

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY030124\  
 Data File : VY017559.D  
 Acq On : 01 Mar 2024 18:35  
 Operator : SY/MD  
 Sample : P1660-08RE  
 Misc : 5.05g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 BP-VPB-195-GW-1000-1002RE

Quant Time: Mar 02 00:22:45 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022324S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 24 04:41:20 2024  
 Response via : Initial Calibration

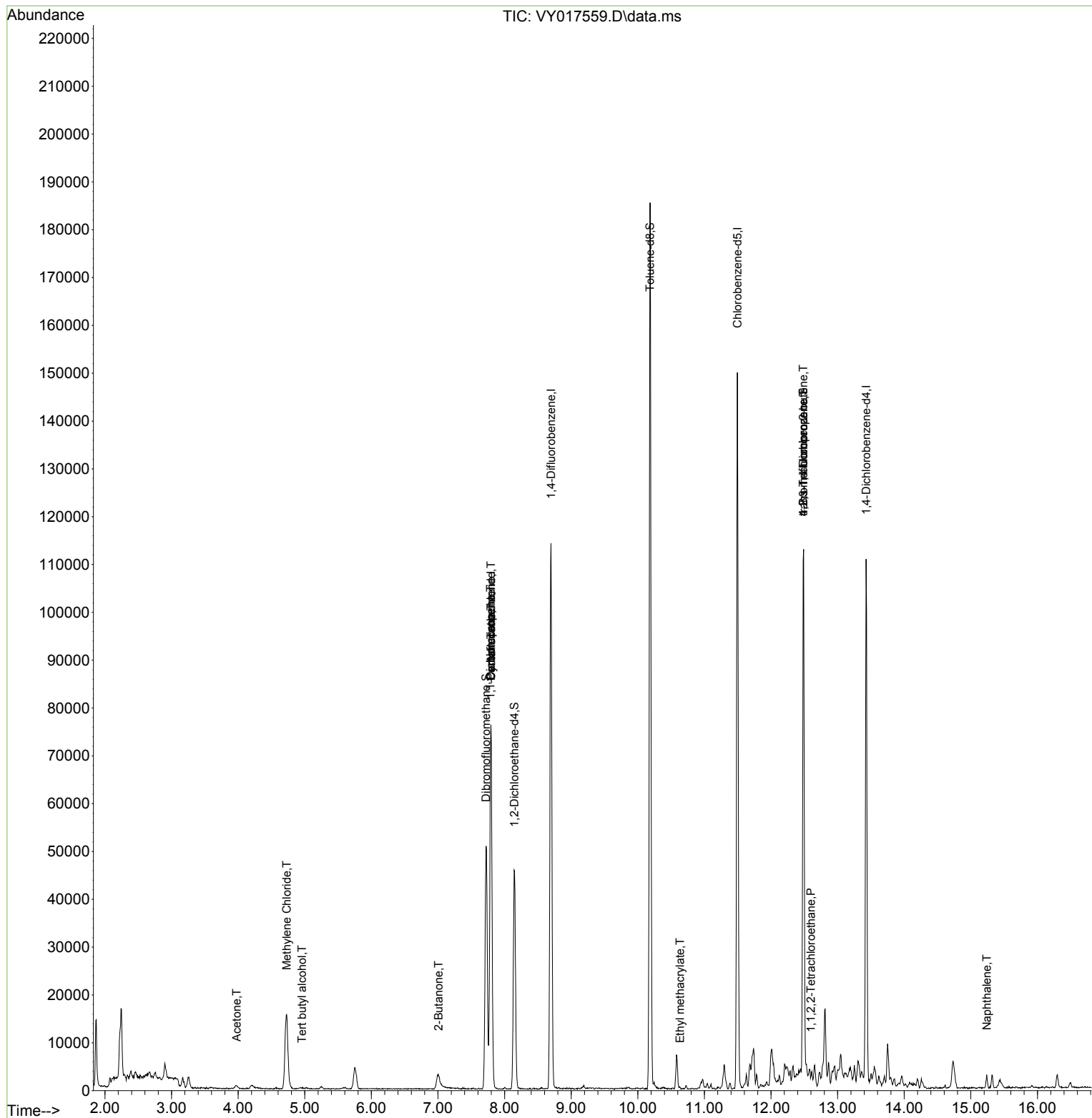
| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 7.795          | 168  | 63635               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.697          | 114  | 104221              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.495         | 117  | 84636               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428         | 152  | 29272               | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.149          | 65   | 34880               | 57.836  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 115.680% |         |        |          |
| 35) Dibromofluoromethane      | 7.722          | 113  | 36801               | 50.673  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 101.340% |         |        |          |
| 50) Toluene-d8                | 10.185         | 98   | 124585              | 49.064  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 98.120%  |         |        |          |
| 62) 4-Bromofluorobenzene      | 12.483         | 95   | 32007               | 40.109  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 80.220%  |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         |        | Qvalue   |
| 11) Tert butyl alcohol        | 4.960          | 59   | 53                  | 1.035   | ug/l # | 88       |
| 16) Acetone                   | 3.979          | 43   | 1339                | 11.447  | ug/l   | 88       |
| 20) Methylene Chloride        | 4.728          | 84   | 12876               | 14.889  | ug/l   | 98       |
| 25) 2-Butanone                | 7.008          | 43   | 365                 | 2.190   | ug/l # | 41       |
| 31) Cyclohexane               | 7.795          | 56   | 1307                | 1.332   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.789          | 75   | 4901                | 5.002   | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 7.795          | 117  | 6124                | 6.236   | ug/l # | 16       |
| 56) Ethyl methacrylate        | 10.636         | 69   | 38                  | 2.589   | ug/l # | 1        |
| 75) 1,1,2,2-Tetrachloroethane | 12.599         | 83   | 399                 | 1.068   | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane    | 12.483         | 75   | 16149               | 58.063  | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483         | 75   | 16149               | 133.416 | ug/l # | 16       |
| 95) Naphthalene               | 15.239         | 128  | 2369                | 6.300   | ug/l   | 97       |
| -----                         |                |      |                     |         |        |          |

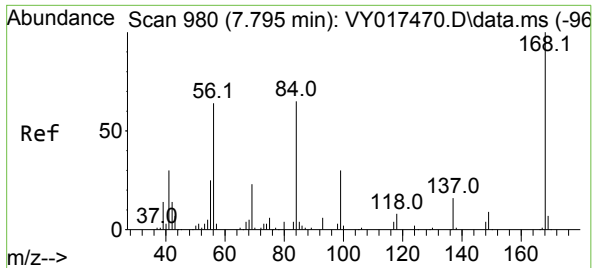
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Feb 24 04:41:20 2024  
Response via : Initial Calibration

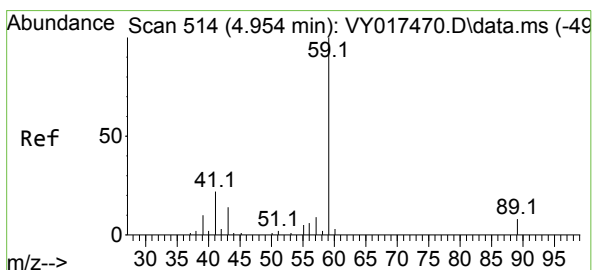
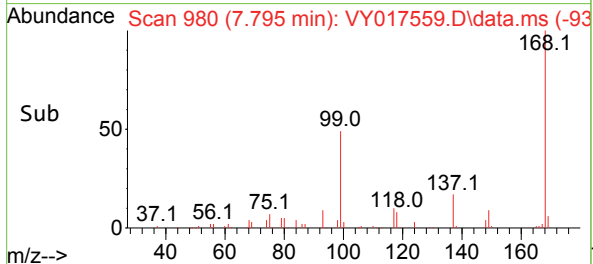
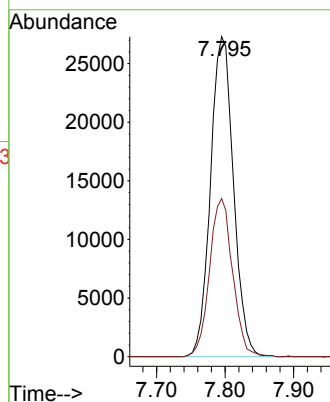
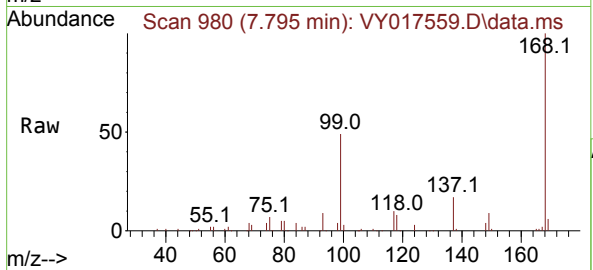




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY017559.D  
Acq: 01 Mar 2024 18:35

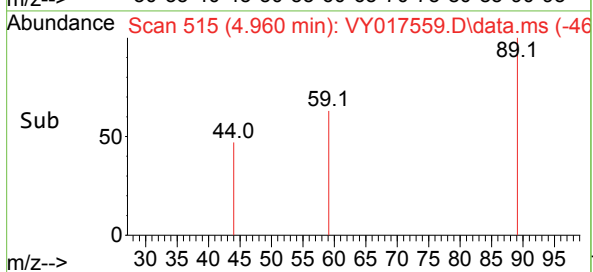
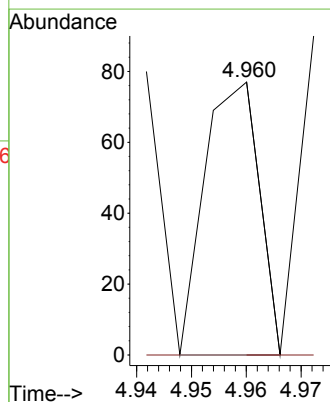
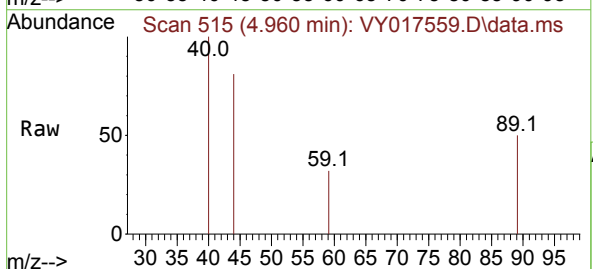
Instrument :  
MSVOA\_Y  
ClientSampleId :  
BP-VPB-195-GW-1000-1002RE

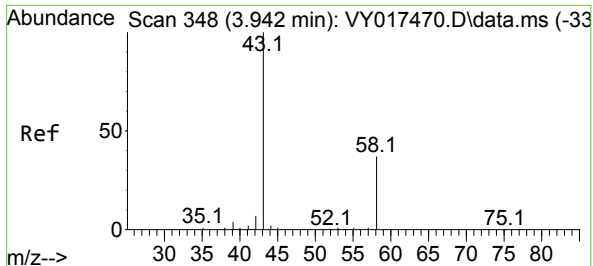
Tgt Ion:168 Resp: 63635  
Ion Ratio Lower Upper  
168 100  
99 49.4 39.1 58.7



#11  
Tert butyl alcohol  
Concen: 1.035 ug/l  
RT: 4.960 min Scan# 515  
Delta R.T. 0.006 min  
Lab File: VY017559.D  
Acq: 01 Mar 2024 18:35

Tgt Ion: 59 Resp: 53  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.6#





#16

Acetone

Concen: 11.447 ug/l

RT: 3.979 min Scan# 31

Delta R.T. 0.037 min

Lab File: VY017559.D

Acq: 01 Mar 2024 18:35

Instrument :

MSVOA\_Y

ClientSampleId :

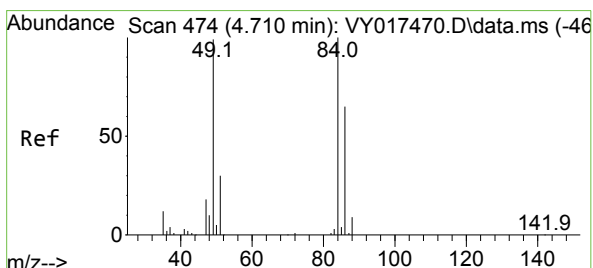
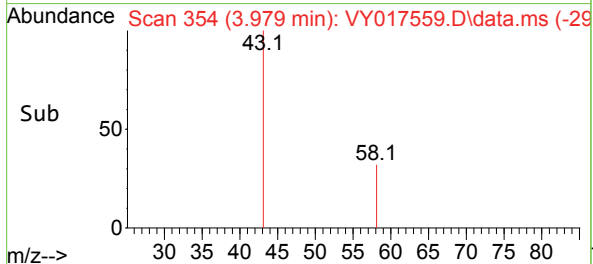
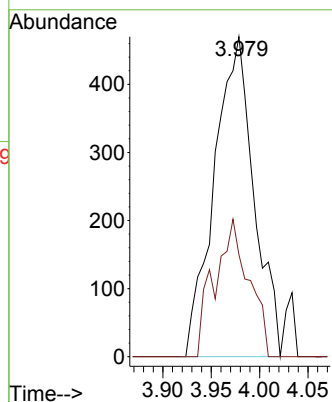
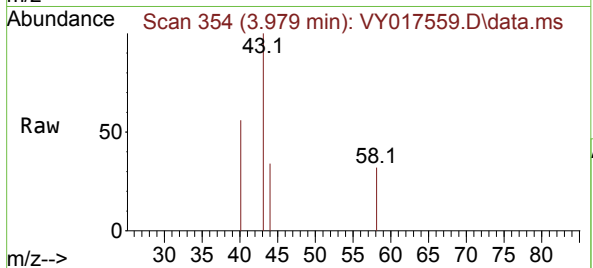
BP-VPB-195-GW-1000-1002RE

Tgt Ion: 43 Resp: 1339

Ion Ratio Lower Upper

43 100

58 31.9 31.7 47.5



#20

Methylene Chloride

Concen: 14.889 ug/l

RT: 4.728 min Scan# 477

Delta R.T. 0.018 min

Lab File: VY017559.D

Acq: 01 Mar 2024 18:35

Tgt Ion: 84 Resp: 12876

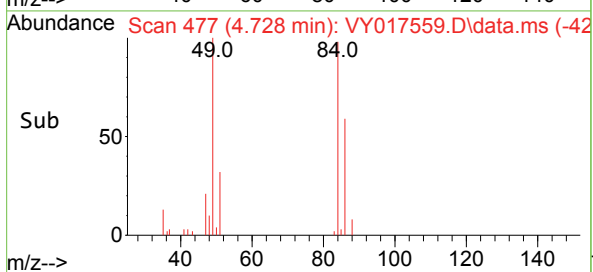
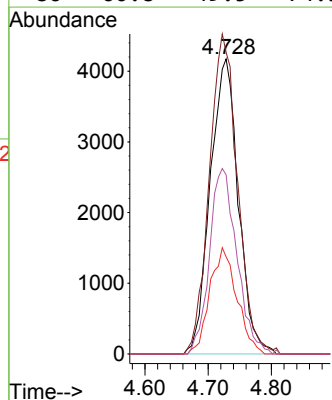
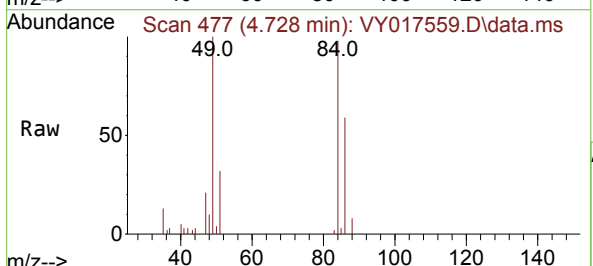
Ion Ratio Lower Upper

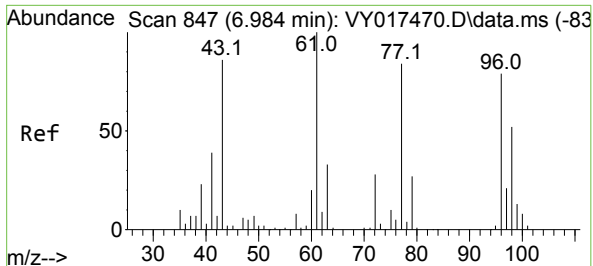
84 100

49 102.2 84.4 126.6

51 32.9 26.0 39.0

86 60.8 49.5 74.3





#25

2-Butanone

Concen: 2.190 ug/l

RT: 7.008 min Scan# 81

Delta R.T. 0.024 min

Lab File: VY017559.D

Acq: 01 Mar 2024 18:35

Instrument :

MSVOA\_Y

ClientSampleId :

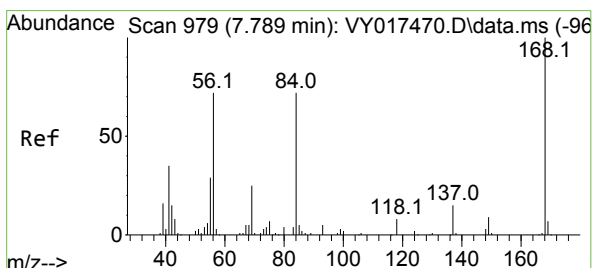
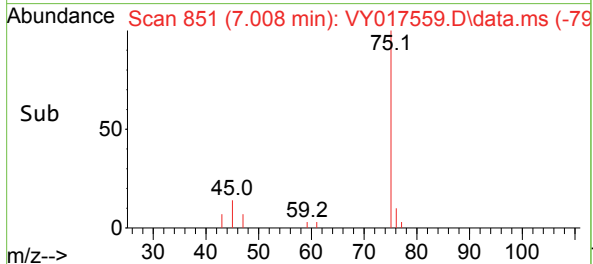
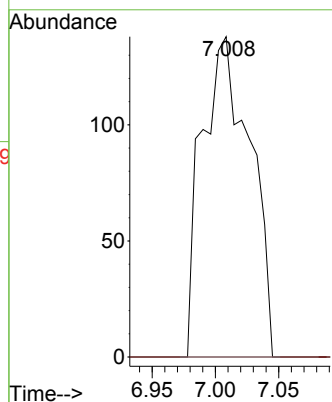
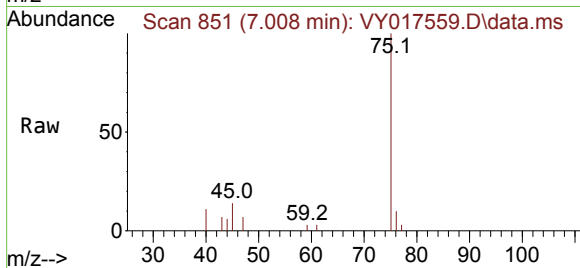
BP-VPB-195-GW-1000-1002RE

Tgt Ion: 43 Resp: 365

Ion Ratio Lower Upper

43 100

72 0.0 27.3 40.9#



#31

Cyclohexane

Concen: 1.332 ug/l

RT: 7.795 min Scan# 980

Delta R.T. 0.006 min

Lab File: VY017559.D

Acq: 01 Mar 2024 18:35

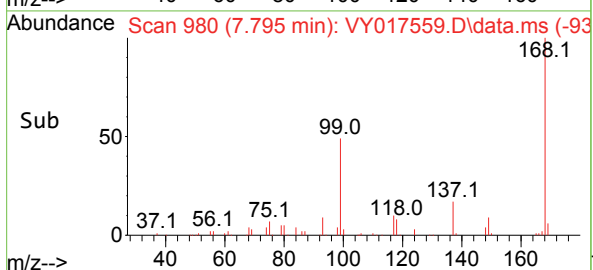
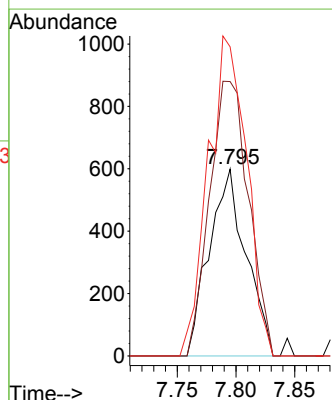
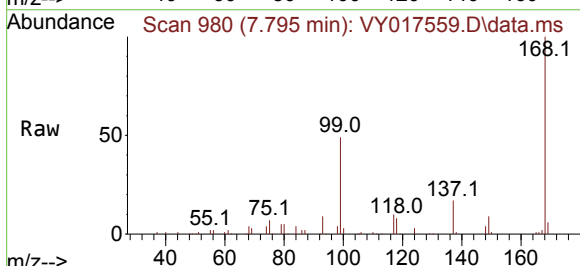
Tgt Ion: 56 Resp: 1307

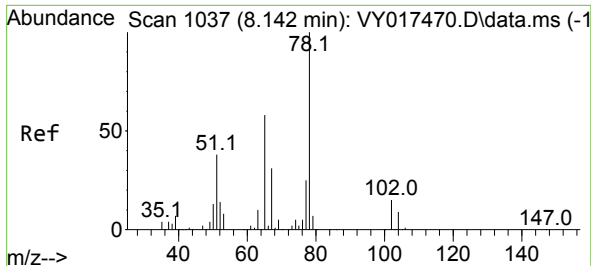
Ion Ratio Lower Upper

56 100

69 146.9 28.7 43.1#

84 165.4 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 57.836 ug/l

RT: 8.149 min Scan# 110

Delta R.T. 0.006 min

Lab File: VY017559.D

Acq: 01 Mar 2024 18:35

Instrument :

MSVOA\_Y

ClientSampleId :

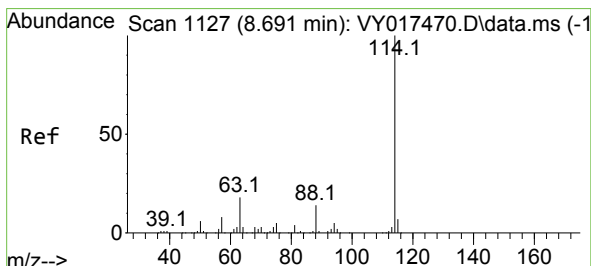
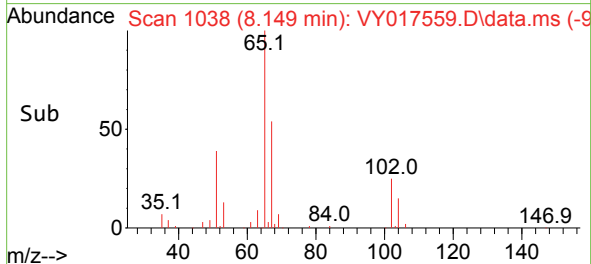
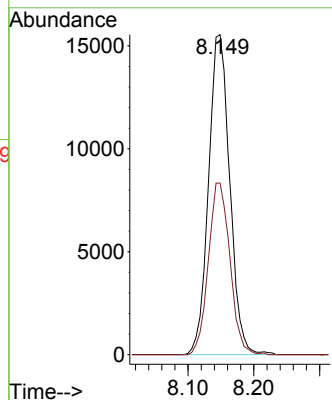
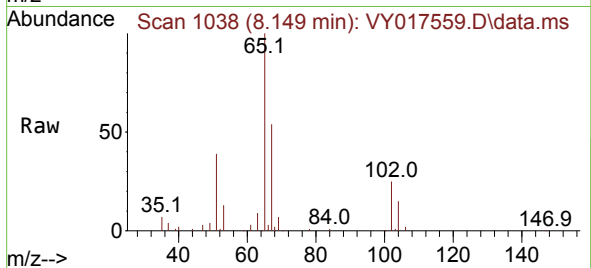
BP-VPB-195-GW-1000-1002RE

Tgt Ion: 65 Resp: 34880

Ion Ratio Lower Upper

65 100

67 54.6 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VY017559.D

Acq: 01 Mar 2024 18:35

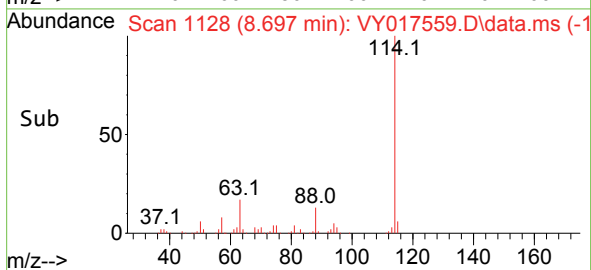
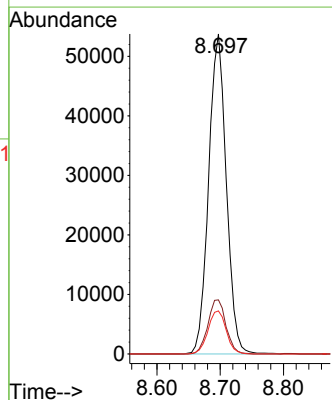
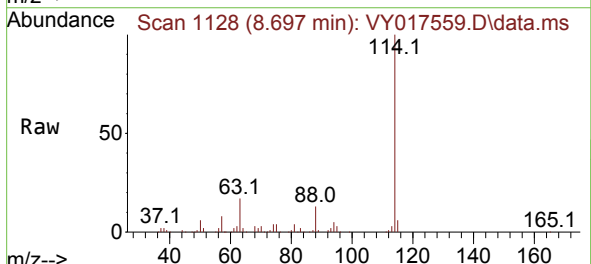
Tgt Ion: 114 Resp: 104221

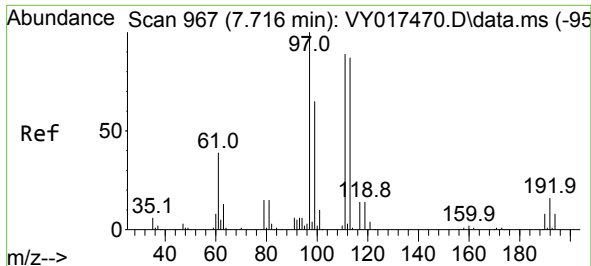
Ion Ratio Lower Upper

114 100

63 16.9 0.0 35.0

88 13.5 0.0 27.2

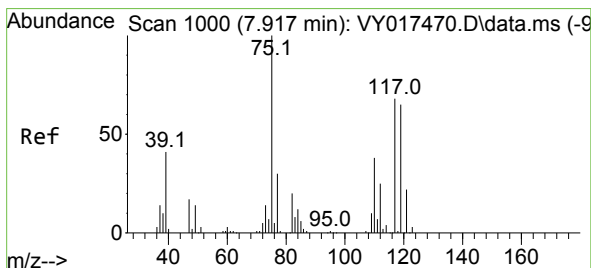
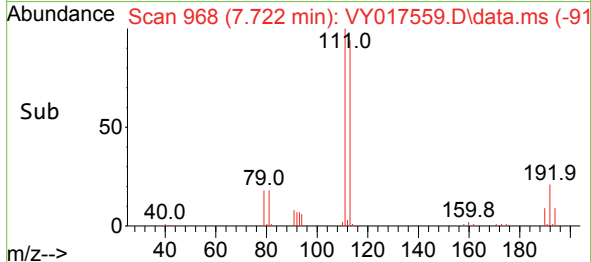
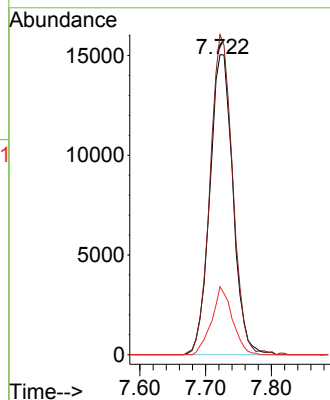
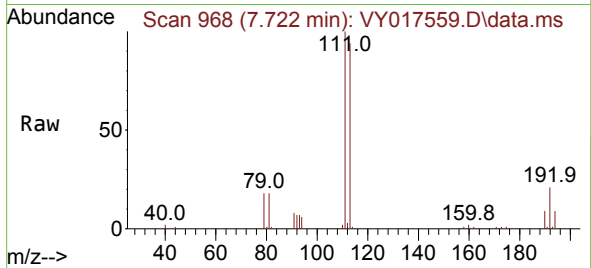




#35  
Dibromofluoromethane  
Concen: 50.673 ug/l  
RT: 7.722 min Scan# 910  
Delta R.T. 0.006 min  
Lab File: VY017559.D  
Acq: 01 Mar 2024 18:35

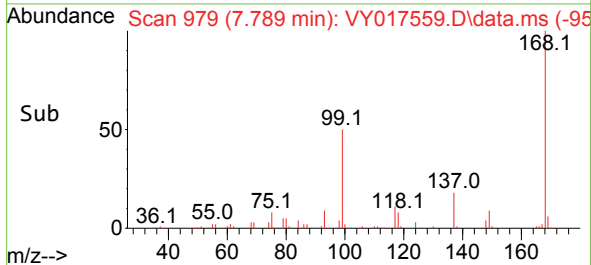
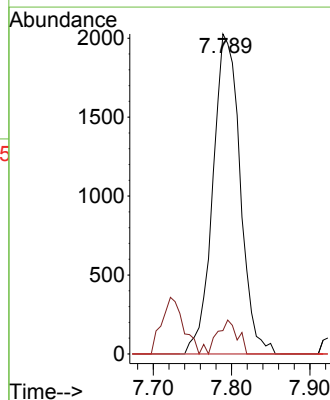
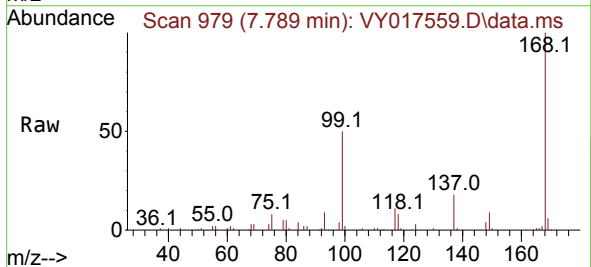
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ClientSampleId :  
BP-VPB-195-GW-1000-1002RE

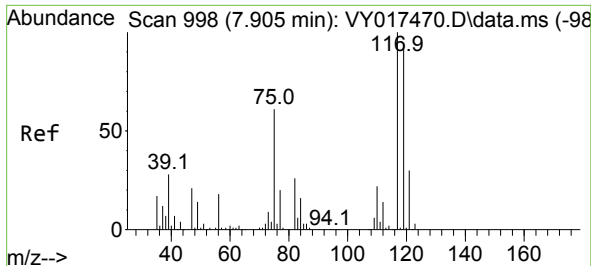
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Ion Ratio Lower Upper  
113 100  
111 104.1 82.2 123.4  
192 20.3 15.9 23.9



#36  
1,1-Dichloropropene  
Concen: 5.002 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.128 min  
Lab File: VY017559.D  
Acq: 01 Mar 2024 18:35

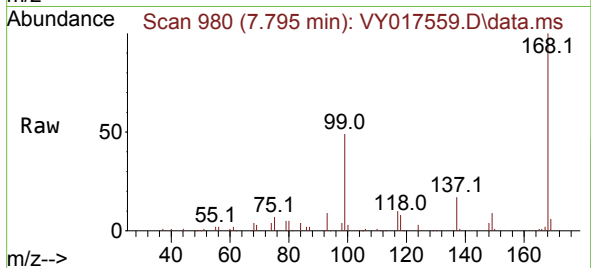
Tgt Ion: 75 Resp: 4901  
Ion Ratio Lower Upper  
75 100  
110 7.6 19.0 57.0#  
77 0.0 25.3 37.9#



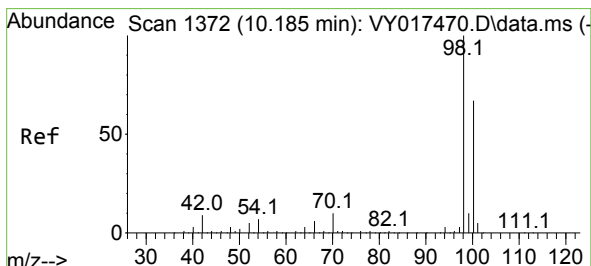
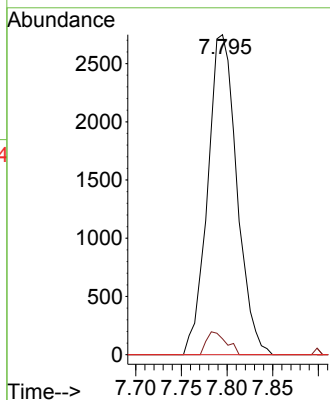
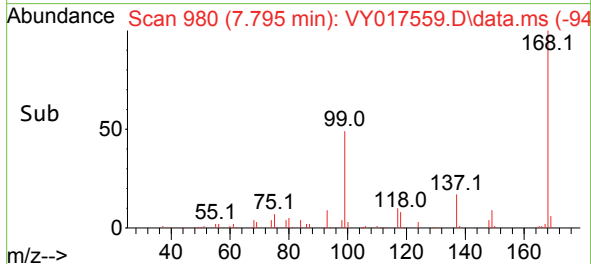


#38  
Carbon Tetrachloride  
Concen: 6.236 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY017559.D  
Acq: 01 Mar 2024 18:35

Instrument :  
MSVOA\_Y  
ClientSampleId :  
BP-VPB-195-GW-1000-1002RE

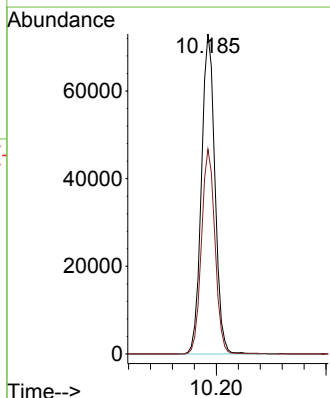
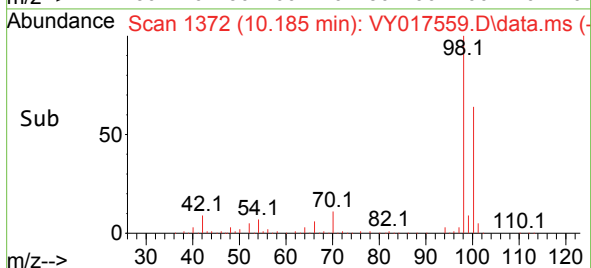
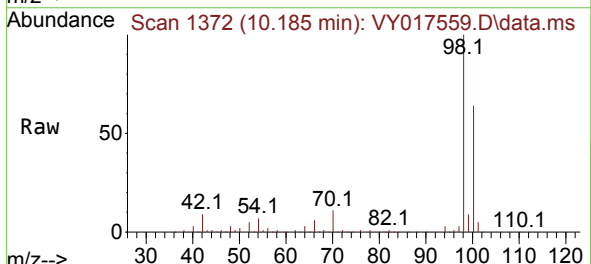


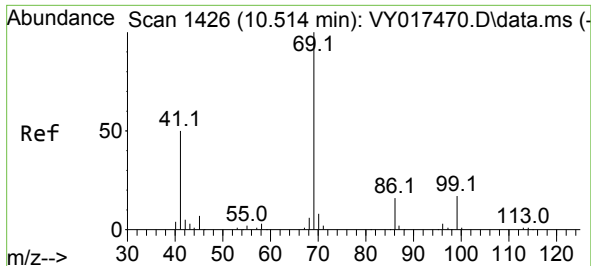
Tgt Ion:117 Resp: 6124  
Ion Ratio Lower Upper  
117 100  
119 4.9 75.8 113.6#  
121 0.0 24.0 36.0#



#50  
Toluene-d8  
Concen: 49.064 ug/l  
RT: 10.185 min Scan# 1372  
Delta R.T. 0.000 min  
Lab File: VY017559.D  
Acq: 01 Mar 2024 18:35

Tgt Ion: 98 Resp: 124585  
Ion Ratio Lower Upper  
98 100  
100 63.9 52.0 78.0

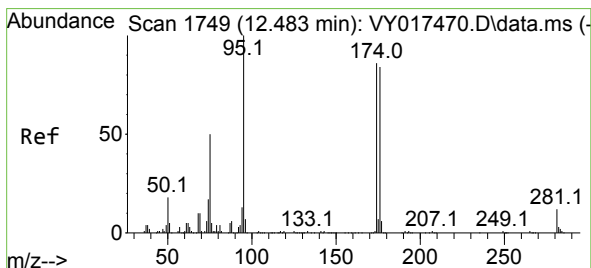
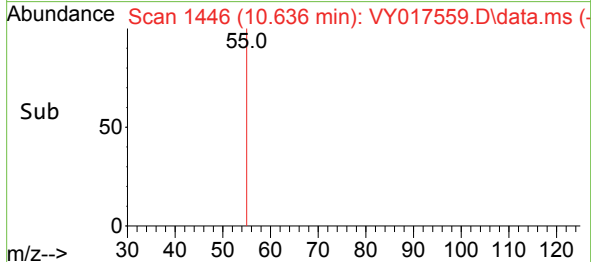
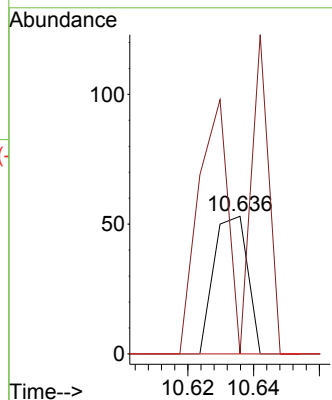
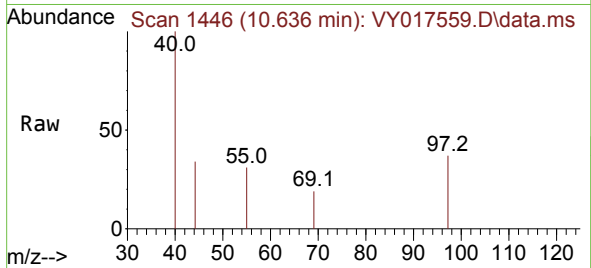




#56  
Ethyl methacrylate  
Concen: 2.589 ug/l  
RT: 10.636 min Scan# 1426  
Delta R.T. 0.122 min  
Lab File: VY017559.D  
Acq: 01 Mar 2024 18:35

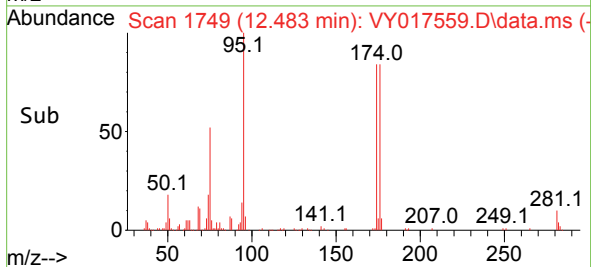
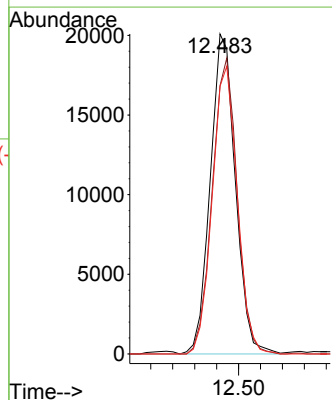
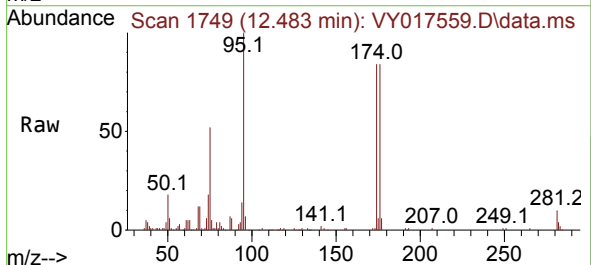
Instrument :  
MSVOA\_Y  
ClientSampleId :  
BP-VPB-195-GW-1000-1002RE

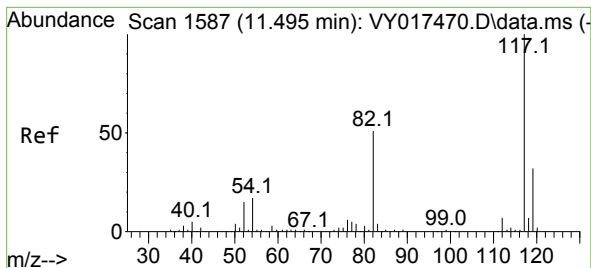
Tgt Ion: 69 Resp: 38  
Ion Ratio Lower Upper  
69 100  
41 160.5 42.3 63.5#  
39 0.0 22.9 34.3#



#62  
4-Bromofluorobenzene  
Concen: 40.109 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY017559.D  
Acq: 01 Mar 2024 18:35

Tgt Ion: 95 Resp: 32007  
Ion Ratio Lower Upper  
95 100  
174 91.6 0.0 175.6  
176 89.4 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.495 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY017559.D

Acq: 01 Mar 2024 18:35

Instrument :

MSVOA\_Y

ClientSampleId :

BP-VPB-195-GW-1000-1002RE

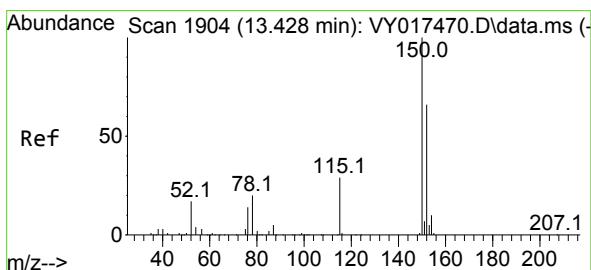
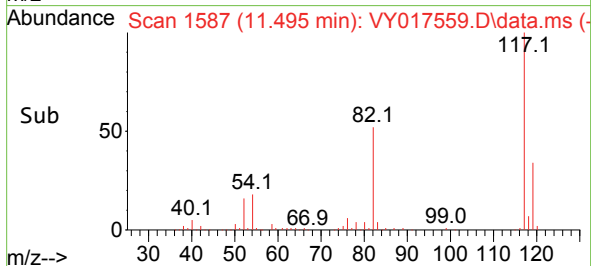
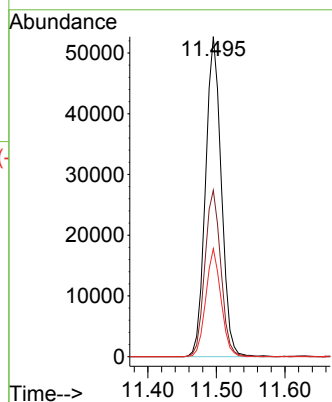
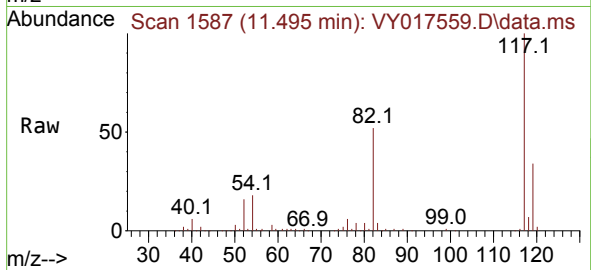
Tgt Ion:117 Resp: 84636

Ion Ratio Lower Upper

117 100

82 52.0 42.4 63.6

119 33.7 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY017559.D

Acq: 01 Mar 2024 18:35

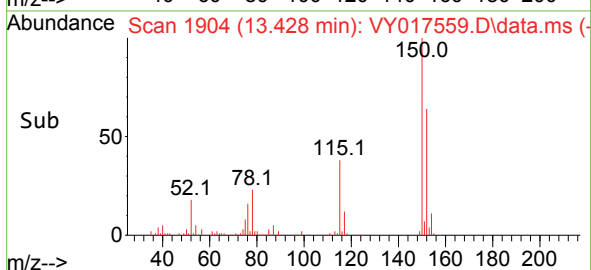
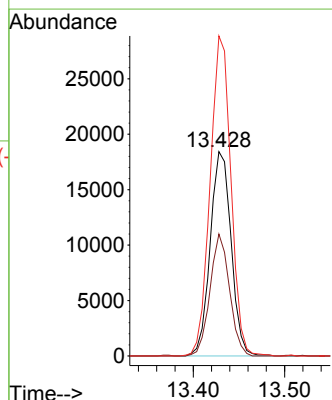
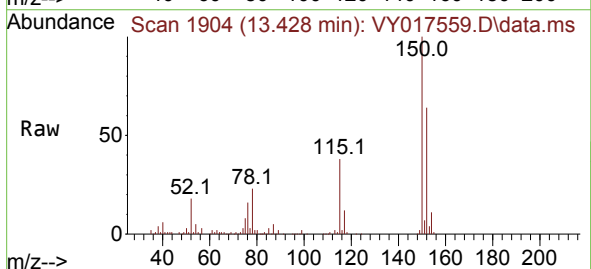
Tgt Ion:152 Resp: 29272

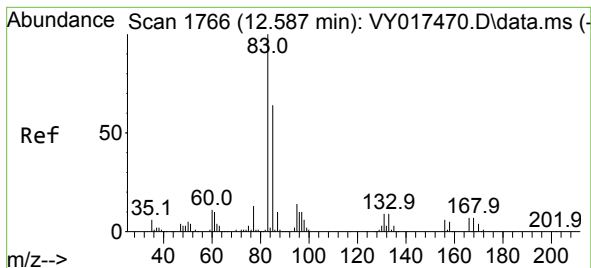
Ion Ratio Lower Upper

152 100

115 55.6 28.2 84.7

150 155.4 0.0 345.6





#75

1,1,2,2-Tetrachloroethane

Concen: 1.068 ug/l

RT: 12.599 min Scan# 1768

Delta R.T. 0.012 min

Lab File: VY017559.D

Acq: 01 Mar 2024 18:35

Instrument :

MSVOA\_Y

ClientSampleId :

BP-VPB-195-GW-1000-1002RE

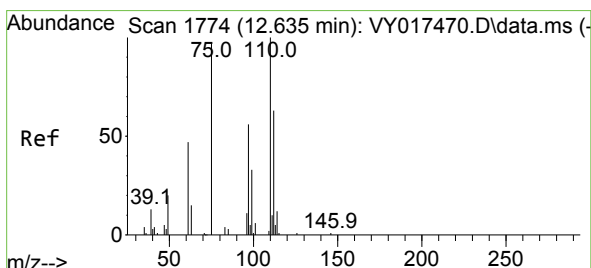
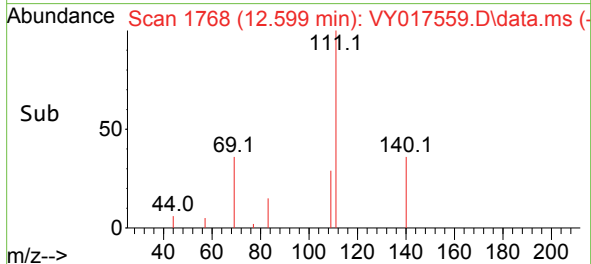
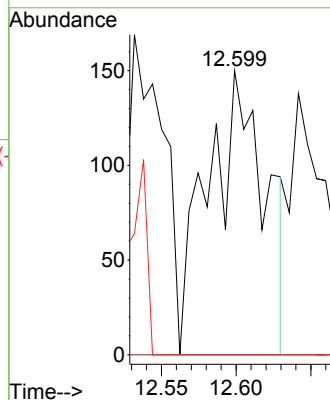
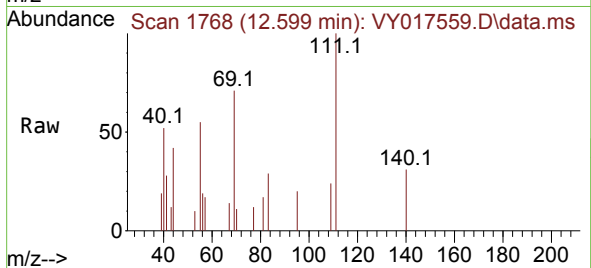
Tgt Ion: 83 Resp: 399

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 58.063 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY017559.D

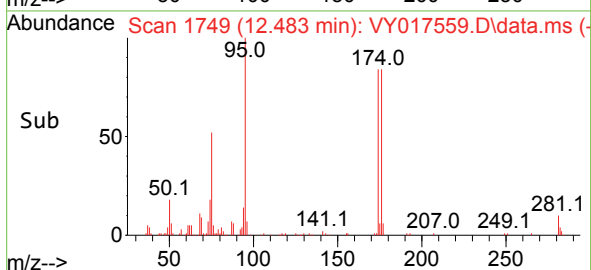
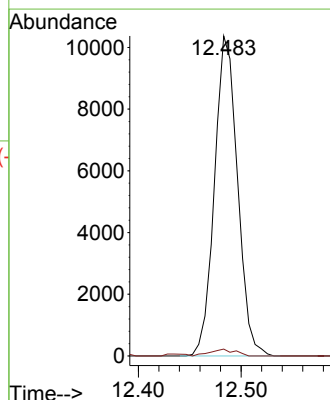
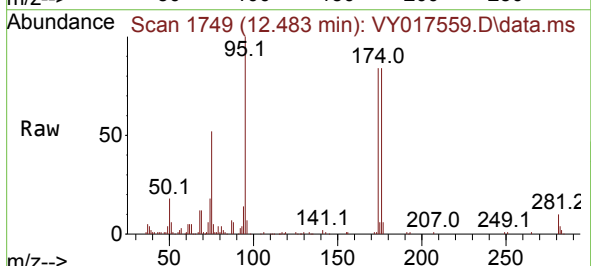
Acq: 01 Mar 2024 18:35

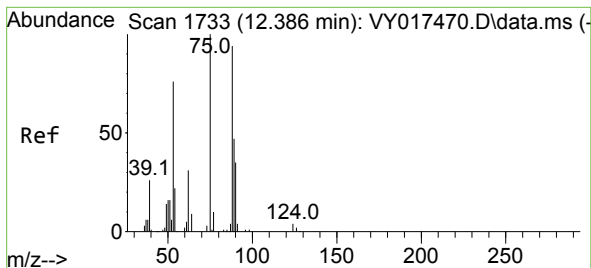
Tgt Ion: 75 Resp: 16149

Ion Ratio Lower Upper

75 100

77 2.3 0.0 0.0#

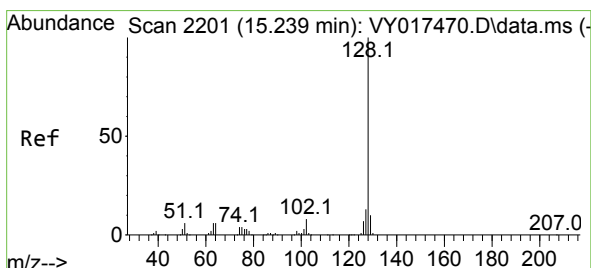
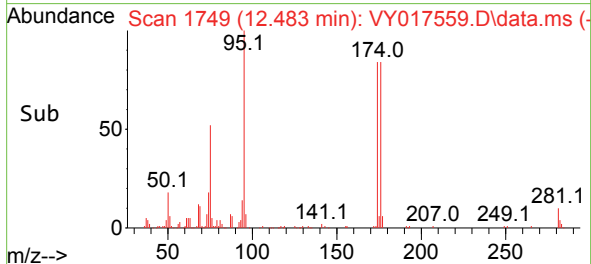
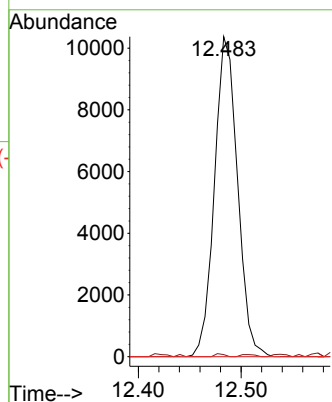
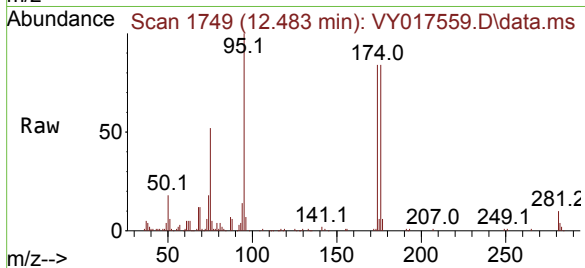




#81  
trans-1,4-Dichloro-2-butene  
Concen: 133.416 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.098 min  
Lab File: VY017559.D  
Acq: 01 Mar 2024 18:35

Instrument :  
MSVOA\_Y  
ClientSampleId :  
BP-VPB-195-GW-1000-1002RE

| Tgt Ion: | 75    | Resp: | 16149  |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.4   | 66.8  | 100.2# |
| 89       | 0.0   | 35.8  | 53.6#  |



#95  
Naphthalene  
Concen: 6.300 ug/l  
RT: 15.239 min Scan# 2201  
Delta R.T. -0.000 min  
Lab File: VY017559.D  
Acq: 01 Mar 2024 18:35

| Tgt Ion: | 128   | Resp: | 2369  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.3  | 10.6  | 16.0  |
| 129      | 12.4  | 8.6   | 13.0  |

