

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091922\  
 Data File : VX031468.D  
 Acq On : 19 Sep 2022 18:26  
 Operator : JC/MD  
 Sample : N4558-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB-RW5-TB-20220906RE

Quant Time: Sep 20 09:49:43 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091922W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 20 09:45:29 2022  
 Response via : Initial Calibration

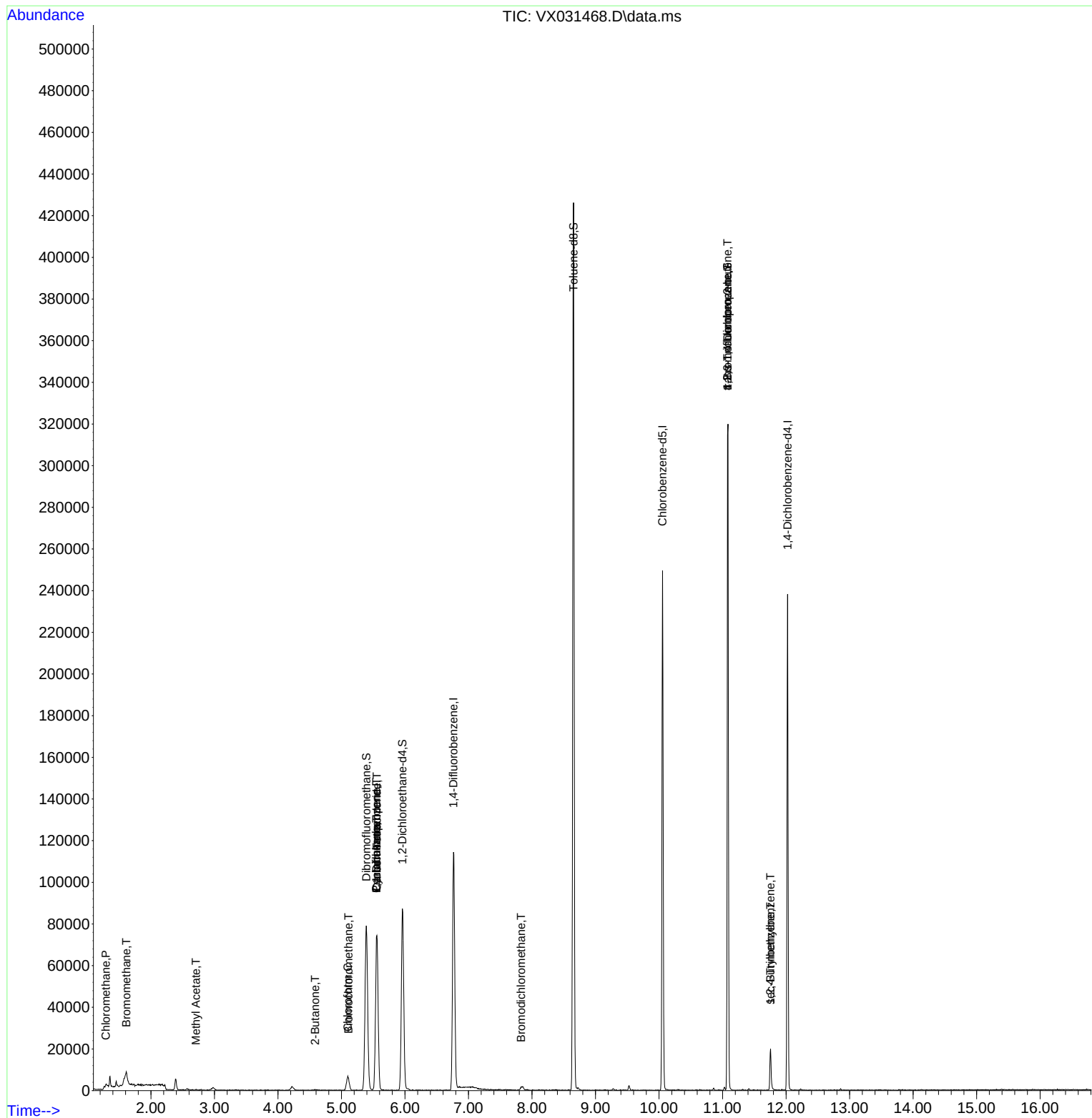
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 72119    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 117742   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 104278   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 44586    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 77841    | 58.937    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 117.880% |
| 35) Dibromofluoromethane      | 5.391  | 113   | 65292    | 53.704    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 107.400% |
| 50) Toluene-d8                | 8.653  | 98    | 244719   | 52.168    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 104.340% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 73561    | 46.295    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 92.580%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 1.288  | 50    | 490      | 0.356     | ug/l   | 98       |
| 5) Bromomethane               | 1.611  | 94    | 485      | 0.217     | ug/l # | 79       |
| 6) Chloroethane               | 1.733  | 64    | 96       | Below Cal | #      | 43       |
| 11) Tert butyl alcohol        | 2.971  | 59    | 1811     | Below Cal | #      | 90       |
| 13) Acrolein                  | 2.215  | 56    | 19       | Below Cal | #      | 1        |
| 16) Acetone                   | 2.392  | 43    | 5762     | Below Cal |        | 99       |
| 18) Methyl Acetate            | 2.709  | 43    | 432      | 0.219     | ug/l # | 52       |
| 20) Methylene Chloride        | 2.794  | 84    | 161      | Below Cal | #      | 45       |
| 25) 2-Butanone                | 4.586  | 43    | 284      | 0.278     | ug/l # | 49       |
| 28) Bromochloromethane        | 5.111  | 49    | 637      | 0.712     | ug/l # | 15       |
| 30) Chloroform                | 5.099  | 83    | 7495     | 3.050     | ug/l   | 99       |
| 31) Cyclohexane               | 5.550  | 56    | 1695     | 0.864     | ug/l # | 26       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 5822     | 3.111     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 7029     | 3.388     | ug/l # | 17       |
| 47) Bromodichloromethane      | 7.830  | 83    | 979      | 0.482     | ug/l # | 79       |
| 75) 1,1,2,2-Tetrachloroethane | 11.085 | 83    | 154      | Below Cal | #      | 1        |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 41740    | 41.945    | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 41740    | 135.057   | ug/l # | 11       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105   | 6463     | 2.323     | ug/l # | 31       |
| 85) sec-Butylbenzene          | 11.756 | 105   | 6463     | 1.865     | ug/l # | 56       |
| -----                         |        |       |          |           |        |          |

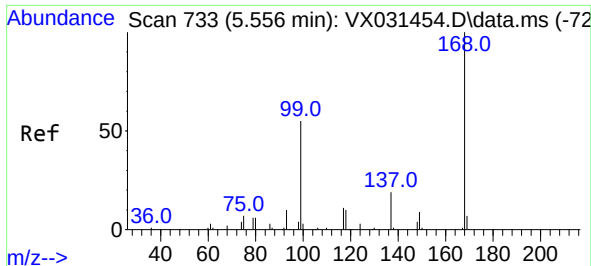
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091922W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 20 09:45:29 2022  
Response via : Initial Calibration

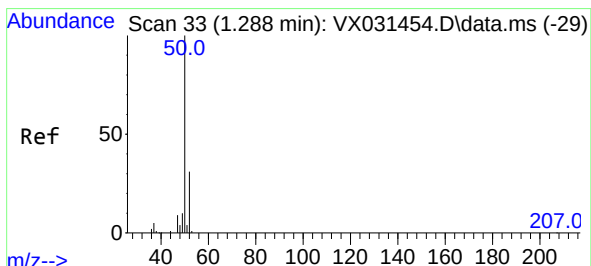
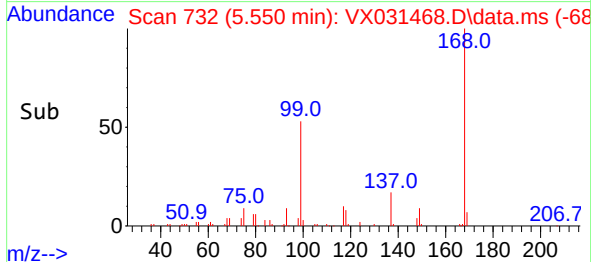
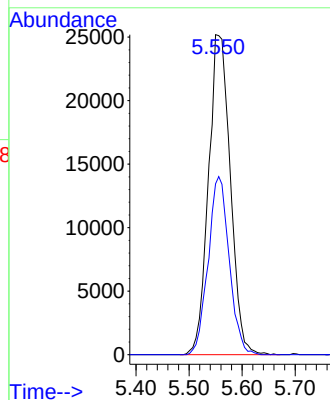
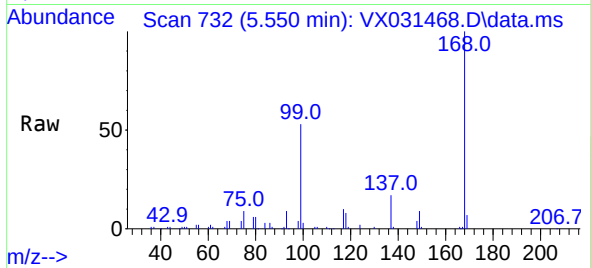




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

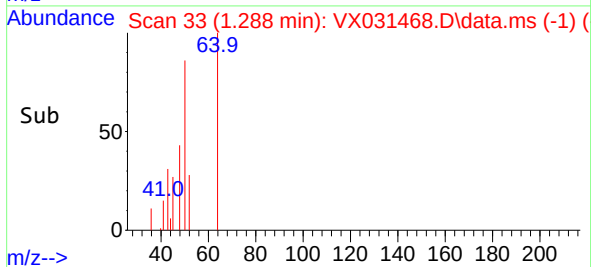
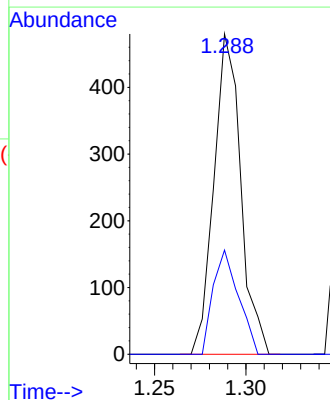
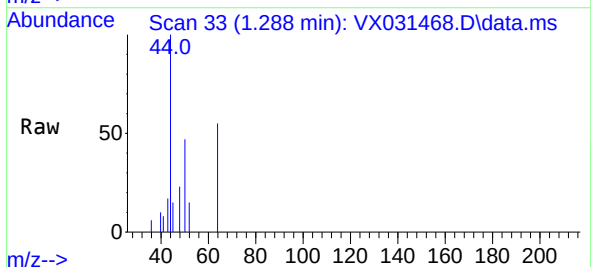
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-TB-20220906RE

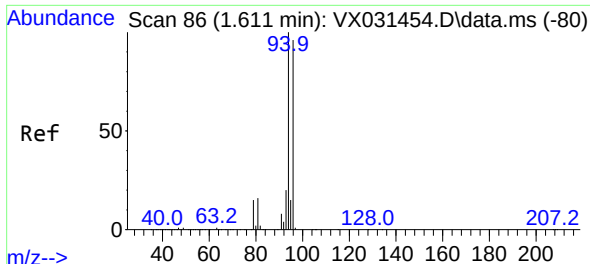
Tgt Ion:168 Resp: 72119  
Ion Ratio Lower Upper  
168 100  
99 53.4 48.8 73.2



#3  
Chloromethane  
Concen: 0.356 ug/l  
RT: 1.288 min Scan# 33  
Delta R.T. 0.000 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

Tgt Ion: 50 Resp: 490  
Ion Ratio Lower Upper  
50 100  
52 32.5 26.9 40.3

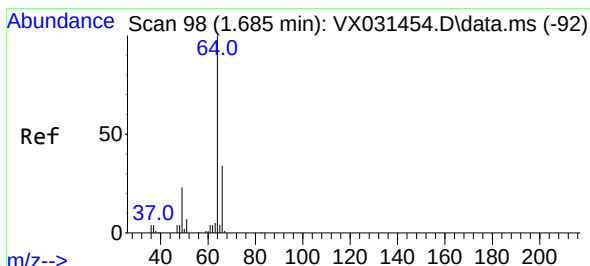
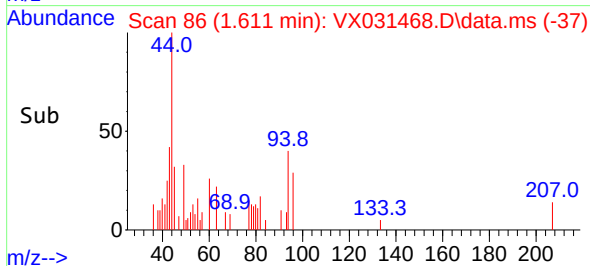
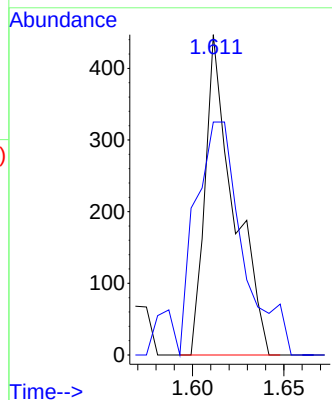
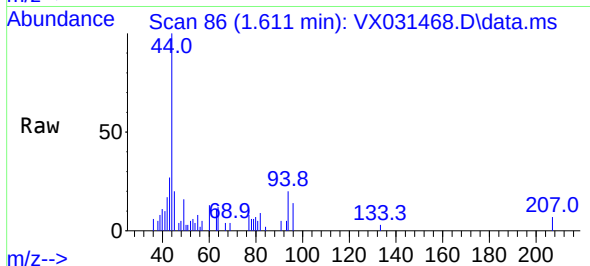




#5  
Bromomethane  
Concen: 0.217 ug/l  
RT: 1.611 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

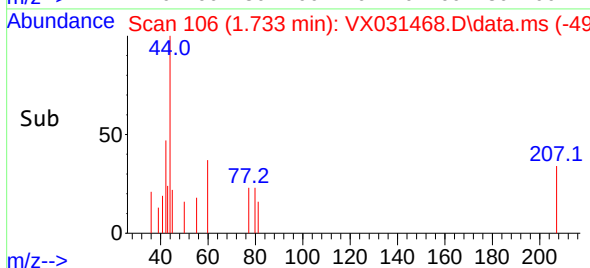
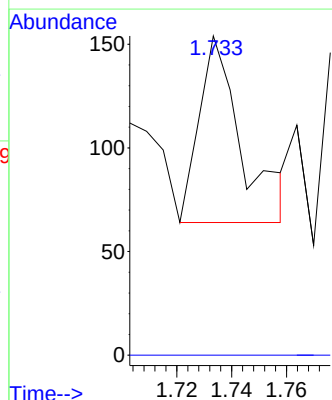
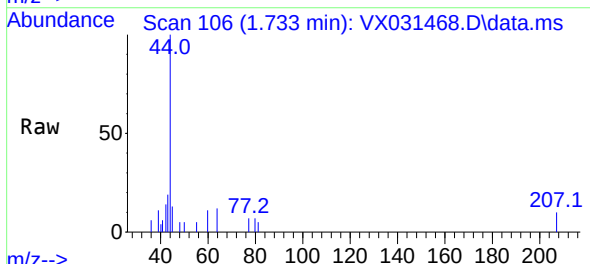
Instrument :  
MSVOA\_X  
ClientSampleId :  
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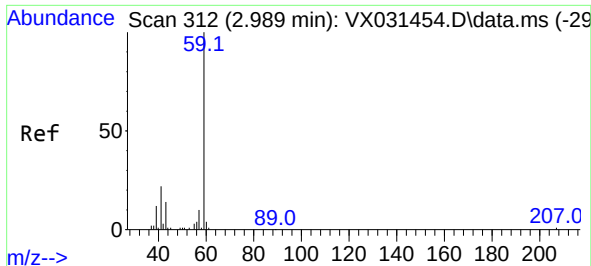
Tgt Ion: 94 Resp: 485  
Ion Ratio Lower Upper  
94 100  
96 72.7 74.4 111.6#



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.733 min Scan# 106  
Delta R.T. 0.048 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

Tgt Ion: 64 Resp: 96  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.0 37.4#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.971 min Scan# 309

Delta R.T. -0.018 min

Lab File: VX031468.D

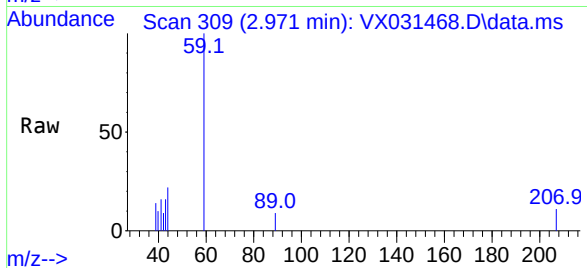
Acq: 19 Sep 2022 18:26

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW5-TB-20220906RE

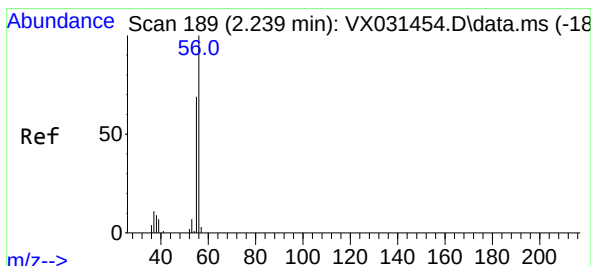
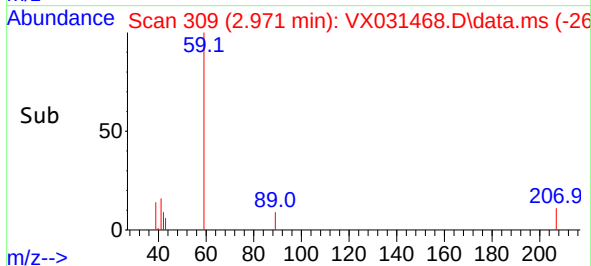
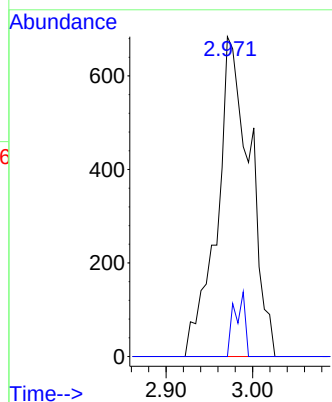


Tgt Ion: 59 Resp: 1811

Ion Ratio Lower Upper

59 100

57 6.5 8.2 12.2#



#13

Acrolein

Concen: Below Cal

RT: 2.215 min Scan# 185

Delta R.T. -0.024 min

Lab File: VX031468.D

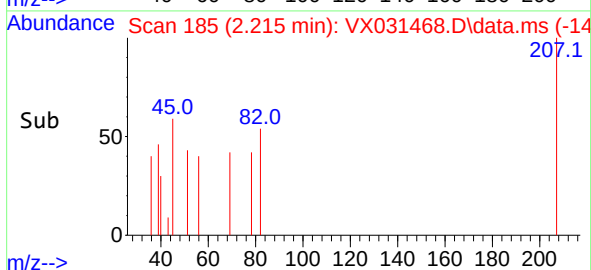
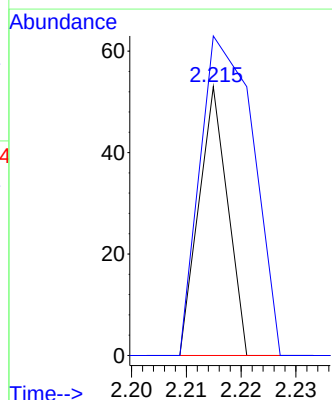
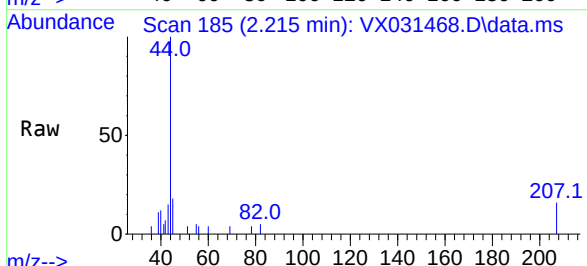
Acq: 19 Sep 2022 18:26

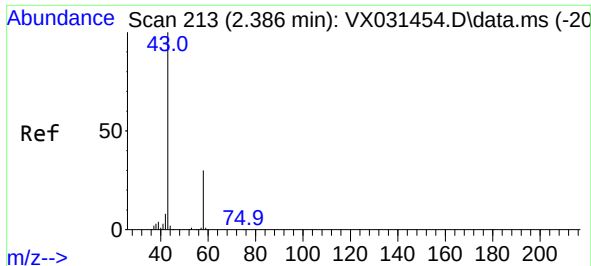
Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 221.1 56.0 84.0#

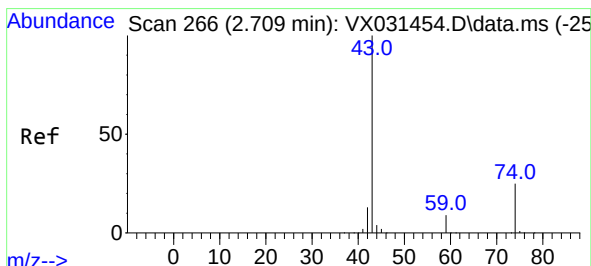
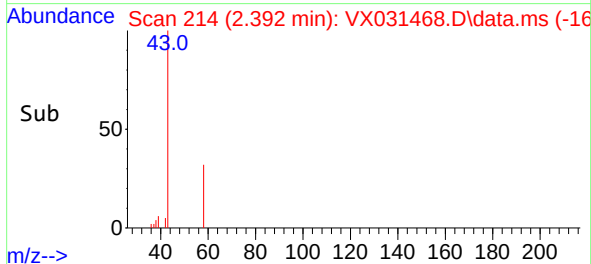
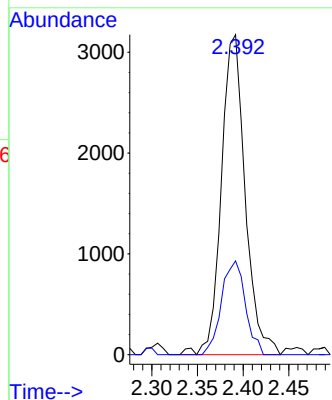
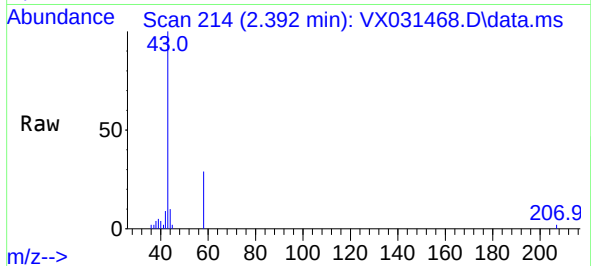




#16  
Acetone  
Concen: Below Cal  
RT: 2.392 min Scan# 213  
Delta R.T. 0.006 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

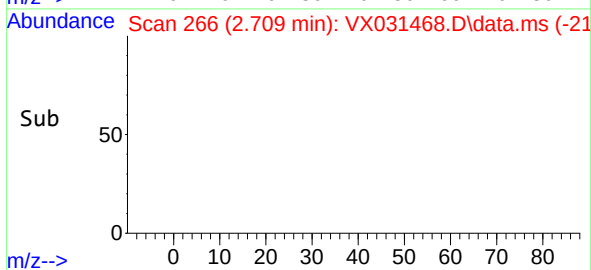
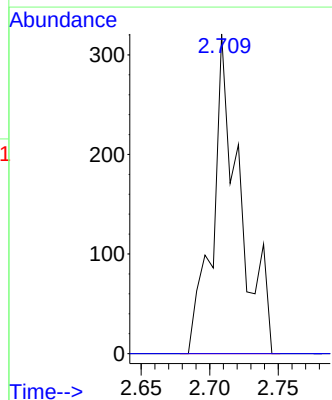
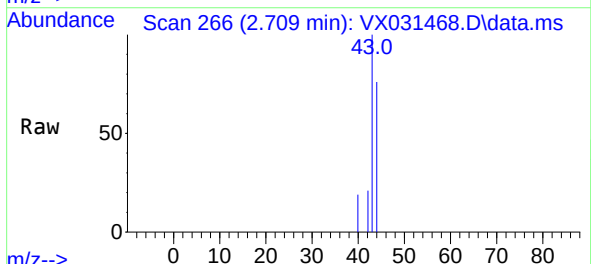
Instrument : MSVOA\_X  
ClientSampleId : BP-VPB-RW5-TB-20220906RE

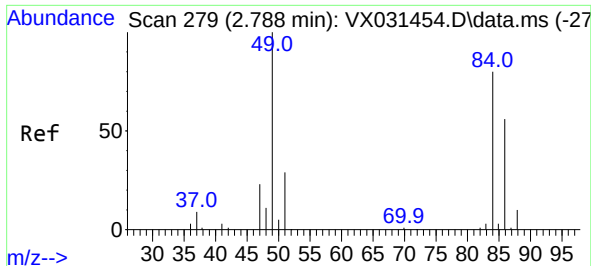
Tgt Ion: 43 Resp: 5762  
Ion Ratio Lower Upper  
43 100  
58 29.3 23.8 35.8



#18  
Methyl Acetate  
Concen: 0.219 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. -0.000 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

Tgt Ion: 43 Resp: 432  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.6 27.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX031468.D

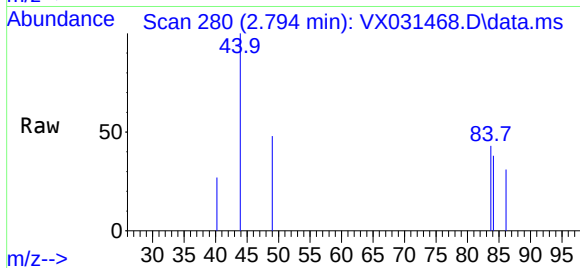
Acq: 19 Sep 2022 18:26

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW5-TB-20220906RE



Tgt Ion: 84 Resp: 161

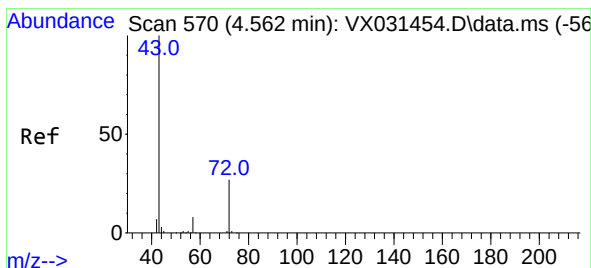
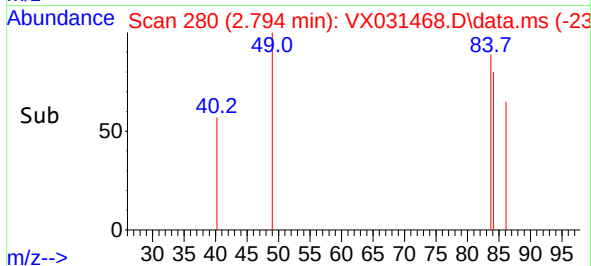
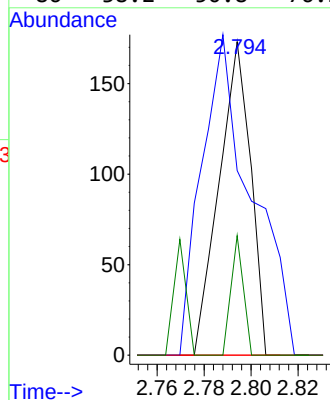
Ion Ratio Lower Upper

84 100

49 59.0 105.9 158.9#

51 0.0 32.2 48.2#

86 38.2 50.8 76.2#



#25

2-Butanone

Concen: 0.278 ug/l

RT: 4.586 min Scan# 574

Delta R.T. 0.024 min

Lab File: VX031468.D

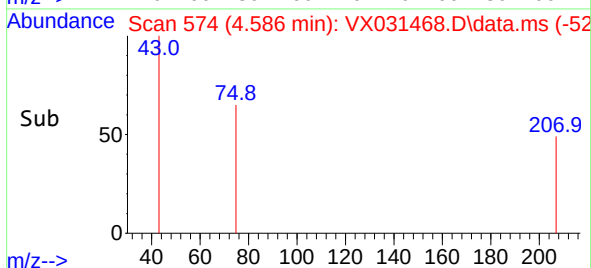
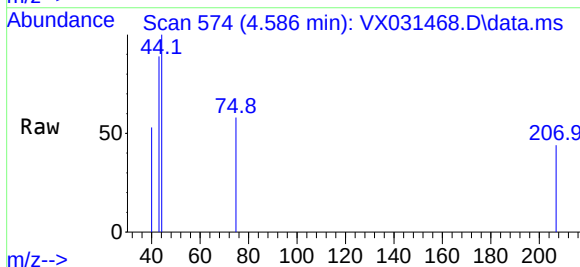
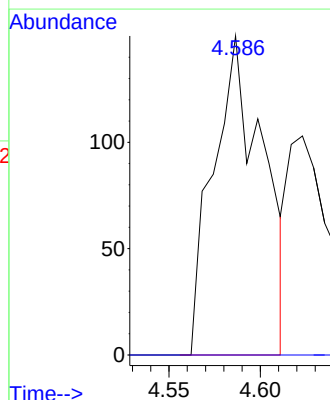
Acq: 19 Sep 2022 18:26

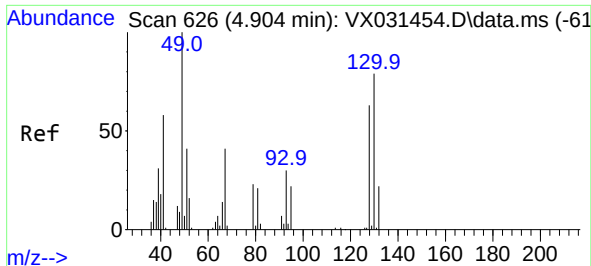
Tgt Ion: 43 Resp: 284

Ion Ratio Lower Upper

43 100

72 0.0 21.1 31.7#

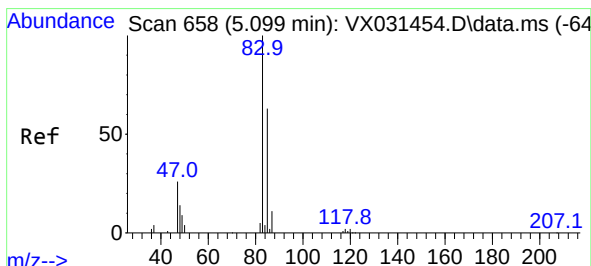
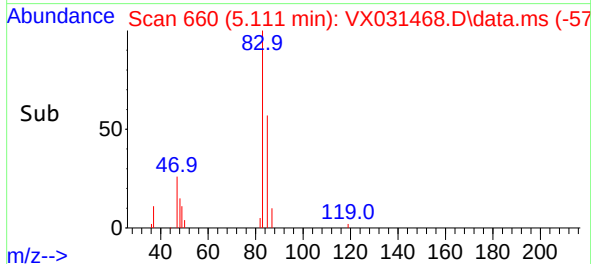
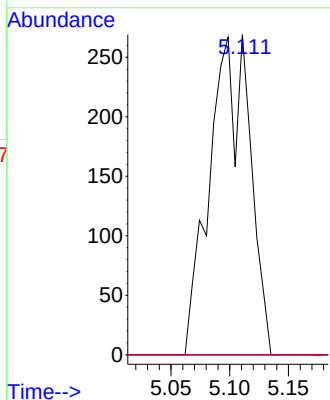
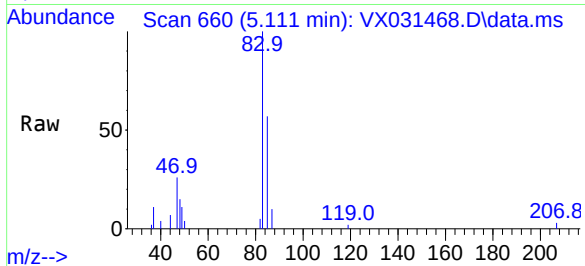




#28  
Bromochloromethane  
Concen: 0.712 ug/l  
RT: 5.111 min Scan# 61  
Delta R.T. 0.207 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

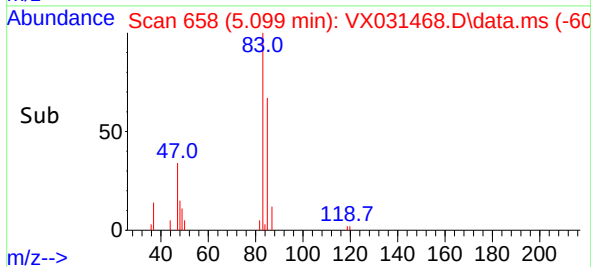
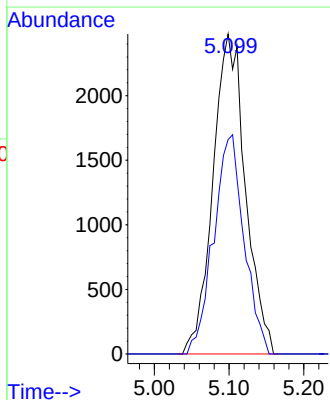
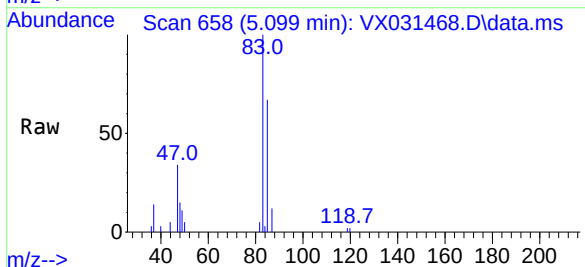
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MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-TB-20220906RE

Tgt Ion: 49 Resp: 637  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 3.6  
130 0.0 59.0 88.4#

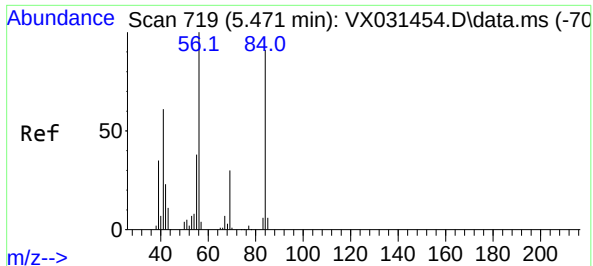


#30  
Chloroform  
Concen: 3.050 ug/l  
RT: 5.099 min Scan# 658  
Delta R.T. -0.000 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

Tgt Ion: 83 Resp: 7495  
Ion Ratio Lower Upper  
83 100  
85 67.0 52.8 79.2



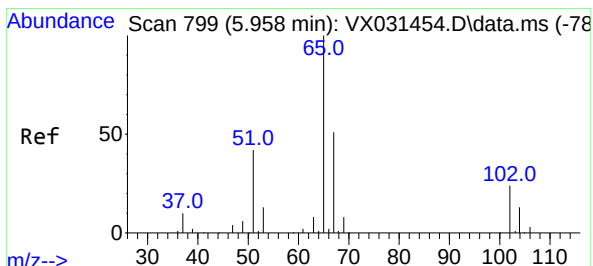
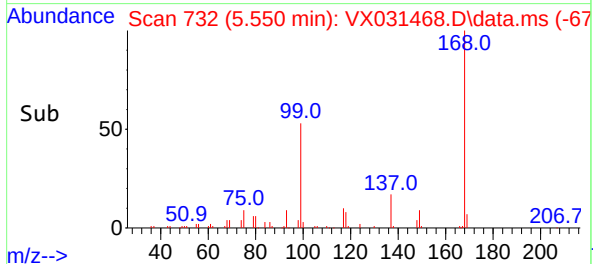
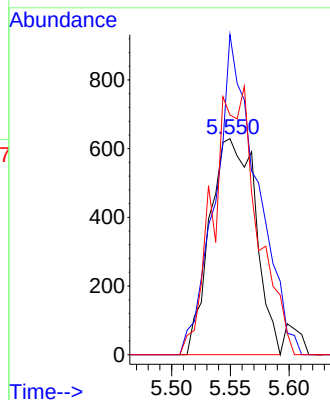
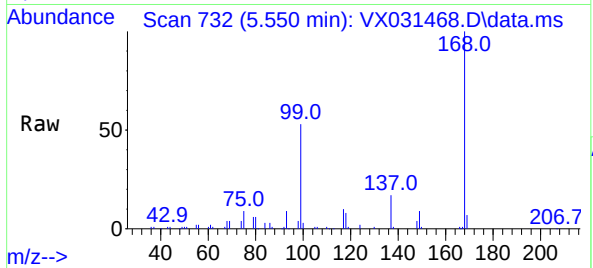




#31  
Cyclohexane  
Concen: 0.864 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

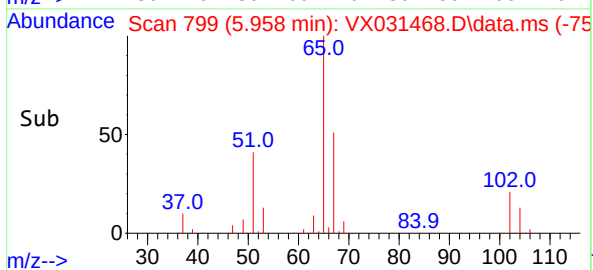
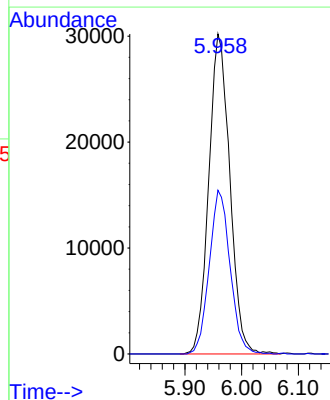
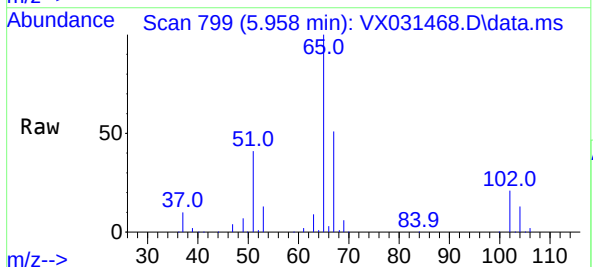
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-TB-20220906RE

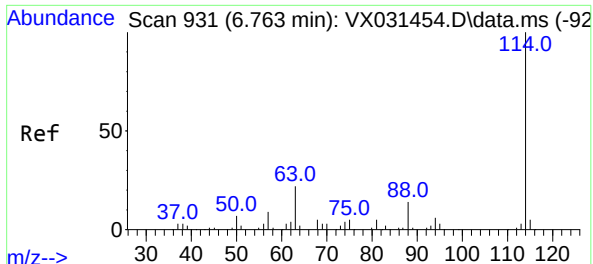
Tgt Ion: 56 Resp: 1695  
Ion Ratio Lower Upper  
56 100  
69 148.2 25.1 37.7#  
84 111.0 70.2 105.4#



#33  
1,2-Dichloroethane-d4  
Concen: 58.937 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

Tgt Ion: 65 Resp: 77841  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 102.4

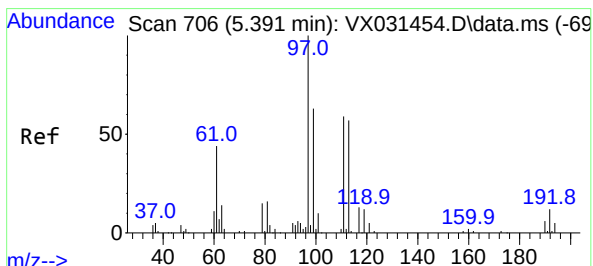
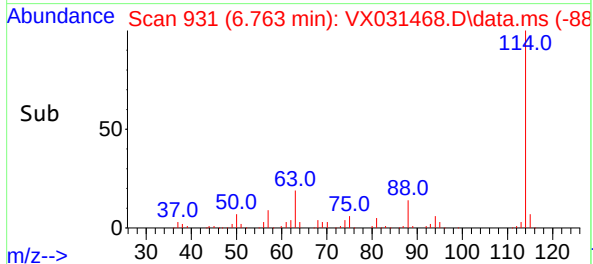
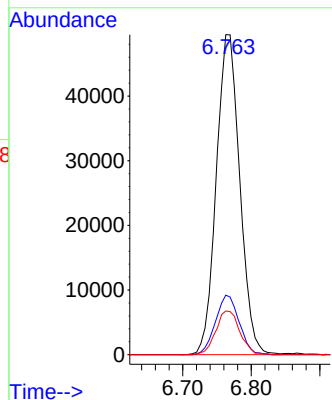
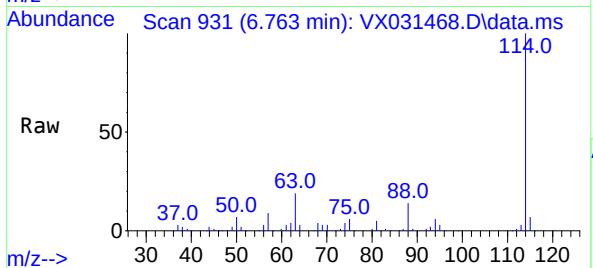




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

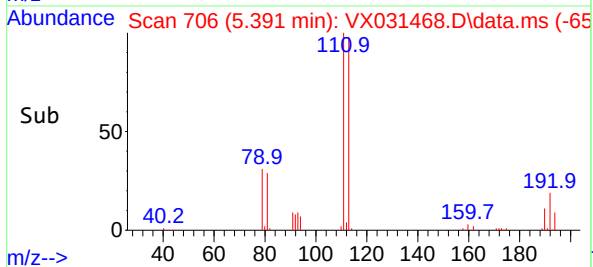
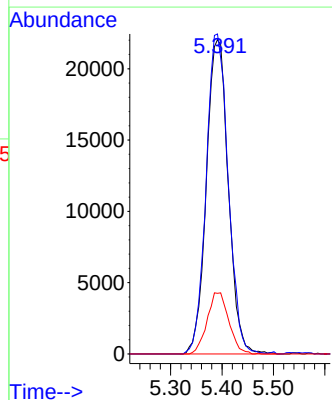
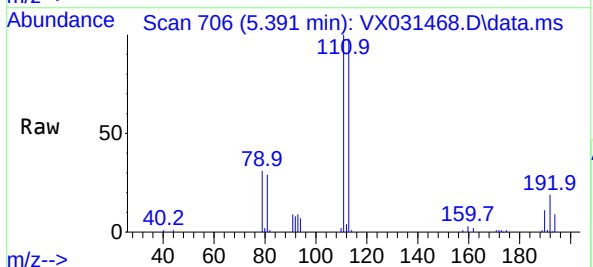
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-TB-20220906RE

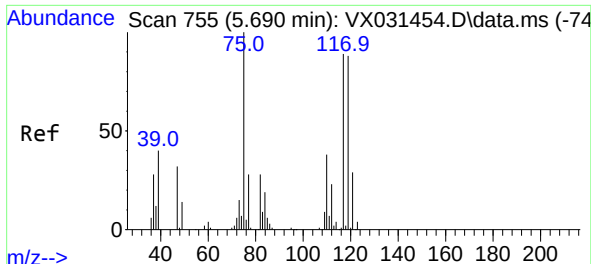
Tgt Ion:114 Resp: 117742  
Ion Ratio Lower Upper  
114 100  
63 18.6 0.0 42.6  
88 13.7 0.0 33.0



#35  
Dibromofluoromethane  
Concen: 53.704 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

Tgt Ion:113 Resp: 65292  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.4 123.6  
192 19.2 14.1 21.1

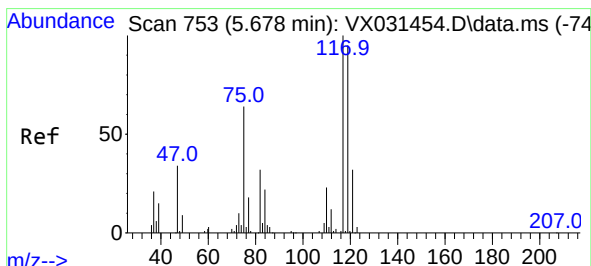
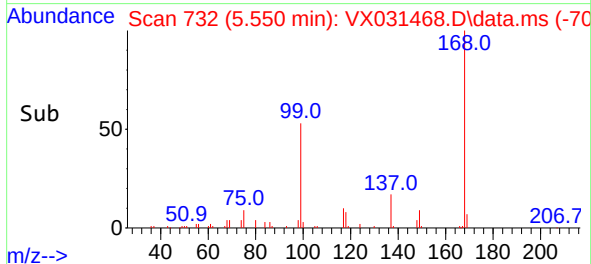
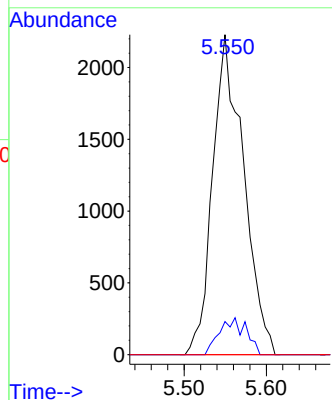
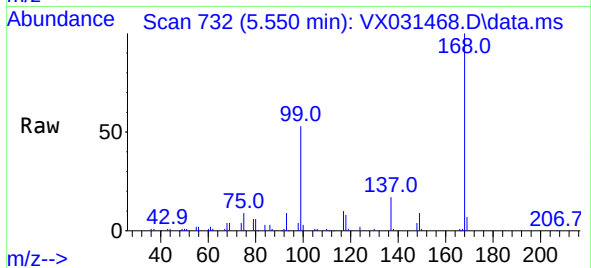




#36  
1,1-Dichloropropene  
Concen: 3.111 ug/l  
RT: 5.550 min Scan# 711  
Delta R.T. -0.140 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

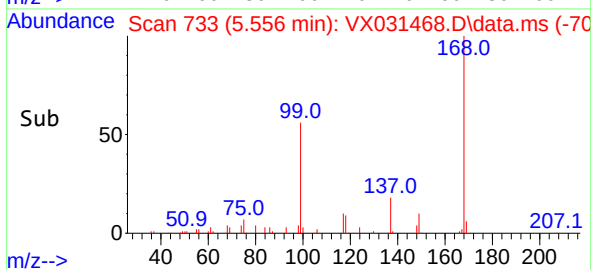
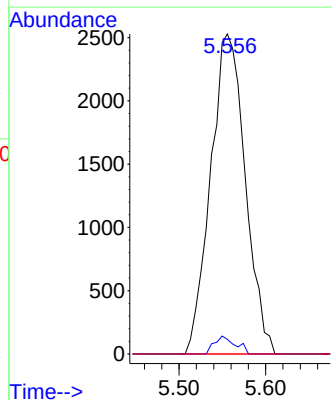
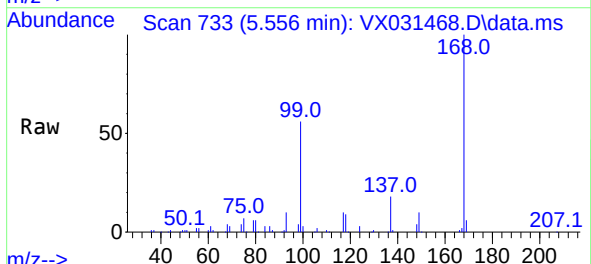
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-TB-20220906RE

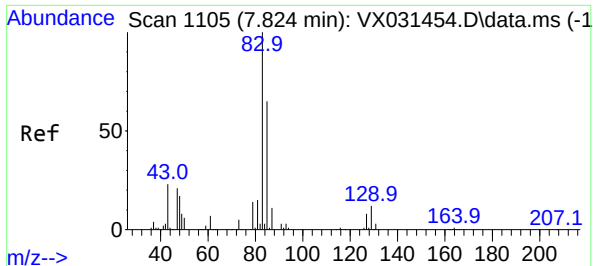
Tgt Ion: 75 Resp: 5822  
Ion Ratio Lower Upper  
75 100  
110 9.9 17.5 52.5#  
77 0.0 24.9 37.3#



#38  
Carbon Tetrachloride  
Concen: 3.388 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.122 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

Tgt Ion: 117 Resp: 7029  
Ion Ratio Lower Upper  
117 100  
119 4.5 74.6 112.0#  
121 0.0 25.3 37.9#





#47

Bromodichloromethane

Concen: 0.482 ug/l

RT: 7.830 min Scan# 1105

Delta R.T. 0.006 min

Lab File: VX031468.D

Acq: 19 Sep 2022 18:26

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW5-TB-20220906RE

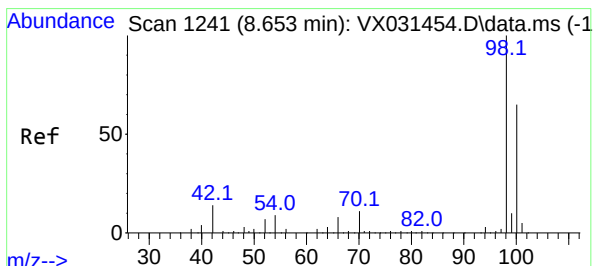
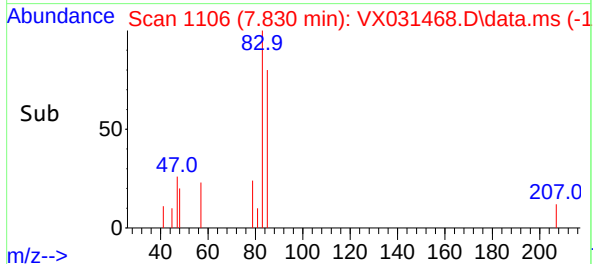
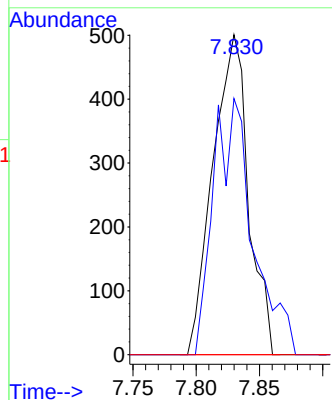
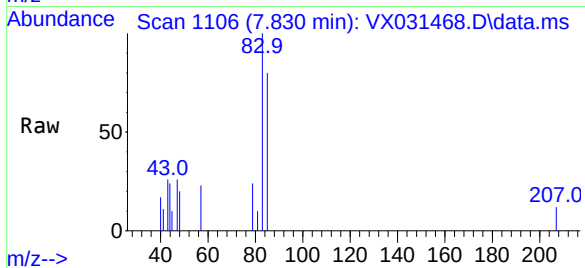
Tgt Ion: 83 Resp: 979

Ion Ratio Lower Upper

83 100

85 80.0 51.0 76.6#

127 0.0 7.0 10.6#



#50

Toluene-d8

Concen: 52.168 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX031468.D

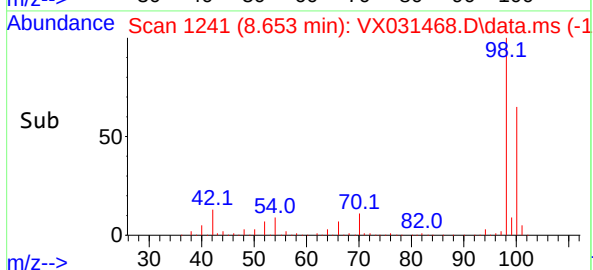
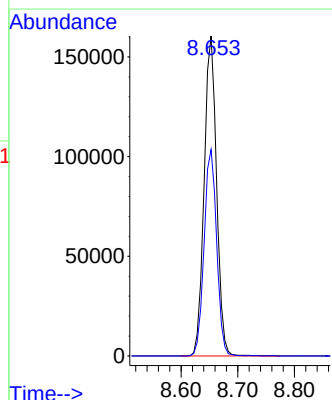
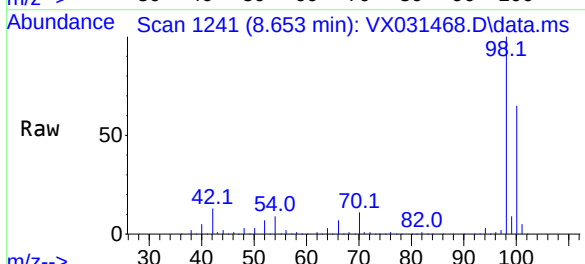
Acq: 19 Sep 2022 18:26

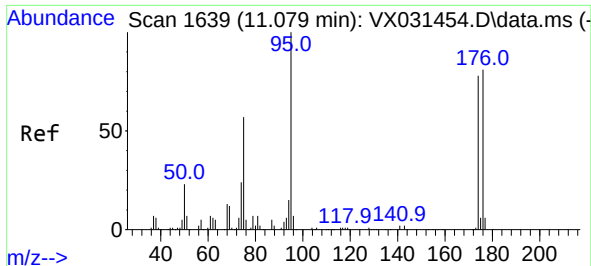
Tgt Ion: 98 Resp: 244719

Ion Ratio Lower Upper

98 100

100 65.0 52.5 78.7

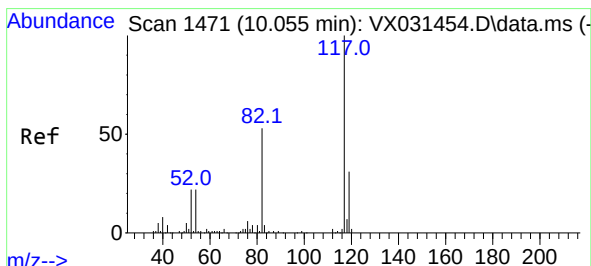
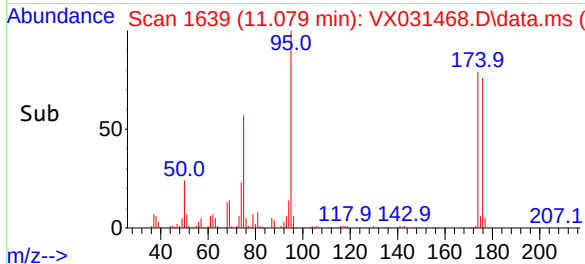
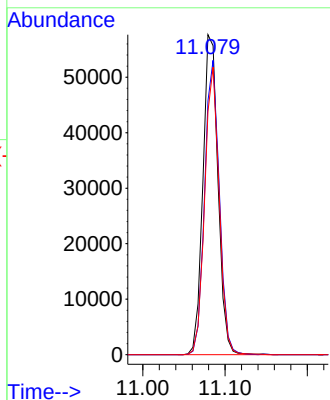
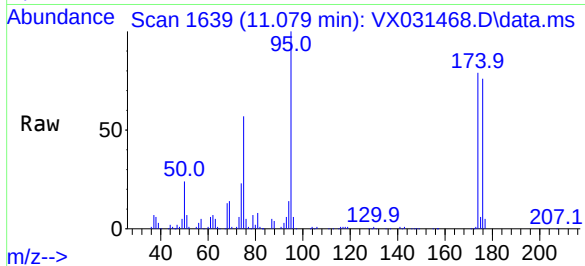




#62  
4-Bromofluorobenzene  
Concen: 46.295 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

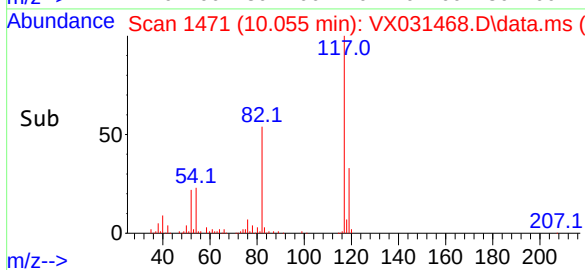
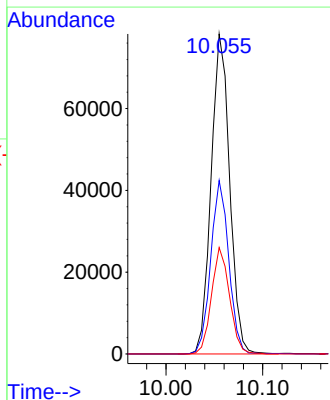
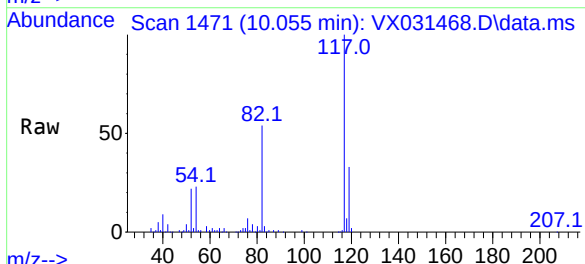
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-TB-20220906RE

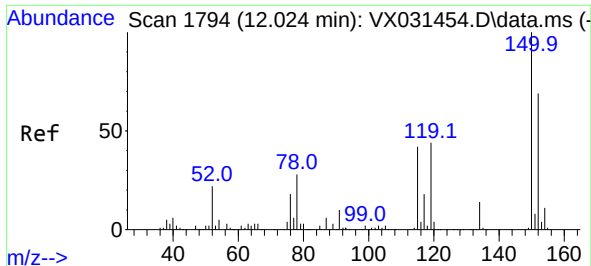
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 73561 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 89.6  | 0.0   | 153.2 |
| 176      | 86.4  | 0.0   | 144.0 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 104278 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 54.2  | 46.8  | 70.2   |
| 119      | 33.2  | 26.4  | 39.6   |

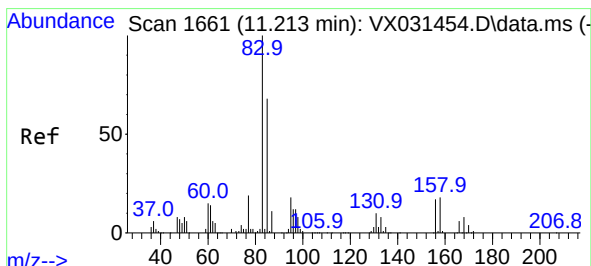
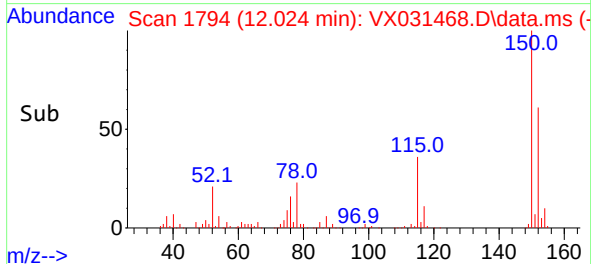
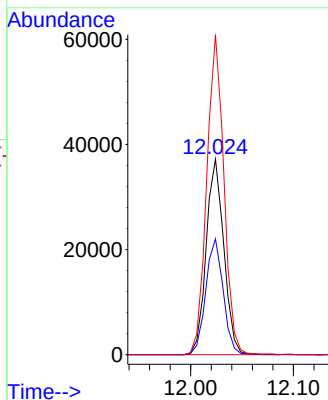
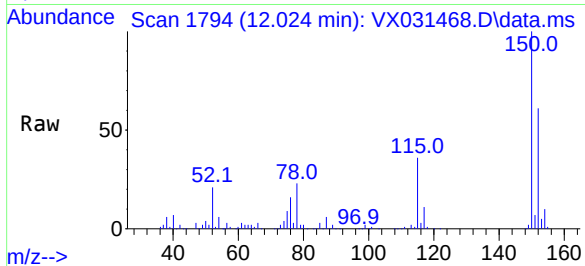




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

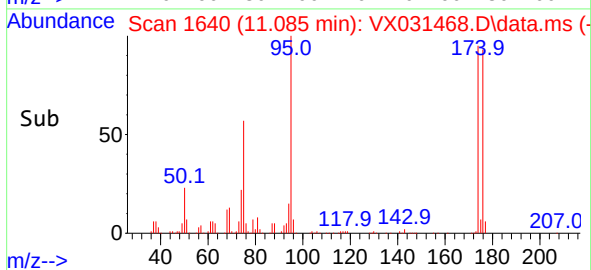
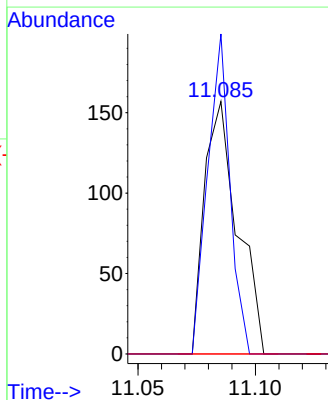
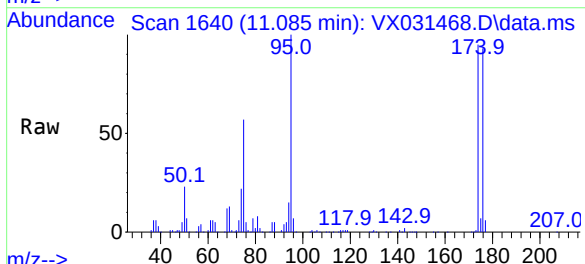
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-TB-20220906RE

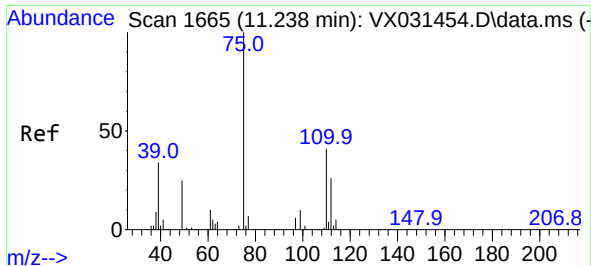
Tgt Ion:152 Resp: 44586  
Ion Ratio Lower Upper  
152 100  
115 58.5 43.4 130.1  
150 158.9 0.0 346.8



#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.128 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

Tgt Ion: 83 Resp: 154  
Ion Ratio Lower Upper  
83 100  
131 85.1 5.1 15.4#  
85 0.0 32.6 97.8#

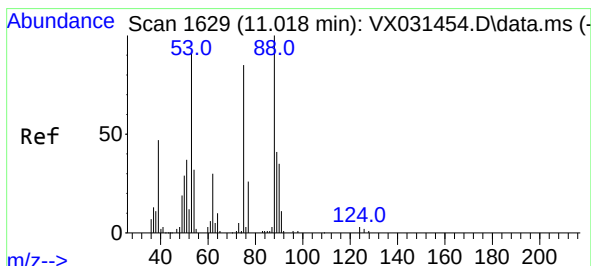
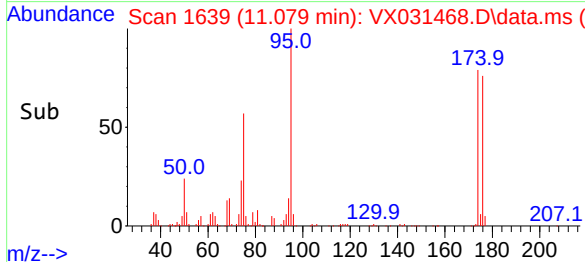
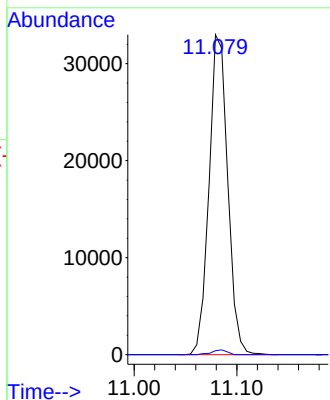
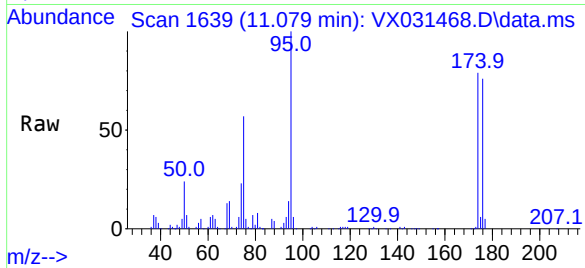




#76  
1,2,3-Trichloropropane  
Concen: 41.945 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

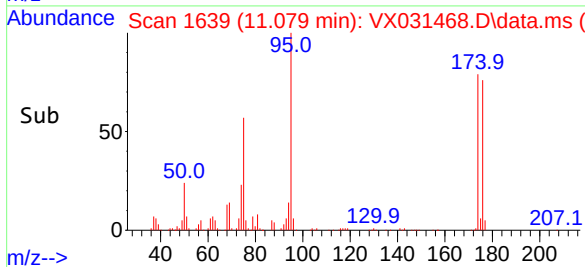
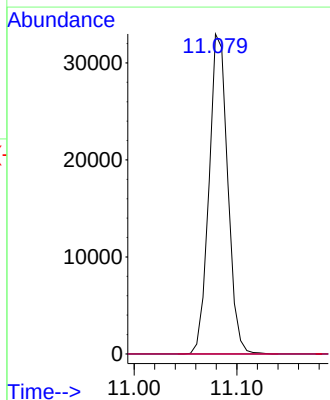
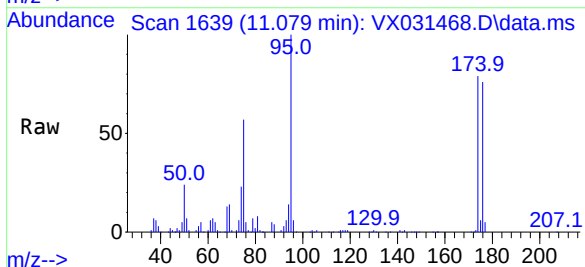
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-TB-20220906RE

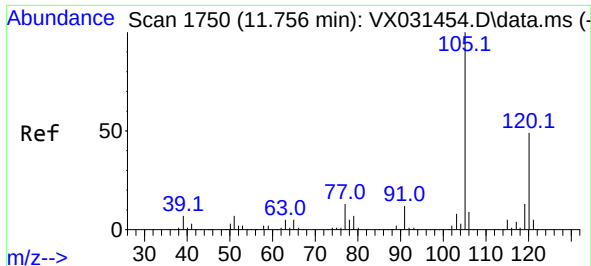
Tgt Ion: 75 Resp: 41740  
Ion Ratio Lower Upper  
75 100  
77 1.2 20.3 60.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 135.057 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX031468.D  
Acq: 19 Sep 2022 18:26

Tgt Ion: 75 Resp: 41740  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.6 116.4#  
89 0.0 37.4 56.0#

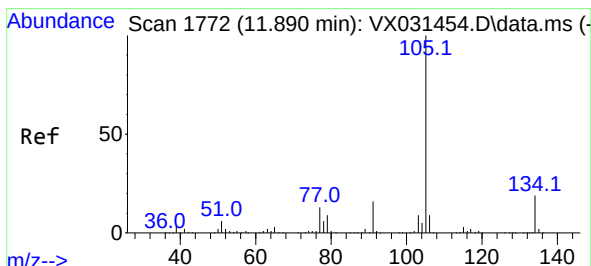
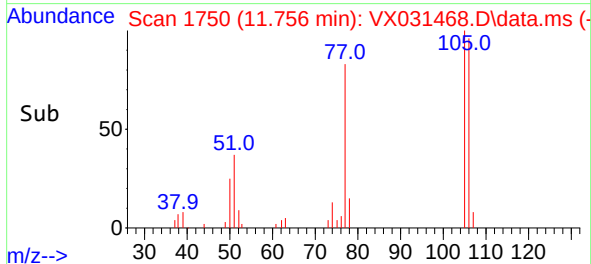
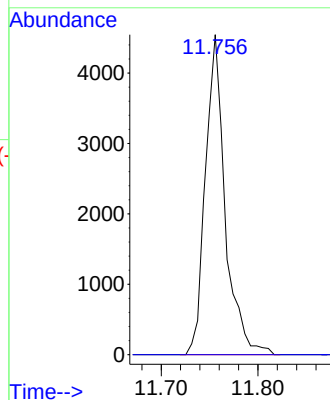
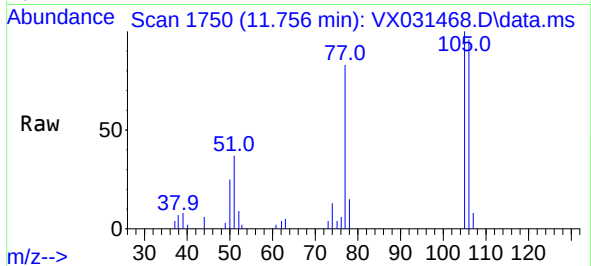




#84  
 1,2,4-Trimethylbenzene  
 Concen: 2.323 ug/l  
 RT: 11.756 min Scan# 1750  
 Delta R.T. -0.000 min  
 Lab File: VX031468.D  
 Acq: 19 Sep 2022 18:26

Instrument : MSVOA\_X  
 ClientSampleId : BP-VPB-RW5-TB-20220906RE

Tgt Ion:105 Resp: 6463  
 Ion Ratio Lower Upper  
 105 100  
 120 0.0 22.6 67.8#



#85  
 sec-Butylbenzene  
 Concen: 1.865 ug/l  
 RT: 11.756 min Scan# 1750  
 Delta R.T. -0.134 min  
 Lab File: VX031468.D  
 Acq: 19 Sep 2022 18:26

Tgt Ion:105 Resp: 6463  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 10.4 31.1#

