

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051723\  
 Data File : VN077718.D  
 Acq On : 17 May 2023 16:55  
 Operator : JC\MD  
 Sample : 02831-04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MP-4

Quant Time: May 18 01:40:08 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

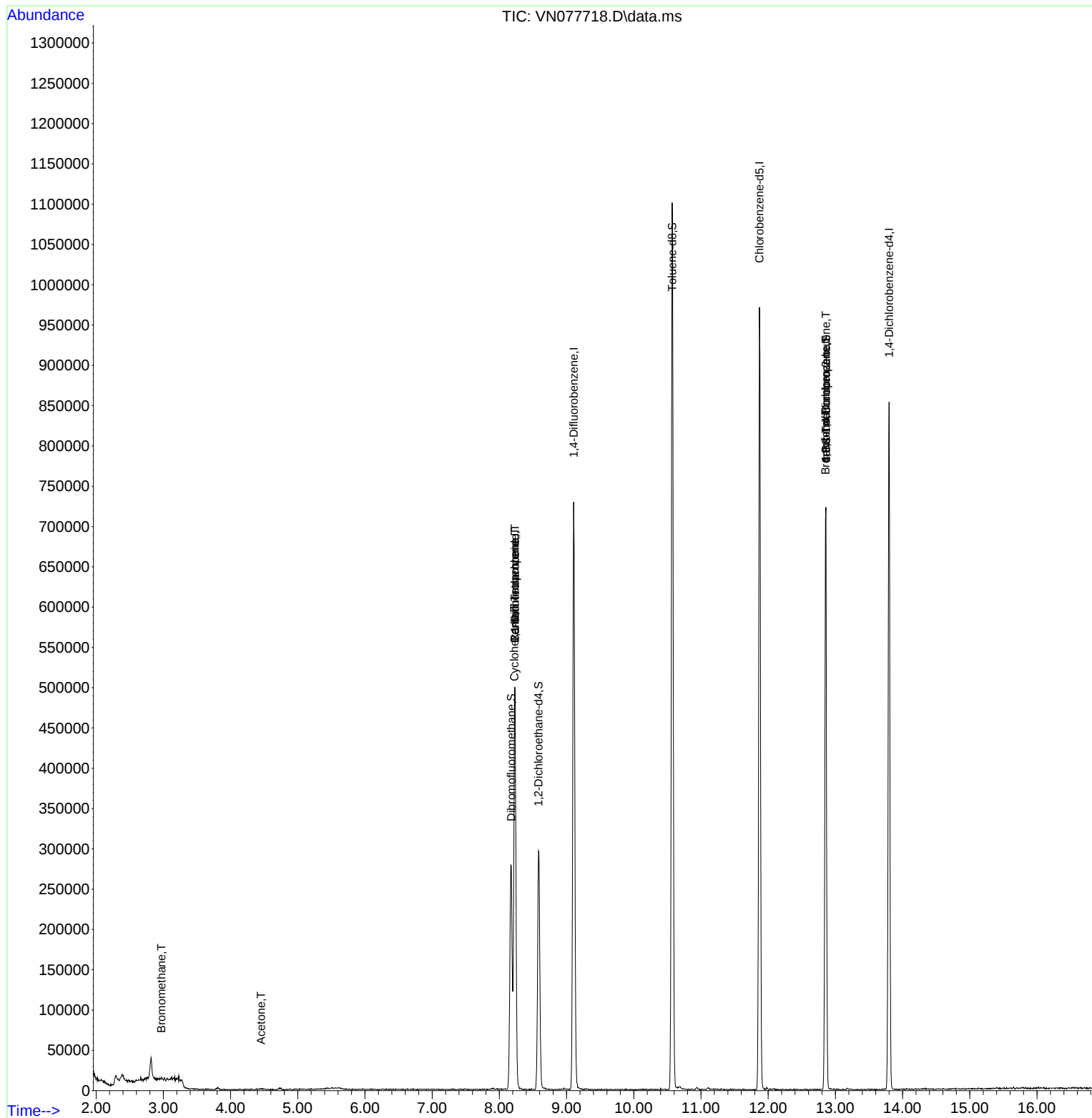
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 349491   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 643127   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.870 | 117   | 564201   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800 | 152   | 224397   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582  | 65    | 248429   | 47.507    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 95.020%  |
| 35) Dibromofluoromethane      | 8.177  | 113   | 204291   | 48.713    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 97.420%  |
| 50) Toluene-d8                | 10.571 | 98    | 794244   | 49.203    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 98.400%  |
| 62) 4-Bromofluorobenzene      | 12.859 | 95    | 259208   | 45.467    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 90.940%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.371  | 50    | 1760     | Below Cal | #      | 42       |
| 5) Bromomethane               | 2.971  | 94    | 1522     | 0.410     | ug/l # | 69       |
| 13) Acrolein                  | 4.159  | 56    | 58       | Below Cal | #      | 1        |
| 16) Acetone                   | 4.453  | 43    | 1256     | 0.763     | ug/l # | 40       |
| 20) Methylene Chloride        | 5.294  | 84    | 289      | Below Cal | #      | 13       |
| 31) Cyclohexane               | 8.224  | 56    | 9079     | 1.277     | ug/l # | 41       |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 32109    | 5.235     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 40239    | 6.496     | ug/l # | 15       |
| 71) Bromoform                 | 12.853 | 173   | 1159     | 0.412     | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.859 | 75    | 140273   | 24.961    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.859 | 75    | 140273   | 79.788    | ug/l # | 15       |
| -----                         |        |       |          |           |        |          |

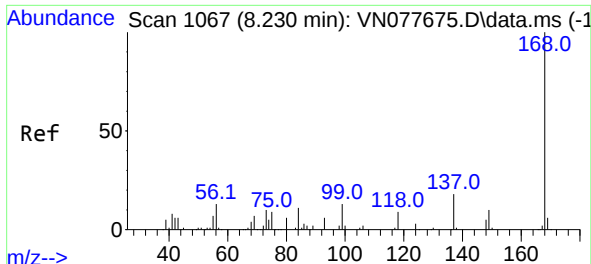
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051723\  
Data File : VN077718.D  
Acq On : 17 May 2023 16:55  
Operator : JC\MD  
Sample : 02831-04  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
MP-4

Quant Time: May 18 01:40:08 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 16 04:07:42 2023  
Response via : Initial Calibration

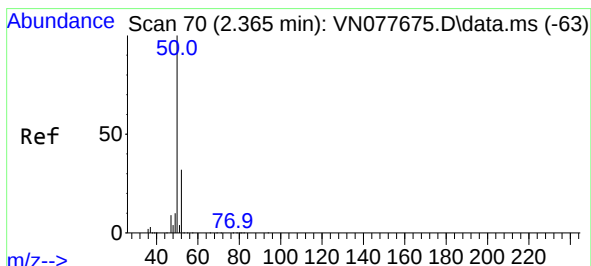
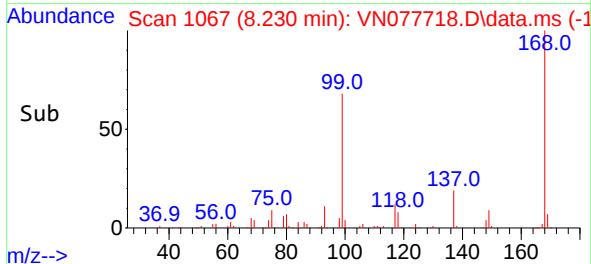
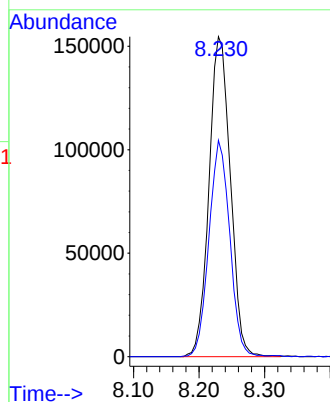
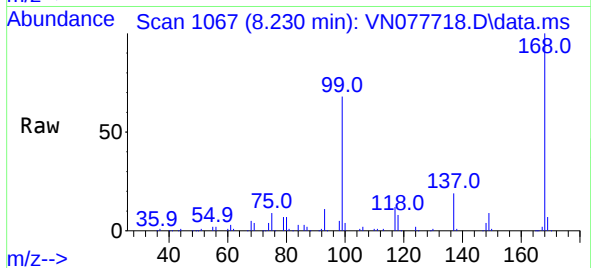




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN077718.D  
Acq: 17 May 2023 16:55

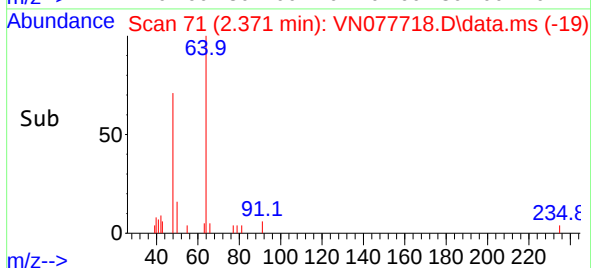
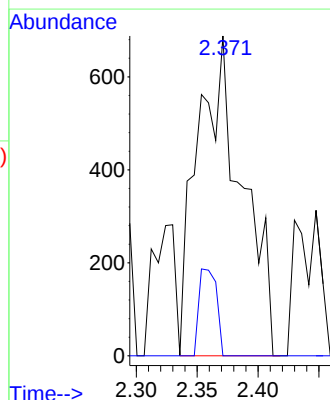
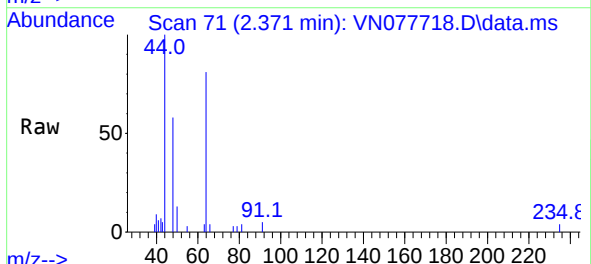
Instrument :  
MSVOA\_N  
ClientSampleId :  
MP-4

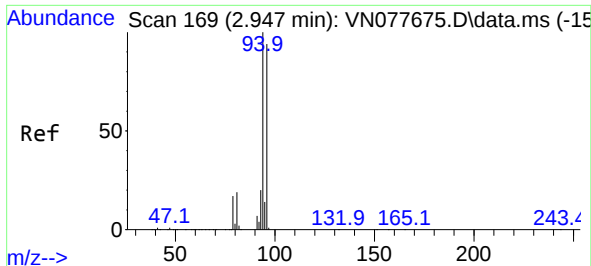
Tgt Ion:168 Resp: 349491  
Ion Ratio Lower Upper  
168 100  
99 67.6 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.371 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VN077718.D  
Acq: 17 May 2023 16:55

Tgt Ion: 50 Resp: 1760  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.5 39.7#

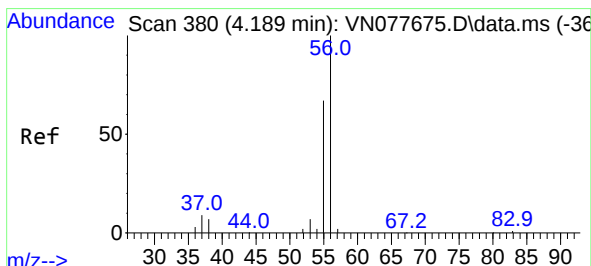
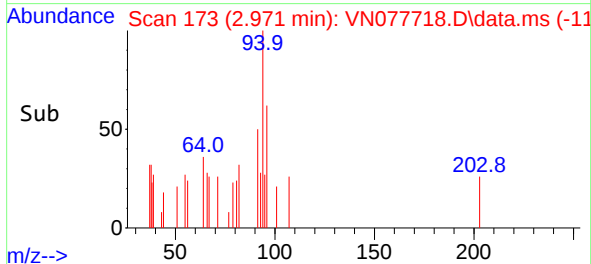
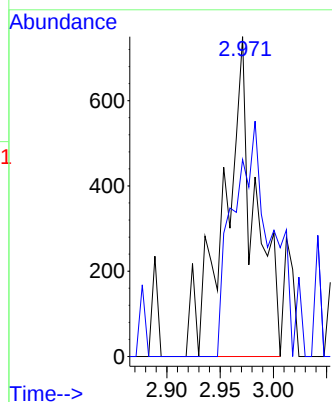
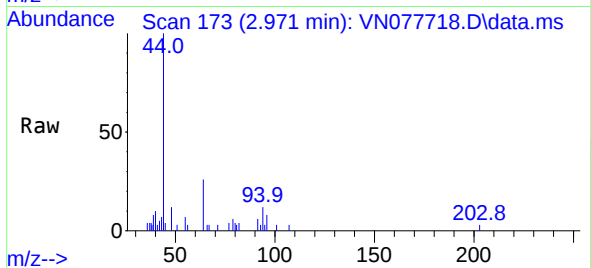




#5  
Bromomethane  
Concen: 0.410 ug/l  
RT: 2.971 min Scan# 11  
Delta R.T. 0.024 min  
Lab File: VN077718.D  
Acq: 17 May 2023 16:55

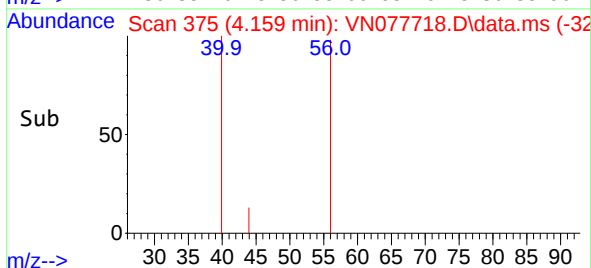
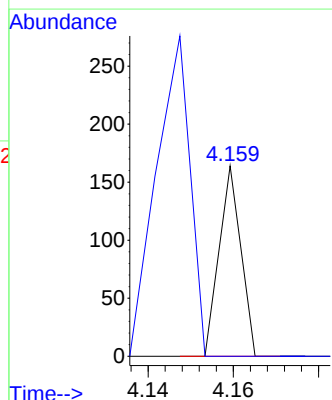
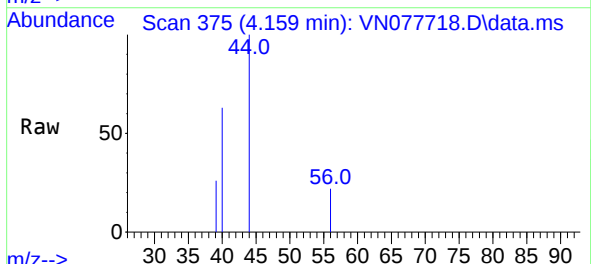
Instrument :  
MSVOA\_N  
ClientSampleId :  
MP-4

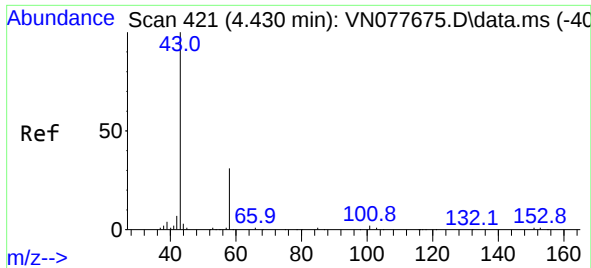
Tgt Ion: 94 Resp: 1522  
Ion Ratio Lower Upper  
94 100  
96 61.6 73.1 109.7#



#13  
Acrolein  
Concen: Below Cal  
RT: 4.159 min Scan# 375  
Delta R.T. -0.030 min  
Lab File: VN077718.D  
Acq: 17 May 2023 16:55

Tgt Ion: 56 Resp: 58  
Ion Ratio Lower Upper  
56 100  
55 262.1 54.5 81.7#

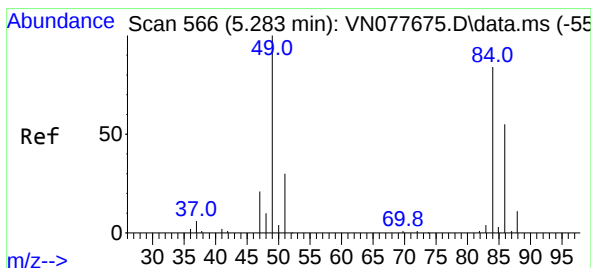
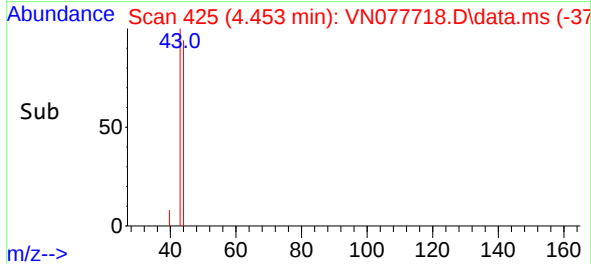
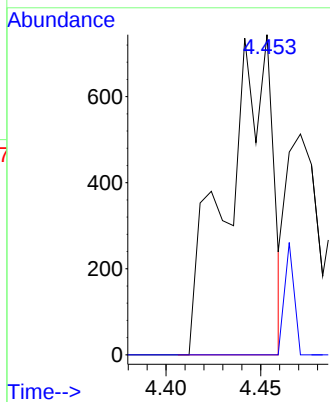
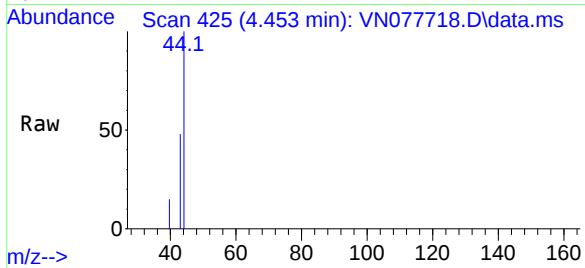




#16  
Acetone  
Concen: 0.763 ug/l  
RT: 4.453 min Scan# 41  
Delta R.T. 0.023 min  
Lab File: VN077718.D  
Acq: 17 May 2023 16:55

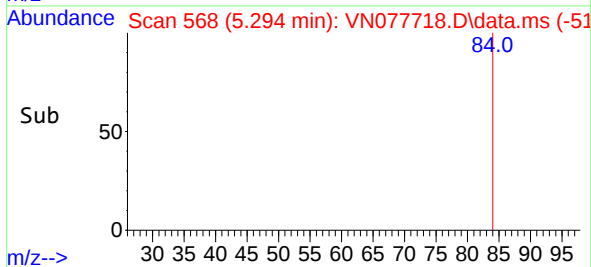
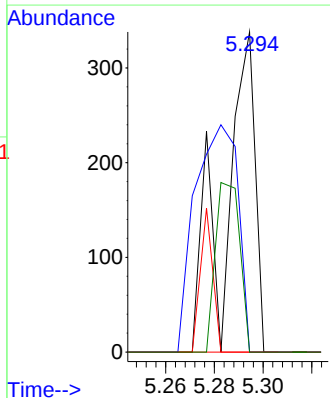
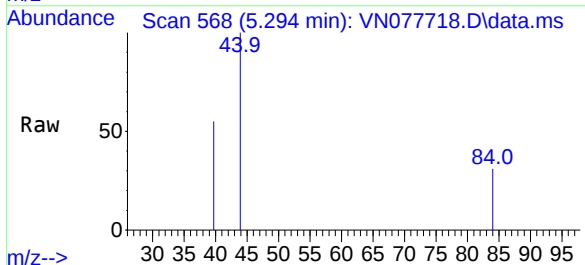
Instrument :  
MSVOA\_N  
ClientSampleId :  
MP-4

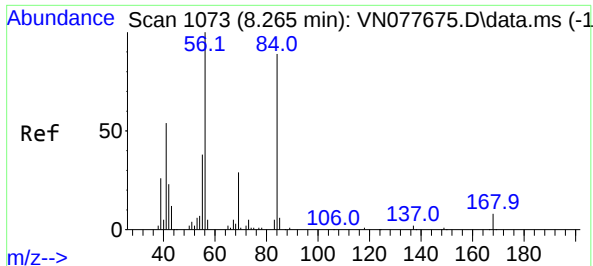
Tgt Ion: 43 Resp: 1256  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.0 42.0#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.294 min Scan# 568  
Delta R.T. 0.011 min  
Lab File: VN077718.D  
Acq: 17 May 2023 16:55

Tgt Ion: 84 Resp: 289  
Ion Ratio Lower Upper  
84 100  
49 0.0 79.7 119.5#  
51 0.0 25.2 37.8#  
86 0.0 53.3 79.9#





#31

Cyclohexane

Concen: 1.277 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

Lab File: VN077718.D

Acq: 17 May 2023 16:55

Instrument :

MSVOA\_N

ClientSampleId :

MP-4

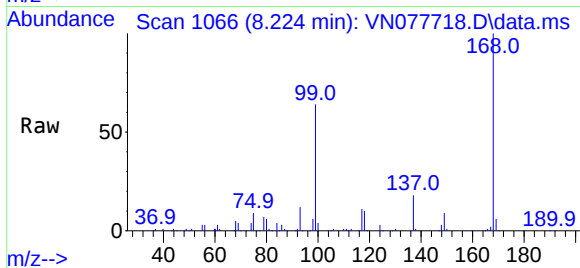
Tgt Ion: 56 Resp: 9079

Ion Ratio Lower Upper

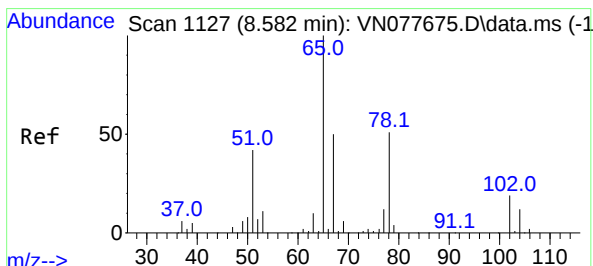
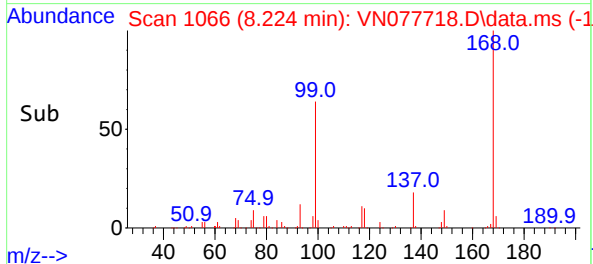
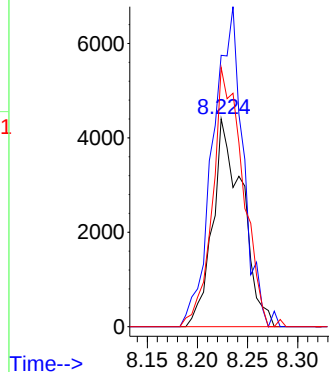
56 100

69 130.5 26.8 40.2#

84 124.6 81.8 122.6#



Abundance



#33

1,2-Dichloroethane-d4

Concen: 47.507 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN077718.D

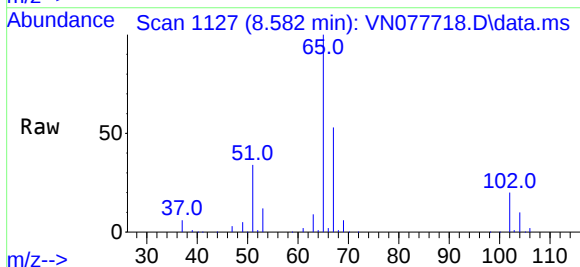
Acq: 17 May 2023 16:55

Tgt Ion: 65 Resp: 248429

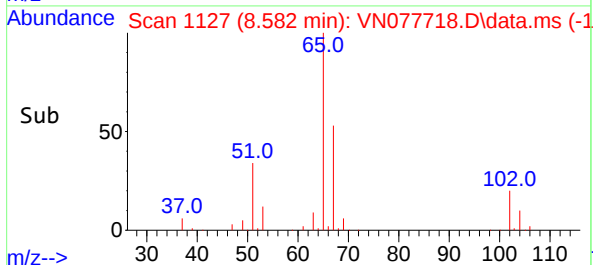
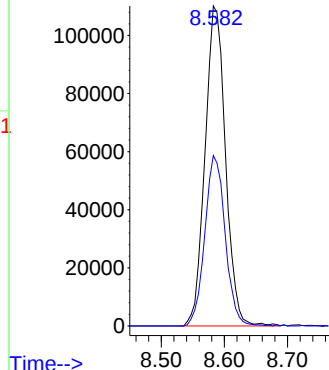
Ion Ratio Lower Upper

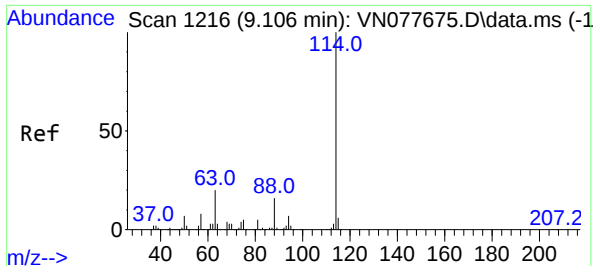
65 100

67 53.0 0.0 106.6



Abundance





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN077718.D

Acq: 17 May 2023 16:55

Instrument :

MSVOA\_N

ClientSampleId :

MP-4

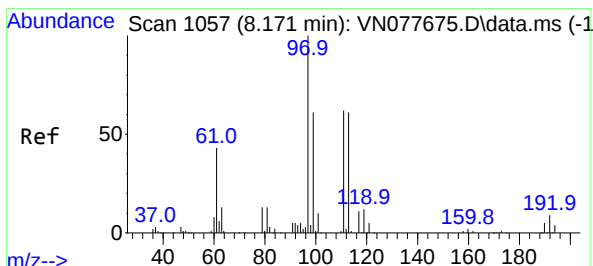
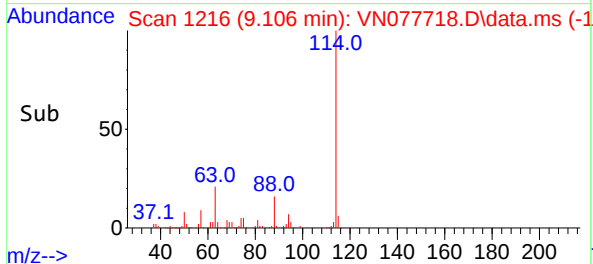
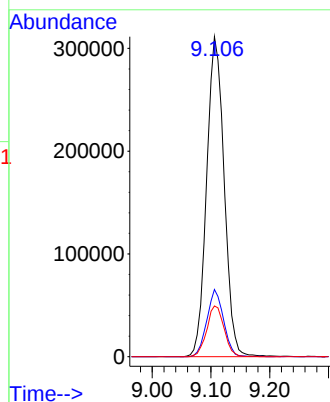
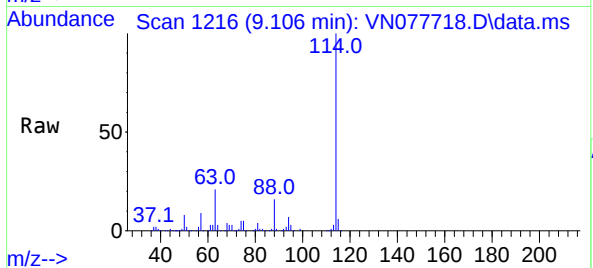
Tgt Ion:114 Resp: 643127

Ion Ratio Lower Upper

114 100

63 21.0 0.0 36.4

88 15.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.713 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN077718.D

Acq: 17 May 2023 16:55

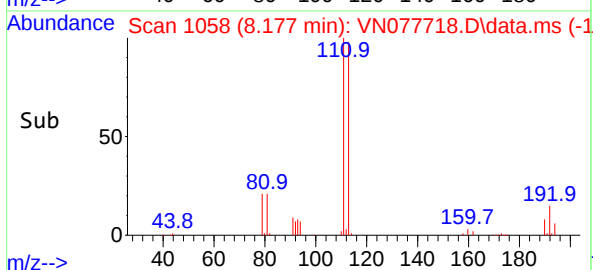
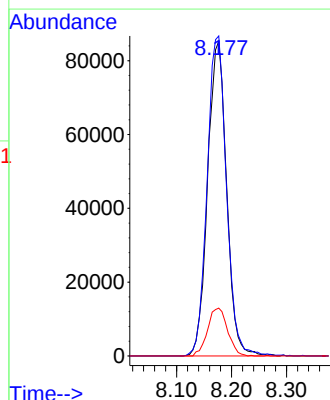
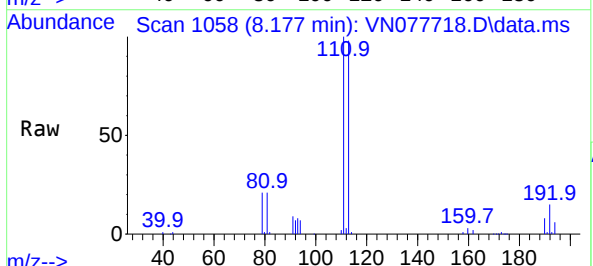
Tgt Ion:113 Resp: 204291

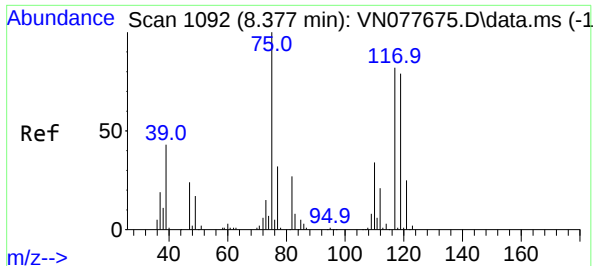
Ion Ratio Lower Upper

113 100

111 103.8 82.6 123.8

192 16.0 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.235 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN077718.D

Acq: 17 May 2023 16:55

Instrument :

MSVOA\_N

ClientSampleId :

MP-4

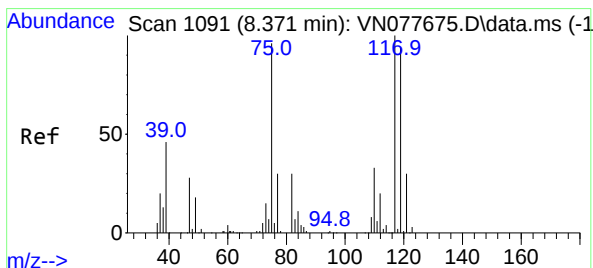
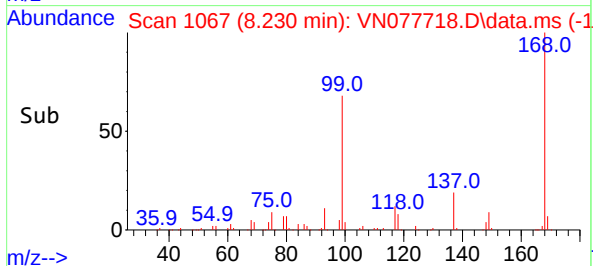
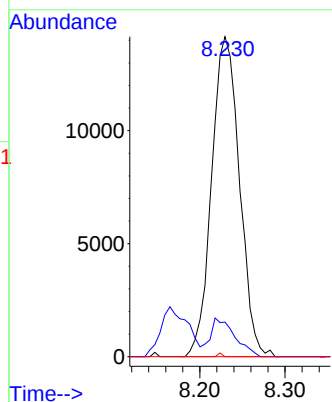
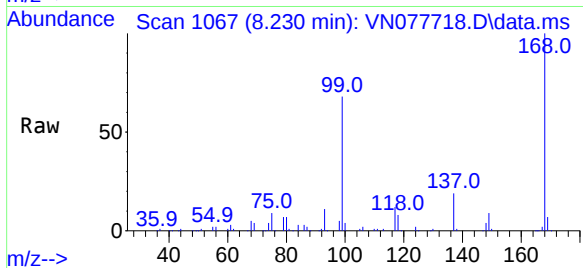
Tgt Ion: 75 Resp: 32109

Ion Ratio Lower Upper

75 100

110 10.7 19.1 57.3#

77 0.2 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.496 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN077718.D

Acq: 17 May 2023 16:55

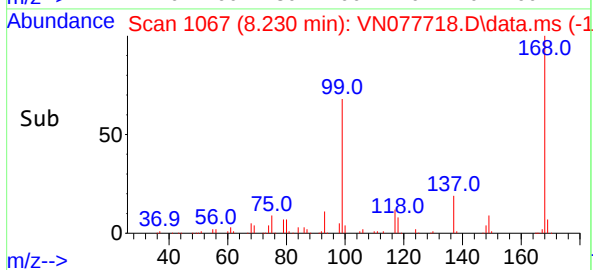
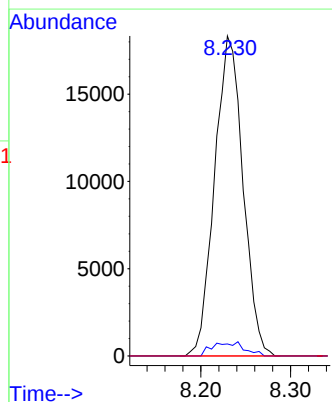
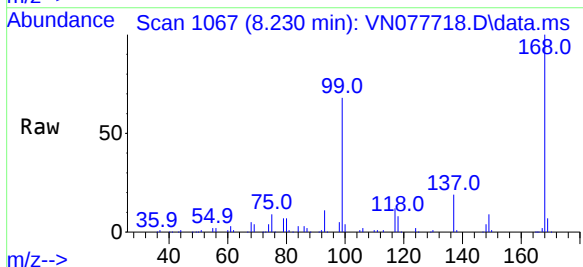
Tgt Ion: 117 Resp: 40239

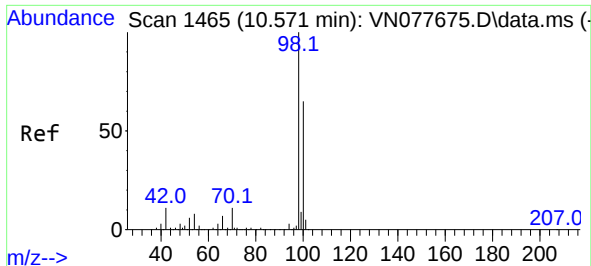
Ion Ratio Lower Upper

117 100

119 3.8 77.3 115.9#

121 0.0 23.3 34.9#

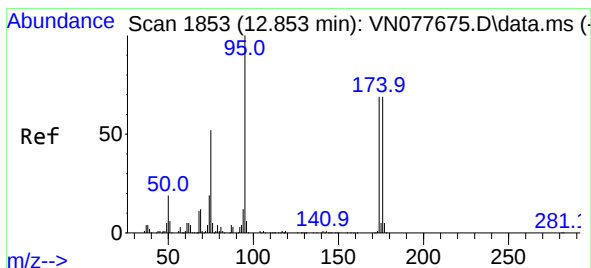
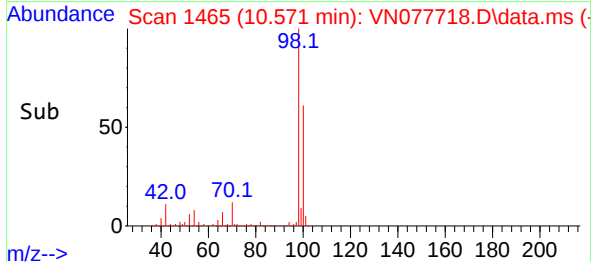
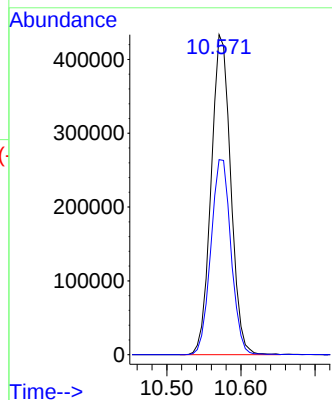
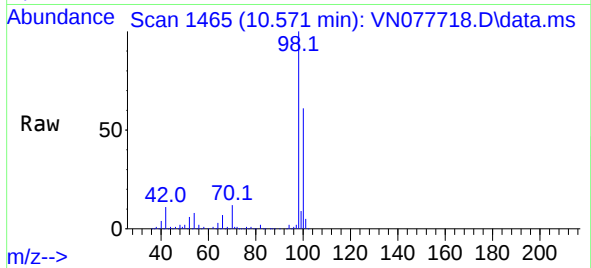




#50  
Toluene-d8  
Concen: 49.203 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN077718.D  
Acq: 17 May 2023 16:55

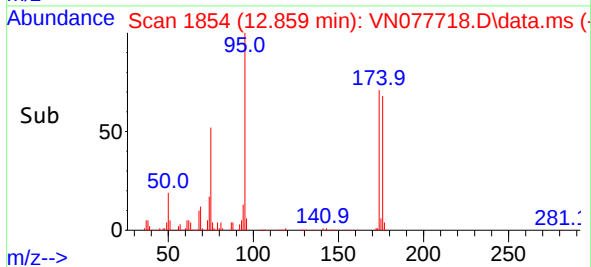
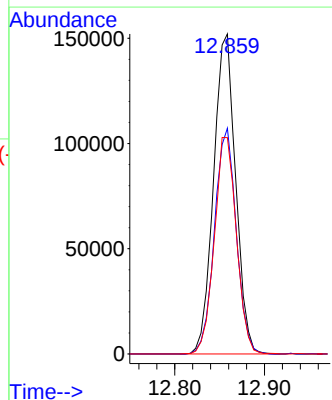
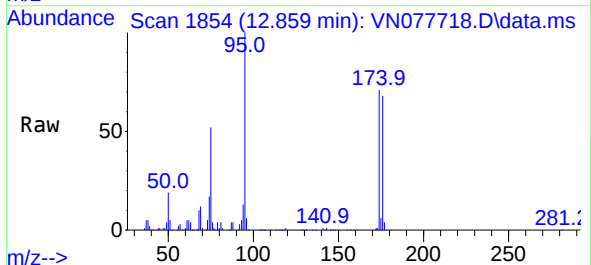
Instrument :  
MSVOA\_N  
ClientSampleId :  
MP-4

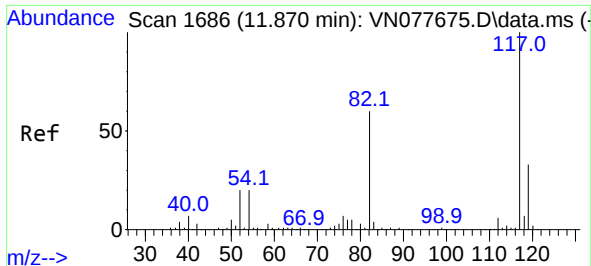
Tgt Ion: 98 Resp: 794244  
Ion Ratio Lower Upper  
98 100  
100 62.8 52.0 78.0



#62  
4-Bromofluorobenzene  
Concen: 45.467 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VN077718.D  
Acq: 17 May 2023 16:55

Tgt Ion: 95 Resp: 259208  
Ion Ratio Lower Upper  
95 100  
174 69.7 0.0 143.8  
176 67.9 0.0 135.8

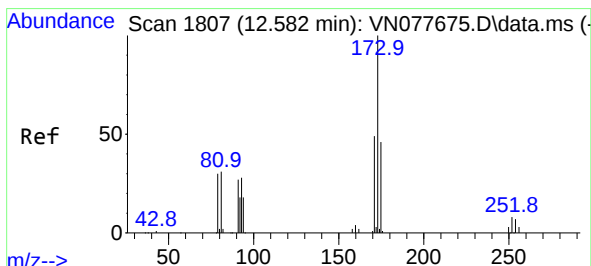
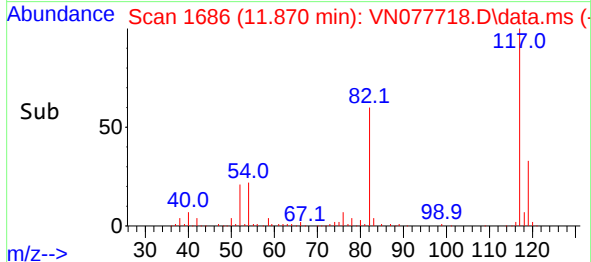
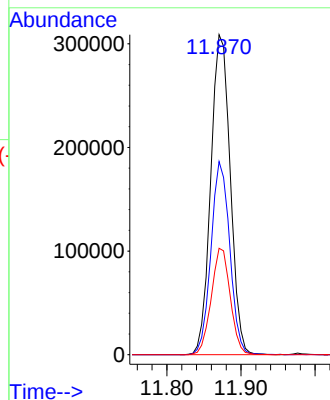
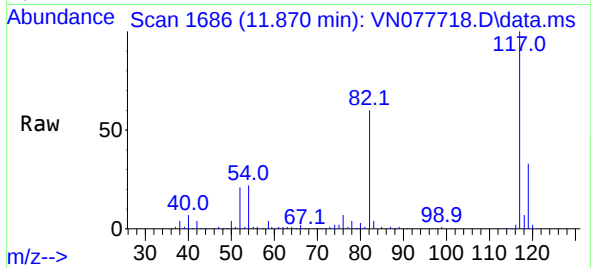




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN077718.D  
Acq: 17 May 2023 16:55

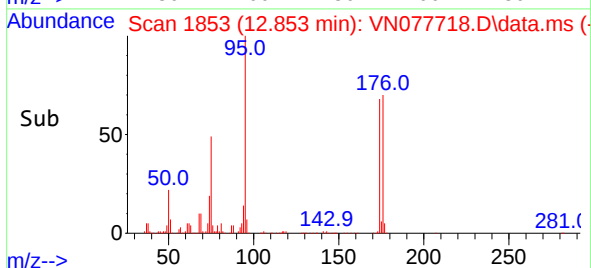
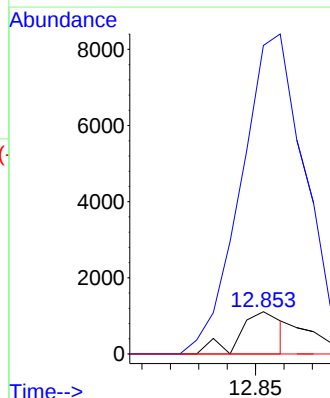
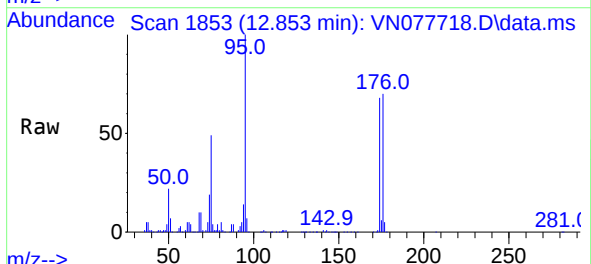
Instrument :  
MSVOA\_N  
ClientSampleId :  
MP-4

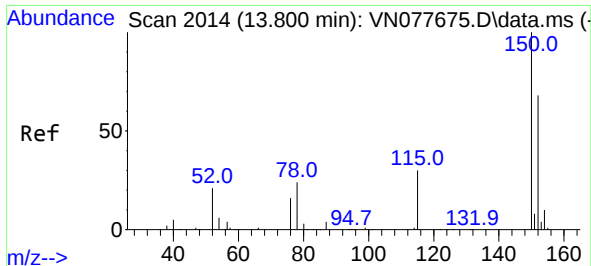
Tgt Ion:117 Resp: 564201  
Ion Ratio Lower Upper  
117 100  
82 60.4 44.0 66.0  
119 33.3 25.6 38.4



#71  
Bromoform  
Concen: 0.412 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.271 min  
Lab File: VN077718.D  
Acq: 17 May 2023 16:55

Tgt Ion:173 Resp: 1159  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.3 73.0#  
254 0.0 0.0 0.0

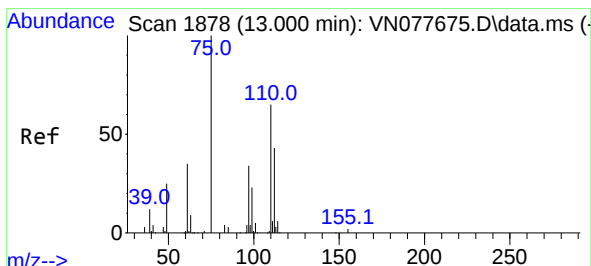
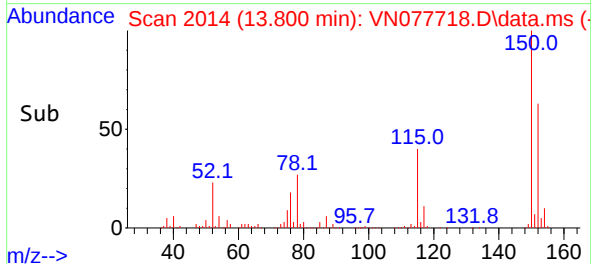
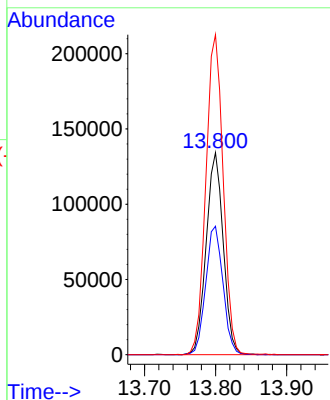
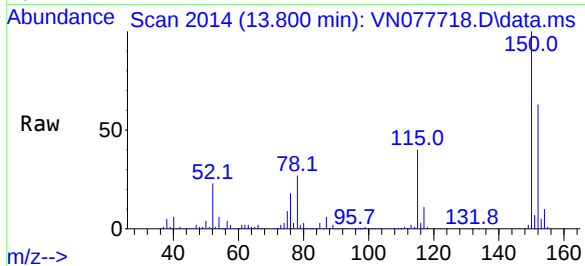




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.800 min Scan# 2014  
Delta R.T. -0.000 min  
Lab File: VN077718.D  
Acq: 17 May 2023 16:55

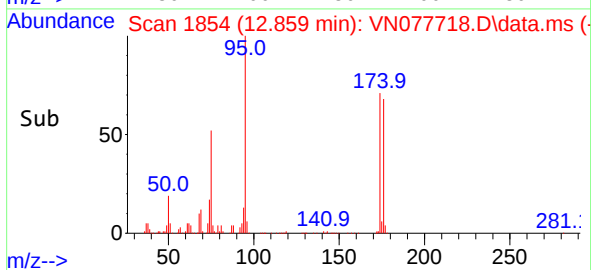
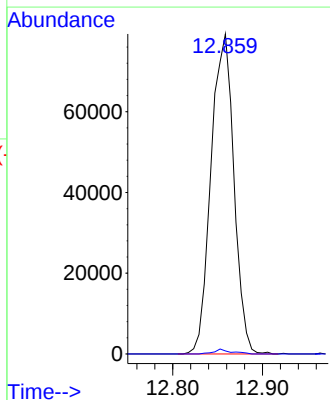
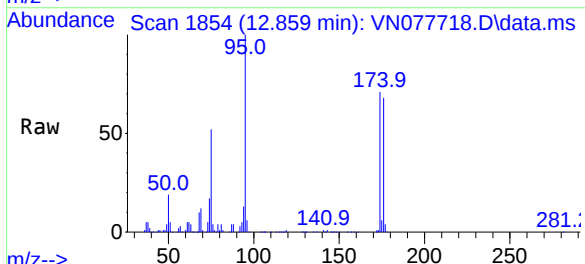
Instrument :  
MSVOA\_N  
ClientSampleId :  
MP-4

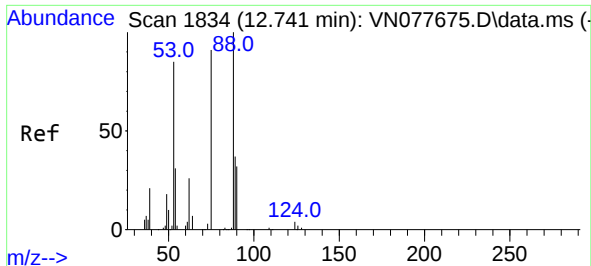
Tgt Ion:152 Resp: 224397  
Ion Ratio Lower Upper  
152 100  
115 64.3 32.3 96.8  
150 159.9 0.0 355.8



#76  
1,2,3-Trichloropropane  
Concen: 24.961 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. -0.141 min  
Lab File: VN077718.D  
Acq: 17 May 2023 16:55

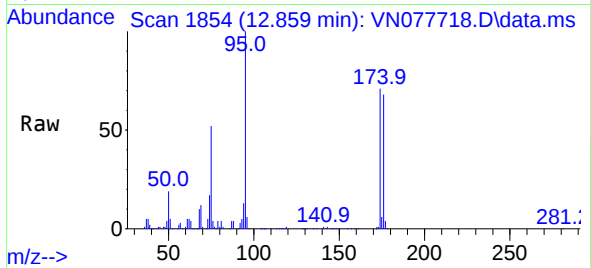
Tgt Ion: 75 Resp: 140273  
Ion Ratio Lower Upper  
75 100  
77 1.1 84.5 253.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 79.788 ug/l  
 RT: 12.859 min Scan# 11  
 Delta R.T. 0.118 min  
 Lab File: VN077718.D  
 Acq: 17 May 2023 16:55

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MP-4



Tgt Ion: 75 Resp: 140273  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 67.4 101.2#  
 89 0.0 38.8 58.2#

