

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091922\  
 Data File : VX031479.D  
 Acq On : 19 Sep 2022 22:44  
 Operator : JC/MD  
 Sample : N4688-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB-RW5-GW-478-480RE

Quant Time: Sep 20 09:51:17 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

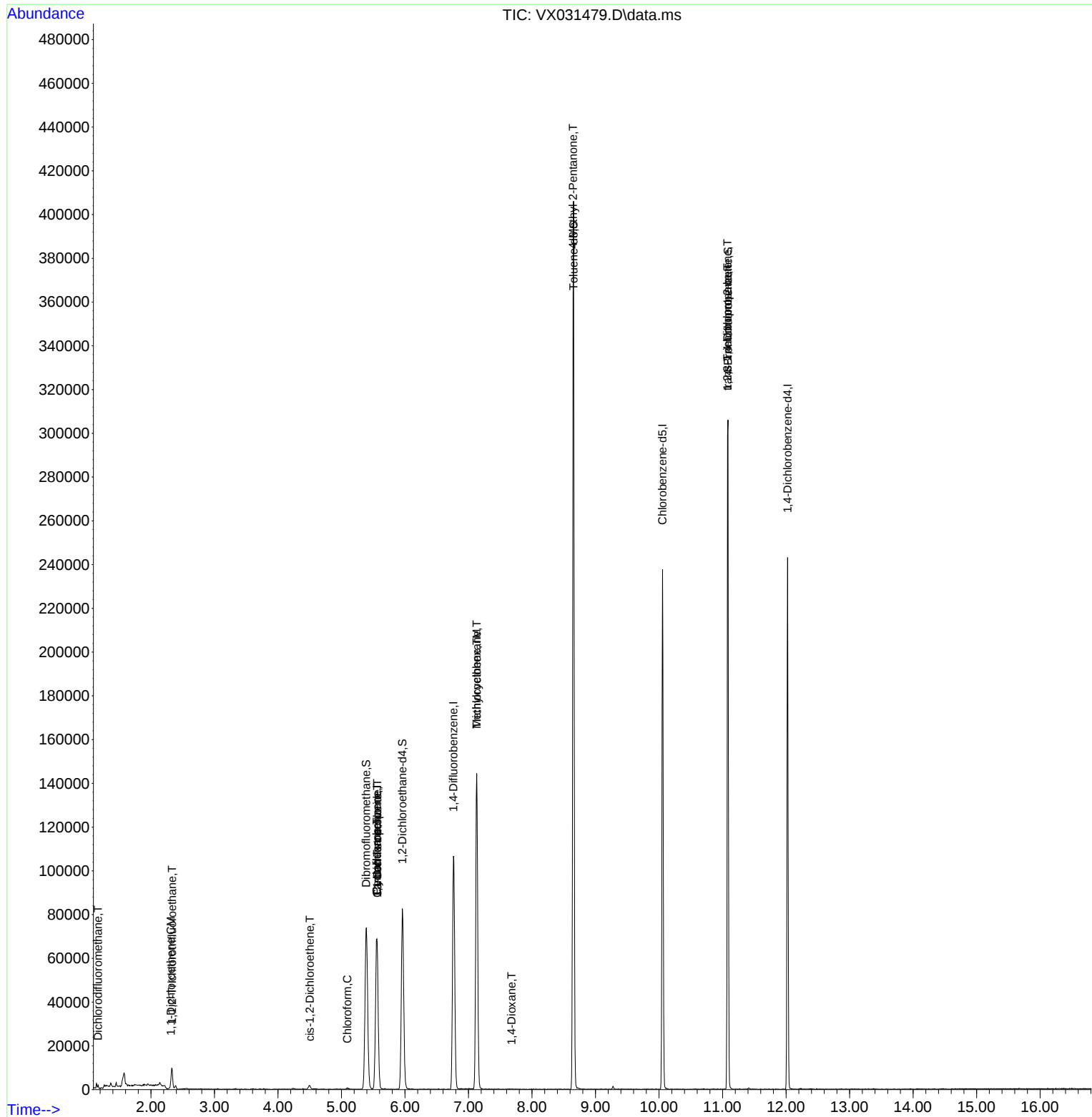
| Compound                      | R.T. QIon |       | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|--------|----------|
| -----                         |           |       |          |           |        |          |
| Internal Standards            |           |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556     | 168   | 67368    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763     | 114   | 110672   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 101291   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 45055    | 50.000    | ug/l   | 0.00     |
|                               |           |       |          |           |        |          |
| System Monitoring Compounds   |           |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958     | 65    | 72460    | 58.728    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 74 - 125 | Recovery  | =      | 117.460% |
| 35) Dibromofluoromethane      | 5.385     | 113   | 60399    | 52.842    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery  | =      | 105.680% |
| 50) Toluene-d8                | 8.653     | 98    | 225501   | 51.142    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 86 - 113 | Recovery  | =      | 102.280% |
| 62) 4-Bromofluorobenzene      | 11.085    | 95    | 67143    | 44.955    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery  | =      | 89.920%  |
|                               |           |       |          |           |        |          |
| Target Compounds              |           |       |          |           |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.166     | 85    | 607      | 0.627     | ug/l   | 86       |
| 6) Chloroethane               | 1.685     | 64    | 198      | Below Cal | #      | 43       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331     | 101   | 3143     | 2.897     | ug/l   | 90       |
| 12) 1,1-Dichloroethene        | 2.312     | 96    | 511      | 0.487     | ug/l # | 58       |
| 13) Acrolein                  | 2.233     | 56    | 55       | Below Cal | #      | 30       |
| 16) Acetone                   | 2.380     | 43    | 1495     | Below Cal |        | 100      |
| 20) Methylene Chloride        | 2.788     | 84    | 45       | Below Cal | #      | 52       |
| 27) cis-1,2-Dichloroethene    | 4.501     | 96    | 1258     | 0.881     | ug/l   | 66       |
| 30) Chloroform                | 5.092     | 83    | 684      | 0.298     | ug/l   | 85       |
| 31) Cyclohexane               | 5.556     | 56    | 1736     | 0.947     | ug/l # | 24       |
| 36) 1,1-Dichloropropene       | 5.562     | 75    | 5339     | 3.035     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.562     | 117   | 6450     | 3.308     | ug/l # | 17       |
| 39) Methylcyclohexane         | 7.129     | 83    | 689      | 0.318     | ug/l # | 1        |
| 44) Trichloroethene           | 7.129     | 130   | 52778    | 35.468    | ug/l   | 96       |
| 49) 1,4-Dioxane               | 7.677     | 88    | 146      | 4.338     | ug/l # | 32       |
| 51) 4-Methyl-2-Pentanone      | 8.647     | 43    | 1168     | 0.563     | ug/l # | 1        |
| 75) 1,1,2,2-Tetrachloroethane | 11.085    | 83    | 132      | Below Cal | #      | 25       |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75    | 39707    | 39.487    | ug/l # | 36       |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75    | 39707    | 127.141   | ug/l # | 11       |
| -----                         |           |       |          |           |        |          |

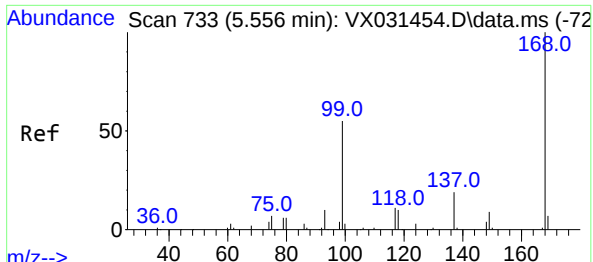
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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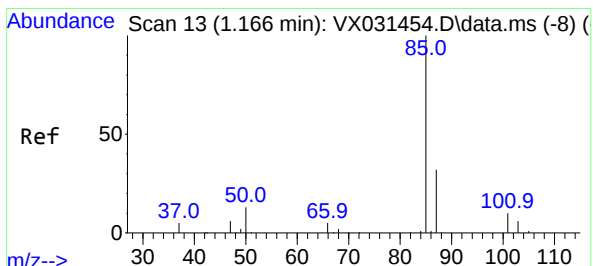
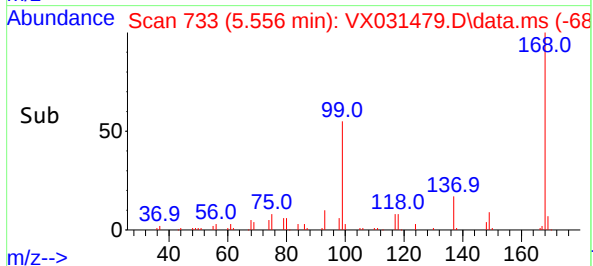
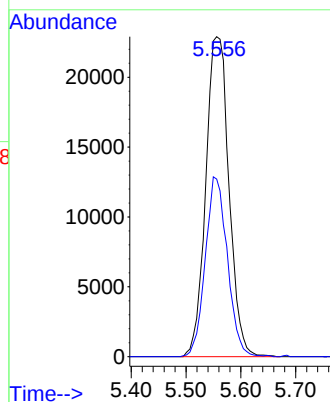
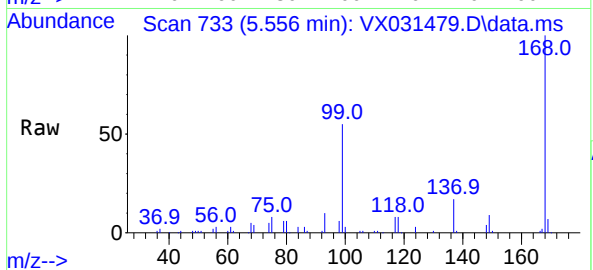




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

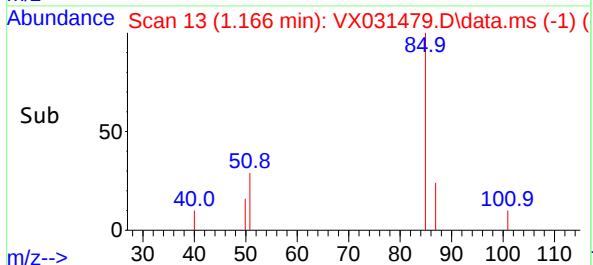
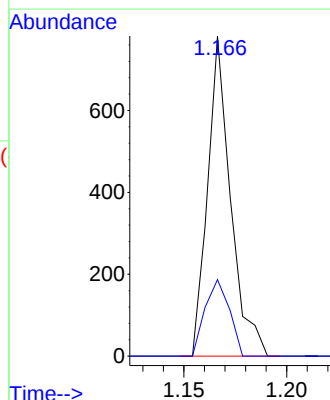
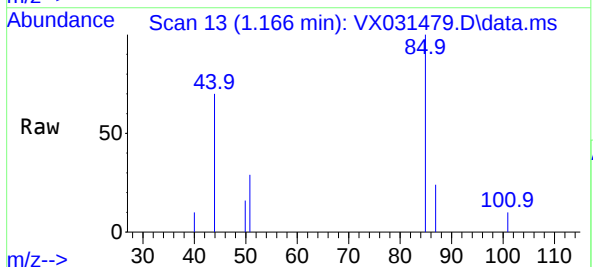
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-GW-478-480RE

Tgt Ion:168 Resp: 67368  
Ion Ratio Lower Upper  
168 100  
99 55.5 48.8 73.2

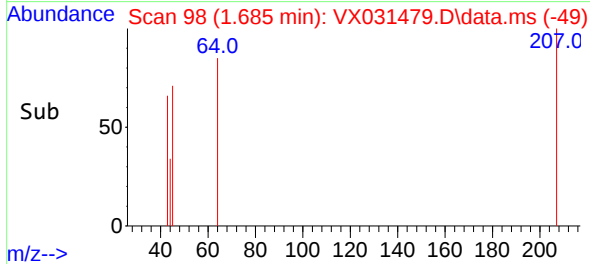
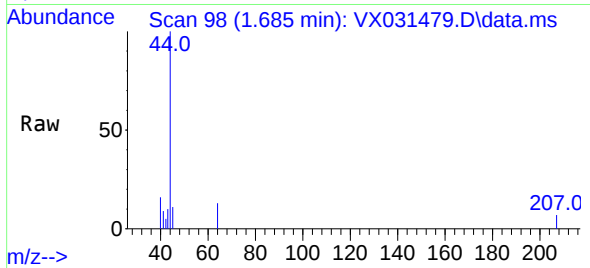
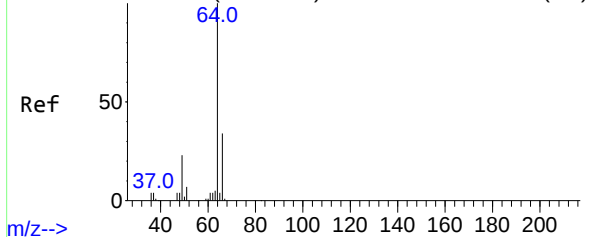


#2  
Dichlorodifluoromethane  
Concen: 0.627 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

Tgt Ion: 85 Resp: 607  
Ion Ratio Lower Upper  
85 100  
87 23.9 15.8 47.4



Abundance Scan 98 (1.685 min): VX031454.D\data.ms (-92)



#6

Chloroethane

Concen: Below Cal

RT: 1.685 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX031479.D

Acq: 19 Sep 2022 22:44

Instrument :

MSVOA\_X

ClientSampleId :

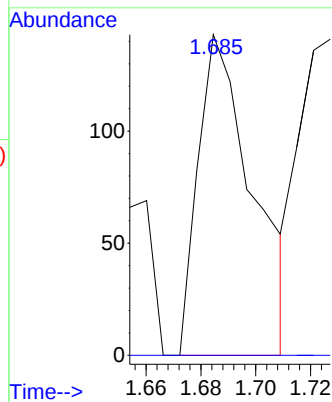
BP-VPB-RW5-GW-478-480RE

Tgt Ion: 64 Resp: 198

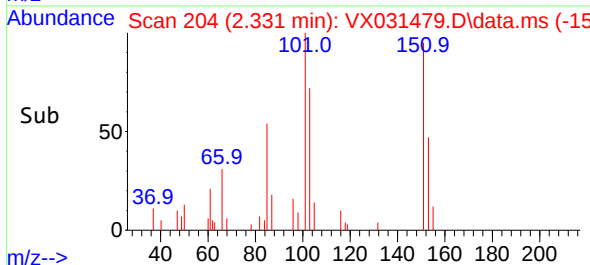
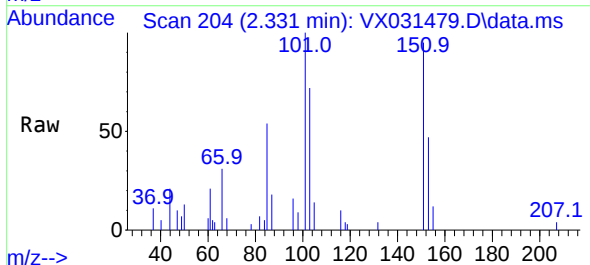
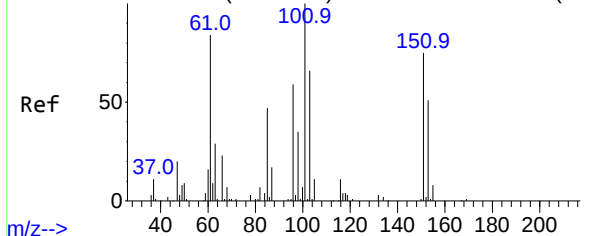
Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.4#



Abundance Scan 204 (2.331 min): VX031454.D\data.ms (-19)



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.897 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.000 min

Lab File: VX031479.D

Acq: 19 Sep 2022 22:44

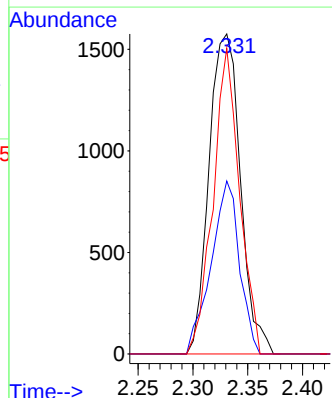
Tgt Ion:101 Resp: 3143

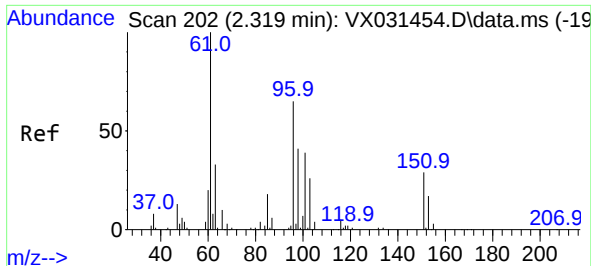
Ion Ratio Lower Upper

101 100

85 48.8 38.6 57.8

151 80.5 54.0 81.0

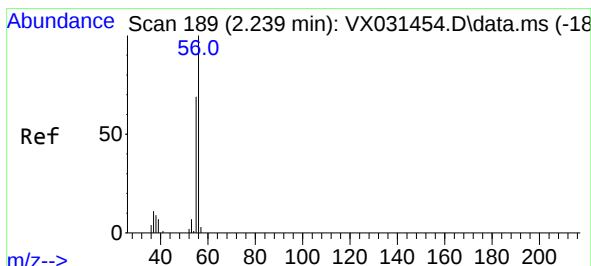
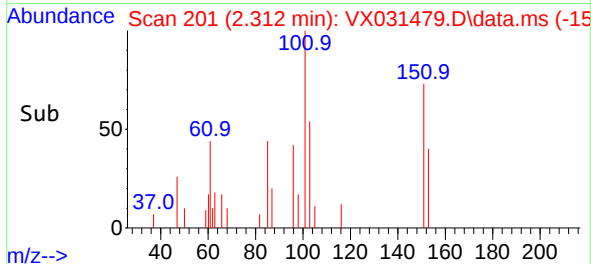
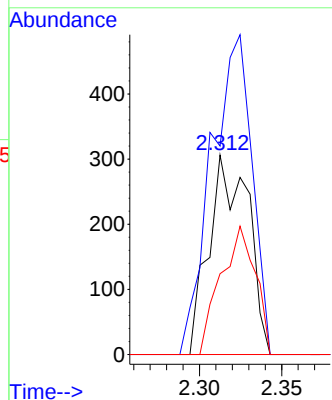
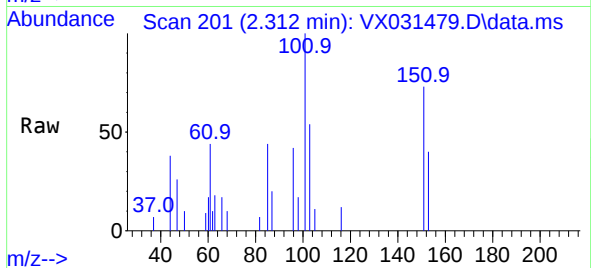




#12  
1,1-Dichloroethene  
Concen: 0.487 ug/l  
RT: 2.312 min Scan# 20  
Delta R.T. -0.007 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

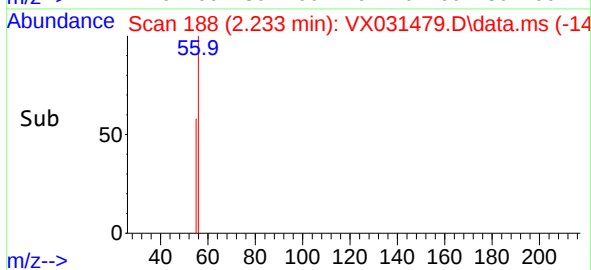
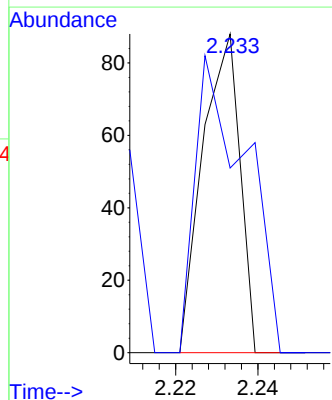
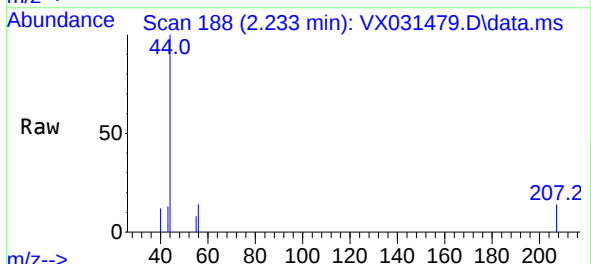
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-GW-478-480RE

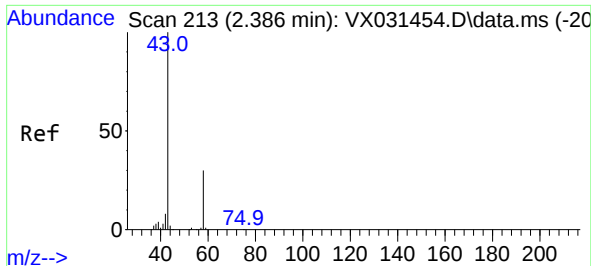
Tgt Ion: 96 Resp: 511  
Ion Ratio Lower Upper  
96 100  
61 104.6 135.3 202.9#  
98 40.5 49.4 74.2#



#13  
Acrolein  
Concen: Below Cal  
RT: 2.233 min Scan# 188  
Delta R.T. -0.006 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

Tgt Ion: 56 Resp: 55  
Ion Ratio Lower Upper  
56 100  
55 127.3 56.0 84.0#

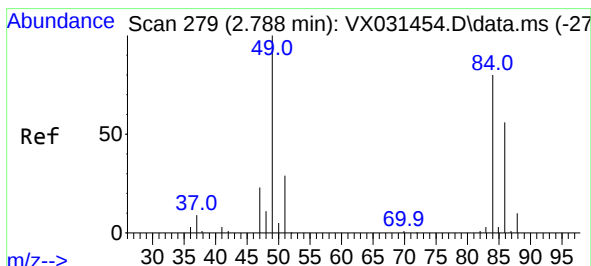
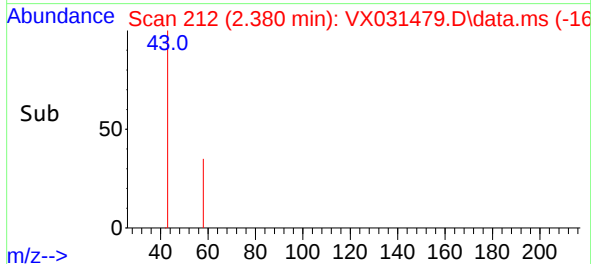
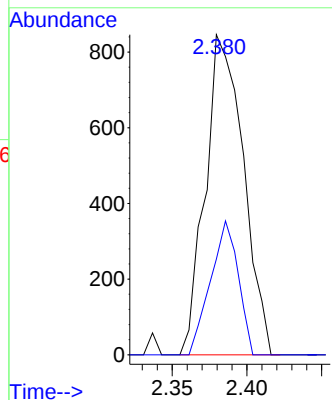
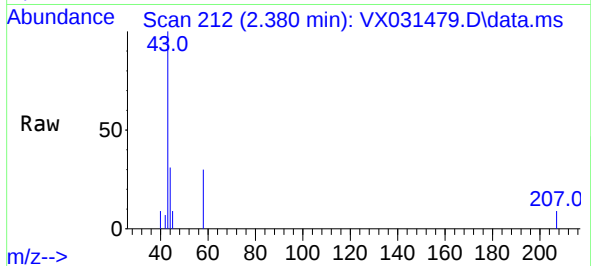




#16  
Acetone  
Concen: Below Cal  
RT: 2.380 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

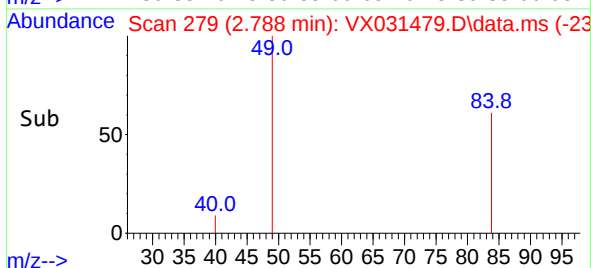
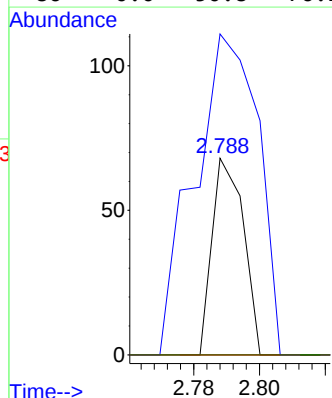
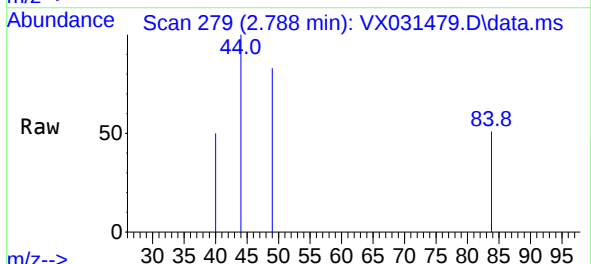
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MSVOA\_X  
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BP-VPB-RW5-GW-478-480RE

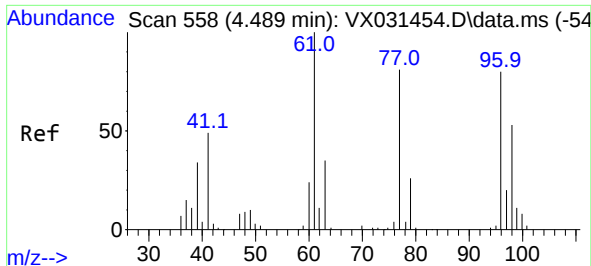
Tgt Ion: 43 Resp: 1495  
Ion Ratio Lower Upper  
43 100  
58 29.9 23.8 35.8



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.788 min Scan# 279  
Delta R.T. -0.000 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

Tgt Ion: 84 Resp: 45  
Ion Ratio Lower Upper  
84 100  
49 163.2 105.9 158.9#  
51 0.0 32.2 48.2#  
86 0.0 50.8 76.2#

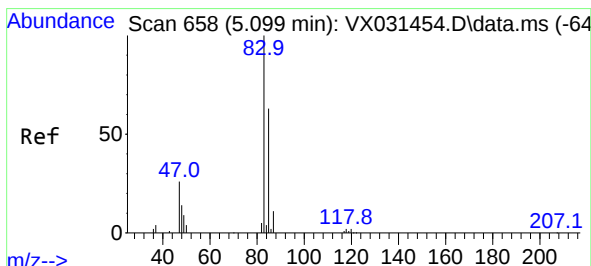
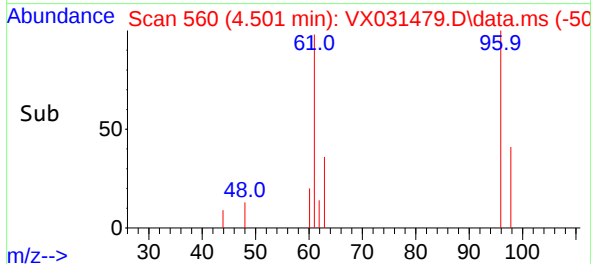
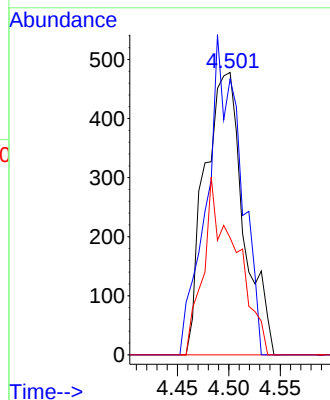
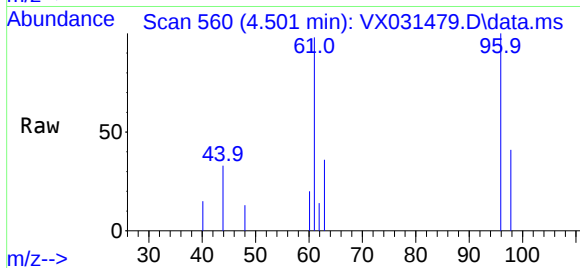




#27  
cis-1,2-Dichloroethene  
Concen: 0.881 ug/l  
RT: 4.501 min Scan# 501  
Delta R.T. 0.012 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

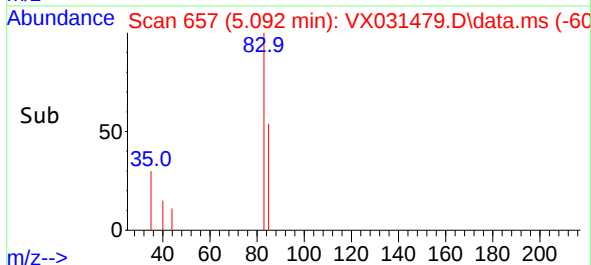
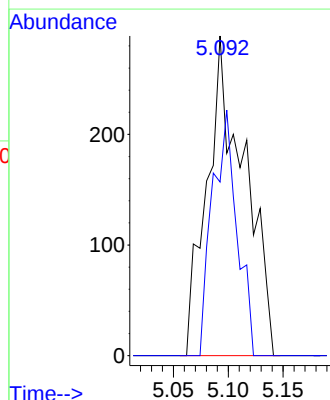
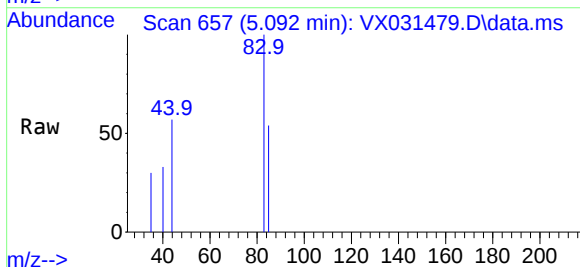
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ClientSampleId :  
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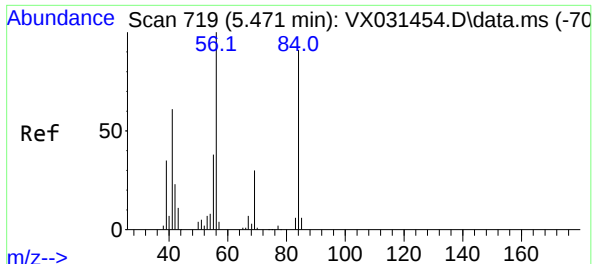
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|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 1258  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 97.9  | 0.0   | 305.2 |
| 98       | 52.5  | 0.0   | 128.4 |



#30  
Chloroform  
Concen: 0.298 ug/l  
RT: 5.092 min Scan# 657  
Delta R.T. -0.007 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

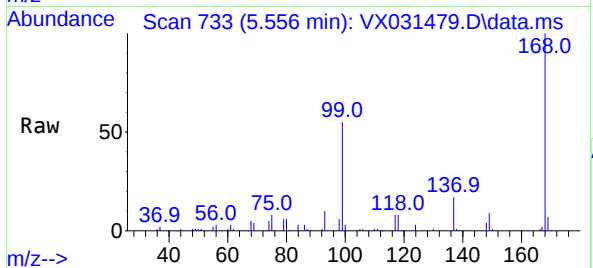
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 684   |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 54.3  | 52.8  | 79.2  |



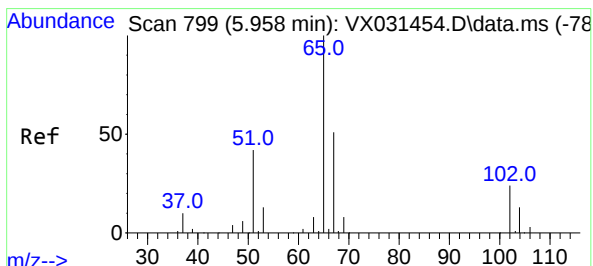
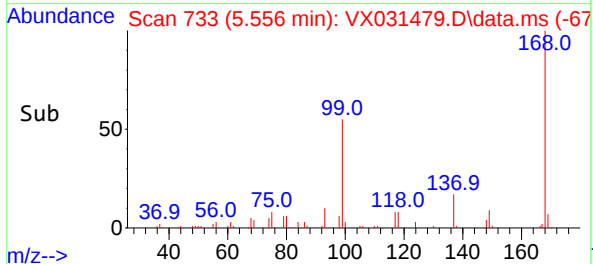
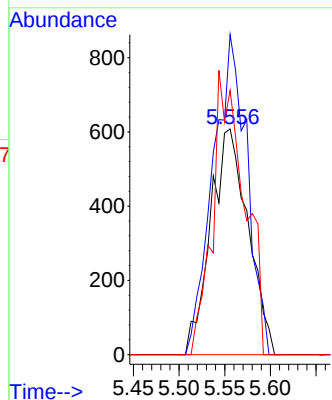


#31  
Cyclohexane  
Concen: 0.947 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.085 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-GW-478-480RE

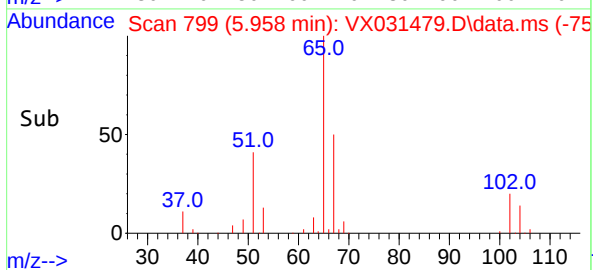
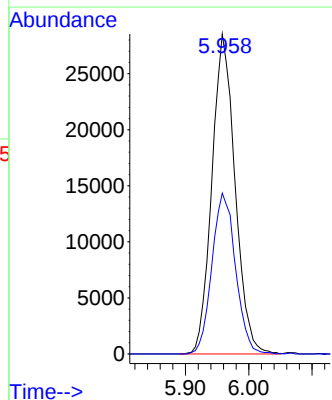
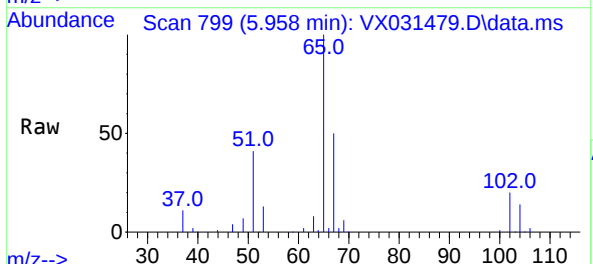


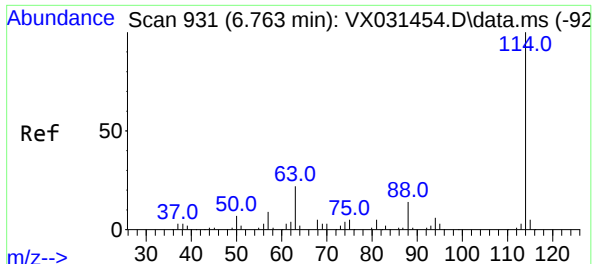
Tgt Ion: 56 Resp: 1736  
Ion Ratio Lower Upper  
56 100  
69 141.8 25.1 37.7#  
84 117.1 70.2 105.4#



#33  
1,2-Dichloroethane-d4  
Concen: 58.728 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

Tgt Ion: 65 Resp: 72460  
Ion Ratio Lower Upper  
65 100  
67 51.2 0.0 102.4

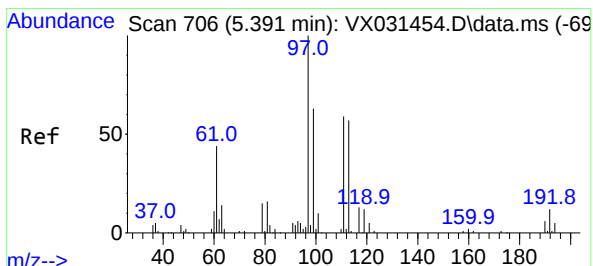
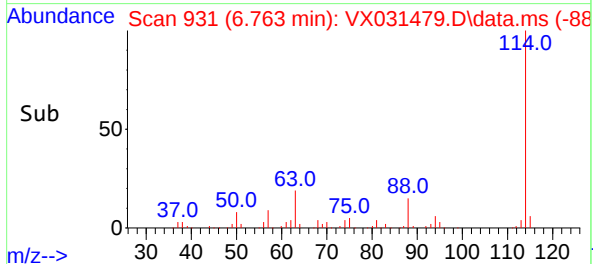
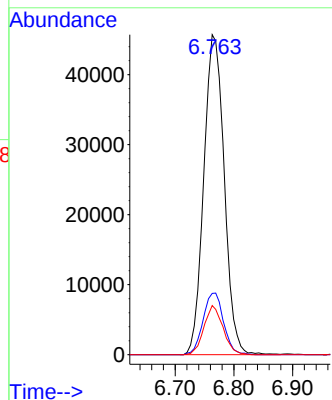
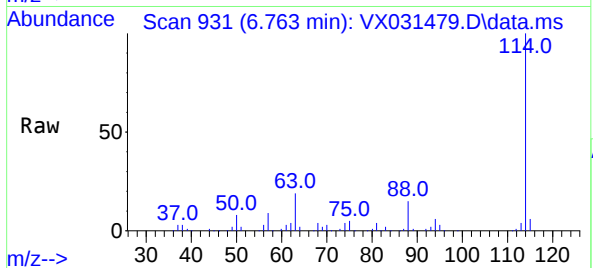




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

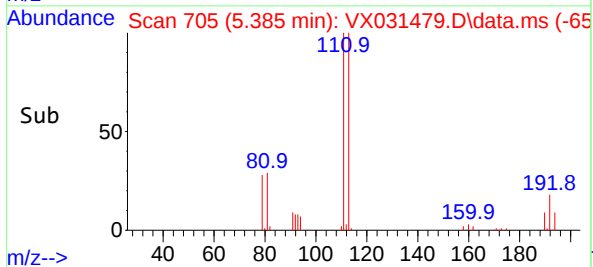
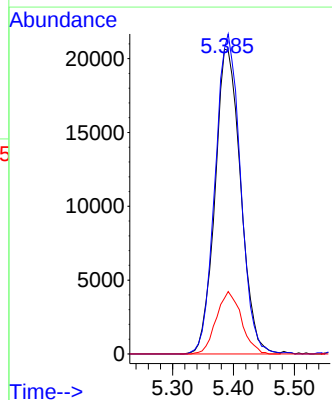
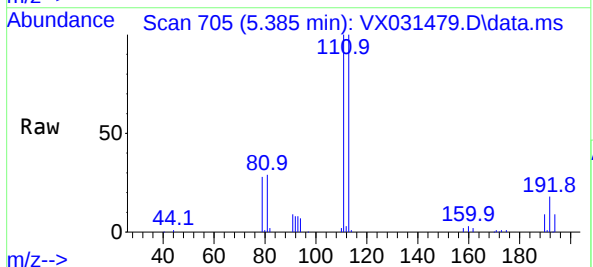
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-GW-478-480RE

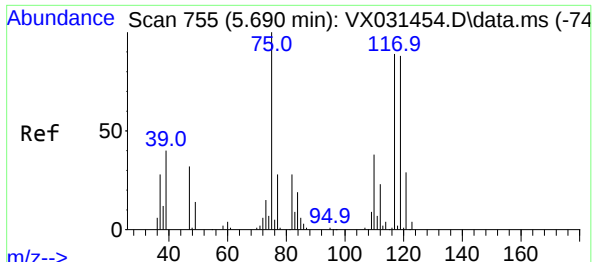
Tgt Ion:114 Resp: 110672  
Ion Ratio Lower Upper  
114 100  
63 19.1 0.0 42.6  
88 15.3 0.0 33.0



#35  
Dibromofluoromethane  
Concen: 52.842 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.006 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

Tgt Ion:113 Resp: 60399  
Ion Ratio Lower Upper  
113 100  
111 103.5 82.4 123.6  
192 20.0 14.1 21.1

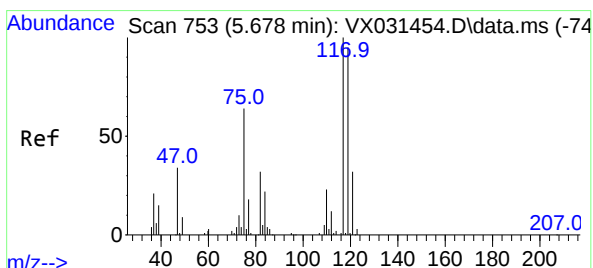
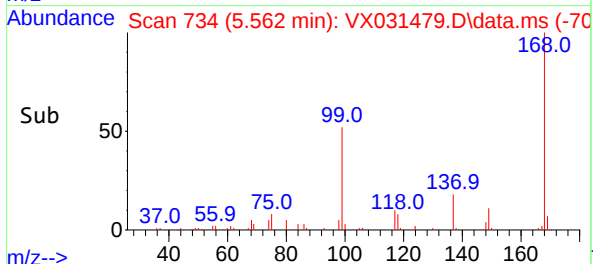
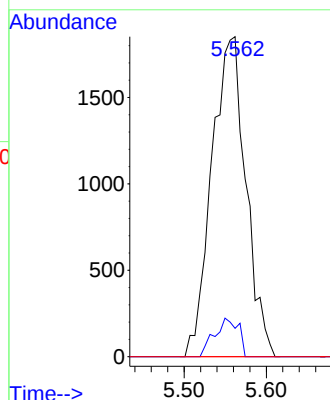
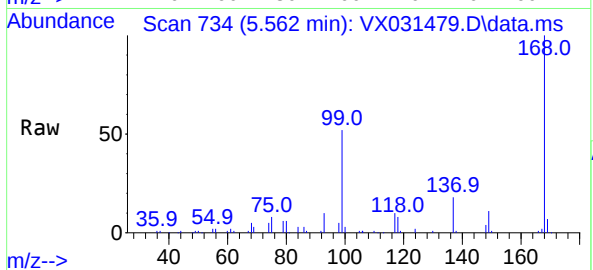




#36  
1,1-Dichloropropene  
Concen: 3.035 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

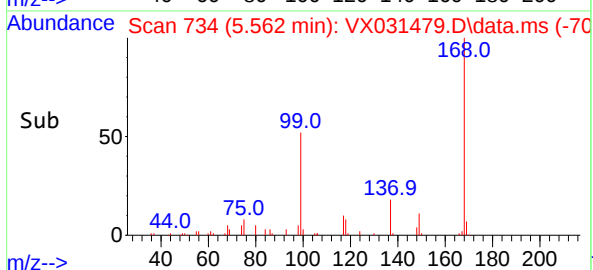
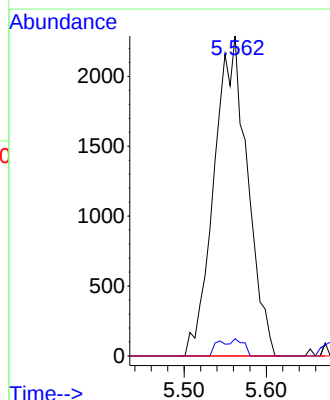
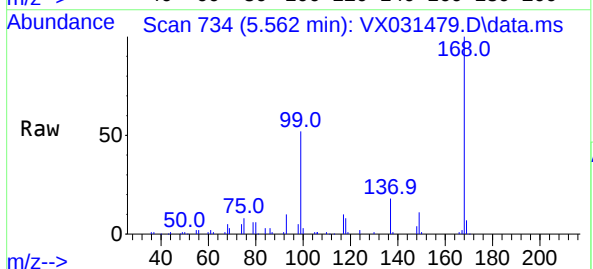
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-GW-478-480RE

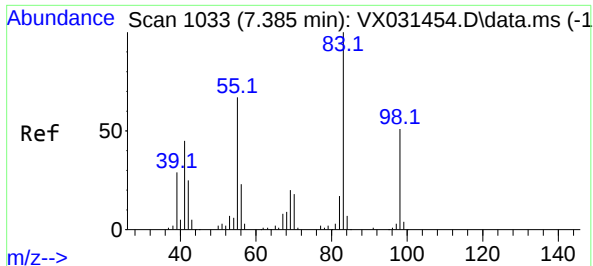
Tgt Ion: 75 Resp: 5339  
Ion Ratio Lower Upper  
75 100  
110 8.4 17.5 52.5#  
77 0.0 24.9 37.3#



#38  
Carbon Tetrachloride  
Concen: 3.308 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.116 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

Tgt Ion: 117 Resp: 6450  
Ion Ratio Lower Upper  
117 100  
119 5.4 74.6 112.0#  
121 0.0 25.3 37.9#

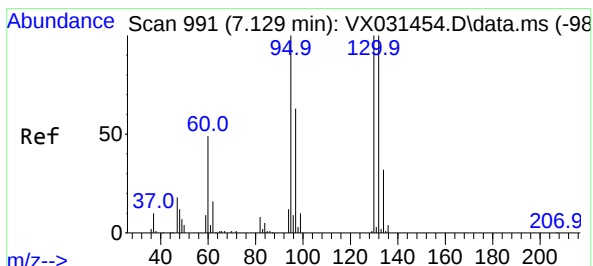
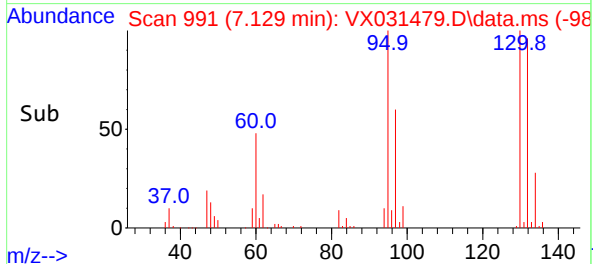
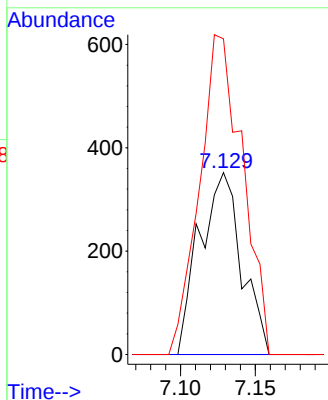
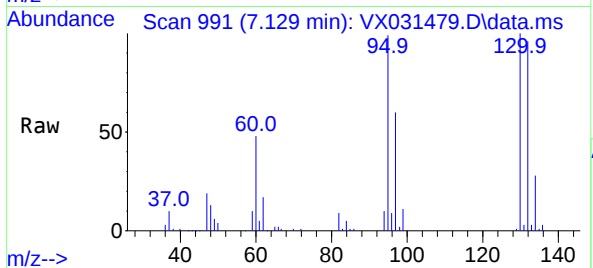




#39  
Methylcyclohexane  
Concen: 0.318 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.256 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

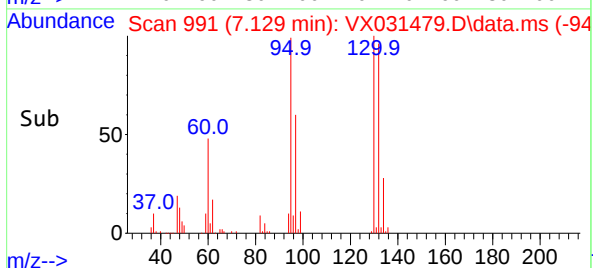
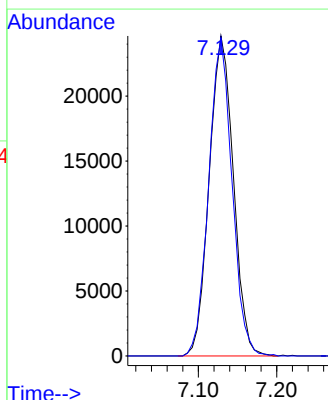
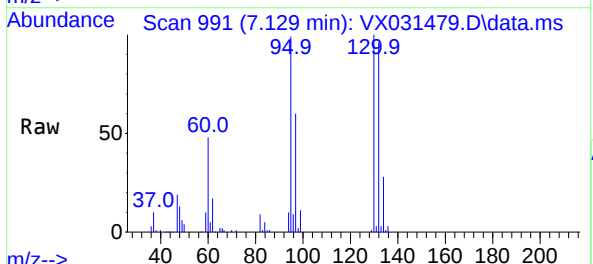
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-GW-478-480RE

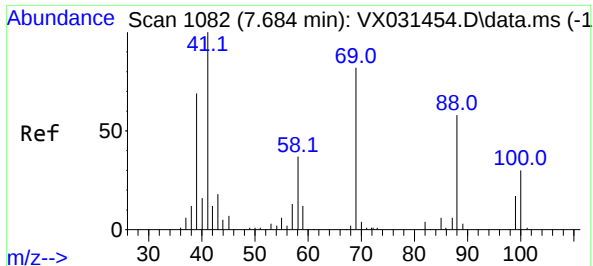
Tgt Ion: 83 Resp: 689  
Ion Ratio Lower Upper  
83 100  
55 0.0 61.0 91.4#  
98 173.6 37.7 56.5#



#44  
Trichloroethene  
Concen: 35.468 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

Tgt Ion:130 Resp: 52778  
Ion Ratio Lower Upper  
130 100  
95 99.4 0.0 206.8





#49

1,4-Dioxane

Concen: 4.338 ug/l

RT: 7.677 min Scan# 1081

Delta R.T. -0.007 min

Lab File: VX031479.D

Acq: 19 Sep 2022 22:44

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW5-GW-478-480RE

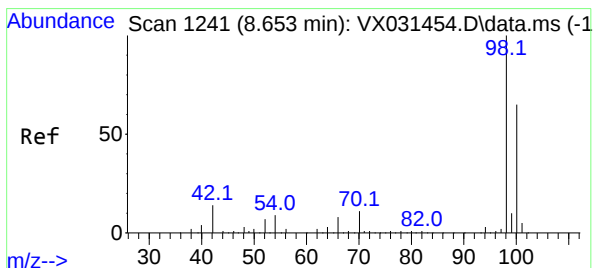
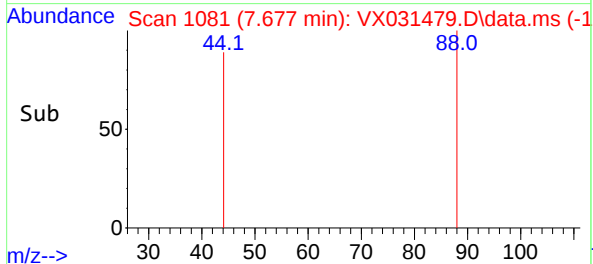
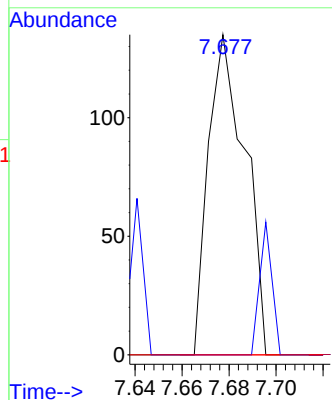
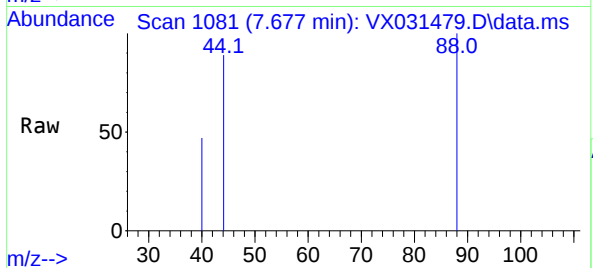
Tgt Ion: 88 Resp: 146

Ion Ratio Lower Upper

88 100

43 13.7 27.1 40.7#

58 0.0 53.9 80.9#



#50

Toluene-d8

Concen: 51.142 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX031479.D

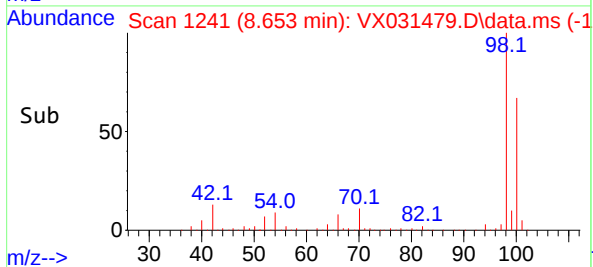
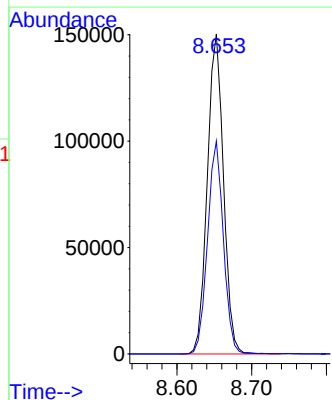
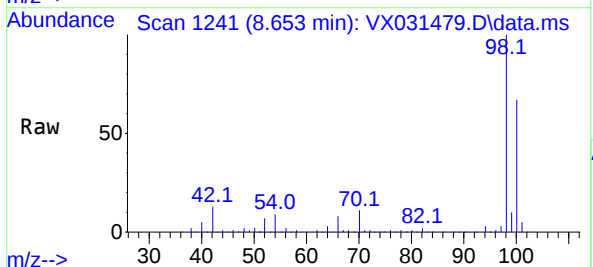
Acq: 19 Sep 2022 22:44

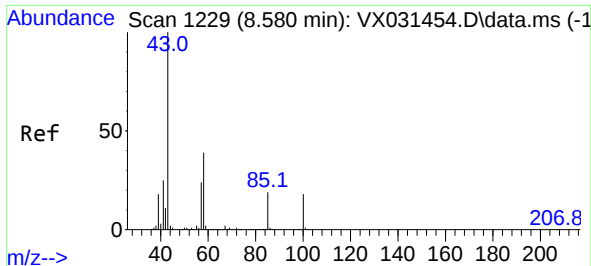
Tgt Ion: 98 Resp: 225501

Ion Ratio Lower Upper

98 100

100 65.2 52.5 78.7

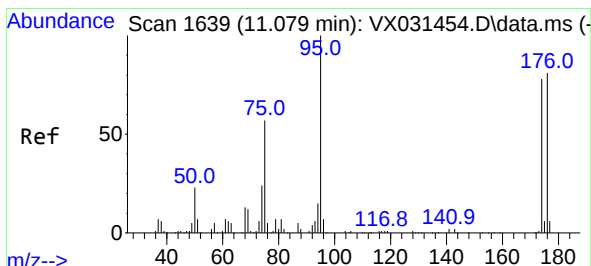
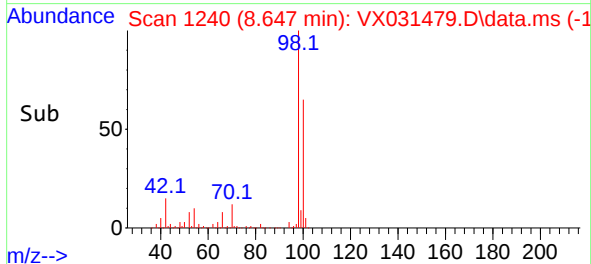
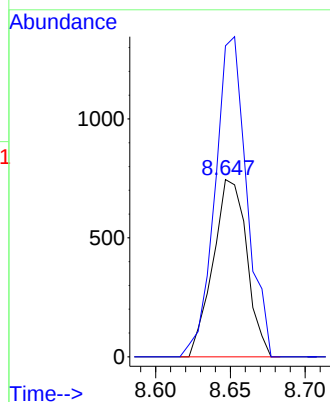
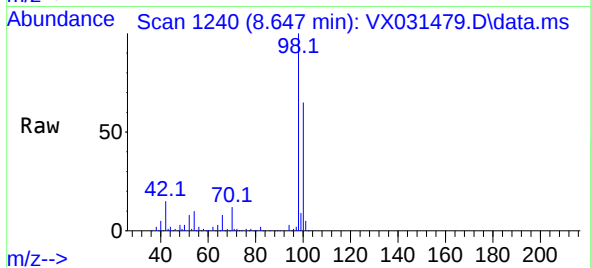




#51  
4-Methyl-2-Pentanone  
Concen: 0.563 ug/l  
RT: 8.647 min Scan# 1168  
Delta R.T. 0.067 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

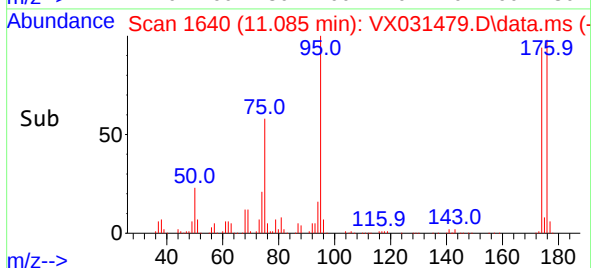
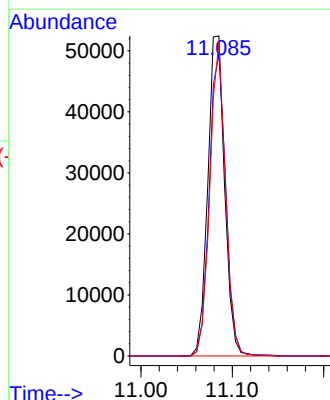
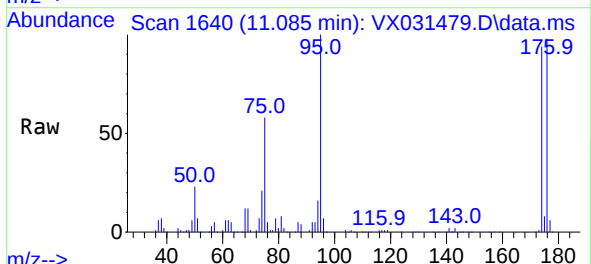
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-GW-478-480RE

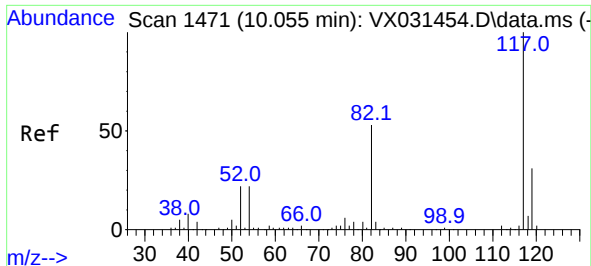
Tgt Ion: 43 Resp: 1168  
Ion Ratio Lower Upper  
43 100  
58 170.0 30.6 46.0#



#62  
4-Bromofluorobenzene  
Concen: 44.955 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.006 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

Tgt Ion: 95 Resp: 67143  
Ion Ratio Lower Upper  
95 100  
174 92.0 0.0 153.2  
176 91.0 0.0 144.0

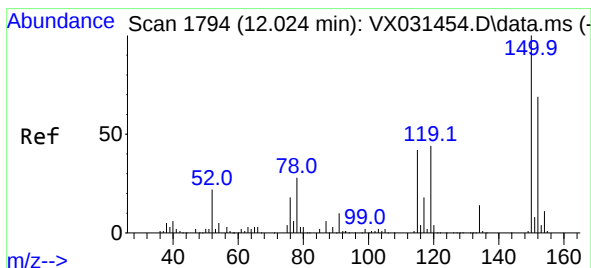
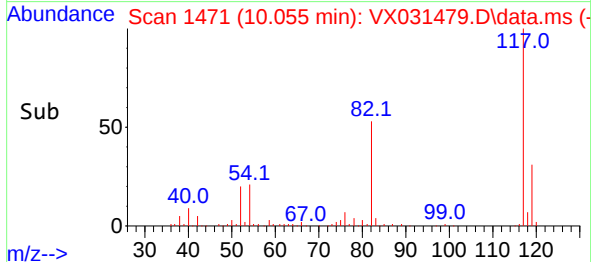
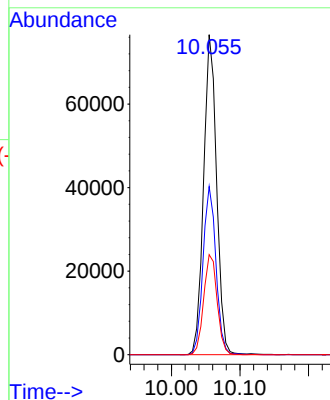
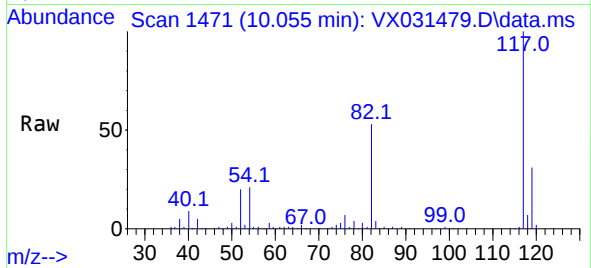




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

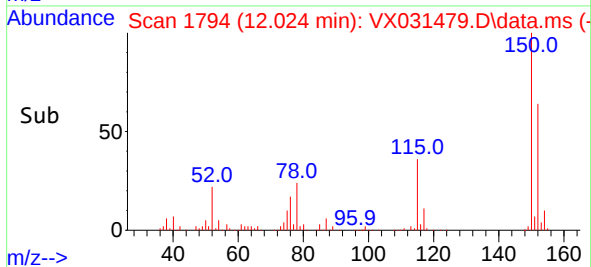
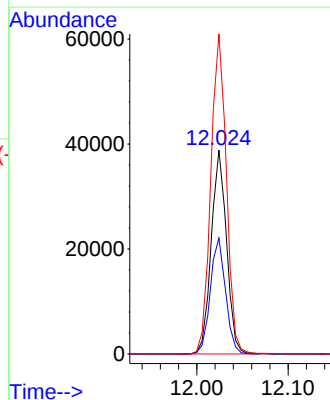
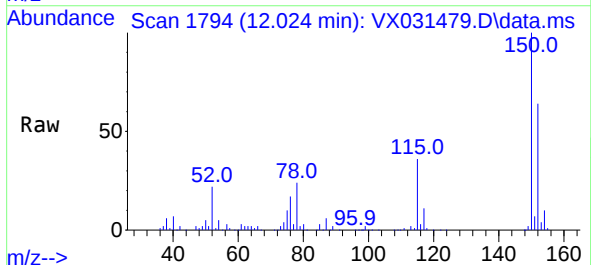
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-GW-478-480RE

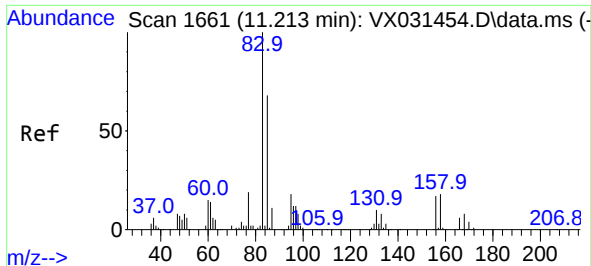
Tgt Ion:117 Resp: 101291  
Ion Ratio Lower Upper  
117 100  
82 52.6 46.8 70.2  
119 31.3 26.4 39.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

Tgt Ion:152 Resp: 45055  
Ion Ratio Lower Upper  
152 100  
115 56.6 43.4 130.1  
150 159.5 0.0 346.8

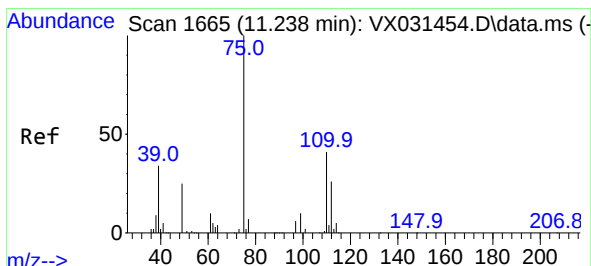
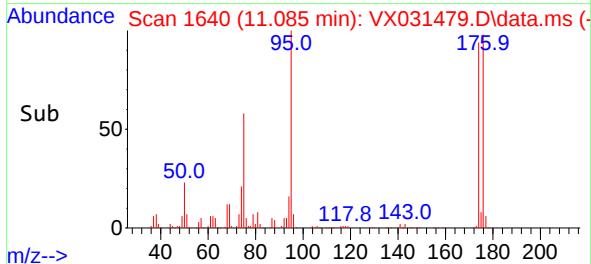
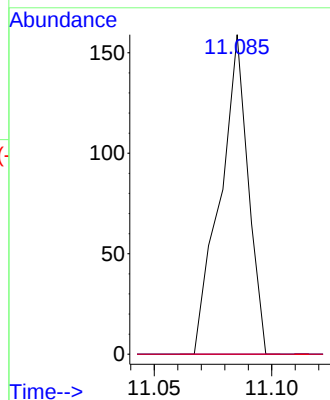
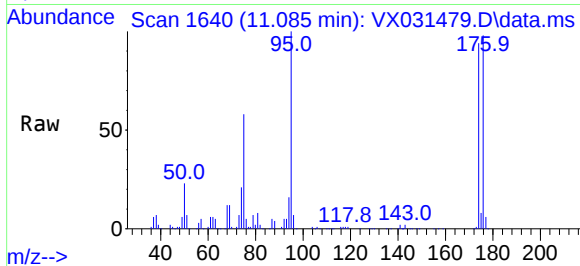




#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 11.085 min Scan# 1639  
Delta R.T. -0.128 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

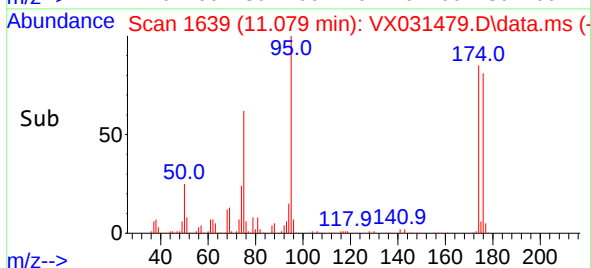
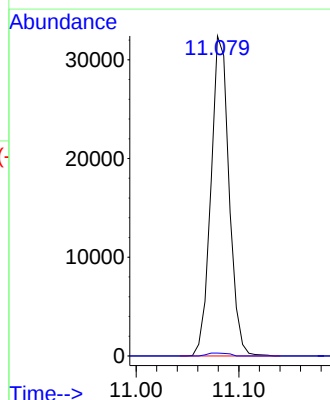
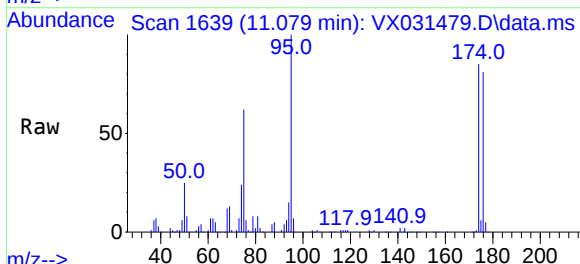
Instrument : MSVOA\_X  
ClientSampleId : BP-VPB-RW5-GW-478-480RE

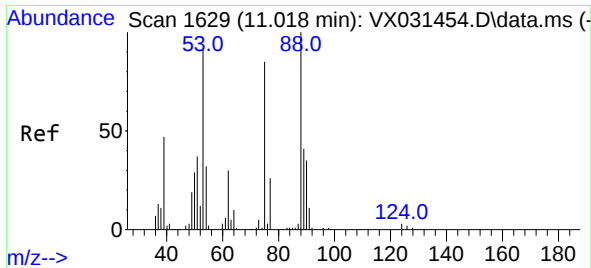
Tgt Ion: 83 Resp: 132  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.1 15.4#  
85 0.0 32.6 97.8#



#76  
1,2,3-Trichloropropane  
Concen: 39.487 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

Tgt Ion: 75 Resp: 39707  
Ion Ratio Lower Upper  
75 100  
77 1.1 20.3 60.9#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 127.141 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX031479.D  
Acq: 19 Sep 2022 22:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-GW-478-480RE

Tgt Ion: 75 Resp: 39707  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.6 116.4#  
89 0.0 37.4 56.0#

