

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111824\  
 Data File : VU061832.D  
 Acq On : 19 Nov 2024 00:09  
 Operator : MD/SY  
 Sample : P4885-01  
 Misc : 25mL/MSVOA\_U/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 19 03:40:32 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111324WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Nov 19 03:37:44 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.238  | 114   | 163442   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.409  | 117   | 154921   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.804 | 152   | 87272    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.595  | 65    | 36398    | 3.447    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 69.000%  |
| 7) Chloroethane-d5            | 1.907  | 69    | 35488    | 3.936    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 78.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.557  | 65    | 16992    | 3.586    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 71.800%  |
| 20) 2-Butanone-d5             | 4.611  | 46    | 109230   | 48.732   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 97.460%  |
| 24) Chloroform-d              | 5.052  | 84    | 91963    | 4.381    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 87.600%  |
| 26) 1,2-Dichloroethane-d4     | 5.692  | 65    | 48565    | 4.821    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 96.400%  |
| 32) Benzene-d6                | 5.717  | 84    | 187714   | 4.380    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 87.600%  |
| 36) 1,2-Dichloropropane-d6    | 6.679  | 67    | 59664    | 4.720    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 94.400%  |
| 41) Toluene-d8                | 7.891  | 98    | 165701   | 4.148    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 83.000%  |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79    | 17766    | 3.816    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 76.400%  |
| 46) 2-Hexanone-d5             | 8.621  | 63    | 88589    | 48.149   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 96.300%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.746 | 84    | 59034    | 5.924    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 118.400% |
| 66) 1,2-Dichlorobenzene-d4    | 12.183 | 152   | 57628    | 3.707    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 74.200%# |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.573  | 101   | 2416     | 0.229    | ug/L   | 90       |
| 16) Methylene chloride        | 3.036  | 84    | 18022    | 1.585    | ug/L   | 96       |
| 22) cis-1,2-Dichloroethene    | 4.656  | 96    | 4511     | 0.370    | ug/L   | 89       |
| 25) Chloroform                | 5.084  | 83    | 4366     | 0.210    | ug/L   | 99       |
| 27) 1,2-Dichloroethane        | 5.801  | 62    | 2414     | 0.185    | ug/L # | 74       |
| 29) 1,1,1-Trichloroethane     | 5.306  | 97    | 20209    | 1.146    | ug/L   | 97       |
| 31) Carbon tetrachloride      | 5.300  | 117   | 2449     | 0.163    | ug/L   | 98       |
| 34) Trichloroethene           | 6.534  | 95    | 68775    | 5.432    | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.682  | 83    | 13080    | 0.685    | ug/L # | 34       |
| 37) 1,2-Dichloropropane       | 6.679  | 63    | 6430     | 0.541    | ug/L # | 89       |
| 42) Toluene                   | 7.965  | 91    | 16639    | 0.330    | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 8.541  | 97    | 5548     | 0.640    | ug/L # | 1        |
| 47) Tetrachloroethene         | 8.544  | 164   | 667496   | 70.164   | ug/L   | 98       |
| 49) Dibromochloromethane      | 8.544  | 129   | 651349   | 71.636   | ug/L # | 10       |
| 51) Chlorobenzene             | 9.441  | 112   | 9290     | 0.286    | ug/L   | 93       |
| 57) 1,1,2,2-Tetrachloroethane | 10.772 | 83    | 1799     | 0.170    | ug/L # | 92       |
| 61) 1,2,3-Trichloropropane    | 11.804 | 75    | 10216    | 1.243    | ug/L # | 66       |
| -----                         |        |       |          |          |        |          |

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Acq On : 19 Nov 2024 00:09  
Operator : MD/SY  
Sample : P4885-01  
Misc : 25mL/MSVOA\_U/WATER  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

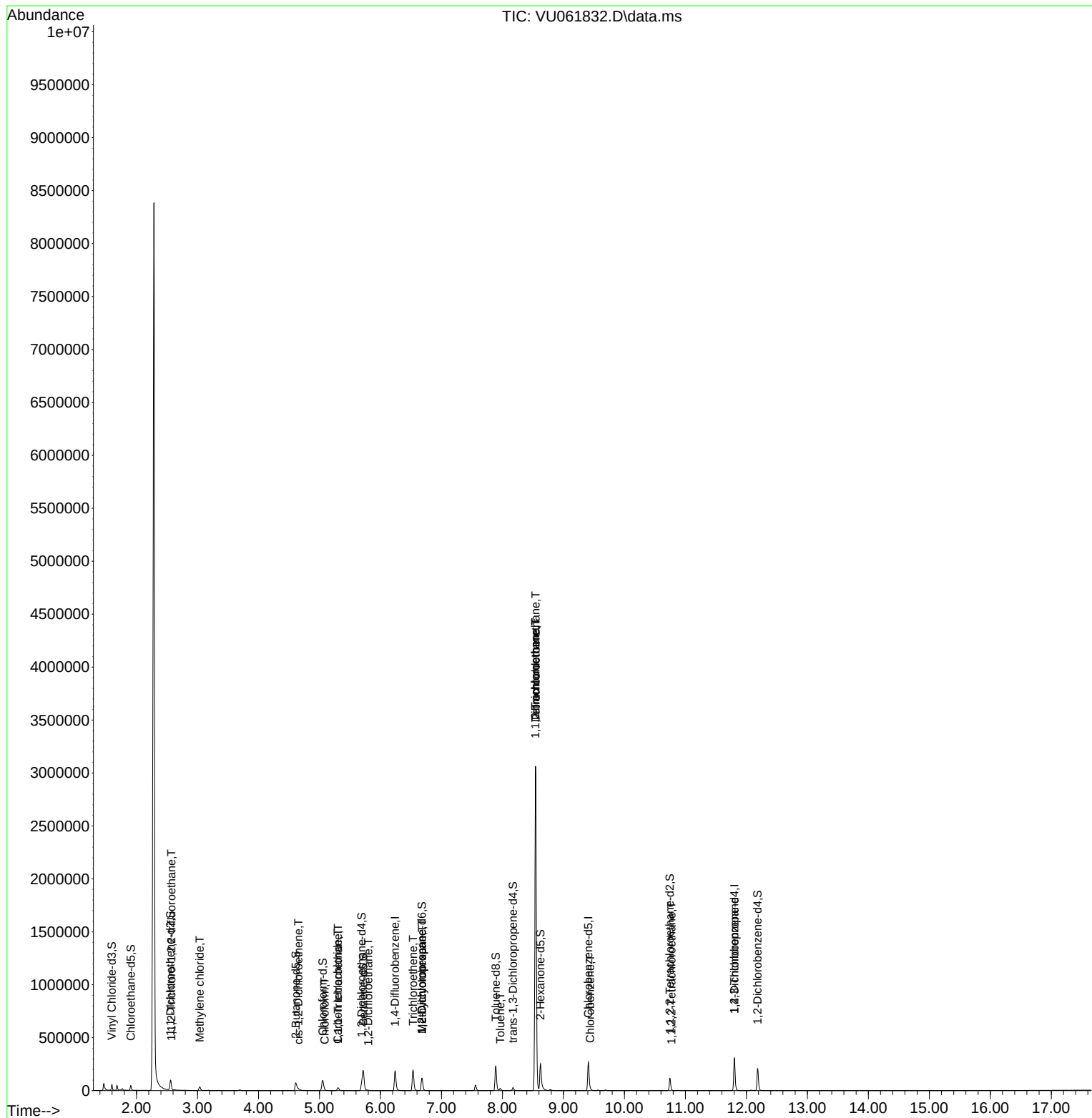
Quant Time: Nov 19 03:40:32 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111324WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Tue Nov 19 03:37:44 2024  
Response via : Initial Calibration

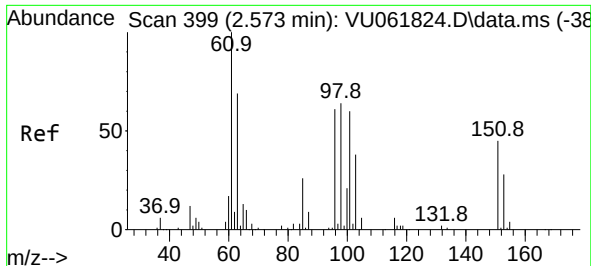
| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

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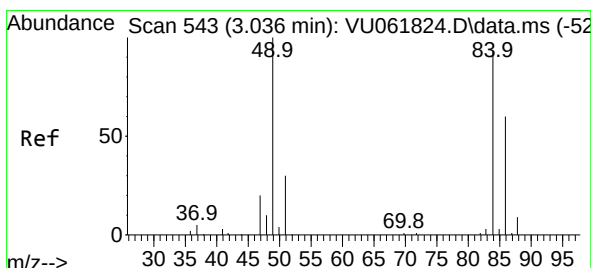
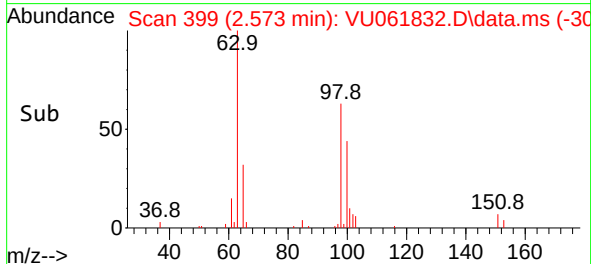
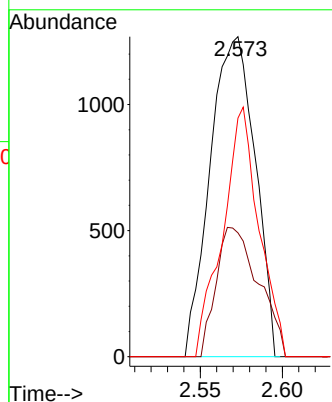
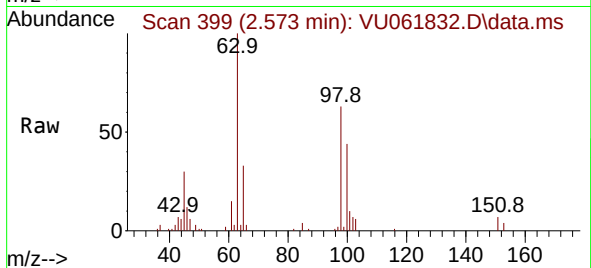




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.229 ug/L  
RT: 2.573 min Scan# 399  
Delta R.T. 0.000 min  
Lab File: VU061832.D  
Acq: 19 Nov 2024 00:09

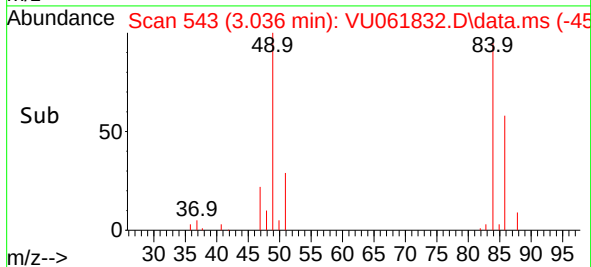
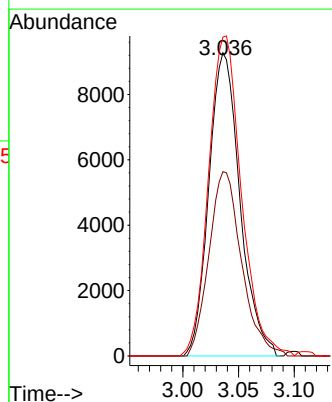
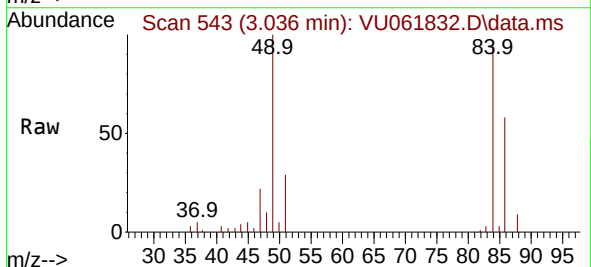
Instrument :  
MSVOA\_U  
ClientSampleId :

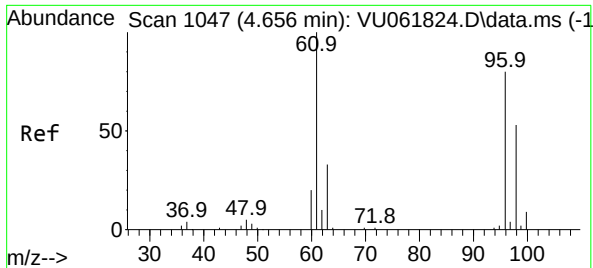
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 2416  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 38.1  | 35.1  | 52.7  |
| 151      | 62.8  | 56.9  | 85.3  |



#16  
Methylene chloride  
Concen: 1.585 ug/L  
RT: 3.036 min Scan# 543  
Delta R.T. 0.000 min  
Lab File: VU061832.D  
Acq: 19 Nov 2024 00:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 18022 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 86       | 60.8  | 45.1  | 83.7  |
| 49       | 105.2 | 76.3  | 141.7 |

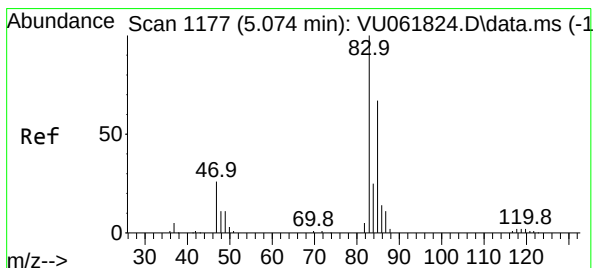
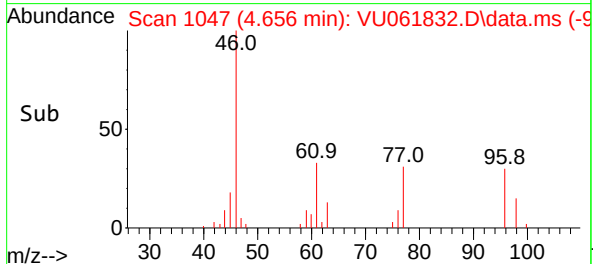
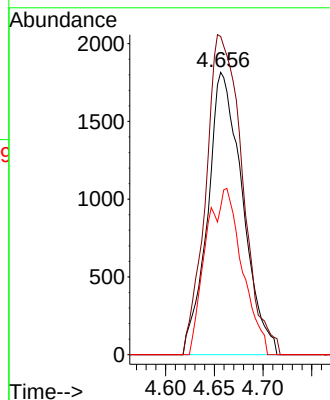
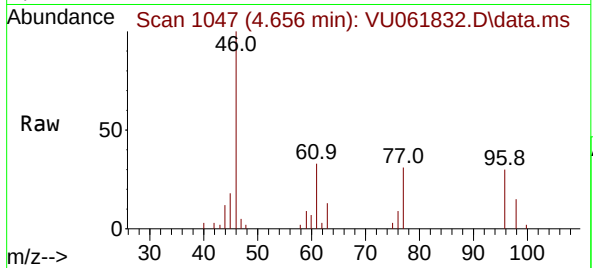




#22  
 cis-1,2-Dichloroethene  
 Concen: 0.370 ug/L  
 RT: 4.656 min Scan# 1180  
 Delta R.T. 0.000 min  
 Lab File: VU061832.D  
 Acq: 19 Nov 2024 00:09

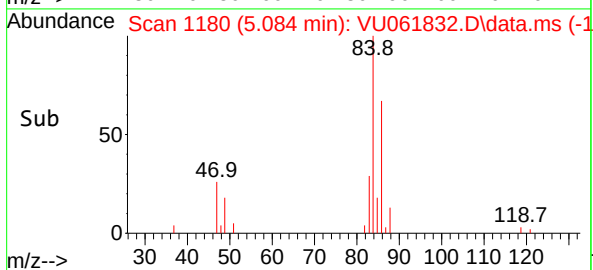
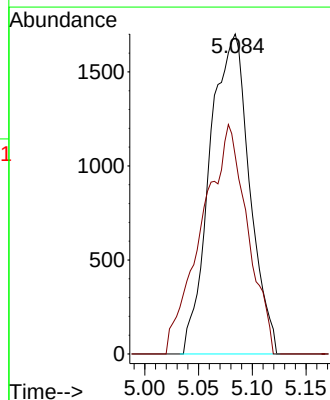
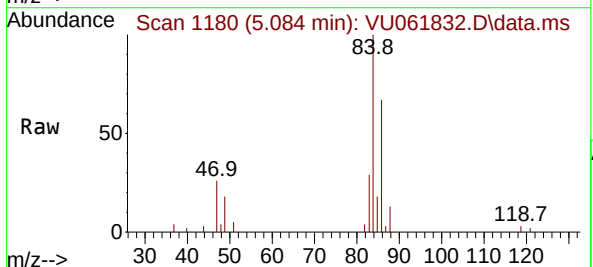
Instrument :  
 MSVOA\_U  
 ClientSampleId :

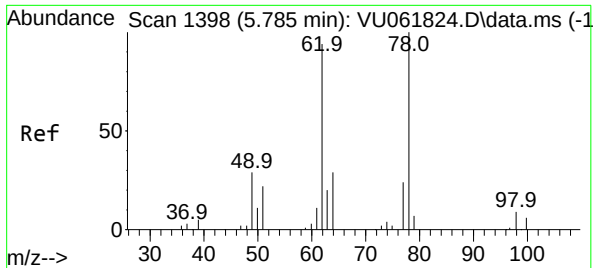
Tgt Ion: 96 Resp: 4511  
 Ion Ratio Lower Upper  
 96 100  
 61 112.7 85.6 159.0  
 98 52.3 45.6 84.8



#25  
 Chloroform  
 Concen: 0.210 ug/L  
 RT: 5.084 min Scan# 1180  
 Delta R.T. 0.010 min  
 Lab File: VU061832.D  
 Acq: 19 Nov 2024 00:09

Tgt Ion: 83 Resp: 4366  
 Ion Ratio Lower Upper  
 83 100  
 85 61.9 44.1 81.9

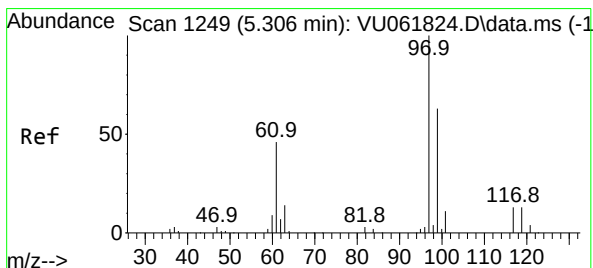
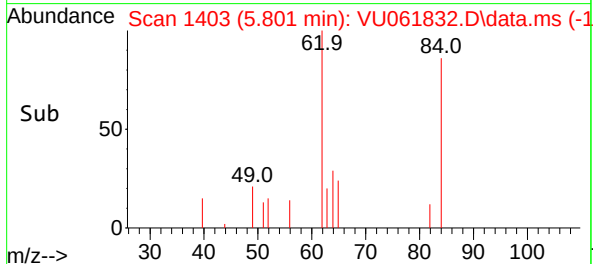
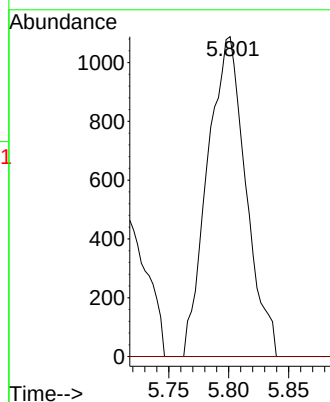
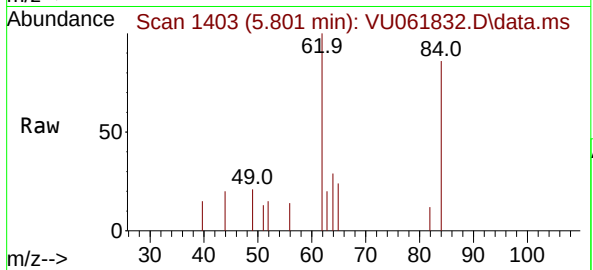




#27  
1,2-Dichloroethane  
Concen: 0.185 ug/L  
RT: 5.801 min Scan# 1403  
Delta R.T. 0.016 min  
Lab File: VU061832.D  
Acq: 19 Nov 2024 00:09

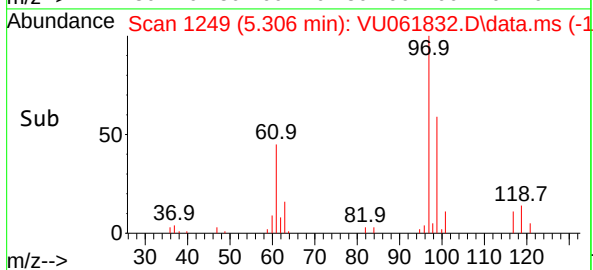
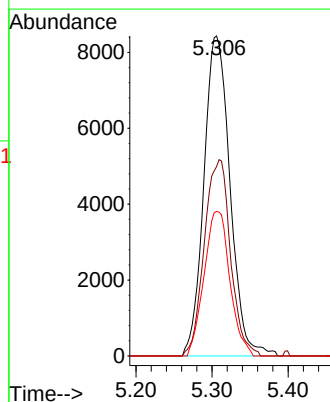
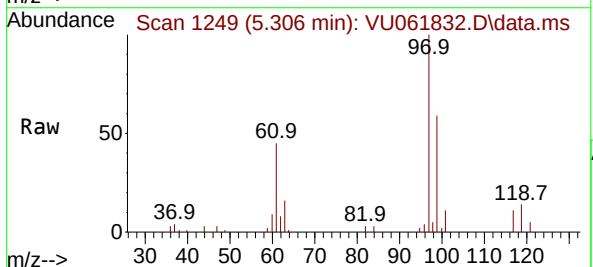
Instrument :  
MSVOA\_U  
ClientSampleId :

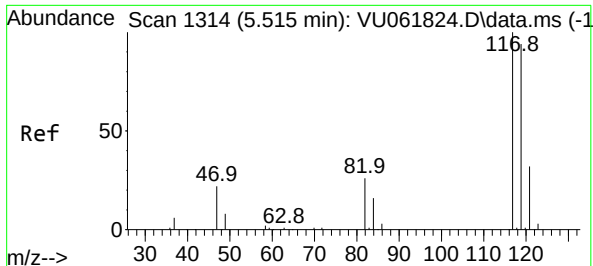
Tgt Ion: 62 Resp: 2414  
Ion Ratio Lower Upper  
62 100  
98 0.0 7.7 11.5#



#29  
1,1,1-Trichloroethane  
Concen: 1.146 ug/L  
RT: 5.306 min Scan# 1249  
Delta R.T. 0.000 min  
Lab File: VU061832.D  
Acq: 19 Nov 2024 00:09

Tgt Ion: 97 Resp: 20209  
Ion Ratio Lower Upper  
97 100  
99 61.3 51.7 77.5  
61 44.4 35.4 53.0

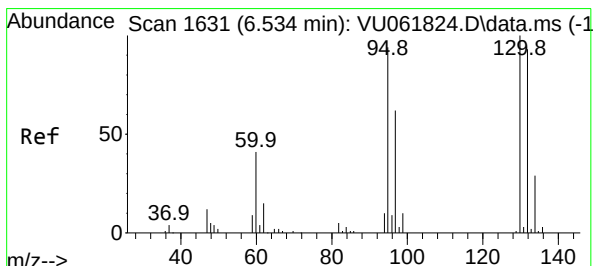
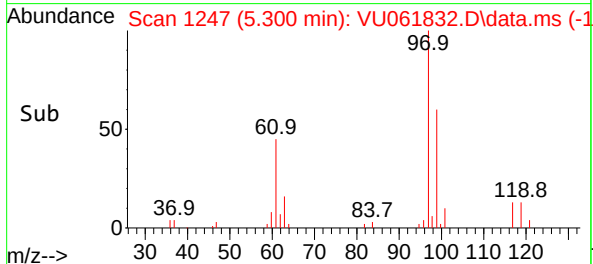
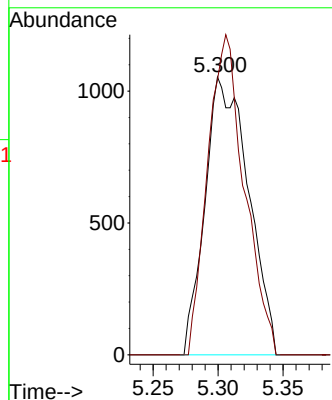
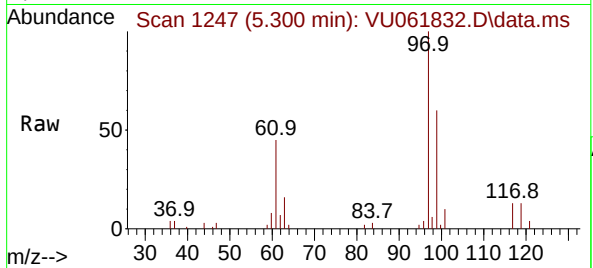




#31  
Carbon tetrachloride  
Concen: 0.163 ug/L  
RT: 5.300 min Scan# 117  
Delta R.T. -0.215 min  
Lab File: VU061832.D  
Acq: 19 Nov 2024 00:09

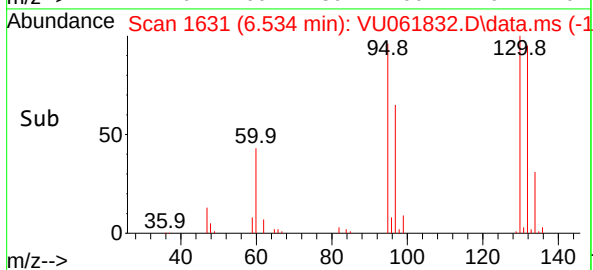
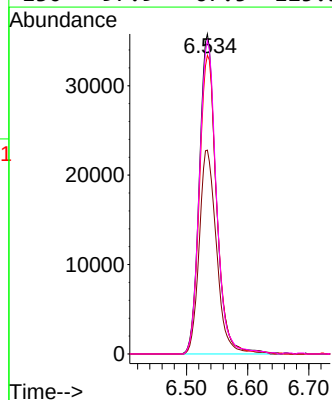
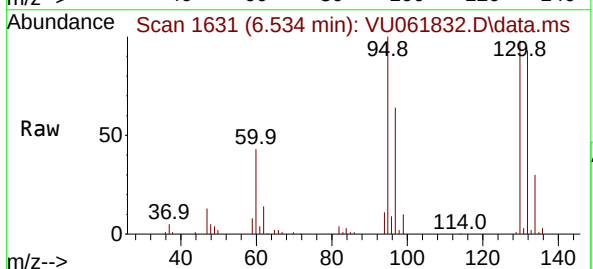
Instrument :  
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ClientSampleId :

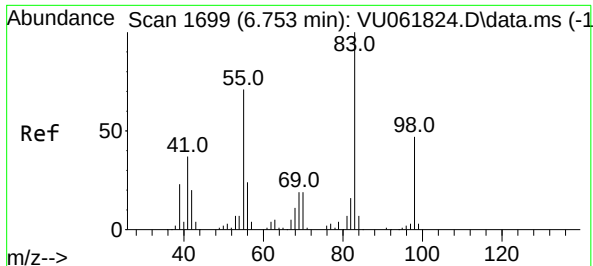
Tgt Ion:117 Resp: 2449  
Ion Ratio Lower Upper  
117 100  
119 97.3 76.6 114.8



#34  
Trichloroethene  
Concen: 5.432 ug/L  
RT: 6.534 min Scan# 1631  
Delta R.T. 0.000 min  
Lab File: VU061832.D  
Acq: 19 Nov 2024 00:09

Tgt Ion: 95 Resp: 68775  
Ion Ratio Lower Upper  
95 100  
97 63.7 43.5 80.9  
132 93.4 65.2 121.0  
130 97.9 67.5 125.3

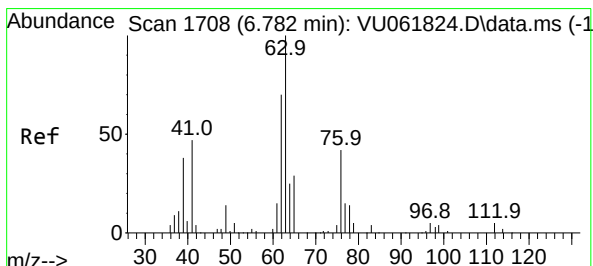
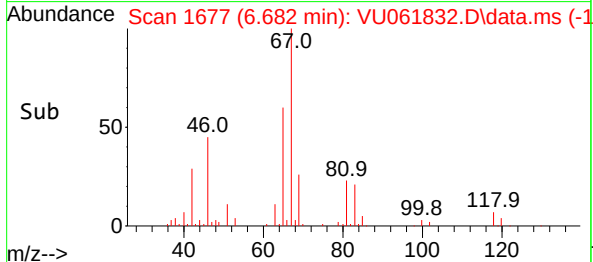
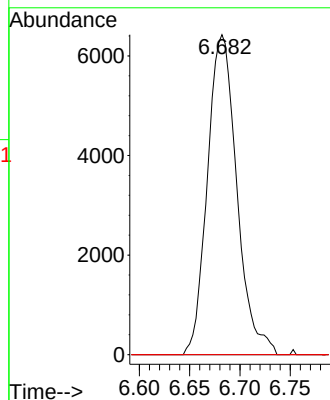
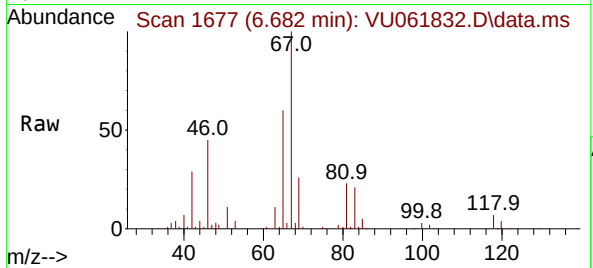




#35  
Methylcyclohexane  
Concen: 0.685 ug/L  
RT: 6.682 min Scan# 1677  
Delta R.T. -0.071 min  
Lab File: VU061832.D  
Acq: 19 Nov 2024 00:09

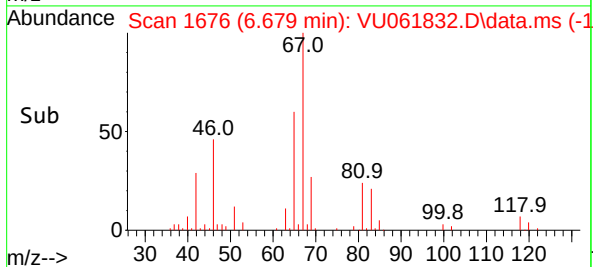
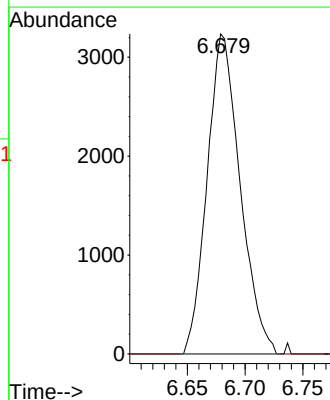
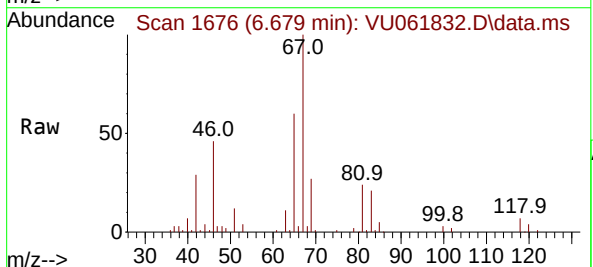
Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 83 Resp: 13080  
Ion Ratio Lower Upper  
83 100  
55 0.0 56.4 84.6#  
98 22.7 37.7 56.5#

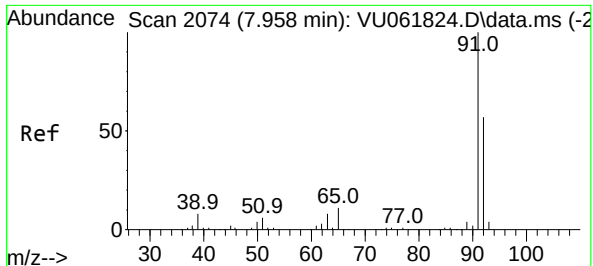


#37  
1,2-Dichloropropane  
Concen: 0.541 ug/L  
RT: 6.679 min Scan# 1676  
Delta R.T. -0.103 min  
Lab File: VU061832.D  
Acq: 19 Nov 2024 00:09

Tgt Ion: 63 Resp: 6430  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.0 4.4#







#42

Toluene

Concen: 0.330 ug/L

RT: 7.965 min Scan# 2074

Delta R.T. 0.007 min

Lab File: VU061832.D

Acq: 19 Nov 2024 00:09

Instrument :

MSVOA\_U

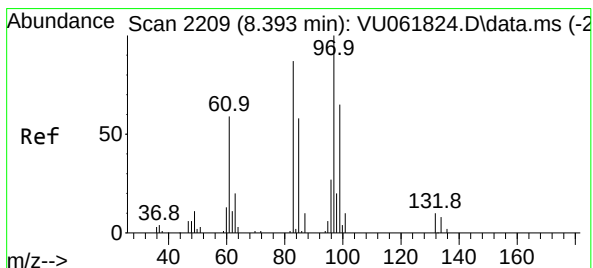
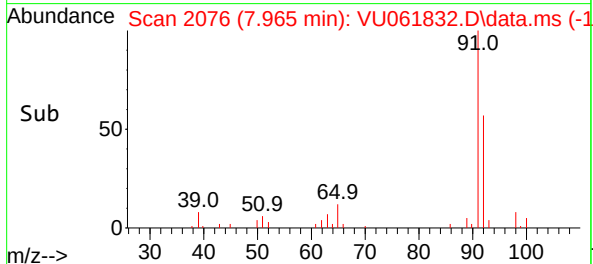
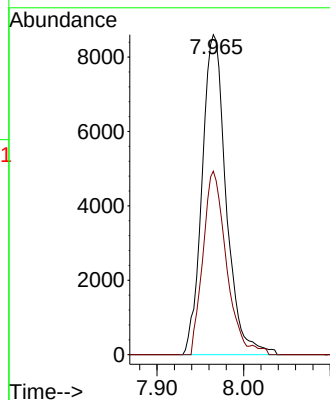
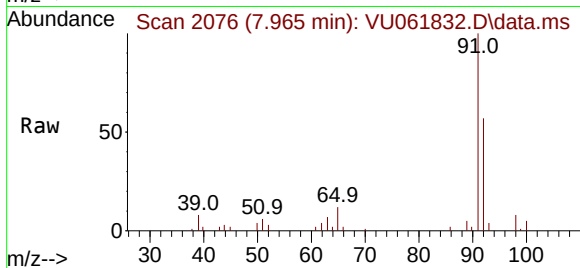
ClientSampleId :

Tgt Ion: 91 Resp: 16639

Ion Ratio Lower Upper

91 100

92 57.4 39.7 73.7



#45

1,1,2-Trichloroethane

Concen: 0.640 ug/L

RT: 8.541 min Scan# 2255

Delta R.T. 0.148 min

Lab File: VU061832.D

Acq: 19 Nov 2024 00:09

Tgt Ion: 97 Resp: 5548

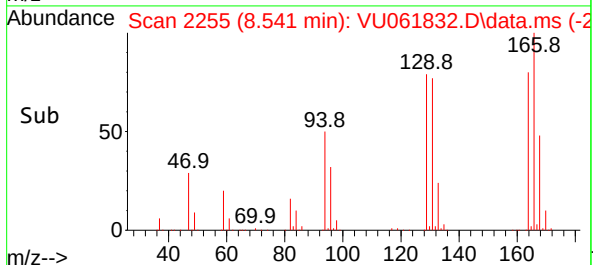
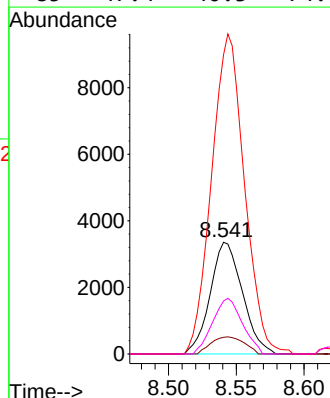
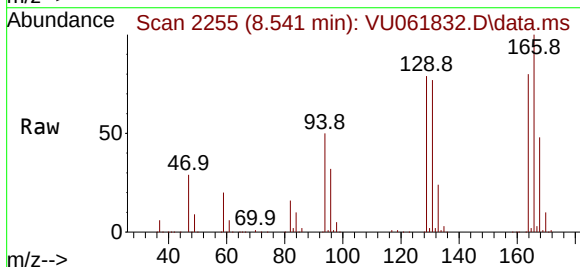
Ion Ratio Lower Upper

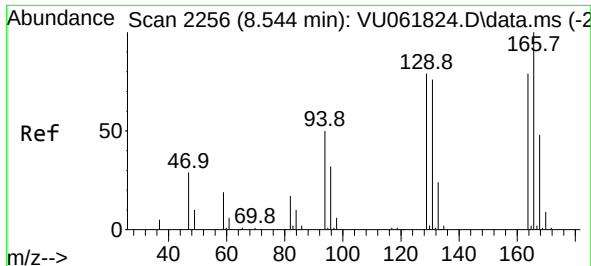
97 100

99 14.9 43.8 81.3#

83 267.9 63.2 117.4#

85 47.4 40.3 74.8





#47

Tetrachloroethene

Concen: 70.164 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. 0.000 min

Lab File: VU061832.D

Acq: 19 Nov 2024 00:09

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion:164 Resp: 667496

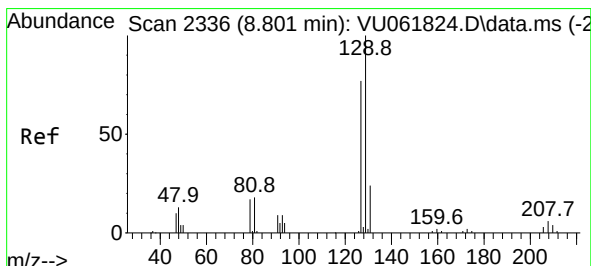
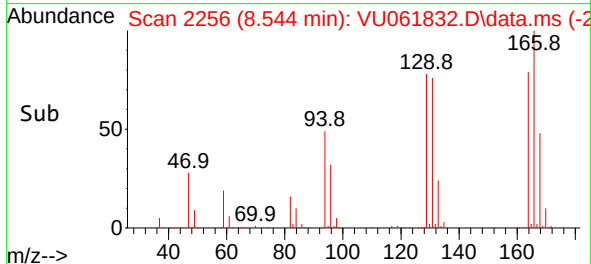
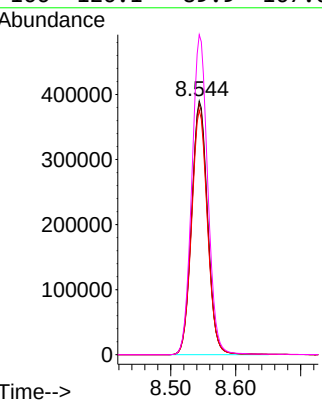
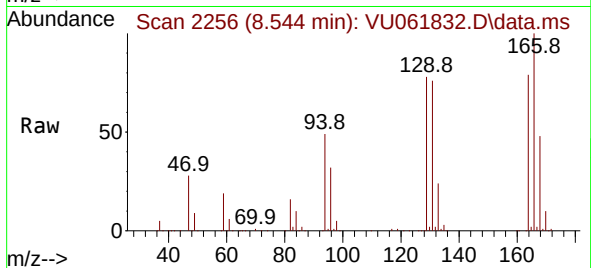
Ion Ratio Lower Upper

164 100

129 99.0 71.7 133.3

131 96.4 68.2 126.6

166 126.1 89.9 167.0



#49

Dibromochloromethane

Concen: 71.636 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.257 min

Lab File: VU061832.D

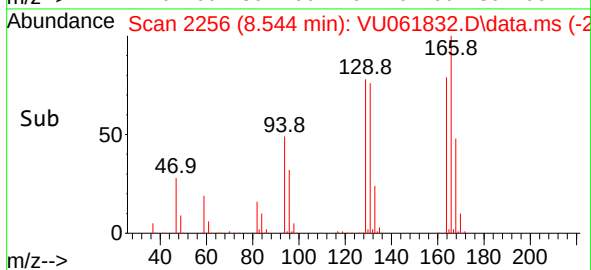
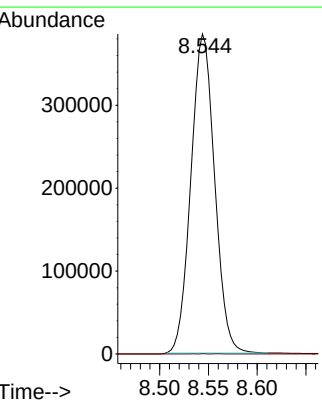
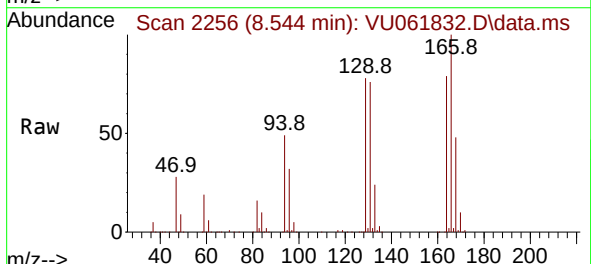
Acq: 19 Nov 2024 00:09

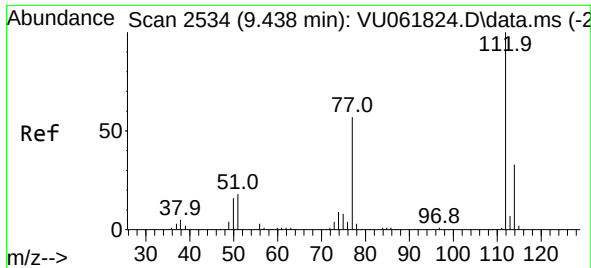
Tgt Ion:129 Resp: 651349

Ion Ratio Lower Upper

129 100

127 0.1 55.1 102.3#

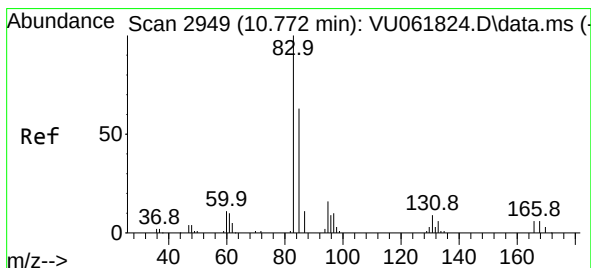
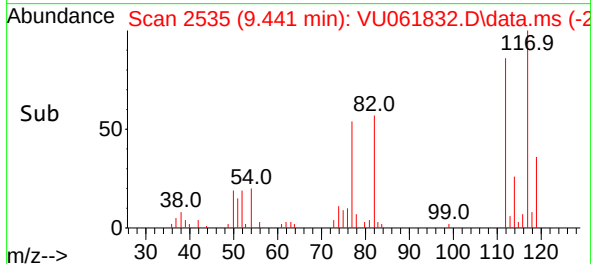
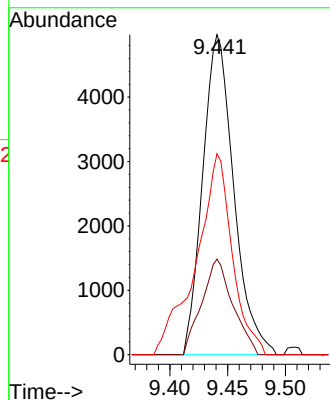
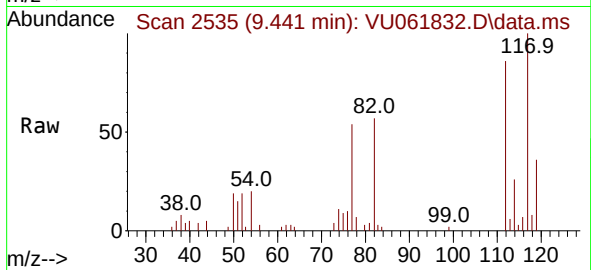




#51  
Chlorobenzene  
Concen: 0.286 ug/L  
RT: 9.441 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU061832.D  
Acq: 19 Nov 2024 00:09

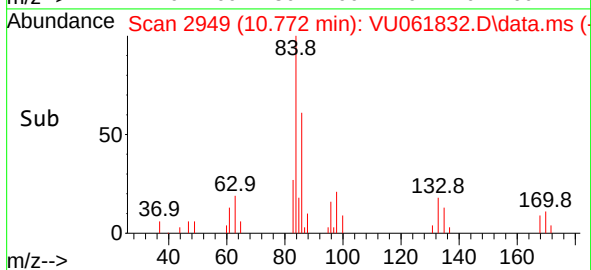
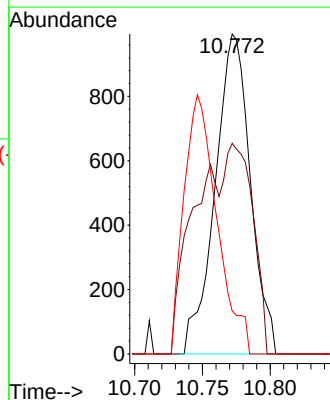
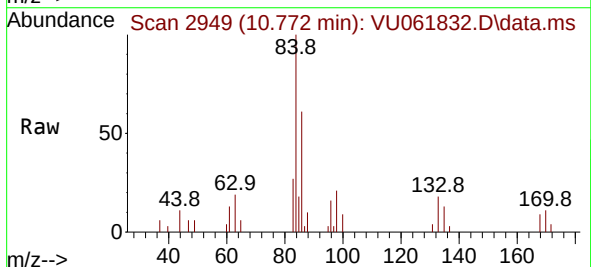
Instrument :  
MSVOA\_U  
ClientSampleId :

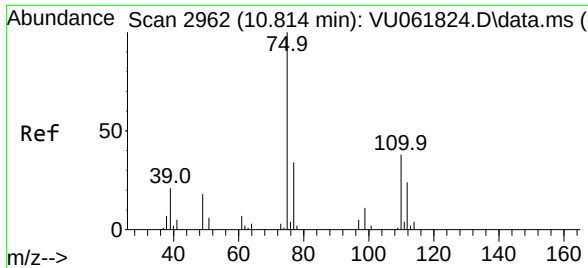
Tgt Ion:112 Resp: 9290  
Ion Ratio Lower Upper  
112 100  
114 29.9 22.5 41.9  
77 62.8 45.3 67.9



#57  
1,1,2,2-Tetrachloroethane  
Concen: 0.170 ug/L  
RT: 10.772 min Scan# 2949  
Delta R.T. 0.000 min  
Lab File: VU061832.D  
Acq: 19 Nov 2024 00:09

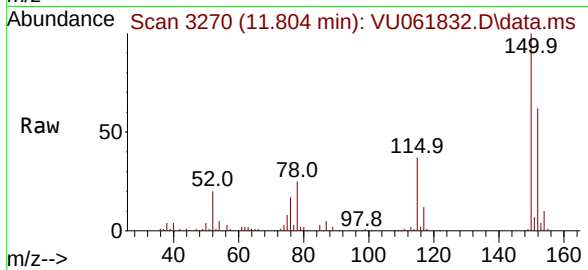
Tgt Ion: 83 Resp: 1799  
Ion Ratio Lower Upper  
83 100  
85 65.8 41.9 77.9  
131 13.4 7.8 11.6#





#61  
 1,2,3-Trichloropropane  
 Concen: 1.243 ug/L  
 RT: 11.804 min Scan# 31  
 Delta R.T. 0.990 min  
 Lab File: VU061832.D  
 Acq: 19 Nov 2024 00:09

Instrument :  
 MSVOA\_U  
 ClientSampleId :



Tgt Ion: 75 Resp: 10216  
 Ion Ratio Lower Upper  
 75 100  
 110 2.7 31.3 46.9#  
 77 34.5 26.0 39.0

