

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111424\  
 Data File : VU061663.D  
 Acq On : 14 Nov 2024 11:34  
 Operator : MD/SY  
 Sample : P4803-07DL 2X  
 Misc : 25mL/MSVOA\_U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A0AQ2DL

Quant Time: Nov 15 00:43:39 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111324WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Nov 15 00:40:52 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) 1,4-Difluorobenzene        | 6.242  | 114   | 191748   | 5.000    | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 9.409  | 117   | 178993   | 5.000    | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.804 | 152   | 86475    | 5.000    | ug/L  | 0.00     |
|                               |        |       |          |          |       |          |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 4) Vinyl Chloride-d3          | 1.595  | 65    | 53936    | 4.354    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =     | 87.000%  |
| 7) Chloroethane-d5            | 1.911  | 69    | 45924    | 4.342    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =     | 86.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.560  | 65    | 23726    | 4.268    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =     | 85.400%  |
| 20) 2-Butanone-d5             | 4.634  | 46    | 121610   | 46.246   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =     | 92.500%  |
| 24) Chloroform-d              | 5.052  | 84    | 110061   | 4.469    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =     | 89.400%  |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65    | 55768    | 4.719    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =     | 94.400%  |
| 32) Benzene-d6                | 5.717  | 84    | 230424   | 4.653    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =     | 93.000%  |
| 36) 1,2-Dichloropropane-d6    | 6.682  | 67    | 69538    | 4.761    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =     | 95.200%  |
| 41) Toluene-d8                | 7.891  | 98    | 206725   | 4.479    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =     | 89.600%  |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79    | 23321    | 4.335    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =     | 86.800%  |
| 46) 2-Hexanone-d5             | 8.630  | 63    | 102010   | 47.987   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =     | 95.980%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.746 | 84    | 53037    | 4.607    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =     | 92.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.183 | 152   | 74072    | 4.809    | ug/L  | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =     | 96.200%  |
|                               |        |       |          |          |       |          |
| Target Compounds              | Qvalue |       |          |          |       |          |
| 5) Vinyl chloride             | 1.602  | 62    | 59448    | 4.167    | ug/L  | 100      |
| 12) 1,1-Dichloroethene        | 2.573  | 96    | 72685    | 6.279    | ug/L  | 91       |
| 16) Methylene chloride        | 3.039  | 84    | 137861   | 10.335   | ug/L  | 98       |
| 18) trans-1,2-Dichloroethene  | 3.348  | 96    | 89363    | 7.038    | ug/L  | 99       |
| 22) cis-1,2-Dichloroethene    | 4.656  | 96    | 38151    | 2.664    | ug/L  | 98       |
| 27) 1,2-Dichloroethane        | 5.785  | 62    | 20600    | 1.346    | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane     | 5.306  | 97    | 119036   | 5.844    | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.515  | 117   | 85455    | 4.926    | ug/L  | 99       |
| 33) Benzene                   | 5.766  | 78    | 461449   | 8.518    | ug/L  | 100      |
| 34) Trichloroethene           | 6.534  | 95    | 32263    | 2.206    | ug/L  | 97       |
| 37) 1,2-Dichloropropane       | 6.782  | 63    | 92660    | 6.742    | ug/L  | 99       |
| 42) Toluene                   | 7.962  | 91    | 532840   | 9.135    | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97    | 18408    | 1.837    | ug/L  | 95       |
| 47) Tetrachloroethene         | 8.544  | 164   | 70614    | 6.424    | ug/L  | 98       |
| 51) Chlorobenzene             | 9.438  | 112   | 214392   | 5.710    | ug/L  | 99       |
| 52) Ethylbenzene              | 9.563  | 91    | 508215   | 8.180    | ug/L  | 99       |
| 53) m,p-Xylene                | 9.682  | 106   | 171892   | 7.231    | ug/L  | 98       |
| 54) o-Xylene                  | 10.090 | 106   | 67423    | 2.918    | ug/L  | 98       |
| 55) Styrene                   | 10.106 | 104   | 336039   | 9.134    | ug/L  | 96       |

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Sample : P4803-07DL 2X  
Misc : 25mL/MSVOA\_U/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
A0AQ2DL

Quant Time: Nov 15 00:43:39 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111324WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Nov 15 00:40:52 2024  
Response via : Initial Calibration

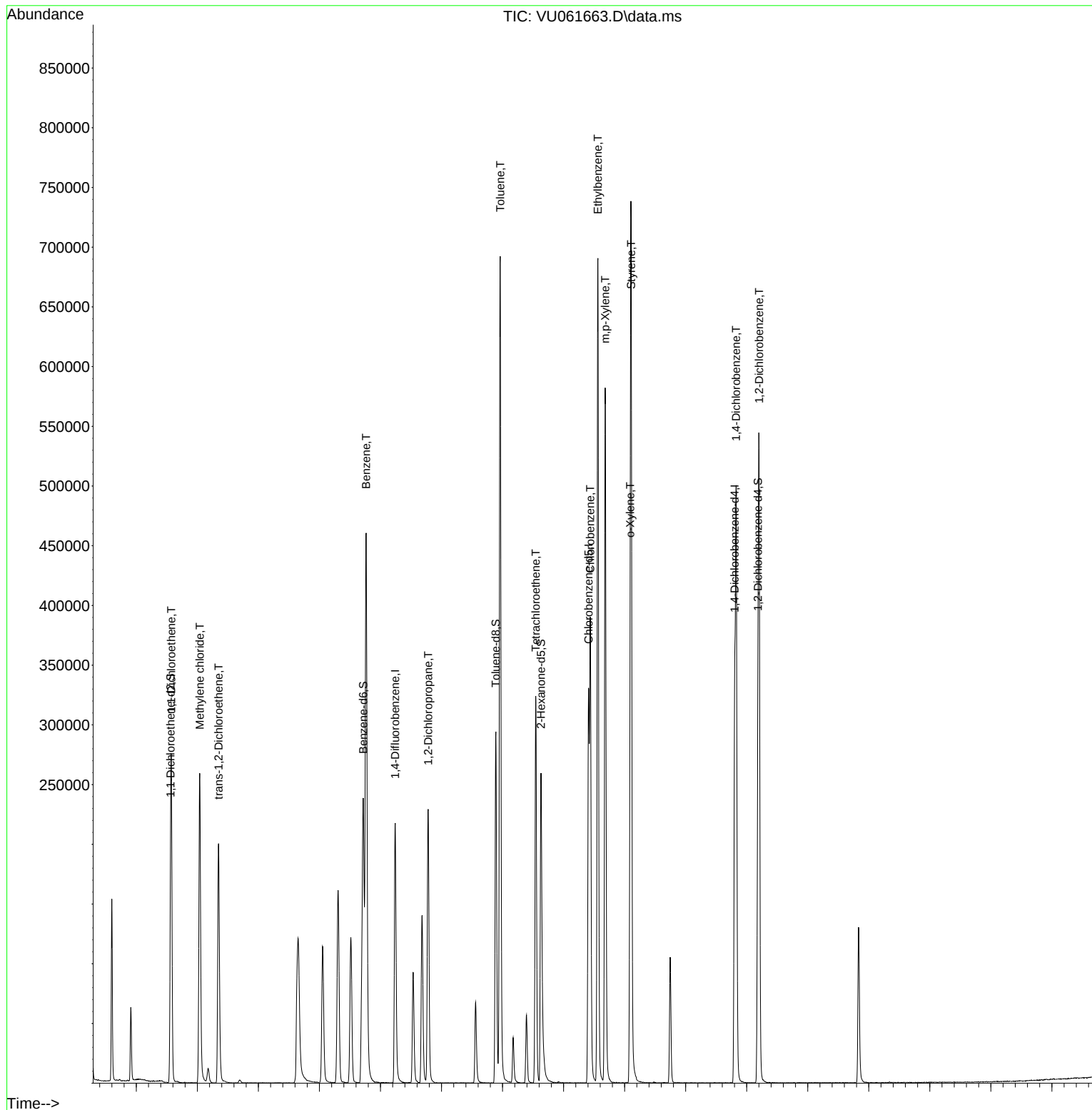
| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| 65) 1,4-Dichlorobenzene    | 11.826 | 146  | 199730   | 7.152 | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene    | 12.203 | 146  | 201008   | 7.859 | ug/L  | 96       |
| 70) 1,2,4-trichlorobenzene | 13.836 | 180  | 46295    | 3.111 | ug/L  | 98       |

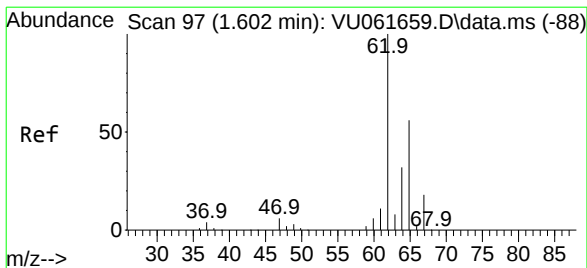
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Vinyl chloride

Concen: 4.167 ug/L

RT: 1.602 min Scan# 97

Delta R.T. -0.000 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

Instrument :

MSVOA\_U

ClientSampleId :

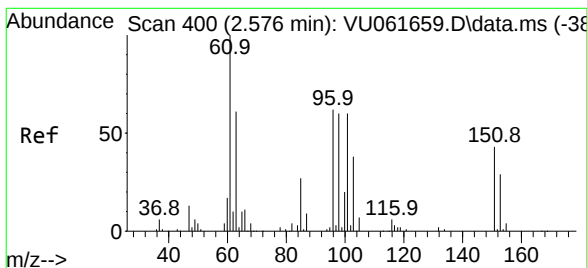
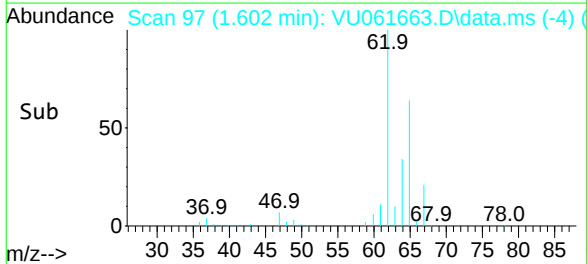
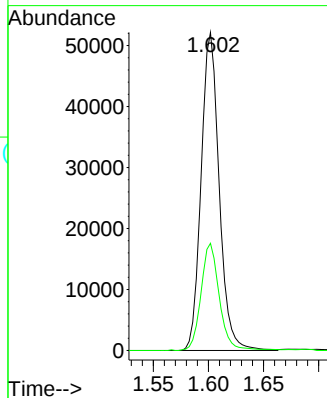
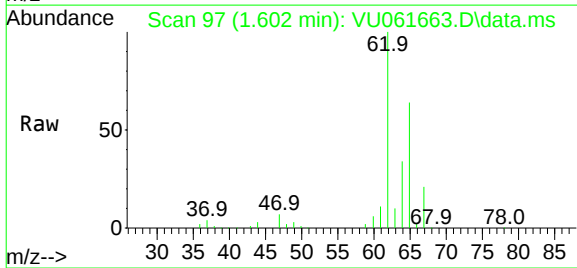
A0AQ2DL

Tgt Ion: 62 Resp: 59448

Ion Ratio Lower Upper

62 100

64 33.7 23.7 44.1



1,1-Dichloroethene

Concen: 6.279 ug/L

RT: 2.573 min Scan# 399

Delta R.T. -0.003 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

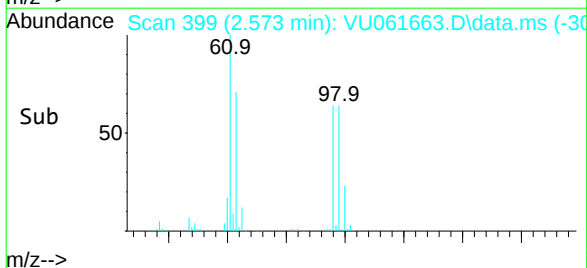
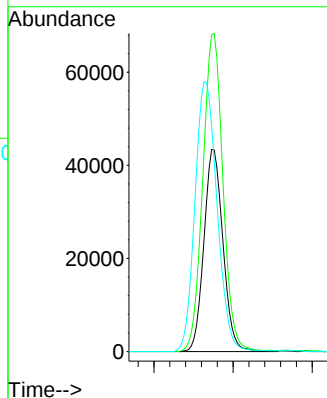
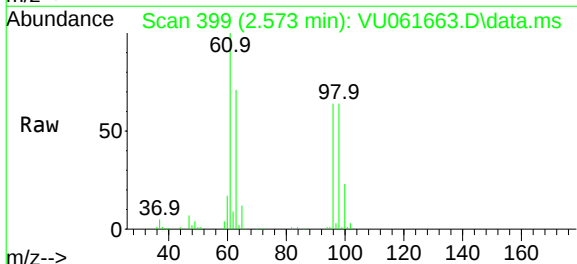
Tgt Ion: 96 Resp: 72685

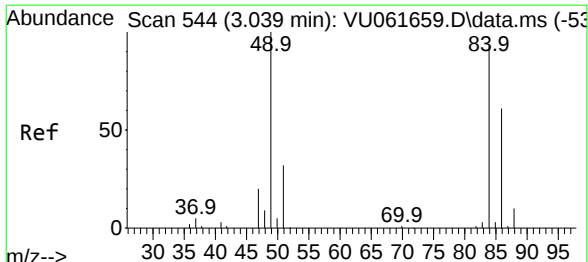
Ion Ratio Lower Upper

96 100

61 156.8 116.8 217.0

63 111.6 86.1 159.9

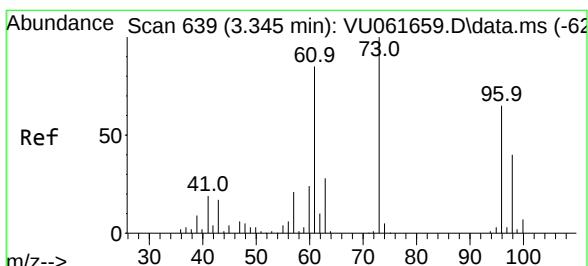
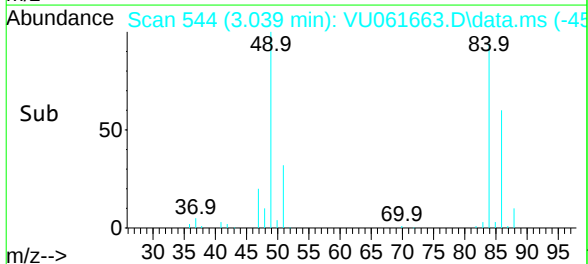
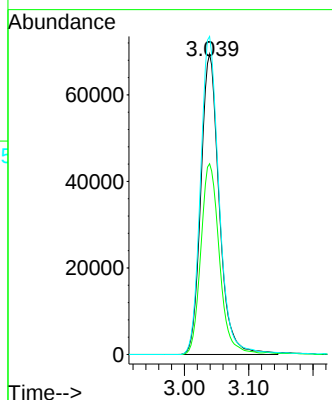
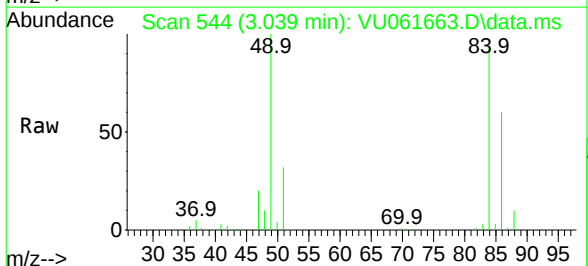




#16  
Methylene chloride  
Concen: 10.335 ug/L  
RT: 3.039 min Scan# 54  
Delta R.T. -0.000 min  
Lab File: VU061663.D  
Acq: 14 Nov 2024 11:34

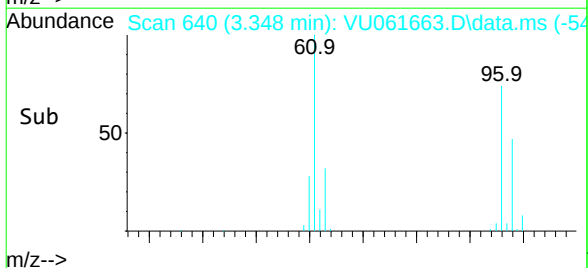
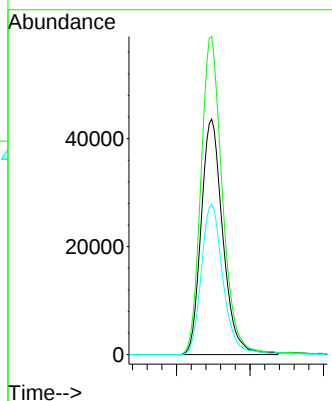
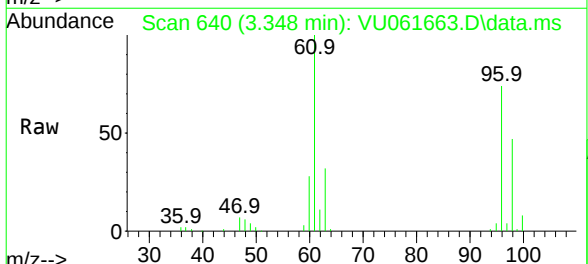
Instrument :  
MSVOA\_U  
ClientSampleId :  
A0AQ2DL

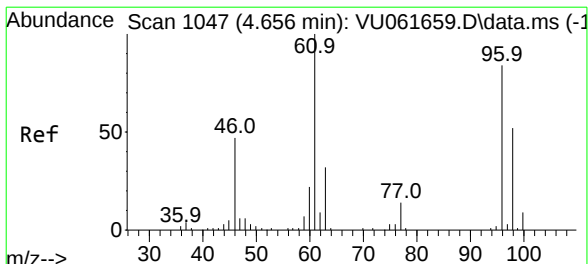
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 137861 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 86       | 63.5  | 45.1  | 83.7   |
| 49       | 105.9 | 76.3  | 141.7  |



#18  
trans-1,2-Dichloroethene  
Concen: 7.038 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. 0.003 min  
Lab File: VU061663.D  
Acq: 14 Nov 2024 11:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 89363 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 135.1 | 94.1  | 174.8 |
| 98       | 63.8  | 43.2  | 80.2  |

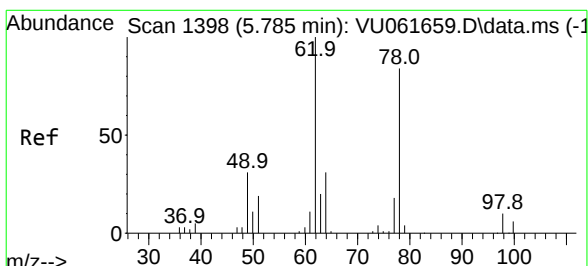
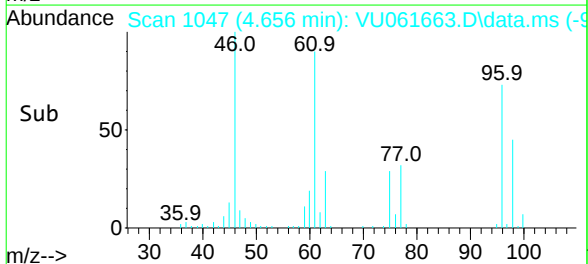
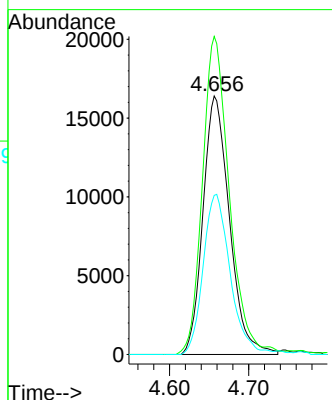
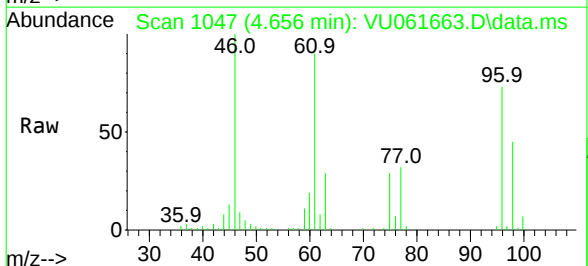




#22  
 cis-1,2-Dichloroethene  
 Concen: 2.664 ug/L  
 RT: 4.656 min Scan# 1047  
 Delta R.T. -0.000 min  
 Lab File: VU061663.D  
 Acq: 14 Nov 2024 11:34

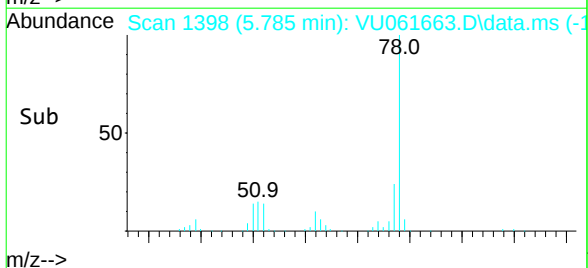
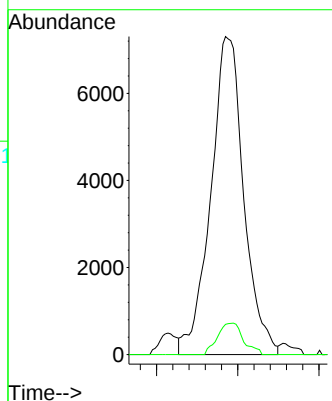
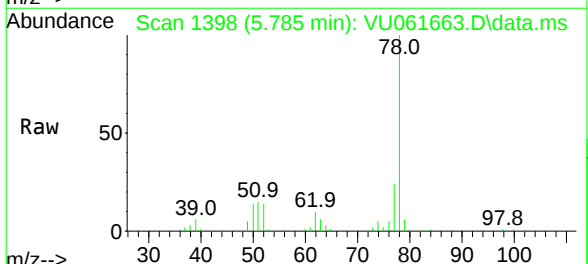
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A0AQ2DL

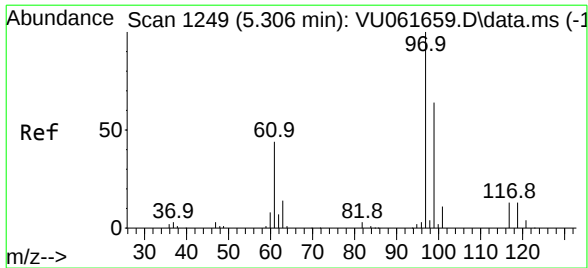
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 38151 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 123.0 | 85.6  | 159.0 |
| 98       | 61.5  | 45.6  | 84.8  |



#27  
 1,2-Dichloroethane  
 Concen: 1.346 ug/L  
 RT: 5.785 min Scan# 1398  
 Delta R.T. -0.000 min  
 Lab File: VU061663.D  
 Acq: 14 Nov 2024 11:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 20600 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 9.5   | 7.7   | 11.5  |

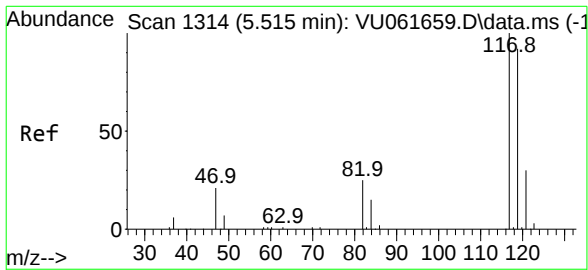
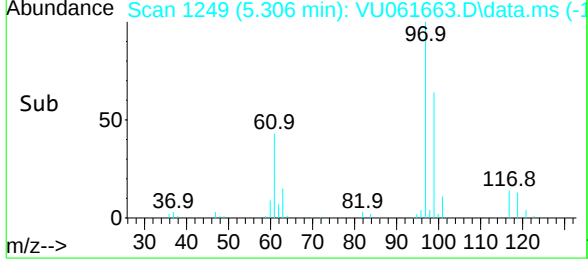
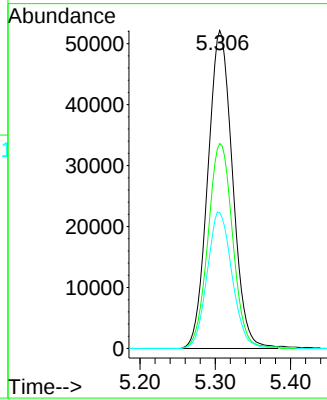
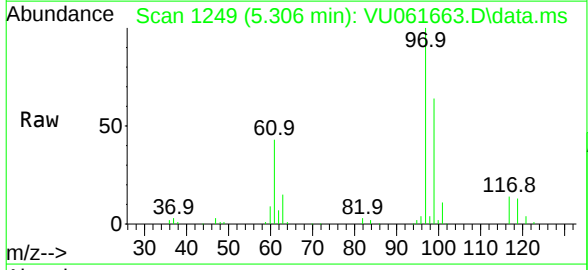




#29  
 1,1,1-Trichloroethane  
 Concen: 5.844 ug/L  
 RT: 5.306 min Scan# 1249  
 Delta R.T. -0.000 min  
 Lab File: VU061663.D  
 Acq: 14 Nov 2024 11:34

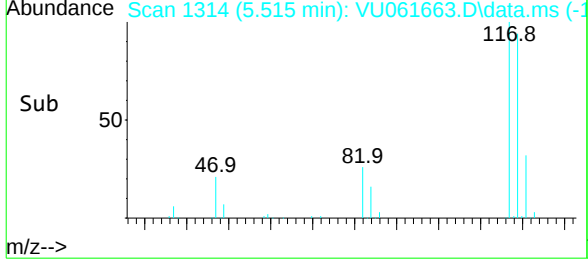
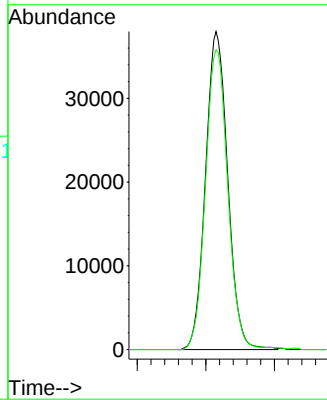
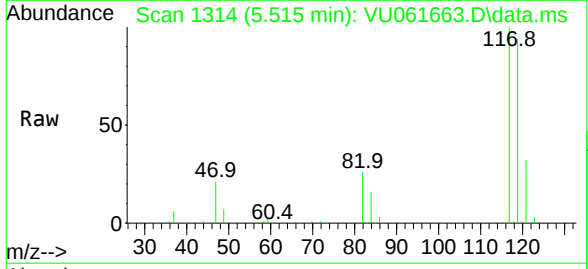
Instrument : MSVOA\_U  
 ClientSampleId : A0AQ2DL

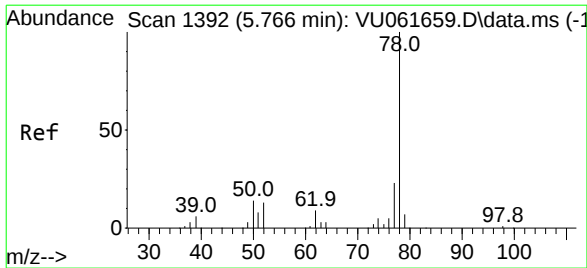
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|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 119036 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 64.3  | 51.7  | 77.5   |
| 61       | 43.3  | 35.4  | 53.0   |



#31  
 Carbon tetrachloride  
 Concen: 4.926 ug/L  
 RT: 5.515 min Scan# 1314  
 Delta R.T. -0.000 min  
 Lab File: VU061663.D  
 Acq: 14 Nov 2024 11:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 85455 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 95.0  | 76.6  | 114.8 |





#33

Benzene

Concen: 8.518 ug/L

RT: 5.766 min Scan# 1392

Delta R.T. -0.000 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

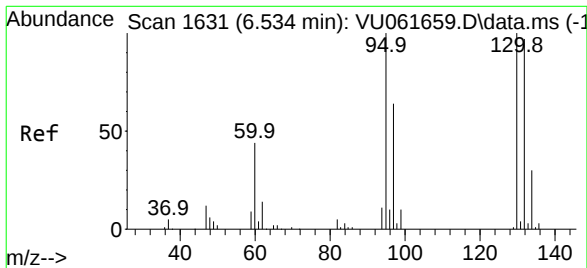
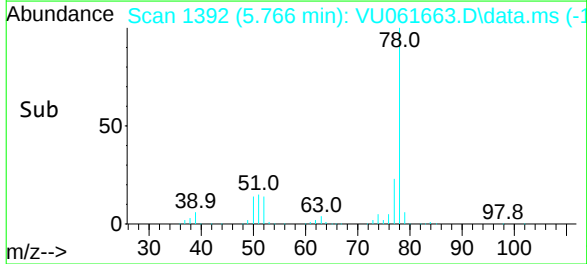
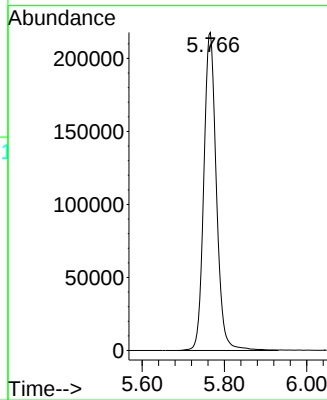
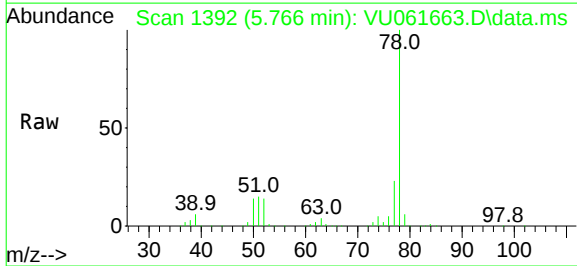
Instrument :

MSVOA\_U

ClientSampleId :

A0AQ2DL

Tgt Ion: 78 Resp: 461449



#34

Trichloroethene

Concen: 2.206 ug/L

RT: 6.534 min Scan# 1631

Delta R.T. -0.000 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

Tgt Ion: 95 Resp: 32263

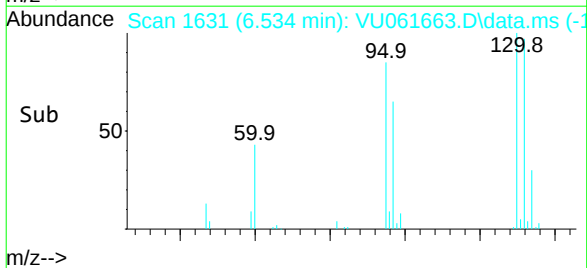
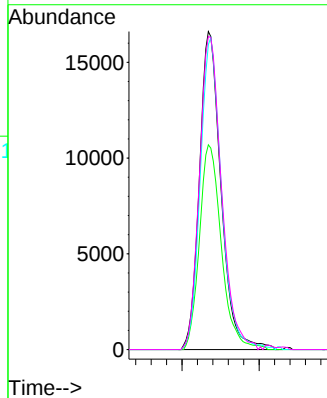
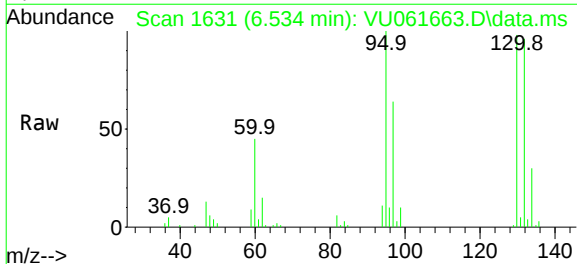
Ion Ratio Lower Upper

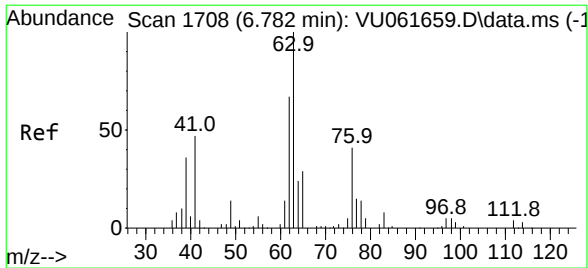
95 100

97 64.4 43.5 80.9

132 95.9 65.2 121.0

130 98.4 67.5 125.3

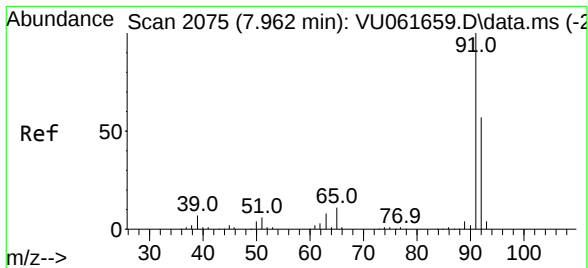
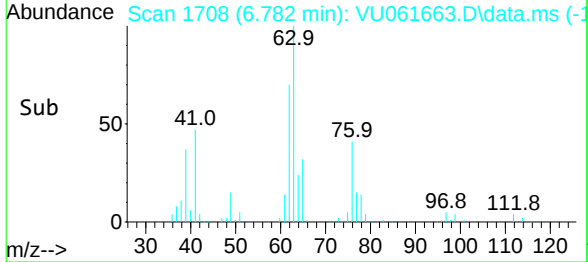
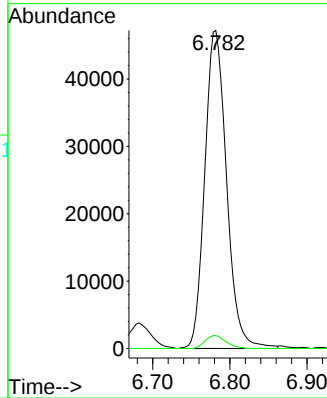
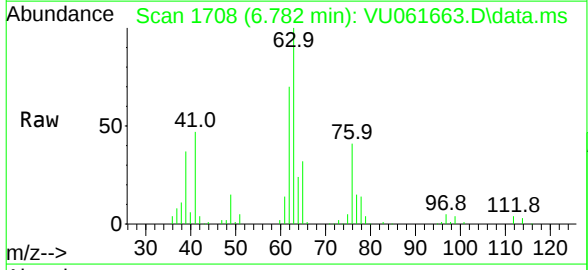




#37  
1,2-Dichloropropane  
Concen: 6.742 ug/L  
RT: 6.782 min Scan# 1708  
Delta R.T. -0.000 min  
Lab File: VU061663.D  
Acq: 14 Nov 2024 11:34

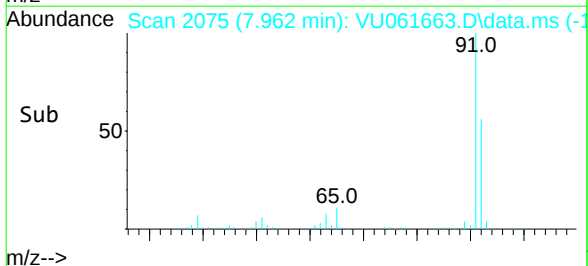
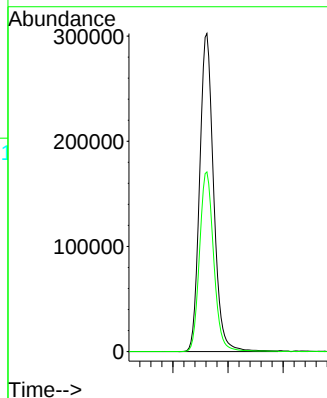
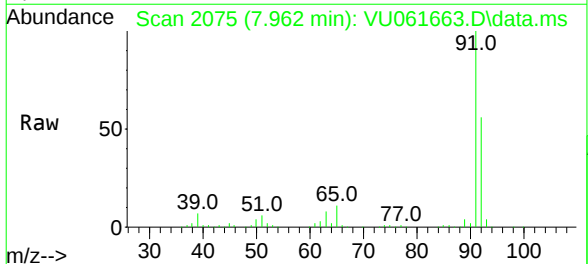
Instrument :  
MSVOA\_U  
ClientSampleId :  
A0AQ2DL

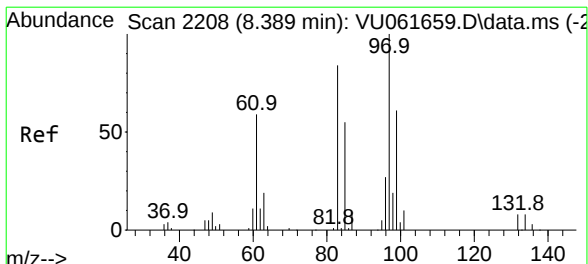
Tgt Ion: 63 Resp: 92660  
Ion Ratio Lower Upper  
63 100  
112 3.9 3.0 4.4



#42  
Toluene  
Concen: 9.135 ug/L  
RT: 7.962 min Scan# 2075  
Delta R.T. -0.000 min  
Lab File: VU061663.D  
Acq: 14 Nov 2024 11:34

Tgt Ion: 91 Resp: 532840  
Ion Ratio Lower Upper  
91 100  
92 56.5 39.7 73.7

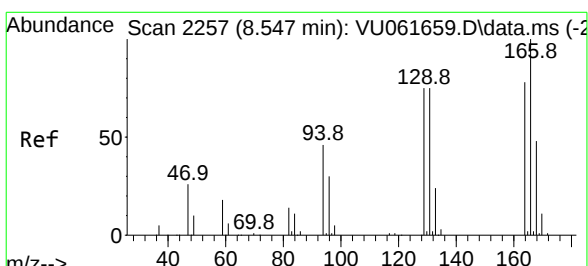
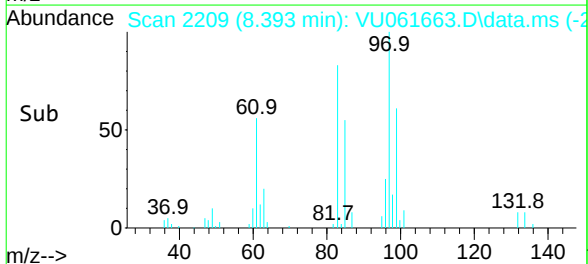
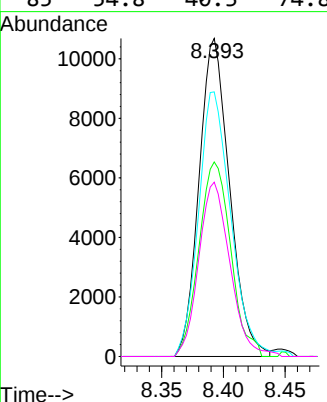
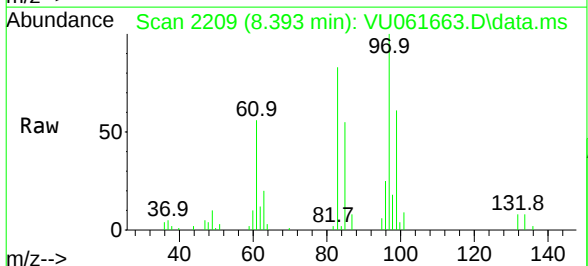




#45  
1,1,2-Trichloroethane  
Concen: 1.837 ug/L  
RT: 8.393 min Scan# 2209  
Delta R.T. 0.003 min  
Lab File: VU061663.D  
Acq: 14 Nov 2024 11:34

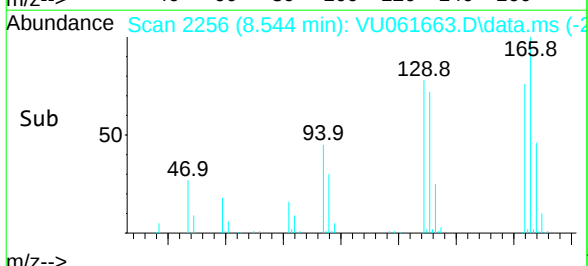
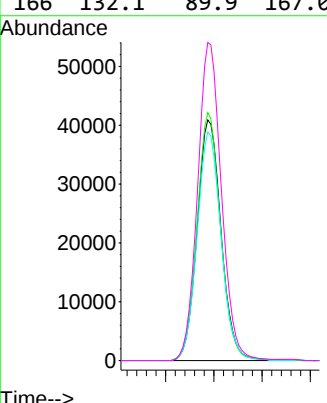
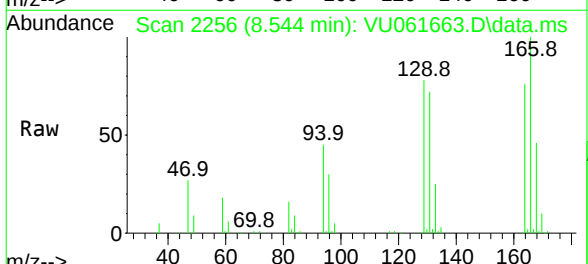
Instrument :  
MSVOA\_U  
ClientSampleId :  
A0AQ2DL

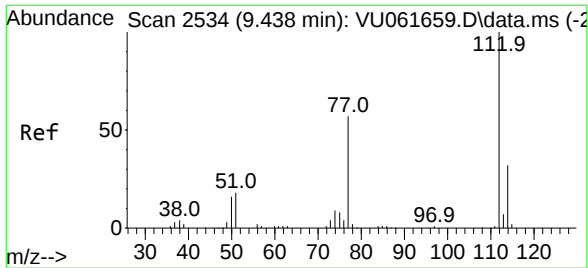
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 18408 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 61.2  | 43.8  | 81.3  |
| 83       | 83.2  | 63.2  | 117.4 |
| 85       | 54.8  | 40.3  | 74.8  |



#47  
Tetrachloroethene  
Concen: 6.424 ug/L  
RT: 8.544 min Scan# 2256  
Delta R.T. -0.003 min  
Lab File: VU061663.D  
Acq: 14 Nov 2024 11:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 70614 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 103.0 | 71.7  | 133.3 |
| 131      | 95.0  | 68.2  | 126.6 |
| 166      | 132.1 | 89.9  | 167.0 |

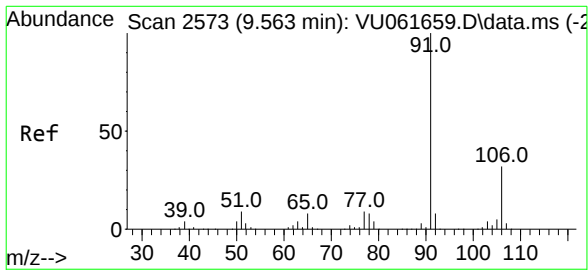
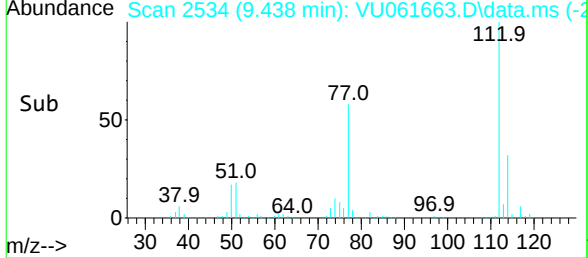
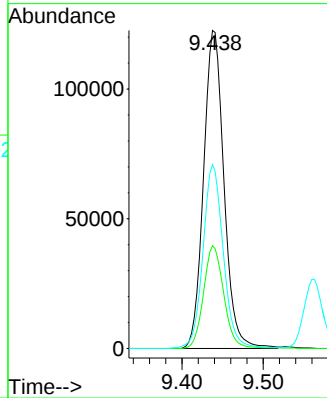
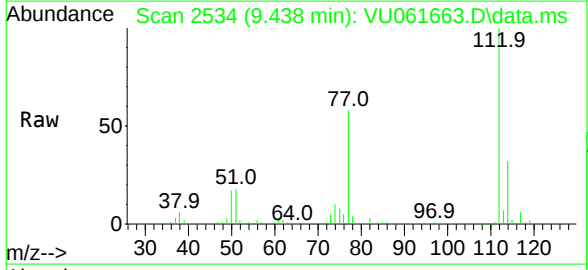




#51  
Chlorobenzene  
Concen: 5.710 ug/L  
RT: 9.438 min Scan# 2534  
Delta R.T. -0.000 min  
Lab File: VU061663.D  
Acq: 14 Nov 2024 11:34

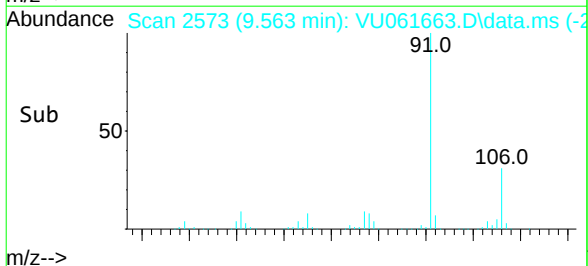
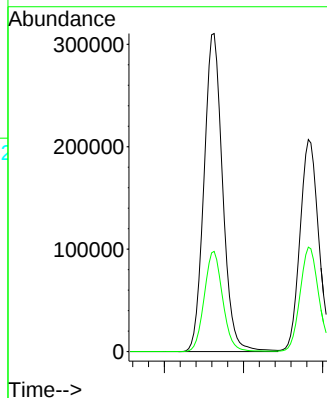
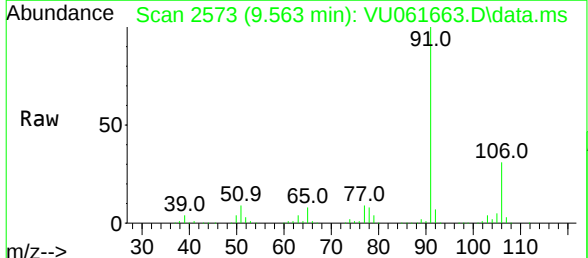
Instrument :  
MSVOA\_U  
ClientSampleId :  
A0AQ2DL

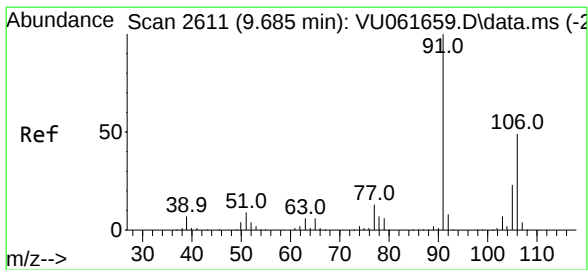
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 214392 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 32.3  | 22.5  | 41.9   |
| 77       | 57.8  | 45.3  | 67.9   |



#52  
Ethylbenzene  
Concen: 8.180 ug/L  
RT: 9.563 min Scan# 2573  
Delta R.T. -0.000 min  
Lab File: VU061663.D  
Acq: 14 Nov 2024 11:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 508215 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 106      | 31.5  | 21.7  | 40.3   |





#53

m,p-Xylene

Concen: 7.231 ug/L

RT: 9.682 min Scan# 2611

Delta R.T. -0.003 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

Instrument :

MSVOA\_U

ClientSampleId :

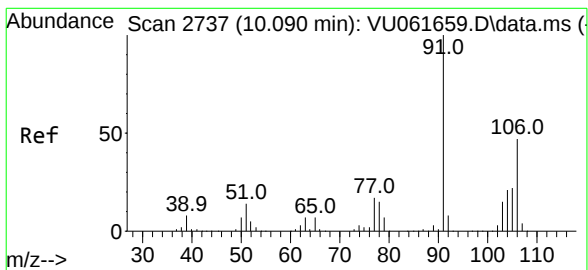
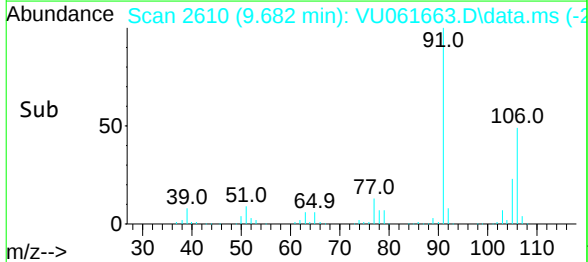
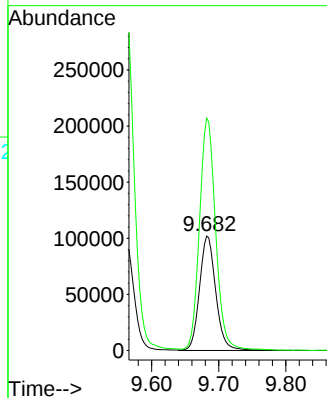
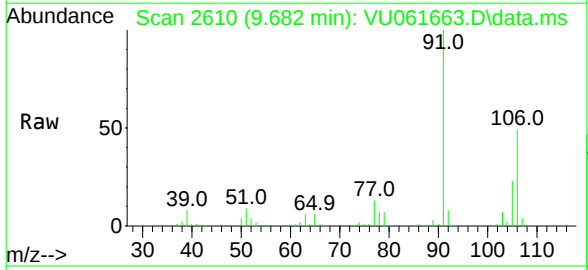
A0AQ2DL

Tgt Ion:106 Resp: 171892

Ion Ratio Lower Upper

106 100

91 203.0 140.4 260.8



#54

o-Xylene

Concen: 2.918 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. -0.000 min

Lab File: VU061663.D

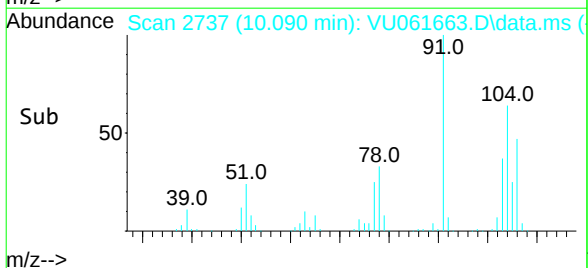
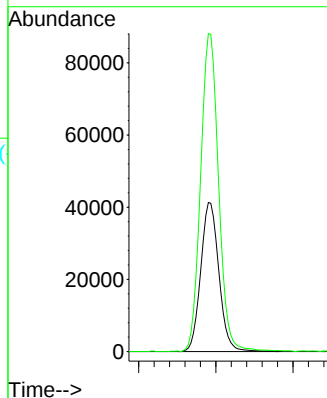
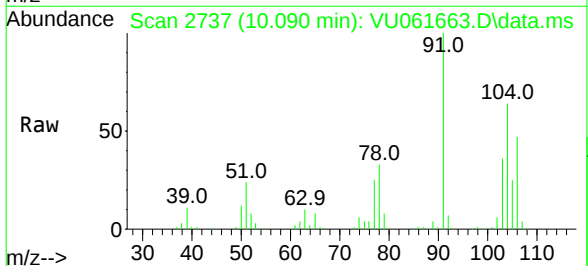
Acq: 14 Nov 2024 11:34

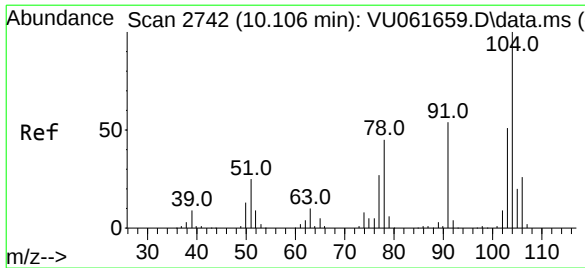
Tgt Ion:106 Resp: 67423

Ion Ratio Lower Upper

106 100

91 213.4 151.3 280.9





#55

Styrene

Concen: 9.134 ug/L

RT: 10.106 min Scan# 2742

Delta R.T. -0.000 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

Instrument :

MSVOA\_U

ClientSampleId :

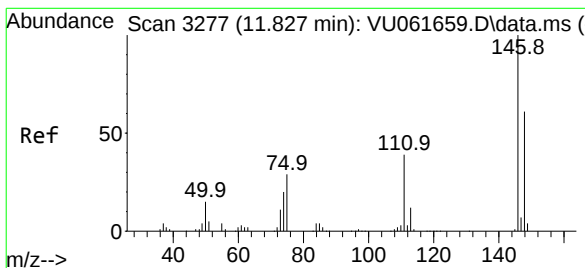
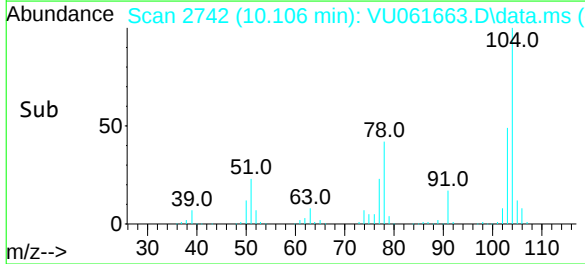
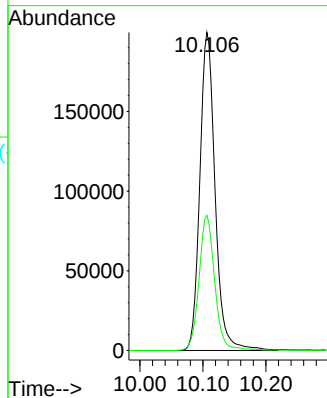
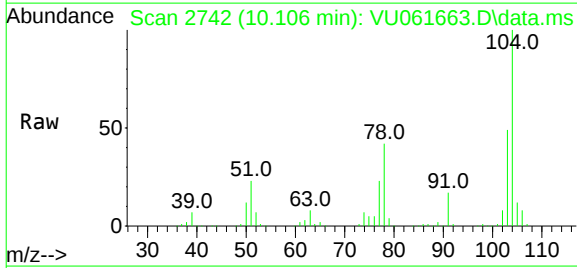
A0AQ2DL

Tgt Ion:104 Resp: 336039

Ion Ratio Lower Upper

104 100

78 42.5 31.6 58.6



#65

1,4-Dichlorobenzene

Concen: 7.152 ug/L

RT: 11.826 min Scan# 3277

Delta R.T. -0.000 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

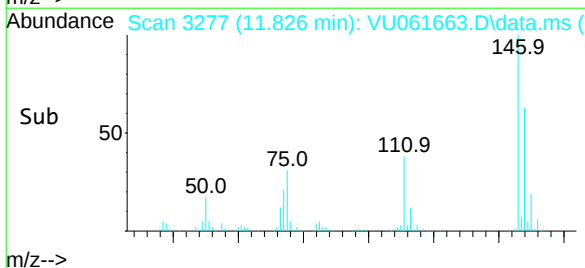
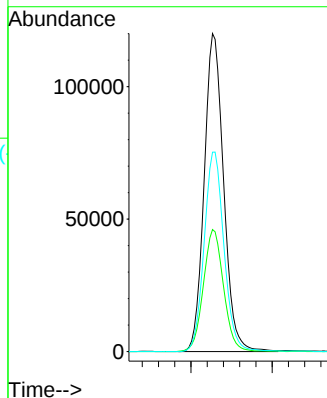
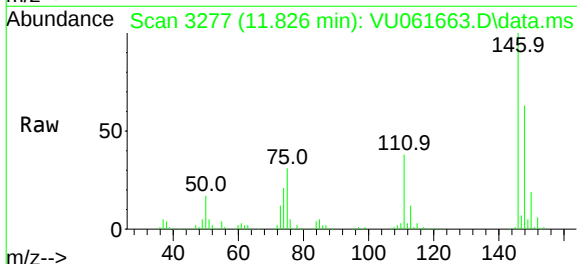
Tgt Ion:146 Resp: 199730

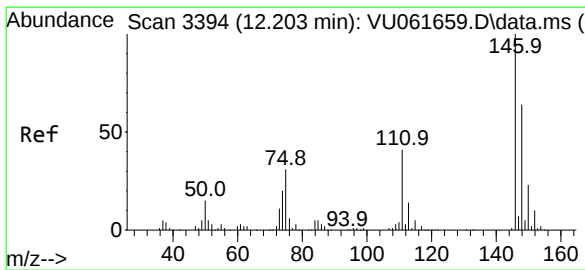
Ion Ratio Lower Upper

146 100

111 38.4 28.8 53.4

148 62.7 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 7.859 ug/L

RT: 12.203 min Scan# 3394

Delta R.T. -0.000 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

Instrument :

MSVOA\_U

ClientSampleId :

A0AQ2DL

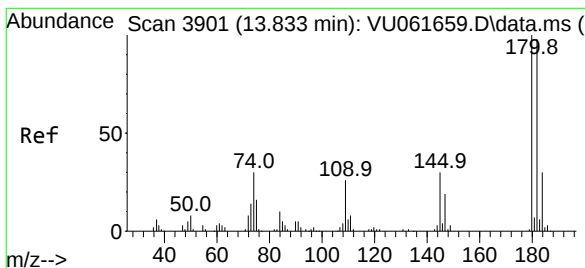
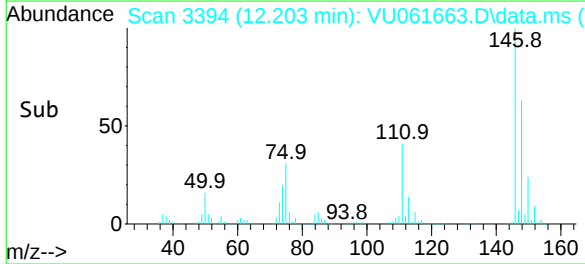
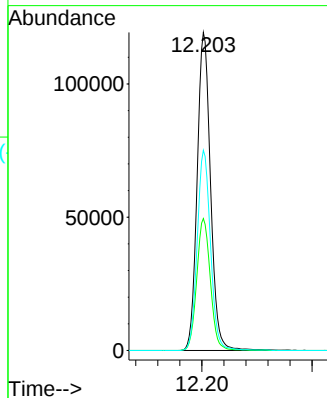
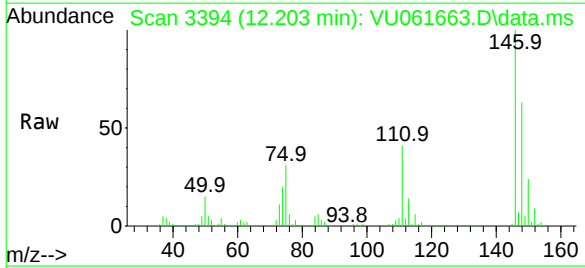
Tgt Ion:146 Resp: 201008

Ion Ratio Lower Upper

146 100

111 41.5 35.2 52.8

148 63.0 52.6 79.0



#70

1,2,4-trichlorobenzene

Concen: 3.111 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.003 min

Lab File: VU061663.D

Acq: 14 Nov 2024 11:34

Tgt Ion:180 Resp: 46295

Ion Ratio Lower Upper

180 100

182 94.1 77.4 116.0

145 29.6 24.5 36.7

