

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022324\  
 Data File : VD078538.D  
 Acq On : 23 Feb 2024 16:14  
 Operator : RP/MD  
 Sample : P1538-14RE  
 Misc : 5.09G/6ml/MSVOA\_D/SOIL/B  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 20241107-AMENDED-COMPOSITE-35N-N-4-06RE

Quant Time: Feb 24 00:24:27 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

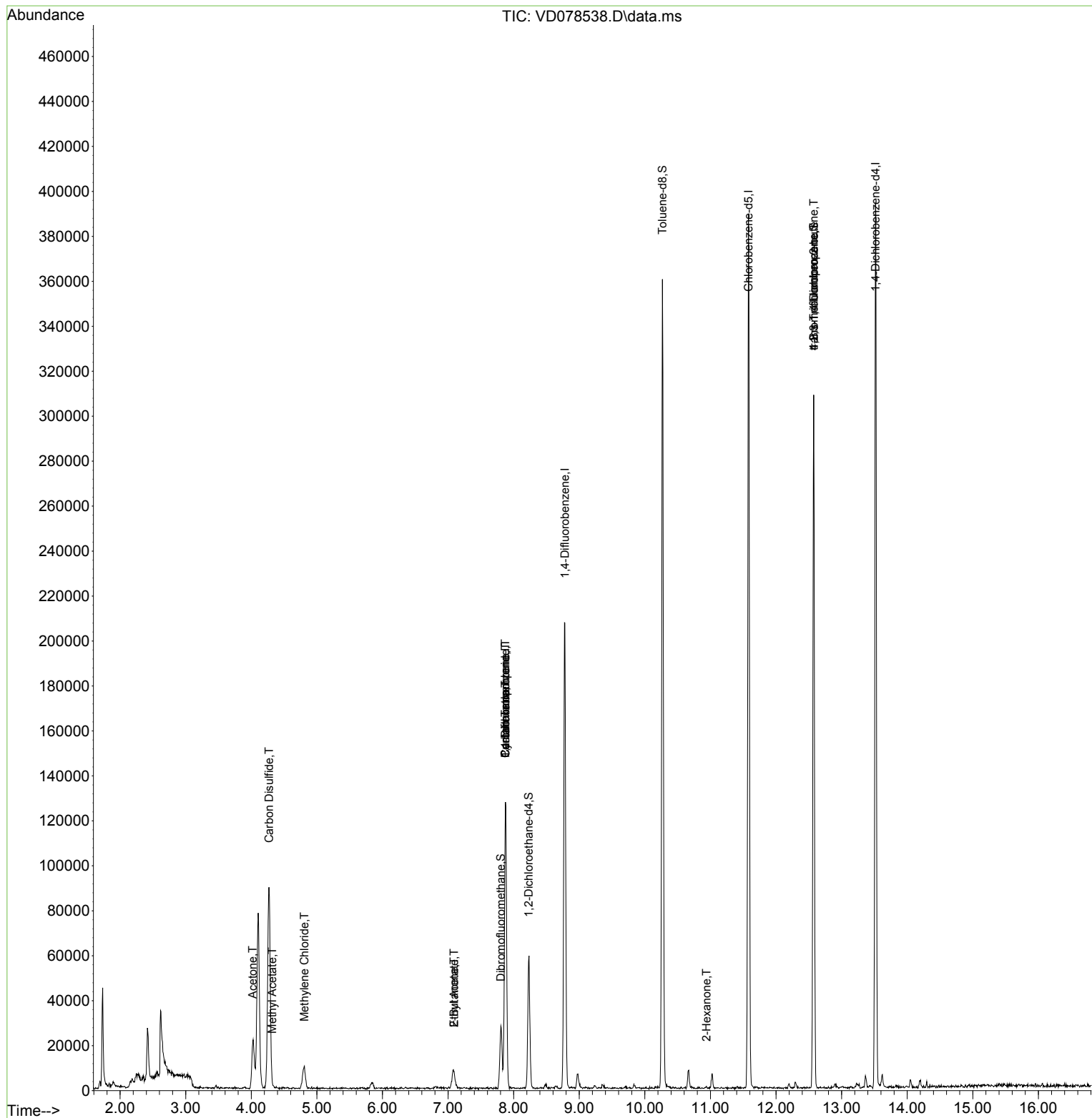
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.875          | 168  | 99448      | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781          | 114  | 191027     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581         | 117  | 233814     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516         | 152  | 107353     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.228          | 65   | 42895      | 39.892    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 79.780%   |        |          |
| 35) Dibromofluoromethane      | 7.804          | 113  | 20550      | 16.935    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 33.880%#  |        |          |
| 50) Toluene-d8                | 10.269         | 98   | 245725     | 50.623    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = | 101.240%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.575         | 95   | 90509      | 64.074    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = | 128.140%  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 11) Tert butyl alcohol        | 5.063          | 59   | 80         | Below Cal | #      | 73       |
| 16) Acetone                   | 4.022          | 43   | 37969      | 174.538   | ug/l # | 84       |
| 17) Carbon Disulfide          | 4.269          | 76   | 189527     | 51.955    | ug/l   | 98       |
| 18) Methyl Acetate            | 4.316          | 43   | 62         | 4.014     | ug/l # | 42       |
| 20) Methylene Chloride        | 4.810          | 84   | 7736       | 3.476     | ug/l # | 83       |
| 23) Vinyl Acetate             | 6.128          | 43   | 65         | Below Cal | #      | 63       |
| 25) 2-Butanone                | 7.093          | 43   | 8329       | 15.869    | ug/l # | 80       |
| 31) Cyclohexane               | 7.875          | 56   | 2131       | 1.172     | ug/l # | 11       |
| 36) 1,1-Dichloropropene       | 7.875          | 75   | 8362       | 4.436     | ug/l # | 47       |
| 37) Ethyl Acetate             | 7.093          | 43   | 8329       | 12.604    | ug/l # | 62       |
| 38) Carbon Tetrachloride      | 7.875          | 117  | 9569       | 5.126     | ug/l # | 15       |
| 59) 2-Hexanone                | 10.939         | 43   | 508        | 1.041     | ug/l   | 74       |
| 76) 1,2,3-Trichloropropane    | 12.575         | 75   | 48392      | 53.097    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575         | 75   | 48392      | 110.230   | ug/l # | 17       |
| -----                         |                |      |            |           |        |          |

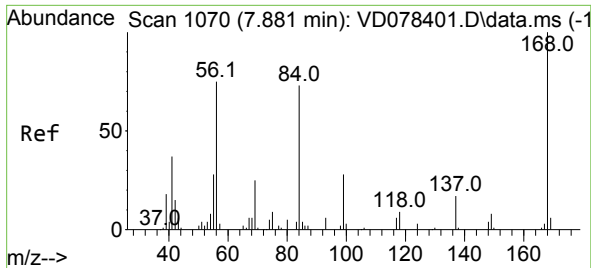
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022324\  
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MSVOA\_D  
ClientSampleId :  
20241107-AMENDED-COMPOSITE-35N-N-4-06RE

Quant Time: Feb 24 00:24:27 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

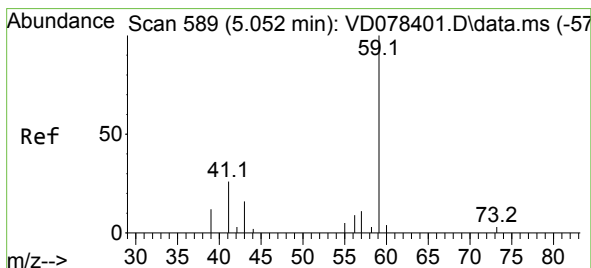
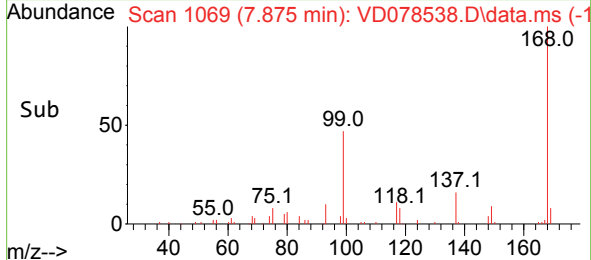
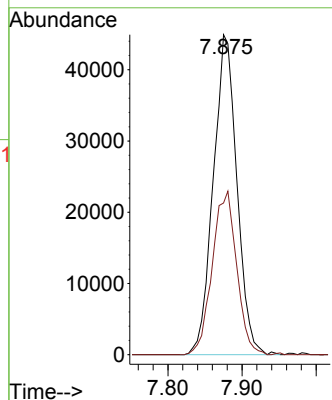
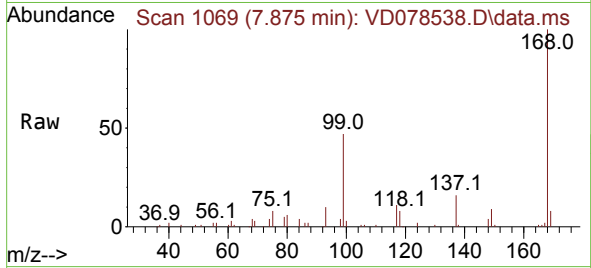




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.006 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

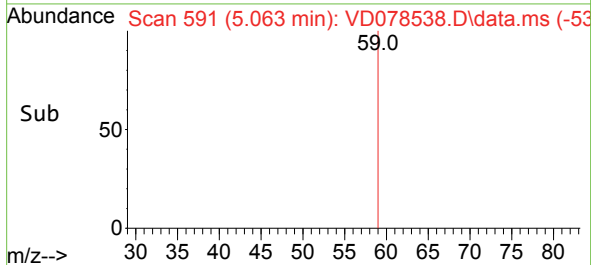
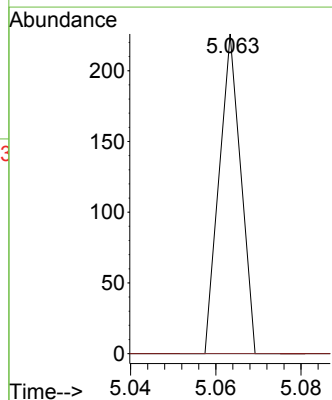
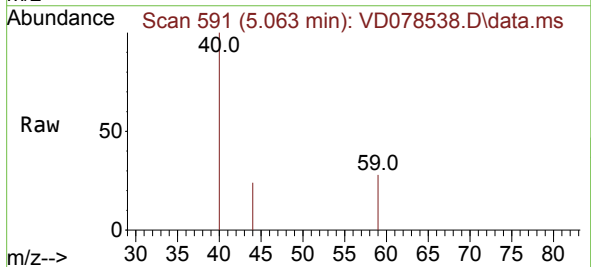
Instrument : MSVOA\_D  
ClientSampleId : 20241107-AMENDED-COMPOSITE-35N-N-4-06RE

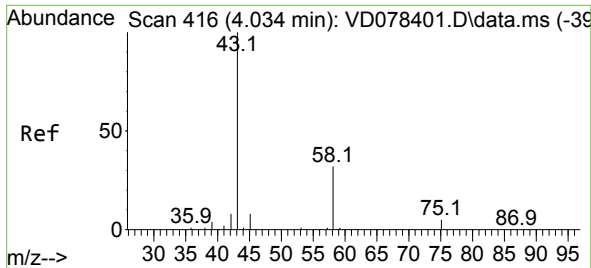
Tgt Ion:168 Resp: 99448  
Ion Ratio Lower Upper  
168 100  
99 47.4 36.7 55.1



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.063 min Scan# 591  
Delta R.T. 0.011 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

Tgt Ion: 59 Resp: 80  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

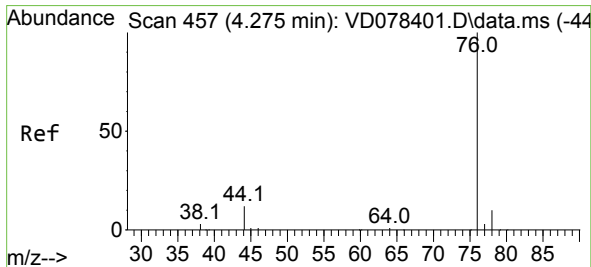
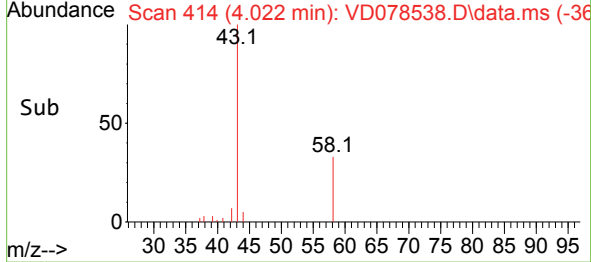
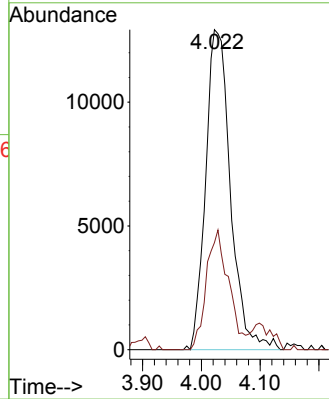
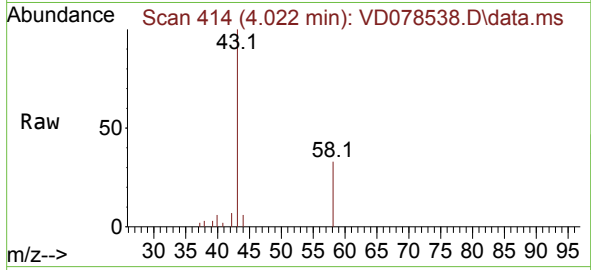




#16  
Acetone  
Concen: 174.538 ug/l  
RT: 4.022 min Scan# 416  
Delta R.T. -0.012 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

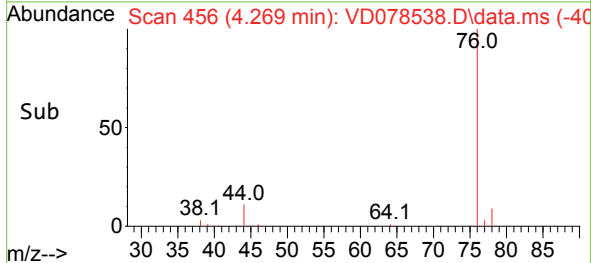
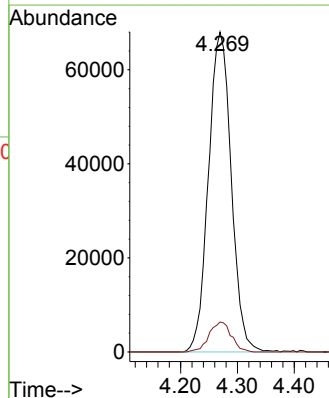
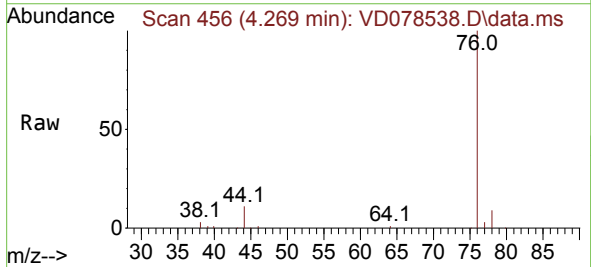
Instrument : MSVOA\_D  
ClientSampleId : 20241107-AMENDED-COMPOSITE-35N-N-4-06RE

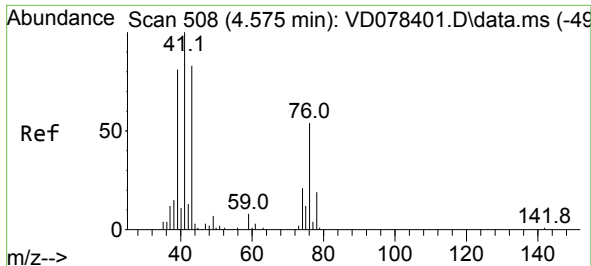
Tgt Ion: 43 Resp: 37969  
Ion Ratio Lower Upper  
43 100  
58 33.4 34.7 52.1#



#17  
Carbon Disulfide  
Concen: 51.955 ug/l  
RT: 4.269 min Scan# 456  
Delta R.T. -0.006 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

Tgt Ion: 76 Resp: 189527  
Ion Ratio Lower Upper  
76 100  
78 9.3 6.8 10.2

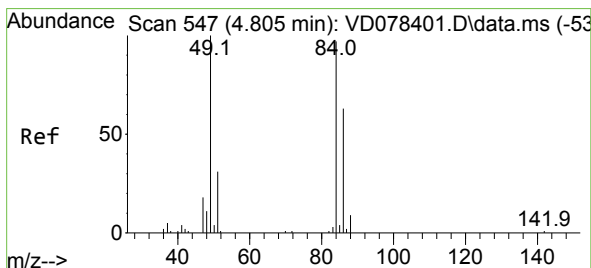
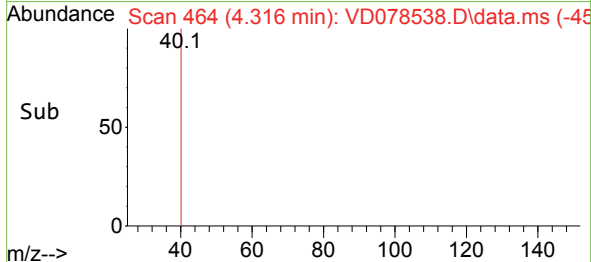
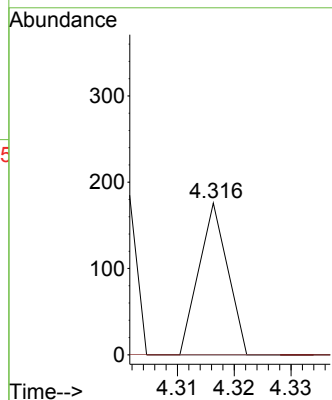
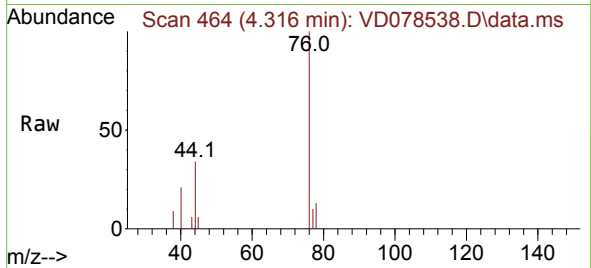




#18  
Methyl Acetate  
Concen: 4.014 ug/l  
RT: 4.316 min Scan# 41  
Delta R.T. -0.259 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

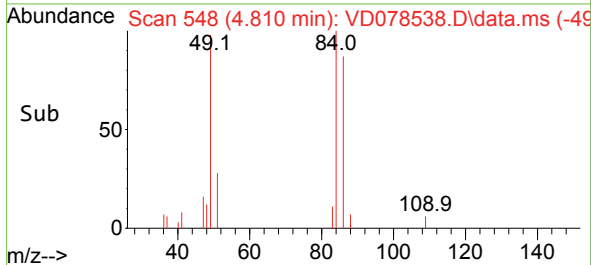
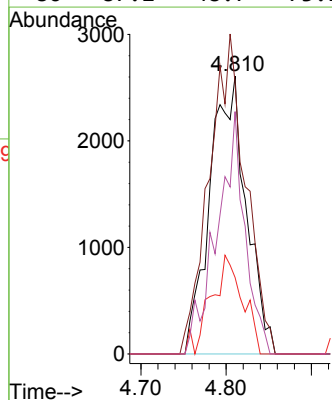
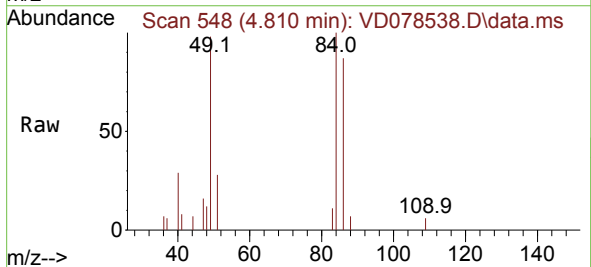
Instrument :  
MSVOA\_D  
ClientSampleId :  
20241107-AMENDED-COMPOSITE-35N-N-4-06RE

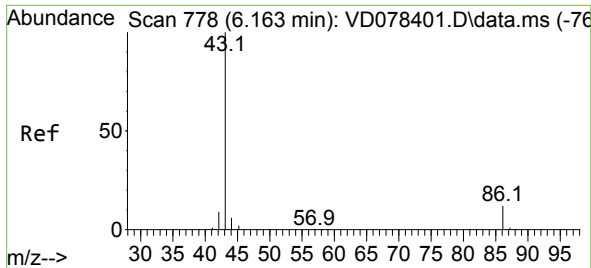
Tgt Ion: 43 Resp: 62  
Ion Ratio Lower Upper  
43 100  
74 0.0 26.4 39.6#



#20  
Methylene Chloride  
Concen: 3.476 ug/l  
RT: 4.810 min Scan# 548  
Delta R.T. 0.005 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

Tgt Ion: 84 Resp: 7736  
Ion Ratio Lower Upper  
84 100  
49 97.6 71.4 107.2  
51 27.5 24.5 36.7  
86 87.2 48.7 73.1#

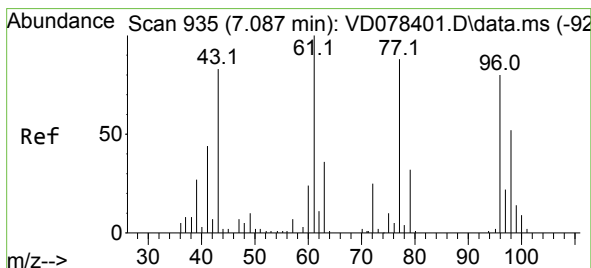
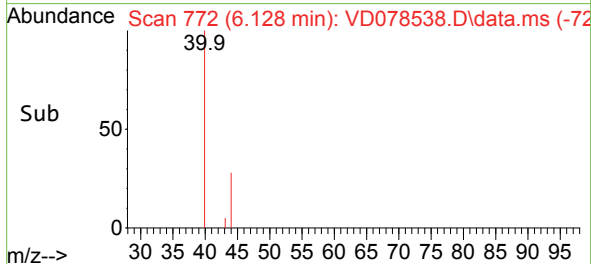
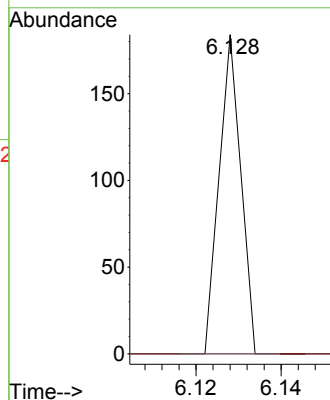
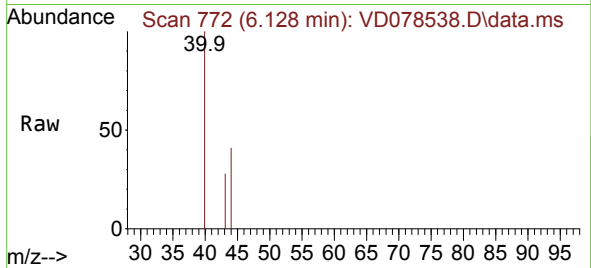




#23  
 Vinyl Acetate  
 Concen: Below Cal  
 RT: 6.128 min Scan# 71  
 Delta R.T. -0.035 min  
 Lab File: VD078538.D  
 Acq: 23 Feb 2024 16:14

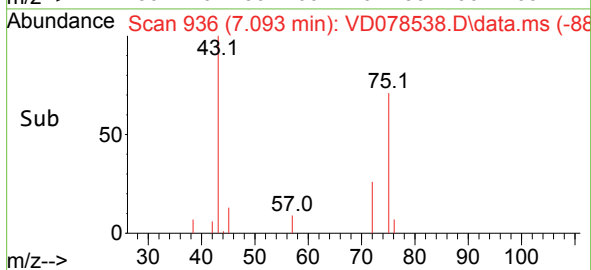
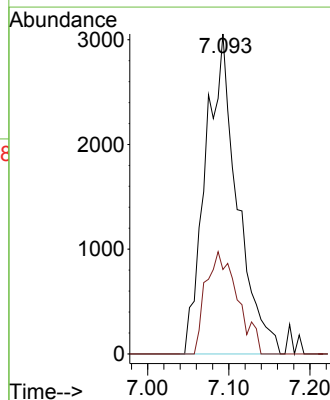
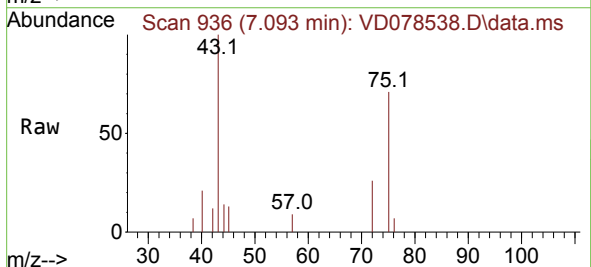
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 20241107-AMENDED-COMPOSITE-35N-N-4-06RE

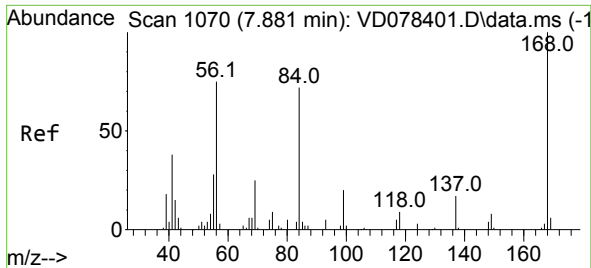
Tgt Ion: 43 Resp: 65  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 12.5 18.7#



#25  
 2-Butanone  
 Concen: 15.869 ug/l  
 RT: 7.093 min Scan# 936  
 Delta R.T. 0.006 min  
 Lab File: VD078538.D  
 Acq: 23 Feb 2024 16:14

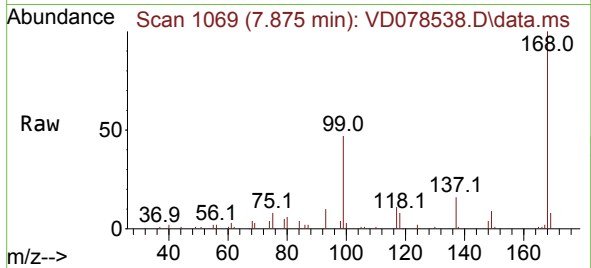
Tgt Ion: 43 Resp: 8329  
 Ion Ratio Lower Upper  
 43 100  
 72 26.4 30.7 46.1#



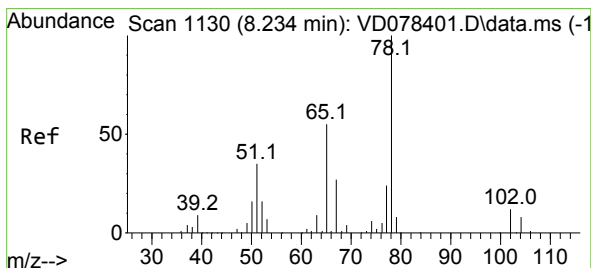
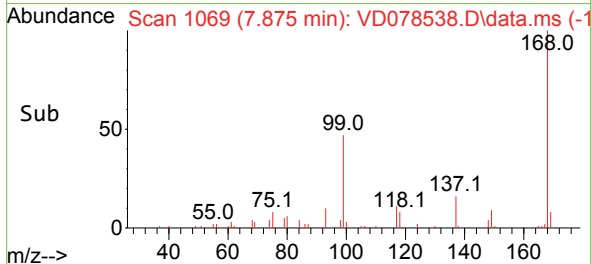
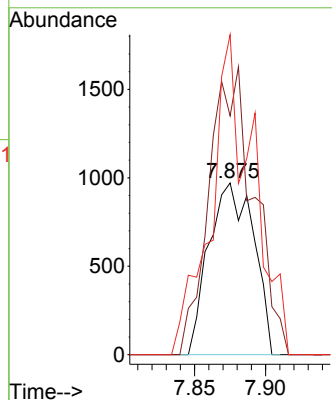


#31  
Cyclohexane  
Concen: 1.172 ug/l  
RT: 7.875 min Scan# 1109  
Delta R.T. -0.006 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

Instrument : MSVOA\_D  
ClientSampleId : 20241107-AMENDED-COMPOSITE-35N-N-4-06RE

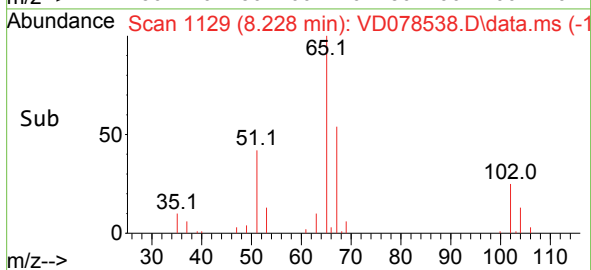
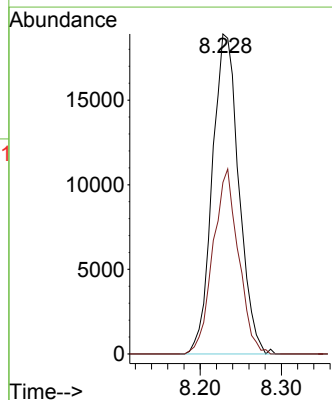
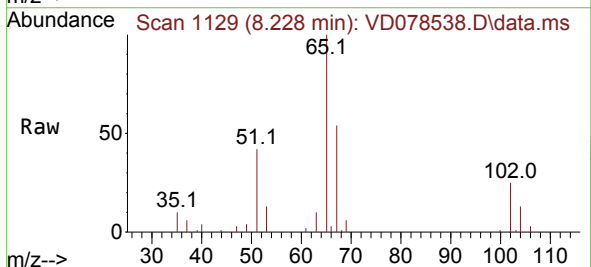


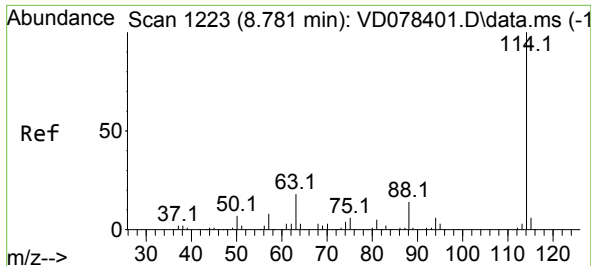
Tgt Ion: 56 Resp: 2131  
Ion Ratio Lower Upper  
56 100  
69 139.0 28.6 43.0#  
84 167.0 84.8 127.2#



#33  
1,2-Dichloroethane-d4  
Concen: 39.892 ug/l  
RT: 8.228 min Scan# 1129  
Delta R.T. -0.006 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

Tgt Ion: 65 Resp: 42895  
Ion Ratio Lower Upper  
65 100  
67 55.6 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD078538.D

Acq: 23 Feb 2024 16:14

Instrument :

MSVOA\_D

ClientSampleId :

20241107-AMENDED-COMPOSITE-35N-N-4-06RE

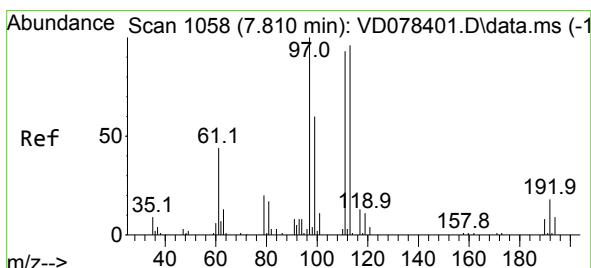
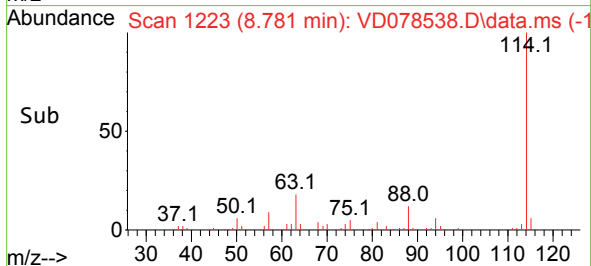
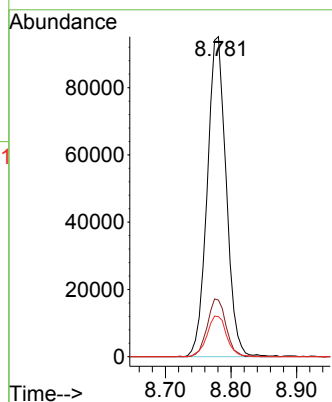
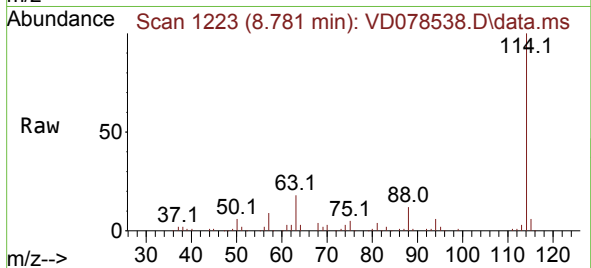
Tgt Ion:114 Resp: 191027

Ion Ratio Lower Upper

114 100

63 17.7 0.0 33.4

88 12.5 0.0 26.2



#35

Dibromofluoromethane

Concen: 16.935 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VD078538.D

Acq: 23 Feb 2024 16:14

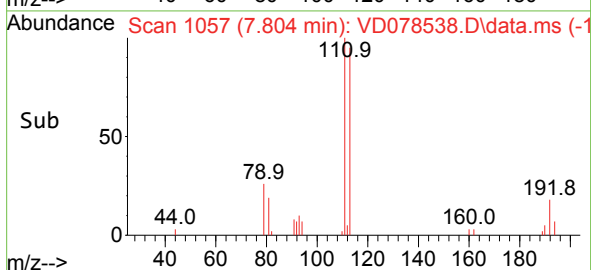
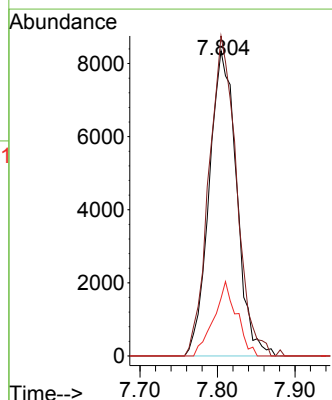
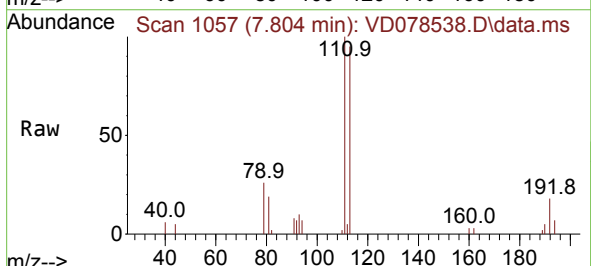
Tgt Ion:113 Resp: 20550

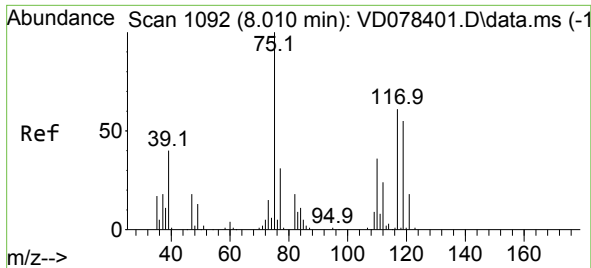
Ion Ratio Lower Upper

113 100

111 105.8 84.7 127.1

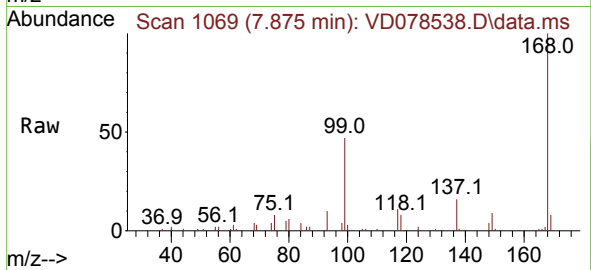
192 20.3 16.8 25.2



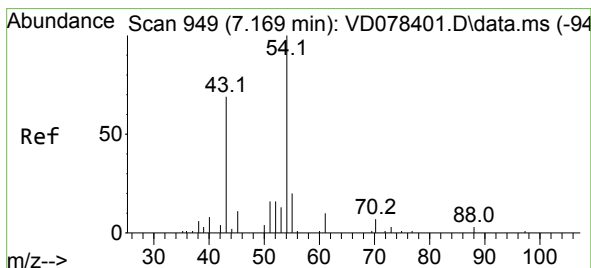
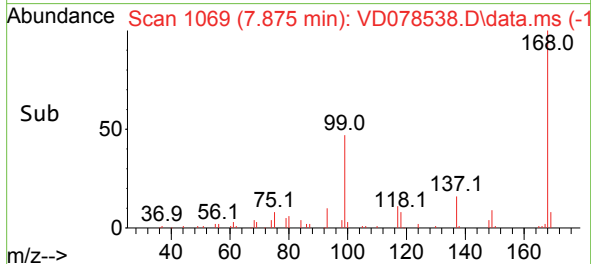
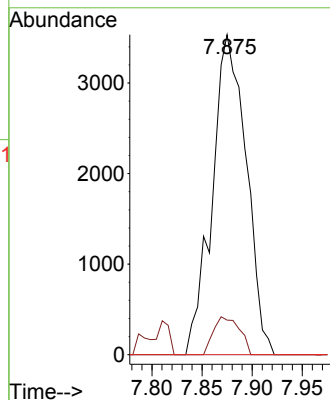


#36  
1,1-Dichloropropene  
Concen: 4.436 ug/l  
RT: 7.875 min Scan# 1092  
Delta R.T. -0.135 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

Instrument : MSVOA\_D  
ClientSampleId : 20241107-AMENDED-COMPOSITE-35N-N-4-06RE

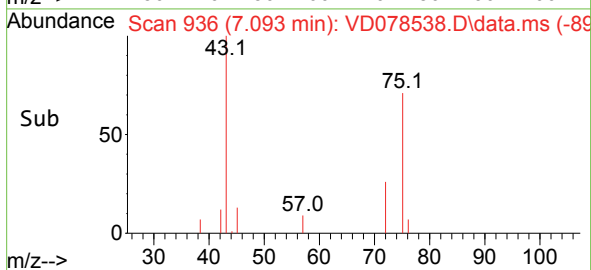
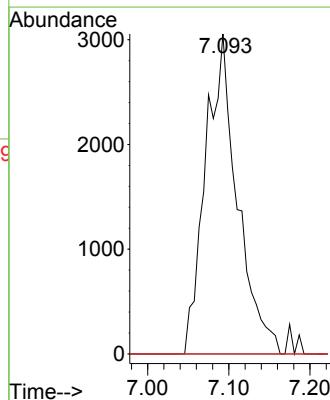
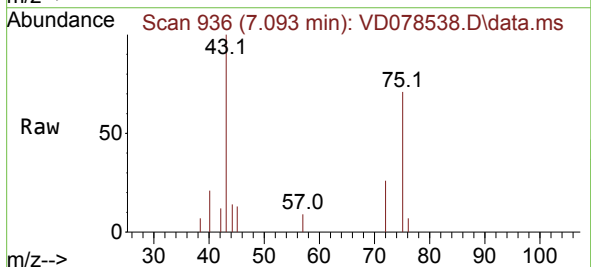


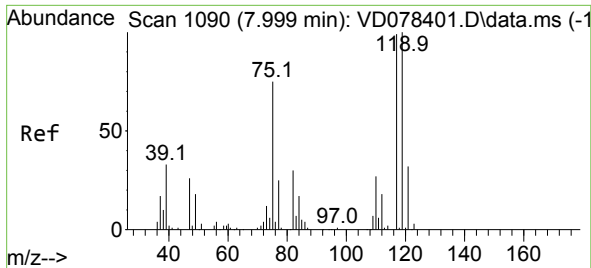
Tgt Ion: 75 Resp: 8362  
Ion Ratio Lower Upper  
75 100  
110 9.0 19.9 59.6#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 12.604 ug/l  
RT: 7.093 min Scan# 936  
Delta R.T. -0.077 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

Tgt Ion: 43 Resp: 8329  
Ion Ratio Lower Upper  
43 100  
61 0.0 14.9 22.3#  
70 0.0 10.0 15.0#

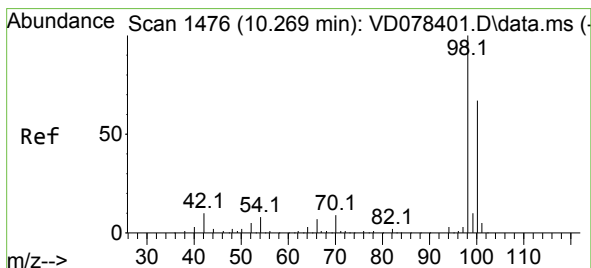
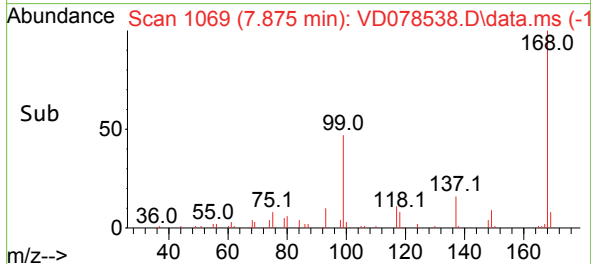
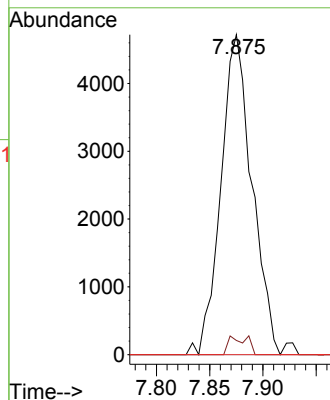
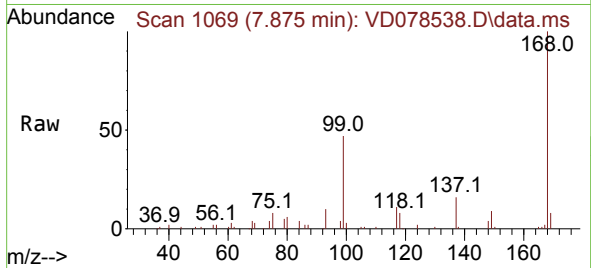




#38  
Carbon Tetrachloride  
Concen: 5.126 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.124 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

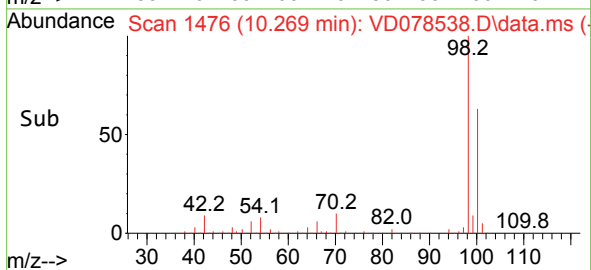
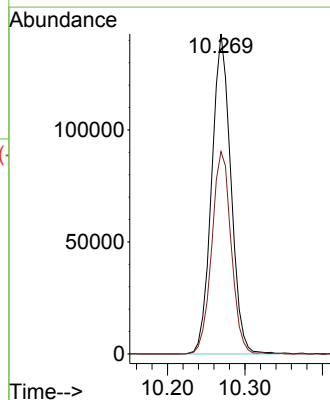
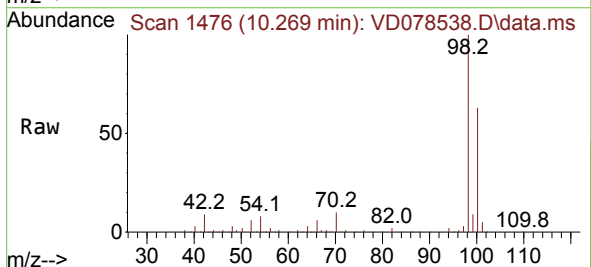
Instrument : MSVOA\_D  
ClientSampleId : 20241107-AMENDED-COMPOSITE-35N-N-4-06RE

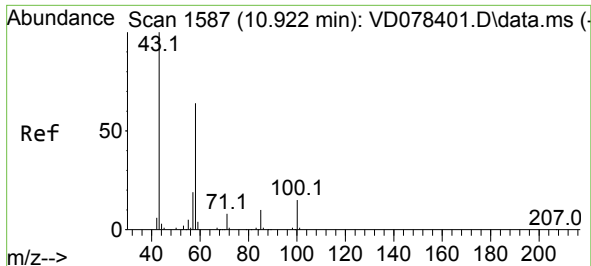
Tgt Ion:117 Resp: 9569  
Ion Ratio Lower Upper  
117 100  
119 4.4 78.0 117.0#  
121 0.0 24.2 36.2#



#50  
Toluene-d8  
Concen: 50.623 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

Tgt Ion: 98 Resp: 245725  
Ion Ratio Lower Upper  
98 100  
100 63.9 50.3 75.5

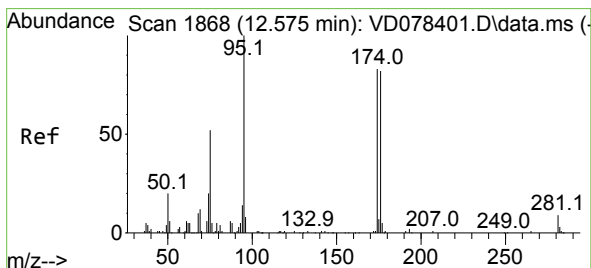
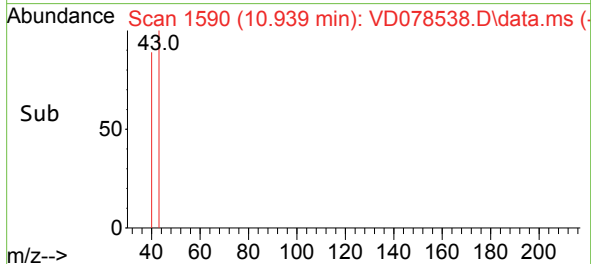
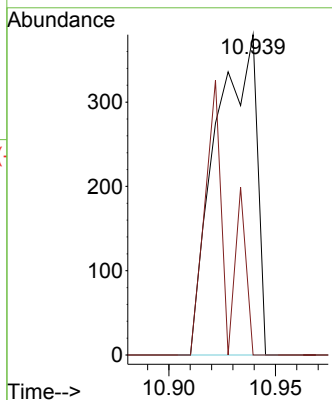
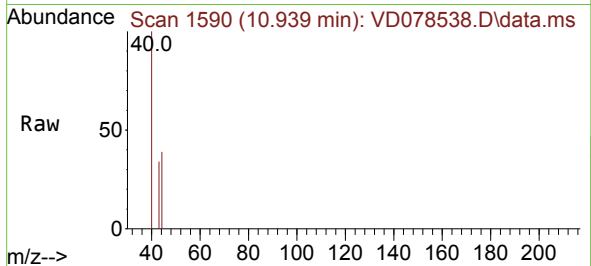




#59  
2-Hexanone  
Concen: 1.041 ug/l  
RT: 10.939 min Scan# 11  
Delta R.T. 0.017 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

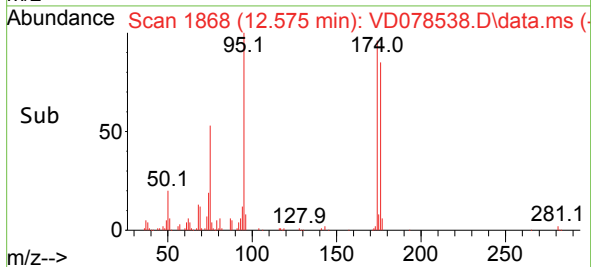
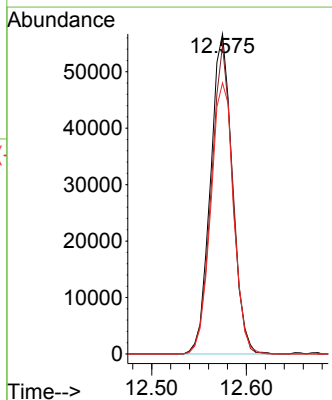
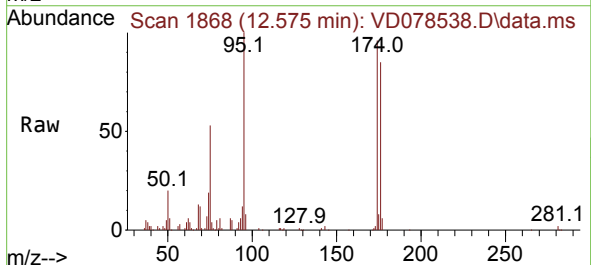
Instrument :  
MSVOA\_D  
ClientSampleId :  
20241107-AMENDED-COMPOSITE-35N-N-4-06RE

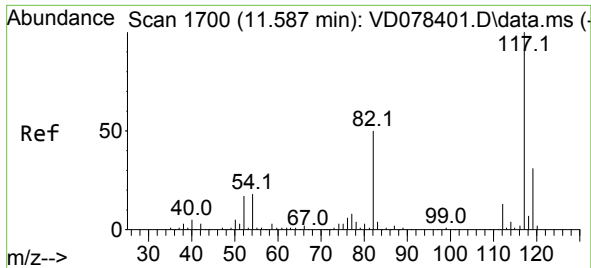
Tgt Ion: 43 Resp: 508  
Ion Ratio Lower Upper  
43 100  
58 47.2 34.1 102.2



#62  
4-Bromofluorobenzene  
Concen: 64.074 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

Tgt Ion: 95 Resp: 90509  
Ion Ratio Lower Upper  
95 100  
174 94.7 0.0 201.8  
176 88.4 0.0 191.8

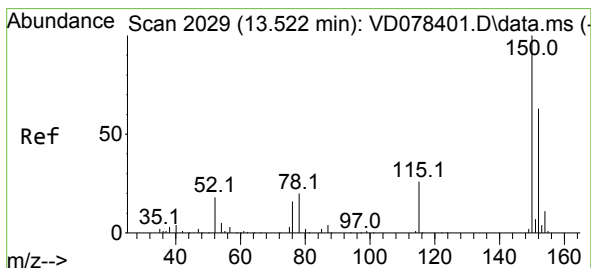
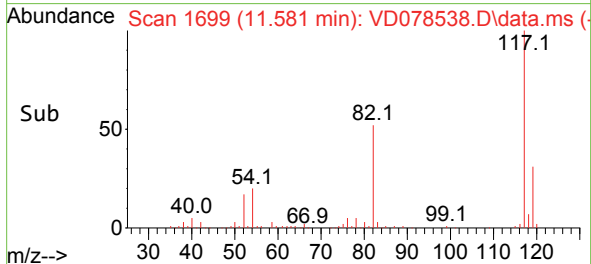
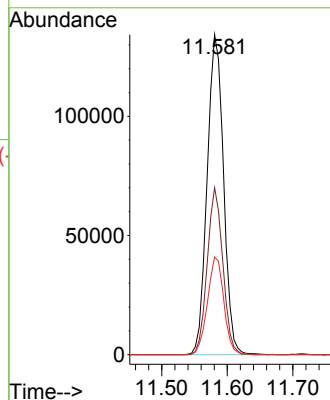
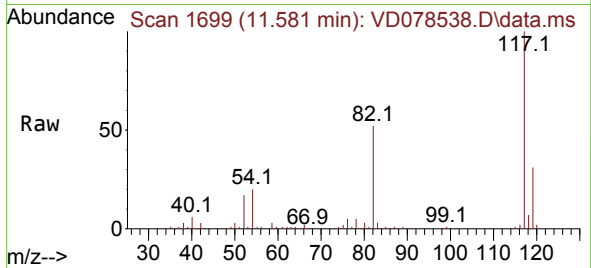




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

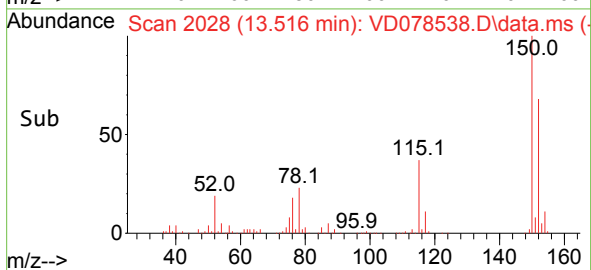
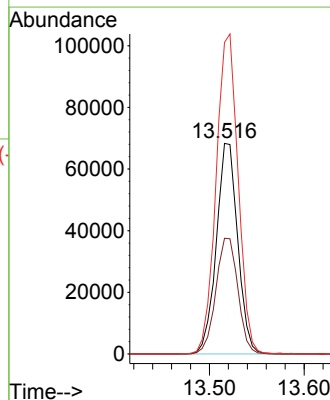
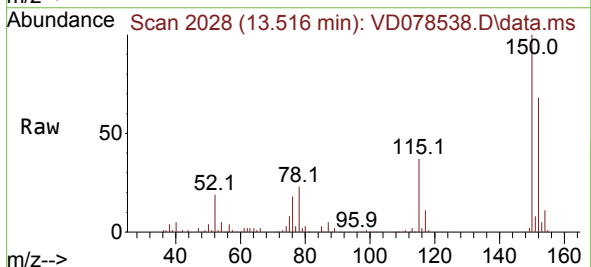
Instrument :  
MSVOA\_D  
ClientSampleId :  
20241107-AMENDED-COMPOSITE-35N-N-4-06RE

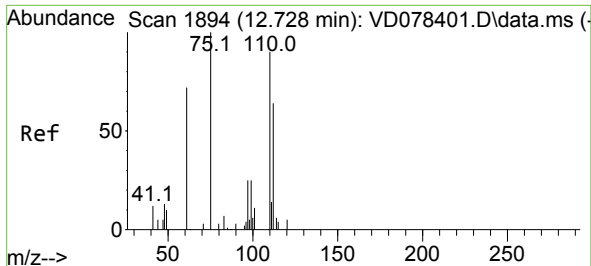
Tgt Ion:117 Resp: 233814  
Ion Ratio Lower Upper  
117 100  
82 52.2 38.3 57.5  
119 30.5 25.0 37.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. -0.006 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

Tgt Ion:152 Resp: 107353  
Ion Ratio Lower Upper  
152 100  
115 56.6 27.1 81.3  
150 156.4 0.0 353.6

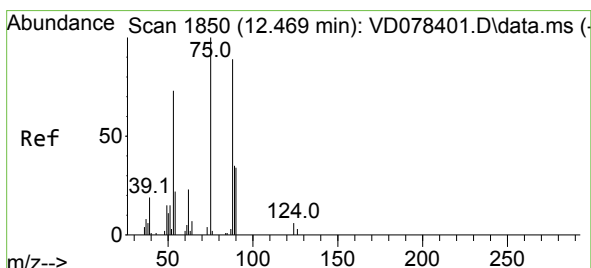
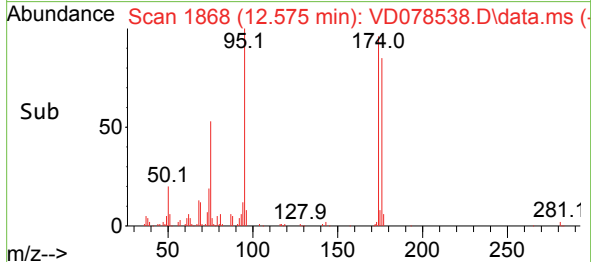
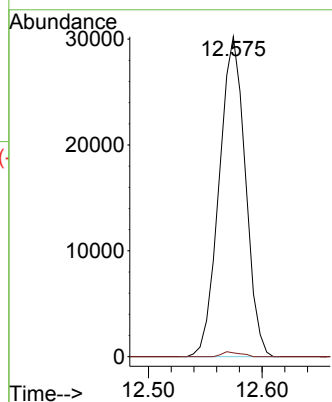
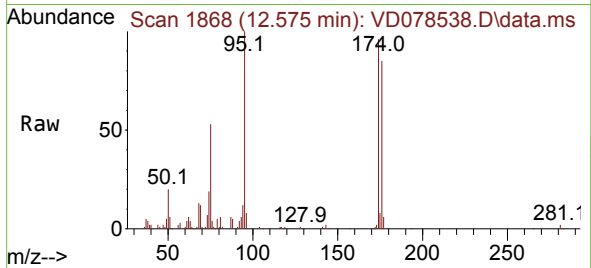




#76  
1,2,3-Trichloropropane  
Concen: 53.097 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.153 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

Instrument : MSVOA\_D  
ClientSampleId : 20241107-AMENDED-COMPOSITE-35N-N-4-06RE

Tgt Ion: 75 Resp: 48392  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 110.230 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD078538.D  
Acq: 23 Feb 2024 16:14

Tgt Ion: 75 Resp: 48392  
Ion Ratio Lower Upper  
75 100  
53 0.0 63.0 94.4#  
89 0.0 37.9 56.9#

