

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051923\  
 Data File : VN077767.D  
 Acq On : 19 May 2023 16:24  
 Operator : JC\MD  
 Sample : 02862-03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-RW11-GW-98-100

Quant Time: May 29 09:50:28 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

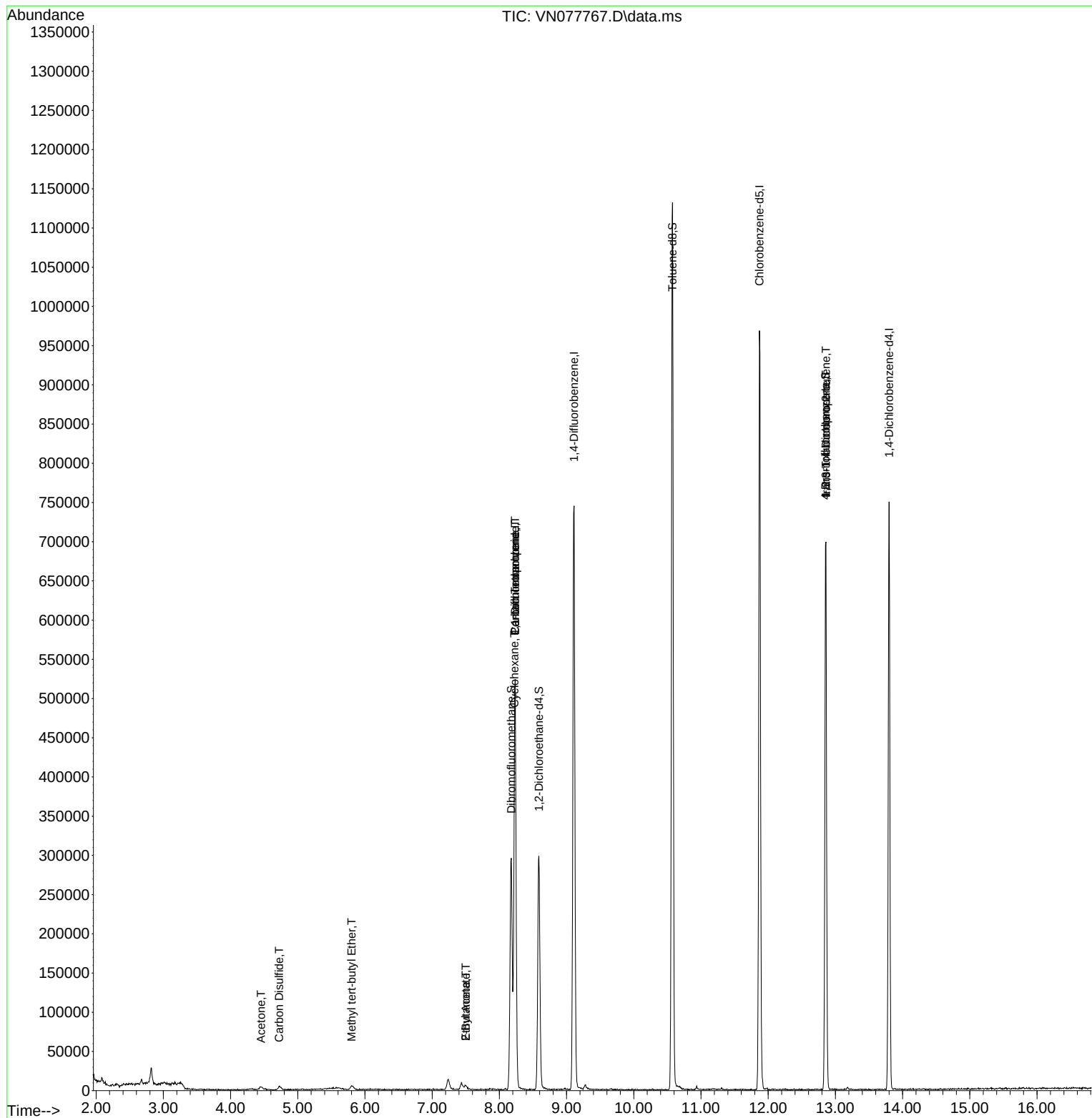
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.236  | 168   | 377559   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.112  | 114   | 679599   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 586309   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800 | 152   | 197511   | 50.000    | ug/l   | 0.00     |
|                               |        |       |          |           |        |          |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.588  | 65    | 249730   | 44.206    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 88.420%  |
| 35) Dibromofluoromethane      | 8.177  | 113   | 217110   | 48.991    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 97.980%  |
| 50) Toluene-d8                | 10.577 | 98    | 821934   | 48.186    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 96.380%  |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 258988   | 42.990    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 85.980%  |
|                               |        |       |          |           |        |          |
| Target Compounds              |        |       |          |           |        |          |
| 3) Chloromethane              | 2.365  | 50    | 1386     | Below Cal | #      | 71       |
| 13) Acrolein                  | 4.195  | 56    | 299      | Below Cal | #      | 45       |
| 16) Acetone                   | 4.453  | 43    | 7010     | 3.944     | ug/l # | 80       |
| 17) Carbon Disulfide          | 4.724  | 76    | 2851     | 0.266     | ug/l # | 75       |
| 19) Methyl tert-butyl Ether   | 5.800  | 73    | 7061     | 0.491     | ug/l # | 69       |
| 20) Methylene Chloride        | 5.289  | 84    | 251      | Below Cal | #      | 13       |
| 25) 2-Butanone                | 7.500  | 43    | 9261     | 3.331     | ug/l # | 86       |
| 31) Cyclohexane               | 8.224  | 56    | 8595     | 1.119     | ug/l # | 37       |
| 36) 1,1-Dichloropropene       | 8.236  | 75    | 31815    | 4.908     | ug/l # | 48       |
| 37) Ethyl Acetate             | 7.500  | 43    | 9261     | 1.603     | ug/l # | 63       |
| 38) Carbon Tetrachloride      | 8.236  | 117   | 39435    | 6.025     | ug/l # | 15       |
| 76) 1,2,3-Trichloropropane    | 12.859 | 75    | 135547   | 27.403    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.859 | 75    | 135547   | 87.595    | ug/l # | 15       |
| -----                         |        |       |          |           |        |          |

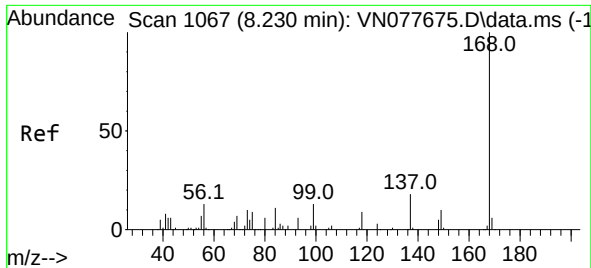
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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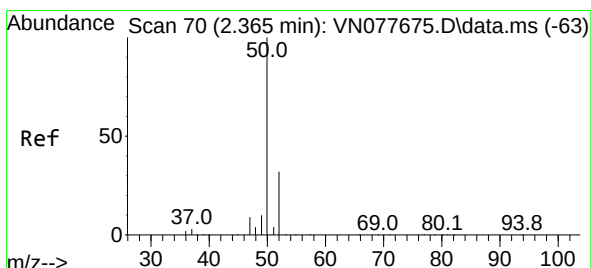
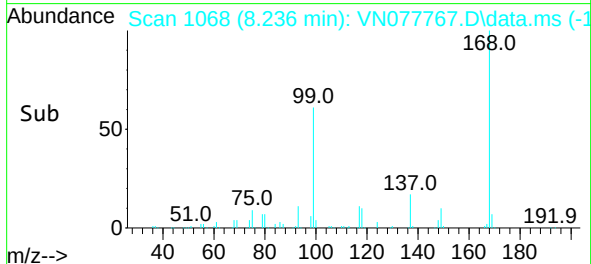
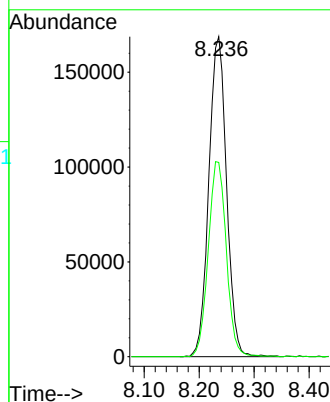
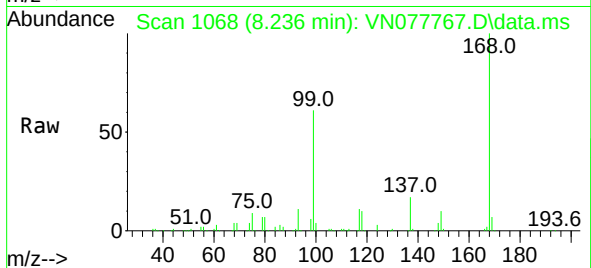




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.236 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN077767.D  
Acq: 19 May 2023 16:24

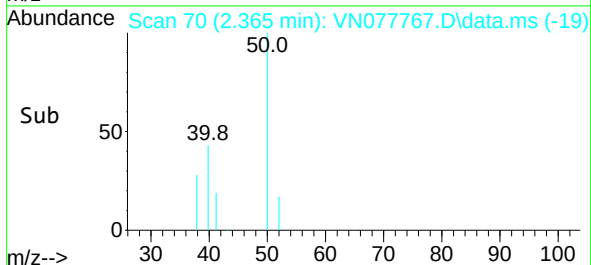
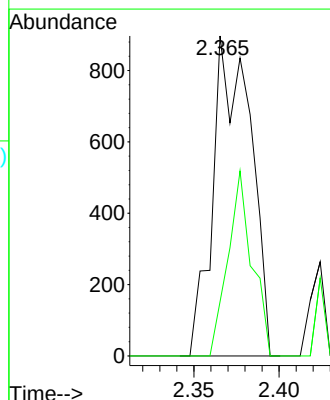
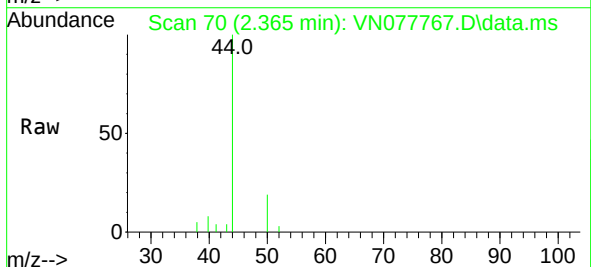
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-98-100

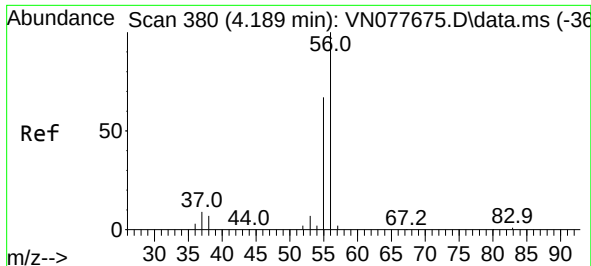
Tgt Ion:168 Resp: 377559  
Ion Ratio Lower Upper  
168 100  
99 60.7 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.000 min  
Lab File: VN077767.D  
Acq: 19 May 2023 16:24

Tgt Ion: 50 Resp: 1386  
Ion Ratio Lower Upper  
50 100  
52 16.9 26.5 39.7#

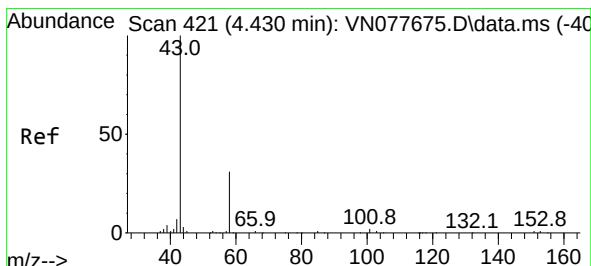
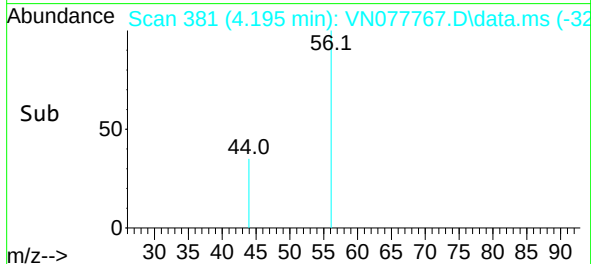
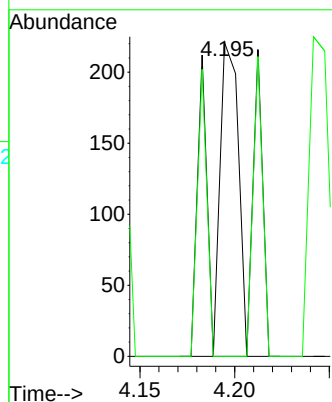
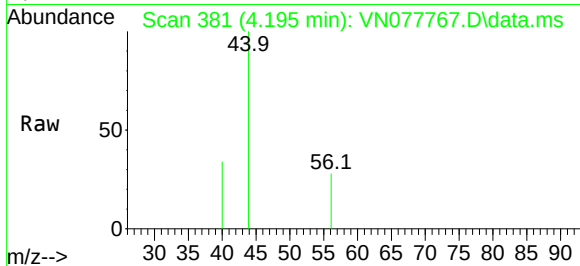




#13  
Acrolein  
Concen: Below Cal  
RT: 4.195 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VN077767.D  
Acq: 19 May 2023 16:24

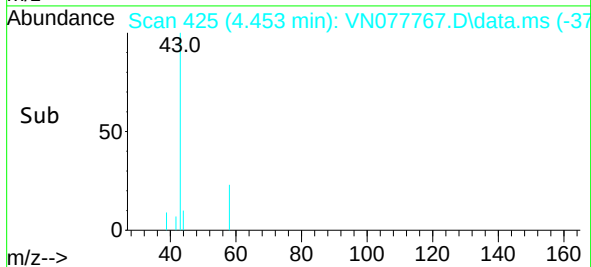
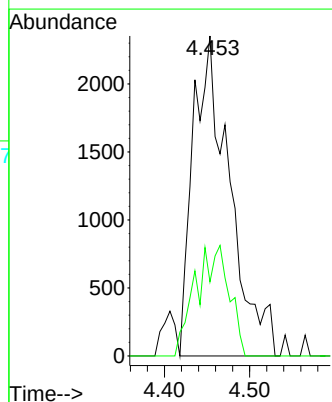
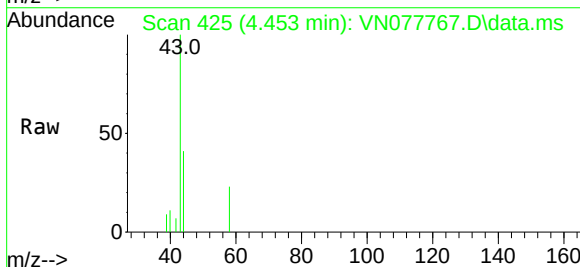
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-98-100

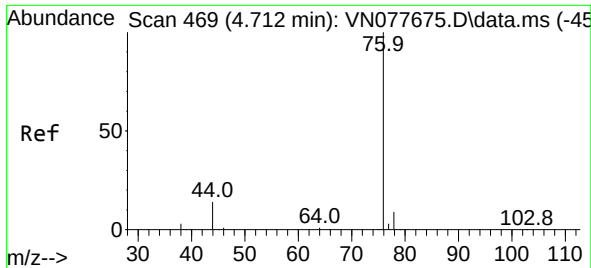
Tgt Ion: 56 Resp: 299  
Ion Ratio Lower Upper  
56 100  
55 23.7 54.5 81.7#



#16  
Acetone  
Concen: 3.944 ug/l  
RT: 4.453 min Scan# 425  
Delta R.T. 0.023 min  
Lab File: VN077767.D  
Acq: 19 May 2023 16:24

Tgt Ion: 43 Resp: 7010  
Ion Ratio Lower Upper  
43 100  
58 23.2 28.0 42.0#

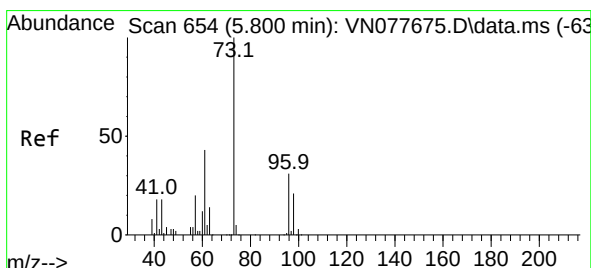
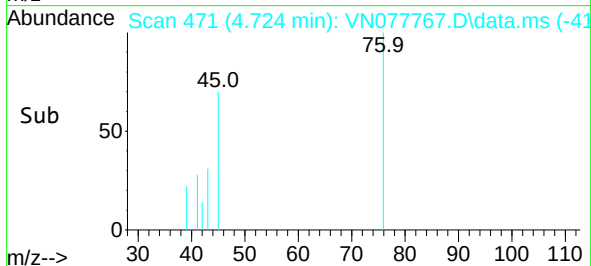
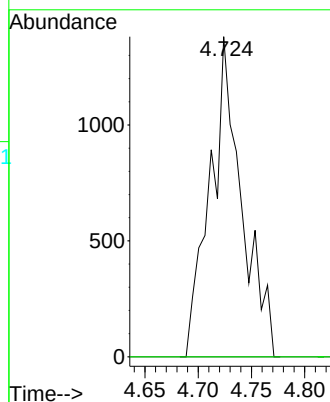
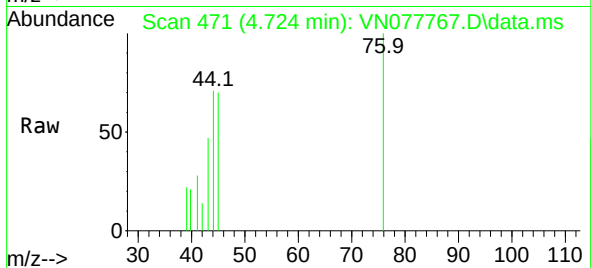




#17  
Carbon Disulfide  
Concen: 0.266 ug/l  
RT: 4.724 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN077767.D  
Acq: 19 May 2023 16:24

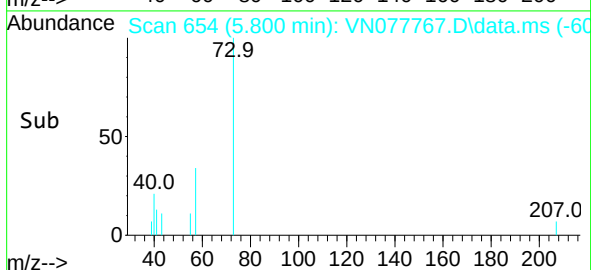
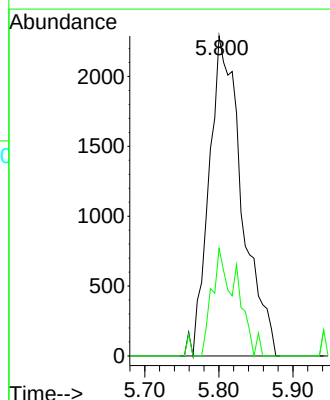
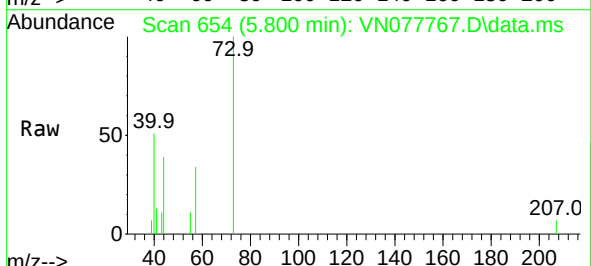
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-98-100

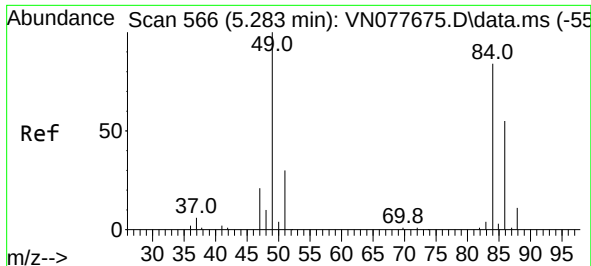
Tgt Ion: 76 Resp: 2851  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#



#19  
Methyl tert-butyl Ether  
Concen: 0.491 ug/l  
RT: 5.800 min Scan# 654  
Delta R.T. 0.000 min  
Lab File: VN077767.D  
Acq: 19 May 2023 16:24

Tgt Ion: 73 Resp: 7061  
Ion Ratio Lower Upper  
73 100  
57 33.6 15.6 23.4#





#20

Methylene Chloride

Concen: Below Cal

RT: 5.289 min Scan# 50

Delta R.T. 0.006 min

Lab File: VN077767.D

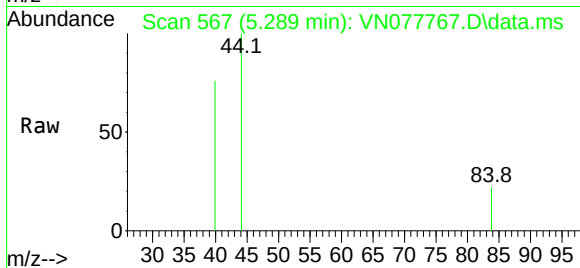
Acq: 19 May 2023 16:24

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-RW11-GW-98-100



Tgt Ion: 84 Resp: 251

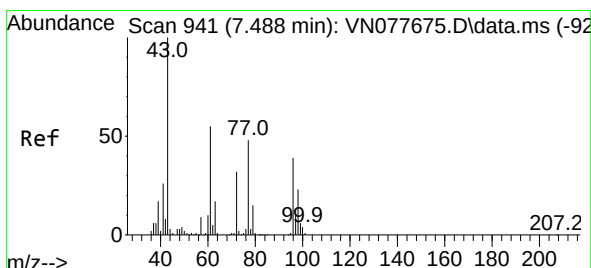
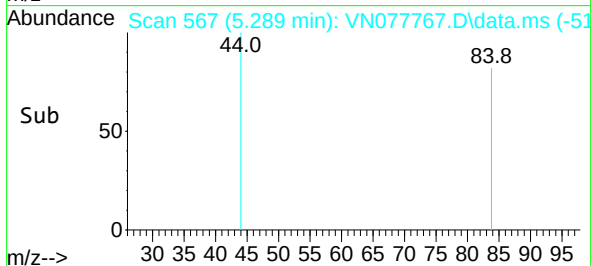
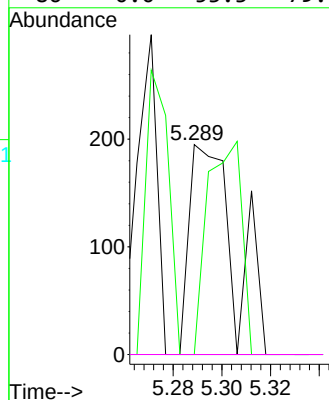
Ion Ratio Lower Upper

84 100

49 0.0 79.7 119.5#

51 0.0 25.2 37.8#

86 0.0 53.3 79.9#



#25

2-Butanone

Concen: 3.331 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.012 min

Lab File: VN077767.D

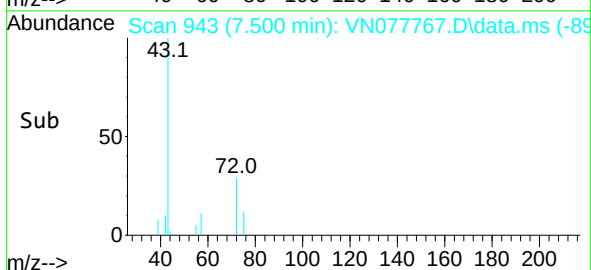
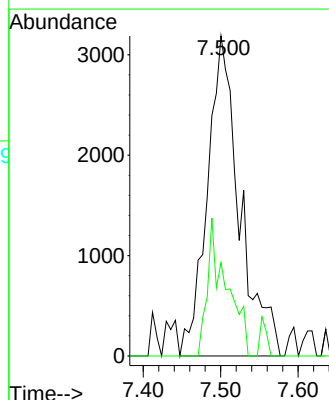
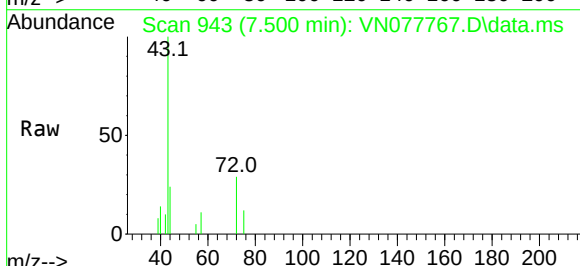
Acq: 19 May 2023 16:24

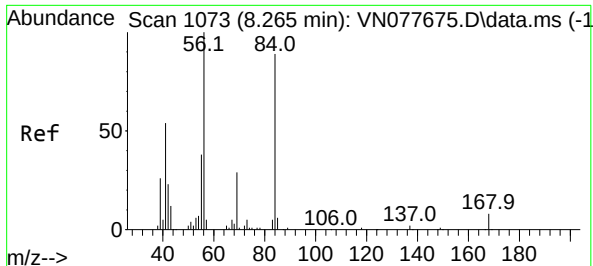
Tgt Ion: 43 Resp: 9261

Ion Ratio Lower Upper

43 100

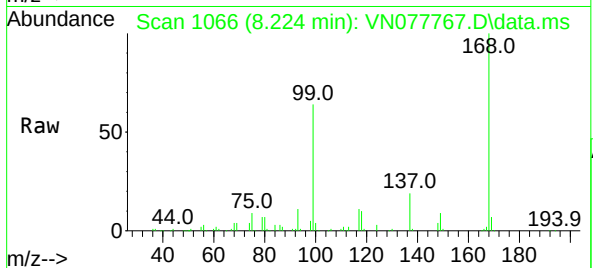
72 29.1 30.2 45.2#



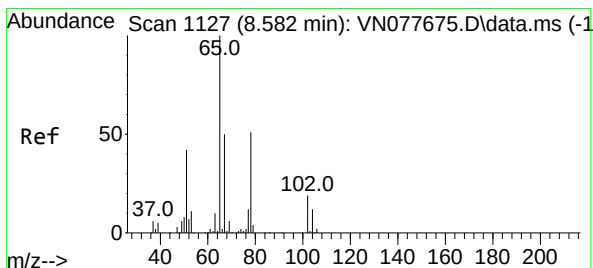
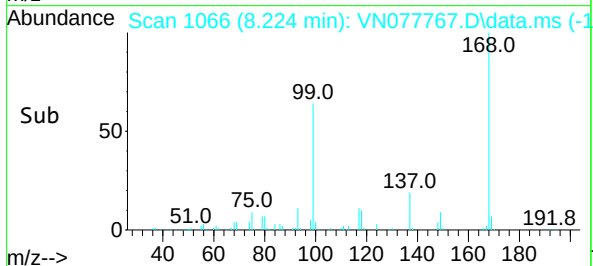
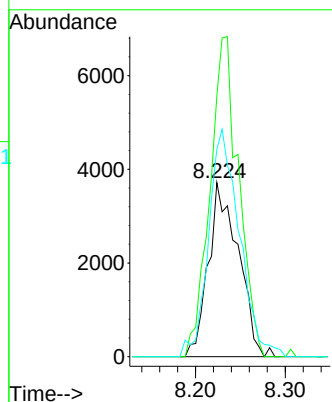


#31  
Cyclohexane  
Concen: 1.119 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.041 min  
Lab File: VN077767.D  
Acq: 19 May 2023 16:24

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-98-100

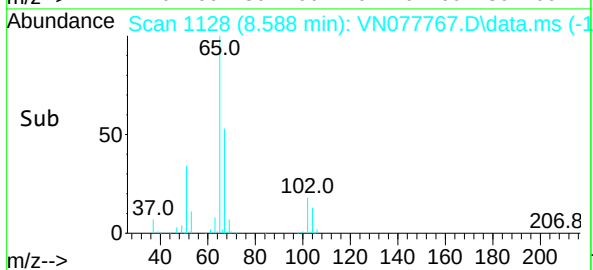
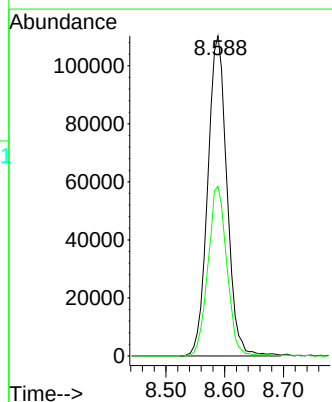
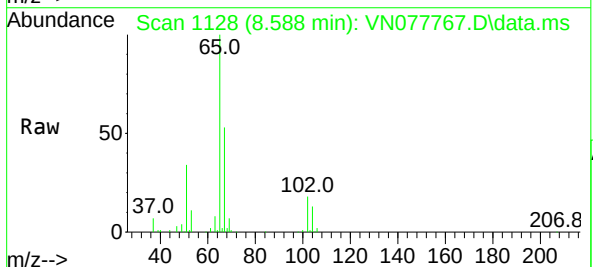


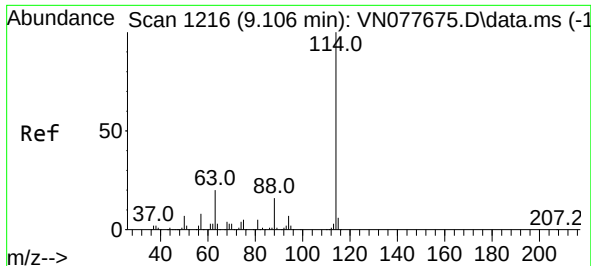
Tgt Ion: 56 Resp: 8595  
Ion Ratio Lower Upper  
56 100  
69 149.8 26.8 40.2#  
84 119.1 81.8 122.6



#33  
1,2-Dichloroethane-d4  
Concen: 44.206 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.006 min  
Lab File: VN077767.D  
Acq: 19 May 2023 16:24

Tgt Ion: 65 Resp: 249730  
Ion Ratio Lower Upper  
65 100  
67 52.2 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: VN07767.D

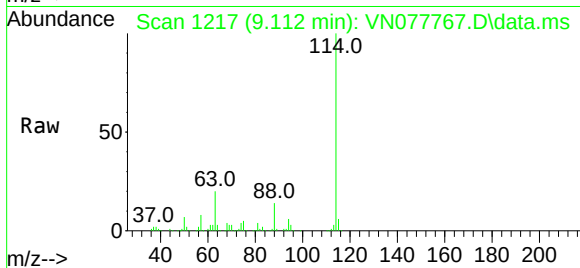
Acq: 19 May 2023 16:24

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-RW11-GW-98-100



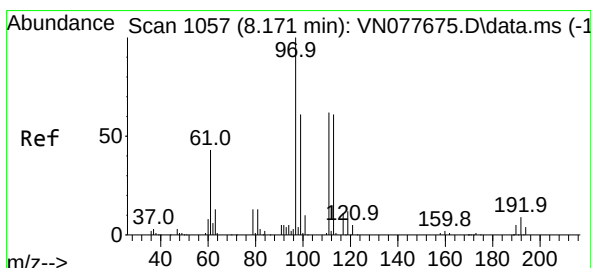
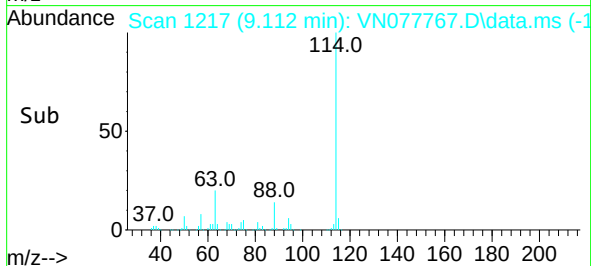
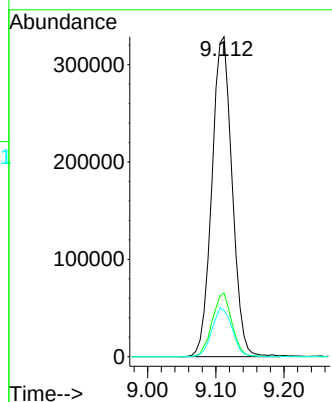
Tgt Ion:114 Resp: 679599

Ion Ratio Lower Upper

114 100

63 19.9 0.0 36.4

88 14.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.991 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN07767.D

Acq: 19 May 2023 16:24

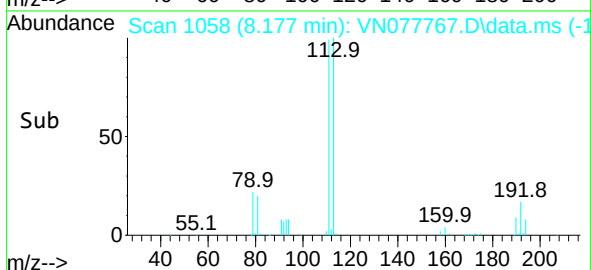
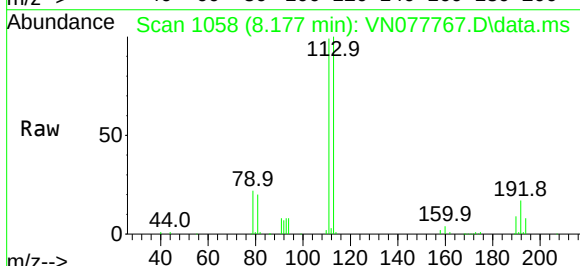
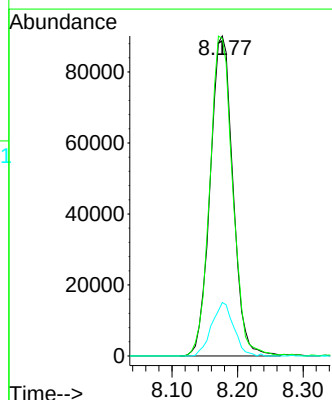
Tgt Ion:113 Resp: 217110

Ion Ratio Lower Upper

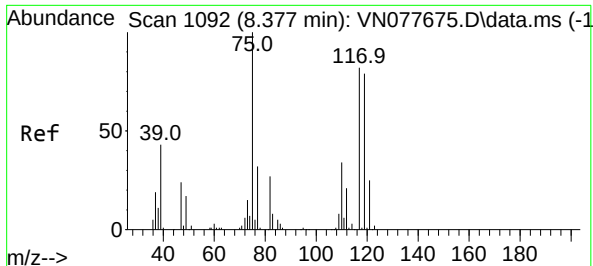
113 100

111 100.1 82.6 123.8

192 16.3 12.7 19.1







#36

1,1-Dichloropropene

Concen: 4.908 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN07767.D

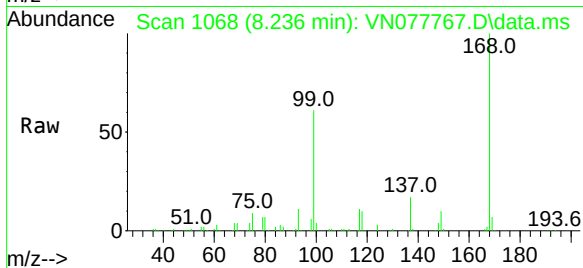
Acq: 19 May 2023 16:24

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-RW11-GW-98-100



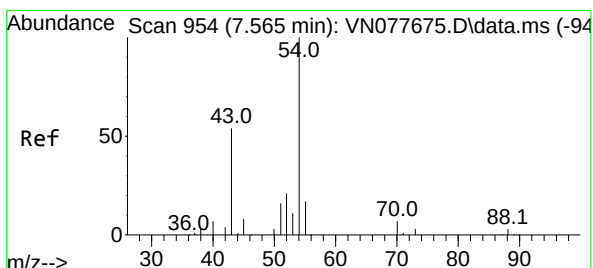
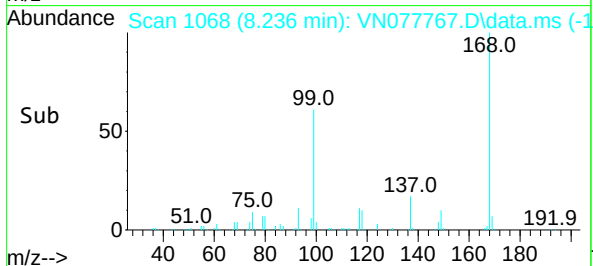
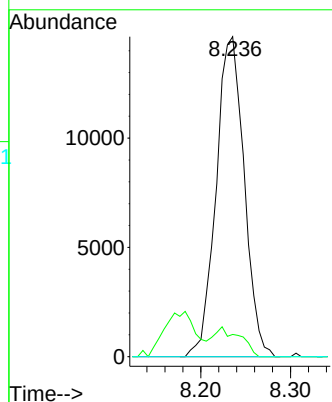
Tgt Ion: 75 Resp: 31815

Ion Ratio Lower Upper

75 100

110 8.9 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.603 ug/l

RT: 7.500 min Scan# 943

Delta R.T. -0.065 min

Lab File: VN07767.D

Acq: 19 May 2023 16:24

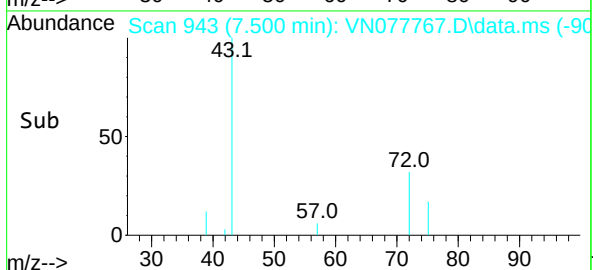
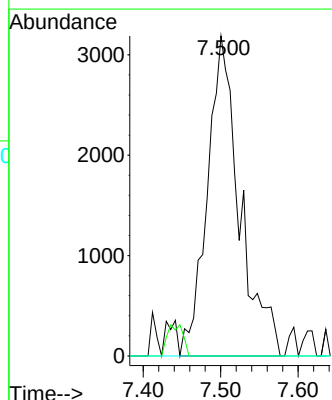
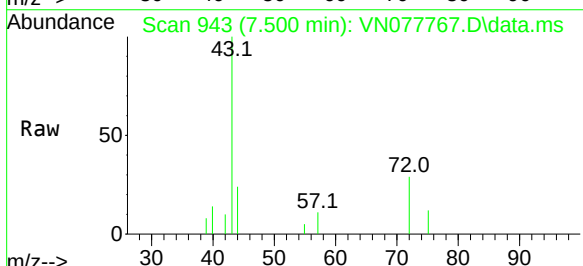
Tgt Ion: 43 Resp: 9261

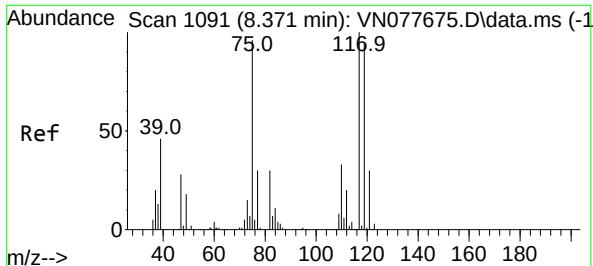
Ion Ratio Lower Upper

43 100

61 0.0 13.2 19.8#

70 0.0 11.3 16.9#

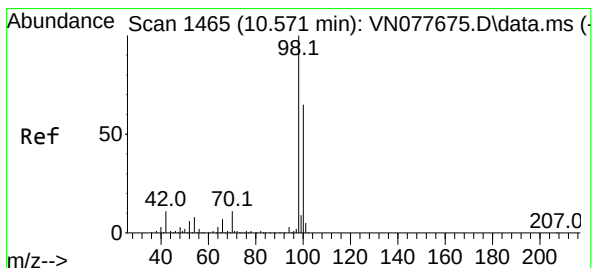
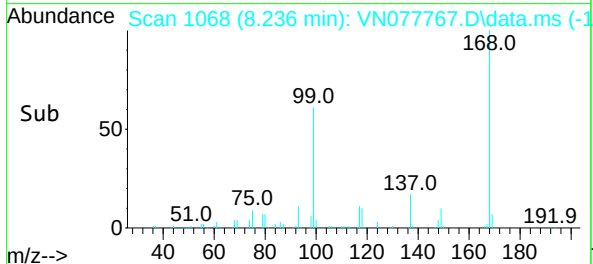
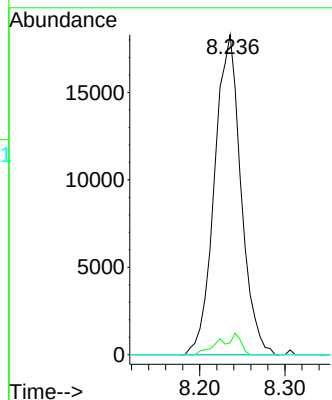
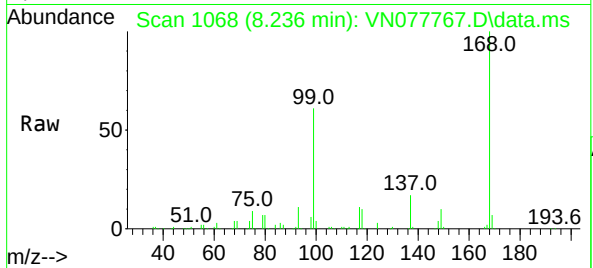




#38  
Carbon Tetrachloride  
Concen: 6.025 ug/l  
RT: 8.236 min Scan# 1091  
Delta R.T. -0.135 min  
Lab File: VN07767.D  
Acq: 19 May 2023 16:24

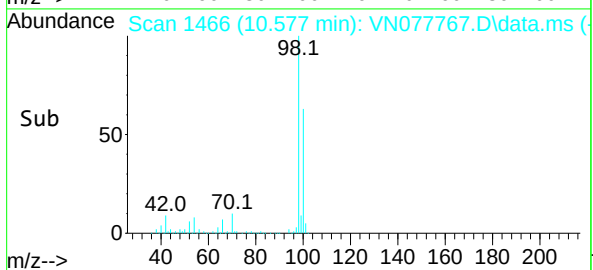
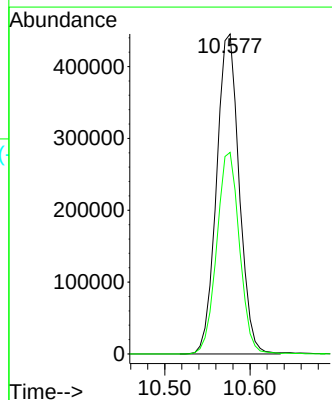
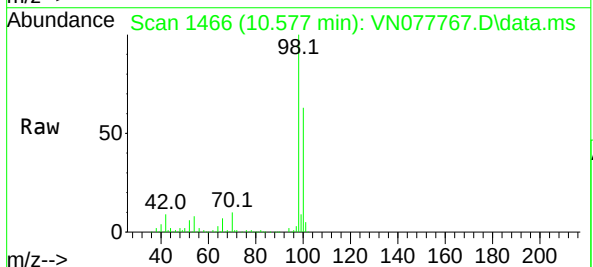
Instrument : MSVOA\_N  
ClientSampleId : BP-VPB-RW11-GW-98-100

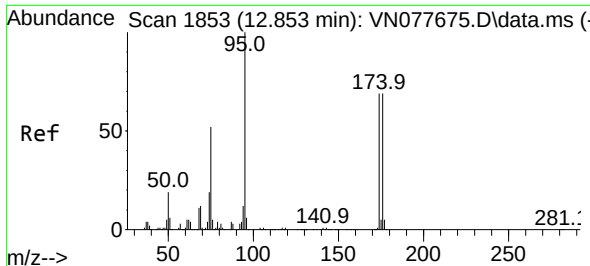
Tgt Ion:117 Resp: 39435  
Ion Ratio Lower Upper  
117 100  
119 3.7 77.3 115.9#  
121 0.0 23.3 34.9#



#50  
Toluene-d8  
Concen: 48.186 ug/l  
RT: 10.577 min Scan# 1466  
Delta R.T. 0.006 min  
Lab File: VN07767.D  
Acq: 19 May 2023 16:24

Tgt Ion: 98 Resp: 821934  
Ion Ratio Lower Upper  
98 100  
100 63.5 52.0 78.0

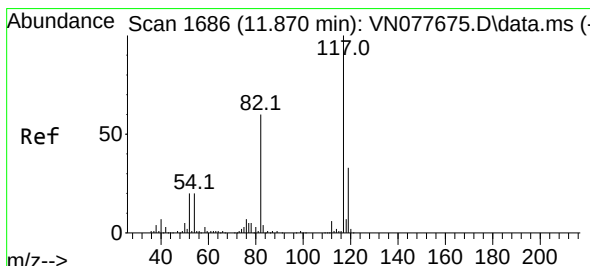
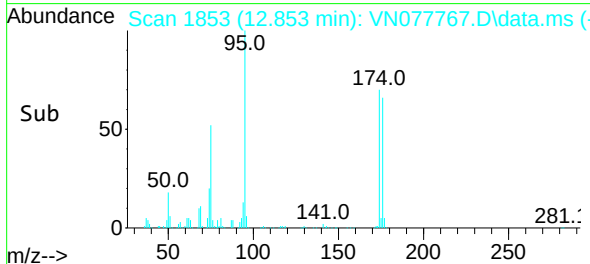
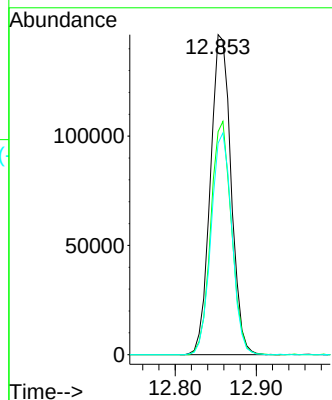
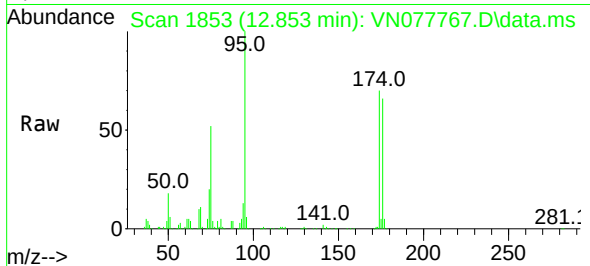




#62  
4-Bromofluorobenzene  
Concen: 42.990 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN077767.D  
Acq: 19 May 2023 16:24

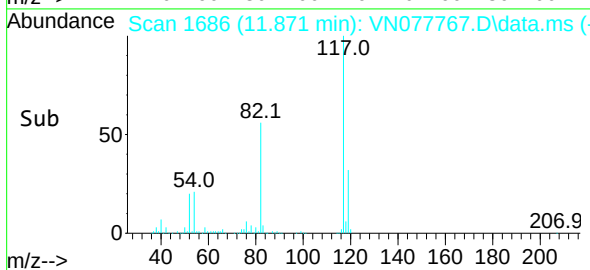
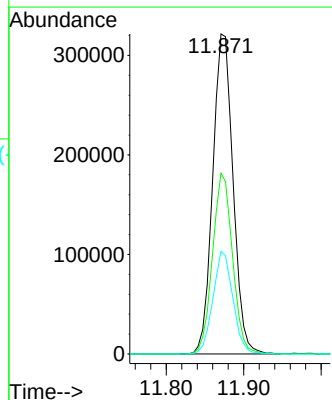
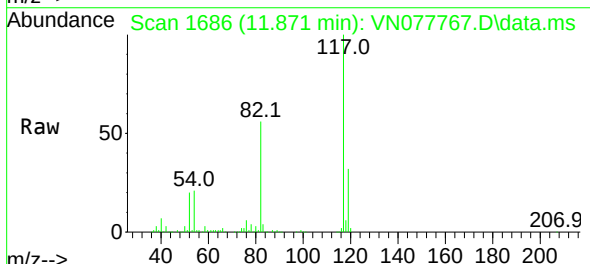
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-98-100

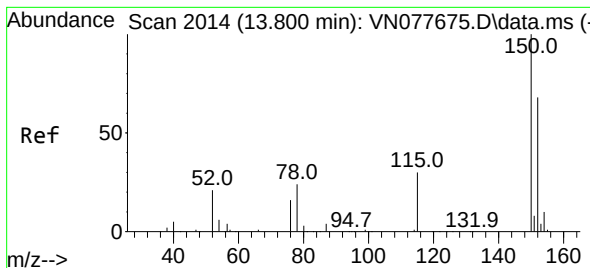
Tgt Ion: 95 Resp: 258988  
Ion Ratio Lower Upper  
95 100  
174 72.6 0.0 143.8  
176 69.3 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.001 min  
Lab File: VN077767.D  
Acq: 19 May 2023 16:24

Tgt Ion: 117 Resp: 586309  
Ion Ratio Lower Upper  
117 100  
82 56.4 44.0 66.0  
119 32.1 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN07767.D

Acq: 19 May 2023 16:24

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-RW11-GW-98-100

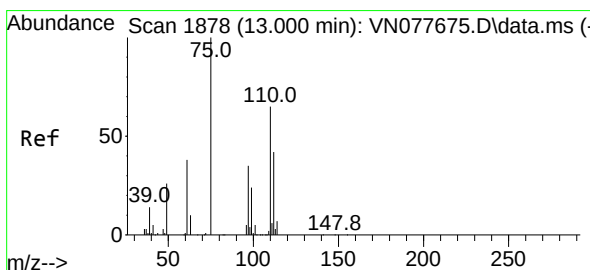
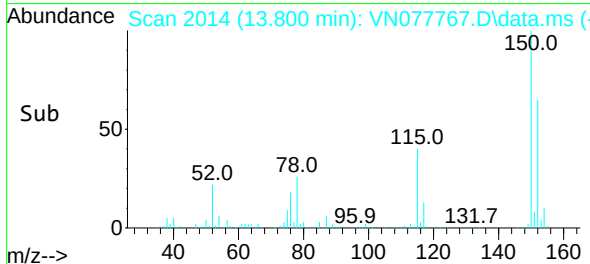
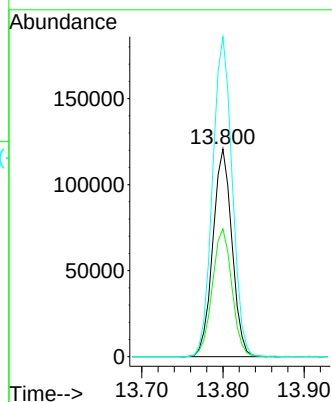
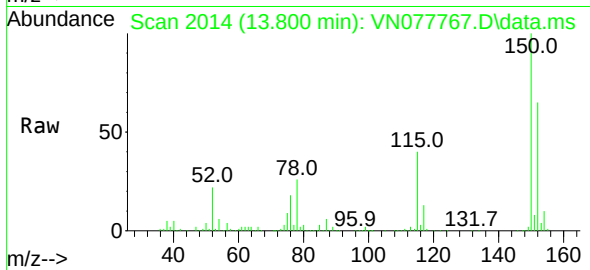
Tgt Ion:152 Resp: 197511

Ion Ratio Lower Upper

152 100

115 63.2 32.3 96.8

150 157.8 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 27.403 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN07767.D

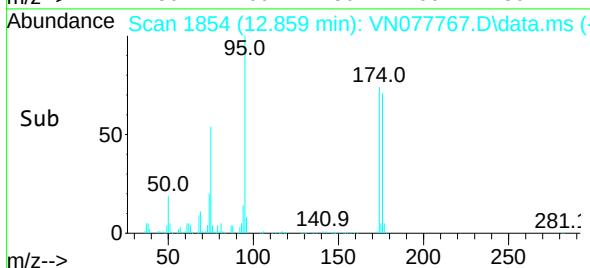
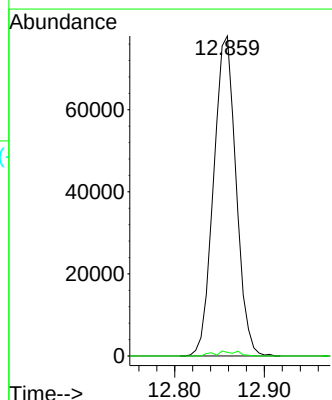
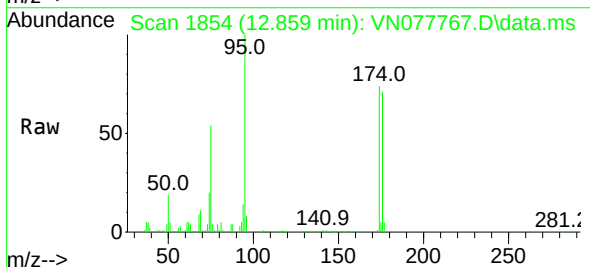
Acq: 19 May 2023 16:24

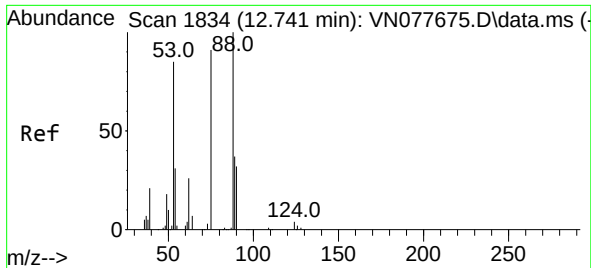
Tgt Ion: 75 Resp: 135547

Ion Ratio Lower Upper

75 100

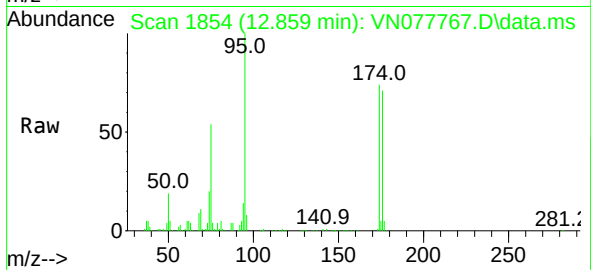
77 1.5 84.5 253.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 87.595 ug/l  
 RT: 12.859 min Scan# 11  
 Delta R.T. 0.118 min  
 Lab File: VN07767.D  
 Acq: 19 May 2023 16:24

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-RW11-GW-98-100



Tgt Ion: 75 Resp: 135547  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 67.4 101.2#  
 89 0.0 38.8 58.2#

