

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX052121\  
 Data File : VX022113.D  
 Acq On : 21 May 2021 14:27  
 Operator : JC/MD  
 Sample : M2472-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB-RW8-DUP-20210517

Quant Time: May 22 04:54:42 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051921W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 19 14:23:10 2021  
 Response via : Initial Calibration

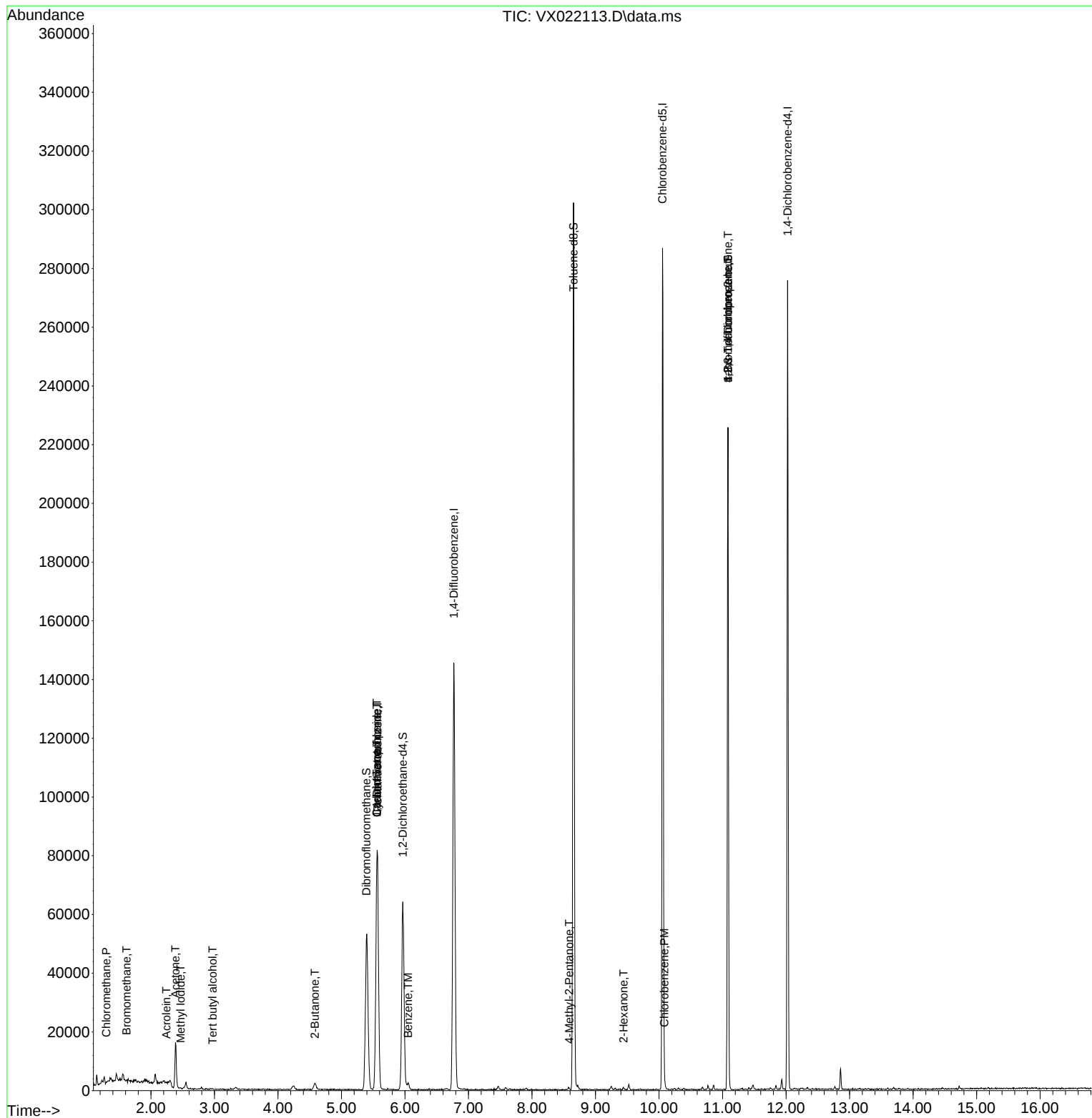
| Compound                      | R.T.           | QIon | Response           | Conc  | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-------|--------|----------|
| -----                         |                |      |                    |       |        |          |
| Internal Standards            |                |      |                    |       |        |          |
| 1) Pentafluorobenzene         | 5.568          | 168  | 71844              | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 146765             | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 129695             | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 49753              | 50.00 | ug/l   | 0.00     |
|                               |                |      |                    |       |        |          |
| System Monitoring Compounds   |                |      |                    |       |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 56955              | 51.39 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 102.78% |       |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 45684              | 49.08 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 98.16%  |       |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 177646             | 49.55 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 99.10%  |       |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 62371              | 47.07 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 94.14%  |       |        |          |
|                               |                |      |                    |       |        |          |
| Target Compounds              |                |      |                    |       | Qvalue |          |
| 3) Chloromethane              | 1.295          | 50   | 244                | 0.26  | ug/l # | 79       |
| 5) Bromomethane               | 1.618          | 94   | 346                | 0.60  | ug/l # | 75       |
| 10) Methyl Iodide             | 2.465          | 142  | 260                | 0.28  | ug/l # | 89       |
| 11) Tert butyl alcohol        | 2.971          | 59   | 269                | 1.06  | ug/l # | 73       |
| 13) Acrolein                  | 2.239          | 56   | 92                 | 0.55  | ug/l # | 14       |
| 16) Acetone                   | 2.386          | 43   | 16044              | 33.25 | ug/l   | 98       |
| 25) 2-Butanone                | 4.580          | 43   | 3929               | 5.03  | ug/l # | 88       |
| 31) Cyclohexane               | 5.556          | 56   | 2059               | 1.48  | ug/l # | 56       |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 6618               | 4.88  | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 8034               | 6.05  | ug/l # | 20       |
| 40) Benzene                   | 6.050          | 78   | 2585               | 0.62  | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone      | 8.586          | 43   | 586                | 0.36  | ug/l   | 90       |
| 59) 2-Hexanone                | 9.439          | 43   | 628                | 0.51  | ug/l   | 65       |
| 65) Chlorobenzene             | 10.086         | 112  | 1216               | 0.45  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 31811              | 25.92 | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 31811              | 61.41 | ug/l # | 12       |
| -----                         |                |      |                    |       |        |          |

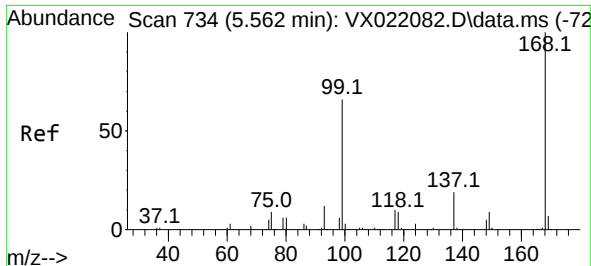
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX052121\  
Data File : VX022113.D  
Acq On : 21 May 2021 14:27  
Operator : JC/MD  
Sample : M2472-03  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-DUP-20210517

Quant Time: May 22 04:54:42 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051921W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 19 14:23:10 2021  
Response via : Initial Calibration

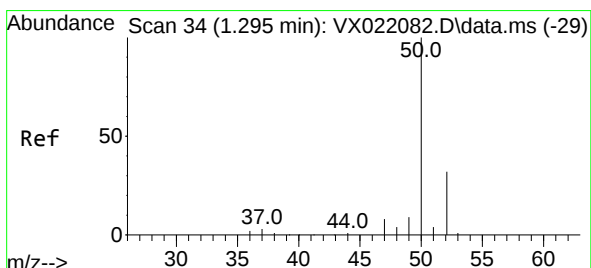
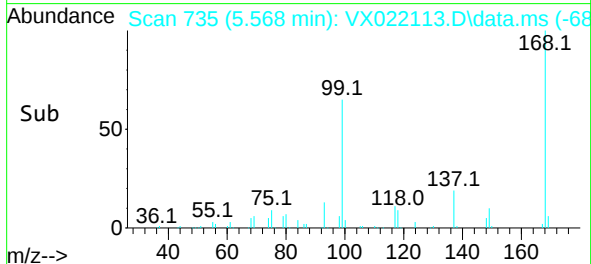
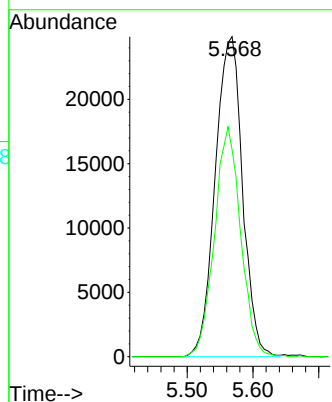
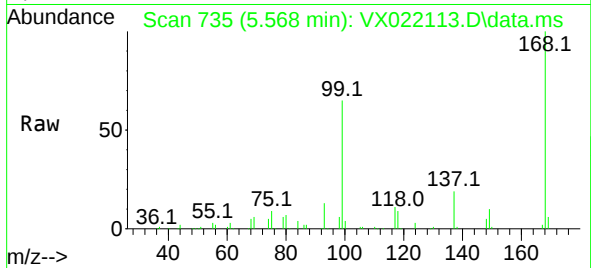




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.568 min Scan# 735  
Delta R.T. 0.006 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

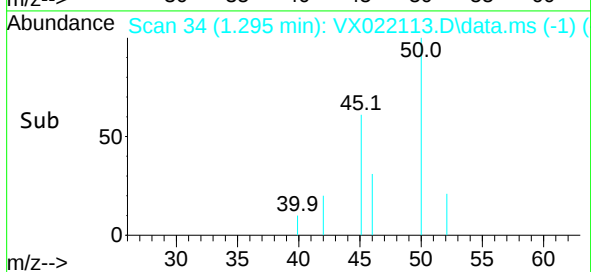
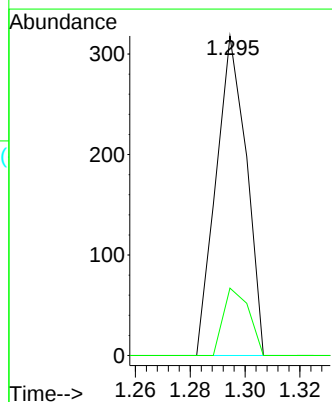
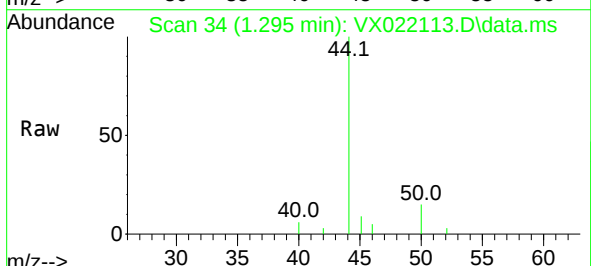
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-DUP-20210517

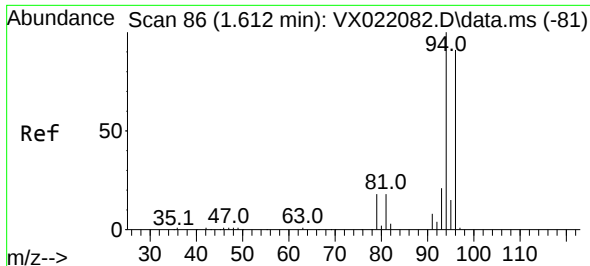
Tgt Ion:168 Resp: 71844  
Ion Ratio Lower Upper  
168 100  
99 64.8 45.8 68.6



#3  
Chloromethane  
Concen: 0.26 ug/l  
RT: 1.295 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

Tgt Ion: 50 Resp: 244  
Ion Ratio Lower Upper  
50 100  
52 21.1 26.4 39.6#

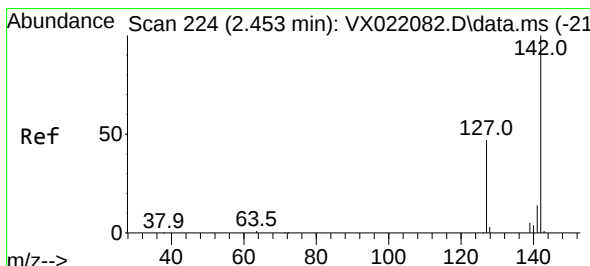
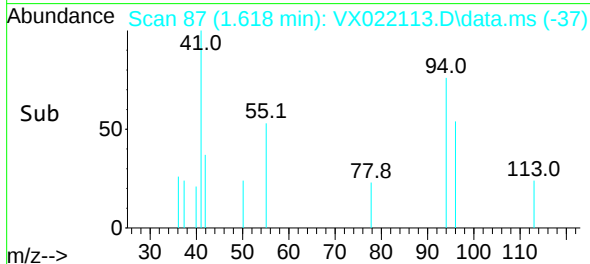
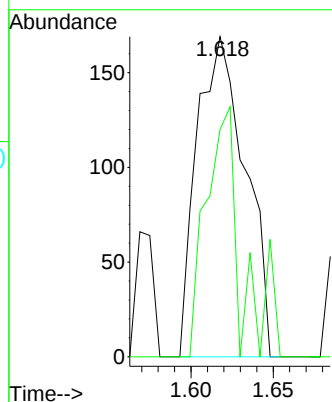
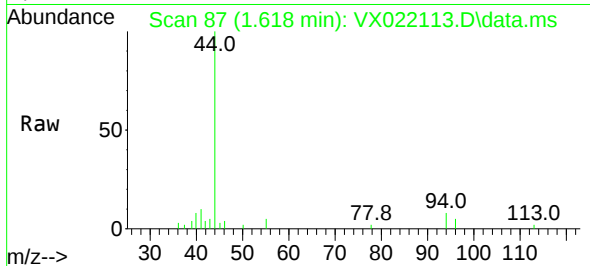




#5  
Bromomethane  
Concen: 0.60 ug/l  
RT: 1.618 min Scan# 87  
Delta R.T. 0.006 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

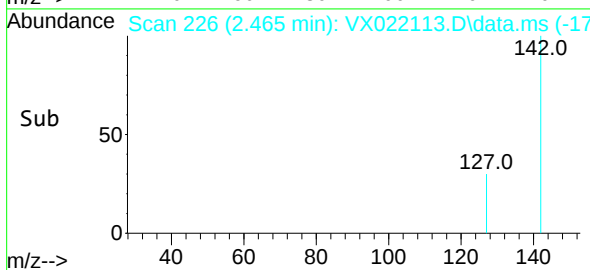
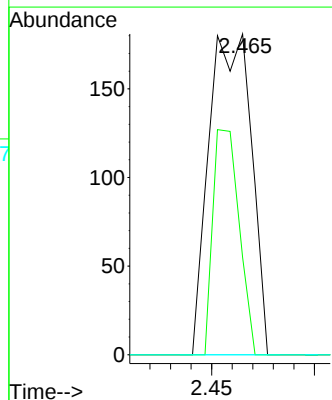
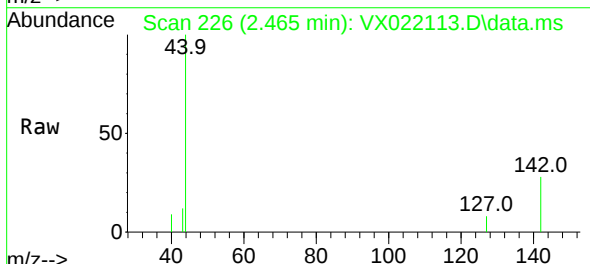
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-DUP-20210517

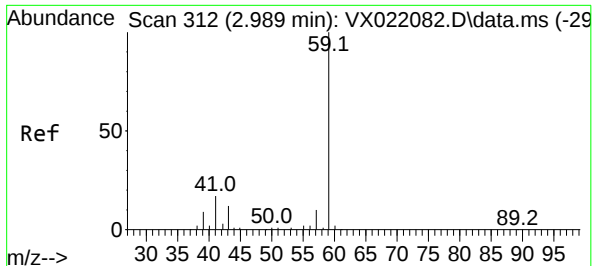
Tgt Ion: 94 Resp: 346  
Ion Ratio Lower Upper  
94 100  
96 71.0 76.4 114.6#



#10  
Methyl Iodide  
Concen: 0.28 ug/l  
RT: 2.465 min Scan# 226  
Delta R.T. 0.012 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

Tgt Ion: 142 Resp: 260  
Ion Ratio Lower Upper  
142 100  
127 43.5 33.3 49.9  
141 0.0 11.4 17.0#



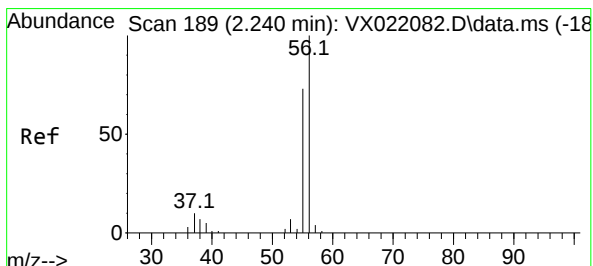
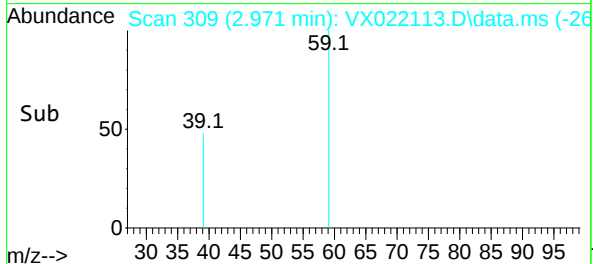
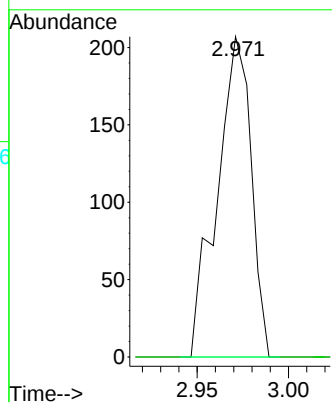
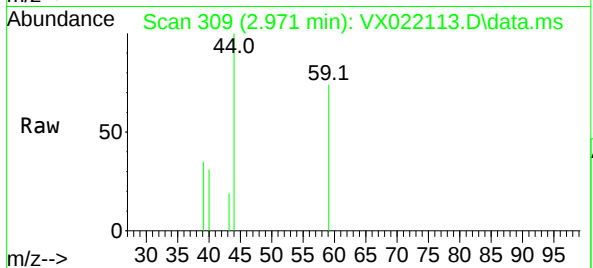


#11

Tert butyl alcohol  
Concen: 1.06 ug/l  
RT: 2.971 min Scan# 309  
Delta R.T. -0.018 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-DUP-20210517

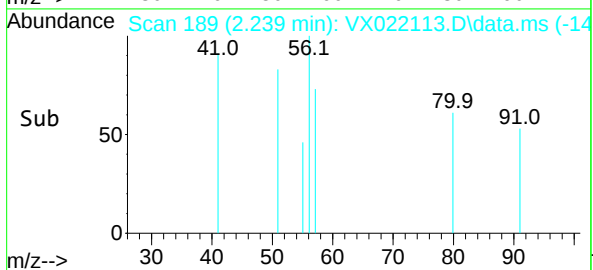
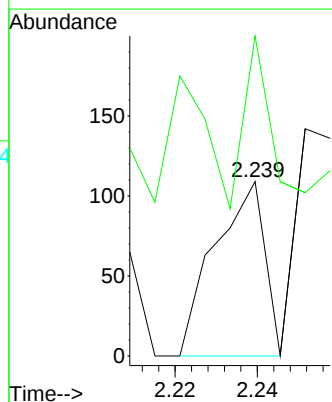
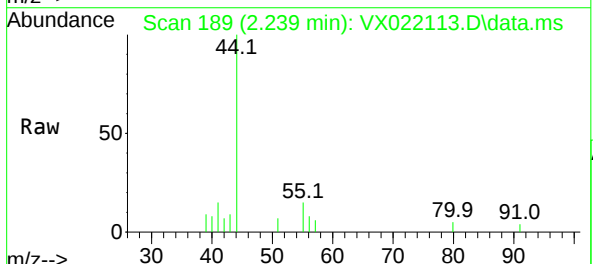
Tgt Ion: 59 Resp: 269  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

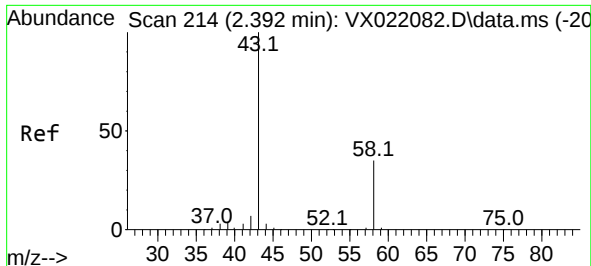


#13

Acrolein  
Concen: 0.55 ug/l  
RT: 2.239 min Scan# 189  
Delta R.T. -0.001 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

Tgt Ion: 56 Resp: 92  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.4 84.6#

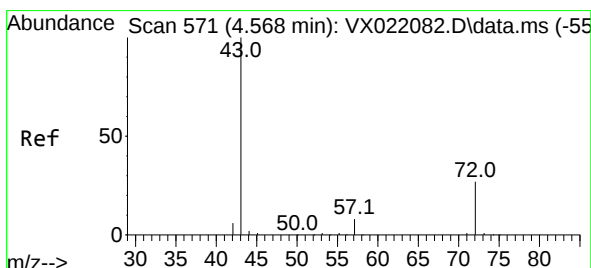
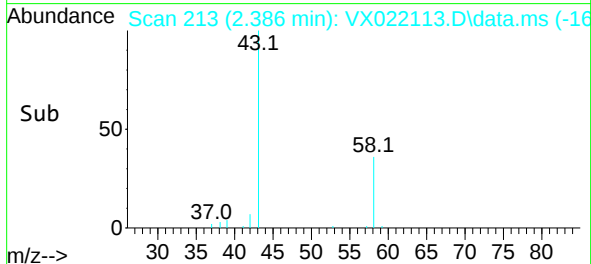
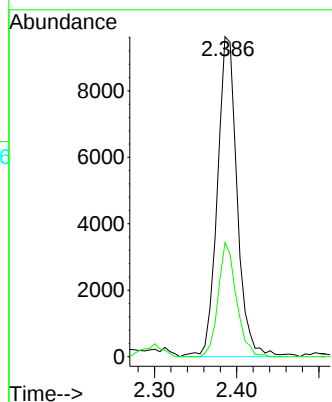
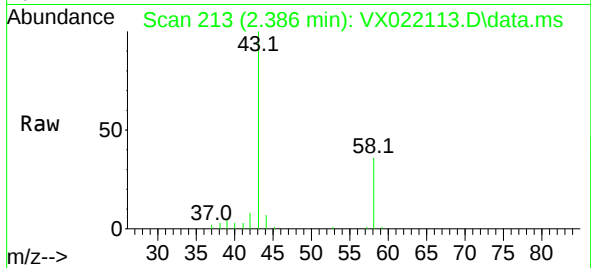




#16  
Acetone  
Concen: 33.25 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

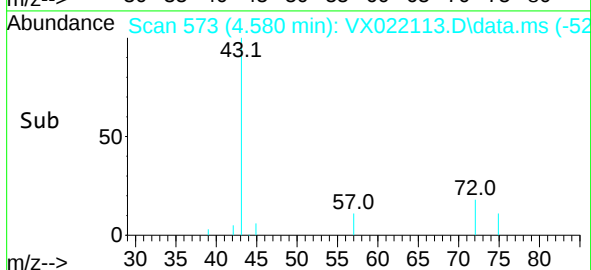
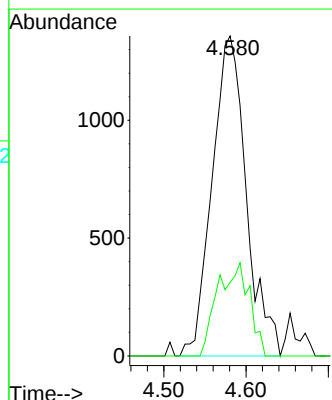
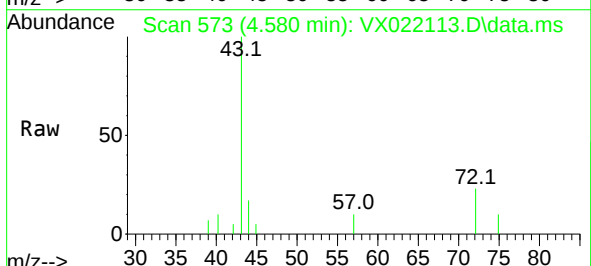
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-DUP-20210517

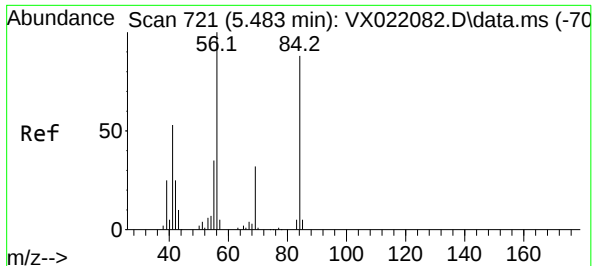
Tgt Ion: 43 Resp: 16044  
Ion Ratio Lower Upper  
43 100  
58 35.7 27.8 41.8



#25  
2-Butanone  
Concen: 5.03 ug/l  
RT: 4.580 min Scan# 573  
Delta R.T. 0.013 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

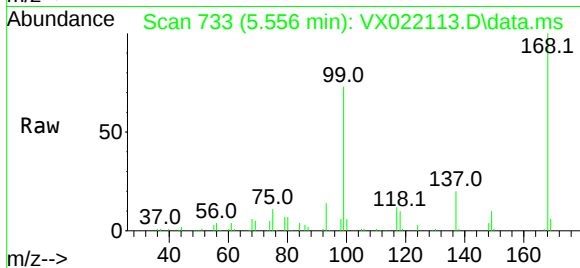
Tgt Ion: 43 Resp: 3929  
Ion Ratio Lower Upper  
43 100  
72 23.0 23.7 35.5#



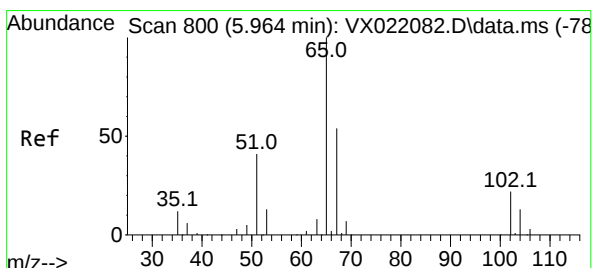
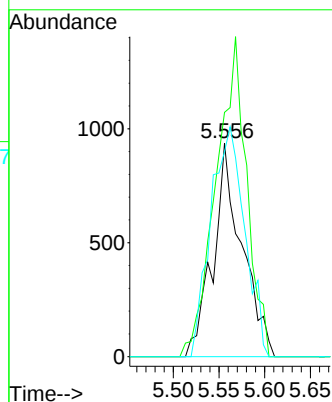
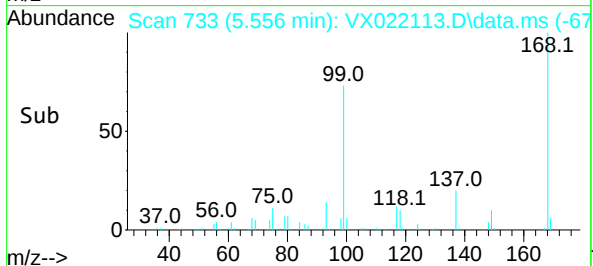


#31  
Cyclohexane  
Concen: 1.48 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.073 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

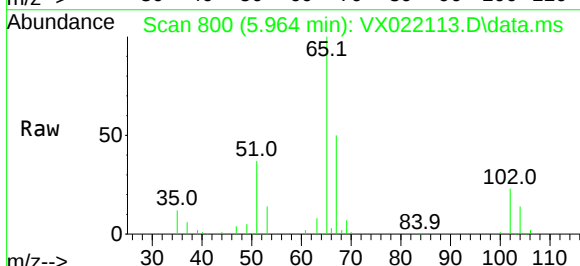
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-DUP-20210517



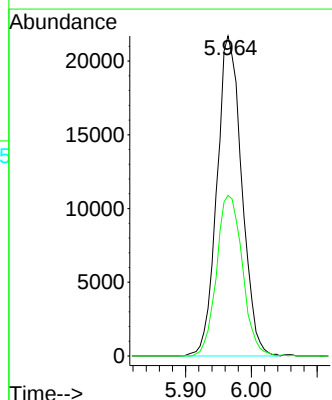
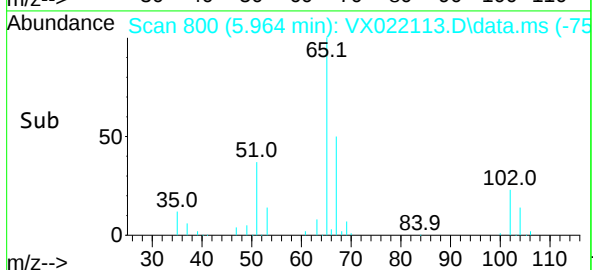
Tgt Ion: 56 Resp: 2059  
Ion Ratio Lower Upper  
56 100  
69 114.4 25.3 37.9#  
84 96.1 71.4 107.0

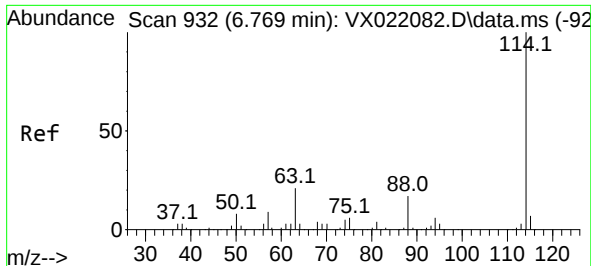


#33  
1,2-Dichloroethane-d4  
Concen: 51.39 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27



Tgt Ion: 65 Resp: 56955  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 105.4

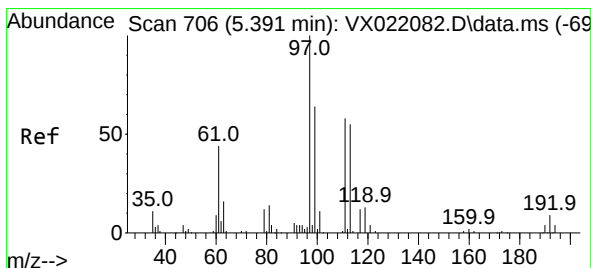
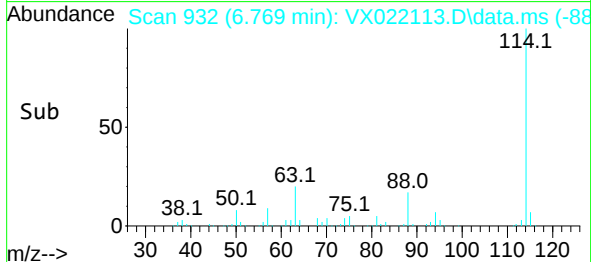
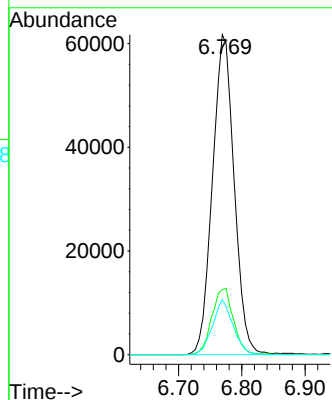
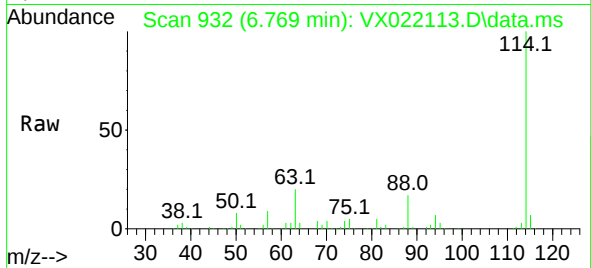




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

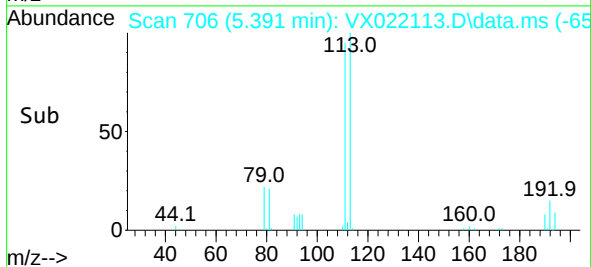
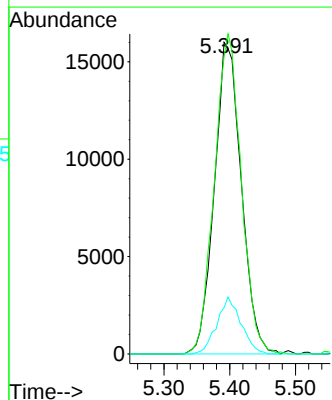
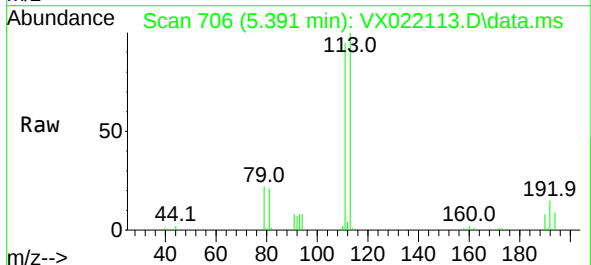
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-DUP-20210517

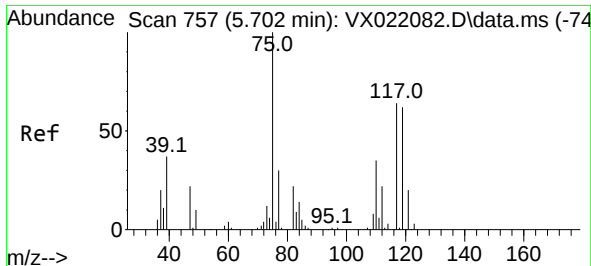
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Ion Ratio Lower Upper  
114 100  
63 20.3 0.0 40.8  
88 17.2 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 49.08 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

Tgt Ion:113 Resp: 45684  
Ion Ratio Lower Upper  
113 100  
111 102.4 81.9 122.9  
192 16.3 16.7 25.1#

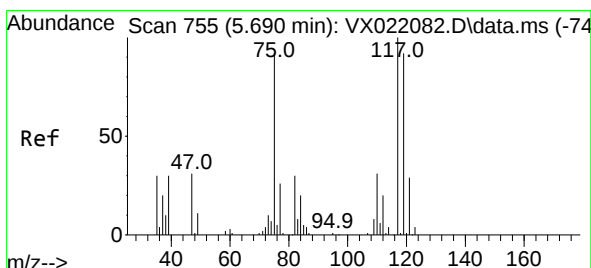
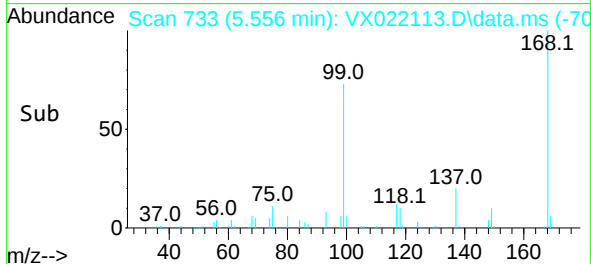
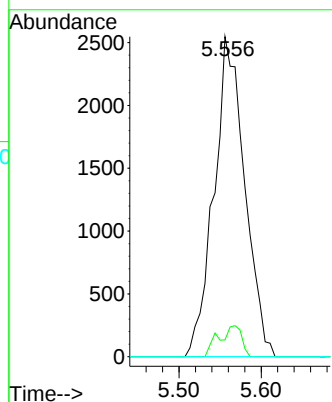
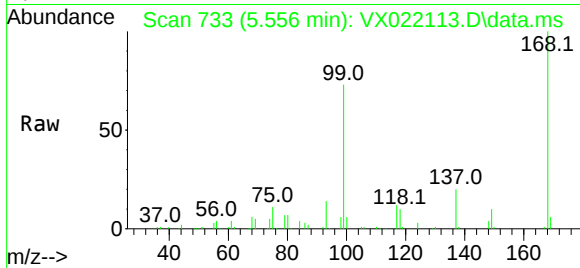




#36  
1,1-Dichloropropene  
Concen: 4.88 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.146 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

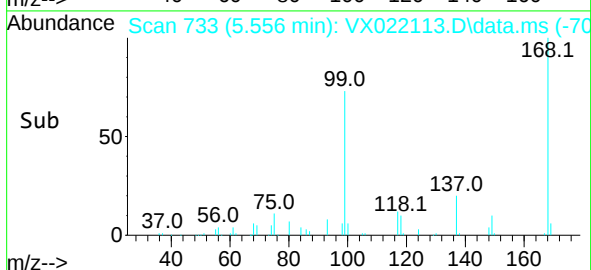
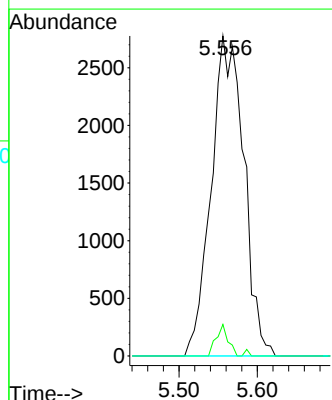
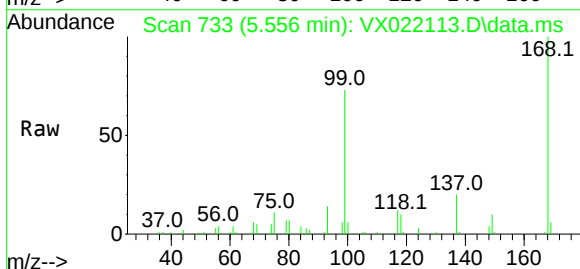
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-DUP-20210517

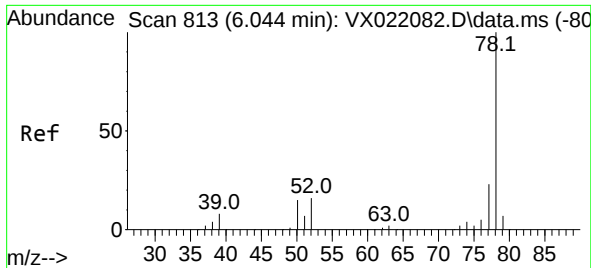
Tgt Ion: 75 Resp: 6618  
Ion Ratio Lower Upper  
75 100  
110 7.2 18.1 54.4#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 6.05 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.134 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

Tgt Ion: 117 Resp: 8034  
Ion Ratio Lower Upper  
117 100  
119 9.9 76.2 114.2#  
121 0.0 24.8 37.2#

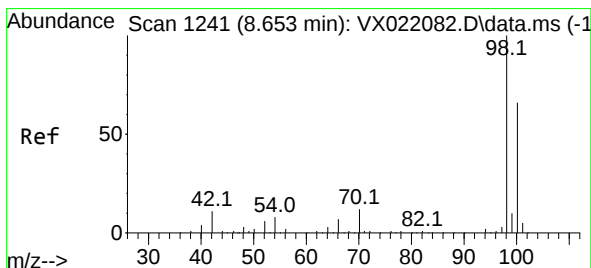
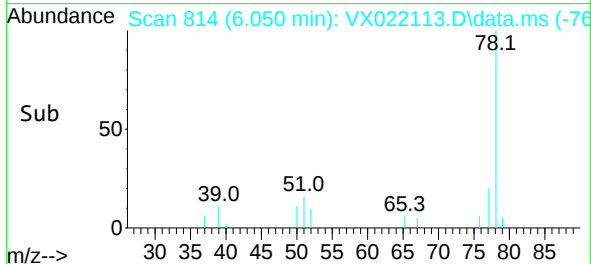
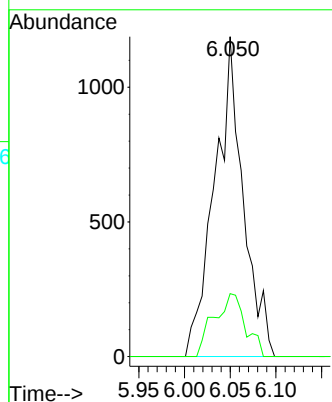
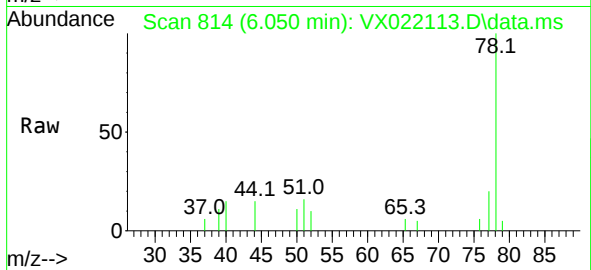




#40  
Benzene  
Concen: 0.62 ug/l  
RT: 6.050 min Scan# 814  
Delta R.T. 0.006 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

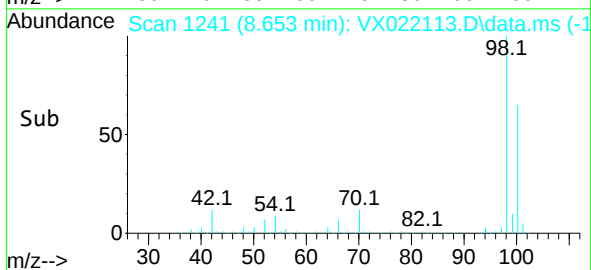
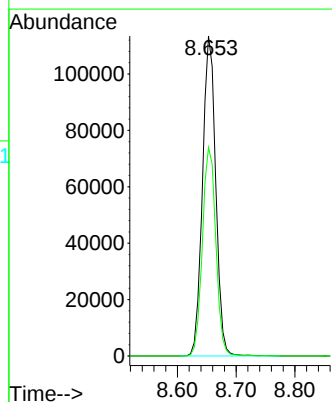
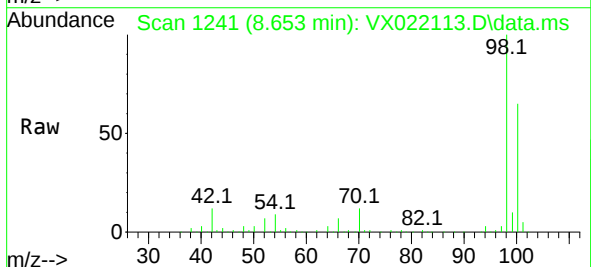
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-DUP-20210517

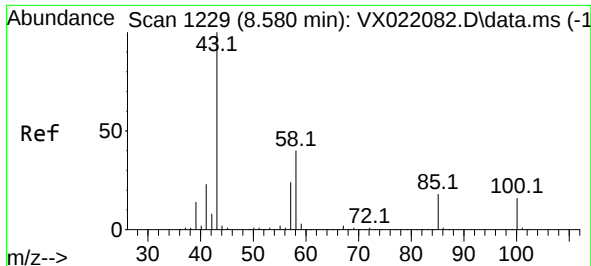
Tgt Ion: 78 Resp: 2585  
Ion Ratio Lower Upper  
78 100  
77 19.7 18.9 28.3



#50  
Toluene-d8  
Concen: 49.55 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

Tgt Ion: 98 Resp: 177646  
Ion Ratio Lower Upper  
98 100  
100 66.2 51.9 77.9

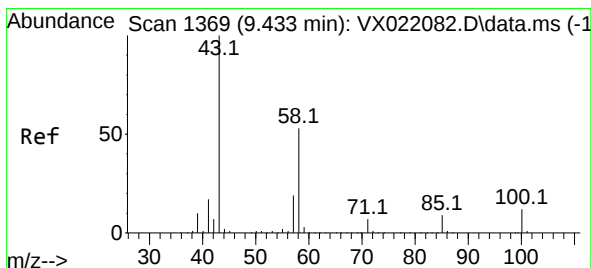
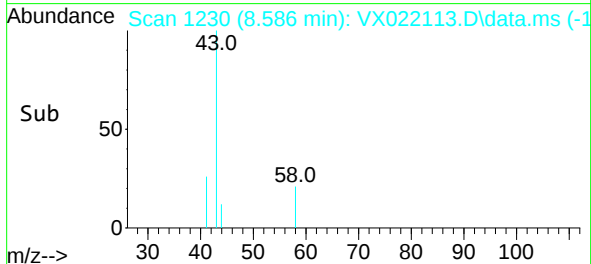
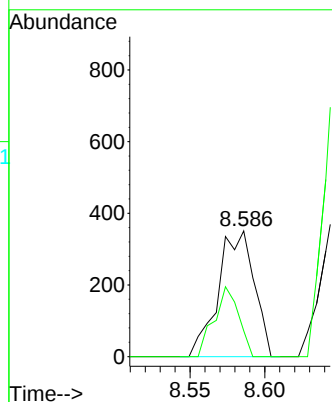
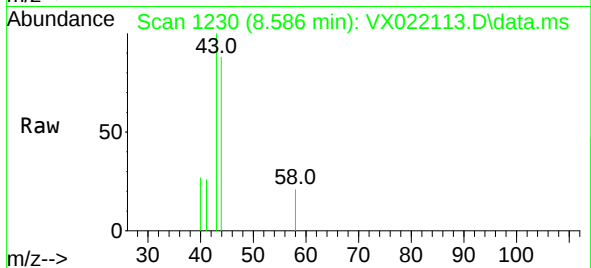




#51  
4-Methyl-2-Pentanone  
Concen: 0.36 ug/l  
RT: 8.586 min Scan# 1230  
Delta R.T. 0.006 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

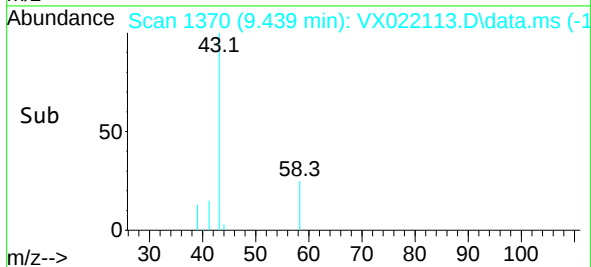
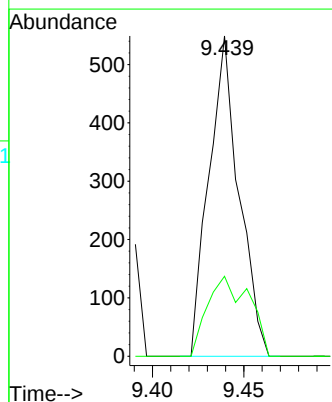
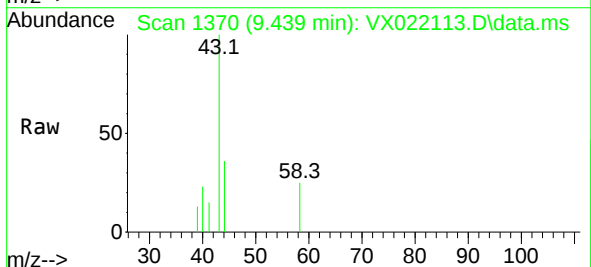
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-DUP-20210517

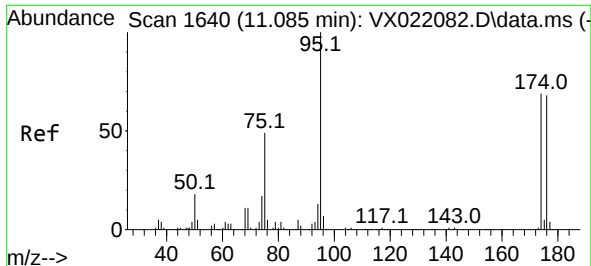
Tgt Ion: 43 Resp: 586  
Ion Ratio Lower Upper  
43 100  
58 37.9 35.4 53.0



#59  
2-Hexanone  
Concen: 0.51 ug/l  
RT: 9.439 min Scan# 1370  
Delta R.T. 0.006 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

Tgt Ion: 43 Resp: 628  
Ion Ratio Lower Upper  
43 100  
58 34.7 30.9 92.8

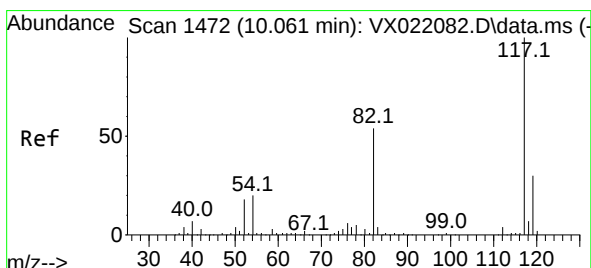
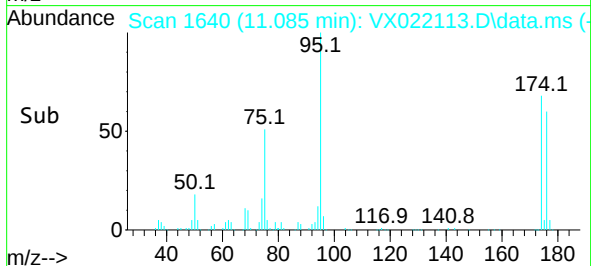
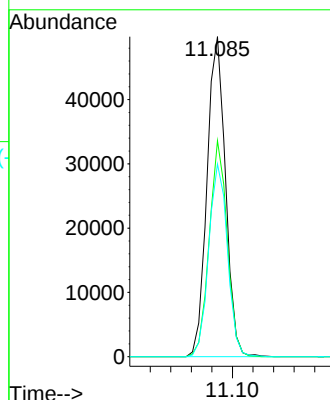
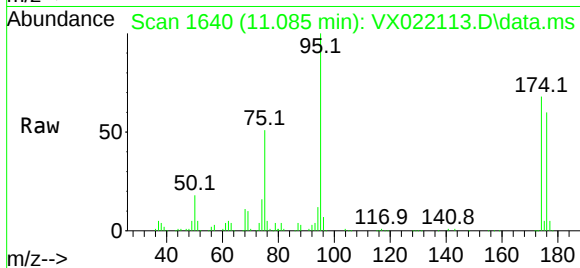




#62  
4-Bromofluorobenzene  
Concen: 47.07 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

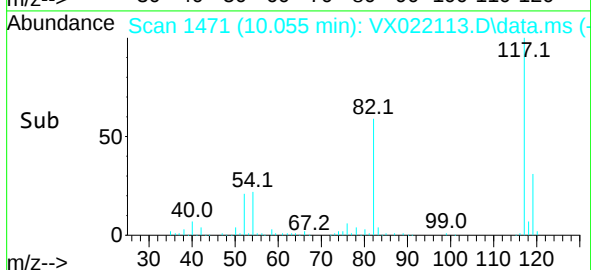
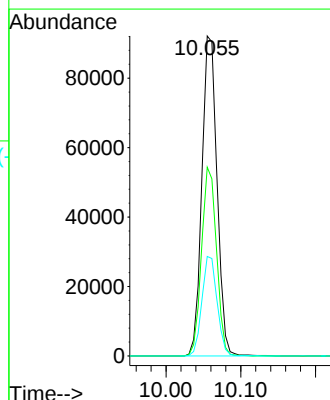
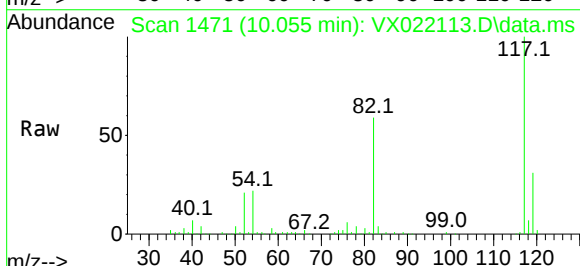
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-DUP-20210517

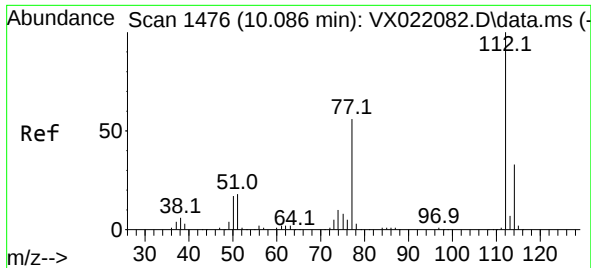
Tgt Ion: 95 Resp: 62371  
Ion Ratio Lower Upper  
95 100  
174 65.5 0.0 154.6  
176 60.9 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

Tgt Ion: 117 Resp: 129695  
Ion Ratio Lower Upper  
117 100  
82 59.0 47.4 71.2  
119 31.1 26.6 39.8

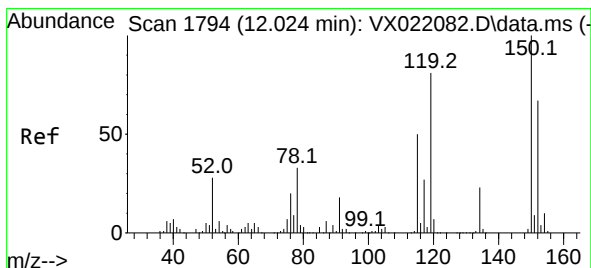
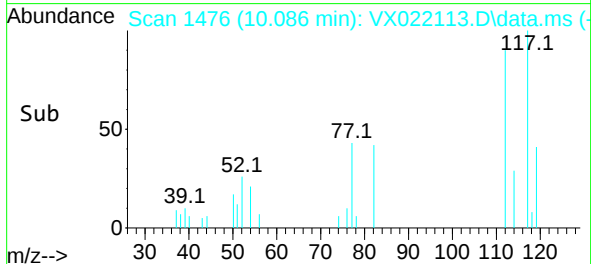
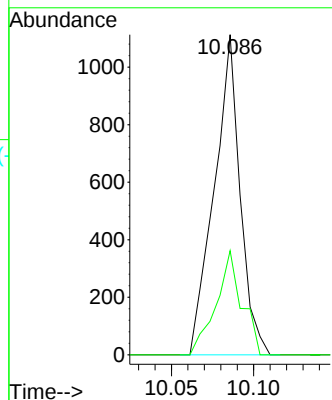
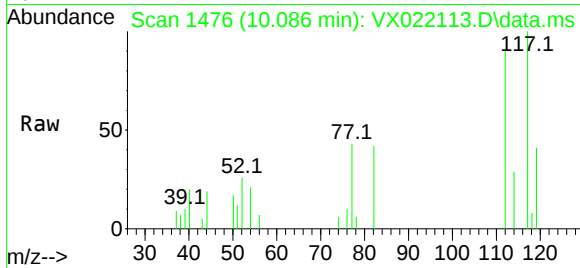




#65  
Chlorobenzene  
Concen: 0.45 ug/l  
RT: 10.086 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

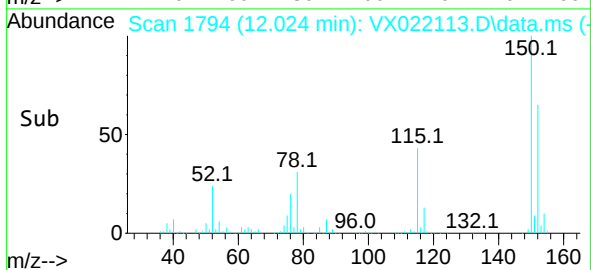
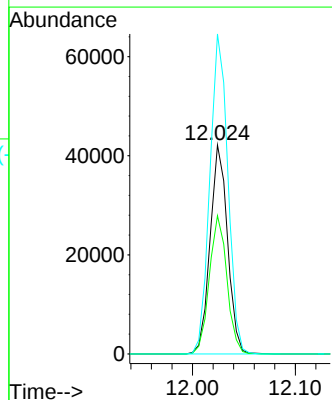
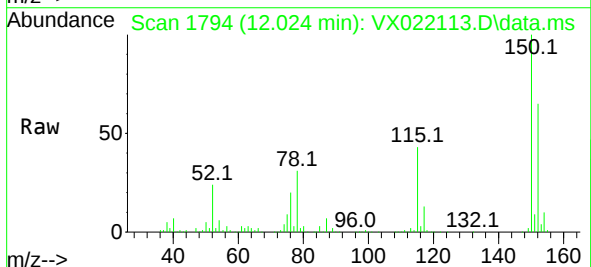
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW8-DUP-20210517

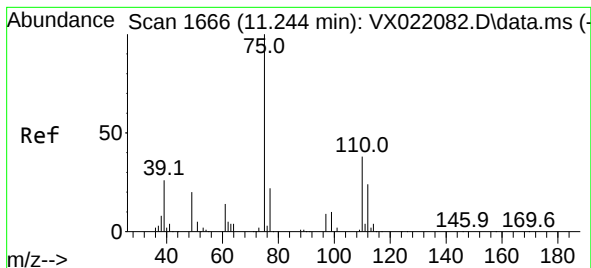
Tgt Ion:112 Resp: 1216  
Ion Ratio Lower Upper  
112 100  
114 32.5 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX022113.D  
Acq: 21 May 2021 14:27

Tgt Ion:152 Resp: 49753  
Ion Ratio Lower Upper  
152 100  
115 66.6 41.1 123.3  
150 157.7 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 25.92 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. -0.159 min

Lab File: VX022113.D

Acq: 21 May 2021 14:27

Tgt Ion: 75 Resp: 31811

Ion Ratio Lower Upper

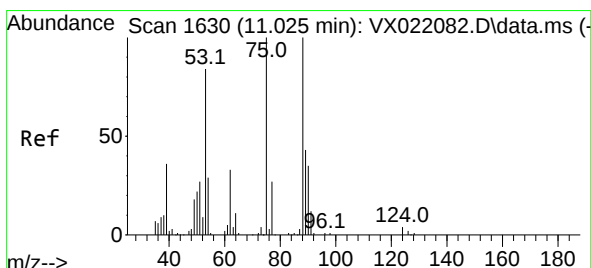
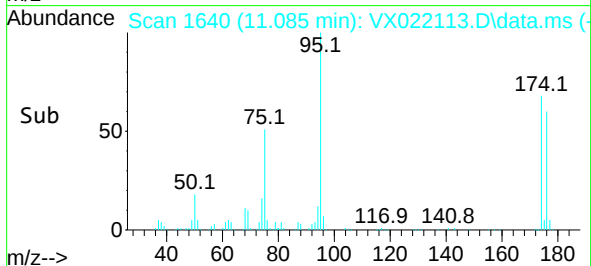
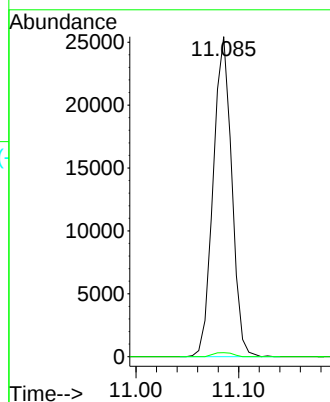
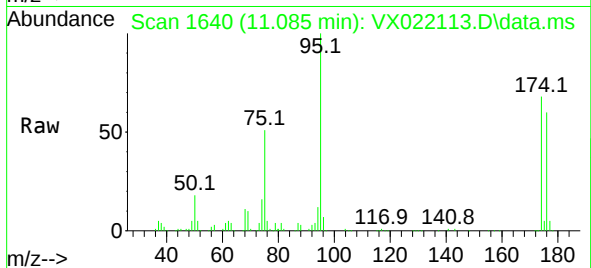
75 100  
77 1.3 19.1 57.5#

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW8-DUP-20210517



#81

trans-1,4-Dichloro-2-butene

Concen: 61.41 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.060 min

Lab File: VX022113.D

Acq: 21 May 2021 14:27

Tgt Ion: 75 Resp: 31811

Ion Ratio Lower Upper

75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

