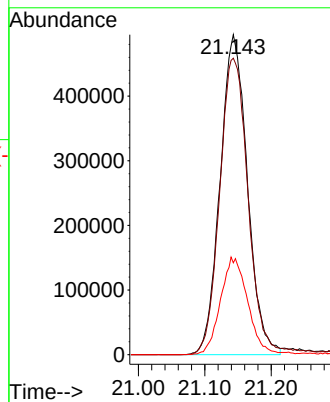
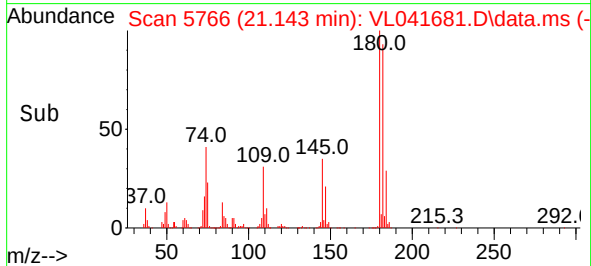


#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.436 ppbv  
 RT: 21.143 min Scan# 51  
 Delta R.T. 0.006 min  
 Lab File: VL041681.D  
 Acq: 7 Nov 2024 14:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL110724



Tgt Ion:180 Resp: 1413820  
 Ion Ratio Lower Upper  
 180 100  
 182 97.5 78.2 117.2  
 184 31.2 25.0 37.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112024\  
 Data File : VL041697.D  
 Acq On : 20 Nov 2024 8:09  
 Operator : SY/MD  
 Sample : VSTDC0010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDC0010

Quant Time: Nov 21 05:07:41 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.205  | 49   | 1123466  | 10.000 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 6.668  | 114  | 3154537  | 10.000 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 11.481 | 117  | 3151187  | 10.000 | ppbv  | 0.02     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.786 95 2309915 9.949 ppbv 0.01  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.500%

#### Target Compounds

|                               |       |     |         |        | Qvalue   |
|-------------------------------|-------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane    | 2.739 | 85  | 2140449 | 10.541 | ppbv 99  |
| 3) Chlorodifluoromethane      | 2.684 | 51  | 1415484 | 9.670  | ppbv 99  |
| 4) Chloromethane              | 2.822 | 50  | 765196  | 9.869  | ppbv 97  |
| 5) Vinyl Chloride             | 2.931 | 62  | 741512  | 10.631 | ppbv 98  |
| 6) Bromomethane               | 3.131 | 94  | 384455  | 10.391 | ppbv 99  |
| 7) Chloroethane               | 3.208 | 64  | 262500  | 10.312 | ppbv 99  |
| 8) Dichlorotetrafluoroethane  | 2.867 | 85  | 1772200 | 9.777  | ppbv 99  |
| 9) Propene                    | 2.703 | 41  | 632787  | 9.921  | ppbv 99  |
| 10) Heptane                   | 7.590 | 43  | 1565567 | 10.954 | ppbv 100 |
| 11) Trichlorofluoromethane    | 3.575 | 101 | 1779018 | 10.058 | ppbv 99  |
| 12) 1,1,2-Trichlorotrifluo... | 4.076 | 101 | 1291192 | 10.044 | ppbv 100 |
| 13) Ethanol                   | 3.256 | 45  | 27249   | 6.977  | ppbv 76  |
| 14) Bromoethene               | 3.375 | 108 | 532947  | 10.312 | ppbv 97  |
| 15) Acetone                   | 3.478 | 43  | 1367331 | 9.889  | ppbv 100 |
| 16) 1,3-Butadiene             | 2.996 | 39  | 749348  | 10.741 | ppbv 98  |
| 17) tert-Butyl alcohol        | 3.890 | 59  | 1234931 | 10.178 | ppbv 100 |
| 18) 1,1-Dichloroethene        | 3.890 | 96  | 587002  | 10.411 | ppbv 96  |
| 19) Isopropyl Alcohol         | 3.587 | 45  | 676609  | 10.238 | ppbv 98  |
| 20) Methylene Chloride        | 3.944 | 84  | 485339  | 9.539  | ppbv 97  |
| 21) Allyl Chloride            | 4.009 | 41  | 920766  | 10.777 | ppbv 99  |
| 22) trans-1,2-Dichloroethene  | 4.459 | 96  | 595977  | 10.631 | ppbv 97  |
| 23) Vinyl Acetate             | 4.639 | 43  | 635436  | 10.425 | ppbv 98  |
| 24) 1,1-Dichloroethane        | 4.574 | 63  | 1289373 | 10.304 | ppbv 99  |
| 25) Ethyl Acetate             | 5.214 | 43  | 2953915 | 10.321 | ppbv 100 |
| 26) Hexane                    | 5.224 | 57  | 1161873 | 10.567 | ppbv 99  |
| 27) Carbon Disulfide          | 4.134 | 76  | 1447099 | 11.714 | ppbv 100 |
| 28) Methyl tert-Butyl Ether   | 4.597 | 73  | 696845  | 9.841  | ppbv 99  |
| 29) Chloroform                | 5.288 | 83  | 1838047 | 10.127 | ppbv 99  |
| 30) Cyclohexane               | 6.616 | 84  | 996570  | 10.644 | ppbv 98  |
| 31) cis-1,2-Dichloroethene    | 5.092 | 61  | 1122533 | 10.612 | ppbv 98  |
| 32) 1,1,1-Trichloroethane     | 6.015 | 97  | 1767346 | 10.673 | ppbv 99  |
| 34) 2-Butanone                | 4.796 | 43  | 1528409 | 9.731  | ppbv 99  |
| 35) Carbon Tetrachloride      | 6.507 | 117 | 1867710 | 11.222 | ppbv 99  |
| 36) Benzene                   | 6.385 | 78  | 2472710 | 10.579 | ppbv 97  |
| 37) 1,2-Dichloroethane        | 5.819 | 62  | 1372788 | 10.411 | ppbv 99  |
| 38) Trichloroethene           | 7.304 | 130 | 1003555 | 11.179 | ppbv 98  |
| 39) 1,2-Dichloropropane       | 7.089 | 63  | 955590  | 10.346 | ppbv 97  |
| 40) 1,4-Dioxane               | 7.298 | 88  | 365570  | 11.031 | ppbv 97  |
| 41) Tetrahydrofuran           | 5.568 | 42  | 989840  | 11.035 | ppbv 100 |
| 42) Bromodichloromethane      | 7.262 | 83  | 1959114 | 10.692 | ppbv 99  |
| 43) Methyl Methacrylate       | 7.488 | 69  | 946899  | 11.538 | ppbv 98  |
| 44) 2,2,4-Trimethylpentane    | 7.340 | 57  | 4173715 | 10.542 | ppbv 100 |
| 45) t-1,3-Dichloropropene     | 8.725 | 75  | 949613  | 12.663 | ppbv 98  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112024\  
 Data File : VL041697.D  
 Acq On : 20 Nov 2024 8:09  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Nov 21 05:07:41 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 01:01:00 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.156  | 75   | 1284127  | 11.922 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 8.915  | 97   | 1022170  | 10.225 | ppbv   | 98       |
| 48) Dibromochloromethane      | 9.725  | 129  | 1691178  | 11.129 | ppbv   | 99       |
| 49) Bromoform                 | 12.420 | 173  | 1497113  | 11.514 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.192  | 43   | 2640409  | 10.950 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.561  | 43   | 2067266  | 11.773 | ppbv   | 100      |
| 52) Tetrachloroethene         | 10.629 | 164  | 902967   | 11.336 | ppbv   | 98       |
| 53) Toluene                   | 9.233  | 91   | 2828799  | 11.509 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.024 | 107  | 1372700  | 11.753 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 11.523 | 131  | 1283659  | 9.877  | ppbv   | 100      |
| 57) Chlorobenzene             | 11.539 | 112  | 2247475  | 9.643  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.102 | 91   | 3843108  | 11.125 | ppbv   | 99       |
| 59) m/p-Xylene                | 12.384 | 91   | 3461250  | 11.188 | ppbv # | 38       |
| 60) o-Xylene                  | 13.073 | 91   | 3175724  | 10.765 | ppbv   | 99       |
| 61) Styrene                   | 12.909 | 104  | 1525338  | 12.528 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.044 | 105  | 4683267  | 10.279 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.060 | 83   | 2214634  | 10.206 | ppbv   | 99       |
| 64) n-propylbenzene           | 14.931 | 120  | 1265758  | 10.613 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.101 | 119  | 4189774  | 10.232 | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.342 | 91   | 370716   | 11.768 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 16.648 | 105  | 5882804  | 10.193 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.008 | 119  | 4911348  | 10.526 | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.899 | 91   | 5076678  | 10.634 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 14.812 | 91   | 3541658  | 10.754 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.204 | 105  | 3768131  | 10.987 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.362 | 105  | 3230569  | 10.734 | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.121 | 105  | 3599066  | 10.295 | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 16.346 | 146  | 2220877  | 10.258 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.487 | 146  | 2183586  | 10.453 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.156 | 146  | 2149012  | 10.020 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.648 | 225  | 1424868  | 8.400  | ppbv   | 100      |
| 79) Naphthalene               | 21.400 | 128  | 2807004  | 13.008 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.387 | 142  | 555593   | 11.811 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.153 | 180  | 1441690  | 10.624 | ppbv   | 99       |

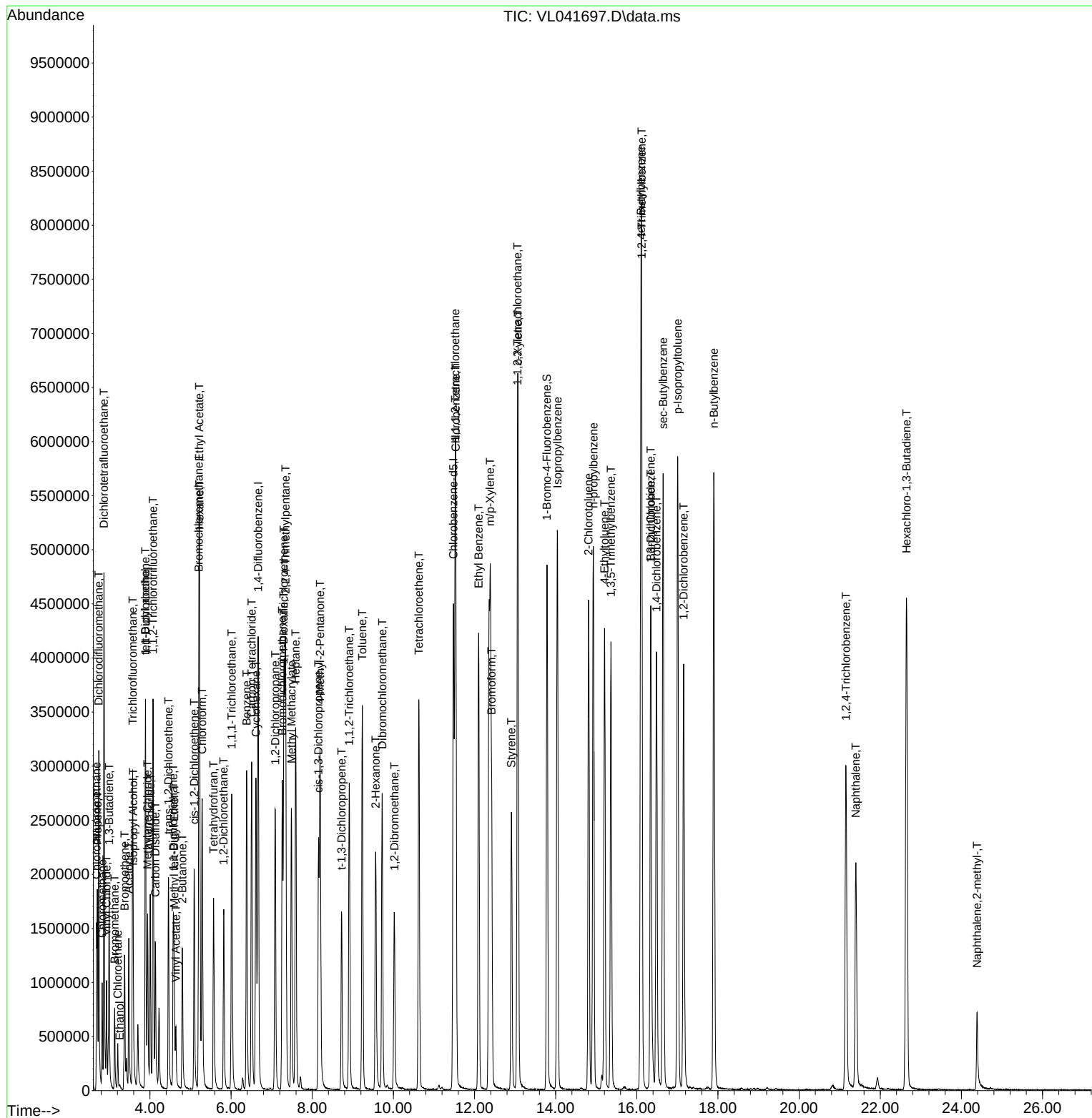
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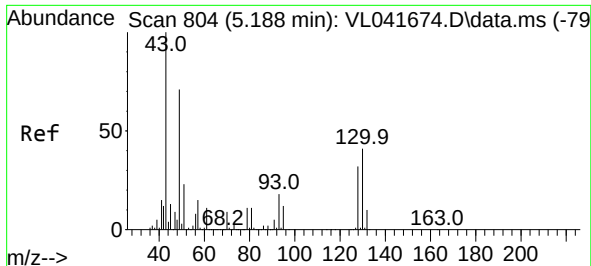


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Operator  : SY/MD  
Sample    : VSTDCCC010  
Misc      : 400mL/MSVOA_L  
ALS Vial  : 1    Sample Multiplier: 1
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**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDCCC010

Quant Time: Nov 21 05:07:41 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 01:01:00 2024  
Response via : Initial Calibration

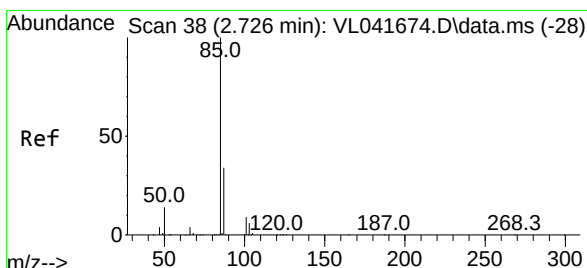
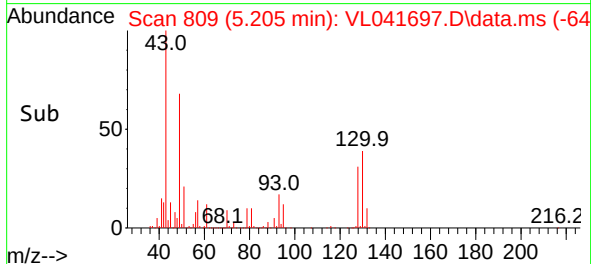
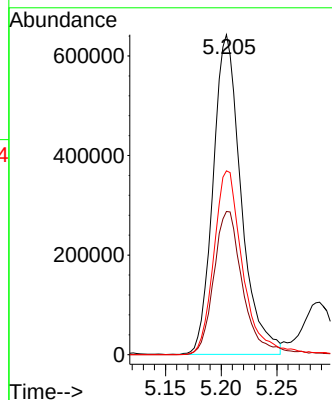
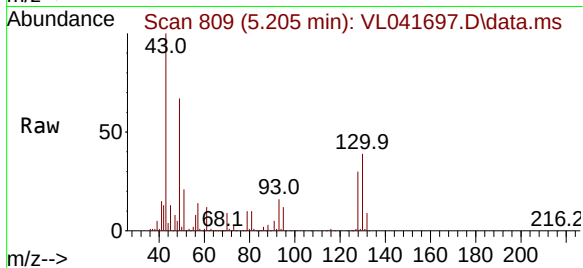




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.205 min Scan# 80  
Delta R.T. 0.017 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

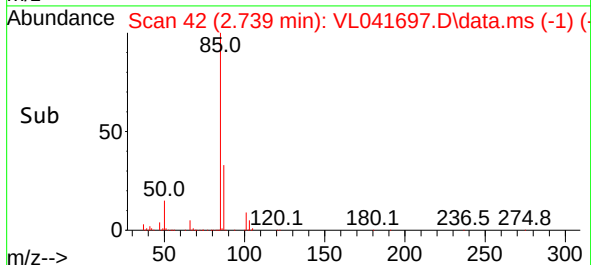
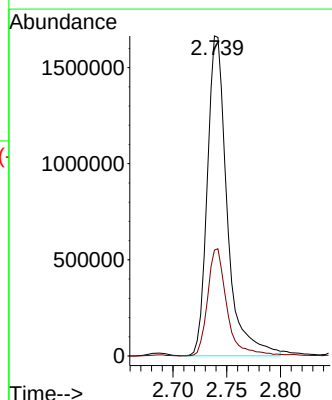
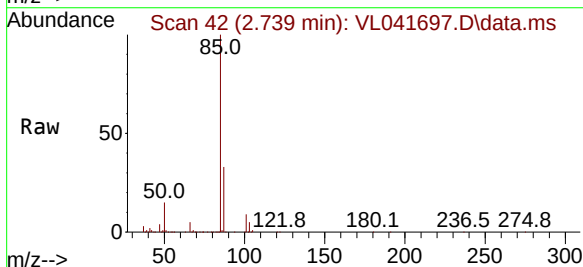
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MSVOA\_1  
ClientSampleId :  
VSTDCCC010

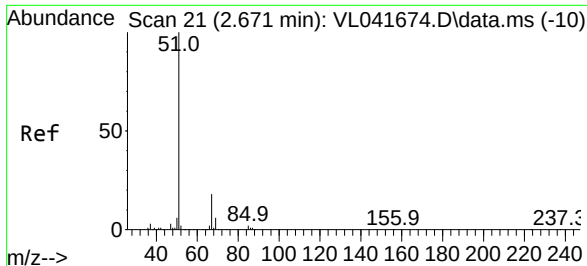
Tgt Ion: 49 Resp: 1123466  
Ion Ratio Lower Upper  
49 100  
128 47.1 23.8 71.2  
130 61.0 30.1 90.5



#2  
Dichlorodifluoromethane  
Concen: 10.541 ppbv  
RT: 2.739 min Scan# 42  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 85 Resp: 2140449  
Ion Ratio Lower Upper  
85 100  
87 33.1 26.8 40.2

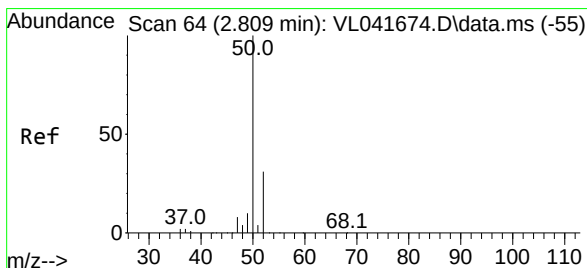
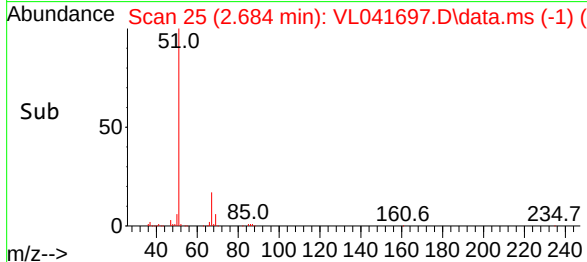
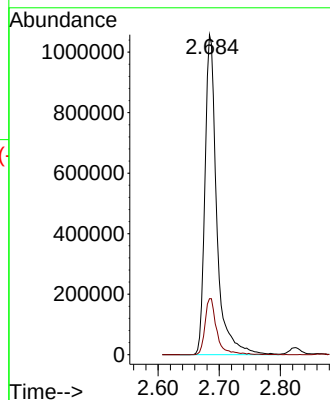
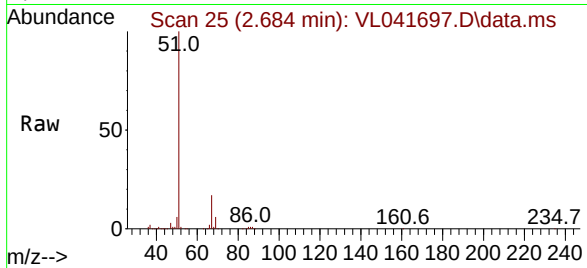




#3  
Chlorodifluoromethane  
Concen: 9.670 ppbv  
RT: 2.684 min Scan# 21  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

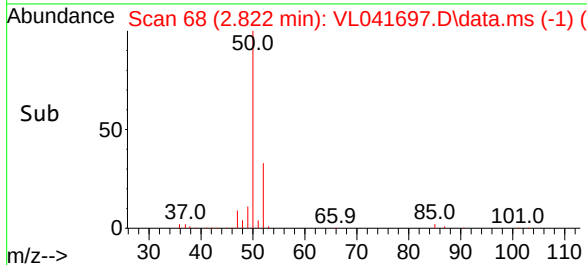
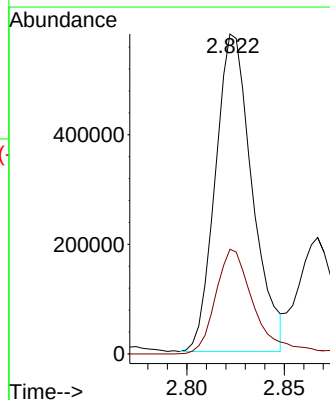
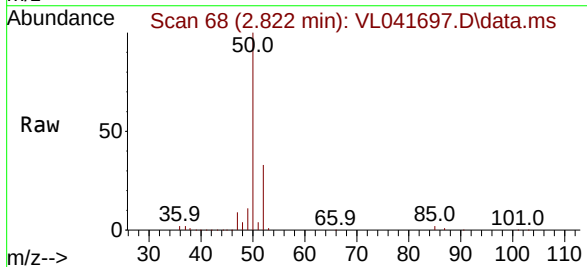
Instrument :  
MSVOA\_L  
ClientSampleId :  
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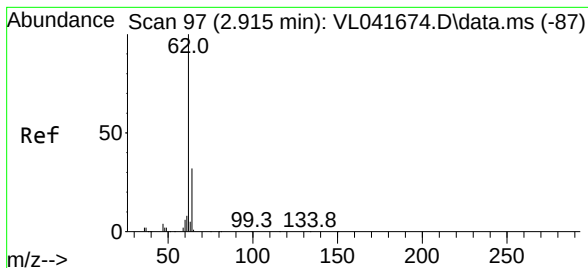
Tgt Ion: 51 Resp: 1415484  
Ion Ratio Lower Upper  
51 100  
67 17.6 13.9 20.9



#4  
Chloromethane  
Concen: 9.869 ppbv  
RT: 2.822 min Scan# 68  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 50 Resp: 765196  
Ion Ratio Lower Upper  
50 100  
52 32.8 24.9 37.3

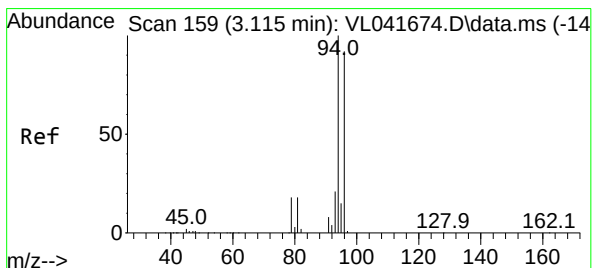
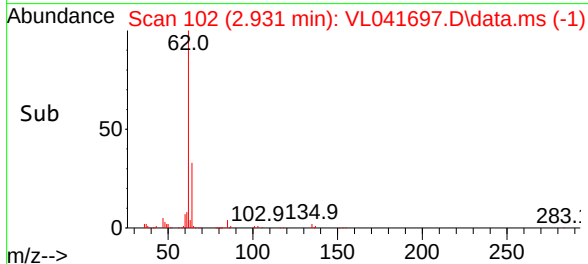
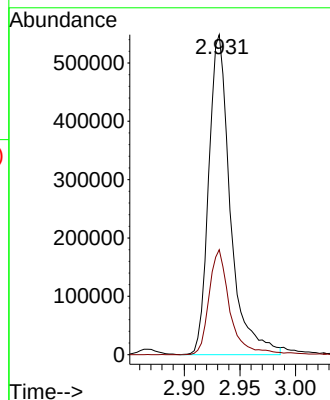
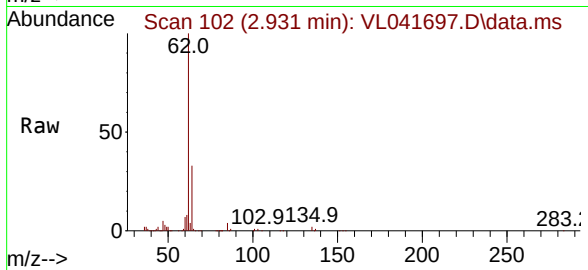




#5  
 Vinyl Chloride  
 Concen: 10.631 ppbv  
 RT: 2.931 min Scan# 10  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

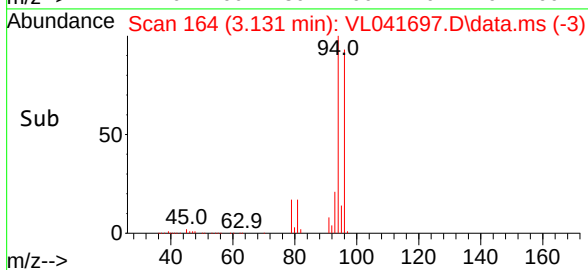
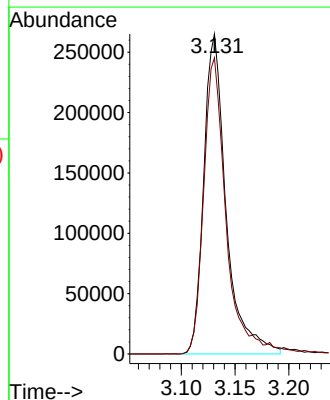
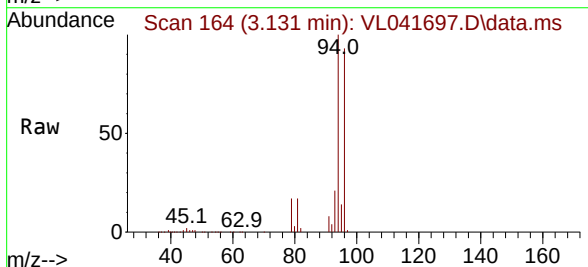
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

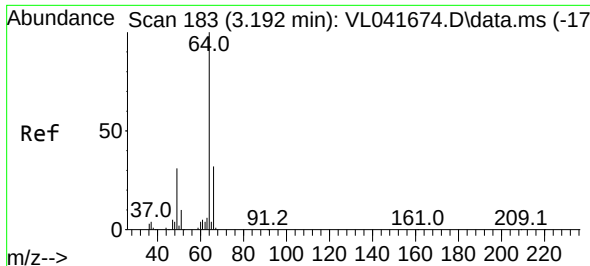
Tgt Ion: 62 Resp: 741512  
 Ion Ratio Lower Upper  
 62 100  
 64 32.8 25.4 38.2



#6  
 Bromomethane  
 Concen: 10.391 ppbv  
 RT: 3.131 min Scan# 164  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

Tgt Ion: 94 Resp: 384455  
 Ion Ratio Lower Upper  
 94 100  
 96 92.6 73.4 110.2

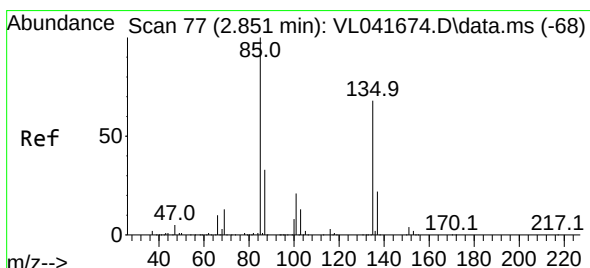
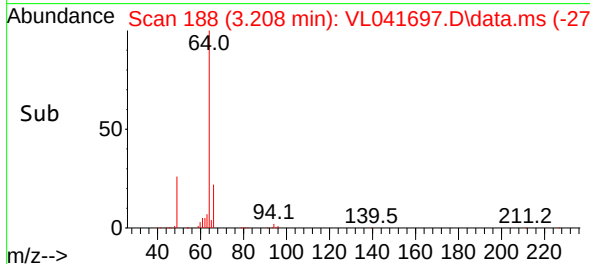
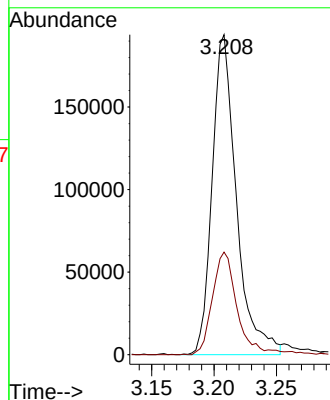
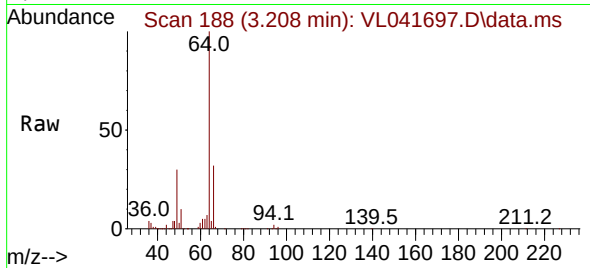




#7  
Chloroethane  
Concen: 10.312 ppbv  
RT: 3.208 min Scan# 11  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

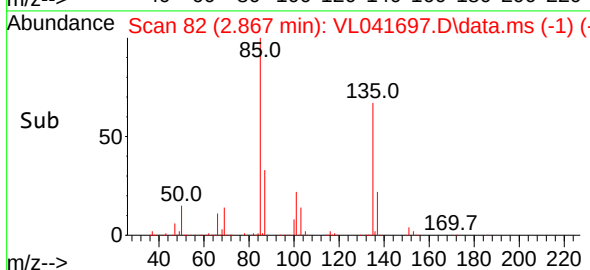
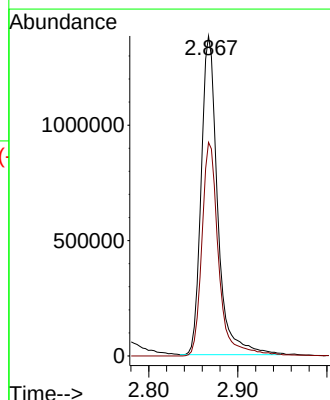
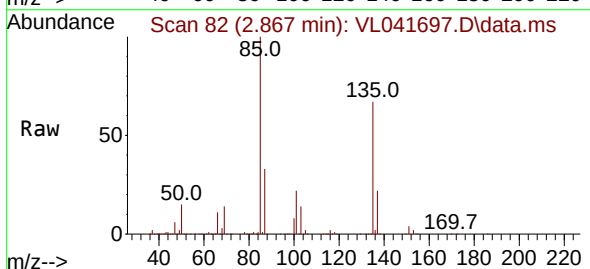
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MSVOA\_L  
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VSTDCCC010

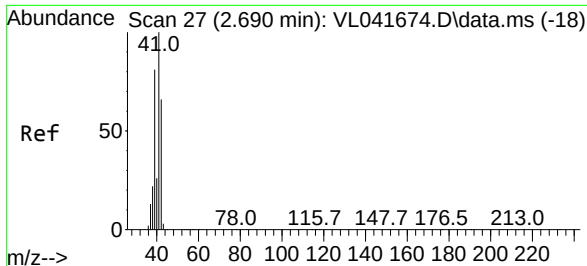
Tgt Ion: 64 Resp: 262500  
Ion Ratio Lower Upper  
64 100  
66 32.1 25.9 38.9



#8  
Dichlorotetrafluoroethane  
Concen: 9.777 ppbv  
RT: 2.867 min Scan# 82  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 85 Resp: 1772200  
Ion Ratio Lower Upper  
85 100  
135 68.7 55.5 83.3

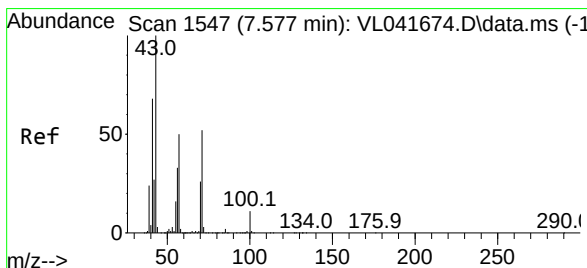
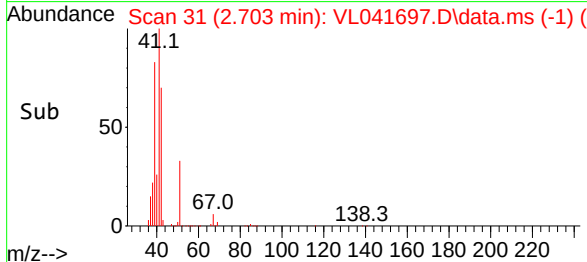
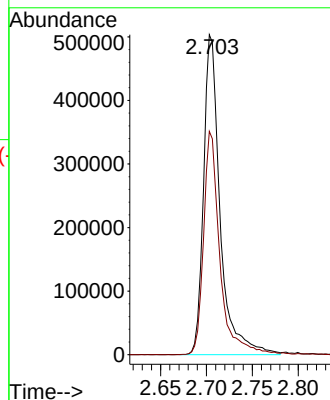
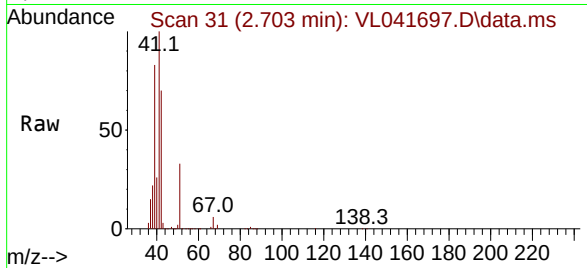




#9  
Propene  
Concen: 9.921 ppbv  
RT: 2.703 min Scan# 31  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

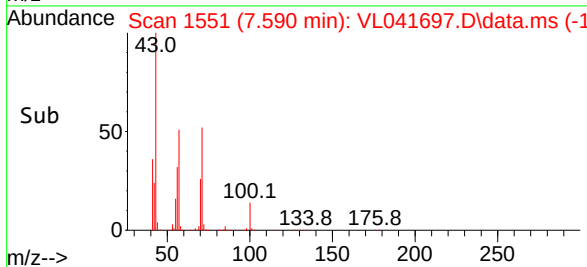
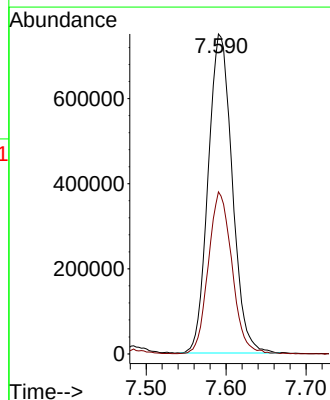
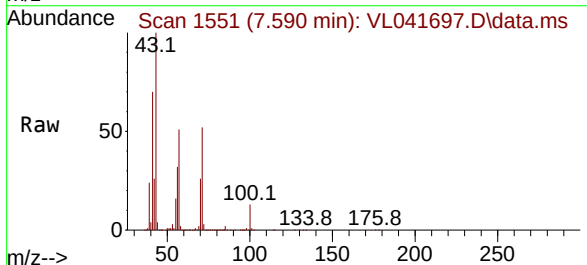
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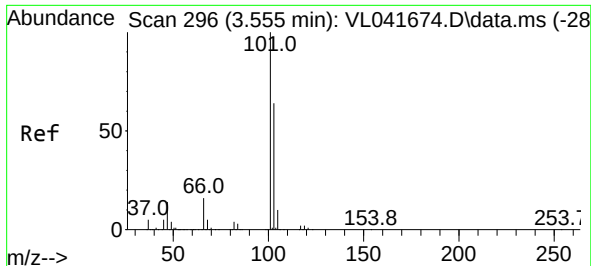
Tgt Ion: 41 Resp: 632787  
Ion Ratio Lower Upper  
41 100  
42 69.3 55.0 82.4



#10  
Heptane  
Concen: 10.954 ppbv  
RT: 7.590 min Scan# 1551  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 43 Resp: 1565567  
Ion Ratio Lower Upper  
43 100  
57 50.1 40.0 60.0

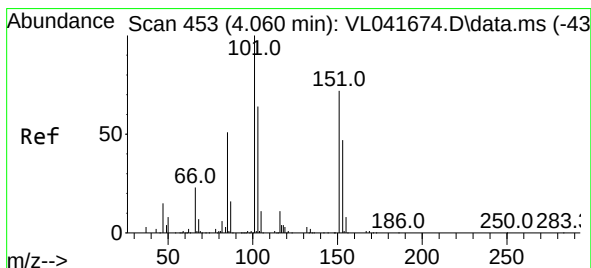
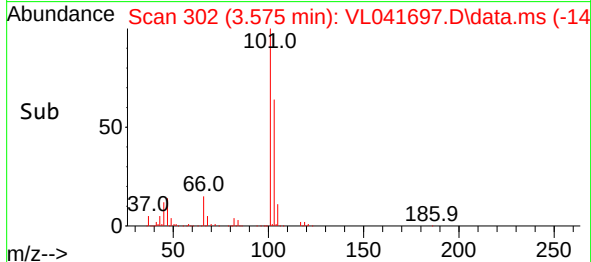
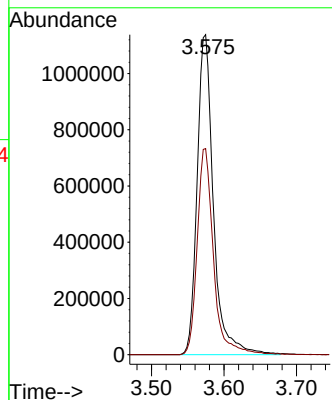
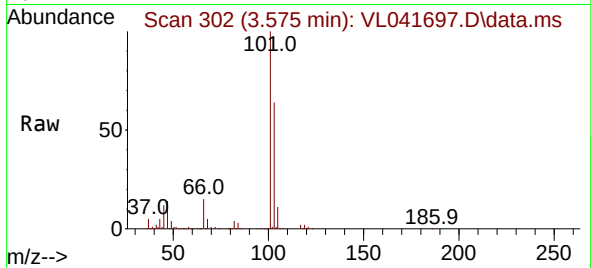




#11  
 Trichlorofluoromethane  
 Concen: 10.058 ppbv  
 RT: 3.575 min Scan# 30  
 Delta R.T. 0.019 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

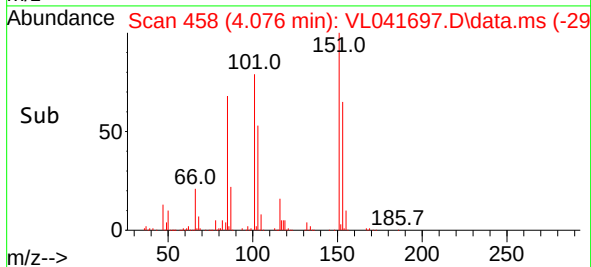
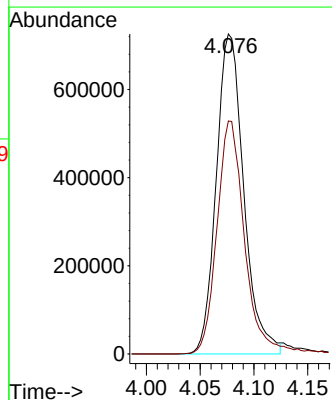
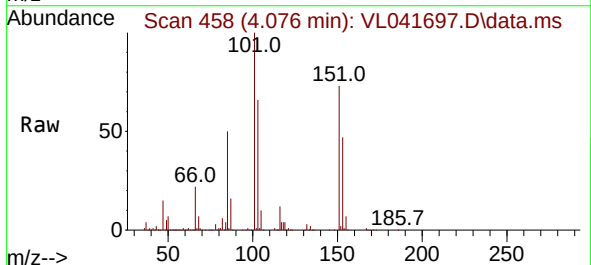
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

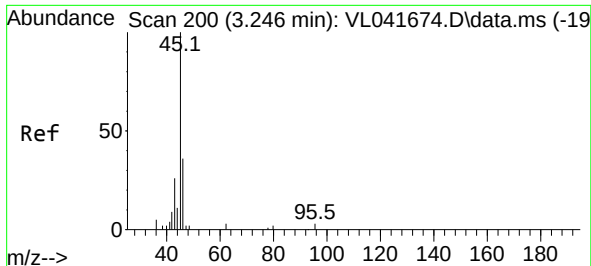
Tgt Ion:101 Resp: 1779018  
 Ion Ratio Lower Upper  
 101 100  
 103 64.4 51.0 76.6



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.044 ppbv  
 RT: 4.076 min Scan# 458  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

Tgt Ion:101 Resp: 1291192  
 Ion Ratio Lower Upper  
 101 100  
 151 74.0 59.1 88.7

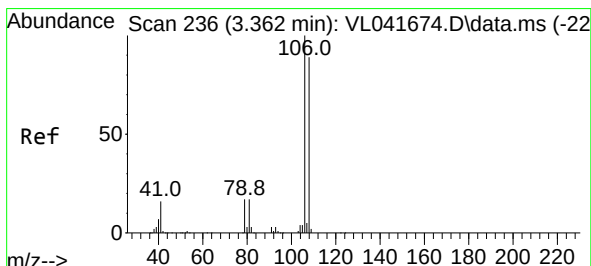
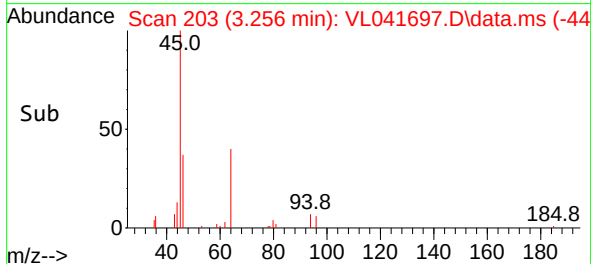
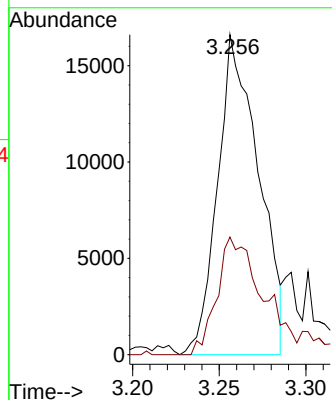
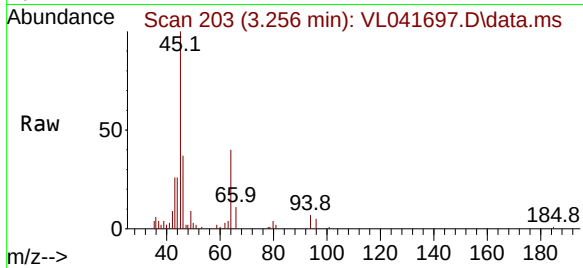




#13  
Ethanol  
Concen: 6.977 ppbv  
RT: 3.256 min Scan# 20  
Delta R.T. 0.010 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

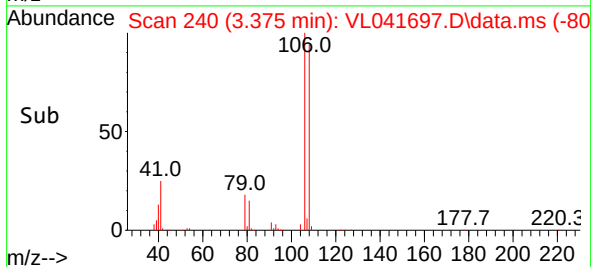
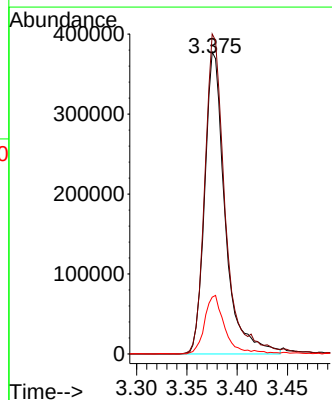
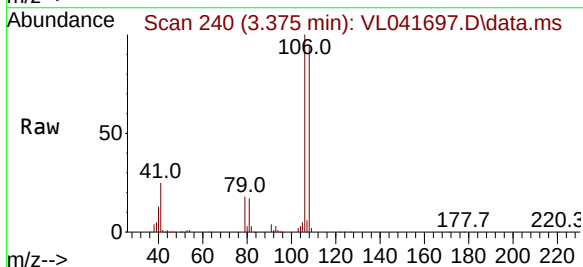
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 45 Resp: 27249  
Ion Ratio Lower Upper  
45 100  
46 48.6 13.8 55.2

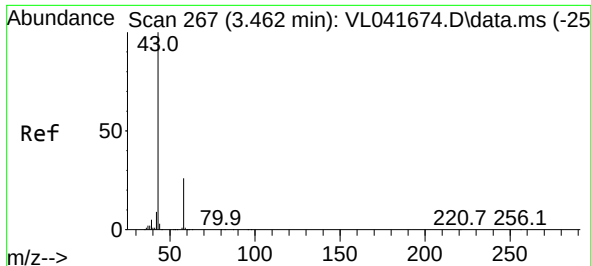


#14  
Bromoethene  
Concen: 10.312 ppbv  
RT: 3.375 min Scan# 240  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 108 Resp: 532947  
Ion Ratio Lower Upper  
108 100  
106 107.3 88.6 133.0  
79 20.3 15.6 23.4



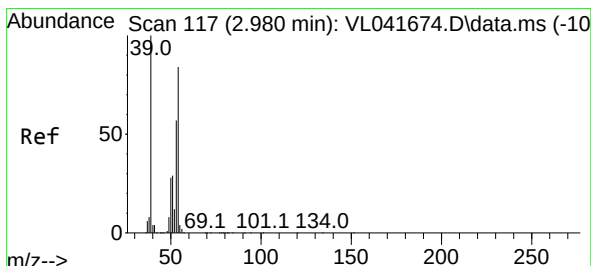
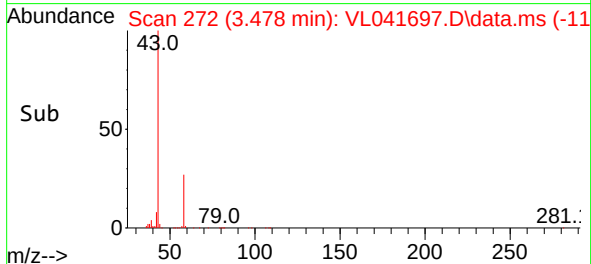
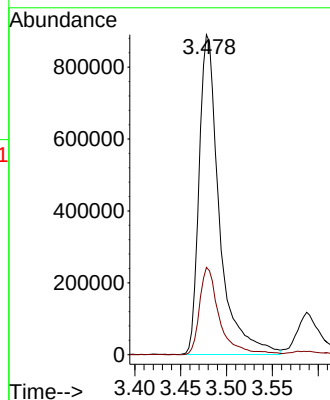
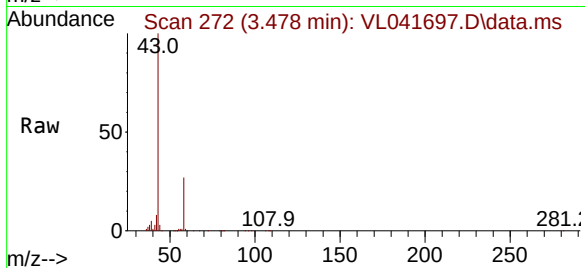




#15  
Acetone  
Concen: 9.889 ppbv  
RT: 3.478 min Scan# 21  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

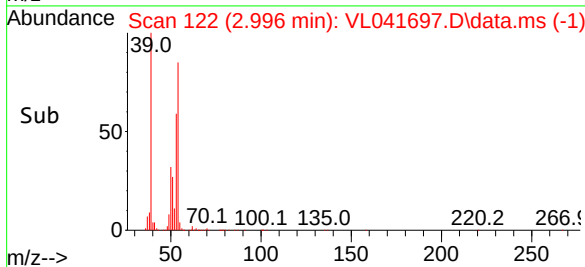
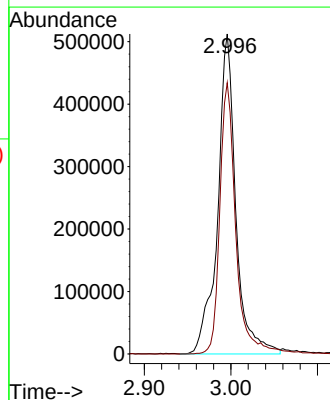
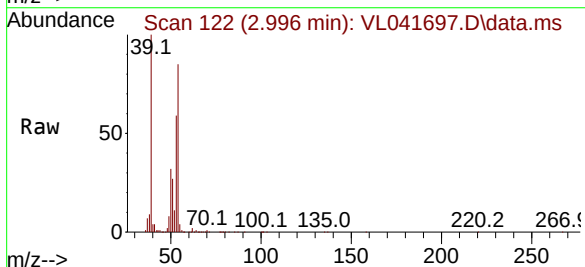
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

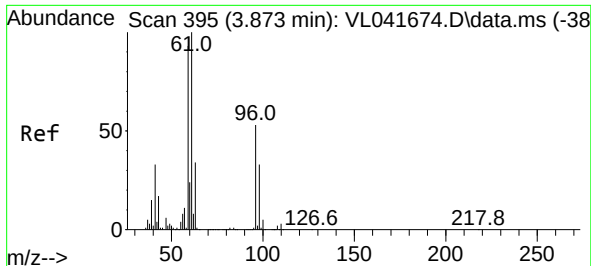
Tgt Ion: 43 Resp: 1367331  
Ion Ratio Lower Upper  
43 100  
58 26.8 21.4 32.0



#16  
1,3-Butadiene  
Concen: 10.741 ppbv  
RT: 2.996 min Scan# 122  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 39 Resp: 749348  
Ion Ratio Lower Upper  
39 100  
54 74.9 61.3 91.9

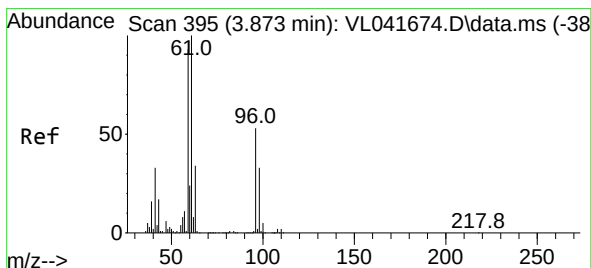
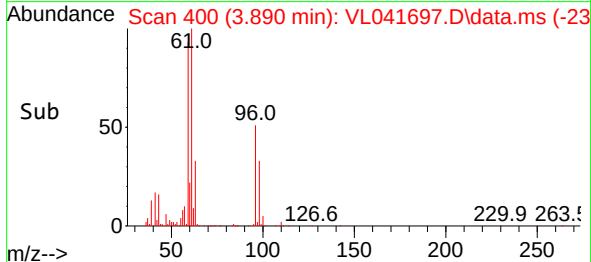
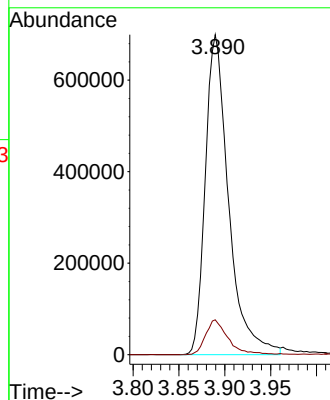
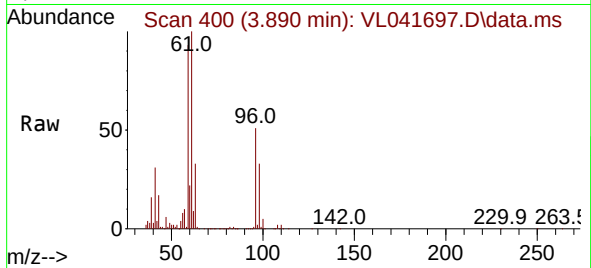




#17  
tert-Butyl alcohol  
Concen: 10.178 ppbv  
RT: 3.890 min Scan# 400  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

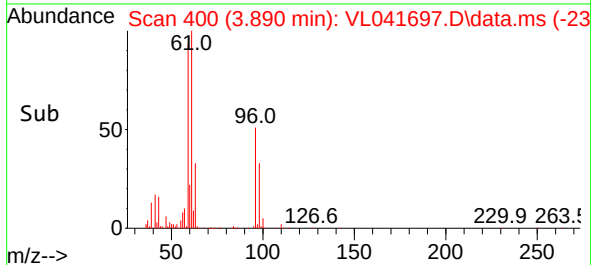
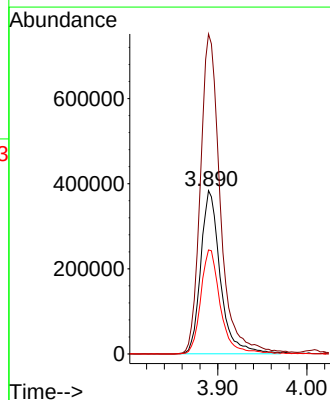
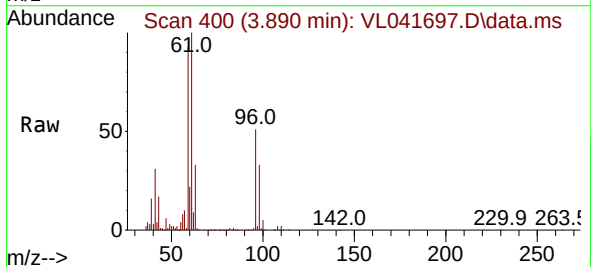
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

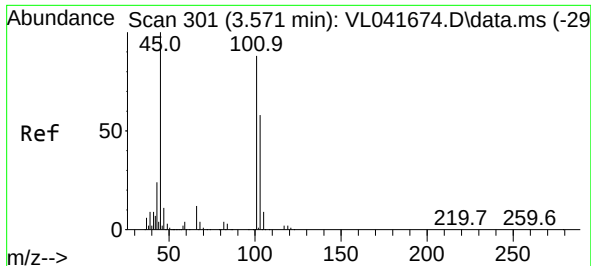
Tgt Ion: 59 Resp: 1234931  
Ion Ratio Lower Upper  
59 100  
57 10.8 8.5 12.7



#18  
1,1-Dichloroethene  
Concen: 10.411 ppbv  
RT: 3.890 min Scan# 400  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 96 Resp: 587002  
Ion Ratio Lower Upper  
96 100  
61 195.7 150.7 226.1  
98 63.6 49.4 74.2

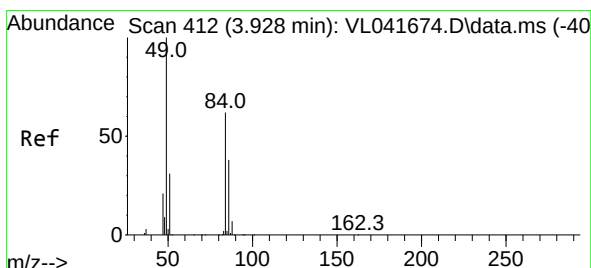
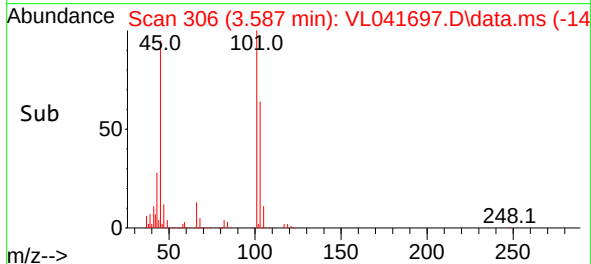
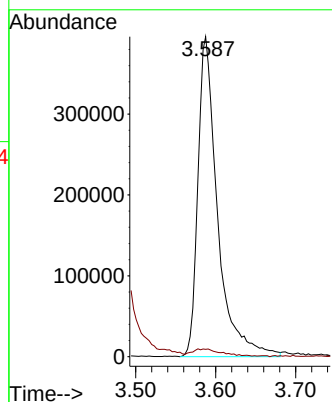
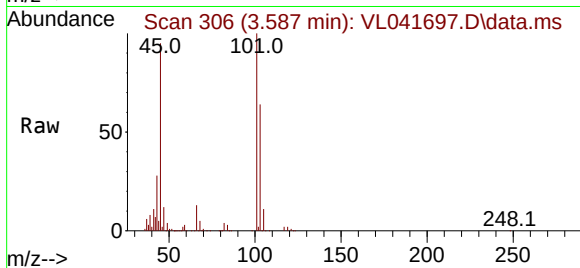




#19  
Isopropyl Alcohol  
Concen: 10.238 ppbv  
RT: 3.587 min Scan# 306  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

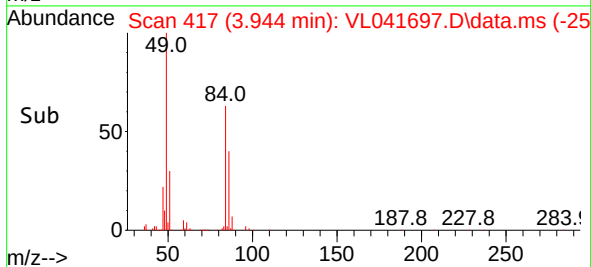
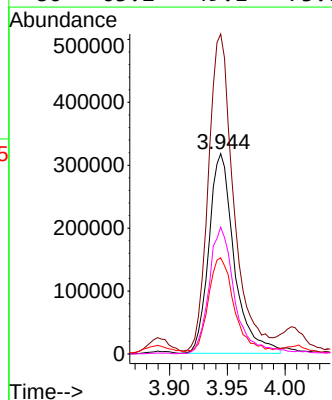
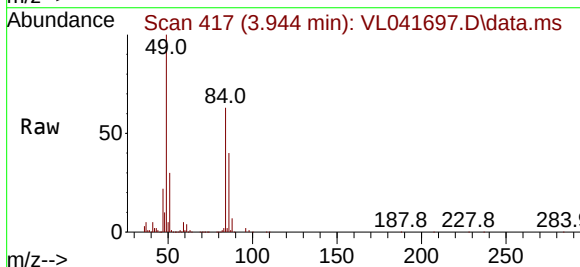
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

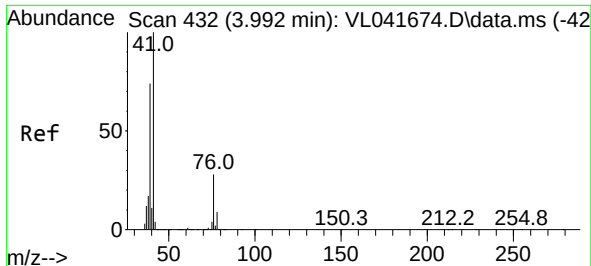
Tgt Ion: 45 Resp: 676609  
Ion Ratio Lower Upper  
45 100  
58 3.7 2.5 3.7



#20  
Methylene Chloride  
Concen: 9.539 ppbv  
RT: 3.944 min Scan# 417  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 84 Resp: 485339  
Ion Ratio Lower Upper  
84 100  
49 158.5 129.7 194.5  
51 46.5 39.8 59.6  
86 63.2 49.1 73.7





#21

Allyl Chloride

Concen: 10.777 ppbv

RT: 4.009 min Scan# 41

Delta R.T. 0.016 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

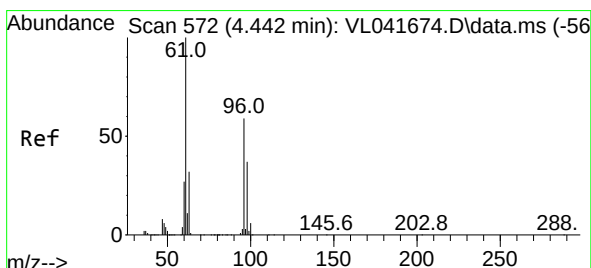
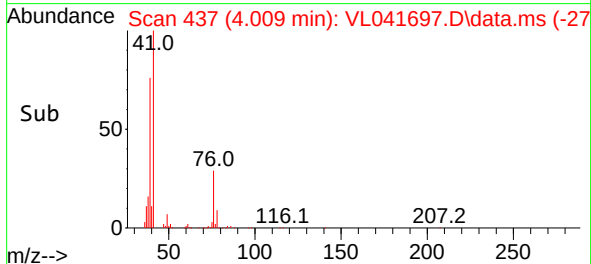
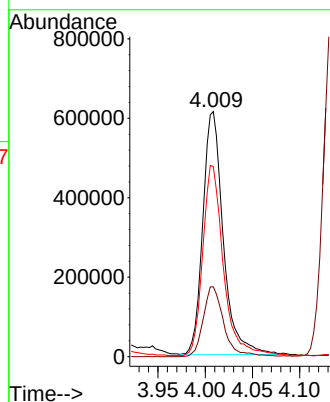
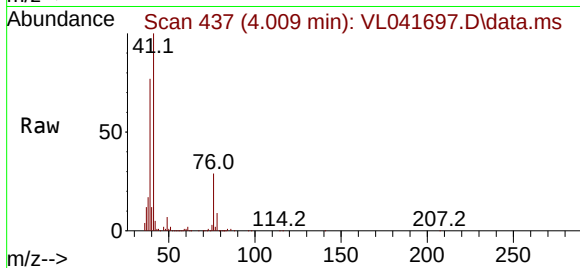
Tgt Ion: 41 Resp: 920766

Ion Ratio Lower Upper

41 100

76 29.1 23.5 35.3

39 79.3 63.0 94.4



#22

trans-1,2-Dichloroethene

Concen: 10.631 ppbv

RT: 4.459 min Scan# 577

Delta R.T. 0.016 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

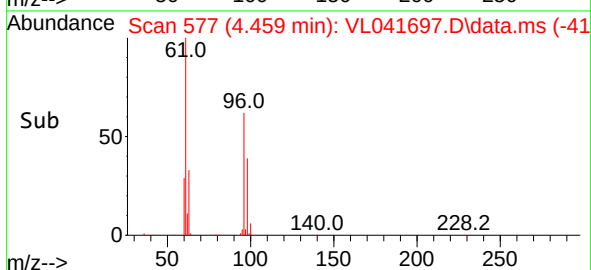
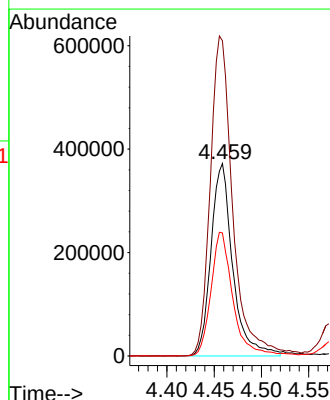
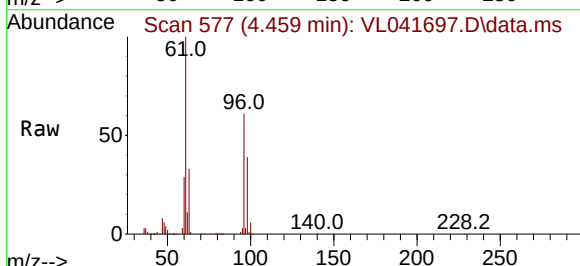
Tgt Ion: 96 Resp: 595977

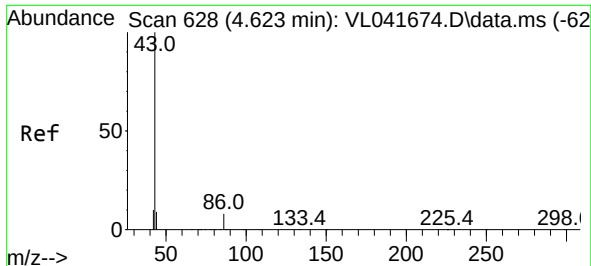
Ion Ratio Lower Upper

96 100

61 163.7 134.5 201.7

98 63.8 49.6 74.4

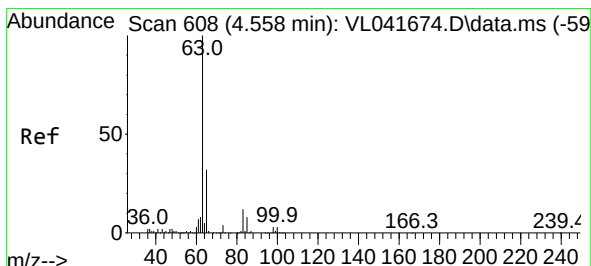
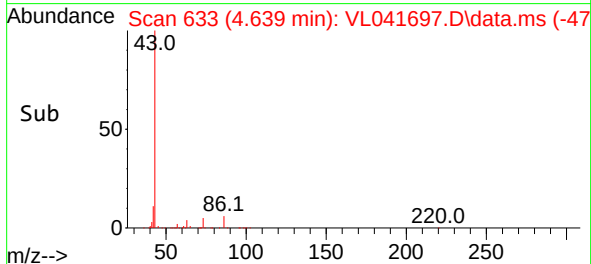
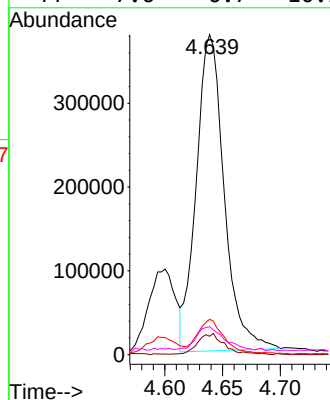
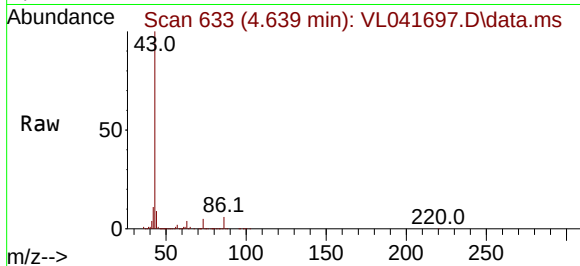




#23  
 Vinyl Acetate  
 Concen: 10.425 ppbv  
 RT: 4.639 min Scan# 613  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

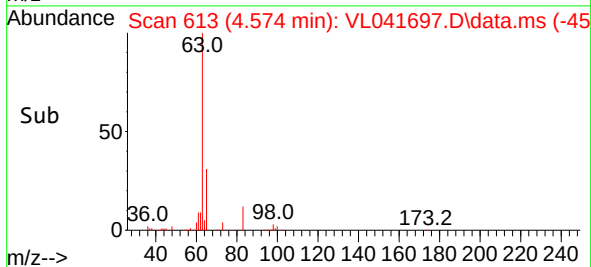
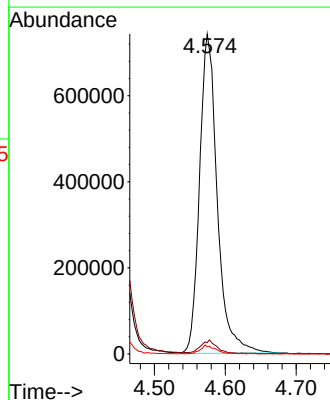
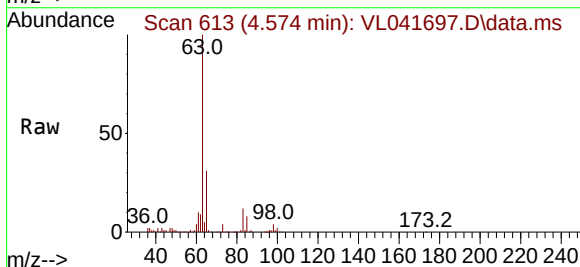
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

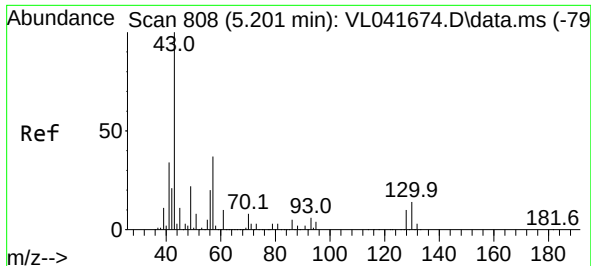
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 635436 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 5.6   | 5.3   | 7.9    |
| 42       | 10.8  | 8.5   | 12.7   |
| 44       | 7.6   | 6.7   | 10.1   |



#24  
 1,1-Dichloroethane  
 Concen: 10.304 ppbv  
 RT: 4.574 min Scan# 613  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 63    | Resp: | 1289373 |
| Ion      | Ratio | Lower | Upper   |
| 63       | 100   |       |         |
| 98       | 3.5   | 1.8   | 5.4     |
| 100      | 2.3   | 1.4   | 4.2     |



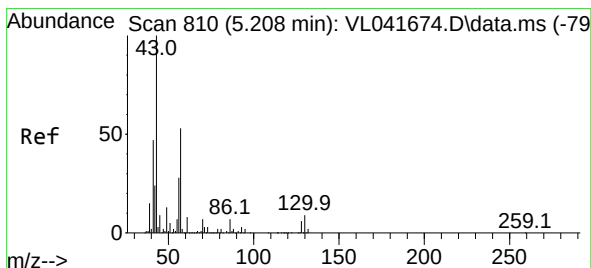
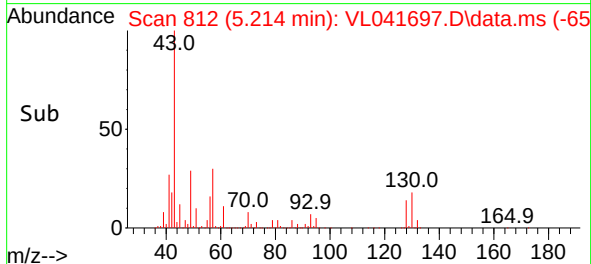
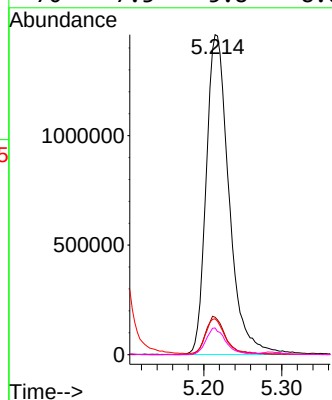
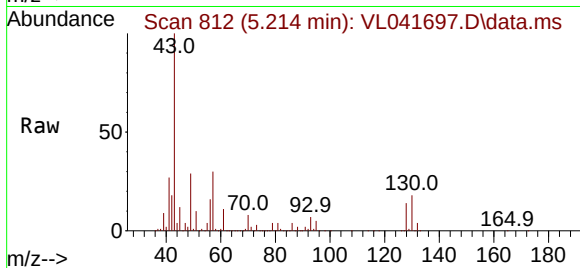


#25  
Ethyl Acetate  
Concen: 10.321 ppbv  
RT: 5.214 min Scan# 812  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 2953915

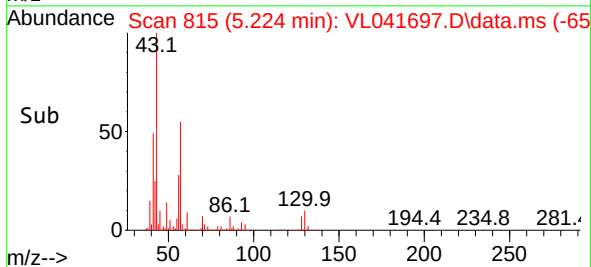
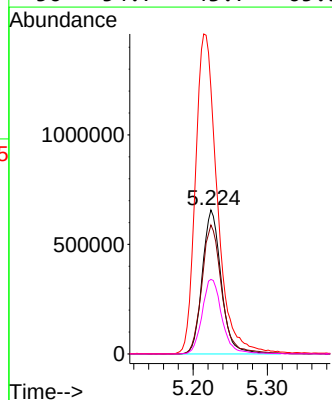
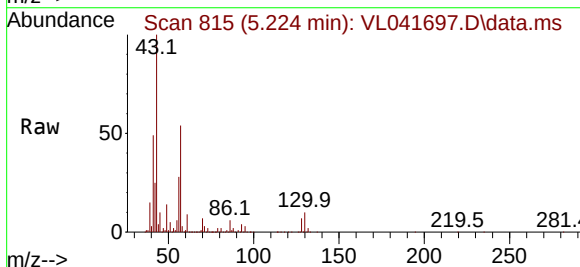
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.9  | 8.6   | 13.0  |
| 61  | 10.4  | 8.4   | 12.6  |
| 70  | 7.3   | 5.8   | 8.6   |

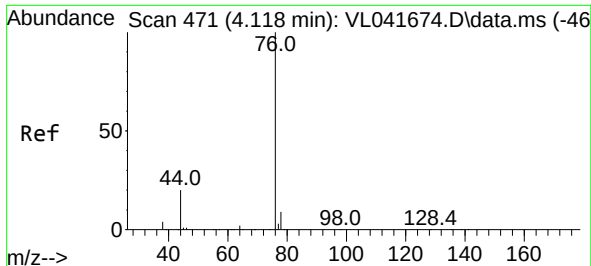


#26  
Hexane  
Concen: 10.567 ppbv  
RT: 5.224 min Scan# 815  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 57 Resp: 1161873

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 95.4  | 76.1  | 114.1 |
| 43  | 256.7 | 207.0 | 310.6 |
| 56  | 54.7  | 43.7  | 65.5  |

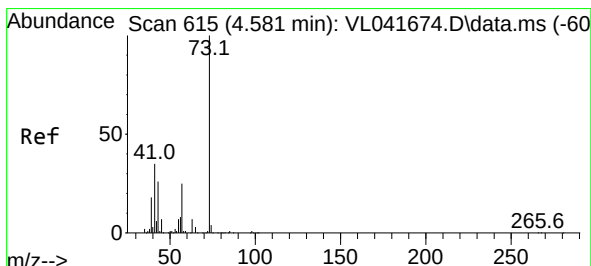
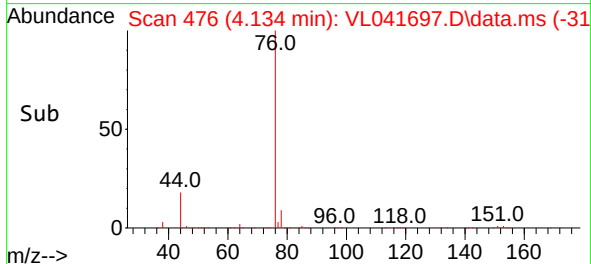
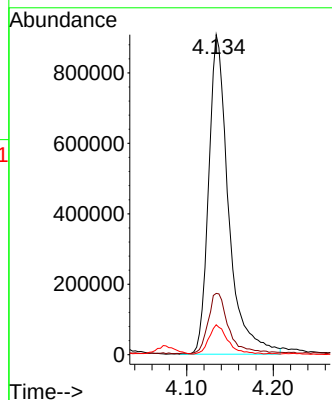
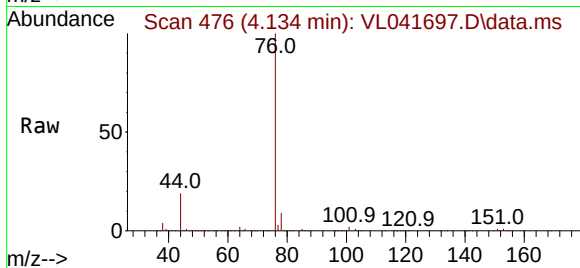




#27  
Carbon Disulfide  
Concen: 11.714 ppbv  
RT: 4.134 min Scan# 41  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

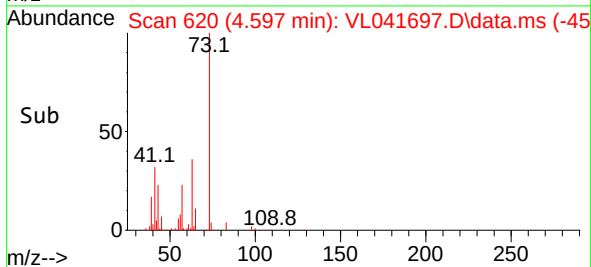
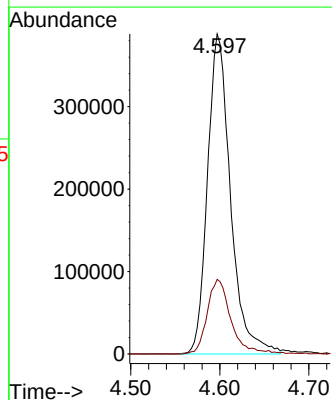
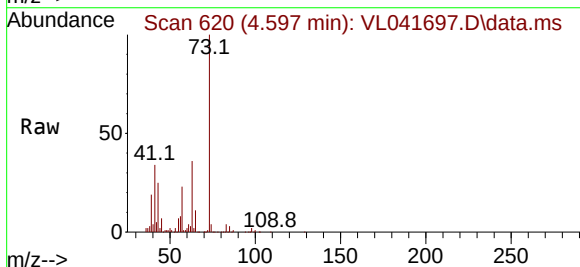
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

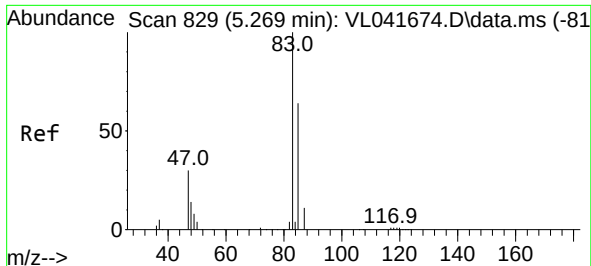
Tgt Ion: 76 Resp: 1447099  
Ion Ratio Lower Upper  
76 100  
44 19.8 15.8 23.8  
78 9.4 7.5 11.3



#28  
Methyl tert-Butyl Ether  
Concen: 9.841 ppbv  
RT: 4.597 min Scan# 620  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 73 Resp: 696845  
Ion Ratio Lower Upper  
73 100  
57 24.1 19.6 29.4





#29

Chloroform

Concen: 10.127 ppbv

RT: 5.288 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Instrument :

MSVOA\_L

ClientSampleId :

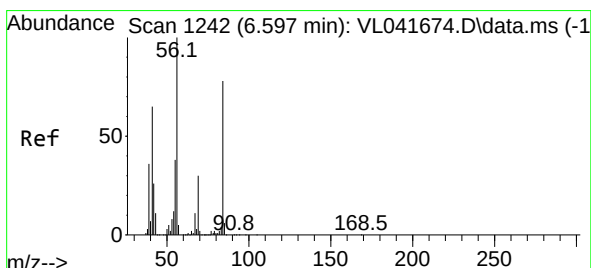
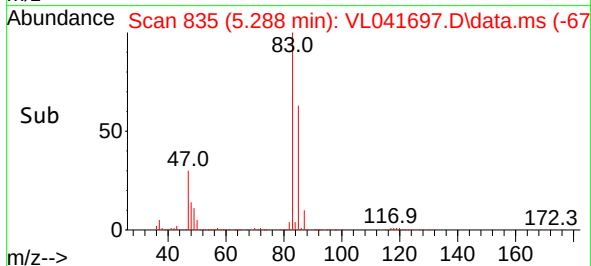
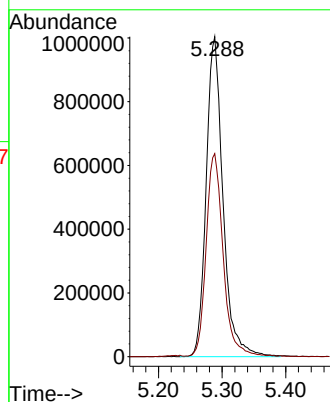
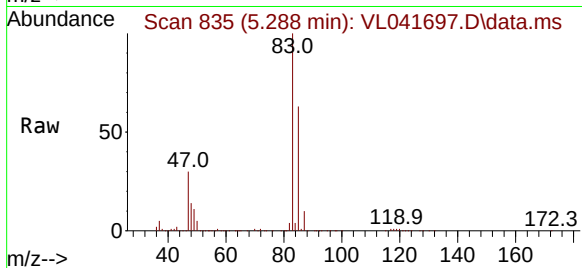
VSTDCCC010

Tgt Ion: 83 Resp: 1838047

Ion Ratio Lower Upper

83 100

85 63.2 51.1 76.7



#30

Cyclohexane

Concen: 10.644 ppbv

RT: 6.616 min Scan# 1248

Delta R.T. 0.019 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

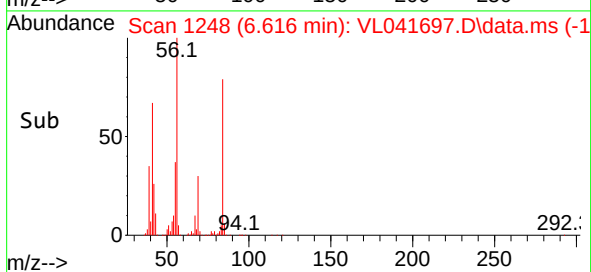
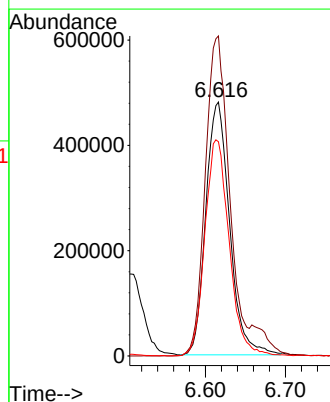
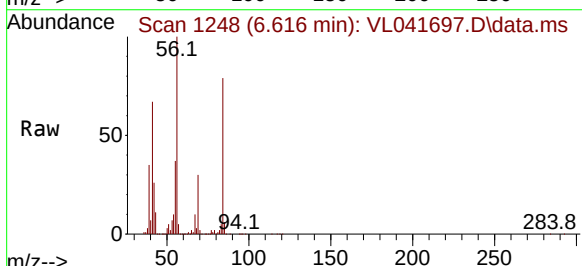
Tgt Ion: 84 Resp: 996570

Ion Ratio Lower Upper

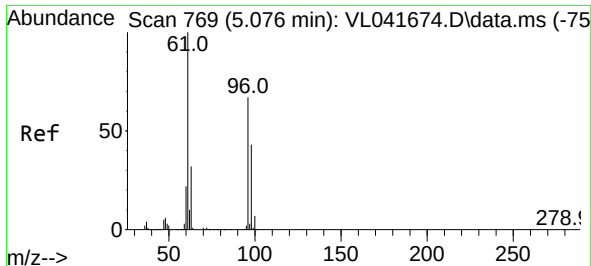
84 100

56 135.5 110.8 166.2

41 87.4 70.0 105.0



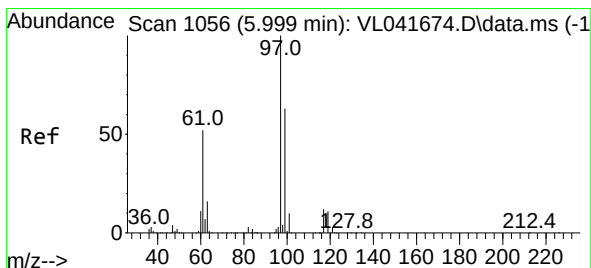
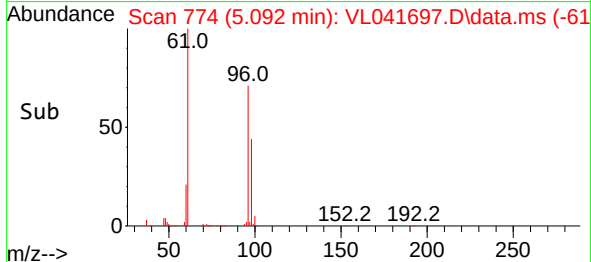
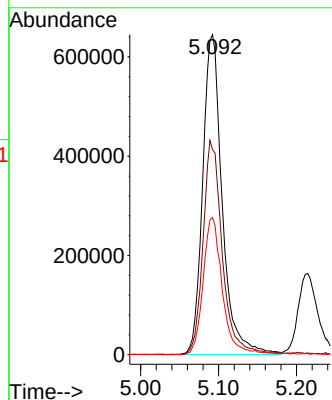
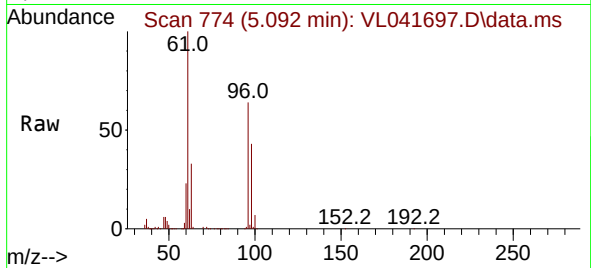




#31  
cis-1,2-Dichloroethene  
Concen: 10.612 ppbv  
RT: 5.092 min Scan# 71  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

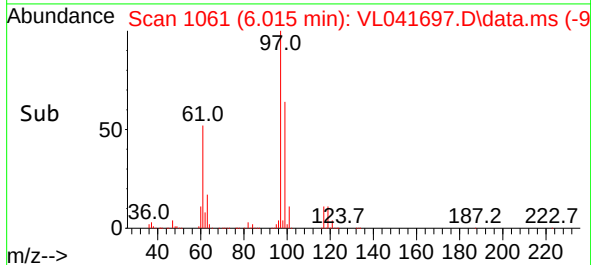
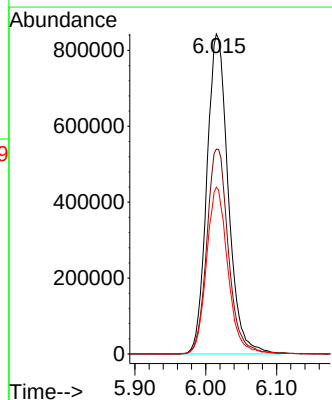
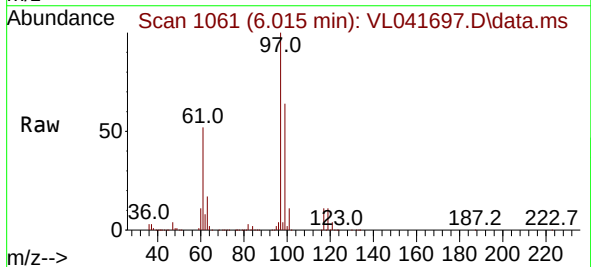
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

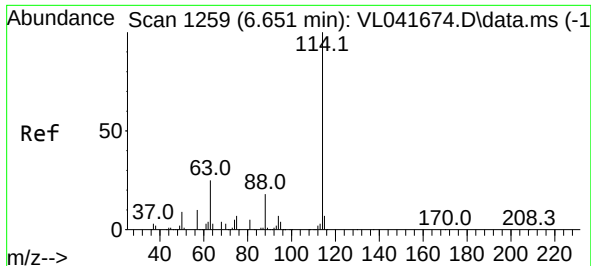
Tgt Ion: 61 Resp: 1122533  
Ion Ratio Lower Upper  
61 100  
96 63.9 53.4 80.2  
98 42.9 34.0 51.0



#32  
1,1,1-Trichloroethane  
Concen: 10.673 ppbv  
RT: 6.015 min Scan# 1061  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 97 Resp: 1767346  
Ion Ratio Lower Upper  
97 100  
99 64.9 51.4 77.2  
61 52.4 41.7 62.5

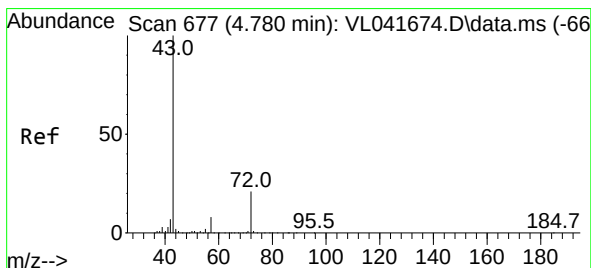
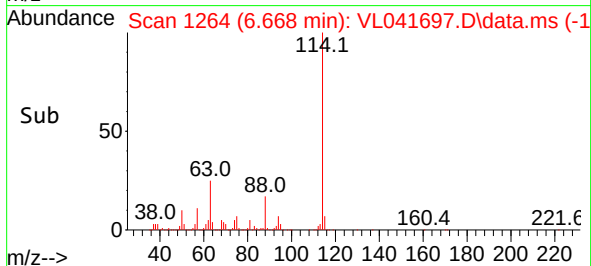
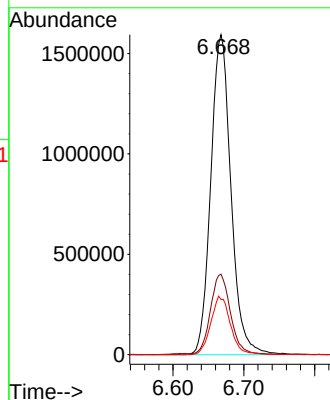
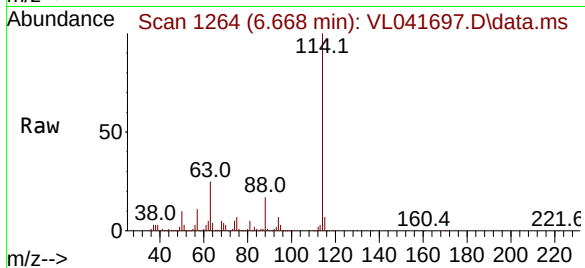




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.668 min Scan# 11  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

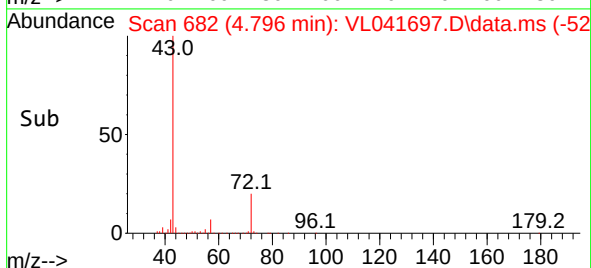
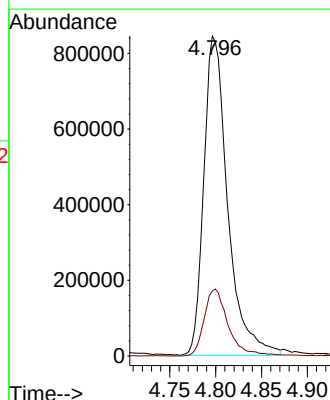
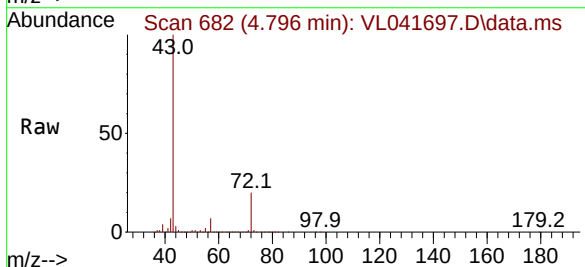
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

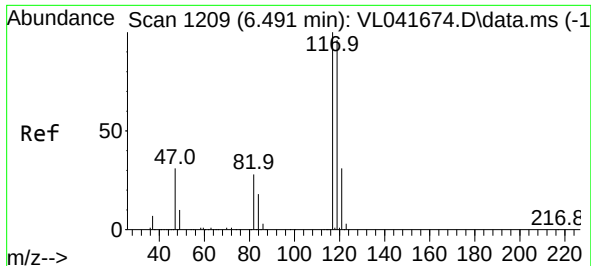
Tgt Ion:114 Resp: 3154537  
Ion Ratio Lower Upper  
114 100  
63 25.5 20.3 30.5  
88 17.8 14.2 21.4



#34  
2-Butanone  
Concen: 9.731 ppbv  
RT: 4.796 min Scan# 682  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 43 Resp: 1528409  
Ion Ratio Lower Upper  
43 100  
72 21.3 17.4 26.0

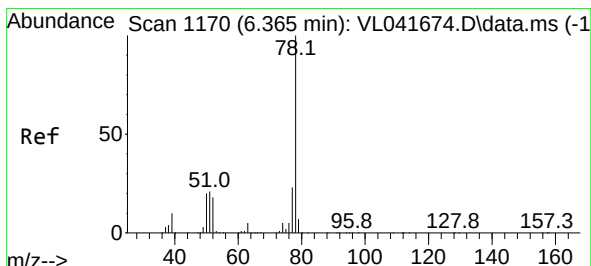
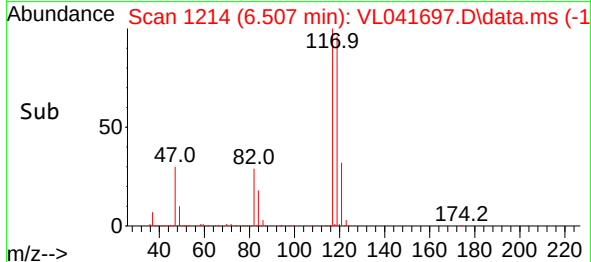
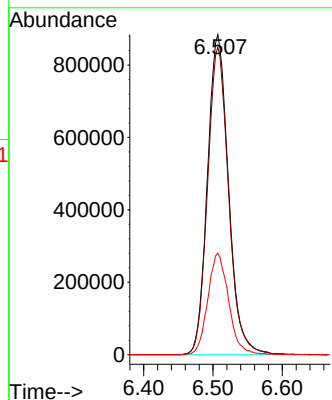
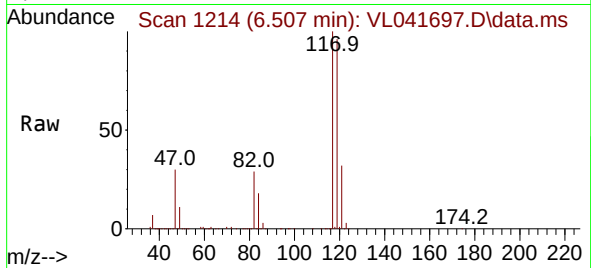




#35  
Carbon Tetrachloride  
Concen: 11.222 ppbv  
RT: 6.507 min Scan# 1176  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

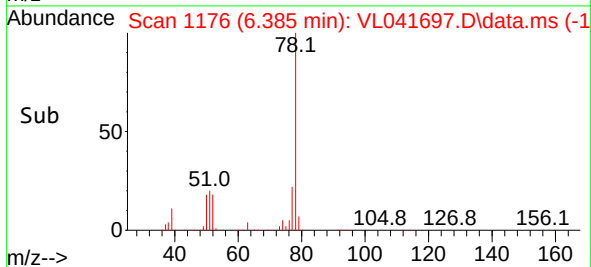
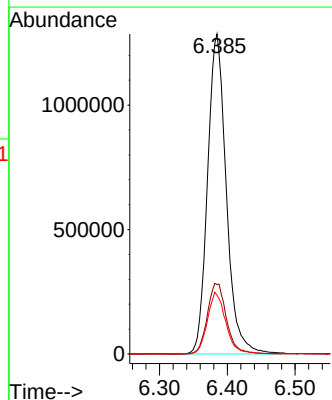
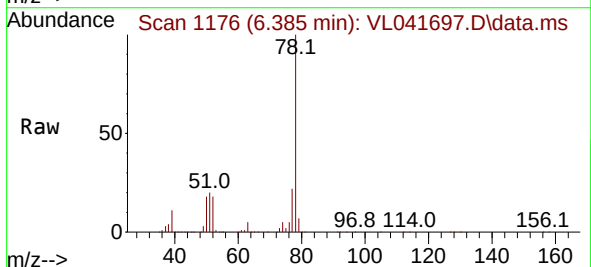
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

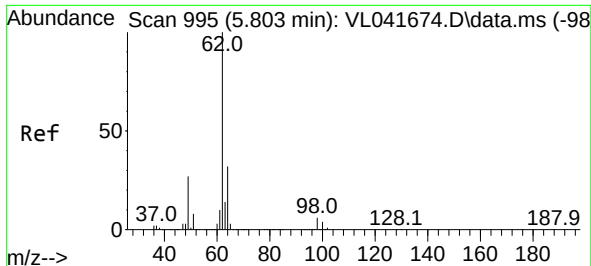
Tgt Ion:117 Resp: 1867710  
Ion Ratio Lower Upper  
117 100  
119 96.1 77.2 115.8  
121 31.7 25.0 37.4



#36  
Benzene  
Concen: 10.579 ppbv  
RT: 6.385 min Scan# 1176  
Delta R.T. 0.019 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 78 Resp: 2472710  
Ion Ratio Lower Upper  
78 100  
77 21.7 18.5 27.7  
50 18.3 15.6 23.4

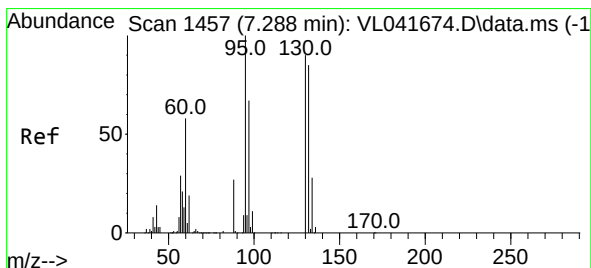
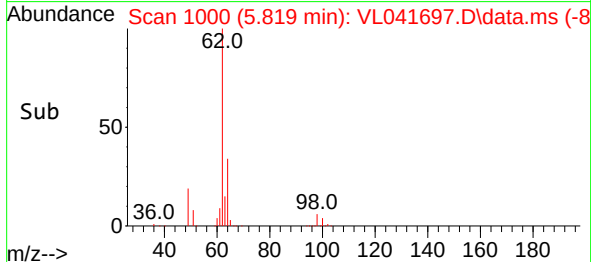
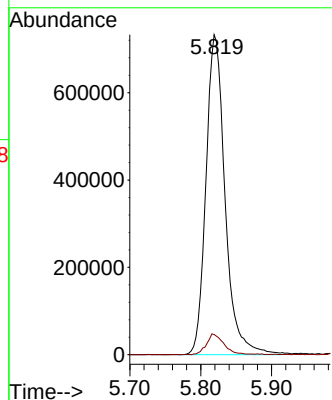
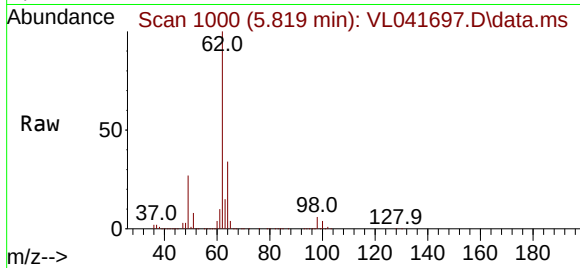




#37  
1,2-Dichloroethane  
Concen: 10.411 ppbv  
RT: 5.819 min Scan# 10  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

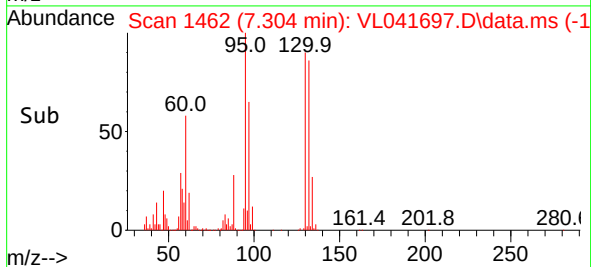
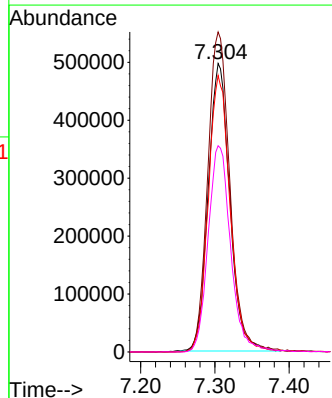
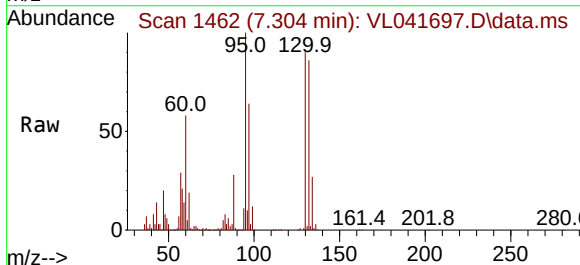
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

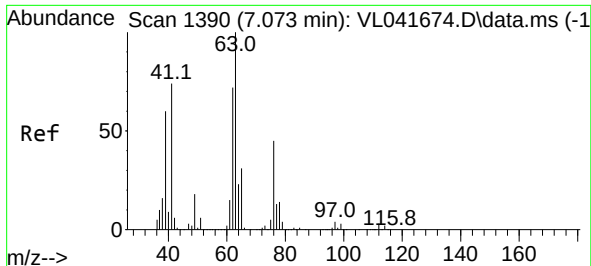
Tgt Ion: 62 Resp: 1372788  
Ion Ratio Lower Upper  
62 100  
98 6.2 5.2 7.8



#38  
Trichloroethene  
Concen: 11.179 ppbv  
RT: 7.304 min Scan# 1462  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion:130 Resp: 1003555  
Ion Ratio Lower Upper  
130 100  
95 111.2 89.1 133.7  
132 96.1 75.7 113.5  
97 71.7 60.0 90.0





#39

1,2-Dichloropropane

Concen: 10.346 ppbv

RT: 7.089 min Scan# 11

Delta R.T. 0.016 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

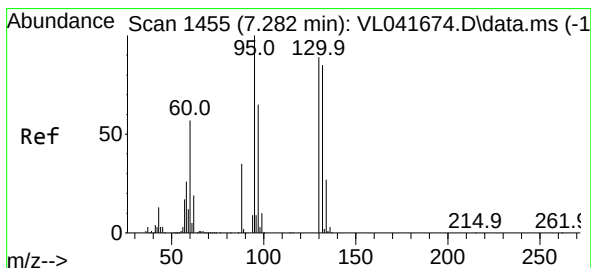
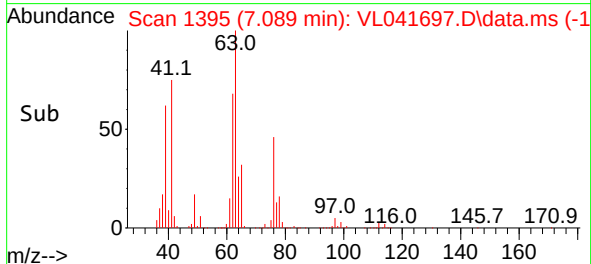
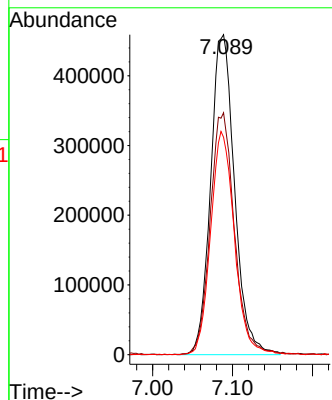
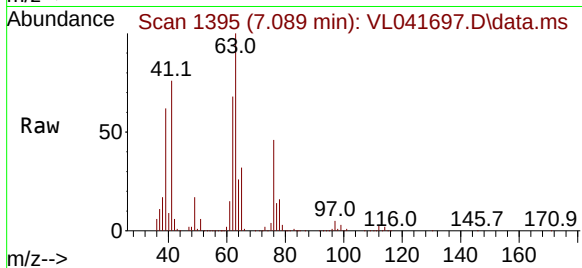
Tgt Ion: 63 Resp: 955590

Ion Ratio Lower Upper

63 100

41 75.6 59.1 88.7

62 67.9 57.7 86.5



#40

1,4-Dioxane

Concen: 11.031 ppbv

RT: 7.298 min Scan# 1460

Delta R.T. 0.016 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Tgt Ion: 88 Resp: 365570

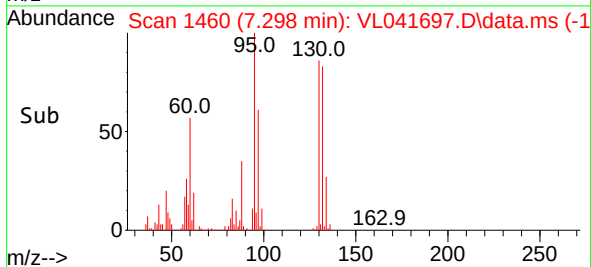
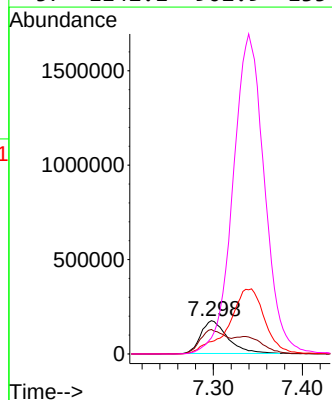
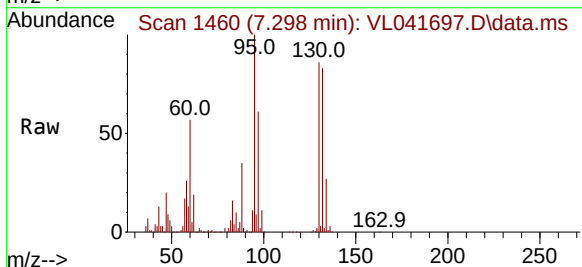
Ion Ratio Lower Upper

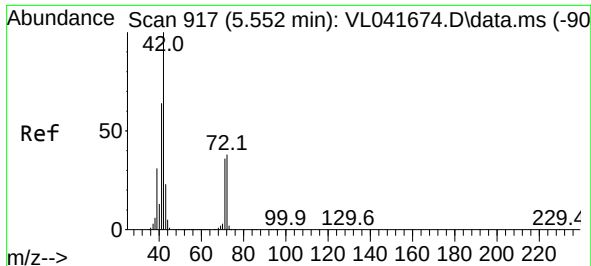
88 100

58 128.6 101.4 152.2

43 263.4 208.0 312.0

57 1142.1 902.9 1354.3

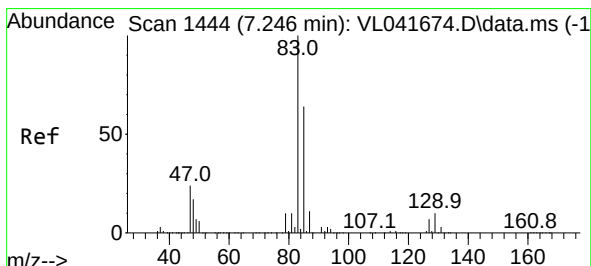
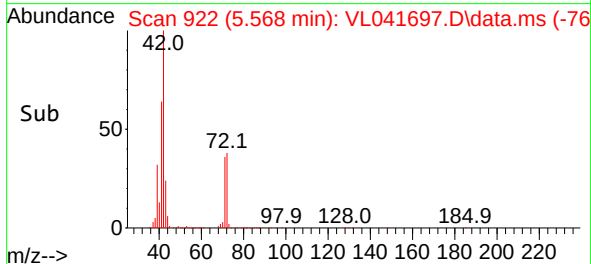
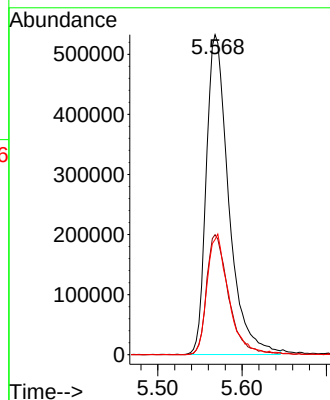
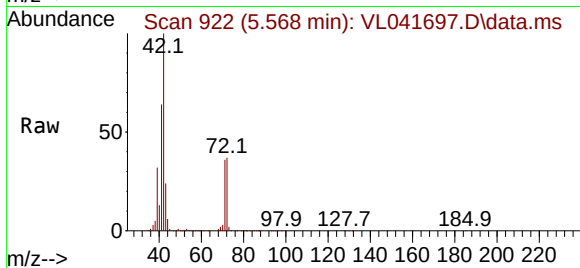




#41  
Tetrahydrofuran  
Concen: 11.035 ppbv  
RT: 5.568 min Scan# 917  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

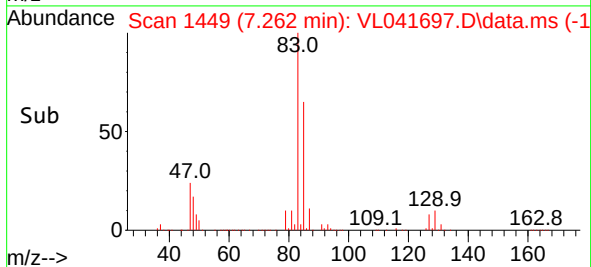
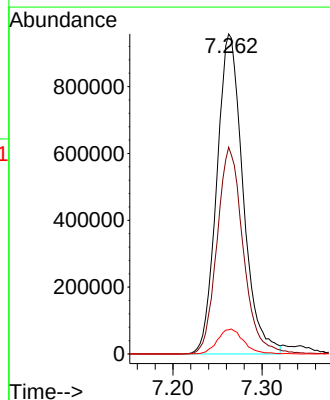
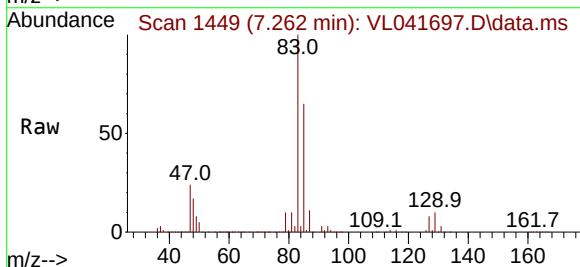
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

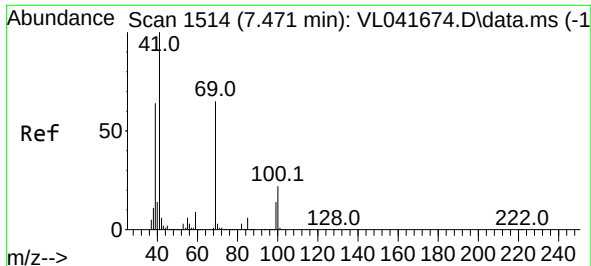
Tgt Ion: 42 Resp: 989840  
Ion Ratio Lower Upper  
42 100  
72 37.2 29.8 44.6  
71 36.8 29.4 44.2



#42  
Bromodichloromethane  
Concen: 10.692 ppbv  
RT: 7.262 min Scan# 1449  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 83 Resp: 1959114  
Ion Ratio Lower Upper  
83 100  
85 64.6 51.2 76.8  
127 7.6 6.0 9.0





#43

Methyl Methacrylate

Concen: 11.538 ppbv

RT: 7.488 min Scan# 1

Delta R.T. 0.016 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Instrument :

MSVOA\_1

ClientSampleId :

VSTDCCC010

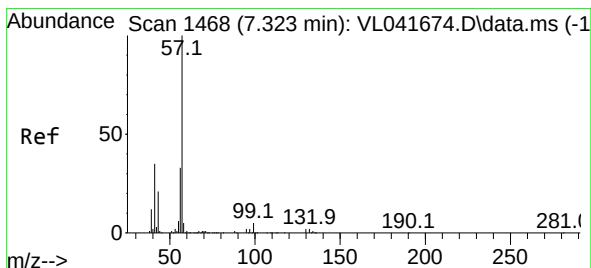
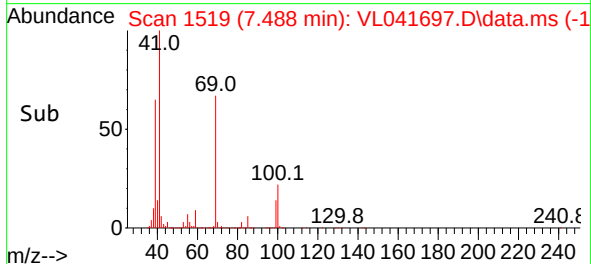
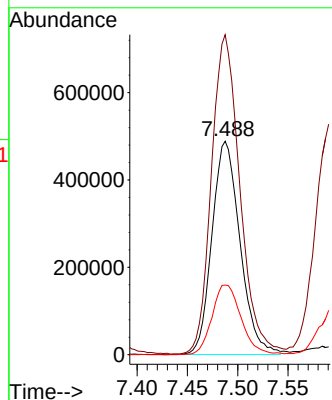
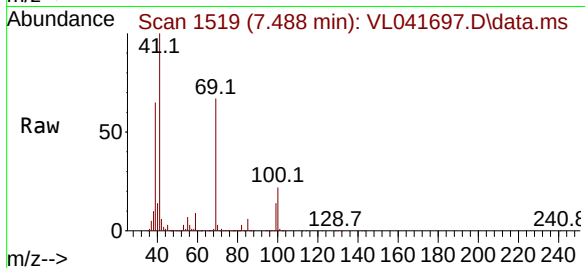
Tgt Ion: 69 Resp: 946899

Ion Ratio Lower Upper

69 100

41 152.6 119.8 179.6

100 34.0 27.3 40.9



#44

2,2,4-Trimethylpentane

Concen: 10.542 ppbv

RT: 7.340 min Scan# 1473

Delta R.T. 0.016 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

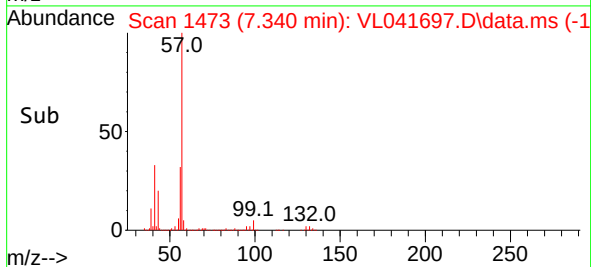
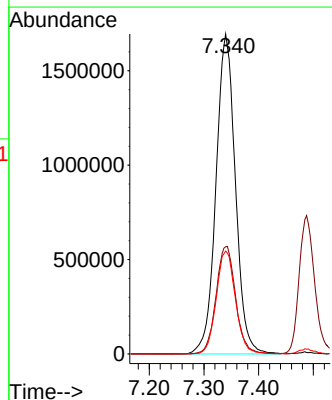
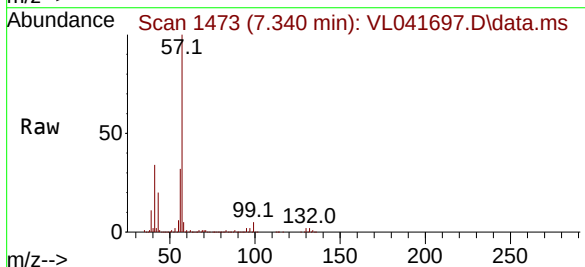
Tgt Ion: 57 Resp: 4173715

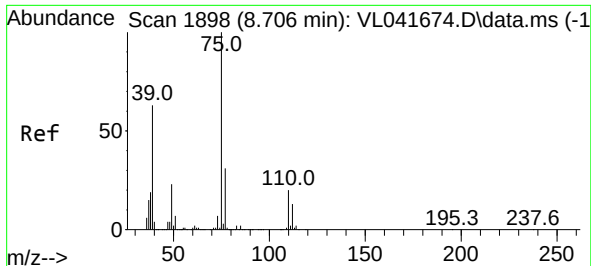
Ion Ratio Lower Upper

57 100

41 33.7 27.0 40.6

56 31.9 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 12.663 ppbv

RT: 8.725 min Scan# 1904

Delta R.T. 0.019 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Instrument :

MSVOA\_L

ClientSampleId :

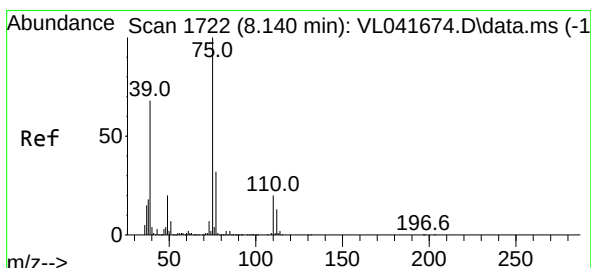
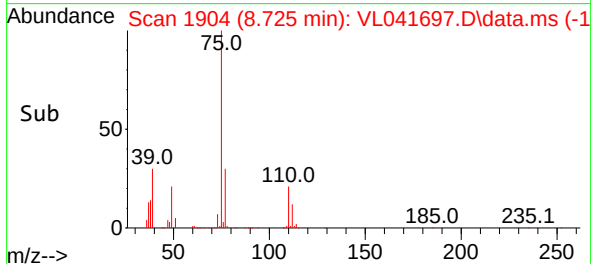
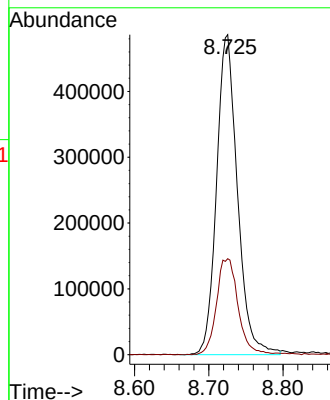
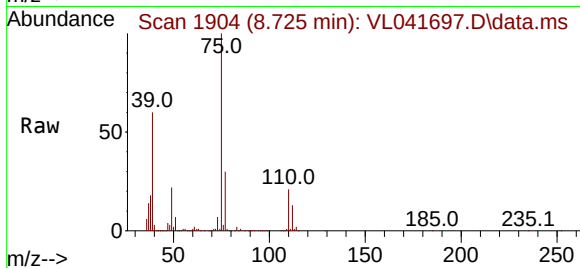
VSTDCCC010

Tgt Ion: 75 Resp: 949613

Ion Ratio Lower Upper

75 100

77 30.0 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 11.922 ppbv

RT: 8.156 min Scan# 1727

Delta R.T. 0.016 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

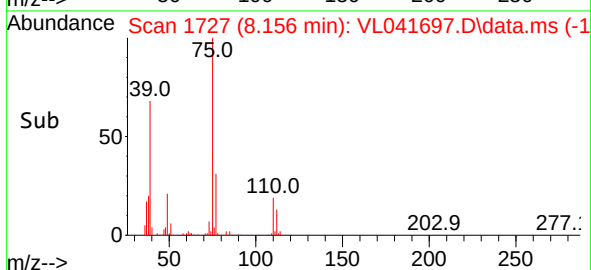
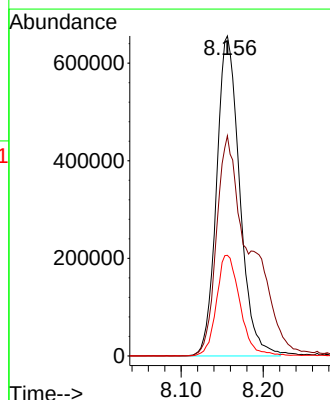
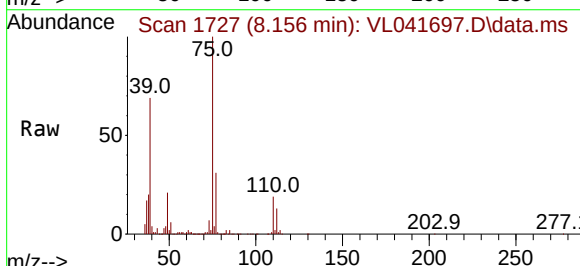
Tgt Ion: 75 Resp: 1284127

Ion Ratio Lower Upper

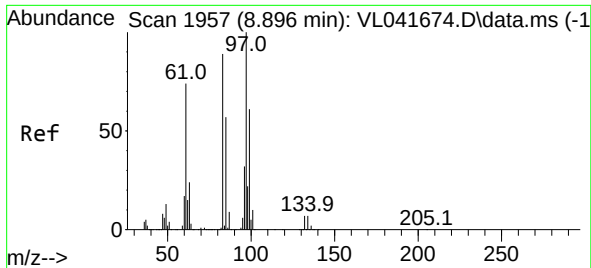
75 100

39 68.7 54.1 81.1

77 31.5 25.3 37.9





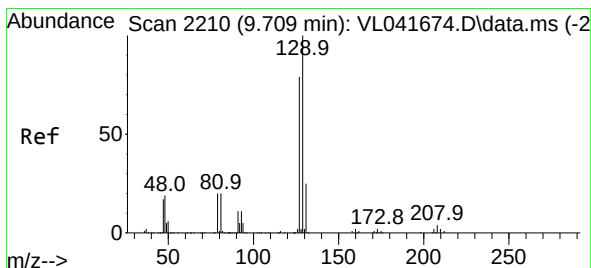
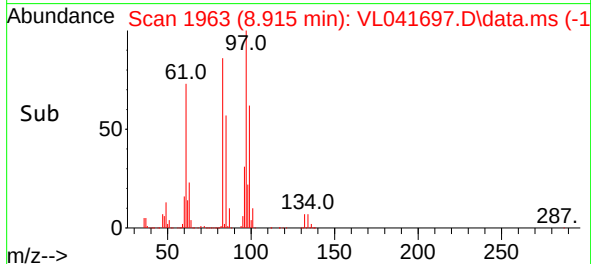
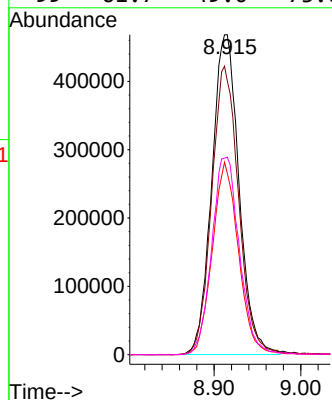
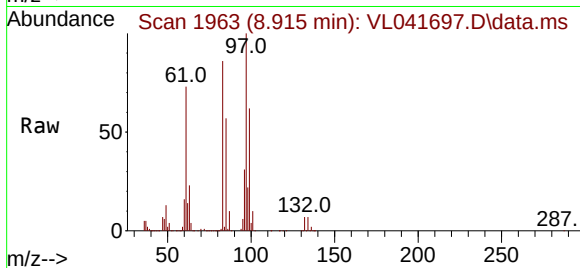


#47  
1,1,2-Trichloroethane  
Concen: 10.225 ppbv  
RT: 8.915 min Scan# 1957  
Delta R.T. 0.019 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 97 Resp: 1022170

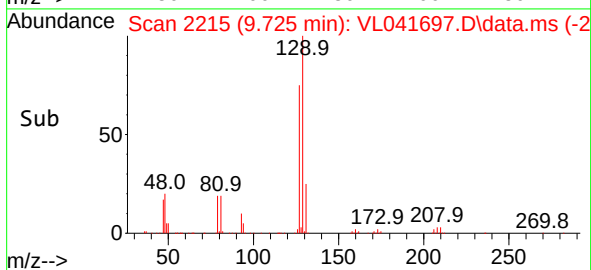
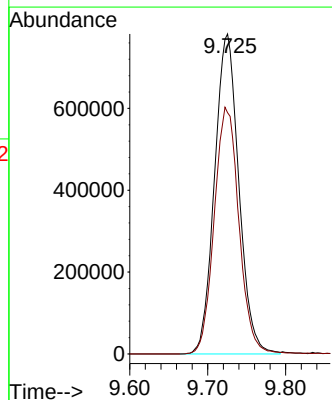
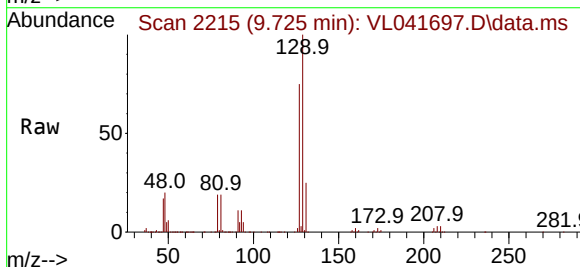
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 85.5  | 71.0  | 106.6 |
| 85  | 56.8  | 45.4  | 68.2  |
| 99  | 61.7  | 49.0  | 73.6  |

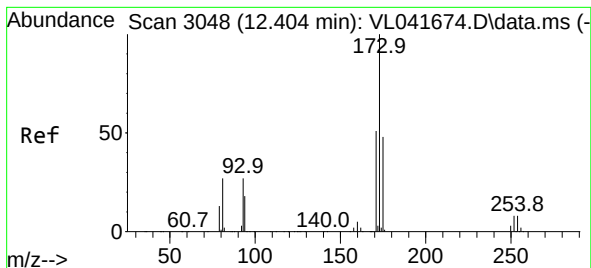


#48  
Dibromochloromethane  
Concen: 11.129 ppbv  
RT: 9.725 min Scan# 2215  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 129 Resp: 1691178

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.9  | 39.1  | 117.2 |





#49

Bromoform

Concen: 11.514 ppbv

RT: 12.420 min Scan# 3048

Delta R.T. 0.016 min

Lab File: VL041697.D

Acq: 20 Nov 2024 8:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

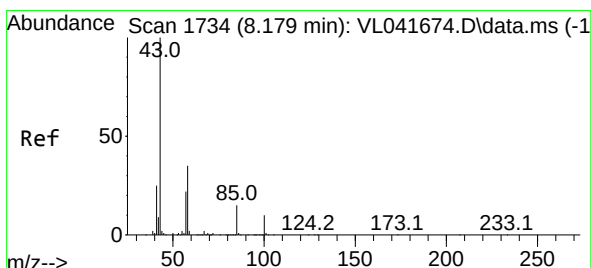
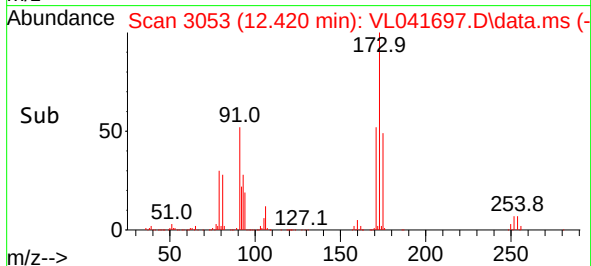
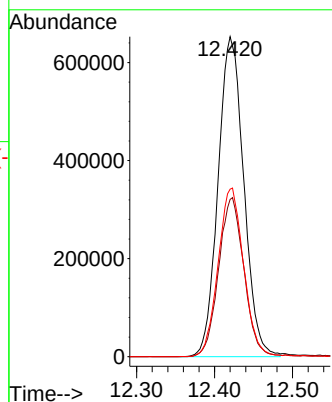
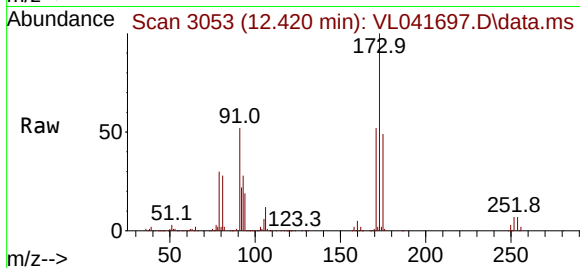
Tgt Ion:173 Resp: 1497113

Ion Ratio Lower Upper

173 100

175 49.4 39.2 58.8

171 52.5 41.7 62.5



#50

4-Methyl-2-Pentanone

Concen: 10.950 ppbv

RT: 8.192 min Scan# 1738

Delta R.T. 0.013 min

Lab File: VL041697.D

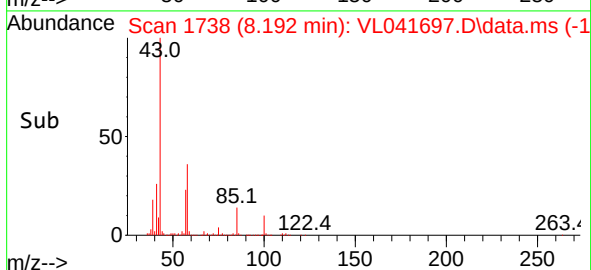
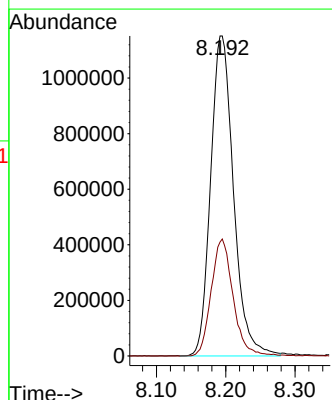
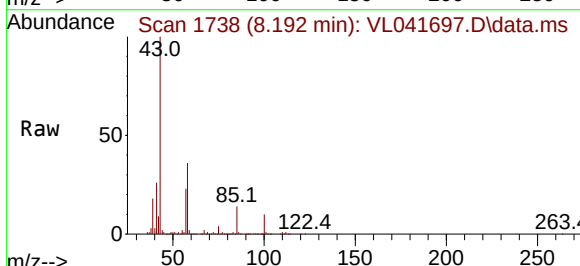
Acq: 20 Nov 2024 8:09

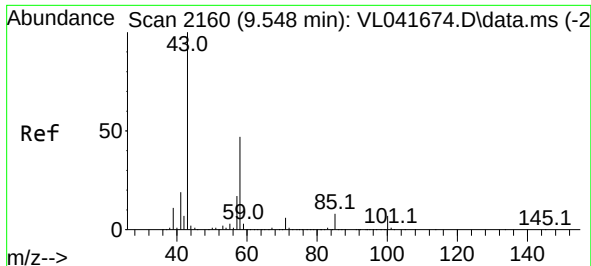
Tgt Ion: 43 Resp: 2640409

Ion Ratio Lower Upper

43 100

58 35.2 27.7 41.5

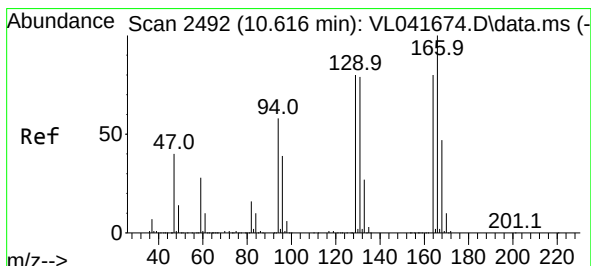
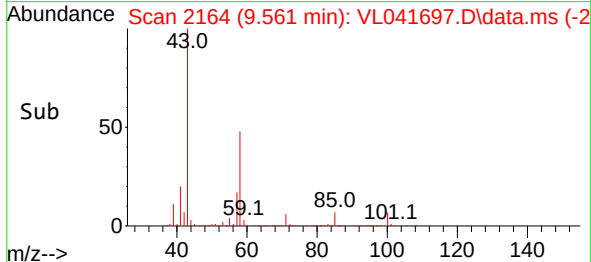
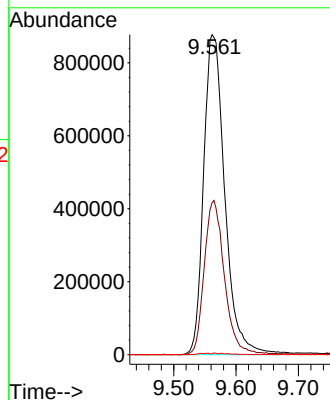
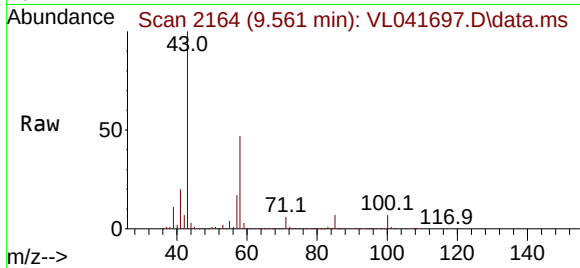




#51  
2-Hexanone  
Concen: 11.773 ppbv  
RT: 9.561 min Scan# 2160  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

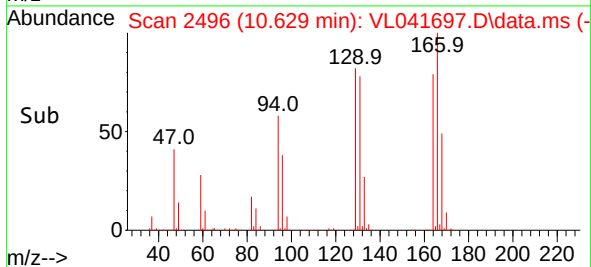
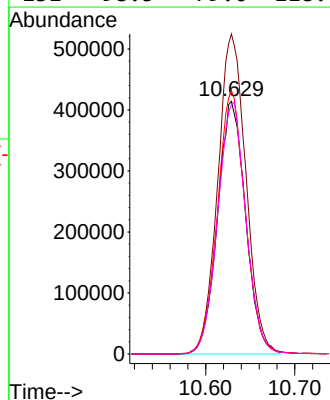
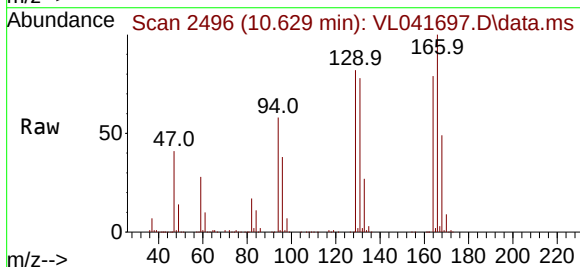
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

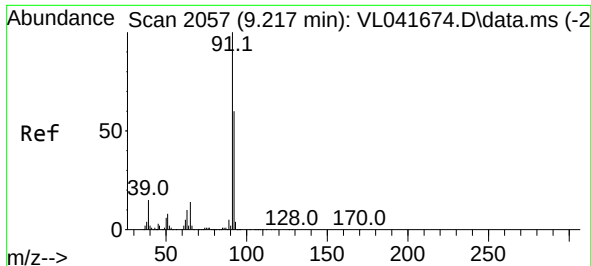
Tgt Ion: 43 Resp: 2067266  
Ion Ratio Lower Upper  
43 100  
58 46.3 37.0 55.6  
98 0.6 0.6 0.8



#52  
Tetrachloroethene  
Concen: 11.336 ppbv  
RT: 10.629 min Scan# 2496  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 164 Resp: 902967  
Ion Ratio Lower Upper  
164 100  
166 126.6 100.2 150.4  
129 104.2 79.7 119.5  
131 98.5 79.0 118.4

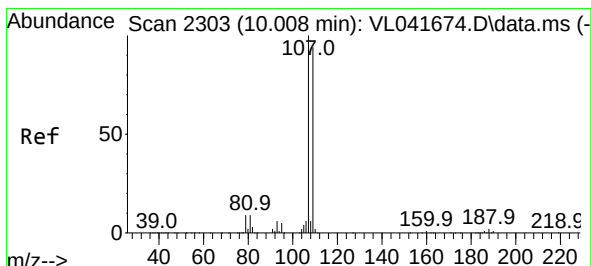
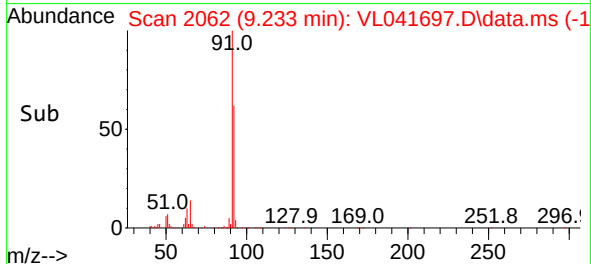
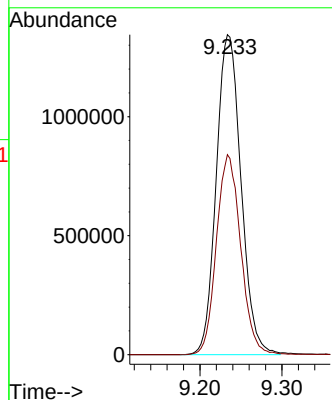
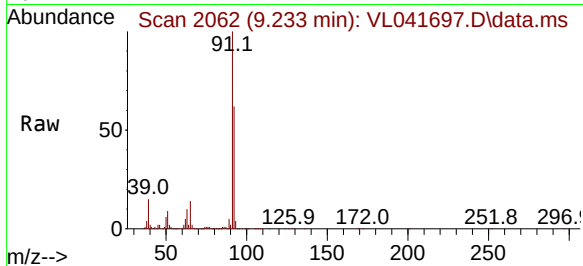




#53  
Toluene  
Concen: 11.509 ppbv  
RT: 9.233 min Scan# 2057  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

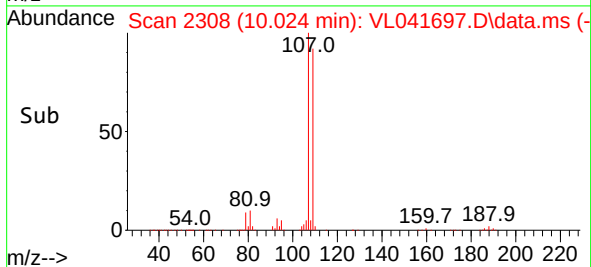
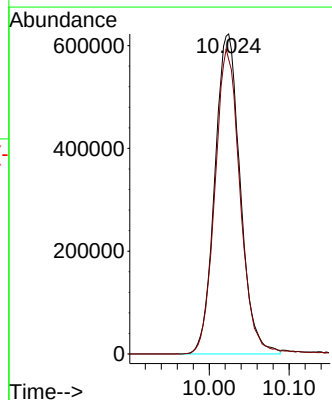
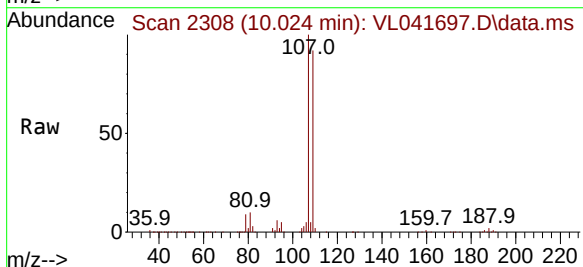
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

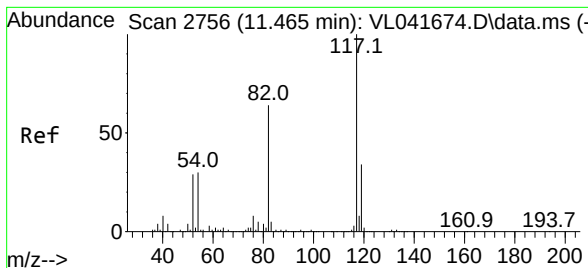
Tgt Ion: 91 Resp: 2828799  
Ion Ratio Lower Upper  
91 100  
92 61.3 49.0 73.4



#54  
1,2-Dibromoethane  
Concen: 11.753 ppbv  
RT: 10.024 min Scan# 2308  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 107 Resp: 1372700  
Ion Ratio Lower Upper  
107 100  
109 92.1 74.9 112.3

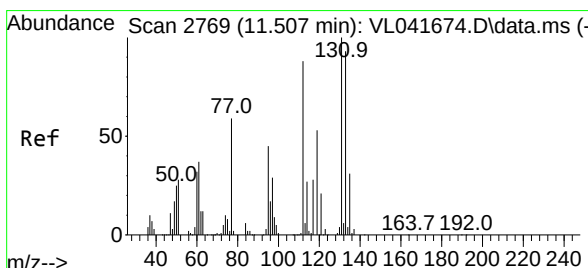
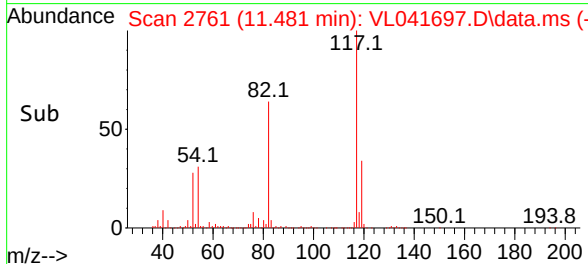
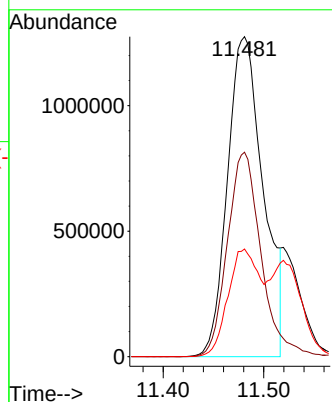
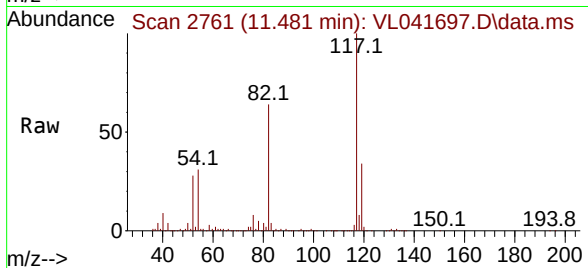




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.481 min Scan# 21  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

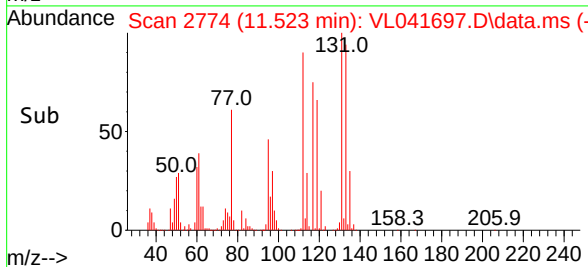
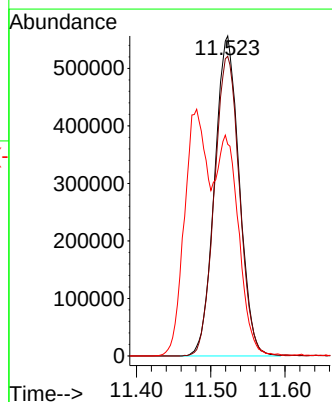
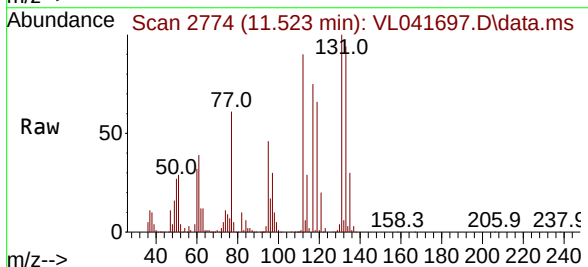
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

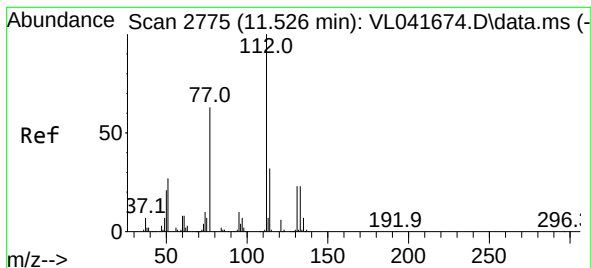
Tgt Ion:117 Resp: 3151187  
Ion Ratio Lower Upper  
117 100  
82 60.6 49.8 74.8  
119 31.4 24.2 36.4



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.877 ppbv  
RT: 11.523 min Scan# 2774  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion:131 Resp: 1283659  
Ion Ratio Lower Upper  
131 100  
133 95.7 76.5 114.7  
119 61.9 49.8 74.8

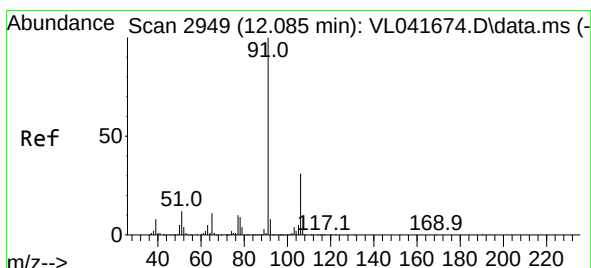
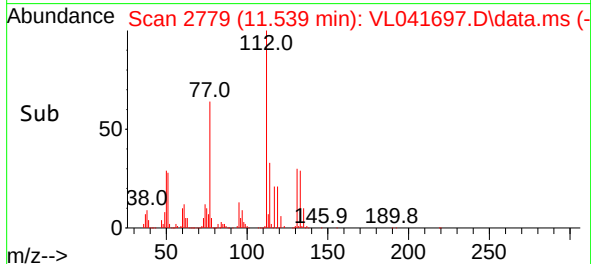
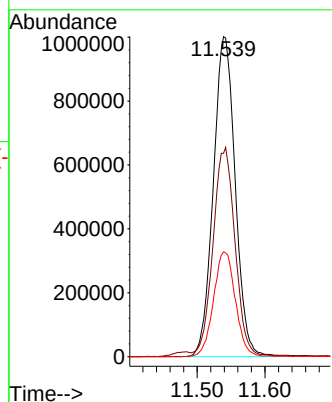
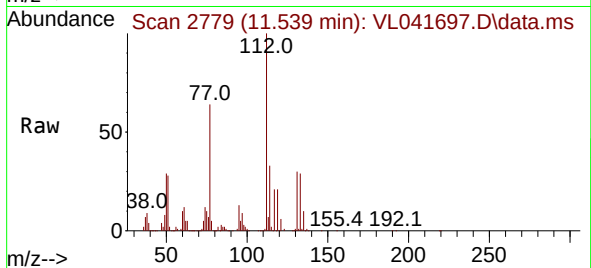




#57  
Chlorobenzene  
Concen: 9.643 ppbv  
RT: 11.539 min Scan# 211  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

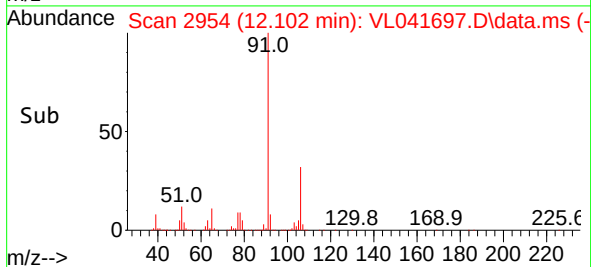
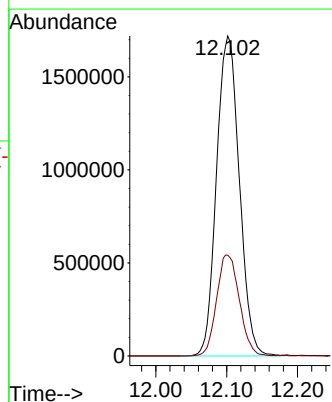
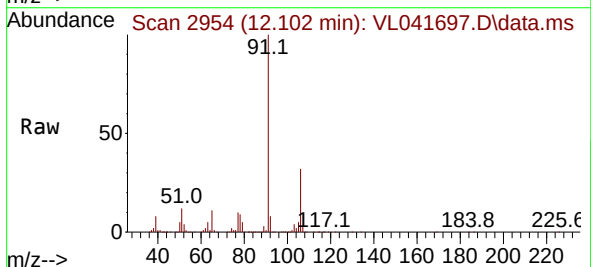
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

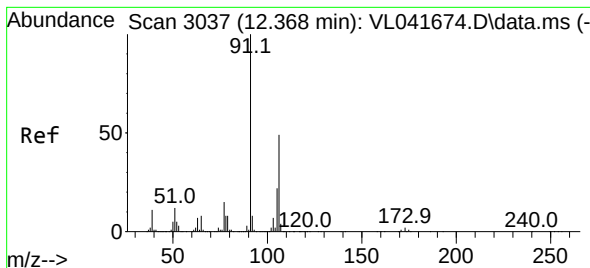
Tgt Ion:112 Resp: 2247475  
Ion Ratio Lower Upper  
112 100  
77 63.2 51.4 77.2  
114 32.8 28.4 34.8



#58  
Ethyl Benzene  
Concen: 11.125 ppbv  
RT: 12.102 min Scan# 2954  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 91 Resp: 3843108  
Ion Ratio Lower Upper  
91 100  
106 31.5 24.9 37.3

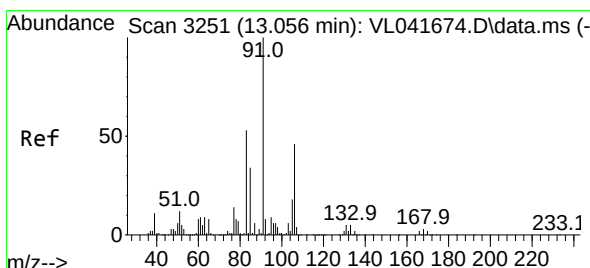
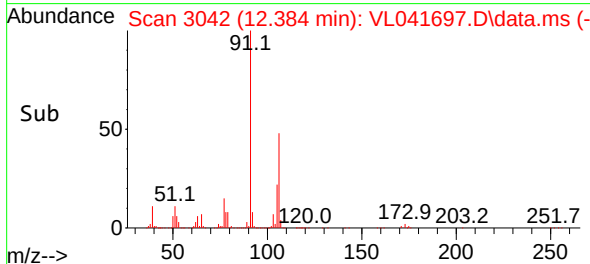
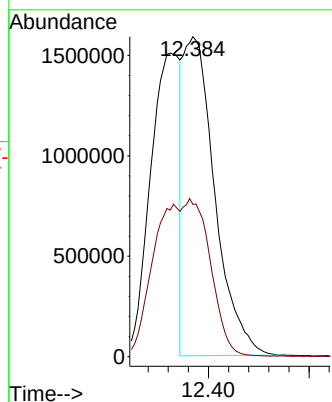
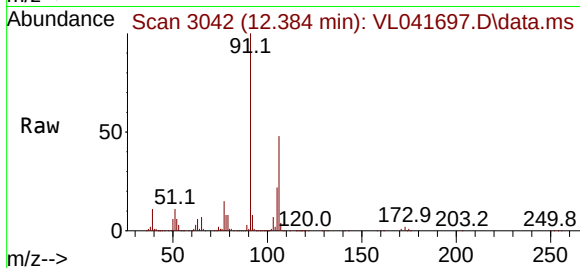




#59  
m/p-Xylene  
Concen: 11.188 ppbv  
RT: 12.384 min Scan# 3037  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

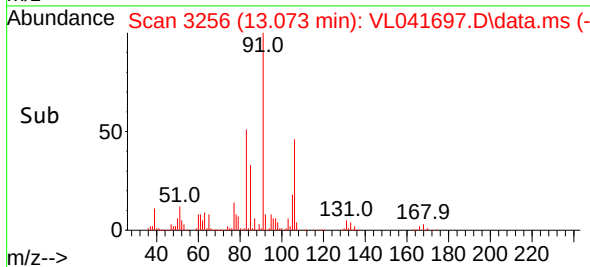
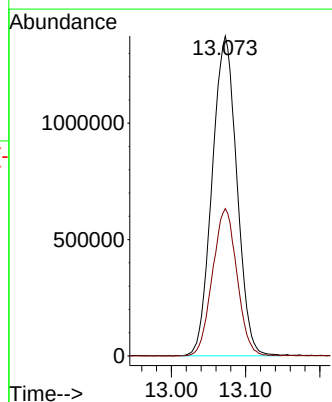
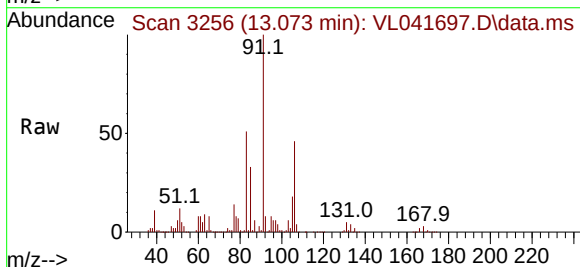
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

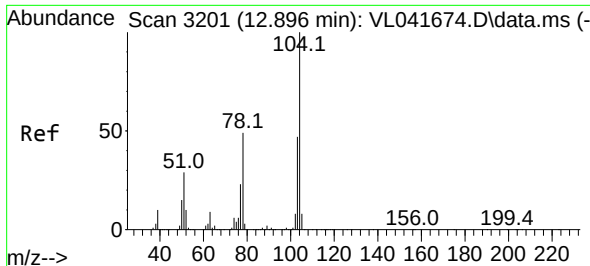
Tgt Ion: 91 Resp: 3461250  
Ion Ratio Lower Upper  
91 100  
106 86.8 36.9 55.3#



#60  
o-Xylene  
Concen: 10.765 ppbv  
RT: 13.073 min Scan# 3256  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 91 Resp: 3175724  
Ion Ratio Lower Upper  
91 100  
106 45.8 23.2 69.6

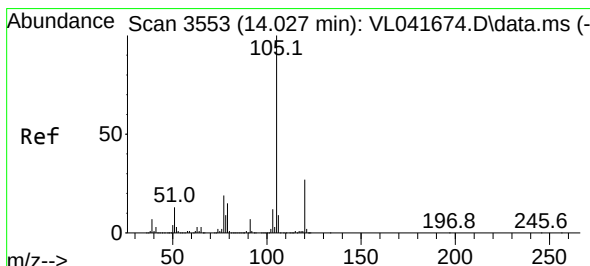
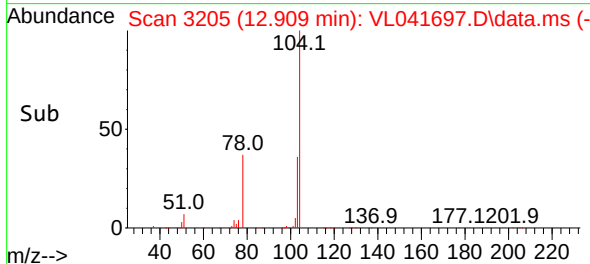
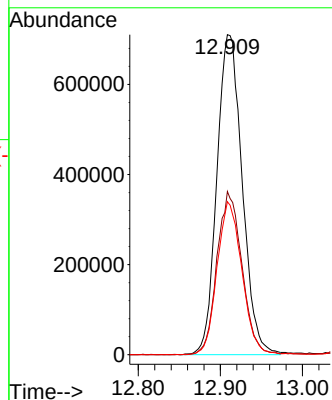
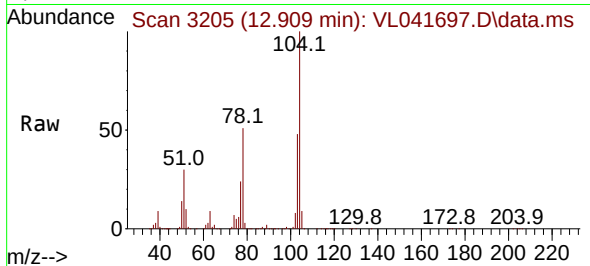




#61  
Styrene  
Concen: 12.528 ppbv  
RT: 12.909 min Scan# 31  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

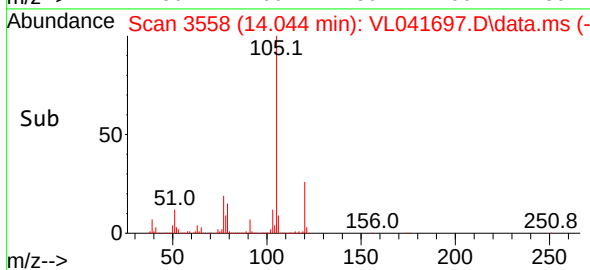
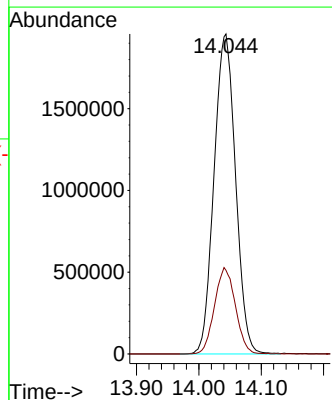
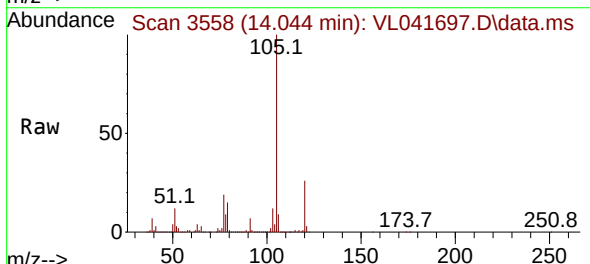
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:104 Resp: 1525338  
Ion Ratio Lower Upper  
104 100  
78 50.4 39.8 59.8  
103 47.1 37.4 56.0

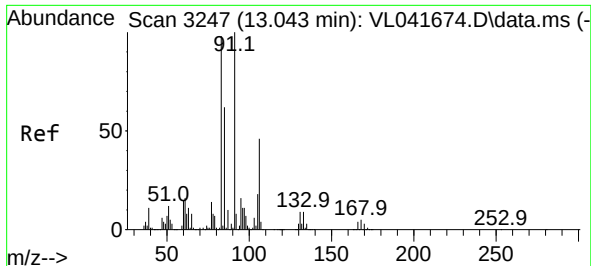


#62  
Isopropylbenzene  
Concen: 10.279 ppbv  
RT: 14.044 min Scan# 3558  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion:105 Resp: 4683267  
Ion Ratio Lower Upper  
105 100  
120 26.3 21.1 31.7



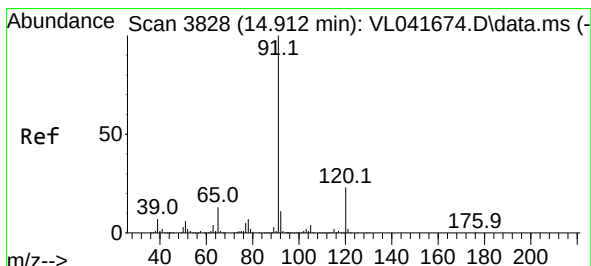
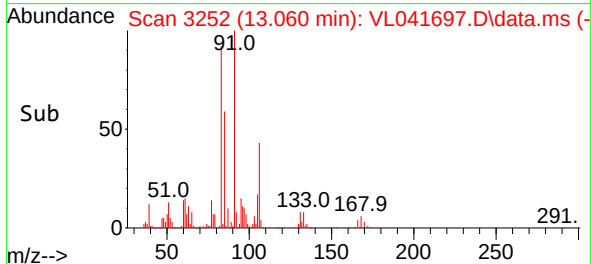
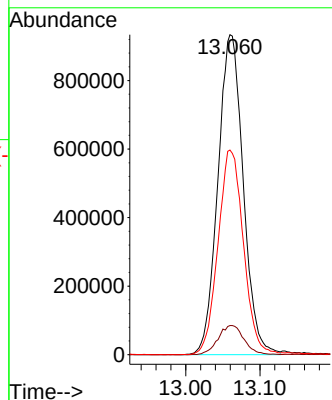
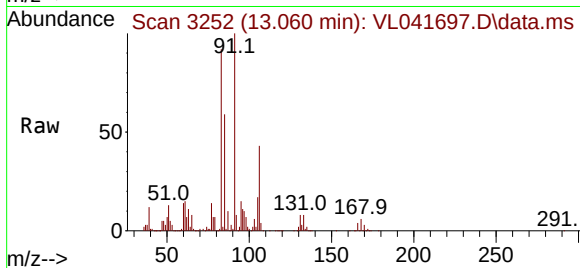




#63  
1,1,2,2-Tetrachloroethane  
Concen: 10.206 ppbv  
RT: 13.060 min Scan# 31  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

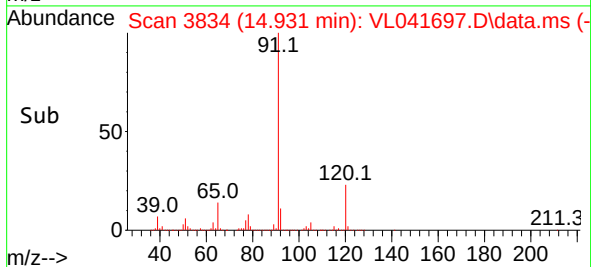
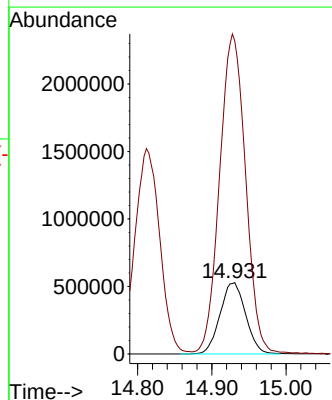
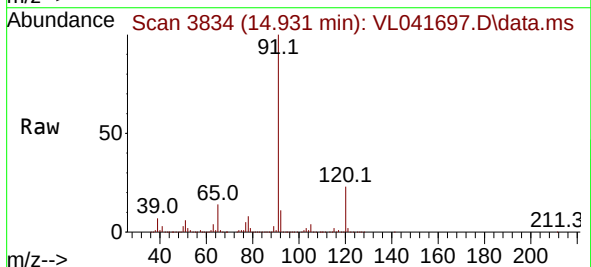
Instrument :  
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ClientSampleId :  
VSTDCCC010

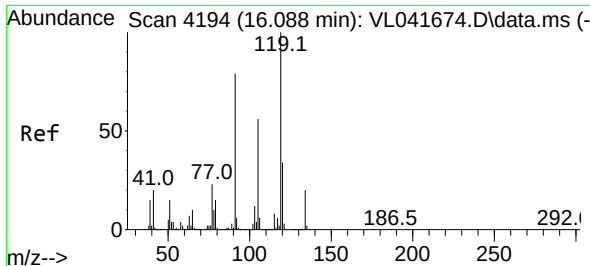
Tgt Ion: 83 Resp: 2214634  
Ion Ratio Lower Upper  
83 100  
131 9.4 4.8 14.3  
85 64.8 32.6 98.0



#64  
n-propylbenzene  
Concen: 10.613 ppbv  
RT: 14.931 min Scan# 3834  
Delta R.T. 0.019 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion:120 Resp: 1265758  
Ion Ratio Lower Upper  
120 100  
91 455.9 362.4 543.6

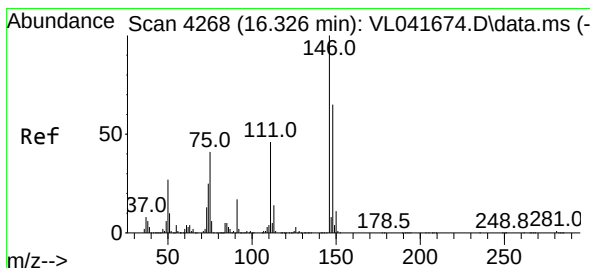
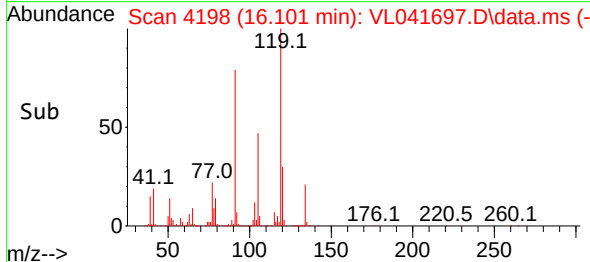
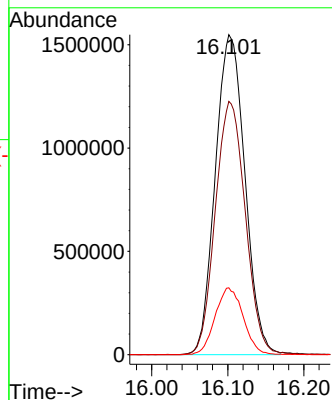
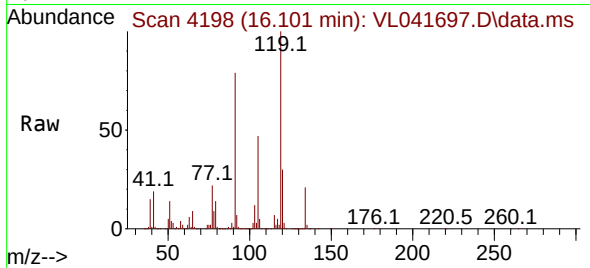




#65  
tert-Butylbenzene  
Concen: 10.232 ppbv  
RT: 16.101 min Scan# 4194  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

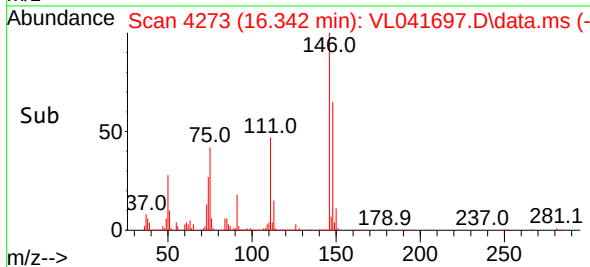
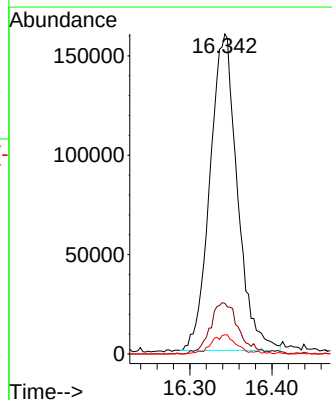
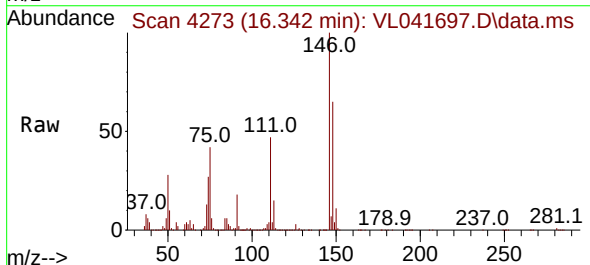
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

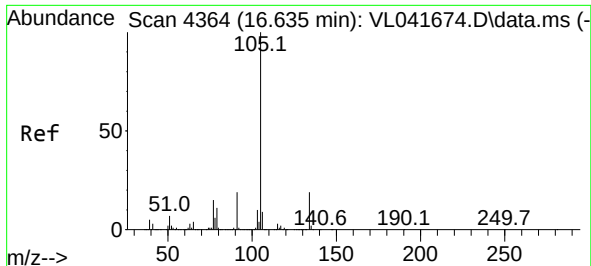
Tgt Ion:119 Resp: 4189774  
Ion Ratio Lower Upper  
119 100  
91 80.4 64.3 96.5  
134 19.9 15.8 23.8



#66  
Benzyl Chloride  
Concen: 11.768 ppbv  
RT: 16.342 min Scan# 4273  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 91 Resp: 370716  
Ion Ratio Lower Upper  
91 100  
126 17.4 13.8 20.6  
128 5.8 4.3 6.5

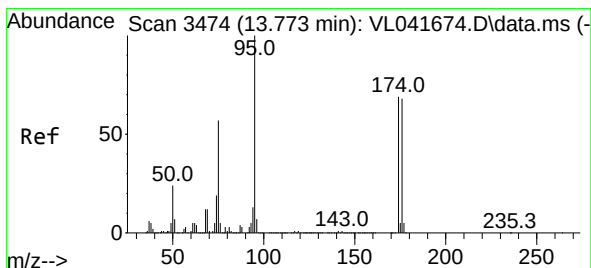
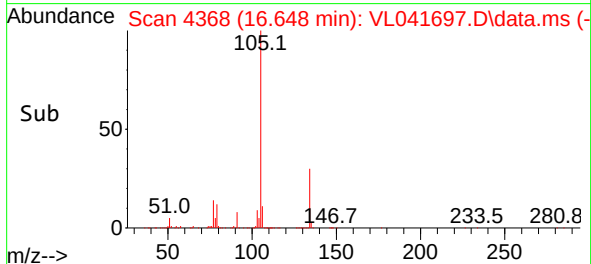
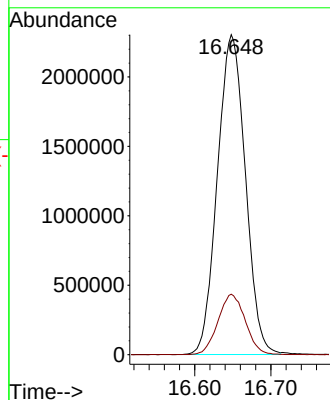
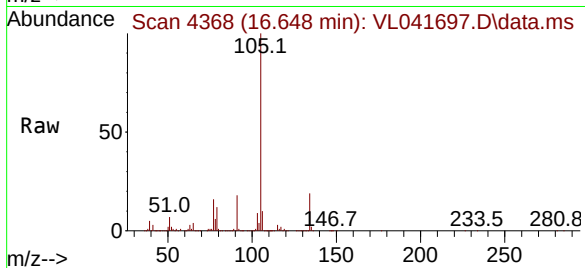




#67  
sec-Butylbenzene  
Concen: 10.193 ppbv  
RT: 16.648 min Scan# 41  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

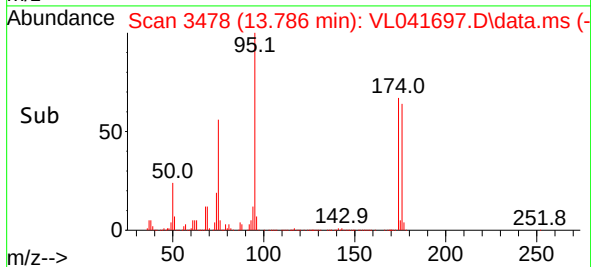
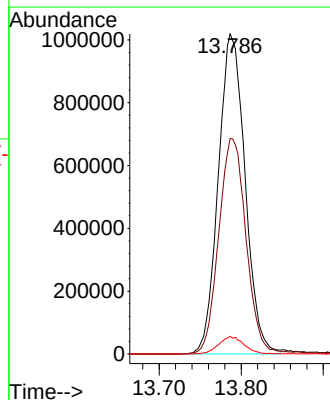
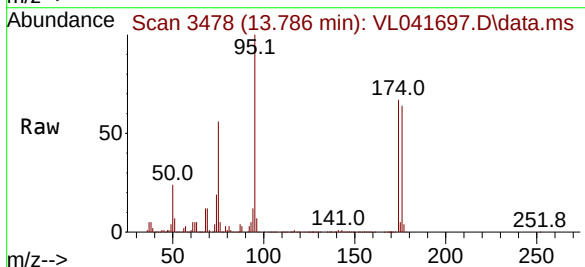
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

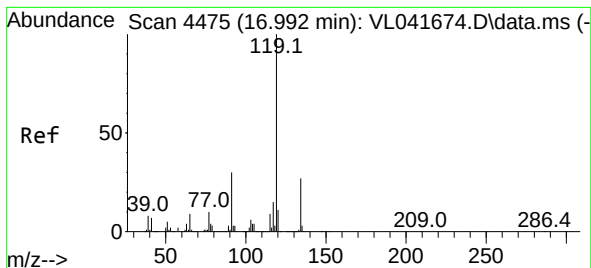
Tgt Ion:105 Resp: 5882804  
Ion Ratio Lower Upper  
105 100  
134 18.5 14.6 22.0



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.949 ppbv  
RT: 13.786 min Scan# 3478  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 95 Resp: 2309915  
Ion Ratio Lower Upper  
95 100  
174 69.5 55.6 83.4  
175 5.2 4.2 6.2

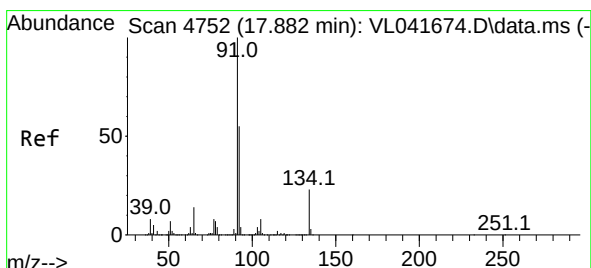
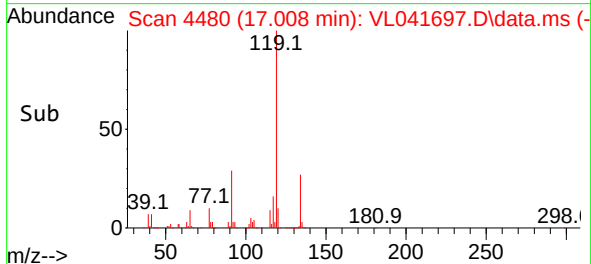
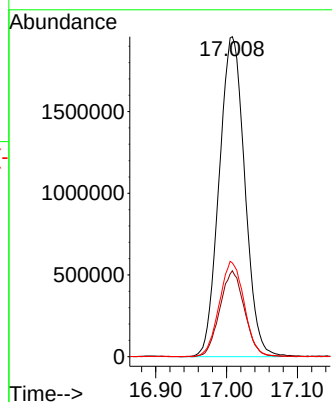
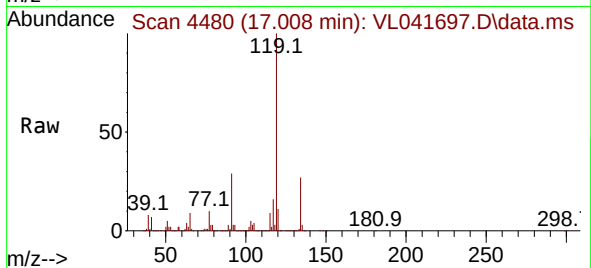




#69  
p-Isopropyltoluene  
Concen: 10.526 ppbv  
RT: 17.008 min Scan# 4475  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

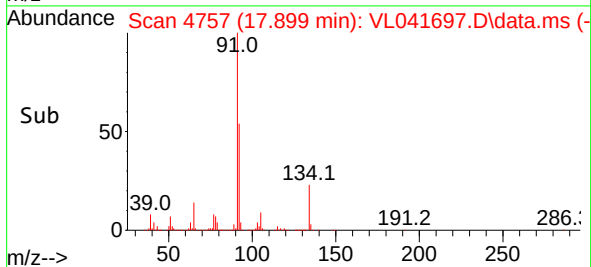
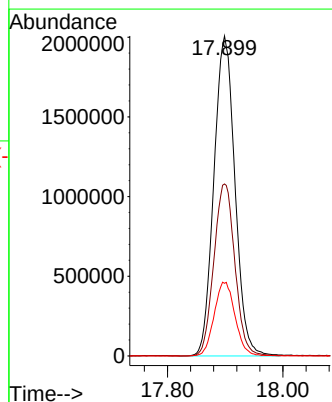
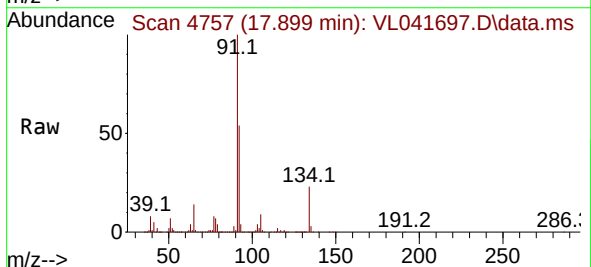
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

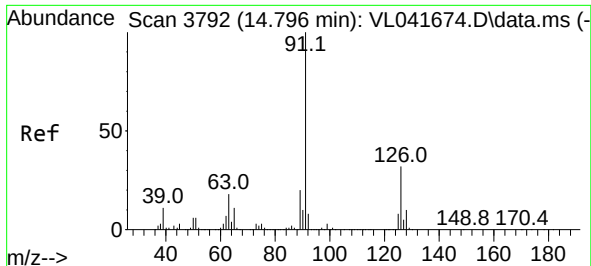
Tgt Ion:119 Resp: 4911348  
Ion Ratio Lower Upper  
119 100  
134 25.9 20.8 31.2  
91 29.2 23.2 34.8



#70  
n-Butylbenzene  
Concen: 10.634 ppbv  
RT: 17.899 min Scan# 4757  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 91 Resp: 5076678  
Ion Ratio Lower Upper  
91 100  
92 53.9 43.3 64.9  
134 23.0 18.4 27.6

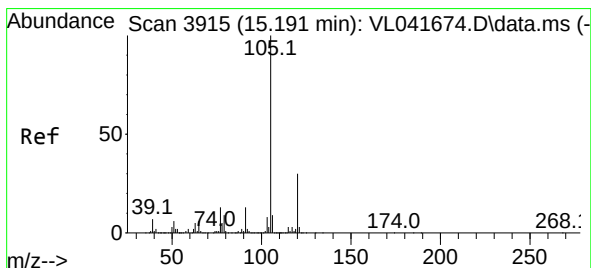
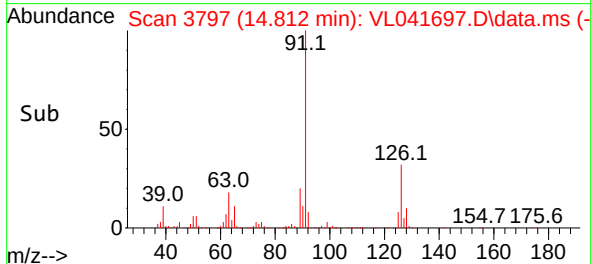
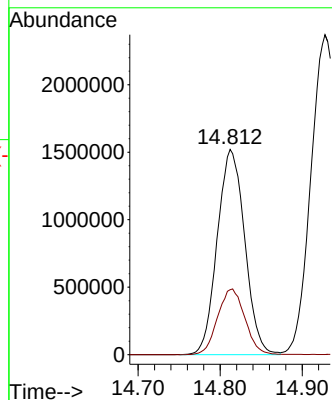
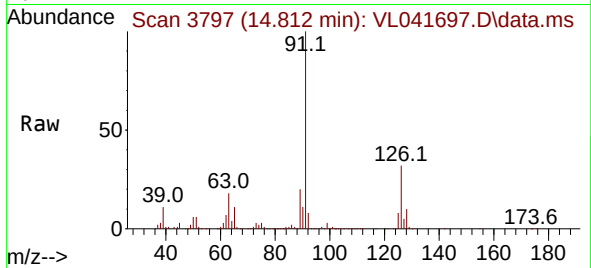




#71  
2-Chlorotoluene  
Concen: 10.754 ppbv  
RT: 14.812 min Scan# 31  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

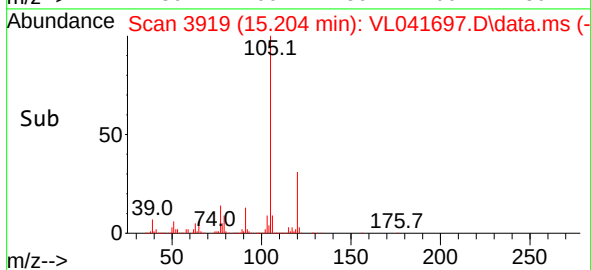
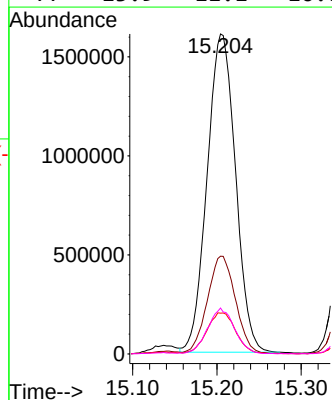
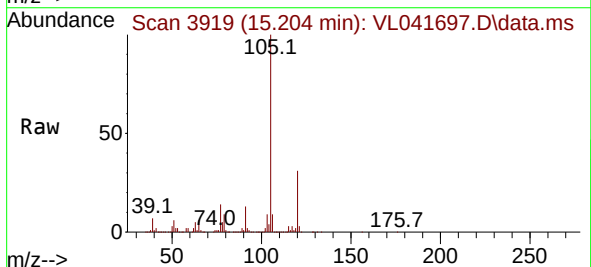
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

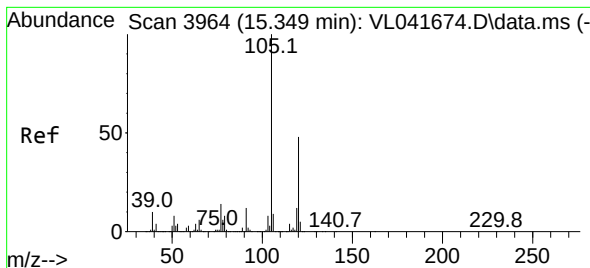
Tgt Ion: 91 Resp: 3541658  
Ion Ratio Lower Upper  
91 100  
126 31.9 12.8 51.0



#72  
4-Ethyltoluene  
Concen: 10.987 ppbv  
RT: 15.204 min Scan# 3919  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion: 105 Resp: 3768131  
Ion Ratio Lower Upper  
105 100  
120 31.4 25.0 37.4  
91 13.7 10.6 15.8  
77 13.9 11.1 16.7

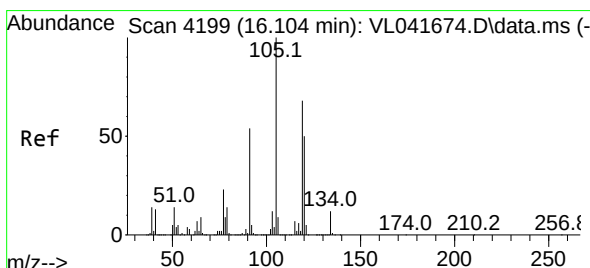
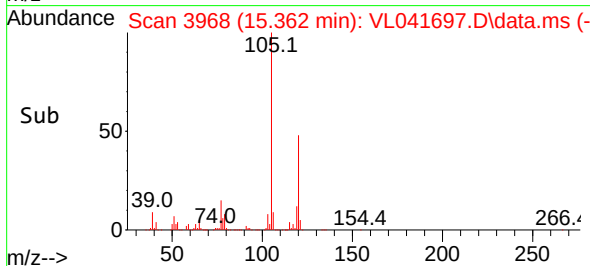
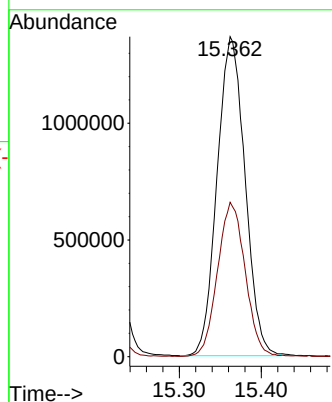
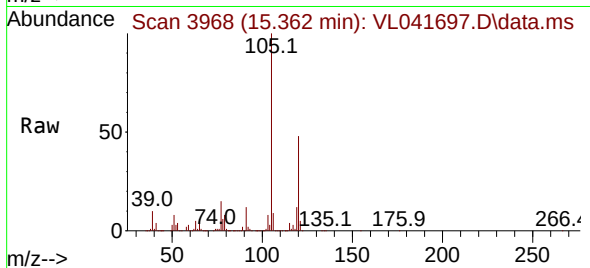




#73  
 1,3,5-Trimethylbenzene  
 Concen: 10.734 ppbv  
 RT: 15.362 min Scan# 3964  
 Delta R.T. 0.013 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

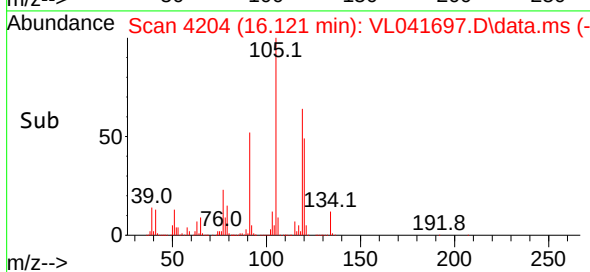
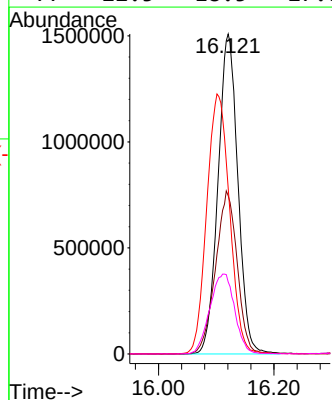
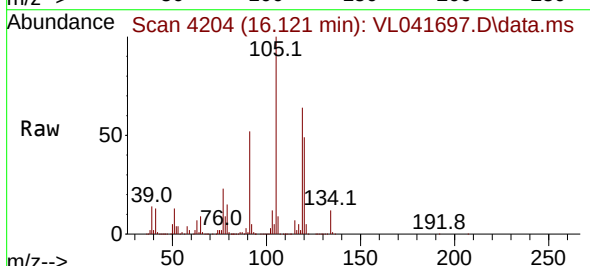
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

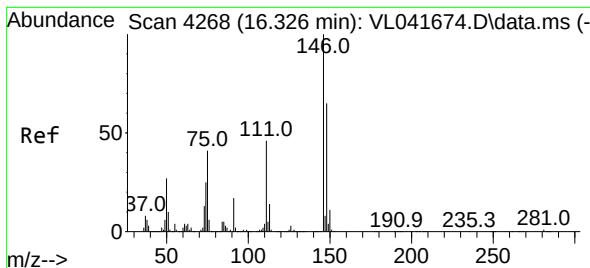
Tgt Ion:105 Resp: 3230569  
 Ion Ratio Lower Upper  
 105 100  
 120 48.3 38.4 57.6



#74  
 1,2,4-Trimethylbenzene  
 Concen: 10.295 ppbv  
 RT: 16.121 min Scan# 4204  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

Tgt Ion:105 Resp: 3599066  
 Ion Ratio Lower Upper  
 105 100  
 120 49.4 39.8 59.8  
 91 51.8 43.2 64.8  
 77 22.5 18.5 27.7

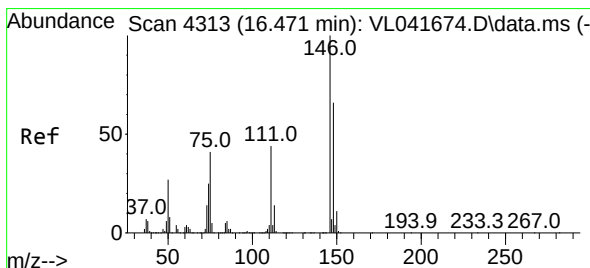
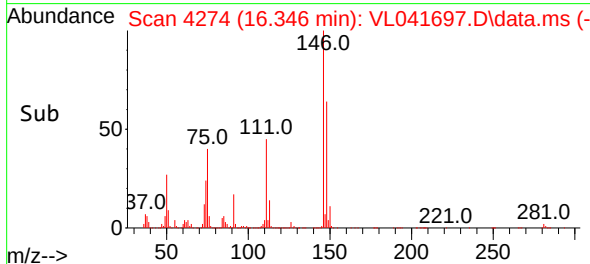
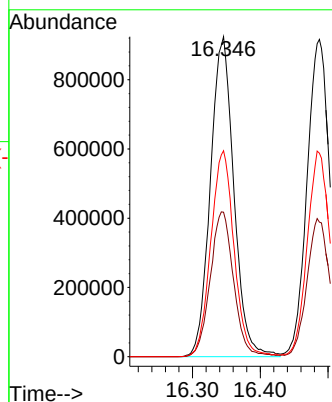
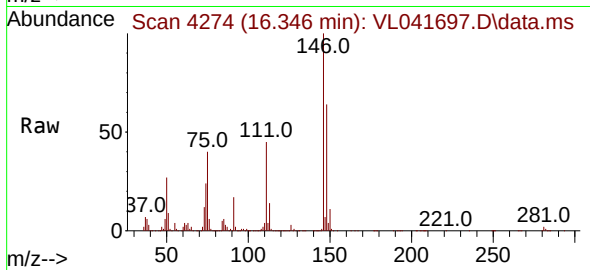




#75  
1,3-Dichlorobenzene  
Concen: 10.258 ppbv  
RT: 16.346 min Scan# 41  
Delta R.T. 0.019 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

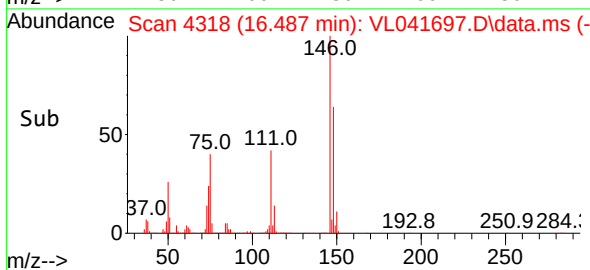
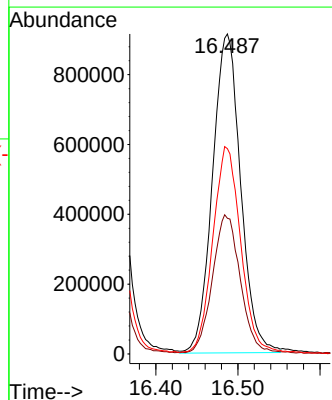
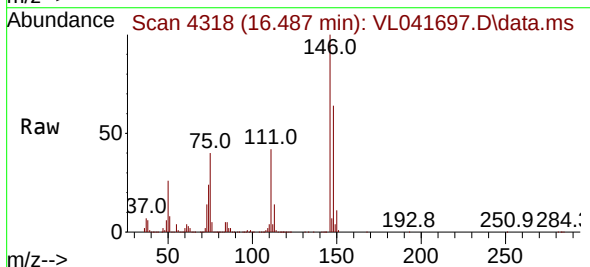
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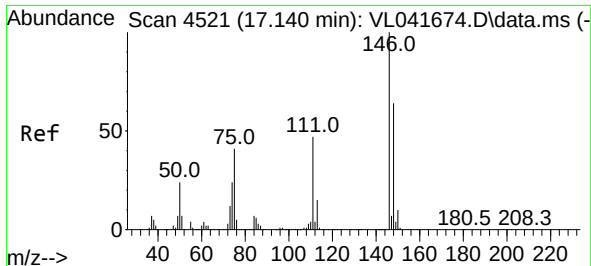
Tgt Ion:146 Resp: 2220877  
Ion Ratio Lower Upper  
146 100  
111 45.1 22.8 68.3  
148 64.0 32.4 97.0



#76  
1,4-Dichlorobenzene  
Concen: 10.453 ppbv  
RT: 16.487 min Scan# 4318  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion:146 Resp: 2183586  
Ion Ratio Lower Upper  
146 100  
111 43.7 22.1 66.3  
148 64.5 33.3 99.8

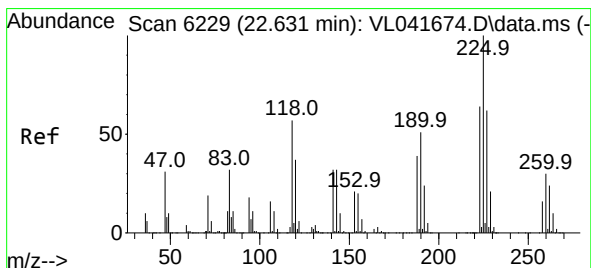
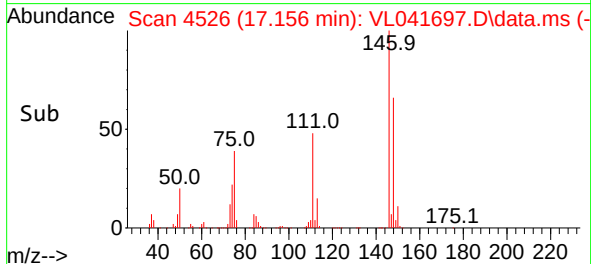
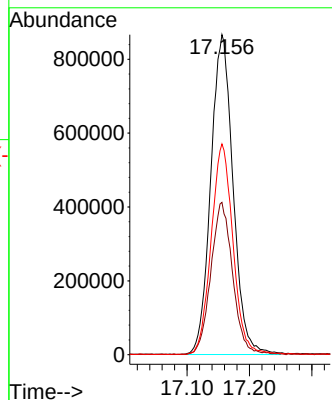
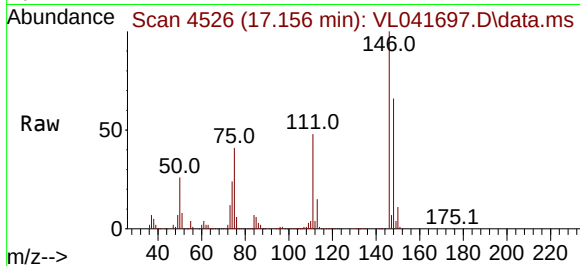




#77  
1,2-Dichlorobenzene  
Concen: 10.020 ppbv  
RT: 17.156 min Scan# 411  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

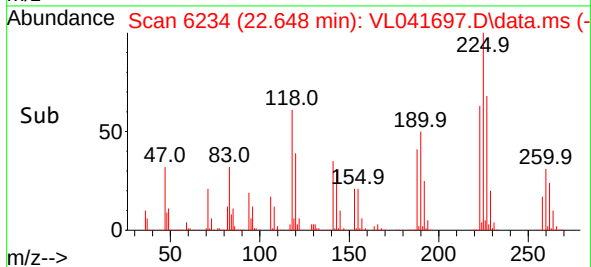
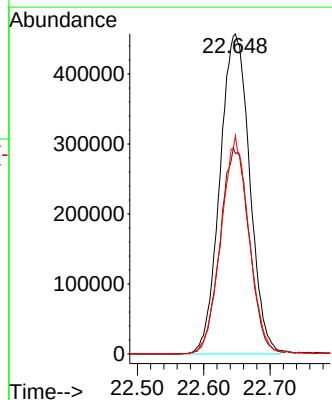
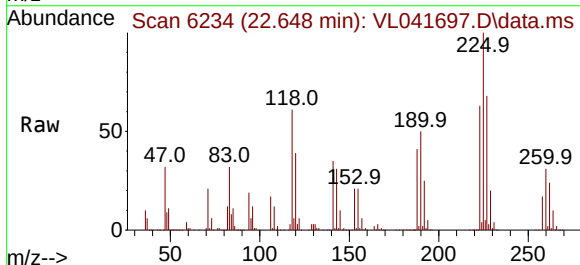
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:146 Resp: 2149012  
Ion Ratio Lower Upper  
146 100  
111 46.5 23.4 70.3  
148 64.8 32.1 96.5

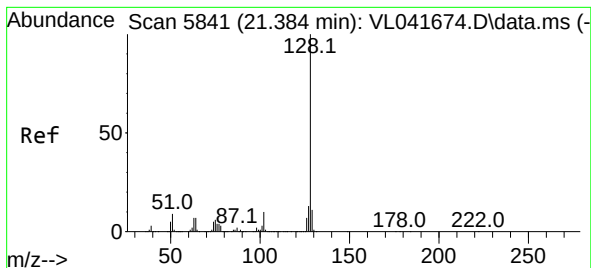


#78  
Hexachloro-1,3-Butadiene  
Concen: 8.400 ppbv  
RT: 22.648 min Scan# 6234  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

Tgt Ion:225 Resp: 1424868  
Ion Ratio Lower Upper  
225 100  
223 63.6 51.1 76.7  
227 64.4 51.3 76.9



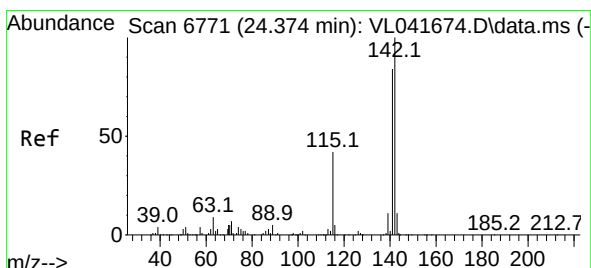
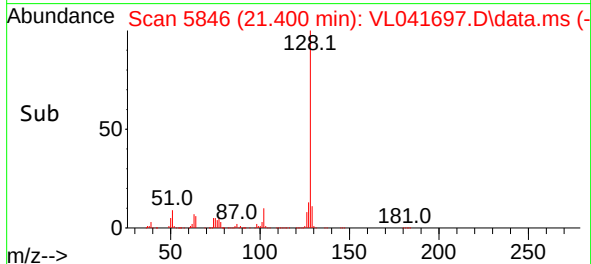
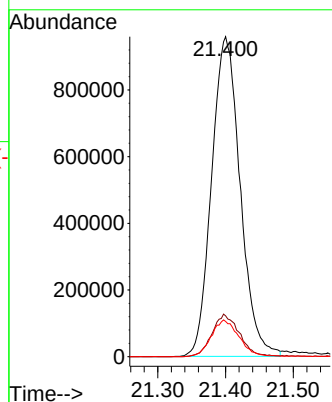
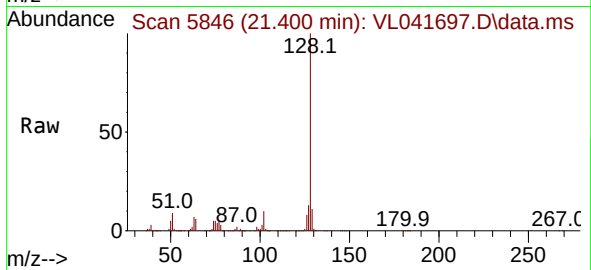




#79  
Naphthalene  
Concen: 13.008 ppbv  
RT: 21.400 min Scan# 5846  
Delta R.T. 0.016 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

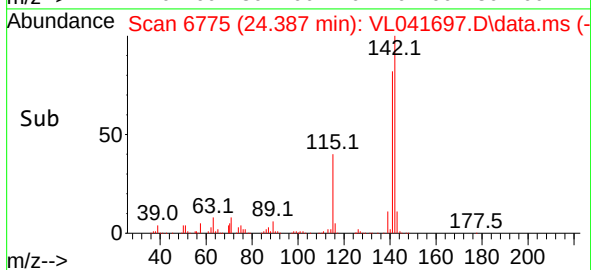
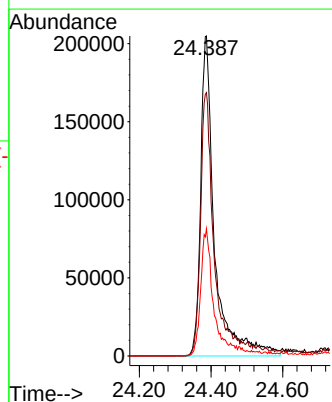
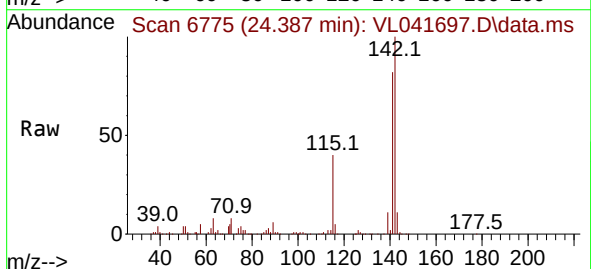
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

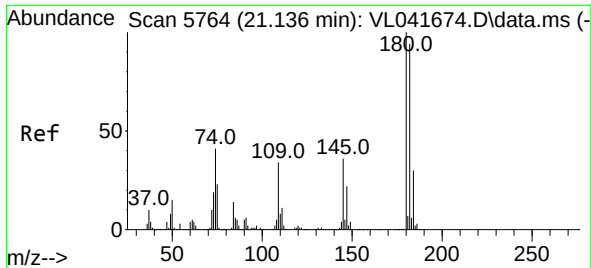
Tgt Ion:128 Resp: 2807004  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.5 15.7  
129 11.0 8.7 13.1



#80  
Naphthalene,2-methyl-  
Concen: 11.811 ppbv  
RT: 24.387 min Scan# 6775  
Delta R.T. 0.013 min  
Lab File: VL041697.D  
Acq: 20 Nov 2024 8:09

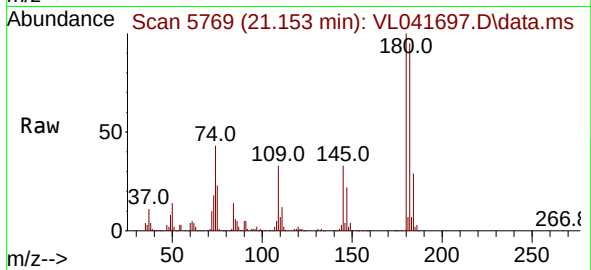
Tgt Ion:142 Resp: 555593  
Ion Ratio Lower Upper  
142 100  
141 83.0 68.1 102.1  
115 39.5 33.1 49.7





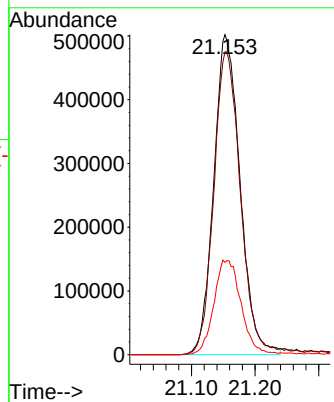
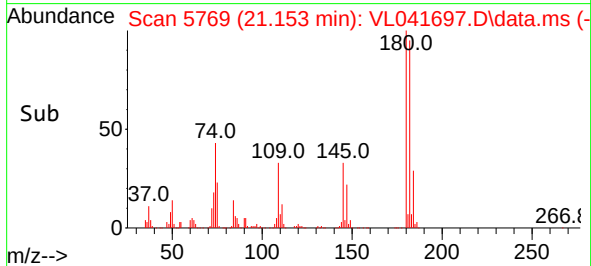
#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.624 ppbv  
 RT: 21.153 min Scan# 51  
 Delta R.T. 0.016 min  
 Lab File: VL041697.D  
 Acq: 20 Nov 2024 8:09

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



Tgt Ion:180 Resp: 1441690  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 96.9  | 78.2  | 117.2 |
| 184 | 30.7  | 25.0  | 37.4  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112024\  
 Data File : VL041699.D  
 Acq On : 20 Nov 2024 13:15  
 Operator : SY/MD  
 Sample : VL1120ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1120ABS01

Quant Time: Nov 21 05:09:19 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.208  | 49    | 1163679  | 10.000   | ppbv   | 0.02     |
| 33) 1,4-Difluorobenzene       | 6.671  | 114   | 3239097  | 10.000   | ppbv   | 0.02     |
| 55) Chlorobenzene-d5          | 11.484 | 117   | 3750301  | 10.000   | ppbv   | 0.02     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 13.793 | 95    | 2329378  | 8.430    | ppbv   | 0.02     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 84.300%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.745  | 85    | 1526580  | 7.258    | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 2.687  | 51    | 1354532  | 8.934    | ppbv   | 99       |
| 4) Chloromethane              | 2.829  | 50    | 744862   | 9.275    | ppbv   | 96       |
| 5) Vinyl Chloride             | 2.935  | 62    | 719166   | 9.955    | ppbv   | 100      |
| 6) Bromomethane               | 3.134  | 94    | 362376   | 9.456    | ppbv   | 99       |
| 7) Chloroethane               | 3.211  | 64    | 242910   | 9.213    | ppbv   | 99       |
| 8) Dichlorotetrafluoroethane  | 2.870  | 85    | 1692833  | 9.016    | ppbv   | 99       |
| 9) Propene                    | 2.710  | 41    | 596424   | 9.028    | ppbv   | 100      |
| 10) Heptane                   | 7.594  | 43    | 1524430  | 10.297   | ppbv   | 99       |
| 11) Trichlorofluoromethane    | 3.578  | 101   | 1716777  | 9.371    | ppbv   | 97       |
| 12) 1,1,2-Trichlorotrifluo... | 4.083  | 101   | 1253402  | 9.413    | ppbv   | 99       |
| 13) Ethanol                   | 3.263  | 45    | 28536    | 7.054    | ppbv   | 80       |
| 14) Bromoethene               | 3.382  | 108   | 504396   | 9.423    | ppbv   | 98       |
| 15) Acetone                   | 3.481  | 43    | 1306457  | 9.122    | ppbv   | 100      |
| 16) 1,3-Butadiene             | 2.999  | 39    | 715603   | 9.903    | ppbv   | 100      |
| 17) tert-Butyl alcohol        | 3.893  | 59    | 1194748  | 9.507    | ppbv   | 99       |
| 18) 1,1-Dichloroethene        | 3.893  | 96    | 557361   | 9.544    | ppbv   | 94       |
| 19) Isopropyl Alcohol         | 3.591  | 45    | 622976   | 9.101    | ppbv   | 98       |
| 20) Methylene Chloride        | 3.947  | 84    | 468186   | 8.884    | ppbv   | 97       |
| 21) Allyl Chloride            | 4.012  | 41    | 874140   | 9.878    | ppbv   | 99       |
| 22) trans-1,2-Dichloroethene  | 4.462  | 96    | 552930   | 9.522    | ppbv   | 96       |
| 23) Vinyl Acetate             | 4.642  | 43    | 578556   | 9.164    | ppbv   | 99       |
| 24) 1,1-Dichloroethane        | 4.578  | 63    | 1200413  | 9.261    | ppbv   | 99       |
| 25) Ethyl Acetate             | 5.221  | 43    | 2817969  | 9.506    | ppbv   | 100      |
| 26) Hexane                    | 5.227  | 57    | 1108983  | 9.737    | ppbv   | 99       |
| 27) Carbon Disulfide          | 4.140  | 76    | 1366173  | 10.677   | ppbv   | 100      |
| 28) Methyl tert-Butyl Ether   | 4.600  | 73    | 647293   | 8.826    | ppbv   | 99       |
| 29) Chloroform                | 5.291  | 83    | 1773915  | 9.436    | ppbv   | 100      |
| 30) Cyclohexane               | 6.619  | 84    | 951807   | 9.815    | ppbv   | 99       |
| 31) cis-1,2-Dichloroethene    | 5.095  | 61    | 1074877  | 9.810    | ppbv   | 99       |
| 32) 1,1,1-Trichloroethane     | 6.018  | 97    | 1728793  | 10.080   | ppbv   | 99       |
| 34) 2-Butanone                | 4.800  | 43    | 1501583  | 9.310    | ppbv   | 99       |
| 35) Carbon Tetrachloride      | 6.510  | 117   | 1826480  | 10.688   | ppbv   | 99       |
| 36) Benzene                   | 6.388  | 78    | 2387291  | 9.947    | ppbv   | 99       |
| 37) 1,2-Dichloroethane        | 5.822  | 62    | 1319263  | 9.744    | ppbv   | 99       |
| 38) Trichloroethene           | 7.307  | 130   | 980257   | 10.635   | ppbv   | 99       |
| 39) 1,2-Dichloropropane       | 7.092  | 63    | 925581   | 9.759    | ppbv   | 98       |
| 40) 1,4-Dioxane               | 7.301  | 88    | 360556   | 10.596   | ppbv   | 99       |
| 41) Tetrahydrofuran           | 5.571  | 42    | 944780   | 10.257   | ppbv   | 99       |
| 42) Bromodichloromethane      | 7.269  | 83    | 1909198  | 10.147   | ppbv   | 99       |
| 43) Methyl Methacrylate       | 7.491  | 69    | 920452   | 10.923   | ppbv   | 99       |
| 44) 2,2,4-Trimethylpentane    | 7.343  | 57    | 4048166  | 9.958    | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 8.729  | 75    | 880781   | 11.439   | ppbv   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112024\  
 Data File : VL041699.D  
 Acq On : 20 Nov 2024 13:15  
 Operator : SY/MD  
 Sample : VL1120ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

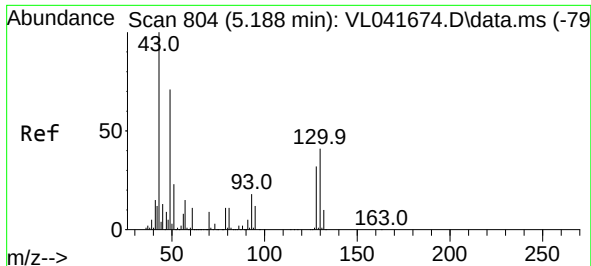
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1120ABS01

Quant Time: Nov 21 05:09:19 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 01:01:00 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.160  | 75   | 1226432  | 11.089 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 8.918  | 97   | 1003450  | 9.776  | ppbv   | 98       |
| 48) Dibromochloromethane      | 9.729  | 129  | 1658425  | 10.628 | ppbv   | 100      |
| 49) Bromoform                 | 12.423 | 173  | 1485005  | 11.123 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.198  | 43   | 2593146  | 10.473 | ppbv   | 100      |
| 51) 2-Hexanone                | 9.568  | 43   | 2018735  | 11.196 | ppbv   | 99       |
| 52) Tetrachloroethene         | 10.632 | 164  | 887903   | 10.856 | ppbv   | 98       |
| 53) Toluene                   | 9.237  | 91   | 2780287  | 11.016 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.028 | 107  | 1343883  | 11.206 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.526 | 131  | 1272657  | 8.228  | ppbv   | 99       |
| 57) Chlorobenzene             | 11.542 | 112  | 2224042  | 8.018  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.105 | 91   | 3779084  | 9.192  | ppbv   | 99       |
| 59) m/p-Xylene                | 12.391 | 91   | 3514133  | 9.544  | ppbv # | 42       |
| 60) o-Xylene                  | 13.076 | 91   | 3111959  | 8.864  | ppbv   | 100      |
| 61) Styrene                   | 12.915 | 104  | 1503740  | 10.377 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.047 | 105  | 4628133  | 8.535  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.066 | 83   | 2179613  | 8.440  | ppbv   | 100      |
| 64) n-propylbenzene           | 14.931 | 120  | 1264315  | 8.907  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.108 | 119  | 4185885  | 8.589  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.342 | 91   | 189850   | 5.064  | ppbv # | 71       |
| 67) sec-Butylbenzene          | 16.651 | 105  | 5912468  | 8.608  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.011 | 119  | 4955798  | 8.925  | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.902 | 91   | 5094738  | 8.967  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 14.818 | 91   | 3506297  | 8.946  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.211 | 105  | 3790505  | 9.286  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.368 | 105  | 3243824  | 9.056  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.124 | 105  | 3596562  | 8.644  | ppbv   | 99       |
| 75) 1,3-Dichlorobenzene       | 16.349 | 146  | 2210855  | 8.580  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.490 | 146  | 2115126  | 8.508  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.162 | 146  | 2154411  | 8.440  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 22.651 | 225  | 1448199  | 7.174  | ppbv   | 100      |
| 79) Naphthalene               | 21.403 | 128  | 2907132  | 11.320 | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 24.390 | 142  | 514199   | 9.185  | ppbv   | 93       |
| 81) 1,2,4-Trichlorobenzene    | 21.159 | 180  | 1465322  | 9.073  | ppbv   | 100      |

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

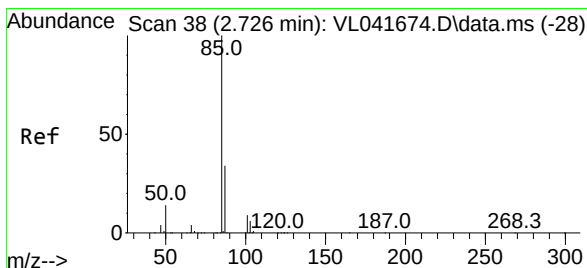
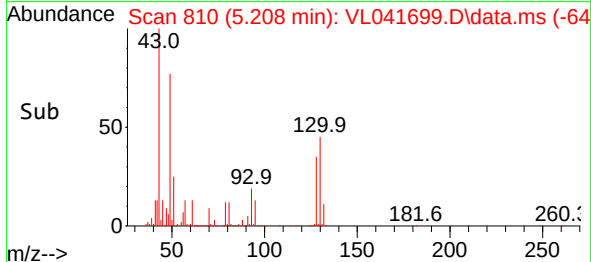
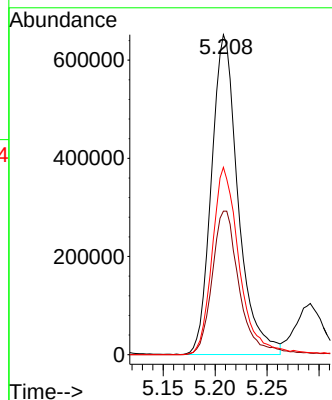
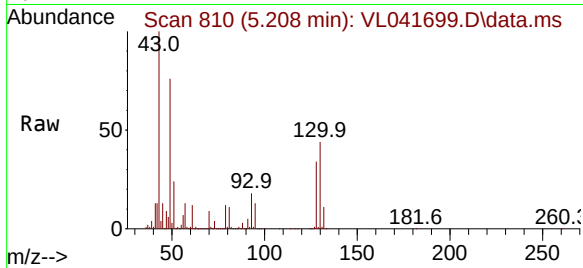




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.208 min Scan# 81  
 Delta R.T. 0.020 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

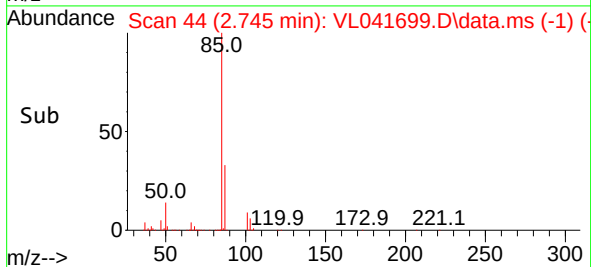
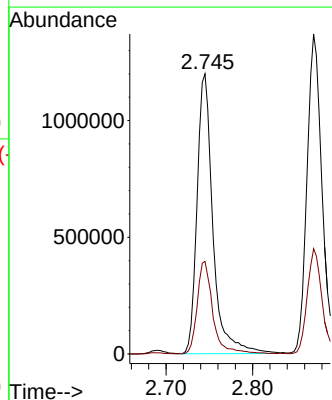
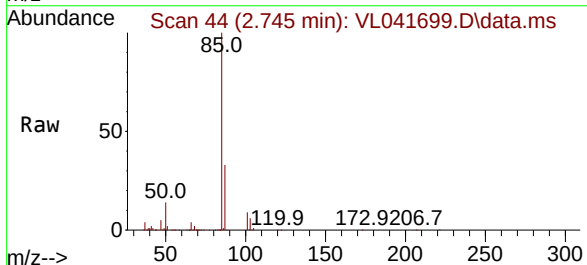
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL1120ABS01

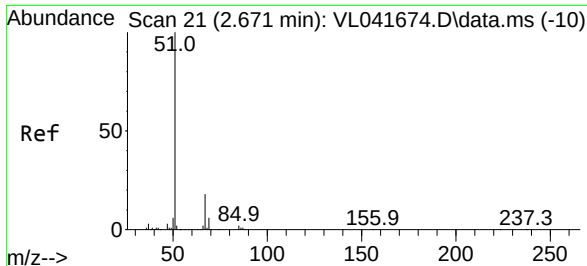
Tgt Ion: 49 Resp: 1163679  
 Ion Ratio Lower Upper  
 49 100  
 128 46.8 23.8 71.2  
 130 60.1 30.1 90.5



#2  
 Dichlorodifluoromethane  
 Concen: 7.258 ppbv  
 RT: 2.745 min Scan# 44  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

Tgt Ion: 85 Resp: 1526580  
 Ion Ratio Lower Upper  
 85 100  
 87 33.1 26.8 40.2

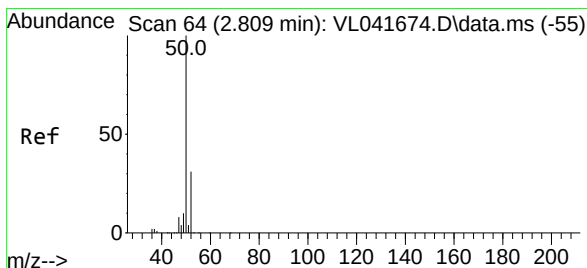
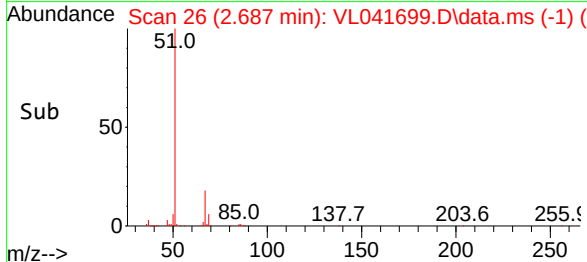
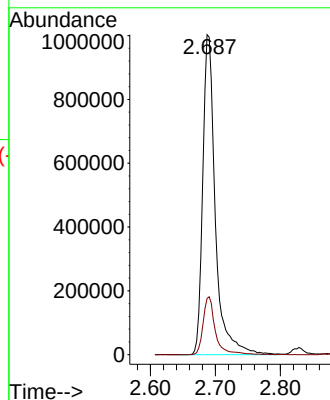
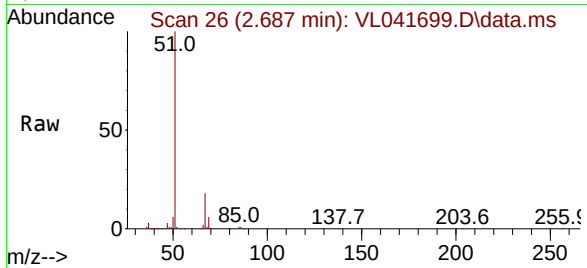




#3  
Chlorodifluoromethane  
Concen: 8.934 ppbv  
RT: 2.687 min Scan# 21  
Delta R.T. 0.016 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

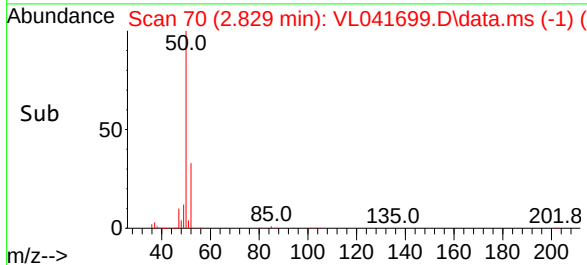
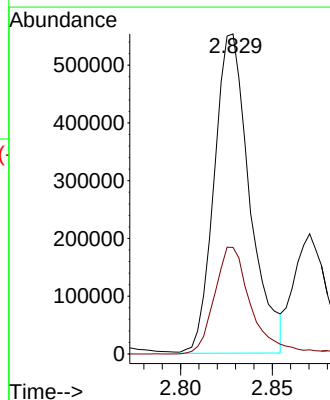
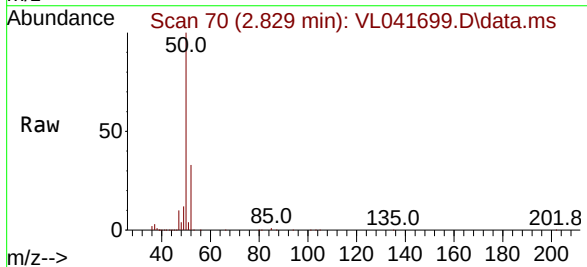
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

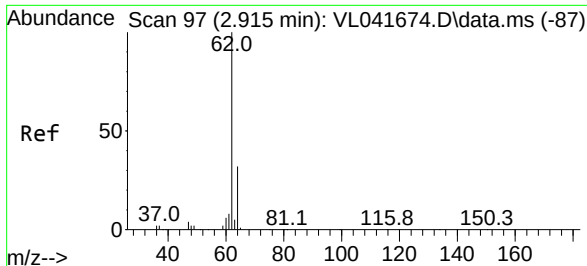
Tgt Ion: 51 Resp: 1354532  
Ion Ratio Lower Upper  
51 100  
67 17.7 13.9 20.9



#4  
Chloromethane  
Concen: 9.275 ppbv  
RT: 2.829 min Scan# 70  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 50 Resp: 744862  
Ion Ratio Lower Upper  
50 100  
52 33.4 24.9 37.3

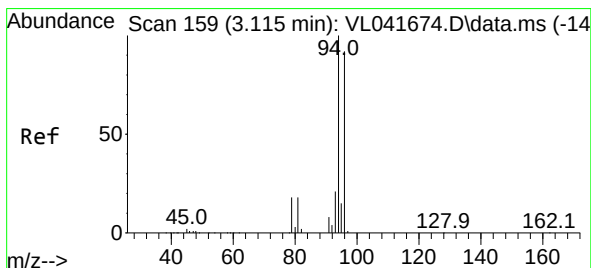
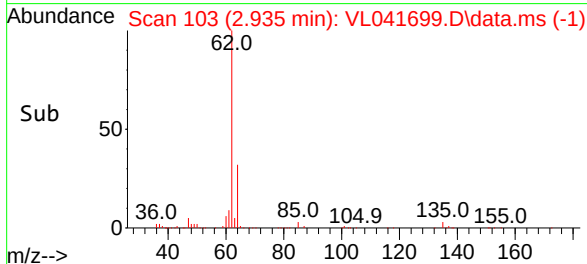
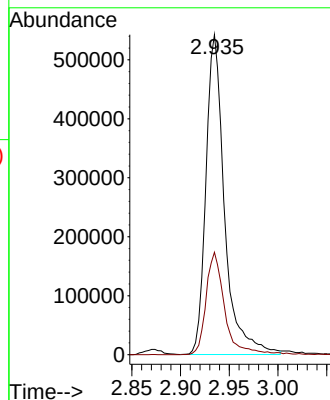
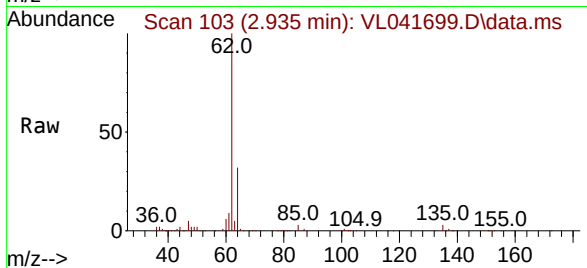




#5  
 Vinyl Chloride  
 Concen: 9.955 ppbv  
 RT: 2.935 min Scan# 11  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

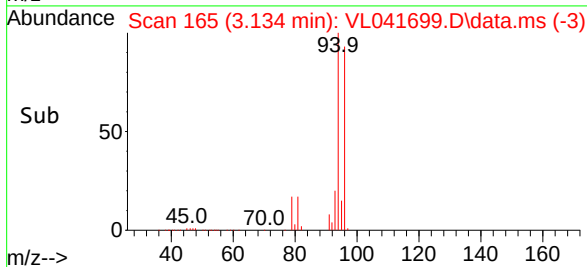
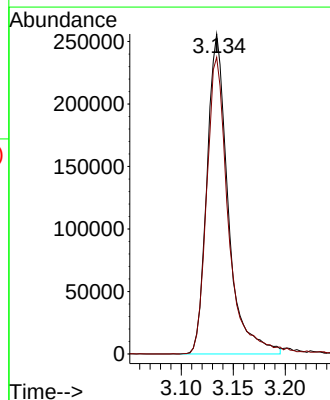
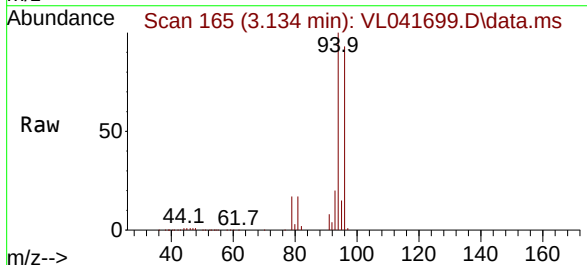
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1120ABS01

Tgt Ion: 62 Resp: 719166  
 Ion Ratio Lower Upper  
 62 100  
 64 32.0 25.4 38.2

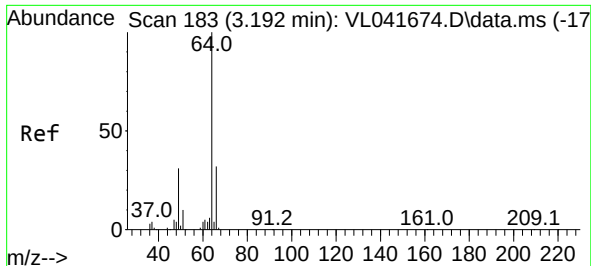


#6  
 Bromomethane  
 Concen: 9.456 ppbv  
 RT: 3.134 min Scan# 165  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

Tgt Ion: 94 Resp: 362376  
 Ion Ratio Lower Upper  
 94 100  
 96 92.7 73.4 110.2



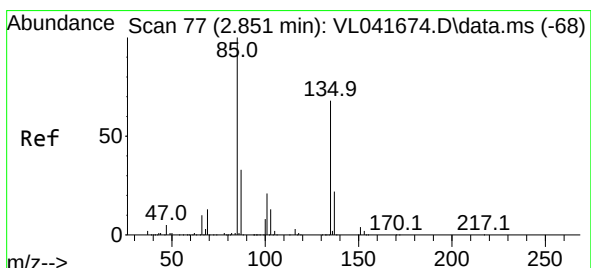
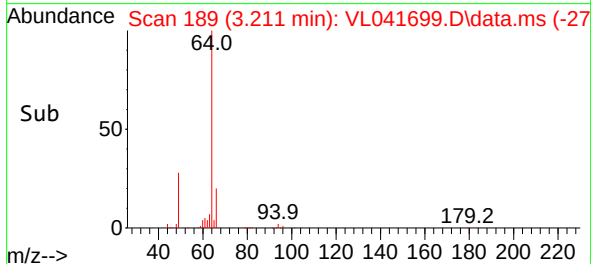
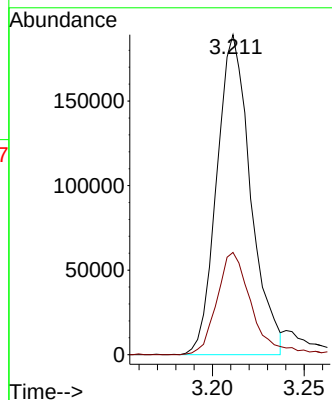
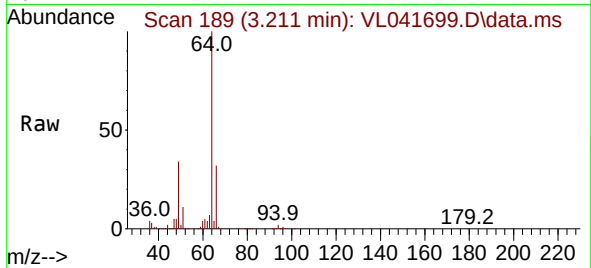




#7  
Chloroethane  
Concen: 9.213 ppbv  
RT: 3.211 min Scan# 11  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

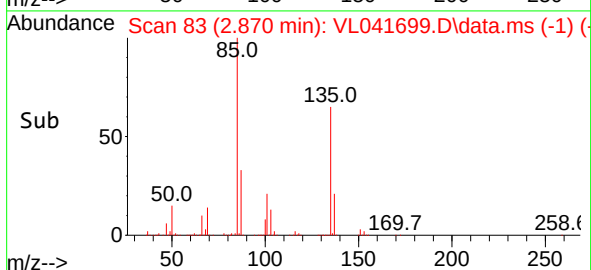
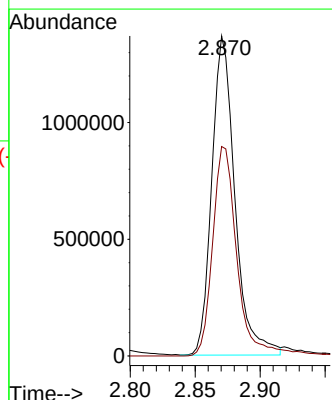
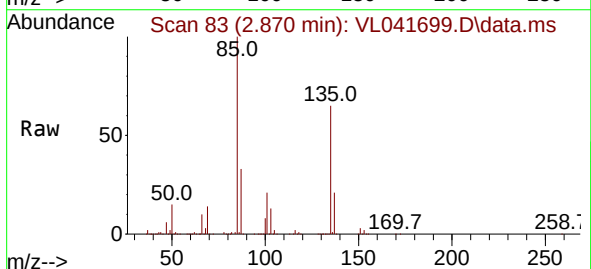
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

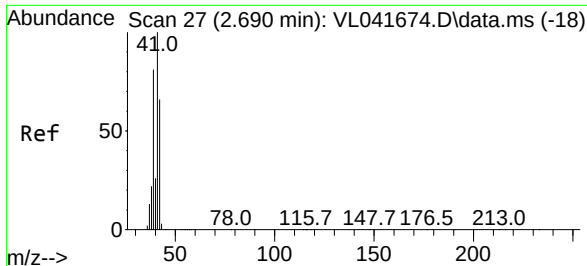
Tgt Ion: 64 Resp: 242910  
Ion Ratio Lower Upper  
64 100  
66 31.9 25.9 38.9



#8  
Dichlorotetrafluoroethane  
Concen: 9.016 ppbv  
RT: 2.870 min Scan# 83  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 85 Resp: 1692833  
Ion Ratio Lower Upper  
85 100  
135 70.2 55.5 83.3

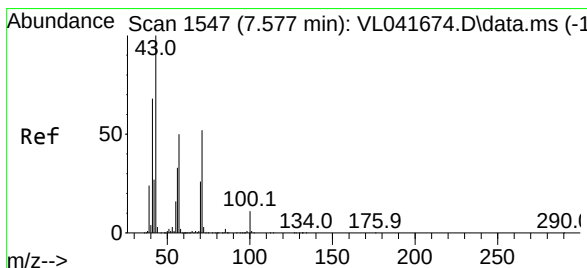
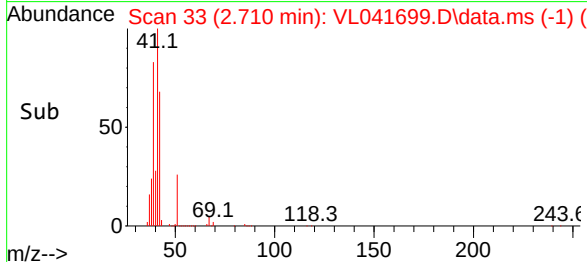
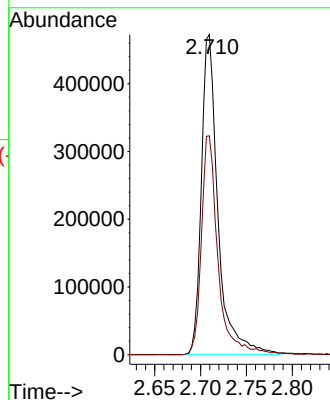
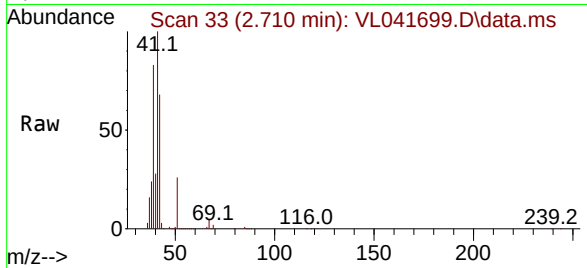




#9  
Propene  
Concen: 9.028 ppbv  
RT: 2.710 min Scan# 31  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

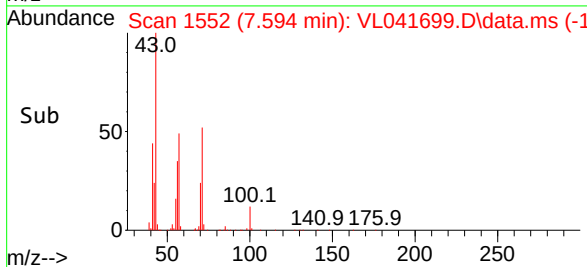
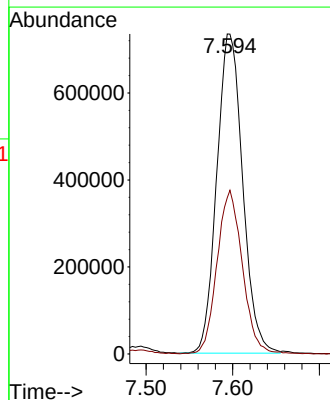
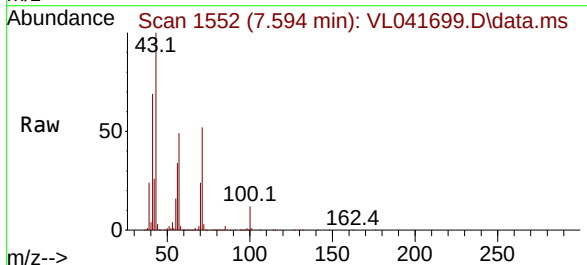
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

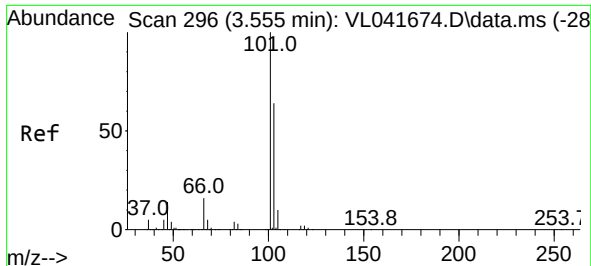
Tgt Ion: 41 Resp: 596424  
Ion Ratio Lower Upper  
41 100  
42 68.5 55.0 82.4



#10  
Heptane  
Concen: 10.297 ppbv  
RT: 7.594 min Scan# 1552  
Delta R.T. 0.016 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 43 Resp: 1524430  
Ion Ratio Lower Upper  
43 100  
57 50.3 40.0 60.0

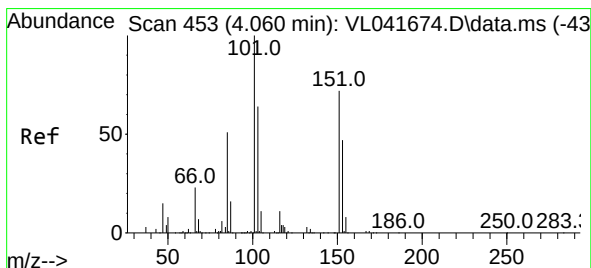
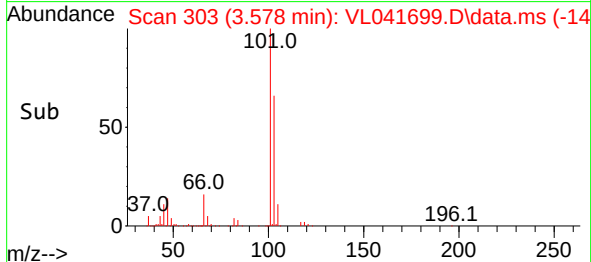
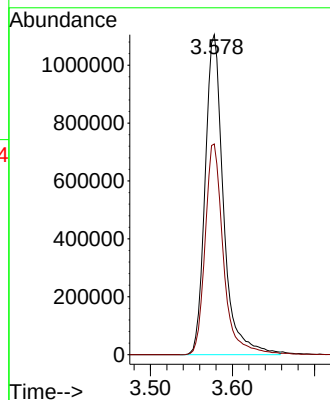
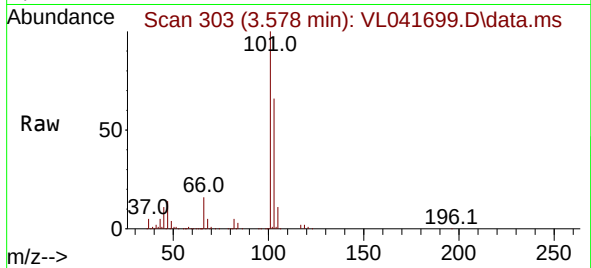




#11  
 Trichlorofluoromethane  
 Concen: 9.371 ppbv  
 RT: 3.578 min Scan# 30  
 Delta R.T. 0.023 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

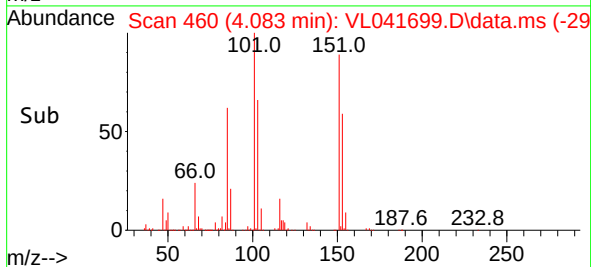
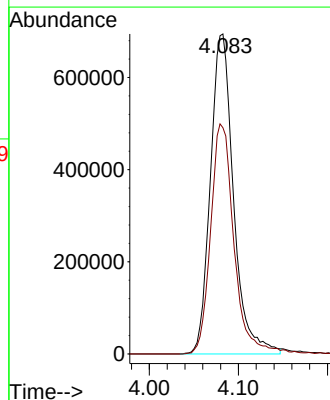
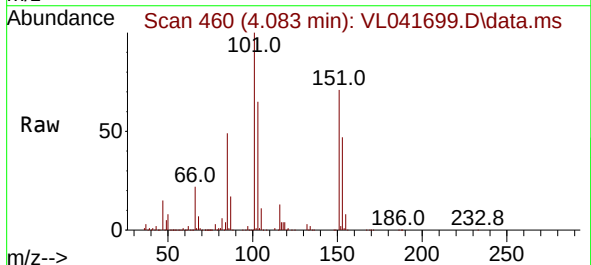
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL1120ABS01

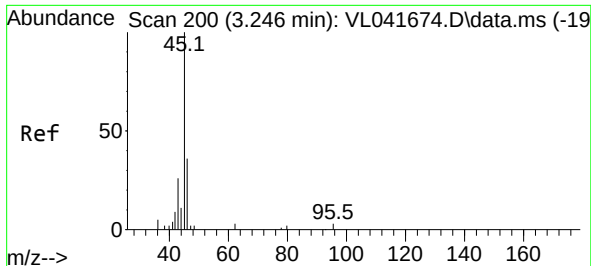
Tgt Ion:101 Resp: 1716777  
 Ion Ratio Lower Upper  
 101 100  
 103 65.9 51.0 76.6



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.413 ppbv  
 RT: 4.083 min Scan# 460  
 Delta R.T. 0.023 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

Tgt Ion:101 Resp: 1253402  
 Ion Ratio Lower Upper  
 101 100  
 151 73.0 59.1 88.7

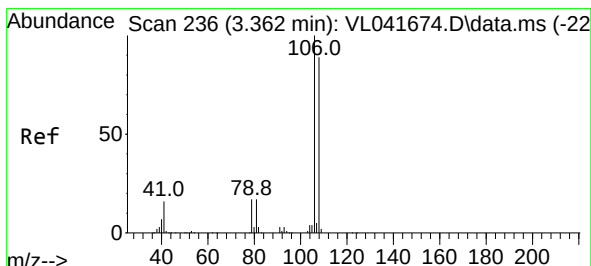
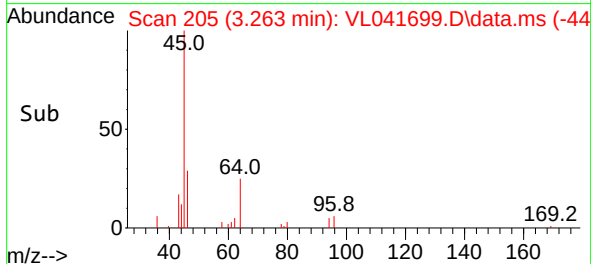
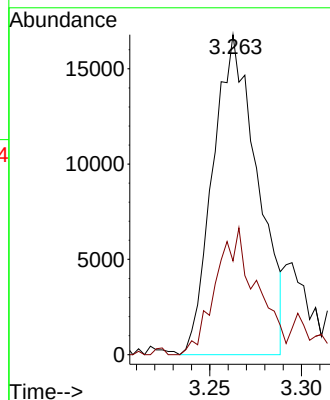
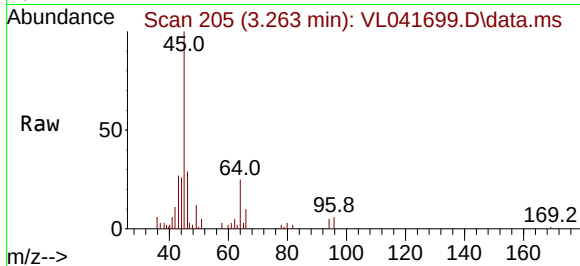




#13  
Ethanol  
Concen: 7.054 ppbv  
RT: 3.263 min Scan# 20  
Delta R.T. 0.016 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

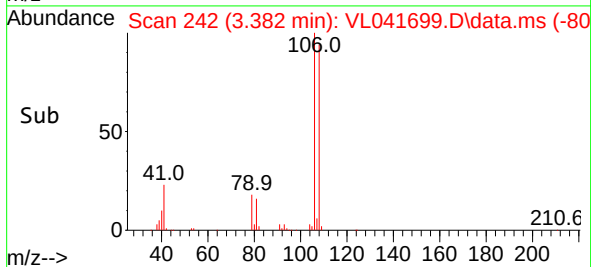
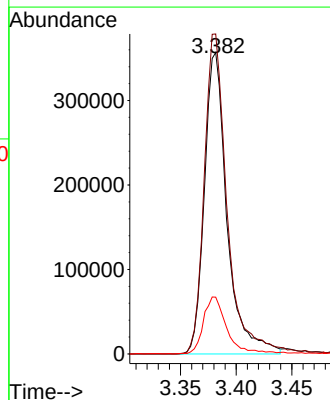
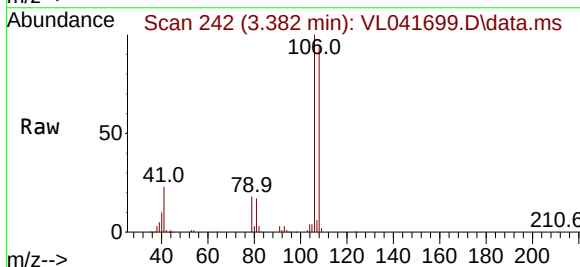
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

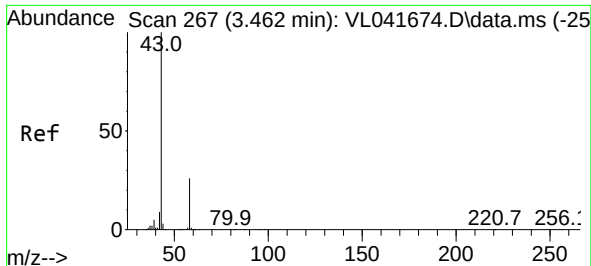
Tgt Ion: 45 Resp: 28536  
Ion Ratio Lower Upper  
45 100  
46 45.9 13.8 55.2



#14  
Bromoethene  
Concen: 9.423 ppbv  
RT: 3.382 min Scan# 242  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion:108 Resp: 504396  
Ion Ratio Lower Upper  
108 100  
106 109.3 88.6 133.0  
79 20.4 15.6 23.4

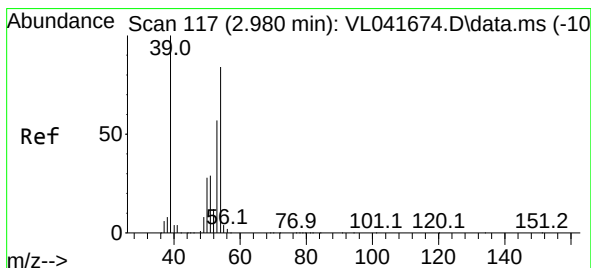
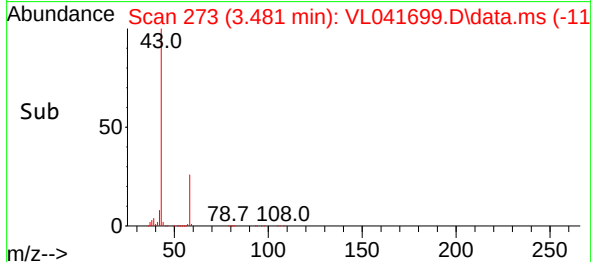
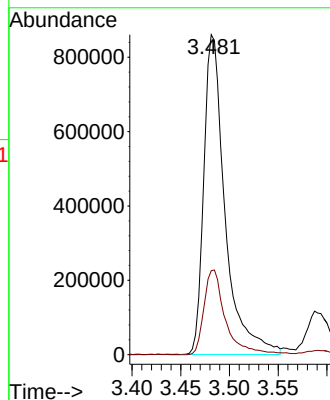
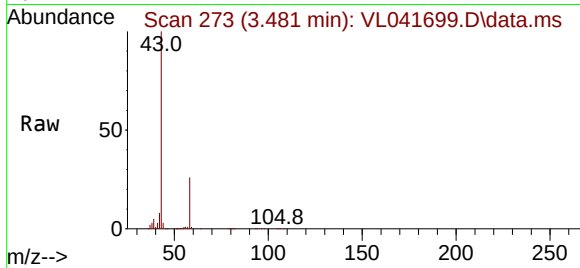




#15  
Acetone  
Concen: 9.122 ppbv  
RT: 3.481 min Scan# 21  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

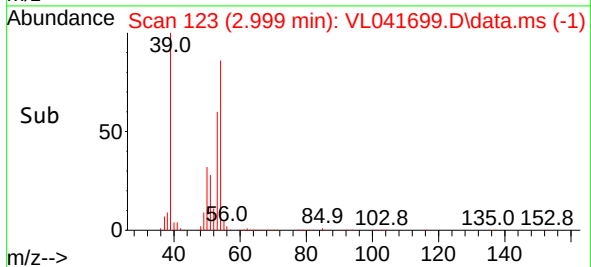
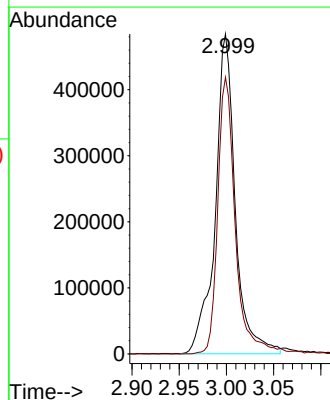
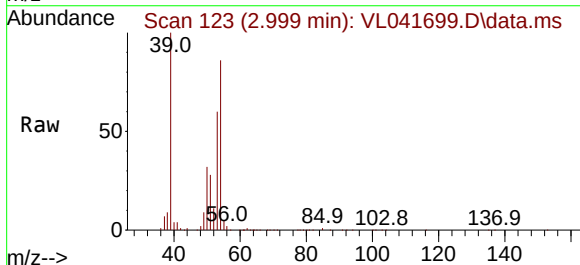
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

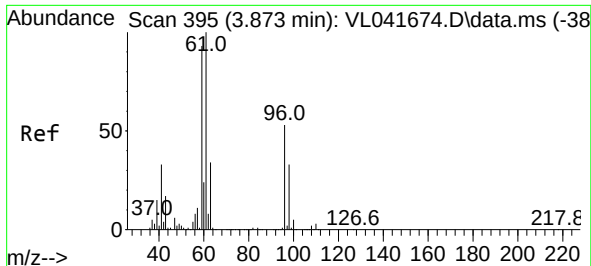
Tgt Ion: 43 Resp: 1306457  
Ion Ratio Lower Upper  
43 100  
58 26.9 21.4 32.0



#16  
1,3-Butadiene  
Concen: 9.903 ppbv  
RT: 2.999 min Scan# 123  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 39 Resp: 715603  
Ion Ratio Lower Upper  
39 100  
54 76.6 61.3 91.9

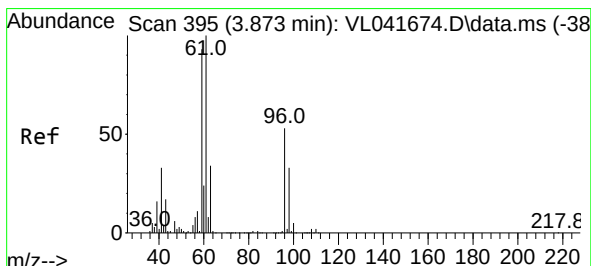
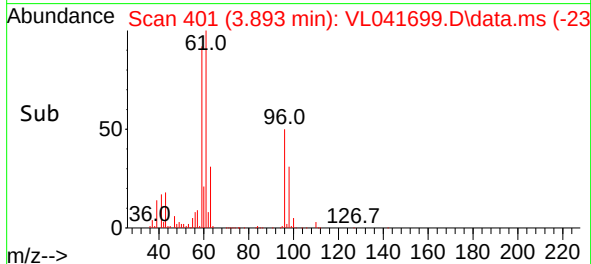
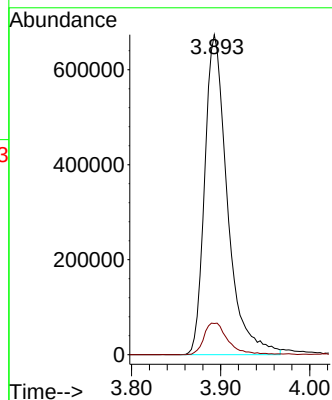
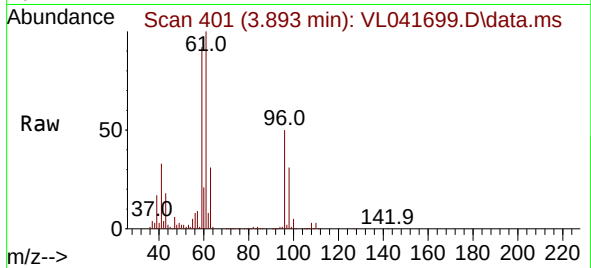




#17  
tert-Butyl alcohol  
Concen: 9.507 ppbv  
RT: 3.893 min Scan# 401  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

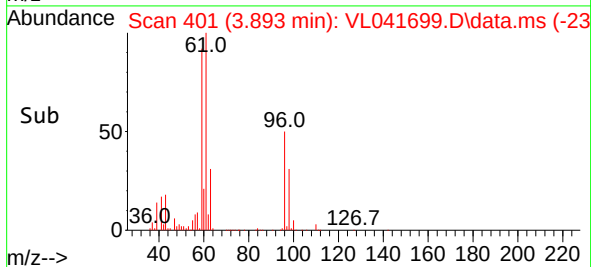
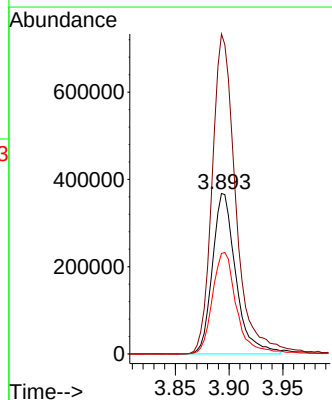
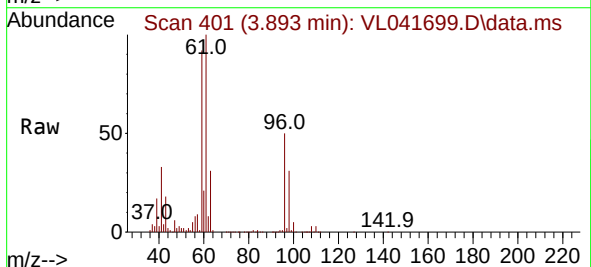
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

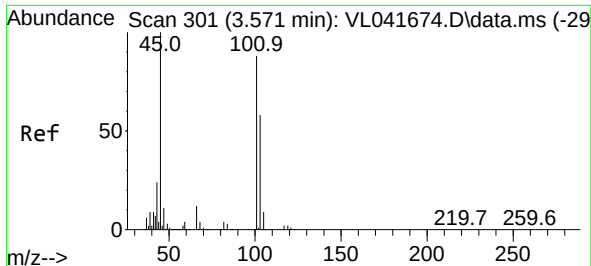
Tgt Ion: 59 Resp: 1194748  
Ion Ratio Lower Upper  
59 100  
57 10.9 8.5 12.7



#18  
1,1-Dichloroethene  
Concen: 9.544 ppbv  
RT: 3.893 min Scan# 401  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 96 Resp: 557361  
Ion Ratio Lower Upper  
96 100  
61 199.5 150.7 226.1  
98 62.5 49.4 74.2

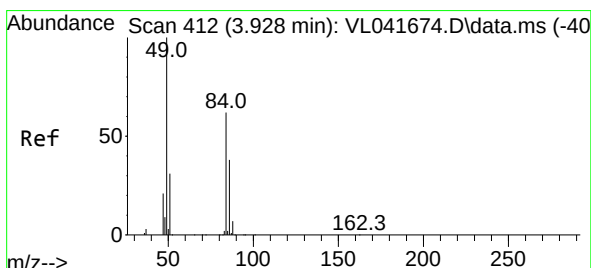
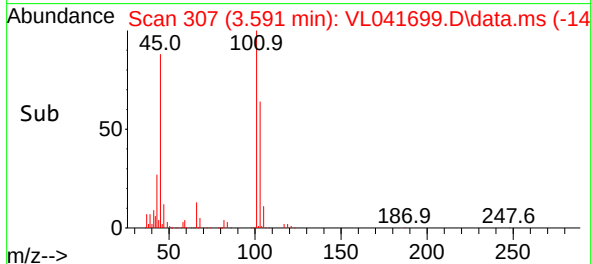
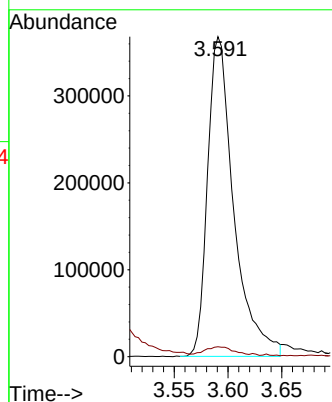
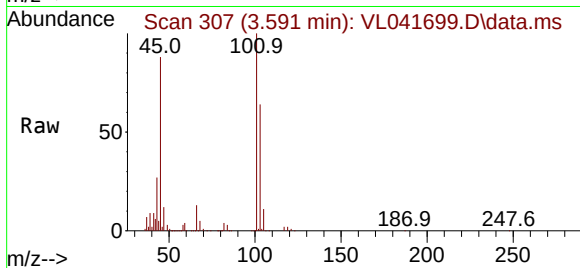




#19  
Isopropyl Alcohol  
Concen: 9.101 ppbv  
RT: 3.591 min Scan# 301  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

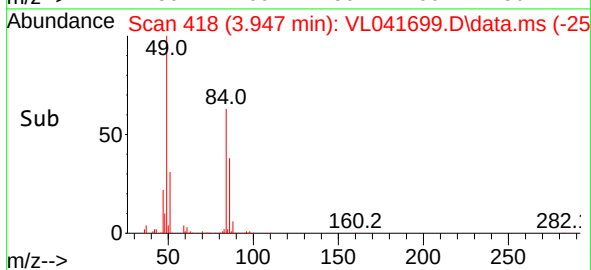
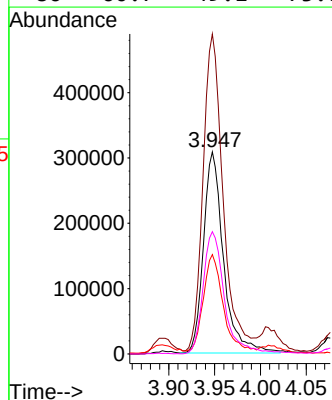
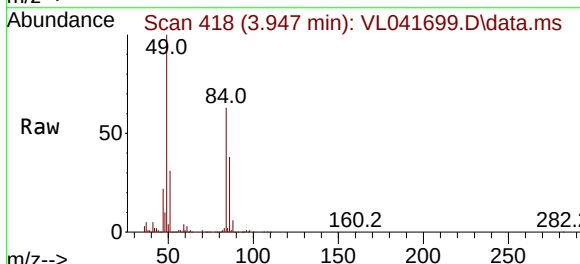
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

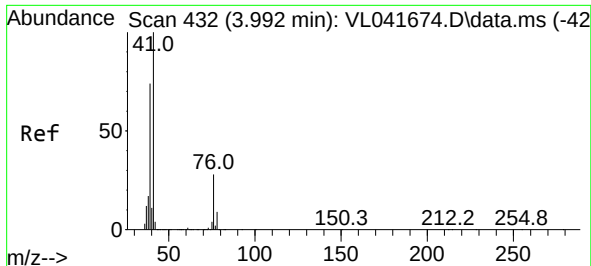
Tgt Ion: 45 Resp: 622976  
Ion Ratio Lower Upper  
45 100  
58 3.7 2.5 3.7



#20  
Methylene Chloride  
Concen: 8.884 ppbv  
RT: 3.947 min Scan# 418  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 84 Resp: 468186  
Ion Ratio Lower Upper  
84 100  
49 156.7 129.7 194.5  
51 47.0 39.8 59.6  
86 60.7 49.1 73.7





#21

Allyl Chloride

Concen: 9.878 ppbv

RT: 4.012 min Scan# 41

Delta R.T. 0.019 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

Instrument :

MSVOA\_L

ClientSampleId :

VL1120ABS01

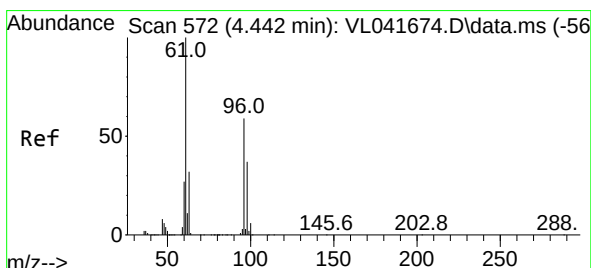
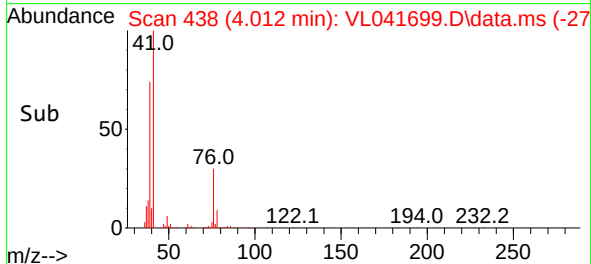
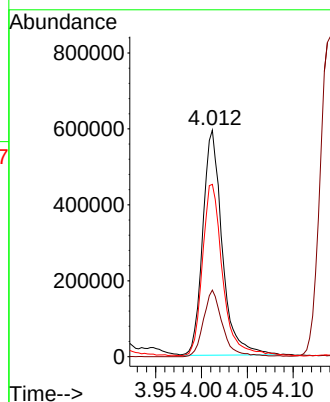
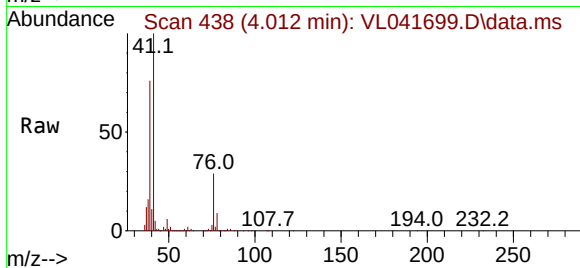
Tgt Ion: 41 Resp: 874140

Ion Ratio Lower Upper

41 100

76 29.3 23.5 35.3

39 79.8 63.0 94.4



#22

trans-1,2-Dichloroethene

Concen: 9.522 ppbv

RT: 4.462 min Scan# 578

Delta R.T. 0.019 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

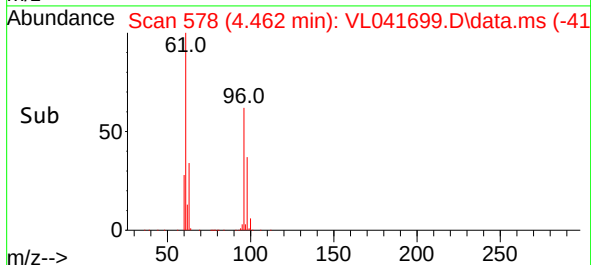
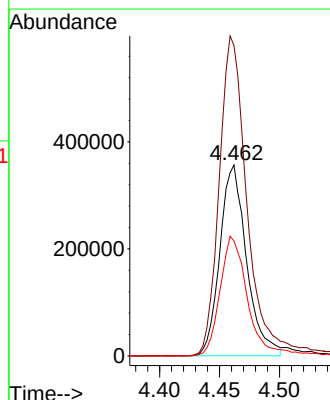
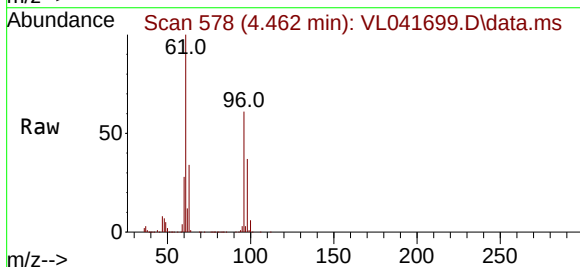
Tgt Ion: 96 Resp: 552930

Ion Ratio Lower Upper

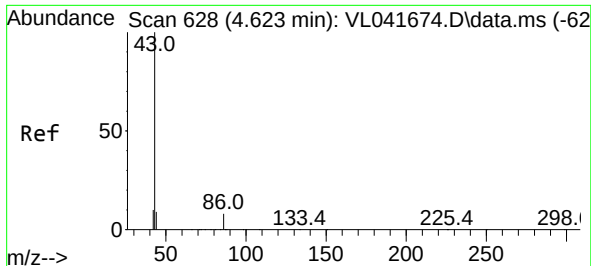
96 100

61 162.7 134.5 201.7

98 60.2 49.6 74.4



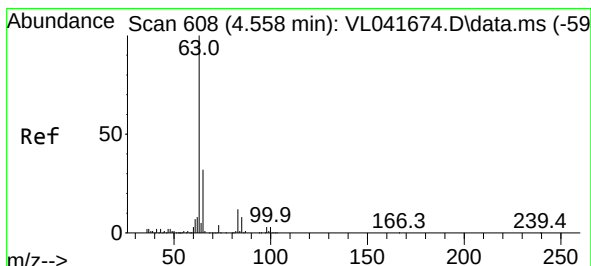
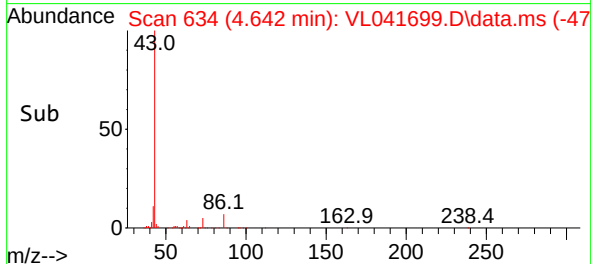
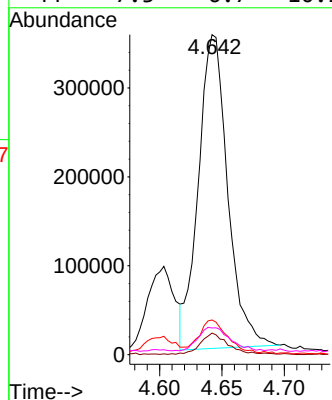
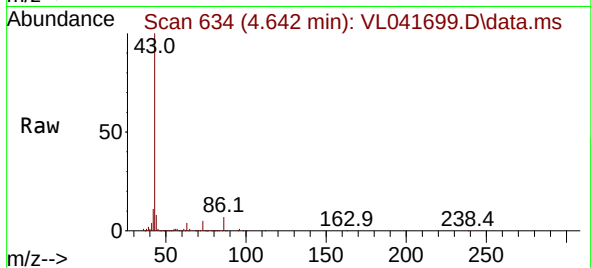




#23  
 Vinyl Acetate  
 Concen: 9.164 ppbv  
 RT: 4.642 min Scan# 614  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

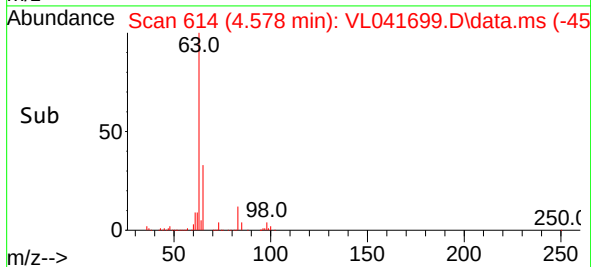
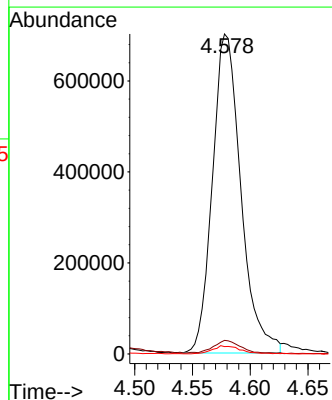
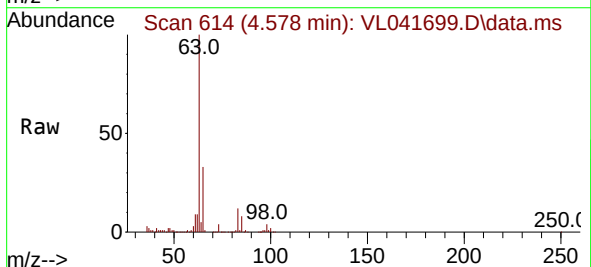
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL1120ABS01

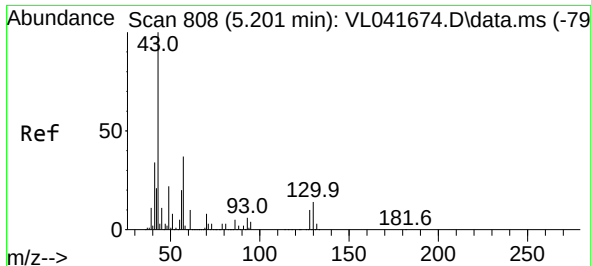
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 43 | Resp: | 578556 |
| Ion | Ratio   | Lower | Upper  |
| 43  | 100     |       |        |
| 86  | 6.8     | 5.3   | 7.9    |
| 42  | 10.6    | 8.5   | 12.7   |
| 44  | 7.3     | 6.7   | 10.1   |



#24  
 1,1-Dichloroethane  
 Concen: 9.261 ppbv  
 RT: 4.578 min Scan# 614  
 Delta R.T. 0.019 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

|             |       |               |       |
|-------------|-------|---------------|-------|
| Tgt Ion: 63 |       | Resp: 1200413 |       |
| Ion         | Ratio | Lower         | Upper |
| 63          | 100   |               |       |
| 98          | 3.9   | 1.8           | 5.4   |
| 100         | 2.2   | 1.4           | 4.2   |



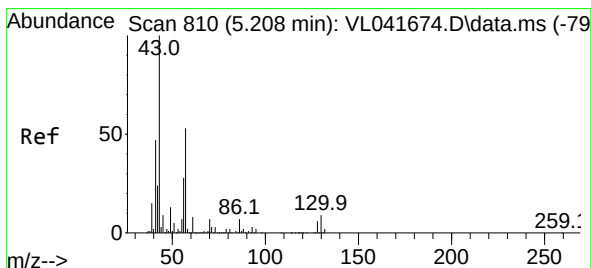
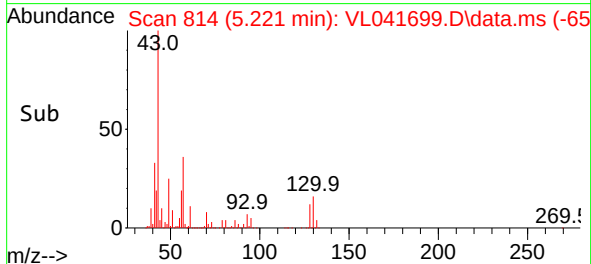
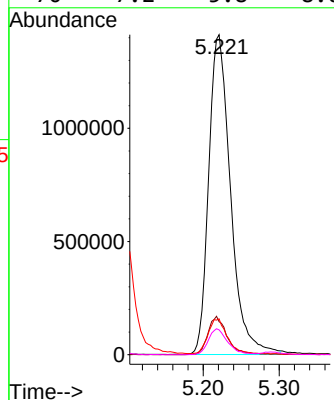
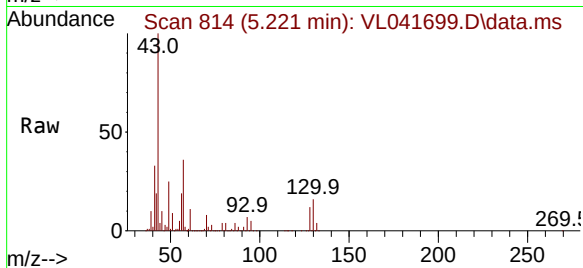


#25  
Ethyl Acetate  
Concen: 9.506 ppbv  
RT: 5.221 min Scan# 814  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

Tgt Ion: 43 Resp: 2817969

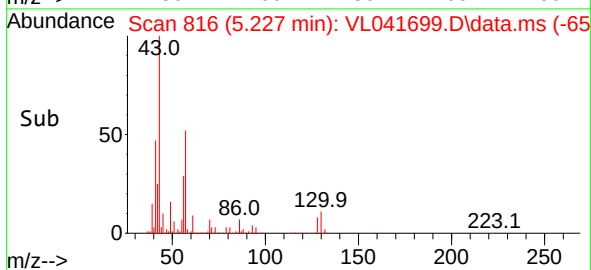
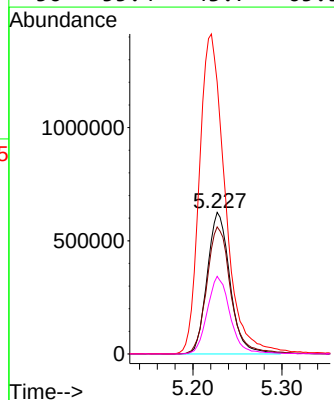
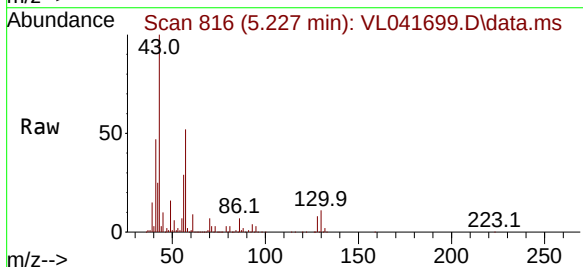
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.8  | 8.6   | 13.0  |
| 61  | 10.3  | 8.4   | 12.6  |
| 70  | 7.2   | 5.8   | 8.6   |

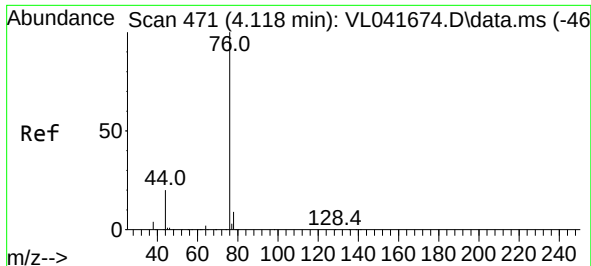


#26  
Hexane  
Concen: 9.737 ppbv  
RT: 5.227 min Scan# 816  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 57 Resp: 1108983

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 95.8  | 76.1  | 114.1 |
| 43  | 256.6 | 207.0 | 310.6 |
| 56  | 55.4  | 43.7  | 65.5  |

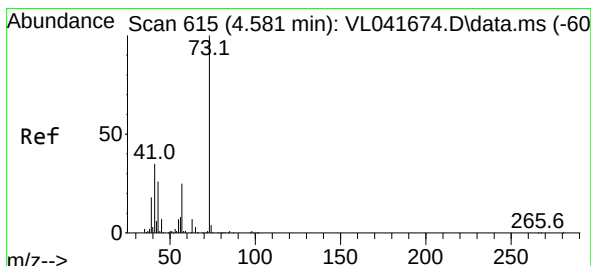
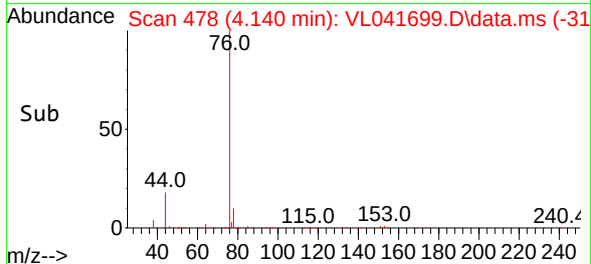
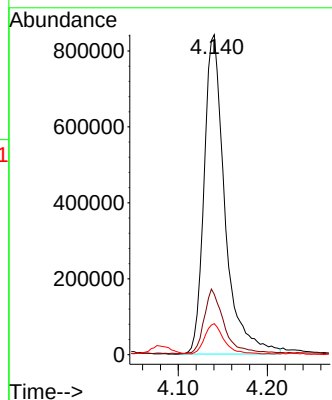
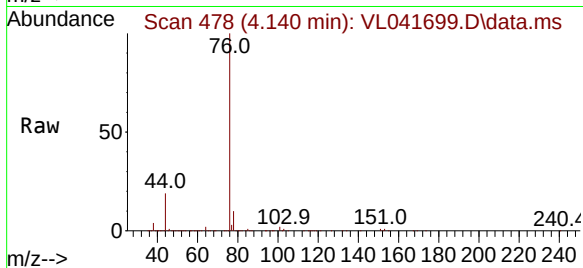




#27  
Carbon Disulfide  
Concen: 10.677 ppbv  
RT: 4.140 min Scan# 41  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

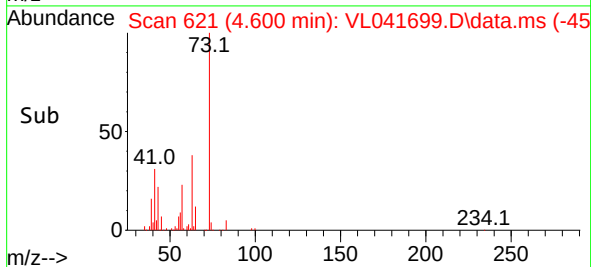
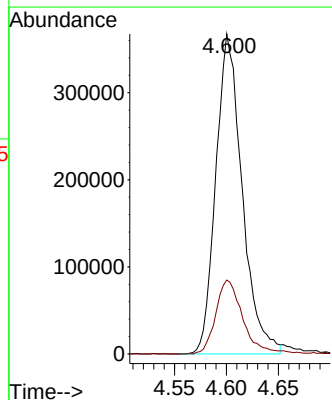
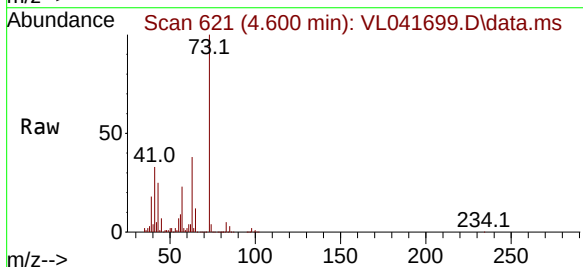
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

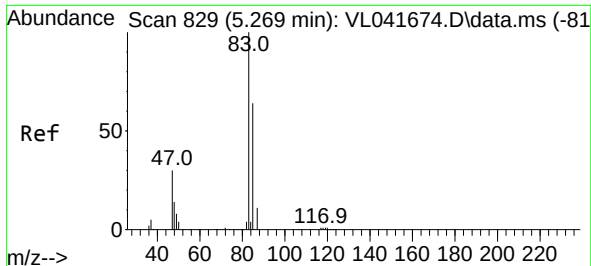
Tgt Ion: 76 Resp: 1366173  
Ion Ratio Lower Upper  
76 100  
44 20.0 15.8 23.8  
78 9.4 7.5 11.3



#28  
Methyl tert-Butyl Ether  
Concen: 8.826 ppbv  
RT: 4.600 min Scan# 621  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 73 Resp: 647293  
Ion Ratio Lower Upper  
73 100  
57 24.1 19.6 29.4

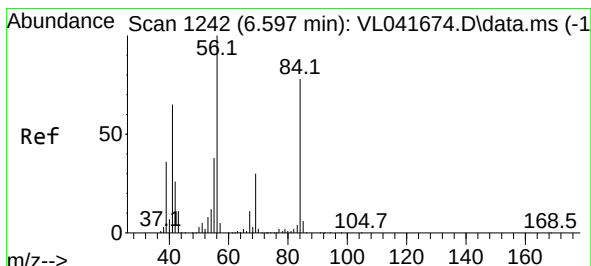
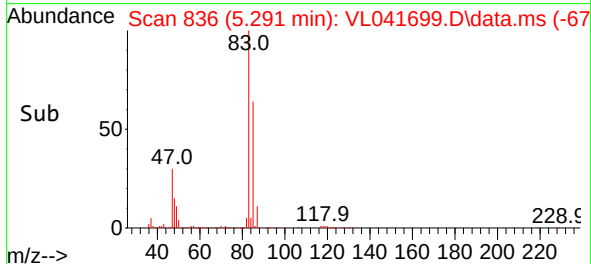
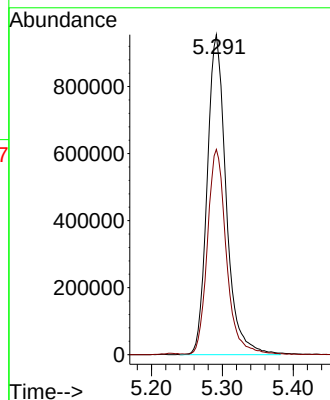
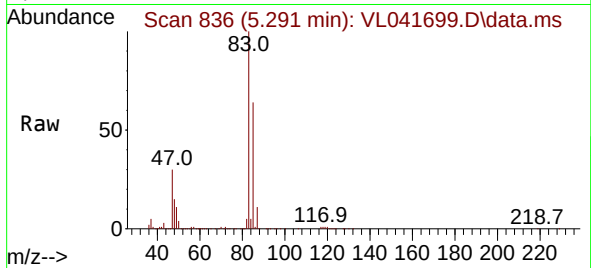




#29  
Chloroform  
Concen: 9.436 ppbv  
RT: 5.291 min Scan# 81  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

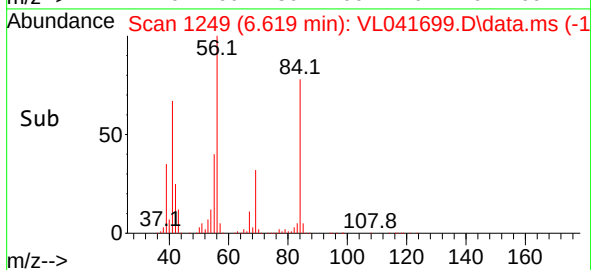
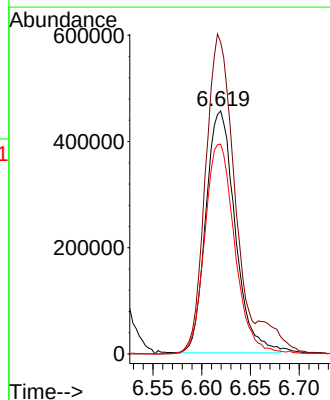
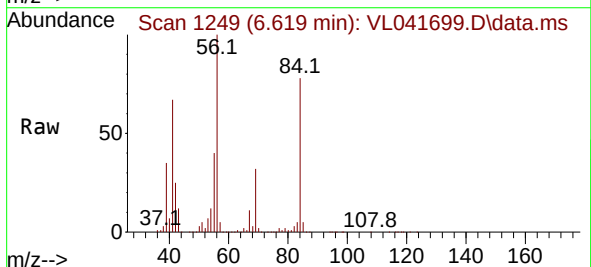
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

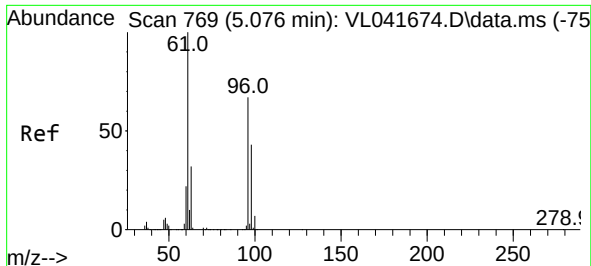
Tgt Ion: 83 Resp: 1773915  
Ion Ratio Lower Upper  
83 100  
85 64.0 51.1 76.7



#30  
Cyclohexane  
Concen: 9.815 ppbv  
RT: 6.619 min Scan# 1249  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 84 Resp: 951807  
Ion Ratio Lower Upper  
84 100  
56 139.2 110.8 166.2  
41 88.9 70.0 105.0

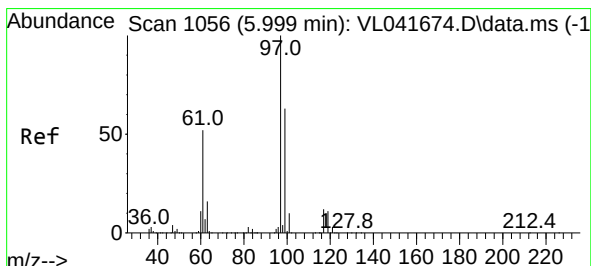
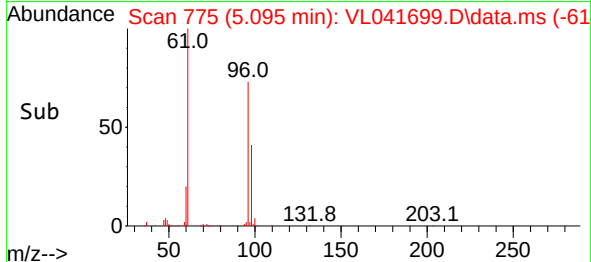
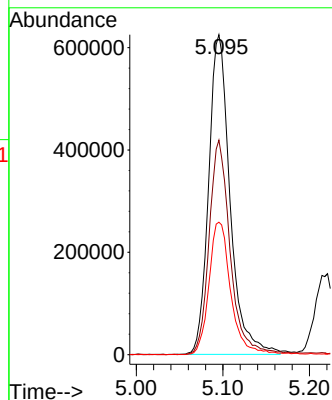
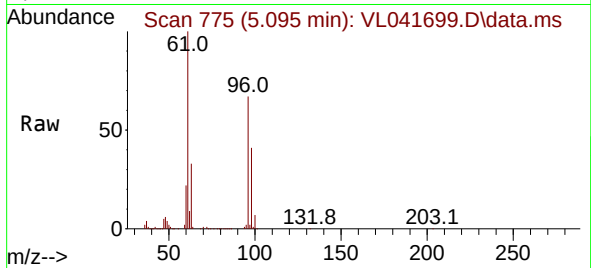




#31  
cis-1,2-Dichloroethene  
Concen: 9.810 ppbv  
RT: 5.095 min Scan# 71  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

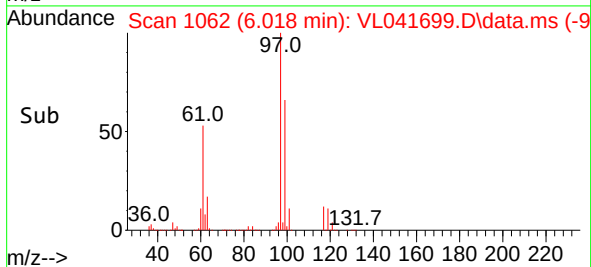
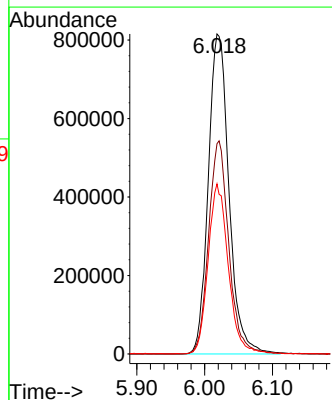
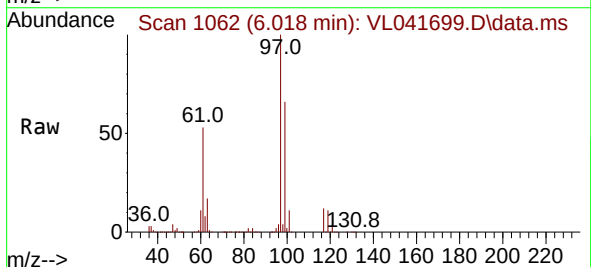
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

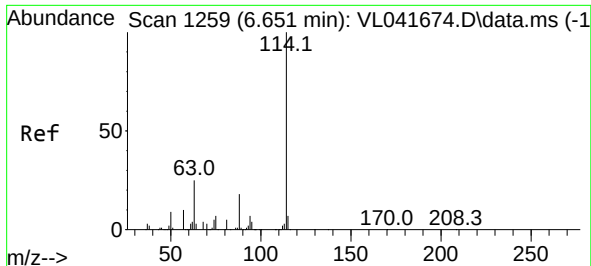
Tgt Ion: 61 Resp: 1074877  
Ion Ratio Lower Upper  
61 100  
96 67.0 53.4 80.2  
98 41.3 34.0 51.0



#32  
1,1,1-Trichloroethane  
Concen: 10.080 ppbv  
RT: 6.018 min Scan# 1062  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 97 Resp: 1728793  
Ion Ratio Lower Upper  
97 100  
99 65.2 51.4 77.2  
61 52.3 41.7 62.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 11

Delta R.T. 0.019 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

Instrument :

MSVOA\_1

ClientSampleId :

VL1120ABS01

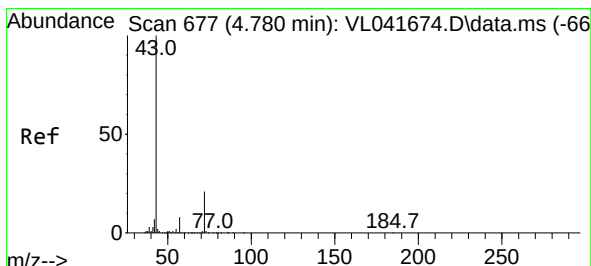
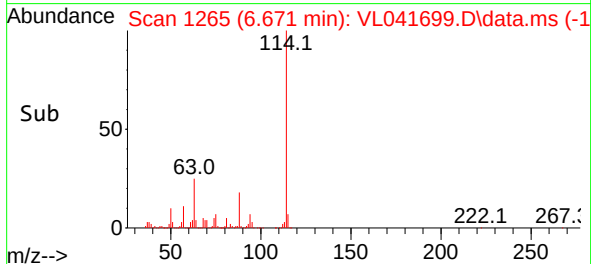
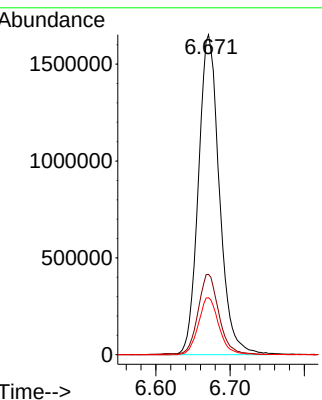
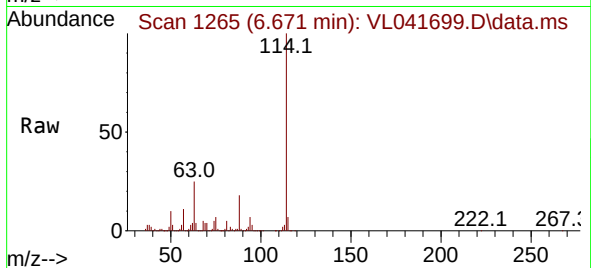
Tgt Ion:114 Resp: 3239097

Ion Ratio Lower Upper

114 100

63 25.3 20.3 30.5

88 17.5 14.2 21.4



#34

2-Butanone

Concen: 9.310 ppbv

RT: 4.800 min Scan# 683

Delta R.T. 0.019 min

Lab File: VL041699.D

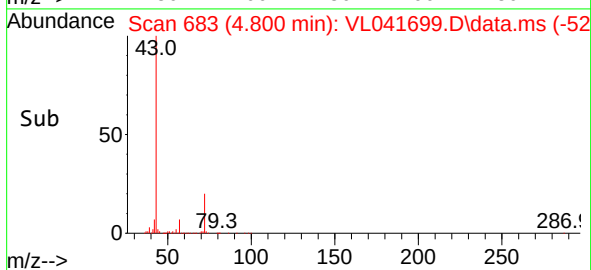
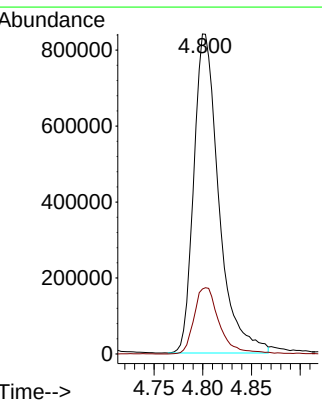
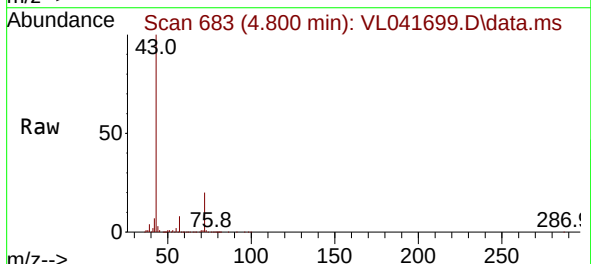
Acq: 20 Nov 2024 13:15

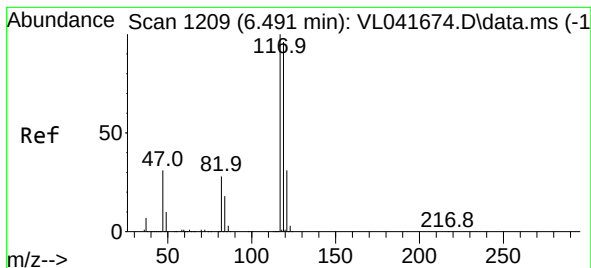
Tgt Ion: 43 Resp: 1501583

Ion Ratio Lower Upper

43 100

72 21.1 17.4 26.0





#35

Carbon Tetrachloride

Concen: 10.688 ppbv

RT: 6.510 min Scan# 117

Delta R.T. 0.019 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

Instrument :

MSVOA\_1

ClientSampleId :

VL1120ABS01

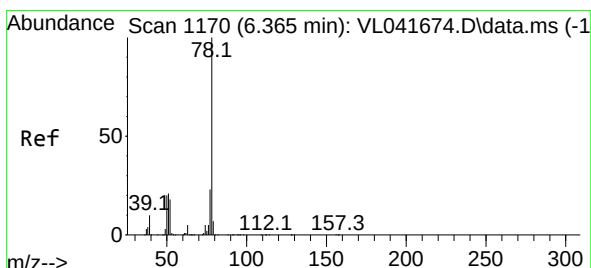
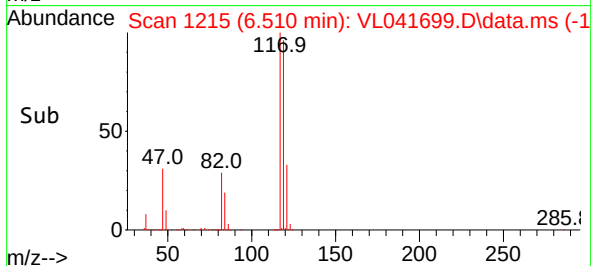
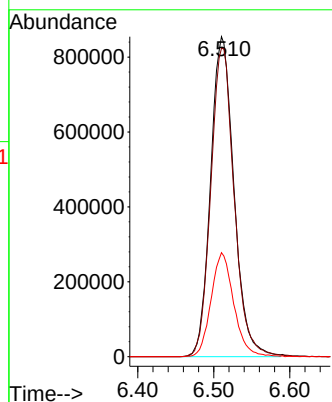
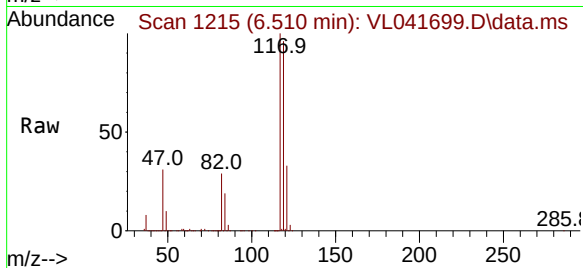
Tgt Ion:117 Resp: 1826480

Ion Ratio Lower Upper

117 100

119 96.4 77.2 115.8

121 32.5 25.0 37.4



#36

Benzene

Concen: 9.947 ppbv

RT: 6.388 min Scan# 1177

Delta R.T. 0.023 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

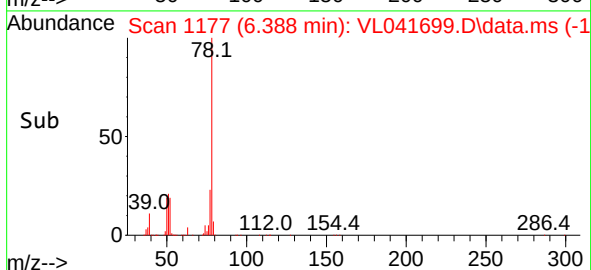
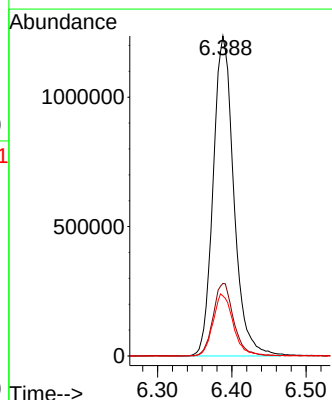
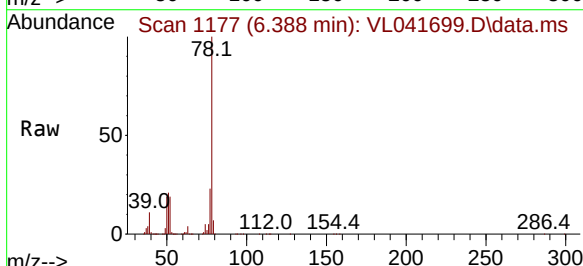
Tgt Ion: 78 Resp: 2387291

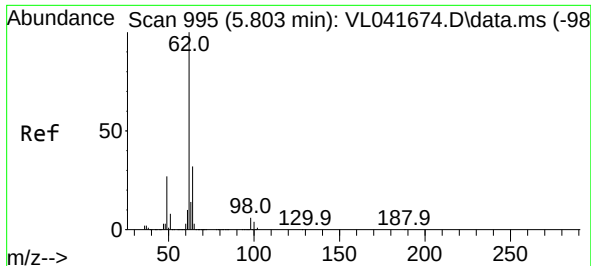
Ion Ratio Lower Upper

78 100

77 22.7 18.5 27.7

50 18.7 15.6 23.4

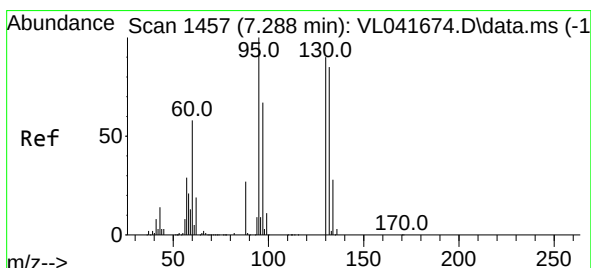
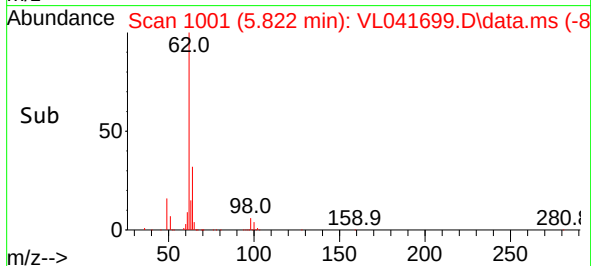
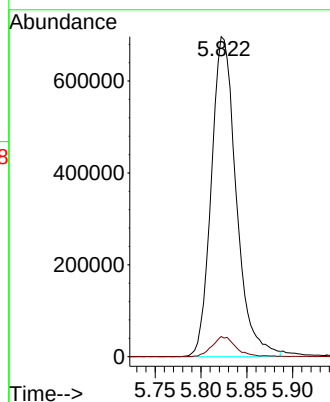
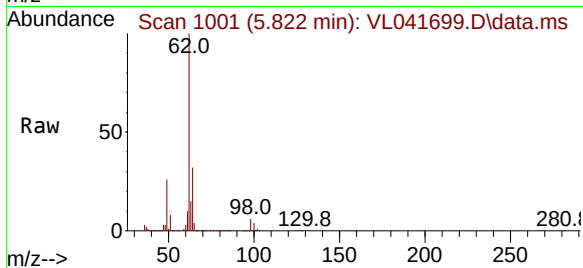




#37  
1,2-Dichloroethane  
Concen: 9.744 ppbv  
RT: 5.822 min Scan# 1001  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

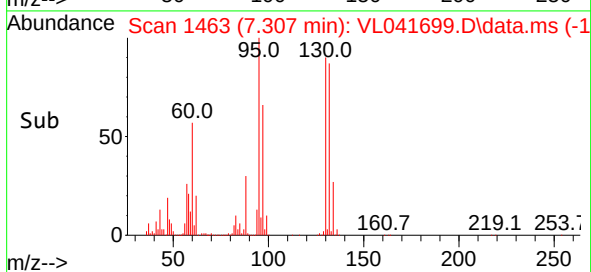
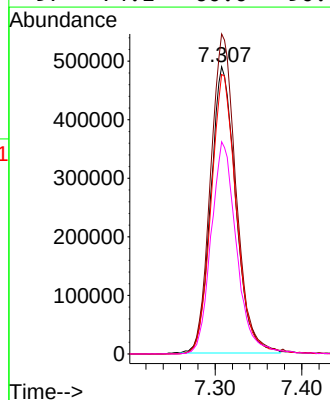
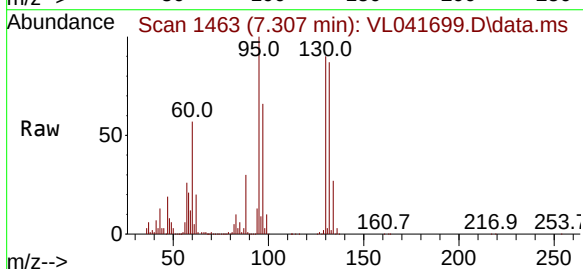
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

Tgt Ion: 62 Resp: 1319263  
Ion Ratio Lower Upper  
62 100  
98 6.2 5.2 7.8

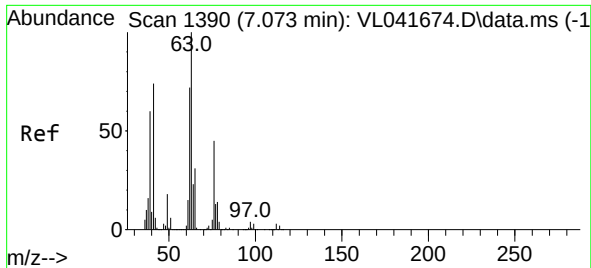


#38  
Trichloroethene  
Concen: 10.635 ppbv  
RT: 7.307 min Scan# 1463  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion:130 Resp: 980257  
Ion Ratio Lower Upper  
130 100  
95 111.7 89.1 133.7  
132 97.6 75.7 113.5  
97 74.1 60.0 90.0



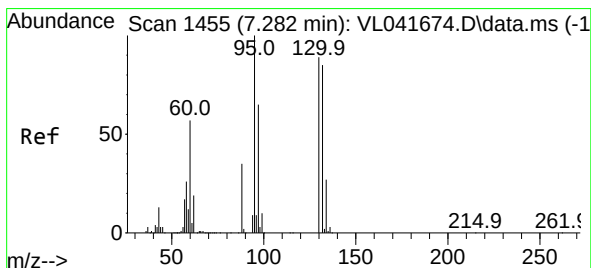
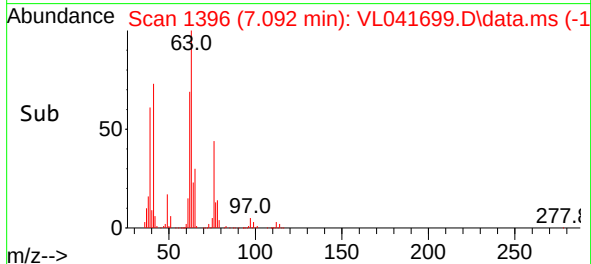
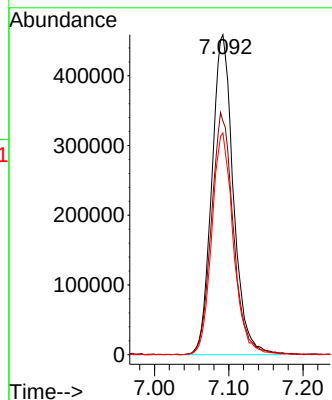
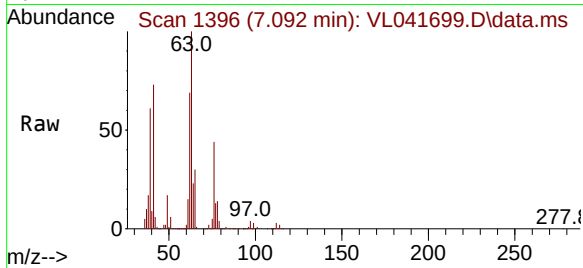




#39  
1,2-Dichloropropane  
Concen: 9.759 ppbv  
RT: 7.092 min Scan# 11  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

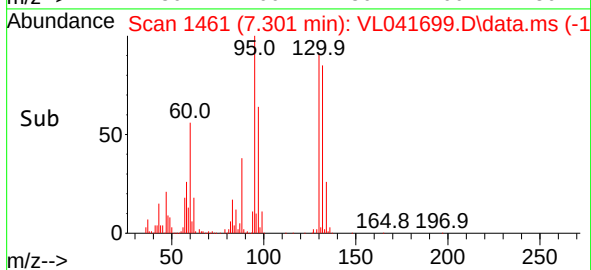
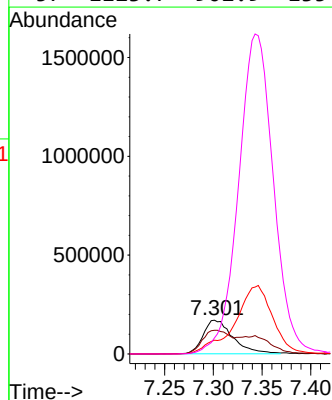
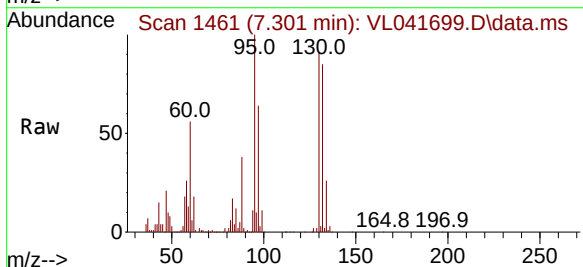
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

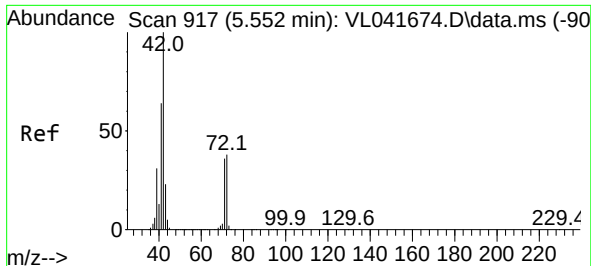
Tgt Ion: 63 Resp: 925581  
Ion Ratio Lower Upper  
63 100  
41 72.9 59.1 88.7  
62 69.3 57.7 86.5



#40  
1,4-Dioxane  
Concen: 10.596 ppbv  
RT: 7.301 min Scan# 1461  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 88 Resp: 360556  
Ion Ratio Lower Upper  
88 100  
58 126.0 101.4 152.2  
43 260.6 208.0 312.0  
57 1123.7 902.9 1354.3

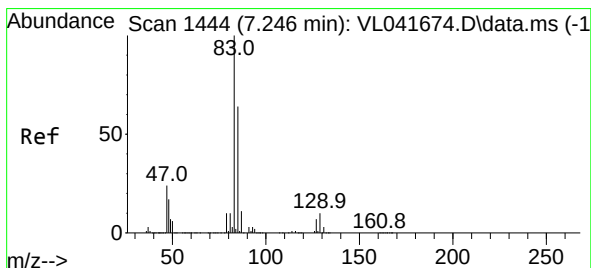
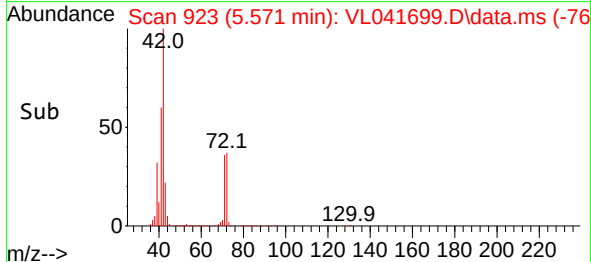
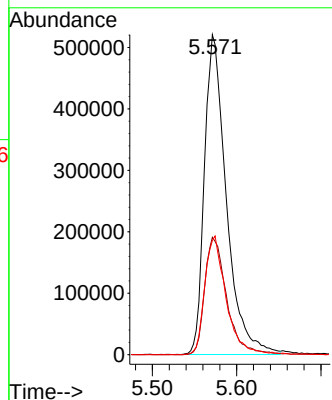
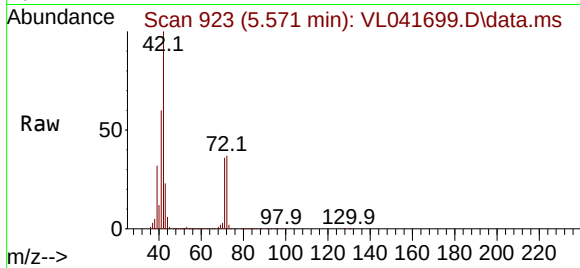




#41  
Tetrahydrofuran  
Concen: 10.257 ppbv  
RT: 5.571 min Scan# 917  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

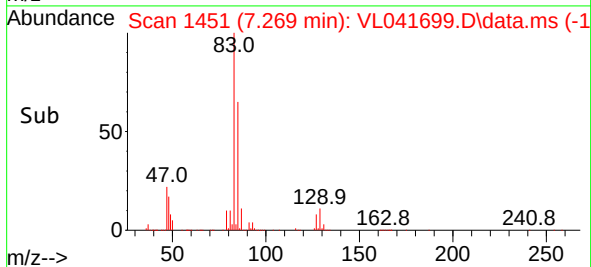
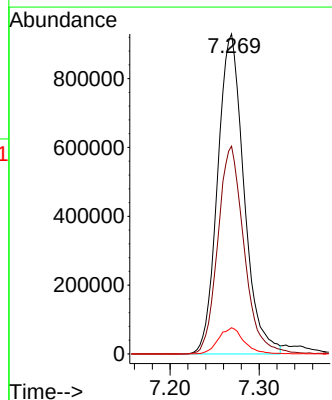
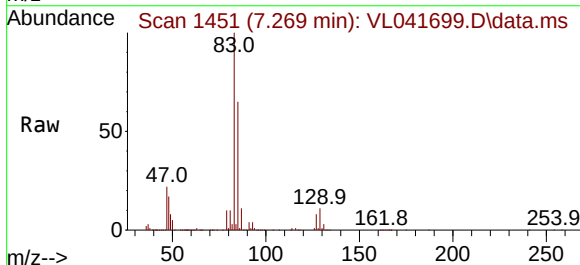
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

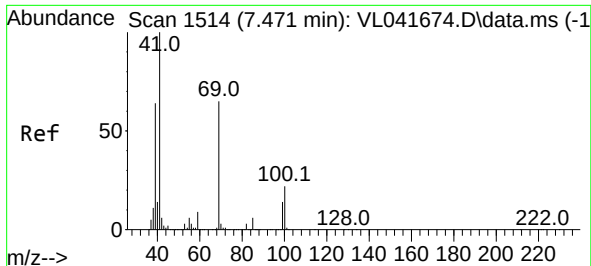
Tgt Ion: 42 Resp: 944780  
Ion Ratio Lower Upper  
42 100  
72 36.8 29.8 44.6  
71 36.4 29.4 44.2



#42  
Bromodichloromethane  
Concen: 10.147 ppbv  
RT: 7.269 min Scan# 1451  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 83 Resp: 1909198  
Ion Ratio Lower Upper  
83 100  
85 64.9 51.2 76.8  
127 8.2 6.0 9.0

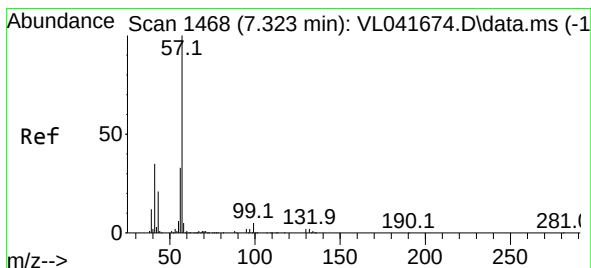
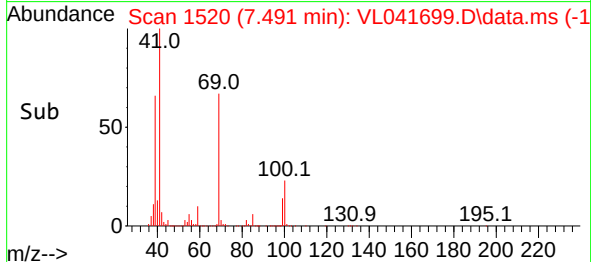
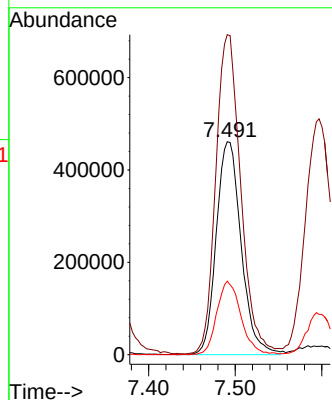
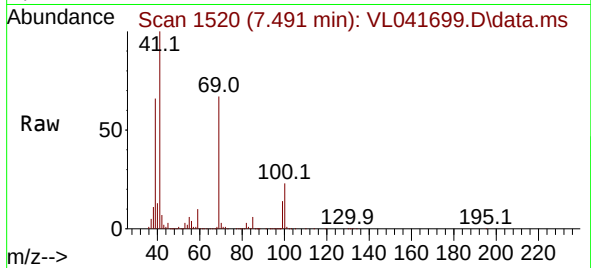




#43  
Methyl Methacrylate  
Concen: 10.923 ppbv  
RT: 7.491 min Scan# 11  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

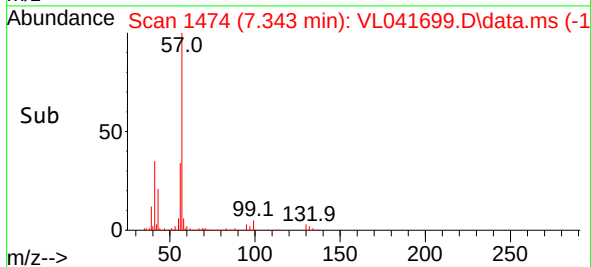
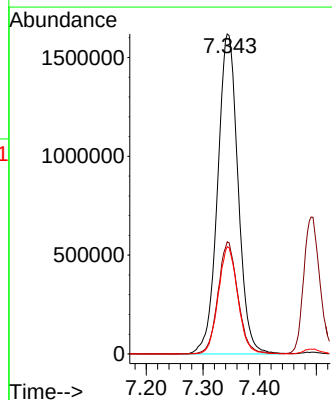
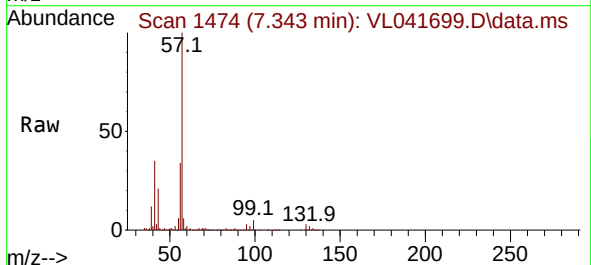
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

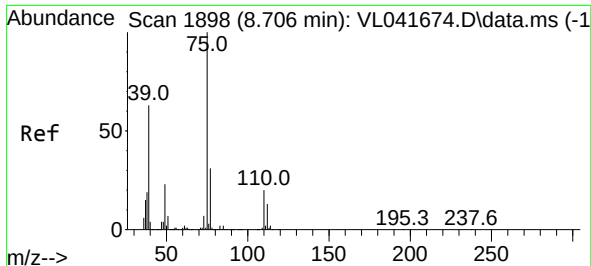
Tgt Ion: 69 Resp: 920452  
Ion Ratio Lower Upper  
69 100  
41 150.9 119.8 179.6  
100 33.6 27.3 40.9



#44  
2,2,4-Trimethylpentane  
Concen: 9.958 ppbv  
RT: 7.343 min Scan# 1474  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 57 Resp: 4048166  
Ion Ratio Lower Upper  
57 100  
41 34.0 27.0 40.6  
56 32.1 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 11.439 ppbv

RT: 8.729 min Scan# 1898

Delta R.T. 0.023 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

Instrument :

MSVOA\_1

ClientSampleId :

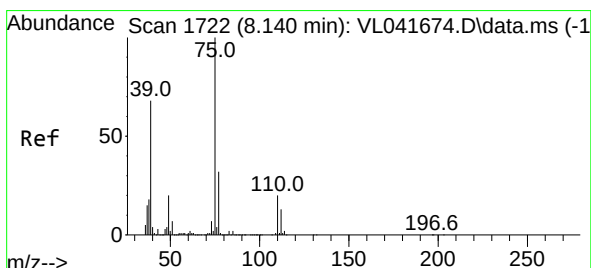
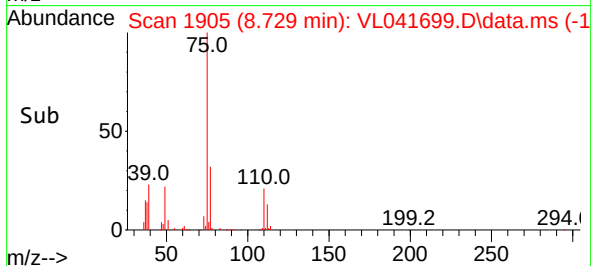
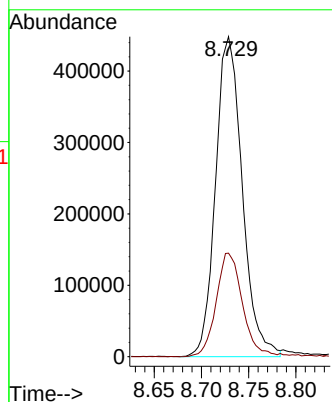
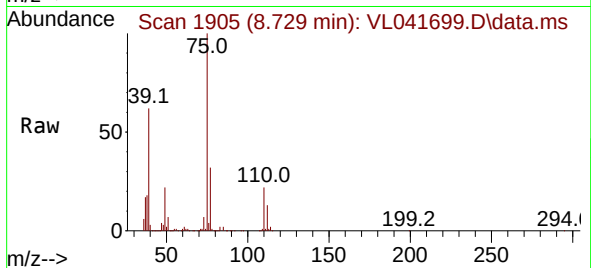
VL1120ABS01

Tgt Ion: 75 Resp: 880781

Ion Ratio Lower Upper

75 100

77 32.3 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 11.089 ppbv

RT: 8.160 min Scan# 1728

Delta R.T. 0.019 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

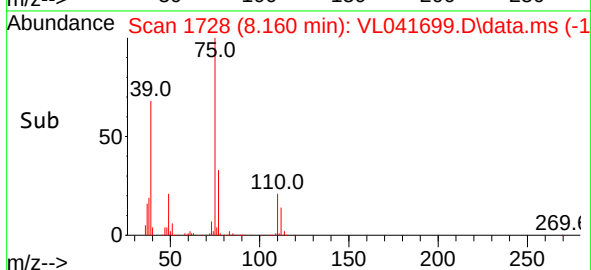
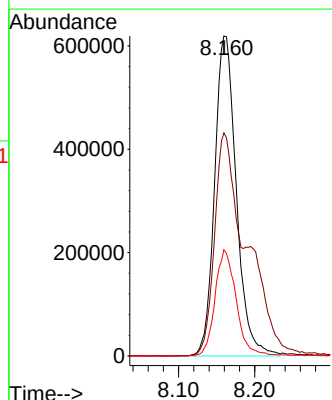
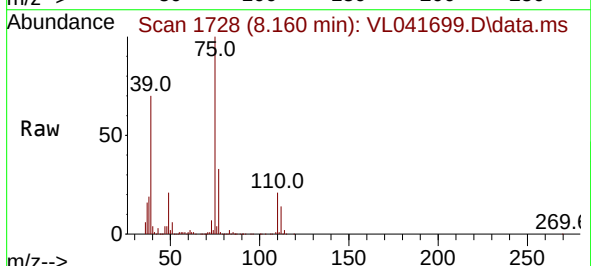
Tgt Ion: 75 Resp: 1226432

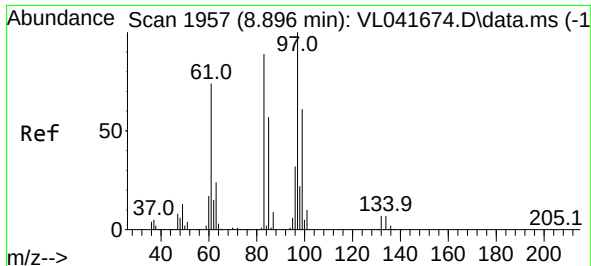
Ion Ratio Lower Upper

75 100

39 69.6 54.1 81.1

77 33.2 25.3 37.9



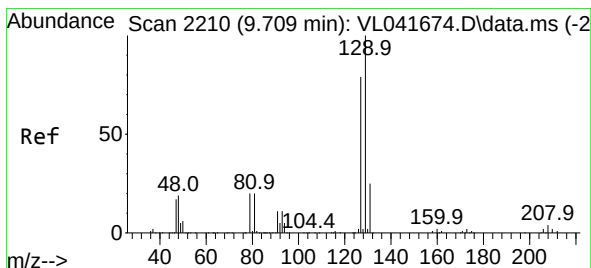
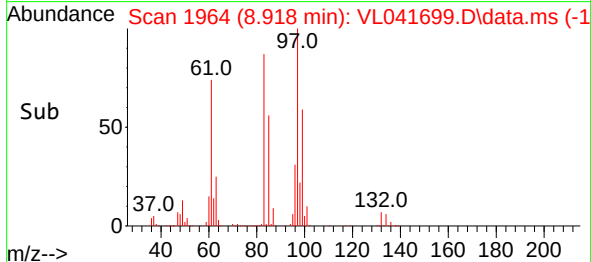
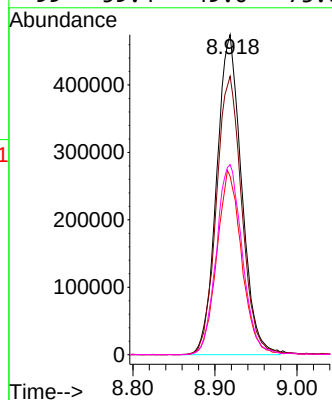
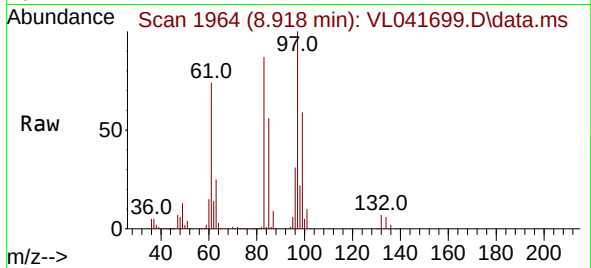


#47  
1,1,2-Trichloroethane  
Concen: 9.776 ppbv  
RT: 8.918 min Scan# 1957  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Instrument : MSVOA\_1  
ClientSampleId : VL1120ABS01

Tgt Ion: 97 Resp: 1003450

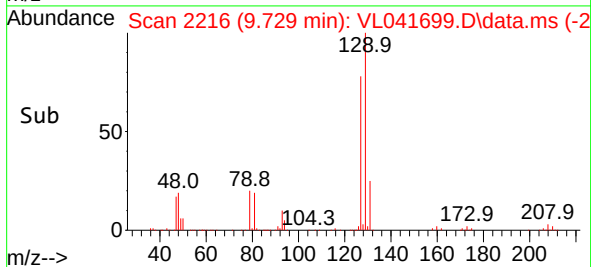
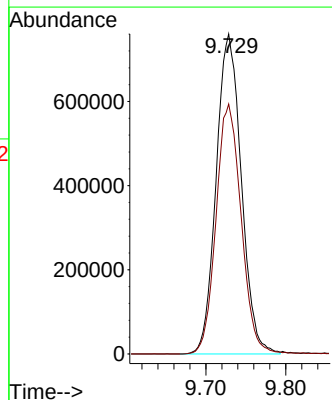
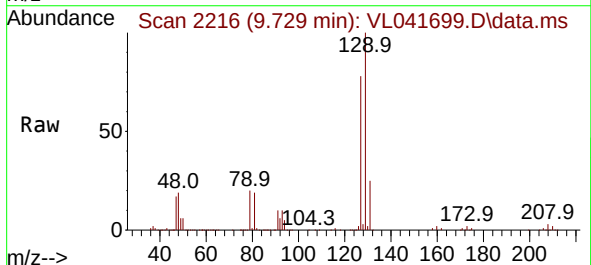
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 87.0  | 71.0  | 106.6 |
| 85  | 55.7  | 45.4  | 68.2  |
| 99  | 59.4  | 49.0  | 73.6  |

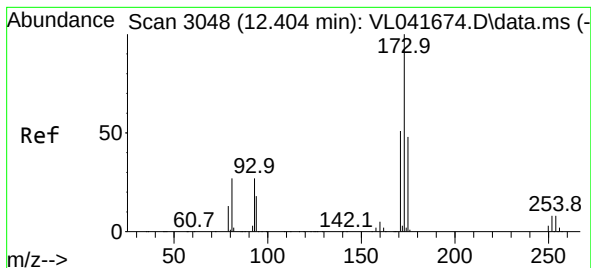


#48  
Dibromochloromethane  
Concen: 10.628 ppbv  
RT: 9.729 min Scan# 2216  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 129 Resp: 1658425

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.3  | 39.1  | 117.2 |





#49

Bromoform

Concen: 11.123 ppbv

RT: 12.423 min Scan# 3048

Delta R.T. 0.019 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

Instrument :

MSVOA\_1

ClientSampleId :

VL1120ABS01

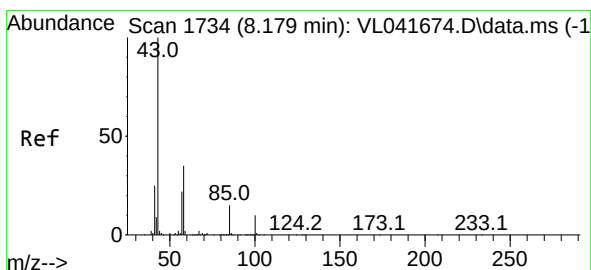
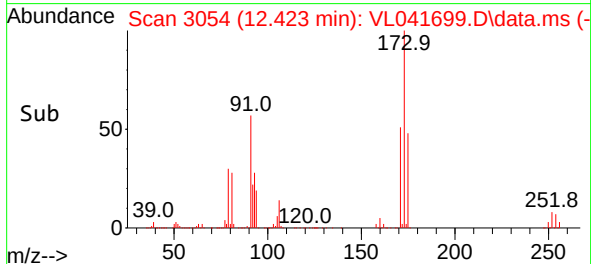
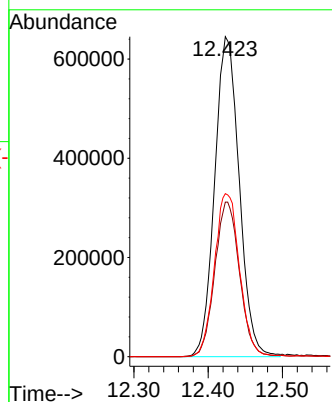
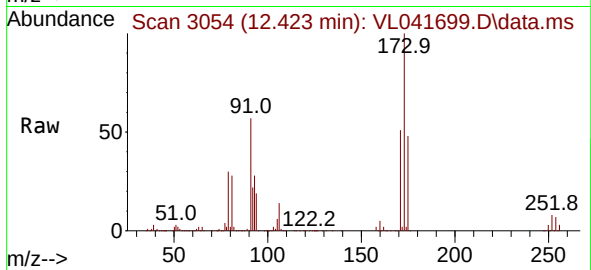
Tgt Ion:173 Resp: 1485005

Ion Ratio Lower Upper

173 100

175 48.9 39.2 58.8

171 52.3 41.7 62.5



#50

4-Methyl-2-Pentanone

Concen: 10.473 ppbv

RT: 8.198 min Scan# 1740

Delta R.T. 0.019 min

Lab File: VL041699.D

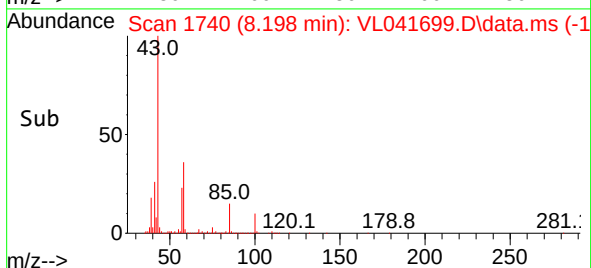
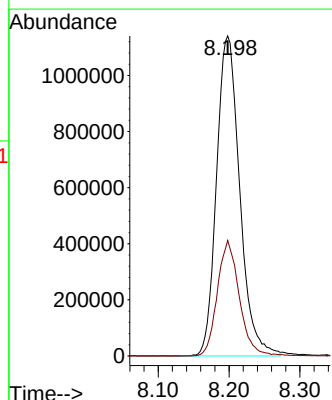
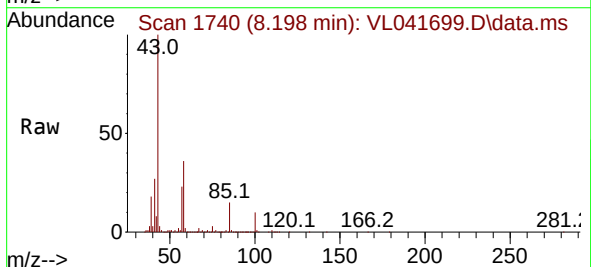
Acq: 20 Nov 2024 13:15

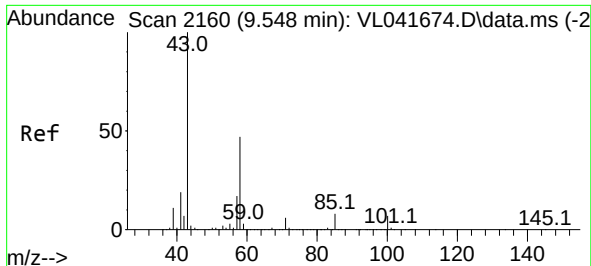
Tgt Ion: 43 Resp: 2593146

Ion Ratio Lower Upper

43 100

58 34.3 27.7 41.5

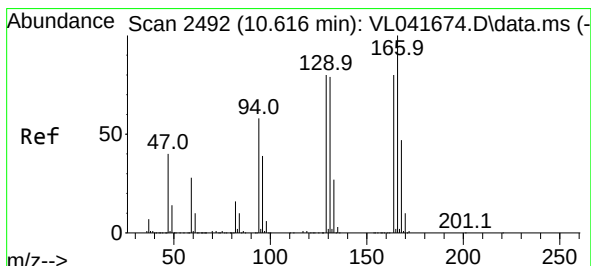
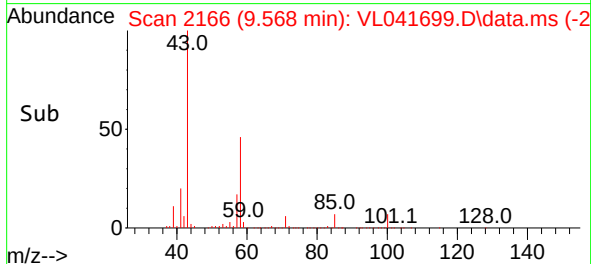
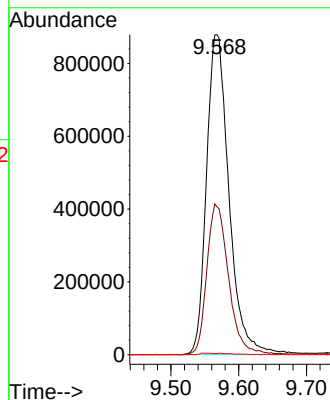
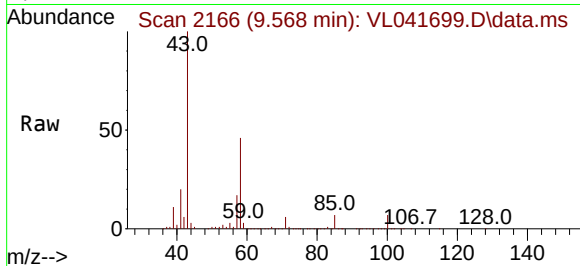




#51  
2-Hexanone  
Concen: 11.196 ppbv  
RT: 9.568 min Scan# 2160  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

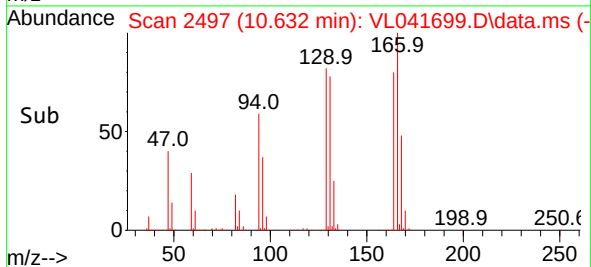
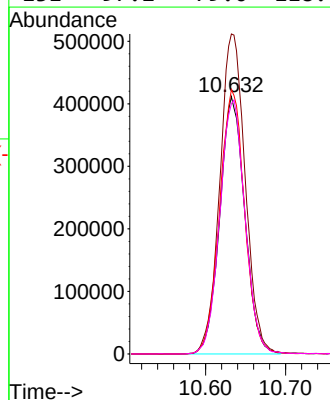
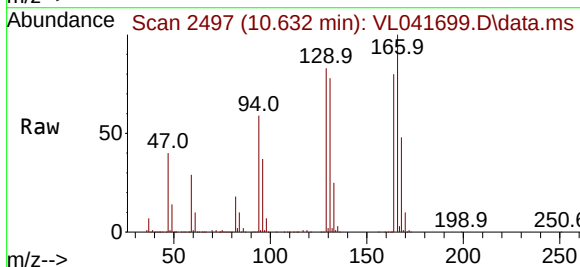
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

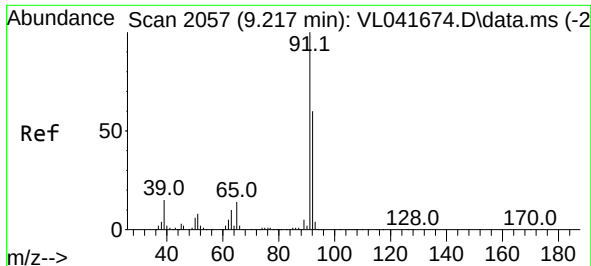
Tgt Ion: 43 Resp: 2018735  
Ion Ratio Lower Upper  
43 100  
58 46.0 37.0 55.6  
98 0.6 0.6 0.8



#52  
Tetrachloroethene  
Concen: 10.856 ppbv  
RT: 10.632 min Scan# 2497  
Delta R.T. 0.016 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 164 Resp: 887903  
Ion Ratio Lower Upper  
164 100  
166 124.3 100.2 150.4  
129 102.7 79.7 119.5  
131 97.2 79.0 118.4

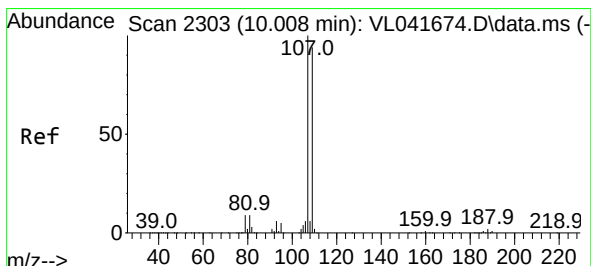
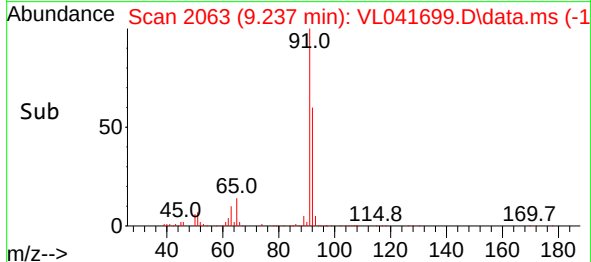
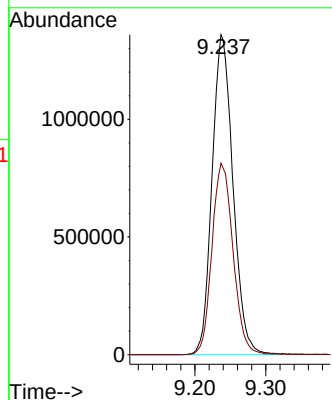
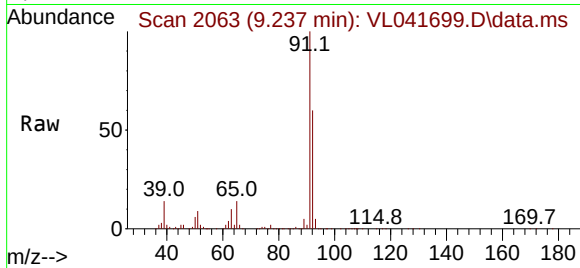




#53  
Toluene  
Concen: 11.016 ppbv  
RT: 9.237 min Scan# 2057  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

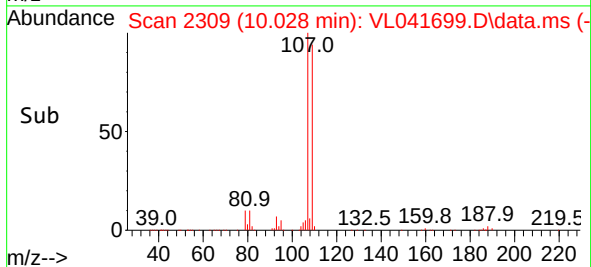
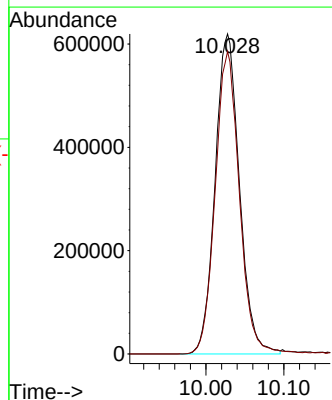
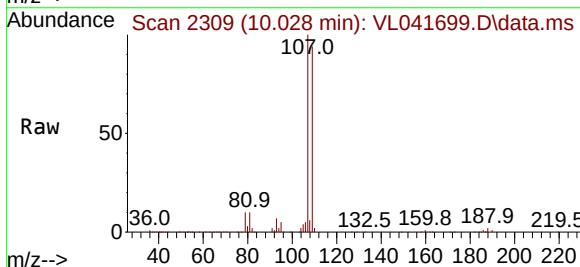
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

Tgt Ion: 91 Resp: 2780287  
Ion Ratio Lower Upper  
91 100  
92 60.6 49.0 73.4

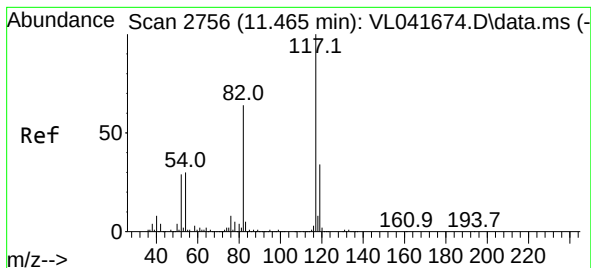


#54  
1,2-Dibromoethane  
Concen: 11.206 ppbv  
RT: 10.028 min Scan# 2309  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 107 Resp: 1343883  
Ion Ratio Lower Upper  
107 100  
109 94.5 74.9 112.3



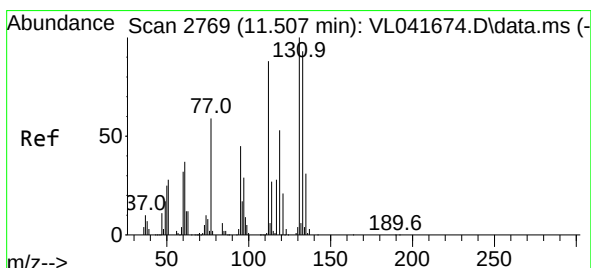
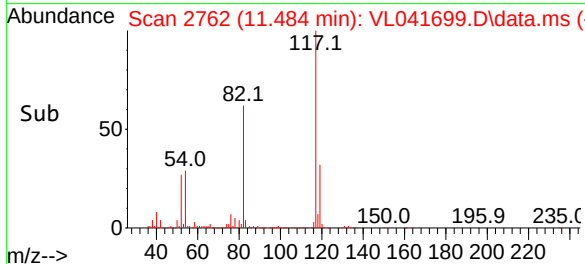
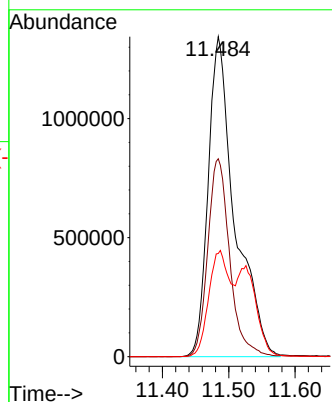
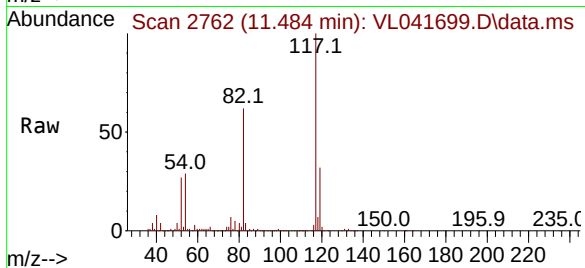




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.484 min Scan# 2756  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

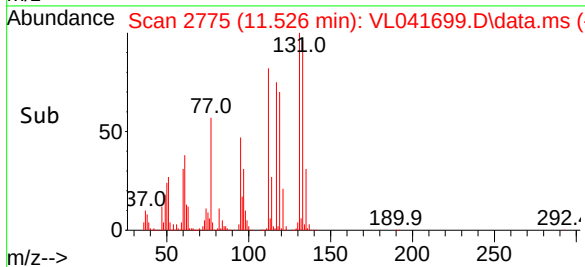
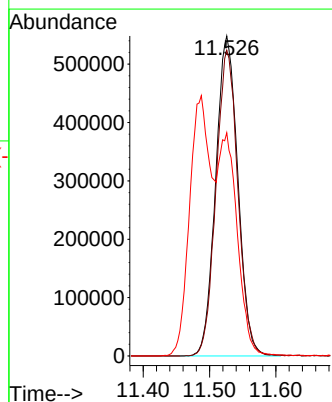
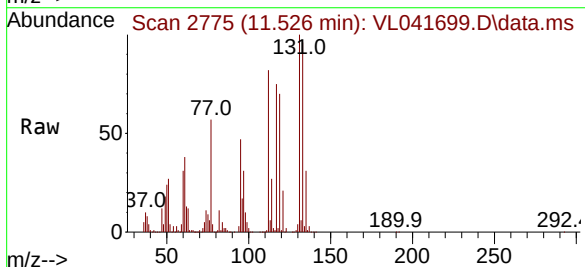
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

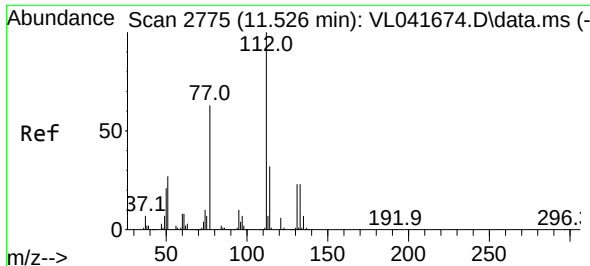
Tgt Ion:117 Resp: 3750301  
Ion Ratio Lower Upper  
117 100  
82 51.6 49.8 74.8  
119 26.2 24.2 36.4



#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.228 ppbv  
RT: 11.526 min Scan# 2775  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion:131 Resp: 1272657  
Ion Ratio Lower Upper  
131 100  
133 94.6 76.5 114.7  
119 63.0 49.8 74.8

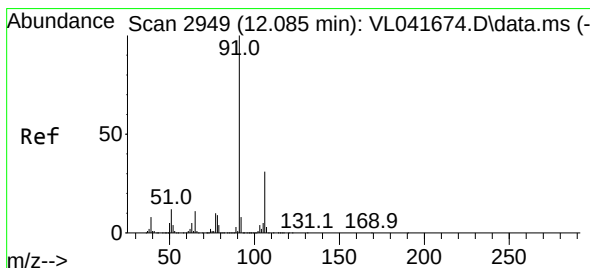
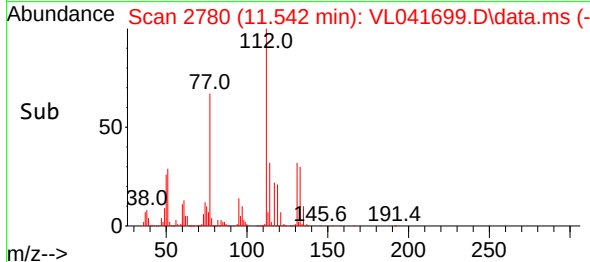
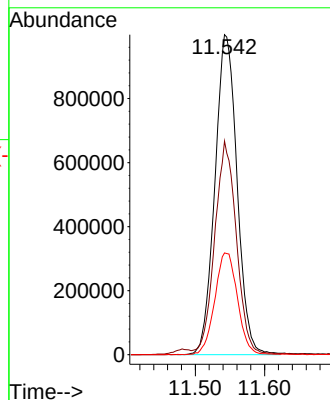
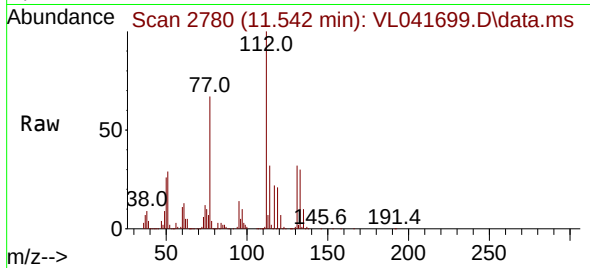




#57  
Chlorobenzene  
Concen: 8.018 ppbv  
RT: 11.542 min Scan# 211  
Delta R.T. 0.016 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

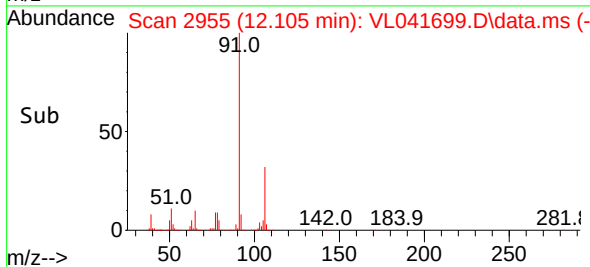
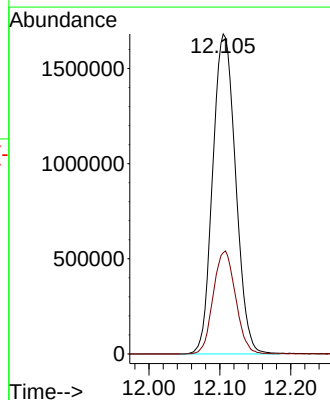
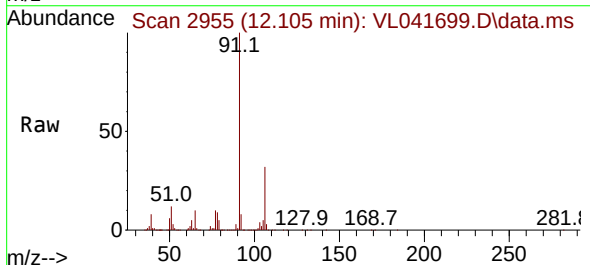
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1120ABS01

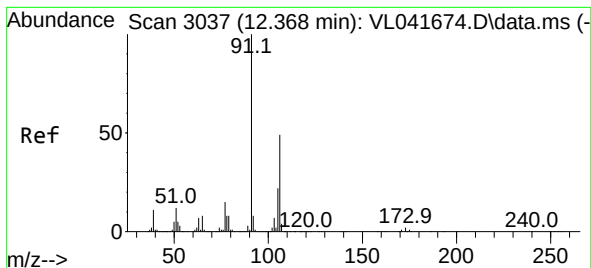
Tgt Ion:112 Resp: 2224042  
Ion Ratio Lower Upper  
112 100  
77 66.4 51.4 77.2  
114 31.8 28.4 34.8



#58  
Ethyl Benzene  
Concen: 9.192 ppbv  
RT: 12.105 min Scan# 2955  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 91 Resp: 3779084  
Ion Ratio Lower Upper  
91 100  
106 31.6 24.9 37.3

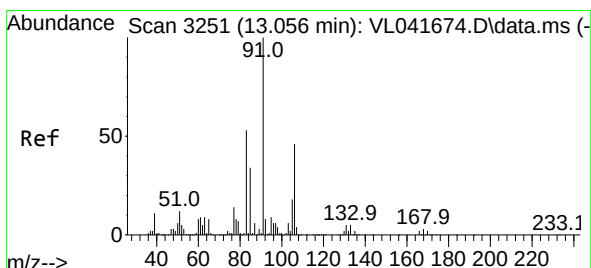
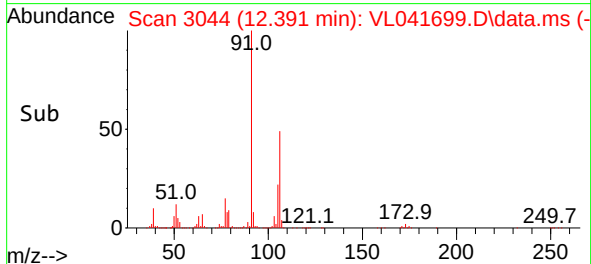
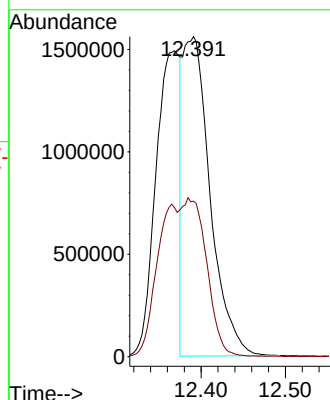
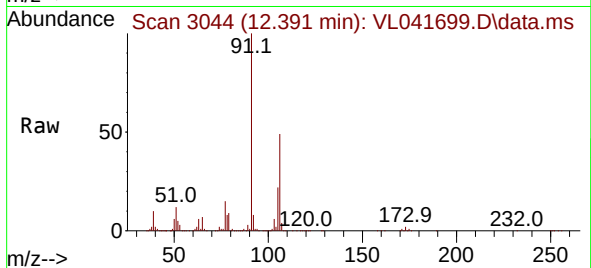




#59  
m/p-Xylene  
Concen: 9.544 ppbv  
RT: 12.391 min Scan# 3037  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

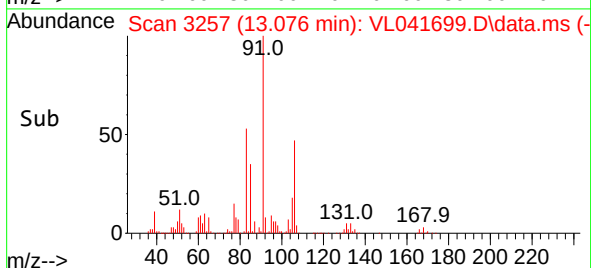
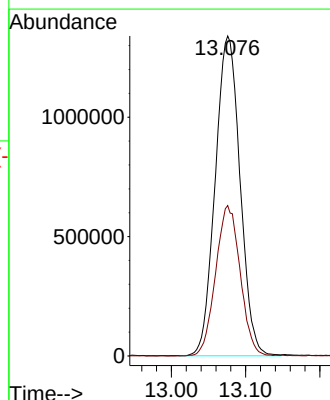
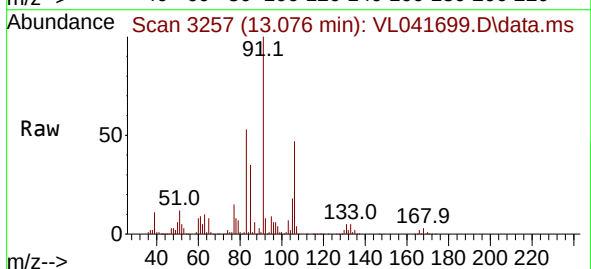
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

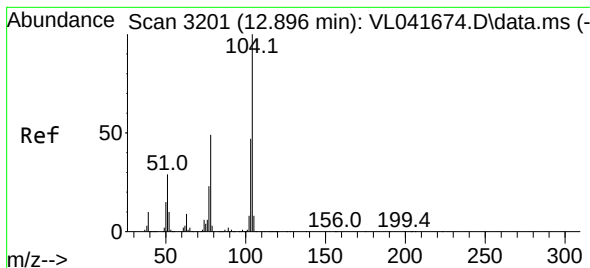
Tgt Ion: 91 Resp: 3514133  
Ion Ratio Lower Upper  
91 100  
106 84.8 36.9 55.3#



#60  
o-Xylene  
Concen: 8.864 ppbv  
RT: 13.076 min Scan# 3257  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 91 Resp: 3111959  
Ion Ratio Lower Upper  
91 100  
106 46.6 23.2 69.6





#61

Styrene

Concen: 10.377 ppbv

RT: 12.915 min Scan# 31

Delta R.T. 0.019 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

Instrument :

MSVOA\_L

ClientSampleId :

VL1120ABS01

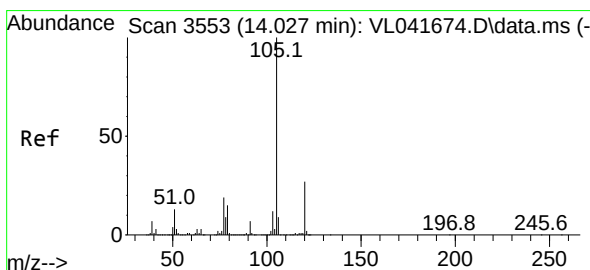
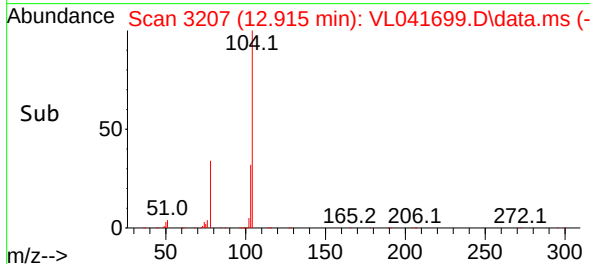
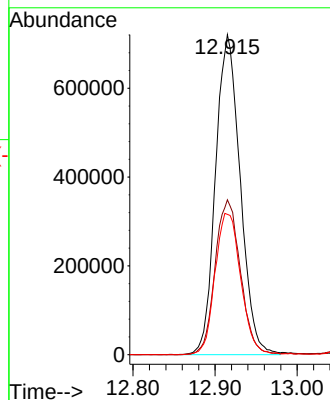
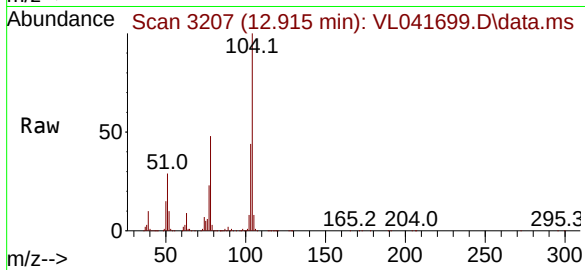
Tgt Ion:104 Resp: 1503740

Ion Ratio Lower Upper

104 100

78 49.9 39.8 59.8

103 46.4 37.4 56.0



#62

Isopropylbenzene

Concen: 8.535 ppbv

RT: 14.047 min Scan# 3559

Delta R.T. 0.019 min

Lab File: VL041699.D

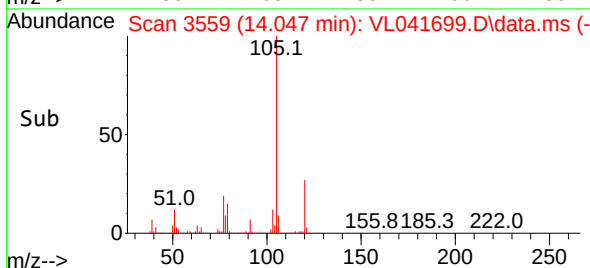
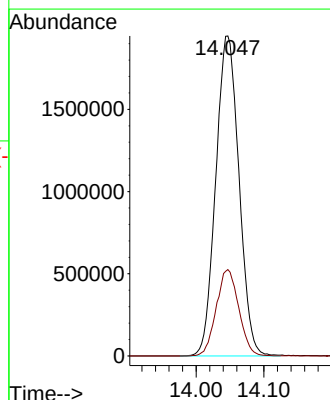
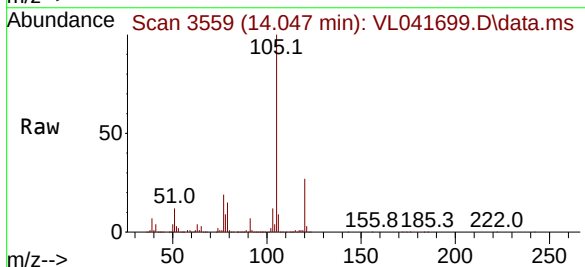
Acq: 20 Nov 2024 13:15

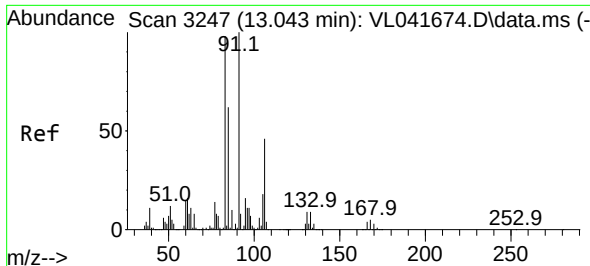
Tgt Ion:105 Resp: 4628133

Ion Ratio Lower Upper

105 100

120 26.2 21.1 31.7

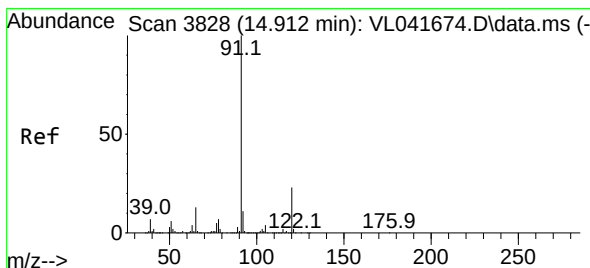
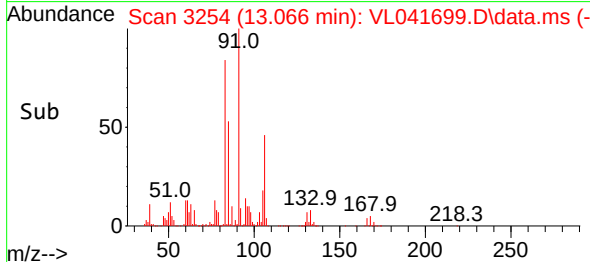
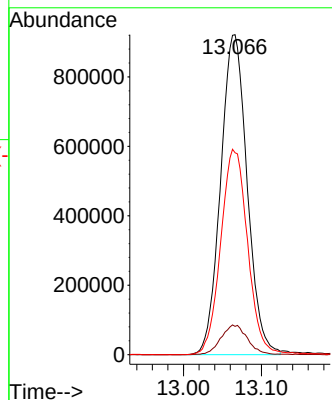
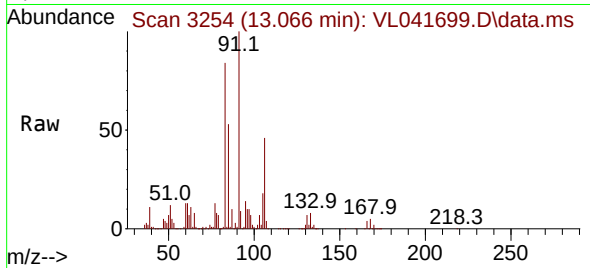




#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.440 ppbv  
RT: 13.066 min Scan# 31  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

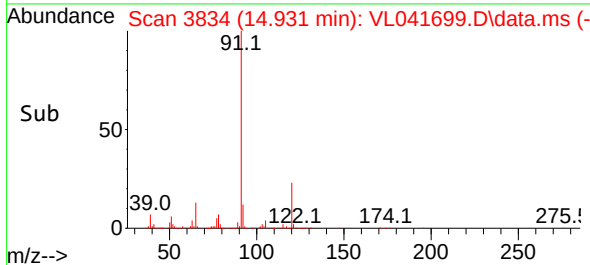
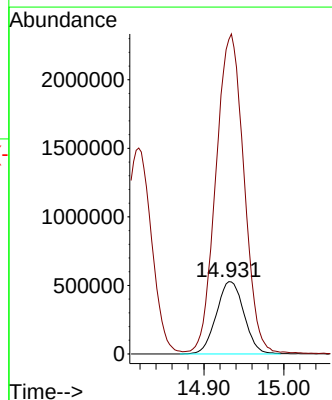
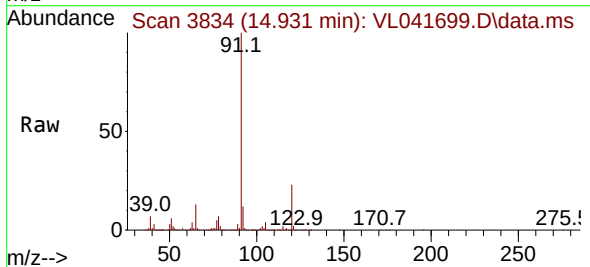
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

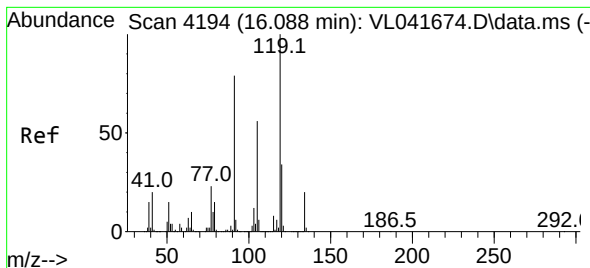
Tgt Ion: 83 Resp: 2179613  
Ion Ratio Lower Upper  
83 100  
131 9.4 4.8 14.3  
85 65.4 32.6 98.0



#64  
n-propylbenzene  
Concen: 8.907 ppbv  
RT: 14.931 min Scan# 3834  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion:120 Resp: 1264315  
Ion Ratio Lower Upper  
120 100  
91 451.4 362.4 543.6

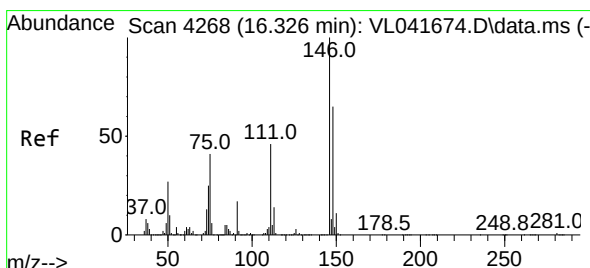
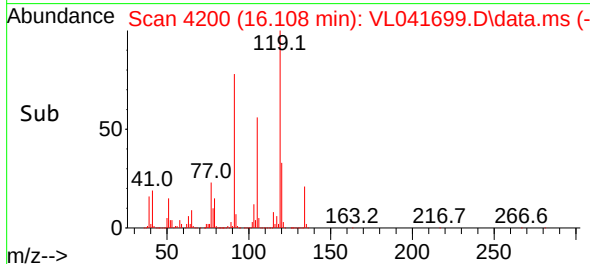
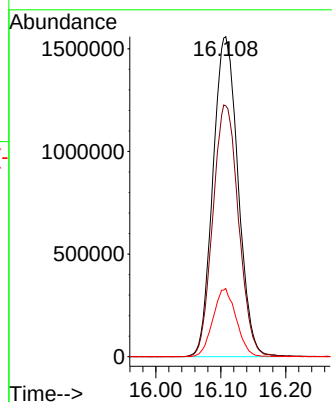
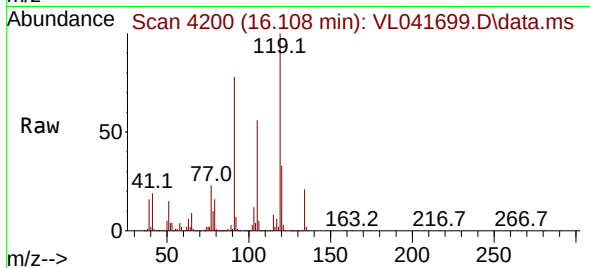




#65  
tert-Butylbenzene  
Concen: 8.589 ppbv  
RT: 16.108 min Scan# 4194  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

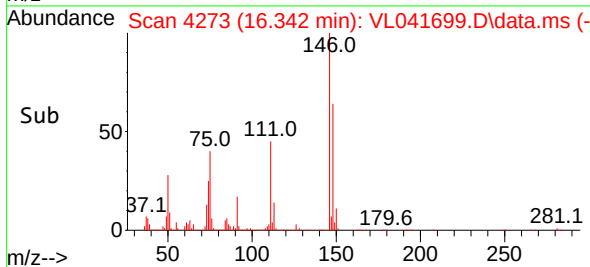
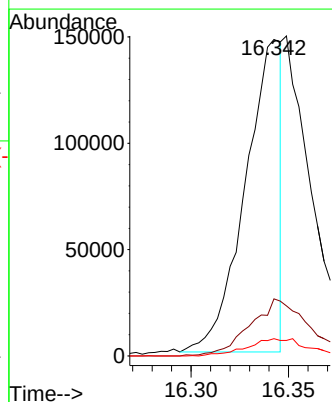
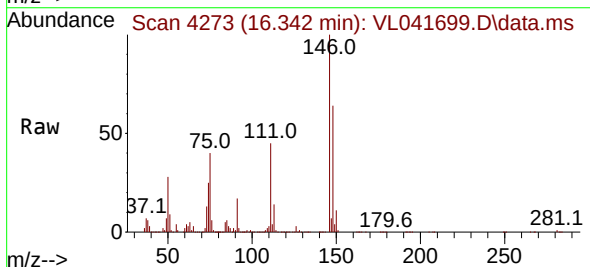
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

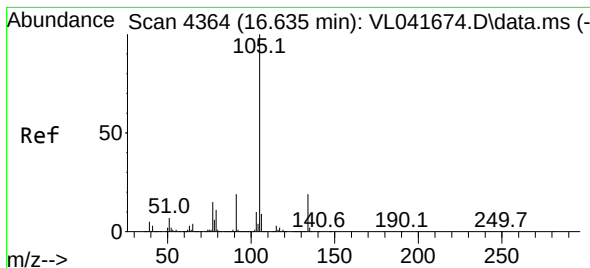
Tgt Ion:119 Resp: 4185885  
Ion Ratio Lower Upper  
119 100  
91 80.3 64.3 96.5  
134 19.8 15.8 23.8



#66  
Benzyl Chloride  
Concen: 5.064 ppbv  
RT: 16.342 min Scan# 4273  
Delta R.T. 0.016 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 91 Resp: 189850  
Ion Ratio Lower Upper  
91 100  
126 31.6 13.8 20.6#  
128 10.2 4.3 6.5#





#67

sec-Butylbenzene

Concen: 8.608 ppbv

RT: 16.651 min Scan# 41

Delta R.T. 0.016 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

Instrument :

MSVOA\_1

ClientSampleId :

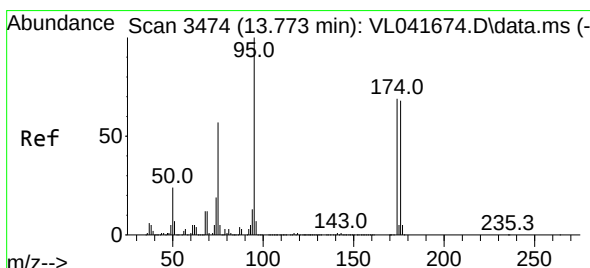
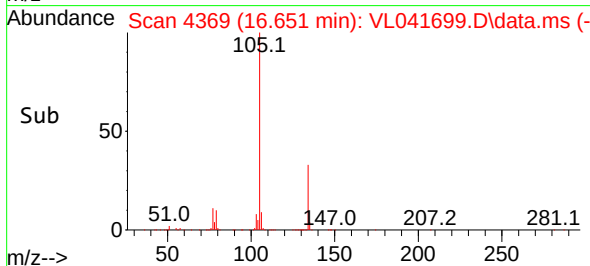
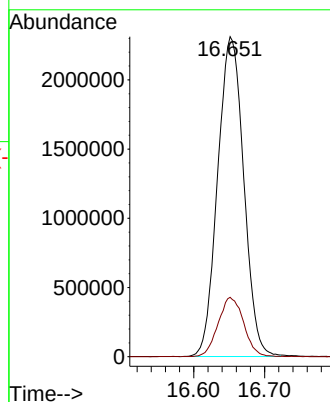
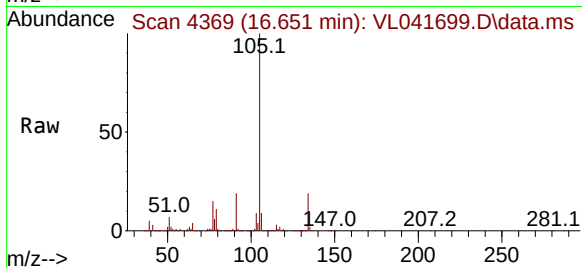
VL1120ABS01

Tgt Ion:105 Resp: 5912468

Ion Ratio Lower Upper

105 100

134 18.2 14.6 22.0



#68

1-Bromo-4-Fluorobenzene

Concen: 8.430 ppbv

RT: 13.793 min Scan# 3480

Delta R.T. 0.019 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

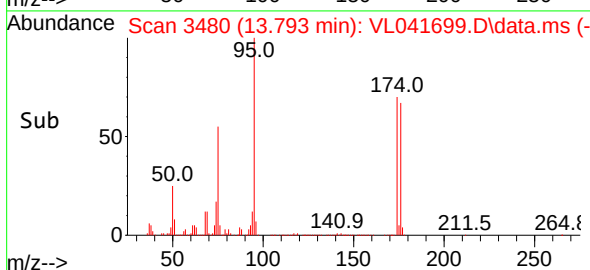
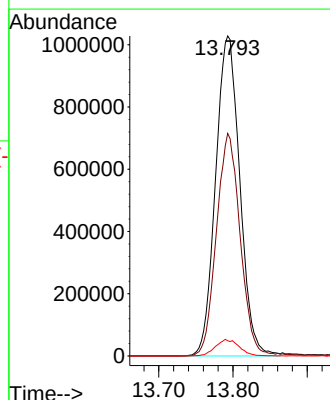
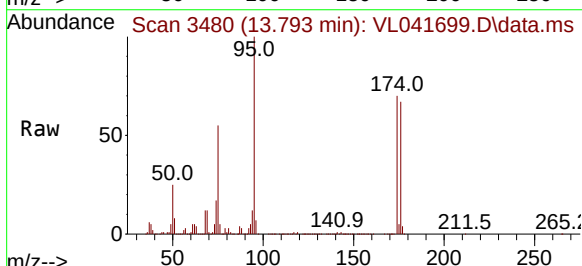
Tgt Ion: 95 Resp: 2329378

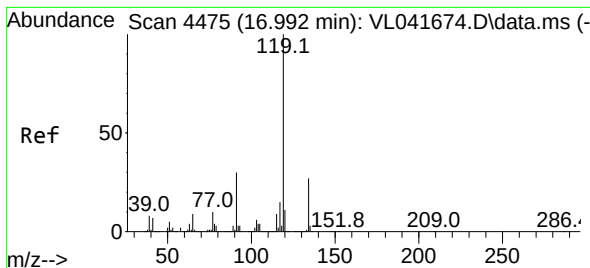
Ion Ratio Lower Upper

95 100

174 68.9 55.6 83.4

175 5.1 4.2 6.2

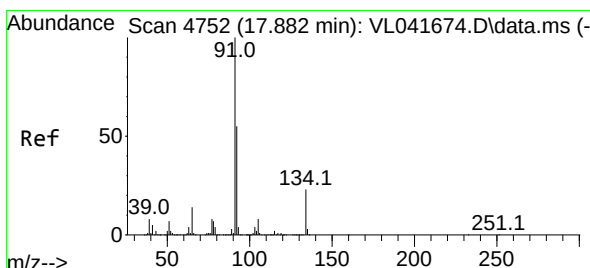
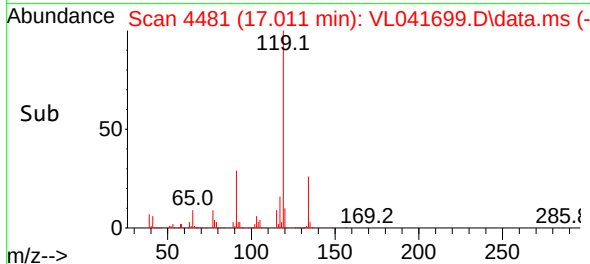
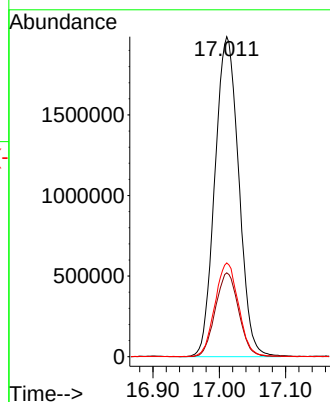
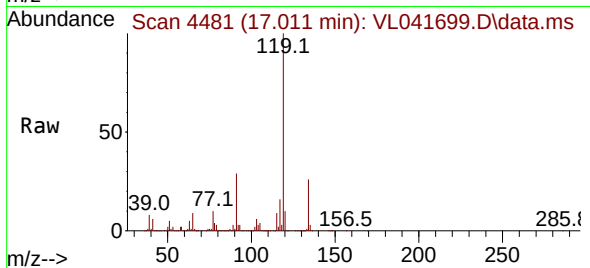




#69  
p-Isopropyltoluene  
Concen: 8.925 ppbv  
RT: 17.011 min Scan# 4475  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

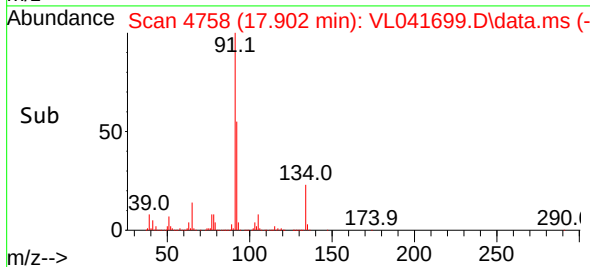
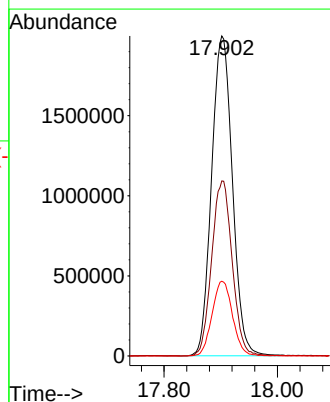
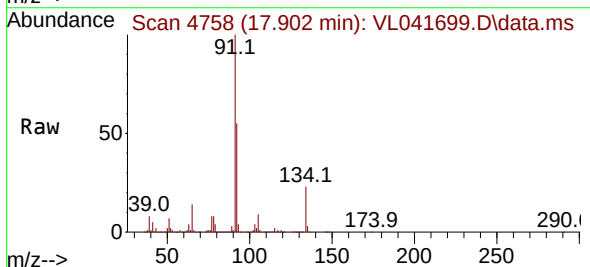
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

Tgt Ion:119 Resp: 4955798  
Ion Ratio Lower Upper  
119 100  
134 25.7 20.8 31.2  
91 28.9 23.2 34.8

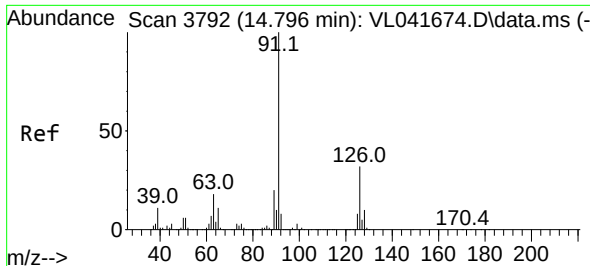


#70  
n-Butylbenzene  
Concen: 8.967 ppbv  
RT: 17.902 min Scan# 4758  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 91 Resp: 5094738  
Ion Ratio Lower Upper  
91 100  
92 54.0 43.3 64.9  
134 23.1 18.4 27.6



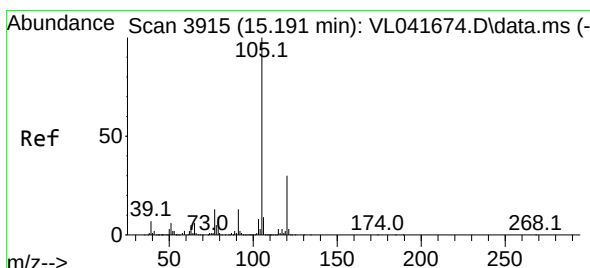
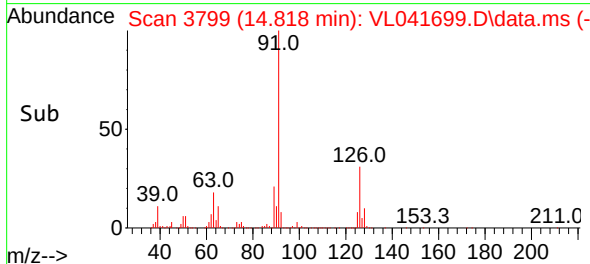
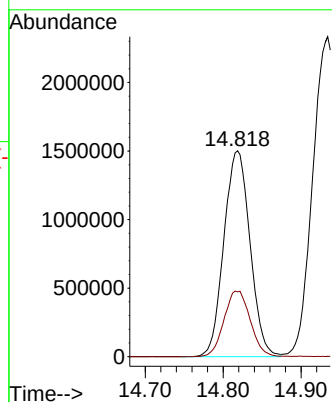
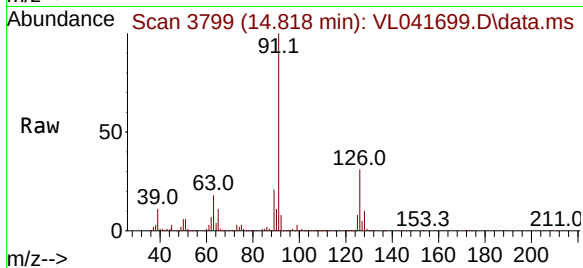




#71  
2-Chlorotoluene  
Concen: 8.946 ppbv  
RT: 14.818 min Scan# 31  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

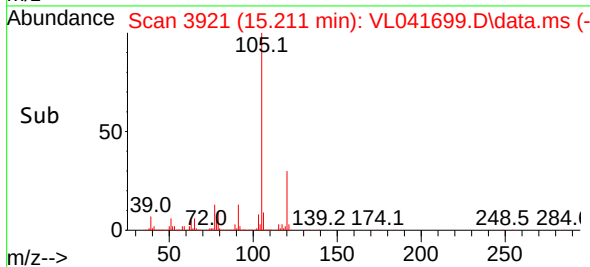
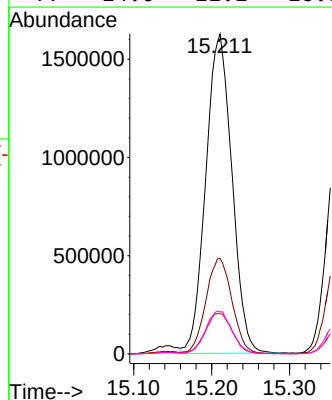
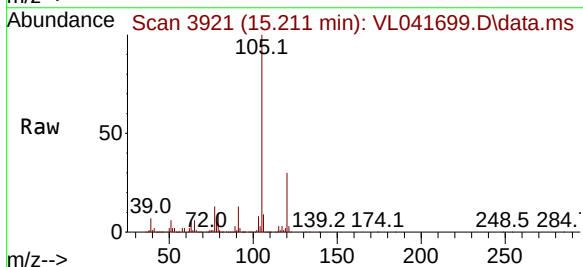
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

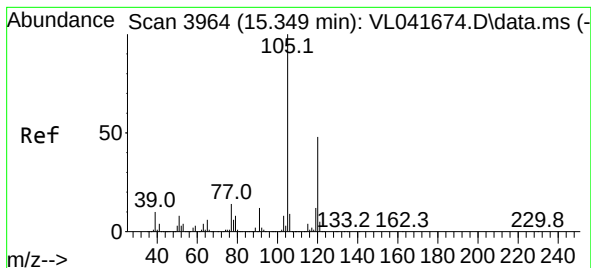
Tgt Ion: 91 Resp: 3506297  
Ion Ratio Lower Upper  
91 100  
126 32.2 12.8 51.0



#72  
4-Ethyltoluene  
Concen: 9.286 ppbv  
RT: 15.211 min Scan# 3921  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion: 105 Resp: 3790505  
Ion Ratio Lower Upper  
105 100  
120 30.8 25.0 37.4  
91 13.1 10.6 15.8  
77 14.0 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.056 ppbv

RT: 15.368 min Scan# 3964

Delta R.T. 0.019 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

Instrument :

MSVOA\_1

ClientSampleId :

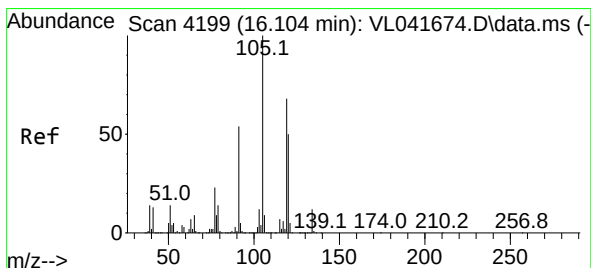
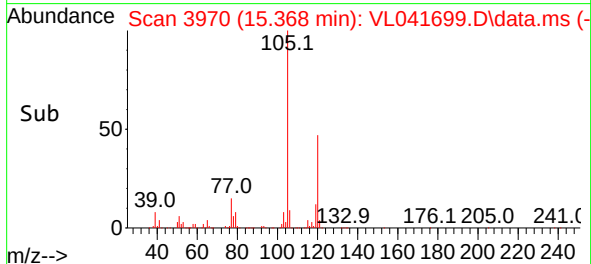
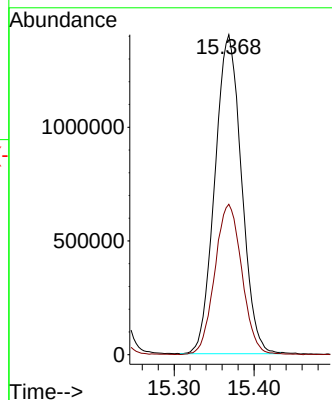
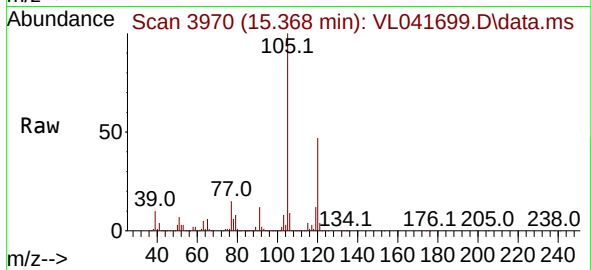
VL1120ABS01

Tgt Ion:105 Resp: 3243824

Ion Ratio Lower Upper

105 100

120 47.1 38.4 57.6



#74

1,2,4-Trimethylbenzene

Concen: 8.644 ppbv

RT: 16.124 min Scan# 4205

Delta R.T. 0.019 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

Tgt Ion:105 Resp: 3596562

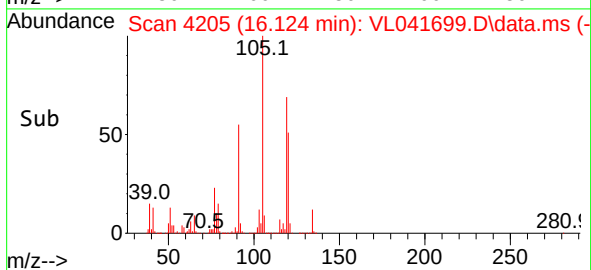
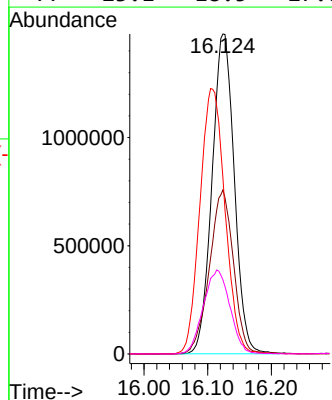
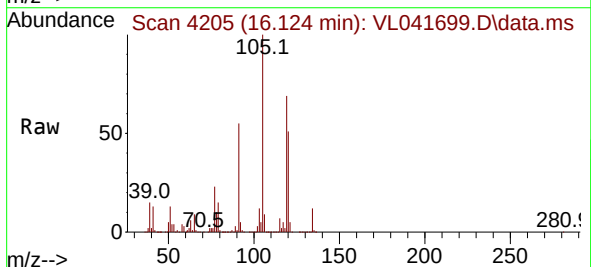
Ion Ratio Lower Upper

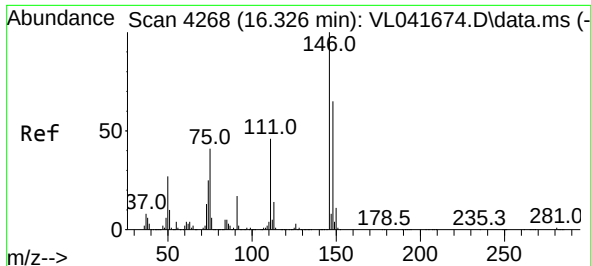
105 100

120 51.2 39.8 59.8

91 54.9 43.2 64.8

77 23.1 18.5 27.7

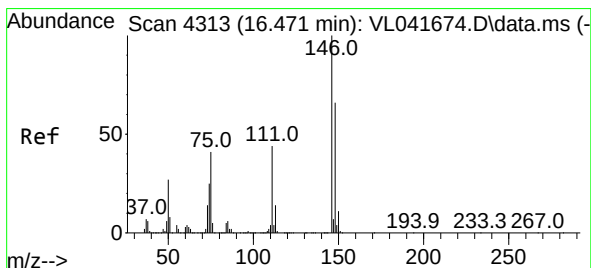
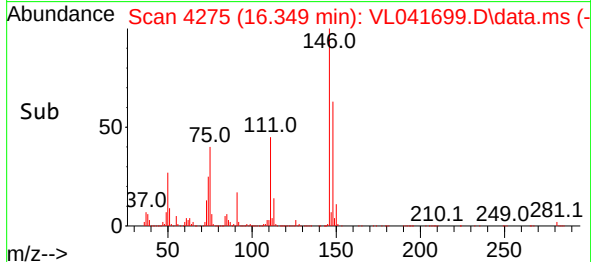
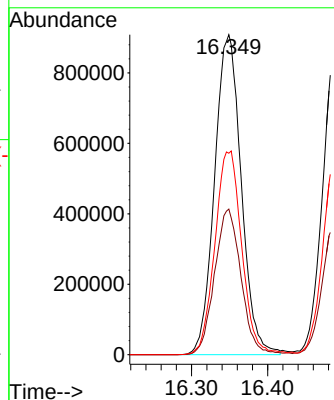
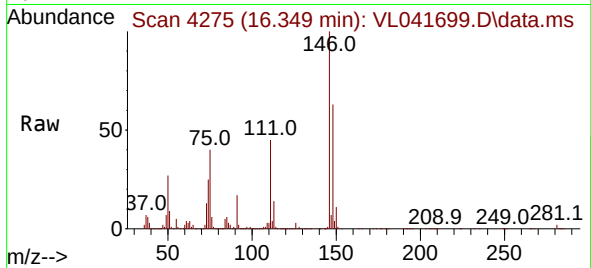




#75  
1,3-Dichlorobenzene  
Concen: 8.580 ppbv  
RT: 16.349 min Scan# 4319  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

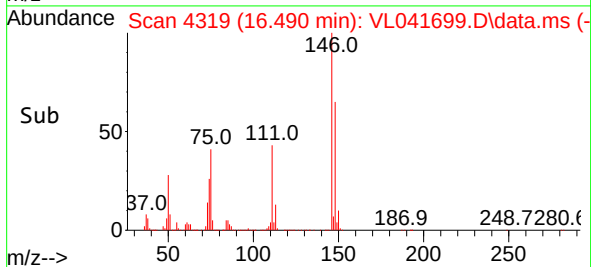
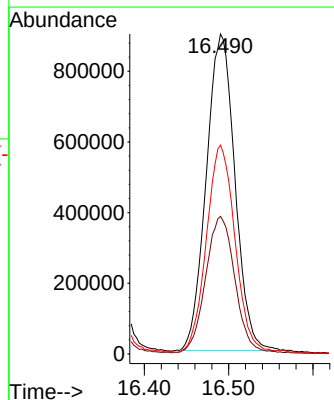
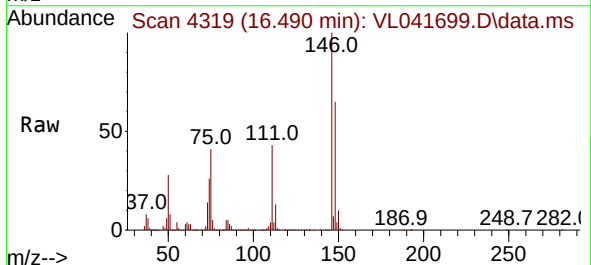
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

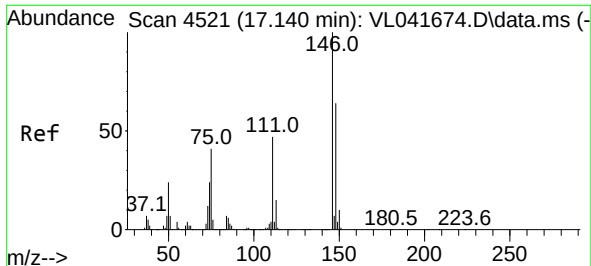
Tgt Ion:146 Resp: 2210855  
Ion Ratio Lower Upper  
146 100  
111 45.2 22.8 68.3  
148 64.1 32.4 97.0



#76  
1,4-Dichlorobenzene  
Concen: 8.508 ppbv  
RT: 16.490 min Scan# 4319  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion:146 Resp: 2115126  
Ion Ratio Lower Upper  
146 100  
111 45.3 22.1 66.3  
148 67.4 33.3 99.8

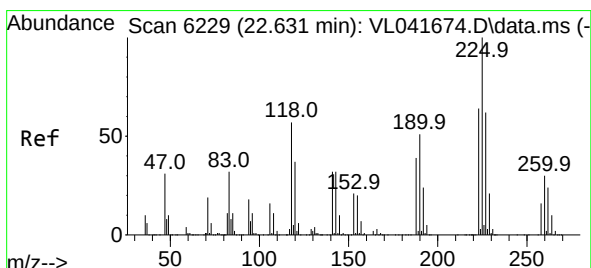
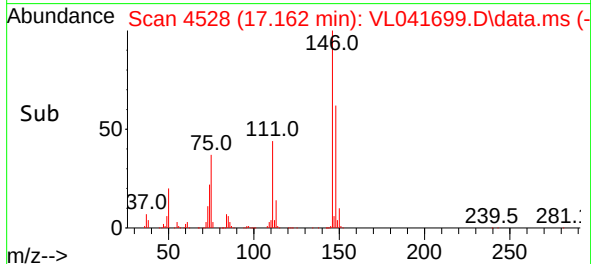
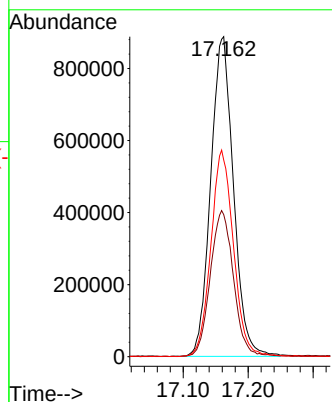
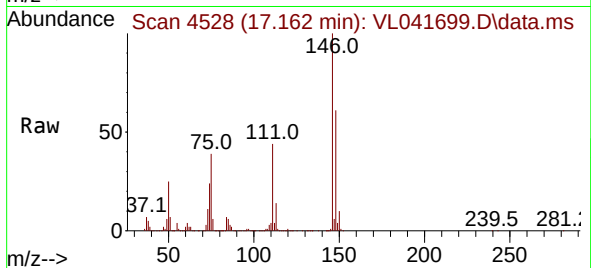




#77  
1,2-Dichlorobenzene  
Concen: 8.440 ppbv  
RT: 17.162 min Scan# 4528  
Delta R.T. 0.023 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

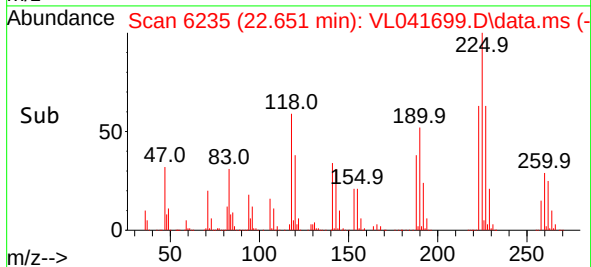
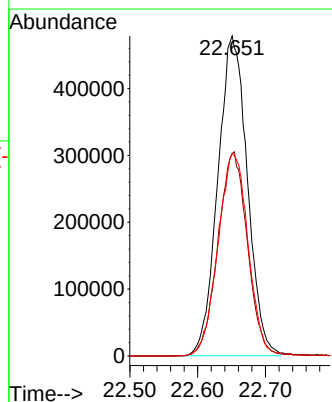
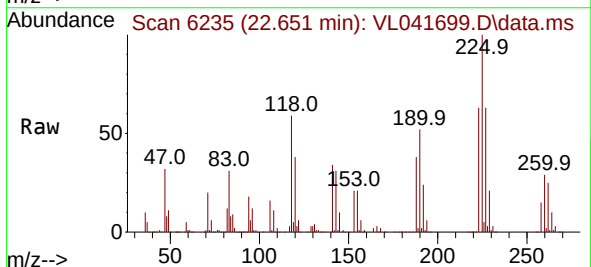
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1120ABS01

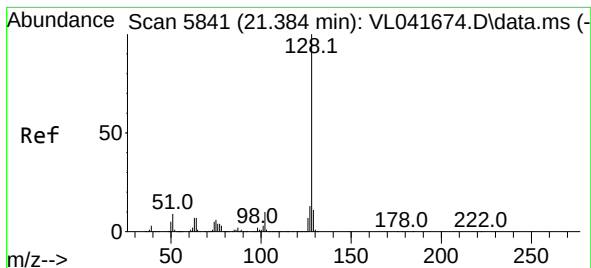
Tgt Ion:146 Resp: 2154411  
Ion Ratio Lower Upper  
146 100  
111 46.7 23.4 70.3  
148 64.3 32.1 96.5



#78  
Hexachloro-1,3-Butadiene  
Concen: 7.174 ppbv  
RT: 22.651 min Scan# 6235  
Delta R.T. 0.019 min  
Lab File: VL041699.D  
Acq: 20 Nov 2024 13:15

Tgt Ion:225 Resp: 1448199  
Ion Ratio Lower Upper  
225 100  
223 63.8 51.1 76.7  
227 64.8 51.3 76.9





#79

Naphthalene

Concen: 11.320 ppbv

RT: 21.403 min Scan# 5847

Delta R.T. 0.019 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

Instrument :

MSVOA\_1

ClientSampleId :

VL1120ABS01

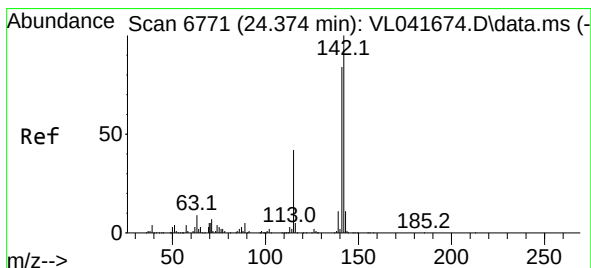
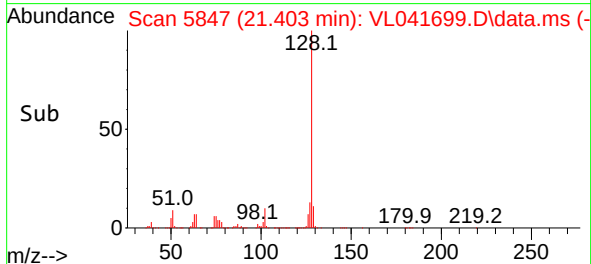
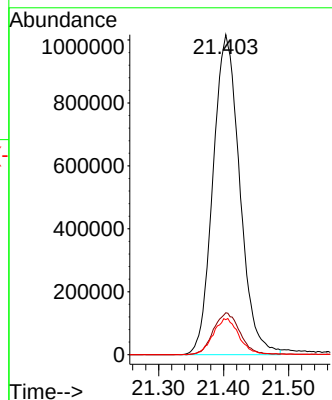
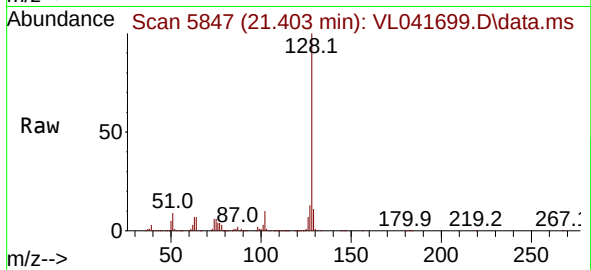
Tgt Ion:128 Resp: 2907132

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

129 10.9 8.7 13.1



#80

Naphthalene,2-methyl-

Concen: 9.185 ppbv

RT: 24.390 min Scan# 6776

Delta R.T. 0.016 min

Lab File: VL041699.D

Acq: 20 Nov 2024 13:15

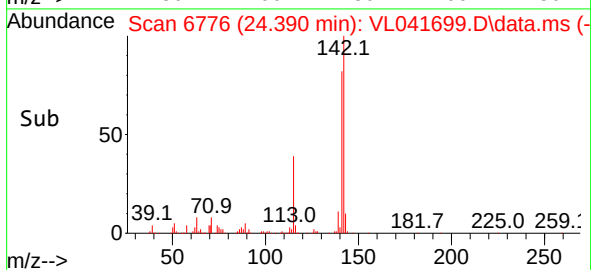
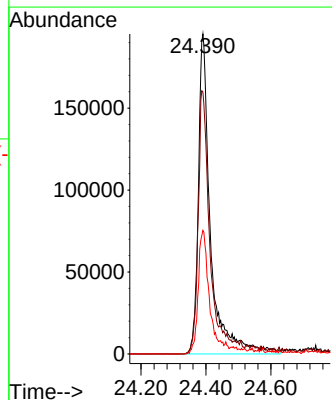
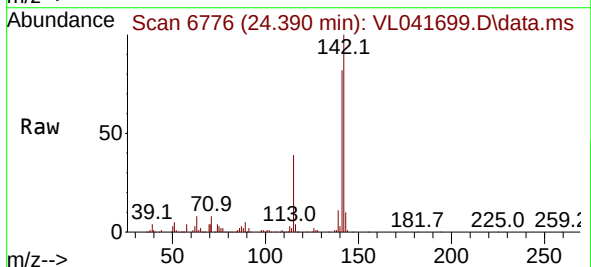
Tgt Ion:142 Resp: 514199

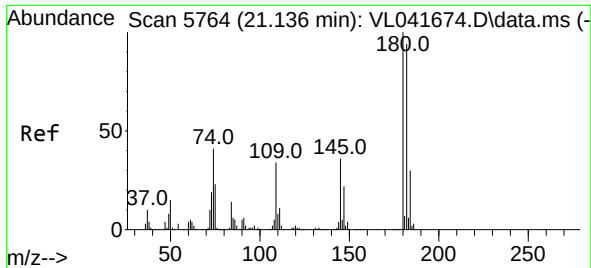
Ion Ratio Lower Upper

142 100

141 79.1 68.1 102.1

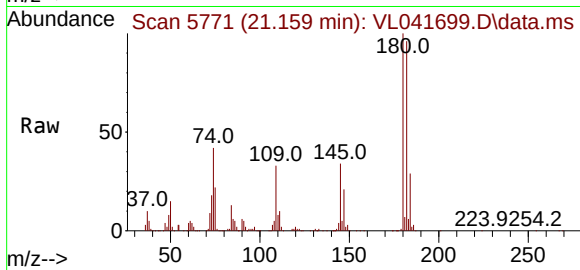
115 37.3 33.1 49.7



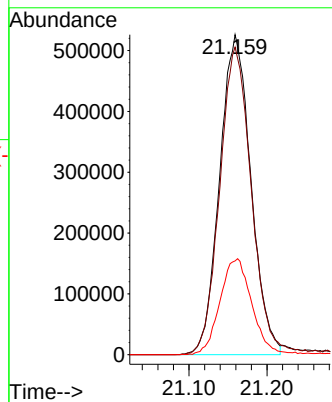
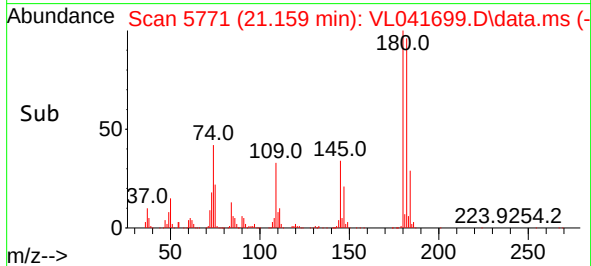


#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.073 ppbv  
 RT: 21.159 min Scan# 51  
 Delta R.T. 0.023 min  
 Lab File: VL041699.D  
 Acq: 20 Nov 2024 13:15

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1120ABS01



|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 180   | Resp: | 1465322 |
| Ion      | Ratio | Lower | Upper   |
| 180      | 100   |       |         |
| 182      | 97.9  | 78.2  | 117.2   |
| 184      | 30.8  | 25.0  | 37.4    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112124\  
 Data File : VL041711.D  
 Acq On : 21 Nov 2024 8:50  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Nov 22 01:01:27 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 22 01:00:55 2024  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.221  | 49   | 1173714  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.684  | 114  | 3217567  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.497 | 117  | 3707892  | 10.000 | ppbv  | # 0.00   |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 13.806 | 95    | 2257188  | 8.262    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 82.600% |

|                               |       |     |         |        |        |     |
|-------------------------------|-------|-----|---------|--------|--------|-----|
| Target Compounds              |       |     |         |        | Qvalue |     |
| 2) Dichlorodifluoromethane    | 2.758 | 85  | 1422464 | 6.705  | ppbv   | 99  |
| 3) Chlorodifluoromethane      | 2.703 | 51  | 1408647 | 9.211  | ppbv   | 99  |
| 4) Chloromethane              | 2.841 | 50  | 772568  | 9.537  | ppbv   | 100 |
| 5) Vinyl Chloride             | 2.948 | 62  | 738827  | 10.139 | ppbv   | 99  |
| 6) Bromomethane               | 3.147 | 94  | 378603  | 9.794  | ppbv   | 97  |
| 7) Chloroethane               | 3.227 | 64  | 268516  | 10.097 | ppbv   | 99  |
| 8) Dichlorotetrafluoroethane  | 2.883 | 85  | 1753531 | 9.260  | ppbv   | 98  |
| 9) Propene                    | 2.722 | 41  | 628191  | 9.427  | ppbv   | 98  |
| 10) Heptane                   | 7.610 | 43  | 1564942 | 10.481 | ppbv   | 99  |
| 11) Trichlorofluoromethane    | 3.591 | 101 | 1745375 | 9.446  | ppbv   | 99  |
| 12) 1,1,2-Trichlorotrifluo... | 4.095 | 101 | 1298147 | 9.665  | ppbv   | 99  |
| 13) Ethanol                   | 3.275 | 45  | 19131   | 4.689  | ppbv # | 47  |
| 14) Bromoethene               | 3.394 | 108 | 526015  | 9.742  | ppbv   | 97  |
| 15) Acetone                   | 3.497 | 43  | 1333944 | 9.235  | ppbv   | 98  |
| 16) 1,3-Butadiene             | 3.012 | 39  | 739980  | 10.153 | ppbv   | 100 |
| 17) tert-Butyl alcohol        | 3.906 | 59  | 1267990 | 10.003 | ppbv   | 99  |
| 18) 1,1-Dichloroethene        | 3.909 | 96  | 571205  | 9.697  | ppbv   | 94  |
| 19) Isopropyl Alcohol         | 3.603 | 45  | 682305  | 9.882  | ppbv   | 99  |
| 20) Methylene Chloride        | 3.960 | 84  | 481797  | 9.064  | ppbv   | 95  |
| 21) Allyl Chloride            | 4.025 | 41  | 904964  | 10.138 | ppbv   | 99  |
| 22) trans-1,2-Dichloroethene  | 4.475 | 96  | 587155  | 10.025 | ppbv   | 97  |
| 23) Vinyl Acetate             | 4.655 | 43  | 629204  | 9.881  | ppbv   | 99  |
| 24) 1,1-Dichloroethane        | 4.594 | 63  | 1253068 | 9.585  | ppbv   | 99  |
| 25) Ethyl Acetate             | 5.234 | 43  | 2952376 | 9.874  | ppbv   | 100 |
| 26) Hexane                    | 5.243 | 57  | 1169502 | 10.181 | ppbv   | 98  |
| 27) Carbon Disulfide          | 4.153 | 76  | 1403031 | 10.871 | ppbv   | 99  |
| 28) Methyl tert-Butyl Ether   | 4.616 | 73  | 715210  | 9.668  | ppbv   | 100 |
| 29) Chloroform                | 5.308 | 83  | 1799780 | 9.492  | ppbv   | 100 |
| 30) Cyclohexane               | 6.632 | 84  | 990103  | 10.122 | ppbv   | 99  |
| 31) cis-1,2-Dichloroethene    | 5.108 | 61  | 1127435 | 10.202 | ppbv   | 99  |
| 32) 1,1,1-Trichloroethane     | 6.034 | 97  | 1761688 | 10.184 | ppbv   | 99  |
| 34) 2-Butanone                | 4.816 | 43  | 1449252 | 9.046  | ppbv   | 99  |
| 35) Carbon Tetrachloride      | 6.526 | 117 | 1827244 | 10.764 | ppbv   | 97  |
| 36) Benzene                   | 6.401 | 78  | 2463354 | 10.333 | ppbv   | 99  |
| 37) 1,2-Dichloroethane        | 5.838 | 62  | 1361156 | 10.120 | ppbv   | 99  |
| 38) Trichloroethene           | 7.327 | 130 | 1001170 | 10.934 | ppbv   | 99  |
| 39) 1,2-Dichloropropane       | 7.108 | 63  | 946394  | 10.045 | ppbv   | 98  |
| 40) 1,4-Dioxane               | 7.317 | 88  | 369652  | 10.936 | ppbv # | 1   |
| 41) Tetrahydrofuran           | 5.587 | 42  | 1011478 | 11.055 | ppbv   | 100 |
| 42) Bromodichloromethane      | 7.282 | 83  | 1950791 | 10.438 | ppbv   | 100 |
| 43) Methyl Methacrylate       | 7.507 | 69  | 960580  | 11.476 | ppbv   | 99  |
| 44) 2,2,4-Trimethylpentane    | 7.356 | 57  | 4139526 | 10.251 | ppbv   | 100 |
| 45) t-1,3-Dichloropropene     | 8.741 | 75  | 943007  | 12.329 | ppbv   | 99  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112124\  
 Data File : VL041711.D  
 Acq On : 21 Nov 2024 8:50  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

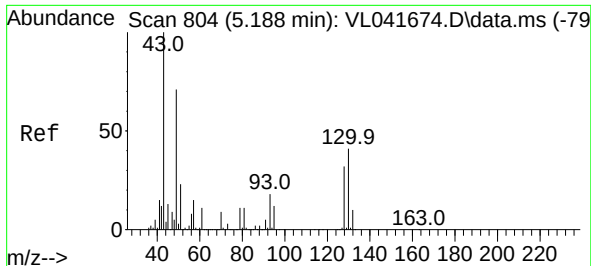
Quant Time: Nov 22 01:01:27 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 22 01:00:55 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.172  | 75   | 1279587  | 11.647 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 8.931  | 97   | 1009245  | 9.898  | ppbv   | 98       |
| 48) Dibromochloromethane      | 9.741  | 129  | 1661895  | 10.722 | ppbv   | 100      |
| 49) Bromoform                 | 12.439 | 173  | 1469304  | 11.079 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.211  | 43   | 2653020  | 10.787 | ppbv   | 100      |
| 51) 2-Hexanone                | 9.581  | 43   | 2052626  | 11.460 | ppbv   | 99       |
| 52) Tetrachloroethene         | 10.648 | 164  | 903960   | 11.127 | ppbv   | 99       |
| 53) Toluene                   | 9.253  | 91   | 2837342  | 11.317 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.040 | 107  | 1367674  | 11.480 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.539 | 131  | 1253171  | 8.195  | ppbv   | 98       |
| 57) Chlorobenzene             | 11.558 | 112  | 2202336  | 8.031  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.121 | 91   | 3808048  | 9.368  | ppbv   | 99       |
| 59) m/p-Xylene                | 12.404 | 91   | 3294190  | 9.049  | ppbv # | 33       |
| 60) o-Xylene                  | 13.089 | 91   | 3108102  | 8.954  | ppbv   | 99       |
| 61) Styrene                   | 12.928 | 104  | 1498189  | 10.457 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.060 | 105  | 4585032  | 8.553  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.079 | 83   | 2155854  | 8.443  | ppbv   | 100      |
| 64) n-propylbenzene           | 14.944 | 120  | 1243110  | 8.858  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.117 | 119  | 4092301  | 8.493  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.359 | 91   | 360391   | 9.723  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 16.667 | 105  | 5768247  | 8.494  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.027 | 119  | 4812497  | 8.766  | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.918 | 91   | 4962014  | 8.833  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 14.831 | 91   | 3484566  | 8.992  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.224 | 105  | 3736233  | 9.258  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.381 | 105  | 3182515  | 8.987  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.140 | 105  | 3517746  | 8.552  | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 16.362 | 146  | 2166163  | 8.503  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 16.506 | 146  | 2095111  | 8.524  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.175 | 146  | 2109445  | 8.358  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 22.664 | 225  | 741691   | 3.716  | ppbv # | 22       |
| 79) Naphthalene               | 21.419 | 128  | 2952462  | 11.628 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.400 | 142  | 630748   | 11.396 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.175 | 180  | 1501117  | 9.401  | ppbv   | 99       |

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



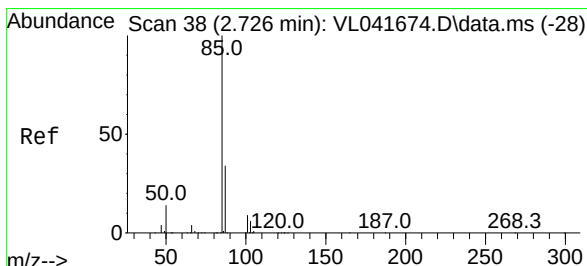
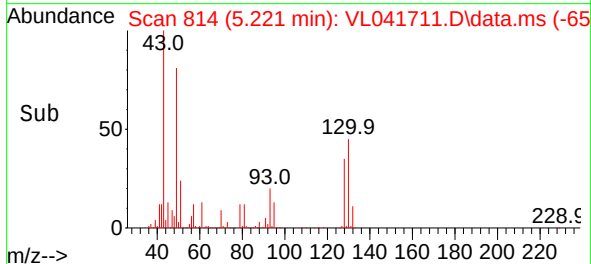
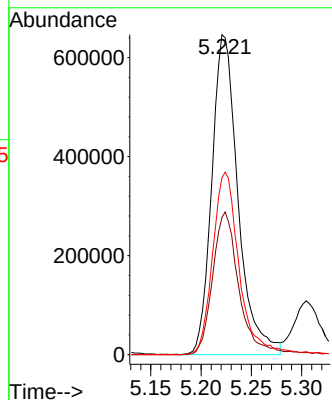
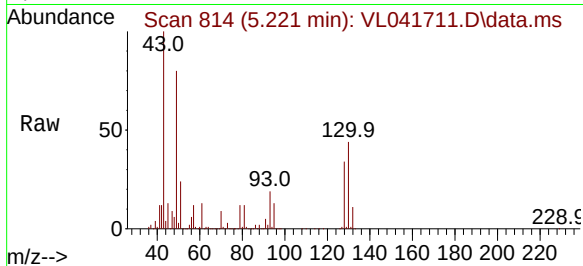




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.221 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

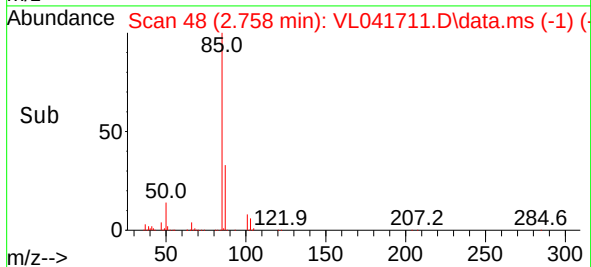
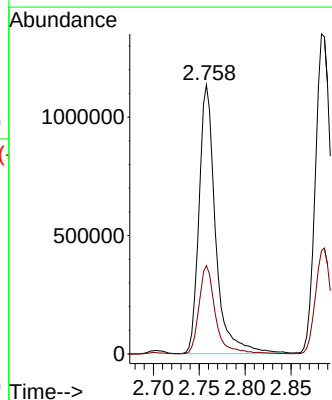
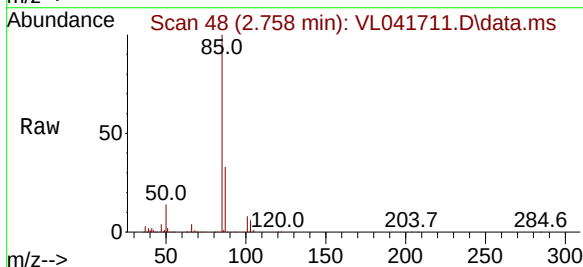
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

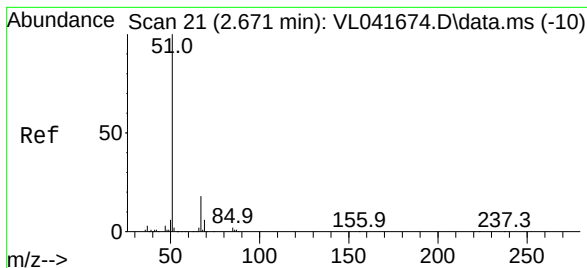
Tgt Ion: 49 Resp: 1173714  
Ion Ratio Lower Upper  
49 100  
128 44.9 23.8 71.2  
130 58.5 30.1 90.5



#2  
Dichlorodifluoromethane  
Concen: 6.705 ppbv  
RT: 2.758 min Scan# 48  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 85 Resp: 1422464  
Ion Ratio Lower Upper  
85 100  
87 32.8 26.8 40.2





#3

Chlorodifluoromethane

Concen: 9.211 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

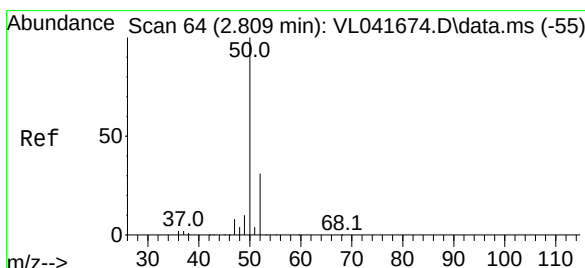
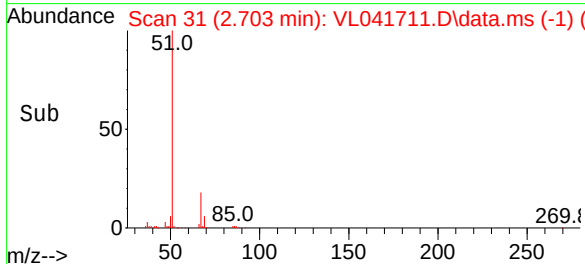
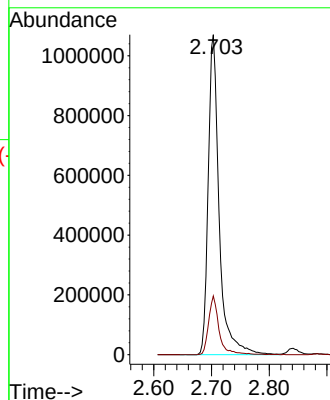
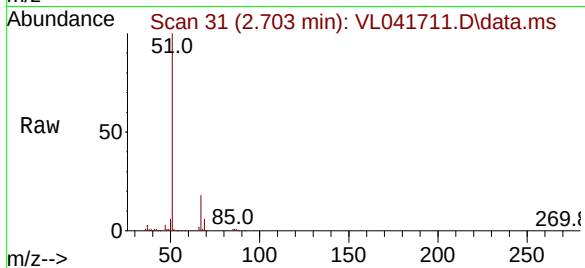
VSTDCCC010

Tgt Ion: 51 Resp: 1408647

Ion Ratio Lower Upper

51 100

67 17.7 13.9 20.9



#4

Chloromethane

Concen: 9.537 ppbv

RT: 2.841 min Scan# 74

Delta R.T. 0.000 min

Lab File: VL041711.D

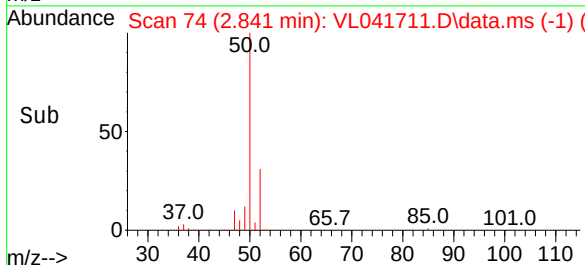
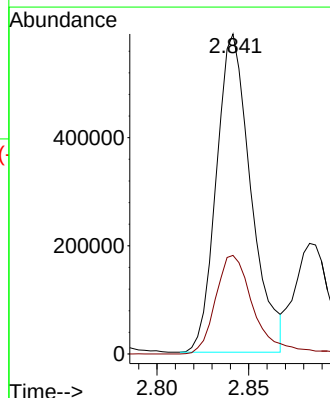
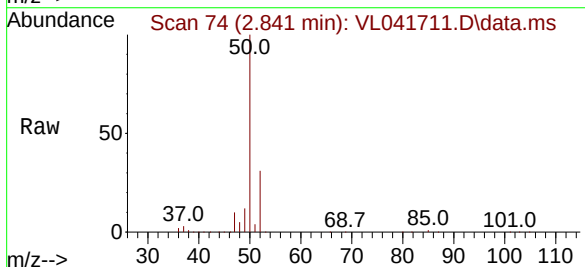
Acq: 21 Nov 2024 8:50

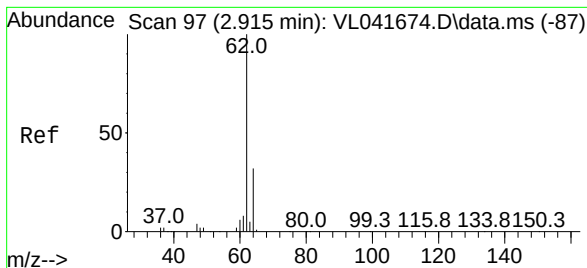
Tgt Ion: 50 Resp: 772568

Ion Ratio Lower Upper

50 100

52 31.0 24.9 37.3

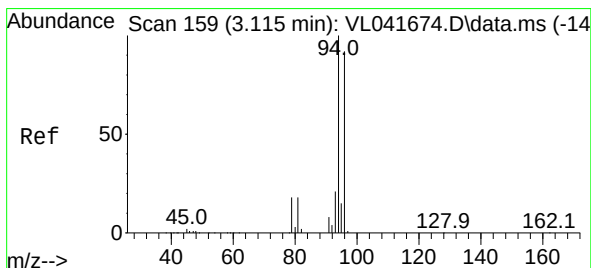
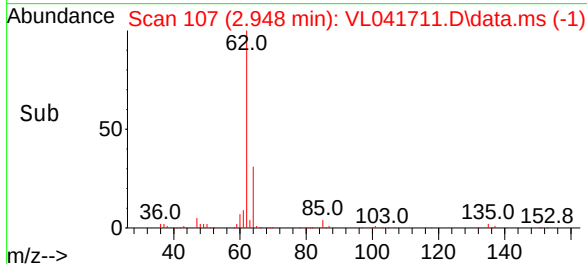
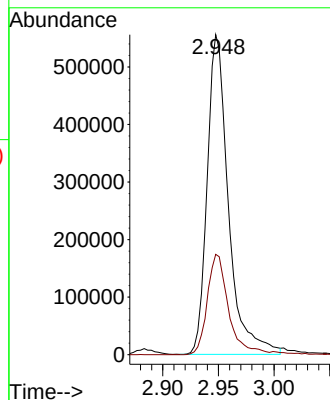
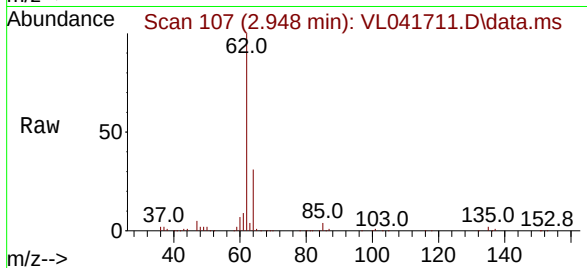




#5  
 Vinyl Chloride  
 Concen: 10.139 ppbv  
 RT: 2.948 min Scan# 107  
 Delta R.T. 0.000 min  
 Lab File: VL041711.D  
 Acq: 21 Nov 2024 8:50

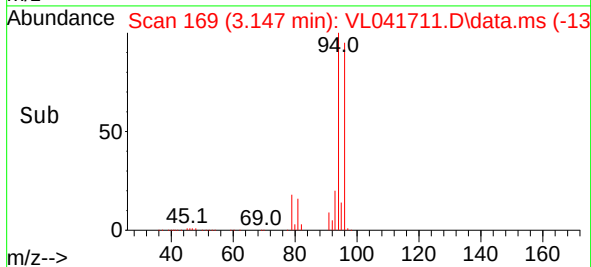
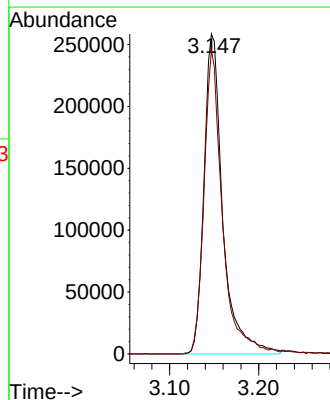
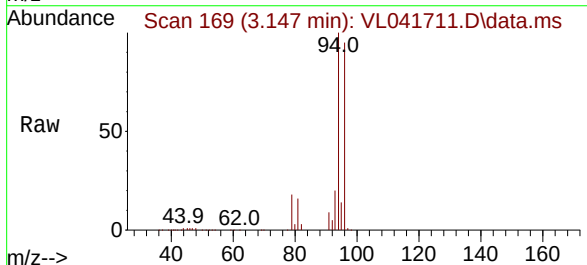
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

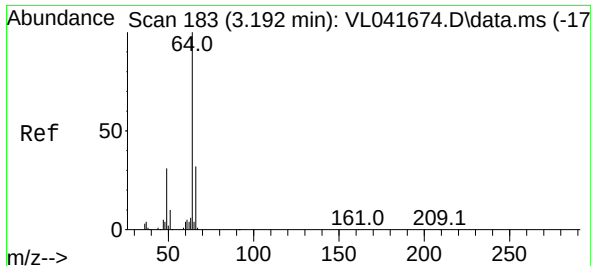
Tgt Ion: 62 Resp: 738827  
 Ion Ratio Lower Upper  
 62 100  
 64 31.4 25.4 38.2



#6  
 Bromomethane  
 Concen: 9.794 ppbv  
 RT: 3.147 min Scan# 169  
 Delta R.T. 0.000 min  
 Lab File: VL041711.D  
 Acq: 21 Nov 2024 8:50

Tgt Ion: 94 Resp: 378603  
 Ion Ratio Lower Upper  
 94 100  
 96 94.9 73.4 110.2

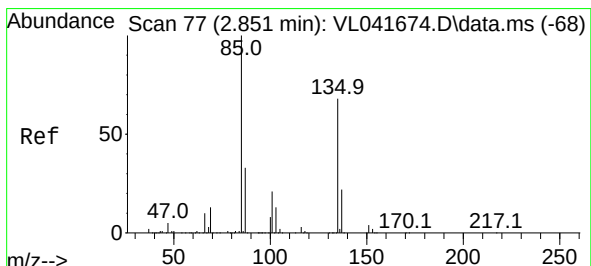
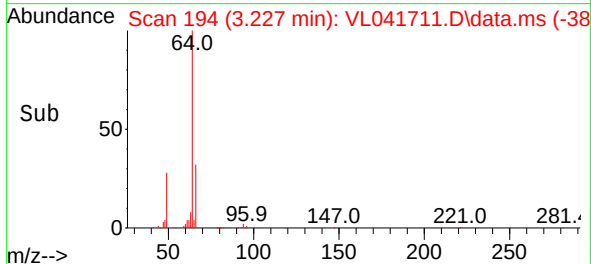
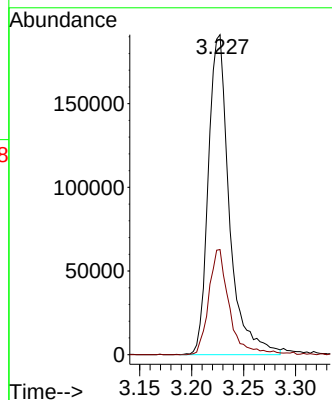
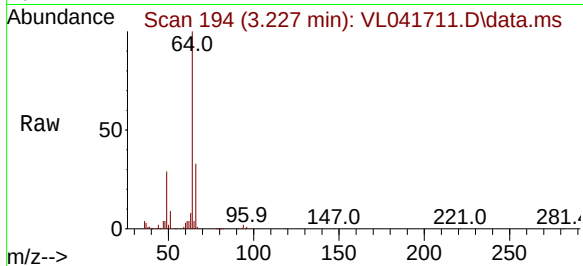




#7  
Chloroethane  
Concen: 10.097 ppbv  
RT: 3.227 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

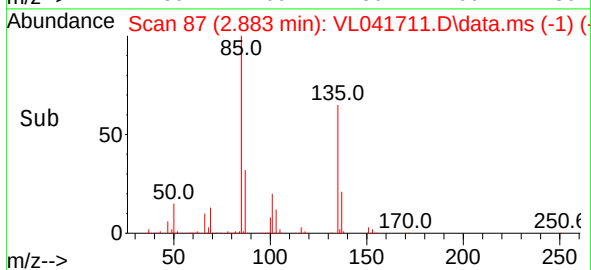
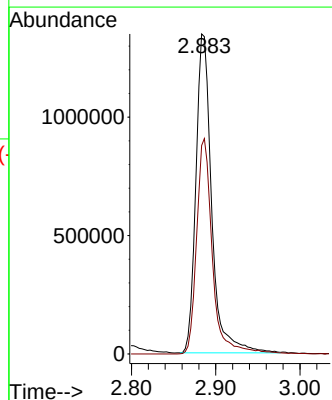
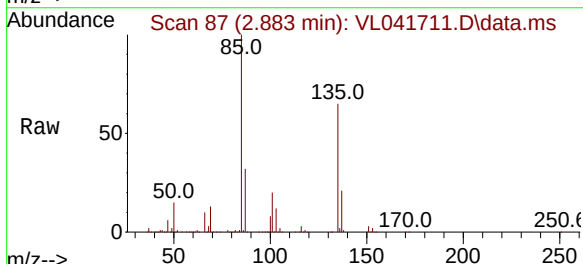
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

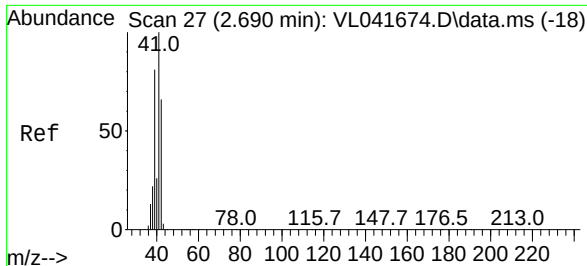
Tgt Ion: 64 Resp: 268516  
Ion Ratio Lower Upper  
64 100  
66 32.9 25.9 38.9



#8  
Dichlorotetrafluoroethane  
Concen: 9.260 ppbv  
RT: 2.883 min Scan# 87  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 85 Resp: 1753531  
Ion Ratio Lower Upper  
85 100  
135 68.0 55.5 83.3





#9

Propene

Concen: 9.427 ppbv

RT: 2.722 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

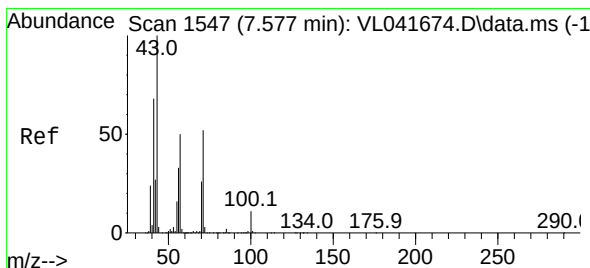
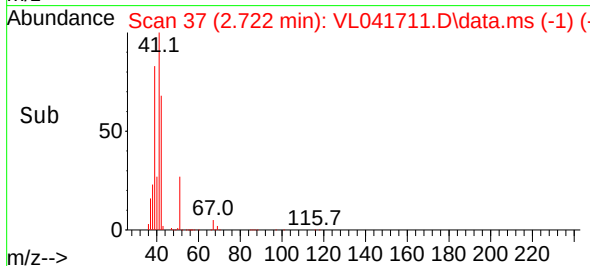
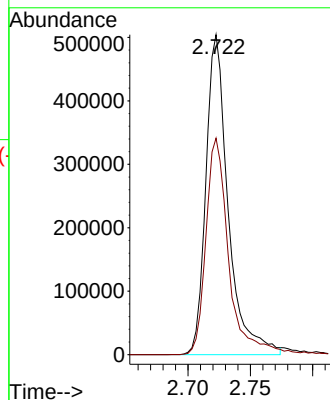
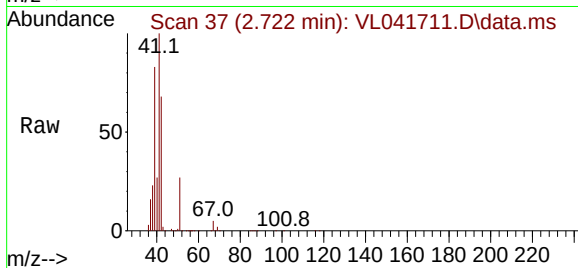
VSTDCCC010

Tgt Ion: 41 Resp: 628191

Ion Ratio Lower Upper

41 100

42 70.1 55.0 82.4



#10

Heptane

Concen: 10.481 ppbv

RT: 7.610 min Scan# 1557

Delta R.T. 0.000 min

Lab File: VL041711.D

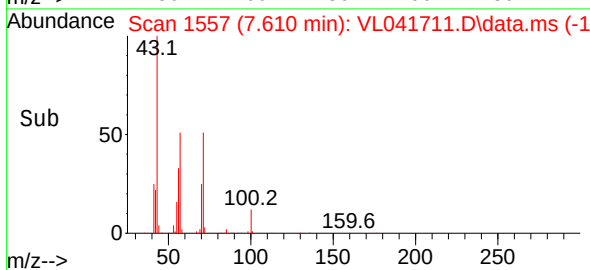
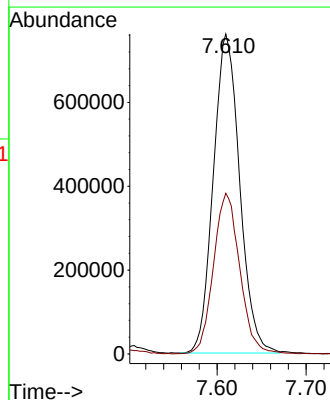
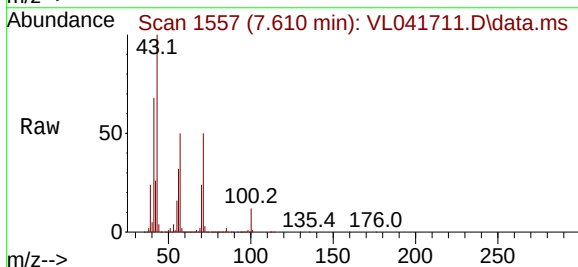
Acq: 21 Nov 2024 8:50

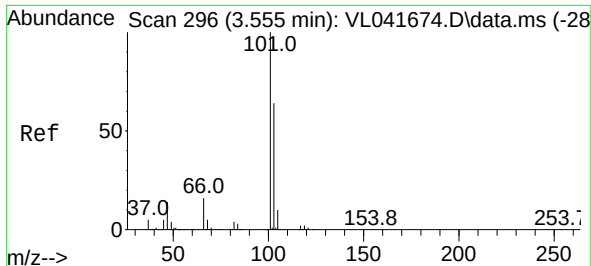
Tgt Ion: 43 Resp: 1564942

Ion Ratio Lower Upper

43 100

57 50.5 40.0 60.0





#11

Trichlorofluoromethane

Concen: 9.446 ppbv

RT: 3.591 min Scan# 307

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

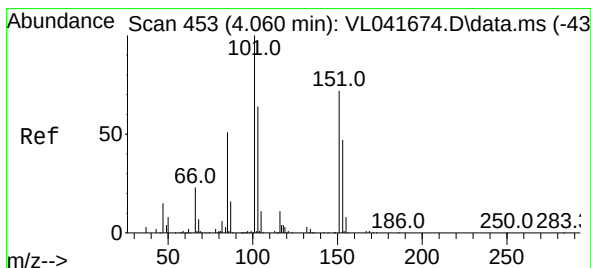
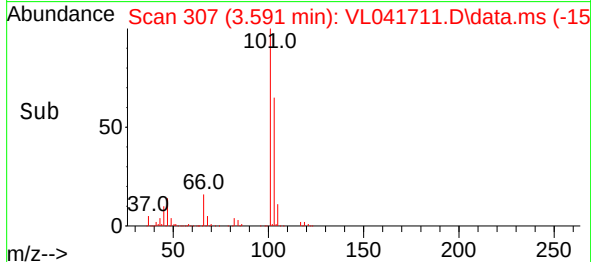
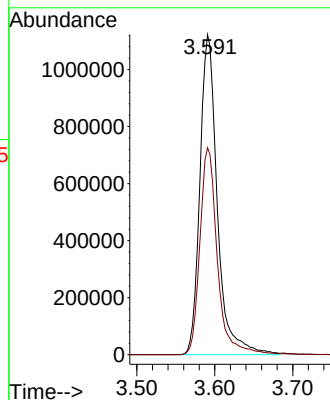
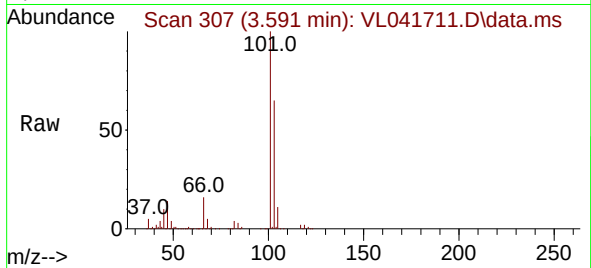
VSTDCCC010

Tgt Ion:101 Resp: 1745375

Ion Ratio Lower Upper

101 100

103 64.6 51.0 76.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.665 ppbv

RT: 4.095 min Scan# 464

Delta R.T. 0.000 min

Lab File: VL041711.D

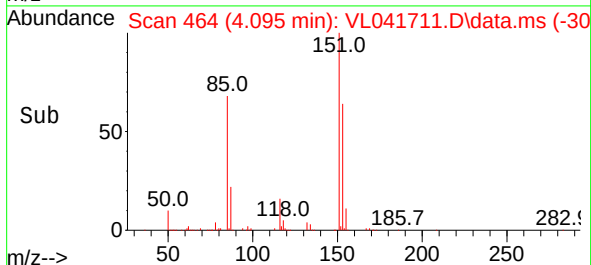
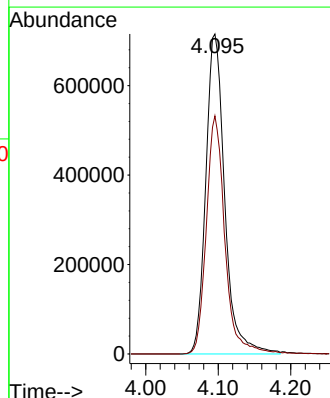
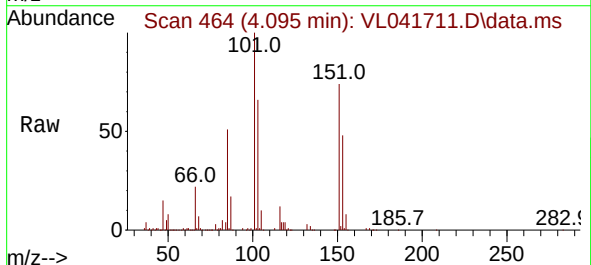
Acq: 21 Nov 2024 8:50

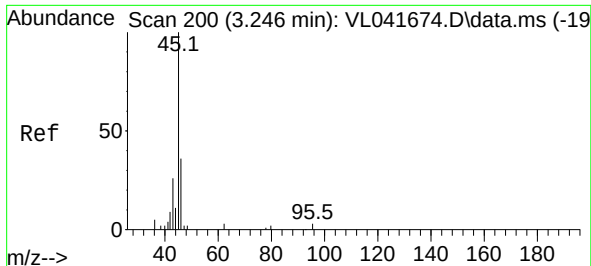
Tgt Ion:101 Resp: 1298147

Ion Ratio Lower Upper

101 100

151 73.1 59.1 88.7





#13

Ethanol

Concen: 4.689 ppbv

RT: 3.275 min Scan# 20

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

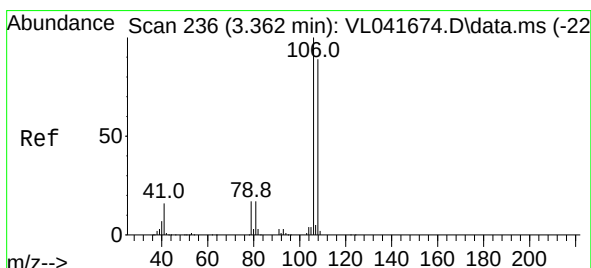
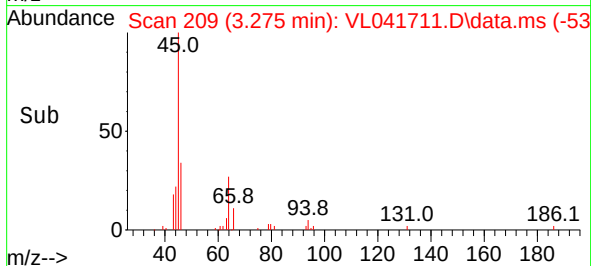
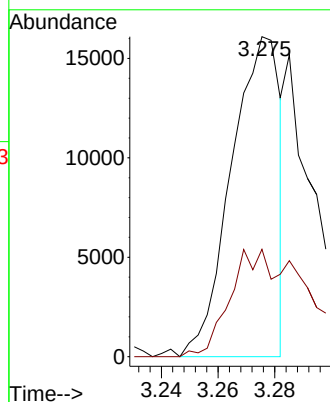
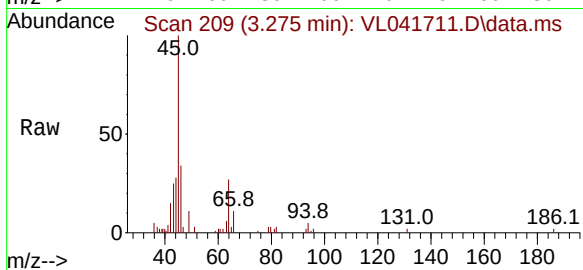
VSTDCCC010

Tgt Ion: 45 Resp: 19131

Ion Ratio Lower Upper

45 100

46 65.3 13.8 55.2#



#14

Bromoethene

Concen: 9.742 ppbv

RT: 3.394 min Scan# 246

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

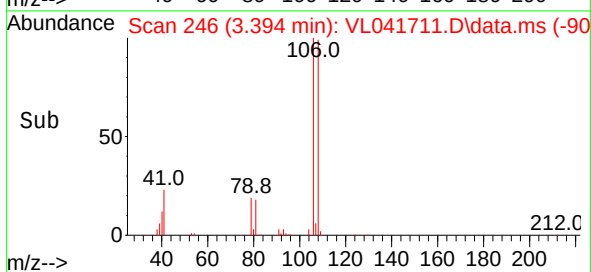
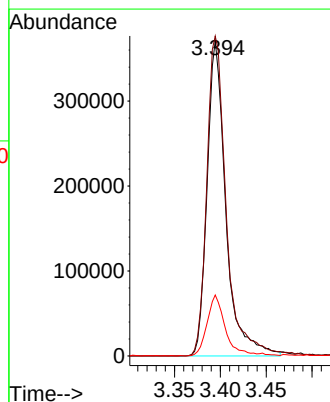
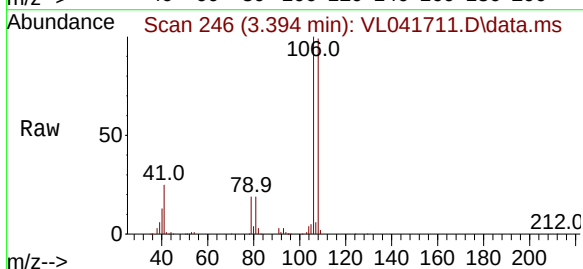
Tgt Ion:108 Resp: 526015

Ion Ratio Lower Upper

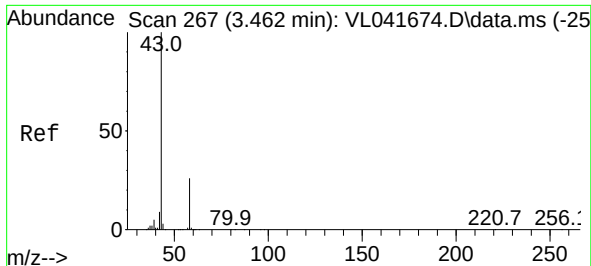
108 100

106 107.1 88.6 133.0

79 19.3 15.6 23.4



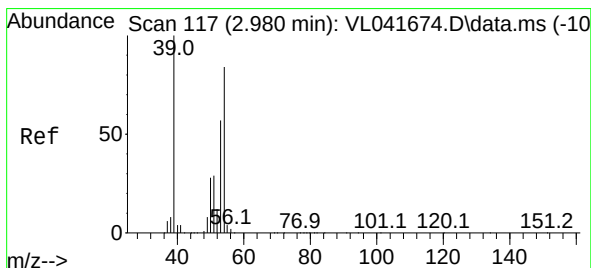
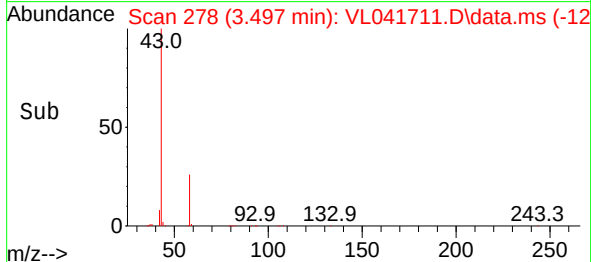
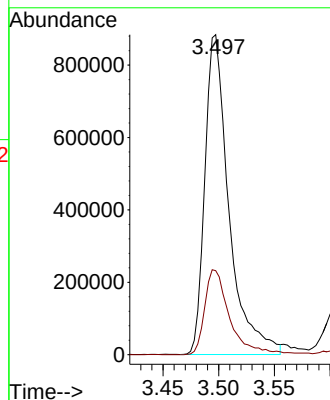
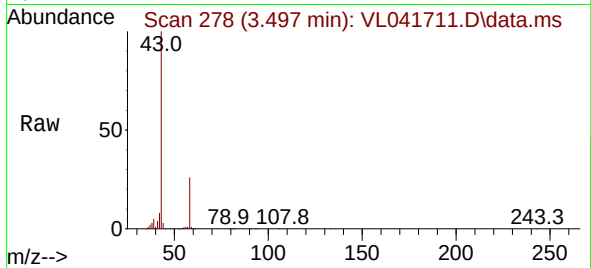




#15  
Acetone  
Concen: 9.235 ppbv  
RT: 3.497 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

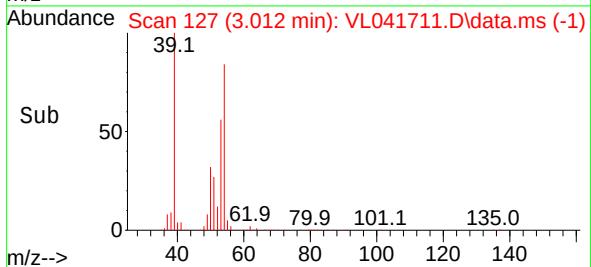
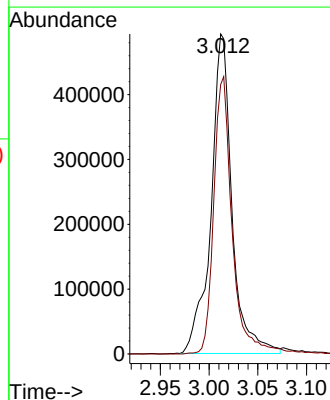
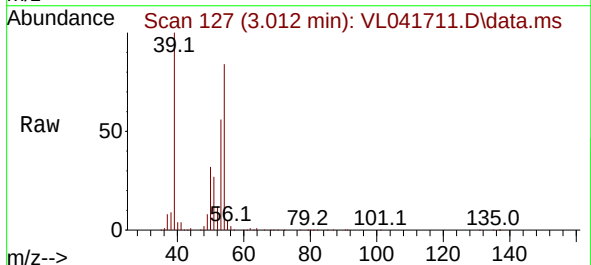
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

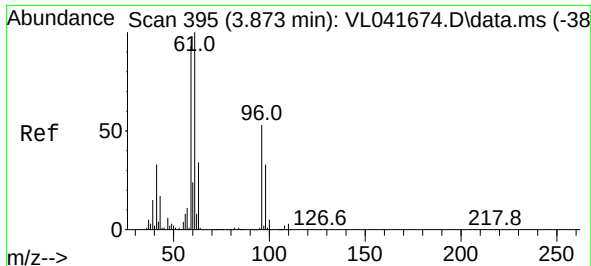
Tgt Ion: 43 Resp: 1333944  
Ion Ratio Lower Upper  
43 100  
58 27.8 21.4 32.0



#16  
1,3-Butadiene  
Concen: 10.153 ppbv  
RT: 3.012 min Scan# 127  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 39 Resp: 739980  
Ion Ratio Lower Upper  
39 100  
54 76.9 61.3 91.9

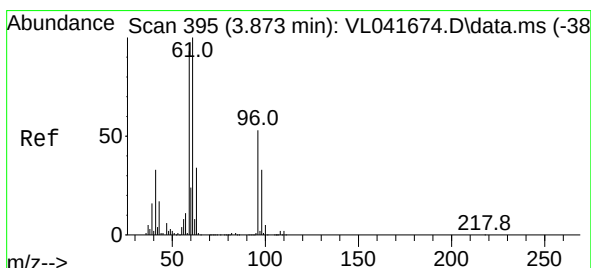
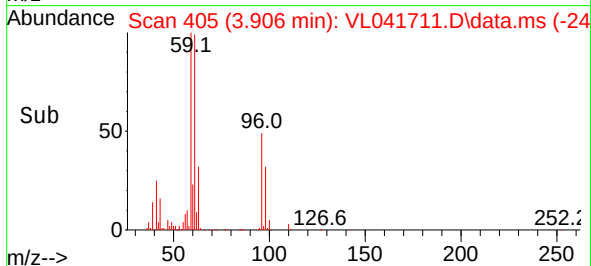
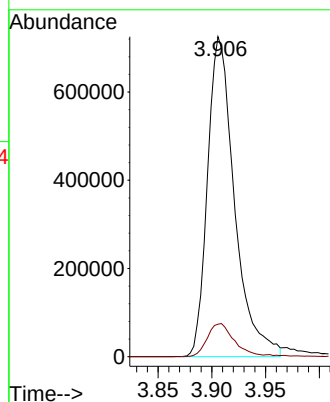
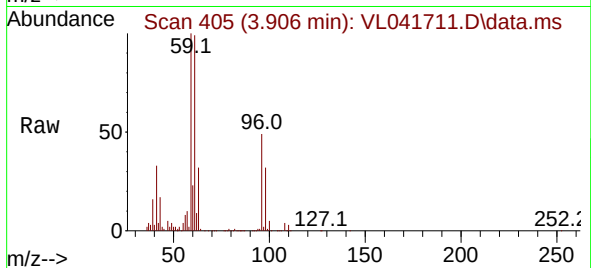




#17  
tert-Butyl alcohol  
Concen: 10.003 ppbv  
RT: 3.906 min Scan# 405  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

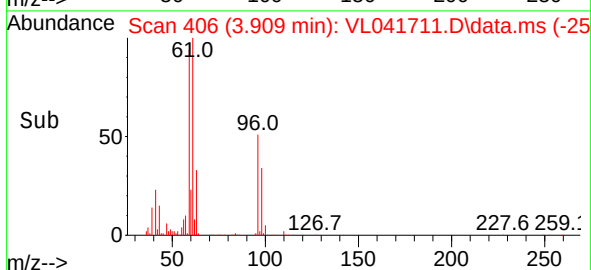
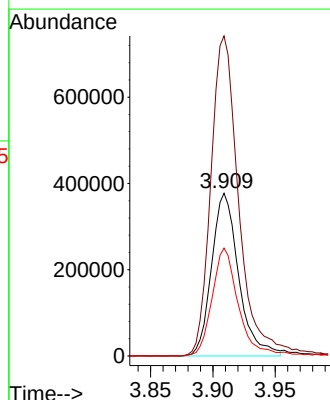
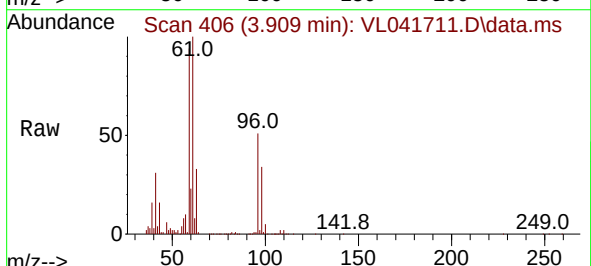
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

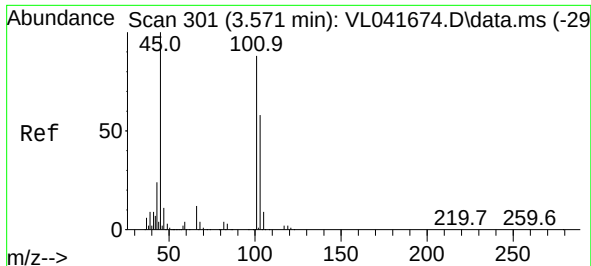
Tgt Ion: 59 Resp: 1267990  
Ion Ratio Lower Upper  
59 100  
57 10.8 8.5 12.7



#18  
1,1-Dichloroethene  
Concen: 9.697 ppbv  
RT: 3.909 min Scan# 406  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 96 Resp: 571205  
Ion Ratio Lower Upper  
96 100  
61 196.7 150.7 226.1  
98 66.3 49.4 74.2





#19

Isopropyl Alcohol

Concen: 9.882 ppbv

RT: 3.603 min Scan# 311

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

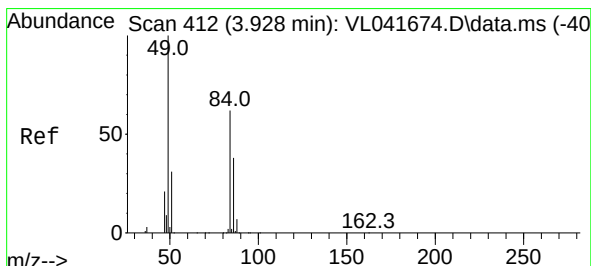
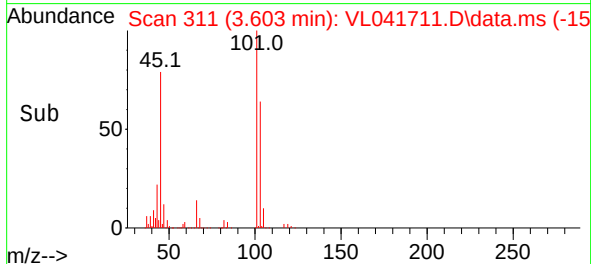
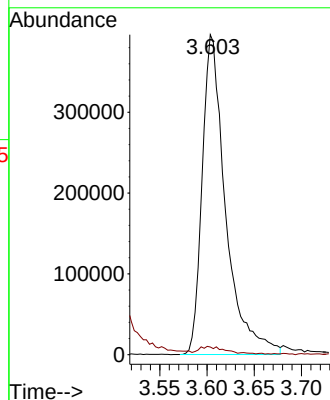
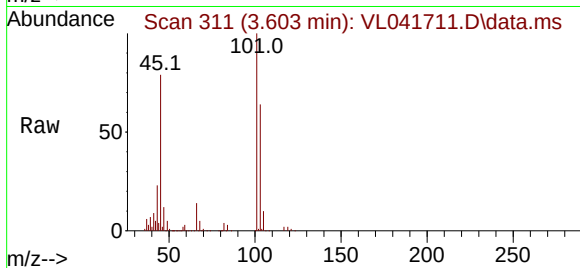
VSTDCCC010

Tgt Ion: 45 Resp: 682305

Ion Ratio Lower Upper

45 100

58 2.7 2.5 3.7



#20

Methylene Chloride

Concen: 9.064 ppbv

RT: 3.960 min Scan# 422

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Tgt Ion: 84 Resp: 481797

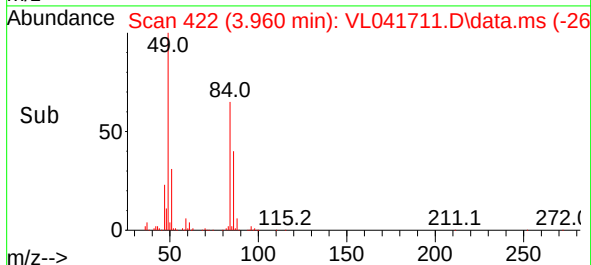
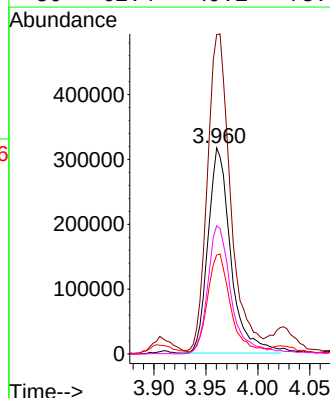
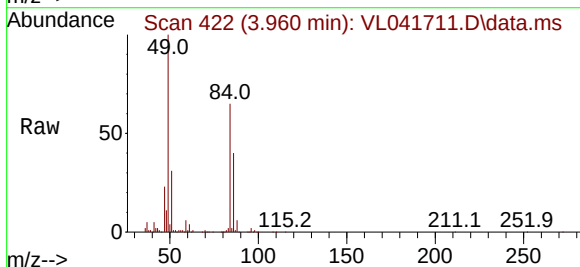
Ion Ratio Lower Upper

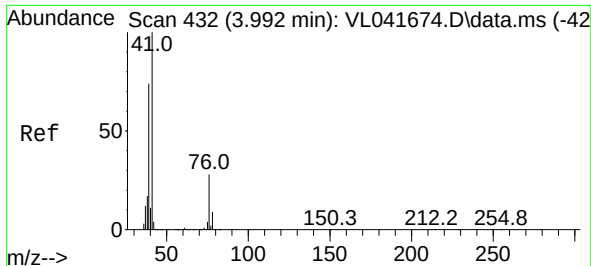
84 100

49 153.1 129.7 194.5

51 46.7 39.8 59.6

86 62.4 49.1 73.7





#21

Allyl Chloride

Concen: 10.138 ppbv

RT: 4.025 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

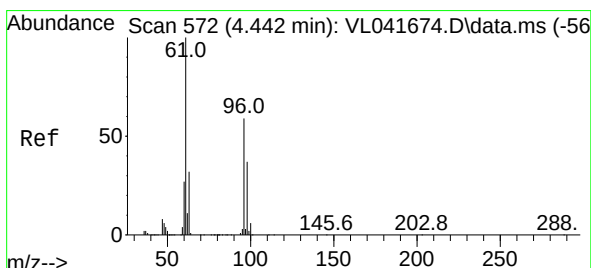
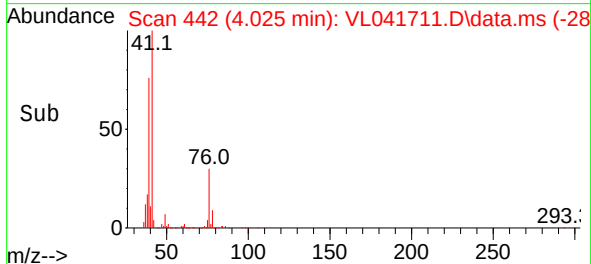
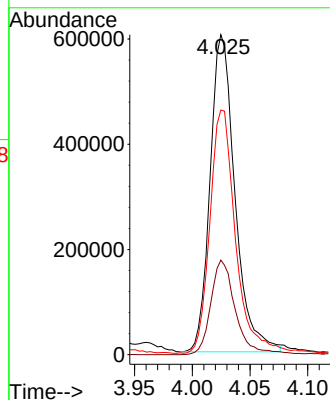
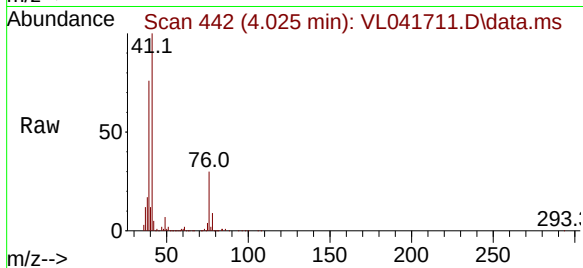
Tgt Ion: 41 Resp: 904964

Ion Ratio Lower Upper

41 100

76 29.8 23.5 35.3

39 80.0 63.0 94.4



#22

trans-1,2-Dichloroethene

Concen: 10.025 ppbv

RT: 4.475 min Scan# 582

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

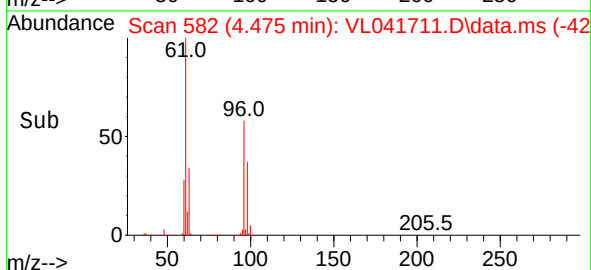
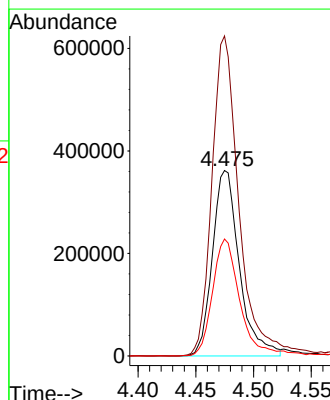
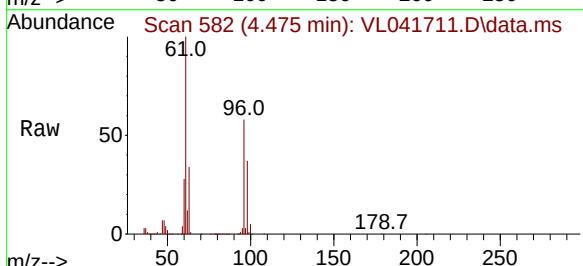
Tgt Ion: 96 Resp: 587155

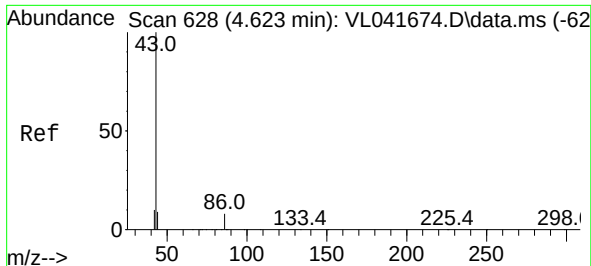
Ion Ratio Lower Upper

96 100

61 172.5 134.5 201.7

98 63.1 49.6 74.4



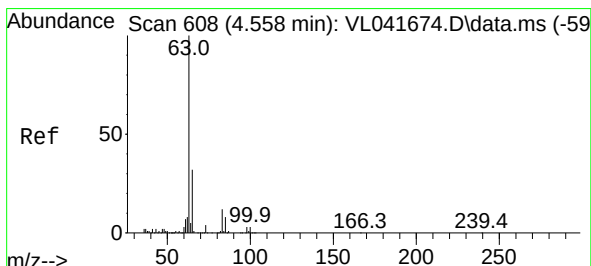
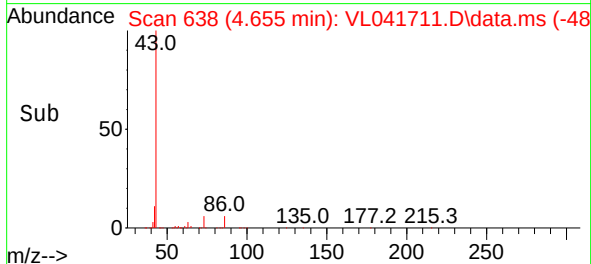
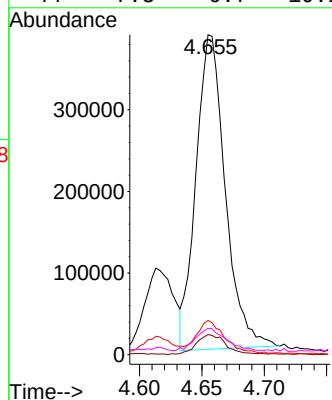
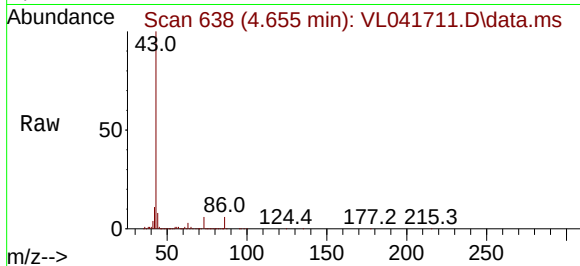


#23  
Vinyl Acetate  
Concen: 9.881 ppbv  
RT: 4.655 min Scan# 619  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 629204

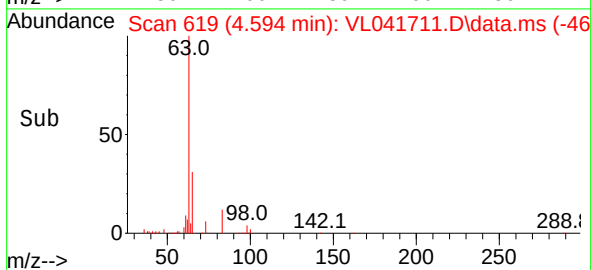
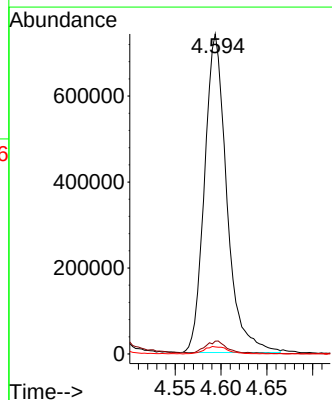
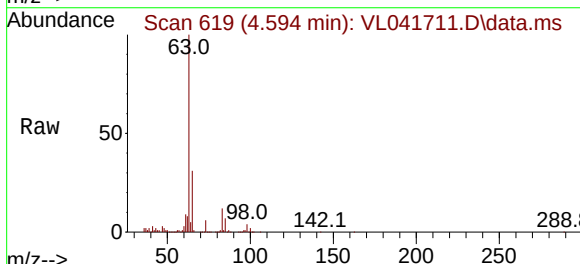
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.3   | 5.3   | 7.9   |
| 42  | 10.4  | 8.5   | 12.7  |
| 44  | 7.3   | 6.7   | 10.1  |

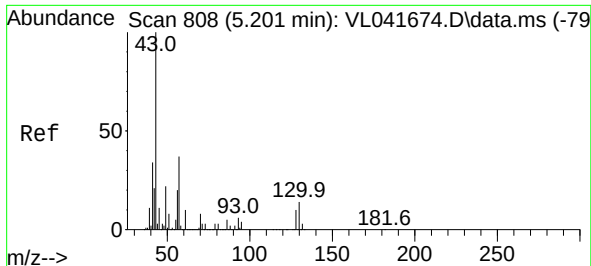


#24  
1,1-Dichloroethane  
Concen: 9.585 ppbv  
RT: 4.594 min Scan# 619  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 63 Resp: 1253068

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 3.8   | 1.8   | 5.4   |
| 100 | 2.1   | 1.4   | 4.2   |



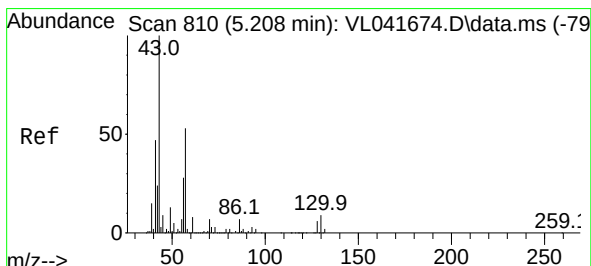
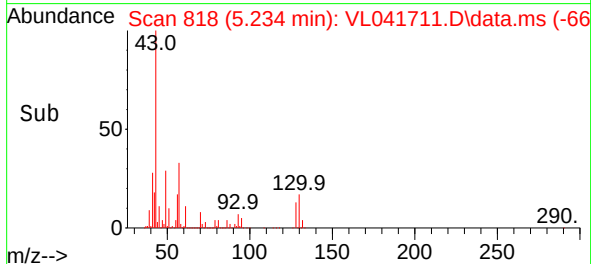
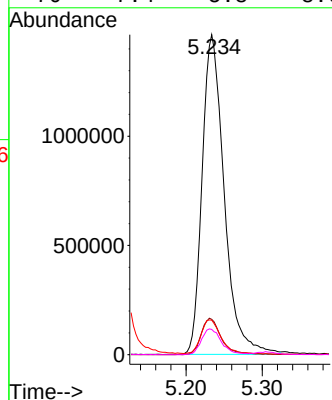
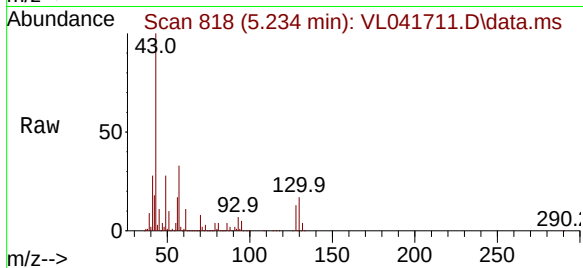


#25  
Ethyl Acetate  
Concen: 9.874 ppbv  
RT: 5.234 min Scan# 811  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 2952376

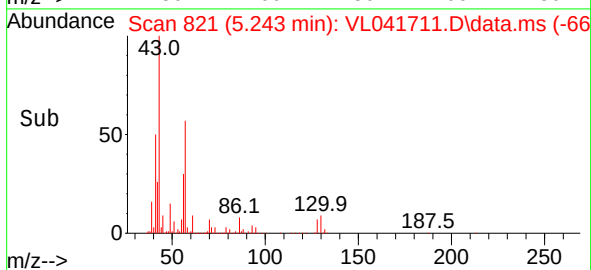
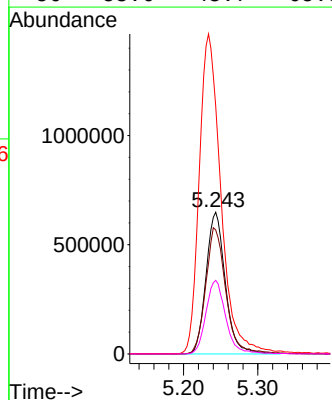
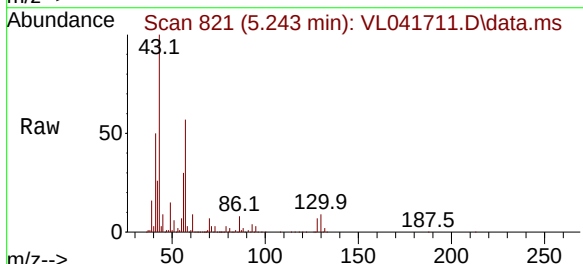
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.6  | 8.6   | 13.0  |
| 61  | 10.5  | 8.4   | 12.6  |
| 70  | 7.4   | 5.8   | 8.6   |

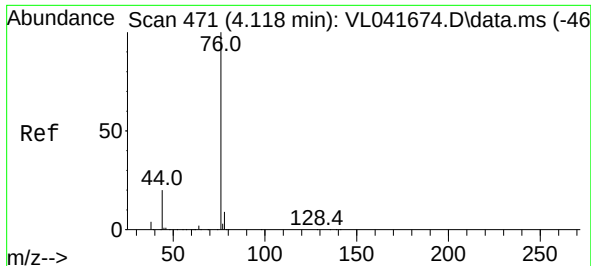


#26  
Hexane  
Concen: 10.181 ppbv  
RT: 5.243 min Scan# 821  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 57 Resp: 1169502

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 93.0  | 76.1  | 114.1 |
| 43  | 255.2 | 207.0 | 310.6 |
| 56  | 53.6  | 43.7  | 65.5  |

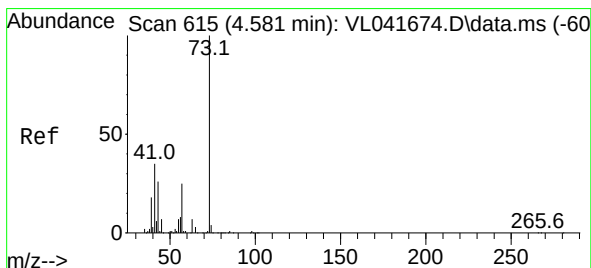
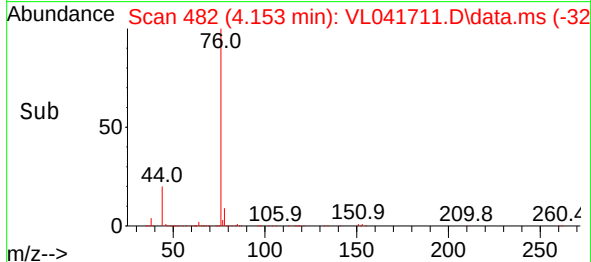
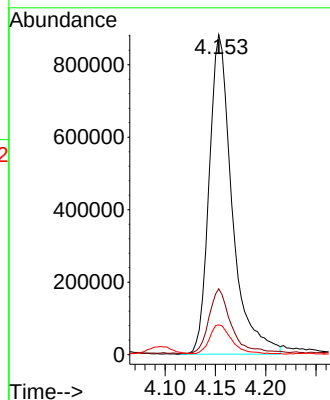
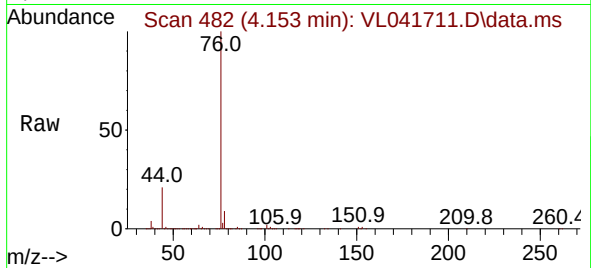




#27  
Carbon Disulfide  
Concen: 10.871 ppbv  
RT: 4.153 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

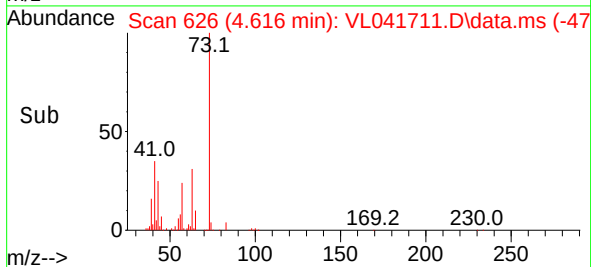
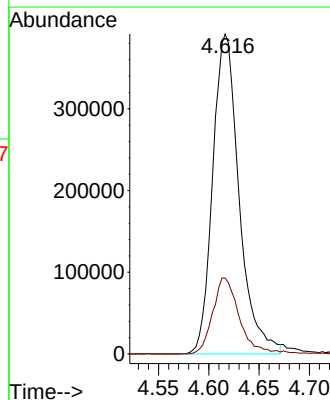
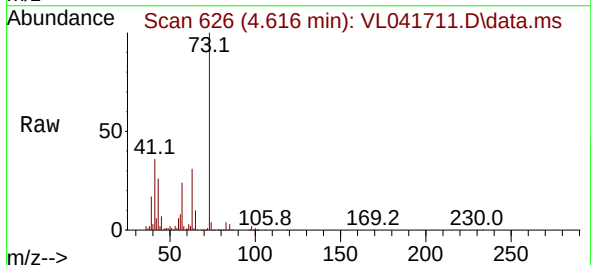
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

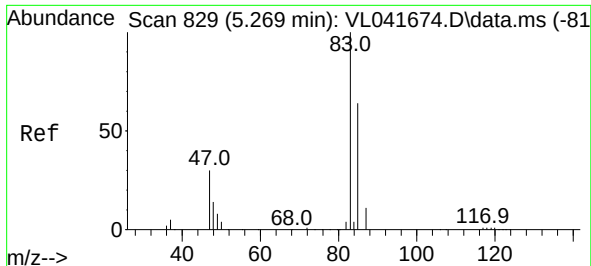
Tgt Ion: 76 Resp: 1403031  
Ion Ratio Lower Upper  
76 100  
44 20.6 15.8 23.8  
78 9.6 7.5 11.3



#28  
Methyl tert-Butyl Ether  
Concen: 9.668 ppbv  
RT: 4.616 min Scan# 626  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 73 Resp: 715210  
Ion Ratio Lower Upper  
73 100  
57 24.4 19.6 29.4





#29

Chloroform

Concen: 9.492 ppbv

RT: 5.308 min Scan# 84

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

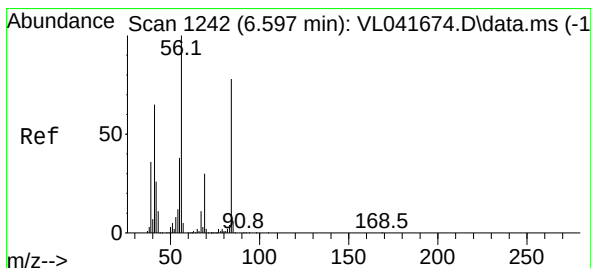
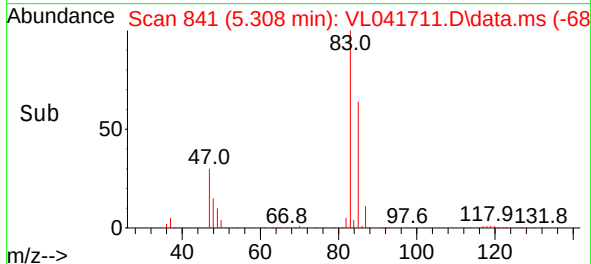
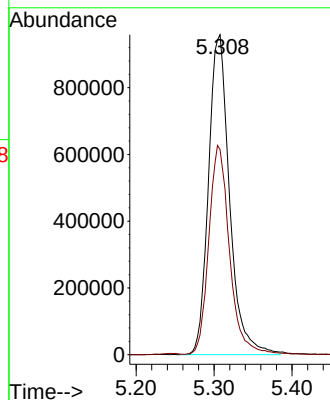
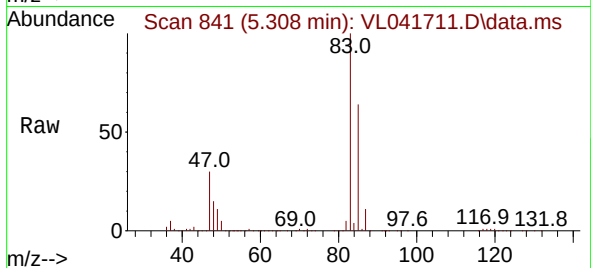
VSTDCCC010

Tgt Ion: 83 Resp: 1799780

Ion Ratio Lower Upper

83 100

85 63.9 51.1 76.7



#30

Cyclohexane

Concen: 10.122 ppbv

RT: 6.632 min Scan# 1253

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

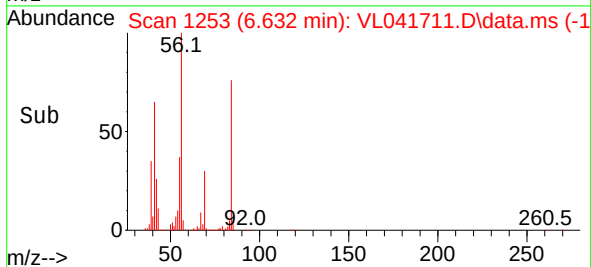
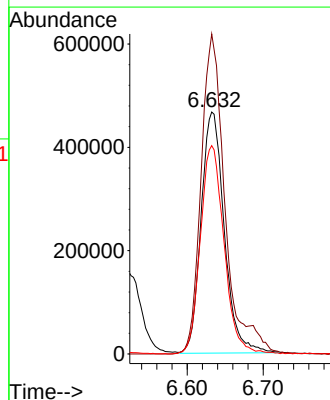
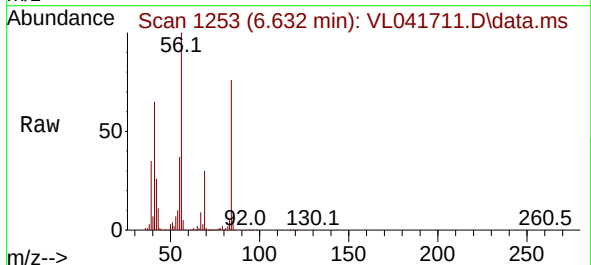
Tgt Ion: 84 Resp: 990103

Ion Ratio Lower Upper

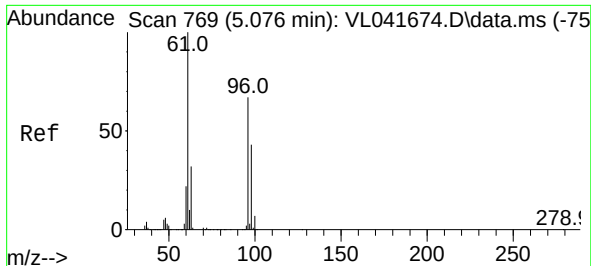
84 100

56 137.5 110.8 166.2

41 88.2 70.0 105.0







#31

cis-1,2-Dichloroethene

Concen: 10.202 ppbv

RT: 5.108 min Scan# 71

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

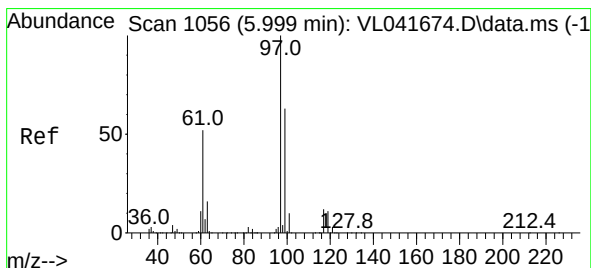
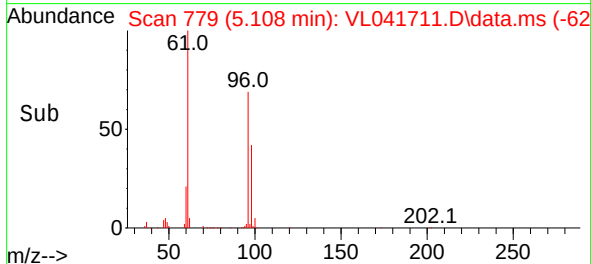
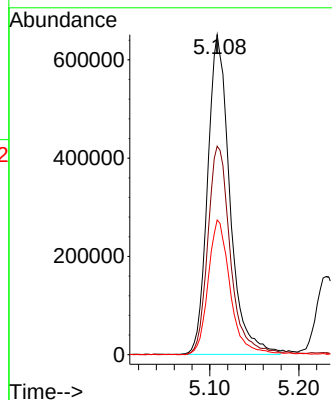
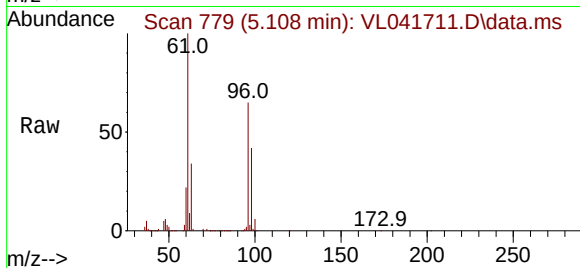
Tgt Ion: 61 Resp: 1127435

Ion Ratio Lower Upper

61 100

96 65.2 53.4 80.2

98 42.2 34.0 51.0



#32

1,1,1-Trichloroethane

Concen: 10.184 ppbv

RT: 6.034 min Scan# 1067

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

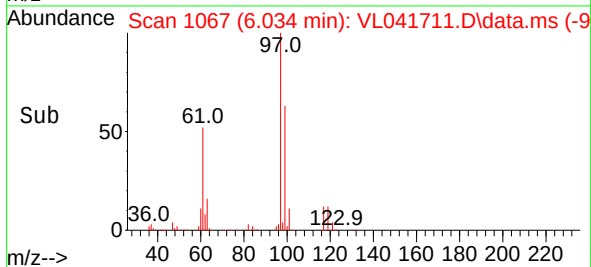
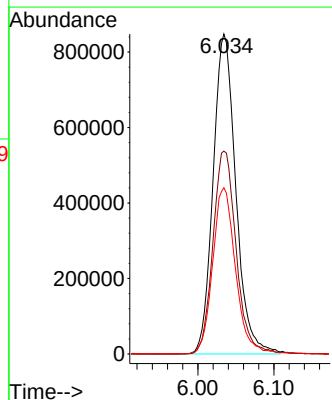
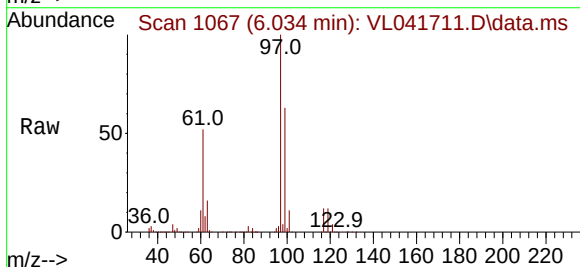
Tgt Ion: 97 Resp: 1761688

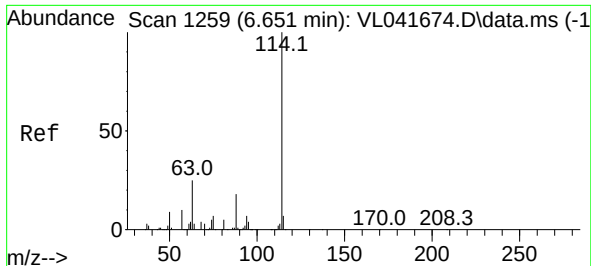
Ion Ratio Lower Upper

97 100

99 64.9 51.4 77.2

61 52.5 41.7 62.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.684 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

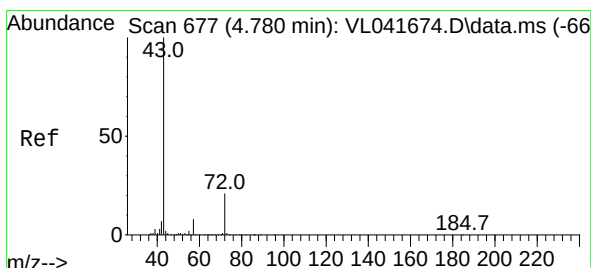
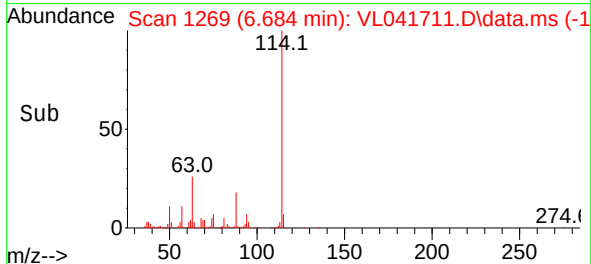
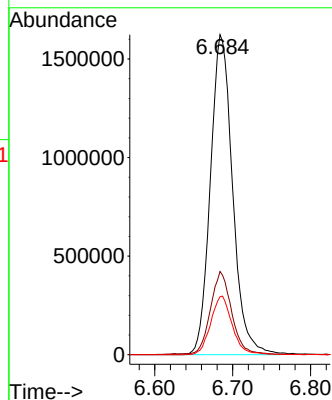
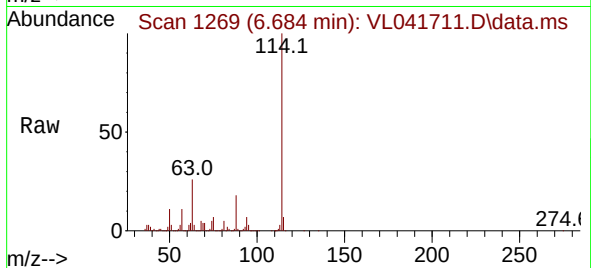
Tgt Ion:114 Resp: 3217567

Ion Ratio Lower Upper

114 100

63 25.0 20.3 30.5

88 17.8 14.2 21.4



#34

2-Butanone

Concen: 9.046 ppbv

RT: 4.816 min Scan# 688

Delta R.T. 0.000 min

Lab File: VL041711.D

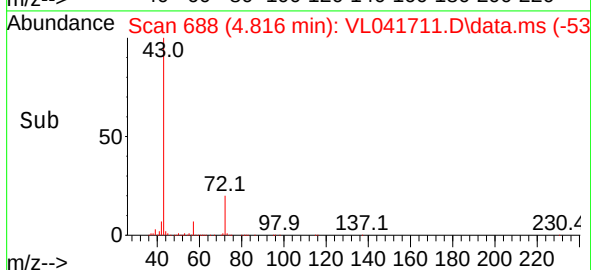
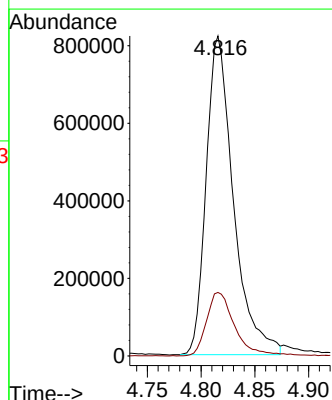
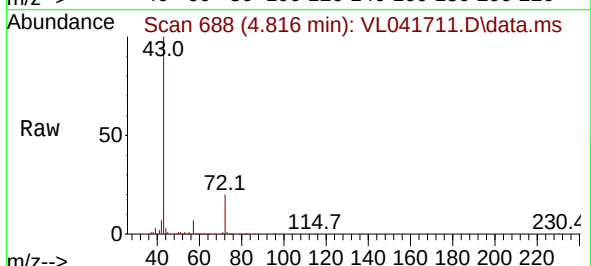
Acq: 21 Nov 2024 8:50

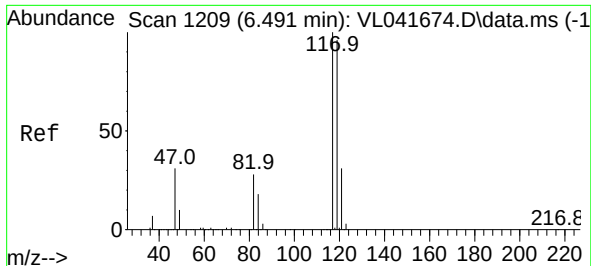
Tgt Ion: 43 Resp: 1449252

Ion Ratio Lower Upper

43 100

72 21.1 17.4 26.0



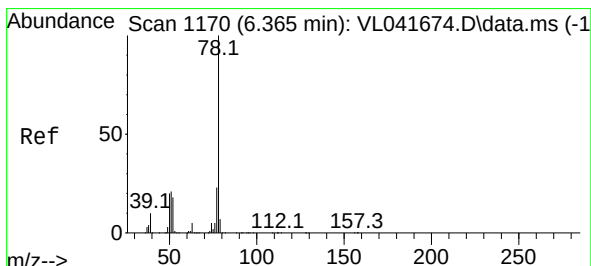
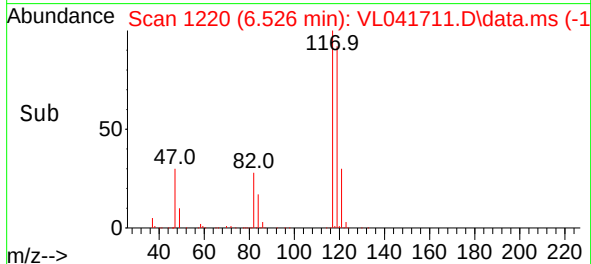
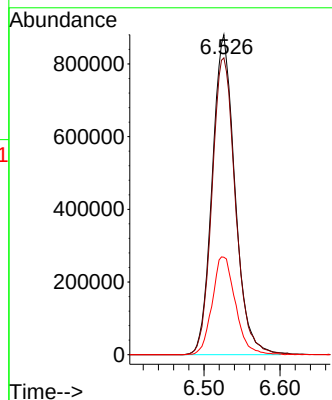
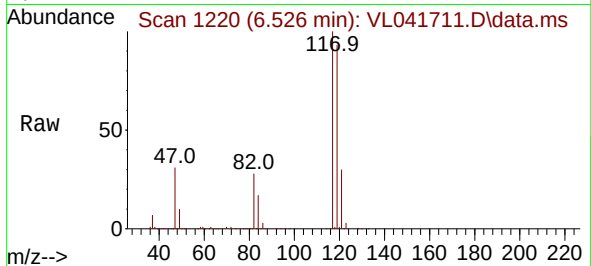


#35  
Carbon Tetrachloride  
Concen: 10.764 ppbv  
RT: 6.526 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

Tgt Ion:117 Resp: 1827244

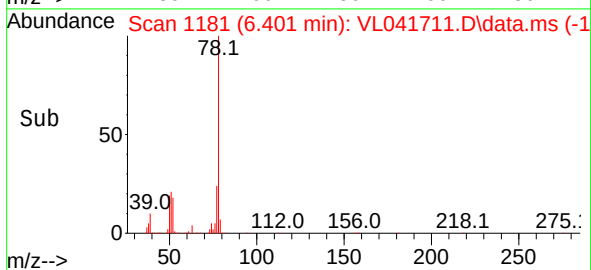
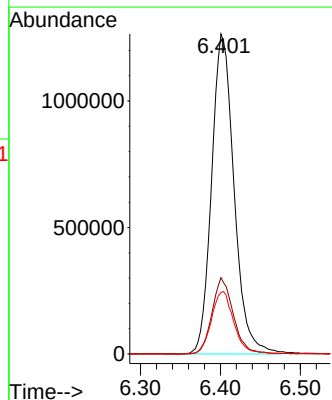
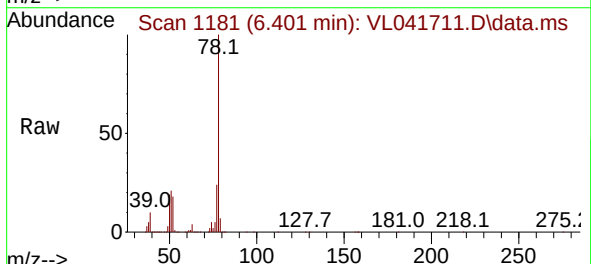
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 92.8  | 77.2  | 115.8 |
| 121 | 30.5  | 25.0  | 37.4  |

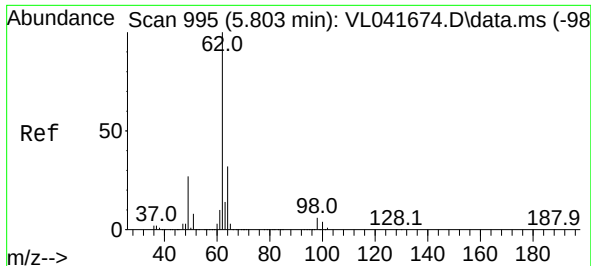


#36  
Benzene  
Concen: 10.333 ppbv  
RT: 6.401 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 78 Resp: 2463354

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 23.8  | 18.5  | 27.7  |
| 50  | 19.2  | 15.6  | 23.4  |





#37

1,2-Dichloroethane

Concen: 10.120 ppbv

RT: 5.838 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

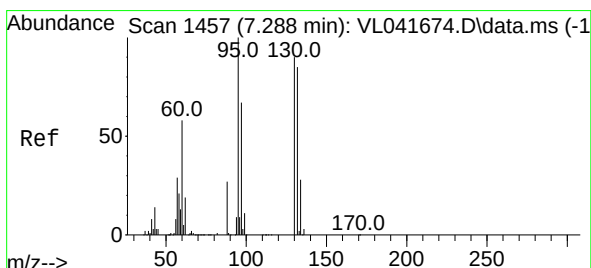
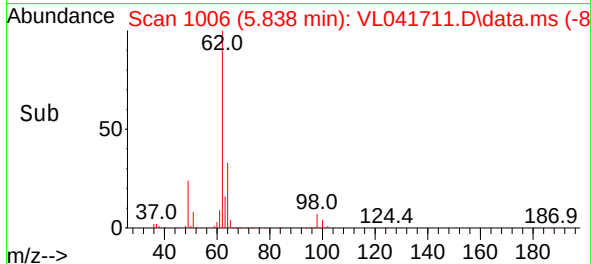
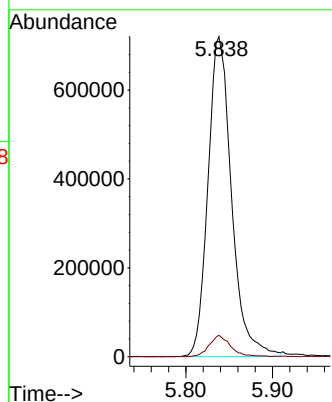
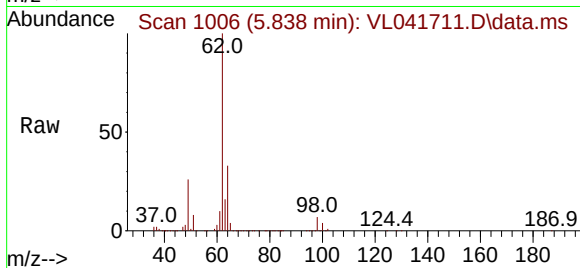
VSTDCCC010

Tgt Ion: 62 Resp: 1361156

Ion Ratio Lower Upper

62 100

98 6.3 5.2 7.8



#38

Trichloroethene

Concen: 10.934 ppbv

RT: 7.327 min Scan# 1469

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Tgt Ion:130 Resp: 1001170

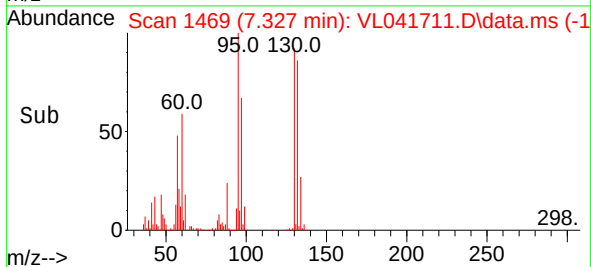
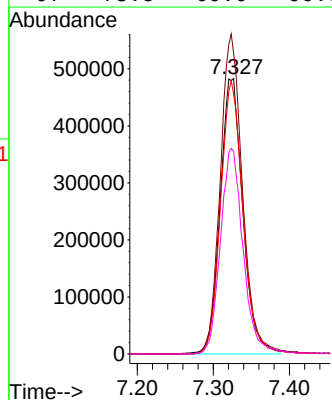
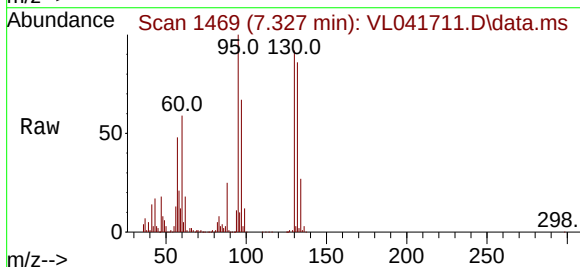
Ion Ratio Lower Upper

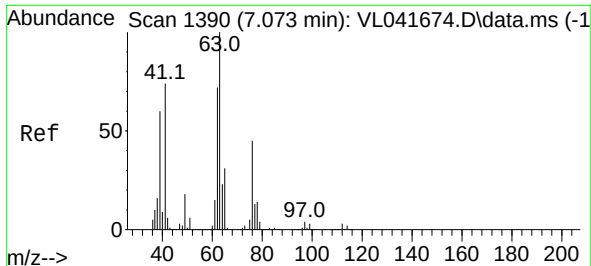
130 100

95 109.2 89.1 133.7

132 94.2 75.7 113.5

97 73.5 60.0 90.0





#39

1,2-Dichloropropane

Concen: 10.045 ppbv

RT: 7.108 min Scan# 1401

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

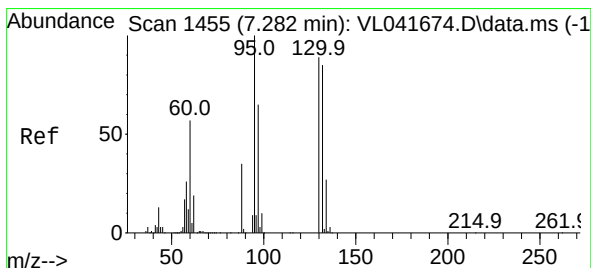
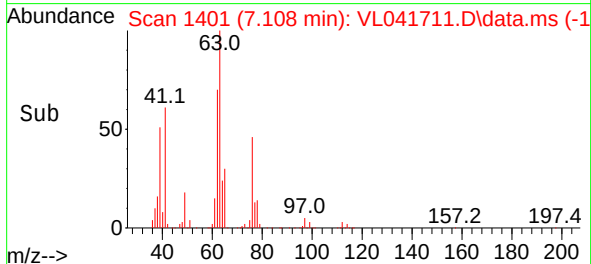
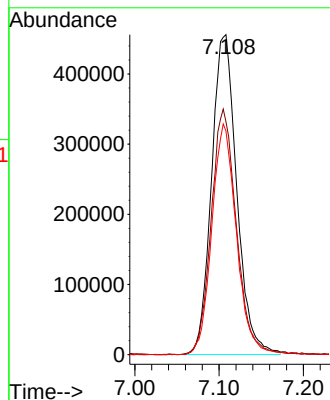
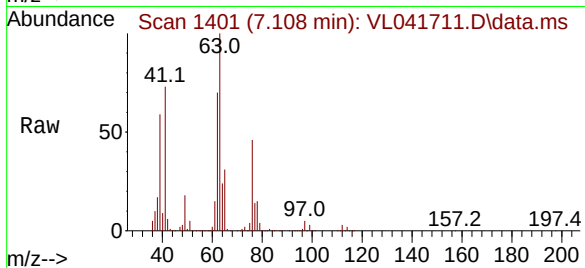
Tgt Ion: 63 Resp: 946394

Ion Ratio Lower Upper

63 100

41 72.8 59.1 88.7

62 69.9 57.7 86.5



#40

1,4-Dioxane

Concen: 10.936 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Tgt Ion: 88 Resp: 369652

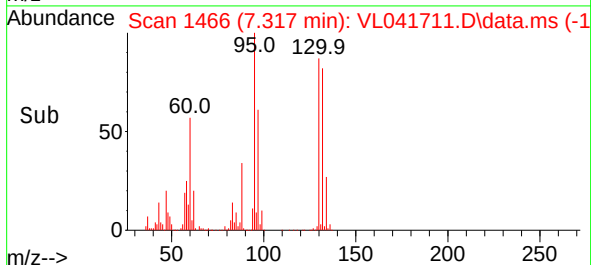
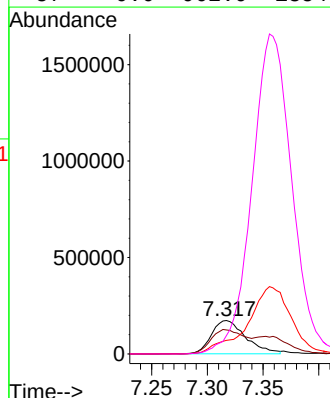
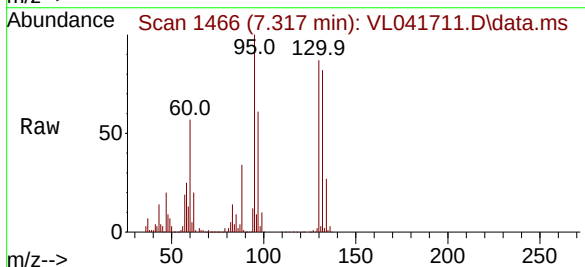
Ion Ratio Lower Upper

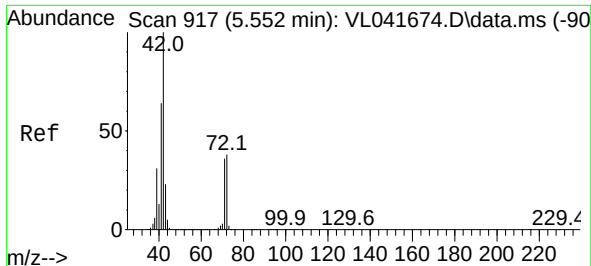
88 100

58 125.9 101.4 152.2

43 0.0 208.0 312.0#

57 0.0 902.9 1354.3#





#41

Tetrahydrofuran

Concen: 11.055 ppbv

RT: 5.587 min Scan# 91

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

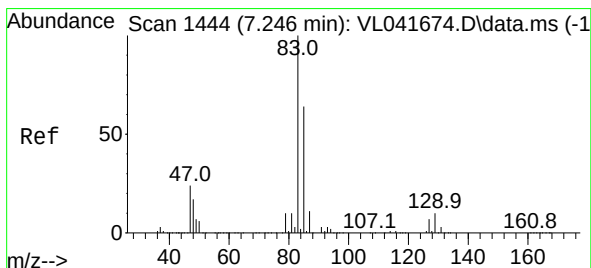
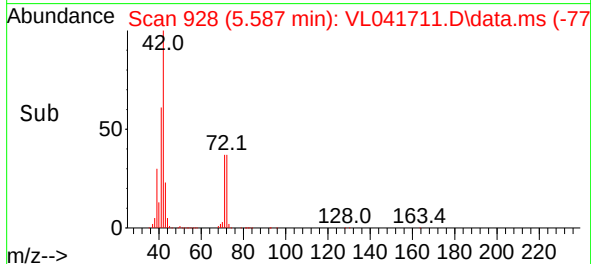
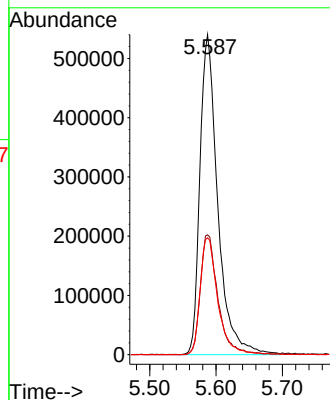
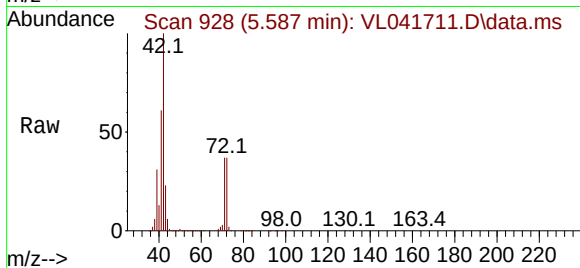
Tgt Ion: 42 Resp: 1011478

Ion Ratio Lower Upper

42 100

72 37.2 29.8 44.6

71 36.4 29.4 44.2



#42

Bromodichloromethane

Concen: 10.438 ppbv

RT: 7.282 min Scan# 1455

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

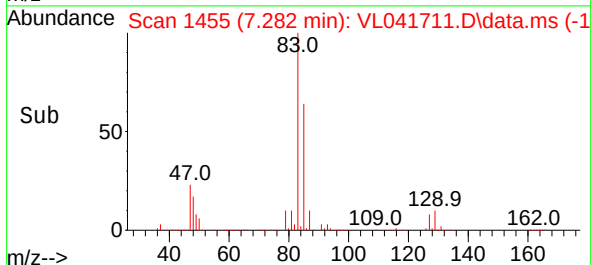
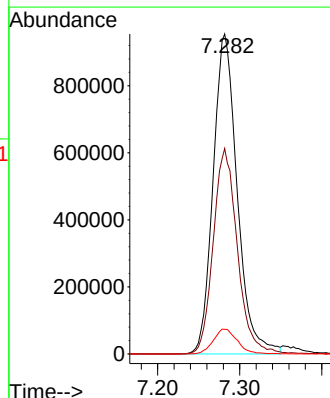
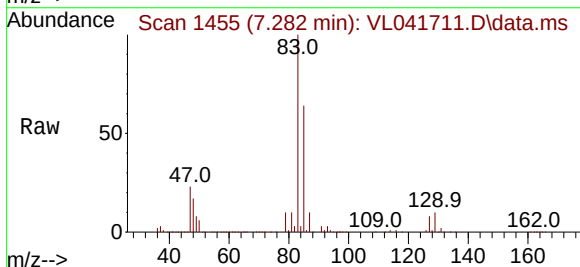
Tgt Ion: 83 Resp: 1950791

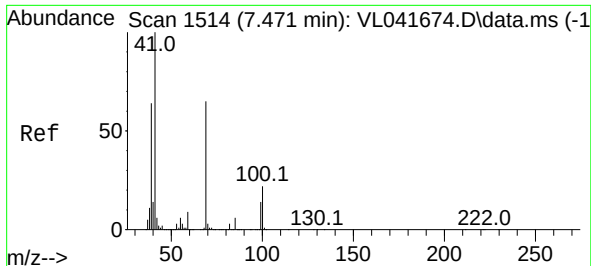
Ion Ratio Lower Upper

83 100

85 64.2 51.2 76.8

127 7.7 6.0 9.0





#43

Methyl Methacrylate

Concen: 11.476 ppbv

RT: 7.507 min Scan# 1478

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_1

ClientSampleId :

VSTDCCC010

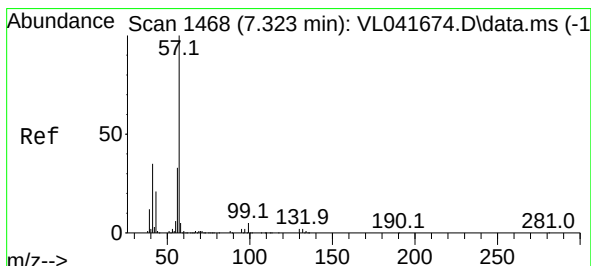
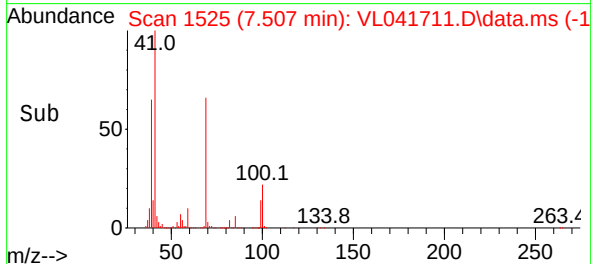
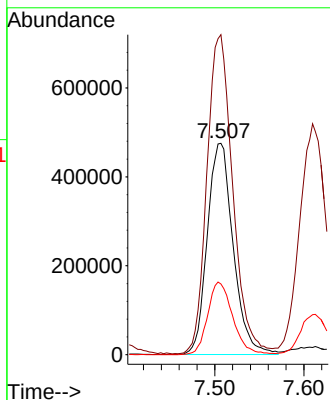
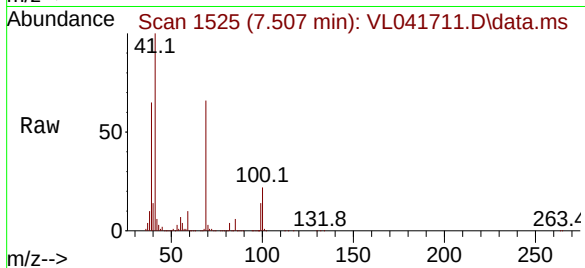
Tgt Ion: 69 Resp: 960580

Ion Ratio Lower Upper

69 100

41 150.9 119.8 179.6

100 33.3 27.3 40.9



#44

2,2,4-Trimethylpentane

Concen: 10.251 ppbv

RT: 7.356 min Scan# 1478

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

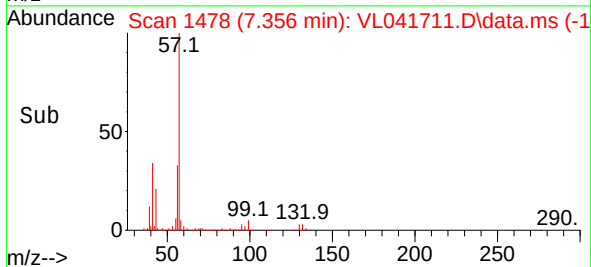
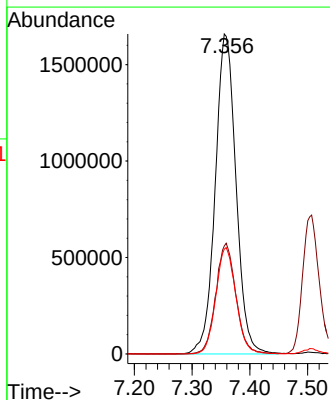
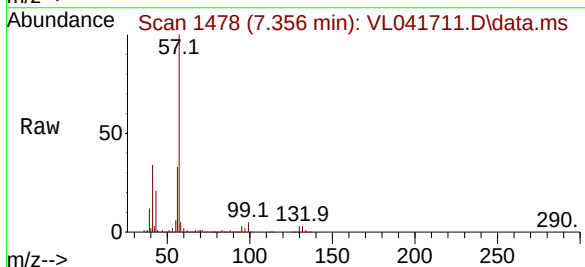
Tgt Ion: 57 Resp: 4139526

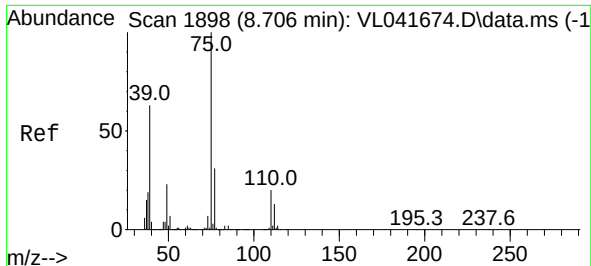
Ion Ratio Lower Upper

57 100

41 33.7 27.0 40.6

56 32.2 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 12.329 ppbv

RT: 8.741 min Scan# 1909

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

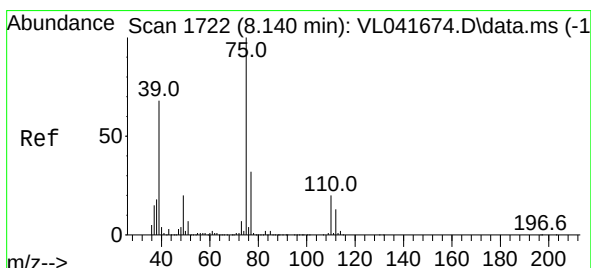
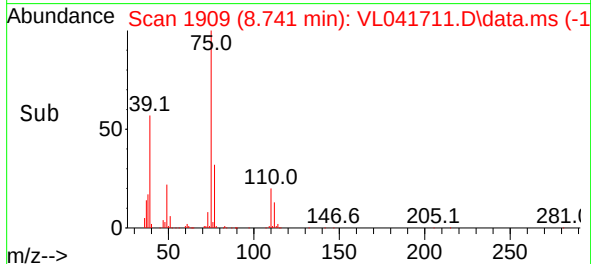
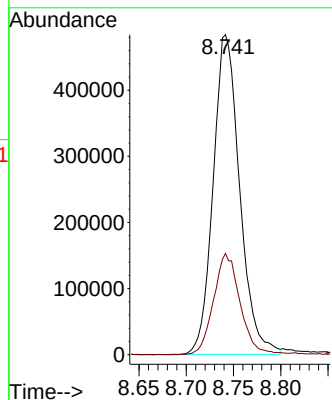
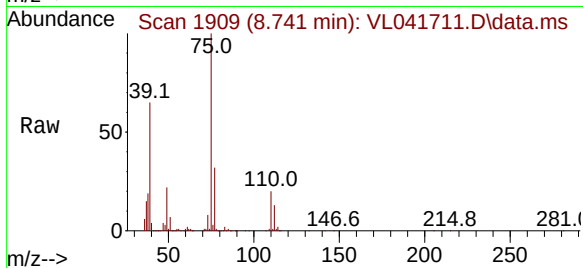
VSTDCCC010

Tgt Ion: 75 Resp: 943007

Ion Ratio Lower Upper

75 100

77 31.7 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 11.647 ppbv

RT: 8.172 min Scan# 1732

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

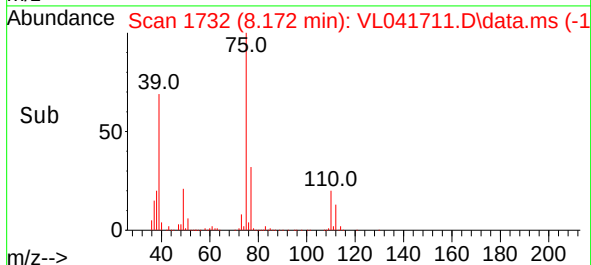
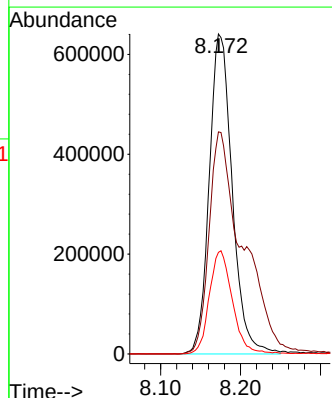
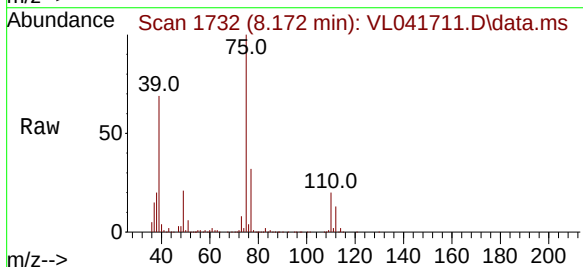
Tgt Ion: 75 Resp: 1279587

Ion Ratio Lower Upper

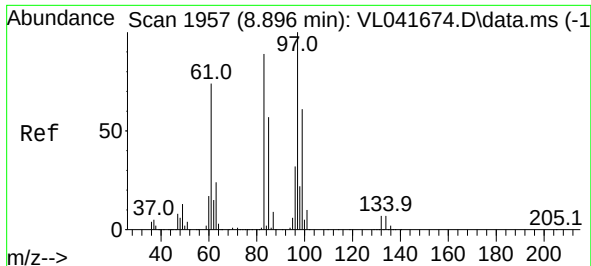
75 100

39 69.4 54.1 81.1

77 31.8 25.3 37.9







#47

1,1,2-Trichloroethane

Concen: 9.898 ppbv

RT: 8.931 min Scan# 1957

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 1009245

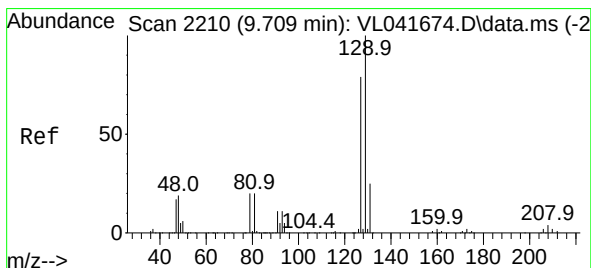
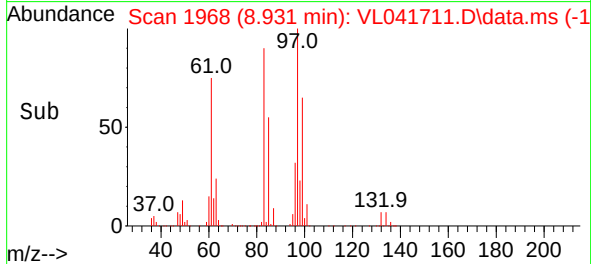
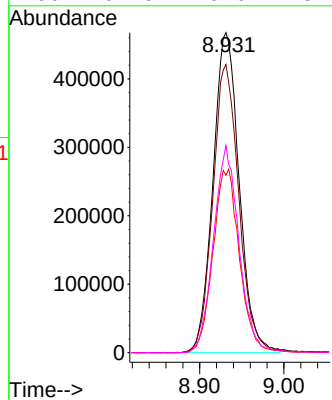
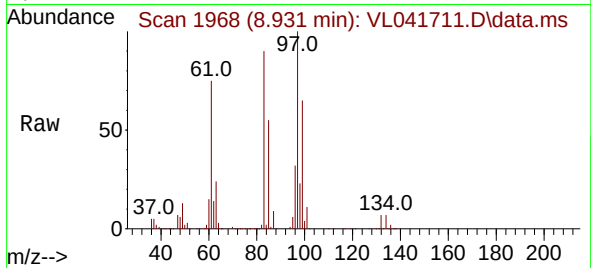
Ion Ratio Lower Upper

97 100

83 90.0 71.0 106.6

85 55.5 45.4 68.2

99 64.6 49.0 73.6



#48

Dibromochloromethane

Concen: 10.722 ppbv

RT: 9.741 min Scan# 2220

Delta R.T. 0.000 min

Lab File: VL041711.D

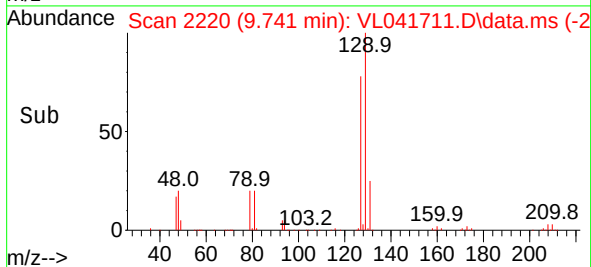
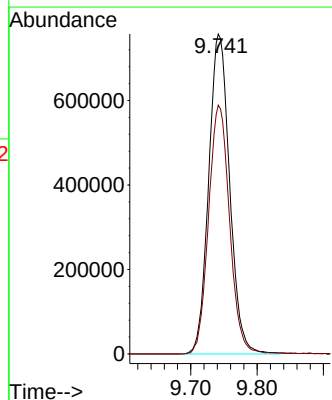
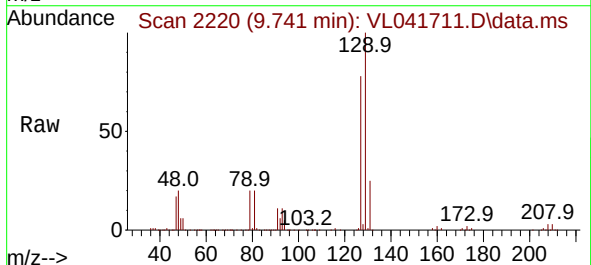
Acq: 21 Nov 2024 8:50

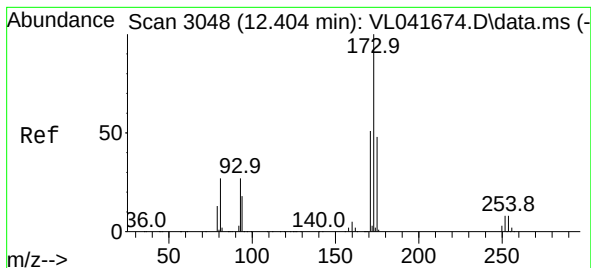
Tgt Ion: 129 Resp: 1661895

Ion Ratio Lower Upper

129 100

127 78.3 39.1 117.2





#49

Bromoform

Concen: 11.079 ppbv

RT: 12.439 min Scan# 3048

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_1

ClientSampleId :

VSTDCCC010

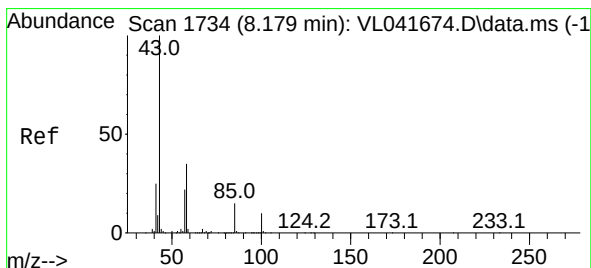
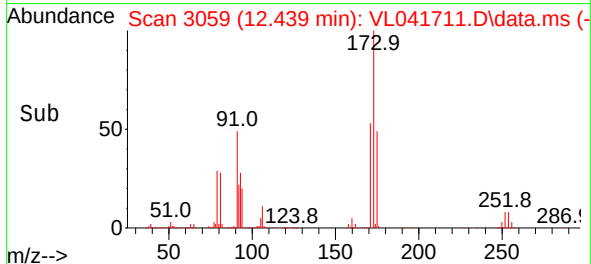
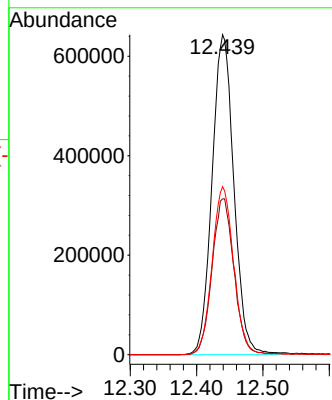
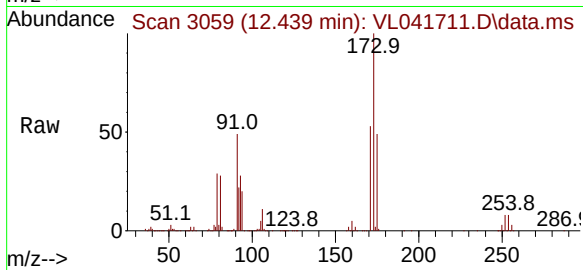
Tgt Ion:173 Resp: 1469304

Ion Ratio Lower Upper

173 100

175 49.5 39.2 58.8

171 52.2 41.7 62.5



#50

4-Methyl-2-Pentanone

Concen: 10.787 ppbv

RT: 8.211 min Scan# 1744

Delta R.T. 0.000 min

Lab File: VL041711.D

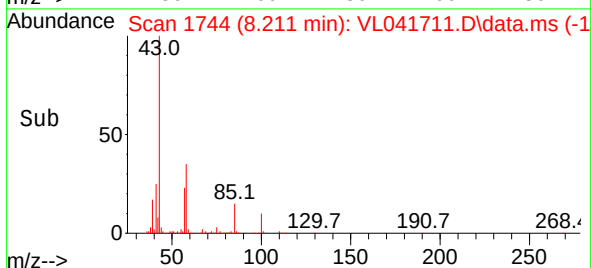
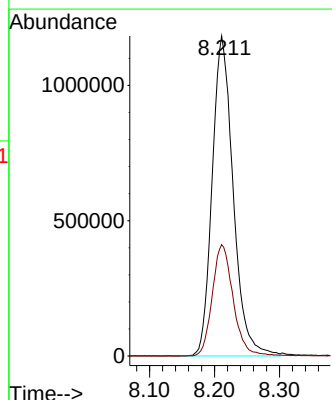
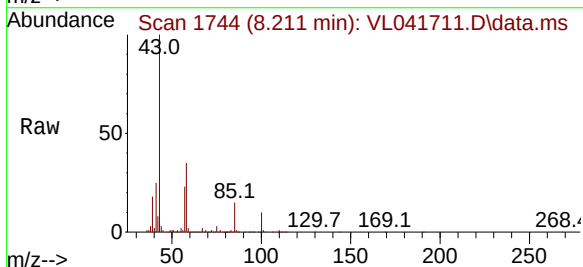
Acq: 21 Nov 2024 8:50

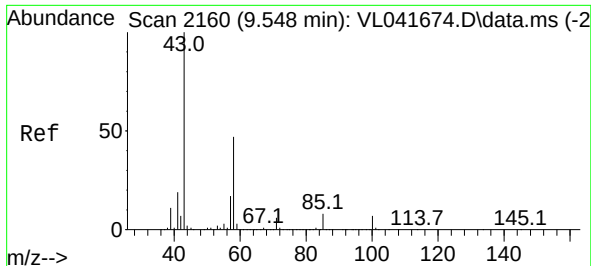
Tgt Ion: 43 Resp: 2653020

Ion Ratio Lower Upper

43 100

58 34.8 27.7 41.5

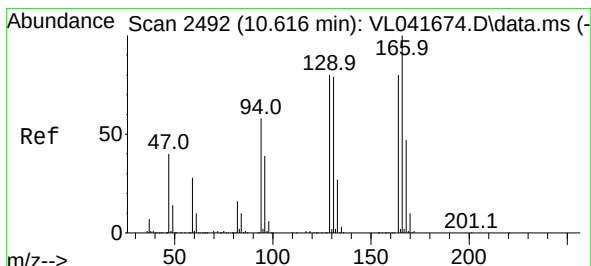
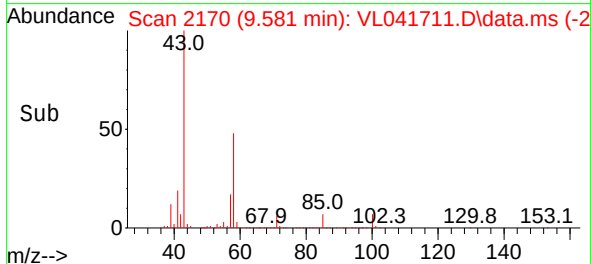
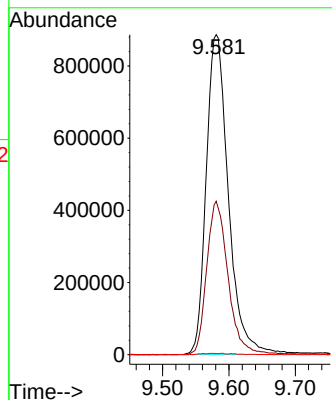
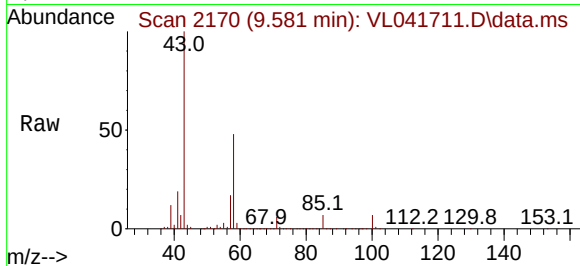




#51  
2-Hexanone  
Concen: 11.460 ppbv  
RT: 9.581 min Scan# 2160  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

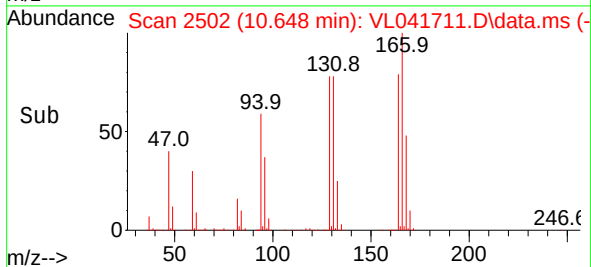
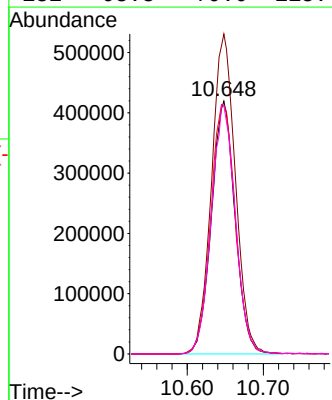
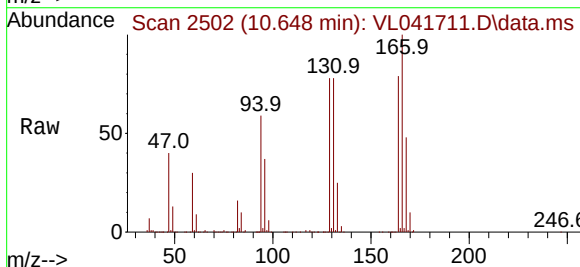
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

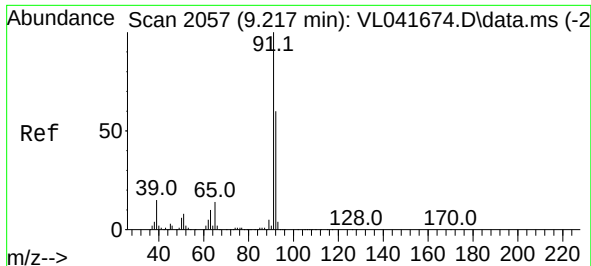
Tgt Ion: 43 Resp: 2052626  
Ion Ratio Lower Upper  
43 100  
58 46.8 37.0 55.6  
98 0.6 0.6 0.8



#52  
Tetrachloroethene  
Concen: 11.127 ppbv  
RT: 10.648 min Scan# 2502  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 164 Resp: 903960  
Ion Ratio Lower Upper  
164 100  
166 126.5 100.2 150.4  
129 98.3 79.7 119.5  
131 98.3 79.0 118.4





#53

Toluene

Concen: 11.317 ppbv

RT: 9.253 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

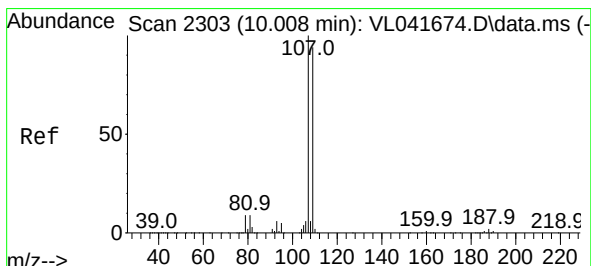
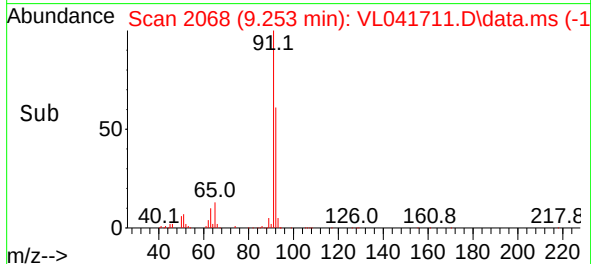
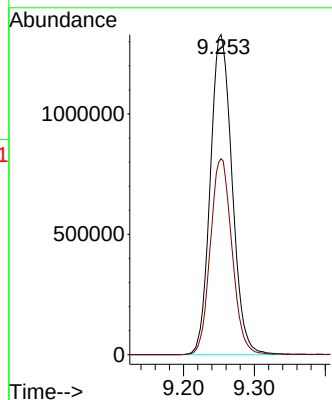
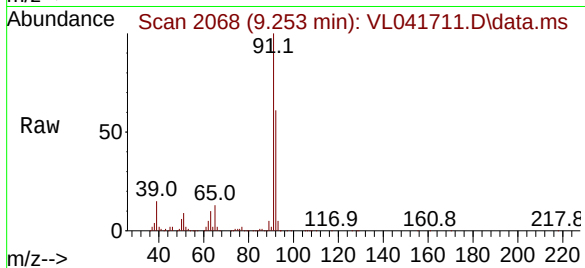
VSTDCCC010

Tgt Ion: 91 Resp: 2837342

Ion Ratio Lower Upper

91 100

92 61.0 49.0 73.4



#54

1,2-Dibromoethane

Concen: 11.480 ppbv

RT: 10.040 min Scan# 2313

Delta R.T. 0.000 min

Lab File: VL041711.D

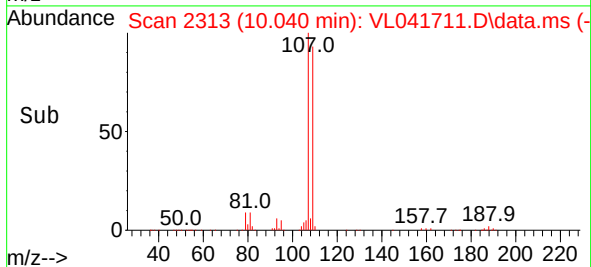
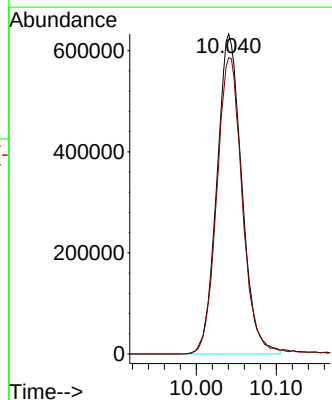
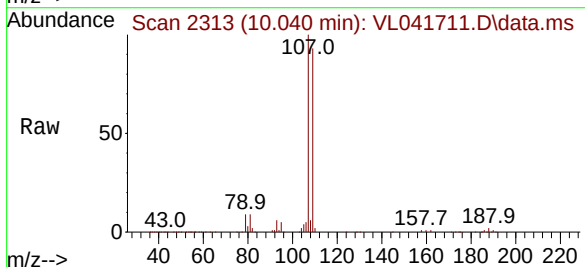
Acq: 21 Nov 2024 8:50

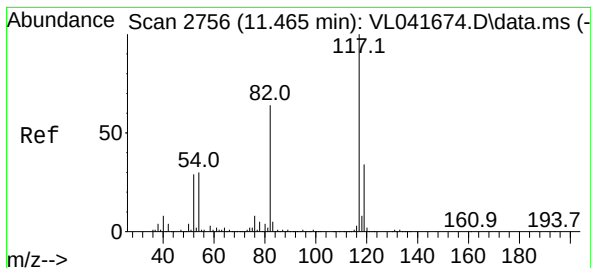
Tgt Ion: 107 Resp: 1367674

Ion Ratio Lower Upper

107 100

109 92.6 74.9 112.3

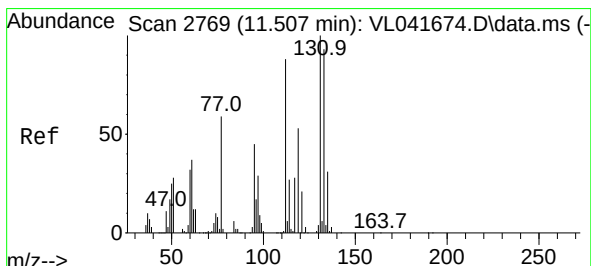
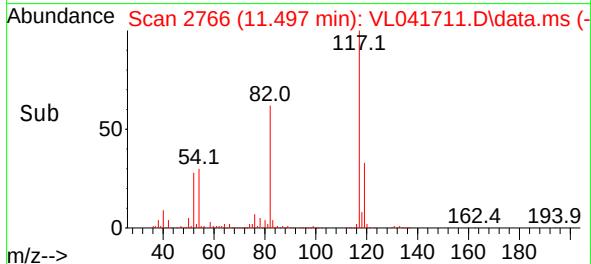
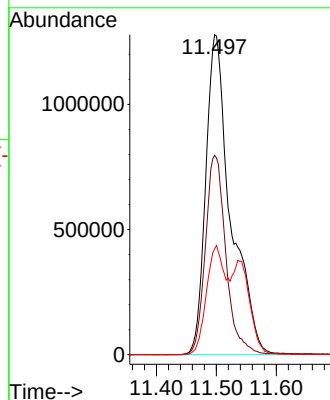
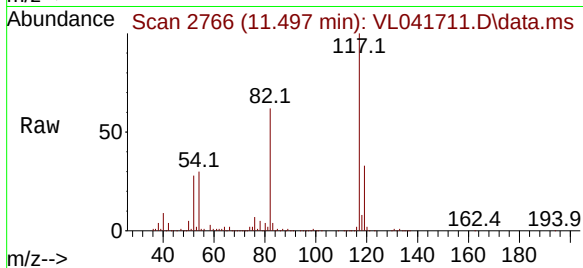




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.497 min Scan# 2756  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

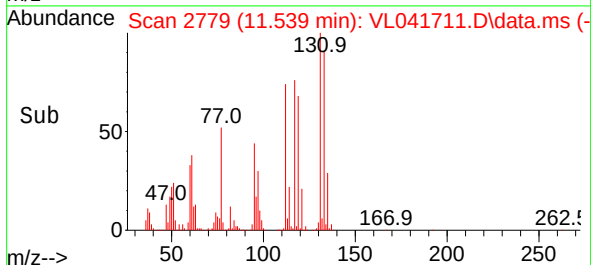
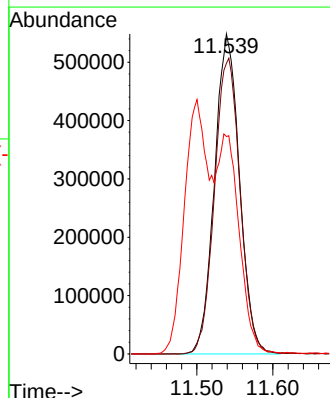
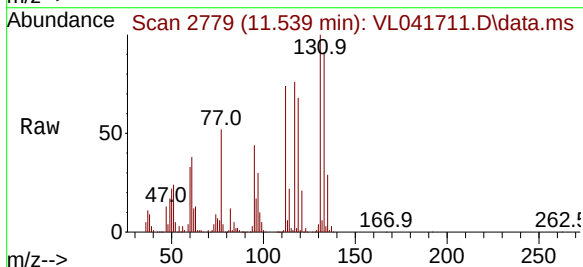
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

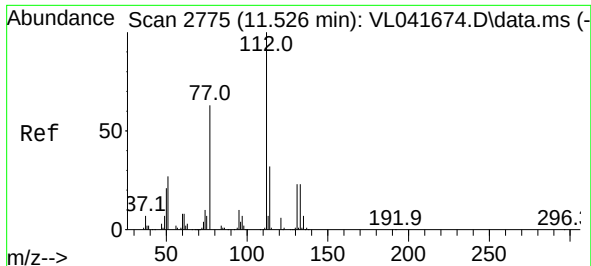
Tgt Ion:117 Resp: 3707892  
Ion Ratio Lower Upper  
117 100  
82 51.8 49.8 74.8  
119 23.9 24.2 36.4#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.195 ppbv  
RT: 11.539 min Scan# 2779  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion:131 Resp: 1253171  
Ion Ratio Lower Upper  
131 100  
133 94.8 76.5 114.7  
119 64.6 49.8 74.8





#57

Chlorobenzene

Concen: 8.031 ppbv

RT: 11.558 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

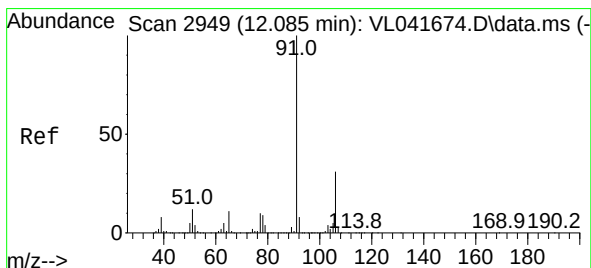
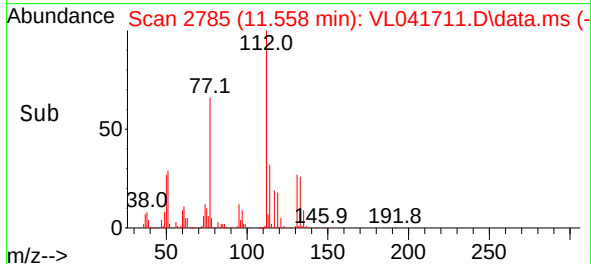
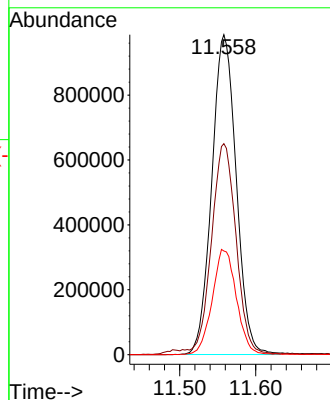
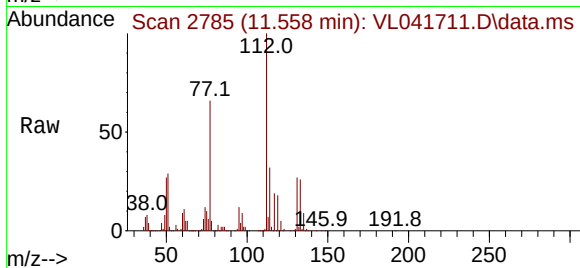
Tgt Ion:112 Resp: 2202336

Ion Ratio Lower Upper

112 100

77 65.7 51.4 77.2

114 32.3 28.4 34.8



#58

Ethyl Benzene

Concen: 9.368 ppbv

RT: 12.121 min Scan# 2960

Delta R.T. 0.000 min

Lab File: VL041711.D

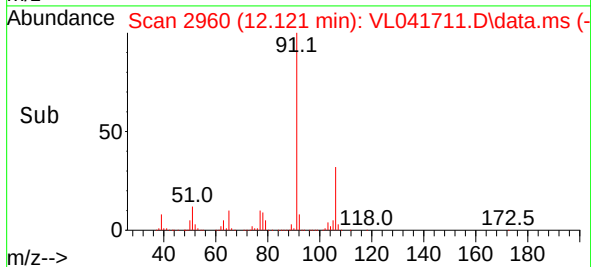
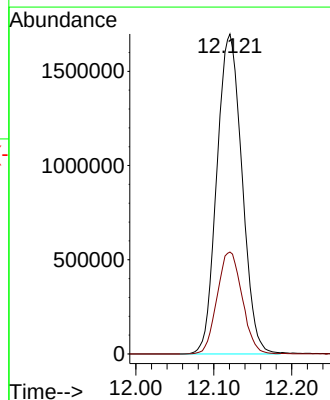
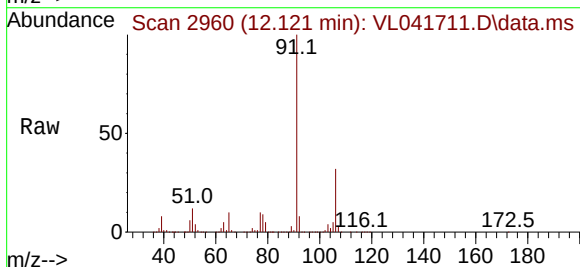
Acq: 21 Nov 2024 8:50

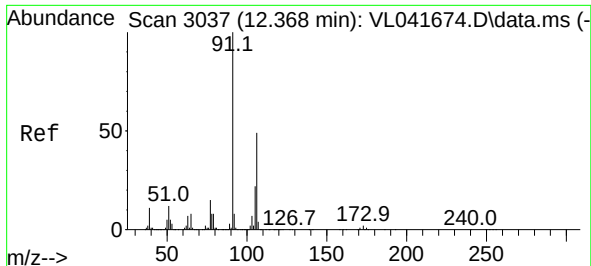
Tgt Ion: 91 Resp: 3808048

Ion Ratio Lower Upper

91 100

106 31.8 24.9 37.3





#59

m/p-Xylene

Concen: 9.049 ppbv

RT: 12.404 min Scan# 3048

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_1

ClientSampleId :

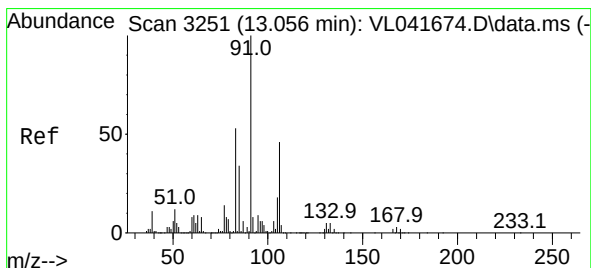
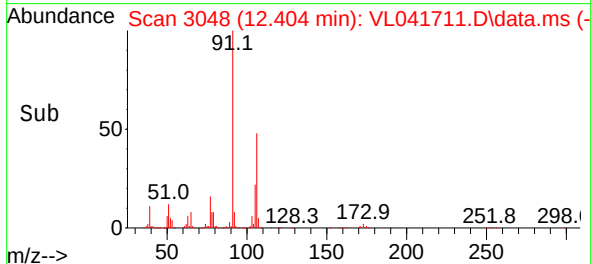
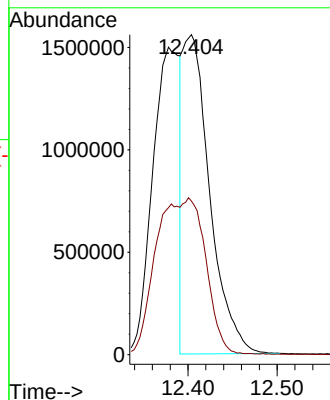
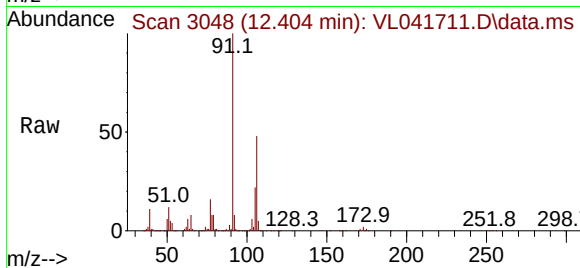
VSTDCCC010

Tgt Ion: 91 Resp: 3294190

Ion Ratio Lower Upper

91 100

106 90.2 36.9 55.3#



#60

o-Xylene

Concen: 8.954 ppbv

RT: 13.089 min Scan# 3261

Delta R.T. 0.000 min

Lab File: VL041711.D

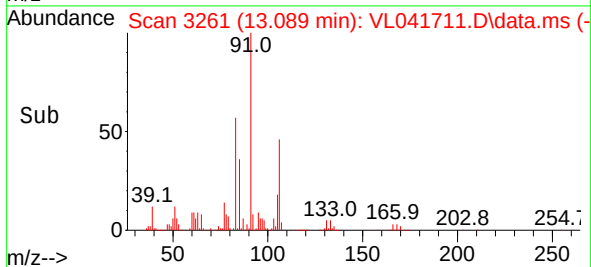
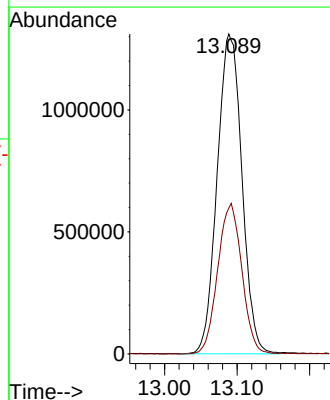
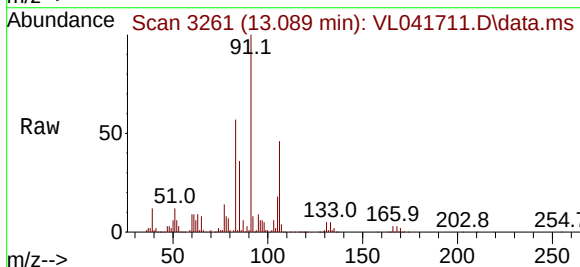
Acq: 21 Nov 2024 8:50

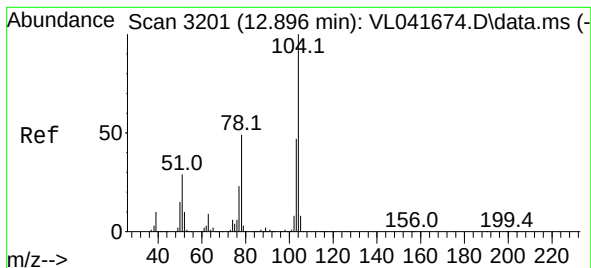
Tgt Ion: 91 Resp: 3108102

Ion Ratio Lower Upper

91 100

106 45.9 23.2 69.6





#61

Styrene

Concen: 10.457 ppbv

RT: 12.928 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

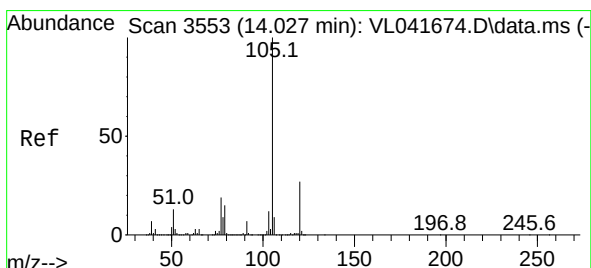
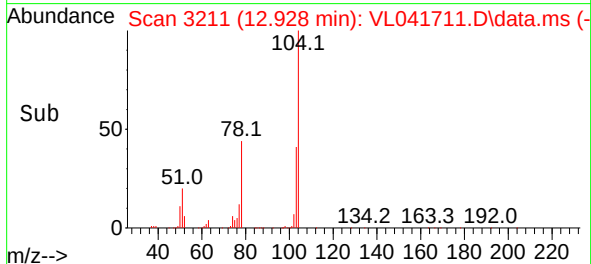
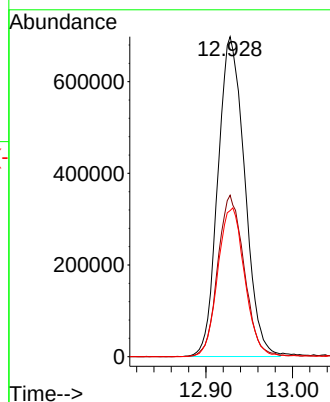
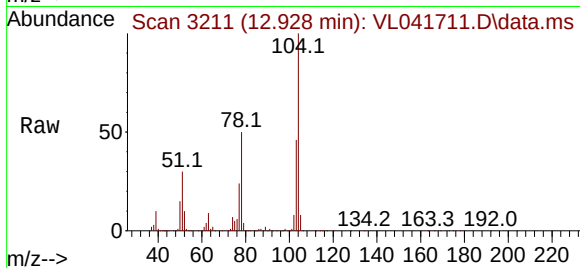
Tgt Ion:104 Resp: 1498189

Ion Ratio Lower Upper

104 100

78 49.9 39.8 59.8

103 47.1 37.4 56.0



#62

Isopropylbenzene

Concen: 8.553 ppbv

RT: 14.060 min Scan# 3563

Delta R.T. 0.000 min

Lab File: VL041711.D

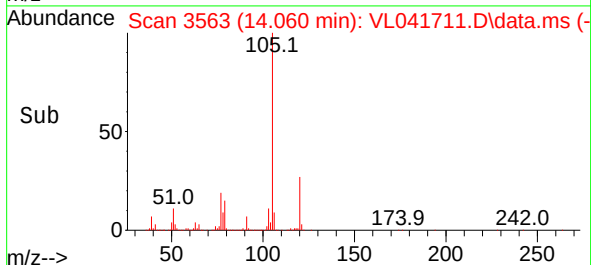
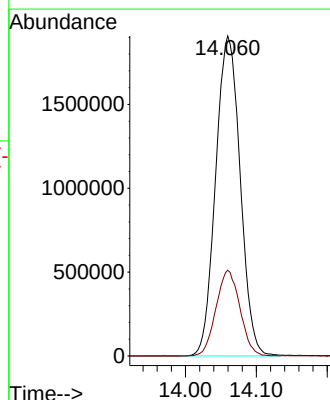
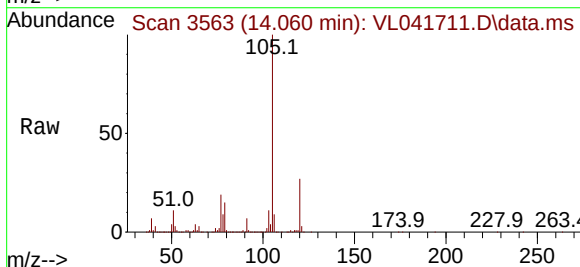
Acq: 21 Nov 2024 8:50

Tgt Ion:105 Resp: 4585032

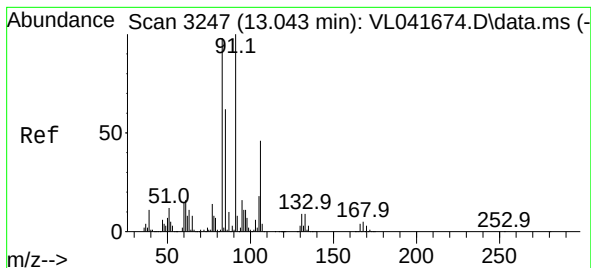
Ion Ratio Lower Upper

105 100

120 26.2 21.1 31.7



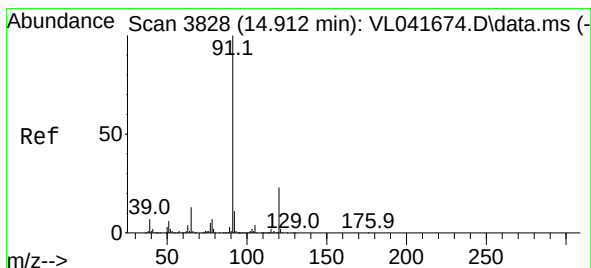
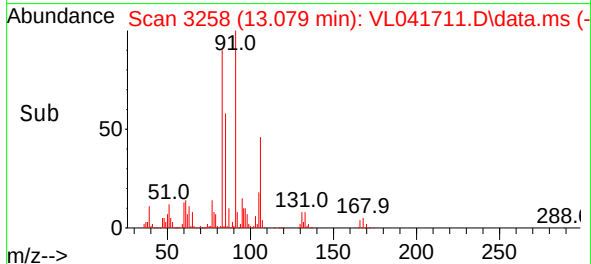
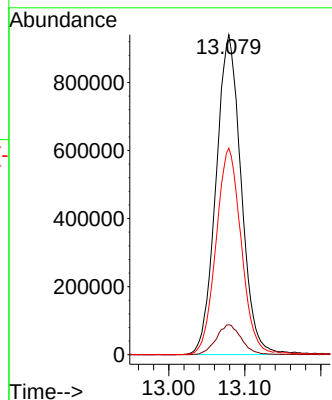
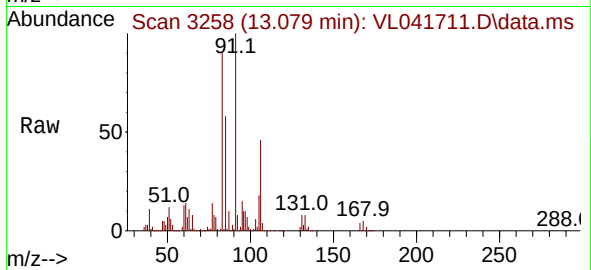




#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.443 ppbv  
RT: 13.079 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

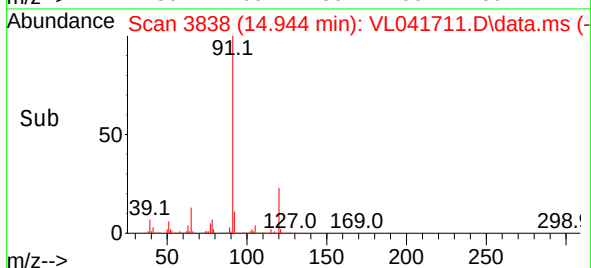
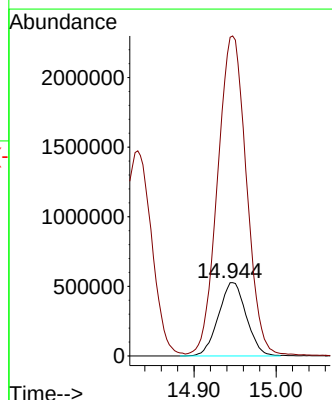
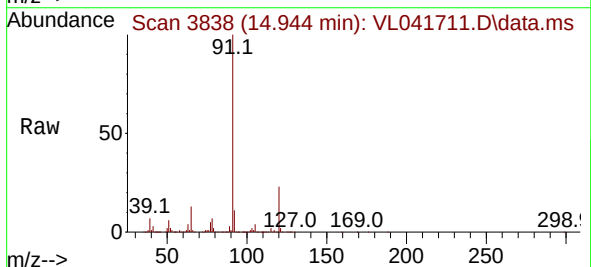
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

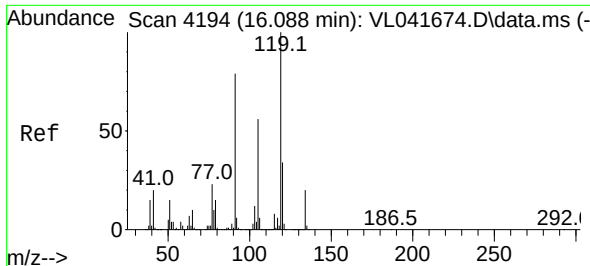
Tgt Ion: 83 Resp: 2155854  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 65.4 32.6 98.0



#64  
n-propylbenzene  
Concen: 8.858 ppbv  
RT: 14.944 min Scan# 3838  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion:120 Resp: 1243110  
Ion Ratio Lower Upper  
120 100  
91 454.7 362.4 543.6

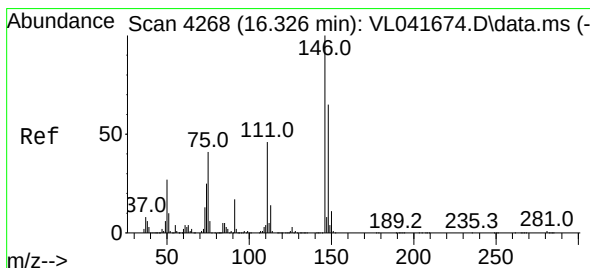
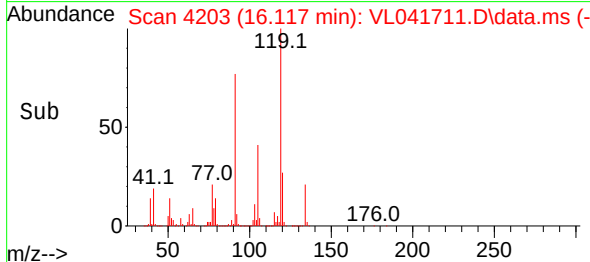
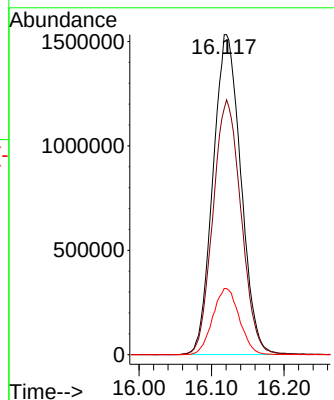
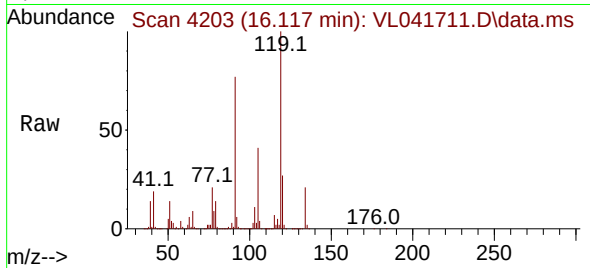




#65  
tert-Butylbenzene  
Concen: 8.493 ppbv  
RT: 16.117 min Scan# 4194  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

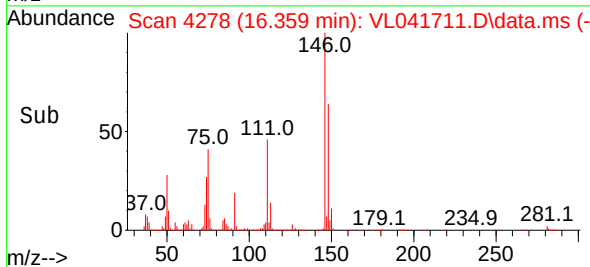
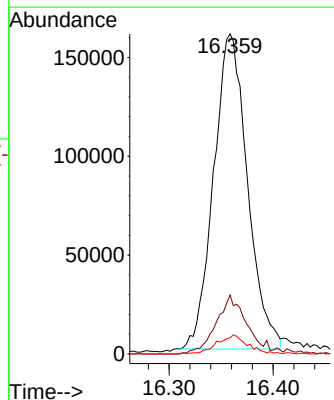
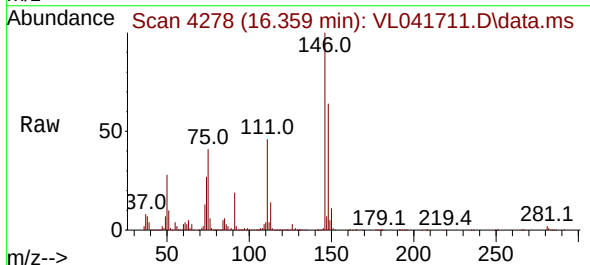
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

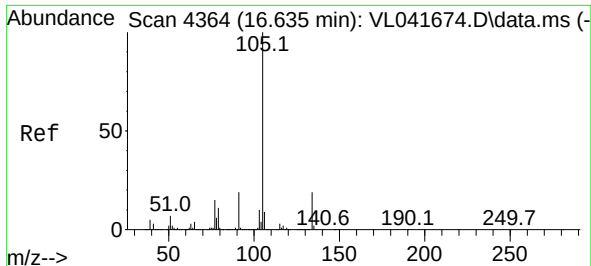
Tgt Ion:119 Resp: 4092301  
Ion Ratio Lower Upper  
119 100  
91 80.5 64.3 96.5  
134 19.8 15.8 23.8



#66  
Benzyl Chloride  
Concen: 9.723 ppbv  
RT: 16.359 min Scan# 4278  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 91 Resp: 360391  
Ion Ratio Lower Upper  
91 100  
126 17.8 13.8 20.6  
128 5.6 4.3 6.5





#67

sec-Butylbenzene

Concen: 8.494 ppbv

RT: 16.667 min Scan# 4364

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

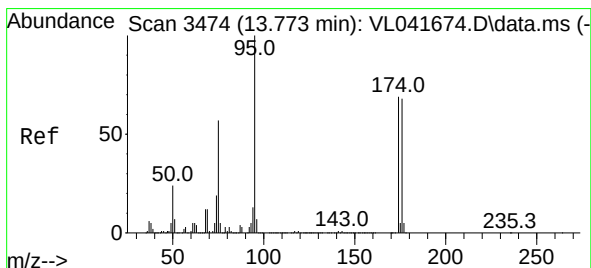
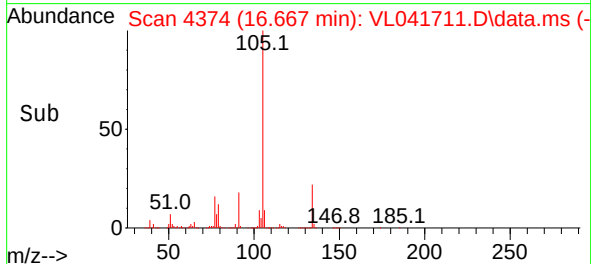
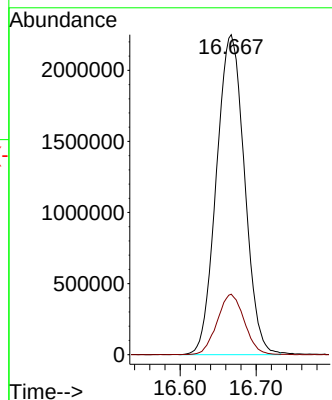
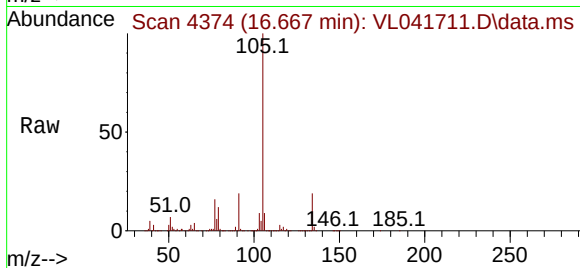
VSTDCCC010

Tgt Ion:105 Resp: 5768247

Ion Ratio Lower Upper

105 100

134 18.3 14.6 22.0



#68

1-Bromo-4-Fluorobenzene

Concen: 8.262 ppbv

RT: 13.806 min Scan# 3484

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

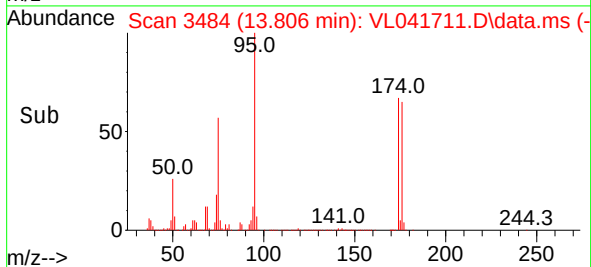
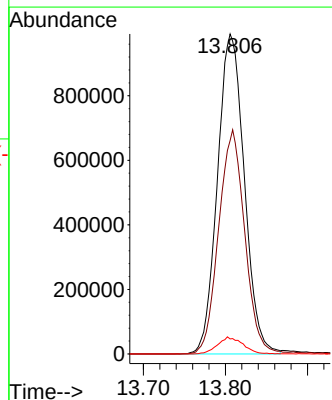
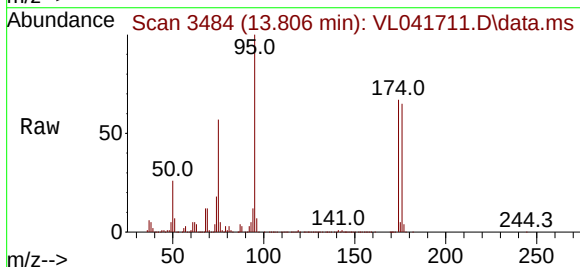
Tgt Ion: 95 Resp: 2257188

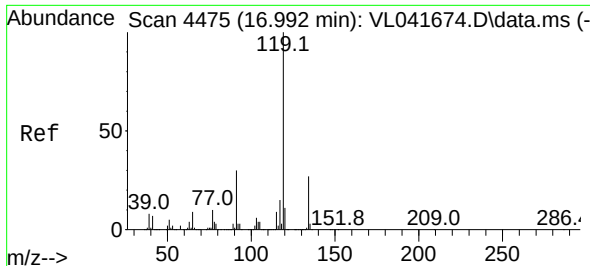
Ion Ratio Lower Upper

95 100

174 68.7 55.6 83.4

175 5.1 4.2 6.2





#69

p-Isopropyltoluene

Concen: 8.766 ppbv

RT: 17.027 min Scan# 4475

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

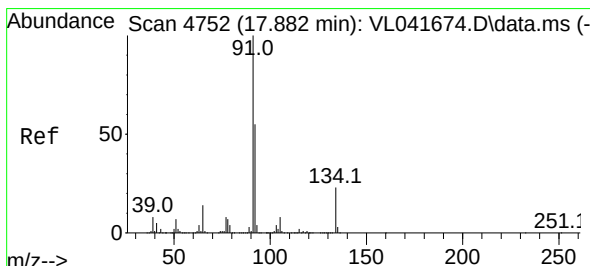
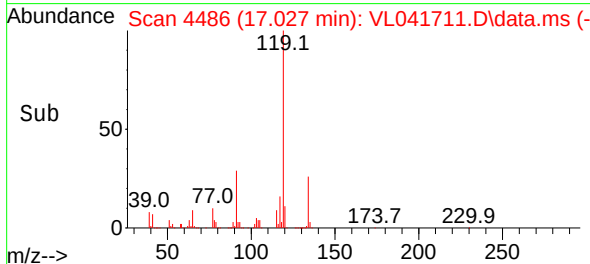
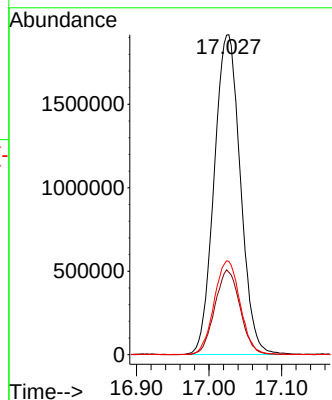
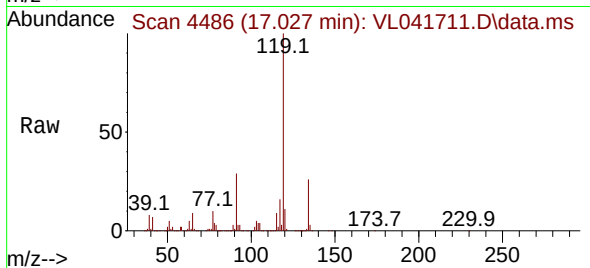
Tgt Ion:119 Resp: 4812497

Ion Ratio Lower Upper

119 100

134 25.7 20.8 31.2

91 28.9 23.2 34.8



#70

n-Butylbenzene

Concen: 8.833 ppbv

RT: 17.918 min Scan# 4763

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

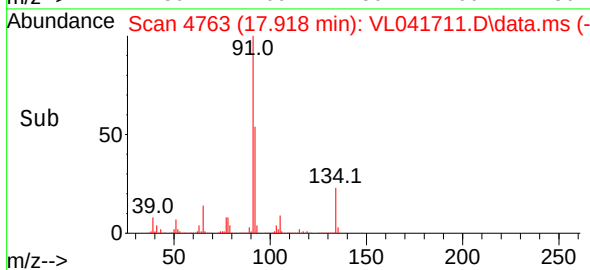
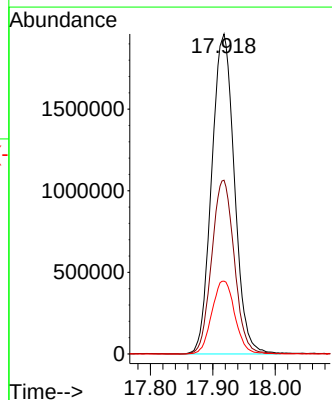
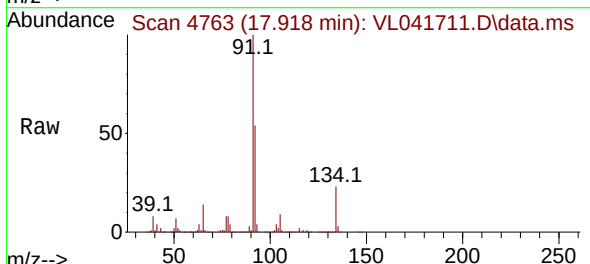
Tgt Ion: 91 Resp: 4962014

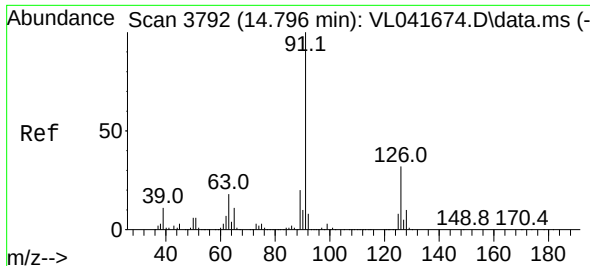
Ion Ratio Lower Upper

91 100

92 54.0 43.3 64.9

134 23.1 18.4 27.6

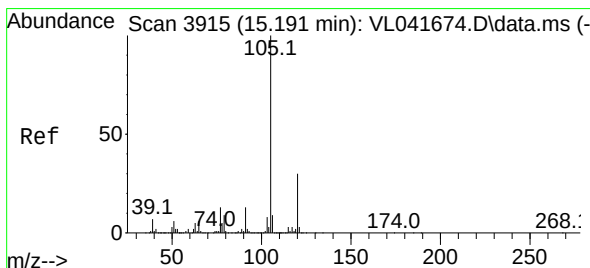
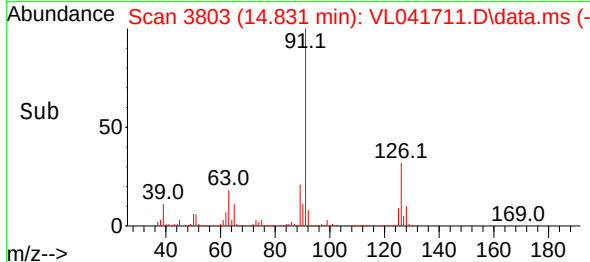
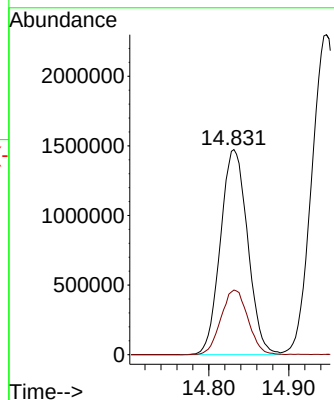
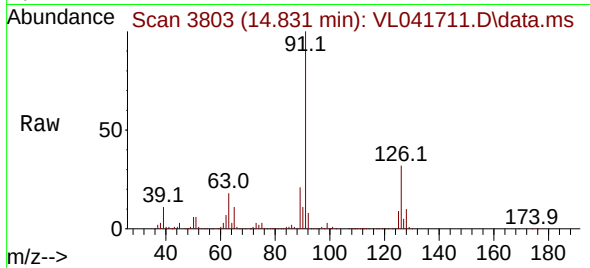




#71  
2-Chlorotoluene  
Concen: 8.992 ppbv  
RT: 14.831 min Scan# 3803  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

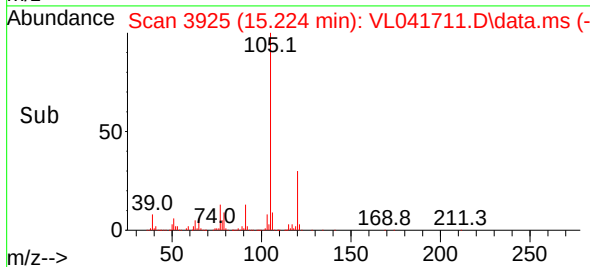
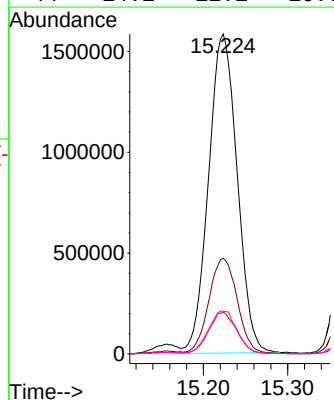
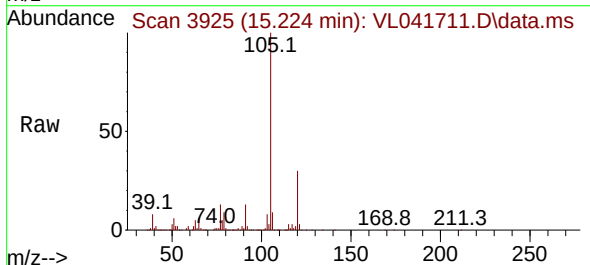
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

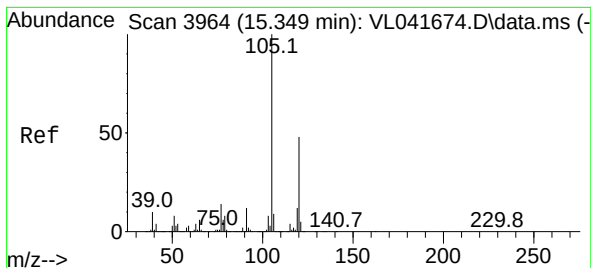
Tgt Ion: 91 Resp: 3484566  
Ion Ratio Lower Upper  
91 100  
126 31.5 12.8 51.0



#72  
4-Ethyltoluene  
Concen: 9.258 ppbv  
RT: 15.224 min Scan# 3925  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion: 105 Resp: 3736233  
Ion Ratio Lower Upper  
105 100  
120 30.9 25.0 37.4  
91 12.9 10.6 15.8  
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 8.987 ppbv

RT: 15.381 min Scan# 3964

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

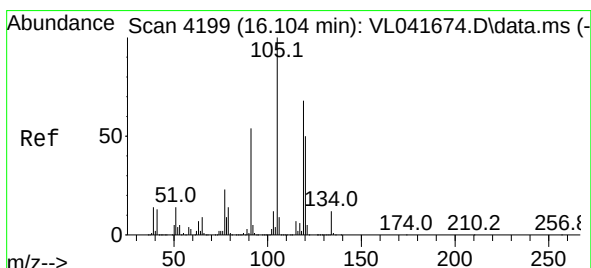
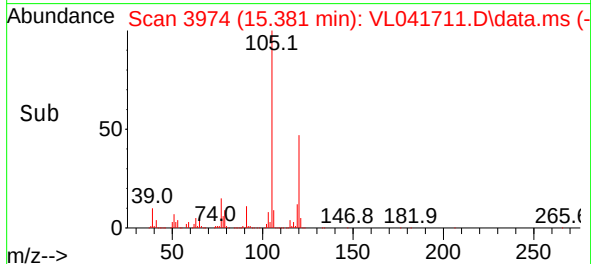
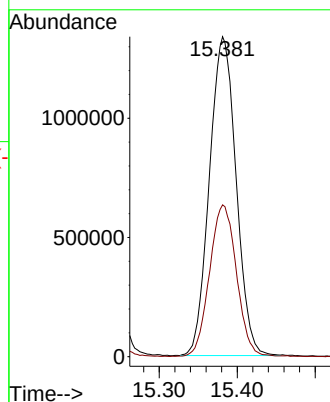
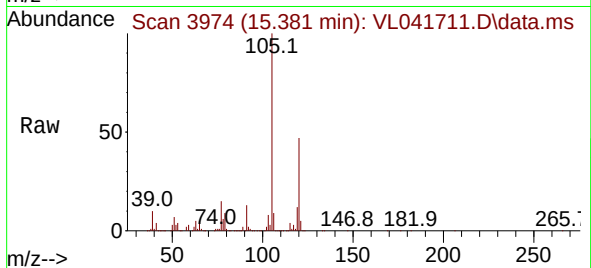
VSTDCCC010

Tgt Ion:105 Resp: 3182515

Ion Ratio Lower Upper

105 100

120 47.4 38.4 57.6



#74

1,2,4-Trimethylbenzene

Concen: 8.552 ppbv

RT: 16.140 min Scan# 4210

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Tgt Ion:105 Resp: 3517746

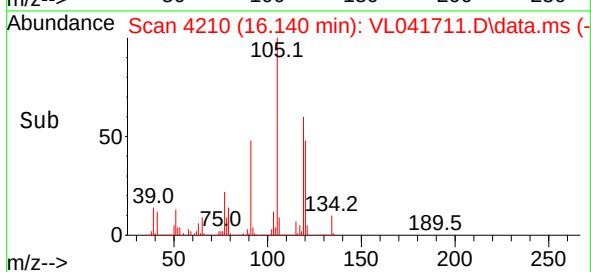
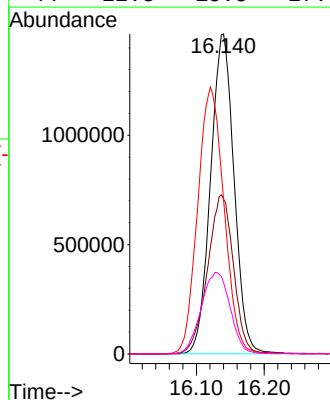
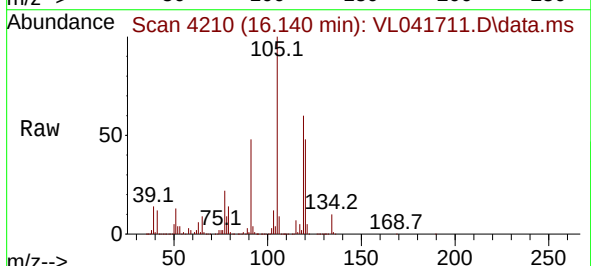
Ion Ratio Lower Upper

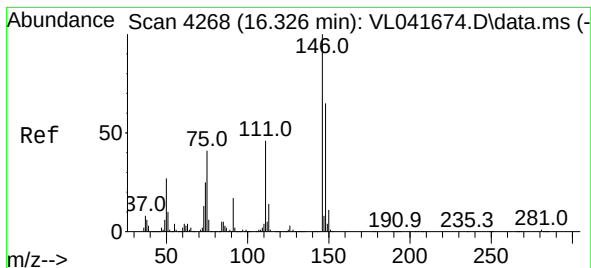
105 100

120 48.3 39.8 59.8

91 48.2 43.2 64.8

77 22.3 18.5 27.7





#75

1,3-Dichlorobenzene

Concen: 8.503 ppbv

RT: 16.362 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

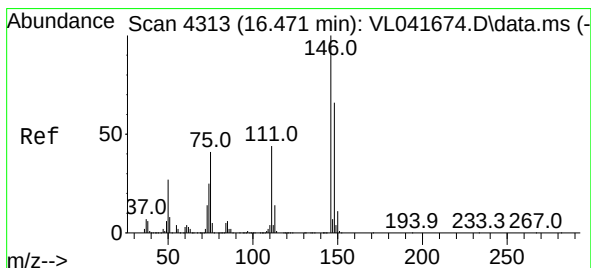
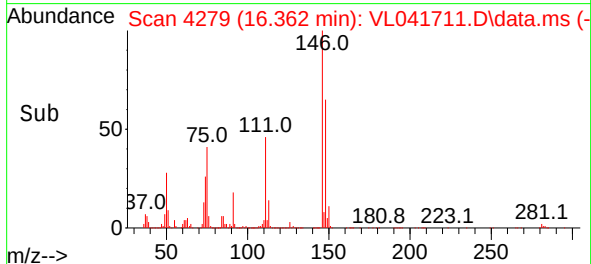
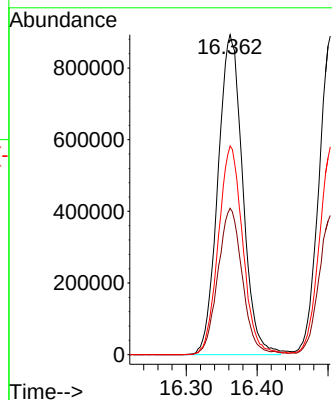
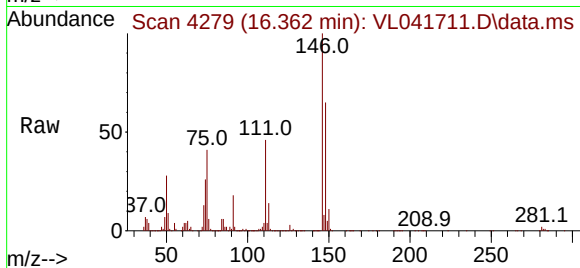
Tgt Ion:146 Resp: 2166163

Ion Ratio Lower Upper

146 100

111 45.4 22.8 68.3

148 64.6 32.4 97.0



#76

1,4-Dichlorobenzene

Concen: 8.524 ppbv

RT: 16.506 min Scan# 4324

Delta R.T. 0.000 min

Lab File: VL041711.D

Acq: 21 Nov 2024 8:50

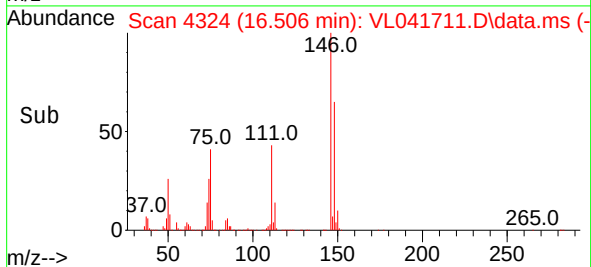
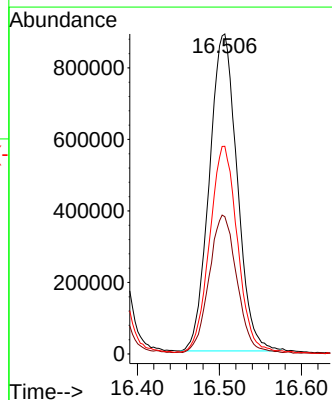
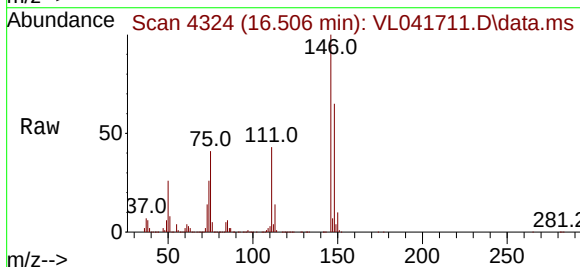
Tgt Ion:146 Resp: 2095111

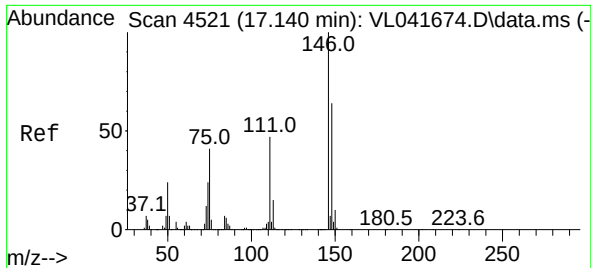
Ion Ratio Lower Upper

146 100

111 44.9 22.1 66.3

148 66.5 33.3 99.8

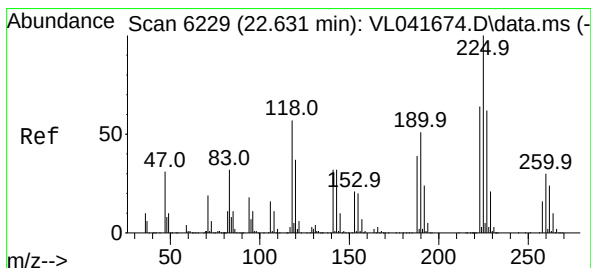
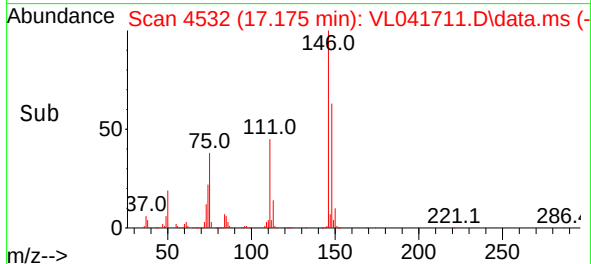
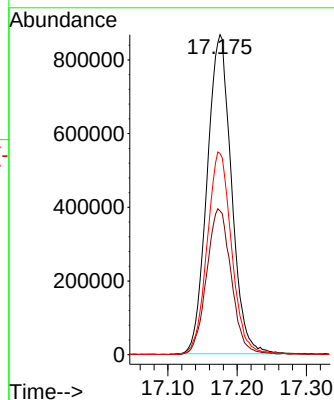
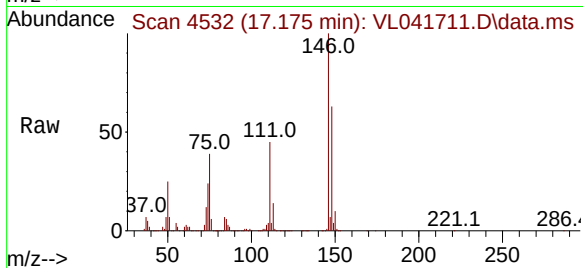




#77  
1,2-Dichlorobenzene  
Concen: 8.358 ppbv  
RT: 17.175 min Scan# 4532  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

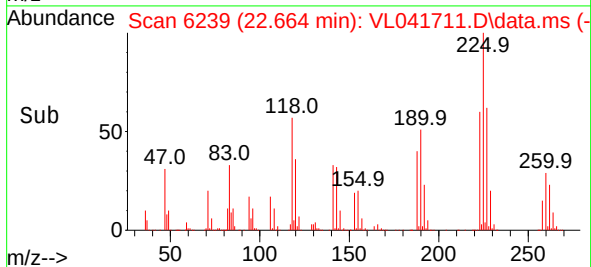
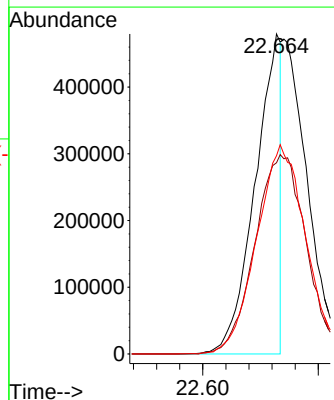
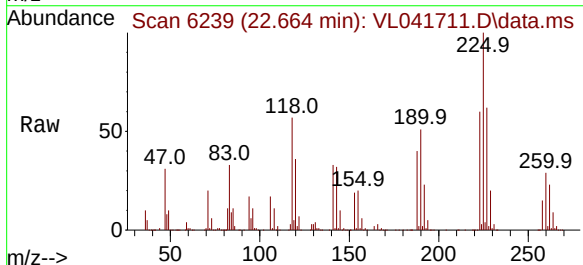
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:146 Resp: 2109445  
Ion Ratio Lower Upper  
146 100  
111 46.5 23.4 70.3  
148 64.2 32.1 96.5

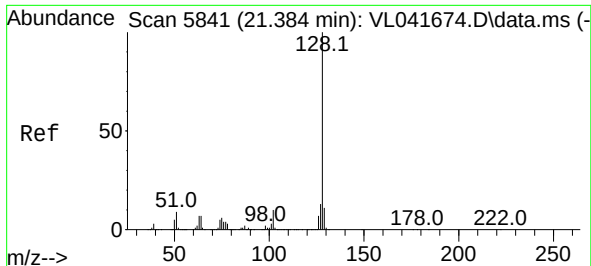


#78  
Hexachloro-1,3-Butadiene  
Concen: 3.716 ppbv  
RT: 22.664 min Scan# 6239  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion:225 Resp: 741691  
Ion Ratio Lower Upper  
225 100  
223 125.0 51.1 76.7#  
227 125.7 51.3 76.9#



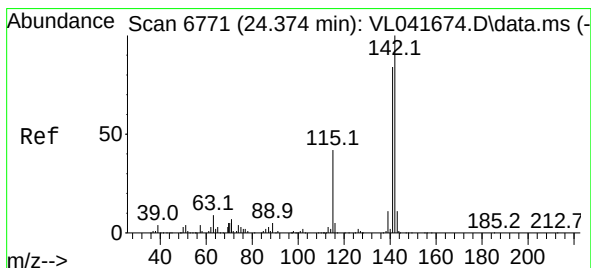
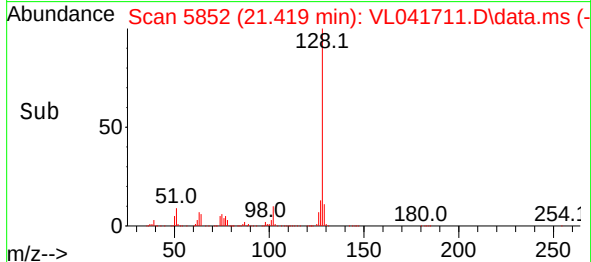
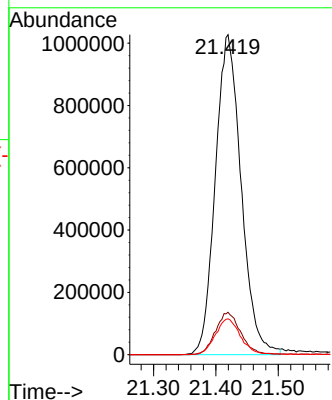
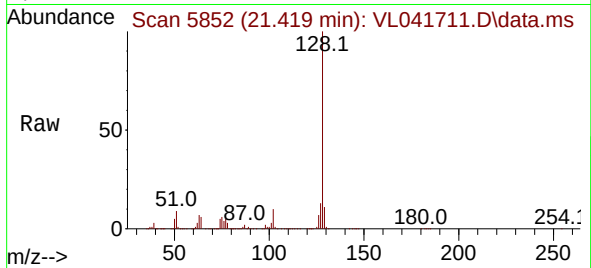




#79  
Naphthalene  
Concen: 11.628 ppbv  
RT: 21.419 min Scan# 5852  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

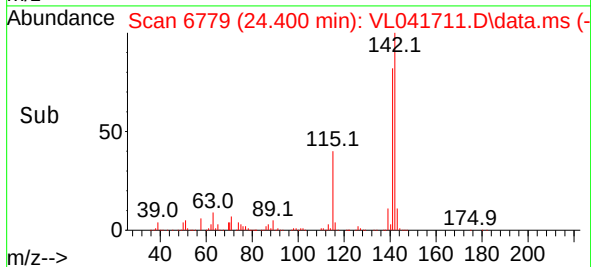
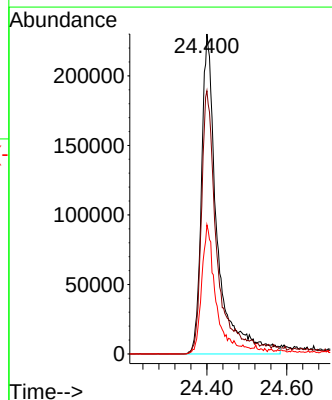
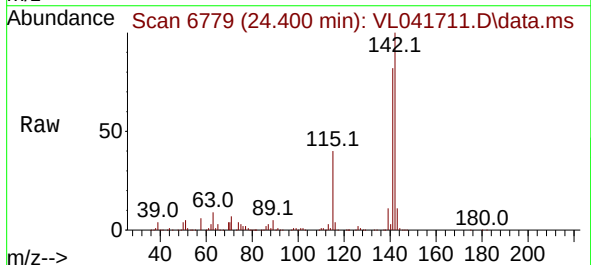
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

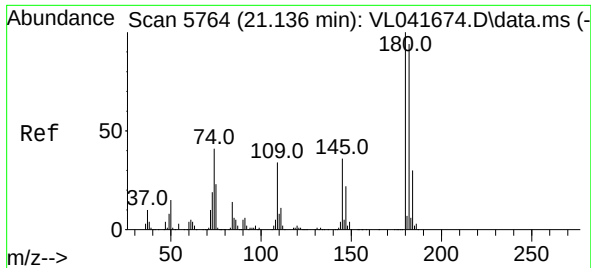
Tgt Ion:128 Resp: 2952462  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.5 15.7  
129 11.2 8.7 13.1



#80  
Naphthalene, 2-methyl-  
Concen: 11.396 ppbv  
RT: 24.400 min Scan# 6779  
Delta R.T. 0.000 min  
Lab File: VL041711.D  
Acq: 21 Nov 2024 8:50

Tgt Ion:142 Resp: 630748  
Ion Ratio Lower Upper  
142 100  
141 84.6 68.1 102.1  
115 40.1 33.1 49.7





#81

1,2,4-Trichlorobenzene

Concen: 9.401 ppbv

RT: 21.175 min Scan# 5

Delta R.T. 0.000 min

Lab File: VL041711.D

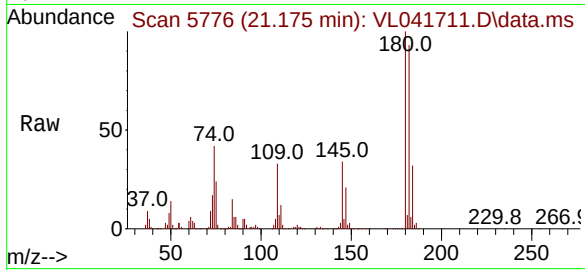
Acq: 21 Nov 2024 8:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010



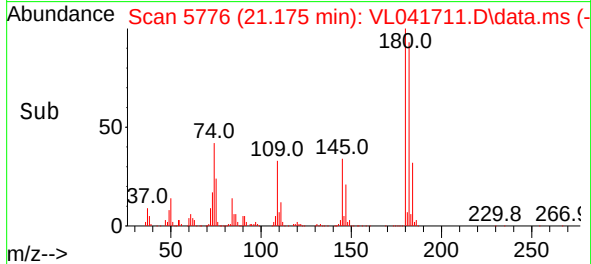
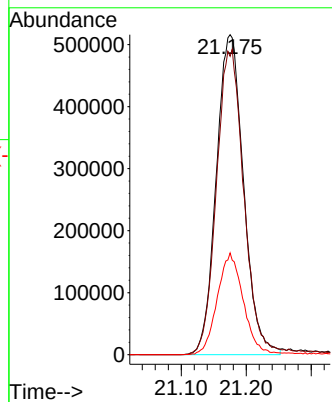
Tgt Ion:180 Resp: 1501117

Ion Ratio Lower Upper

180 100

182 96.9 78.2 117.2

184 30.6 25.0 37.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112124\  
 Data File : VL041713.D  
 Acq On : 21 Nov 2024 10:16  
 Operator : SY/MD  
 Sample : VL1121ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1121ABS01

Quant Time: Nov 22 01:06:55 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Fri Nov 22 01:00:55 2024

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.227  | 49   | 1134955  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.687  | 114  | 3168983  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.500 | 117  | 3594883  | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 13.806 | 95    | 2215094  | 8.363    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 83.600% |

#### Target Compounds

|                               |       |     |         |        | Qvalue |     |
|-------------------------------|-------|-----|---------|--------|--------|-----|
| 2) Dichlorodifluoromethane    | 2.764 | 85  | 1630144 | 7.947  | ppbv   | 98  |
| 3) Chlorodifluoromethane      | 2.706 | 51  | 1285062 | 8.690  | ppbv   | 99  |
| 4) Chloromethane              | 2.848 | 50  | 716415  | 9.146  | ppbv   | 96  |
| 5) Vinyl Chloride             | 2.954 | 62  | 682024  | 9.680  | ppbv   | 100 |
| 6) Bromomethane               | 3.153 | 94  | 304189  | 8.138  | ppbv   | 98  |
| 7) Chloroethane               | 3.230 | 64  | 237287  | 9.227  | ppbv   | 98  |
| 8) Dichlorotetrafluoroethane  | 2.890 | 85  | 1655625 | 9.041  | ppbv   | 99  |
| 9) Propene                    | 2.729 | 41  | 588833  | 9.138  | ppbv   | 100 |
| 10) Heptane                   | 7.613 | 43  | 1461776 | 10.124 | ppbv   | 99  |
| 11) Trichlorofluoromethane    | 3.594 | 101 | 1648437 | 9.226  | ppbv   | 99  |
| 12) 1,1,2-Trichlorotrifluo... | 4.099 | 101 | 1220108 | 9.395  | ppbv   | 98  |
| 13) Ethanol                   | 3.285 | 45  | 8243    | 2.089  | ppbv # | 26  |
| 14) Bromoethene               | 3.401 | 108 | 483950  | 9.269  | ppbv   | 98  |
| 15) Acetone                   | 3.501 | 43  | 1224405 | 8.766  | ppbv   | 100 |
| 16) 1,3-Butadiene             | 3.018 | 39  | 687757  | 9.758  | ppbv   | 100 |
| 17) tert-Butyl alcohol        | 3.912 | 59  | 1149012 | 9.374  | ppbv   | 100 |
| 18) 1,1-Dichloroethene        | 3.915 | 96  | 535425  | 9.400  | ppbv   | 97  |
| 19) Isopropyl Alcohol         | 3.610 | 45  | 625847  | 9.374  | ppbv   | 100 |
| 20) Methylene Chloride        | 3.967 | 84  | 445518  | 8.668  | ppbv   | 98  |
| 21) Allyl Chloride            | 4.031 | 41  | 833062  | 9.652  | ppbv   | 97  |
| 22) trans-1,2-Dichloroethene  | 4.478 | 96  | 536875  | 9.479  | ppbv   | 100 |
| 23) Vinyl Acetate             | 4.658 | 43  | 757071  | 12.295 | ppbv # | 97  |
| 24) 1,1-Dichloroethane        | 4.597 | 63  | 1176486 | 9.307  | ppbv   | 99  |
| 25) Ethyl Acetate             | 5.237 | 43  | 2679235 | 9.267  | ppbv   | 99  |
| 26) Hexane                    | 5.246 | 57  | 1065415 | 9.591  | ppbv   | 98  |
| 27) Carbon Disulfide          | 4.156 | 76  | 1327851 | 10.640 | ppbv   | 99  |
| 28) Methyl tert-Butyl Ether   | 4.619 | 73  | 670312  | 9.371  | ppbv   | 99  |
| 29) Chloroform                | 5.308 | 83  | 1693486 | 9.236  | ppbv   | 100 |
| 30) Cyclohexane               | 6.635 | 84  | 903309  | 9.550  | ppbv   | 98  |
| 31) cis-1,2-Dichloroethene    | 5.111 | 61  | 1042430 | 9.755  | ppbv   | 99  |
| 32) 1,1,1-Trichloroethane     | 6.037 | 97  | 1669061 | 9.978  | ppbv   | 100 |
| 34) 2-Butanone                | 4.819 | 43  | 1417727 | 8.985  | ppbv   | 99  |
| 35) Carbon Tetrachloride      | 6.529 | 117 | 1741838 | 10.418 | ppbv   | 99  |
| 36) Benzene                   | 6.404 | 78  | 2312069 | 9.847  | ppbv   | 100 |
| 37) 1,2-Dichloroethane        | 5.841 | 62  | 1284047 | 9.693  | ppbv   | 99  |
| 38) Trichloroethene           | 7.327 | 130 | 1289883 | 14.303 | ppbv   | 98  |
| 39) 1,2-Dichloropropane       | 7.105 | 63  | 891656  | 9.610  | ppbv   | 97  |
| 40) 1,4-Dioxane               | 7.317 | 88  | 363295  | 10.912 | ppbv   | 90  |
| 41) Tetrahydrofuran           | 5.590 | 42  | 934965  | 10.375 | ppbv   | 99  |
| 42) Bromodichloromethane      | 7.285 | 83  | 1839599 | 9.994  | ppbv   | 99  |
| 43) Methyl Methacrylate       | 7.507 | 69  | 901641  | 10.937 | ppbv   | 99  |
| 44) 2,2,4-Trimethylpentane    | 7.359 | 57  | 3894162 | 9.791  | ppbv   | 100 |
| 45) t-1,3-Dichloropropene     | 8.745 | 75  | 748133  | 9.931  | ppbv   | 99  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112124\  
 Data File : VL041713.D  
 Acq On : 21 Nov 2024 10:16  
 Operator : SY/MD  
 Sample : VL1121ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1121ABS01

Quant Time: Nov 22 01:06:55 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 22 01:00:55 2024  
 Response via : Initial Calibration

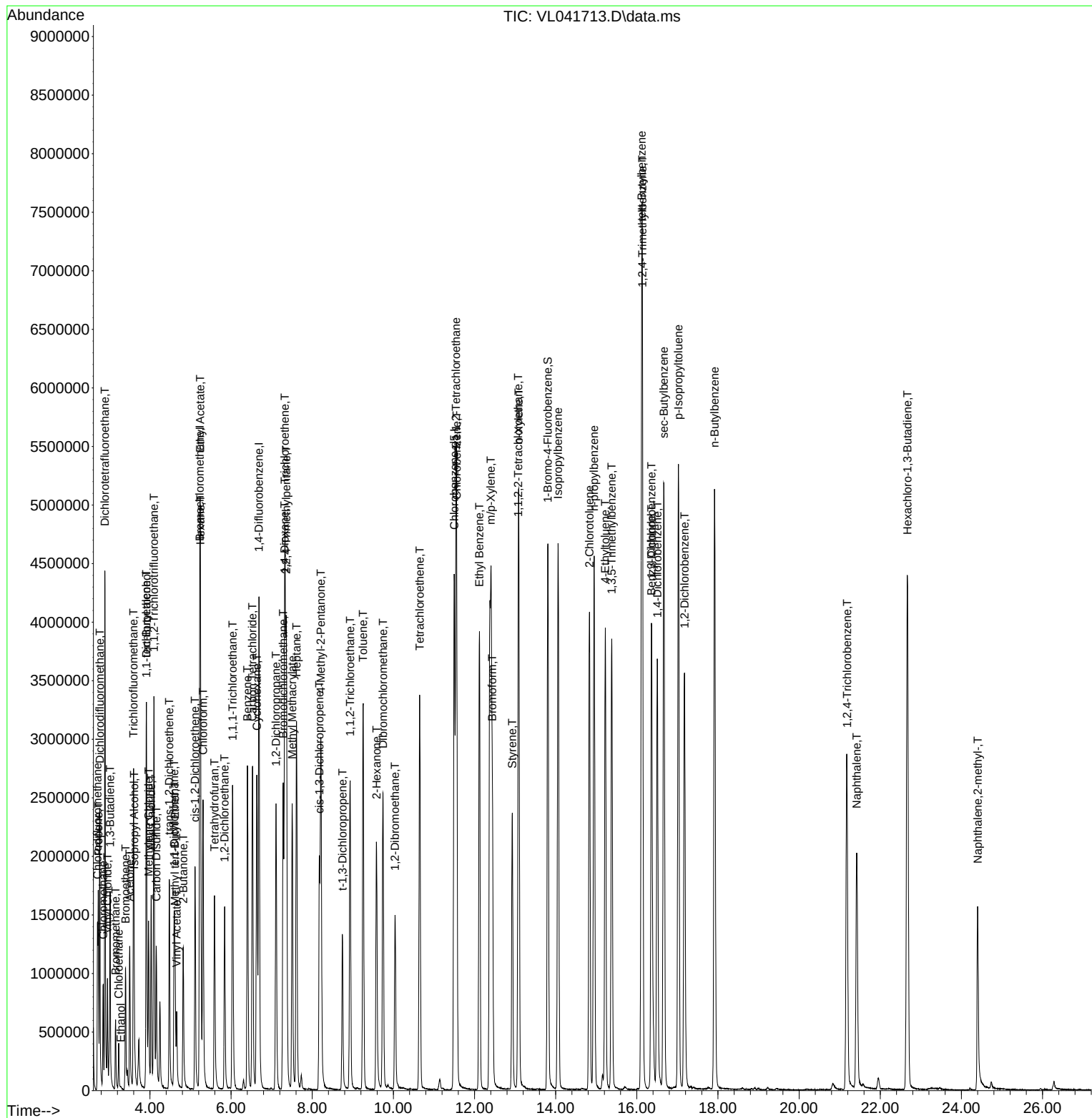
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.179  | 75   | 1103972  | 10.203 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 8.934  | 97   | 949123   | 9.451  | ppbv   | 98       |
| 48) Dibromochloromethane      | 9.745  | 129  | 1553797  | 10.178 | ppbv   | 100      |
| 49) Bromoform                 | 12.439 | 173  | 1365111  | 10.451 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.214  | 43   | 2511109  | 10.366 | ppbv   | 100      |
| 51) 2-Hexanone                | 9.584  | 43   | 1968115  | 11.157 | ppbv   | 100      |
| 52) Tetrachloroethene         | 10.648 | 164  | 833665   | 10.419 | ppbv   | 97       |
| 53) Toluene                   | 9.253  | 91   | 2633054  | 10.664 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.040 | 107  | 1247128  | 10.629 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.542 | 131  | 1158400  | 7.813  | ppbv   | 100      |
| 57) Chlorobenzene             | 11.561 | 112  | 2078199  | 7.816  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.121 | 91   | 3565857  | 9.048  | ppbv   | 98       |
| 59) m/p-Xylene                | 12.404 | 91   | 3175161  | 8.997  | ppbv # | 36       |
| 60) o-Xylene                  | 13.089 | 91   | 2972199  | 8.832  | ppbv   | 99       |
| 61) Styrene                   | 12.931 | 104  | 1410360  | 10.154 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.060 | 105  | 4263154  | 8.202  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.079 | 83   | 1179536  | 4.765  | ppbv   | 99       |
| 64) n-propylbenzene           | 14.947 | 120  | 1146628  | 8.427  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.121 | 119  | 3836581  | 8.213  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.359 | 91   | 179175   | 4.986  | ppbv   | 96       |
| 67) sec-Butylbenzene          | 16.664 | 105  | 5364091  | 8.147  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.027 | 119  | 4458745  | 8.377  | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.918 | 91   | 4604740  | 8.455  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 14.835 | 91   | 3223209  | 8.579  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.224 | 105  | 3514757  | 8.983  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.381 | 105  | 2999740  | 8.737  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.140 | 105  | 3320988  | 8.327  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 16.362 | 146  | 2028386  | 8.212  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 16.506 | 146  | 1989769  | 8.350  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.175 | 146  | 1974338  | 8.069  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.670 | 225  | 1371815  | 7.089  | ppbv   | 99       |
| 79) Naphthalene               | 21.419 | 128  | 2632672  | 10.695 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.403 | 142  | 1177283  | 21.939 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.182 | 180  | 562756   | 3.635  | ppbv # | 5        |

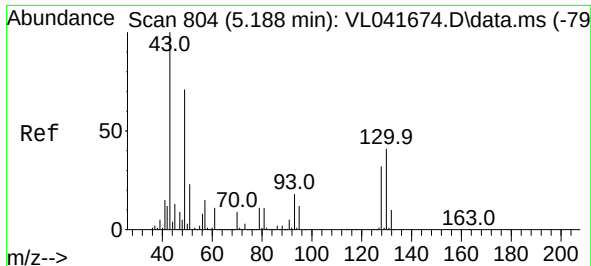
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112124\
Data File : VL041713.D
Acq On    : 21 Nov 2024 10:16
Operator  : SY/MD
Sample    : VL1121ABS01
Misc      : 400mL/MSVOA_L
ALS Vial  : 1   Sample Multiplier: 1
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**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VL1121ABS01

Quant Time: Nov 22 01:06:55 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 22 01:00:55 2024  
Response via : Initial Calibration

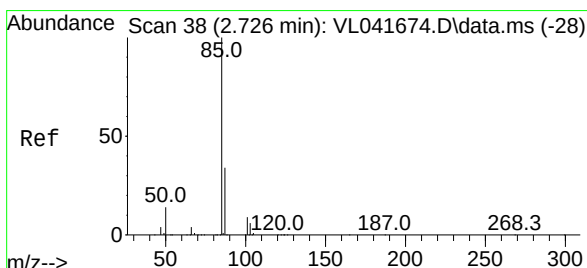
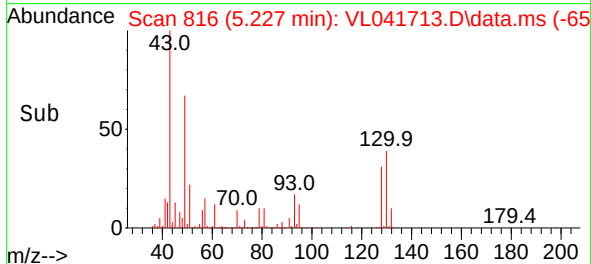
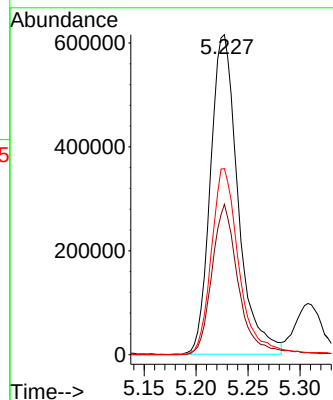
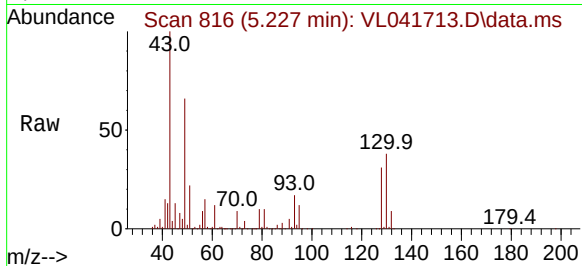




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.227 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

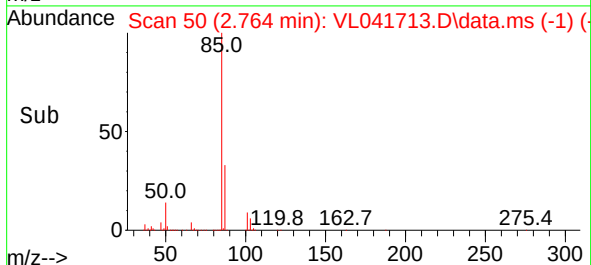
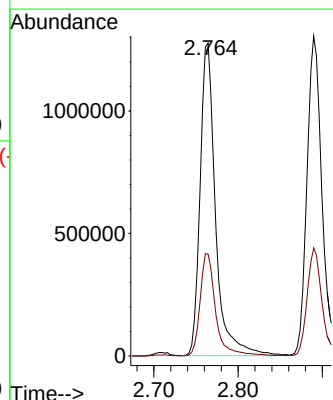
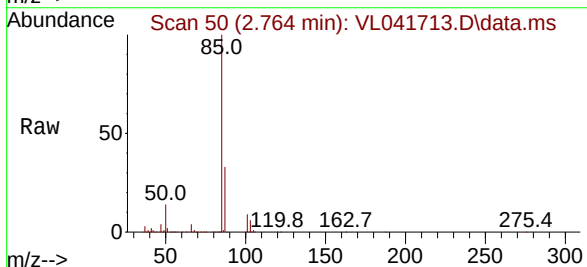
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

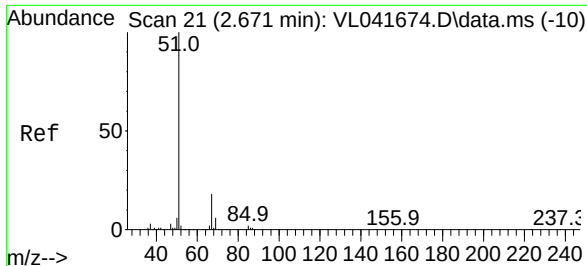
Tgt Ion: 49 Resp: 1134955  
Ion Ratio Lower Upper  
49 100  
128 46.2 23.8 71.2  
130 59.4 30.1 90.5



#2  
Dichlorodifluoromethane  
Concen: 7.947 ppbv  
RT: 2.764 min Scan# 50  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 85 Resp: 1630144  
Ion Ratio Lower Upper  
85 100  
87 32.6 26.8 40.2

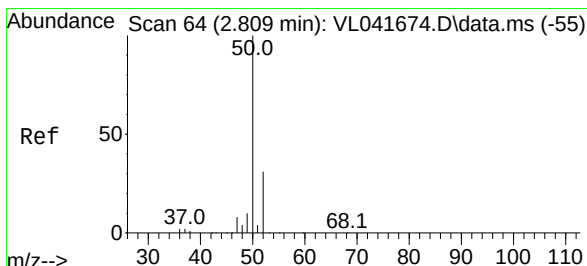
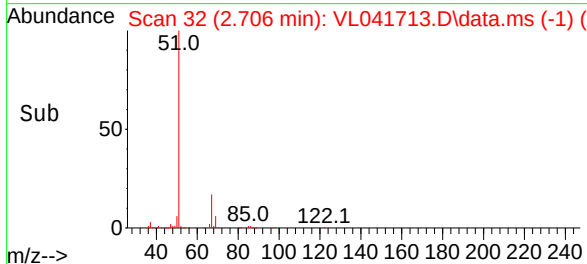
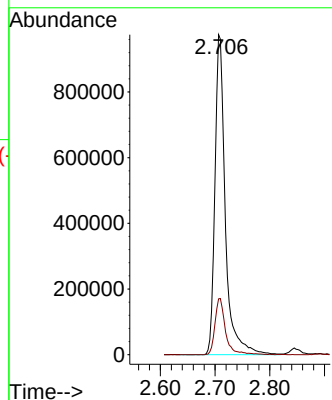
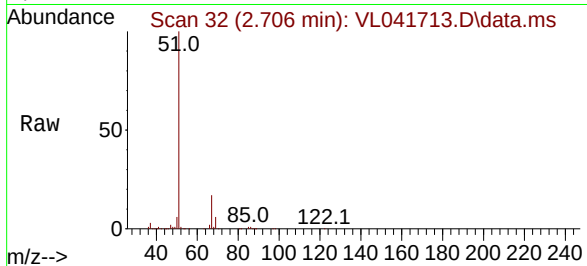




#3  
Chlorodifluoromethane  
Concen: 8.690 ppbv  
RT: 2.706 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

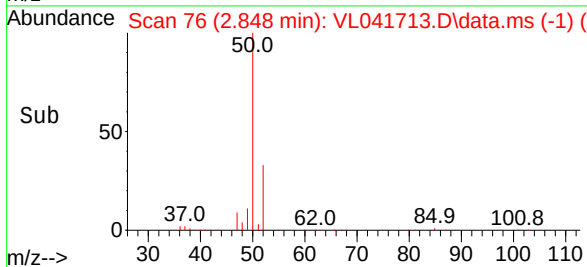
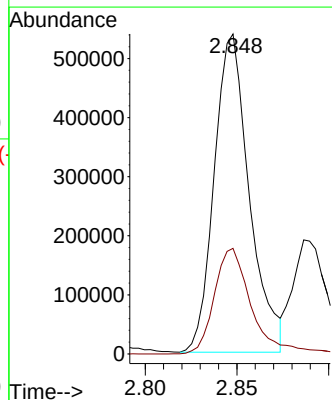
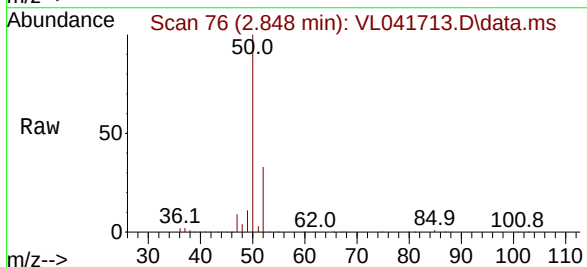
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

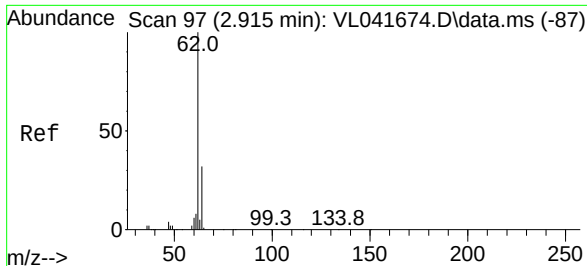
Tgt Ion: 51 Resp: 1285062  
Ion Ratio Lower Upper  
51 100  
67 18.0 13.9 20.9



#4  
Chloromethane  
Concen: 9.146 ppbv  
RT: 2.848 min Scan# 76  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 50 Resp: 716415  
Ion Ratio Lower Upper  
50 100  
52 33.2 24.9 37.3





#5

Vinyl Chloride

Concen: 9.680 ppbv

RT: 2.954 min Scan# 1

Delta R.T. 0.006 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

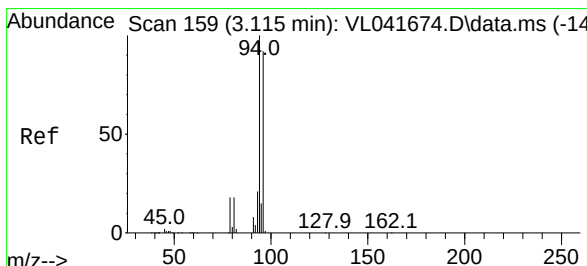
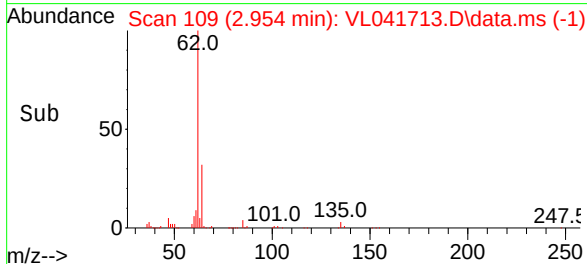
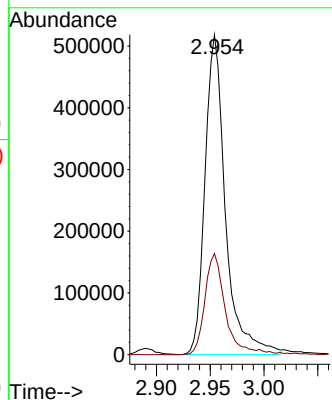
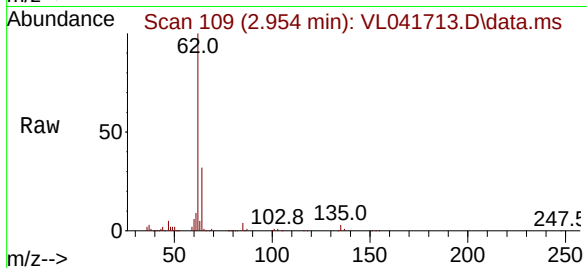
VL1121ABS01

Tgt Ion: 62 Resp: 682024

Ion Ratio Lower Upper

62 100

64 31.6 25.4 38.2



#6

Bromomethane

Concen: 8.138 ppbv

RT: 3.153 min Scan# 171

Delta R.T. 0.006 min

Lab File: VL041713.D

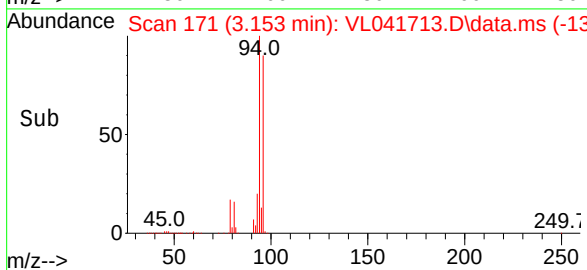
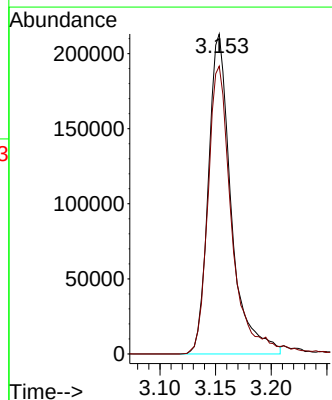
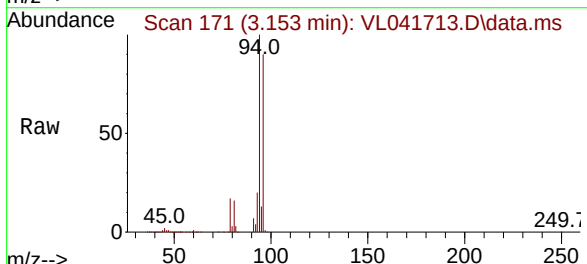
Acq: 21 Nov 2024 10:16

Tgt Ion: 94 Resp: 304189

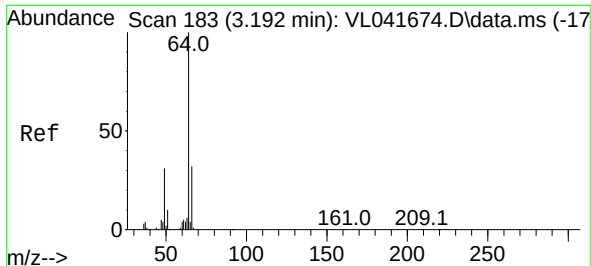
Ion Ratio Lower Upper

94 100

96 90.0 73.4 110.2



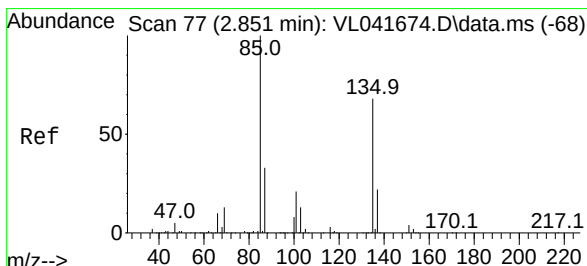
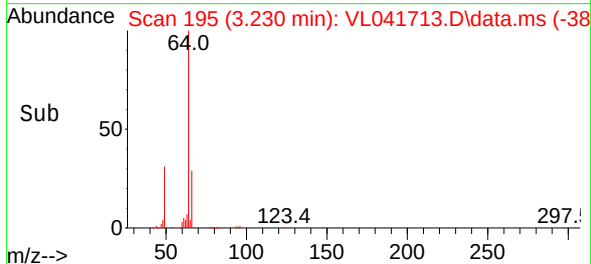
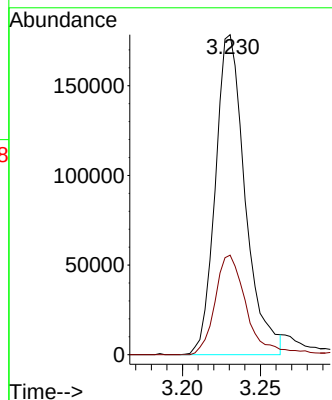
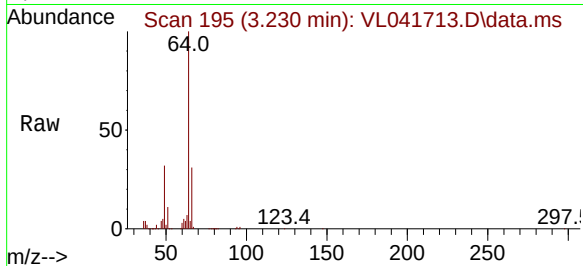




#7  
Chloroethane  
Concen: 9.227 ppbv  
RT: 3.230 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

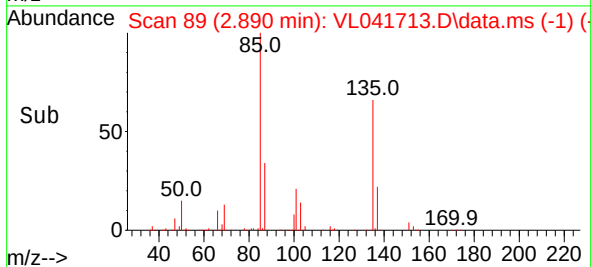
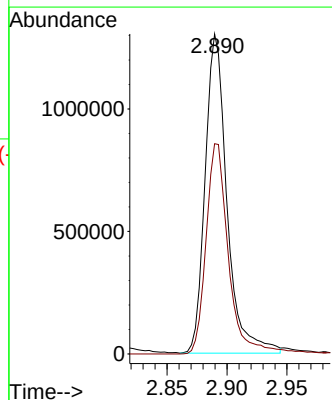
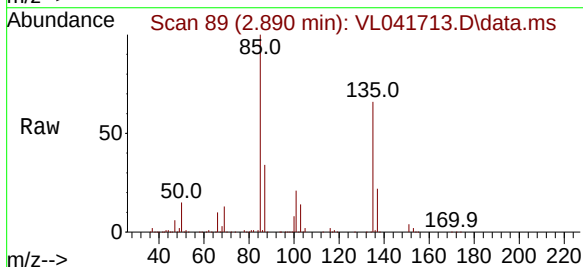
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1121ABS01

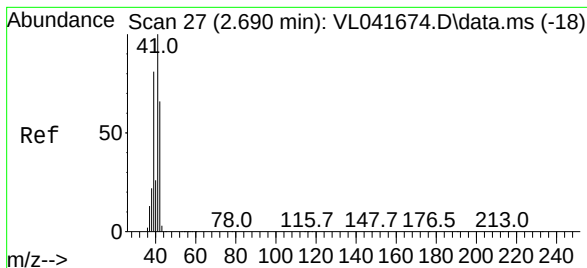
Tgt Ion: 64 Resp: 237287  
Ion Ratio Lower Upper  
64 100  
66 31.1 25.9 38.9



#8  
Dichlorotetrafluoroethane  
Concen: 9.041 ppbv  
RT: 2.890 min Scan# 89  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 85 Resp: 1655625  
Ion Ratio Lower Upper  
85 100  
135 68.5 55.5 83.3





#9

Propene

Concen: 9.138 ppbv

RT: 2.729 min Scan# 30

Delta R.T. 0.006 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_1

ClientSampleId :

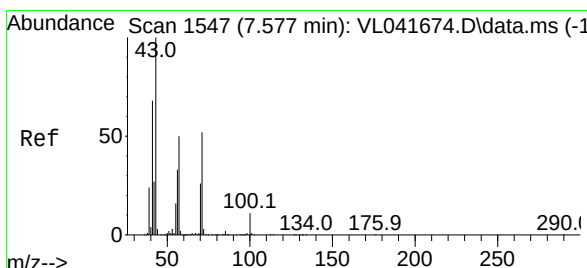
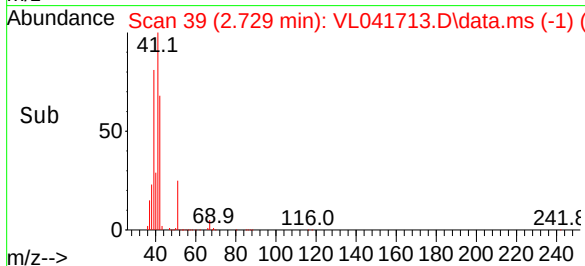
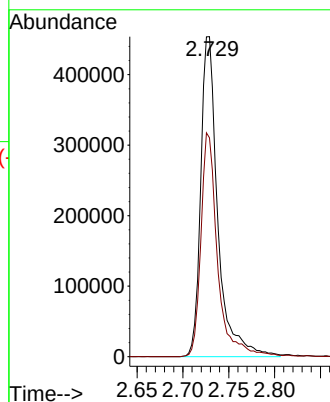
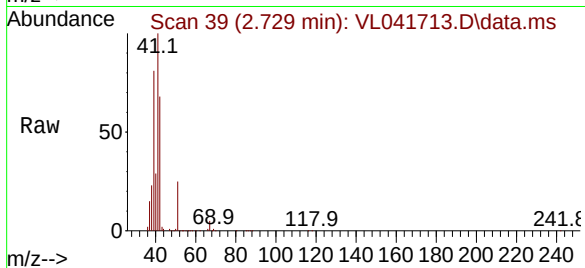
VL1121ABS01

Tgt Ion: 41 Resp: 588833

Ion Ratio Lower Upper

41 100

42 68.8 55.0 82.4



#10

Heptane

Concen: 10.124 ppbv

RT: 7.613 min Scan# 1558

Delta R.T. 0.003 min

Lab File: VL041713.D

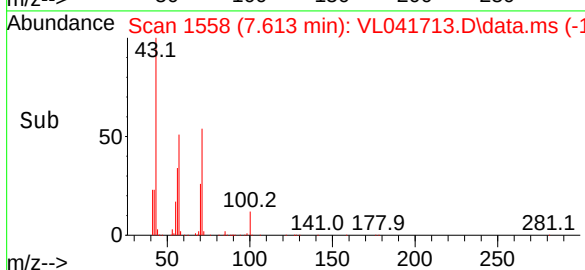
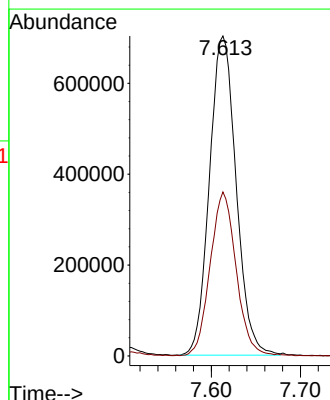
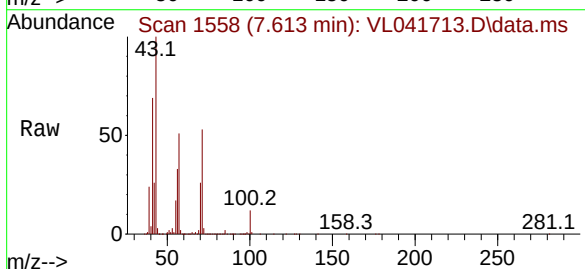
Acq: 21 Nov 2024 10:16

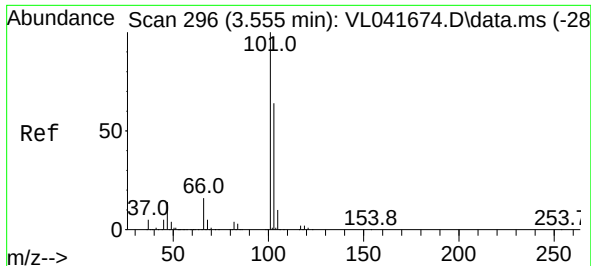
Tgt Ion: 43 Resp: 1461776

Ion Ratio Lower Upper

43 100

57 50.4 40.0 60.0

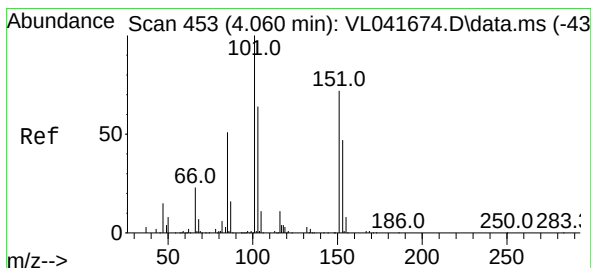
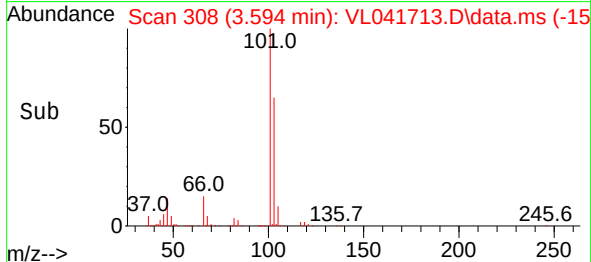
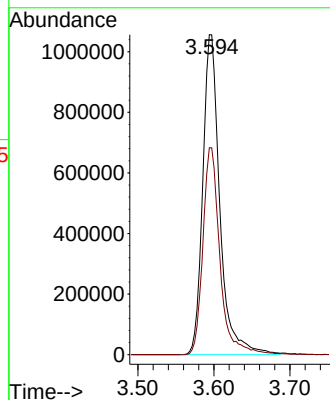
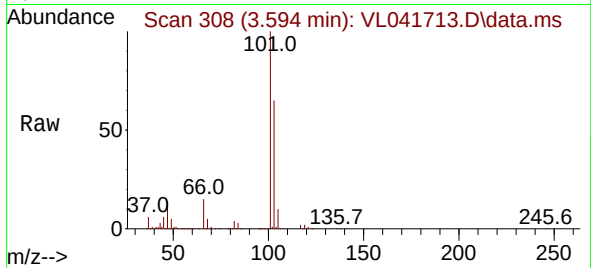




#11  
 Trichlorofluoromethane  
 Concen: 9.226 ppbv  
 RT: 3.594 min Scan# 308  
 Delta R.T. 0.003 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

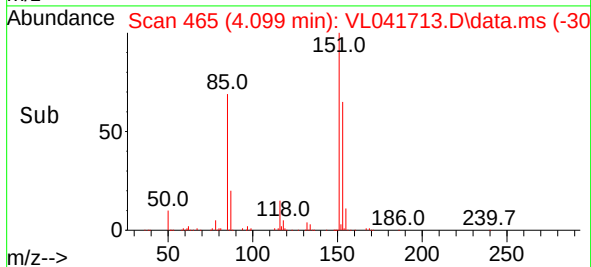
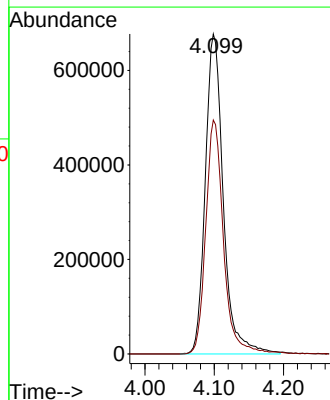
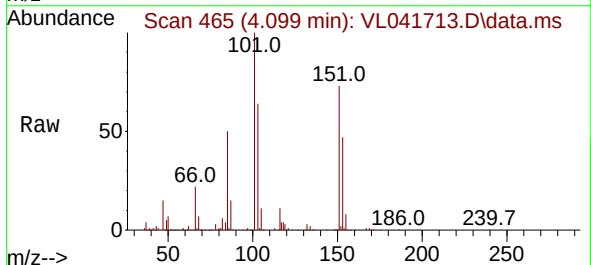
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1121ABS01

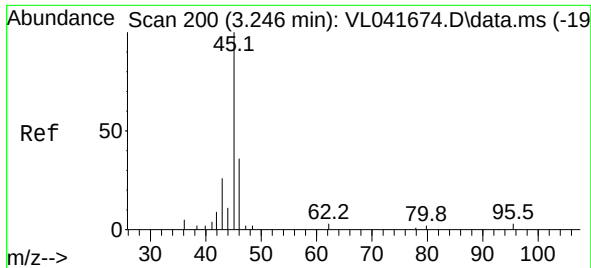
Tgt Ion:101 Resp: 1648437  
 Ion Ratio Lower Upper  
 101 100  
 103 64.7 51.0 76.6



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.395 ppbv  
 RT: 4.099 min Scan# 465  
 Delta R.T. 0.003 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

Tgt Ion:101 Resp: 1220108  
 Ion Ratio Lower Upper  
 101 100  
 151 72.5 59.1 88.7

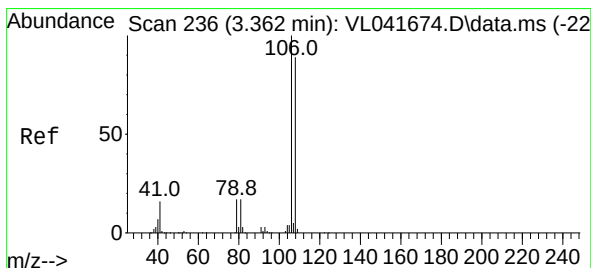
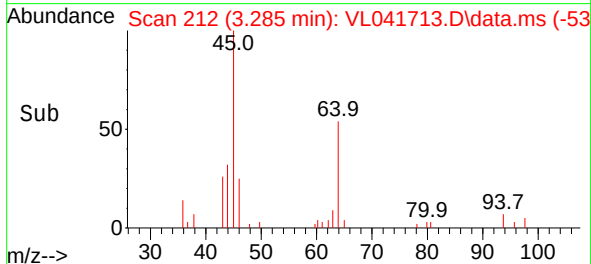
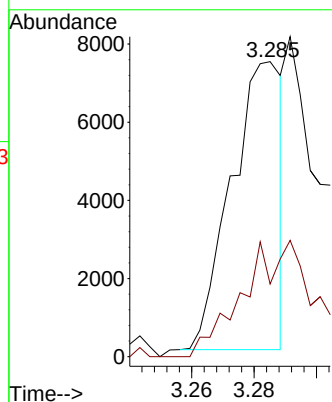
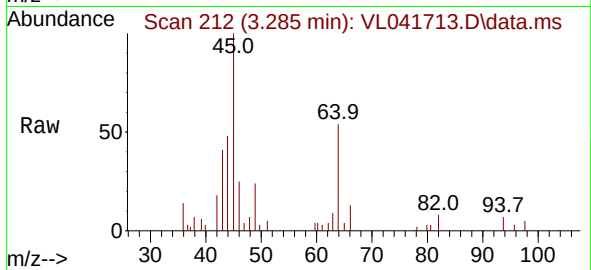




#13  
Ethanol  
Concen: 2.089 ppbv  
RT: 3.285 min Scan# 212  
Delta R.T. 0.010 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

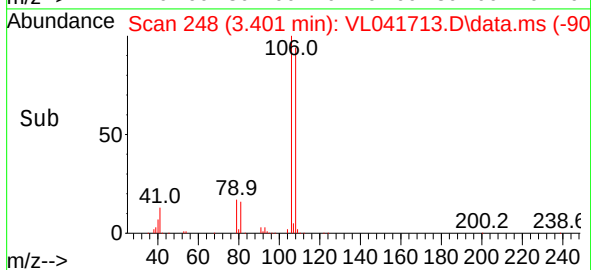
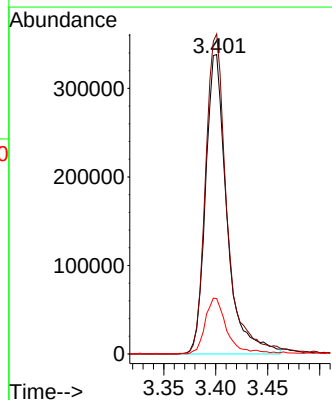
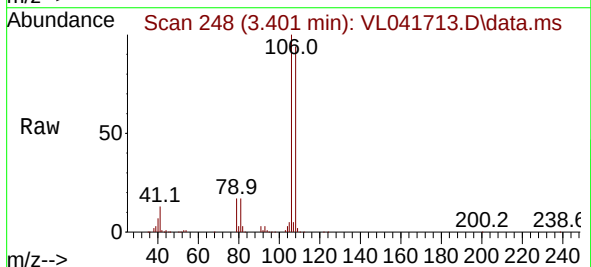
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

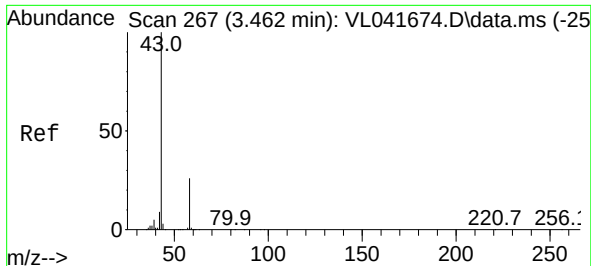
Tgt Ion: 45 Resp: 8243  
Ion Ratio Lower Upper  
45 100  
46 77.4 13.8 55.2#



#14  
Bromoethene  
Concen: 9.269 ppbv  
RT: 3.401 min Scan# 248  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion:108 Resp: 483950  
Ion Ratio Lower Upper  
108 100  
106 108.8 88.6 133.0  
79 19.3 15.6 23.4





#15

Acetone

Concen: 8.766 ppbv

RT: 3.501 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

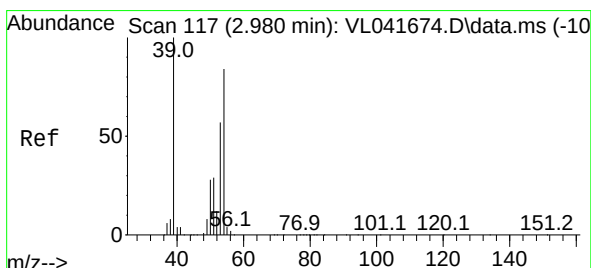
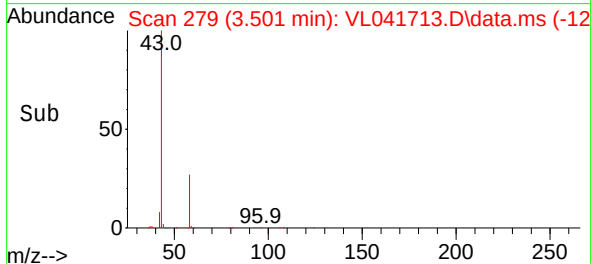
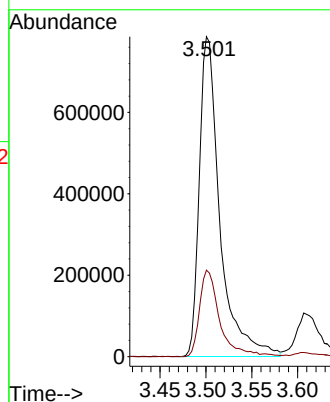
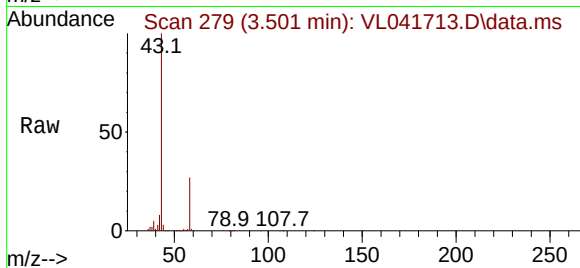
VL1121ABS01

Tgt Ion: 43 Resp: 1224405

Ion Ratio Lower Upper

43 100

58 26.9 21.4 32.0



#16

1,3-Butadiene

Concen: 9.758 ppbv

RT: 3.018 min Scan# 129

Delta R.T. 0.006 min

Lab File: VL041713.D

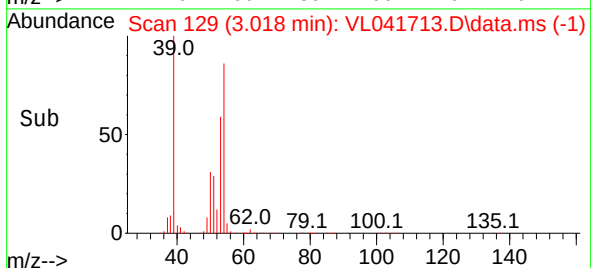
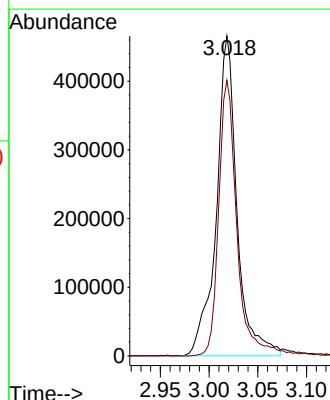
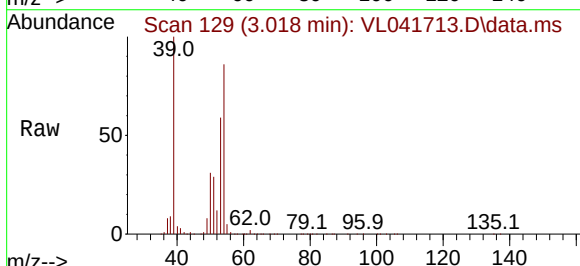
Acq: 21 Nov 2024 10:16

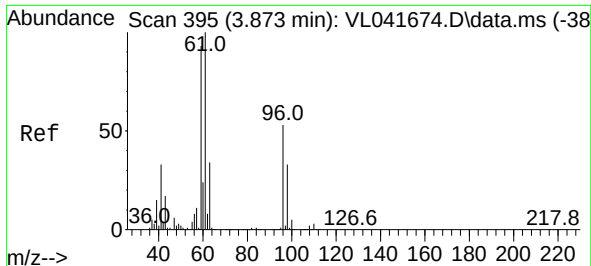
Tgt Ion: 39 Resp: 687757

Ion Ratio Lower Upper

39 100

54 76.8 61.3 91.9





#17

tert-Butyl alcohol

Concen: 9.374 ppbv

RT: 3.912 min Scan# 407

Delta R.T. 0.006 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

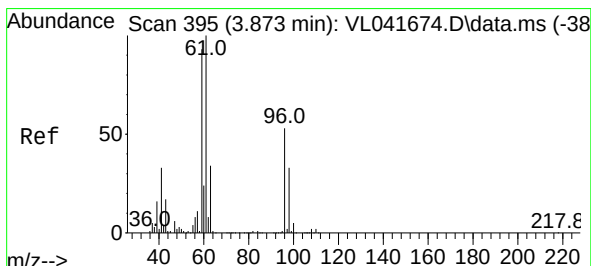
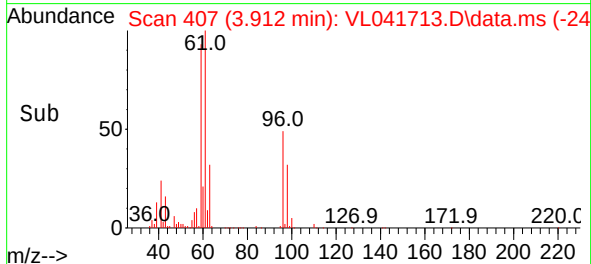
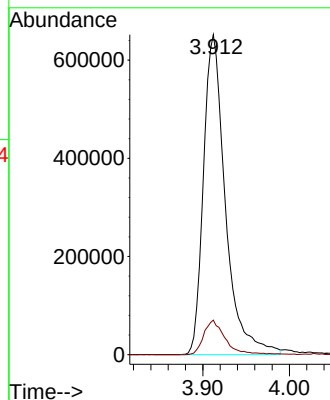
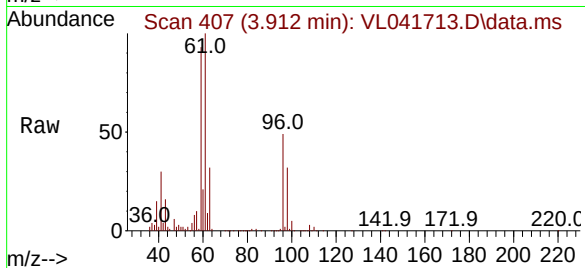
VL1121ABS01

Tgt Ion: 59 Resp: 1149012

Ion Ratio Lower Upper

59 100

57 10.7 8.5 12.7



#18

1,1-Dichloroethene

Concen: 9.400 ppbv

RT: 3.915 min Scan# 408

Delta R.T. 0.006 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

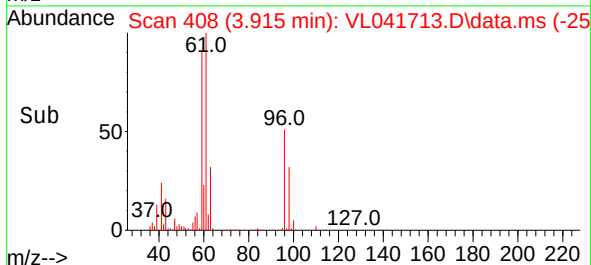
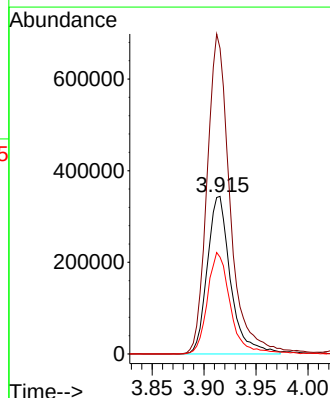
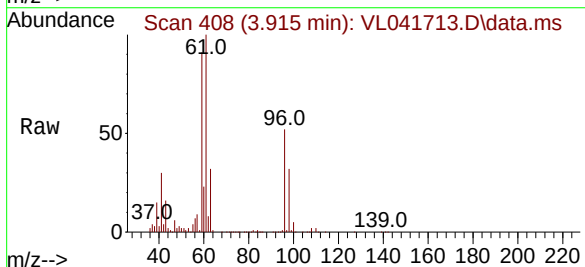
Tgt Ion: 96 Resp: 535425

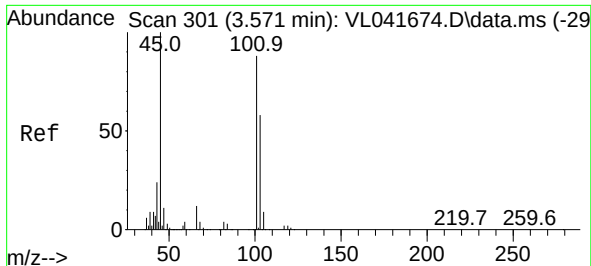
Ion Ratio Lower Upper

96 100

61 193.9 150.7 226.1

98 61.4 49.4 74.2

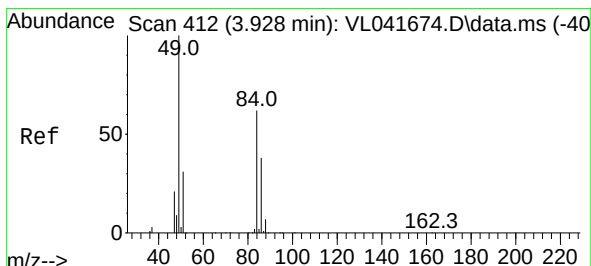
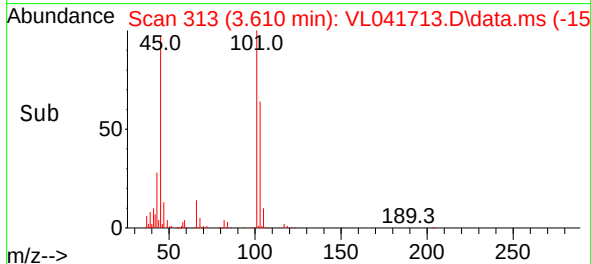
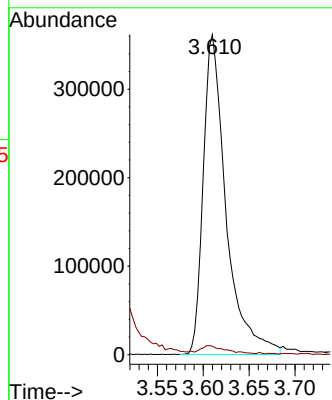
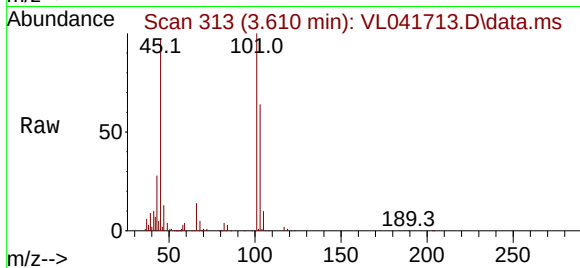




#19  
Isopropyl Alcohol  
Concen: 9.374 ppbv  
RT: 3.610 min Scan# 313  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

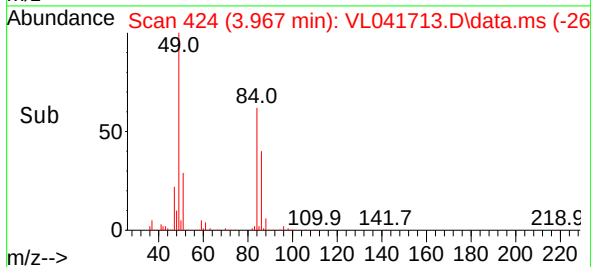
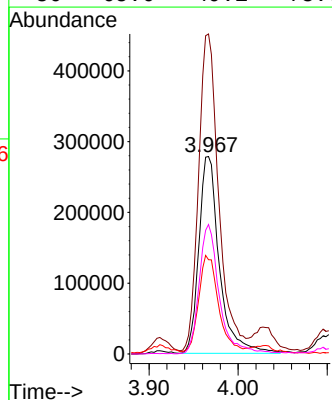
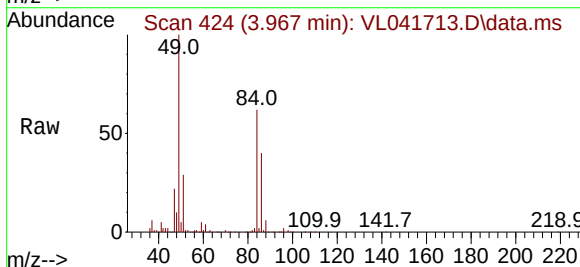
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

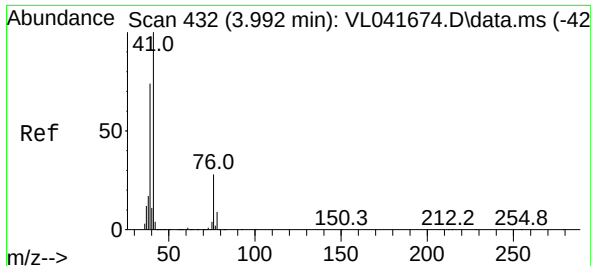
Tgt Ion: 45 Resp: 625847  
Ion Ratio Lower Upper  
45 100  
58 3.0 2.5 3.7



#20  
Methylene Chloride  
Concen: 8.668 ppbv  
RT: 3.967 min Scan# 424  
Delta R.T. 0.006 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 84 Resp: 445518  
Ion Ratio Lower Upper  
84 100  
49 161.0 129.7 194.5  
51 46.7 39.8 59.6  
86 65.6 49.1 73.7





#21

Allyl Chloride

Concen: 9.652 ppbv

RT: 4.031 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

VL1121ABS01

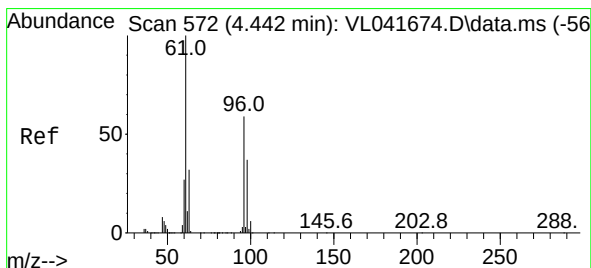
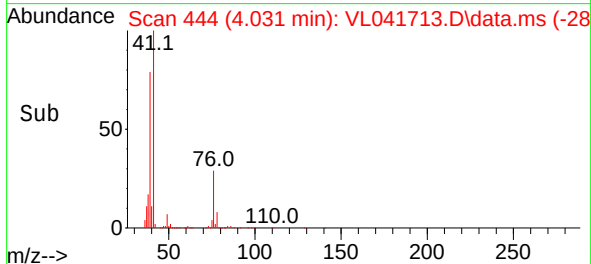
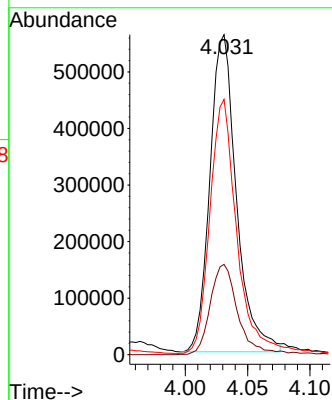
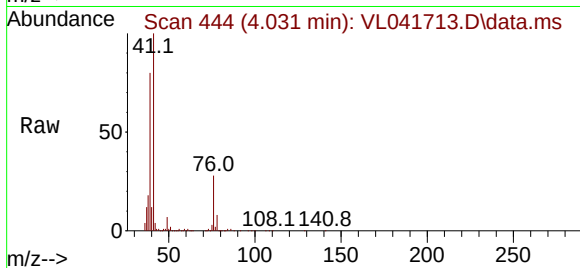
Tgt Ion: 41 Resp: 833062

Ion Ratio Lower Upper

41 100

76 30.0 23.5 35.3

39 82.1 63.0 94.4



#22

trans-1,2-Dichloroethene

Concen: 9.479 ppbv

RT: 4.478 min Scan# 583

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

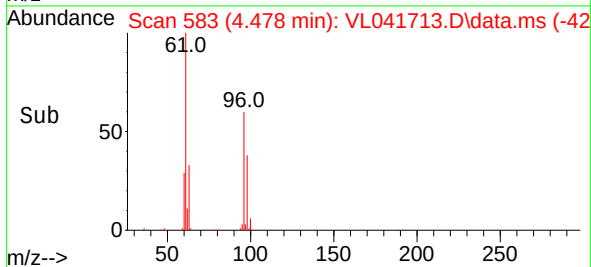
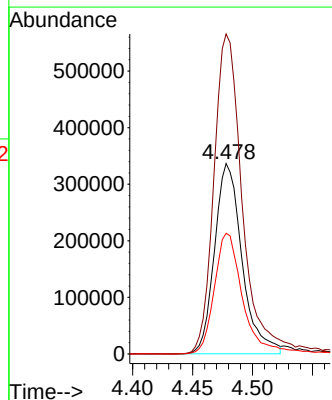
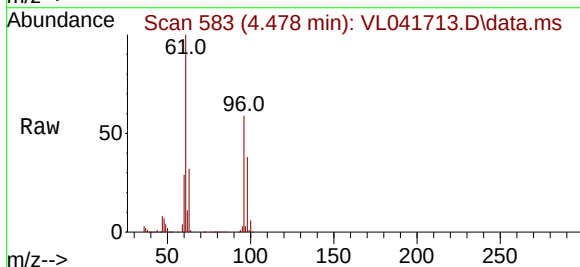
Tgt Ion: 96 Resp: 536875

Ion Ratio Lower Upper

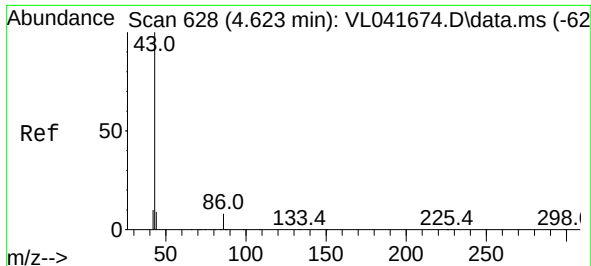
96 100

61 168.2 134.5 201.7

98 63.2 49.6 74.4





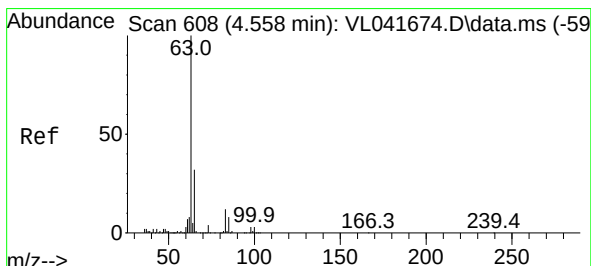
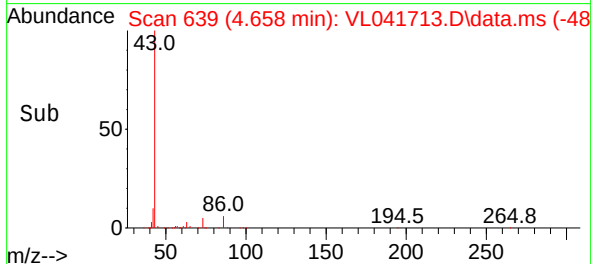
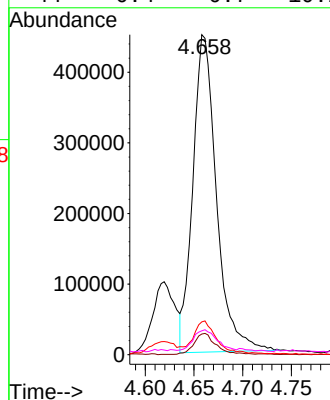
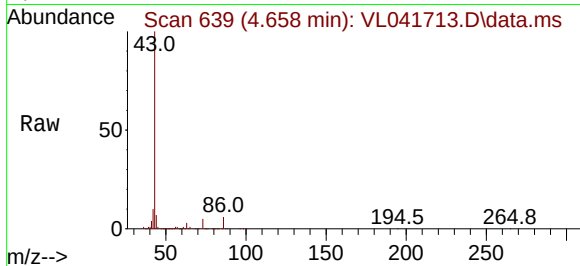


#23  
 Vinyl Acetate  
 Concen: 12.295 ppbv  
 RT: 4.658 min Scan# 61  
 Delta R.T. 0.003 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL1121ABS01

Tgt Ion: 43 Resp: 757071

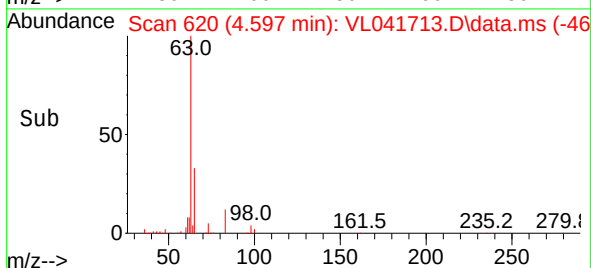
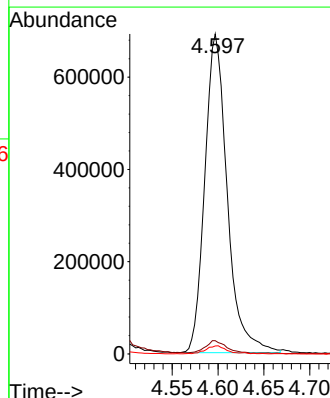
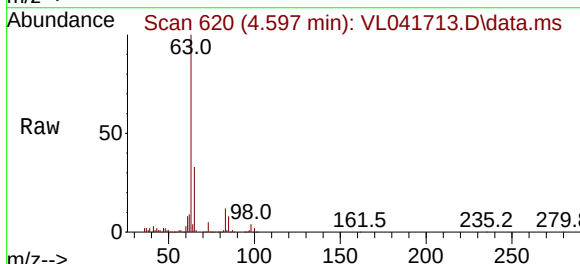
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.5   | 5.3   | 7.9   |
| 42  | 10.1  | 8.5   | 12.7  |
| 44  | 6.4   | 6.7   | 10.1  |

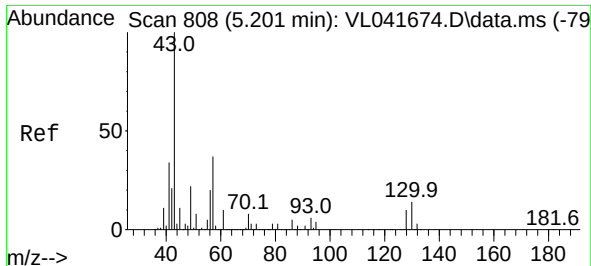


#24  
 1,1-Dichloroethane  
 Concen: 9.307 ppbv  
 RT: 4.597 min Scan# 620  
 Delta R.T. 0.003 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

Tgt Ion: 63 Resp: 1176486

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.0   | 1.8   | 5.4   |
| 100 | 2.4   | 1.4   | 4.2   |





#25

Ethyl Acetate

Concen: 9.267 ppbv

RT: 5.237 min Scan# 819

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_1

ClientSampleId :

VL1121ABS01

Tgt Ion: 43 Resp: 2679235

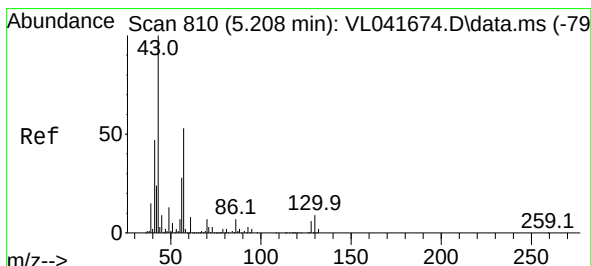
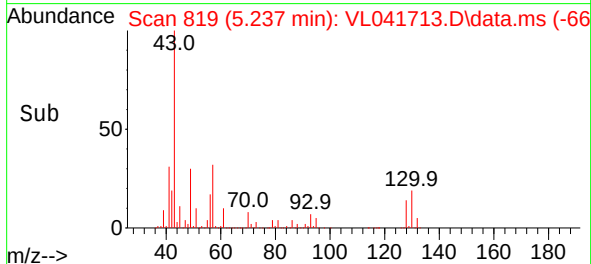
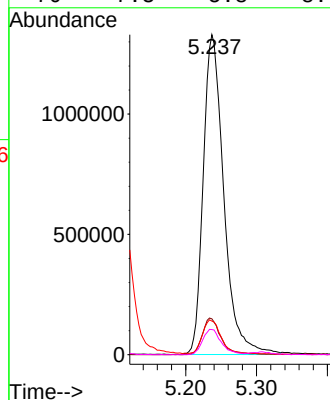
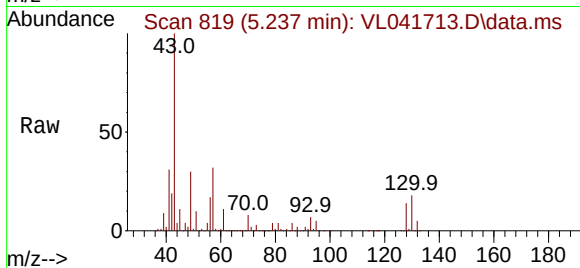
Ion Ratio Lower Upper

43 100

45 10.5 8.6 13.0

61 10.1 8.4 12.6

70 7.3 5.8 8.6



#26

Hexane

Concen: 9.591 ppbv

RT: 5.246 min Scan# 822

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Tgt Ion: 57 Resp: 1065415

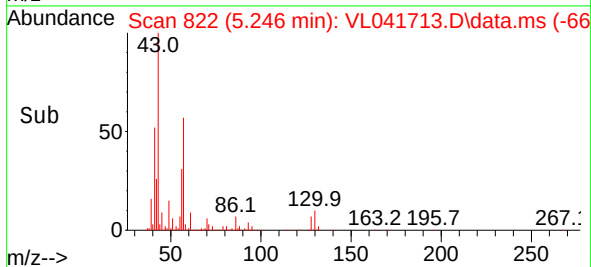
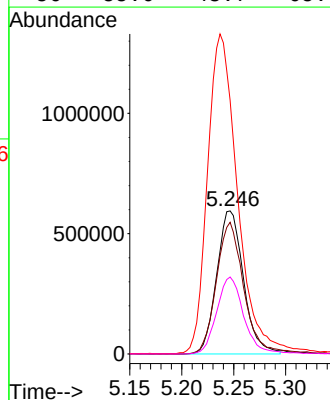
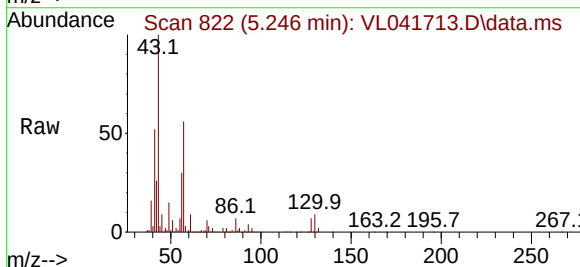
Ion Ratio Lower Upper

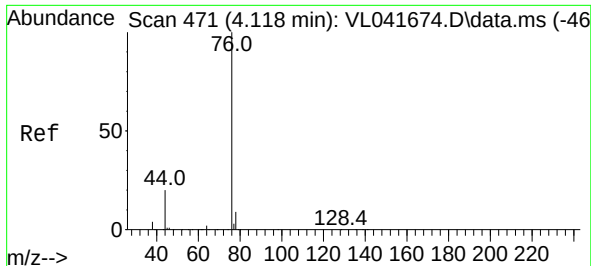
57 100

41 95.7 76.1 114.1

43 252.9 207.0 310.6

56 55.0 43.7 65.5

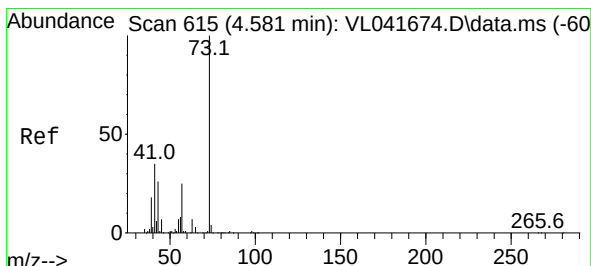
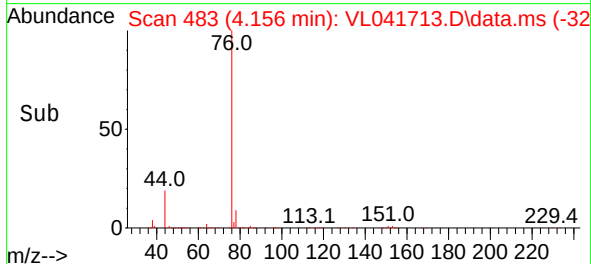
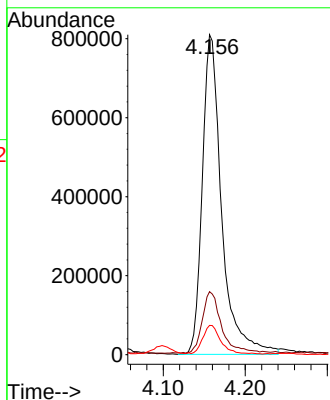
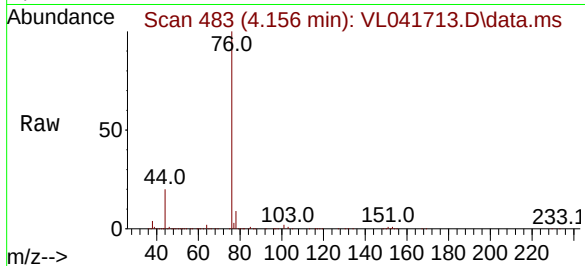




#27  
Carbon Disulfide  
Concen: 10.640 ppbv  
RT: 4.156 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

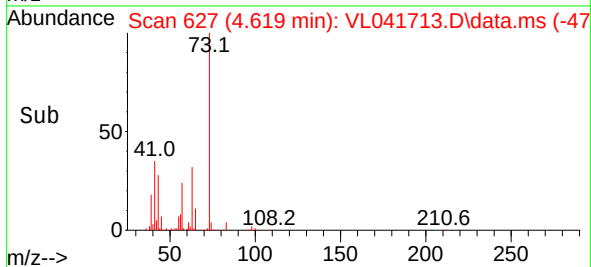
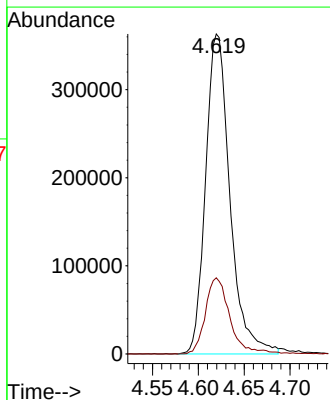
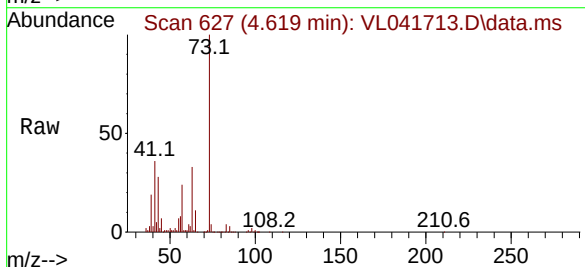
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1121ABS01

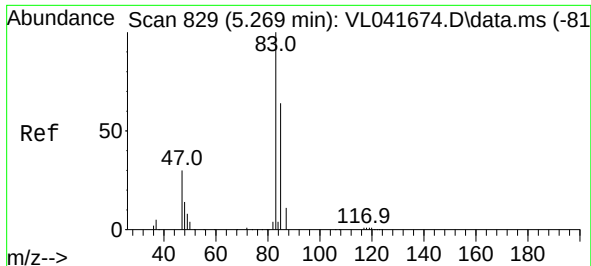
Tgt Ion: 76 Resp: 1327851  
Ion Ratio Lower Upper  
76 100  
44 19.4 15.8 23.8  
78 9.2 7.5 11.3



#28  
Methyl tert-Butyl Ether  
Concen: 9.371 ppbv  
RT: 4.619 min Scan# 627  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 73 Resp: 670312  
Ion Ratio Lower Upper  
73 100  
57 24.2 19.6 29.4





#29

Chloroform

Concen: 9.236 ppbv

RT: 5.308 min Scan# 84

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_1

ClientSampleId :

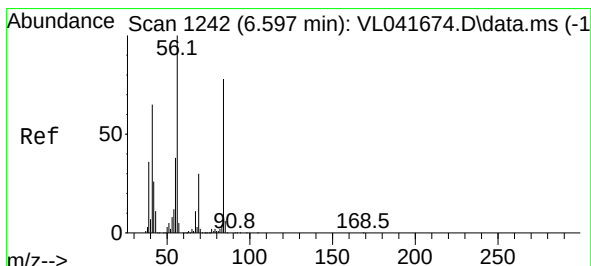
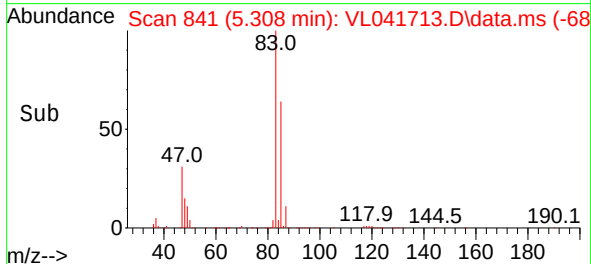
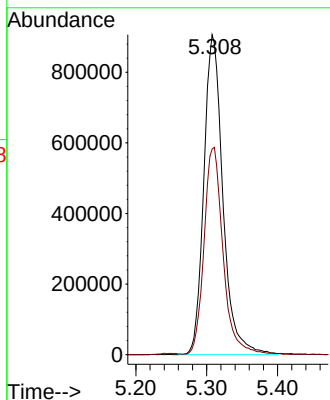
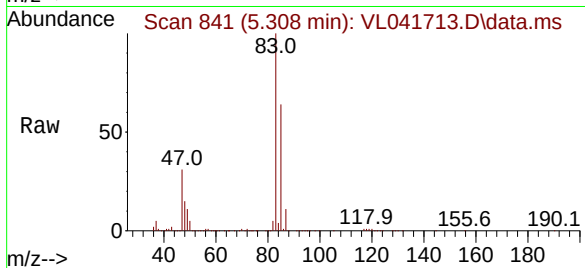
VL1121ABS01

Tgt Ion: 83 Resp: 1693486

Ion Ratio Lower Upper

83 100

85 64.0 51.1 76.7



#30

Cyclohexane

Concen: 9.550 ppbv

RT: 6.635 min Scan# 1254

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

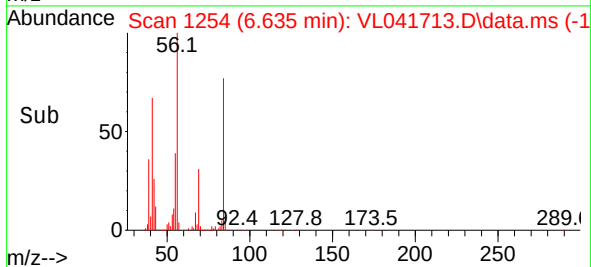
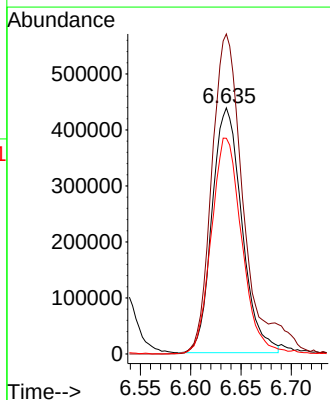
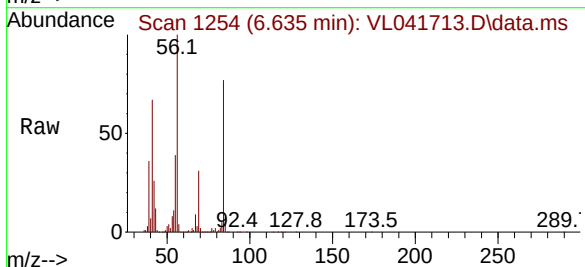
Tgt Ion: 84 Resp: 903309

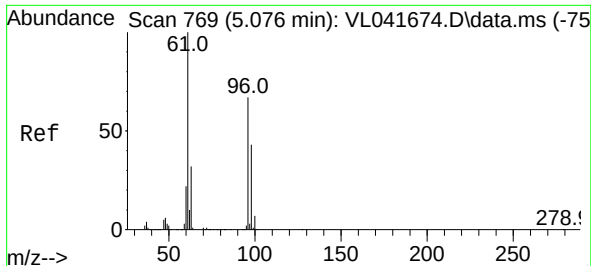
Ion Ratio Lower Upper

84 100

56 140.7 110.8 166.2

41 90.5 70.0 105.0





#31

cis-1,2-Dichloroethene

Concen: 9.755 ppbv

RT: 5.111 min Scan# 71

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

VL1121ABS01

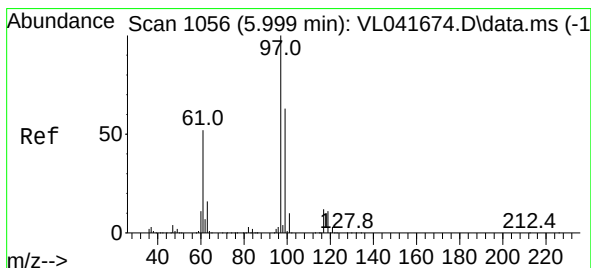
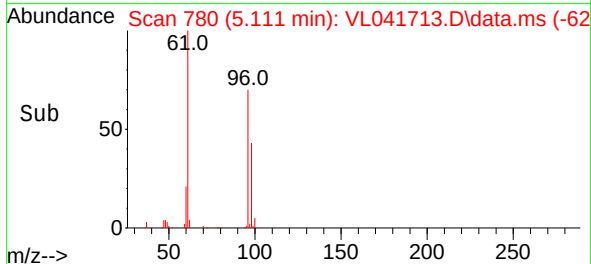
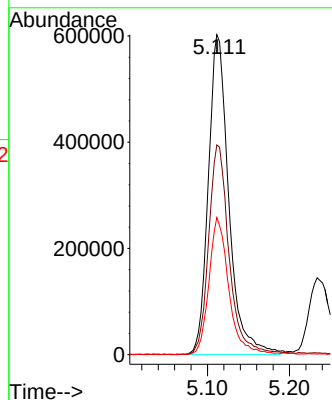
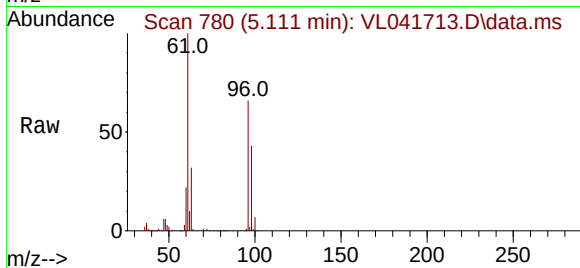
Tgt Ion: 61 Resp: 1042430

Ion Ratio Lower Upper

61 100

96 65.6 53.4 80.2

98 42.8 34.0 51.0



#32

1,1,1-Trichloroethane

Concen: 9.978 ppbv

RT: 6.037 min Scan# 1068

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

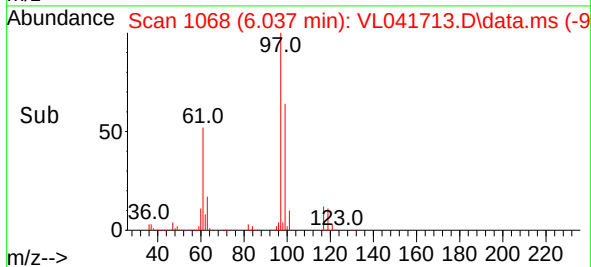
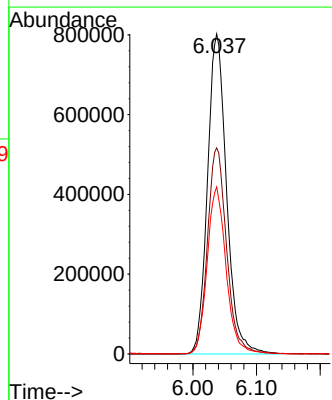
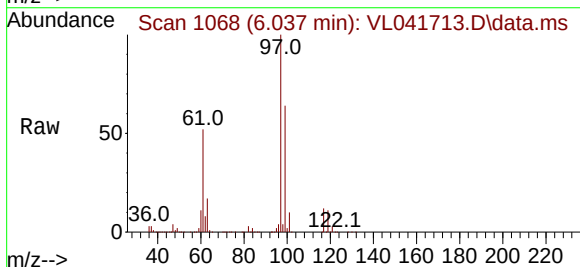
Tgt Ion: 97 Resp: 1669061

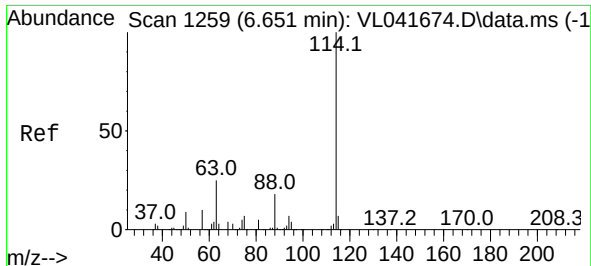
Ion Ratio Lower Upper

97 100

99 64.7 51.4 77.2

61 52.1 41.7 62.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.687 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

VL1121ABS01

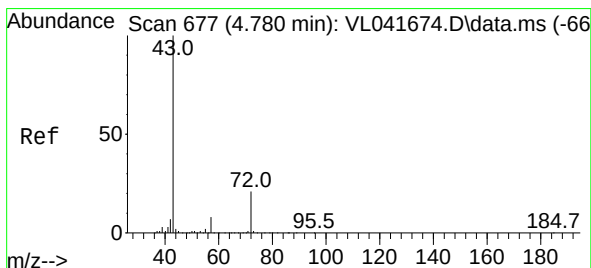
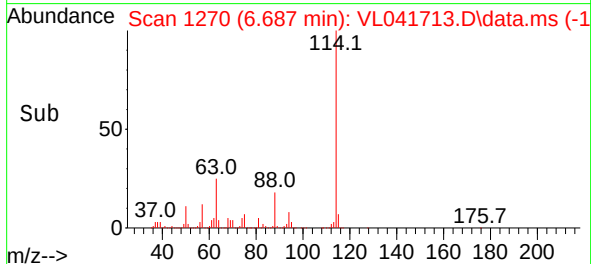
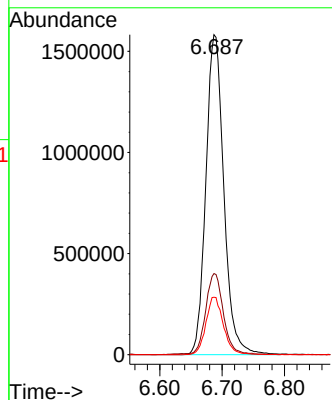
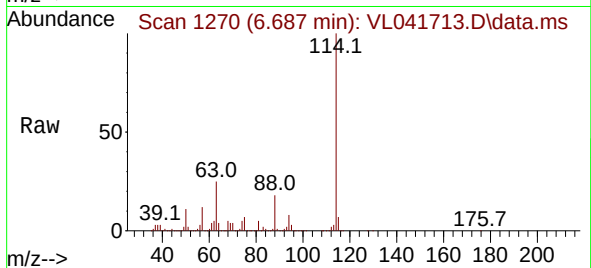
Tgt Ion:114 Resp: 3168983

Ion Ratio Lower Upper

114 100

63 25.4 20.3 30.5

88 17.6 14.2 21.4



#34

2-Butanone

Concen: 8.985 ppbv

RT: 4.819 min Scan# 689

Delta R.T. 0.003 min

Lab File: VL041713.D

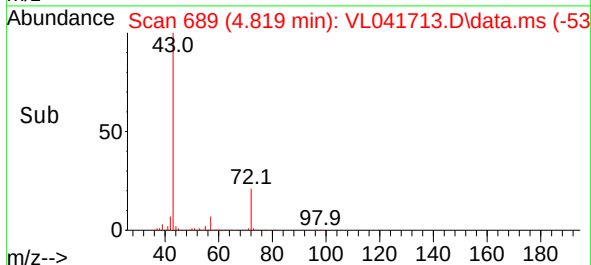
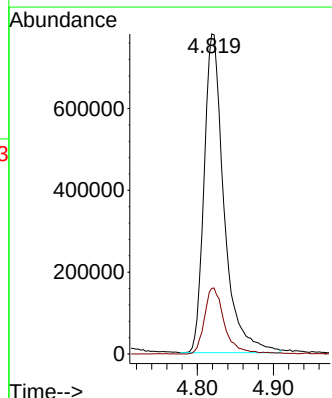
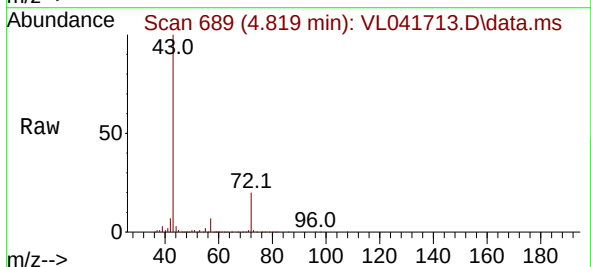
Acq: 21 Nov 2024 10:16

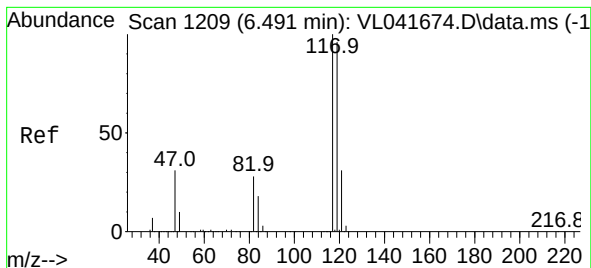
Tgt Ion: 43 Resp: 1417727

Ion Ratio Lower Upper

43 100

72 21.1 17.4 26.0





#35

Carbon Tetrachloride

Concen: 10.418 ppbv

RT: 6.529 min Scan# 1182

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_1

ClientSampleId :

VL1121ABS01

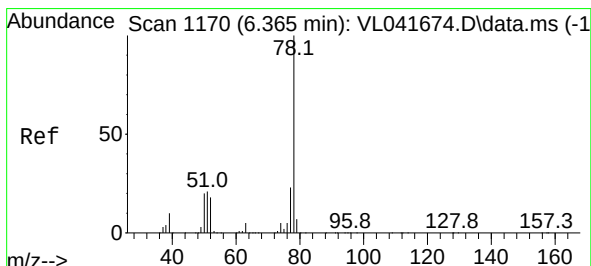
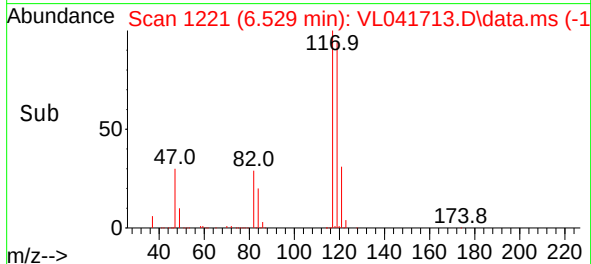
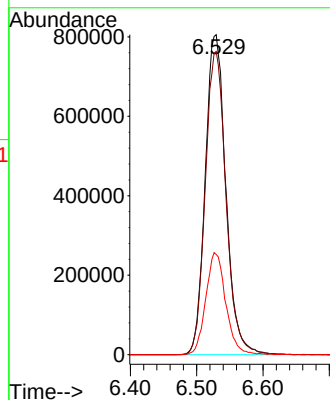
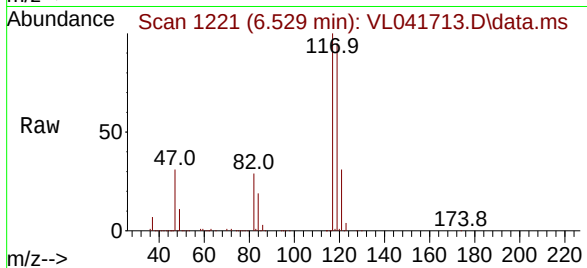
Tgt Ion:117 Resp: 1741838

Ion Ratio Lower Upper

117 100

119 94.7 77.2 115.8

121 31.3 25.0 37.4



#36

Benzene

Concen: 9.847 ppbv

RT: 6.404 min Scan# 1182

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

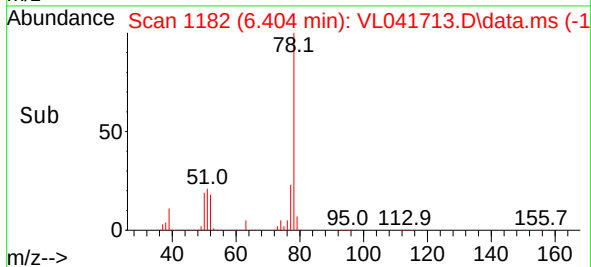
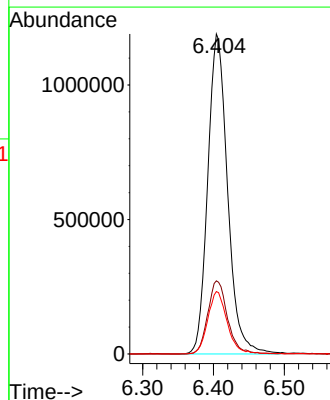
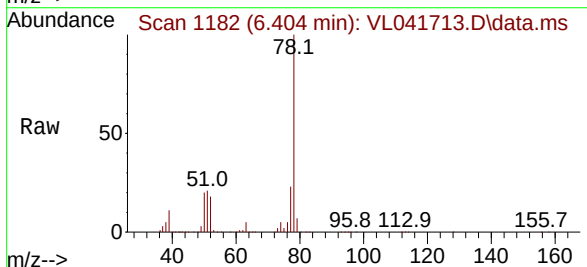
Tgt Ion: 78 Resp: 2312069

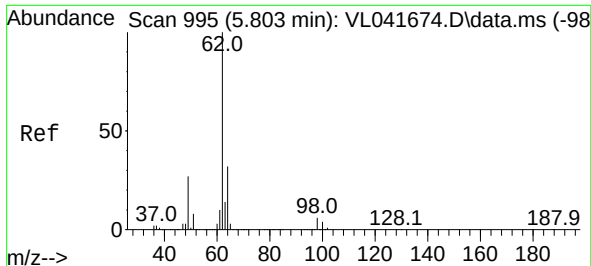
Ion Ratio Lower Upper

78 100

77 22.8 18.5 27.7

50 19.5 15.6 23.4

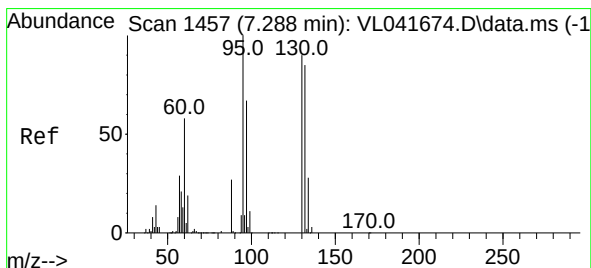
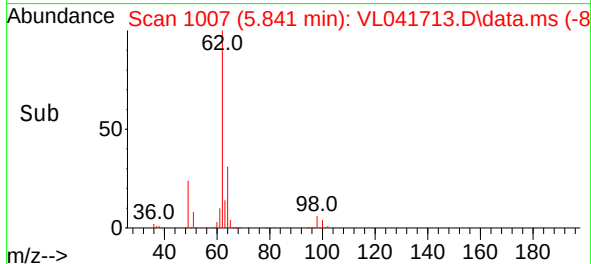
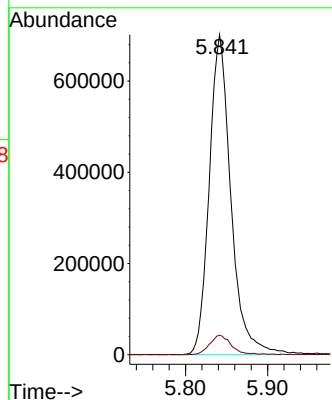
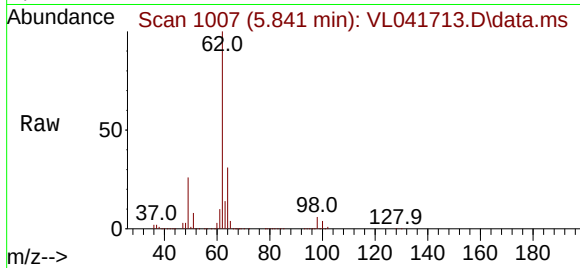




#37  
1,2-Dichloroethane  
Concen: 9.693 ppbv  
RT: 5.841 min Scan# 1007  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

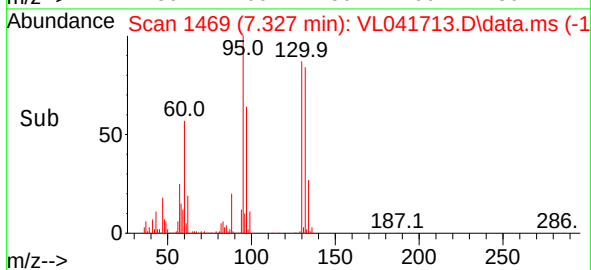
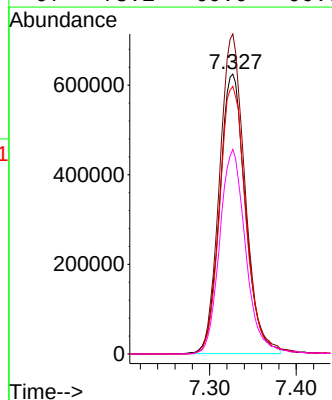
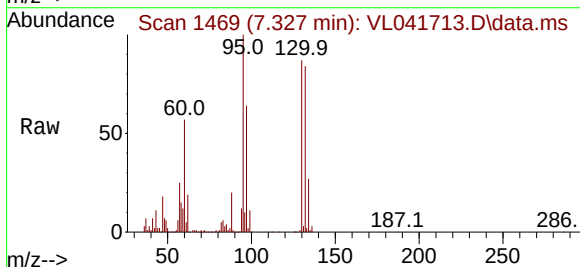
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

Tgt Ion: 62 Resp: 1284047  
Ion Ratio Lower Upper  
62 100  
98 6.3 5.2 7.8

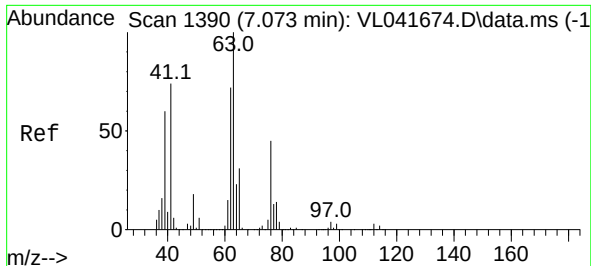


#38  
Trichloroethene  
Concen: 14.303 ppbv  
RT: 7.327 min Scan# 1469  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion:130 Resp: 1289883  
Ion Ratio Lower Upper  
130 100  
95 114.5 89.1 133.7  
132 95.7 75.7 113.5  
97 73.1 60.0 90.0







#39

1,2-Dichloropropane

Concen: 9.610 ppbv

RT: 7.105 min Scan# 14

Delta R.T. -0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_1

ClientSampleId :

VL1121ABS01

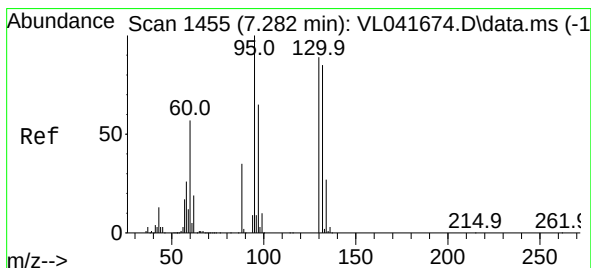
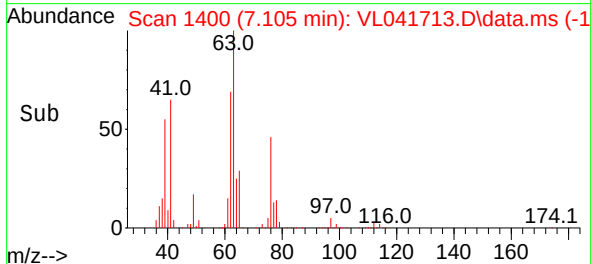
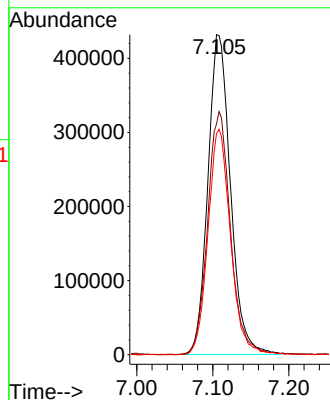
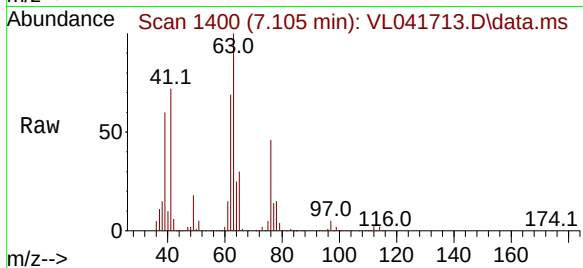
Tgt Ion: 63 Resp: 891656

Ion Ratio Lower Upper

63 100

41 72.0 59.1 88.7

62 69.2 57.7 86.5



#40

1,4-Dioxane

Concen: 10.912 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Tgt Ion: 88 Resp: 363295

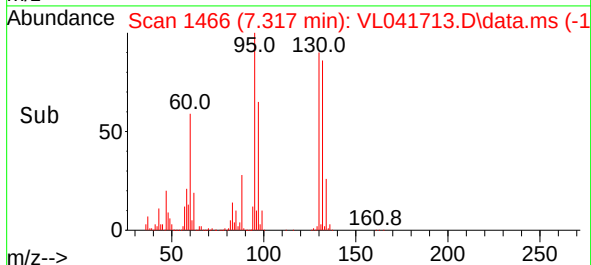
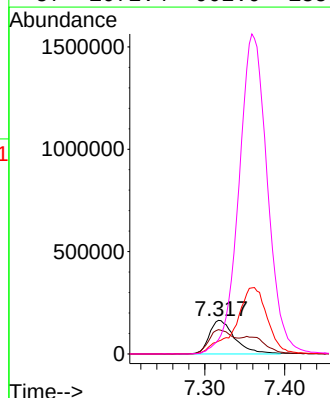
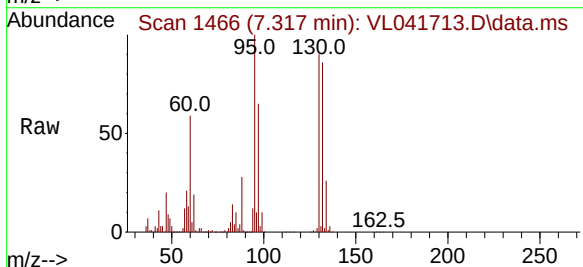
Ion Ratio Lower Upper

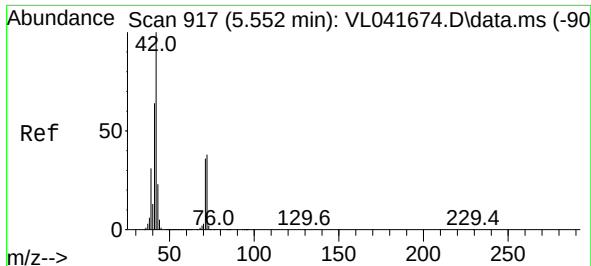
88 100

58 120.6 101.4 152.2

43 249.9 208.0 312.0

57 1072.4 902.9 1354.3





#41

Tetrahydrofuran

Concen: 10.375 ppbv

RT: 5.590 min Scan# 917

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

VL1121ABS01

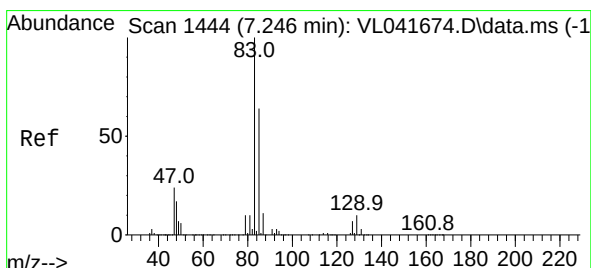
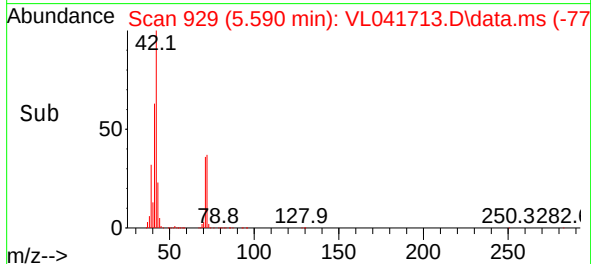
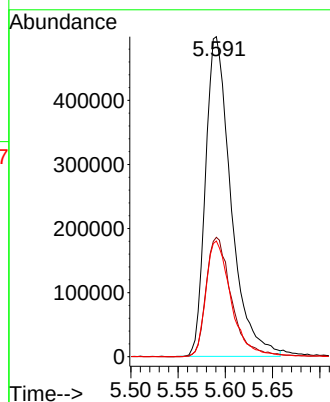
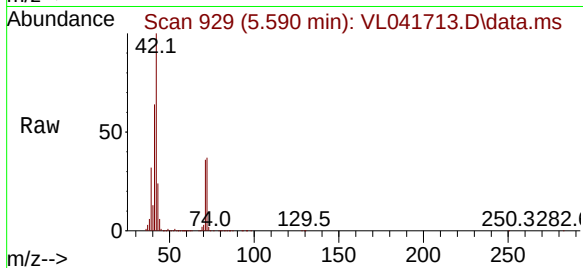
Tgt Ion: 42 Resp: 934965

Ion Ratio Lower Upper

42 100

72 37.8 29.8 44.6

71 36.3 29.4 44.2



#42

Bromodichloromethane

Concen: 9.994 ppbv

RT: 7.285 min Scan# 1456

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

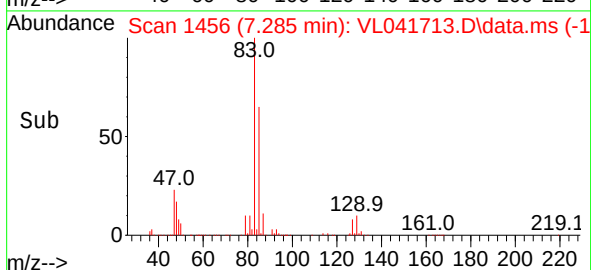
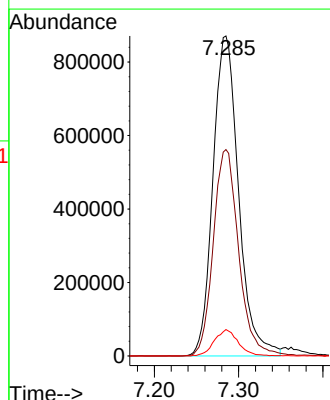
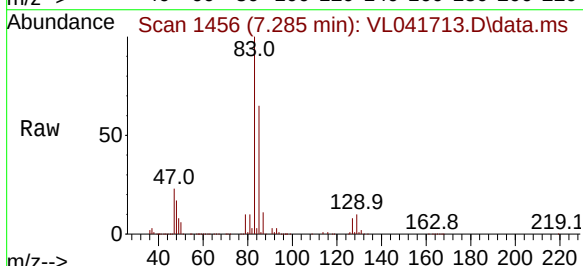
Tgt Ion: 83 Resp: 1839599

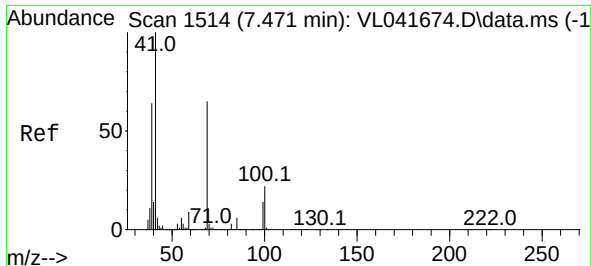
Ion Ratio Lower Upper

83 100

85 64.5 51.2 76.8

127 8.2 6.0 9.0





#43

Methyl Methacrylate

Concen: 10.937 ppbv

RT: 7.507 min Scan# 1479

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_1

ClientSampleId :

VL1121ABS01

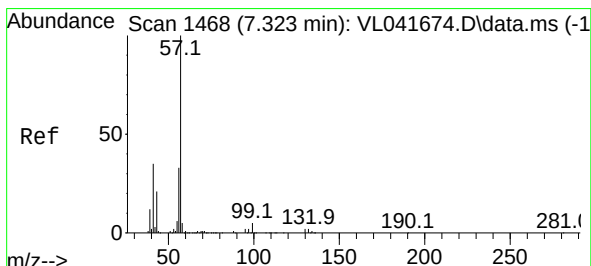
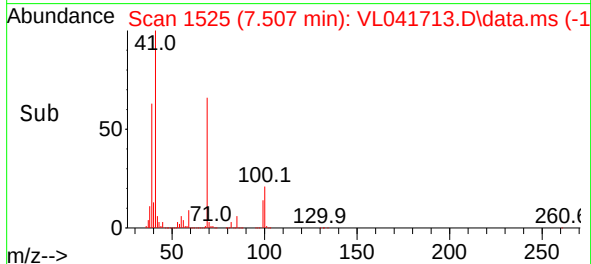
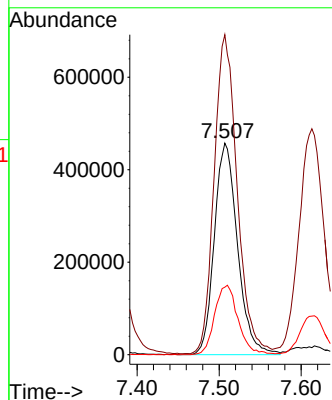
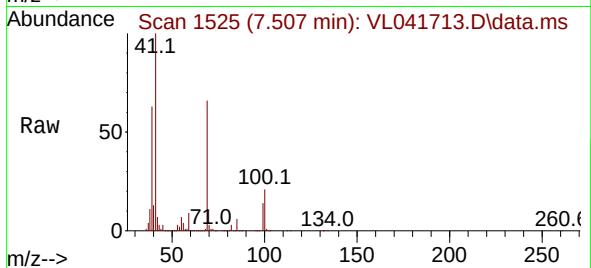
Tgt Ion: 69 Resp: 901641

Ion Ratio Lower Upper

69 100

41 150.0 119.8 179.6

100 33.1 27.3 40.9



#44

2,2,4-Trimethylpentane

Concen: 9.791 ppbv

RT: 7.359 min Scan# 1479

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

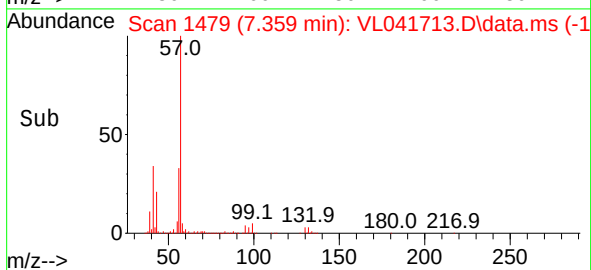
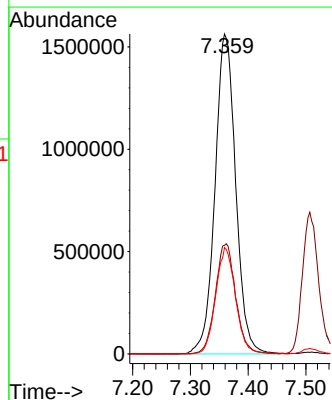
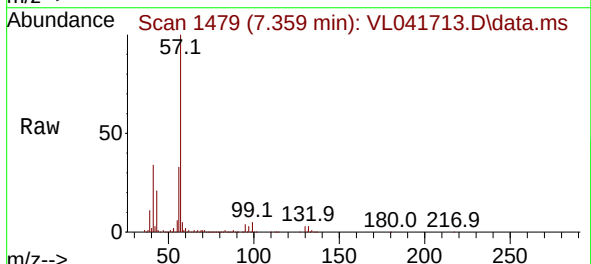
Tgt Ion: 57 Resp: 3894162

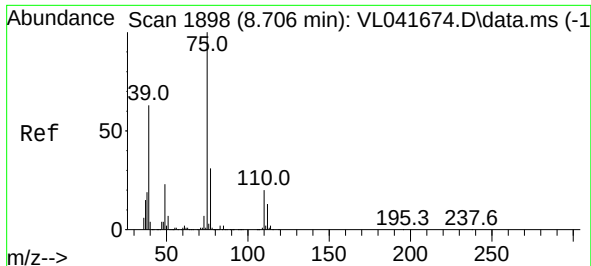
Ion Ratio Lower Upper

57 100

41 33.9 27.0 40.6

56 31.9 25.8 38.6





#45

t-1,3-Dichloropropene

Concen: 9.931 ppbv

RT: 8.745 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

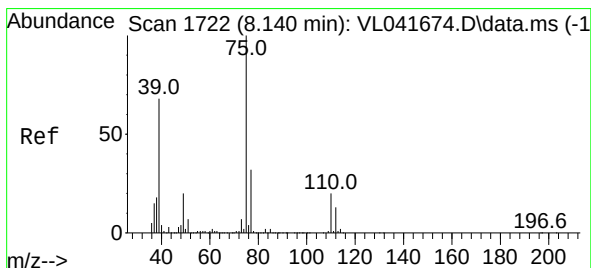
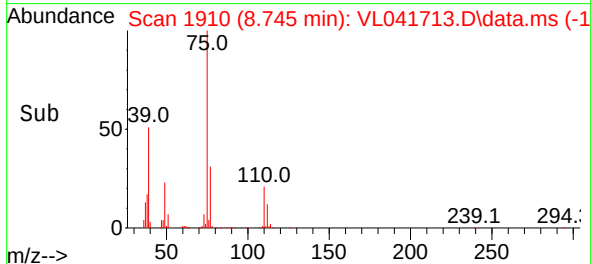
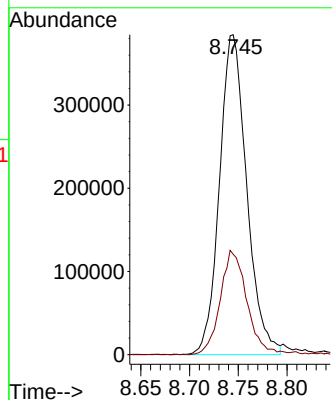
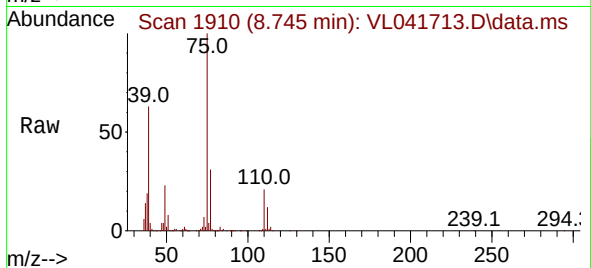
VL1121ABS01

Tgt Ion: 75 Resp: 748133

Ion Ratio Lower Upper

75 100

77 31.4 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 10.203 ppbv

RT: 8.179 min Scan# 1734

Delta R.T. 0.006 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

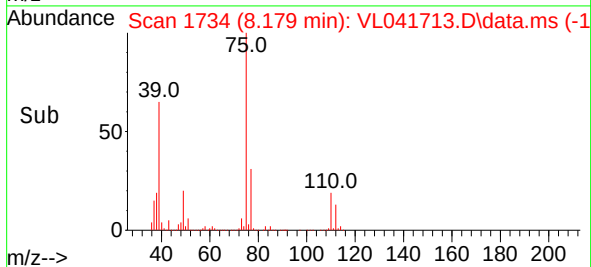
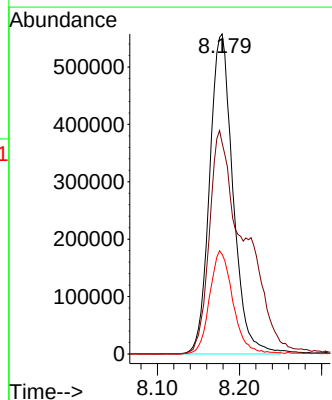
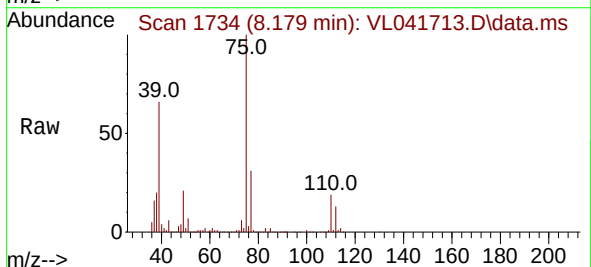
Tgt Ion: 75 Resp: 1103972

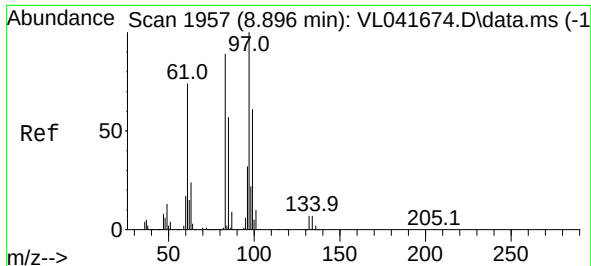
Ion Ratio Lower Upper

75 100

39 65.9 54.1 81.1

77 31.1 25.3 37.9

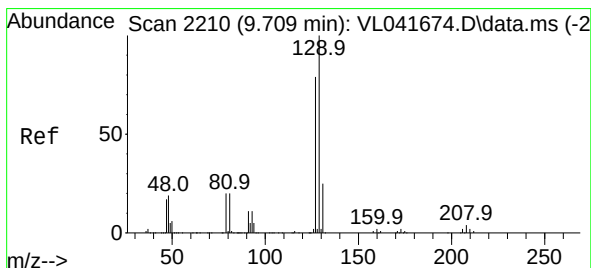
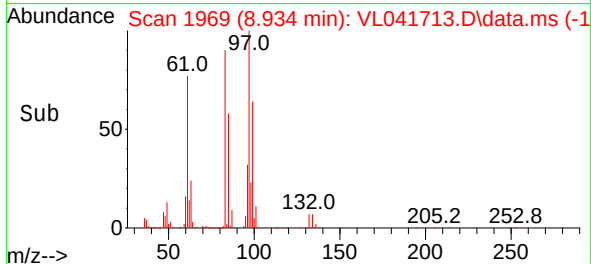
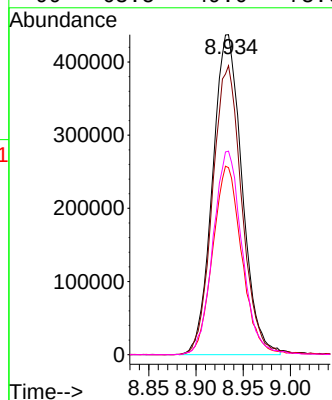
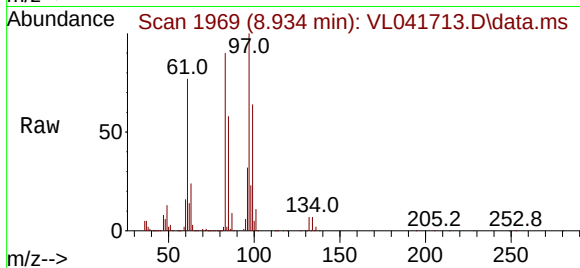




#47  
1,1,2-Trichloroethane  
Concen: 9.451 ppbv  
RT: 8.934 min Scan# 1957  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

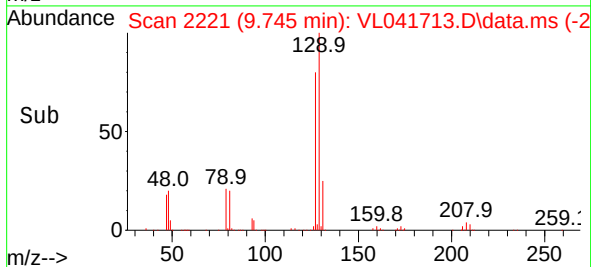
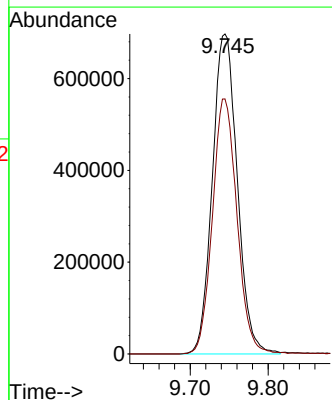
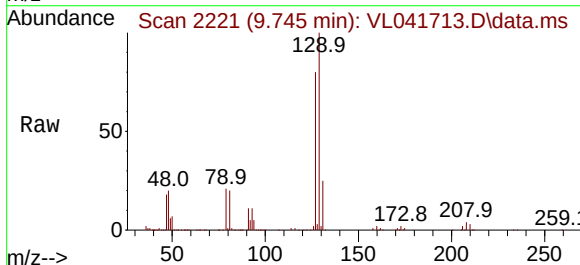
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1121ABS01

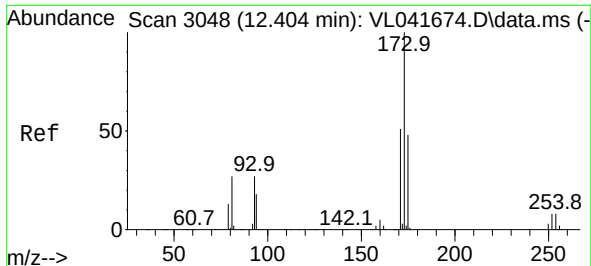
Tgt Ion: 97 Resp: 949123  
Ion Ratio Lower Upper  
97 100  
83 90.1 71.0 106.6  
85 58.3 45.4 68.2  
99 63.5 49.0 73.6



#48  
Dibromochloromethane  
Concen: 10.178 ppbv  
RT: 9.745 min Scan# 2221  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 129 Resp: 1553797  
Ion Ratio Lower Upper  
129 100  
127 78.5 39.1 117.2





#49

Bromoform

Concen: 10.451 ppbv

RT: 12.439 min Scan# 3048

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

VL1121ABS01

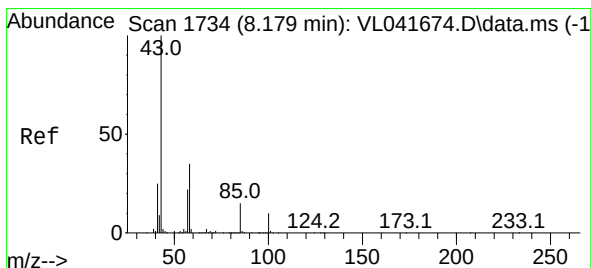
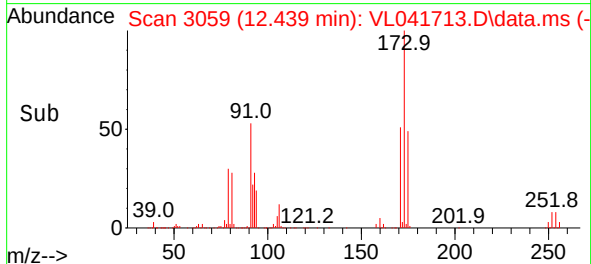
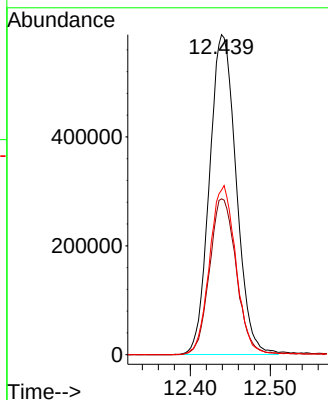
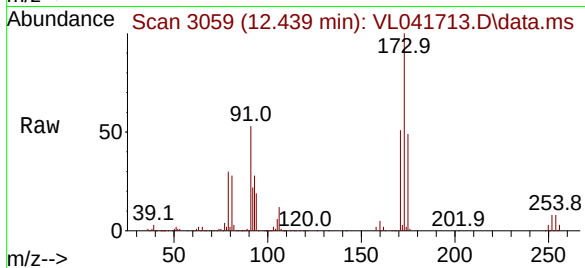
Tgt Ion:173 Resp: 1365111

Ion Ratio Lower Upper

173 100

175 49.0 39.2 58.8

171 52.2 41.7 62.5



#50

4-Methyl-2-Pentanone

Concen: 10.366 ppbv

RT: 8.214 min Scan# 1745

Delta R.T. 0.003 min

Lab File: VL041713.D

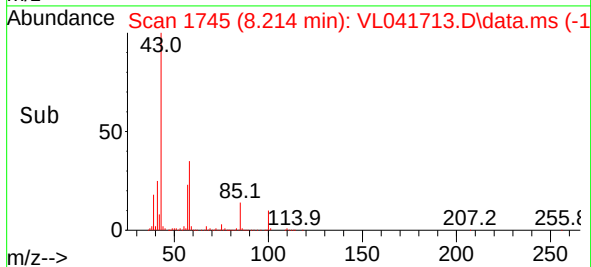
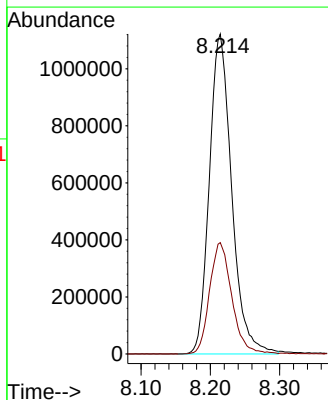
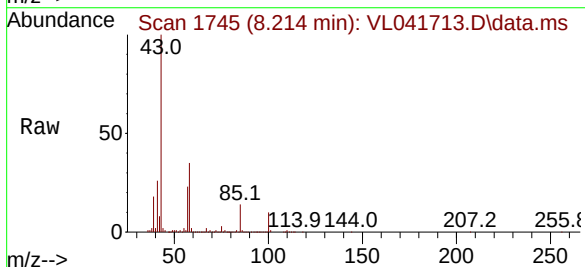
Acq: 21 Nov 2024 10:16

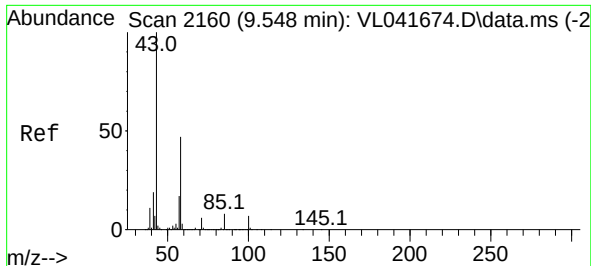
Tgt Ion: 43 Resp: 2511109

Ion Ratio Lower Upper

43 100

58 34.9 27.7 41.5

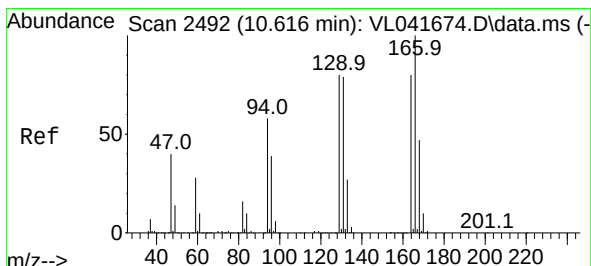
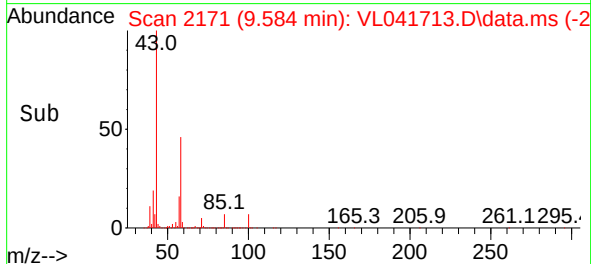
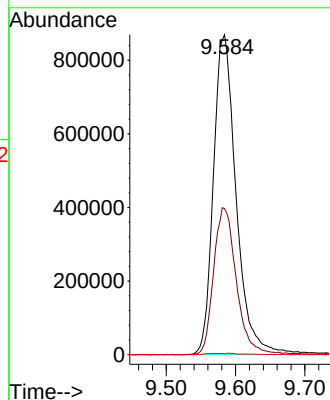
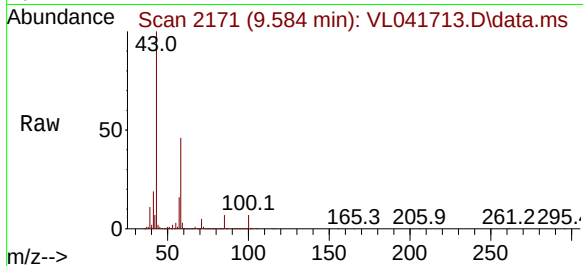




#51  
2-Hexanone  
Concen: 11.157 ppbv  
RT: 9.584 min Scan# 2160  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

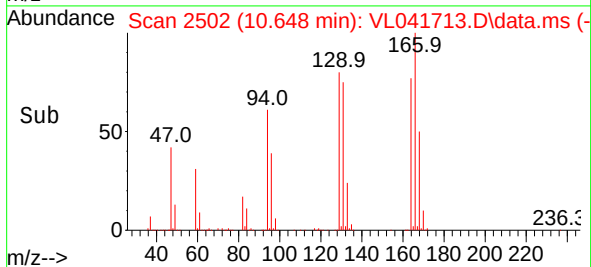
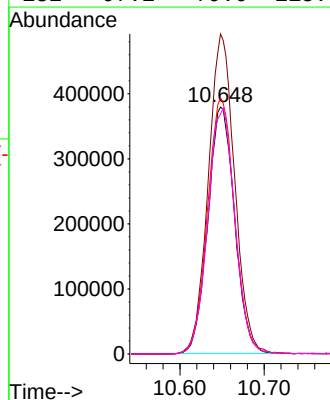
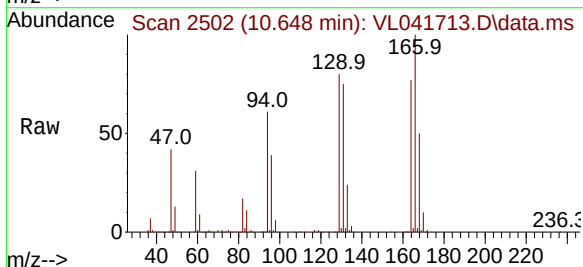
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1121ABS01

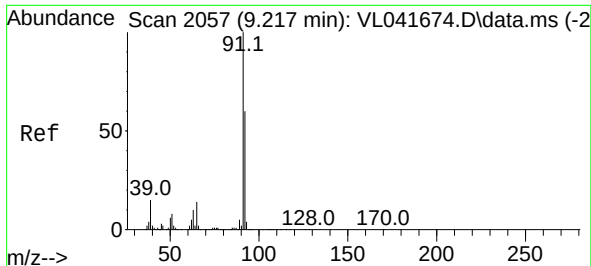
Tgt Ion: 43 Resp: 1968115  
Ion Ratio Lower Upper  
43 100  
58 46.6 37.0 55.6  
98 0.7 0.6 0.8



#52  
Tetrachloroethene  
Concen: 10.419 ppbv  
RT: 10.648 min Scan# 2502  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 164 Resp: 833665  
Ion Ratio Lower Upper  
164 100  
166 129.4 100.2 150.4  
129 103.6 79.7 119.5  
131 97.1 79.0 118.4





#53

Toluene

Concen: 10.664 ppbv

RT: 9.253 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

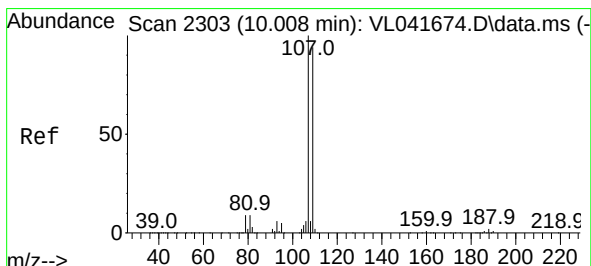
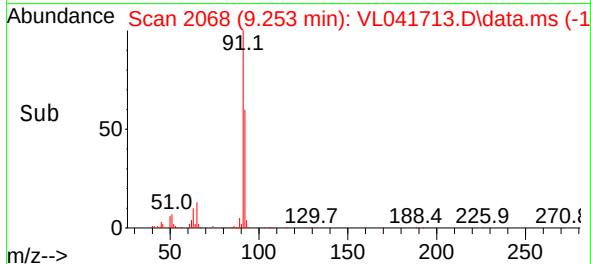
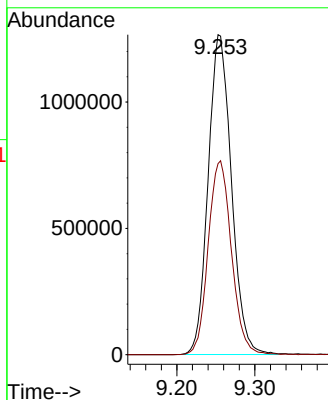
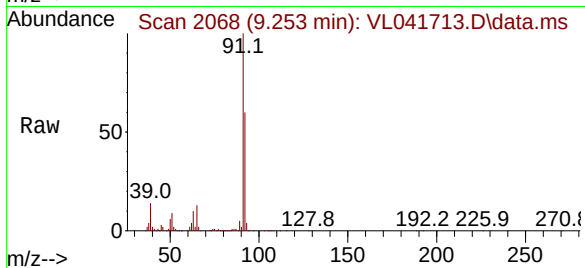
VL1121ABS01

Tgt Ion: 91 Resp: 2633054

Ion Ratio Lower Upper

91 100

92 60.6 49.0 73.4



#54

1,2-Dibromoethane

Concen: 10.629 ppbv

RT: 10.040 min Scan# 2313

Delta R.T. 0.000 min

Lab File: VL041713.D

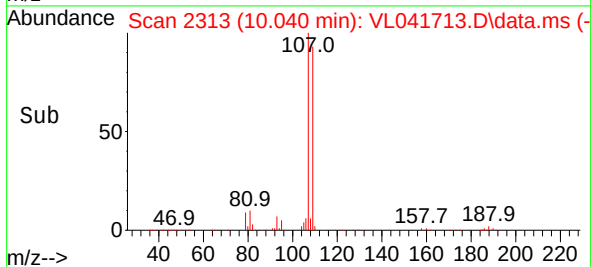
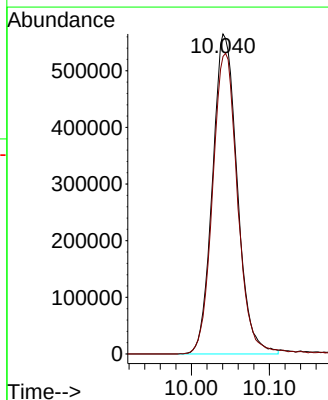
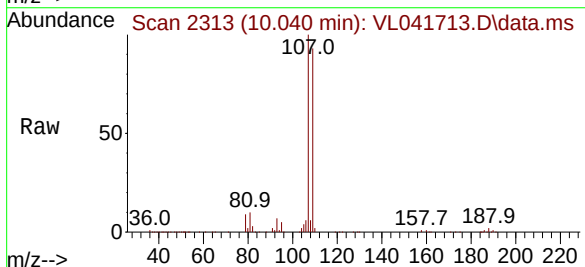
Acq: 21 Nov 2024 10:16

Tgt Ion:107 Resp: 1247128

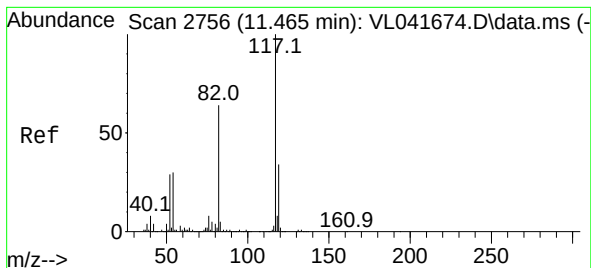
Ion Ratio Lower Upper

107 100

109 93.0 74.9 112.3



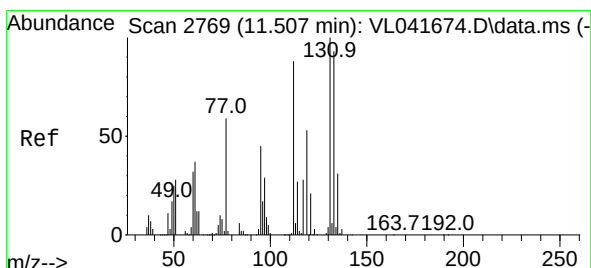
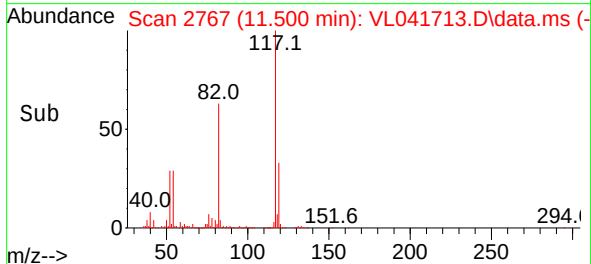
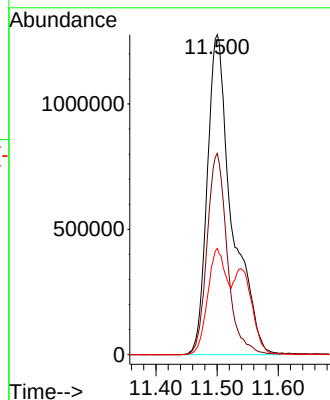
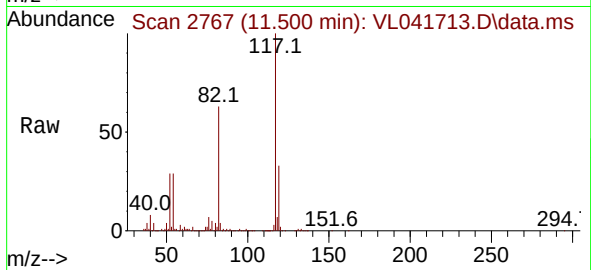




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.500 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

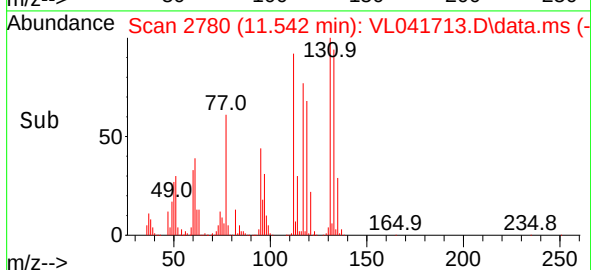
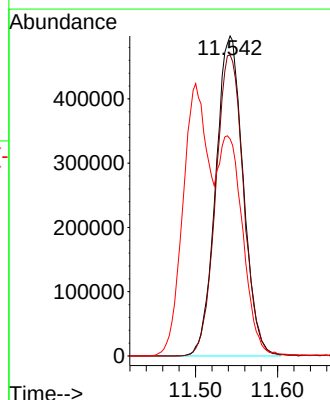
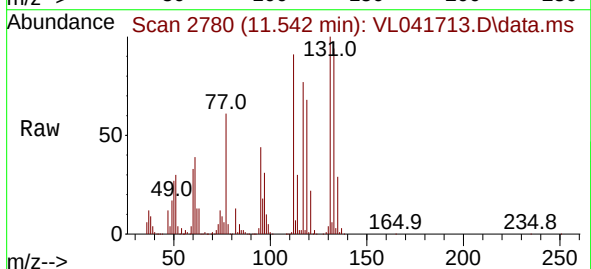
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1121ABS01

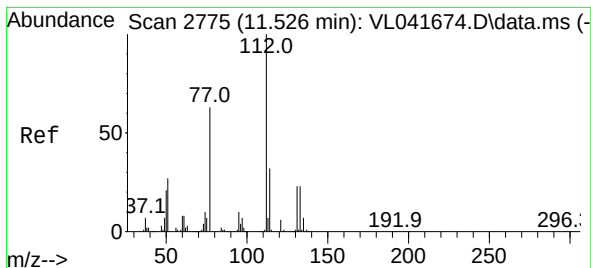
Tgt Ion:117 Resp: 3594883  
Ion Ratio Lower Upper  
117 100  
82 51.9 49.8 74.8  
119 26.3 24.2 36.4



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.813 ppbv  
RT: 11.542 min Scan# 2780  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion:131 Resp: 1158400  
Ion Ratio Lower Upper  
131 100  
133 95.5 76.5 114.7  
119 62.4 49.8 74.8

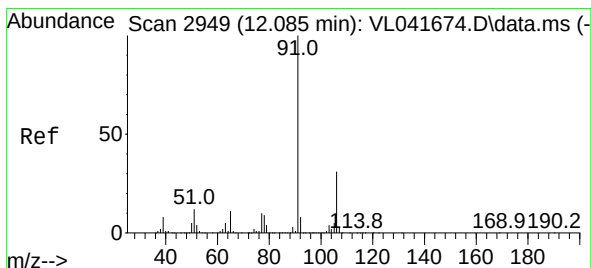
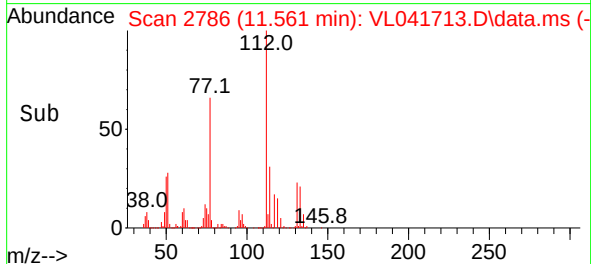
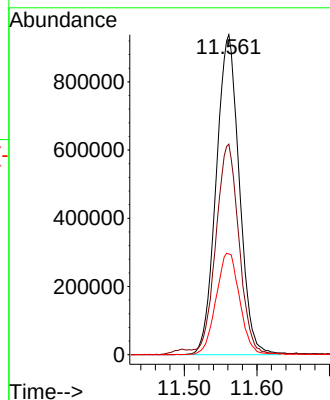
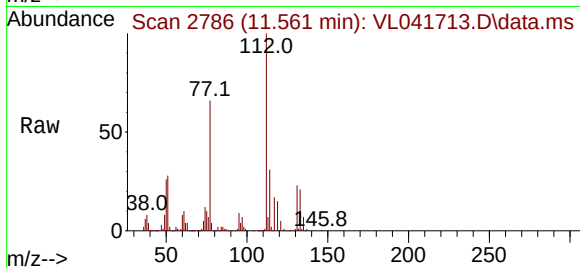




#57  
Chlorobenzene  
Concen: 7.816 ppbv  
RT: 11.561 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

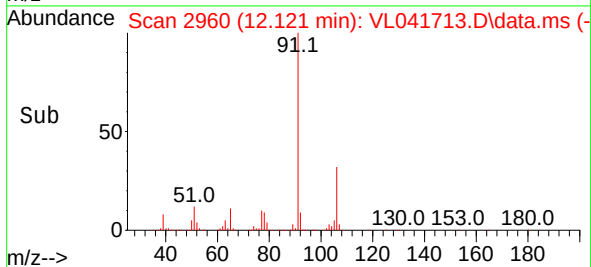
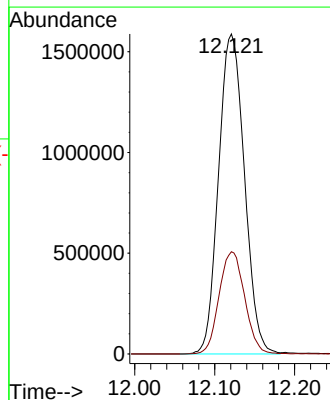
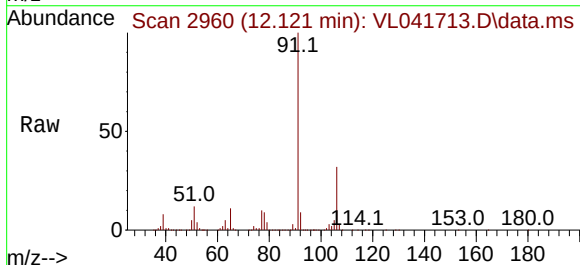
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

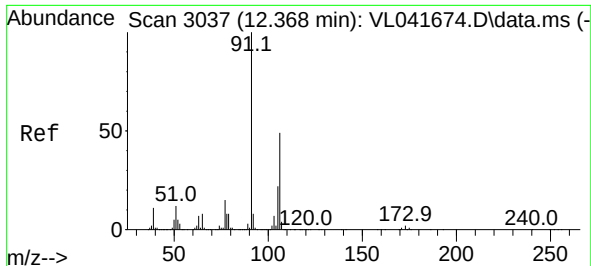
Tgt Ion:112 Resp: 2078199  
Ion Ratio Lower Upper  
112 100  
77 65.4 51.4 77.2  
114 31.4 28.4 34.8



#58  
Ethyl Benzene  
Concen: 9.048 ppbv  
RT: 12.121 min Scan# 2960  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion: 91 Resp: 3565857  
Ion Ratio Lower Upper  
91 100  
106 32.0 24.9 37.3





#59

m/p-Xylene

Concen: 8.997 ppbv

RT: 12.404 min Scan# 3037

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_1

ClientSampleId :

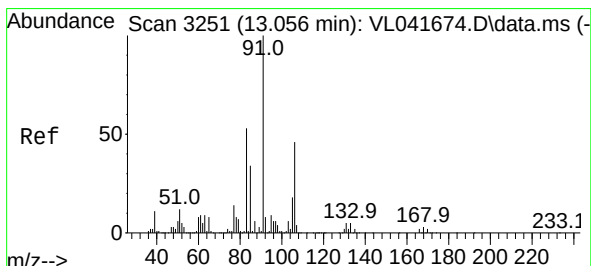
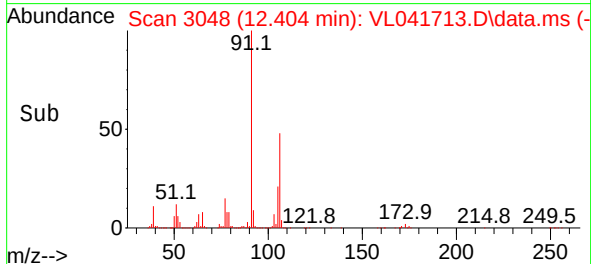
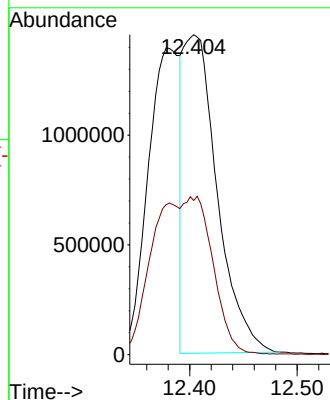
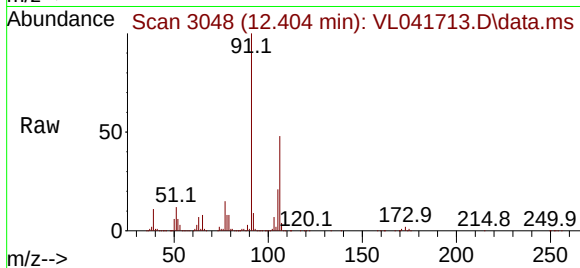
VL1121ABS01

Tgt Ion: 91 Resp: 3175161

Ion Ratio Lower Upper

91 100

106 88.2 36.9 55.3#



#60

o-Xylene

Concen: 8.832 ppbv

RT: 13.089 min Scan# 3261

Delta R.T. 0.000 min

Lab File: VL041713.D

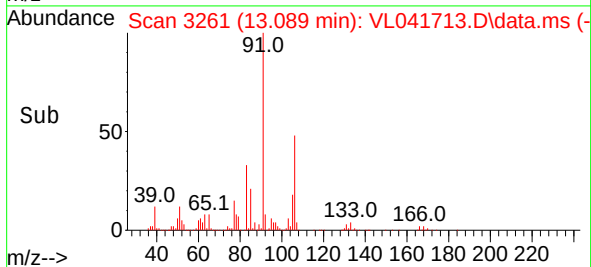
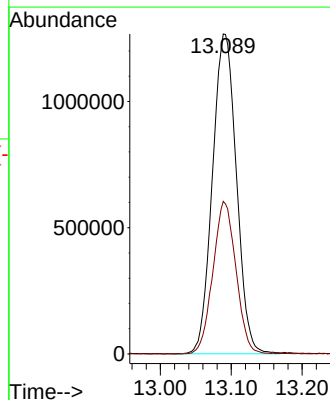
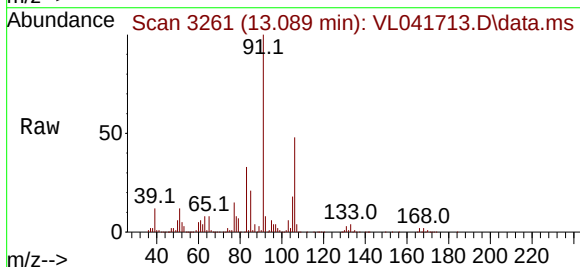
Acq: 21 Nov 2024 10:16

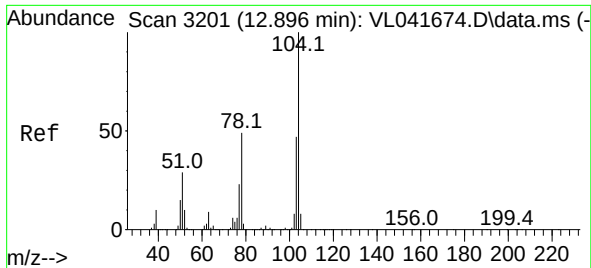
Tgt Ion: 91 Resp: 2972199

Ion Ratio Lower Upper

91 100

106 45.9 23.2 69.6

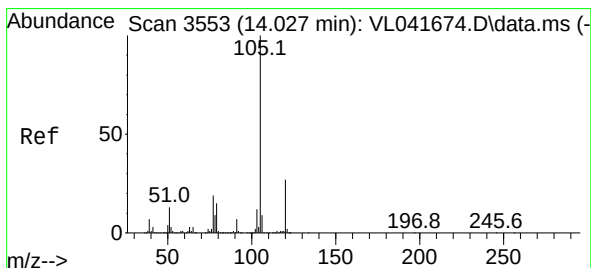
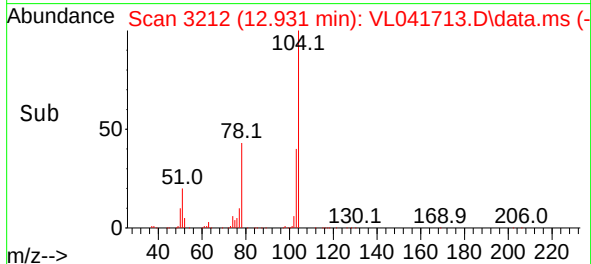
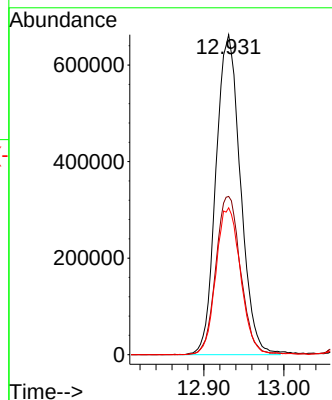
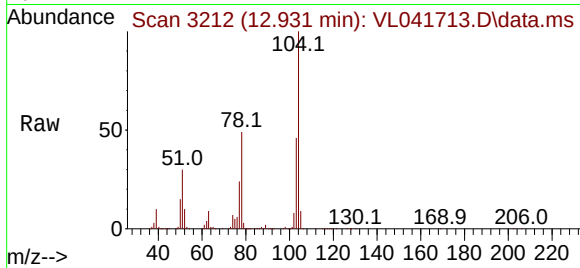




#61  
Styrene  
Concen: 10.154 ppbv  
RT: 12.931 min Scan# 311  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

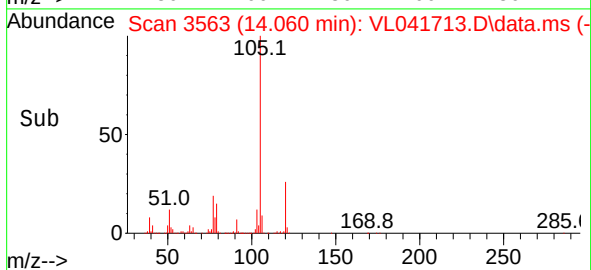
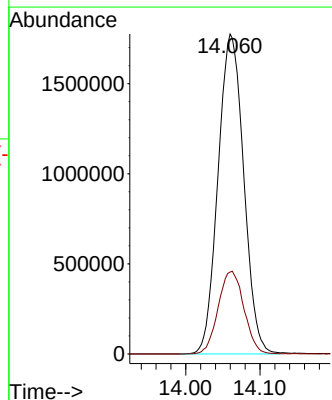
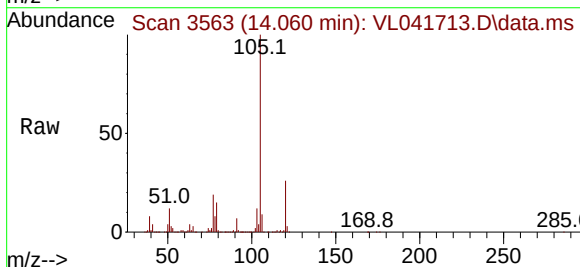
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1121ABS01

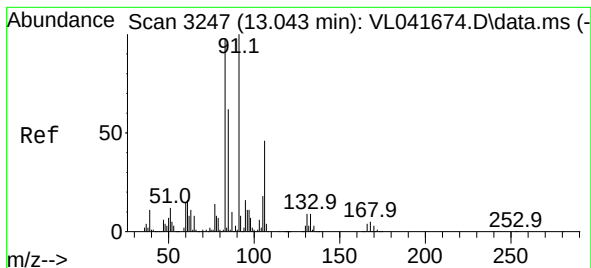
Tgt Ion:104 Resp: 1410360  
Ion Ratio Lower Upper  
104 100  
78 50.4 39.8 59.8  
103 46.8 37.4 56.0



#62  
Isopropylbenzene  
Concen: 8.202 ppbv  
RT: 14.060 min Scan# 3563  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion:105 Resp: 4263154  
Ion Ratio Lower Upper  
105 100  
120 26.0 21.1 31.7

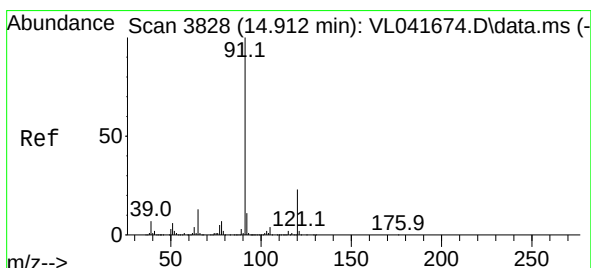
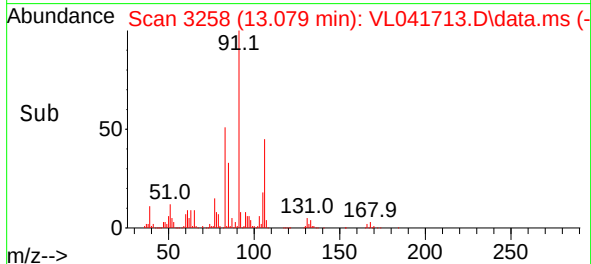
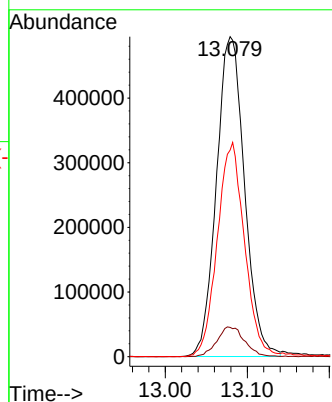
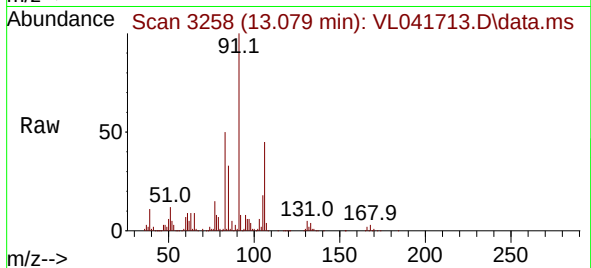




#63  
1,1,2,2-Tetrachloroethane  
Concen: 4.765 ppbv  
RT: 13.079 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

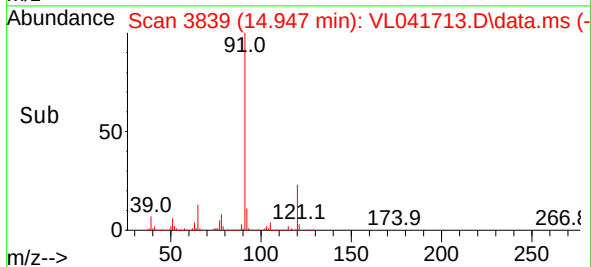
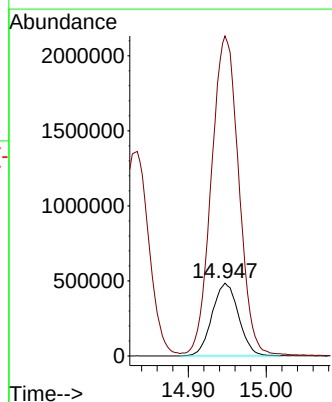
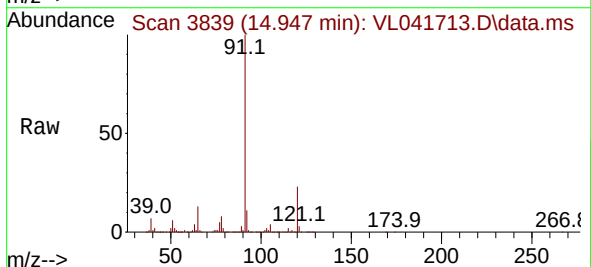
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1121ABS01

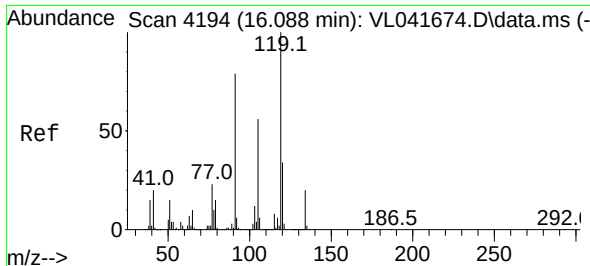
Tgt Ion: 83 Resp: 1179536  
Ion Ratio Lower Upper  
83 100  
131 9.2 4.8 14.3  
85 65.8 32.6 98.0



#64  
n-propylbenzene  
Concen: 8.427 ppbv  
RT: 14.947 min Scan# 3839  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion:120 Resp: 1146628  
Ion Ratio Lower Upper  
120 100  
91 456.5 362.4 543.6





#65

tert-Butylbenzene

Concen: 8.213 ppbv

RT: 16.121 min Scan# 4194

Delta R.T. 0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_1

ClientSampleId :

VL1121ABS01

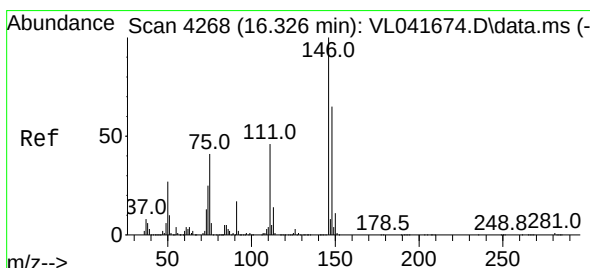
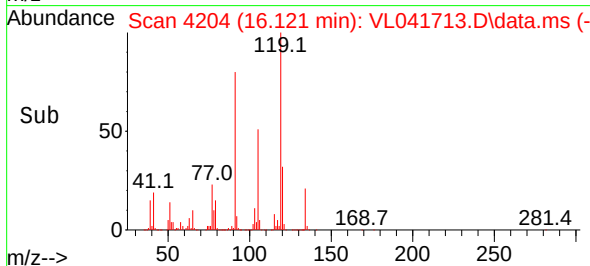
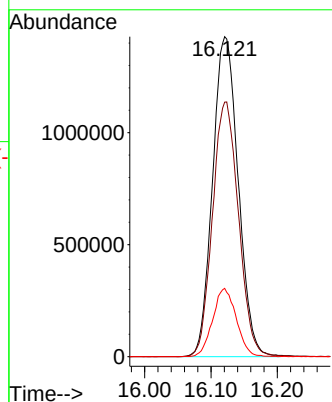
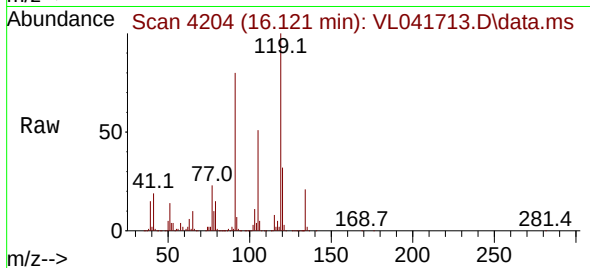
Tgt Ion:119 Resp: 3836581

Ion Ratio Lower Upper

119 100

91 80.8 64.3 96.5

134 19.7 15.8 23.8



#66

Benzyl Chloride

Concen: 4.986 ppbv

RT: 16.359 min Scan# 4278

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

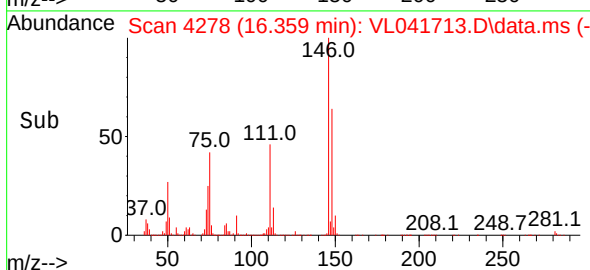
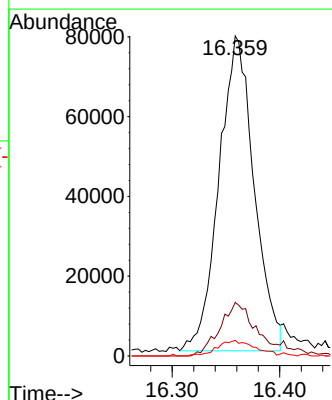
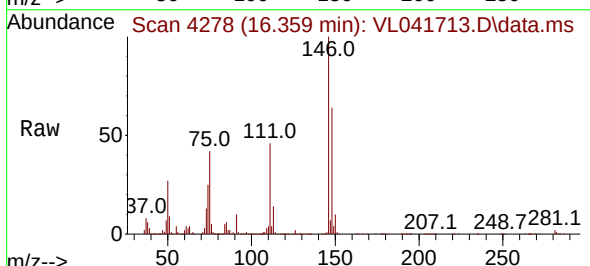
Tgt Ion: 91 Resp: 179175

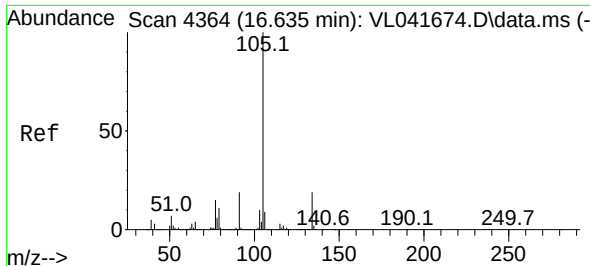
Ion Ratio Lower Upper

91 100

126 19.3 13.8 20.6

128 5.7 4.3 6.5





#67

sec-Butylbenzene

Concen: 8.147 ppbv

RT: 16.664 min Scan# 4364

Delta R.T. -0.003 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_1

ClientSampleId :

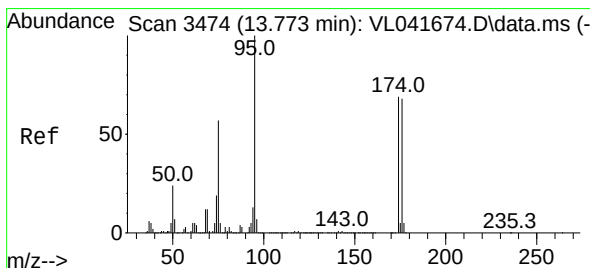
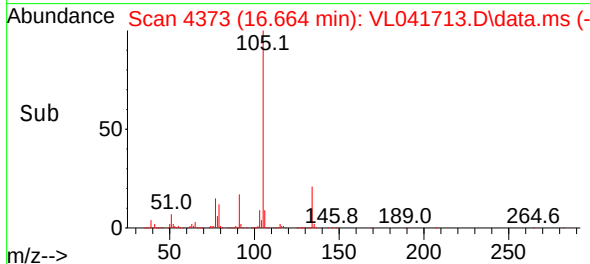
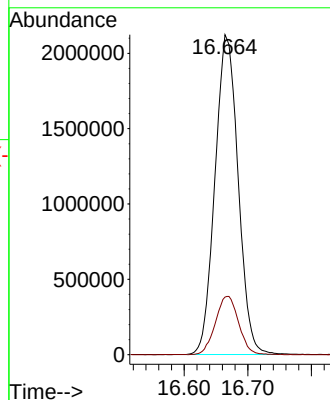
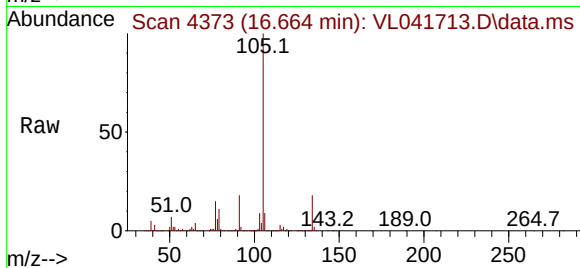
VL1121ABS01

Tgt Ion:105 Resp: 5364091

Ion Ratio Lower Upper

105 100

134 18.4 14.6 22.0



#68

1-Bromo-4-Fluorobenzene

Concen: 8.363 ppbv

RT: 13.806 min Scan# 3484

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

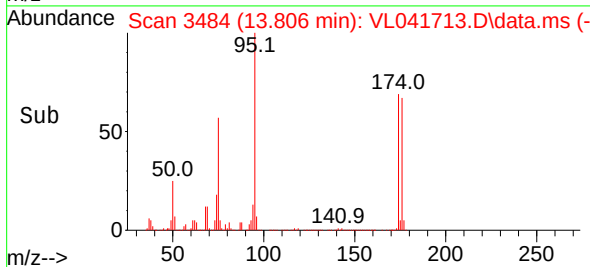
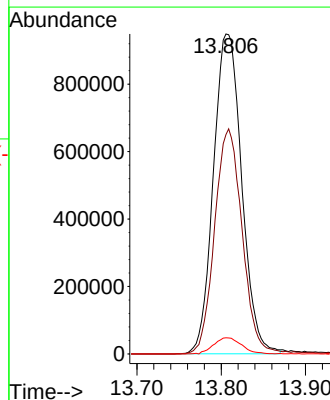
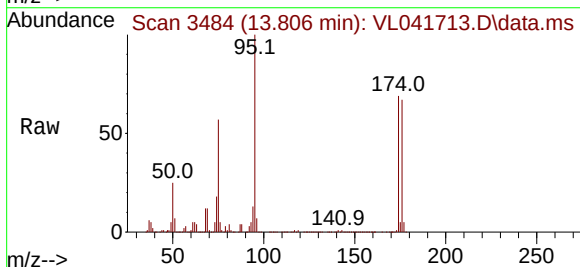
Tgt Ion: 95 Resp: 2215094

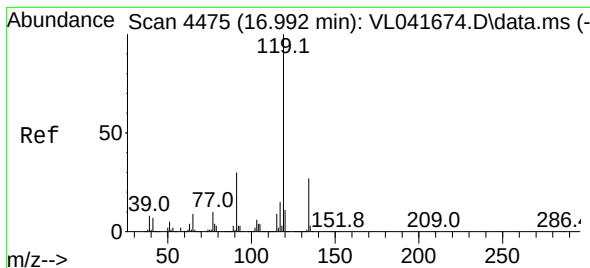
Ion Ratio Lower Upper

95 100

174 69.2 55.6 83.4

175 5.1 4.2 6.2





#69

p-Isopropyltoluene

Concen: 8.377 ppbv

RT: 17.027 min Scan# 4475

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_1

ClientSampleId :

VL1121ABS01

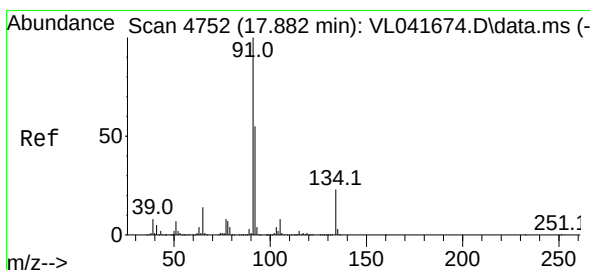
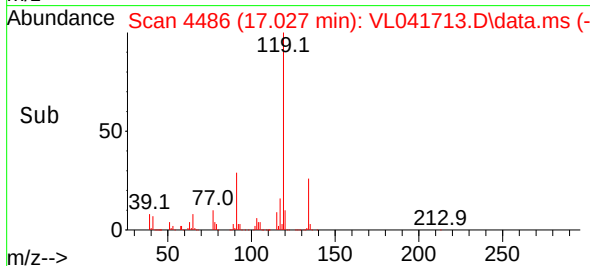
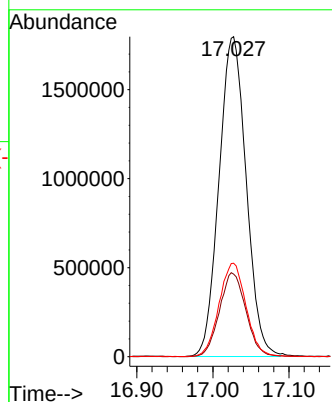
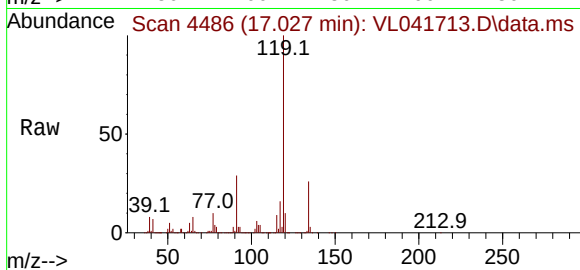
Tgt Ion:119 Resp: 4458745

Ion Ratio Lower Upper

119 100

134 25.7 20.8 31.2

91 28.9 23.2 34.8



#70

n-Butylbenzene

Concen: 8.455 ppbv

RT: 17.918 min Scan# 4763

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

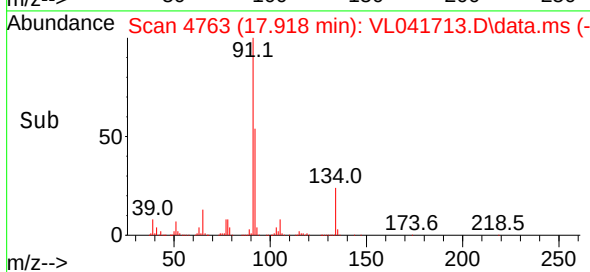
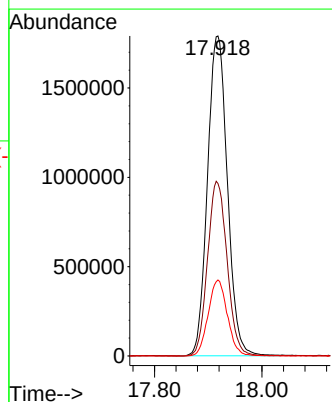
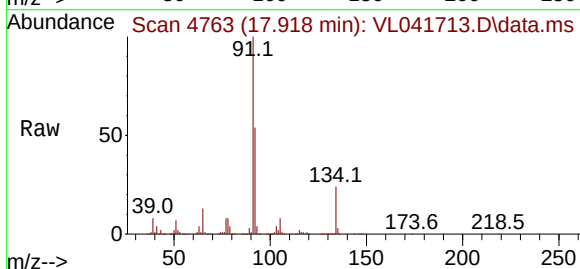
Tgt Ion: 91 Resp: 4604740

Ion Ratio Lower Upper

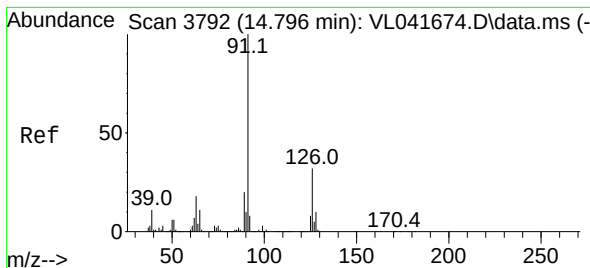
91 100

92 53.8 43.3 64.9

134 23.0 18.4 27.6



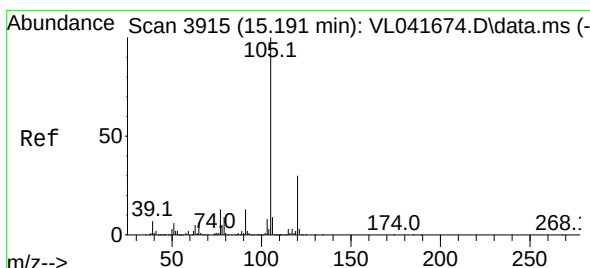
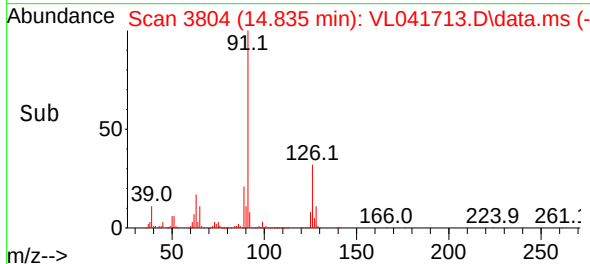
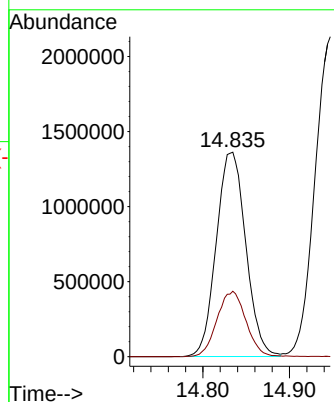
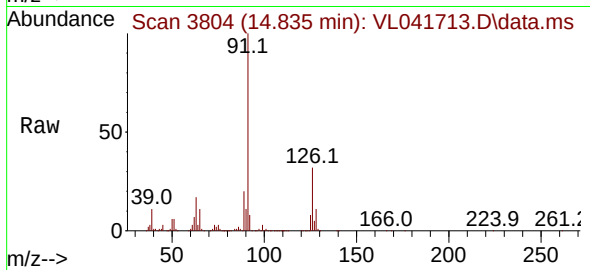




#71  
2-Chlorotoluene  
Concen: 8.579 ppbv  
RT: 14.835 min Scan# 3804  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

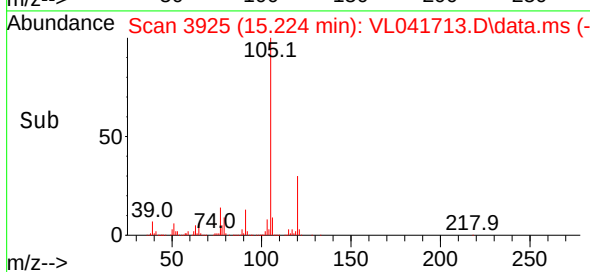
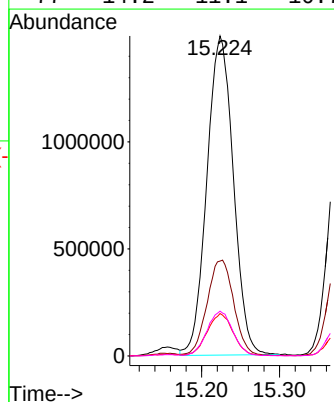
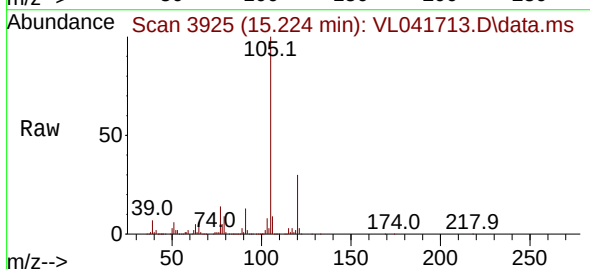
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1121ABS01

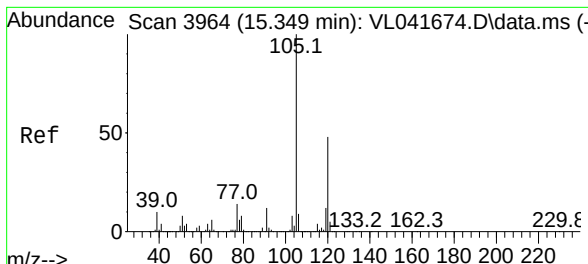
Tgt Ion: 91 Resp: 3223209  
Ion Ratio Lower Upper  
91 100  
126 31.5 12.8 51.0



#72  
4-Ethyltoluene  
Concen: 8.983 ppbv  
RT: 15.224 min Scan# 3925  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion:105 Resp: 3514757  
Ion Ratio Lower Upper  
105 100  
120 30.6 25.0 37.4  
91 13.1 10.6 15.8  
77 14.2 11.1 16.7



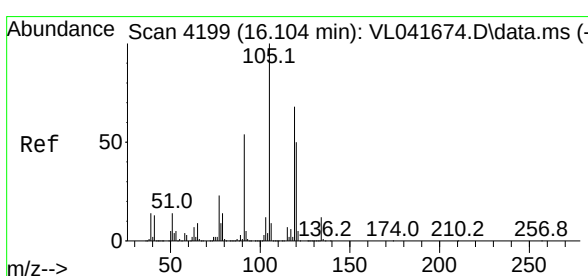
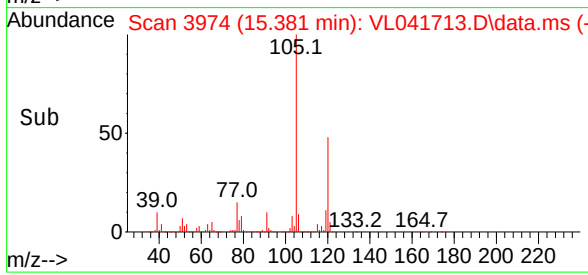
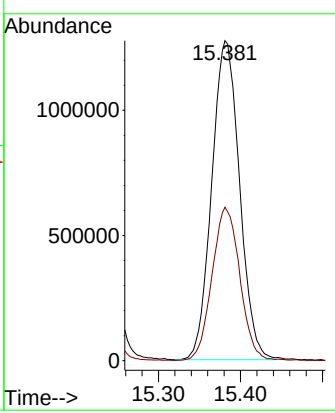
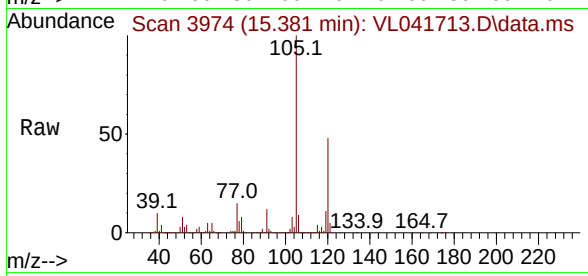


#73  
 1,3,5-Trimethylbenzene  
 Concen: 8.737 ppbv  
 RT: 15.381 min Scan# 3964  
 Delta R.T. 0.000 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

Instrument : MSVOA\_1  
 ClientSampleId : VL1121ABS01

Tgt Ion:105 Resp: 2999740

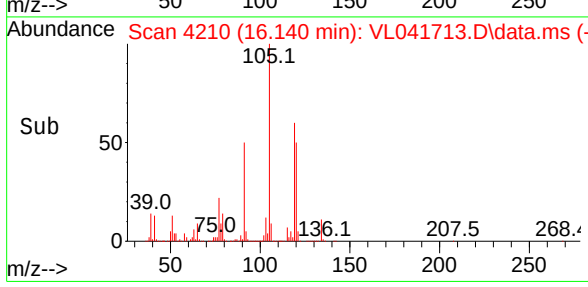
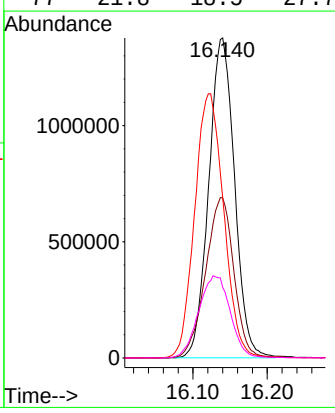
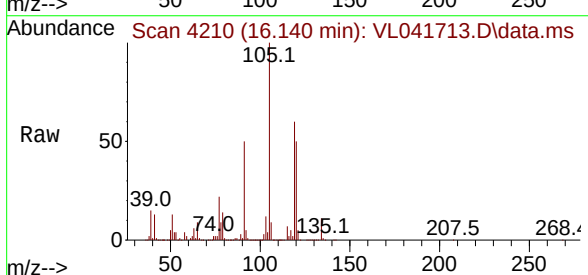
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 48.0  | 38.4  | 57.6  |

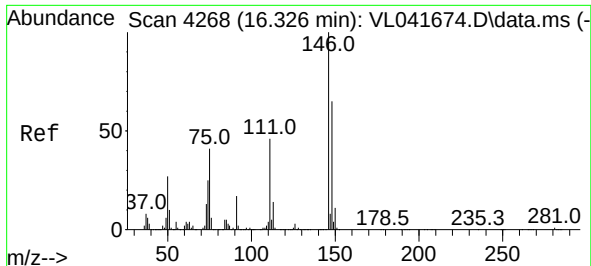


#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.327 ppbv  
 RT: 16.140 min Scan# 4210  
 Delta R.T. 0.000 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

Tgt Ion:105 Resp: 3320988

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 49.8  | 39.8  | 59.8  |
| 91  | 49.6  | 43.2  | 64.8  |
| 77  | 21.8  | 18.5  | 27.7  |

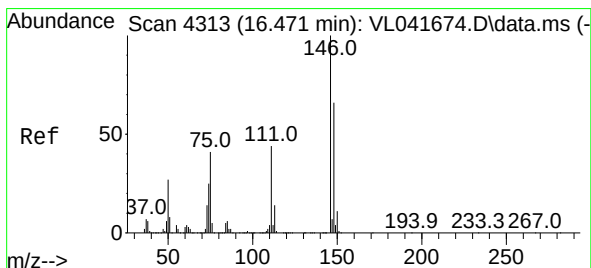
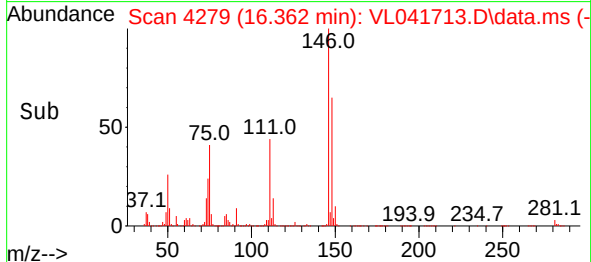
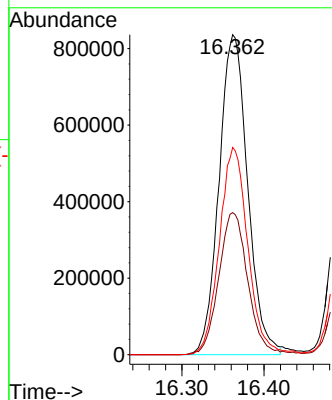
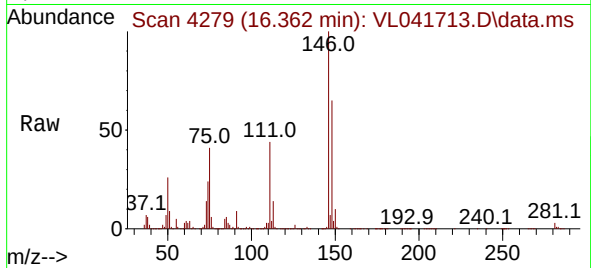




#75  
1,3-Dichlorobenzene  
Concen: 8.212 ppbv  
RT: 16.362 min Scan# 4324  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

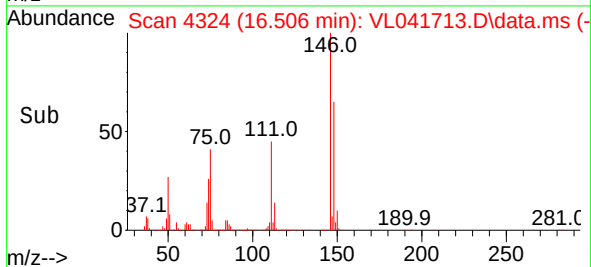
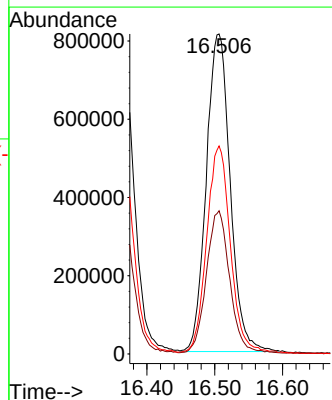
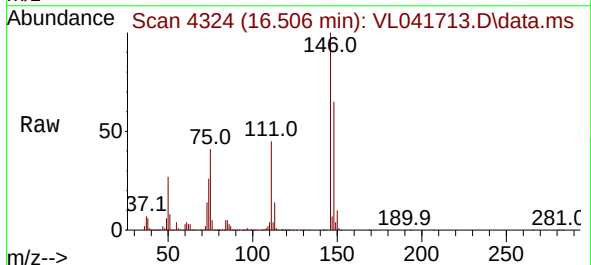
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1121ABS01

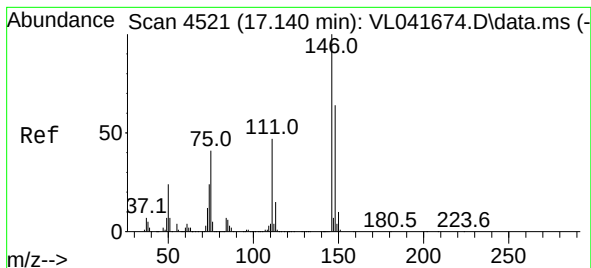
Tgt Ion:146 Resp: 2028386  
Ion Ratio Lower Upper  
146 100  
111 45.2 22.8 68.3  
148 64.6 32.4 97.0



#76  
1,4-Dichlorobenzene  
Concen: 8.350 ppbv  
RT: 16.506 min Scan# 4324  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

Tgt Ion:146 Resp: 1989769  
Ion Ratio Lower Upper  
146 100  
111 44.3 22.1 66.3  
148 65.4 33.3 99.8





#77

1,2-Dichlorobenzene

Concen: 8.069 ppbv

RT: 17.175 min Scan# 4532

Delta R.T. 0.000 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

Instrument :

MSVOA\_L

ClientSampleId :

VL1121ABS01

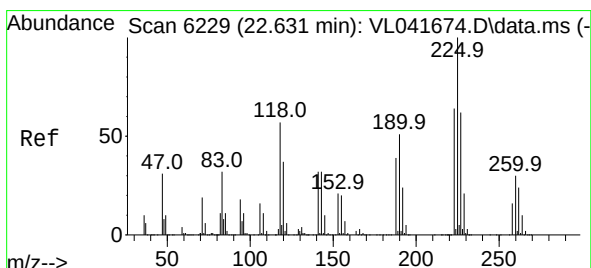
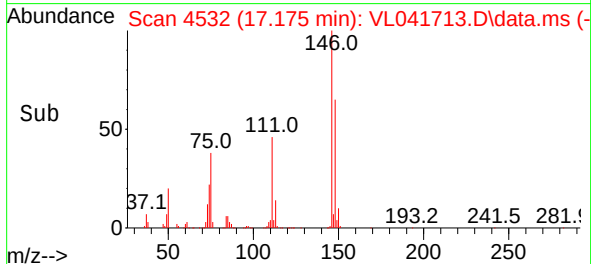
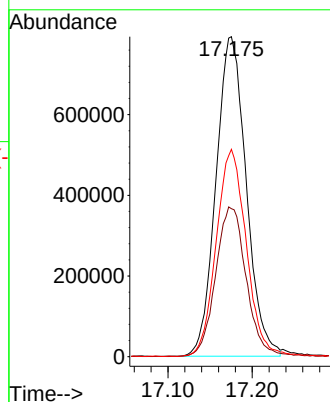
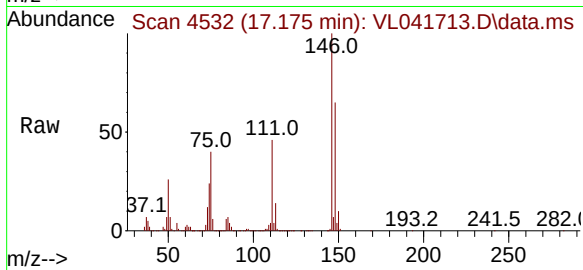
Tgt Ion:146 Resp: 1974338

Ion Ratio Lower Upper

146 100

111 47.5 23.4 70.3

148 64.8 32.1 96.5



#78

Hexachloro-1,3-Butadiene

Concen: 7.089 ppbv

RT: 22.670 min Scan# 6241

Delta R.T. 0.006 min

Lab File: VL041713.D

Acq: 21 Nov 2024 10:16

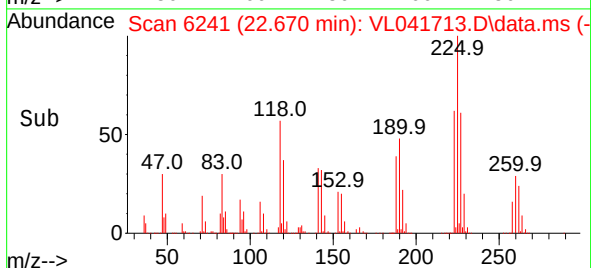
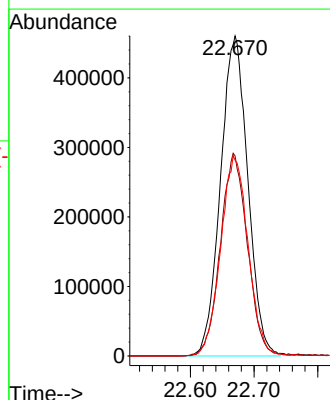
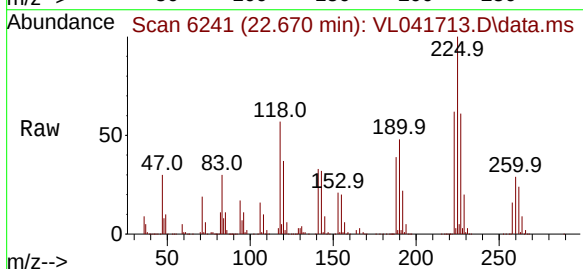
Tgt Ion:225 Resp: 1371815

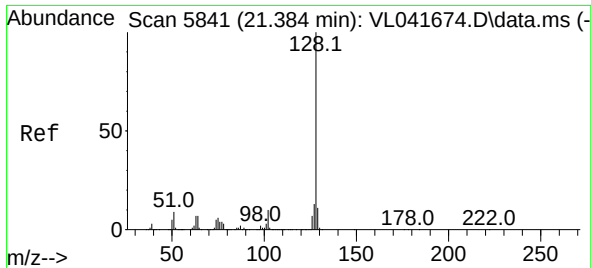
Ion Ratio Lower Upper

225 100

223 62.8 51.1 76.7

227 63.3 51.3 76.9

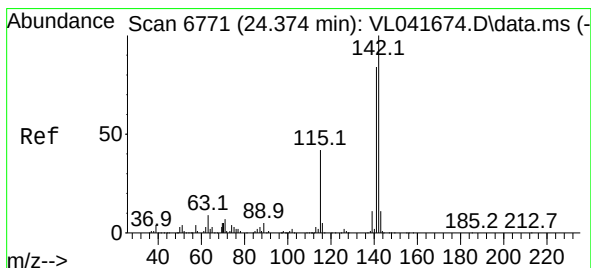
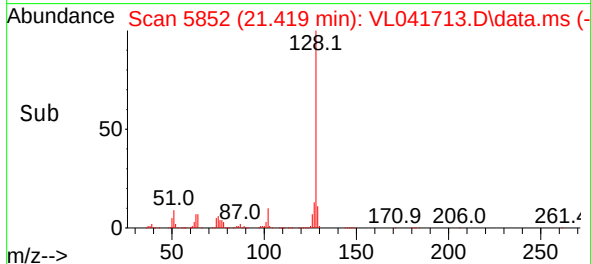
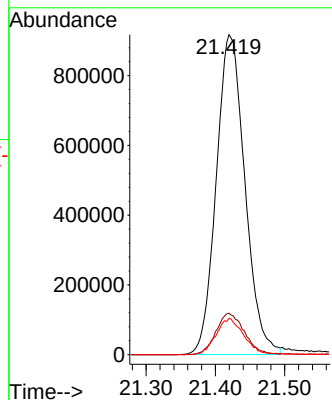
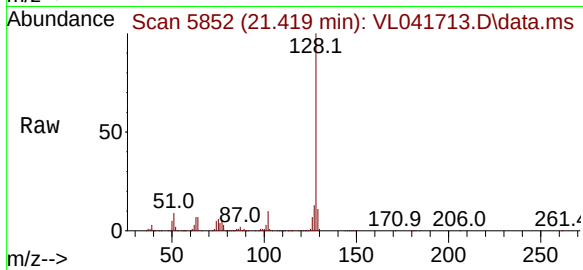




#79  
Naphthalene  
Concen: 10.695 ppbv  
RT: 21.419 min Scan# 5852  
Delta R.T. 0.000 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

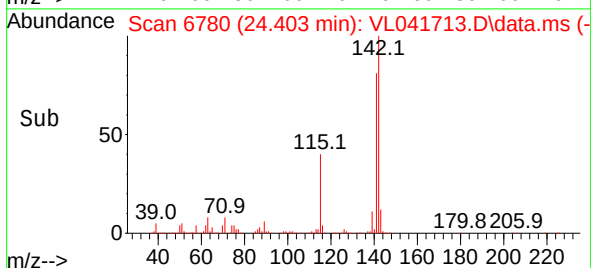
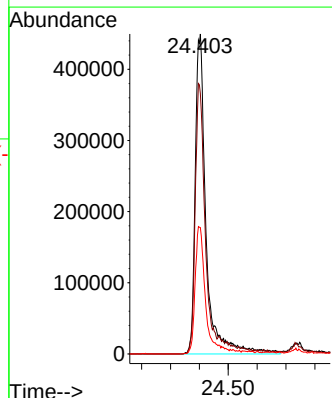
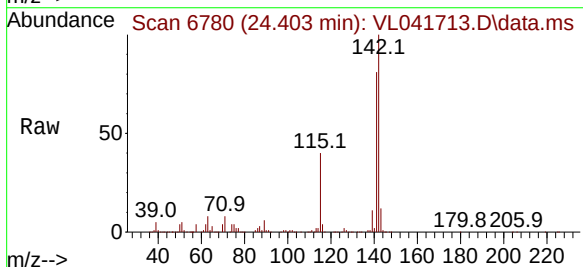
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1121ABS01

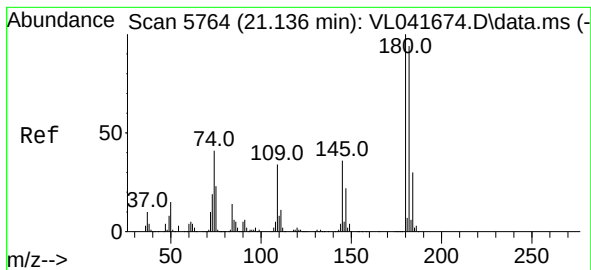
Tgt Ion:128 Resp: 2632672  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.5 15.7  
129 11.3 8.7 13.1



#80  
Naphthalene, 2-methyl-  
Concen: 21.939 ppbv  
RT: 24.403 min Scan# 6780  
Delta R.T. 0.003 min  
Lab File: VL041713.D  
Acq: 21 Nov 2024 10:16

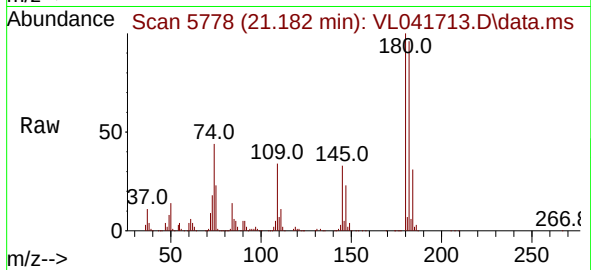
Tgt Ion:142 Resp: 1177283  
Ion Ratio Lower Upper  
142 100  
141 81.4 68.1 102.1  
115 38.6 33.1 49.7



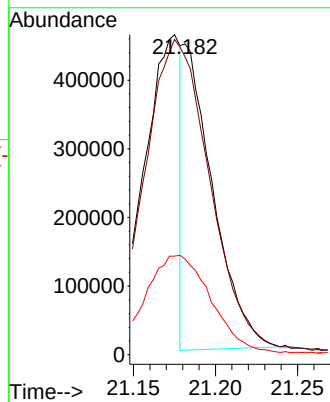
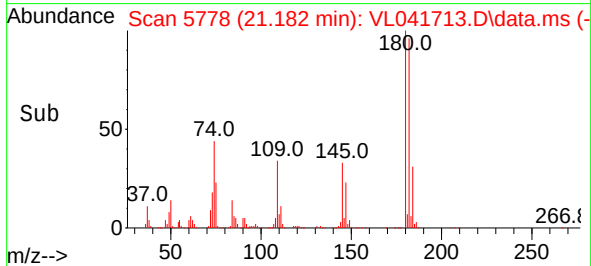


#81  
 1,2,4-Trichlorobenzene  
 Concen: 3.635 ppbv  
 RT: 21.182 min Scan# 51  
 Delta R.T. 0.006 min  
 Lab File: VL041713.D  
 Acq: 21 Nov 2024 10:16

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1121ABS01



Tgt Ion:180 Resp: 562756  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 78.2 117.2#  
 184 75.8 25.0 37.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112124\  
 Data File : VL041714.D  
 Acq On : 21 Nov 2024 14:12  
 Operator : SY/MD  
 Sample : P4633-01DL 2X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 E070-1100DL

Quant Time: Nov 22 01:07:51 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 22 01:00:55 2024  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.230  | 49   | 1043249  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.690  | 114  | 2930669  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.504 | 117  | 2692925  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.812 | 95    | 2181457  | 10.994   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 109.900% |

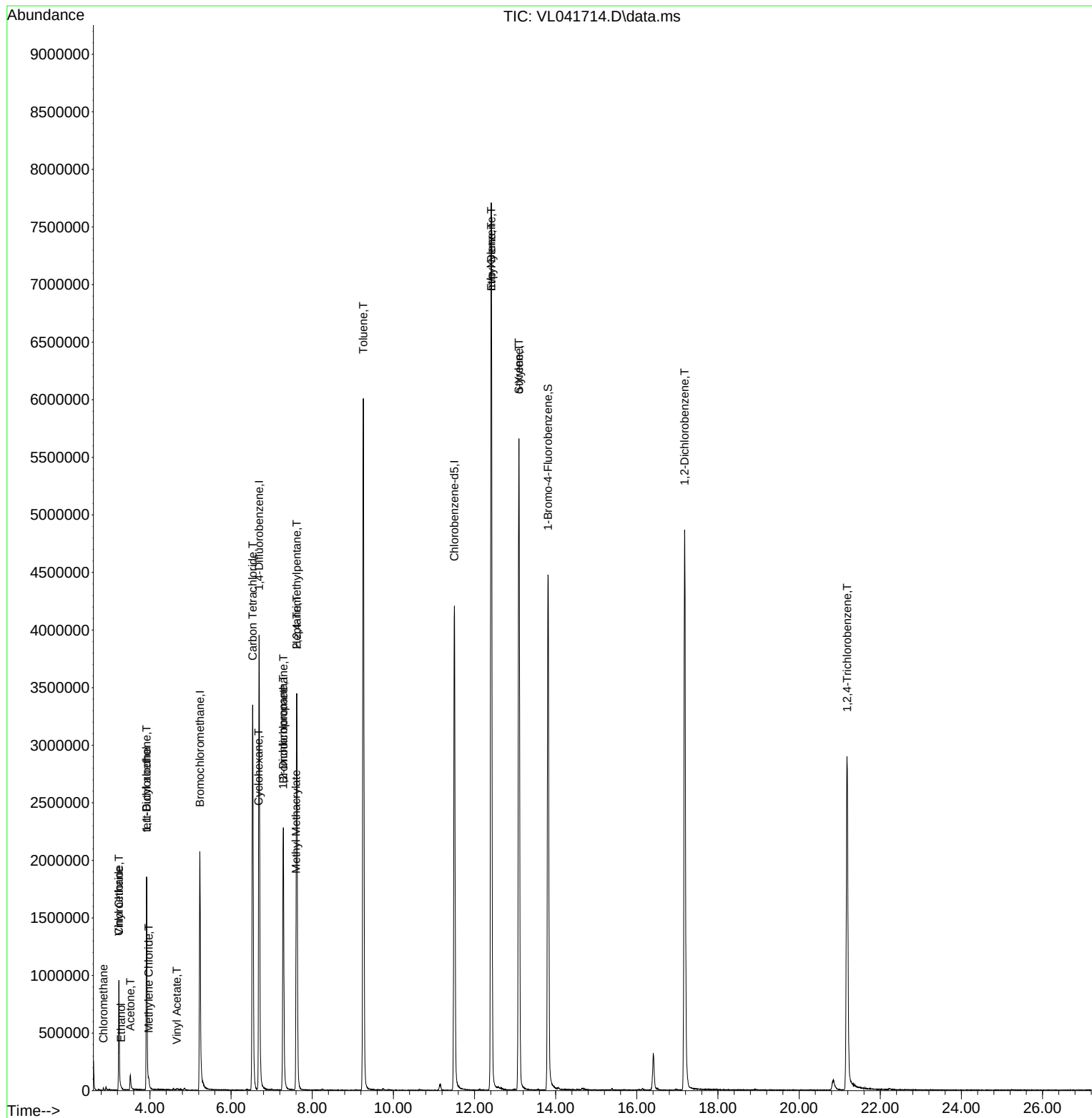
| Target Compounds           |        |     |         |        |        | Qvalue |
|----------------------------|--------|-----|---------|--------|--------|--------|
| 4) Chloromethane           | 2.851  | 50  | 14851   | 0.206  | ppbv   | 95     |
| 5) Vinyl Chloride          | 3.237  | 62  | 25032   | 0.386  | ppbv # | 1      |
| 7) Chloroethane            | 3.237  | 64  | 591710  | 25.032 | ppbv   | 98     |
| 10) Heptane                | 7.619  | 43  | 1604286 | 12.088 | ppbv   | 99     |
| 13) Ethanol                | 3.288  | 45  | 1816    | 0.501  | ppbv # | 40     |
| 15) Acetone                | 3.517  | 43  | 135154  | 1.053  | ppbv   | 90     |
| 17) tert-Butyl alcohol     | 3.919  | 59  | 37245   | 0.331  | ppbv # | 72     |
| 18) 1,1-Dichloroethene     | 3.919  | 96  | 514801  | 9.832  | ppbv   | 97     |
| 20) Methylene Chloride     | 3.970  | 84  | 13688   | 0.290  | ppbv   | 89     |
| 23) Vinyl Acetate          | 4.661  | 43  | 3624    | 0.064  | ppbv # | 77     |
| 30) Cyclohexane            | 6.677  | 84  | 4721    | 0.054  | ppbv # | 1      |
| 35) Carbon Tetrachloride   | 6.533  | 117 | 2096970 | 13.562 | ppbv   | 98     |
| 39) 1,2-Dichloropropane    | 7.285  | 63  | 8788    | 0.102  | ppbv # | 23     |
| 42) Bromodichloromethane   | 7.288  | 83  | 1571344 | 9.230  | ppbv   | 99     |
| 43) Methyl Methacrylate    | 7.600  | 69  | 13341   | 0.175  | ppbv # | 1      |
| 44) 2,2,4-Trimethylpentane | 7.619  | 57  | 784336  | 2.132  | ppbv # | 1      |
| 53) Toluene                | 9.259  | 91  | 4863423 | 21.298 | ppbv   | 99     |
| 58) Ethyl Benzene          | 12.413 | 91  | 5865203 | 19.867 | ppbv # | 64     |
| 59) m/p-Xylene             | 12.413 | 91  | 5865203 | 22.185 | ppbv   | 95     |
| 60) o-Xylene               | 13.095 | 91  | 4483154 | 17.783 | ppbv   | 100    |
| 61) Styrene                | 13.095 | 104 | 98730   | 0.949  | ppbv # | 1      |
| 77) 1,2-Dichlorobenzene    | 17.179 | 146 | 2731245 | 14.901 | ppbv   | 100    |
| 81) 1,2,4-Trichlorobenzene | 21.182 | 180 | 1359517 | 11.723 | ppbv   | 99     |

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

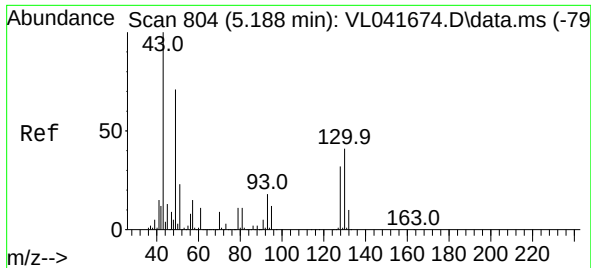
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Data File : VL041714.D  
Acq On : 21 Nov 2024 14:12  
Operator : SY/MD  
Sample : P4633-01DL 2X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL

Quant Time: Nov 22 01:07:51 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 22 01:00:55 2024  
Response via : Initial Calibration



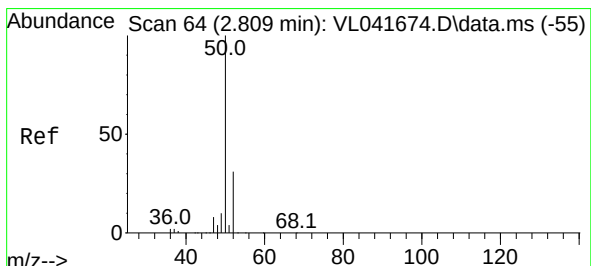
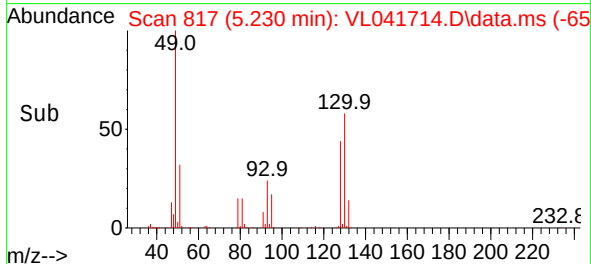
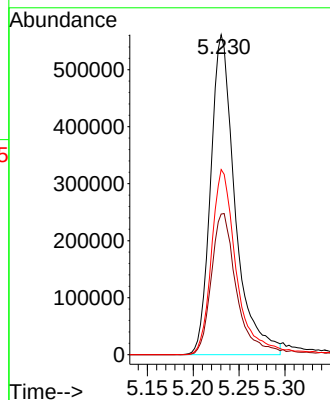
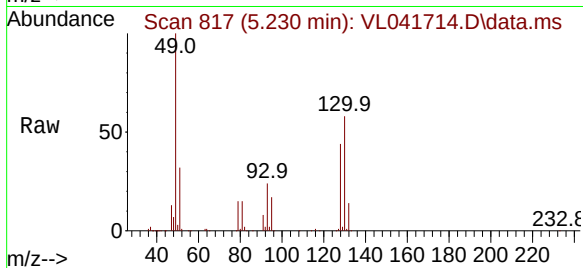




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.230 min Scan# 81  
Delta R.T. 0.009 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

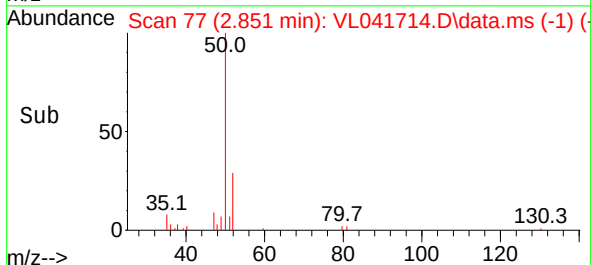
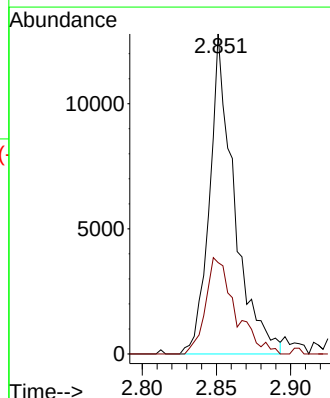
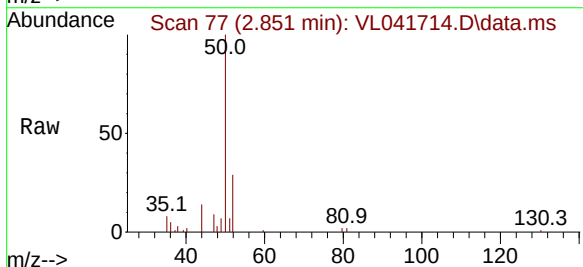
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL

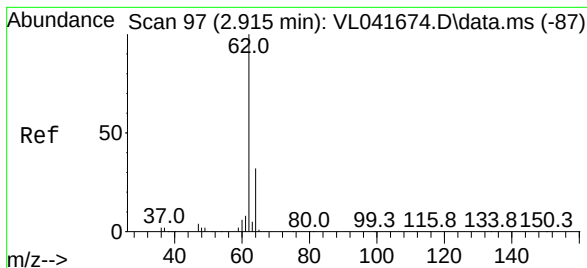
Tgt Ion: 49 Resp: 1043249  
Ion Ratio Lower Upper  
49 100  
128 47.4 23.8 71.2  
130 61.0 30.1 90.5



#4  
Chloromethane  
Concen: 0.206 ppbv  
RT: 2.851 min Scan# 77  
Delta R.T. 0.010 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

Tgt Ion: 50 Resp: 14851  
Ion Ratio Lower Upper  
50 100  
52 28.6 24.9 37.3

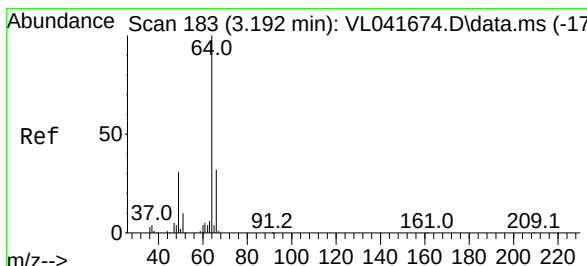
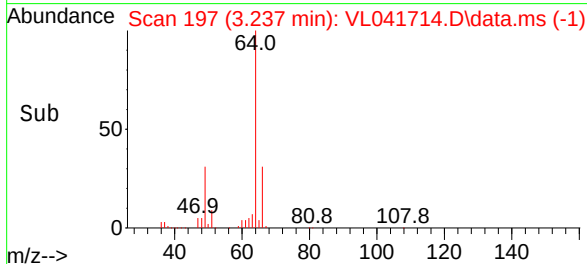
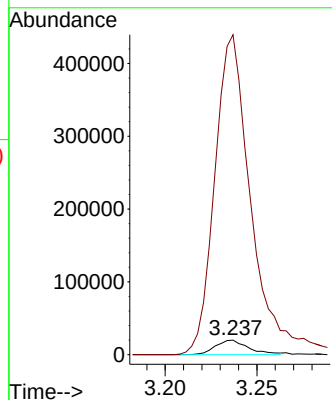
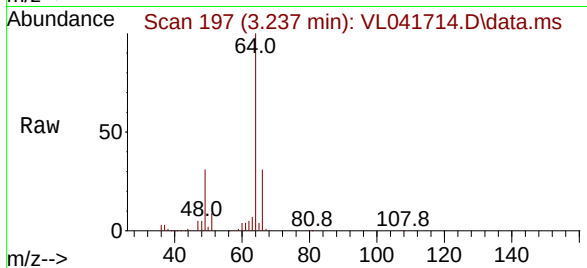




#5  
 Vinyl Chloride  
 Concen: 0.386 ppbv  
 RT: 3.237 min Scan# 197  
 Delta R.T. 0.289 min  
 Lab File: VL041714.D  
 Acq: 21 Nov 2024 14:12

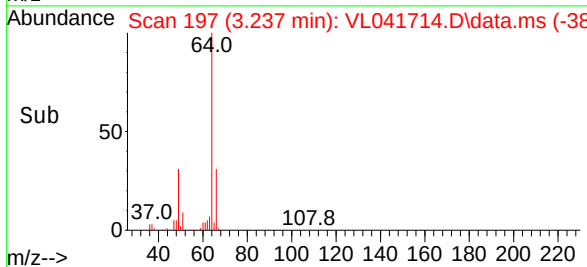
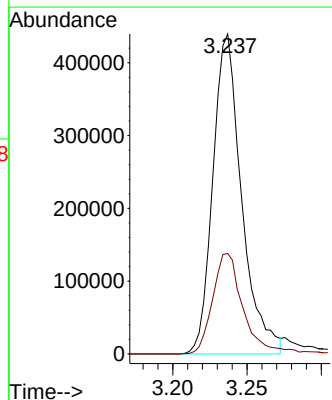
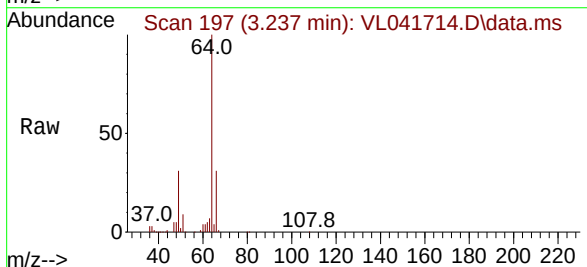
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 E070-1100DL

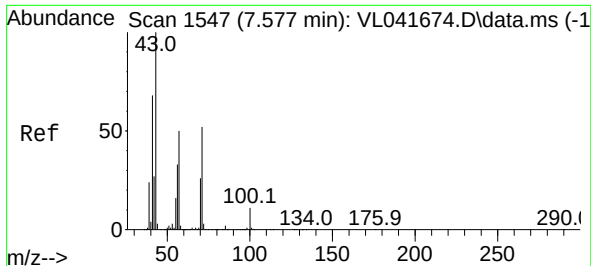
Tgt Ion: 62 Resp: 25032  
 Ion Ratio Lower Upper  
 62 100  
 64 2186.5 25.4 38.2#



#7  
 Chloroethane  
 Concen: 25.032 ppbv  
 RT: 3.237 min Scan# 197  
 Delta R.T. 0.010 min  
 Lab File: VL041714.D  
 Acq: 21 Nov 2024 14:12

Tgt Ion: 64 Resp: 591710  
 Ion Ratio Lower Upper  
 64 100  
 66 31.4 25.9 38.9





#10

Heptane

Concen: 12.088 ppbv

RT: 7.619 min Scan# 1

Delta R.T. 0.010 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

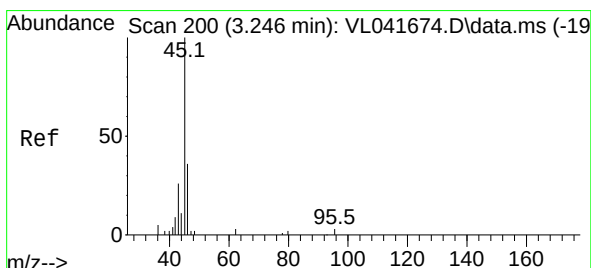
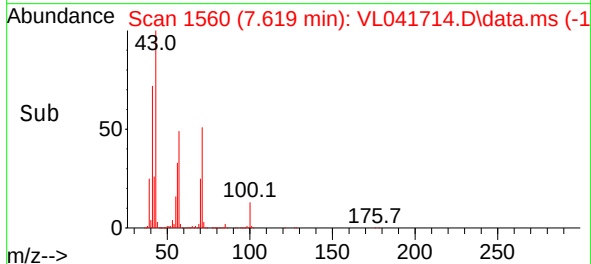
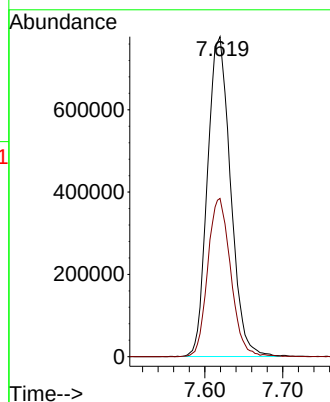
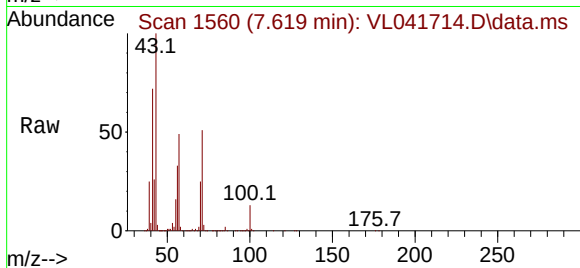
E070-1100DL

Tgt Ion: 43 Resp: 1604286

Ion Ratio Lower Upper

43 100

57 49.3 40.0 60.0



#13

Ethanol

Concen: 0.501 ppbv

RT: 3.288 min Scan# 213

Delta R.T. 0.013 min

Lab File: VL041714.D

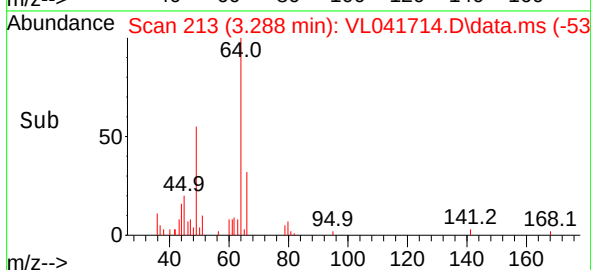
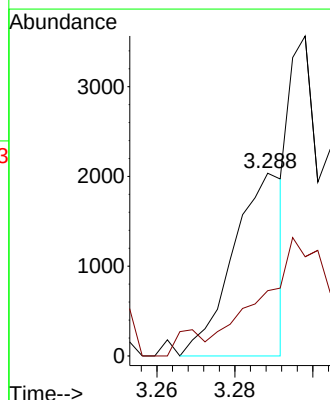
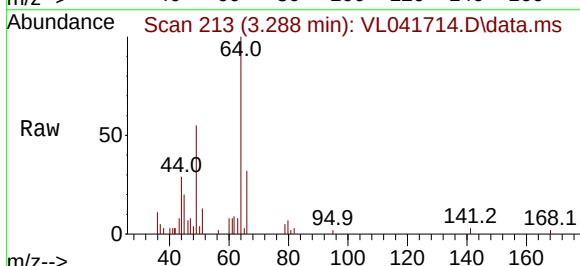
Acq: 21 Nov 2024 14:12

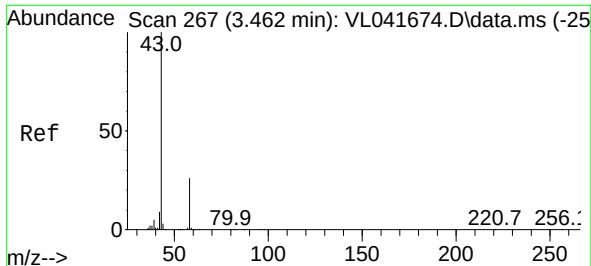
Tgt Ion: 45 Resp: 1816

Ion Ratio Lower Upper

45 100

46 0.0 13.8 55.2#





#15

Acetone

Concen: 1.053 ppbv

RT: 3.517 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

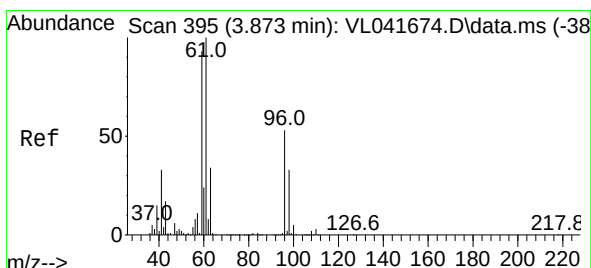
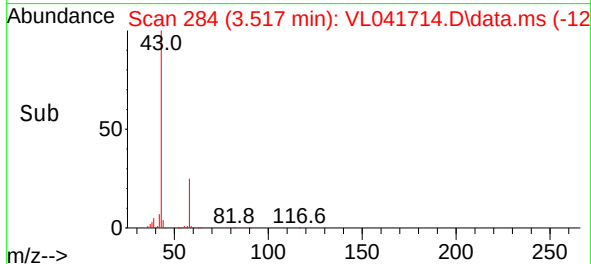
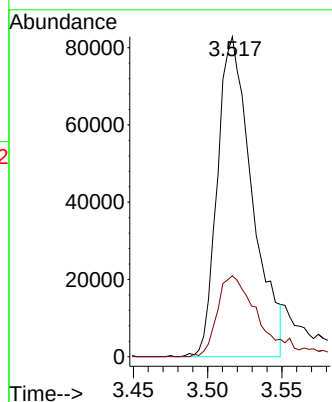
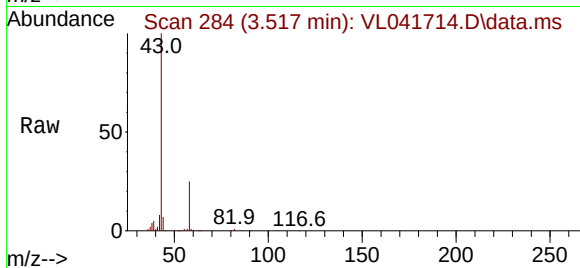
E070-1100DL

Tgt Ion: 43 Resp: 135154

Ion Ratio Lower Upper

43 100

58 31.9 21.4 32.0



#17

tert-Butyl alcohol

Concen: 0.331 ppbv

RT: 3.919 min Scan# 409

Delta R.T. 0.013 min

Lab File: VL041714.D

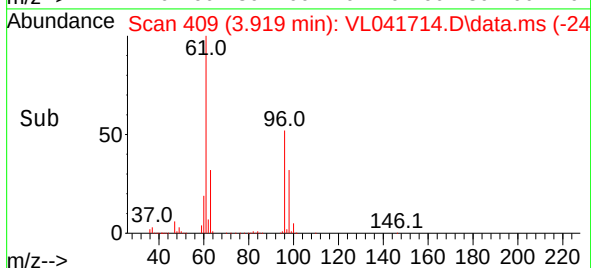
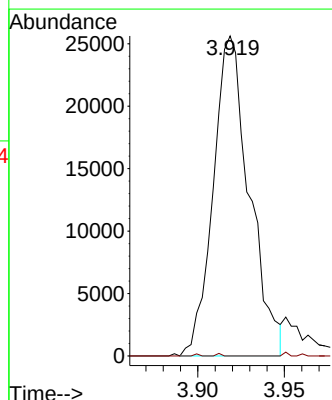
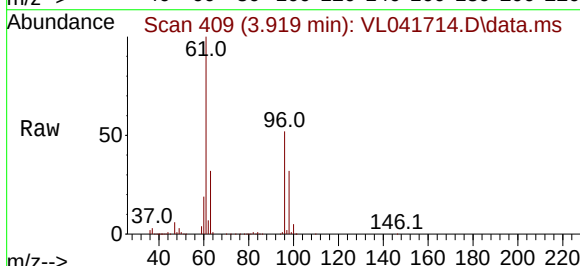
Acq: 21 Nov 2024 14:12

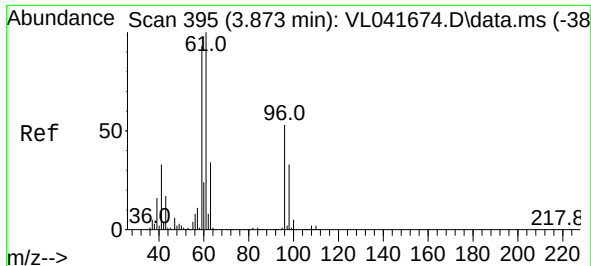
Tgt Ion: 59 Resp: 37245

Ion Ratio Lower Upper

59 100

57 0.2 8.5 12.7#





#18

1,1-Dichloroethene

Concen: 9.832 ppbv

RT: 3.919 min Scan# 409

Delta R.T. 0.010 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA\_1

ClientSampleId :

E070-1100DL

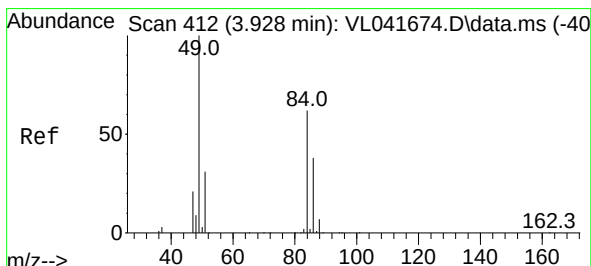
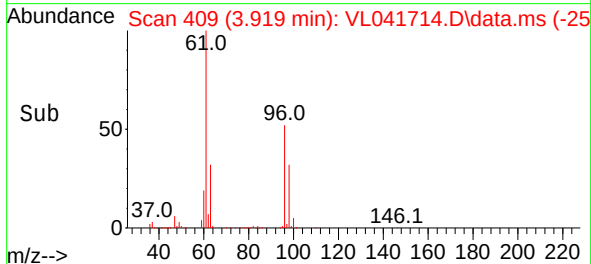
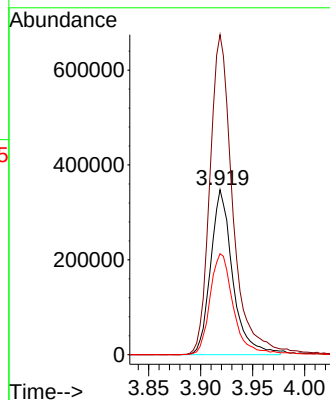
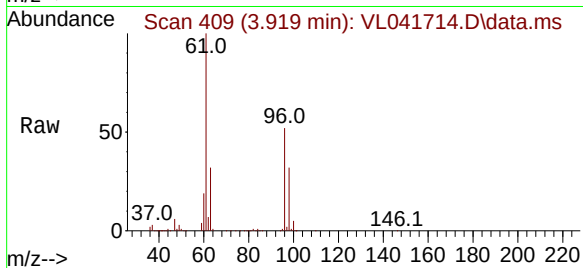
Tgt Ion: 96 Resp: 514801

Ion Ratio Lower Upper

96 100

61 194.0 150.7 226.1

98 61.1 49.4 74.2



#20

Methylene Chloride

Concen: 0.290 ppbv

RT: 3.970 min Scan# 425

Delta R.T. 0.010 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Tgt Ion: 84 Resp: 13688

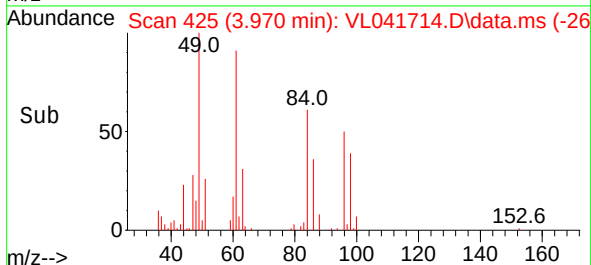
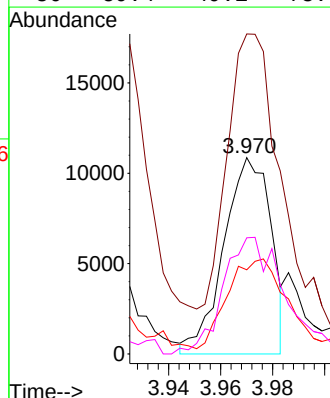
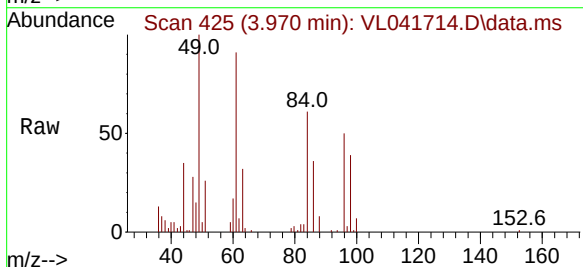
Ion Ratio Lower Upper

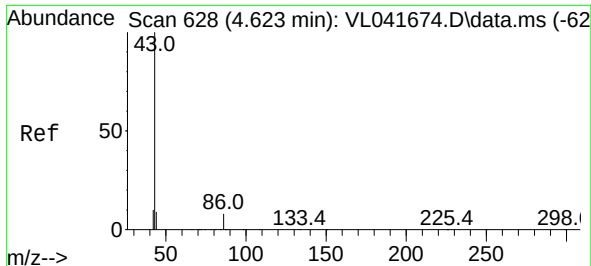
84 100

49 144.3 129.7 194.5

51 40.1 39.8 59.6

86 59.4 49.1 73.7



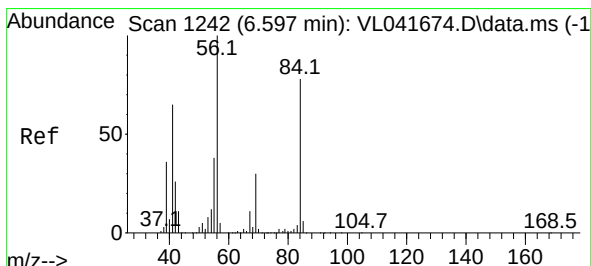
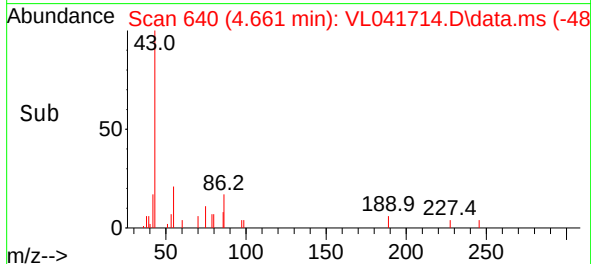
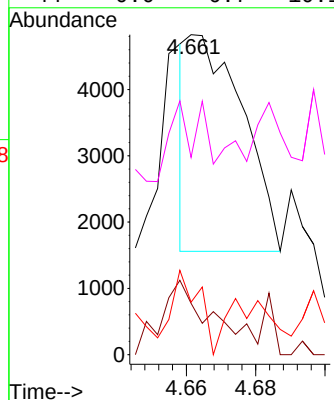
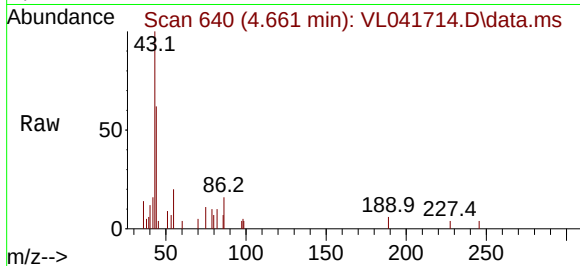


#23  
 Vinyl Acetate  
 Concen: 0.064 ppbv  
 RT: 4.661 min Scan# 640  
 Delta R.T. 0.006 min  
 Lab File: VL041714.D  
 Acq: 21 Nov 2024 14:12

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 E070-1100DL

Tgt Ion: 43 Resp: 3624

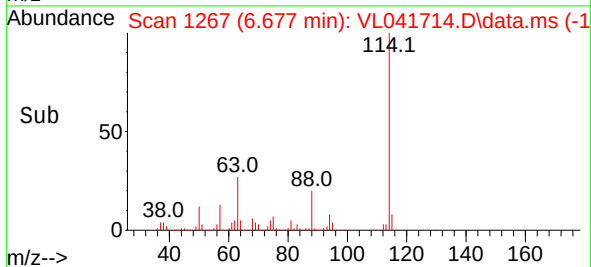
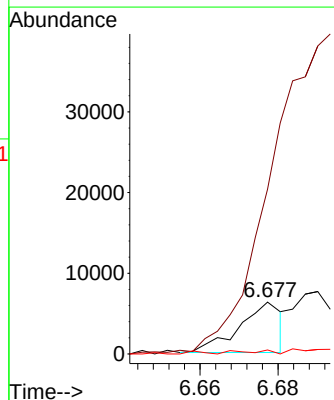
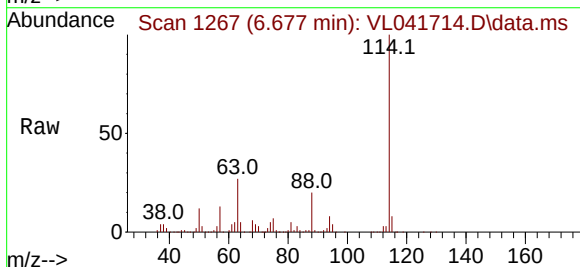
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 23.7  | 5.3   | 7.9#  |
| 42  | 12.5  | 8.5   | 12.7  |
| 44  | 0.0   | 6.7   | 10.1# |

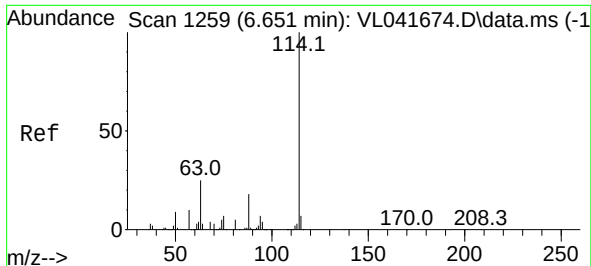


#30  
 Cyclohexane  
 Concen: 0.054 ppbv  
 RT: 6.677 min Scan# 1267  
 Delta R.T. 0.045 min  
 Lab File: VL041714.D  
 Acq: 21 Nov 2024 14:12

Tgt Ion: 84 Resp: 4721

| Ion | Ratio  | Lower | Upper  |
|-----|--------|-------|--------|
| 84  | 100    |       |        |
| 56  | 1662.0 | 110.8 | 166.2# |
| 41  | 21.8   | 70.0  | 105.0# |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.690 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

E070-1100DL

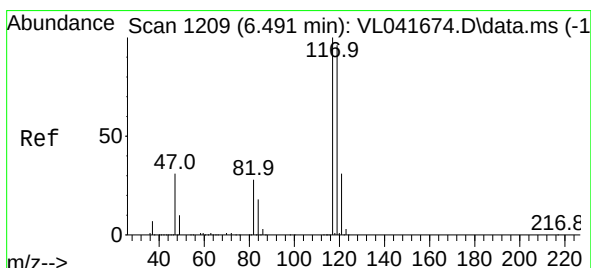
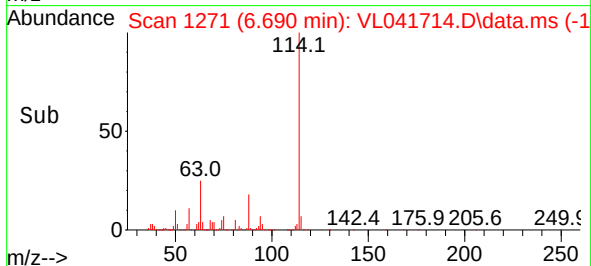
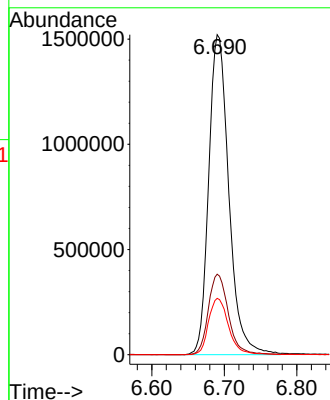
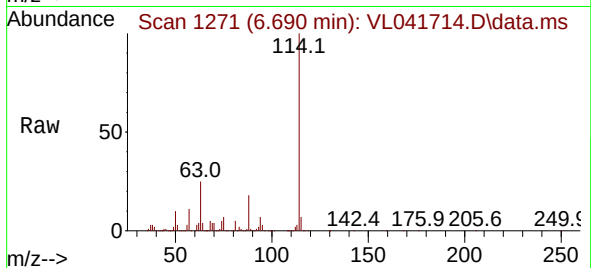
Tgt Ion:114 Resp: 2930669

Ion Ratio Lower Upper

114 100

63 25.2 20.3 30.5

88 17.6 14.2 21.4



#35

Carbon Tetrachloride

Concen: 13.562 ppbv

RT: 6.533 min Scan# 1222

Delta R.T. 0.006 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

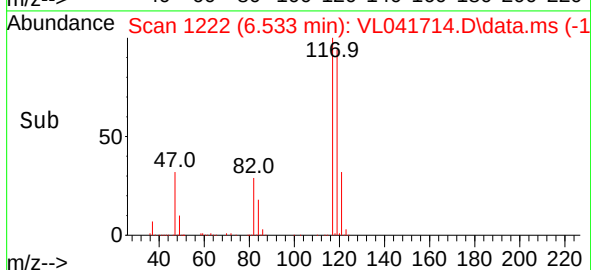
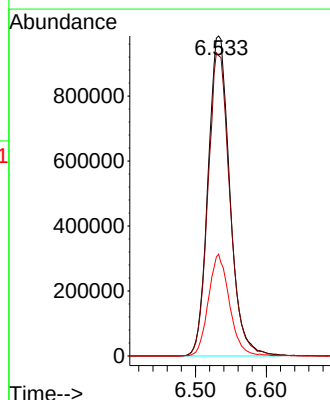
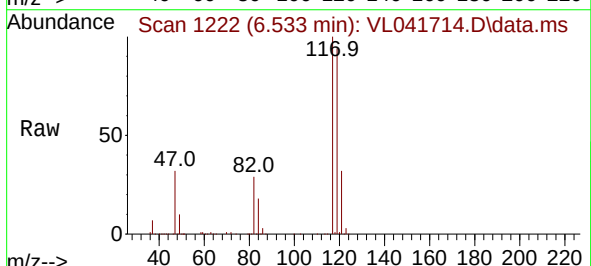
Tgt Ion:117 Resp: 2096970

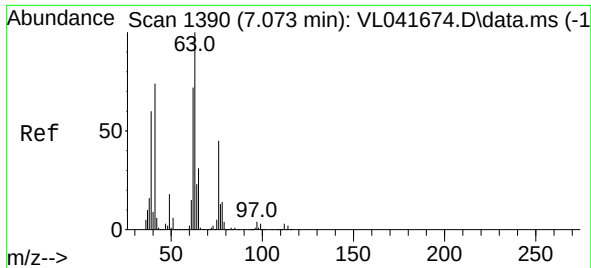
Ion Ratio Lower Upper

117 100

119 93.8 77.2 115.8

121 31.8 25.0 37.4

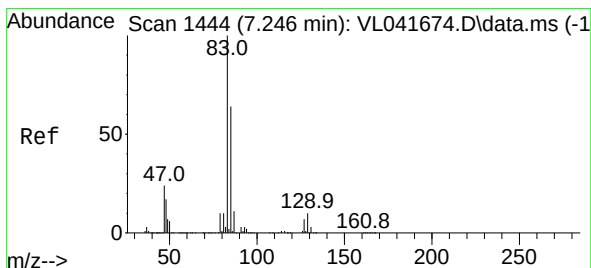
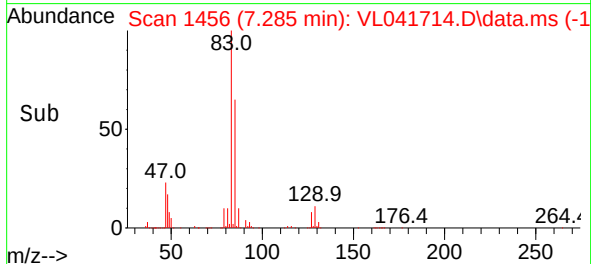
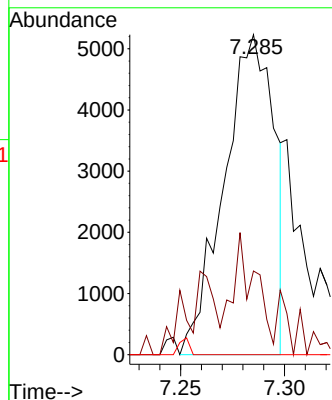
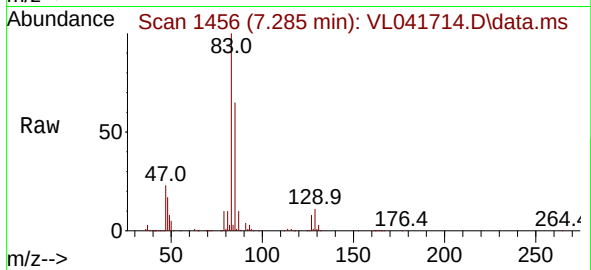




#39  
1,2-Dichloropropane  
Concen: 0.102 ppbv  
RT: 7.285 min Scan# 1456  
Delta R.T. 0.177 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

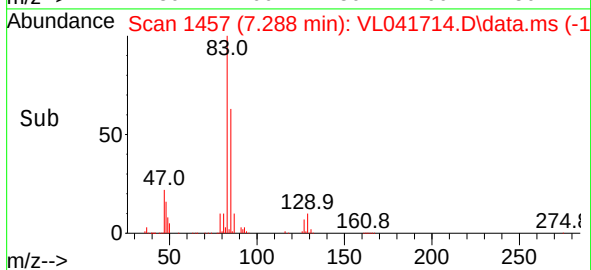
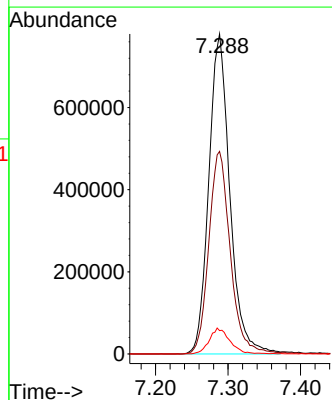
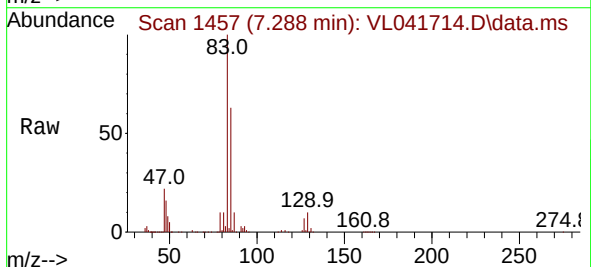
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL

Tgt Ion: 63 Resp: 8788  
Ion Ratio Lower Upper  
63 100  
41 17.0 59.1 88.7#  
62 0.0 57.7 86.5#

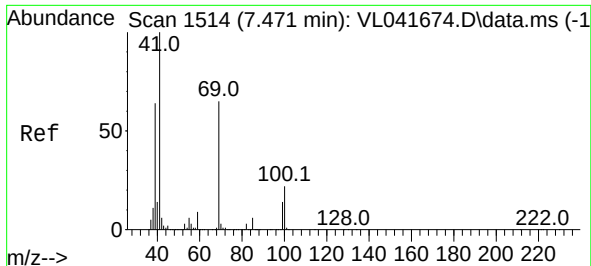


#42  
Bromodichloromethane  
Concen: 9.230 ppbv  
RT: 7.288 min Scan# 1457  
Delta R.T. 0.006 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

Tgt Ion: 83 Resp: 1571344  
Ion Ratio Lower Upper  
83 100  
85 63.3 51.2 76.8  
127 7.3 6.0 9.0







#43

Methyl Methacrylate

Concen: 0.175 ppbv

RT: 7.600 min Scan# 1554

Delta R.T. 0.093 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA\_1

ClientSampleId :

E070-1100DL

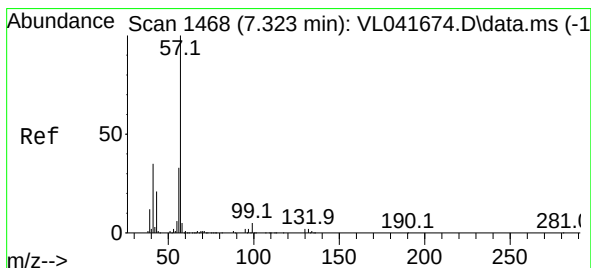
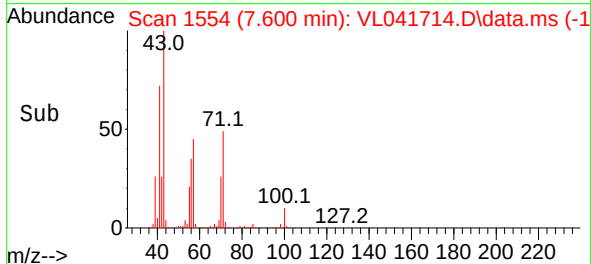
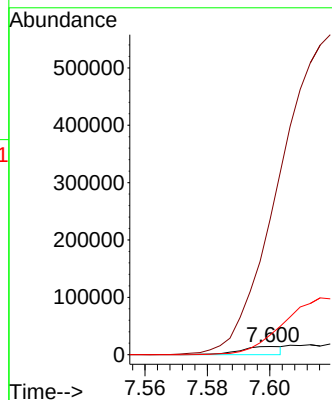
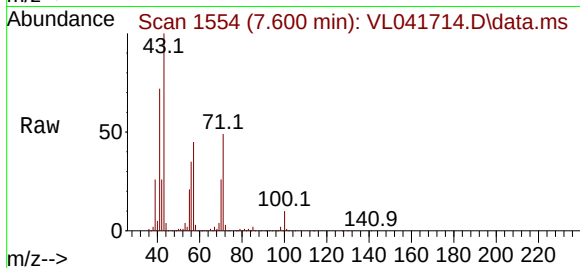
Tgt Ion: 69 Resp: 13341

Ion Ratio Lower Upper

69 100

41 0.0 119.8 179.6#

100 0.0 27.3 40.9#



#44

2,2,4-Trimethylpentane

Concen: 2.132 ppbv

RT: 7.619 min Scan# 1560

Delta R.T. 0.264 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

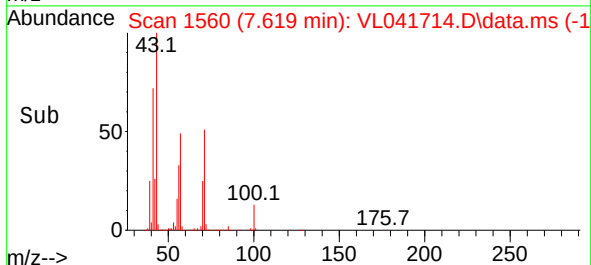
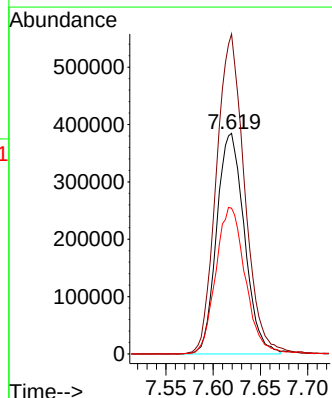
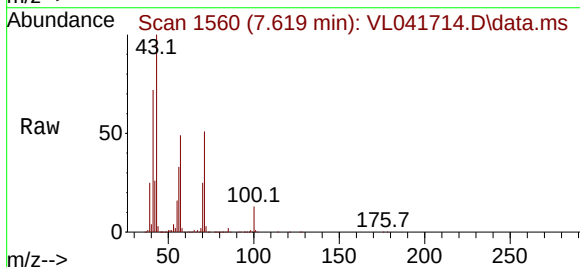
Tgt Ion: 57 Resp: 784336

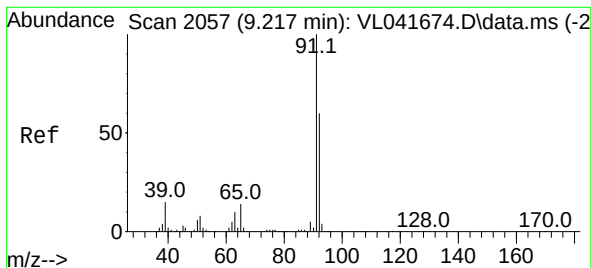
Ion Ratio Lower Upper

57 100

41 148.2 27.0 40.6#

56 71.2 25.8 38.6#





#53

Toluene

Concen: 21.298 ppbv

RT: 9.259 min Scan# 2057

Delta R.T. 0.007 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA\_1

ClientSampleId :

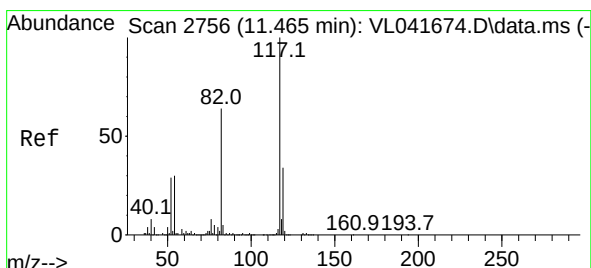
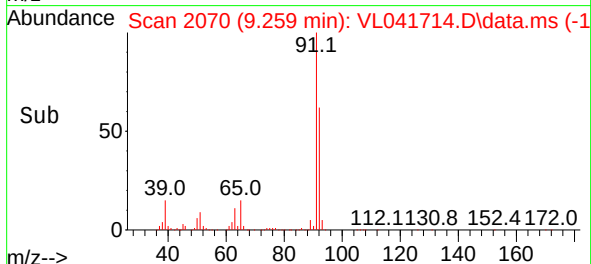
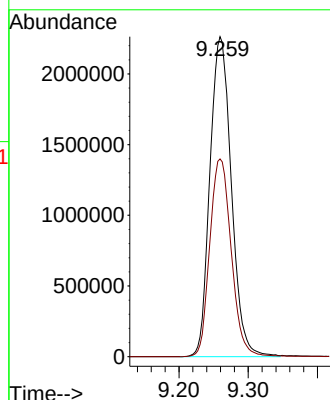
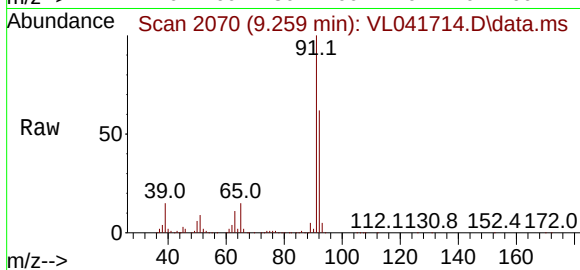
E070-1100DL

Tgt Ion: 91 Resp: 4863423

Ion Ratio Lower Upper

91 100

92 62.1 49.0 73.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.504 min Scan# 2768

Delta R.T. 0.007 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

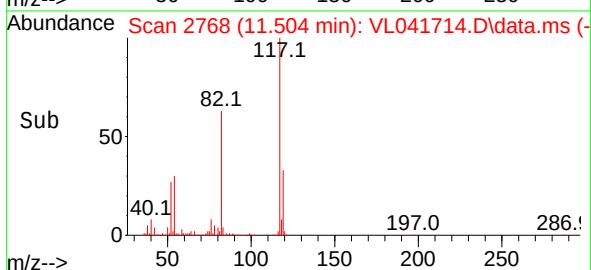
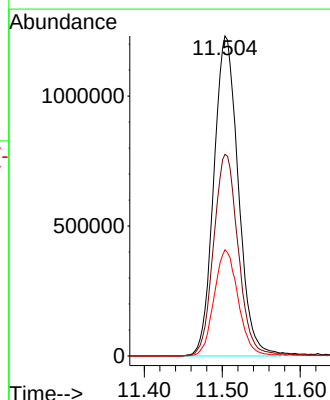
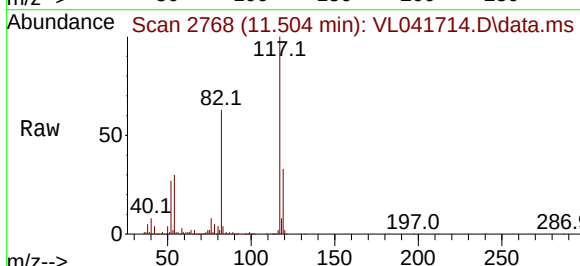
Tgt Ion: 117 Resp: 2692925

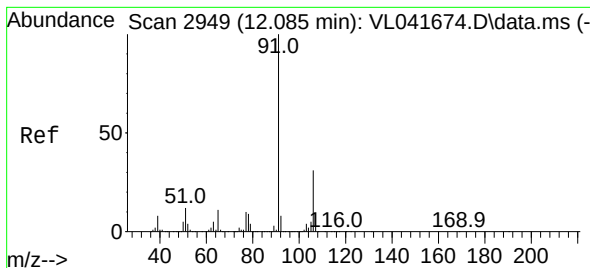
Ion Ratio Lower Upper

117 100

82 64.3 49.8 74.8

119 32.9 24.2 36.4





#58

Ethyl Benzene

Concen: 19.867 ppbv

RT: 12.413 min Scan# 3051

Delta R.T. 0.293 min

Lab File: VL041714.D

Acq: 21 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

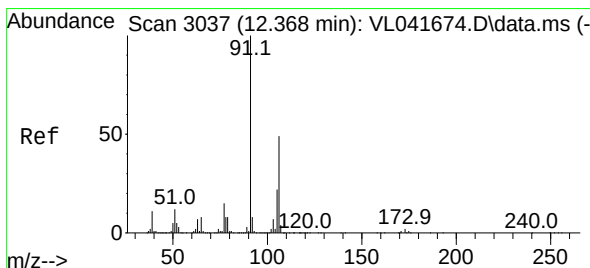
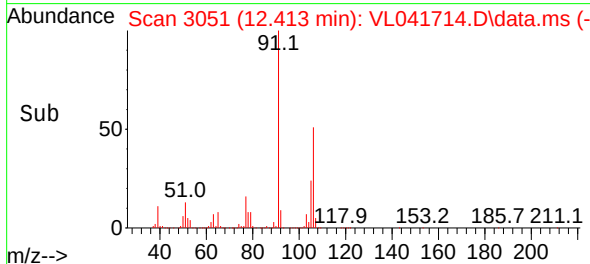
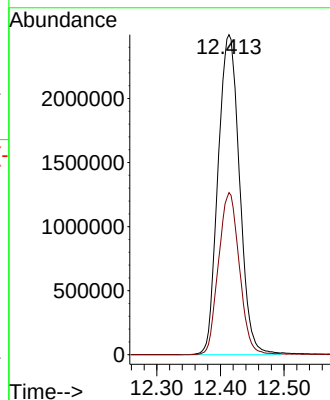
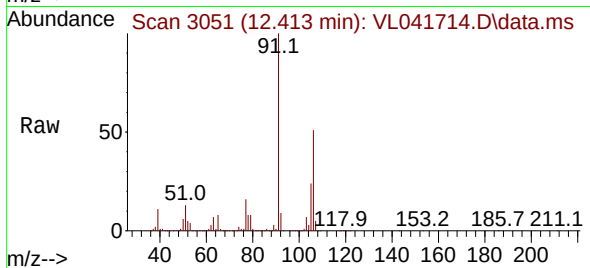
E070-1100DL

Tgt Ion: 91 Resp: 5865203

Ion Ratio Lower Upper

91 100

106 50.7 24.9 37.3#



#59

m/p-Xylene

Concen: 22.185 ppbv

RT: 12.413 min Scan# 3051

Delta R.T. 0.010 min

Lab File: VL041714.D

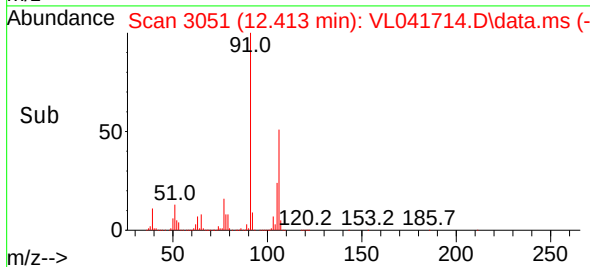
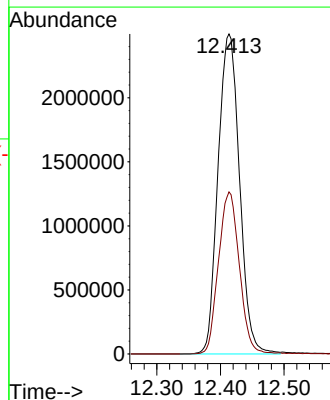
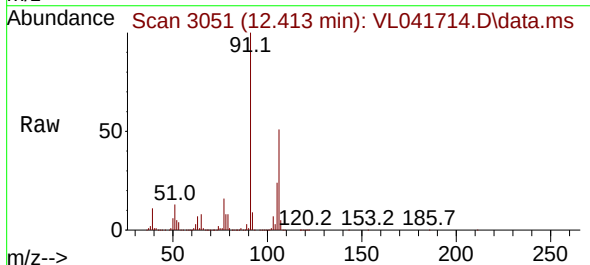
Acq: 21 Nov 2024 14:12

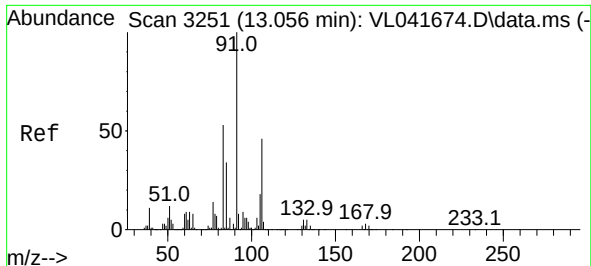
Tgt Ion: 91 Resp: 5865203

Ion Ratio Lower Upper

91 100

106 49.3 36.9 55.3

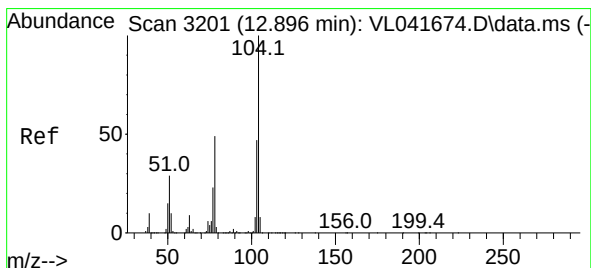
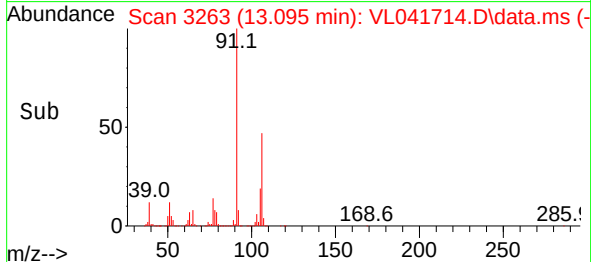
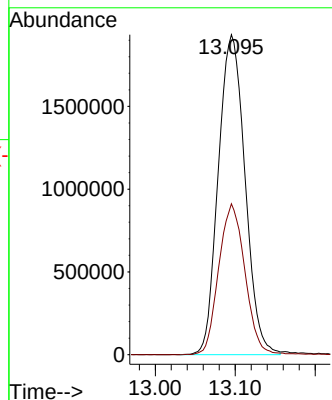
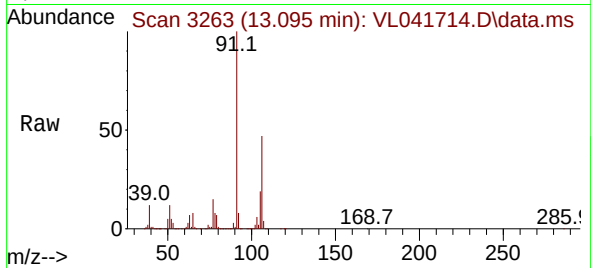




#60  
o-Xylene  
Concen: 17.783 ppbv  
RT: 13.095 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

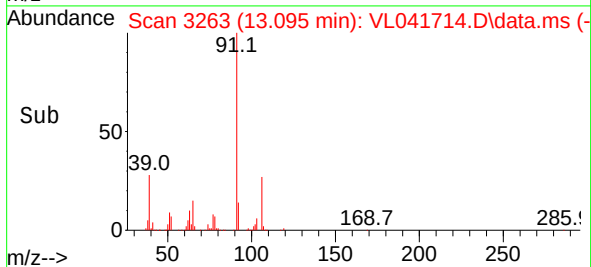
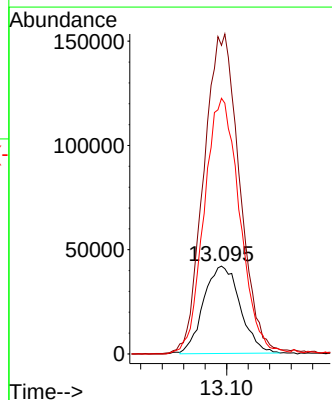
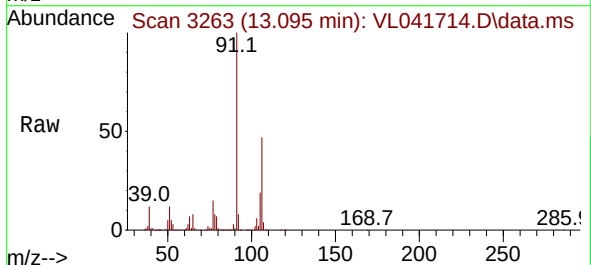
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL

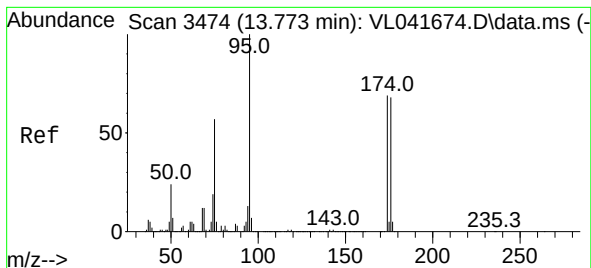
Tgt Ion: 91 Resp: 4483154  
Ion Ratio Lower Upper  
91 100  
106 46.5 23.2 69.6



#61  
Styrene  
Concen: 0.949 ppbv  
RT: 13.095 min Scan# 3263  
Delta R.T. 0.167 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

Tgt Ion:104 Resp: 98730  
Ion Ratio Lower Upper  
104 100  
78 365.2 39.8 59.8#  
103 287.5 37.4 56.0#

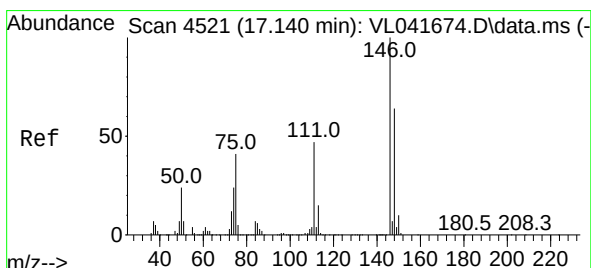
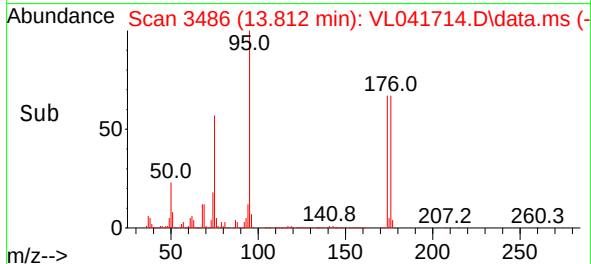
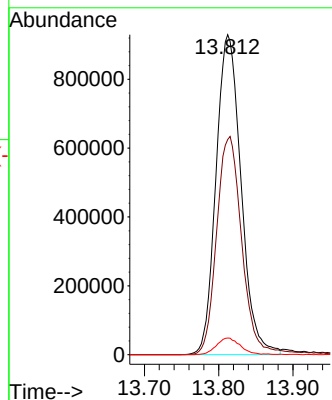
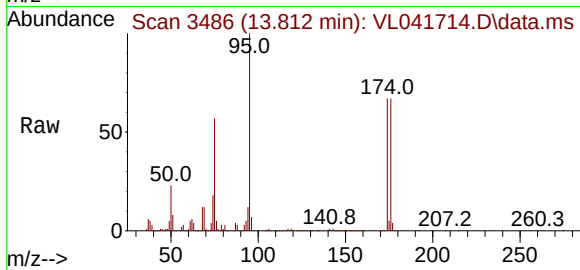




#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.994 ppbv  
RT: 13.812 min Scan# 3474  
Delta R.T. 0.006 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

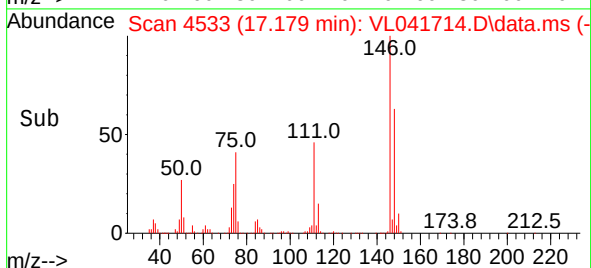
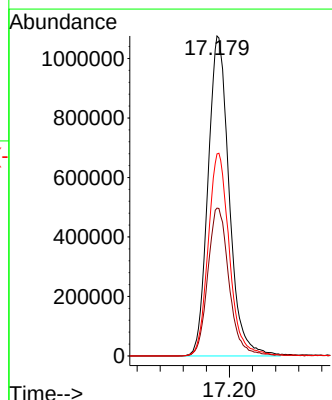
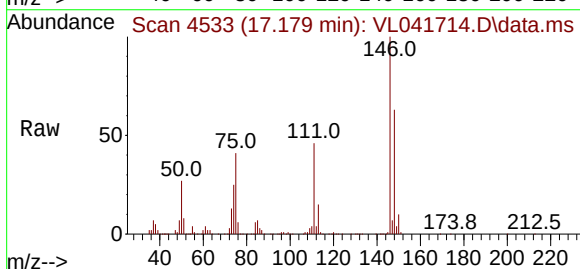
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL

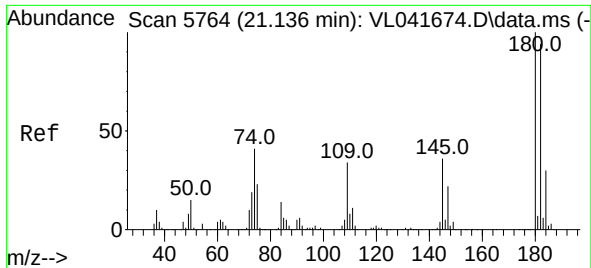
Tgt Ion: 95 Resp: 2181457  
Ion Ratio Lower Upper  
95 100  
174 69.7 55.6 83.4  
175 5.1 4.2 6.2



#77  
1,2-Dichlorobenzene  
Concen: 14.901 ppbv  
RT: 17.179 min Scan# 4533  
Delta R.T. 0.003 min  
Lab File: VL041714.D  
Acq: 21 Nov 2024 14:12

Tgt Ion:146 Resp: 2731245  
Ion Ratio Lower Upper  
146 100  
111 46.8 23.4 70.3  
148 63.9 32.1 96.5





#81

1,2,4-Trichlorobenzene

Concen: 11.723 ppbv

RT: 21.182 min Scan# 51

Delta R.T. 0.006 min

Lab File: VL041714.D

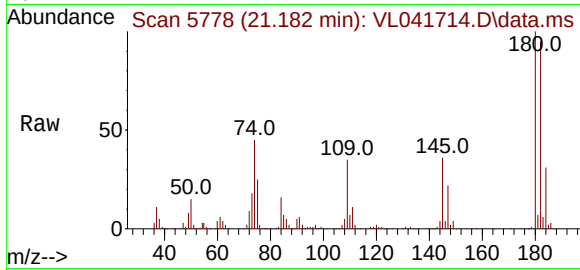
Acq: 21 Nov 2024 14:12

Instrument :

MSVOA\_L

ClientSampleId :

E070-1100DL



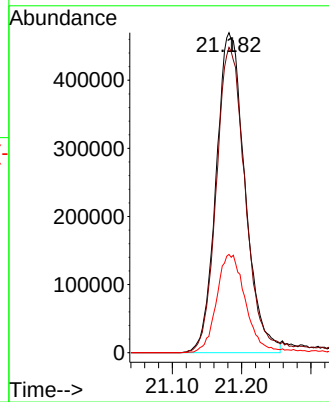
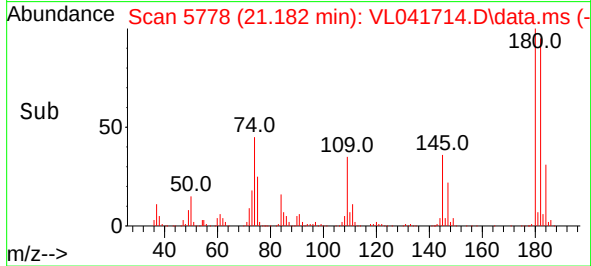
Tgt Ion:180 Resp: 1359517

Ion Ratio Lower Upper

180 100

182 99.3 78.2 117.2

184 31.4 25.0 37.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL112124\  
 Data File : VL041715.D  
 Acq On : 21 Nov 2024 15:06  
 Operator : SY/MD  
 Sample : P4633-01DL2 4X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 E070-1100DL2

Quant Time: Nov 22 01:08:22 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 22 01:00:55 2024  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.230  | 49   | 1063727  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.687  | 114  | 2922287  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.503 | 117  | 2654968  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.812 | 95    | 2071565  | 10.590   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 105.900% |

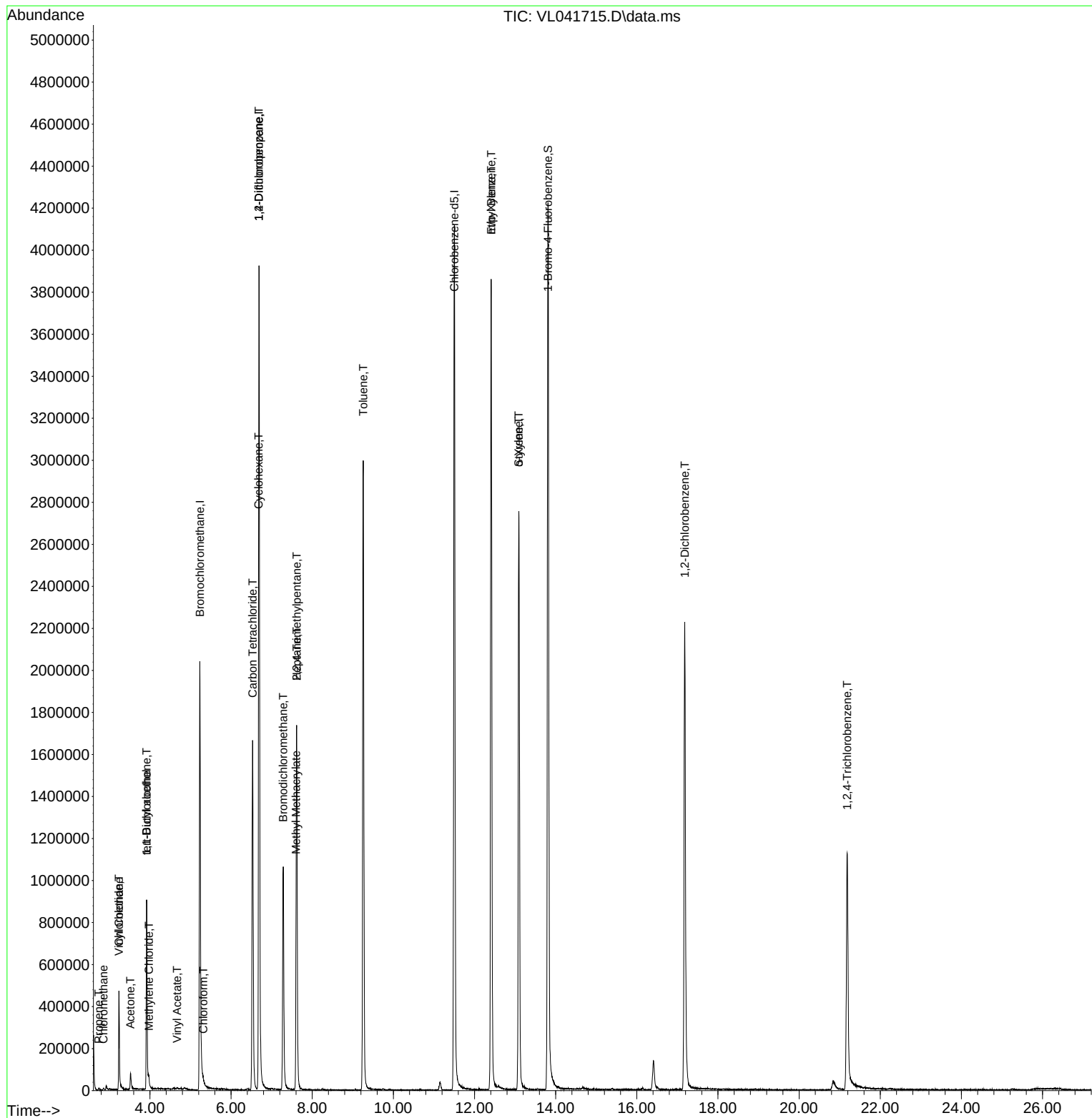
| Target Compounds           | R.T.   | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|--------|------|----------|--------|--------|--------|
| 4) Chloromethane           | 2.854  | 50   | 7310     | 0.100  | ppbv # | 81     |
| 5) Vinyl Chloride          | 3.234  | 62   | 5697     | 0.086  | ppbv # | 1      |
| 7) Chloroethane            | 3.237  | 64   | 289174   | 11.998 | ppbv   | 100    |
| 9) Propene                 | 2.738  | 41   | 3576     | 0.059  | ppbv   | 88     |
| 10) Heptane                | 7.616  | 43   | 750273   | 5.544  | ppbv   | 99     |
| 15) Acetone                | 3.520  | 43   | 85358    | 0.652  | ppbv   | 91     |
| 17) tert-Butyl alcohol     | 3.918  | 59   | 18040    | 0.157  | ppbv # | 72     |
| 18) 1,1-Dichloroethene     | 3.918  | 96   | 244142   | 4.573  | ppbv   | 96     |
| 20) Methylene Chloride     | 3.973  | 84   | 8783     | 0.182  | ppbv   | 89     |
| 23) Vinyl Acetate          | 4.668  | 43   | 4465     | 0.077  | ppbv # | 82     |
| 29) Chloroform             | 5.314  | 83   | 5891     | 0.034  | ppbv # | 70     |
| 30) Cyclohexane            | 6.677  | 84   | 7038     | 0.079  | ppbv # | 1      |
| 35) Carbon Tetrachloride   | 6.532  | 117  | 1025832  | 6.653  | ppbv   | 97     |
| 39) 1,2-Dichloropropane    | 6.687  | 63   | 730607   | 8.539  | ppbv # | 23     |
| 42) Bromodichloromethane   | 7.285  | 83   | 734738   | 4.328  | ppbv   | 99     |
| 43) Methyl Methacrylate    | 7.600  | 69   | 10811    | 0.142  | ppbv # | 1      |
| 44) 2,2,4-Trimethylpentane | 7.616  | 57   | 370349   | 1.010  | ppbv # | 1      |
| 53) Toluene                | 9.256  | 91   | 2347642  | 10.310 | ppbv   | 100    |
| 58) Ethyl Benzene          | 12.410 | 91   | 2844916  | 9.774  | ppbv # | 69     |
| 59) m/p-Xylene             | 12.410 | 91   | 2844916  | 10.915 | ppbv   | 96     |
| 60) o-Xylene               | 13.092 | 91   | 2141646  | 8.617  | ppbv   | 100    |
| 61) Styrene                | 13.092 | 104  | 28930    | 0.282  | ppbv # | 1      |
| 77) 1,2-Dichlorobenzene    | 17.182 | 146  | 1217081  | 6.735  | ppbv   | 100    |
| 81) 1,2,4-Trichlorobenzene | 21.188 | 180  | 511649   | 4.475  | ppbv   | 95     |

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

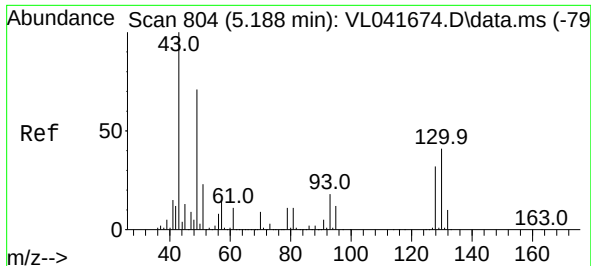
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Data File : VL041715.D  
Acq On : 21 Nov 2024 15:06  
Operator : SY/MD  
Sample : P4633-01DL2 4X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL2

Quant Time: Nov 22 01:08:22 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 22 01:00:55 2024  
Response via : Initial Calibration



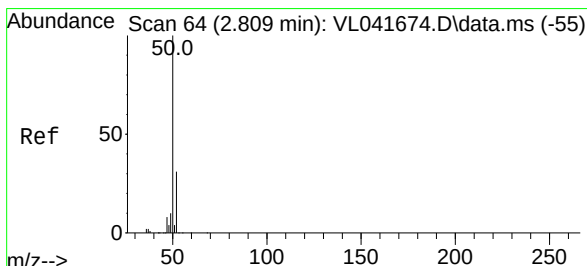
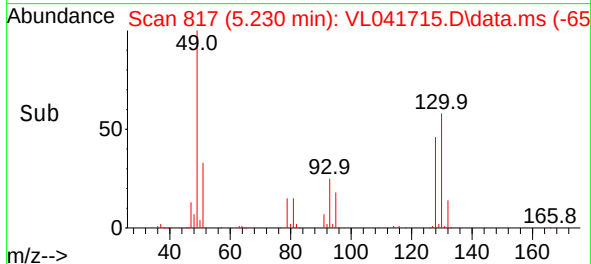
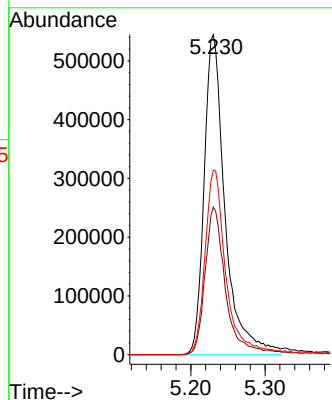
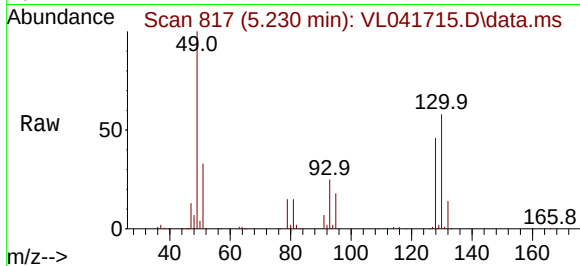




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.230 min Scan# 81  
Delta R.T. 0.009 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

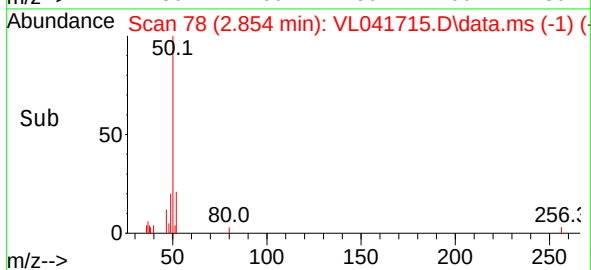
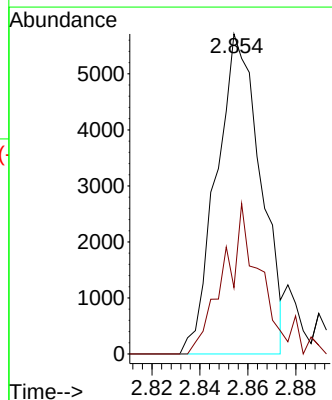
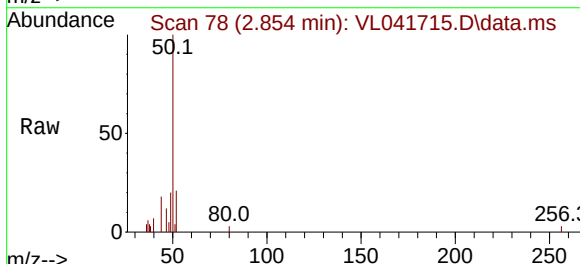
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL2

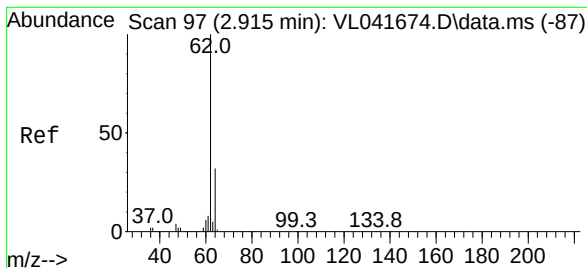
Tgt Ion: 49 Resp: 1063727  
Ion Ratio Lower Upper  
49 100  
128 46.3 23.8 71.2  
130 59.8 30.1 90.5



#4  
Chloromethane  
Concen: 0.100 ppbv  
RT: 2.854 min Scan# 78  
Delta R.T. 0.013 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

Tgt Ion: 50 Resp: 7310  
Ion Ratio Lower Upper  
50 100  
52 20.8 24.9 37.3#

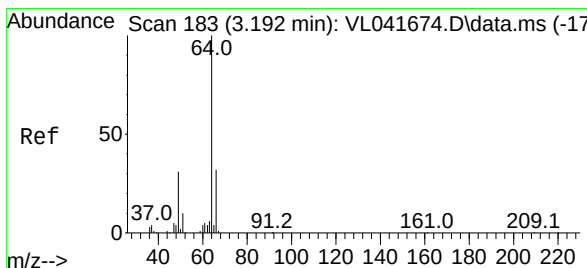
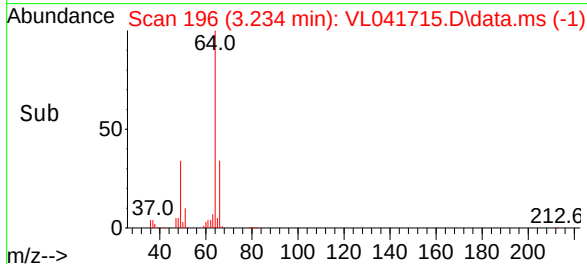
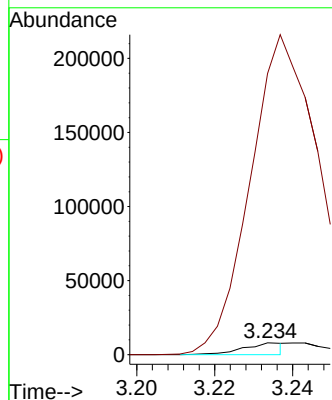
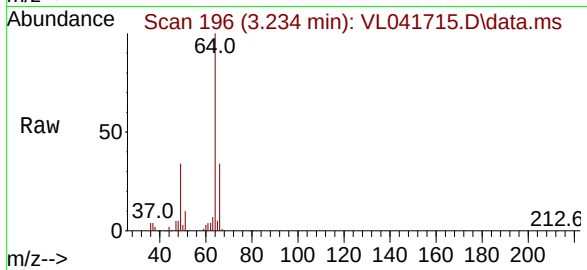




#5  
 Vinyl Chloride  
 Concen: 0.086 ppbv  
 RT: 3.234 min Scan# 196  
 Delta R.T. 0.286 min  
 Lab File: VL041715.D  
 Acq: 21 Nov 2024 15:06

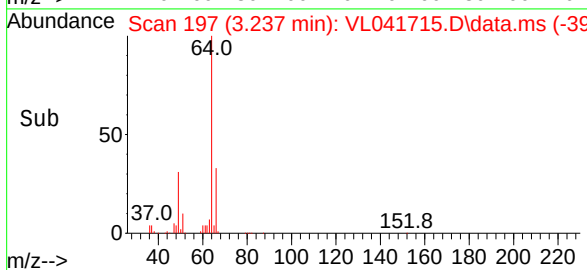
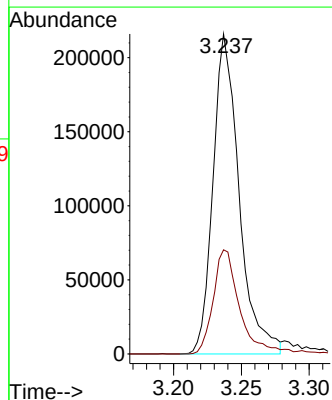
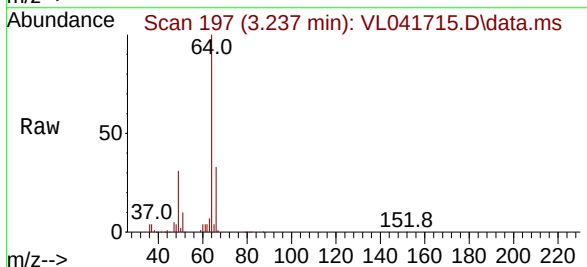
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 E070-1100DL2

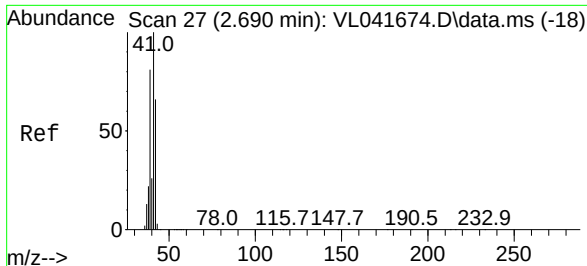
Tgt Ion: 62 Resp: 5697  
 Ion Ratio Lower Upper  
 62 100  
 64 2366.3 25.4 38.2#



#7  
 Chloroethane  
 Concen: 11.998 ppbv  
 RT: 3.237 min Scan# 197  
 Delta R.T. 0.010 min  
 Lab File: VL041715.D  
 Acq: 21 Nov 2024 15:06

Tgt Ion: 64 Resp: 289174  
 Ion Ratio Lower Upper  
 64 100  
 66 32.6 25.9 38.9





#9

Propene

Concen: 0.059 ppbv

RT: 2.738 min Scan# 41

Delta R.T. 0.016 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA\_L

ClientSampleId :

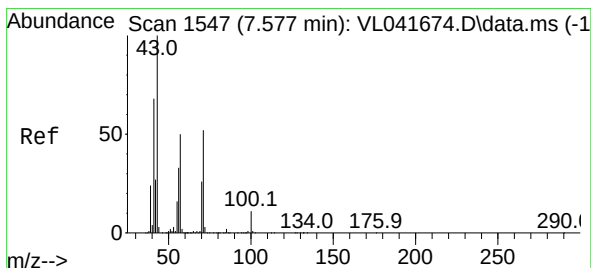
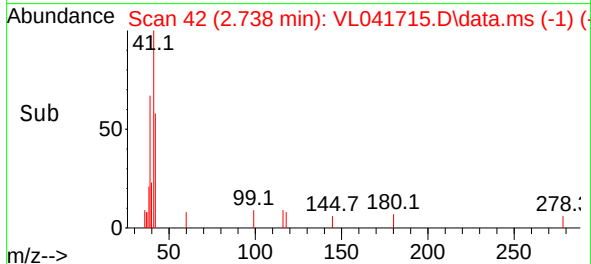
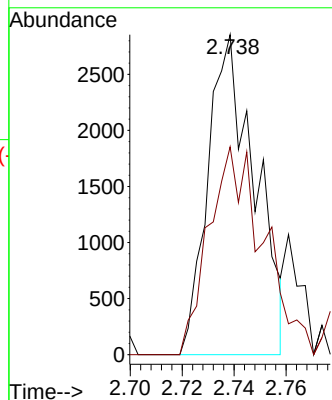
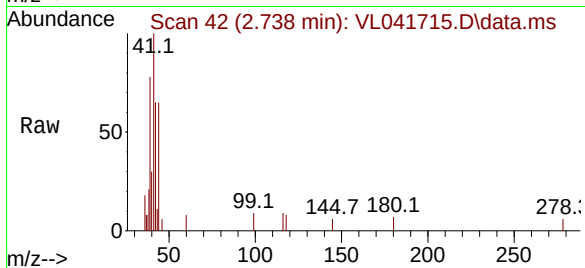
E070-1100DL2

Tgt Ion: 41 Resp: 3576

Ion Ratio Lower Upper

41 100

42 78.7 55.0 82.4



#10

Heptane

Concen: 5.544 ppbv

RT: 7.616 min Scan# 1559

Delta R.T. 0.006 min

Lab File: VL041715.D

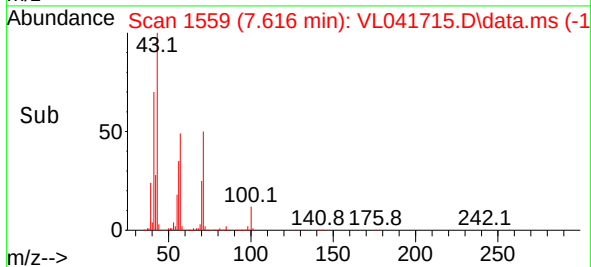
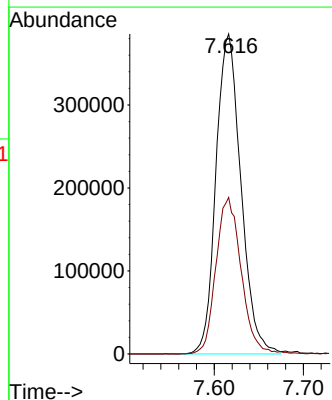
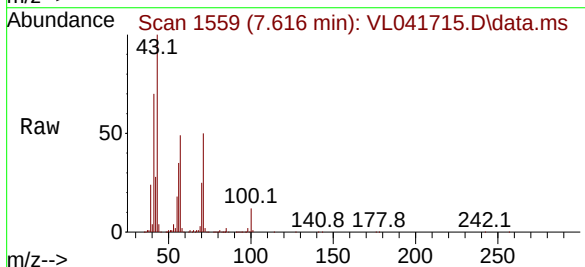
Acq: 21 Nov 2024 15:06

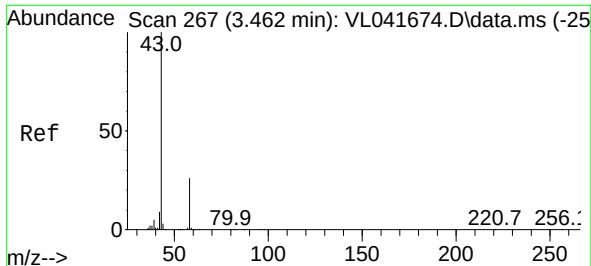
Tgt Ion: 43 Resp: 750273

Ion Ratio Lower Upper

43 100

57 49.6 40.0 60.0





#15

Acetone

Concen: 0.652 ppbv

RT: 3.520 min Scan# 21

Delta R.T. 0.022 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA\_L

ClientSampleId :

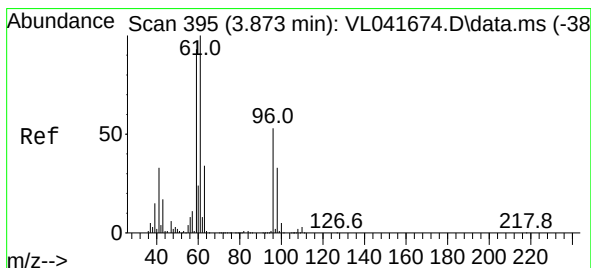
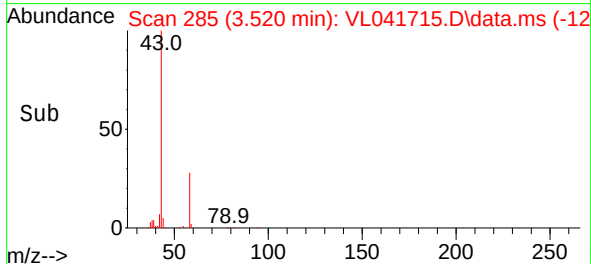
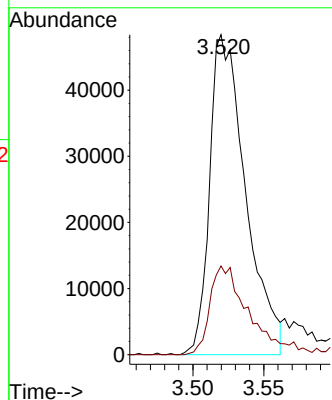
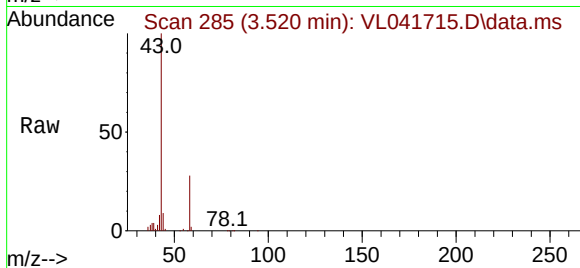
E070-1100DL2

Tgt Ion: 43 Resp: 85358

Ion Ratio Lower Upper

43 100

58 31.5 21.4 32.0



#17

tert-Butyl alcohol

Concen: 0.157 ppbv

RT: 3.918 min Scan# 409

Delta R.T. 0.013 min

Lab File: VL041715.D

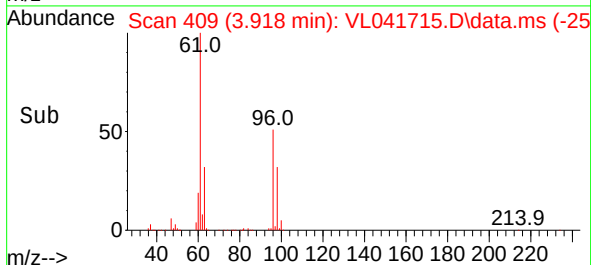
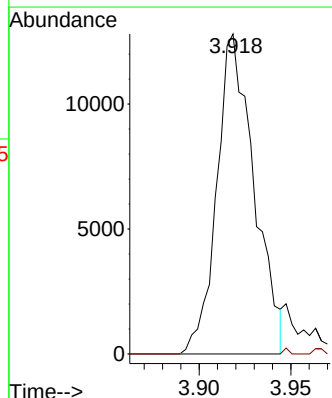
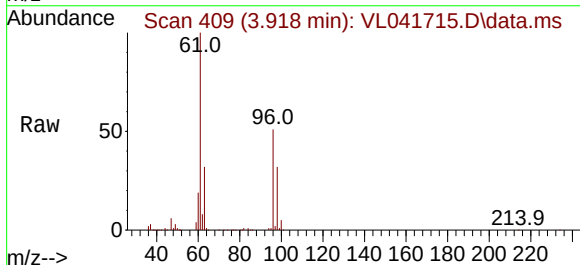
Acq: 21 Nov 2024 15:06

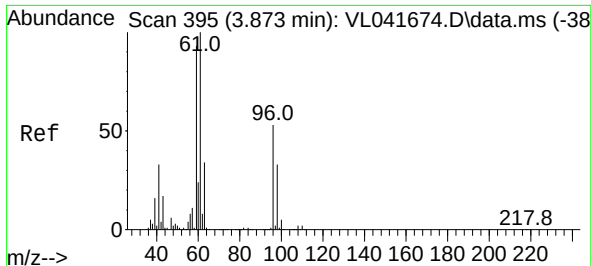
Tgt Ion: 59 Resp: 18040

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#18

1,1-Dichloroethene

Concen: 4.573 ppbv

RT: 3.918 min Scan# 409

Delta R.T. 0.010 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA\_L

ClientSampleId :

E070-1100DL2

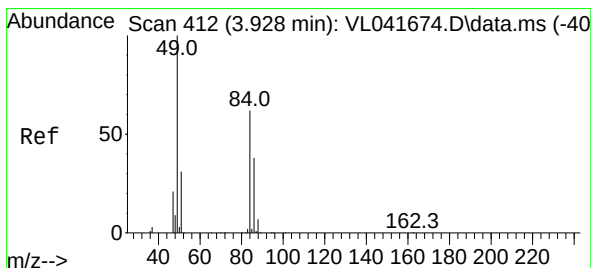
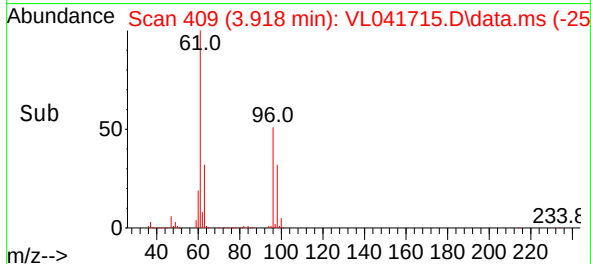
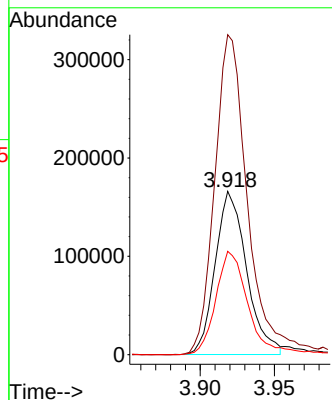
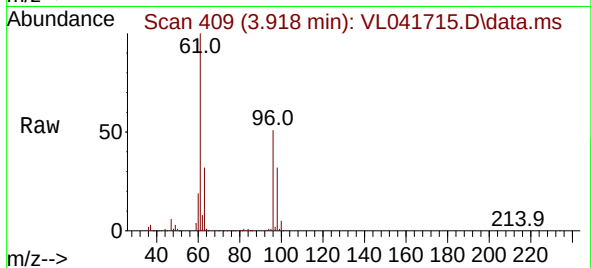
Tgt Ion: 96 Resp: 244142

Ion Ratio Lower Upper

96 100

61 196.1 150.7 226.1

98 63.3 49.4 74.2



#20

Methylene Chloride

Concen: 0.182 ppbv

RT: 3.973 min Scan# 426

Delta R.T. 0.013 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Tgt Ion: 84 Resp: 8783

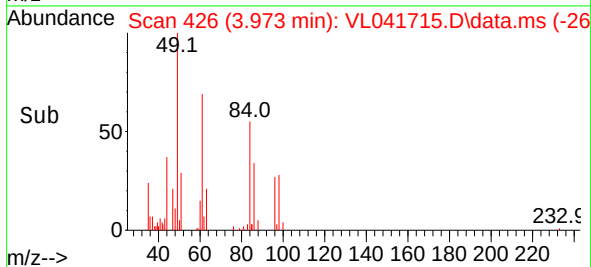
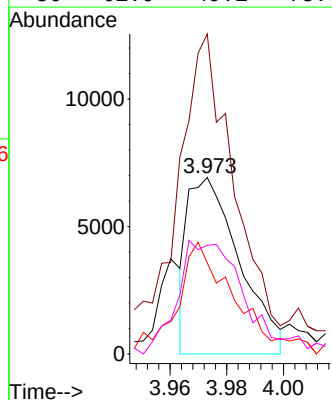
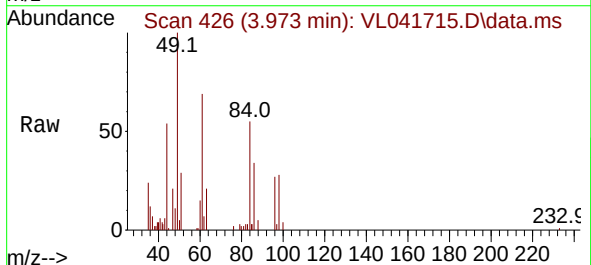
Ion Ratio Lower Upper

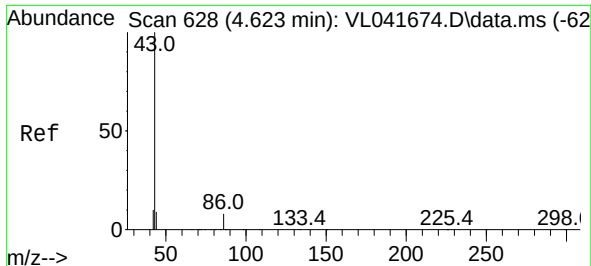
84 100

49 186.3 129.7 194.5

51 49.9 39.8 59.6

86 61.9 49.1 73.7

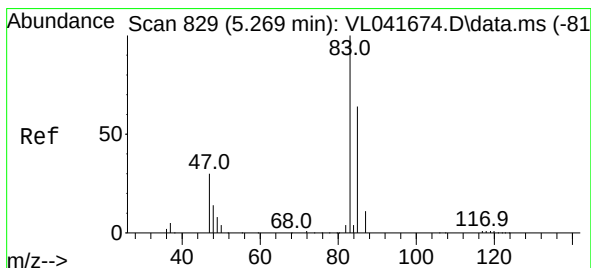
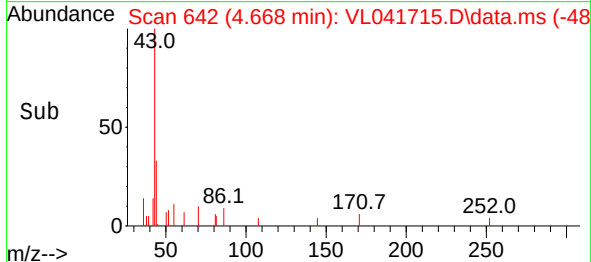
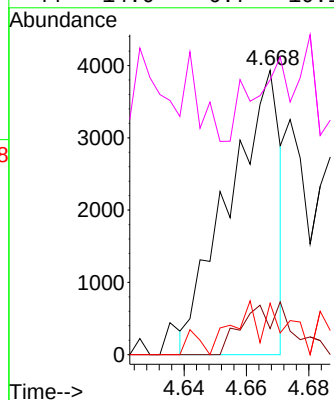
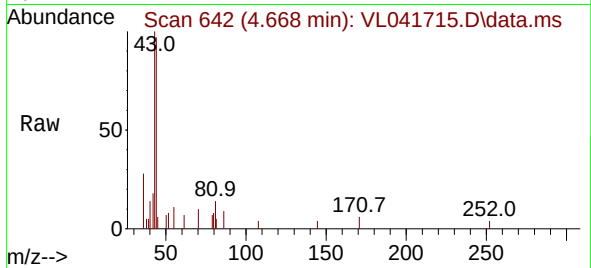




#23  
Vinyl Acetate  
Concen: 0.077 ppbv  
RT: 4.668 min Scan# 642  
Delta R.T. 0.013 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

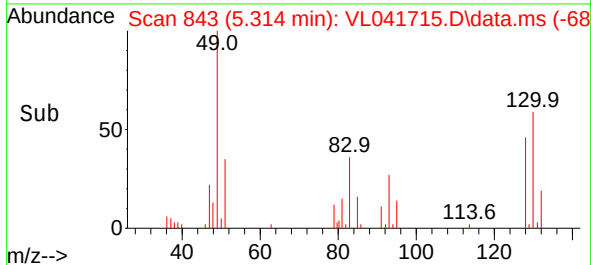
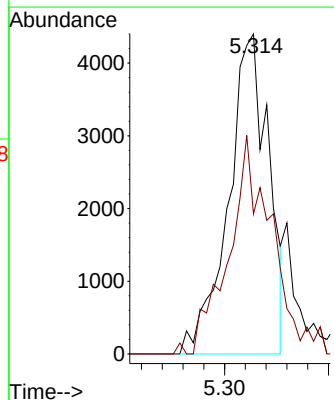
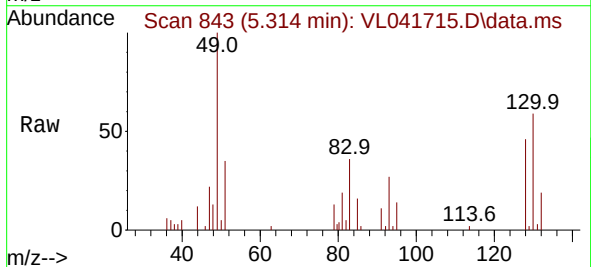
Instrument :  
MSVOA\_1  
ClientSampleId :  
E070-1100DL2

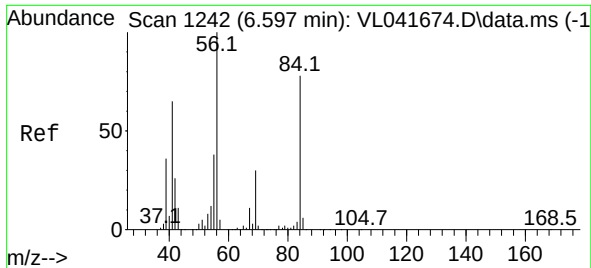
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4465  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 10.0  | 5.3   | 7.9#  |
| 42       | 19.7  | 8.5   | 12.7# |
| 44       | 14.0  | 6.7   | 10.1# |



#29  
Chloroform  
Concen: 0.034 ppbv  
RT: 5.314 min Scan# 843  
Delta R.T. 0.006 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 5891  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 40.4  | 51.1  | 76.7# |





#30

Cyclohexane

Concen: 0.079 ppbv

RT: 6.677 min Scan# 11

Delta R.T. 0.045 min

Lab File: VL041715.D

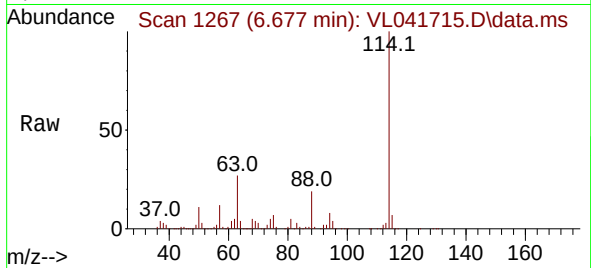
Acq: 21 Nov 2024 15:06

Instrument :

MSVOA\_1

ClientSampleId :

E070-1100DL2



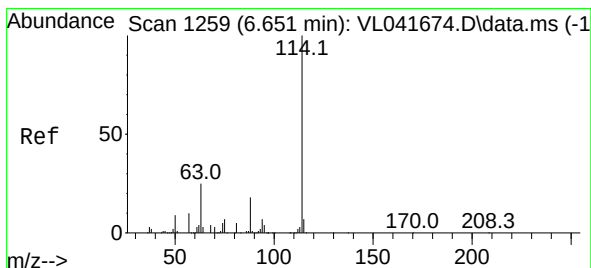
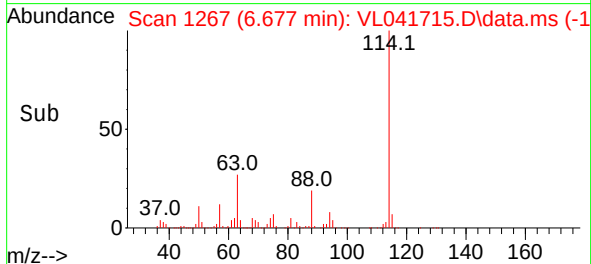
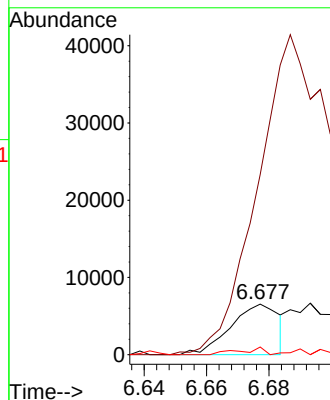
Tgt Ion: 84 Resp: 7038

Ion Ratio Lower Upper

84 100

56 1112.2 110.8 166.2#

41 13.0 70.0 105.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.687 min Scan# 1270

Delta R.T. 0.003 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

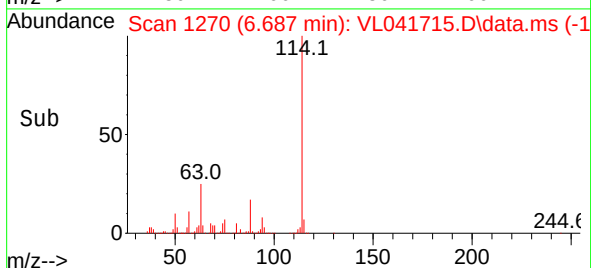
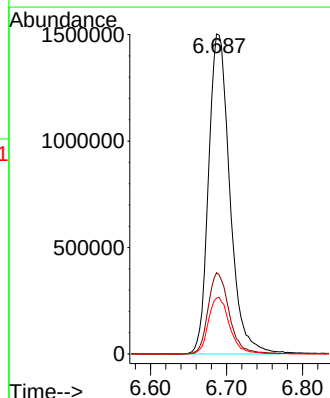
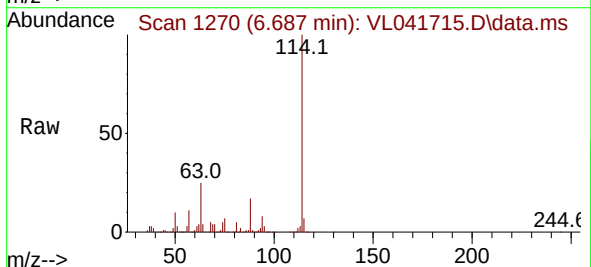
Tgt Ion: 114 Resp: 2922287

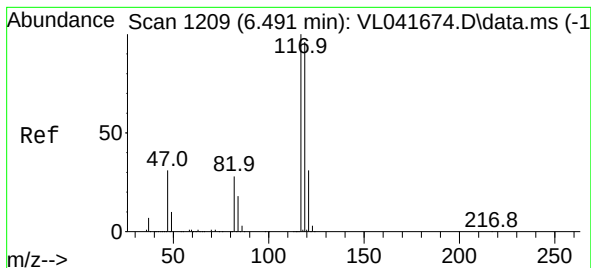
Ion Ratio Lower Upper

114 100

63 25.3 20.3 30.5

88 17.6 14.2 21.4





#35

Carbon Tetrachloride

Concen: 6.653 ppbv

RT: 6.532 min Scan# 117

Delta R.T. 0.006 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA\_L

ClientSampleId :

E070-1100DL2

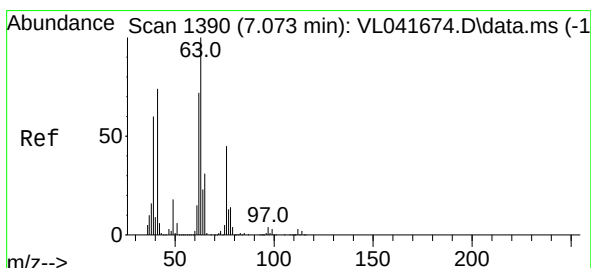
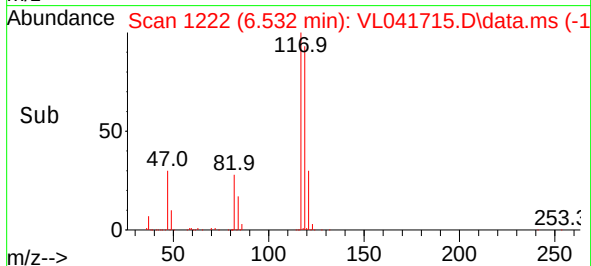
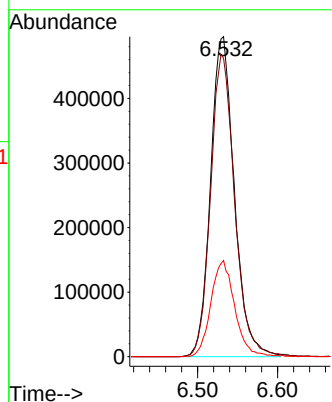
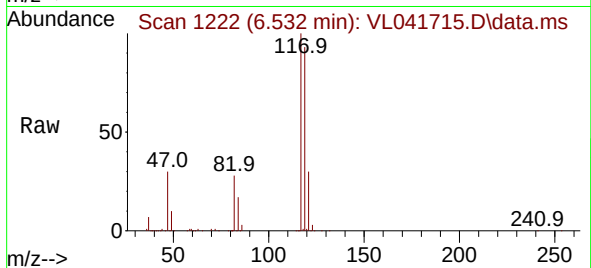
Tgt Ion:117 Resp: 1025832

Ion Ratio Lower Upper

117 100

119 93.2 77.2 115.8

121 30.1 25.0 37.4



#39

1,2-Dichloropropane

Concen: 8.539 ppbv

RT: 6.687 min Scan# 1270

Delta R.T. -0.421 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

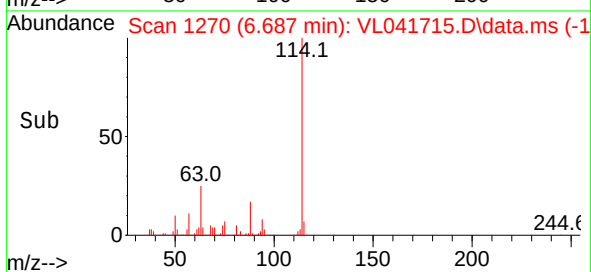
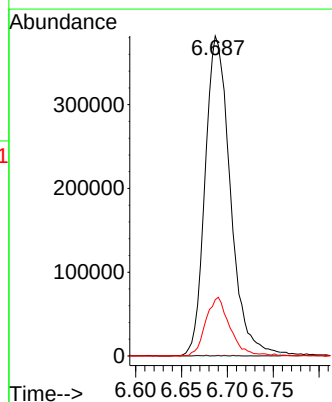
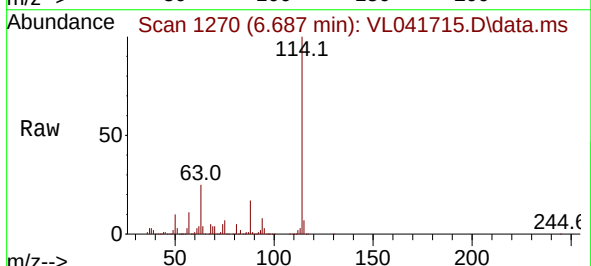
Tgt Ion: 63 Resp: 730607

Ion Ratio Lower Upper

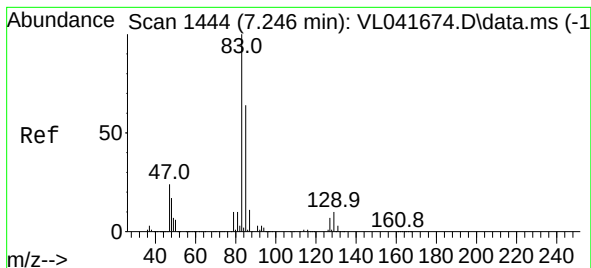
63 100

41 0.1 59.1 88.7#

62 17.6 57.7 86.5#







#42

Bromodichloromethane

Concen: 4.328 ppbv

RT: 7.285 min Scan# 1444

Delta R.T. 0.003 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA\_L

ClientSampleId :

E070-1100DL2

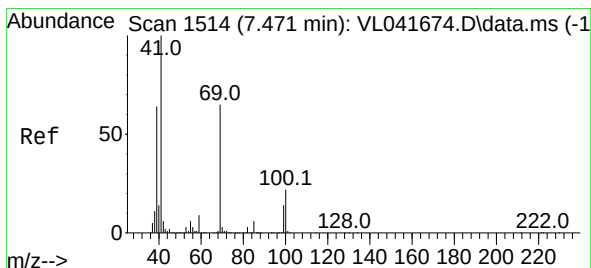
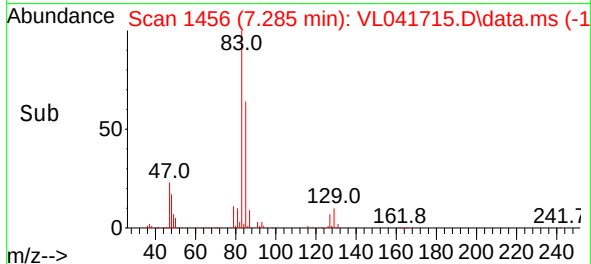
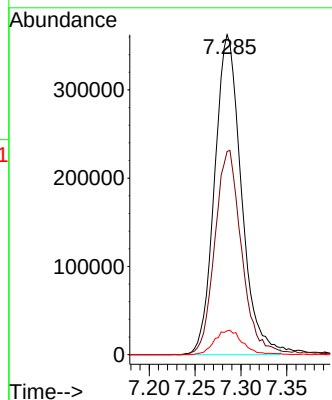
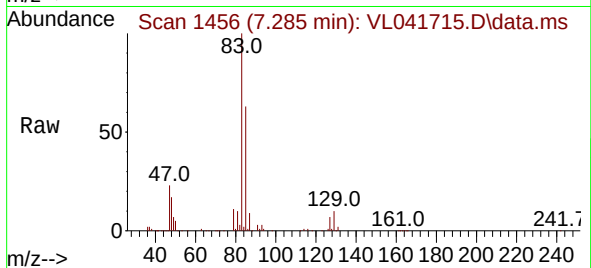
Tgt Ion: 83 Resp: 734738

Ion Ratio Lower Upper

83 100

85 63.5 51.2 76.8

127 7.5 6.0 9.0



#43

Methyl Methacrylate

Concen: 0.142 ppbv

RT: 7.600 min Scan# 1554

Delta R.T. 0.093 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

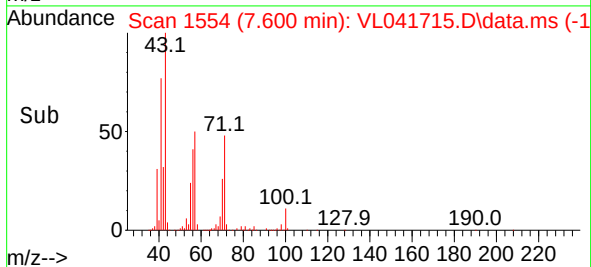
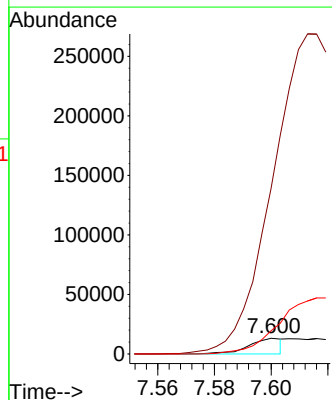
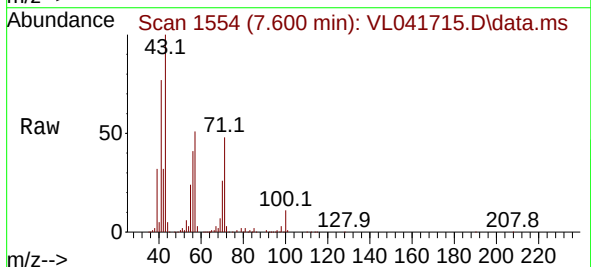
Tgt Ion: 69 Resp: 10811

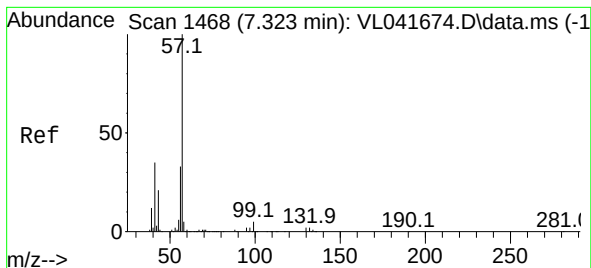
Ion Ratio Lower Upper

69 100

41 0.0 119.8 179.6#

100 0.0 27.3 40.9#

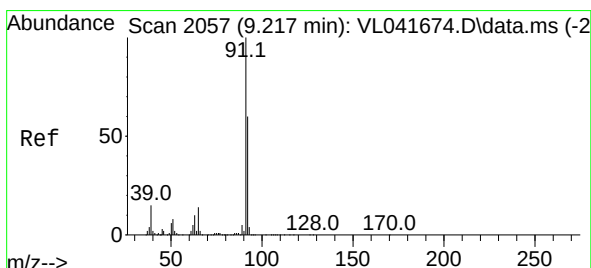
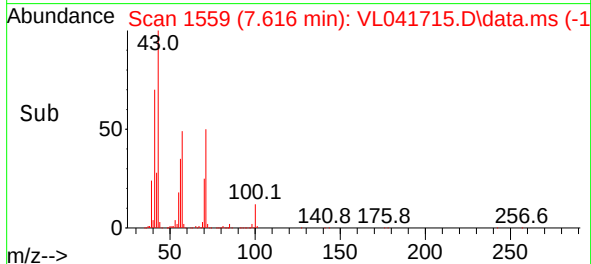
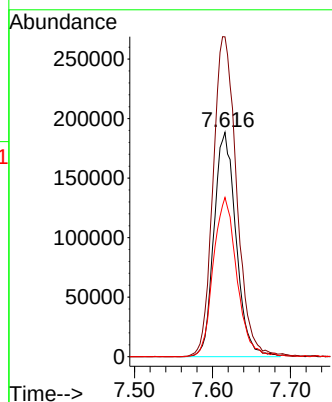
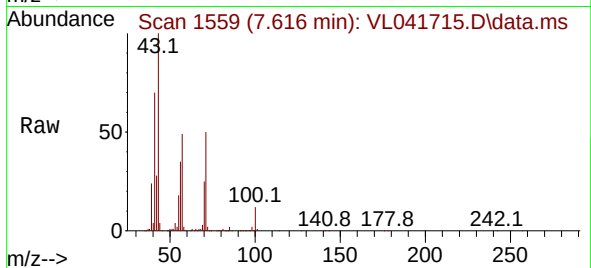




#44  
2,2,4-Trimethylpentane  
Concen: 1.010 ppbv  
RT: 7.616 min Scan# 1559  
Delta R.T. 0.260 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

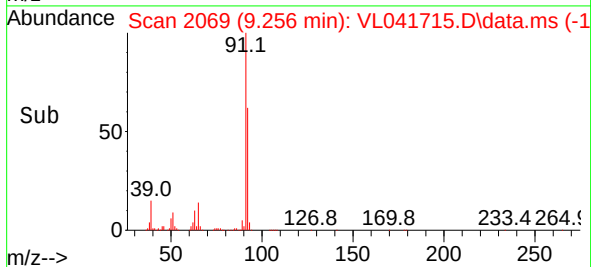
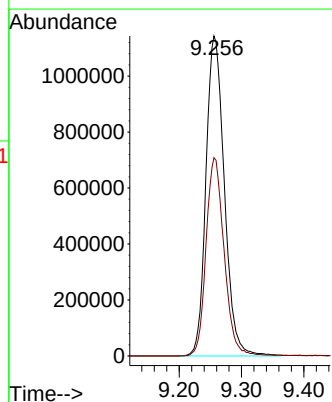
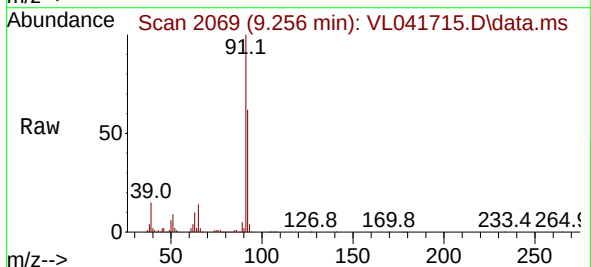
Instrument :  
MSVOA\_L  
ClientSampleId :  
E070-1100DL2

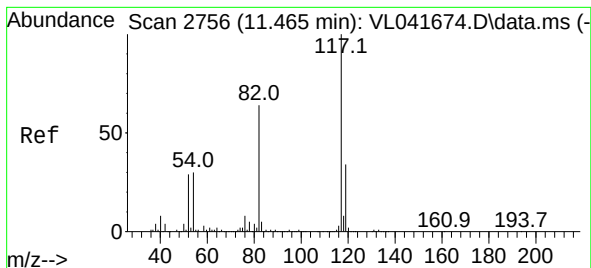
Tgt Ion: 57 Resp: 370349  
Ion Ratio Lower Upper  
57 100  
41 153.3 27.0 40.6#  
56 75.9 25.8 38.6#



#53  
Toluene  
Concen: 10.310 ppbv  
RT: 9.256 min Scan# 2069  
Delta R.T. 0.003 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

Tgt Ion: 91 Resp: 2347642  
Ion Ratio Lower Upper  
91 100  
92 60.8 49.0 73.4

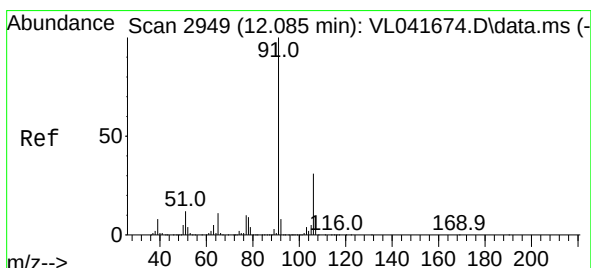
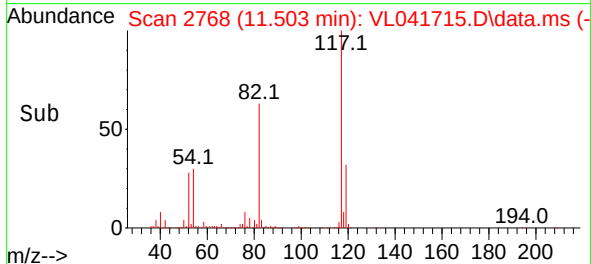
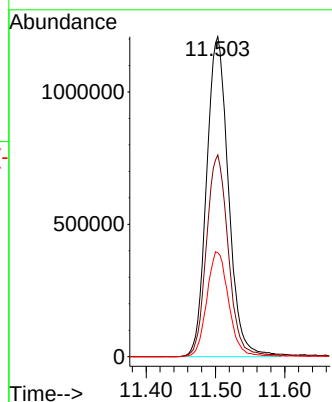
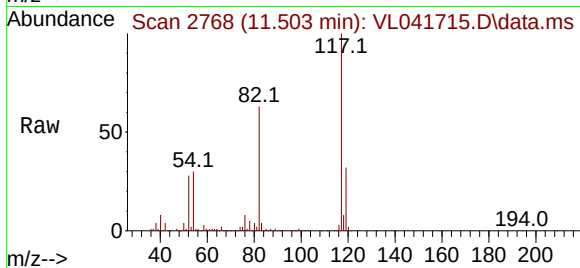




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.503 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

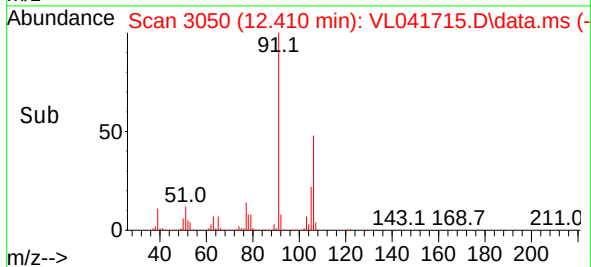
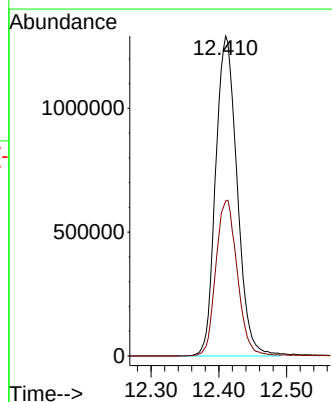
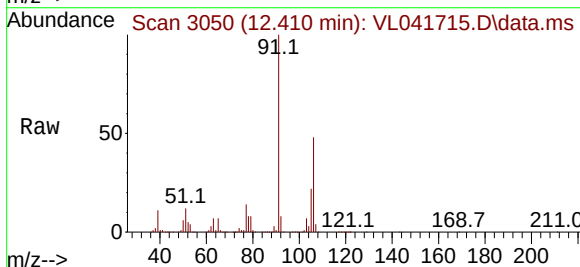
Instrument :  
MSVOA\_1  
ClientSampleId :  
E070-1100DL2

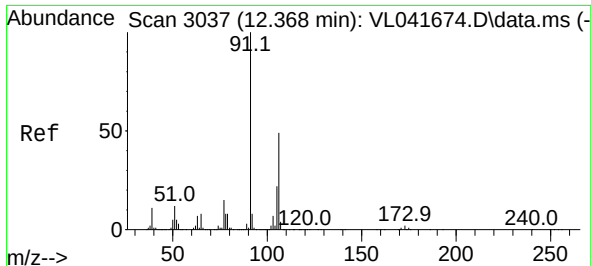
Tgt Ion:117 Resp: 2654968  
Ion Ratio Lower Upper  
117 100  
82 63.9 49.8 74.8  
119 33.0 24.2 36.4



#58  
Ethyl Benzene  
Concen: 9.774 ppbv  
RT: 12.410 min Scan# 3050  
Delta R.T. 0.289 min  
Lab File: VL041715.D  
Acq: 21 Nov 2024 15:06

Tgt Ion: 91 Resp: 2844916  
Ion Ratio Lower Upper  
91 100  
106 48.4 24.9 37.3#





#59

m/p-Xylene

Concen: 10.915 ppbv

RT: 12.410 min Scan# 3050

Delta R.T. 0.006 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA\_1

ClientSampleId :

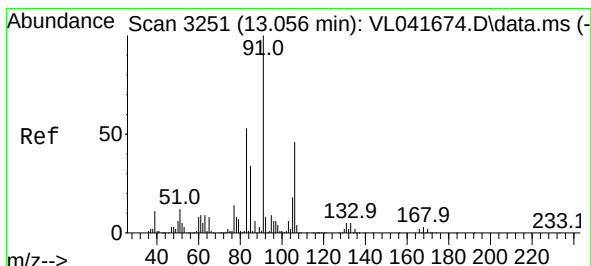
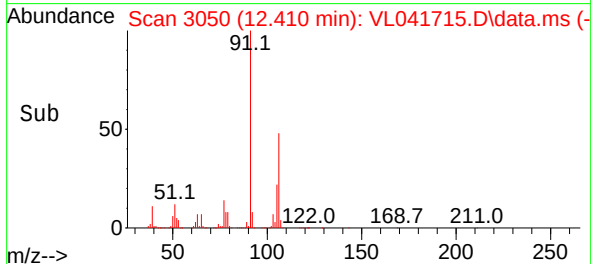
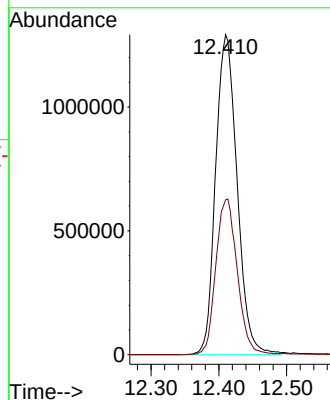
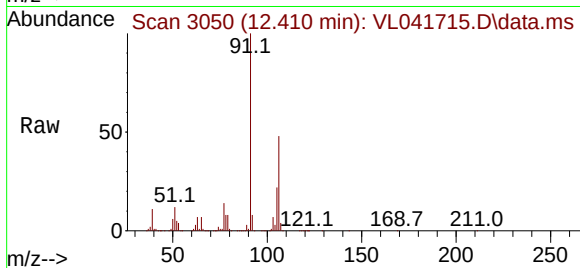
E070-1100DL2

Tgt Ion: 91 Resp: 2844916

Ion Ratio Lower Upper

91 100

106 48.9 36.9 55.3



#60

o-Xylene

Concen: 8.617 ppbv

RT: 13.092 min Scan# 3262

Delta R.T. 0.003 min

Lab File: VL041715.D

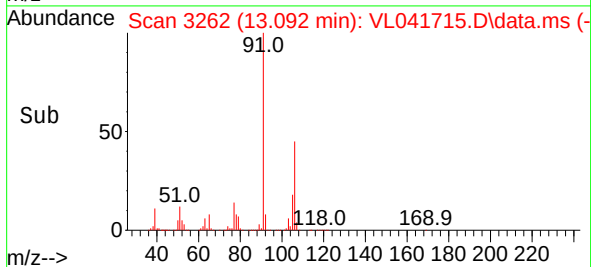
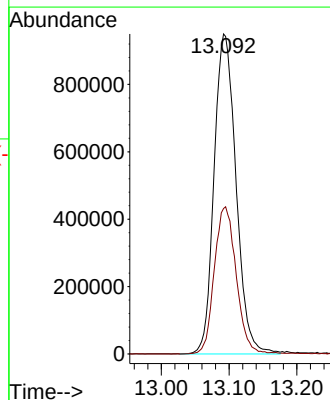
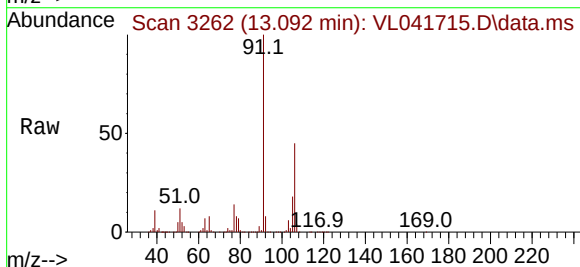
Acq: 21 Nov 2024 15:06

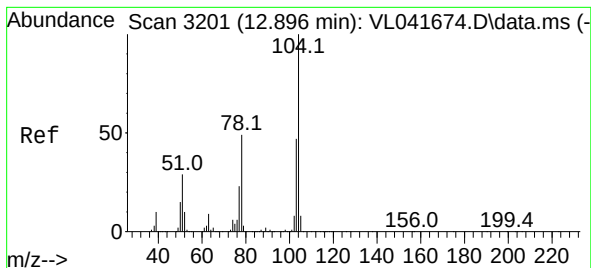
Tgt Ion: 91 Resp: 2141646

Ion Ratio Lower Upper

91 100

106 46.2 23.2 69.6





#61

Styrene

Concen: 0.282 ppbv

RT: 13.092 min Scan# 31

Delta R.T. 0.164 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA\_L

ClientSampleId :

E070-1100DL2

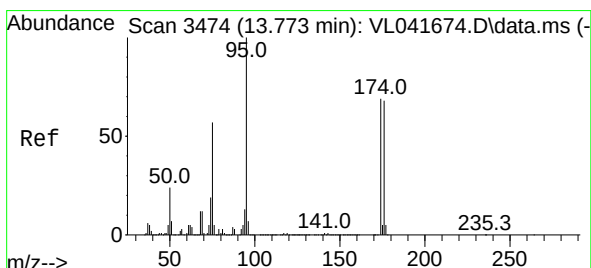
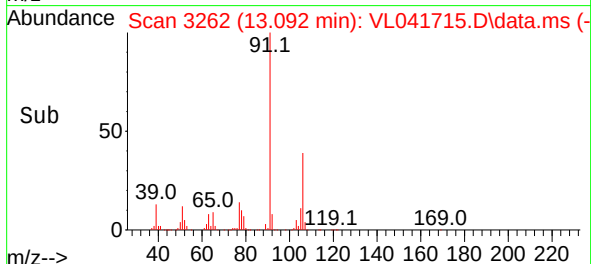
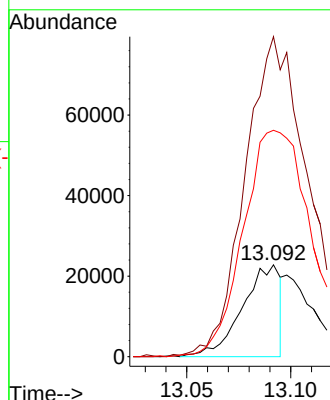
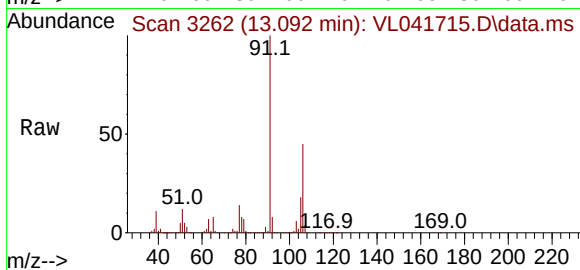
Tgt Ion:104 Resp: 28930

Ion Ratio Lower Upper

104 100

78 598.8 39.8 59.8#

103 456.8 37.4 56.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.590 ppbv

RT: 13.812 min Scan# 3486

Delta R.T. 0.006 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

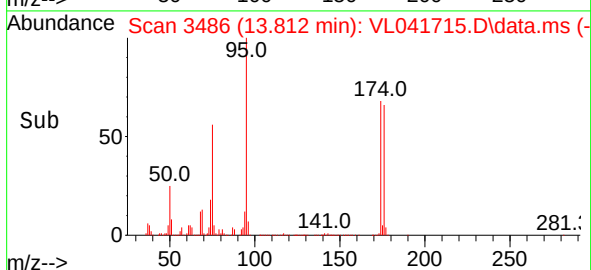
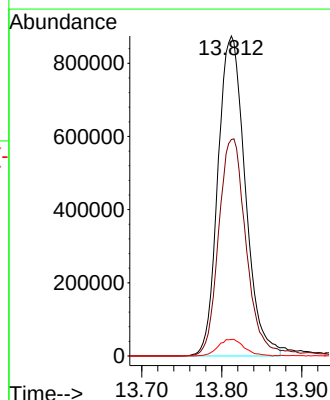
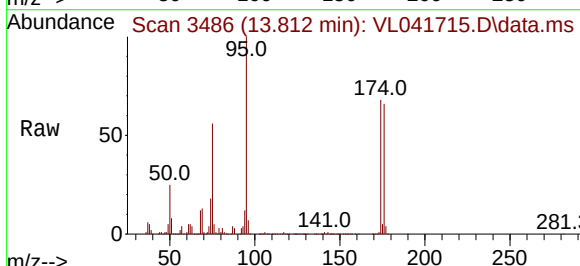
Tgt Ion: 95 Resp: 2071565

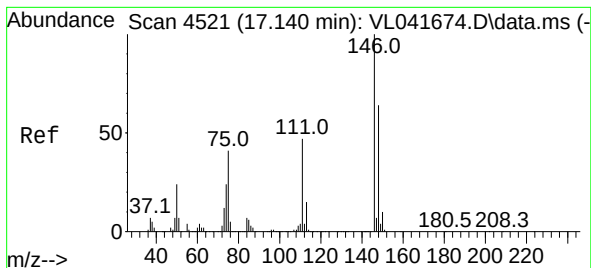
Ion Ratio Lower Upper

95 100

174 70.1 55.6 83.4

175 5.1 4.2 6.2





#77

1,2-Dichlorobenzene

Concen: 6.735 ppbv

RT: 17.182 min Scan# 4534

Delta R.T. 0.006 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA\_L

ClientSampleId :

E070-1100DL2

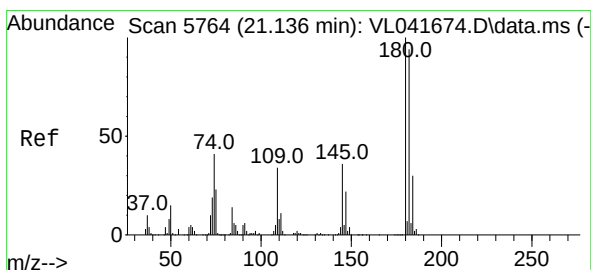
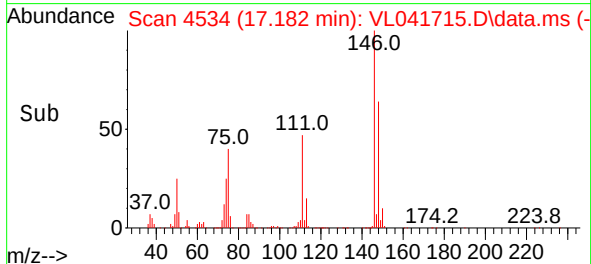
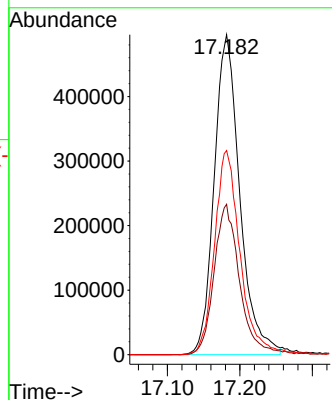
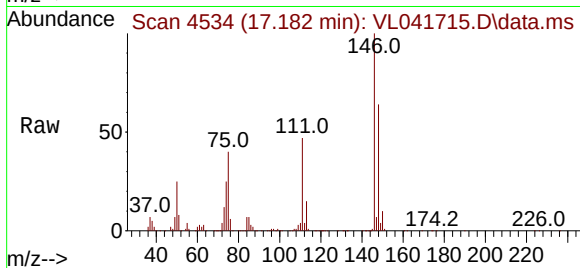
Tgt Ion:146 Resp: 1217081

Ion Ratio Lower Upper

146 100

111 47.3 23.4 70.3

148 64.3 32.1 96.5



#81

1,2,4-Trichlorobenzene

Concen: 4.475 ppbv

RT: 21.188 min Scan# 5780

Delta R.T. 0.013 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Tgt Ion:180 Resp: 511649

Ion Ratio Lower Upper

180 100

182 104.1 78.2 117.2

184 31.8 25.0 37.4

