

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070220\  
 Data File : VX017159.D  
 Acq On : 02 Jul 2020 19:19  
 Operator : JC/SP  
 Sample : L3164-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-MW180-GW-588-590

Quant Time: Jul 06 08:12:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 29 17:10:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 211012   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 352679   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 363921   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 194271   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 140596   | 54.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.10% |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 118972   | 53.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.66% |          |
| 50) Toluene-d8              | 8.70  | 98   | 432260   | 52.40 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.80% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 180219   | 55.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.76% |          |

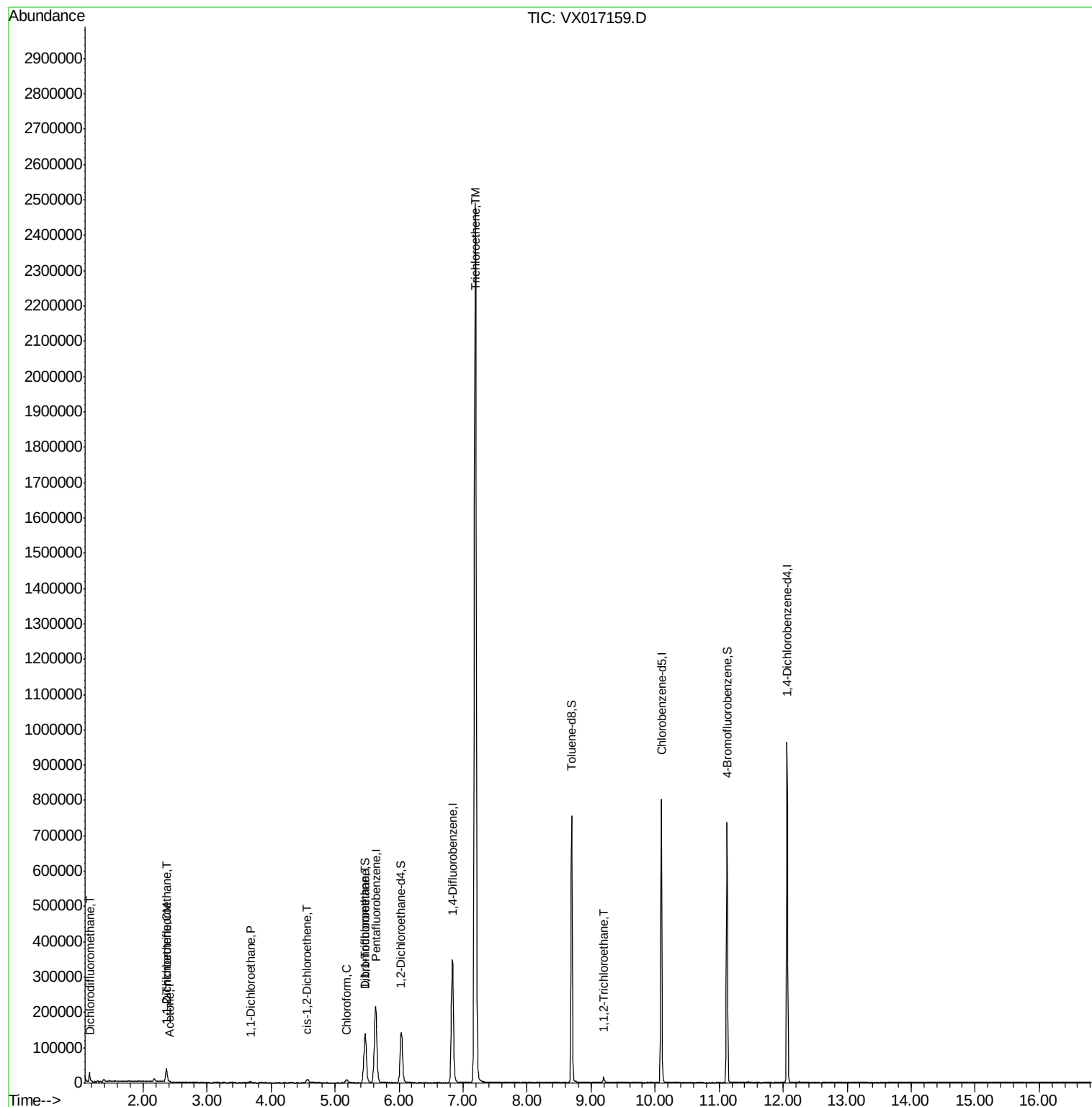
| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85   | 1511     | 0.740   | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101  | 9791     | 4.818   | ug/l   | 95     |
| 12) 1,1-Dichloroethene        | 2.36 | 96   | 6081     | 2.913   | ug/l   | 90     |
| 16) Acetone                   | 2.42 | 43   | 2351     | 2.416   | ug/l # | 87     |
| 24) 1,1-Dichloroethane        | 3.67 | 63   | 3728     | 0.918   | ug/l # | 93     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96   | 6526     | 2.486   | ug/l   | 89     |
| 30) Chloroform                | 5.18 | 83   | 9542     | 2.291   | ug/l   | 91     |
| 32) 1,1,1-Trichloroethane     | 5.47 | 97   | 1224     | 0.319   | ug/l # | 43     |
| 44) Trichloroethene           | 7.19 | 130  | 981283   | 365.047 | ug/l   | 99     |
| 55) 1,1,2-Trichloroethane     | 9.20 | 97   | 4292     | 1.718   | ug/l   | 95     |

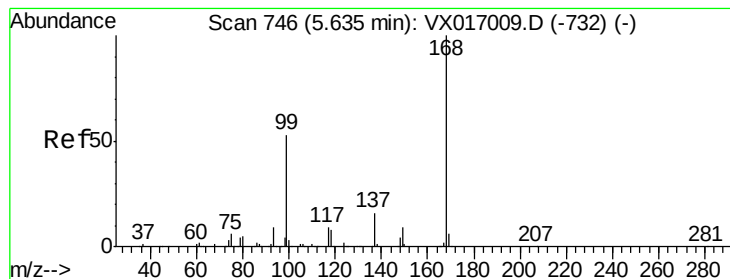
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jun 29 17:10:38 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Instrument :

MSVOA\_X

ClientSampleId :

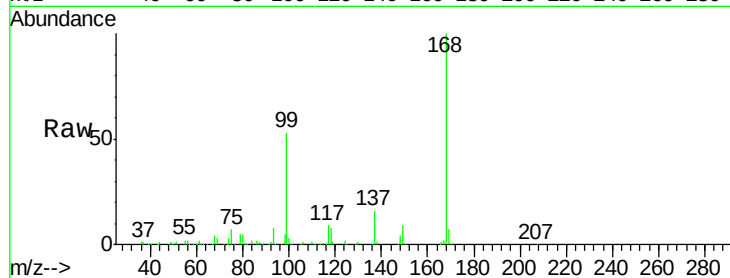
BP-MW180-GW-588-590

Tot Ion:168 Resp: 211012

Ion Ratio Lower Upper

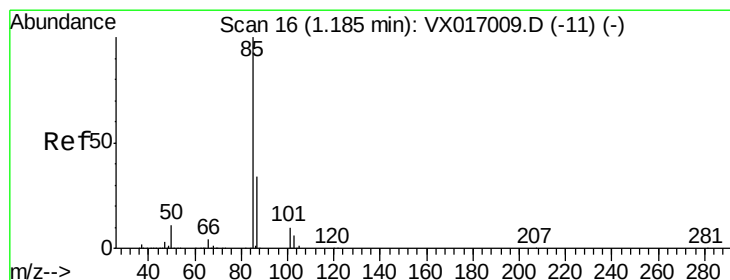
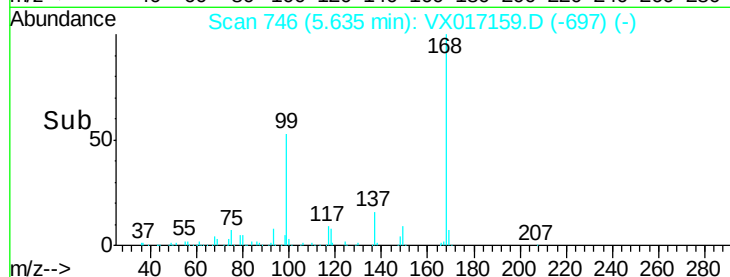
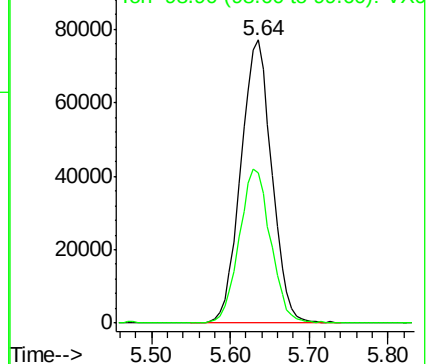
168 100

99 53.2 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.740 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017159.D

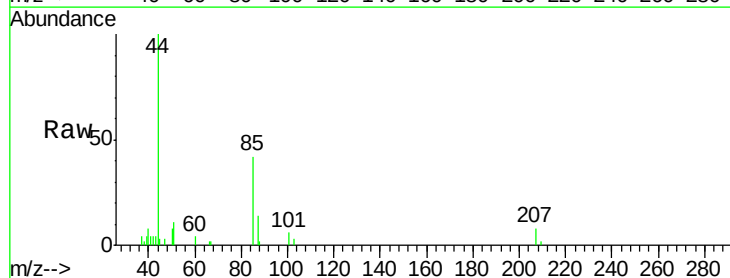
Acq: 02 Jul 2020 19:19

Tgt Ion: 85 Resp: 1511

Ion Ratio Lower Upper

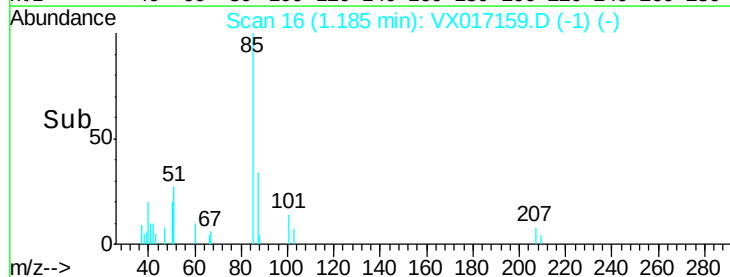
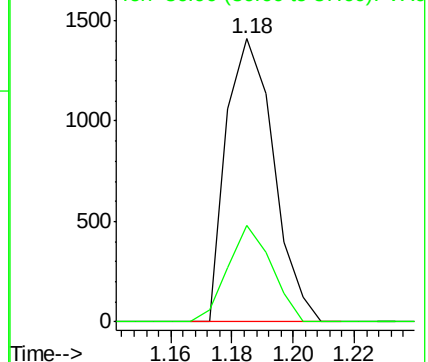
85 100

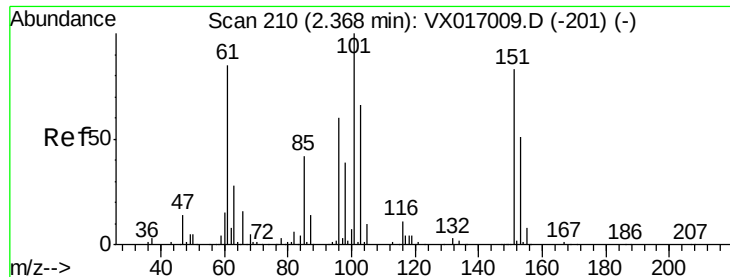
87 34.1 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.818 ug/l

RT: 2.37 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Instrument :

MSVOA\_X

ClientSampleId :

BP-MW180-GW-588-590

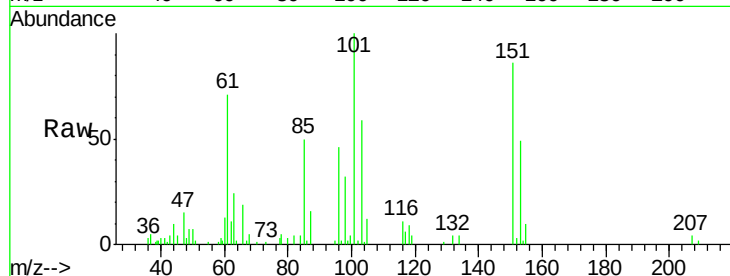
Tot Ion:101 Resp: 9791

Ion Ratio Lower Upper

101 100

85 45.8 33.5 50.3

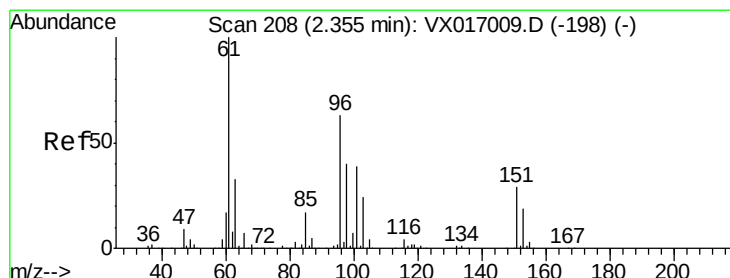
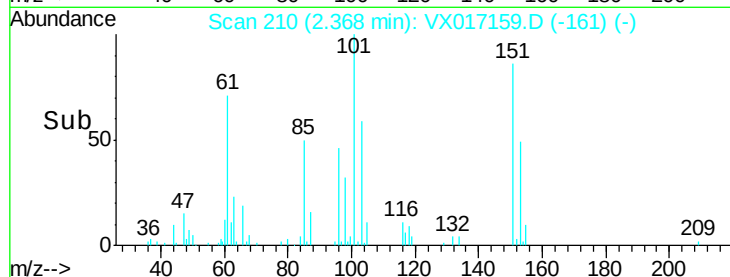
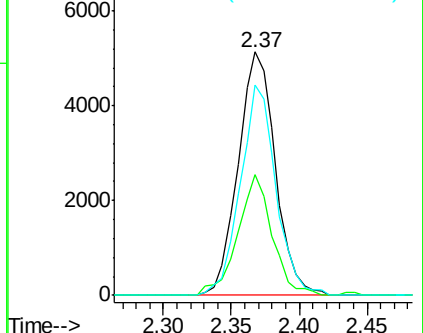
151 83.0 63.8 95.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 2.913 ug/l

RT: 2.36 min Scan# 208

Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

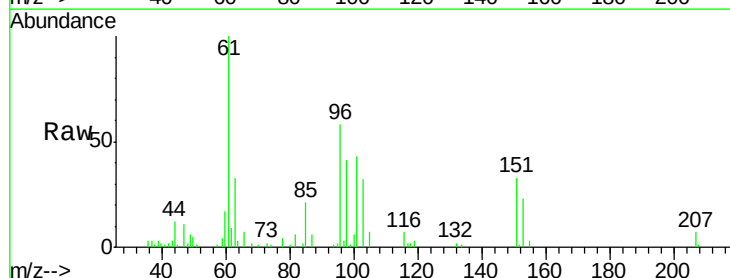
Tgt Ion: 96 Resp: 6081

Ion Ratio Lower Upper

96 100

61 172.3 126.3 189.5

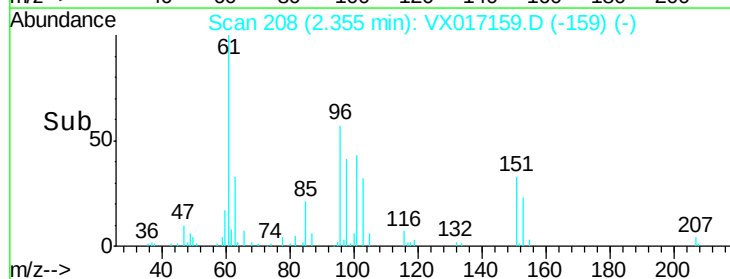
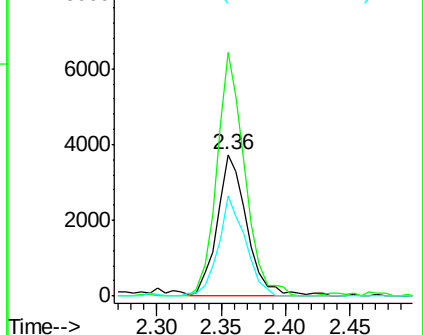
98 71.0 51.0 76.6

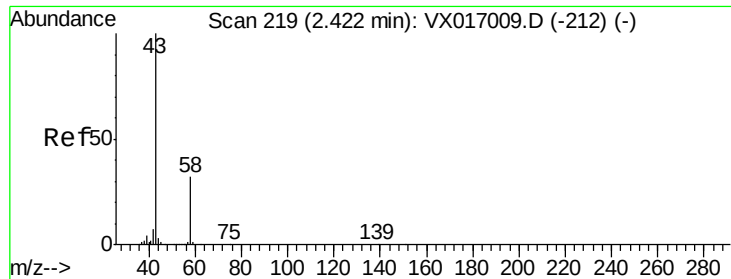


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#16

Acetone

Concen: 2.416 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Instrument :

MSVOA\_X

ClientSampleId :

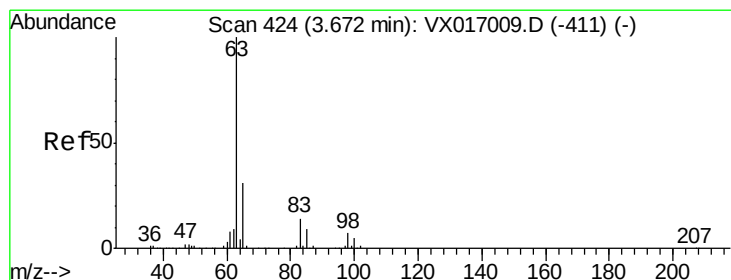
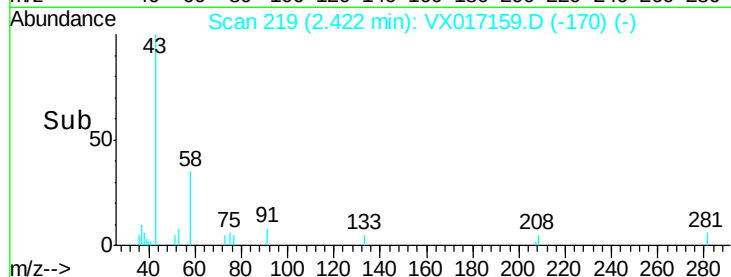
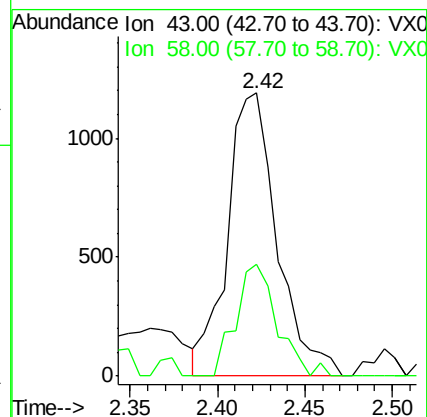
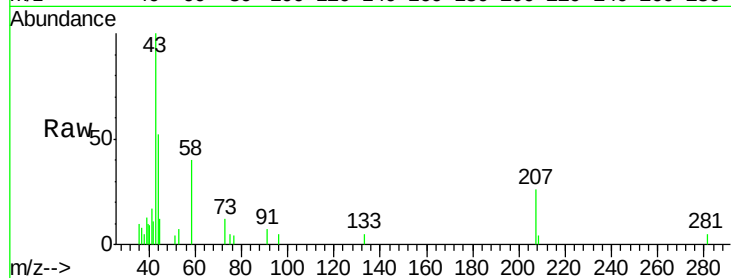
BP-MW180-GW-588-590

Tot Ion: 43 Resp: 2351

Ion Ratio Lower Upper

43 100

58 39.6 25.7 38.5#



#24

1,1-Dichloroethane

Concen: 0.918 ug/l

RT: 3.67 min Scan# 424

Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

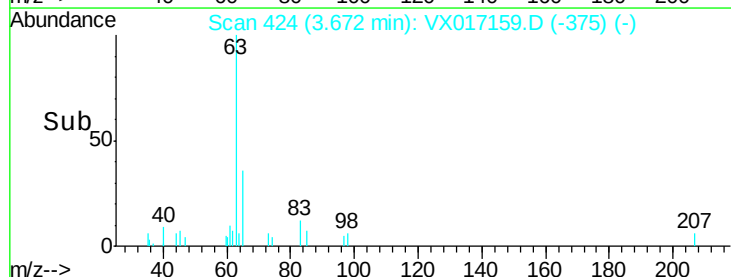
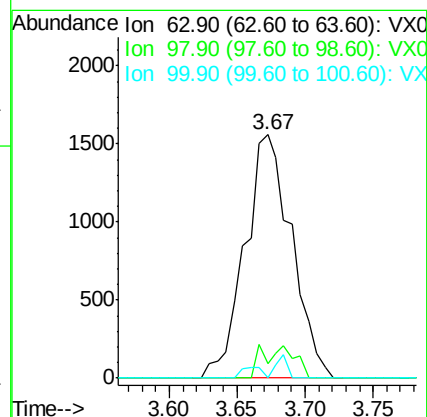
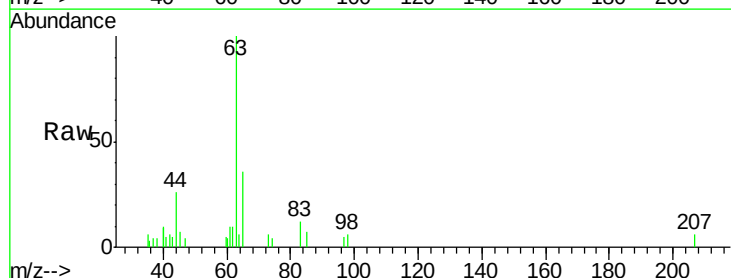
Tgt Ion: 63 Resp: 3728

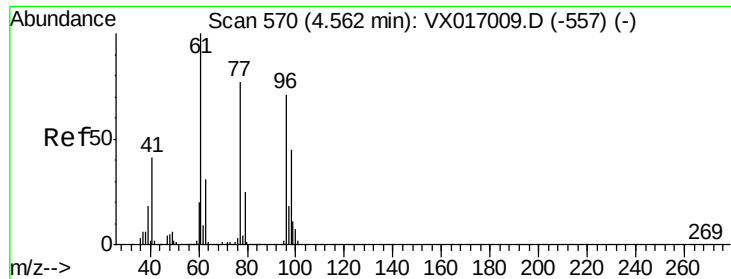
Ion Ratio Lower Upper

63 100

98 6.2 3.6 10.8

100 0.0 2.4 7.1#



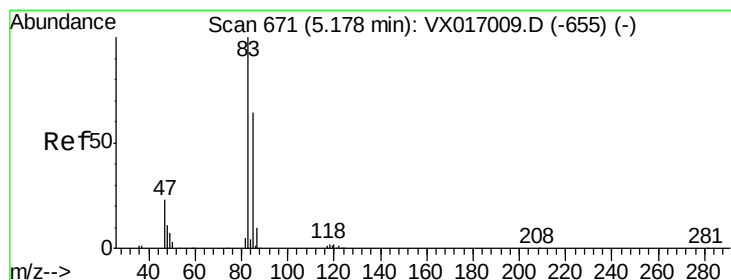
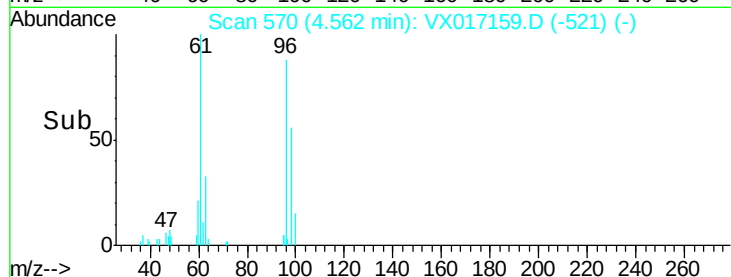
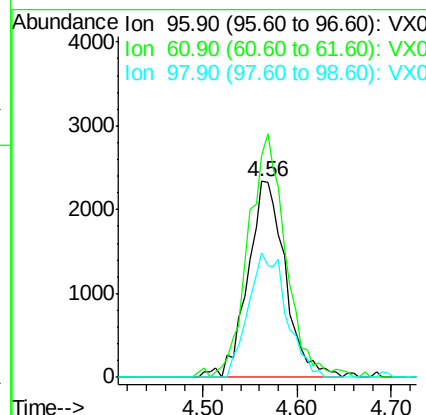
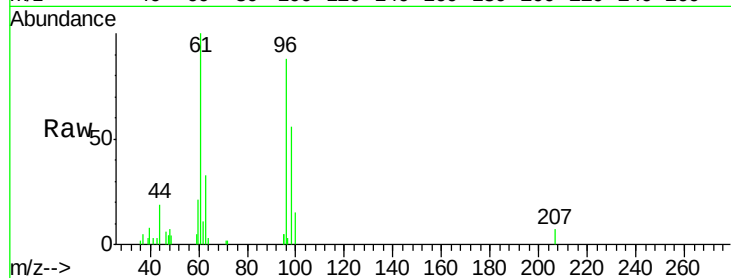


#27

cis-1,2-Dichloroethene  
 Concen: 2.486 ug/l  
 RT: 4.56 min Scan# 570  
 Delta R.T. 0.00 min  
 Lab File: VX017159.D  
 Acq: 02 Jul 2020 19:19

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-MW180-GW-588-590

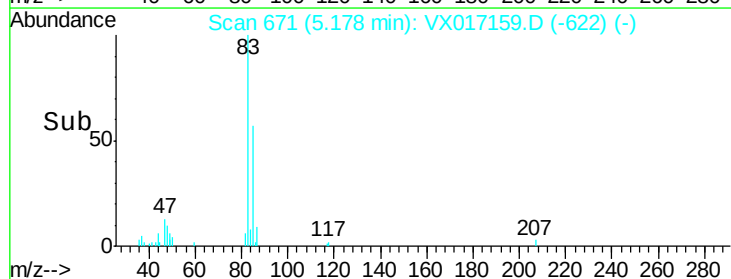
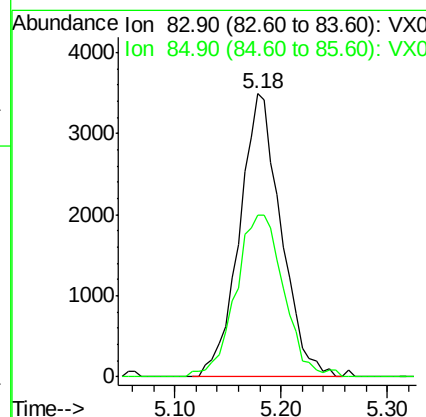
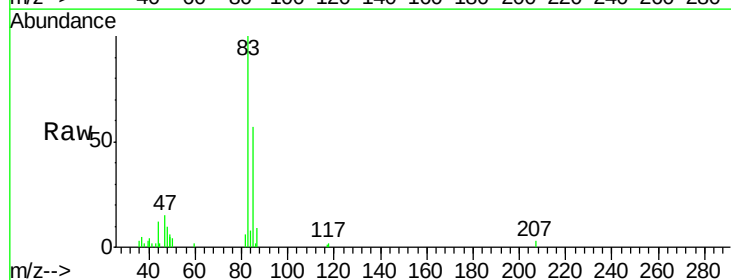
| Tot Ion | 96    | Resp  | 6526  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 96      | 100   |       |       |
| 61      | 122.6 | 0.0   | 282.8 |
| 98      | 64.6  | 0.0   | 127.6 |

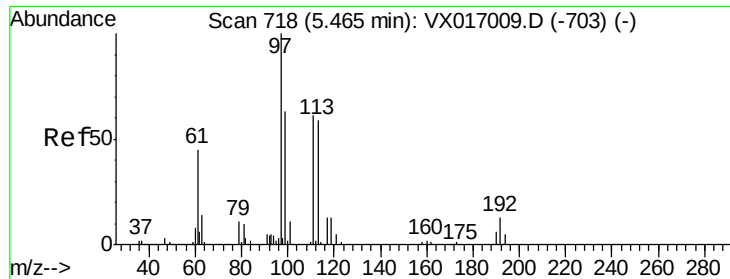


#30

Chloroform  
 Concen: 2.291 ug/l  
 RT: 5.18 min Scan# 671  
 Delta R.T. 0.00 min  
 Lab File: VX017159.D  
 Acq: 02 Jul 2020 19:19

| Tgt Ion | 83    | Resp  | 9542  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 83      | 100   |       |       |
| 85      | 56.9  | 51.4  | 77.2  |





#32

1,1,1-Trichloroethane

Concen: 0.319 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Instrument :

MSVOA\_X

ClientSampleId :

BP-MW180-GW-588-590

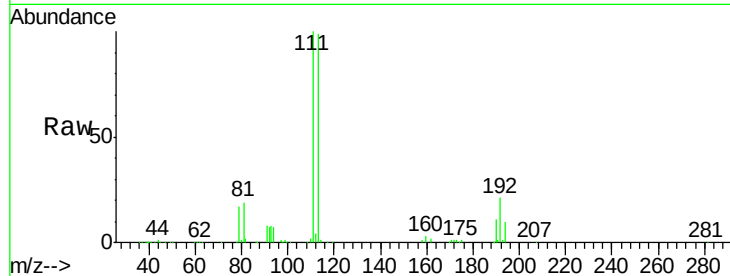
Tot Ion: 97 Resp: 1224

Ion Ratio Lower Upper

97 100

99 0.0 50.8 76.2#

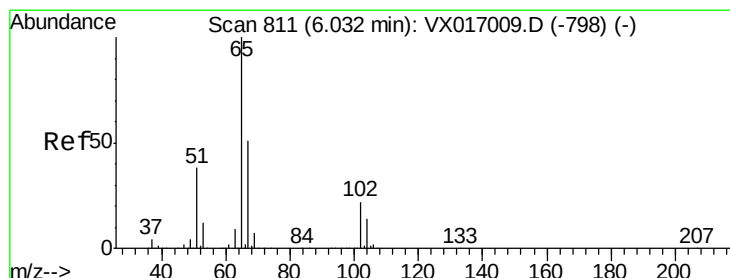
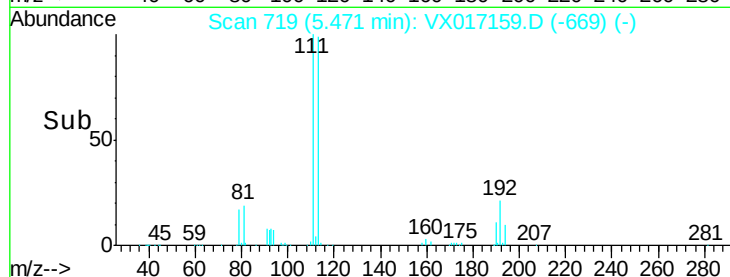
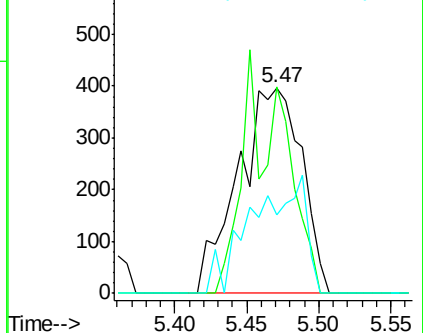
61 28.8 33.7 50.5#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.047 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX017159.D

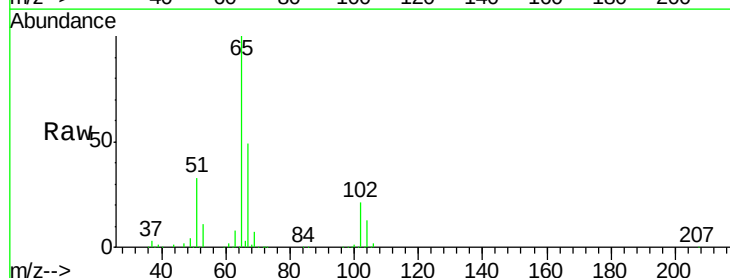
Acq: 02 Jul 2020 19:19

Tgt Ion: 65 Resp: 140596

Ion Ratio Lower Upper

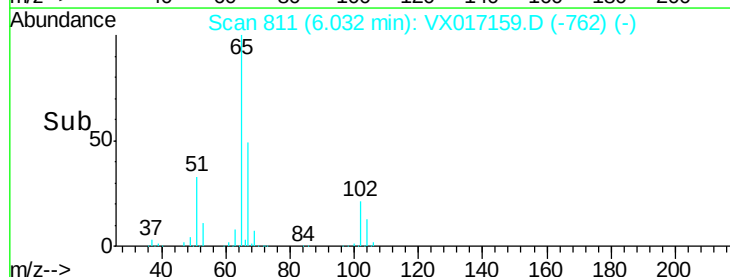
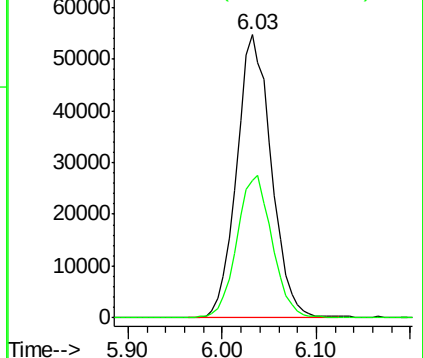
65 100

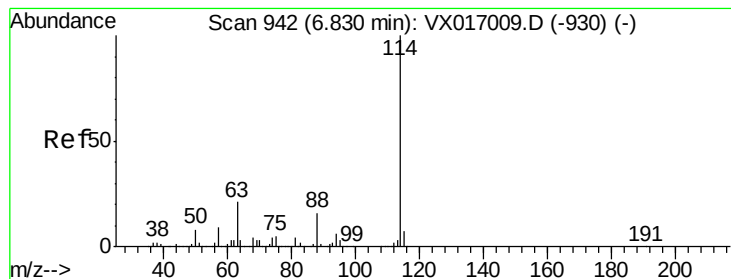
67 51.4 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Instrument :

MSVOA\_X

ClientSampleId :

BP-MW180-GW-588-590

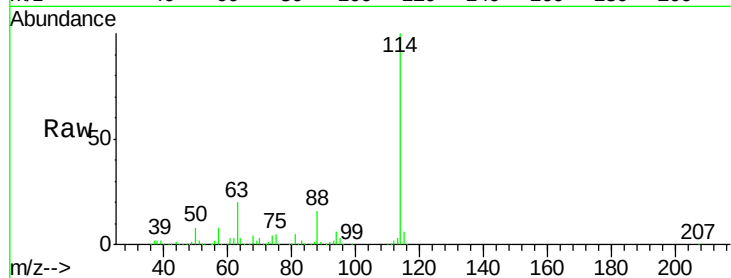
Tot Ion:114 Resp: 352679

Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.4

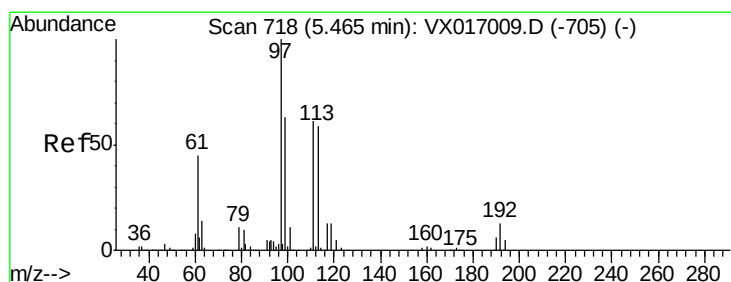
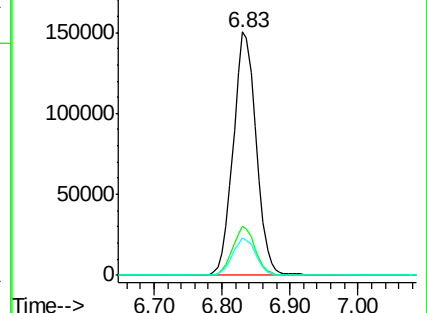
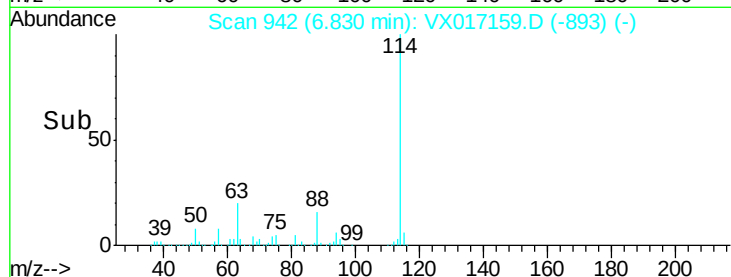
88 15.6 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 53.328 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

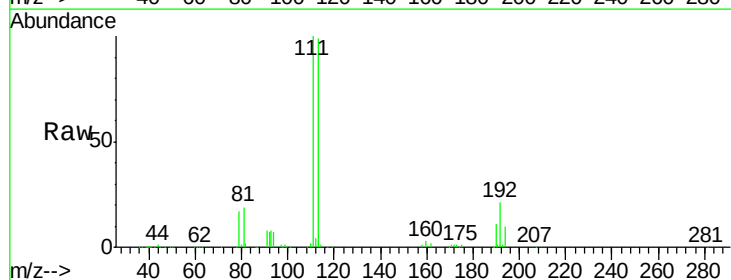
Tgt Ion:113 Resp: 118972

Ion Ratio Lower Upper

113 100

111 101.7 81.9 122.9

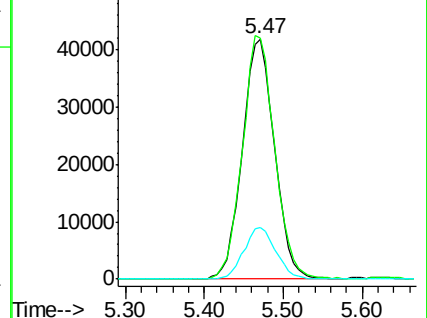
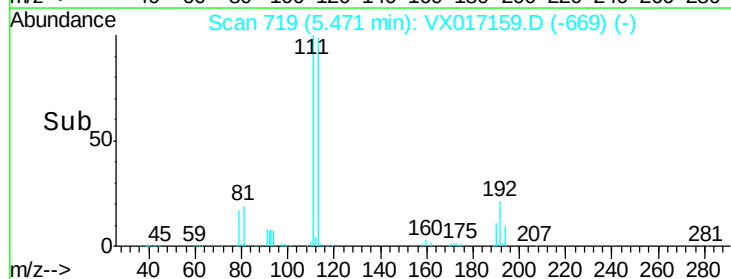
192 21.4 16.7 25.1



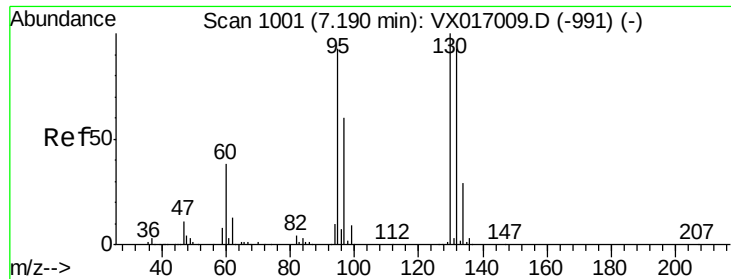
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V







#44

Trichloroethene

Concen: 365.047 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Instrument :

MSVOA\_X

ClientSampleId :

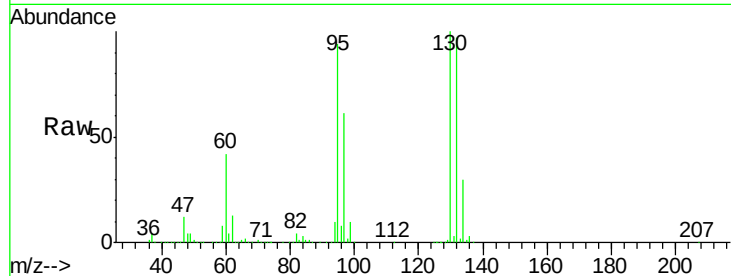
BP-MW180-GW-588-590

Tot Ion:130 Resp: 981283

Ion Ratio Lower Upper

130 100

95 93.8 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

500000

400000

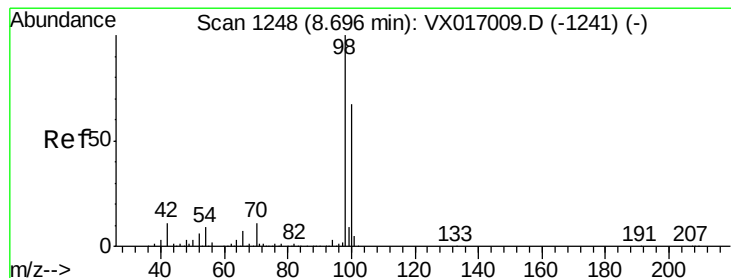
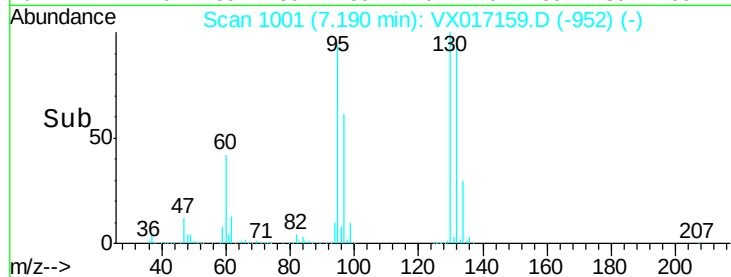
300000

200000

100000

0

Time-->



#50

Toluene-d8

Concen: 52.398 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX017159.D

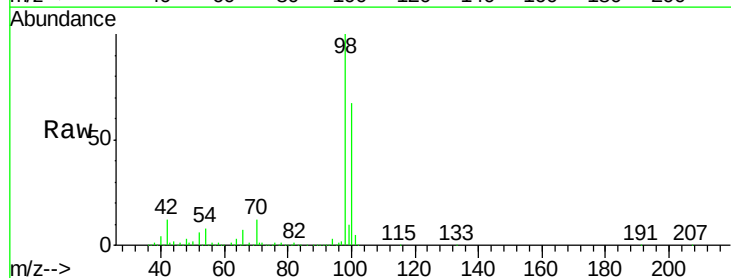
Acq: 02 Jul 2020 19:19

Tgt Ion: 98 Resp: 432260

Ion Ratio Lower Upper

98 100

100 66.6 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.70

300000

250000

200000

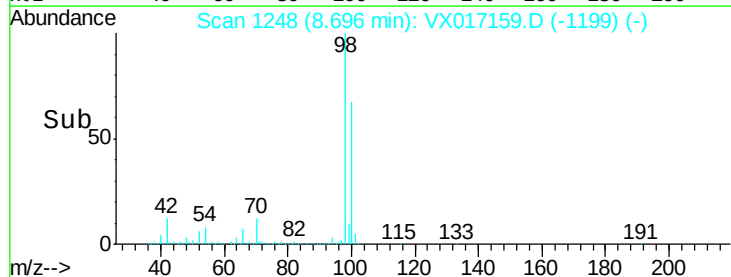
150000

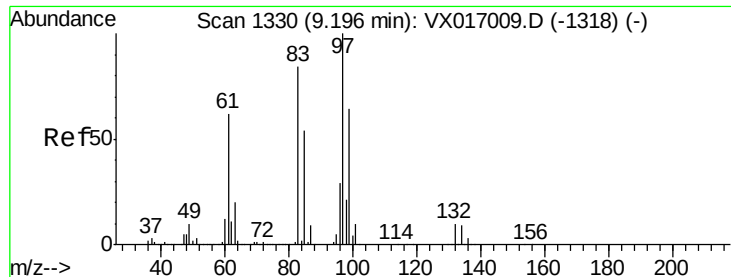
100000

50000

0

Time-->

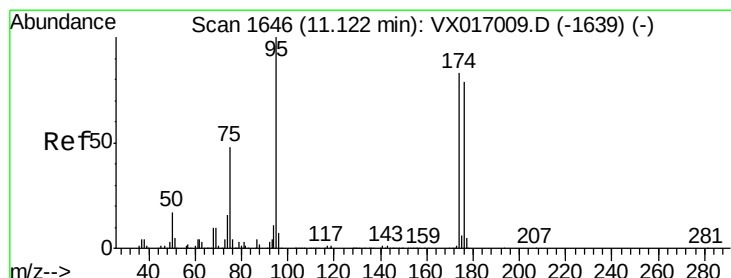
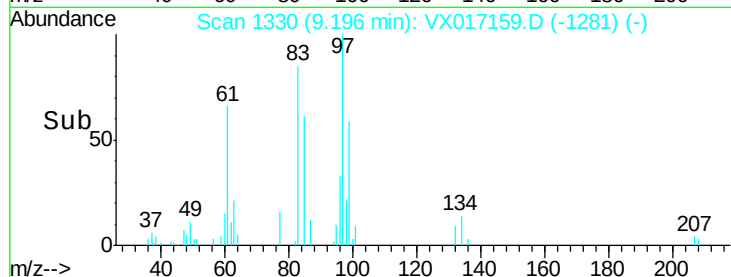
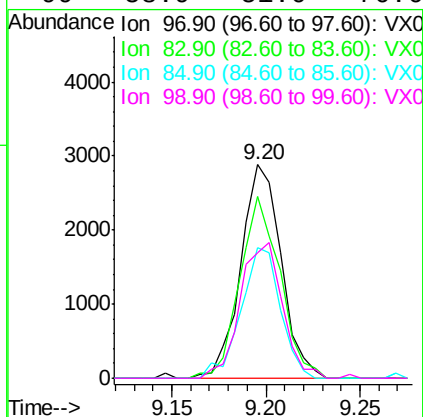
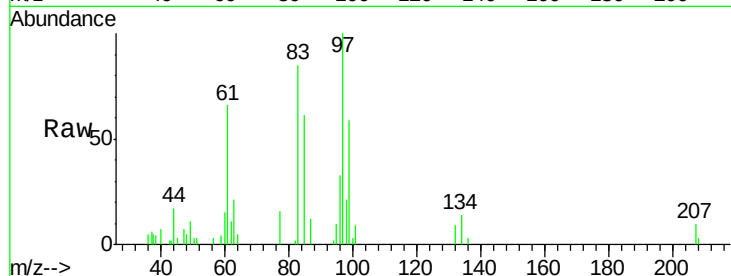




#55  
 1,1,2-Trichloroethane  
 Concen: 1.718 ug/l  
 RT: 9.20 min Scan# 1330  
 Delta R.T. 0.00 min  
 Lab File: VX017159.D  
 Acq: 02 Jul 2020 19:19

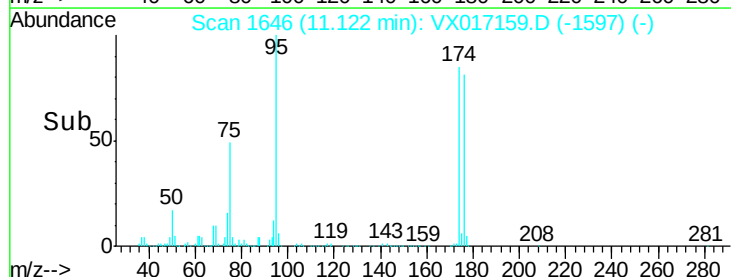
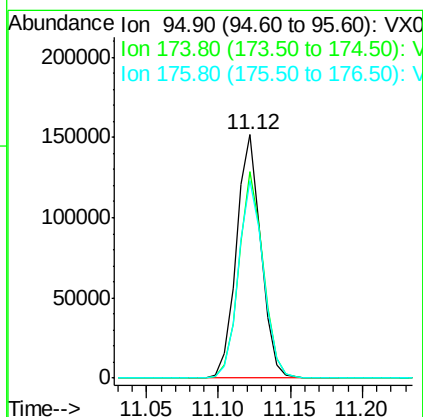
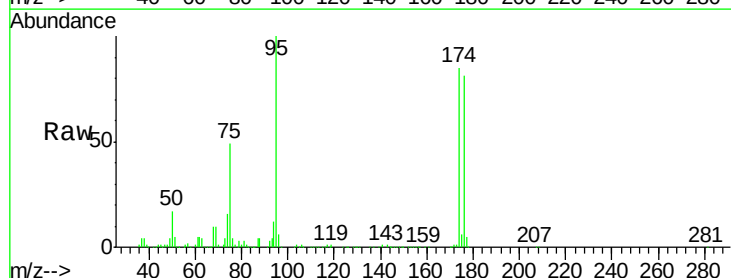
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-MW180-GW-588-590

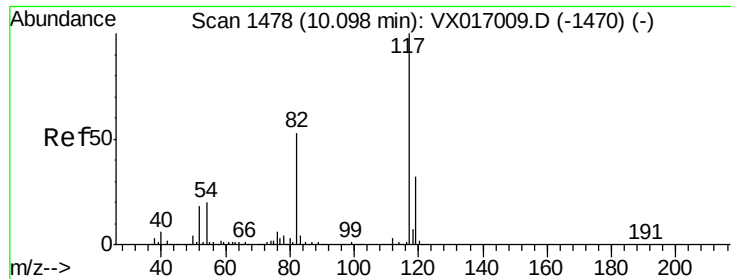
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 4292  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 85.3  | 67.0  | 100.6 |
| 85       | 61.4  | 43.5  | 65.3  |
| 99       | 58.9  | 51.0  | 76.6  |



#62  
 4-Bromofluorobenzene  
 Concen: 55.884 ug/l  
 RT: 11.12 min Scan# 1646  
 Delta R.T. 0.00 min  
 Lab File: VX017159.D  
 Acq: 02 Jul 2020 19:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 180219 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 84.1  | 0.0   | 164.0  |
| 176      | 81.8  | 0.0   | 157.6  |

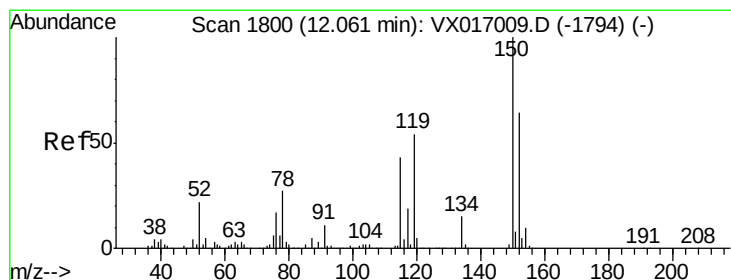
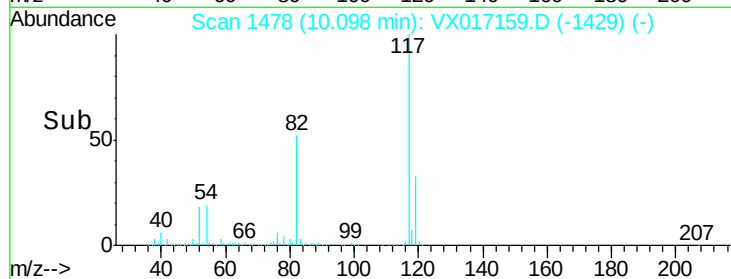
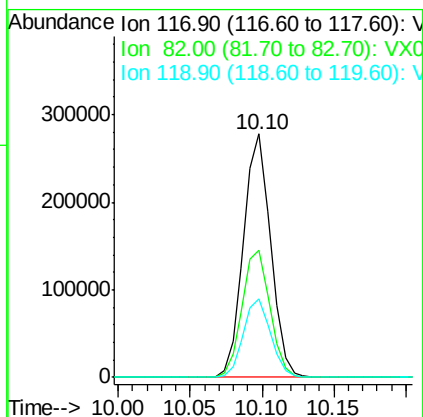
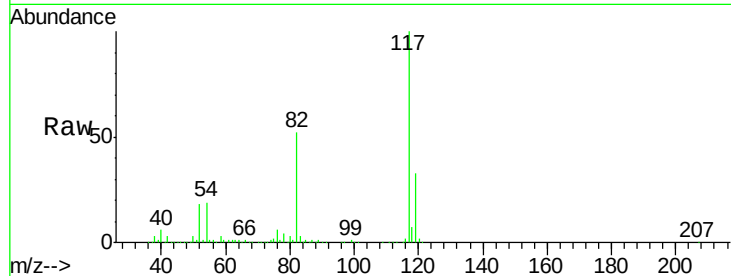




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: VX017159.D  
Acq: 02 Jul 2020 19:19

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-MW180-GW-588-590

Tot Ion:117 Resp: 363921  
Ion Ratio Lower Upper  
117 100  
82 52.1 42.6 63.8  
119 32.5 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. 0.00 min  
Lab File: VX017159.D  
Acq: 02 Jul 2020 19:19

Tgt Ion:152 Resp: 194271  
Ion Ratio Lower Upper  
152 100  
115 57.3 40.9 122.7  
150 157.5 0.0 351.6

