

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX053019\  
 Data File : VX009970.D  
 Acq On : 30 May 2019 18:59  
 Operator : JC/SP  
 Sample : K3104-07  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PIT-WATER

Quant Time: May 31 05:36:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 29 04:00:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 169282   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 271986   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 245766   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 107225   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 117384   | 49.09 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.18% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 84659    | 49.51 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.02% |          |
| 50) Toluene-d8              | 8.71  | 98   | 345560   | 49.76 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.52% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 117285   | 47.02 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.04% |          |

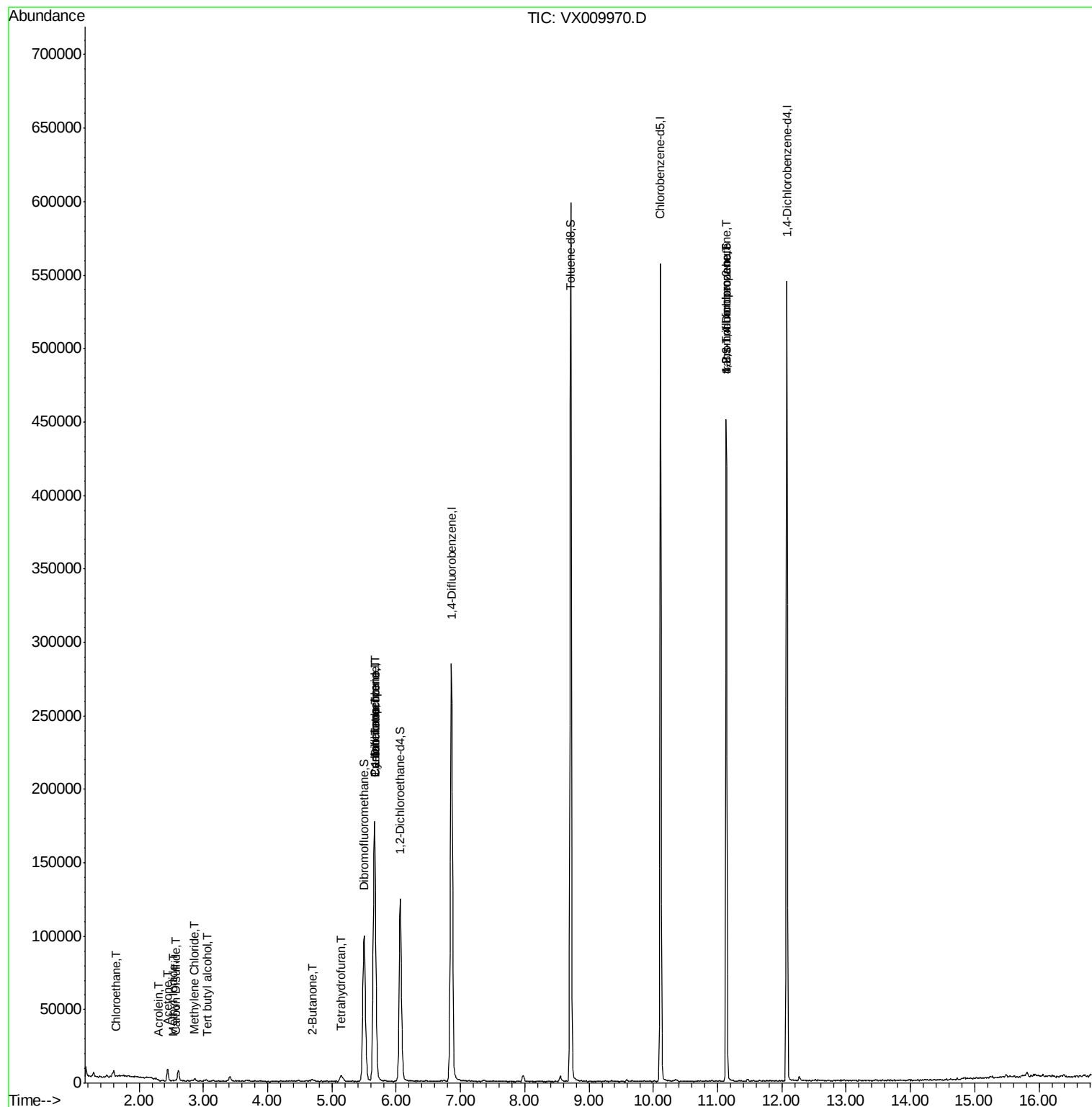
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 6) Chloroethane                | 1.65  | 64   | 2010     | 1.302  | ug/l # | 60     |
| 10) Methyl Iodide              | 2.53  | 142  | 49       | 4.678  | ug/l # | 42     |
| 11) Tert butyl alcohol         | 3.06  | 59   | 669      | 1.137  | ug/l # | 80     |
| 13) Acrolein                   | 2.31  | 56   | 52       | 21.211 | ug/l # | 1      |
| 16) Acetone                    | 2.44  | 43   | 8706     | 6.301  | ug/l   | 99     |
| 17) Carbon Disulfide           | 2.57  | 76   | 798      | 0.537  | ug/l # | 62     |
| 20) Methylene Chloride         | 2.86  | 84   | 572      | 0.270  | ug/l   | 86     |
| 25) 2-Butanone                 | 4.69  | 43   | 2093     | 0.972  | ug/l   | 99     |
| 29) Tetrahydrofuran            | 5.14  | 42   | 4327     | 3.135  | ug/l   | 95     |
| 31) Cyclohexane                | 5.66  | 56   | 4160     | 1.143  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 13875    | 5.028  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 16333    | 6.849  | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 60335    | 23.531 | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 60335    | 58.219 | ug/l # | 10     |

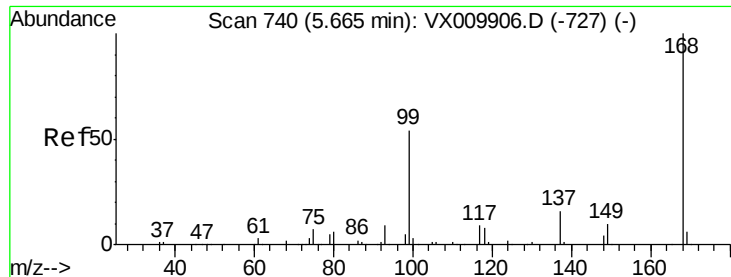
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX053019\  
Data File : VX009970.D  
Acq On : 30 May 2019 18:59  
Operator : JC/SP  
Sample : K3104-07  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
PIT-WATER

Quant Time: May 31 05:36:53 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 29 04:00:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009970.D

Acq: 30 May 2019 18:59

Instrument :

MSVOA\_X

ClientSampleId :

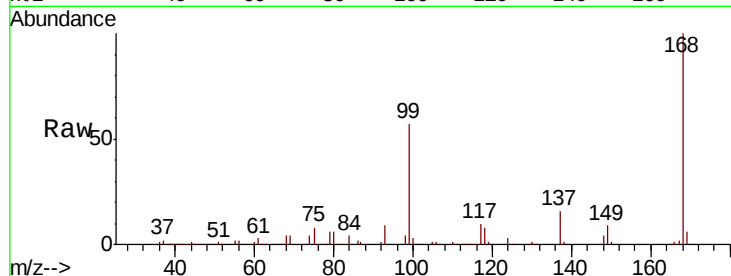
PIT-WATER

Tot Ion:168 Resp: 169282

Ion Ratio Lower Upper

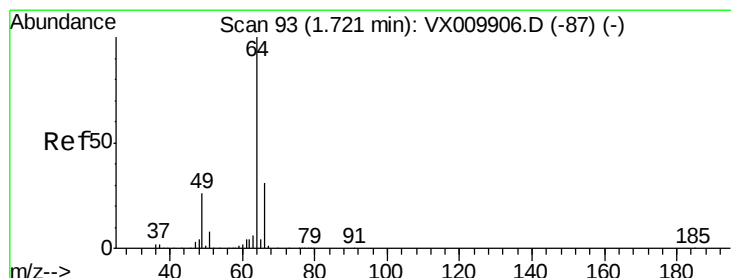
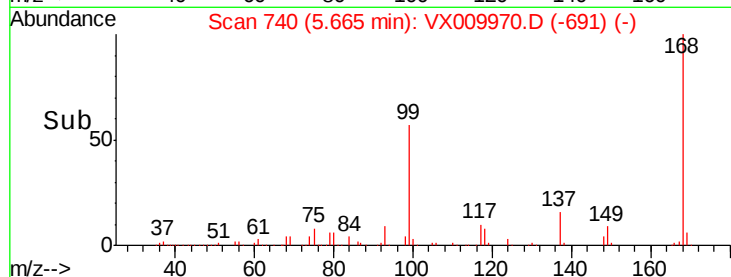
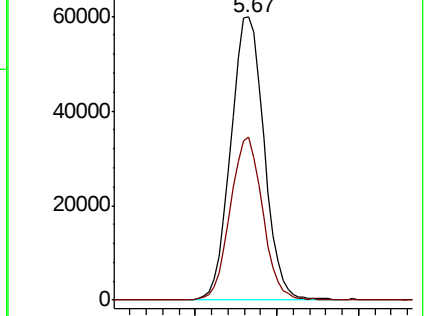
168 100

99 57.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 1.302 ug/l

RT: 1.65 min Scan# 82

Delta R.T. -0.07 min

Lab File: VX009970.D

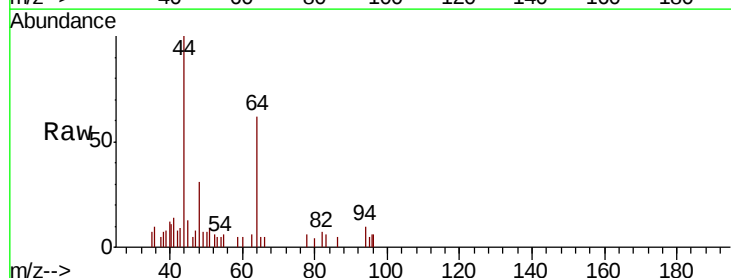
Acq: 30 May 2019 18:59

Tgt Ion: 64 Resp: 2010

Ion Ratio Lower Upper

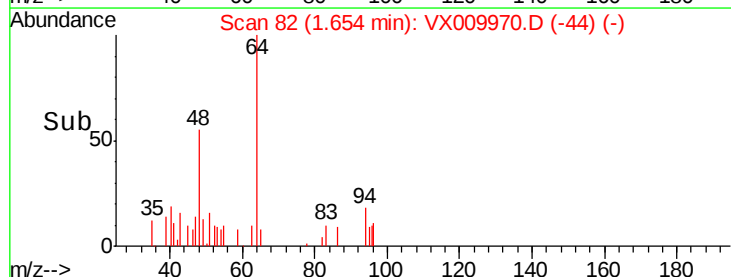
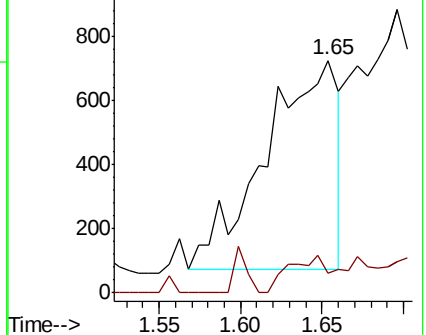
64 100

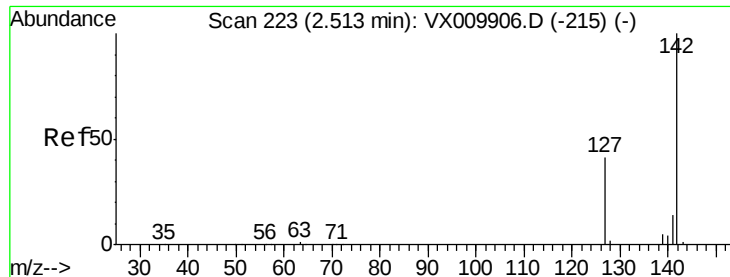
66 9.5 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

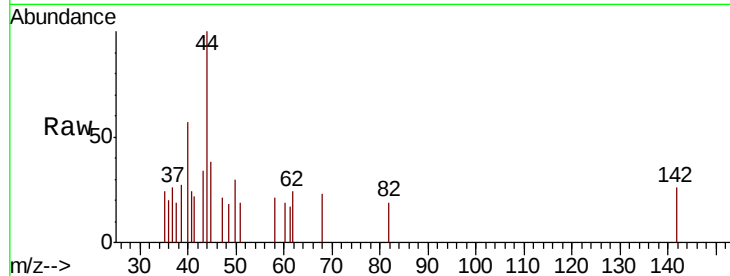




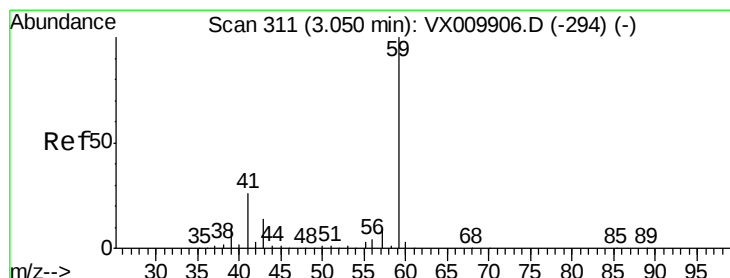
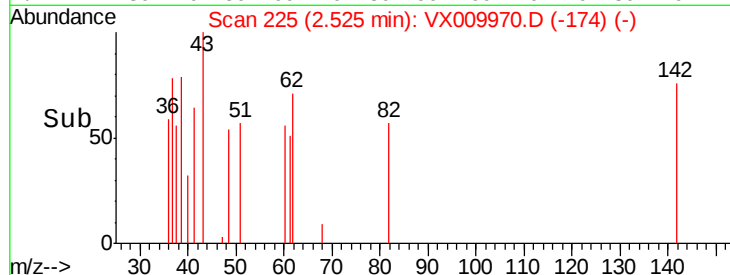
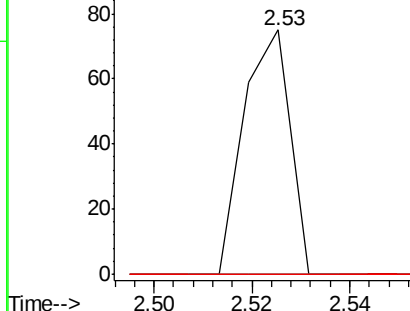
#10  
Methyl Iodide  
Concen: 4.678 ug/l  
RT: 2.53 min Scan# 225  
Delta R.T. 0.01 min  
Lab File: VX009970.D  
Acq: 30 May 2019 18:59

Instrument :  
MSVOA\_X  
ClientSampleId :  
PIT-WATER

Tot Ion:142 Resp: 49  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.0 49.4#  
141 0.0 11.4 17.0#

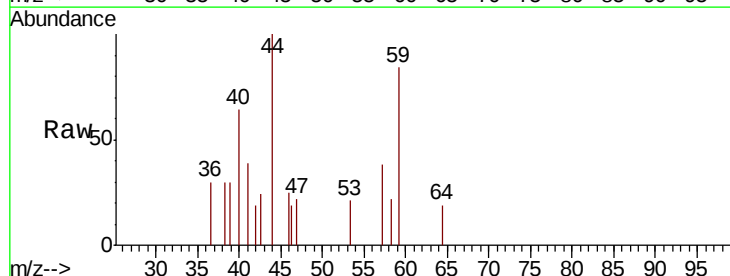


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

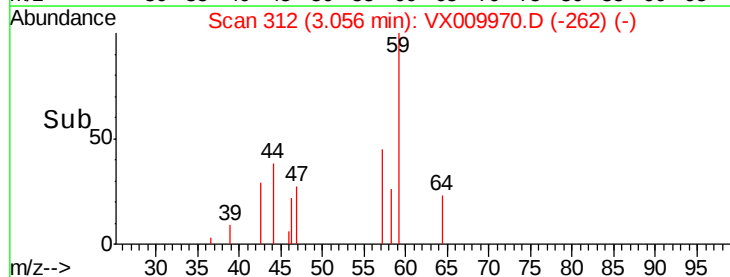
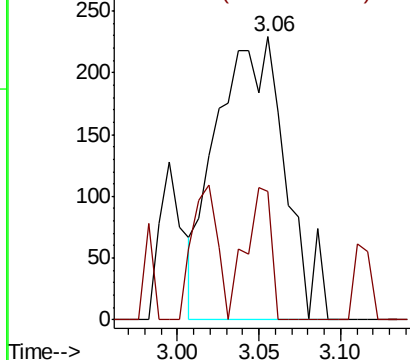


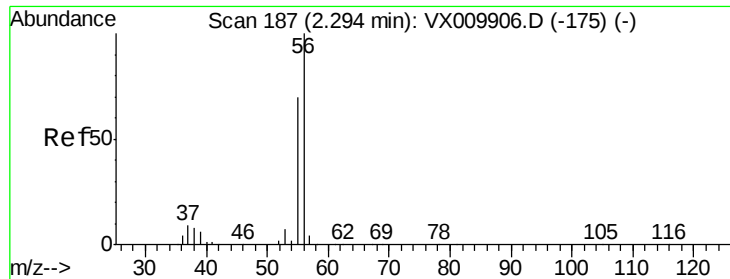
#11  
Tert butyl alcohol  
Concen: 1.137 ug/l  
RT: 3.06 min Scan# 312  
Delta R.T. 0.01 min  
Lab File: VX009970.D  
Acq: 30 May 2019 18:59

Tgt Ion: 59 Resp: 669  
Ion Ratio Lower Upper  
59 100  
57 17.5 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 21.211 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX009970.D

Acq: 30 May 2019 18:59

Instrument :

MSVOA\_X

ClientSampleId :

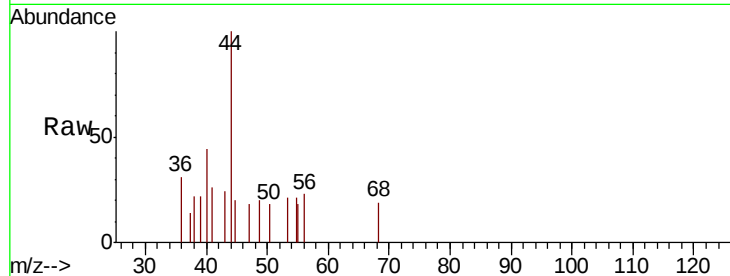
PIT-WATER

Tot Ion: 56 Resp: 52

Ion Ratio Lower Upper

56 100

55 182.7 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

150

100

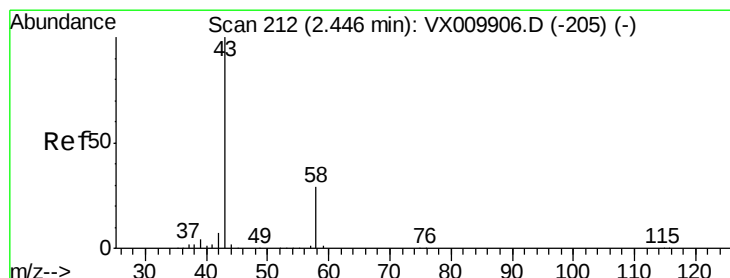
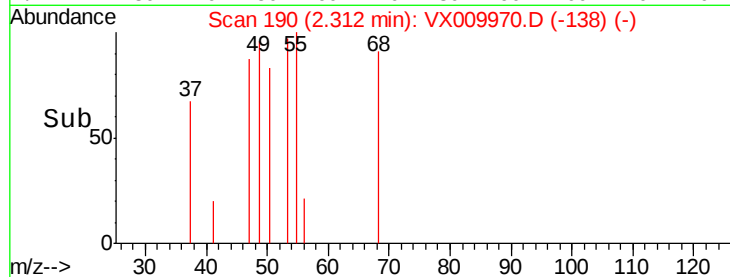
50

0

2.29 2.30 2.31 2.32 2.33

2.31

Time-->



#16

Acetone

Concen: 6.301 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009970.D

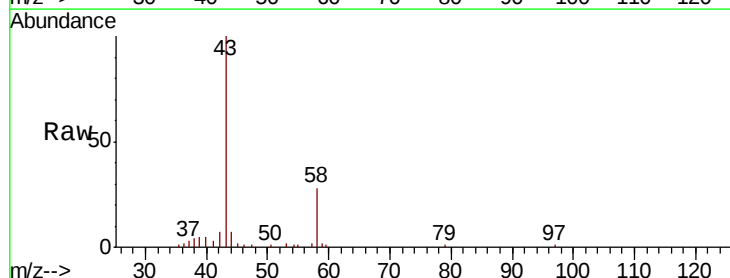
Acq: 30 May 2019 18:59

Tgt Ion: 43 Resp: 8706

Ion Ratio Lower Upper

43 100

58 28.6 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

6000

5000

4000

3000

2000

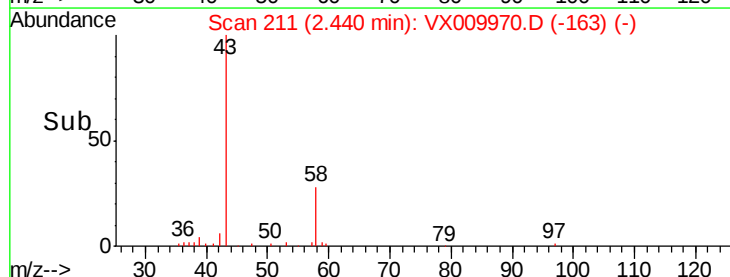
1000

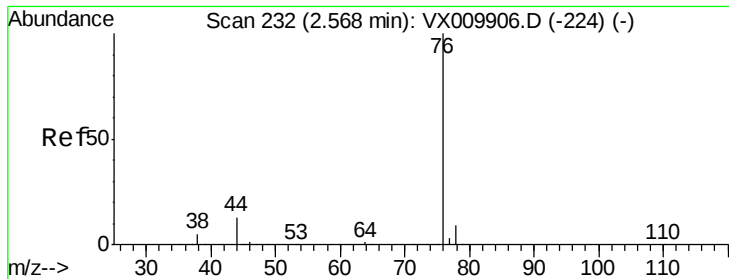
0

2.40 2.45 2.50

2.44

Time-->





#17

Carbon Disulfide

Concen: 0.537 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009970.D

Acq: 30 May 2019 18:59

Instrument :

MSVOA\_X

ClientSampleId :

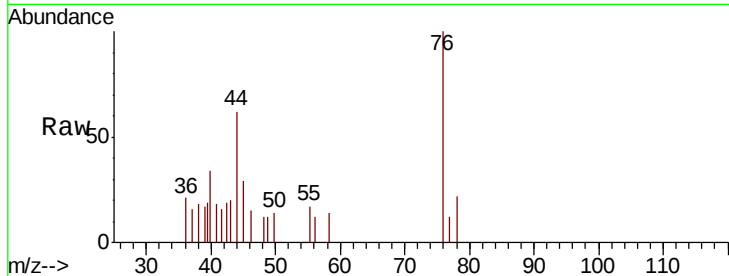
PIT-WATER

Tot Ion: 76 Resp: 798

Ion Ratio Lower Upper

76 100

78 22.4 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

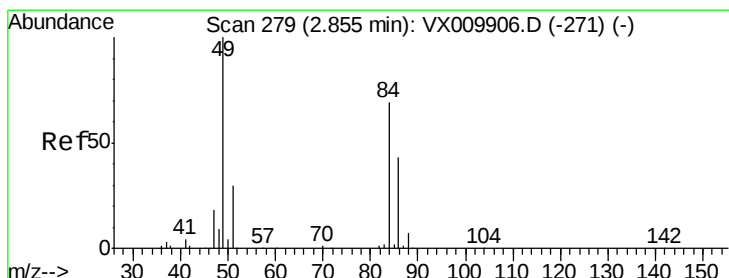
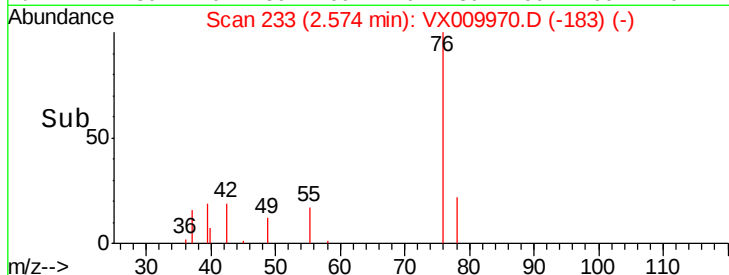
300

200

100

0

Time--> 2.50 2.55 2.60



#20

Methylene Chloride

Concen: 0.270 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009970.D

Acq: 30 May 2019 18:59

Tgt Ion: 84 Resp: 572

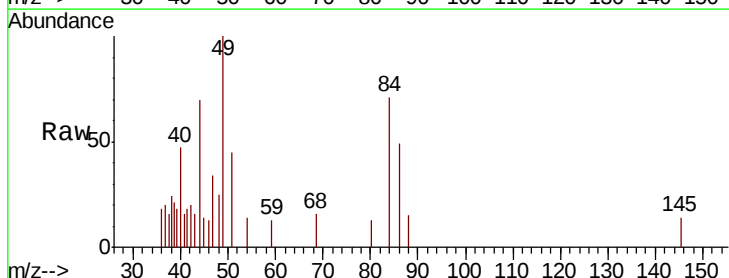
Ion Ratio Lower Upper

84 100

49 119.2 115.8 173.6

51 43.7 34.4 51.6

86 68.9 49.7 74.5



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

600

500

400

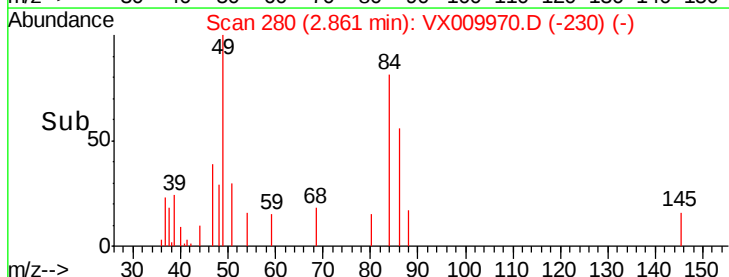
300

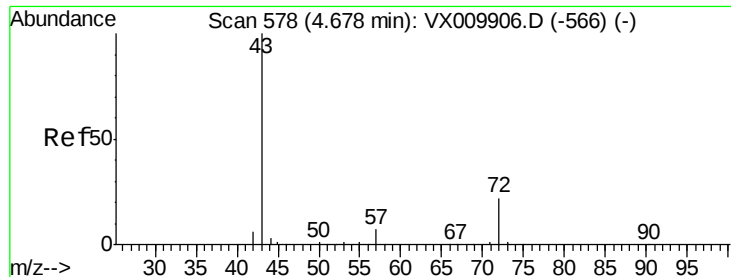
200

100

0

Time--> 2.80 2.85 2.90





#25

2-Butanone

Concen: 0.972 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.01 min

Lab File: VX009970.D

Acq: 30 May 2019 18:59

Instrument :

MSVOA\_X

ClientSampleId :

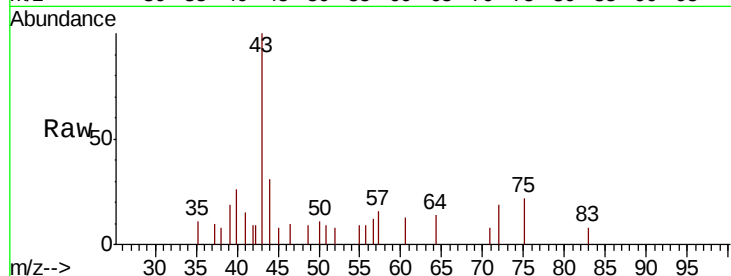
PIT-WATER

Tot Ion: 43 Resp: 2093

Ion Ratio Lower Upper

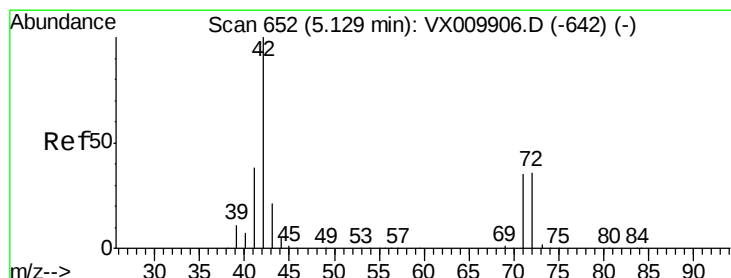
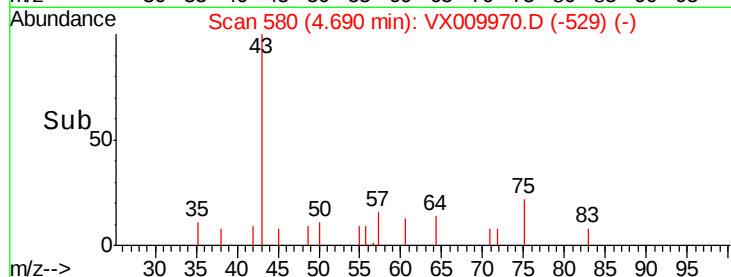
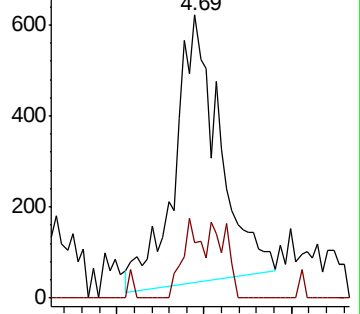
43 100

72 21.5 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 3.135 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX009970.D

Acq: 30 May 2019 18:59

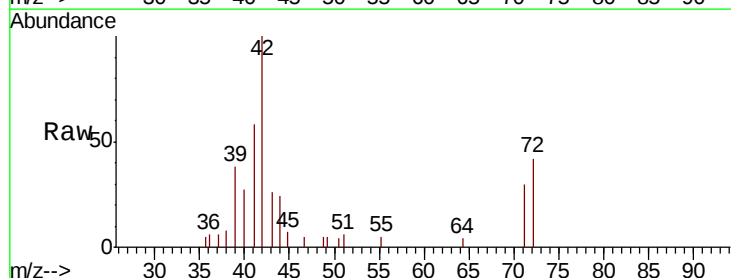
Tgt Ion: 42 Resp: 4327

Ion Ratio Lower Upper

42 100

72 38.2 29.2 43.8

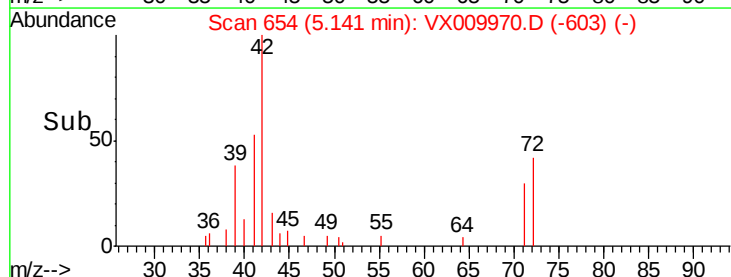
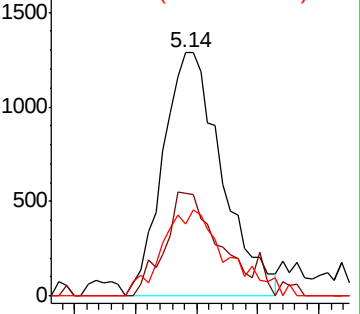
71 38.6 27.6 41.4

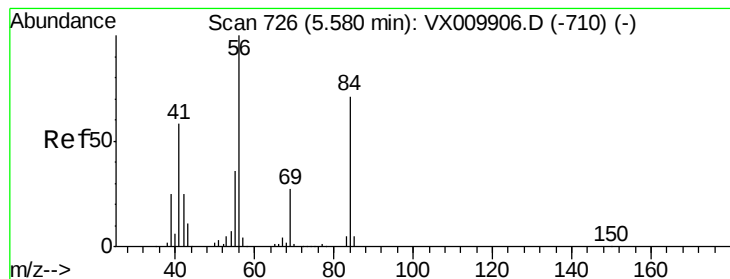


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.143 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009970.D

Acq: 30 May 2019 18:59

Instrument :

MSVOA\_X

ClientSampleId :

PIT-WATER

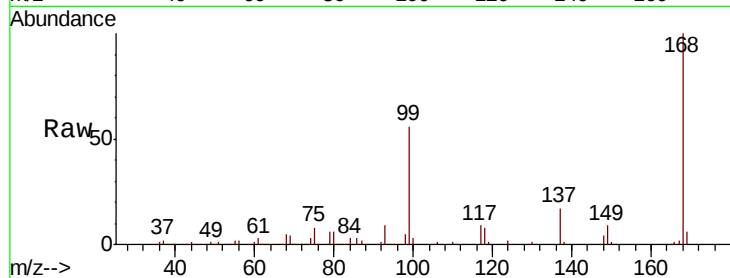
Tot Ion: 56 Resp: 4160

Ion Ratio Lower Upper

56 100

69 181.3 21.6 32.4#

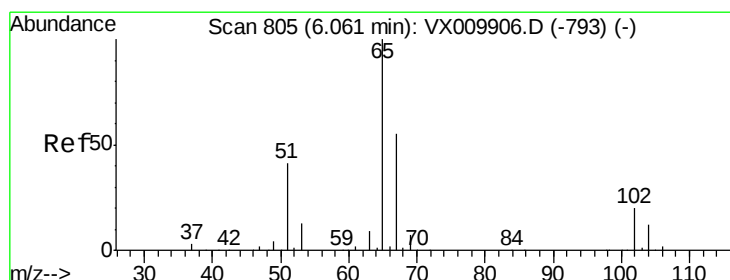
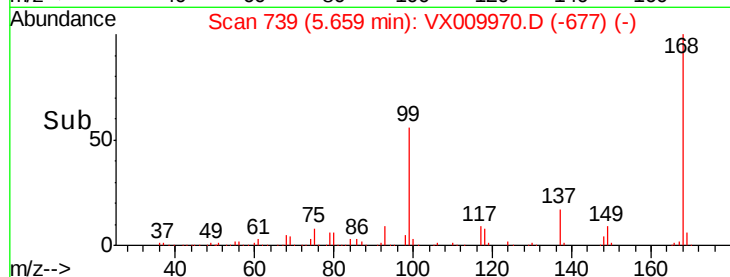
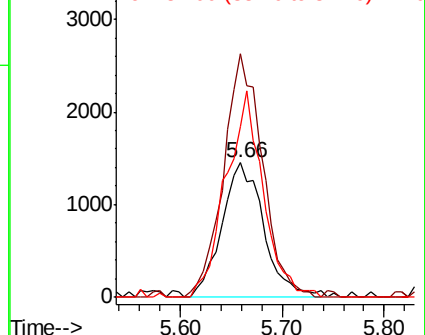
84 127.5 56.8 85.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.089 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009970.D

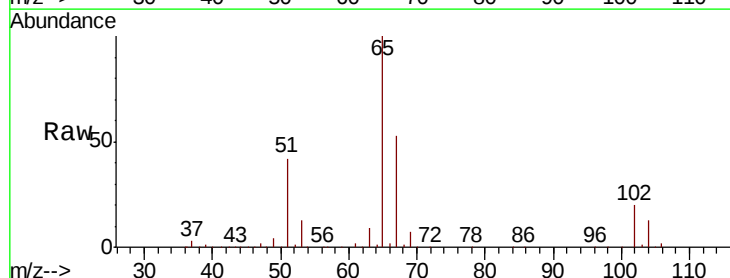
Acq: 30 May 2019 18:59

Tgt Ion: 65 Resp: 117384

Ion Ratio Lower Upper

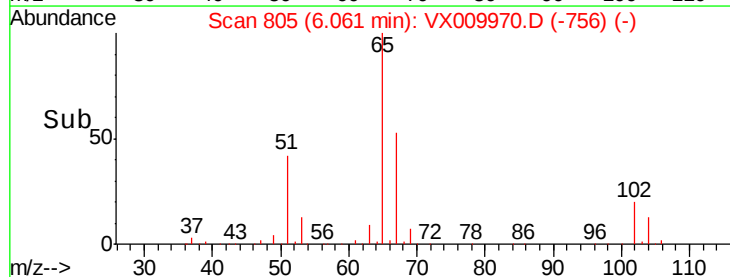
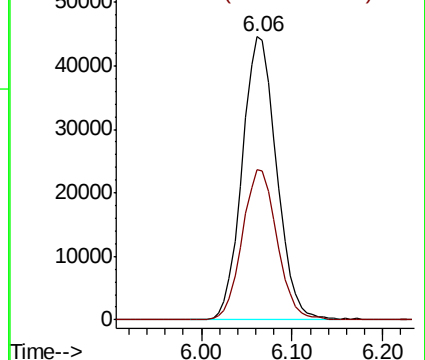
65 100

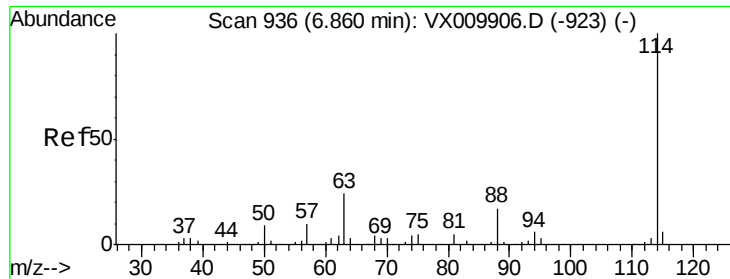
67 53.8 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

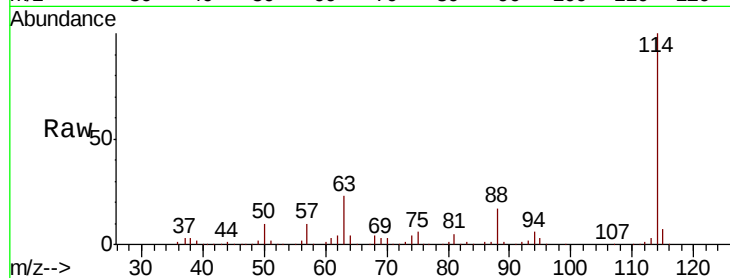




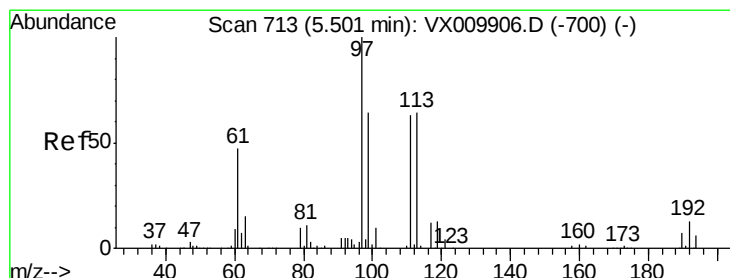
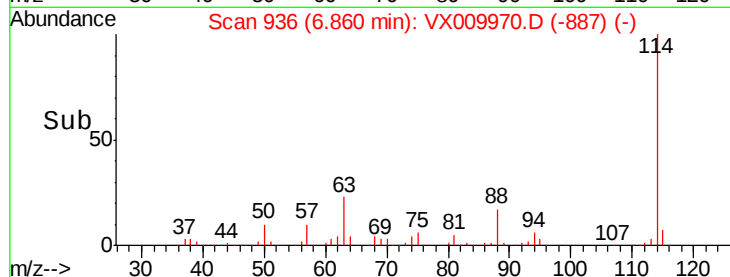
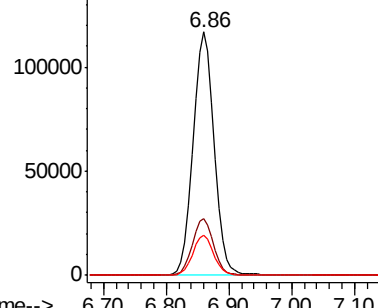
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.86 min Scan# 936  
Delta R.T. -0.00 min  
Lab File: VX009970.D  
Acq: 30 May 2019 18:59

Instrument :  
MSVOA\_X  
ClientSampleId :  
PIT-WATER

Tot Ion:114 Resp: 271986  
Ion Ratio Lower Upper  
114 100  
63 23.2 0.0 47.4  
88 16.6 0.0 33.0

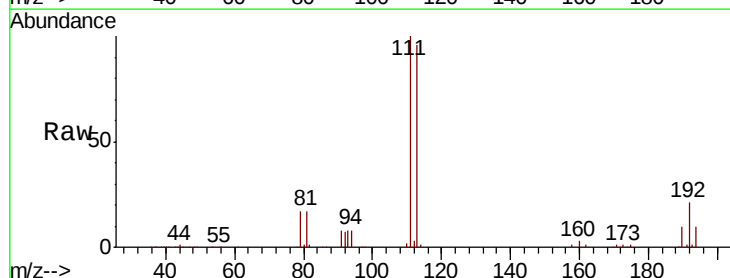


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VX0  
Ion 87.90 (87.60 to 88.60): VX0

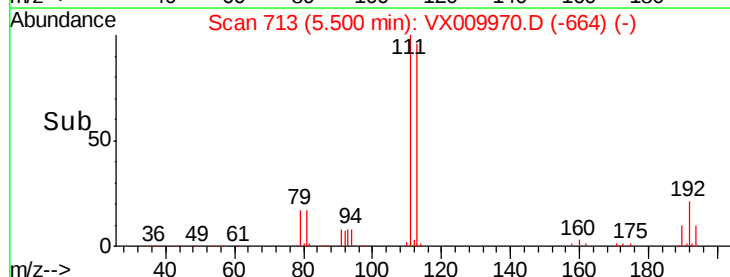
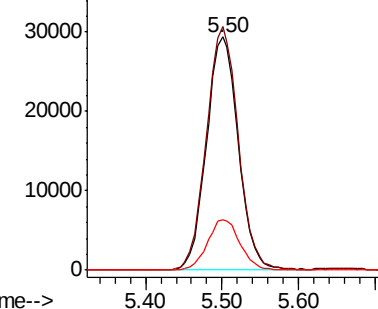


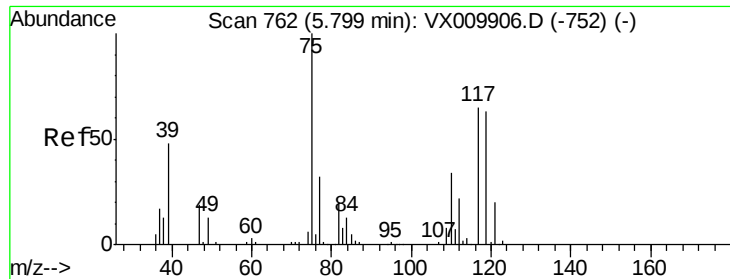
#35  
Dibromofluoromethane  
Concen: 49.509 ug/l  
RT: 5.50 min Scan# 713  
Delta R.T. -0.00 min  
Lab File: VX009970.D  
Acq: 30 May 2019 18:59

Tgt Ion:113 Resp: 84659  
Ion Ratio Lower Upper  
113 100  
111 104.3 82.2 123.2  
192 22.0 17.1 25.7



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

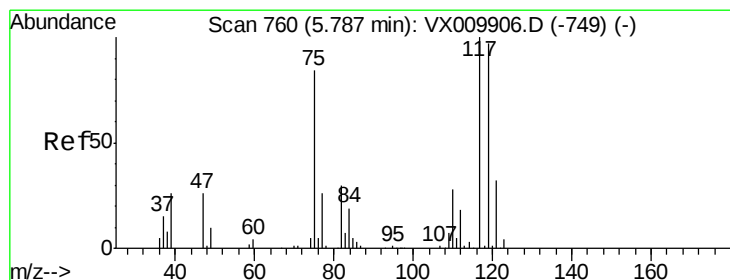
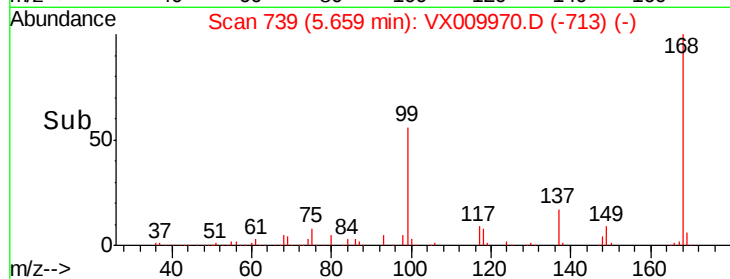
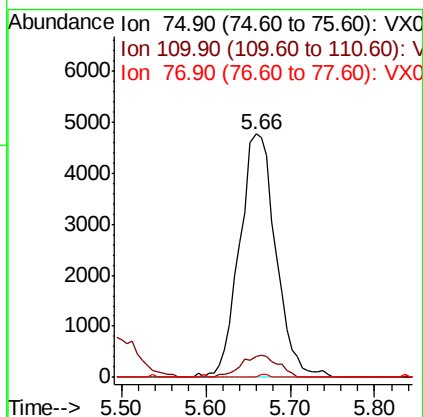
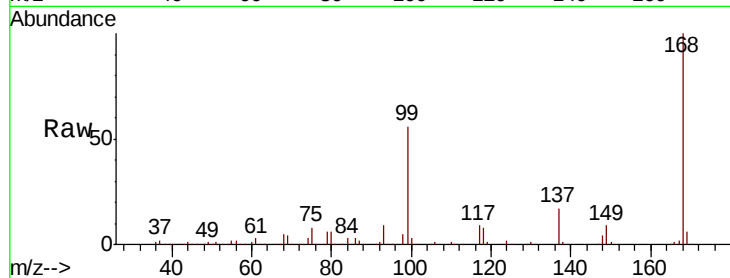




#36  
 1,1-Dichloropropene  
 Concen: 5.028 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX009970.D  
 Acq: 30 May 2019 18:59

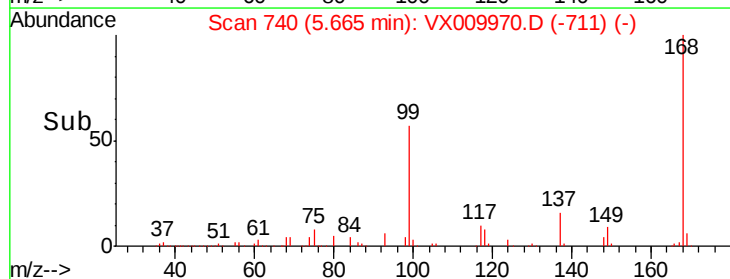
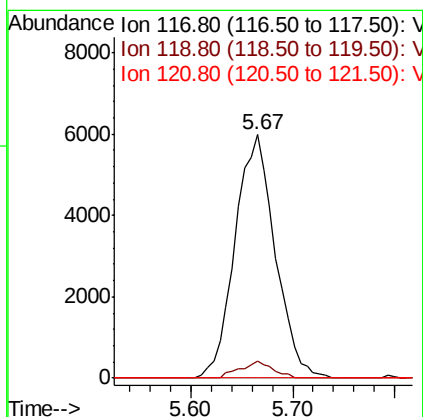
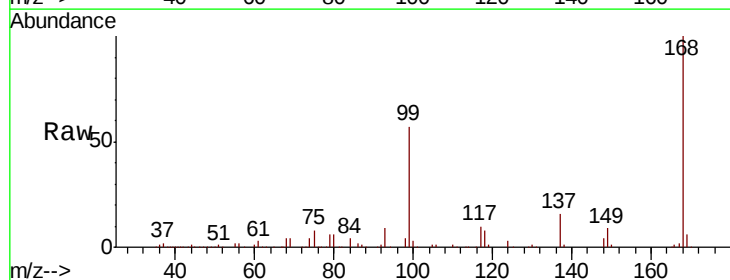
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PIT-WATER

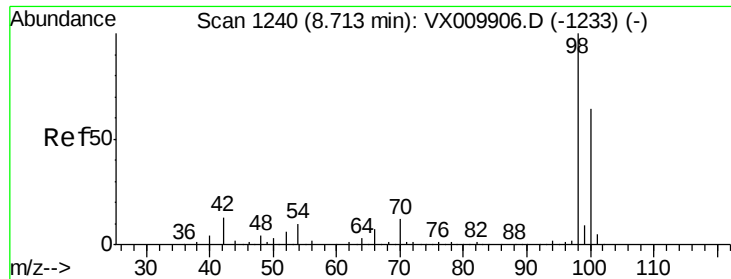
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.3   | 16.7  | 50.1# |
| 77      | 0.3   | 25.0  | 37.4# |



#38  
 Carbon Tetrachloride  
 Concen: 6.849 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.12 min  
 Lab File: VX009970.D  
 Acq: 30 May 2019 18:59

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.7   | 77.3  | 115.9# |
| 121     | 0.0   | 25.4  | 38.0#  |





#50

Toluene-d8

Concen: 49.765 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009970.D

Acq: 30 May 2019 18:59

Instrument :

MSVOA\_X

ClientSampleId :

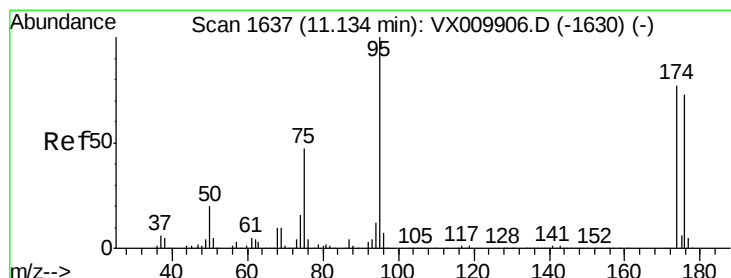
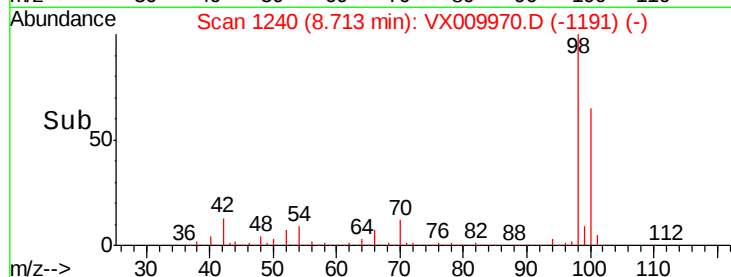
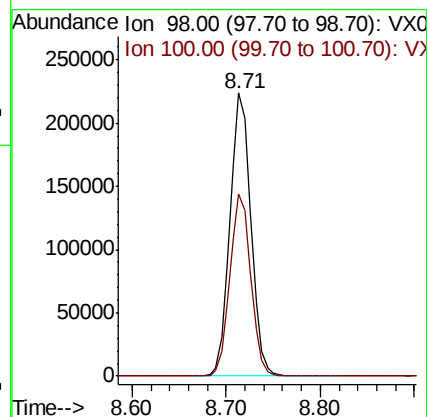
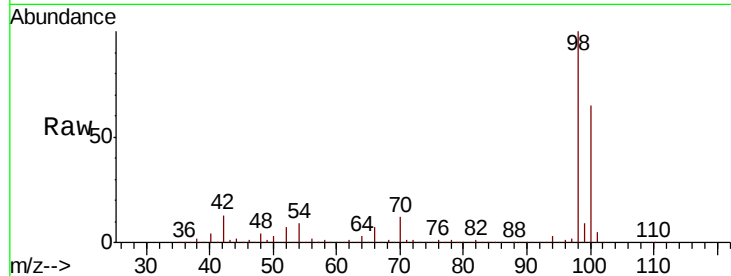
PIT-WATER

Tot Ion: 98 Resp: 345560

Ion Ratio Lower Upper

98 100

100 64.2 51.5 77.3



#62

4-Bromofluorobenzene

Concen: 47.025 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009970.D

Acq: 30 May 2019 18:59

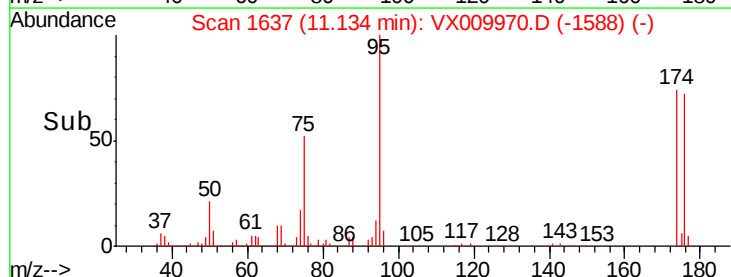
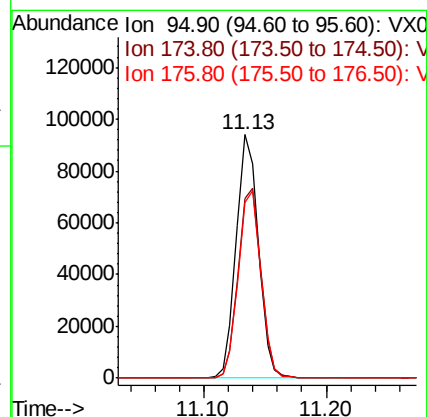
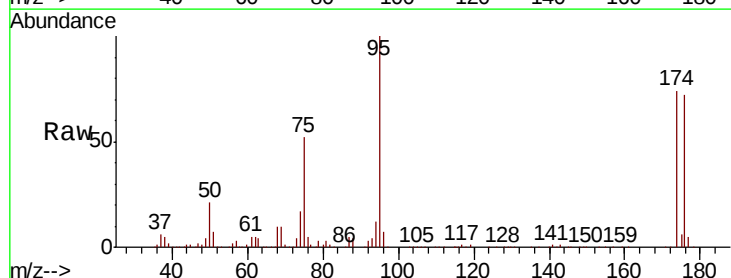
Tgt Ion: 95 Resp: 117285

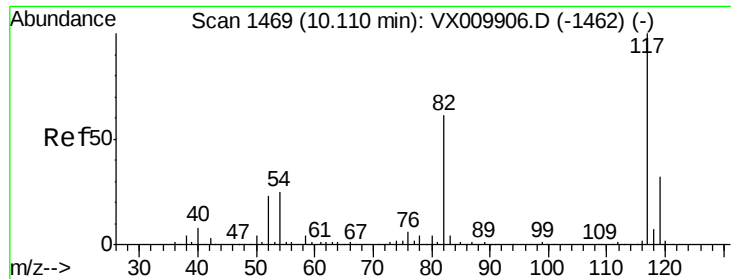
Ion Ratio Lower Upper

95 100

174 80.5 0.0 160.4

176 78.8 0.0 154.6

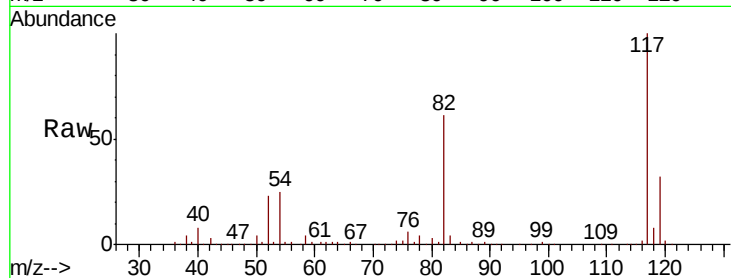




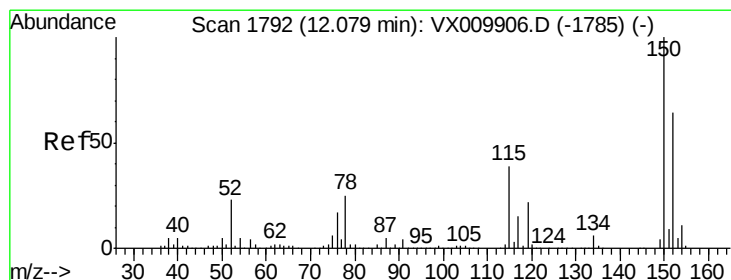
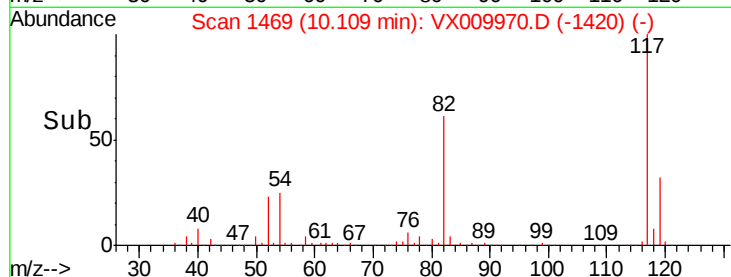
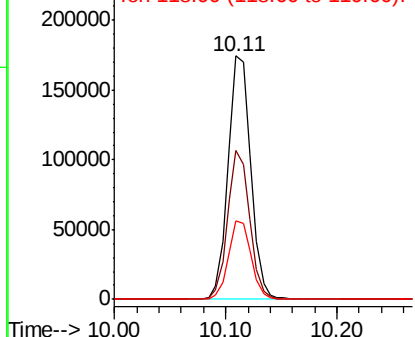
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX009970.D  
Acq: 30 May 2019 18:59

Instrument :  
MSVOA\_X  
ClientSampled :  
PIT-WATER

Tot Ion:117 Resp: 245766  
Ion Ratio Lower Upper  
117 100  
82 61.1 49.2 73.8  
119 32.1 25.2 37.8

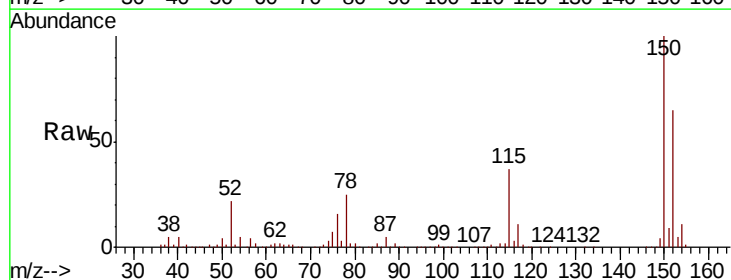


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

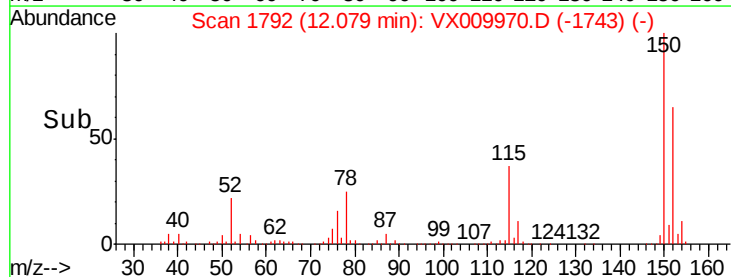
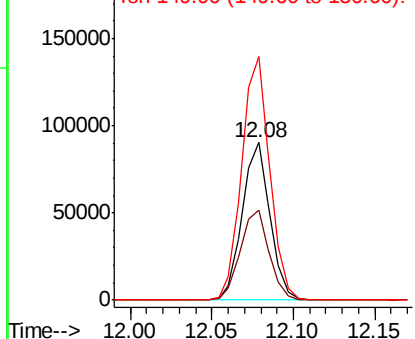


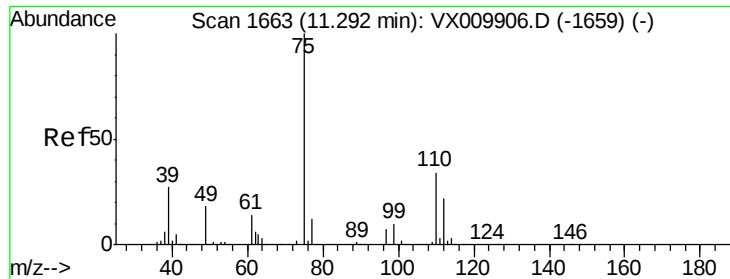
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX009970.D  
Acq: 30 May 2019 18:59

Tgt Ion:152 Resp: 107225  
Ion Ratio Lower Upper  
152 100  
115 58.9 41.4 124.2  
150 157.0 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.531 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009970.D

Acq: 30 May 2019 18:59

Instrument :

MSVOA\_X

ClientSampled :

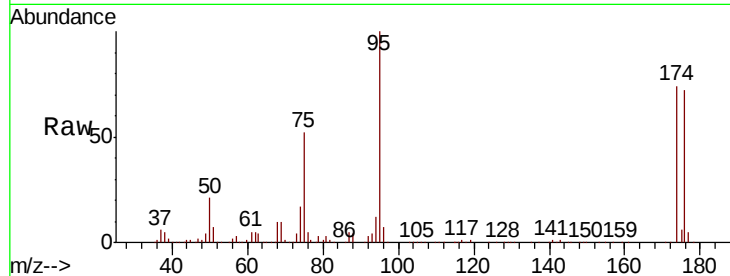
PIT-WATER

Tot Ion: 75 Resp: 60335

Ion Ratio Lower Upper

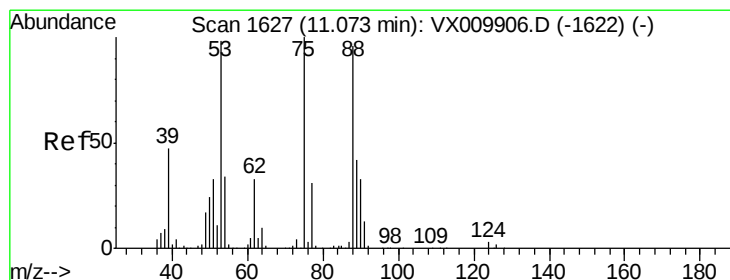
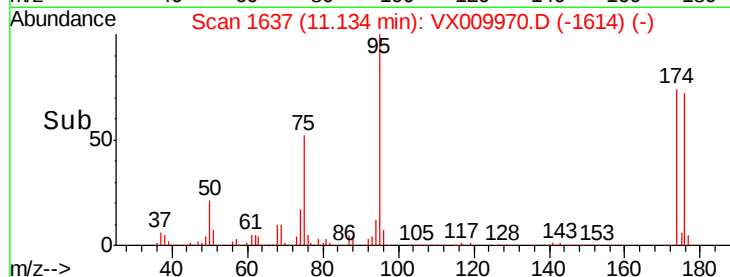
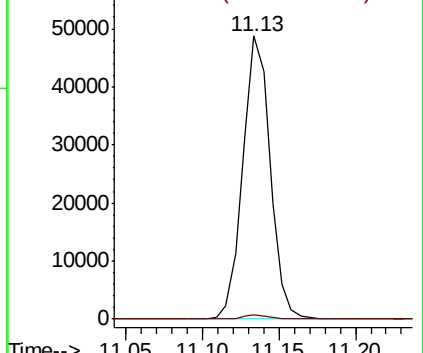
75 100

77 1.6 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 58.219 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009970.D

Acq: 30 May 2019 18:59

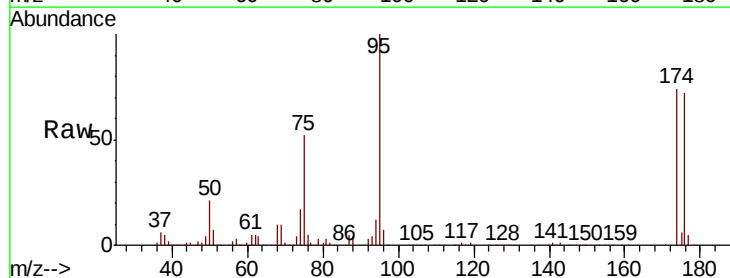
Tgt Ion: 75 Resp: 60335

Ion Ratio Lower Upper

75 100

53 0.3 79.8 119.6#

89 0.0 34.2 51.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

