

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060923\  
 Data File : VN078145.D  
 Acq On : 09 Jun 2023 14:58  
 Operator : JC\MD  
 Sample : 03123-09  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-RW11-GW-798-800

Quant Time: Jun 09 23:08:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 2023  
 Response via : Initial Calibration

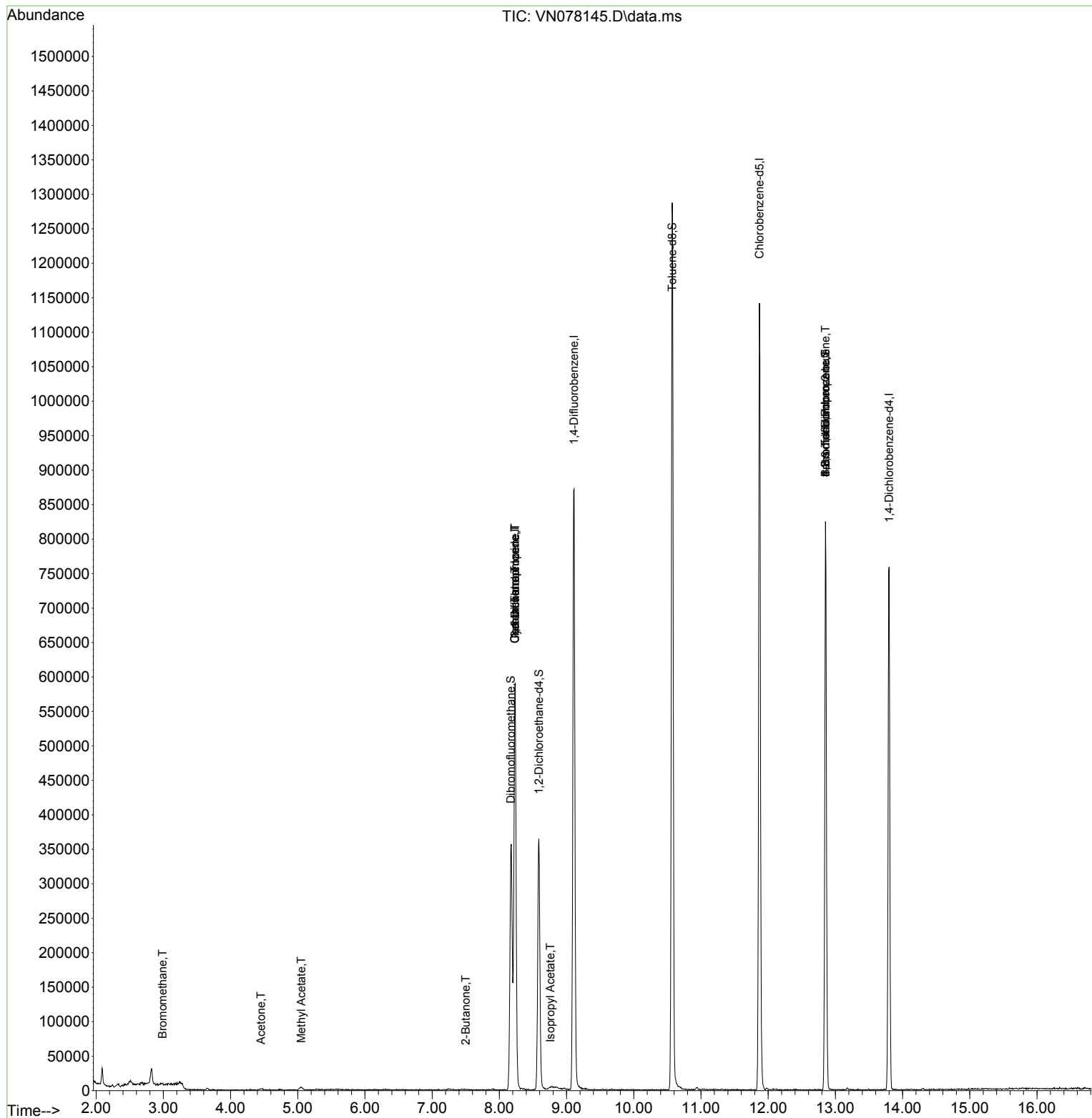
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.236  | 168   | 427742   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.112  | 114   | 792535   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 693642   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800 | 152   | 209778   | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.588  | 65    | 300814   | 52.746    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 105.500% |          |
| 35) Dibromofluoromethane      | 8.171  | 113   | 262190   | 52.322    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 104.640% |          |
| 50) Toluene-d8                | 10.571 | 98    | 952116   | 49.286    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 98.580%  |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 289456   | 48.198    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 96.400%  |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.377  | 50    | 1068     | Below Cal | #          | 42       |
| 5) Bromomethane               | 2.989  | 94    | 1443     | 0.302     | ug/l #     | 4        |
| 16) Acetone                   | 4.453  | 43    | 1764     | 1.075     | ug/l       | 97       |
| 18) Methyl Acetate            | 5.053  | 43    | 7803     | 1.032     | ug/l #     | 78       |
| 25) 2-Butanone                | 7.500  | 43    | 1672     | 0.662     | ug/l #     | 37       |
| 31) Cyclohexane               | 8.230  | 56    | 10803    | 1.477     | ug/l #     | 48       |
| 36) 1,1-Dichloropropene       | 8.236  | 75    | 37434    | 5.208     | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 48298    | 6.364     | ug/l #     | 15       |
| 43) Isopropyl Acetate         | 8.759  | 43    | 2830     | 0.264     | ug/l #     | 49       |
| 71) Bromoform                 | 12.853 | 173   | 2504     | 0.710     | ug/l #     | 1        |
| 75) 1,1,2,2-Tetrachloroethane | 12.865 | 83    | 402      | Below Cal | #          | 26       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 156666   | 31.591    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 156666   | 97.057    | ug/l #     | 15       |
| -----                         |        |       |          |           |            |          |

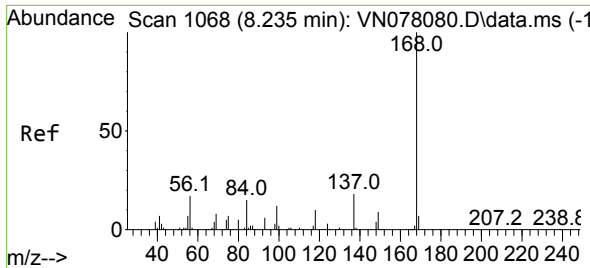
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060923\  
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Sample : 03123-09  
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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-798-800

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QLast Update : Wed Jun 07 05:05:00 2023  
Response via : Initial Calibration

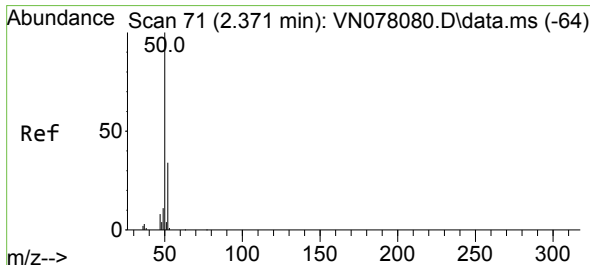
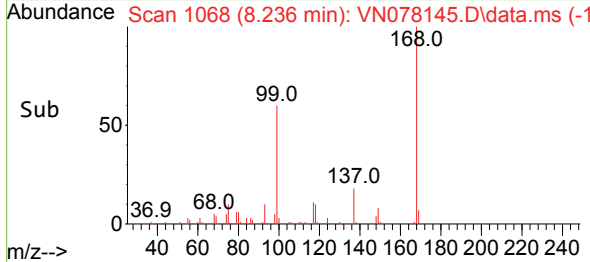
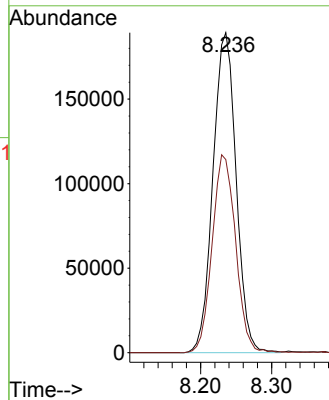
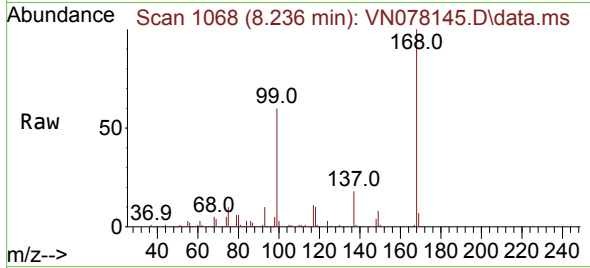




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.236 min Scan# 1068  
Delta R.T. 0.001 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

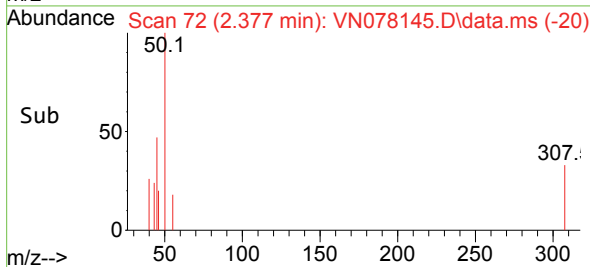
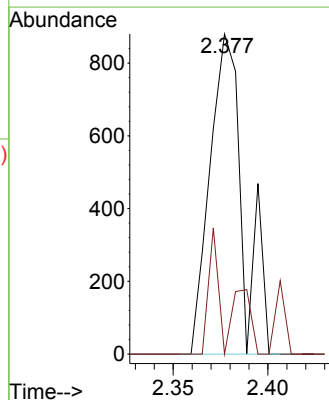
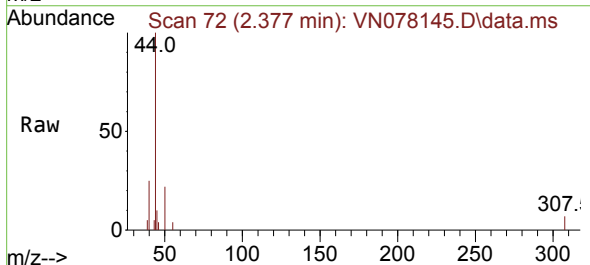
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-798-800

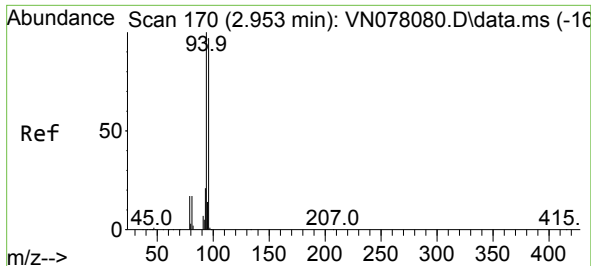
Tgt Ion:168 Resp: 427742  
Ion Ratio Lower Upper  
168 100  
99 60.4 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.377 min Scan# 72  
Delta R.T. 0.006 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

Tgt Ion: 50 Resp: 1068  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.5 39.7#

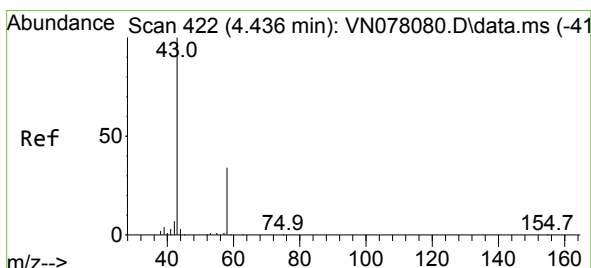
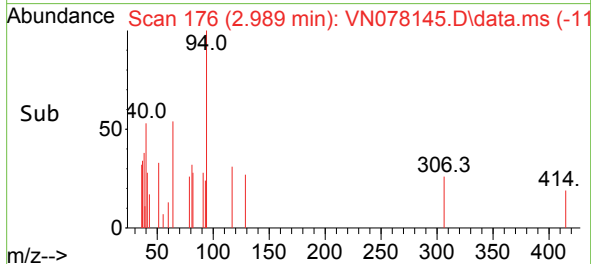
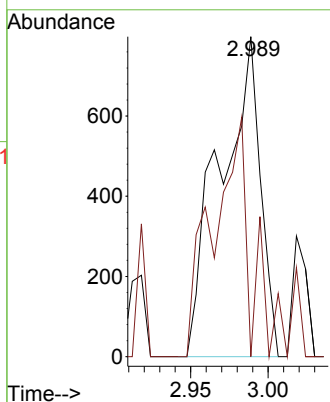
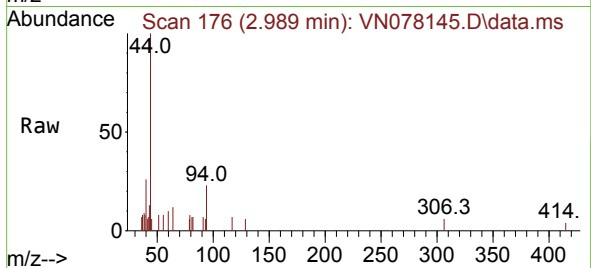




#5  
Bromomethane  
Concen: 0.302 ug/l  
RT: 2.989 min Scan# 11  
Delta R.T. 0.035 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

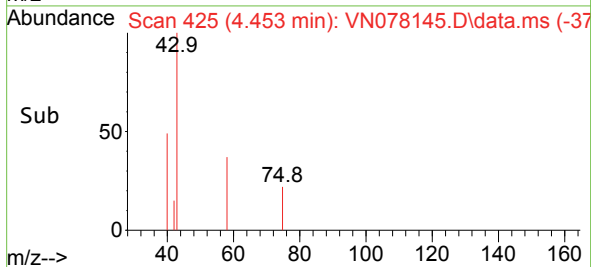
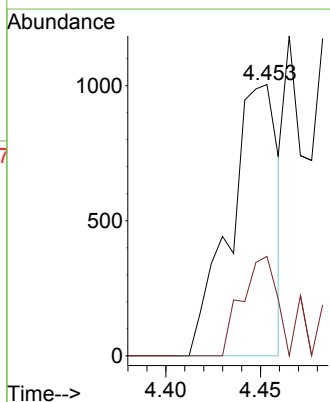
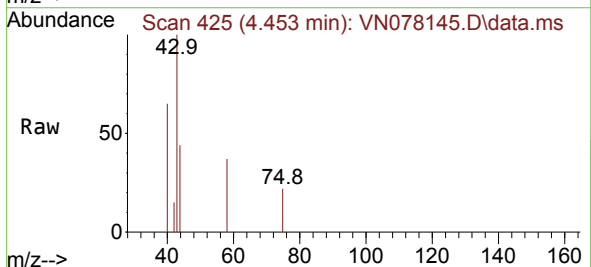
Instrument :  
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ClientSampleId :  
BP-VPB-RW11-GW-798-800

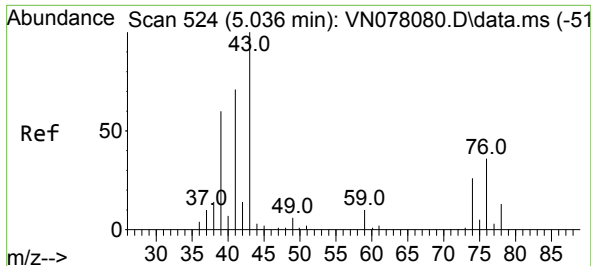
Tgt Ion: 94 Resp: 1443  
Ion Ratio Lower Upper  
94 100  
96 0.0 73.1 109.7#



#16  
Acetone  
Concen: 1.075 ug/l  
RT: 4.453 min Scan# 425  
Delta R.T. 0.018 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

Tgt Ion: 43 Resp: 1764  
Ion Ratio Lower Upper  
43 100  
58 36.7 28.0 42.0

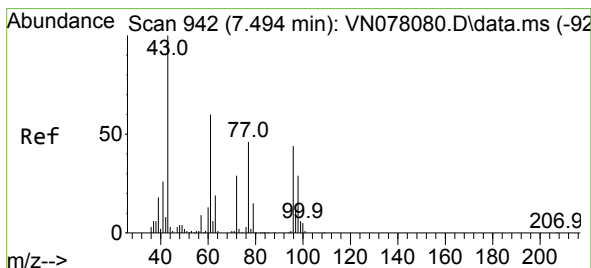
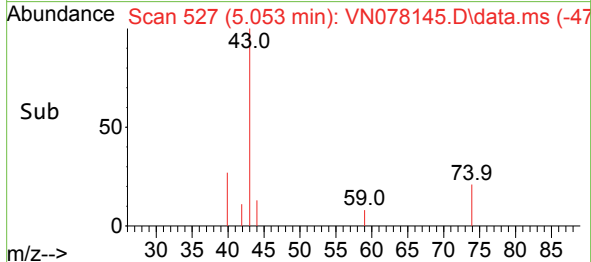
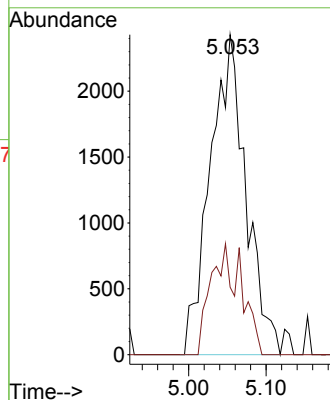
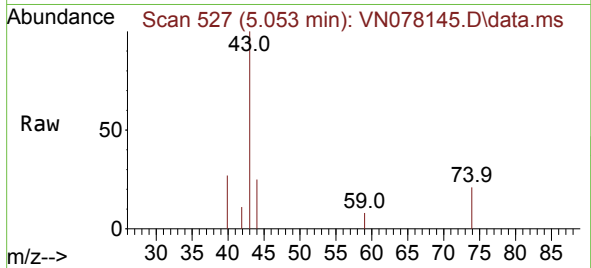




#18  
Methyl Acetate  
Concen: 1.032 ug/l  
RT: 5.053 min Scan# 51  
Delta R.T. 0.018 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

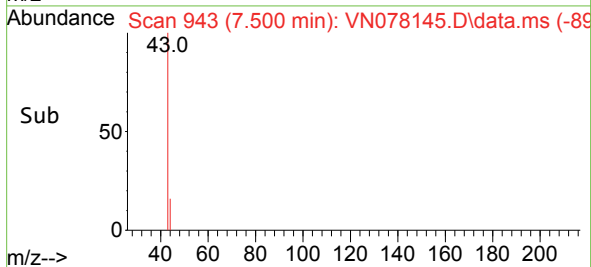
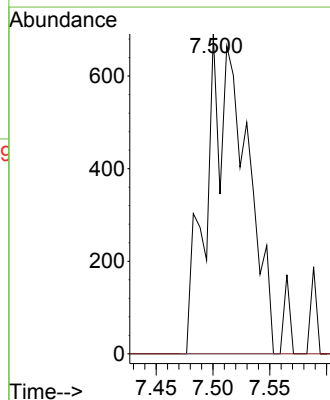
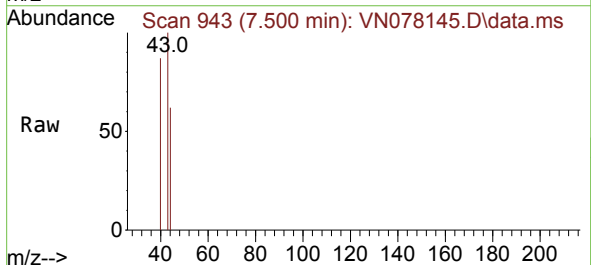
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-798-800

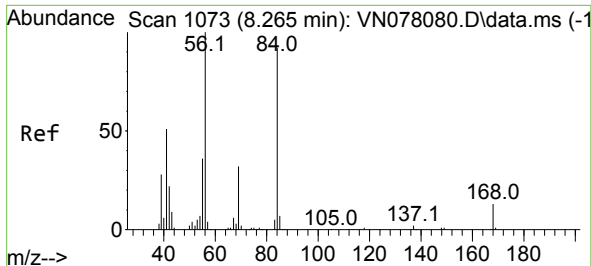
Tgt Ion: 43 Resp: 7803  
Ion Ratio Lower Upper  
43 100  
74 20.2 26.2 39.4#



#25  
2-Butanone  
Concen: 0.662 ug/l  
RT: 7.500 min Scan# 943  
Delta R.T. 0.006 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

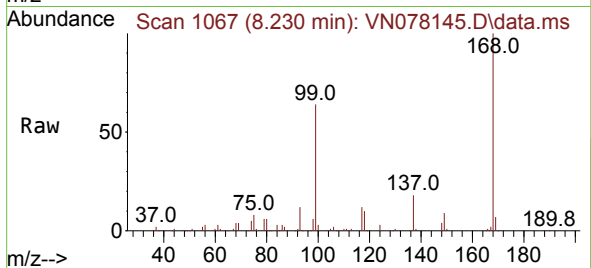
Tgt Ion: 43 Resp: 1672  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.2 45.2#



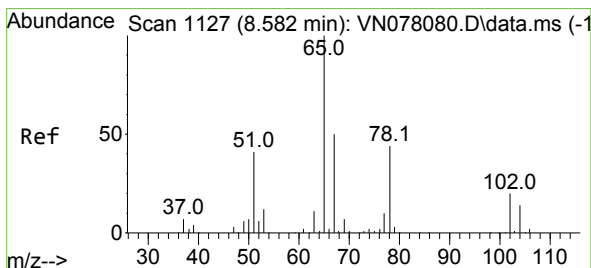
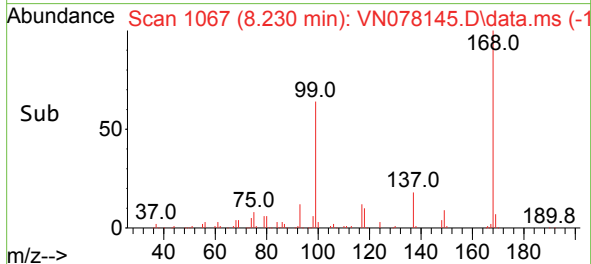
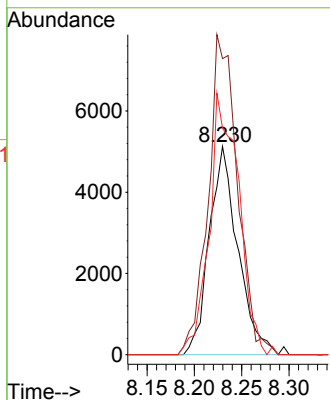


#31  
Cyclohexane  
Concen: 1.477 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.035 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-798-800

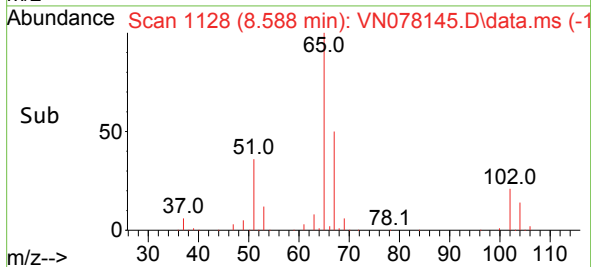
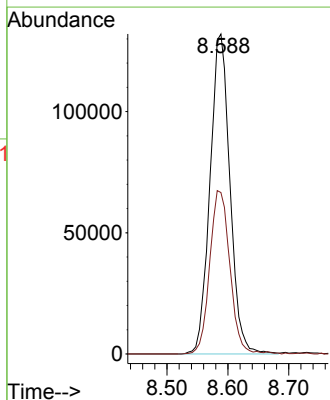
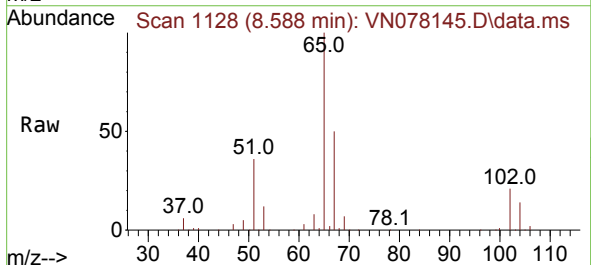


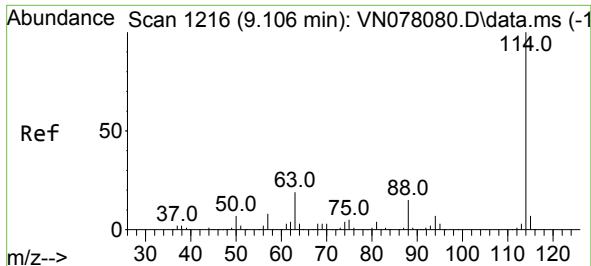
Tgt Ion: 56 Resp: 10803  
Ion Ratio Lower Upper  
56 100  
69 142.2 26.8 40.2#  
84 108.8 81.8 122.6



#33  
1,2-Dichloroethane-d4  
Concen: 52.746 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.006 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

Tgt Ion: 65 Resp: 300814  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN078145.D

Acq: 09 Jun 2023 14:58

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-RW11-GW-798-800

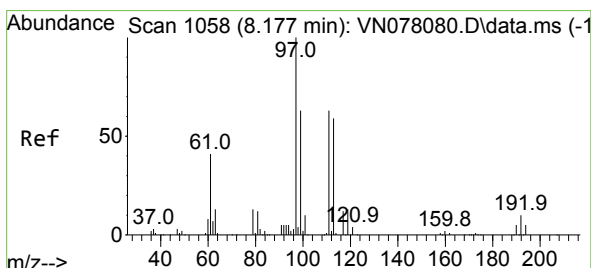
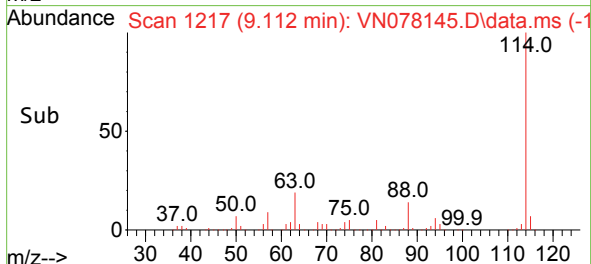
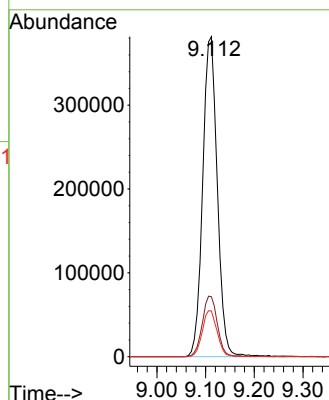
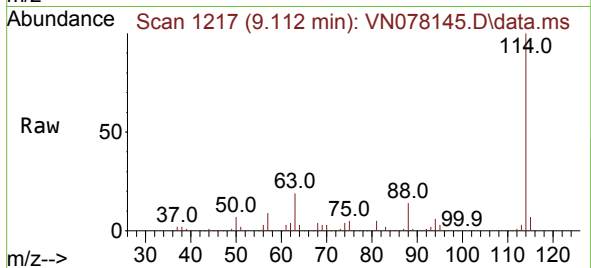
Tgt Ion:114 Resp: 792535

Ion Ratio Lower Upper

114 100

63 18.8 0.0 36.4

88 14.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.322 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VN078145.D

Acq: 09 Jun 2023 14:58

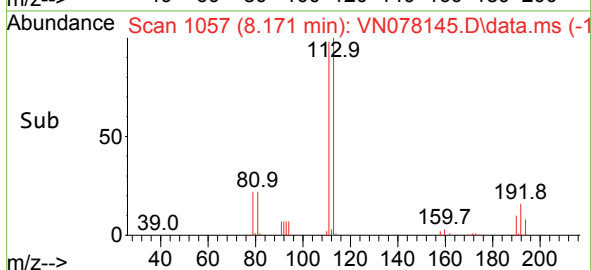
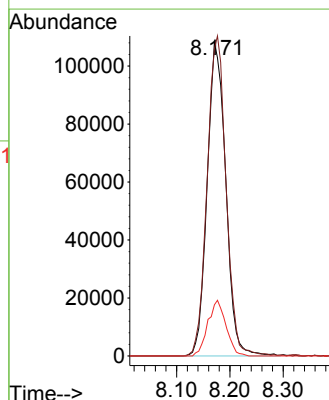
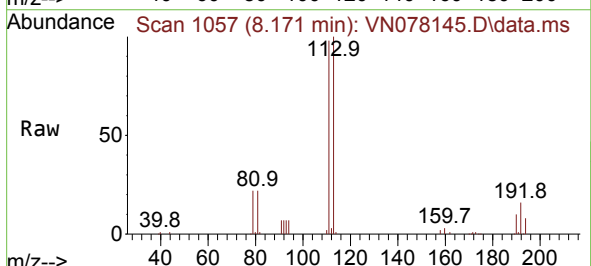
Tgt Ion:113 Resp: 262190

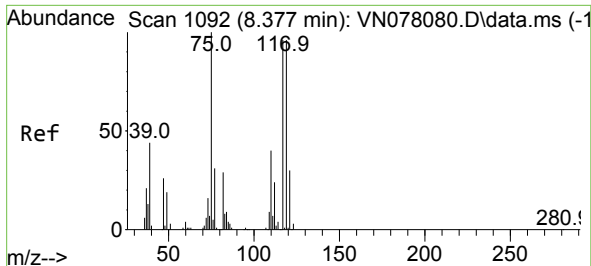
Ion Ratio Lower Upper

113 100

111 104.0 82.6 123.8

192 17.4 12.7 19.1

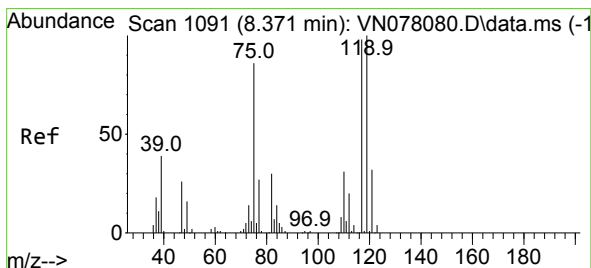
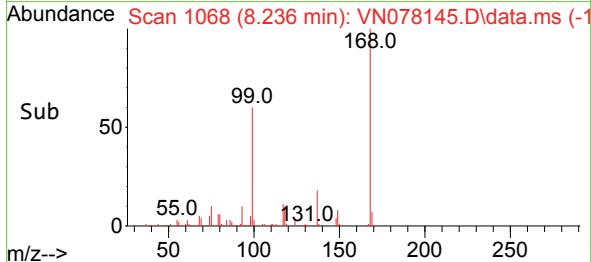
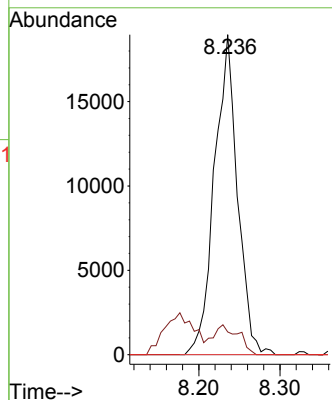
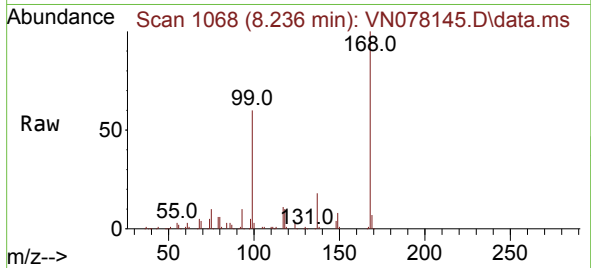




#36  
1,1-Dichloropropene  
Concen: 5.208 ug/l  
RT: 8.236 min Scan# 1068  
Delta R.T. -0.141 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

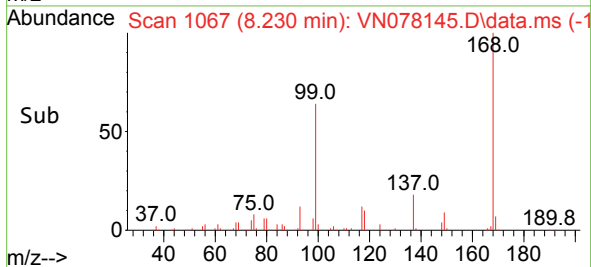
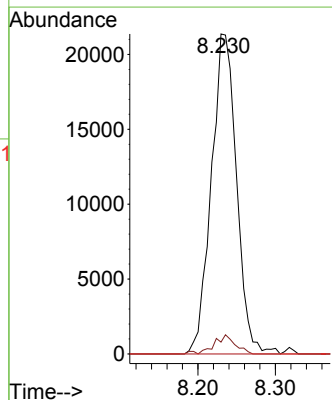
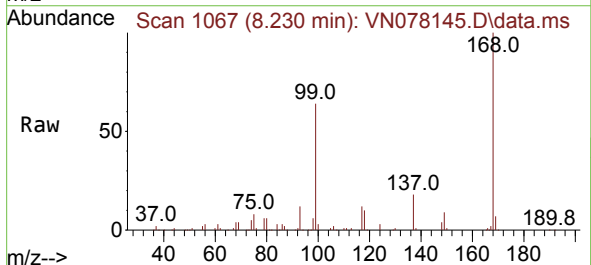
Instrument : MSVOA\_N  
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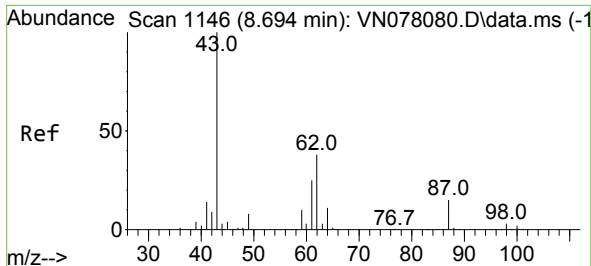
Tgt Ion: 75 Resp: 37434  
Ion Ratio Lower Upper  
75 100  
110 9.5 19.1 57.3#  
77 0.0 25.0 37.4#



#38  
Carbon Tetrachloride  
Concen: 6.364 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.141 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

Tgt Ion: 117 Resp: 48298  
Ion Ratio Lower Upper  
117 100  
119 3.7 77.3 115.9#  
121 0.0 23.3 34.9#

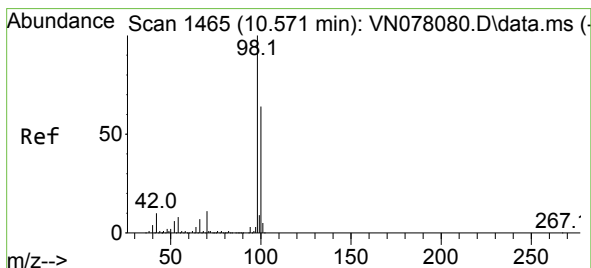
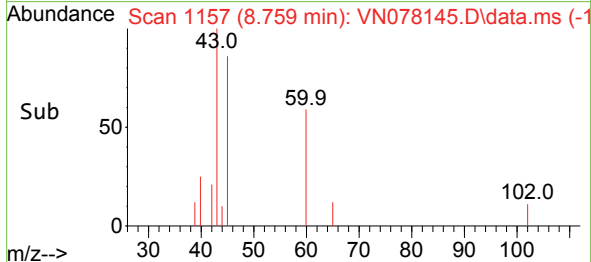
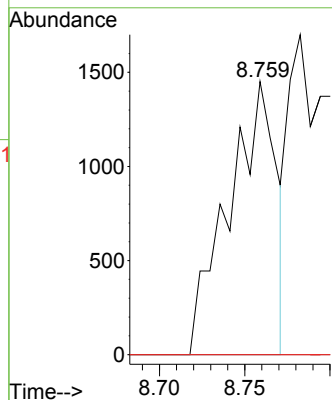
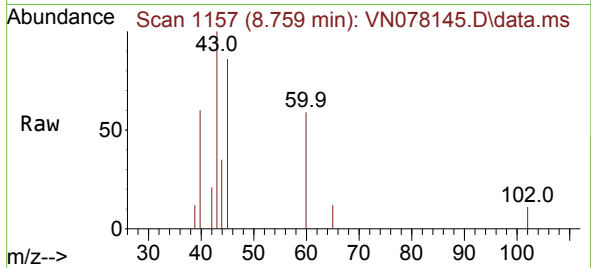




#43  
Isopropyl Acetate  
Concen: 0.264 ug/l  
RT: 8.759 min Scan# 1157  
Delta R.T. 0.065 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

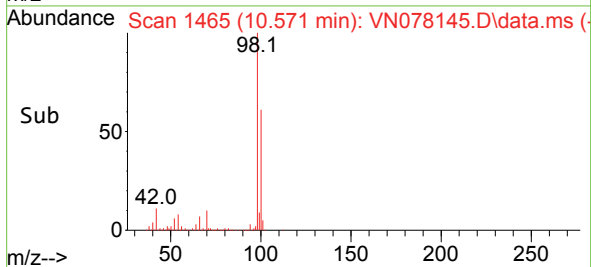
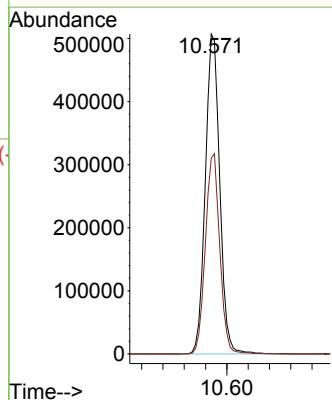
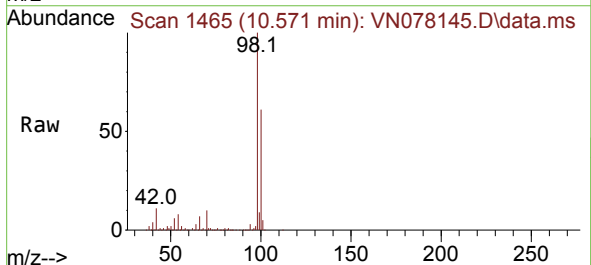
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-798-800

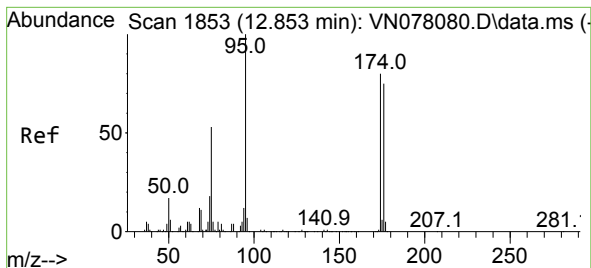
Tgt Ion: 43 Resp: 2830  
Ion Ratio Lower Upper  
43 100  
61 0.0 24.7 37.1#  
87 0.0 14.6 21.8#



#50  
Toluene-d8  
Concen: 49.286 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

Tgt Ion: 98 Resp: 952116  
Ion Ratio Lower Upper  
98 100  
100 62.4 52.0 78.0

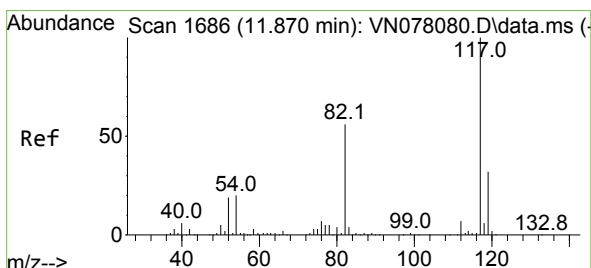
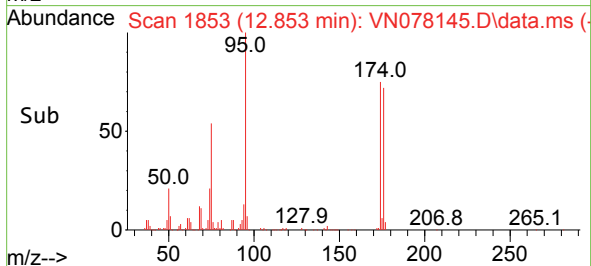
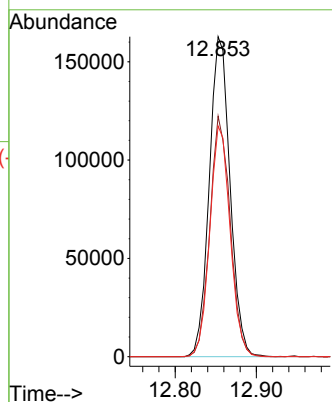
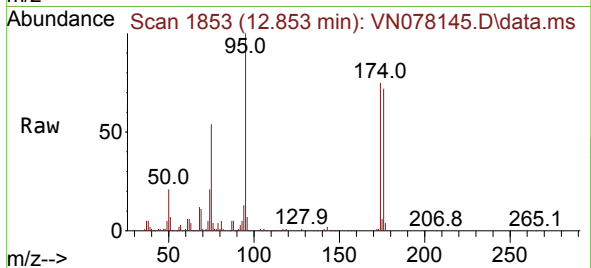




#62  
4-Bromofluorobenzene  
Concen: 48.198 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.000 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

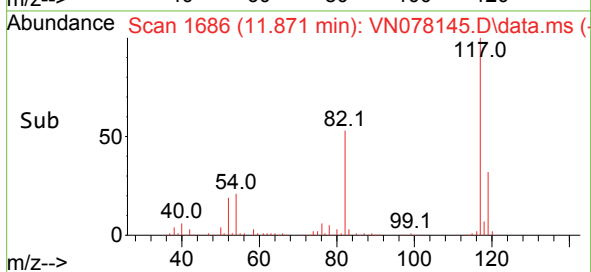
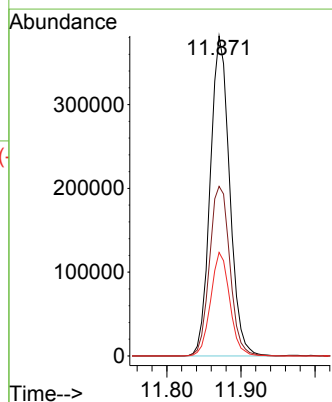
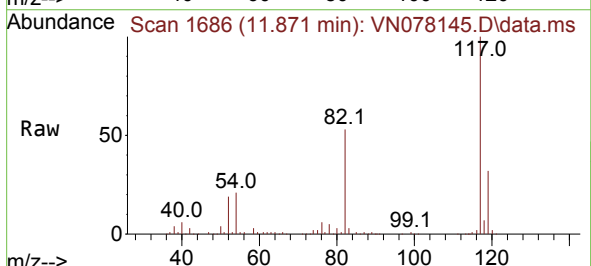
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-798-800

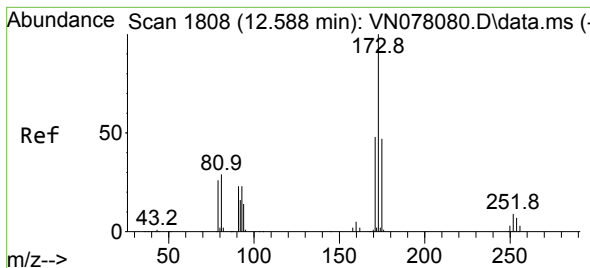
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 289456 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 73.7  | 0.0   | 143.8  |
| 176      | 70.5  | 0.0   | 135.8  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN078145.D  
Acq: 09 Jun 2023 14:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 693642 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 53.0  | 44.0  | 66.0   |
| 119      | 32.4  | 25.6  | 38.4   |





#71

Bromoform

Concen: 0.710 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN078145.D

Acq: 09 Jun 2023 14:58

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-RW11-GW-798-800

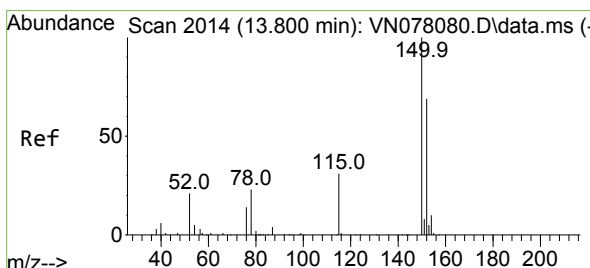
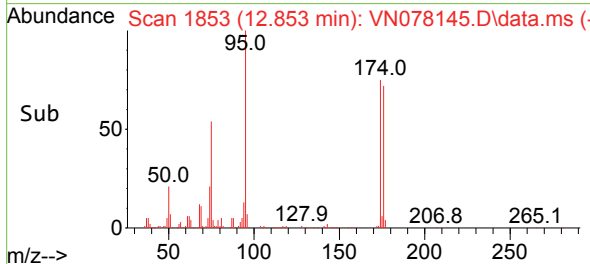
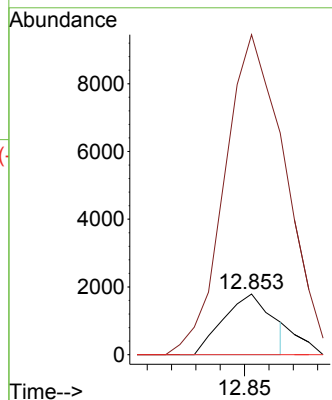
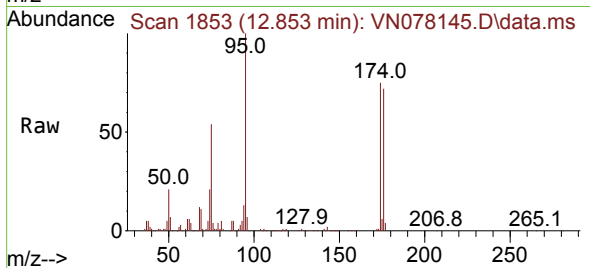
Tgt Ion:173 Resp: 2504

Ion Ratio Lower Upper

173 100

175 561.3 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. 0.000 min

Lab File: VN078145.D

Acq: 09 Jun 2023 14:58

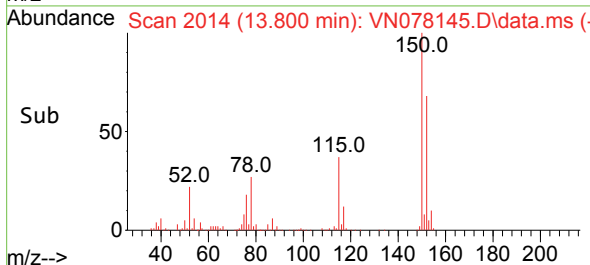
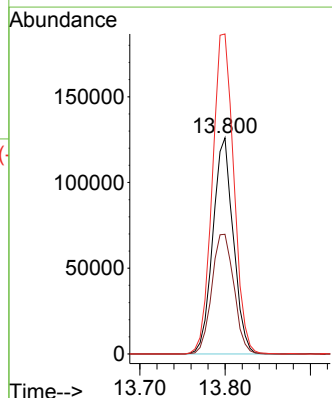
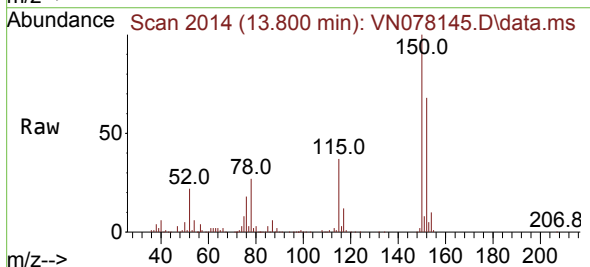
Tgt Ion:152 Resp: 209778

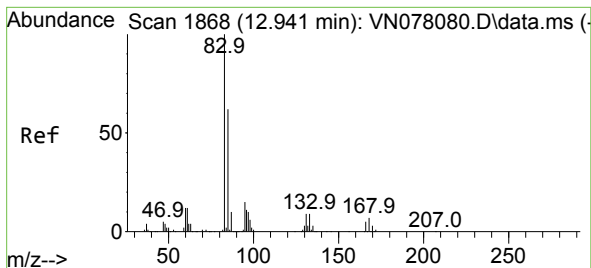
Ion Ratio Lower Upper

152 100

115 59.8 32.3 96.8

150 155.9 0.0 355.8





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.865 min Scan# 1855

Delta R.T. -0.076 min

Lab File: VN078145.D

Acq: 09 Jun 2023 14:58

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-RW11-GW-798-800

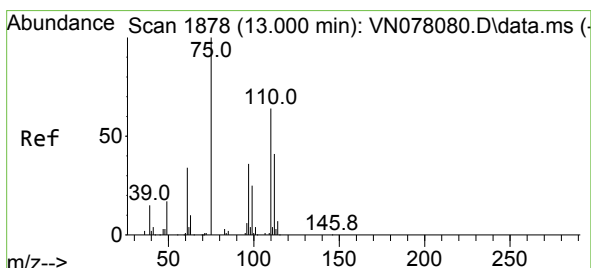
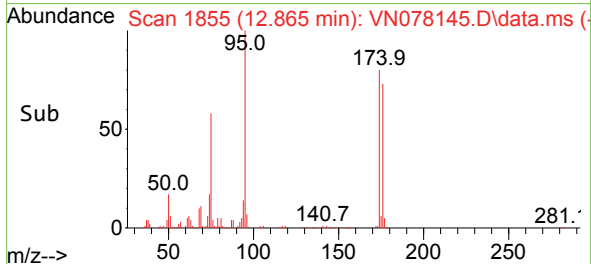
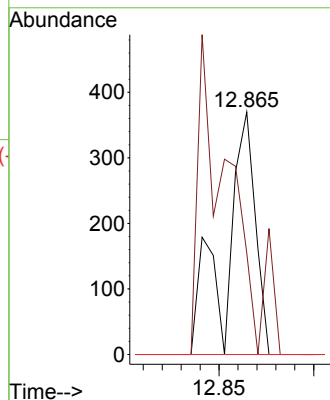
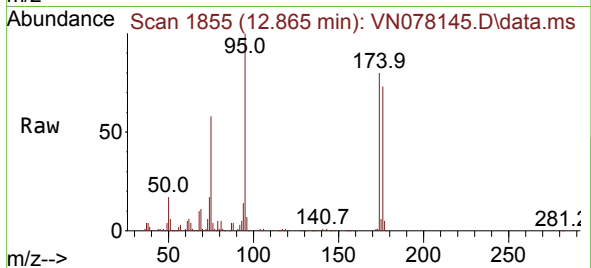
Tgt Ion: 83 Resp: 402

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 31.591 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078145.D

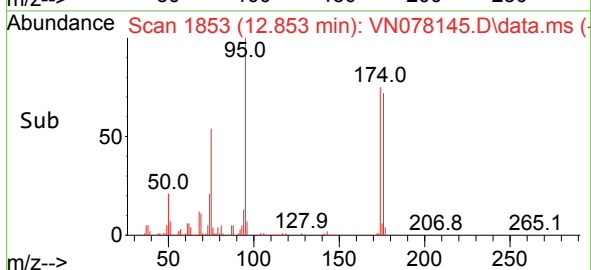
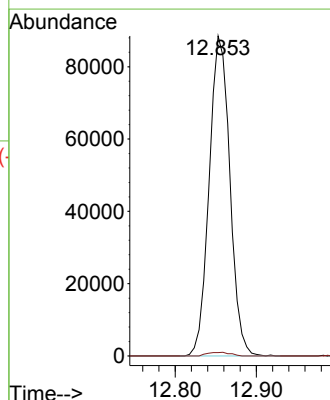
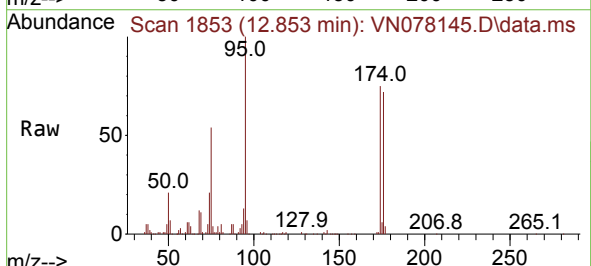
Acq: 09 Jun 2023 14:58

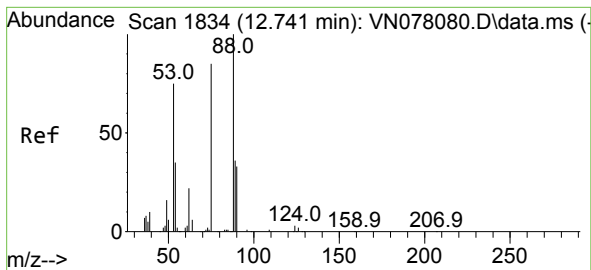
Tgt Ion: 75 Resp: 156666

Ion Ratio Lower Upper

75 100

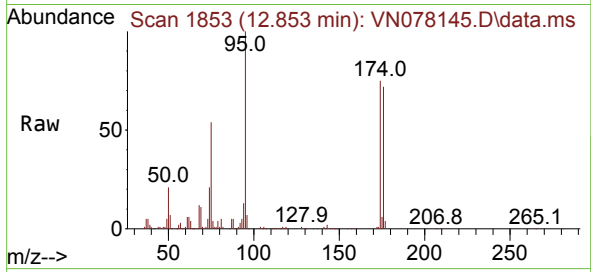
77 1.3 84.5 253.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 97.057 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN078145.D  
 Acq: 09 Jun 2023 14:58

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-RW11-GW-798-800



Tgt Ion: 75 Resp: 156666  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 67.4 101.2#  
 89 0.1 38.8 58.2#

