

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061819\  
 Data File : VX010333.D  
 Acq On : 18 Jun 2019 11:08  
 Operator : JC/SP  
 Sample : VX0618WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 19 01:16:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 02:12:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 327843   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 497190   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 437142   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 197164   | 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   | 160743   | 50.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.46% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 160225   | 52.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.50% |          |
| 50) Toluene-d8              | 8.71  | 98   | 612512   | 53.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.58% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 203510   | 47.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.82%  |          |

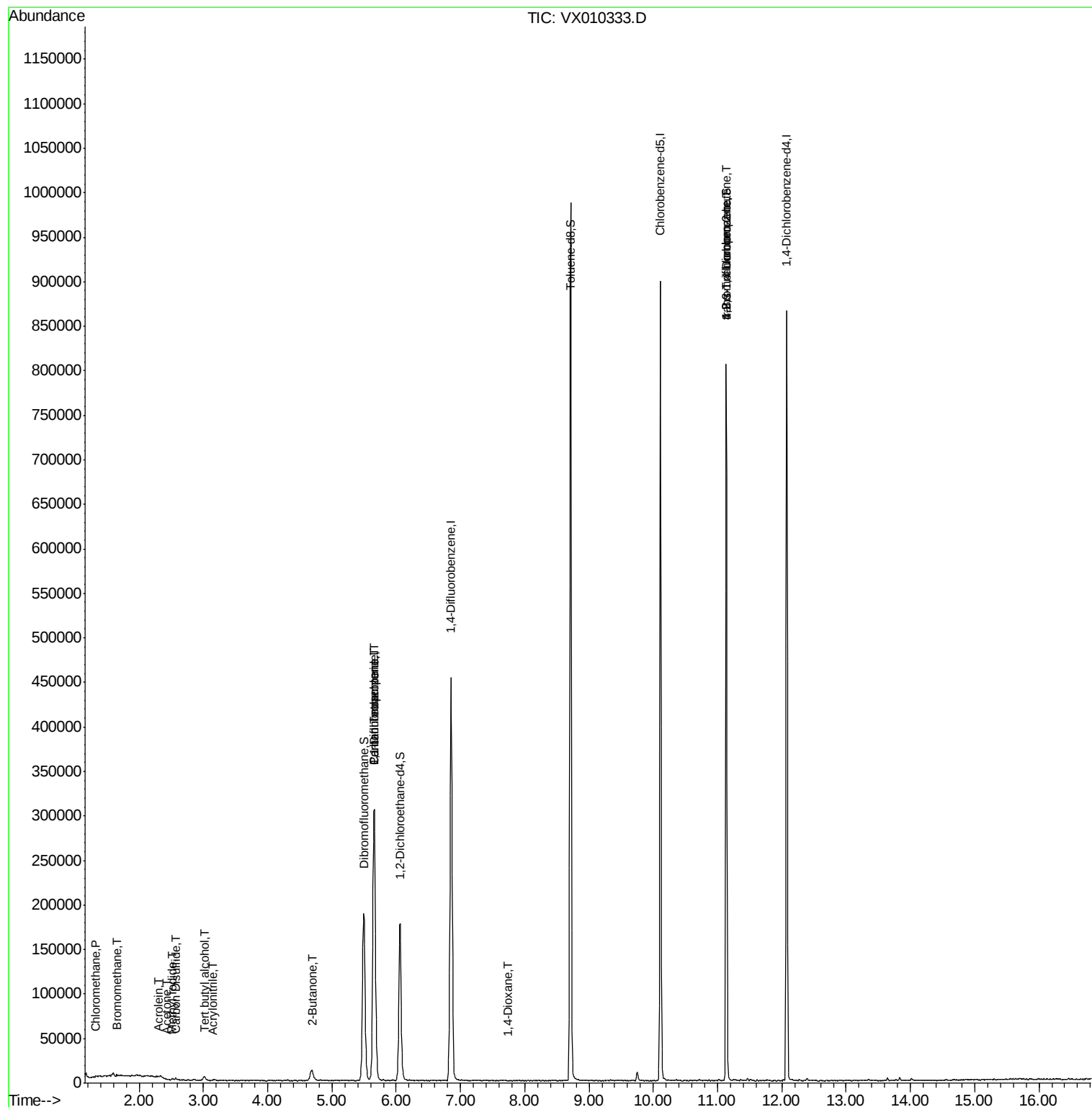
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 679      | 0.227  | ug/l # | 58     |
| 5) Bromomethane                | 1.65  | 94   | 886      | 0.834  | ug/l   | 82     |
| 10) Methyl Iodide              | 2.51  | 142  | 1563     | 0.350  | ug/l   | 98     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 2626     | 3.350  | ug/l # | 81     |
| 13) Acrolein                   | 2.29  | 56   | 317      | 2.218  | ug/l # | 51     |
| 15) Acrylonitrile              | 3.14  | 53   | 660      | 0.412  | ug/l   | 89     |
| 16) Acetone                    | 2.43  | 43   | 596      | 0.396  | ug/l   | 98     |
| 17) Carbon Disulfide           | 2.57  | 76   | 2076     | 0.244  | ug/l # | 93     |
| 25) 2-Butanone                 | 4.69  | 43   | 1380     | 0.616  | ug/l   | 99     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 20040    | 4.940  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 28822    | 6.278  | ug/l # | 17     |
| 49) 1,4-Dioxane                | 7.75  | 88   | 84       | 0.893  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 93610    | 23.737 | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 93610    | 52.445 | ug/l # | 10     |

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

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Quant Time: Jun 19 01:16:03 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X060719W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 08 02:12:13 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.01 min

Lab File: VX010333.D

Acq: 18 Jun 2019 11:08

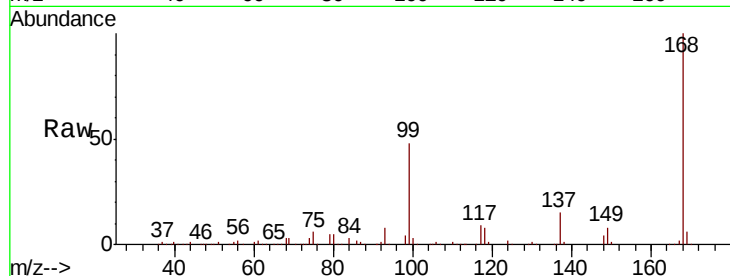
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:168 Resp: 327843

Ion Ratio Lower Upper

168 100

99 47.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

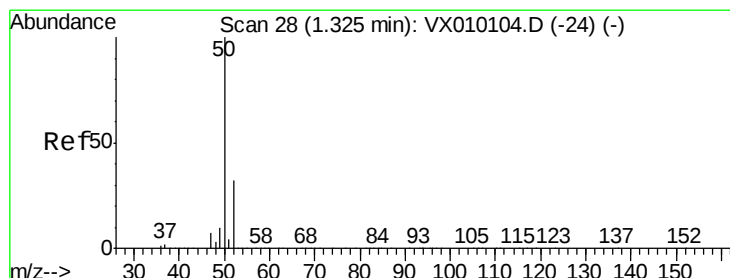
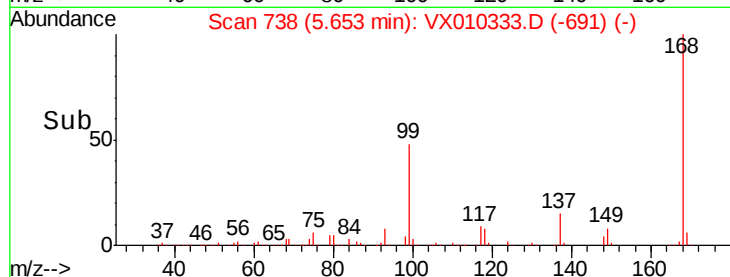
5.65

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.227 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX010333.D

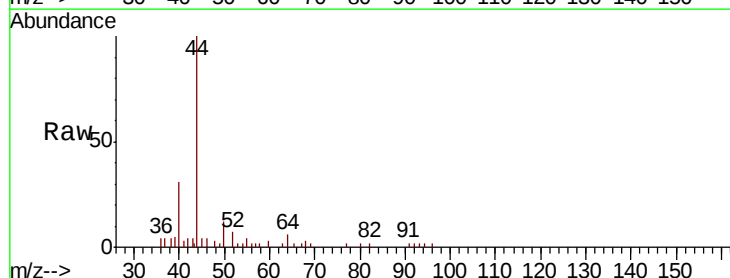
Acq: 18 Jun 2019 11:08

Tgt Ion: 50 Resp: 679

Ion Ratio Lower Upper

50 100

52 56.3 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

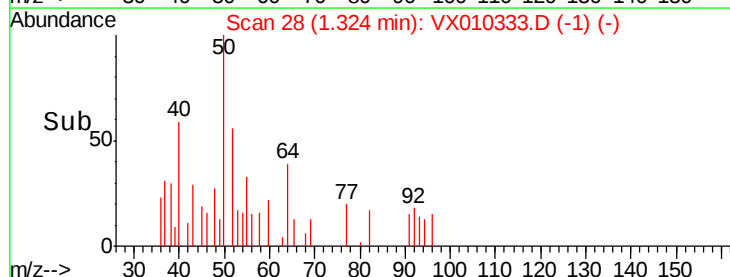
300

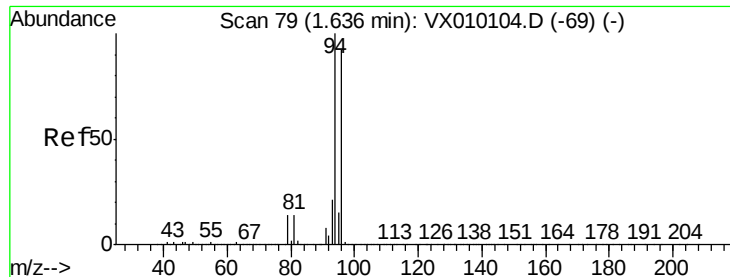
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.834 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010333.D

Acq: 18 Jun 2019 11:08

Instrument :

MSVOA\_X

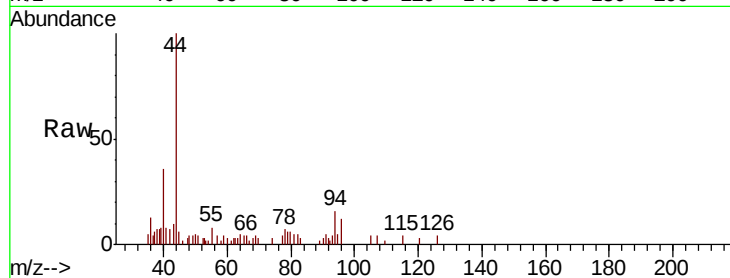
ClientSampled :

Tot Ion: 94 Resp: 886

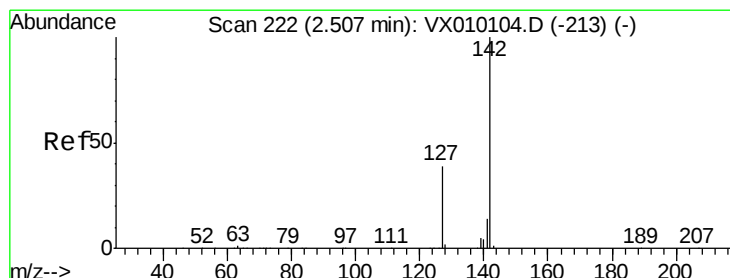
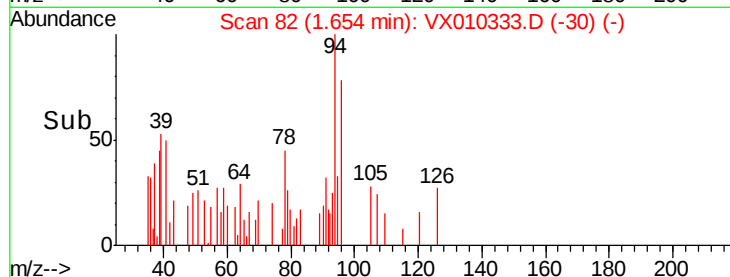
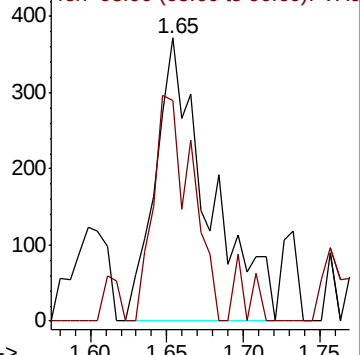
Ion Ratio Lower Upper

94 100

96 78.0 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX010104.D (-69) (-)



#10

Methyl Iodide

Concen: 0.350 ug/l

RT: 2.51 min Scan# 222

Delta R.T. -0.00 min

Lab File: VX010333.D

Acq: 18 Jun 2019 11:08

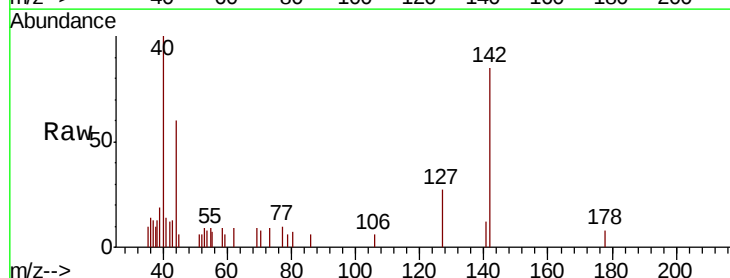
Tgt Ion: 142 Resp: 1563

Ion Ratio Lower Upper

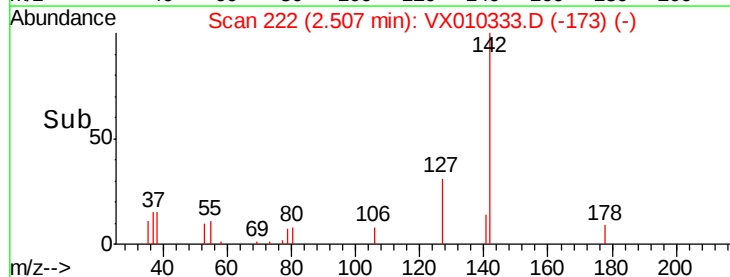
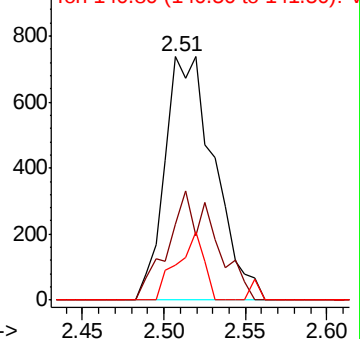
142 100

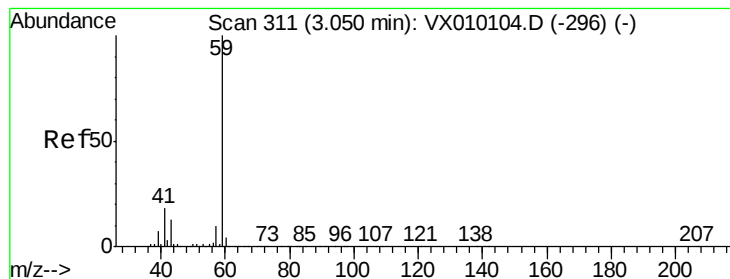
127 42.7 33.0 49.4

141 15.3 11.4 17.0



Abundance Ion 141.80 (141.50 to 142.50): VX010104.D (-213) (-)



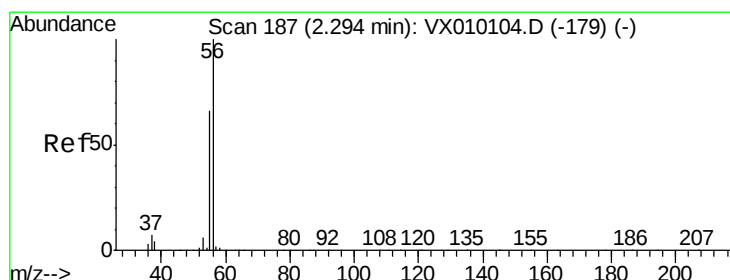
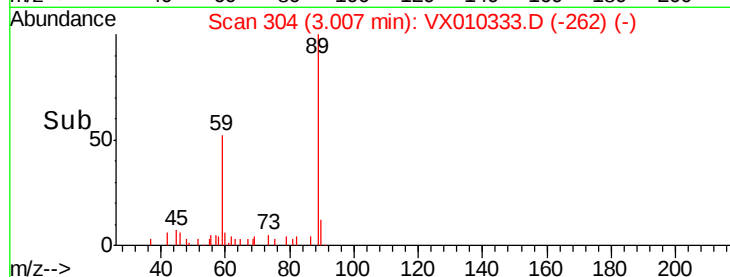
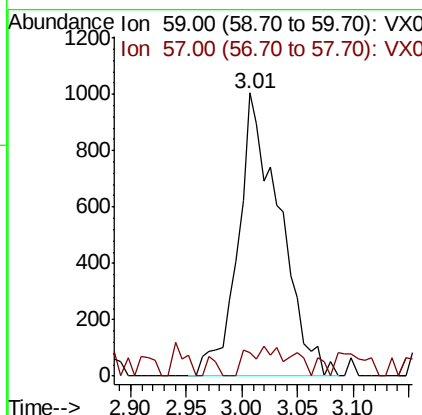
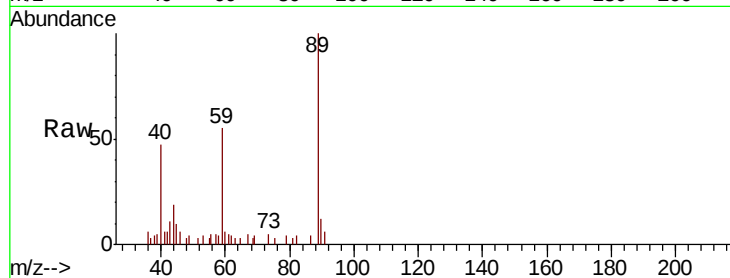


#11

Tert butyl alcohol  
 Concen: 3.350 ug/l  
 RT: 3.01 min Scan# 304  
 Delta R.T. -0.04 min  
 Lab File: VX010333.D  
 Acq: 18 Jun 2019 11:08

Instrument :  
 MSVOA\_X  
 ClientSampled :

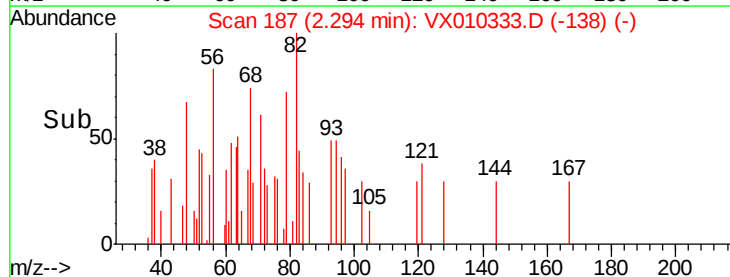
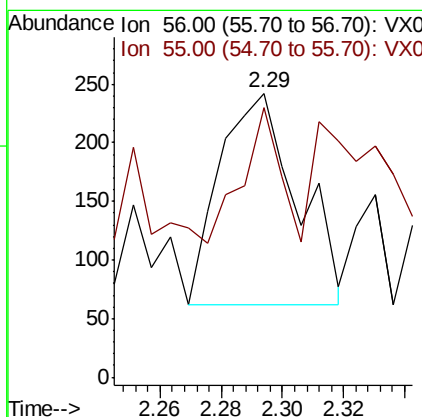
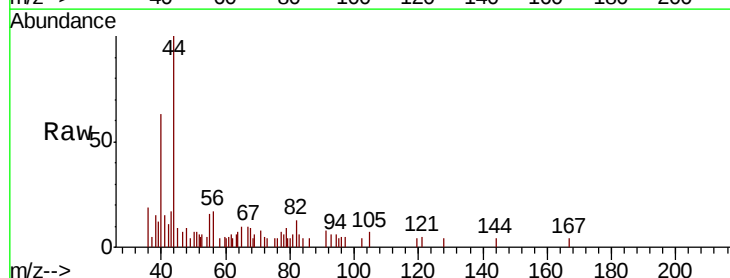
Tot Ion: 59 Resp: 2626  
 Ion Ratio Lower Upper  
 59 100  
 57 3.3 8.2 12.2#

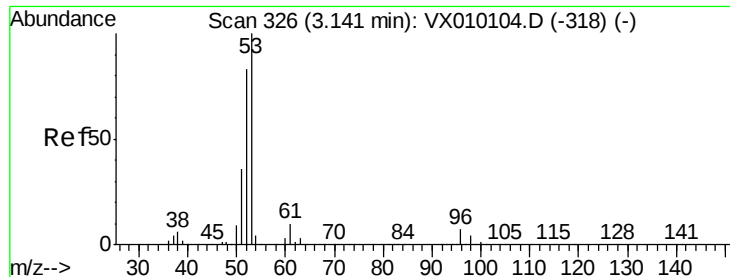


#13

Acrolein  
 Concen: 2.218 ug/l  
 RT: 2.29 min Scan# 187  
 Delta R.T. -0.00 min  
 Lab File: VX010333.D  
 Acq: 18 Jun 2019 11:08

Tgt Ion: 56 Resp: 317  
 Ion Ratio Lower Upper  
 56 100  
 55 30.6 57.0 85.4#





#15

Acrylonitrile

Concen: 0.412 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX010333.D

Acq: 18 Jun 2019 11:08

Instrument :

MSVOA\_X

ClientSampleId :

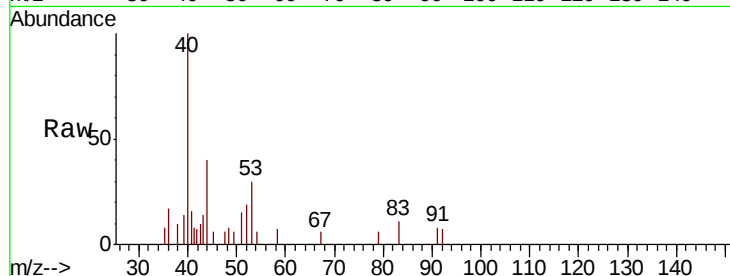
Tot Ion: 53 Resp: 660

Ion Ratio Lower Upper

53 100

52 94.4 66.7 100.1

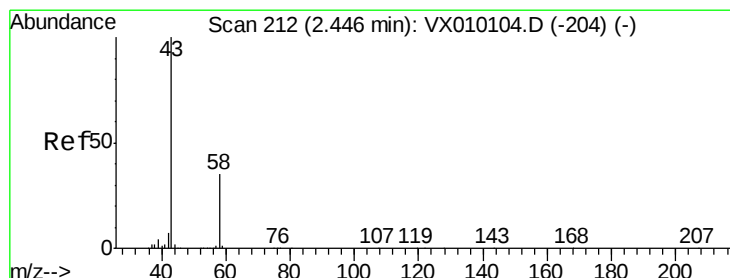
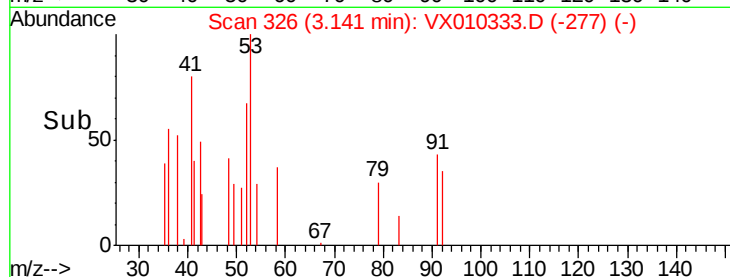
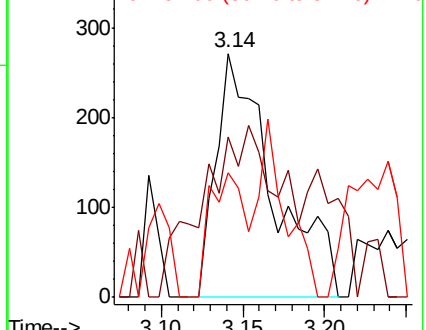
51 31.2 28.8 43.2



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.396 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.01 min

Lab File: VX010333.D

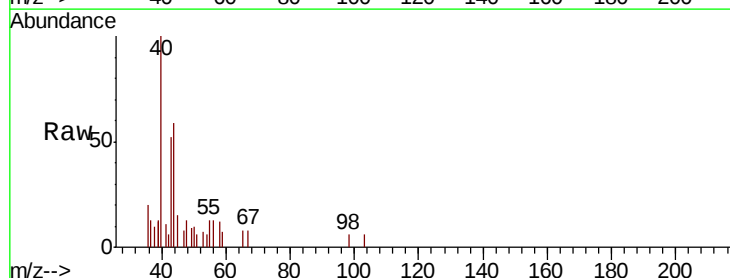
Acq: 18 Jun 2019 11:08

Tgt Ion: 43 Resp: 596

Ion Ratio Lower Upper

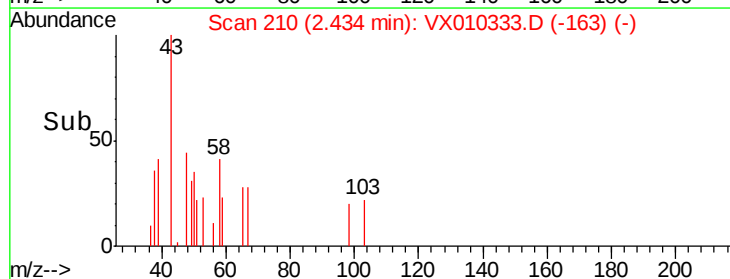
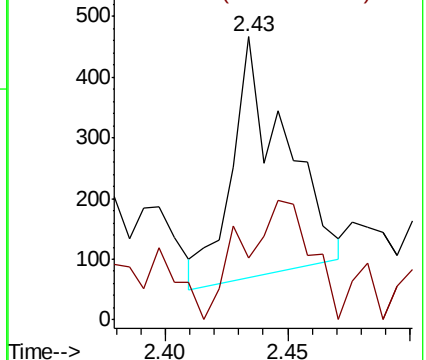
43 100

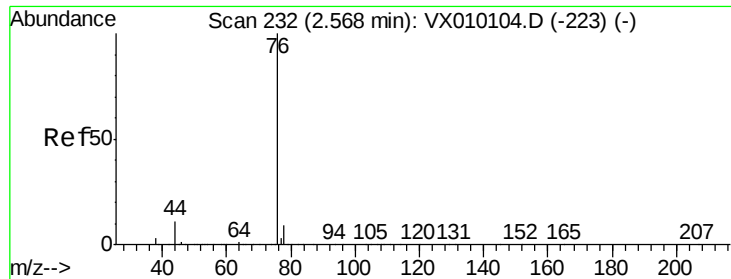
58 28.1 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

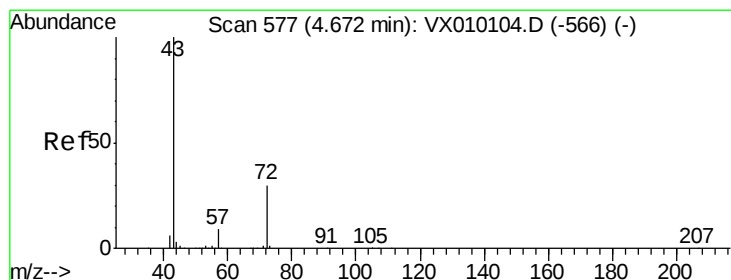
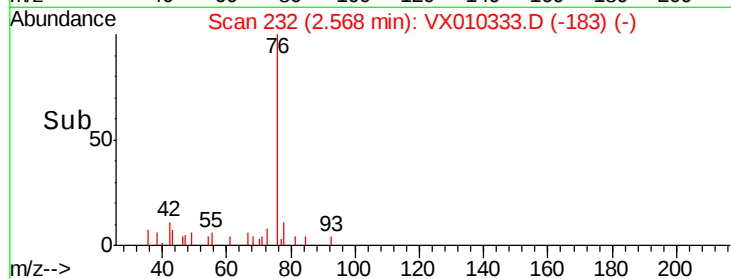
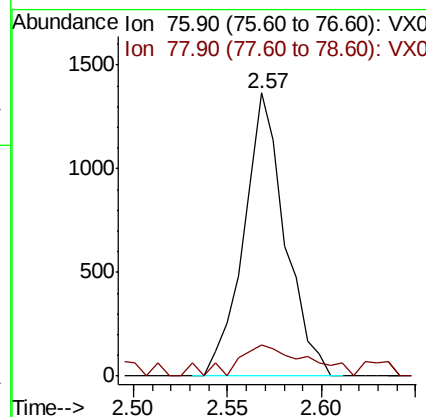
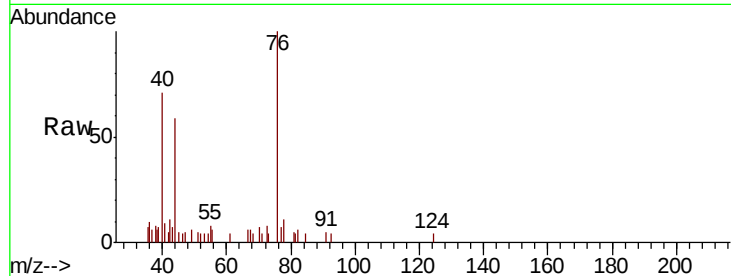




#17  
Carbon Disulfide  
Concen: 0.244 ug/l  
RT: 2.57 min Scan# 232  
Delta R.T. -0.00 min  
Lab File: VX010333.D  
Acq: 18 Jun 2019 11:08

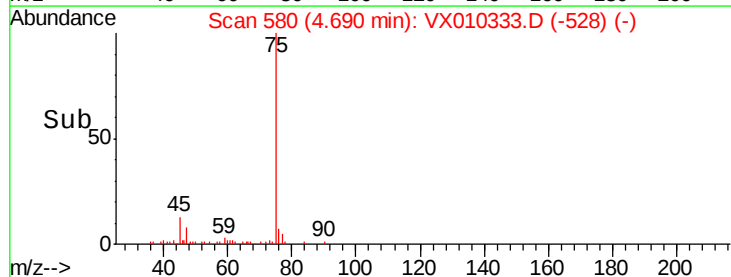
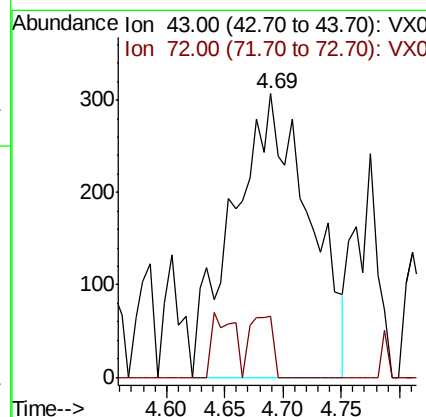
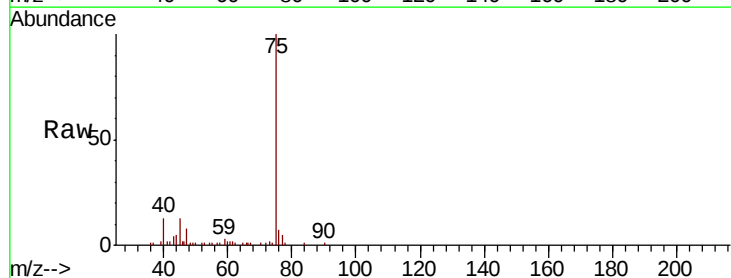
Instrument :  
MSVOA\_X  
ClientSampleId :

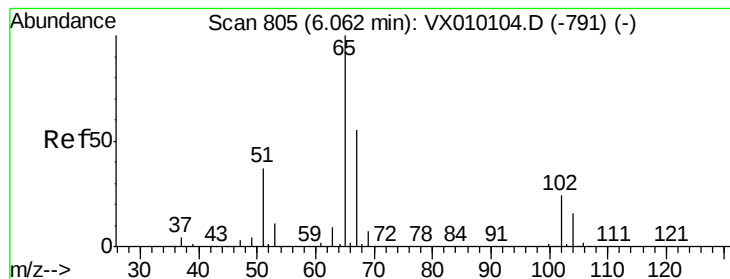
Tot Ion: 76 Resp: 2076  
Ion Ratio Lower Upper  
76 100  
78 6.3 7.0 10.6#



#25  
2-Butanone  
Concen: 0.616 ug/l  
RT: 4.69 min Scan# 580  
Delta R.T. 0.02 min  
Lab File: VX010333.D  
Acq: 18 Jun 2019 11:08

Tgt Ion: 43 Resp: 1380  
Ion Ratio Lower Upper  
43 100  
72 21.5 17.5 26.3





#33

1,2-Dichloroethane-d4

Concen: 50.230 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX010333.D

Acq: 18 Jun 2019 11:08

Instrument :

MSVOA\_X

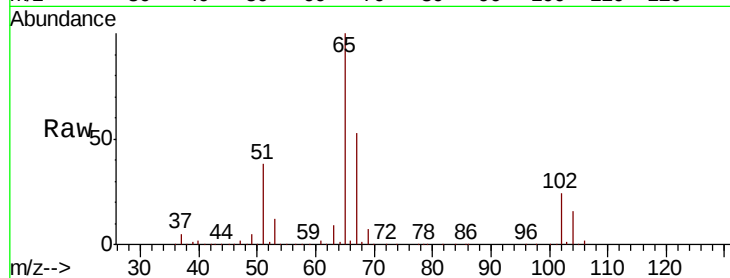
ClientSampleId :

Tot Ion: 65 Resp: 160743

Ion Ratio Lower Upper

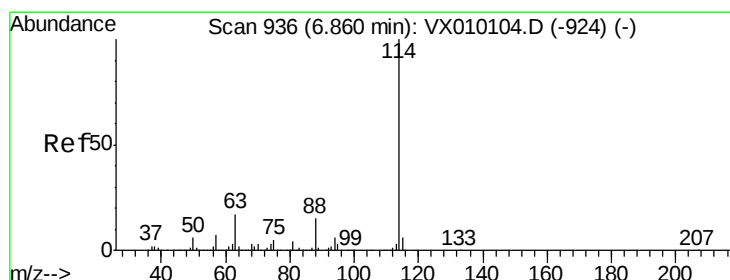
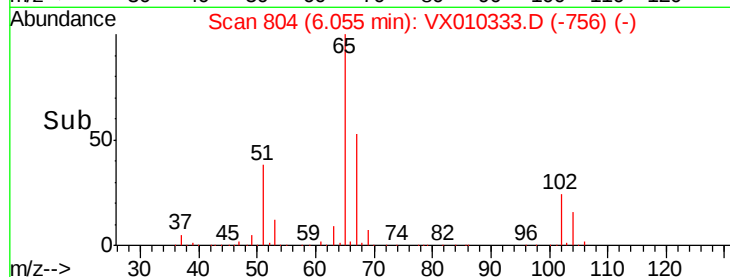
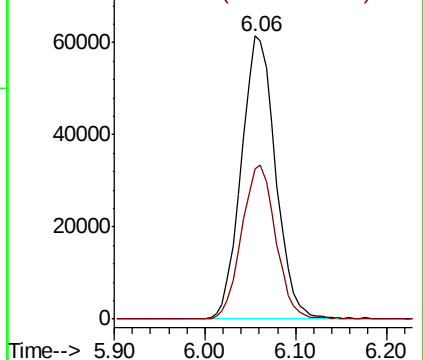
65 100

67 54.2 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: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX010333.D

Acq: 18 Jun 2019 11:08

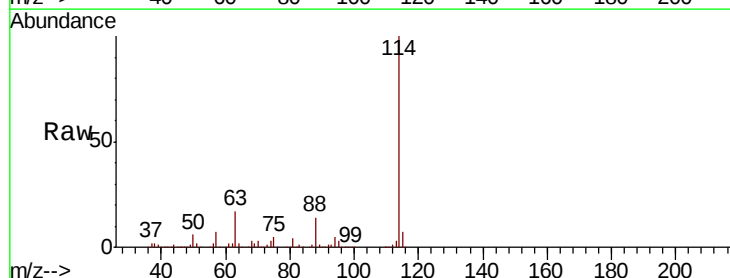
Tgt Ion: 114 Resp: 497190

Ion Ratio Lower Upper

114 100

63 16.9 0.0 47.4

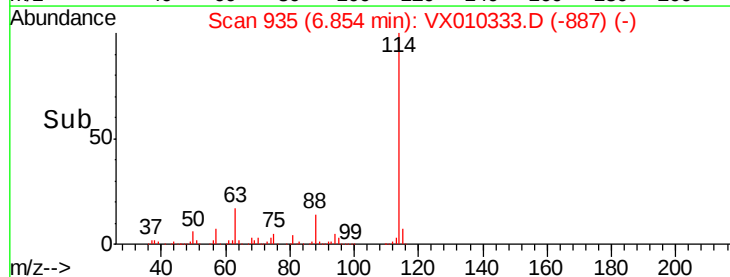
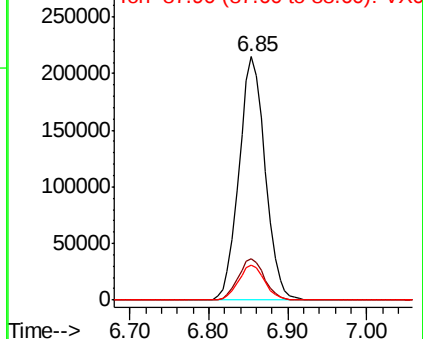
88 14.4 0.0 33.0

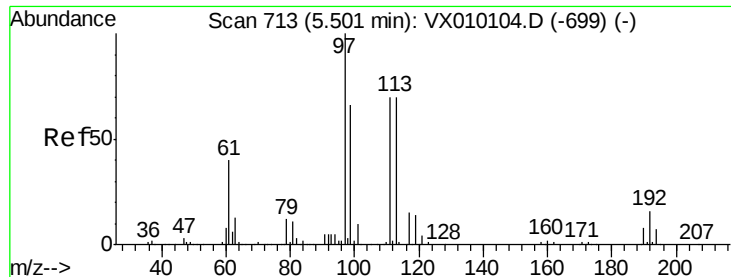


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 52.245 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX010333.D

Acq: 18 Jun 2019 11:08

Instrument :

MSVOA\_X

ClientSampleId :

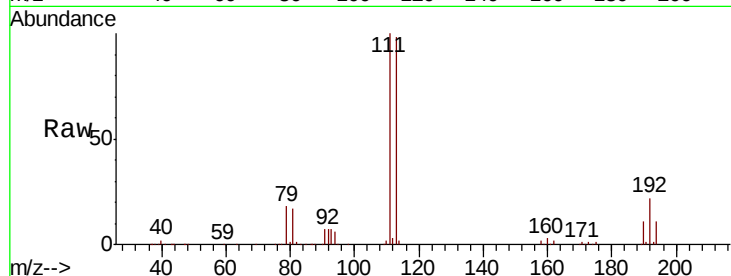
Tot Ion:113 Resp: 160225

Ion Ratio Lower Upper

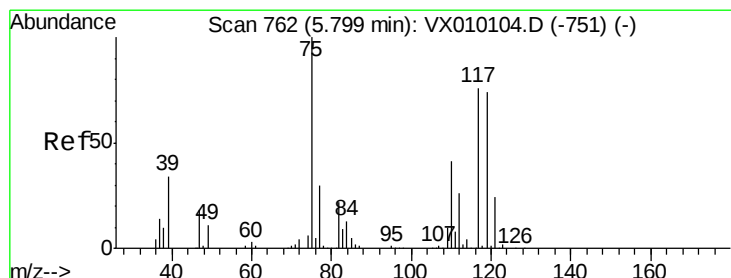
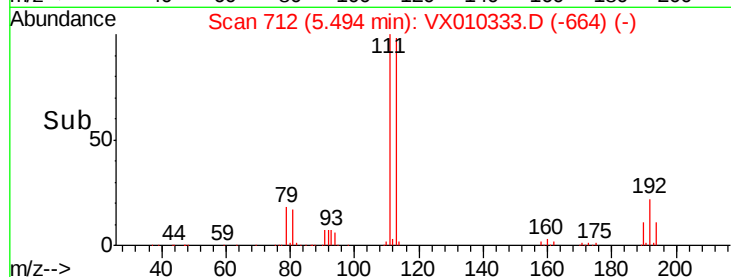
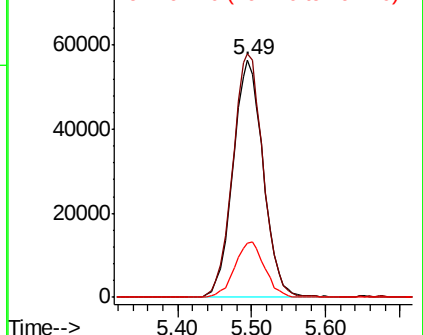
113 100

111 103.3 82.2 123.2

192 23.2 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: 4.940 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX010333.D

Acq: 18 Jun 2019 11:08

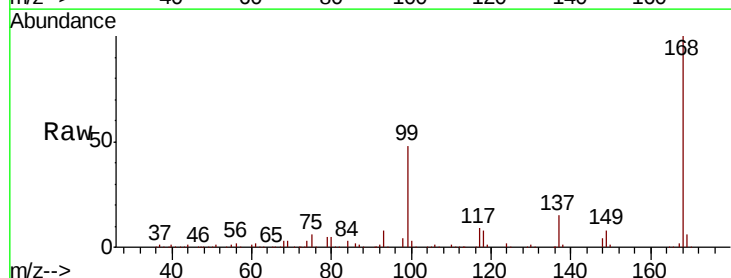
Tgt Ion: 75 Resp: 20040

Ion Ratio Lower Upper

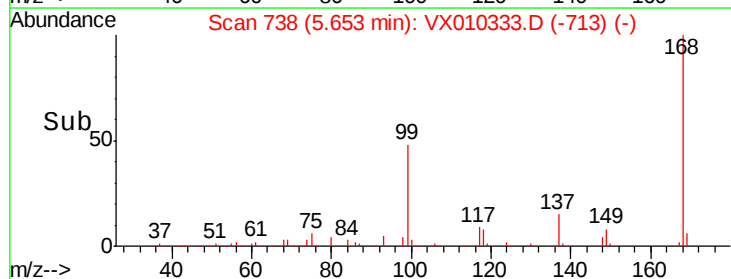
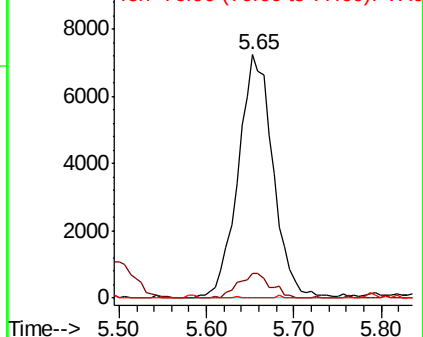
75 100

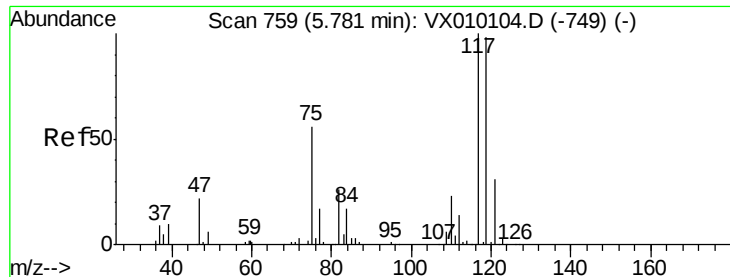
110 9.4 16.7 50.1#

77 0.1 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.278 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX010333.D

Acq: 18 Jun 2019 11:08

Instrument :

MSVOA\_X

ClientSampled :

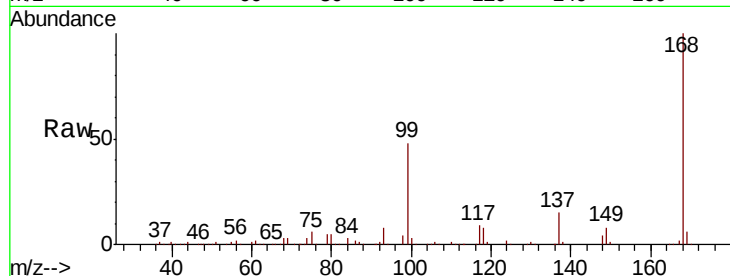
Tot Ion:117 Resp: 28822

Ion Ratio Lower Upper

117 100

119 6.5 77.3 115.9#

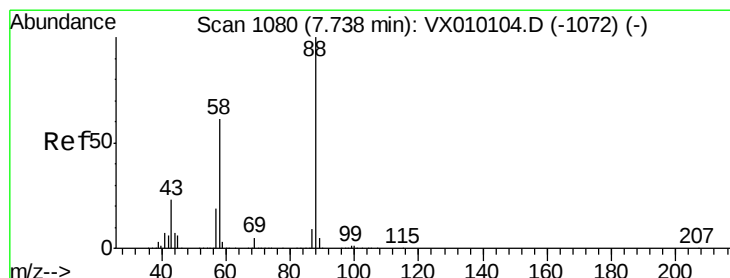
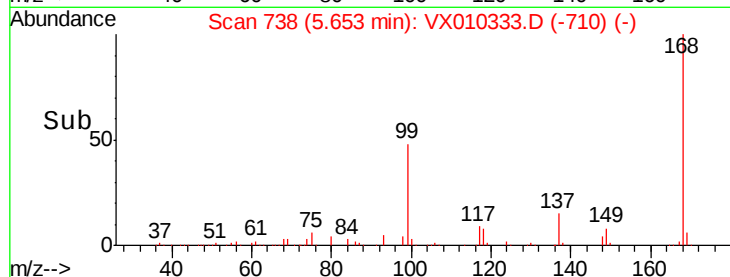
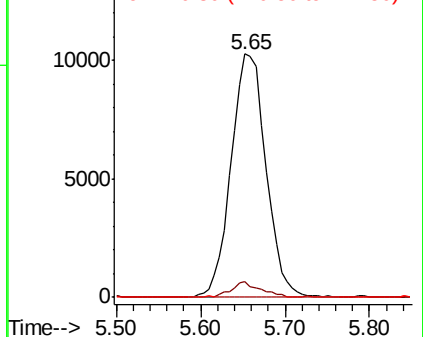
121 0.0 25.4 38.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.893 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX010333.D

Acq: 18 Jun 2019 11:08

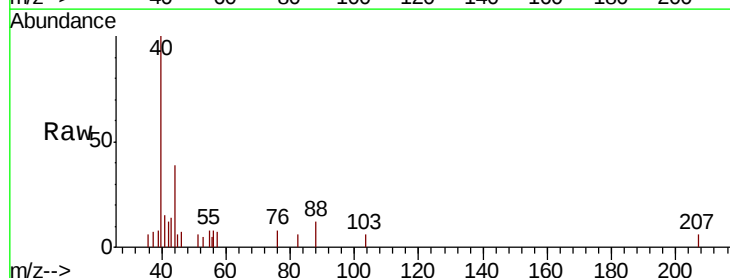
Tgt Ion: 88 Resp: 84

Ion Ratio Lower Upper

88 100

43 261.9 30.2 45.4#

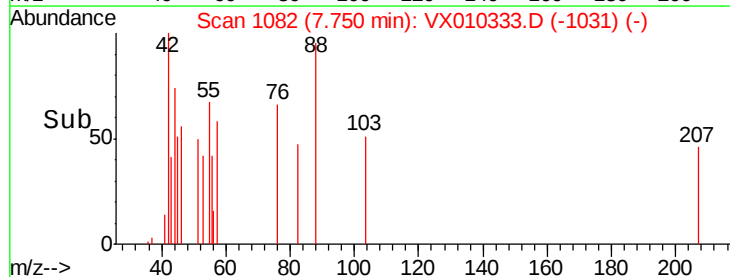
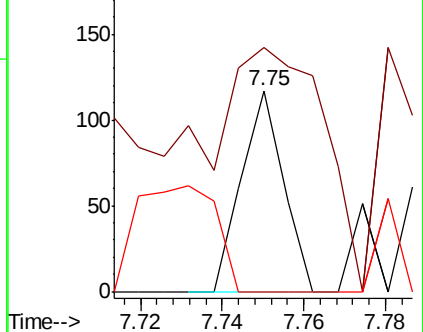
58 100.0 64.0 96.0#

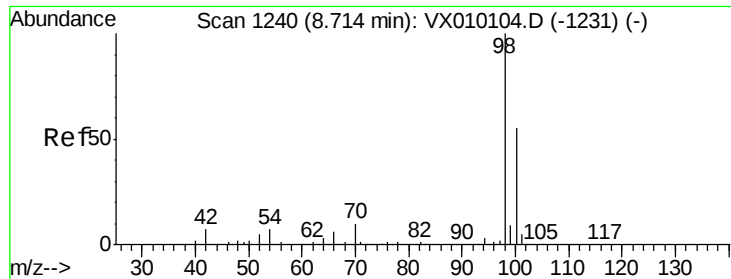


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

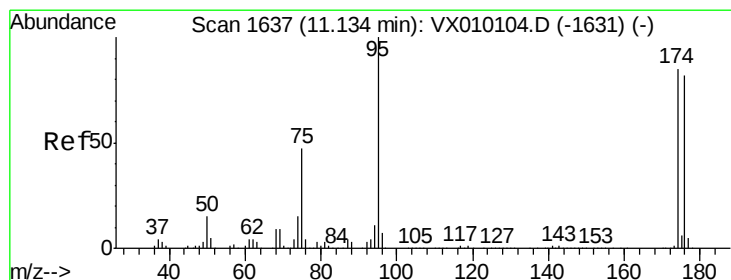
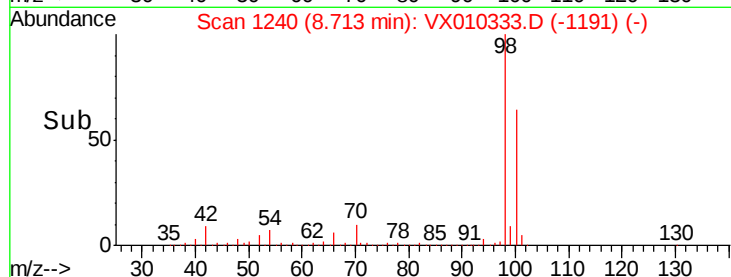
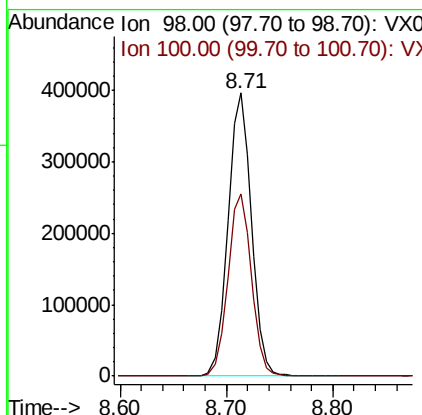
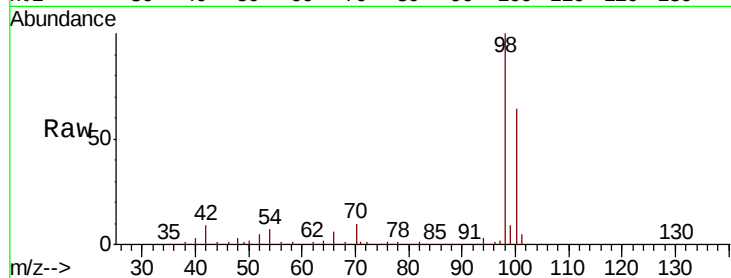




#50  
Toluene-d8  
Concen: 53.291 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX010333.D  
Acq: 18 Jun 2019 11:08

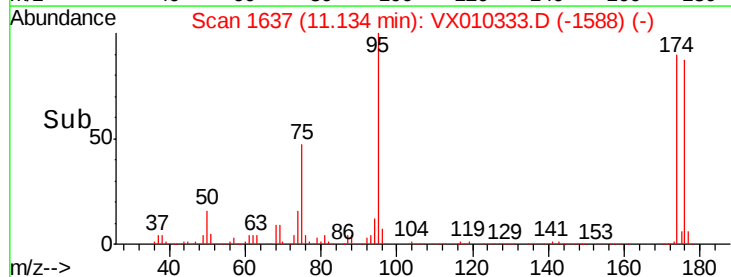
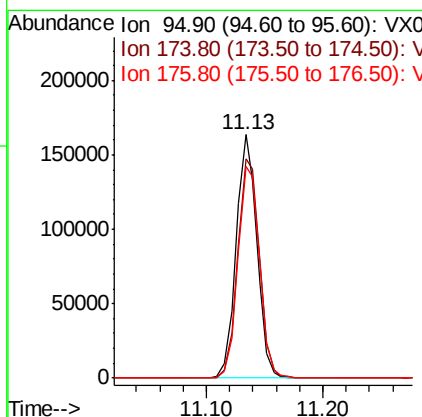
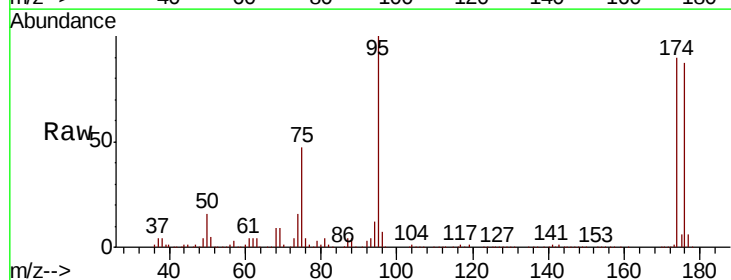
Instrument :  
MSVOA\_X  
ClientSampleId :

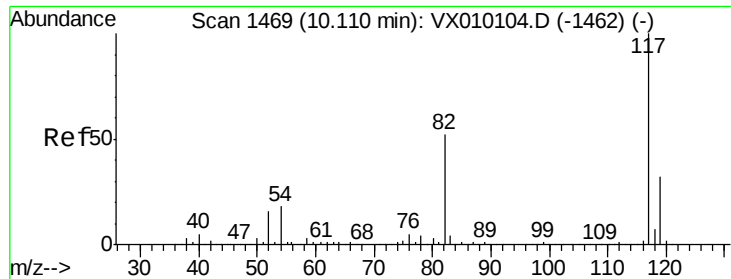
Tot Ion: 98 Resp: 612512  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.5 77.3



#62  
4-Bromofluorobenzene  
Concen: 47.411 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX010333.D  
Acq: 18 Jun 2019 11:08

Tgt Ion: 95 Resp: 203510  
Ion Ratio Lower Upper  
95 100  
174 94.2 0.0 160.4  
176 90.8 0.0 154.6

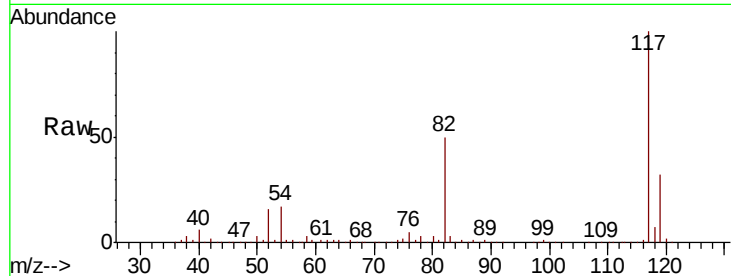




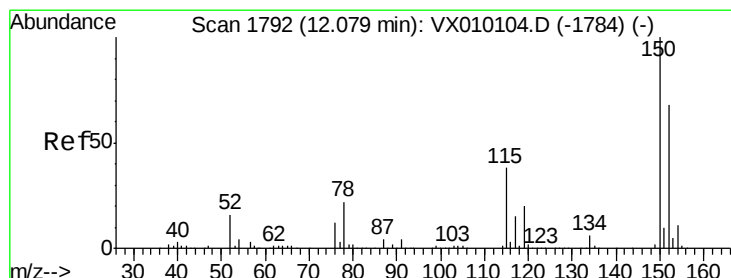
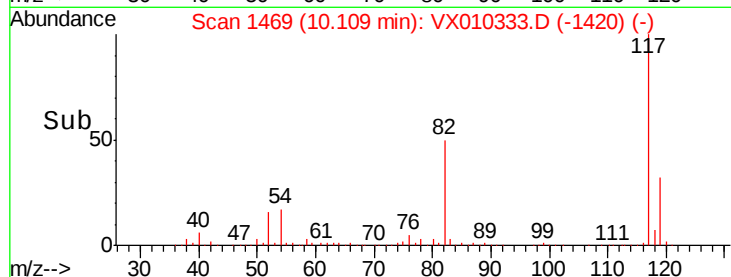
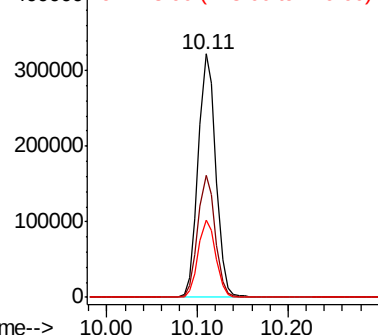
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX010333.D  
Acq: 18 Jun 2019 11:08

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:117 Resp: 437142  
Ion Ratio Lower Upper  
117 100  
82 50.0 49.2 73.8  
119 31.9 25.2 37.8

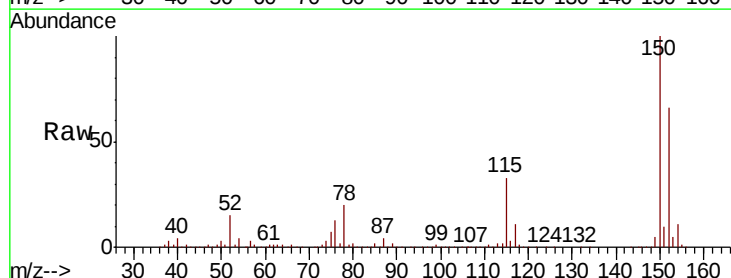


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

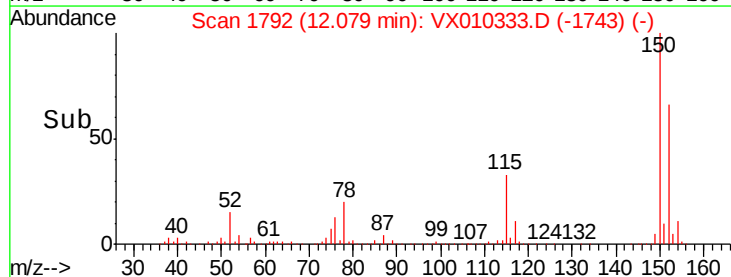
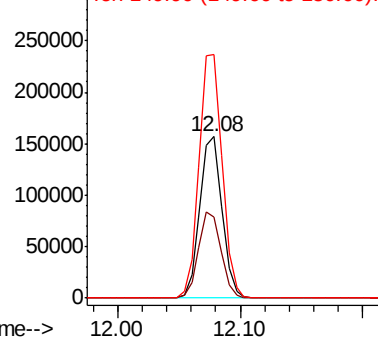


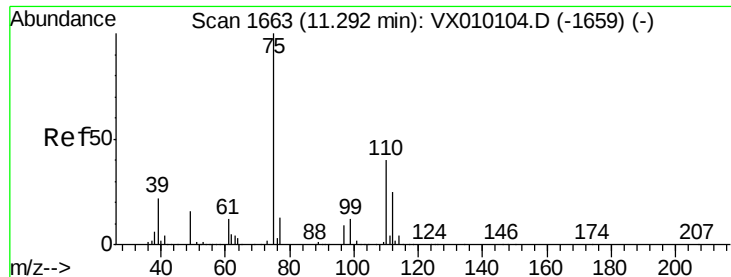
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX010333.D  
Acq: 18 Jun 2019 11:08

Tgt Ion:152 Resp: 197164  
Ion Ratio Lower Upper  
152 100  
115 53.9 41.4 124.2  
150 156.2 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: 23.737 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010333.D

Acq: 18 Jun 2019 11:08

Instrument :

MSVOA\_X

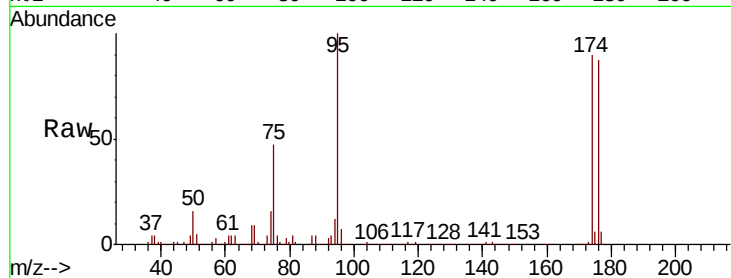
ClientSampleId :

Tot Ion: 75 Resp: 93610

Ion Ratio Lower Upper

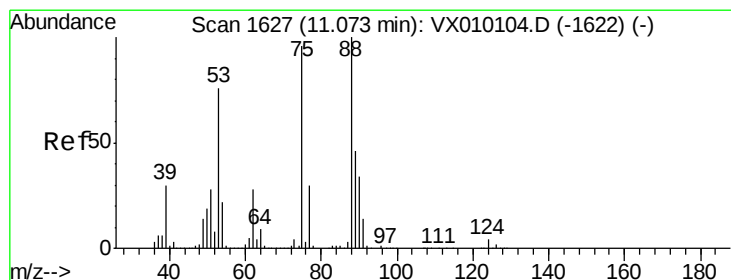
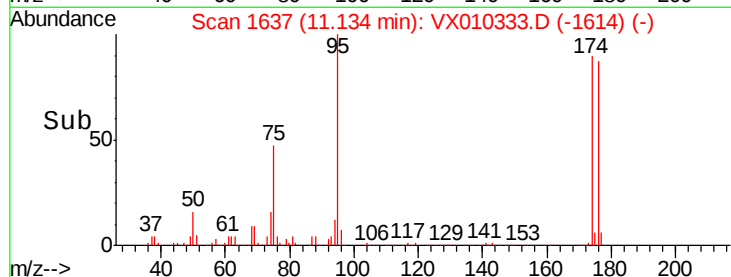
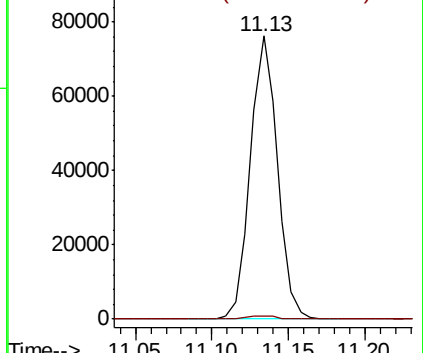
75 100

77 1.2 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: 52.445 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010333.D

Acq: 18 Jun 2019 11:08

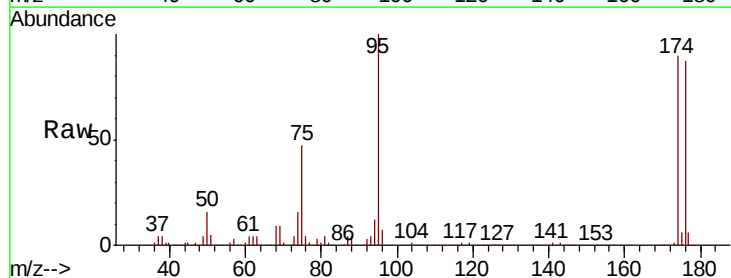
Tgt Ion: 75 Resp: 93610

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.1 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

