

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091922\  
 Data File : VX031471.D  
 Acq On : 19 Sep 2022 19:36  
 Operator : JC/MD  
 Sample : N4558-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB-RW5-GW-203-205RE

Quant Time: Sep 20 09:50:11 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

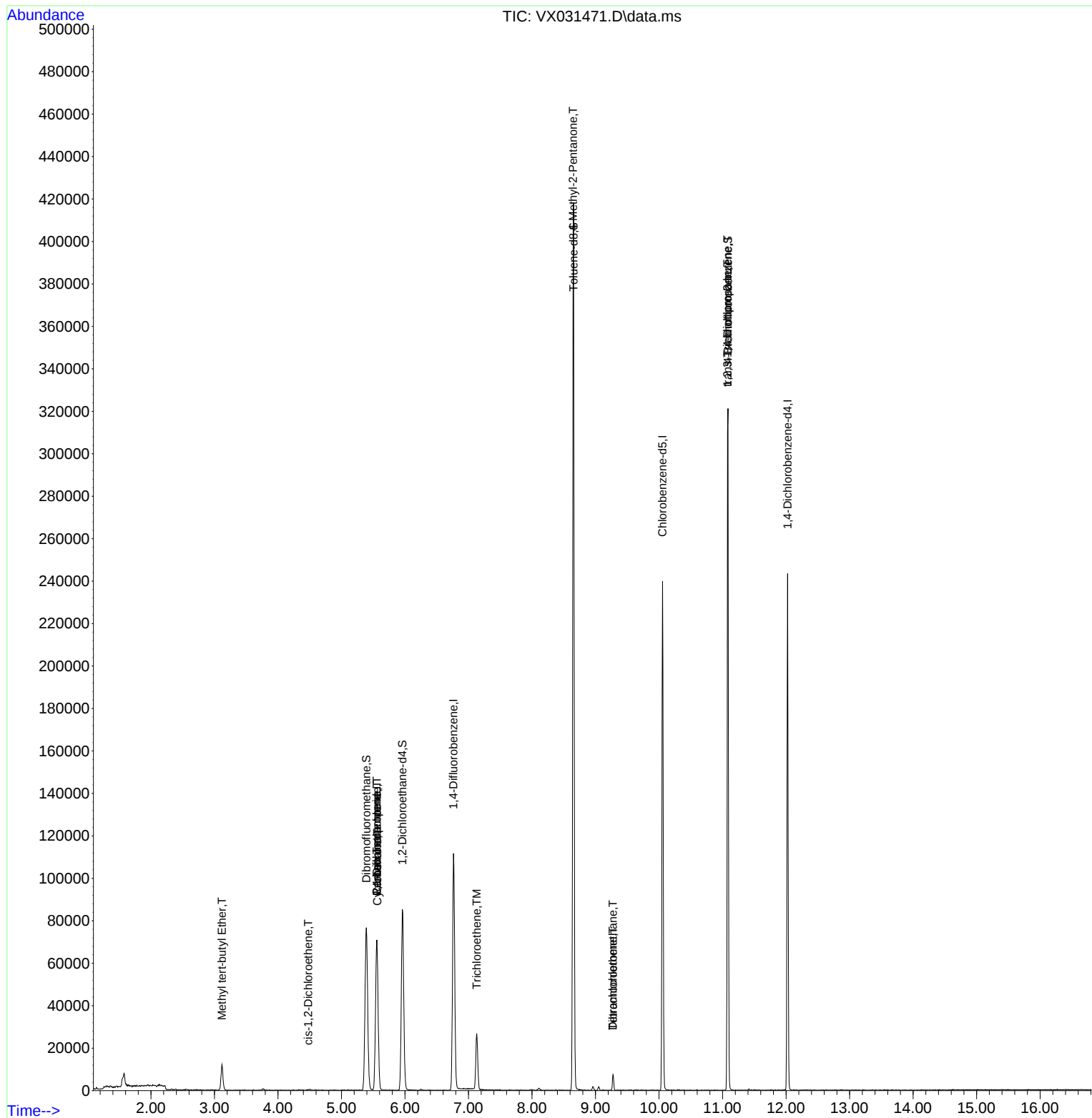
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 67909               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 112727              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 103723              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 45382               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 74831               | 60.193    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 120.380% |           |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 63424               | 54.499    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 109.000% |           |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 237068              | 52.786    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 105.580% |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 72076               | 47.378    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 94.760%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 6) Chloroethane               | 1.691          | 64   | 101                 | Below Cal | #      | 43       |
| 11) Tert butyl alcohol        | 2.953          | 59   | 22                  | Below Cal | #      | 73       |
| 13) Acrolein                  | 2.130          | 56   | 20                  | Below Cal | #      | 1        |
| 16) Acetone                   | 2.392          | 43   | 555                 | Below Cal |        | 99       |
| 19) Methyl tert-butyl Ether   | 3.117          | 73   | 12440               | 3.254     | ug/l   | 95       |
| 20) Methylene Chloride        | 2.788          | 84   | 30                  | Below Cal | #      | 62       |
| 27) cis-1,2-Dichloroethene    | 4.477          | 96   | 361                 | 0.251     | ug/l # | 1        |
| 31) Cyclohexane               | 5.562          | 56   | 1686                | 0.913     | ug/l # | 49       |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 5194                | 2.899     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 6637                | 3.342     | ug/l # | 16       |
| 44) Trichloroethene           | 7.129          | 130  | 9350                | 6.169     | ug/l   | 85       |
| 51) 4-Methyl-2-Pentanone      | 8.647          | 43   | 1217                | 0.576     | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.275          | 129  | 1208                | 0.792     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275          | 164  | 1258                | 1.010     | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 11.085         | 83   | 155                 | Below Cal | #      | 1        |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 41599               | 41.070    | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 41599               | 132.240   | ug/l # | 11       |
| -----                         |                |      |                     |           |        |          |

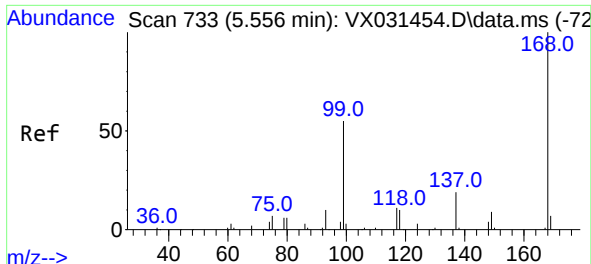
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Sep 20 09:45:29 2022  
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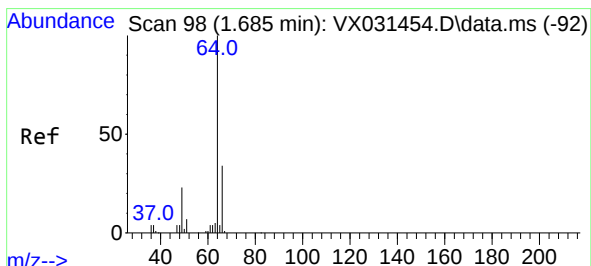
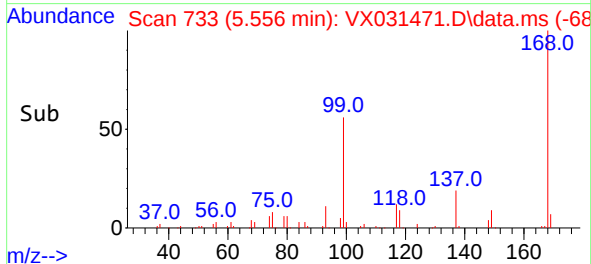
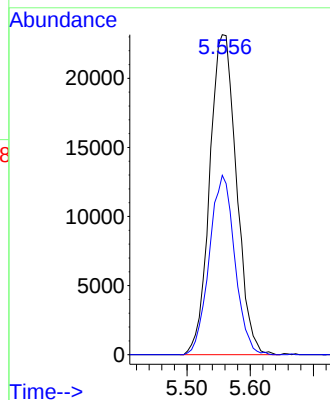
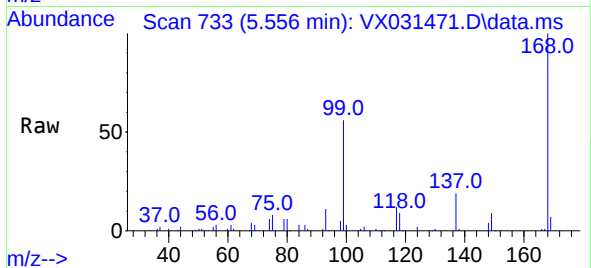




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX031471.D  
Acq: 19 Sep 2022 19:36

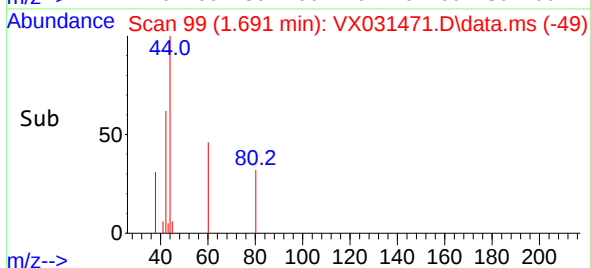
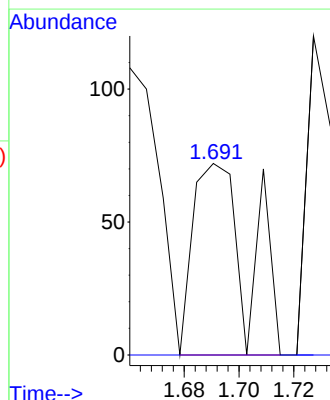
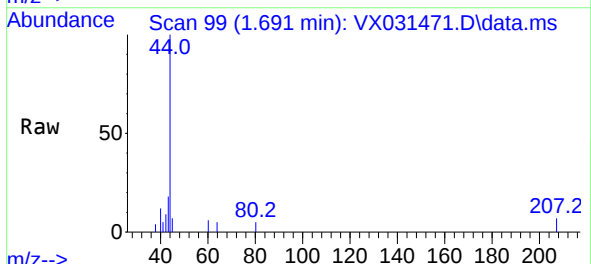
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-GW-203-205RE

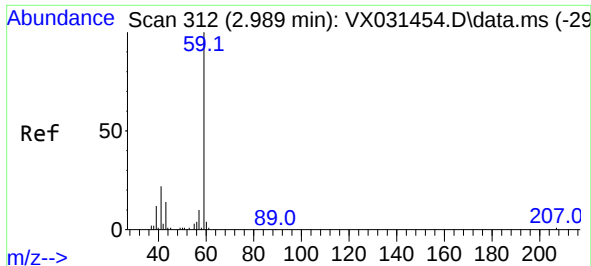
Tgt Ion:168 Resp: 67909  
Ion Ratio Lower Upper  
168 100  
99 56.0 48.8 73.2



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.691 min Scan# 99  
Delta R.T. 0.006 min  
Lab File: VX031471.D  
Acq: 19 Sep 2022 19:36

Tgt Ion: 64 Resp: 101  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.0 37.4#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.953 min Scan# 306

Delta R.T. -0.036 min

Lab File: VX031471.D

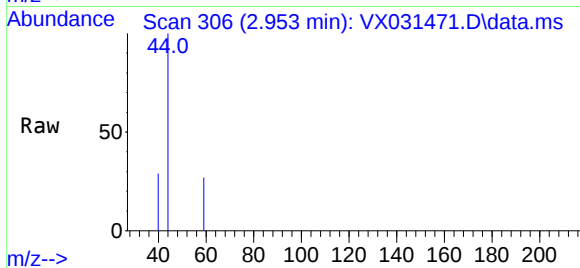
Acq: 19 Sep 2022 19:36

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW5-GW-203-205RE

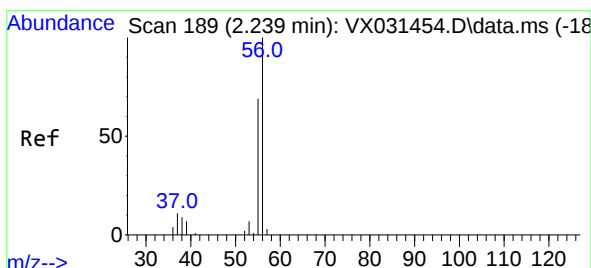
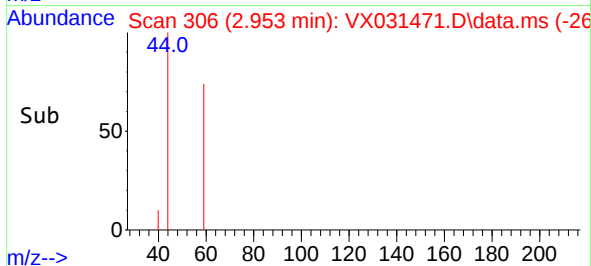
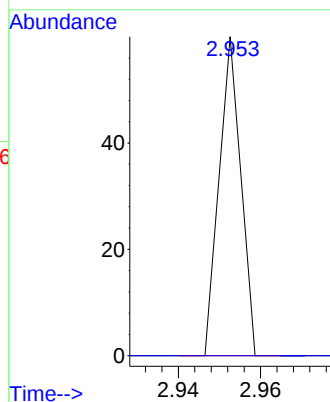


Tgt Ion: 59 Resp: 22

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#13

Acrolein

Concen: Below Cal

RT: 2.130 min Scan# 171

Delta R.T. -0.109 min

Lab File: VX031471.D

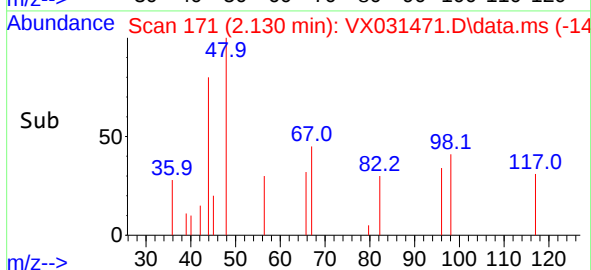
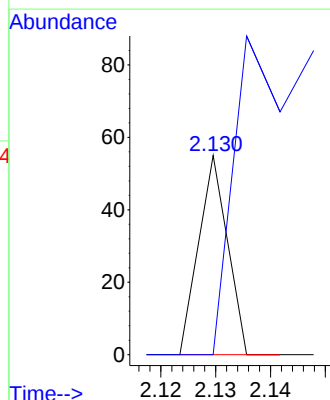
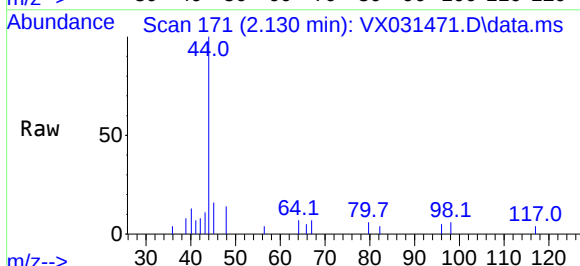
Acq: 19 Sep 2022 19:36

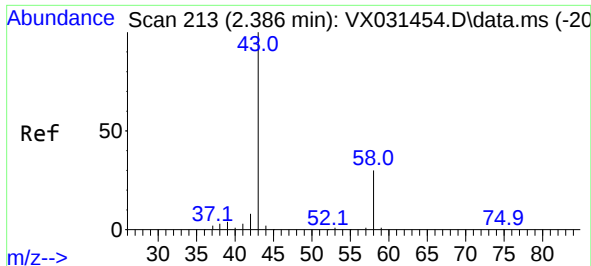
Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

56 100

55 435.0 56.0 84.0#

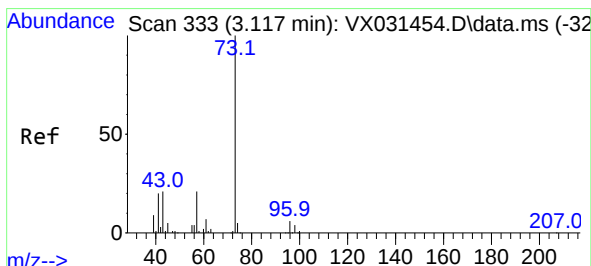
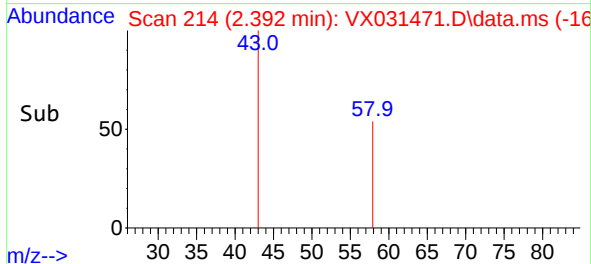
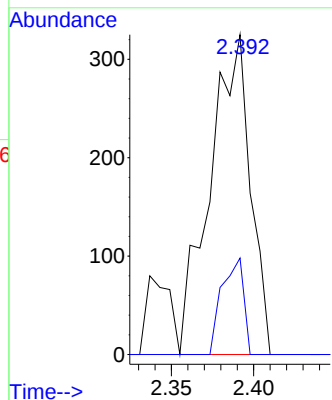
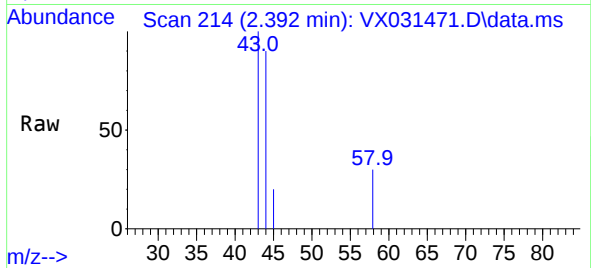




#16  
Acetone  
Concen: Below Cal  
RT: 2.392 min Scan# 213  
Delta R.T. 0.006 min  
Lab File: VX031471.D  
Acq: 19 Sep 2022 19:36

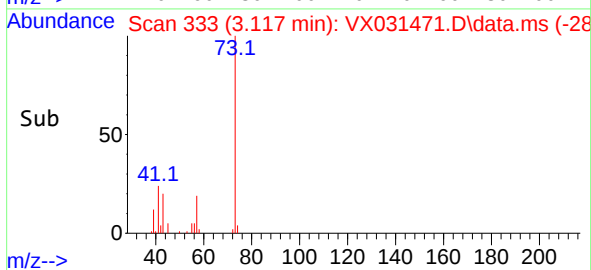
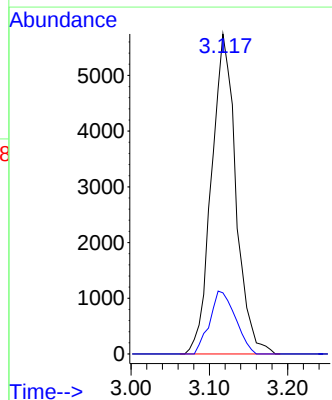
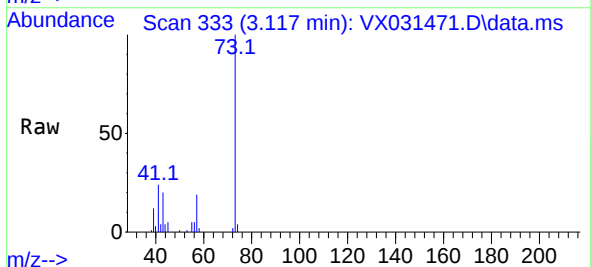
Instrument :  
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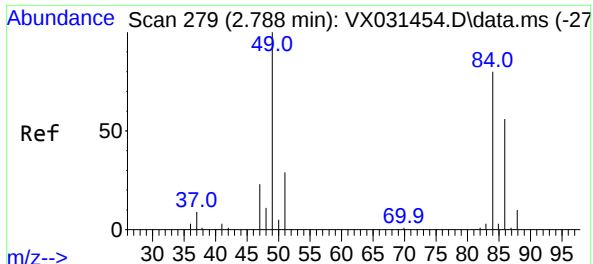
Tgt Ion: 43 Resp: 555  
Ion Ratio Lower Upper  
43 100  
58 30.2 23.8 35.8



#19  
Methyl tert-butyl Ether  
Concen: 3.254 ug/l  
RT: 3.117 min Scan# 333  
Delta R.T. 0.000 min  
Lab File: VX031471.D  
Acq: 19 Sep 2022 19:36

Tgt Ion: 73 Resp: 12440  
Ion Ratio Lower Upper  
73 100  
57 19.1 17.2 25.8





#20

Methylene Chloride

Concen: Below Cal

RT: 2.788 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX031471.D

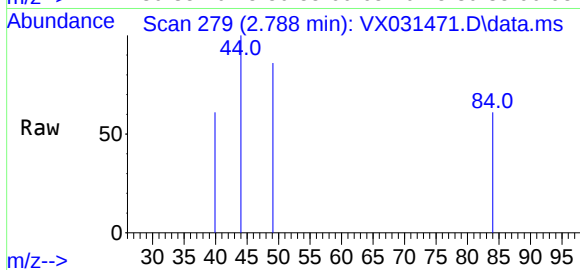
Acq: 19 Sep 2022 19:36

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW5-GW-203-205RE



Tgt Ion: 84 Resp: 30

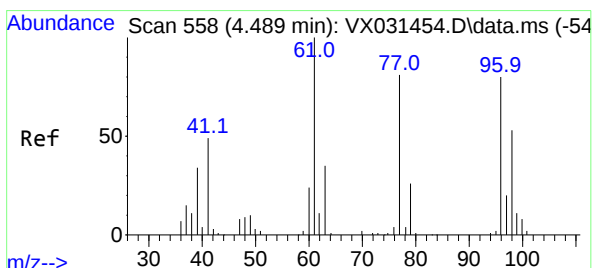
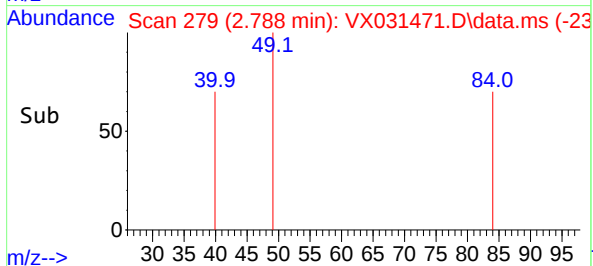
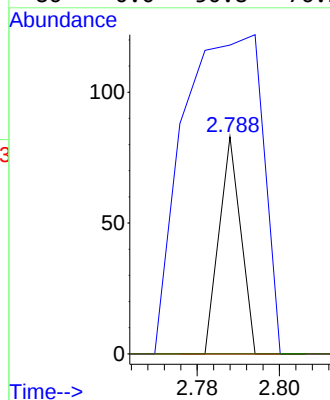
Ion Ratio Lower Upper

84 100

49 142.2 105.9 158.9

51 0.0 32.2 48.2#

86 0.0 50.8 76.2#



#27

cis-1,2-Dichloroethene

Concen: 0.251 ug/l

RT: 4.477 min Scan# 556

Delta R.T. -0.012 min

Lab File: VX031471.D

Acq: 19 Sep 2022 19:36

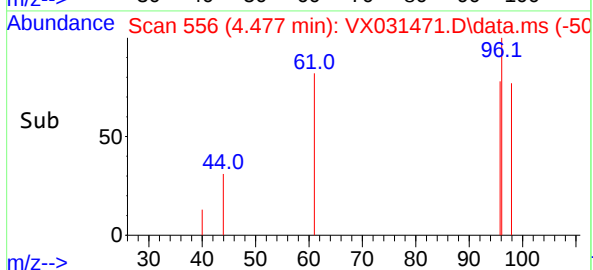
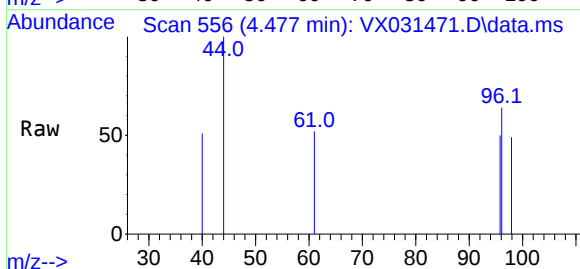
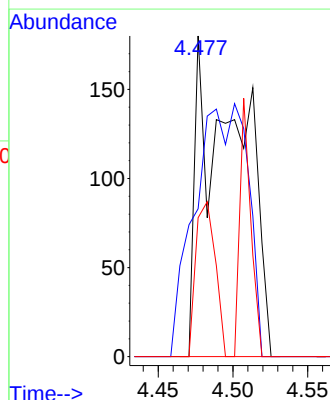
Tgt Ion: 96 Resp: 361

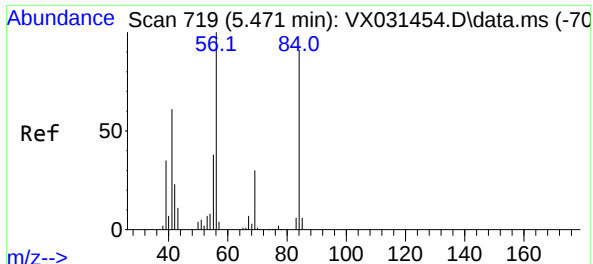
Ion Ratio Lower Upper

96 100

61 0.0 0.0 305.2

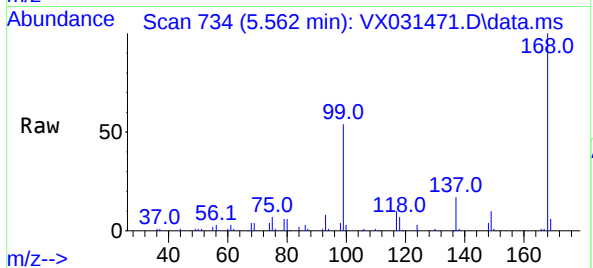
98 21.9 0.0 128.4



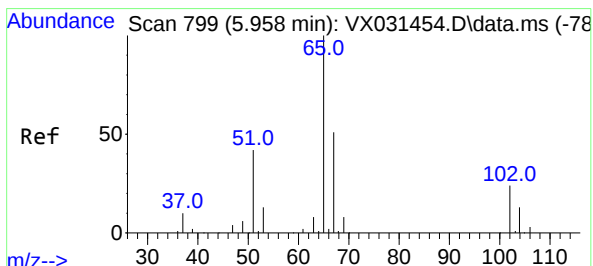
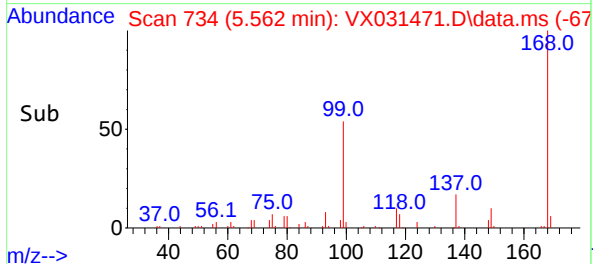
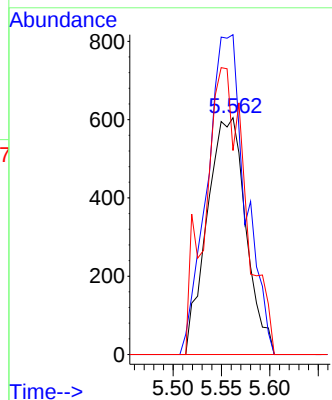


#31  
Cyclohexane  
Concen: 0.913 ug/l  
RT: 5.562 min Scan# 719  
Delta R.T. 0.091 min  
Lab File: VX031471.D  
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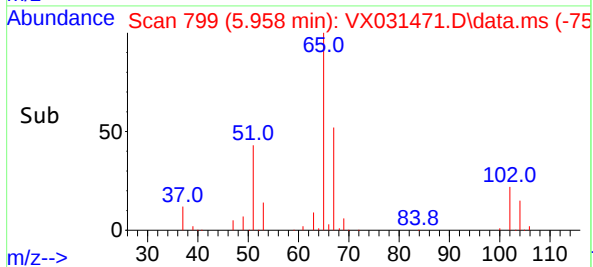
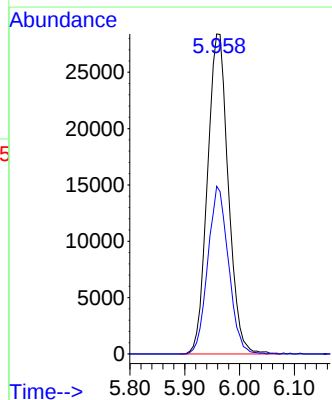
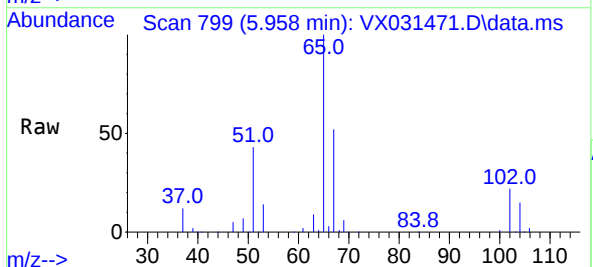


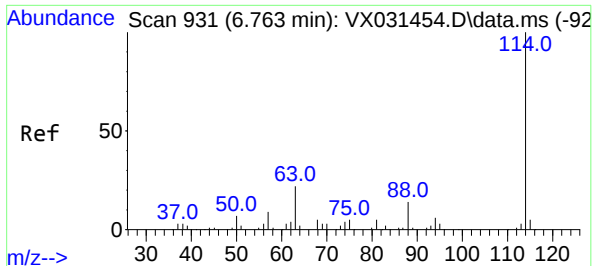
Tgt Ion: 56 Resp: 1686  
Ion Ratio Lower Upper  
56 100  
69 135.0 25.1 37.7#  
84 86.1 70.2 105.4



#33  
1,2-Dichloroethane-d4  
Concen: 60.193 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX031471.D  
Acq: 19 Sep 2022 19:36

Tgt Ion: 65 Resp: 74831  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 102.4

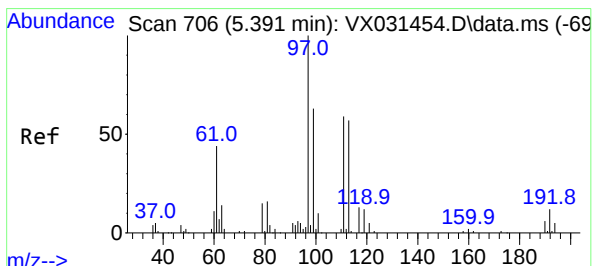
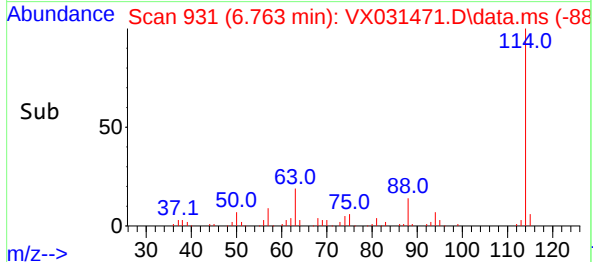
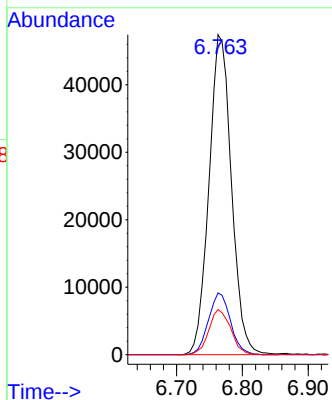
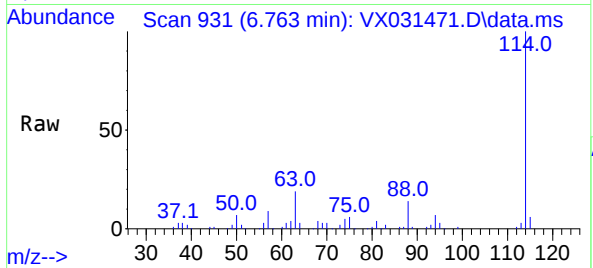




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VX031471.D  
Acq: 19 Sep 2022 19:36

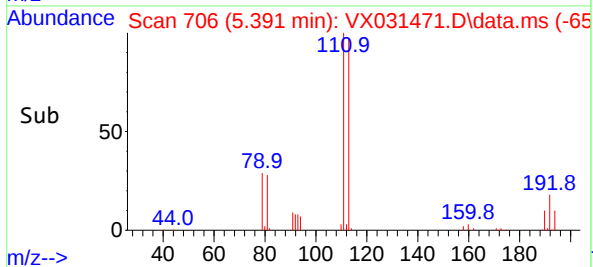
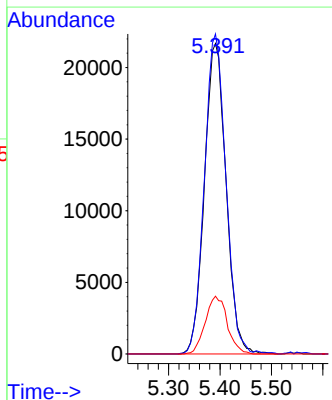
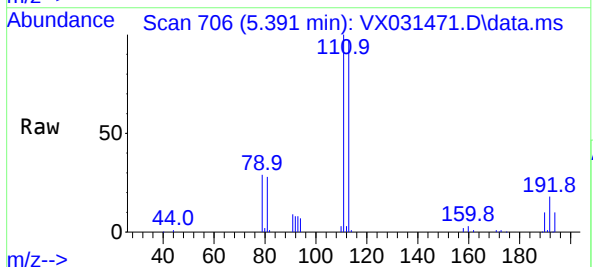
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-GW-203-205RE

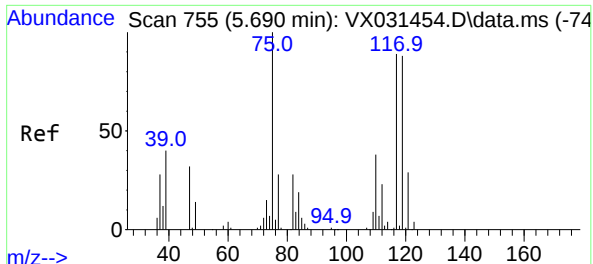
Tgt Ion:114 Resp: 112727  
Ion Ratio Lower Upper  
114 100  
63 19.3 0.0 42.6  
88 14.1 0.0 33.0



#35  
Dibromofluoromethane  
Concen: 54.499 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX031471.D  
Acq: 19 Sep 2022 19:36

Tgt Ion:113 Resp: 63424  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.4 123.6  
192 18.9 14.1 21.1





#36

1,1-Dichloropropene

Concen: 2.899 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX031471.D

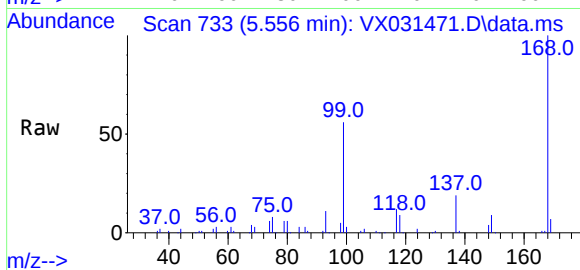
Acq: 19 Sep 2022 19:36

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW5-GW-203-205RE



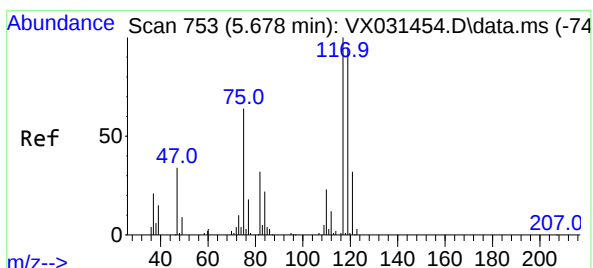
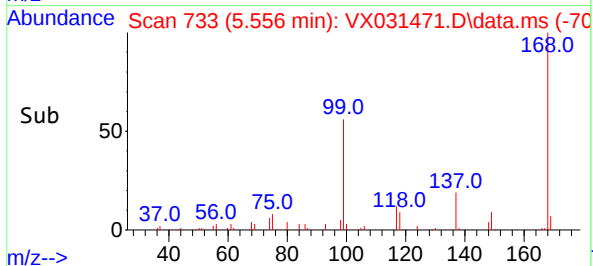
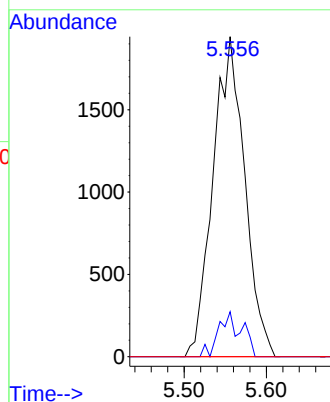
Tgt Ion: 75 Resp: 5194

Ion Ratio Lower Upper

75 100

110 10.2 17.5 52.5#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 3.342 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.122 min

Lab File: VX031471.D

Acq: 19 Sep 2022 19:36

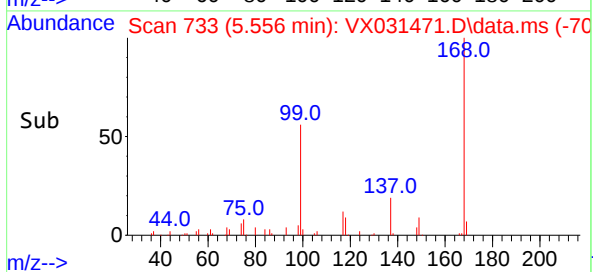
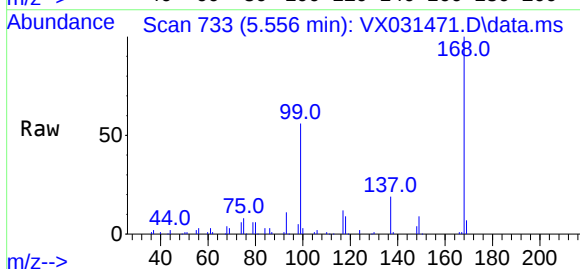
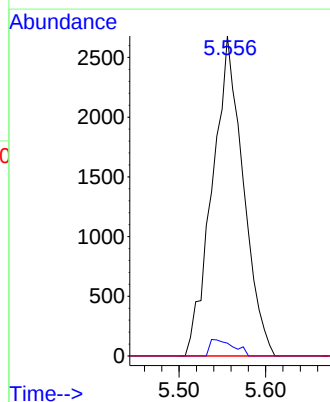
Tgt Ion: 117 Resp: 6637

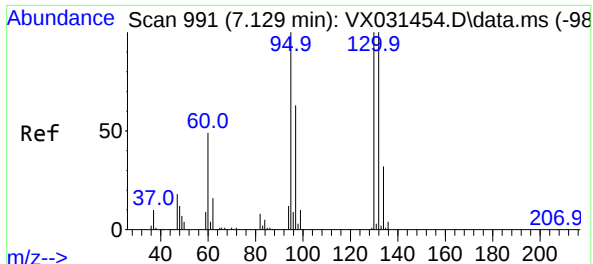
Ion Ratio Lower Upper

117 100

119 4.0 74.6 112.0#

121 0.0 25.3 37.9#

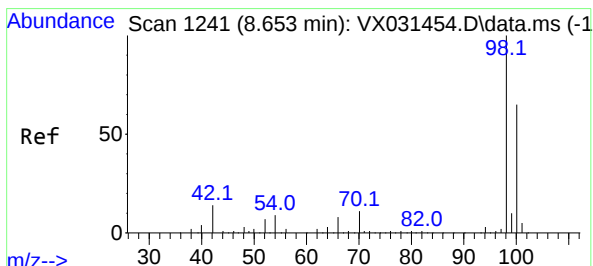
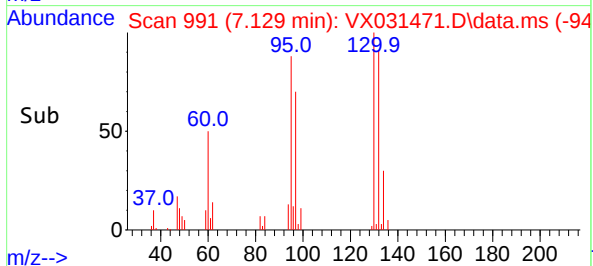
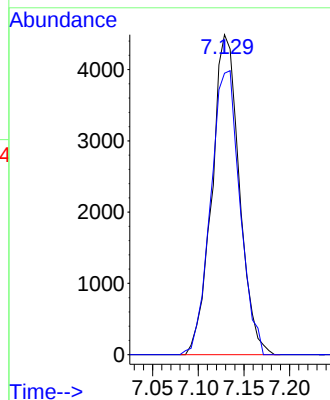
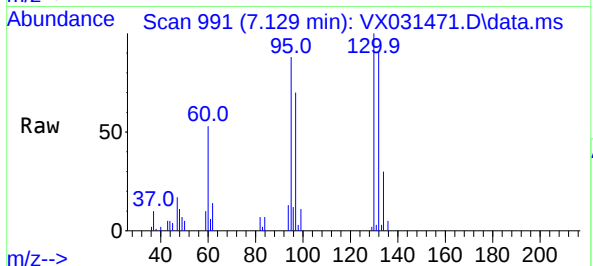




#44  
Trichloroethene  
Concen: 6.169 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX031471.D  
Acq: 19 Sep 2022 19:36

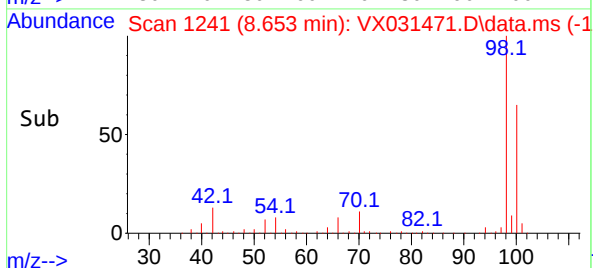
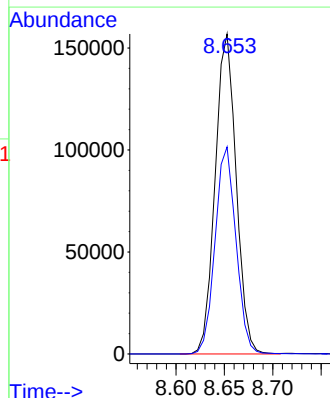
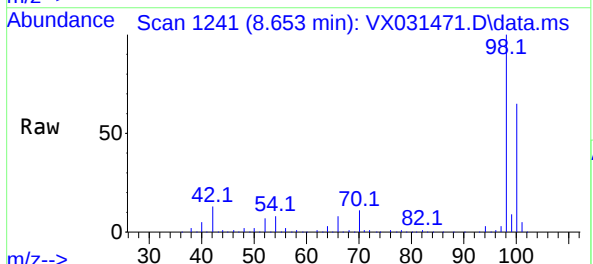
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-GW-203-205RE

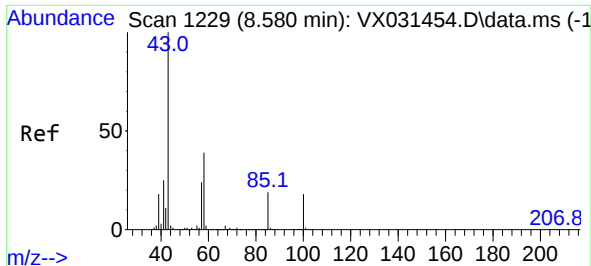
Tgt Ion:130 Resp: 9350  
Ion Ratio Lower Upper  
130 100  
95 87.9 0.0 206.8



#50  
Toluene-d8  
Concen: 52.786 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX031471.D  
Acq: 19 Sep 2022 19:36

Tgt Ion: 98 Resp: 237068  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 0.576 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.067 min

Lab File: VX031471.D

Acq: 19 Sep 2022 19:36

Instrument :

MSVOA\_X

ClientSampleId :

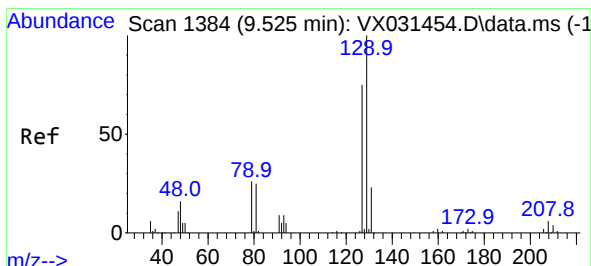
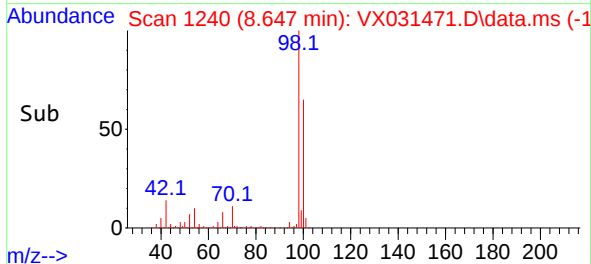
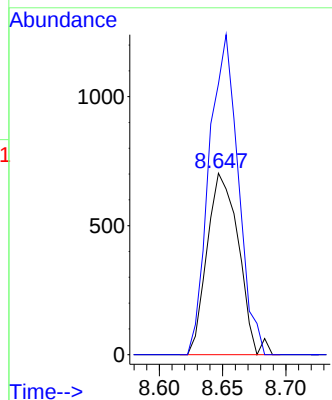
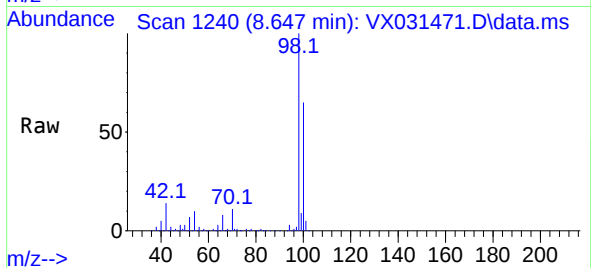
BP-VPB-RW5-GW-203-205RE

Tgt Ion: 43 Resp: 1217

Ion Ratio Lower Upper

43 100

58 163.4 30.6 46.0#



#60

Dibromochloromethane

Concen: 0.792 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.250 min

Lab File: VX031471.D

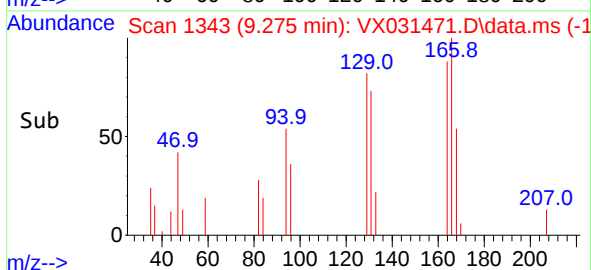
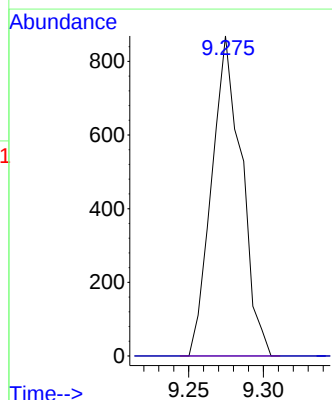
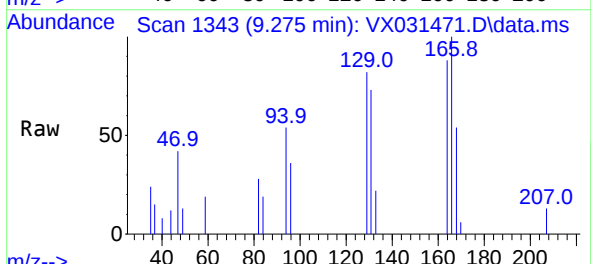
Acq: 19 Sep 2022 19:36

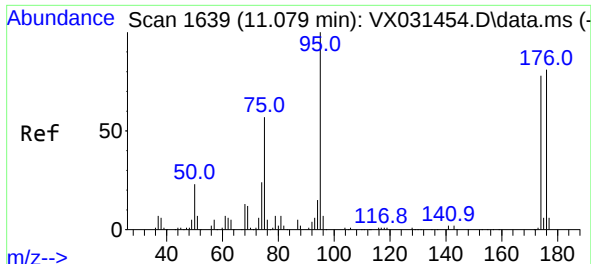
Tgt Ion: 129 Resp: 1208

Ion Ratio Lower Upper

129 100

127 0.0 38.7 116.1#





#62

4-Bromofluorobenzene

Concen: 47.378 ug/l

RT: 11.085 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX031471.D

Acq: 19 Sep 2022 19:36

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW5-GW-203-205RE

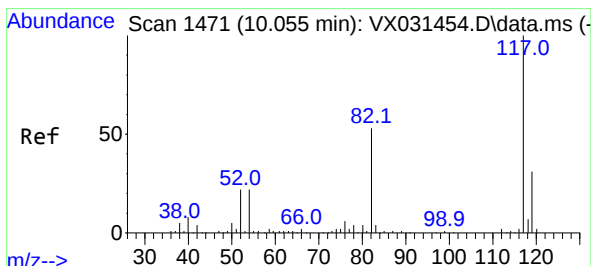
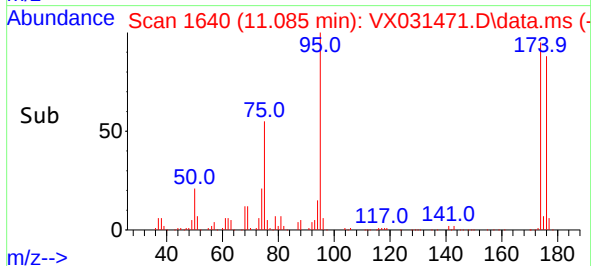
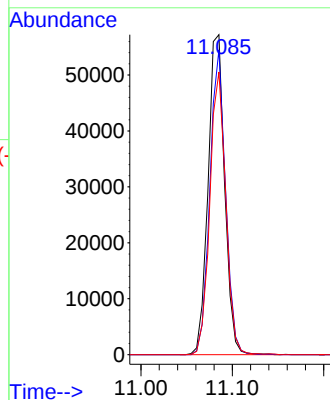
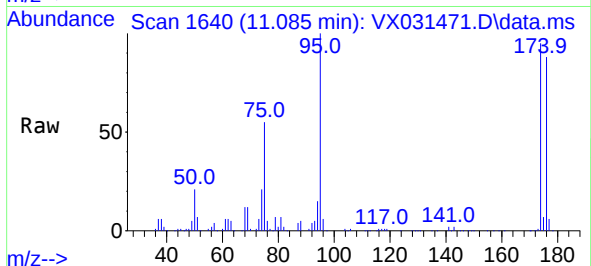
Tgt Ion: 95 Resp: 72076

Ion Ratio Lower Upper

95 100

174 90.0 0.0 153.2

176 85.1 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: VX031471.D

Acq: 19 Sep 2022 19:36

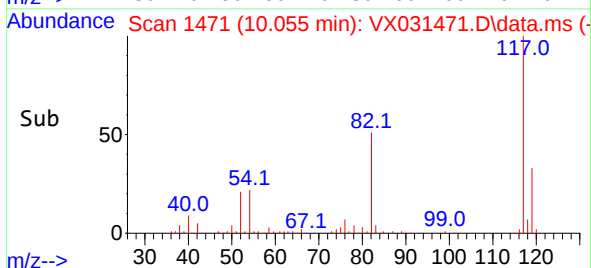
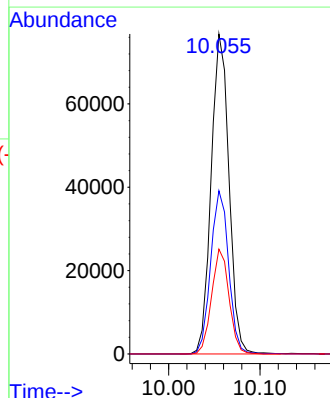
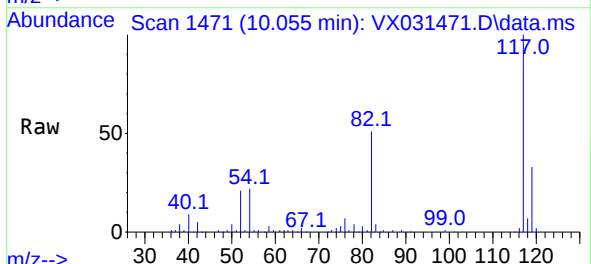
Tgt Ion: 117 Resp: 103723

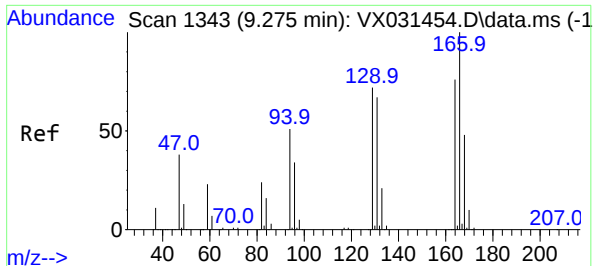
Ion Ratio Lower Upper

117 100

82 51.0 46.8 70.2

119 32.7 26.4 39.6



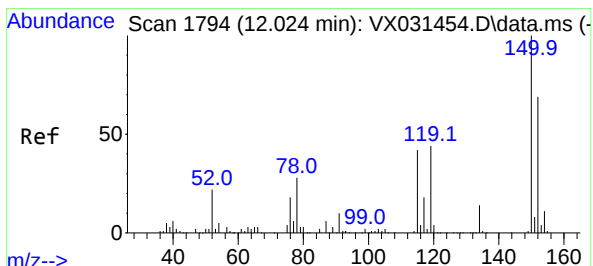
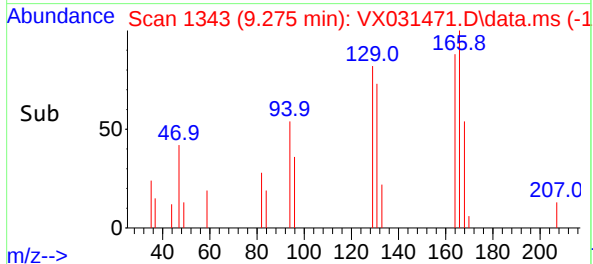
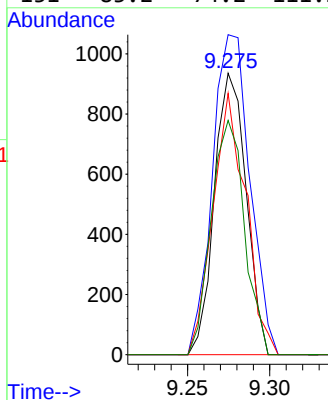
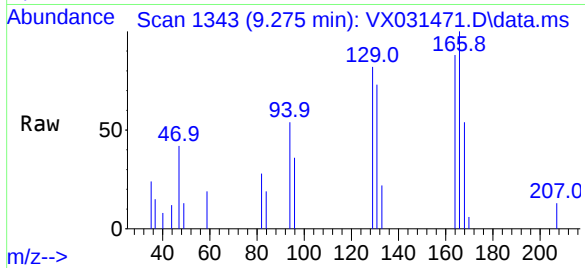


#64  
Tetrachloroethene  
Concen: 1.010 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX031471.D  
Acq: 19 Sep 2022 19:36

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW5-GW-203-205RE

Tgt Ion:164 Resp: 1258

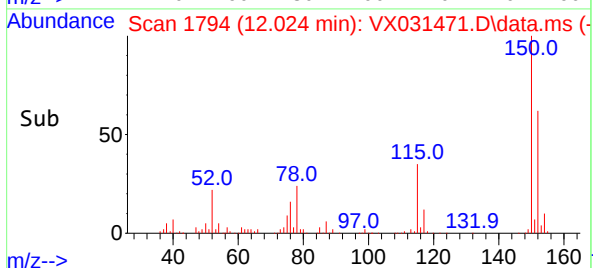
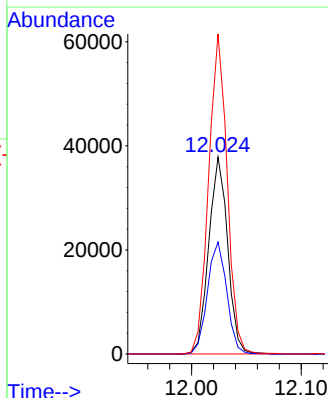
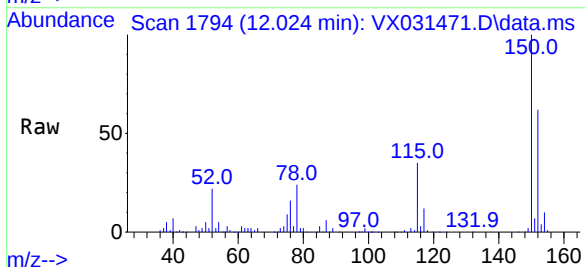
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 113.7 | 99.0  | 148.4 |
| 129 | 92.8  | 78.0  | 117.0 |
| 131 | 83.2  | 74.2  | 111.2 |

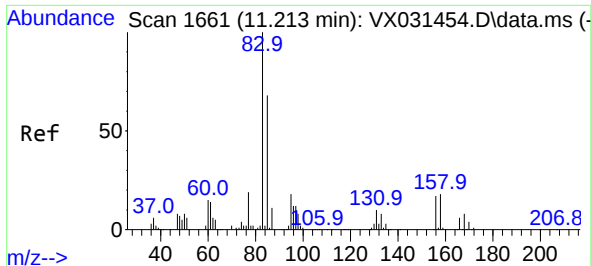


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX031471.D  
Acq: 19 Sep 2022 19:36

Tgt Ion:152 Resp: 45382

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 57.9  | 43.4  | 130.1 |
| 150 | 159.4 | 0.0   | 346.8 |

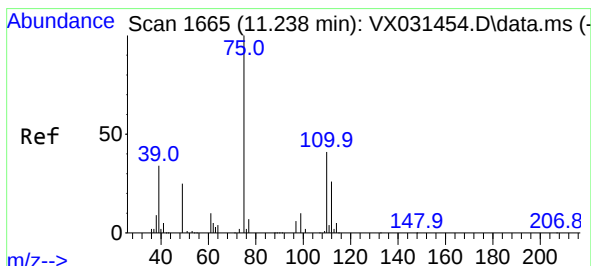
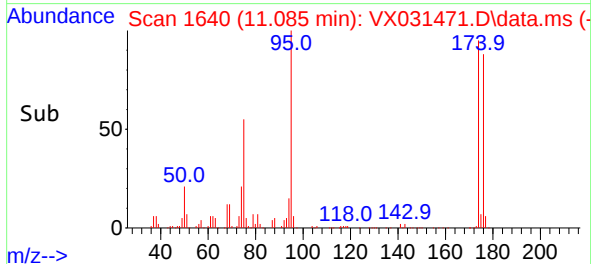
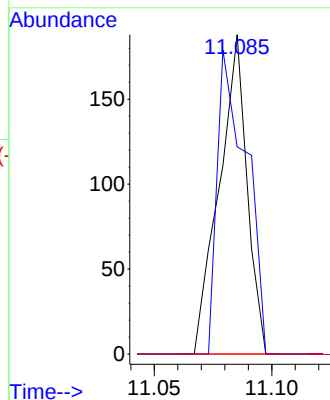
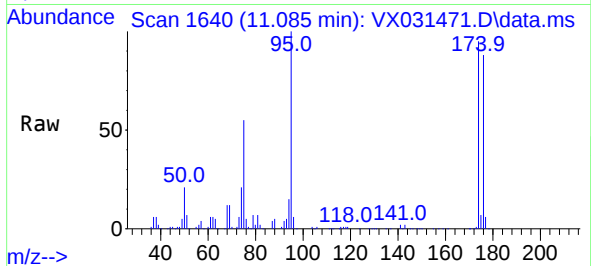




#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 11.085 min Scan# 1639  
Delta R.T. -0.128 min  
Lab File: VX031471.D  
Acq: 19 Sep 2022 19:36

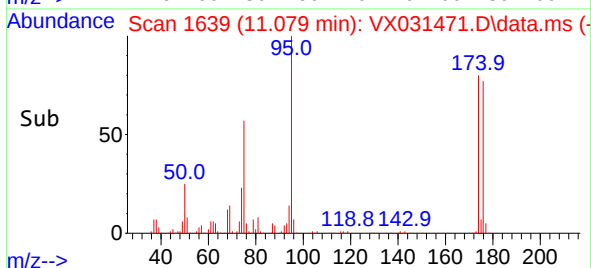
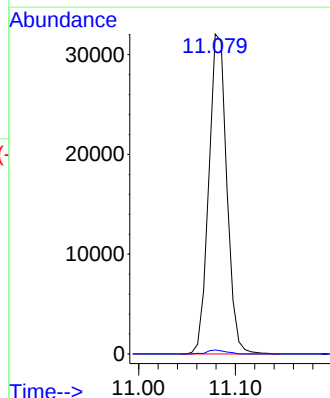
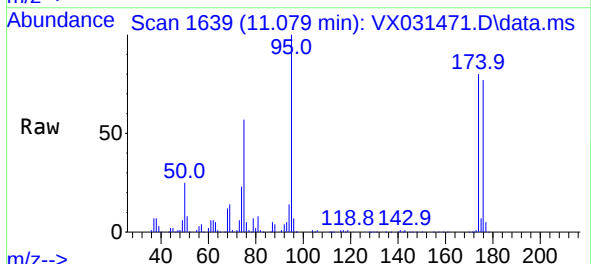
Instrument : MSVOA\_X  
ClientSampleId : BP-VPB-RW5-GW-203-205RE

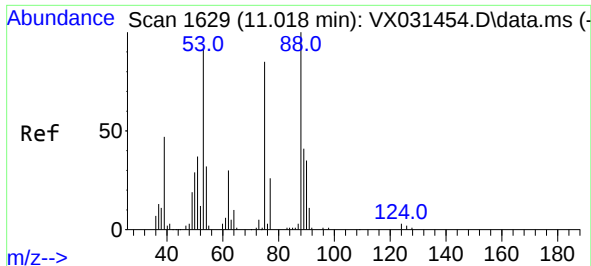
Tgt Ion: 83 Resp: 155  
Ion Ratio Lower Upper  
83 100  
131 98.7 5.1 15.4#  
85 0.0 32.6 97.8#



#76  
1,2,3-Trichloropropane  
Concen: 41.070 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX031471.D  
Acq: 19 Sep 2022 19:36

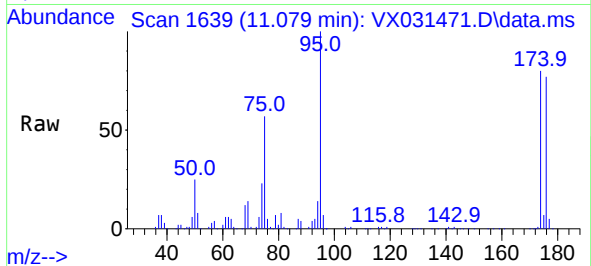
Tgt Ion: 75 Resp: 41599  
Ion Ratio Lower Upper  
75 100  
77 1.3 20.3 60.9#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 132.240 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX031471.D  
 Acq: 19 Sep 2022 19:36

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB-RW5-GW-203-205RE



Tgt Ion: 75 Resp: 41599  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 77.6 116.4#  
 89 0.0 37.4 56.0#

