

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022224\  
 Data File : VD078516.D  
 Acq On : 22 Feb 2024 14:38  
 Operator : RP/MD  
 Sample : P1538-03RE  
 Misc : 5.03G/5ml/MSVOA\_D/SOIL/B  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 20241098-COMPOSITE-35N-N-4-03

Quant Time: Feb 23 01:04:01 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021324S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 14 01:16:20 2024  
 Response via : Initial Calibration

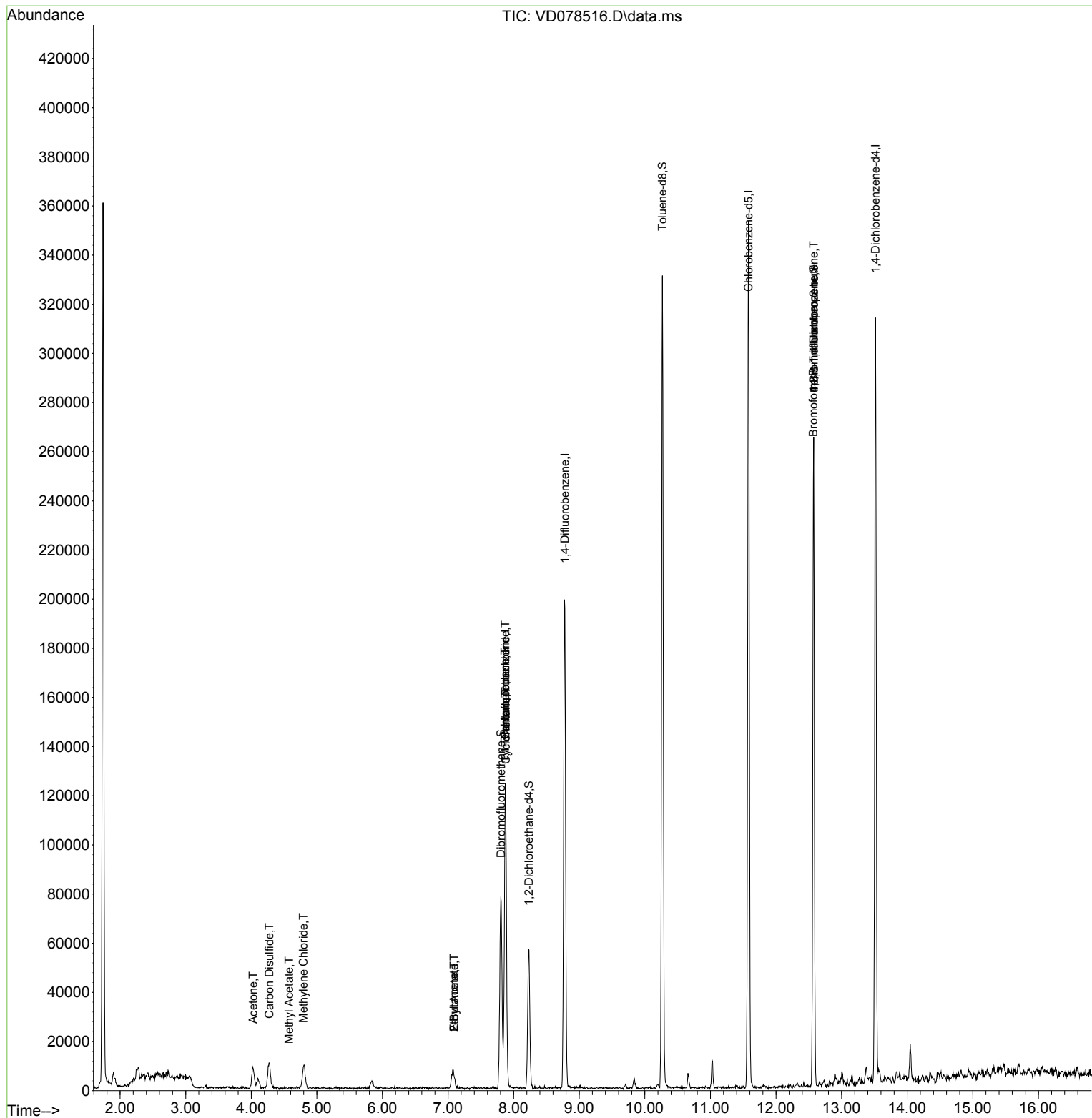
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 7.875  | 168   | 94568    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 186004   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 206199   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 82293    | 50.000   | ug/l   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 43253    | 42.301   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | =      | 84.600%  |
| 35) Dibromofluoromethane      | 7.810  | 113   | 58898    | 49.849   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | =      | 99.700%  |
| 50) Toluene-d8                | 10.269 | 98    | 235509   | 49.828   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | =      | 99.660%  |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 79267    | 57.631   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | =      | 115.260% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          | Qvalue |          |
| 16) Acetone                   | 4.028  | 43    | 14040    | 51.349   | ug/l   | 90       |
| 17) Carbon Disulfide          | 4.275  | 76    | 21984    | 6.337    | ug/l   | 100      |
| 18) Methyl Acetate            | 4.575  | 43    | 63       | 4.019    | ug/l # | 42       |
| 20) Methylene Chloride        | 4.793  | 84    | 7905     | 3.981    | ug/l # | 88       |
| 25) 2-Butanone                | 7.093  | 43    | 4937     | 3.582    | ug/l # | 61       |
| 31) Cyclohexane               | 7.881  | 56    | 2382     | 1.377    | ug/l # | 8        |
| 36) 1,1-Dichloropropene       | 7.869  | 75    | 8497     | 4.629    | ug/l # | 45       |
| 37) Ethyl Acetate             | 7.093  | 43    | 4937     | 7.673    | ug/l # | 68       |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 9961     | 5.480    | ug/l # | 15       |
| 71) Bromoform                 | 12.569 | 173   | 850      | 1.060    | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 41333    | 59.162   | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 41333    | 122.821  | ug/l # | 17       |
| -----                         |        |       |          |          |        |          |

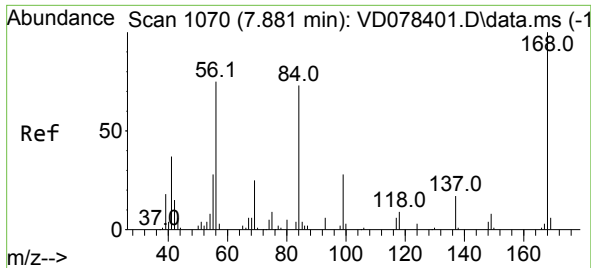
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022224\  
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Sample : P1538-03RE  
Misc : 5.03G/5ml/MSVOA\_D/SOIL/B  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
20241098-COMPOSITE-35N-N-4-03

Quant Time: Feb 23 01:04:01 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021324S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 14 01:16:20 2024  
Response via : Initial Calibration

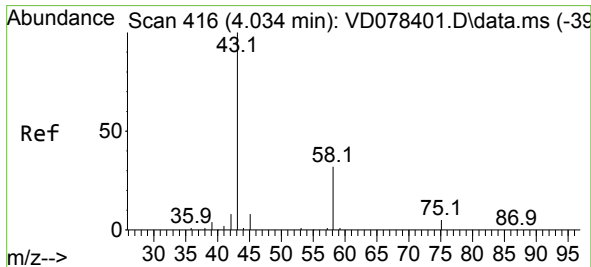
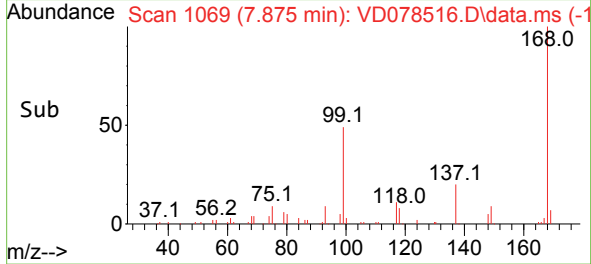
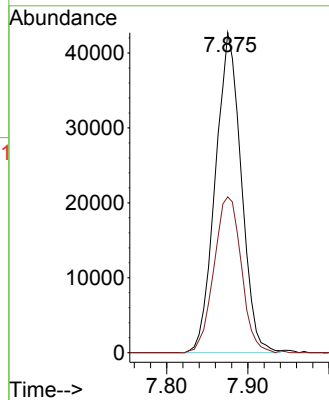
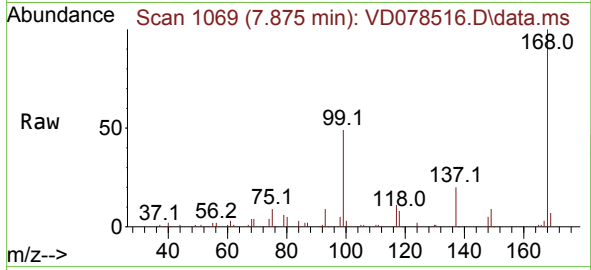




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.006 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

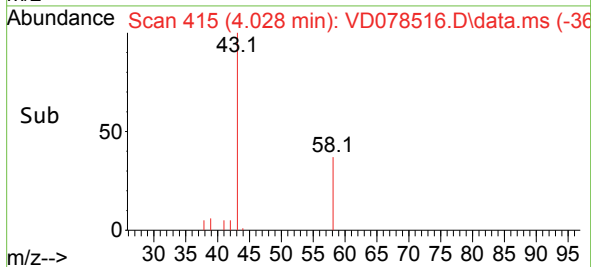
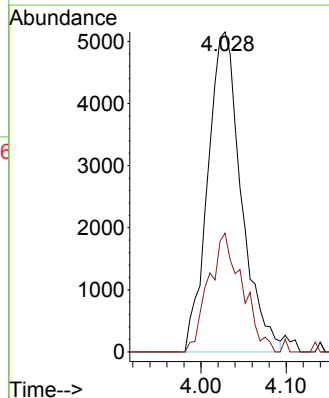
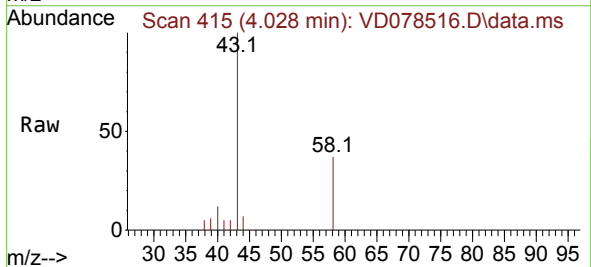
Instrument :  
MSVOA\_D  
ClientSampleId :  
20241098-COMPOSITE-35N-N-4-03

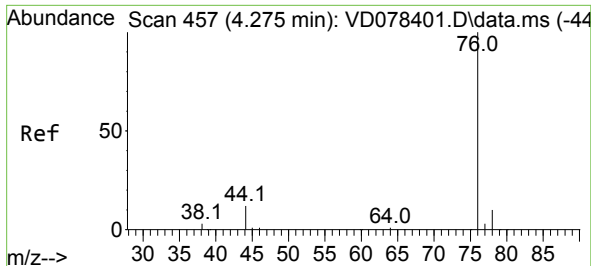
Tgt Ion:168 Resp: 94568  
Ion Ratio Lower Upper  
168 100  
99 48.7 36.7 55.1



#16  
Acetone  
Concen: 51.349 ug/l  
RT: 4.028 min Scan# 415  
Delta R.T. -0.006 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

Tgt Ion: 43 Resp: 14040  
Ion Ratio Lower Upper  
43 100  
58 37.1 34.7 52.1

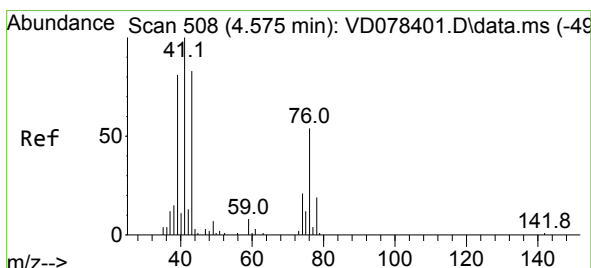
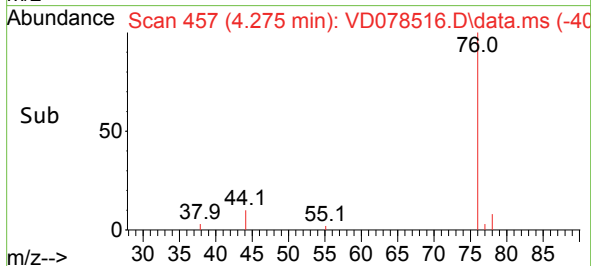
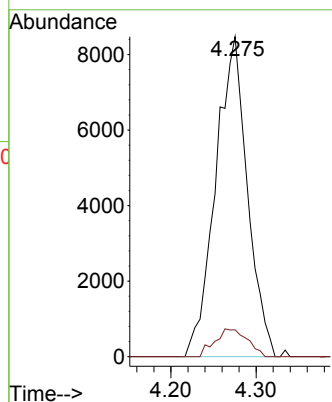
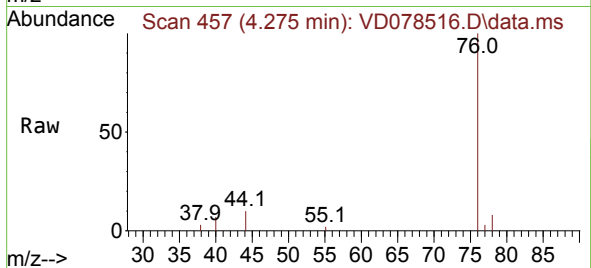




#17  
Carbon Disulfide  
Concen: 6.337 ug/l  
RT: 4.275 min Scan# 417  
Delta R.T. -0.000 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

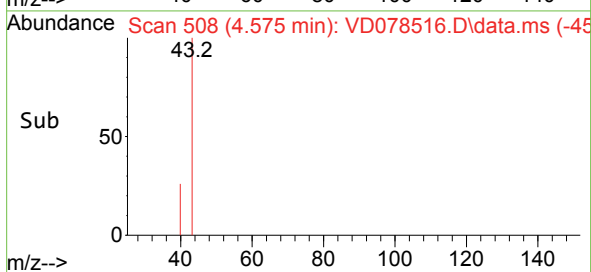
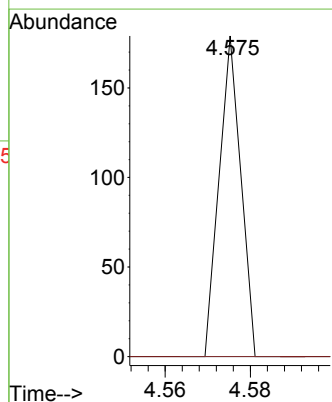
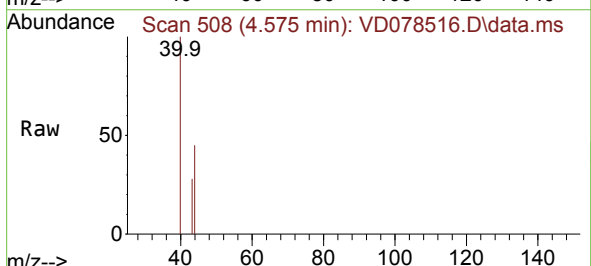
Instrument : MSVOA\_D  
ClientSampleId : 20241098-COMPOSITE-35N-N-4-03

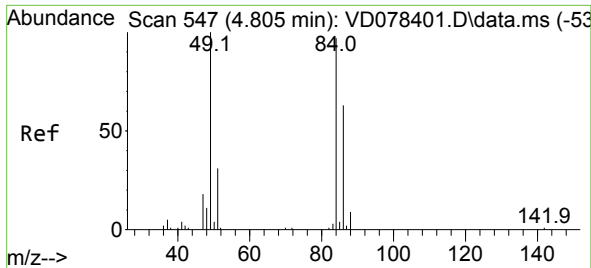
Tgt Ion: 76 Resp: 21984  
Ion Ratio Lower Upper  
76 100  
78 8.4 6.8 10.2



#18  
Methyl Acetate  
Concen: 4.019 ug/l  
RT: 4.575 min Scan# 508  
Delta R.T. 0.000 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

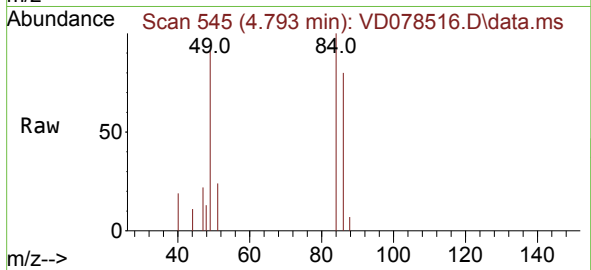
Tgt Ion: 43 Resp: 63  
Ion Ratio Lower Upper  
43 100  
74 0.0 26.4 39.6#



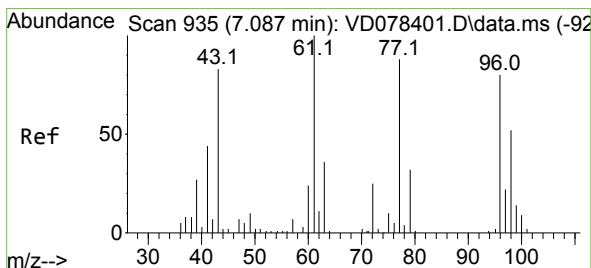
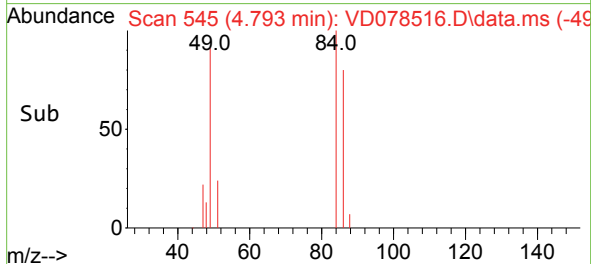
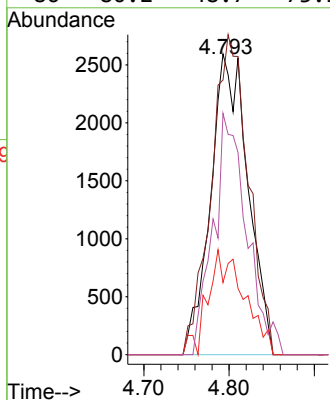


#20  
Methylene Chloride  
Concen: 3.981 ug/l  
RT: 4.793 min Scan# 54  
Delta R.T. -0.012 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

Instrument :  
MSVOA\_D  
ClientSampleId :  
20241098-COMPOSITE-35N-N-4-03

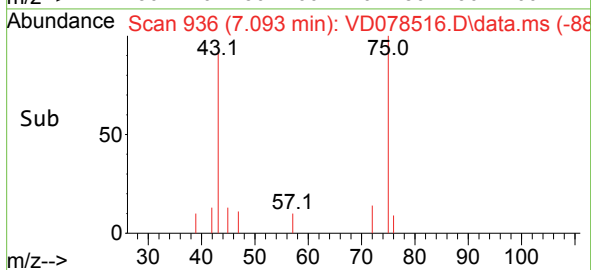
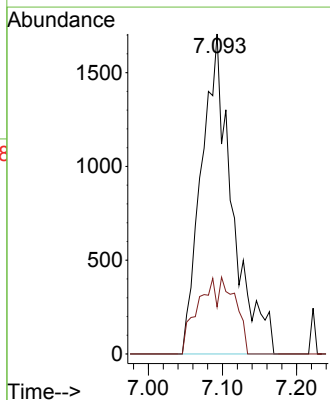
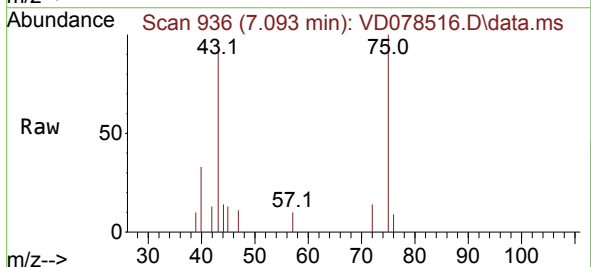


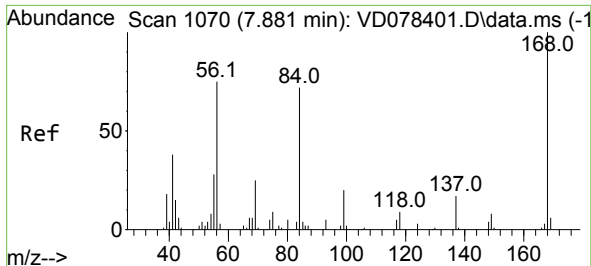
Tgt Ion: 84 Resp: 7905  
Ion Ratio Lower Upper  
84 100  
49 91.4 71.4 107.2  
51 24.0 24.5 36.7#  
86 80.2 48.7 73.1#



#25  
2-Butanone  
Concen: 3.582 ug/l  
RT: 7.093 min Scan# 936  
Delta R.T. 0.006 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

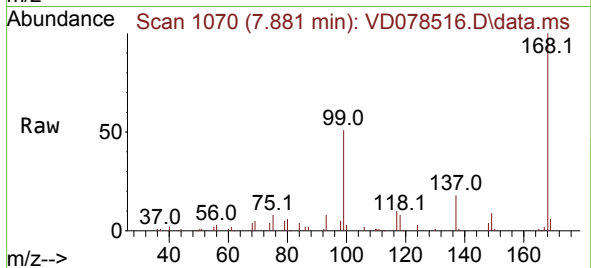
Tgt Ion: 43 Resp: 4937  
Ion Ratio Lower Upper  
43 100  
72 14.7 30.7 46.1#



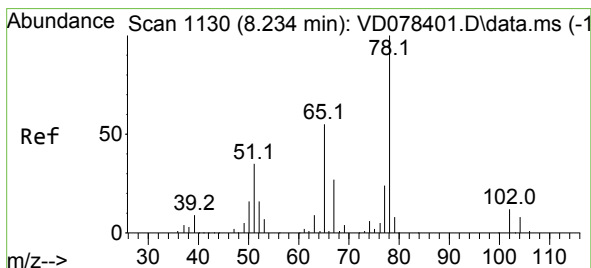
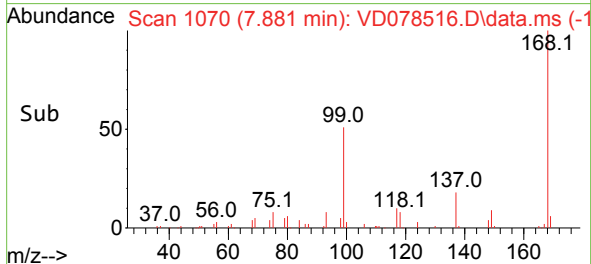
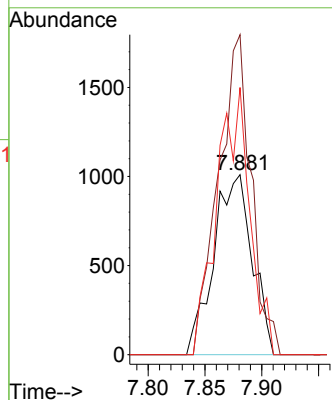


#31  
Cyclohexane  
Concen: 1.377 ug/l  
RT: 7.881 min Scan# 1070  
Delta R.T. -0.000 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

Instrument :  
MSVOA\_D  
ClientSampleId :  
20241098-COMPOSITE-35N-N-4-03

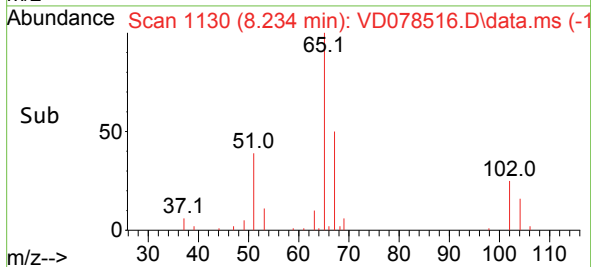
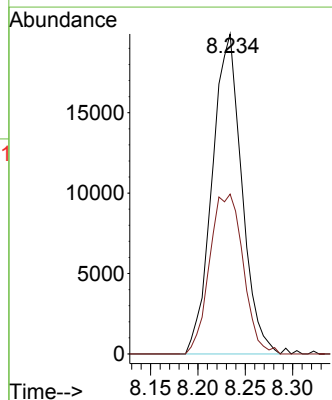
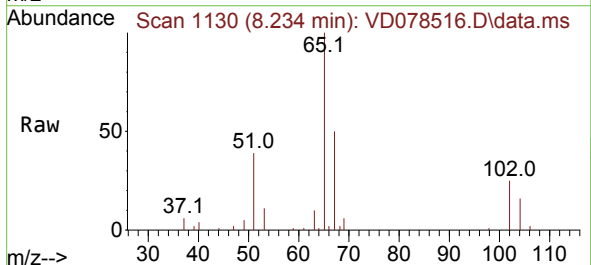


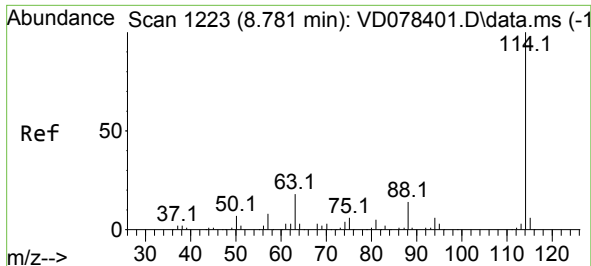
Tgt Ion: 56 Resp: 2382  
Ion Ratio Lower Upper  
56 100  
69 177.8 28.6 43.0#  
84 148.5 84.8 127.2#



#33  
1,2-Dichloroethane-d4  
Concen: 42.301 ug/l  
RT: 8.234 min Scan# 1130  
Delta R.T. -0.000 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

Tgt Ion: 65 Resp: 43253  
Ion Ratio Lower Upper  
65 100  
67 56.5 0.0 115.0

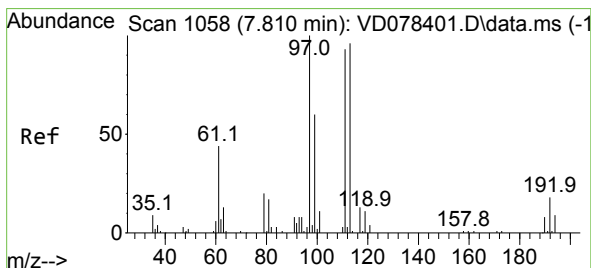
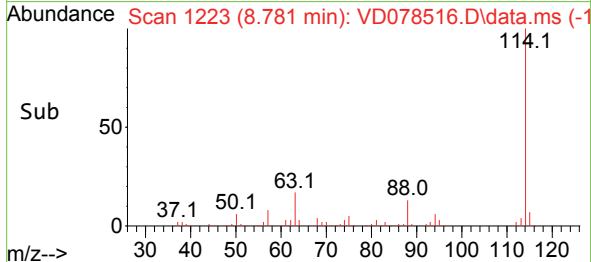
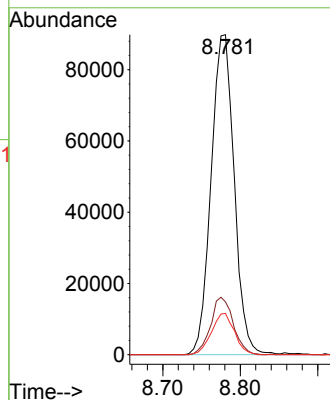
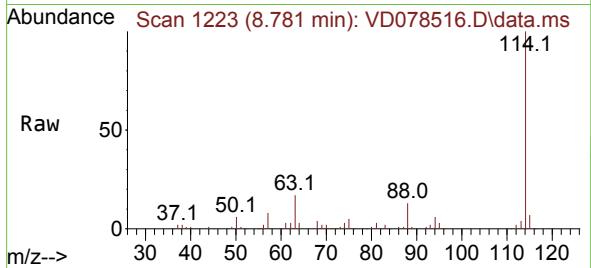




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.781 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

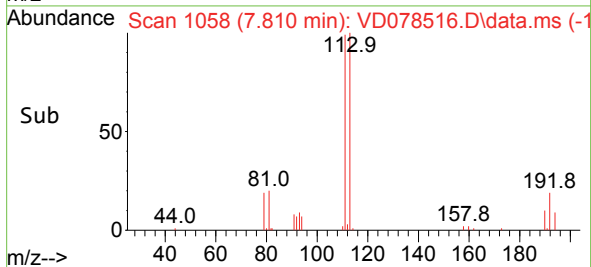
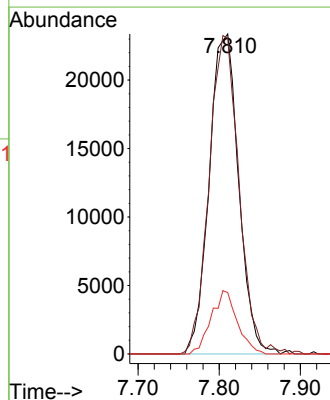
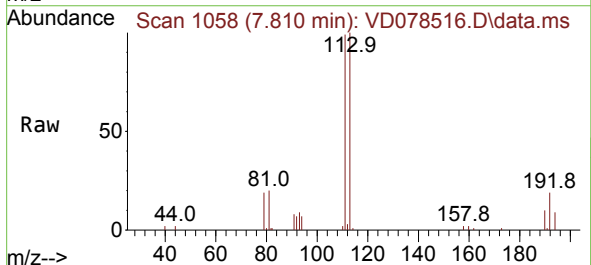
Instrument :  
MSVOA\_D  
ClientSampleId :  
20241098-COMPOSITE-35N-N-4-03

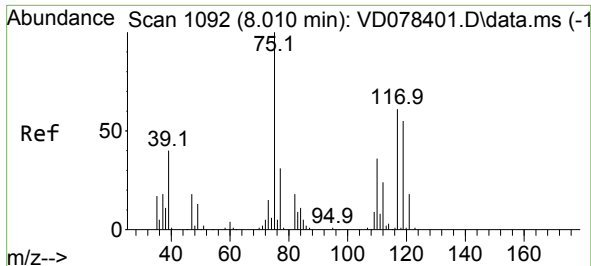
Tgt Ion:114 Resp: 186004  
Ion Ratio Lower Upper  
114 100  
63 16.5 0.0 33.4  
88 12.9 0.0 26.2



#35  
Dibromofluoromethane  
Concen: 49.849 ug/l  
RT: 7.810 min Scan# 1058  
Delta R.T. -0.000 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

Tgt Ion:113 Resp: 58898  
Ion Ratio Lower Upper  
113 100  
111 100.8 84.7 127.1  
192 17.6 16.8 25.2





#36

1,1-Dichloropropene

Concen: 4.629 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VD078516.D

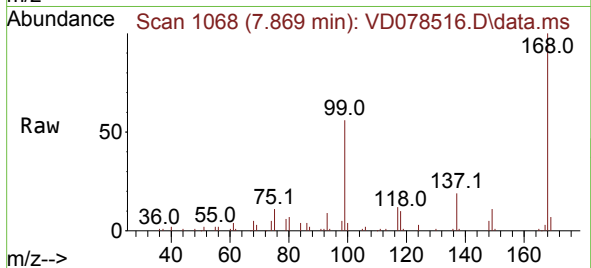
Acq: 22 Feb 2024 14:38

Instrument :

MSVOA\_D

ClientSampleId :

20241098-COMPOSITE-35N-N-4-03



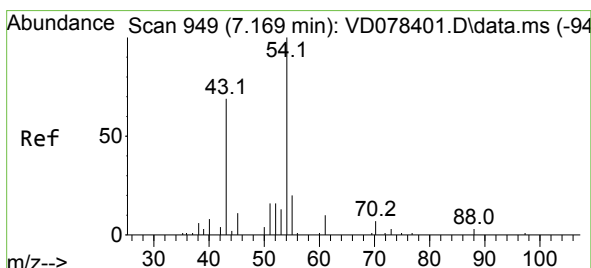
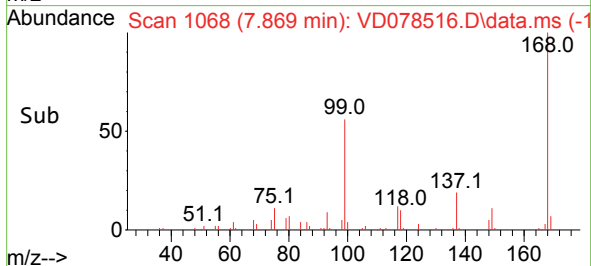
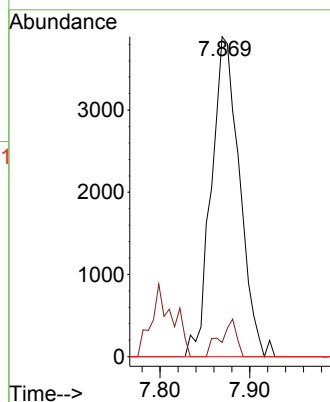
Tgt Ion: 75 Resp: 8497

Ion Ratio Lower Upper

75 100

110 6.7 19.9 59.6#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 7.673 ug/l

RT: 7.093 min Scan# 936

Delta R.T. -0.077 min

Lab File: VD078516.D

Acq: 22 Feb 2024 14:38

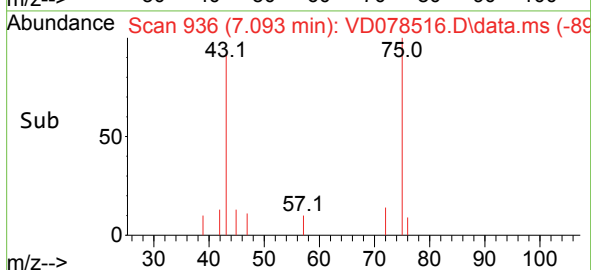
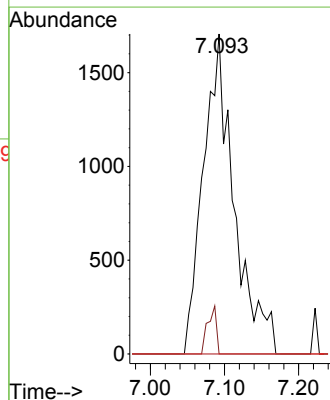
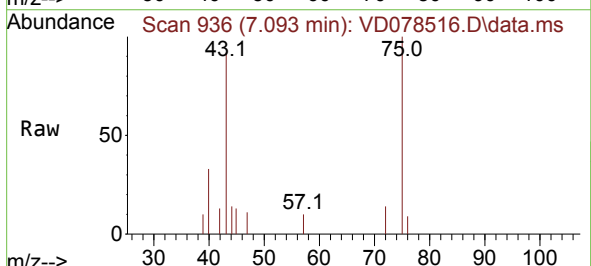
Tgt Ion: 43 Resp: 4937

Ion Ratio Lower Upper

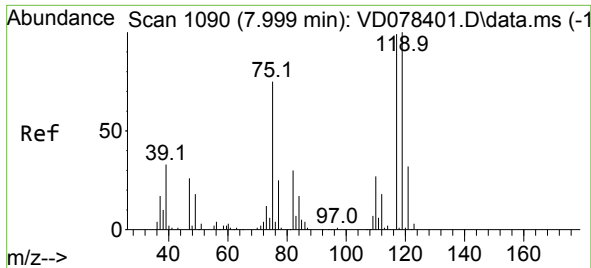
43 100

61 4.2 14.9 22.3#

70 0.0 10.0 15.0#

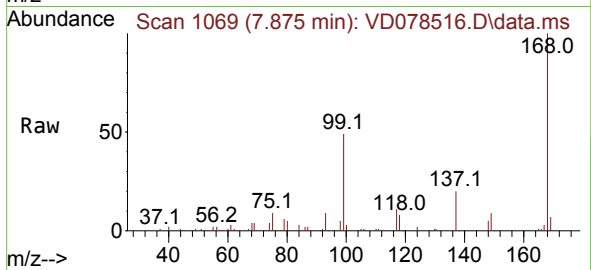




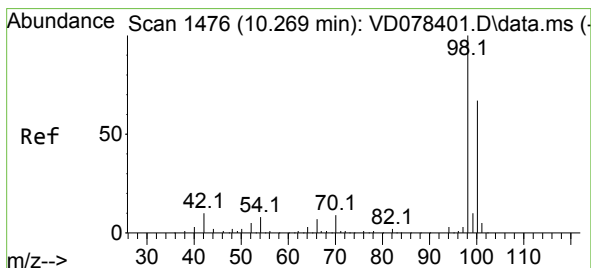
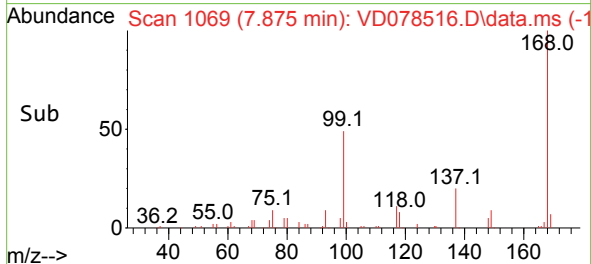
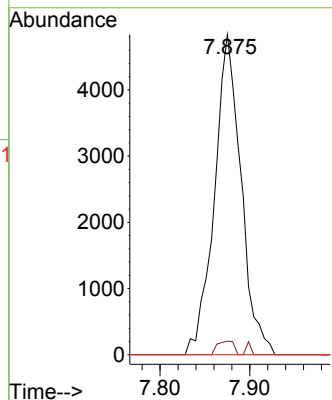


#38  
Carbon Tetrachloride  
Concen: 5.480 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.124 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

Instrument : MSVOA\_D  
ClientSampleId : 20241098-COMPOSITE-35N-N-4-03

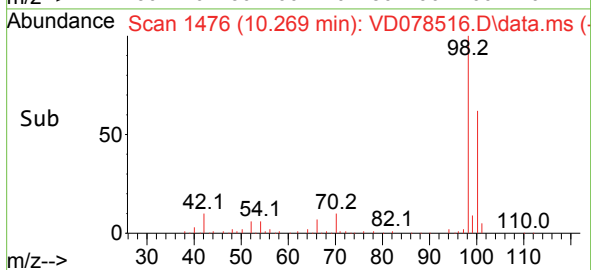
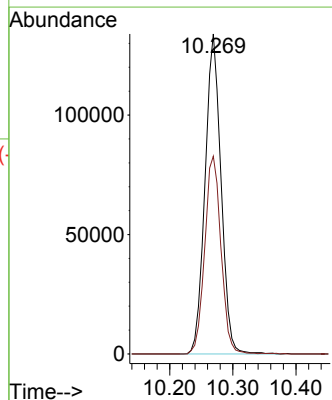
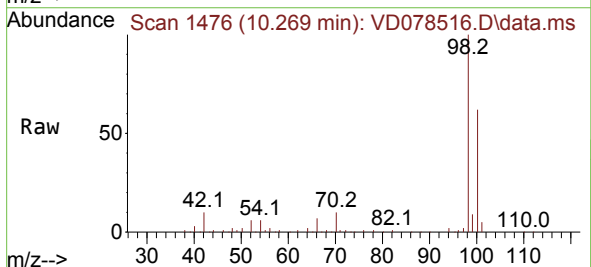


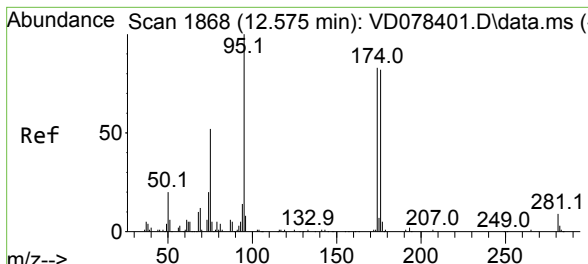
Tgt Ion:117 Resp: 9961  
Ion Ratio Lower Upper  
117 100  
119 4.2 78.0 117.0#  
121 0.0 24.2 36.2#



#50  
Toluene-d8  
Concen: 49.828 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

Tgt Ion: 98 Resp: 235509  
Ion Ratio Lower Upper  
98 100  
100 62.8 50.3 75.5

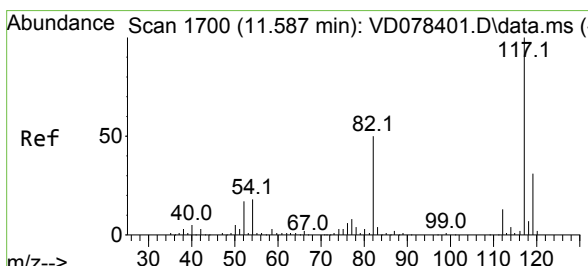
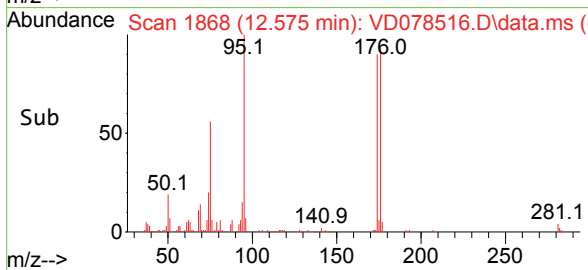
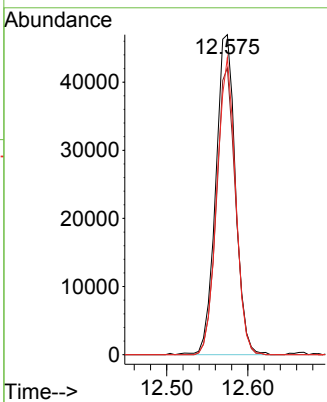
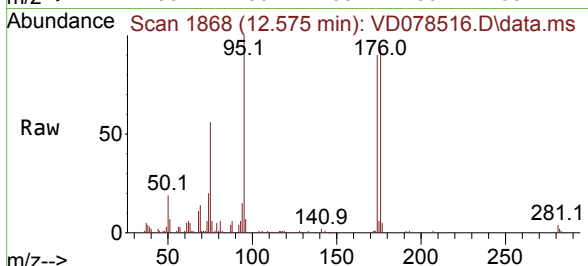




#62  
 4-Bromofluorobenzene  
 Concen: 57.631 ug/l  
 RT: 12.575 min Scan# 1699  
 Delta R.T. -0.000 min  
 Lab File: VD078516.D  
 Acq: 22 Feb 2024 14:38

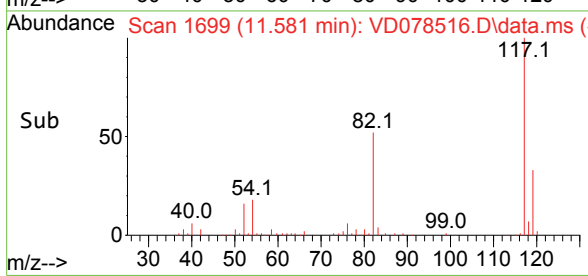
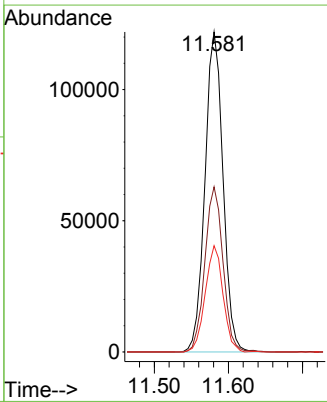
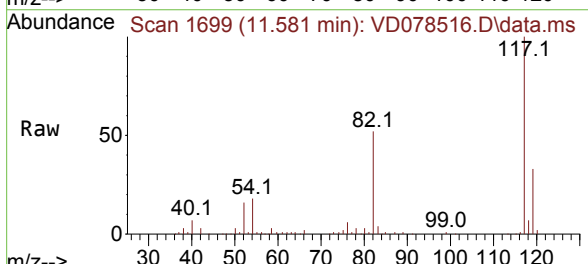
Instrument : MSVOA\_D  
 ClientSampleId : 20241098-COMPOSITE-35N-N-4-03

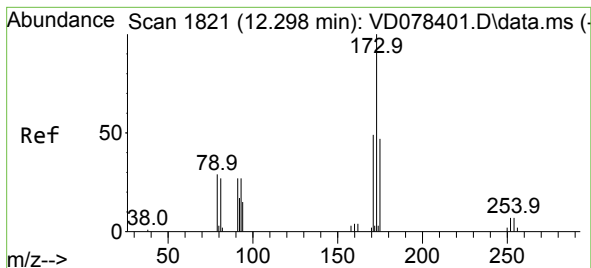
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 79267 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 86.7  | 0.0   | 201.8 |
| 176      | 88.1  | 0.0   | 191.8 |



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.581 min Scan# 1699  
 Delta R.T. -0.006 min  
 Lab File: VD078516.D  
 Acq: 22 Feb 2024 14:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 206199 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 51.6  | 38.3  | 57.5   |
| 119      | 33.2  | 25.0  | 37.4   |





#71

Bromoform

Concen: 1.060 ug/l

RT: 12.569 min Scan# 11

Delta R.T. 0.271 min

Lab File: VD078516.D

Acq: 22 Feb 2024 14:38

Instrument :

MSVOA\_D

ClientSampleId :

20241098-COMPOSITE-35N-N-4-03

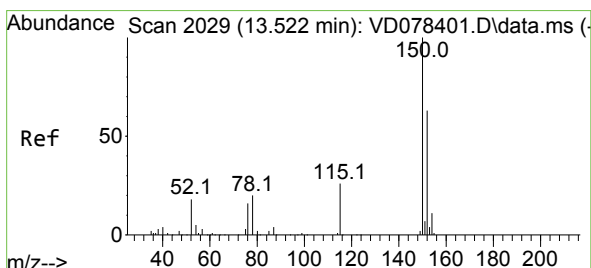
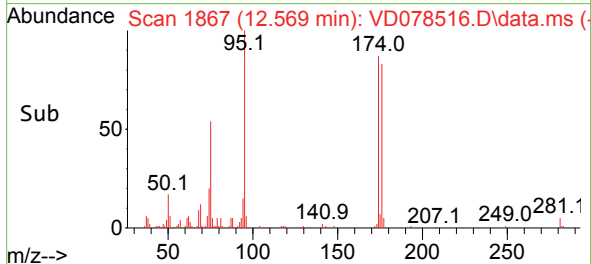
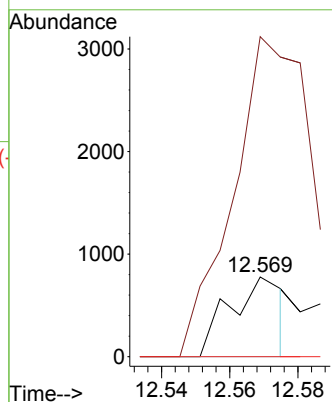
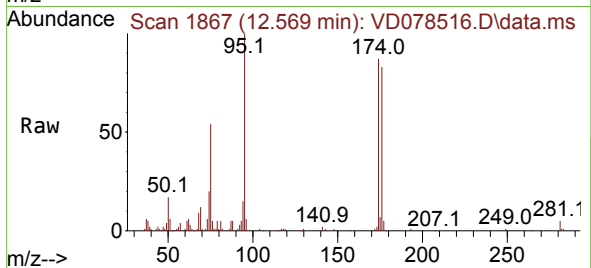
Tgt Ion:173 Resp: 850

Ion Ratio Lower Upper

173 100

175 397.2 24.6 73.8#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. -0.006 min

Lab File: VD078516.D

Acq: 22 Feb 2024 14:38

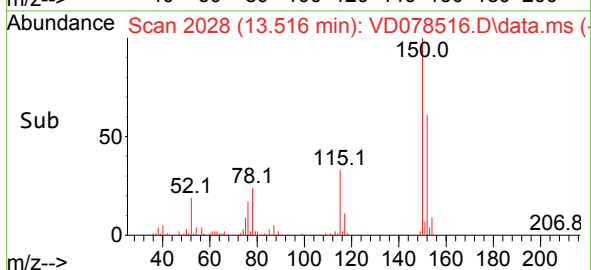
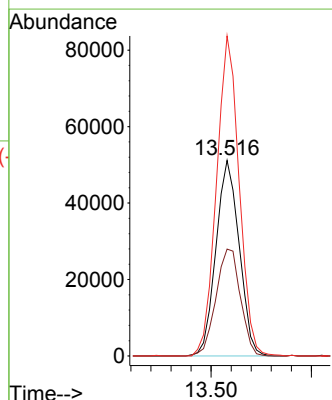
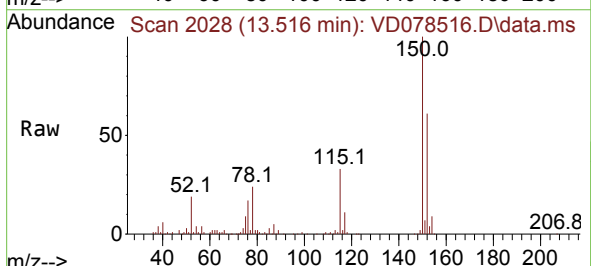
Tgt Ion:152 Resp: 82293

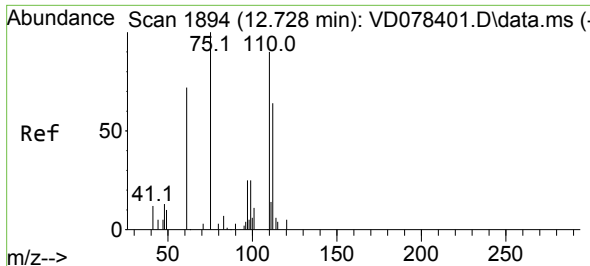
Ion Ratio Lower Upper

152 100

115 57.5 27.1 81.3

150 159.2 0.0 353.6

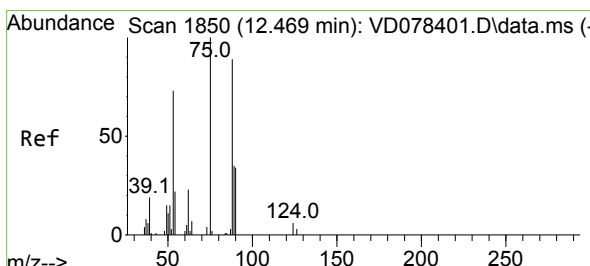
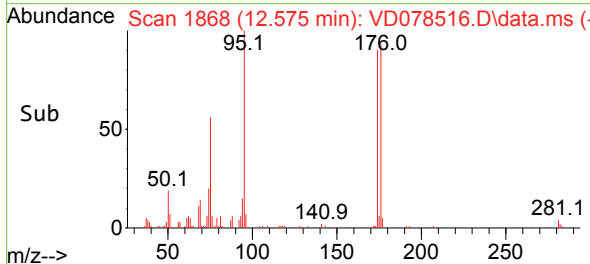
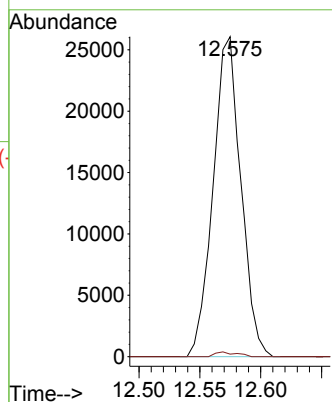
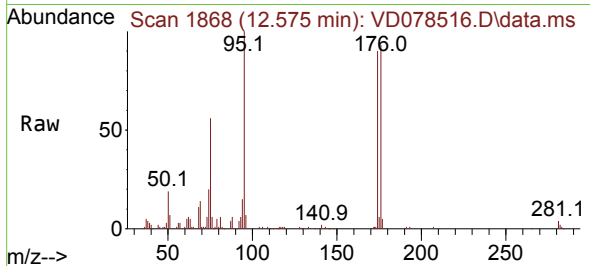




#76  
1,2,3-Trichloropropane  
Concen: 59.162 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.153 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

Instrument : MSVOA\_D  
ClientSampleId : 20241098-COMPOSITE-35N-N-4-03

Tgt Ion: 75 Resp: 41333  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 122.821 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD078516.D  
Acq: 22 Feb 2024 14:38

Tgt Ion: 75 Resp: 41333  
Ion Ratio Lower Upper  
75 100  
53 0.2 63.0 94.4#  
89 0.0 37.9 56.9#

