

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX042121\  
 Data File : VX021790.D  
 Acq On : 21 Apr 2021 14:18  
 Operator : JC/MD  
 Sample : M2122-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

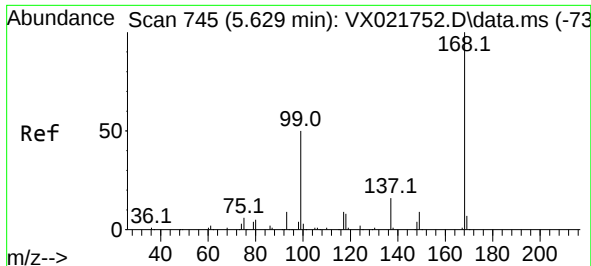
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB-RW8-GW-98-100

Quant Time: Apr 22 08:57:27 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042021W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 20 13:46:22 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.629  | 168   | 173282   | 50.00    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.830  | 114   | 295732   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.092 | 117   | 265736   | 50.00    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.061 | 152   | 126904   | 50.00    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.031  | 65    | 99943    | 50.84    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 101.68%  |
| 35) Dibromofluoromethane      | 5.464  | 113   | 93131    | 49.24    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 98.48%   |
| 50) Toluene-d8                | 8.696  | 98    | 352829   | 48.52    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 97.04%   |
| 62) 4-Bromofluorobenzene      | 11.122 | 95    | 127616   | 46.99    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 93.98%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.319  | 50    | 1144     | 0.82     | ug/l   | 95       |
| 5) Bromomethane               | 1.642  | 94    | 181      | 0.21     | ug/l # | 54       |
| 12) 1,1-Dichloroethene        | 2.355  | 96    | 1021     | 0.64     | ug/l   | 92       |
| 13) Acrolein                  | 2.233  | 56    | 90       | 0.26     | ug/l # | 74       |
| 14) Allyl chloride            | 2.581  | 41    | 6178     | 2.40     | ug/l # | 49       |
| 16) Acetone                   | 2.422  | 43    | 2270     | 3.36     | ug/l   | 98       |
| 18) Methyl Acetate            | 2.581  | 43    | 16188    | 8.83     | ug/l # | 47       |
| 19) Methyl tert-butyl Ether   | 3.166  | 73    | 3043     | 0.55     | ug/l # | 69       |
| 20) Methylene Chloride        | 2.831  | 84    | 453      | 0.22     | ug/l   | 90       |
| 24) 1,1-Dichloroethane        | 3.672  | 63    | 6699     | 2.19     | ug/l   | 97       |
| 25) 2-Butanone                | 4.672  | 43    | 812      | 0.71     | ug/l # | 45       |
| 27) cis-1,2-Dichloroethene    | 4.574  | 96    | 2929     | 1.40     | ug/l   | 78       |
| 30) Chloroform                | 5.172  | 83    | 866      | 0.26     | ug/l # | 75       |
| 31) Cyclohexane               | 5.623  | 56    | 2954     | 1.07     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.629  | 75    | 12012    | 4.60     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.629  | 117   | 16625    | 5.82     | ug/l # | 17       |
| 64) Tetrachloroethene         | 9.317  | 164   | 2789     | 1.34     | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane    | 11.116 | 75    | 57853    | 22.99    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.116 | 75    | 57853    | 52.86    | ug/l # | 12       |
| -----                         |        |       |          |          |        |          |

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

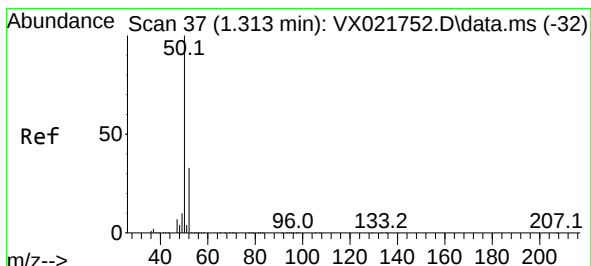
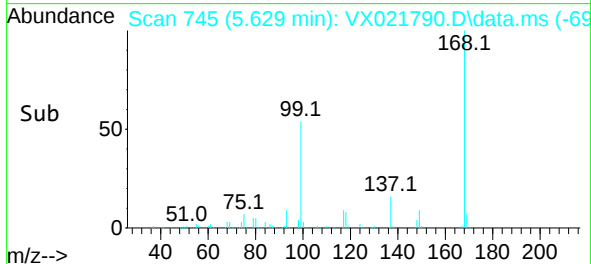
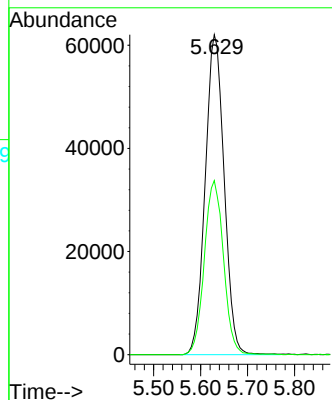
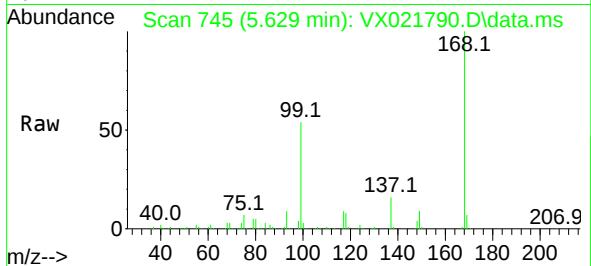




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. 0.000 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

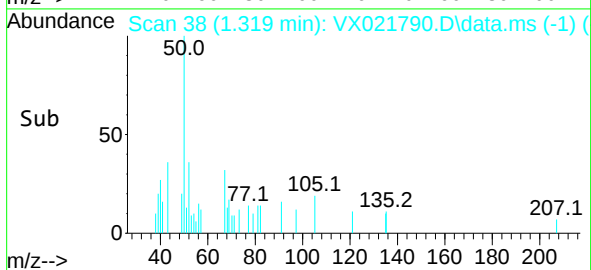
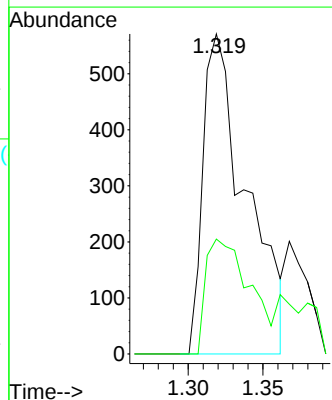
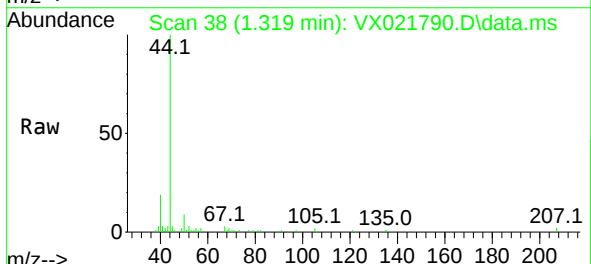
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-GW-98-100

Tgt Ion:168 Resp: 173282  
Ion Ratio Lower Upper  
168 100  
99 54.4 45.8 68.6



#3  
Chloromethane  
Concen: 0.82 ug/l  
RT: 1.319 min Scan# 38  
Delta R.T. 0.006 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

Tgt Ion: 50 Resp: 1144  
Ion Ratio Lower Upper  
50 100  
52 35.9 26.4 39.6

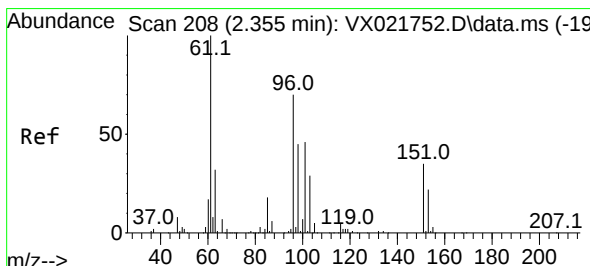
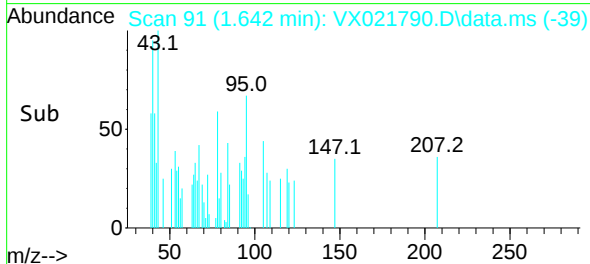
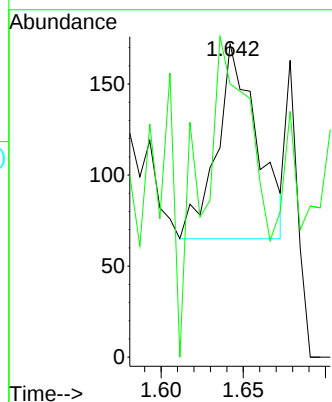
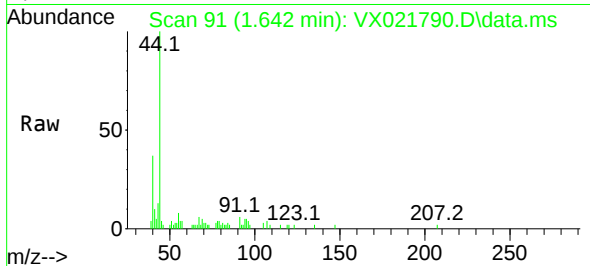




#5  
Bromomethane  
Concen: 0.21 ug/l  
RT: 1.642 min Scan# 91  
Delta R.T. 0.019 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

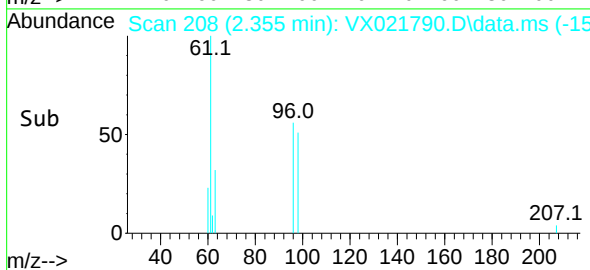
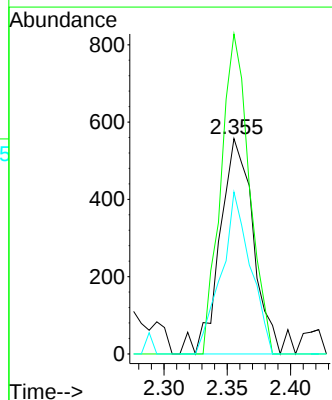
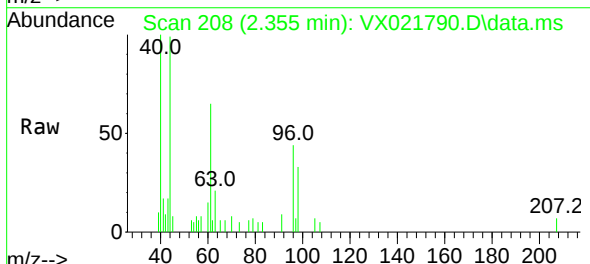
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-GW-98-100

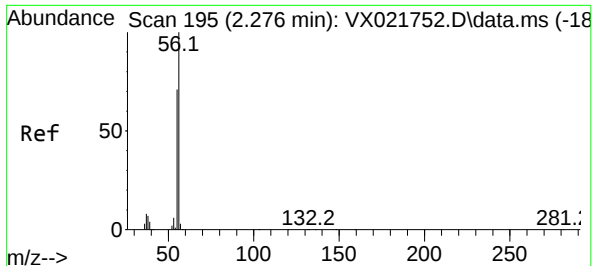
Tgt Ion: 94 Resp: 181  
Ion Ratio Lower Upper  
94 100  
96 140.2 76.4 114.6#



#12  
1,1-Dichloroethene  
Concen: 0.64 ug/l  
RT: 2.355 min Scan# 208  
Delta R.T. 0.000 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

Tgt Ion: 96 Resp: 1021  
Ion Ratio Lower Upper  
96 100  
61 148.7 124.6 187.0  
98 75.2 50.6 76.0

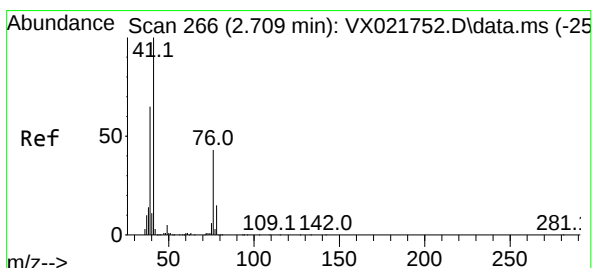
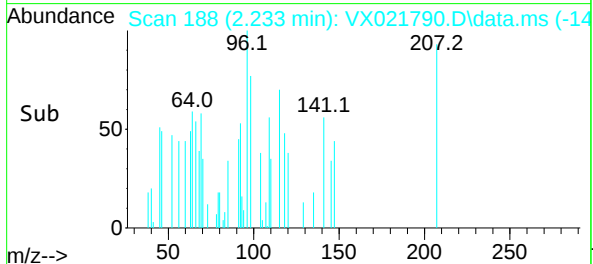
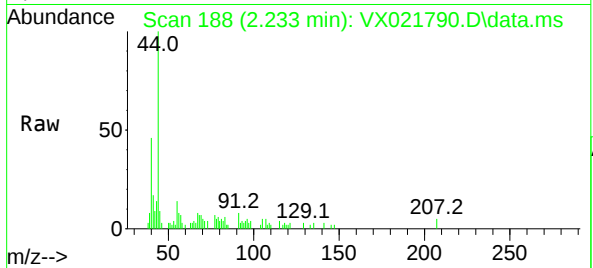




#13  
Acrolein  
Concen: 0.26 ug/l  
RT: 2.233 min Scan# 188  
Delta R.T. -0.043 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

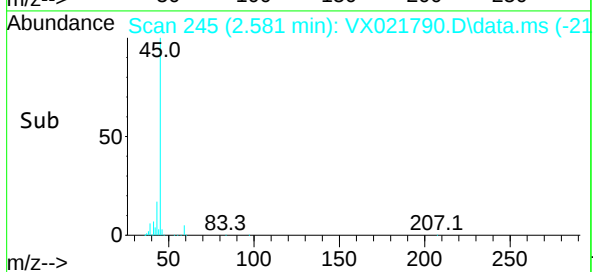
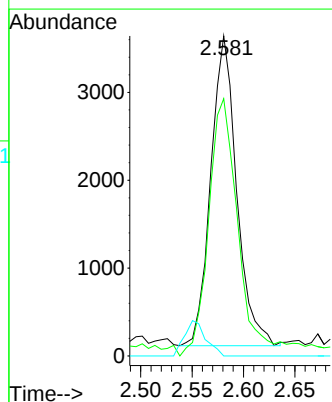
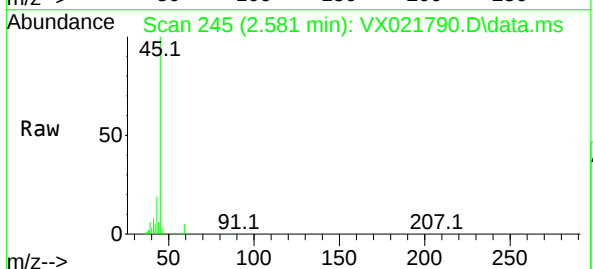
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-GW-98-100

Tgt Ion: 56 Resp: 90  
Ion Ratio Lower Upper  
56 100  
55 92.2 56.4 84.6#



#14  
Allyl chloride  
Concen: 2.40 ug/l  
RT: 2.581 min Scan# 245  
Delta R.T. -0.128 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

Tgt Ion: 41 Resp: 6178  
Ion Ratio Lower Upper  
41 100  
39 98.5 51.6 77.4#  
76 0.0 30.5 45.7#

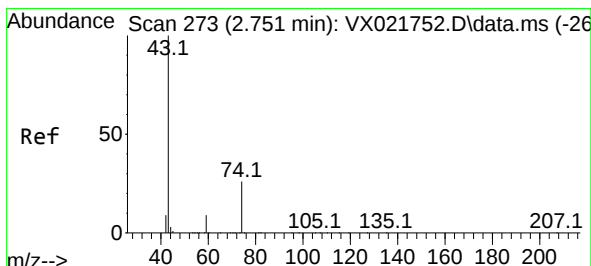
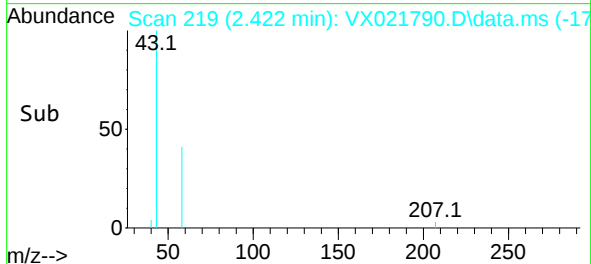
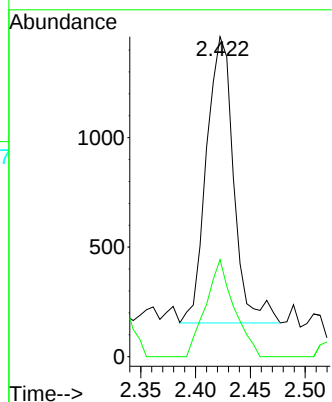
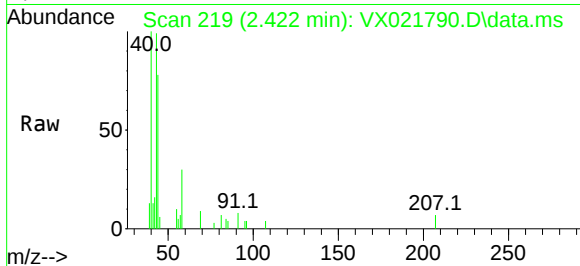




#16  
Acetone  
Concen: 3.36 ug/l  
RT: 2.422 min Scan# 219  
Delta R.T. 0.000 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

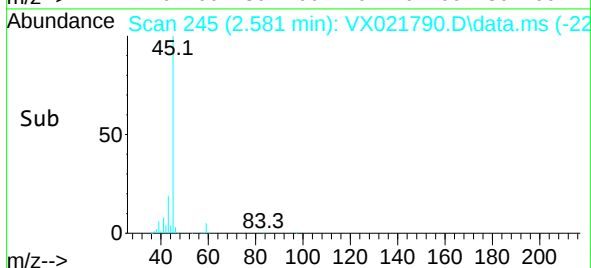
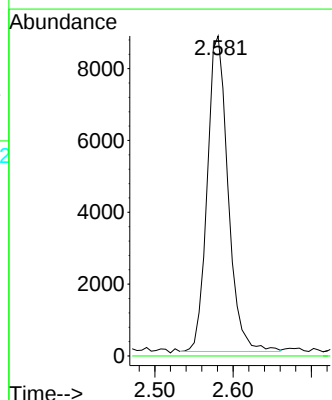
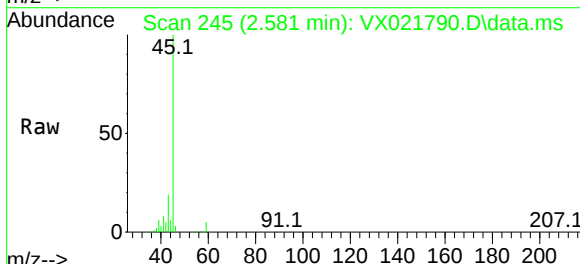
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-GW-98-100

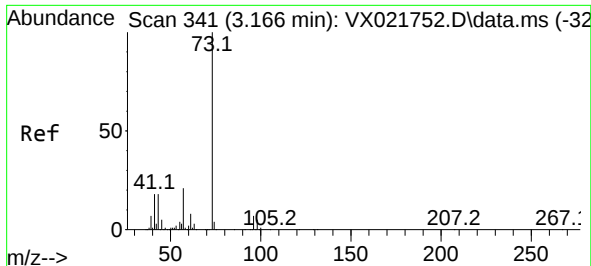
Tgt Ion: 43 Resp: 2270  
Ion Ratio Lower Upper  
43 100  
58 33.9 27.8 41.8



#18  
Methyl Acetate  
Concen: 8.83 ug/l  
RT: 2.581 min Scan# 245  
Delta R.T. -0.170 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

Tgt Ion: 43 Resp: 16188  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.9 32.9#

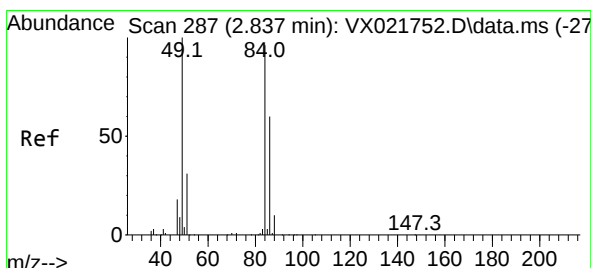
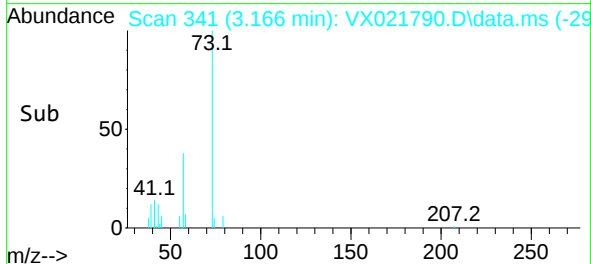
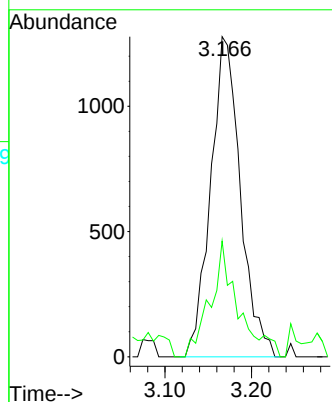
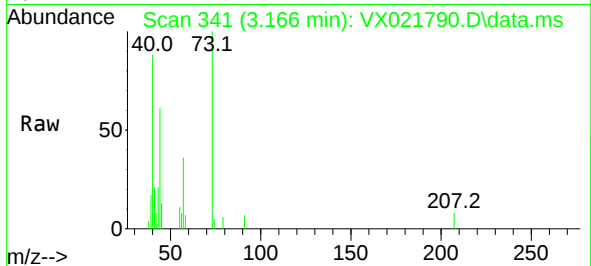




#19  
Methyl tert-butyl Ether  
Concen: 0.55 ug/l  
RT: 3.166 min Scan# 341  
Delta R.T. 0.000 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

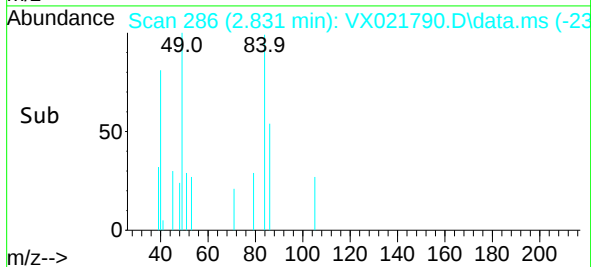
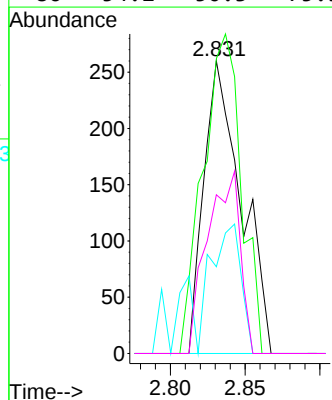
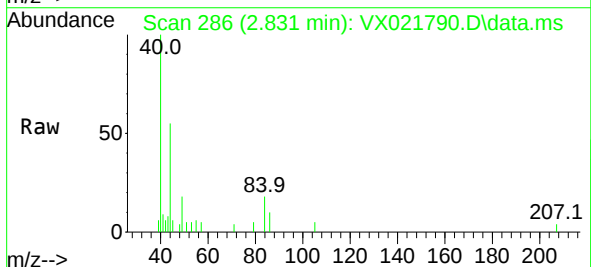
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-GW-98-100

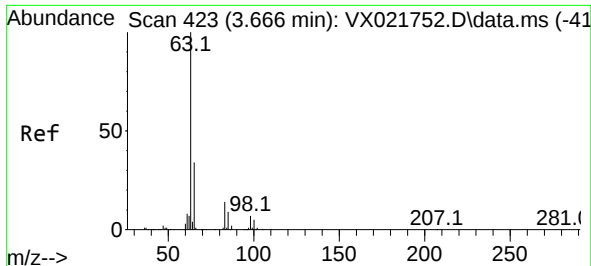
Tgt Ion: 73 Resp: 3043  
Ion Ratio Lower Upper  
73 100  
57 36.2 17.1 25.7#



#20  
Methylene Chloride  
Concen: 0.22 ug/l  
RT: 2.831 min Scan# 286  
Delta R.T. -0.006 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

Tgt Ion: 84 Resp: 453  
Ion Ratio Lower Upper  
84 100  
49 100.8 88.6 132.8  
51 29.6 27.0 40.6  
86 54.2 50.3 75.5

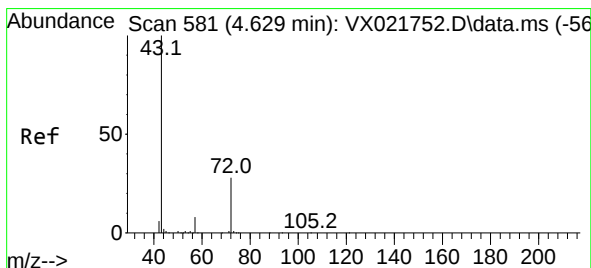
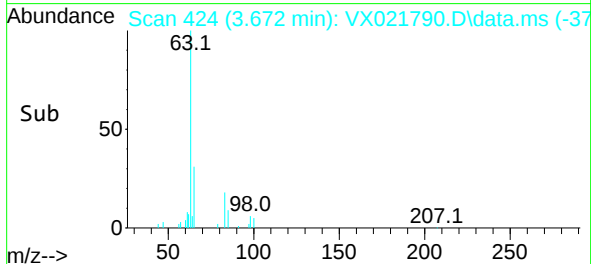
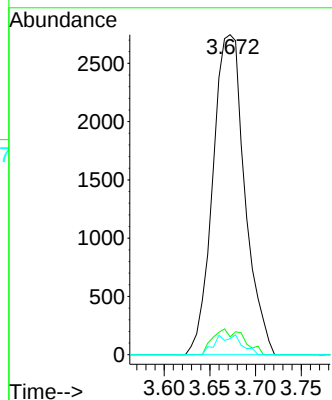
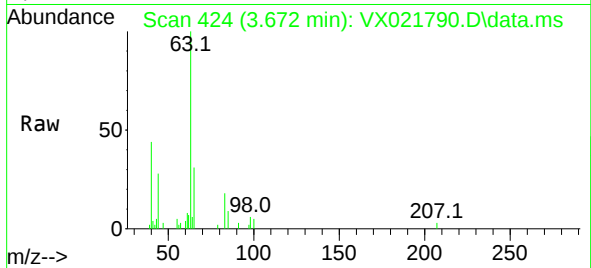




#24  
1,1-Dichloroethane  
Concen: 2.19 ug/l  
RT: 3.672 min Scan# 424  
Delta R.T. 0.006 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

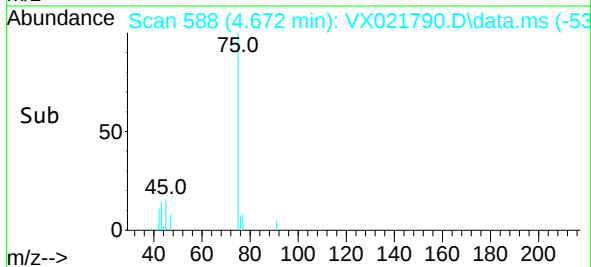
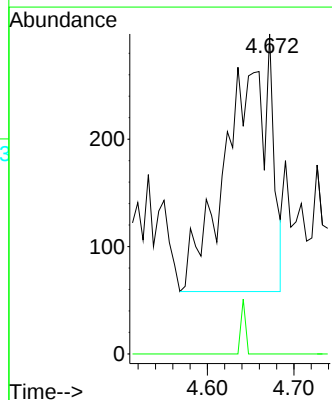
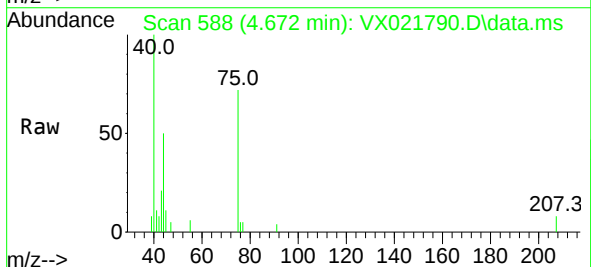
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-GW-98-100

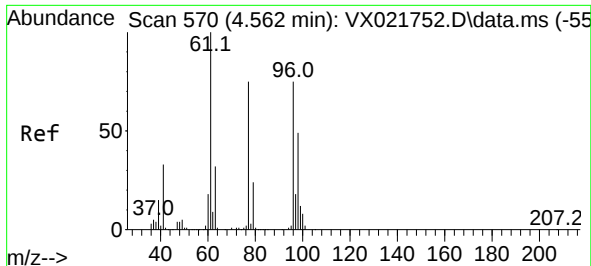
Tgt Ion: 63 Resp: 6699  
Ion Ratio Lower Upper  
63 100  
98 5.6 3.8 11.2  
100 5.0 2.5 7.5



#25  
2-Butanone  
Concen: 0.71 ug/l  
RT: 4.672 min Scan# 588  
Delta R.T. 0.043 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

Tgt Ion: 43 Resp: 812  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.7 35.5#





#27

cis-1,2-Dichloroethene

Concen: 1.40 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.012 min

Lab File: VX021790.D

Acq: 21 Apr 2021 14:18

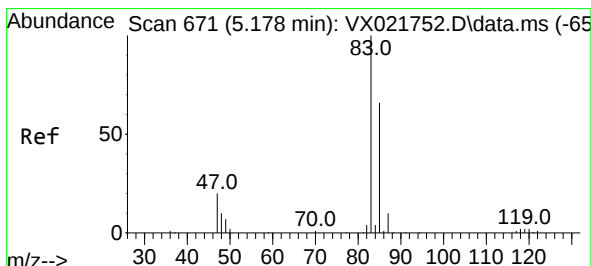
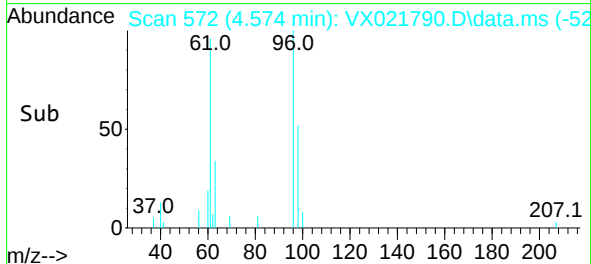
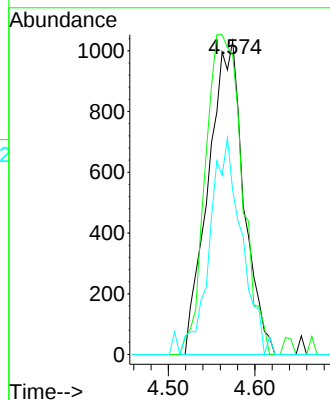
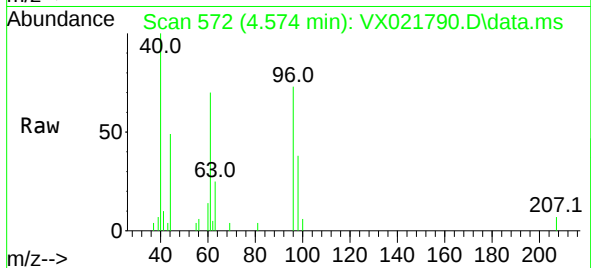
Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW8-GW-98-100

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 2929  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 106.0 | 0.0   | 285.6 |
| 98       | 61.8  | 0.0   | 129.6 |



#30

Chloroform

Concen: 0.26 ug/l

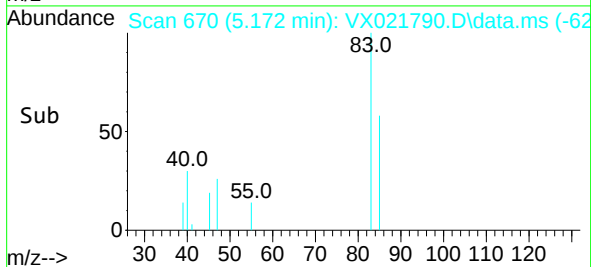
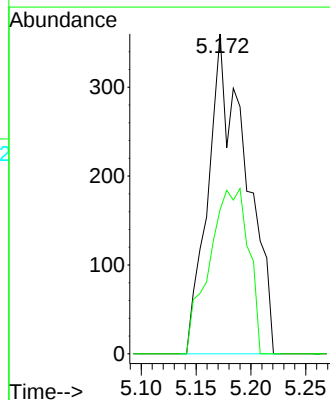
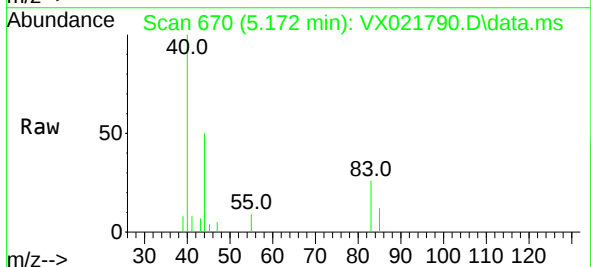
RT: 5.172 min Scan# 670

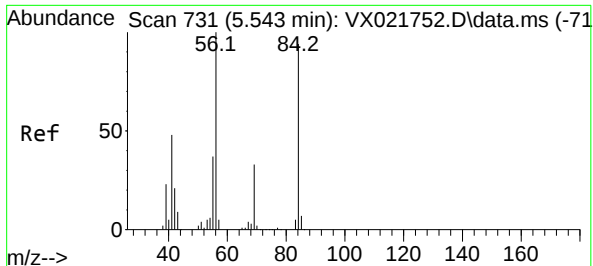
Delta R.T. -0.006 min

Lab File: VX021790.D

Acq: 21 Apr 2021 14:18

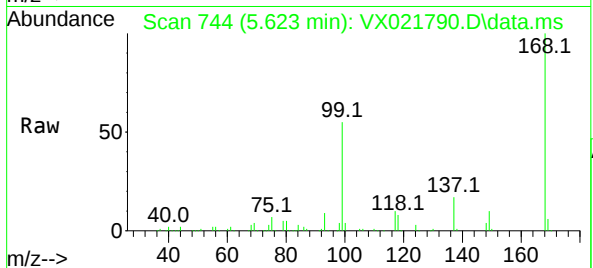
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 866   |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 45.0  | 52.0  | 78.0# |



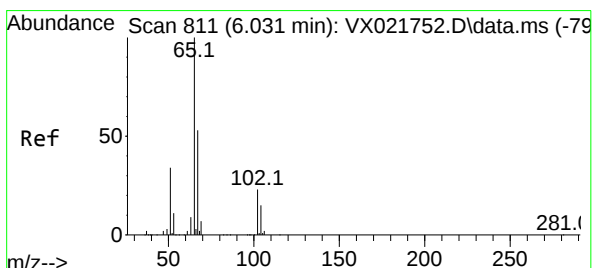
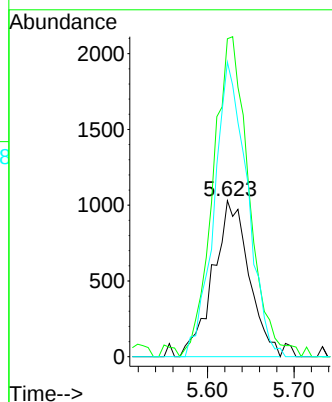
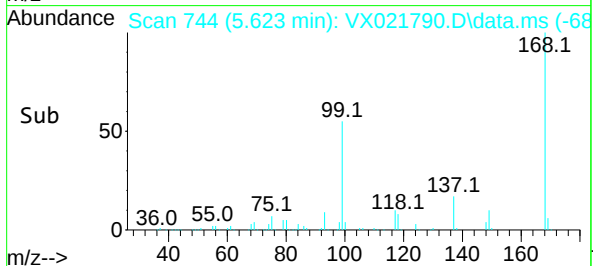


#31  
Cyclohexane  
Concen: 1.07 ug/l  
RT: 5.623 min Scan# 744  
Delta R.T. 0.080 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

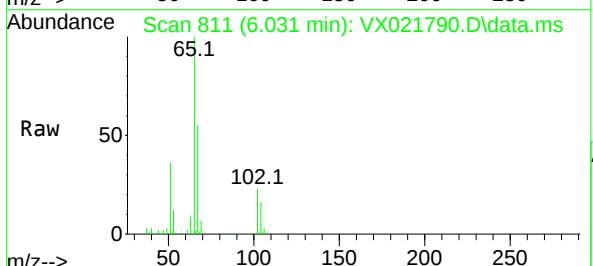
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-GW-98-100



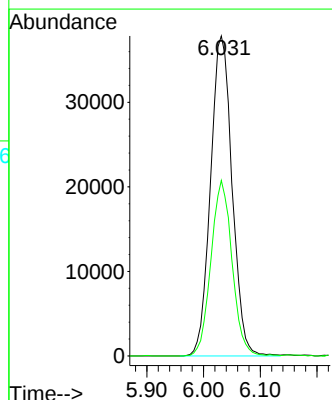
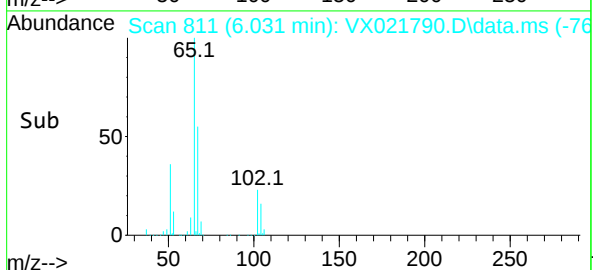
Tgt Ion: 56 Resp: 2954  
Ion Ratio Lower Upper  
56 100  
69 203.7 25.3 37.9#  
84 188.7 71.4 107.0#

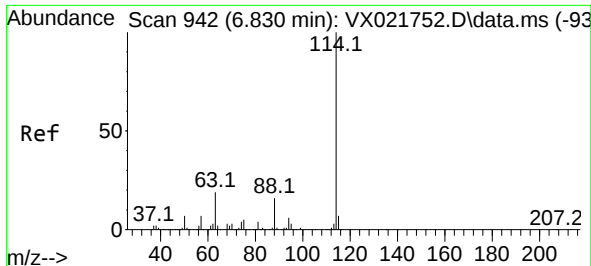


#33  
1,2-Dichloroethane-d4  
Concen: 50.84 ug/l  
RT: 6.031 min Scan# 811  
Delta R.T. 0.000 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18



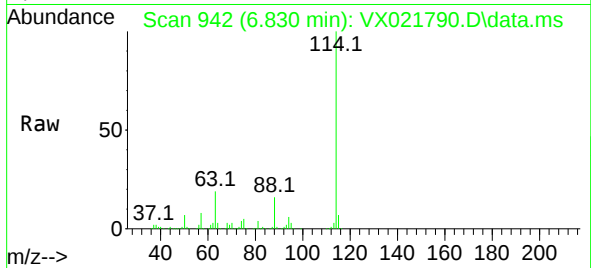
Tgt Ion: 65 Resp: 99943  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 105.4



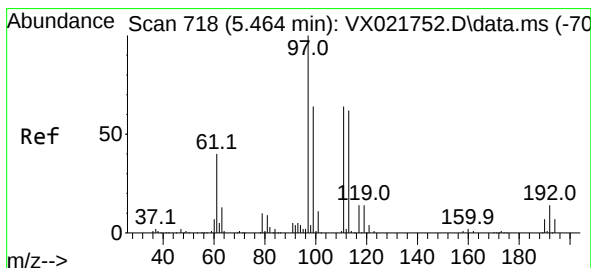
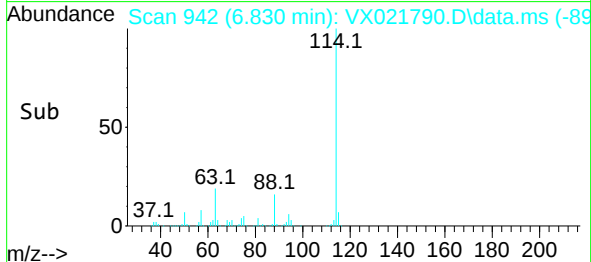
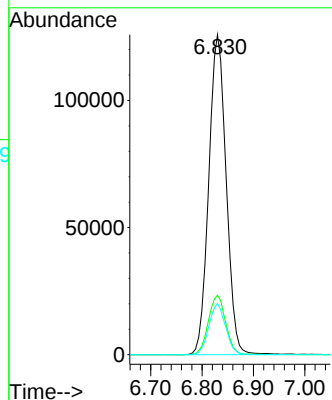


#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.830 min Scan# 942  
Delta R.T. 0.000 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-GW-98-100

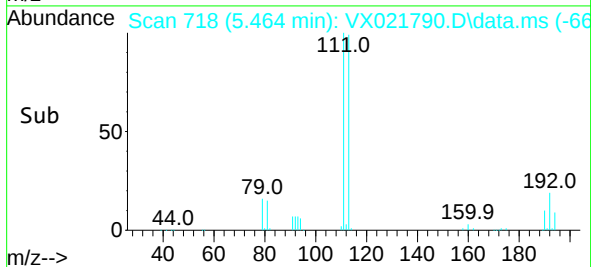
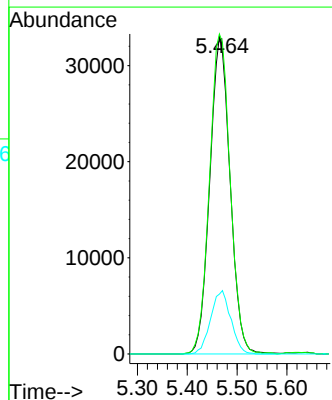
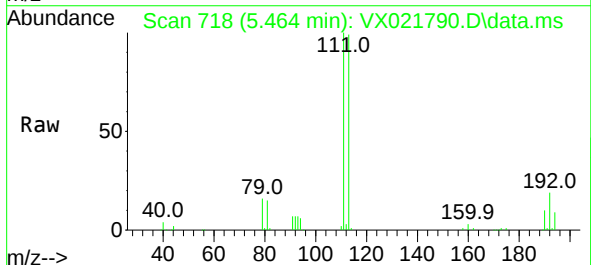


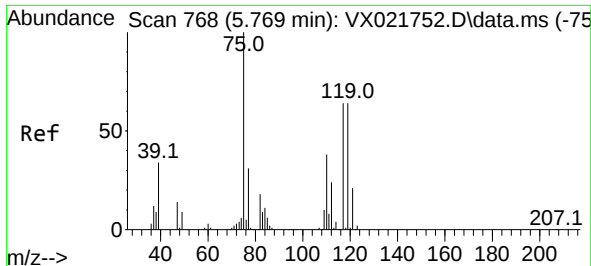
Tgt Ion:114 Resp: 295732  
Ion Ratio Lower Upper  
114 100  
63 18.6 0.0 40.8  
88 16.0 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 49.24 ug/l  
RT: 5.464 min Scan# 718  
Delta R.T. 0.000 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

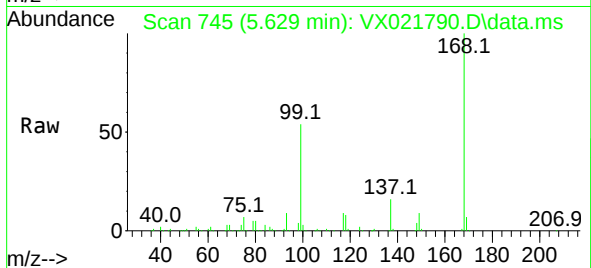
Tgt Ion:113 Resp: 93131  
Ion Ratio Lower Upper  
113 100  
111 102.8 81.9 122.9  
192 19.9 16.7 25.1



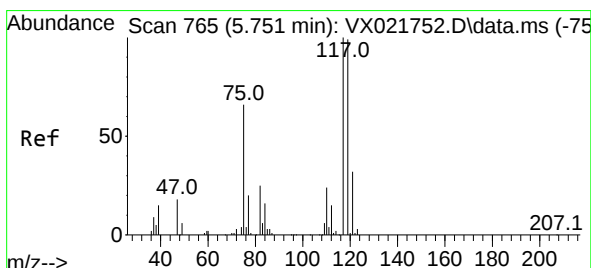
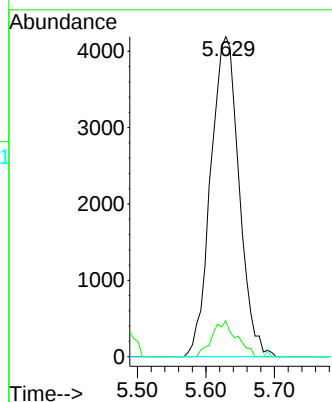
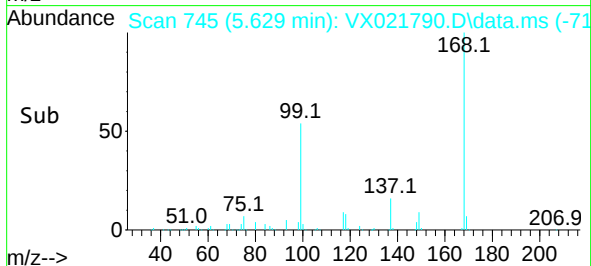


#36  
1,1-Dichloropropene  
Concen: 4.60 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.140 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

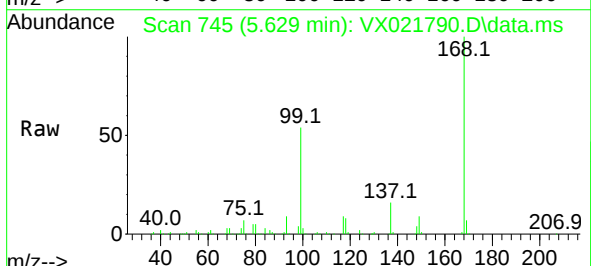
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-GW-98-100



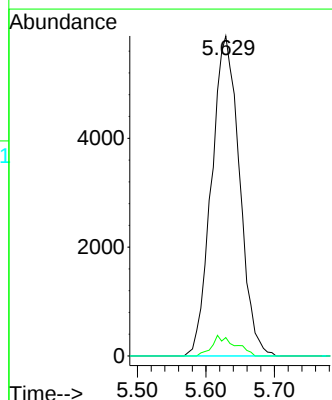
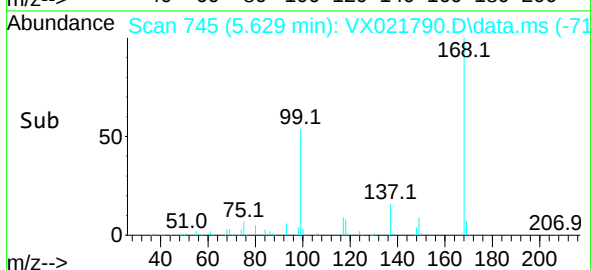
Tgt Ion: 75 Resp: 12012  
Ion Ratio Lower Upper  
75 100  
110 9.7 18.1 54.4#  
77 0.0 25.3 37.9#

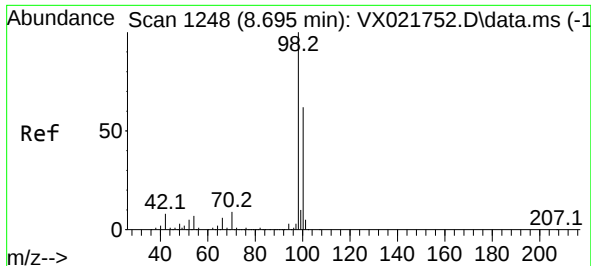


#38  
Carbon Tetrachloride  
Concen: 5.82 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.122 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18



Tgt Ion: 117 Resp: 16625  
Ion Ratio Lower Upper  
117 100  
119 5.7 76.2 114.2#  
121 0.0 24.8 37.2#

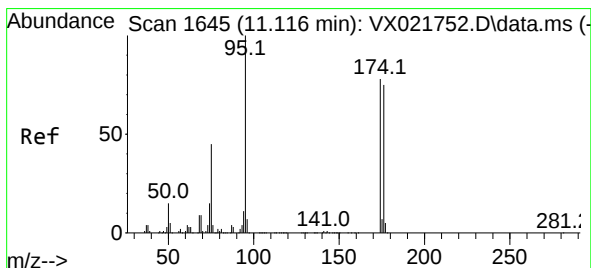
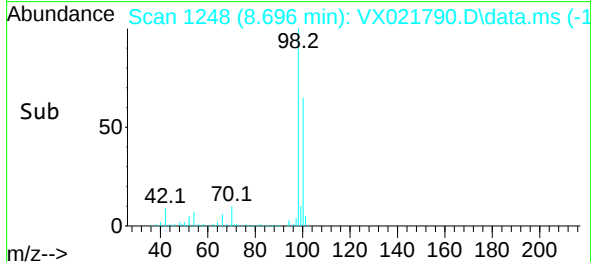
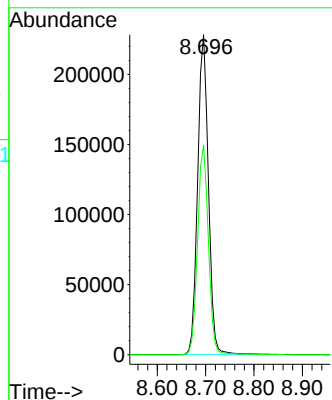
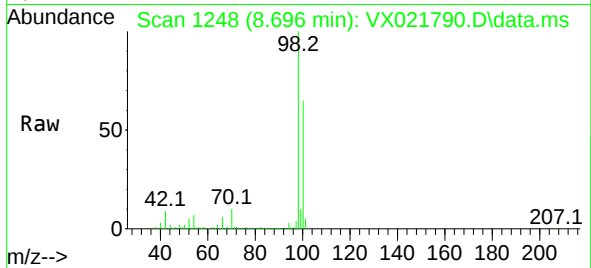




#50  
Toluene-d8  
Concen: 48.52 ug/l  
RT: 8.696 min Scan# 1248  
Delta R.T. 0.001 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

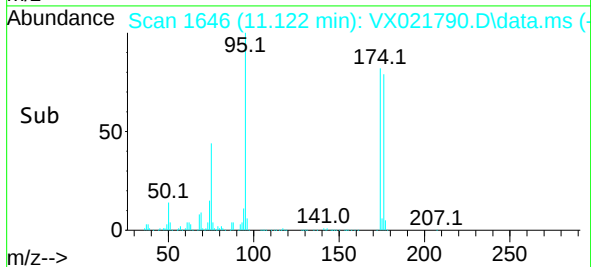
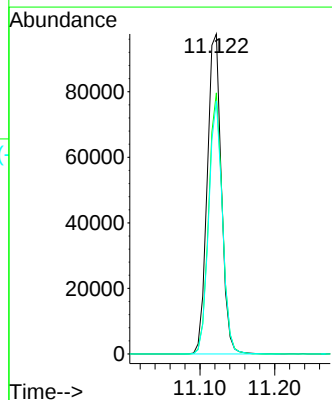
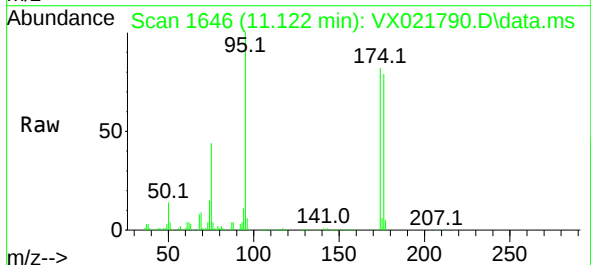
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-GW-98-100

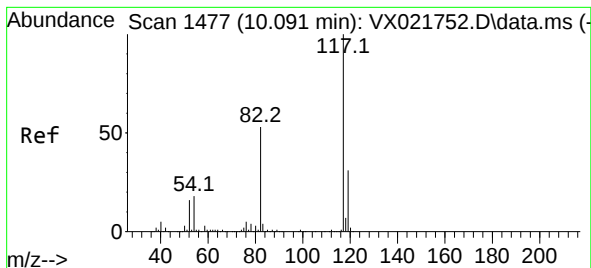
Tgt Ion: 98 Resp: 352829  
Ion Ratio Lower Upper  
98 100  
100 65.9 51.9 77.9



#62  
4-Bromofluorobenzene  
Concen: 46.99 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. 0.006 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

Tgt Ion: 95 Resp: 127616  
Ion Ratio Lower Upper  
95 100  
174 79.2 0.0 154.6  
176 76.8 0.0 155.8

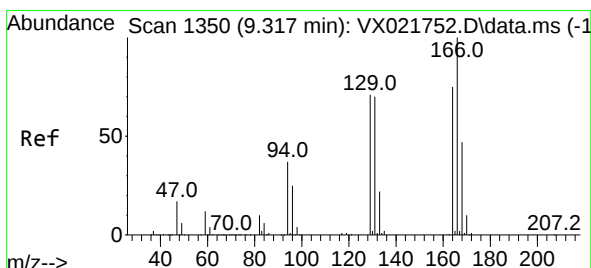
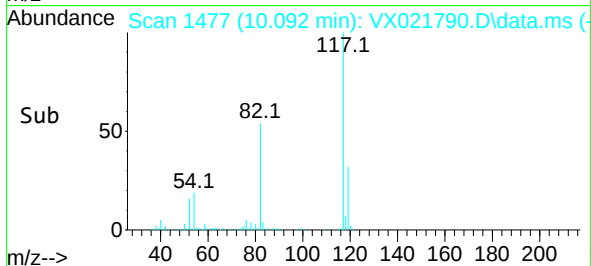
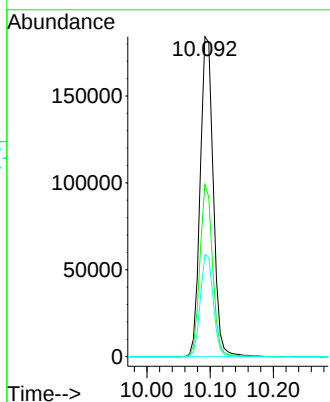
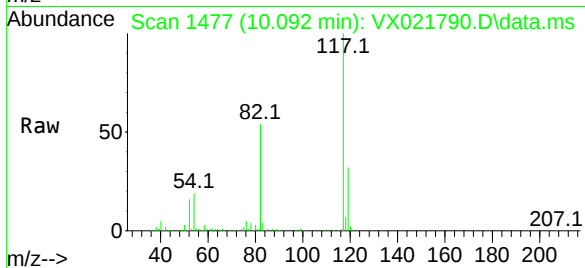




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.092 min Scan# 1477  
Delta R.T. 0.001 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

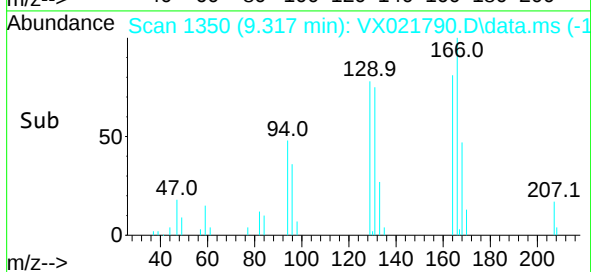
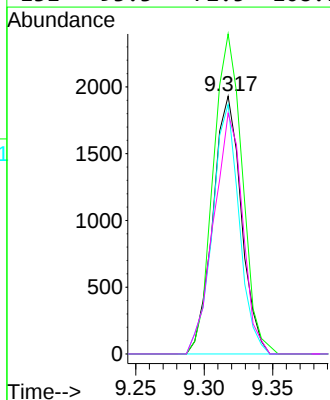
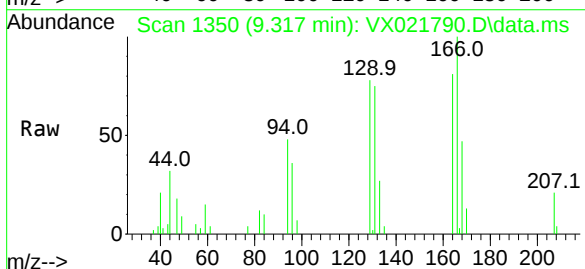
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-GW-98-100

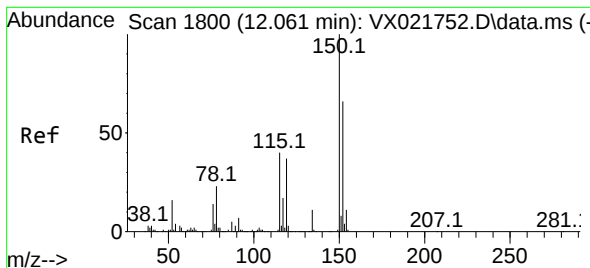
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 265736 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 53.8  | 47.4  | 71.2   |
| 119      | 31.9  | 26.6  | 39.8   |



#64  
Tetrachloroethene  
Concen: 1.34 ug/l  
RT: 9.317 min Scan# 1350  
Delta R.T. 0.000 min  
Lab File: VX021790.D  
Acq: 21 Apr 2021 14:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 2789  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 166      | 124.1 | 103.4 | 155.2 |
| 129      | 96.8  | 70.8  | 106.2 |
| 131      | 93.3  | 72.5  | 108.7 |

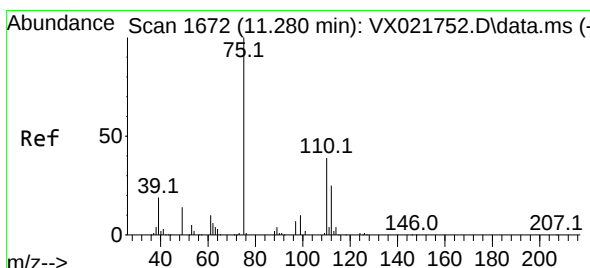
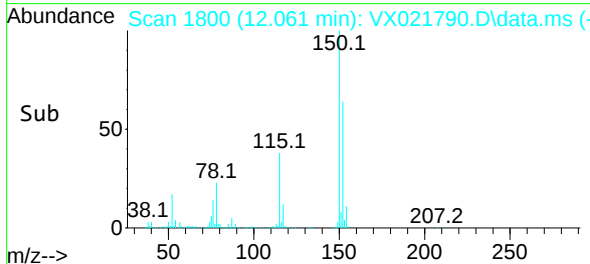
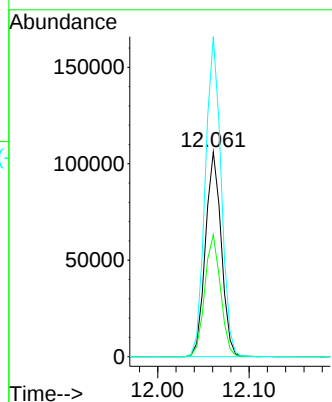
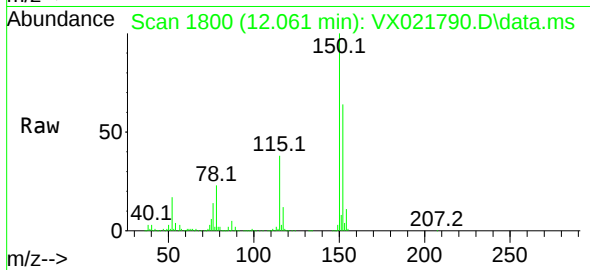




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.061 min Scan# 1800  
 Delta R.T. -0.000 min  
 Lab File: VX021790.D  
 Acq: 21 Apr 2021 14:18

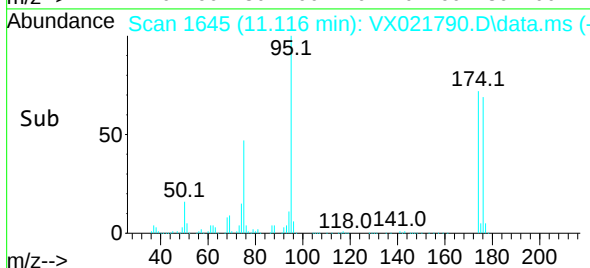
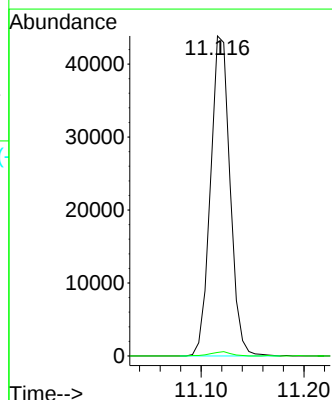
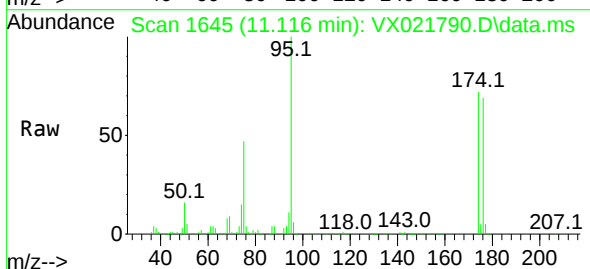
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB-RW8-GW-98-100

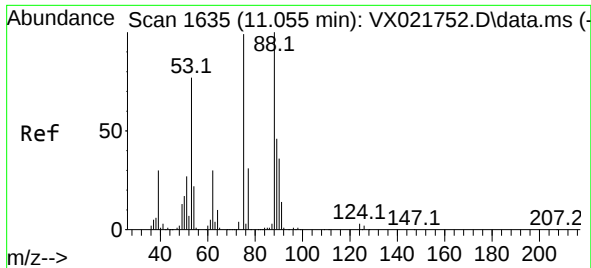
Tgt Ion:152 Resp: 126904  
 Ion Ratio Lower Upper  
 152 100  
 115 59.4 41.1 123.3  
 150 156.7 0.0 349.0



#76  
 1,2,3-Trichloropropane  
 Concen: 22.99 ug/l  
 RT: 11.116 min Scan# 1645  
 Delta R.T. -0.164 min  
 Lab File: VX021790.D  
 Acq: 21 Apr 2021 14:18

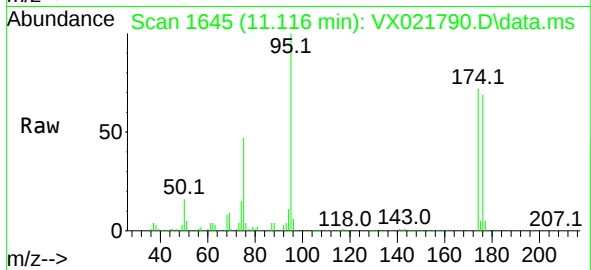
Tgt Ion: 75 Resp: 57853  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 52.86 ug/l  
 RT: 11.116 min Scan# 1645  
 Delta R.T. 0.061 min  
 Lab File: VX021790.D  
 Acq: 21 Apr 2021 14:18

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB-RW8-GW-98-100



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.0   | 74.5  | 111.7# |
| 89      | 0.0   | 37.9  | 56.9#  |

