

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063018\  
 Data File : VX003110.D  
 Acq On : 01 Jul 2018 06:53  
 Operator : JC/MD  
 Sample : J3799-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ULMER-PARK-TRIP-BLANK-3-6-27-

Quant Time: Jul 02 04:59:01 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062518W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 14:38:05 2018  
 Response via : Initial Calibration

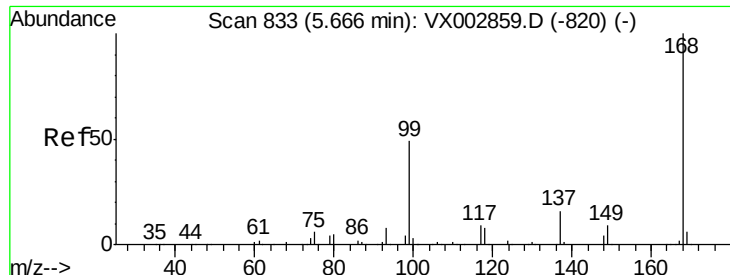
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 298519   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 420454   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 399292   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 231313   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 195199   | 47.31 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.62% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 160076   | 48.08 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.16% |          |
| 50) Toluene-d8              | 8.72  | 98   | 585126   | 48.12 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.24% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 212177   | 45.25 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.50% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 1024     | Below Cal | #      | 82     |
| 5) Bromomethane                | 1.65  | 94   | 1953     | Below Cal |        | 92     |
| 6) Chloroethane                | 1.76  | 64   | 292      | Below Cal | #      | 79     |
| 10) Methyl Iodide              | 2.52  | 142  | 1876     | 6.72      | ug/l   | 98     |
| 11) Tert butyl alcohol         | 3.08  | 59   | 2033     | 2.47      | ug/l # | 91     |
| 13) Acrolein                   | 2.31  | 56   | 223      | 4.71      | ug/l # | 63     |
| 16) Acetone                    | 2.45  | 43   | 10883    | 6.37      | ug/l   | 98     |
| 19) Methyl tert-butyl Ether    | 3.21  | 73   | 5096     | 0.48      | ug/l   | 92     |
| 25) 2-Butanone                 | 4.71  | 43   | 1414     | 0.56      | ug/l # | 51     |
| 30) Chloroform                 | 5.22  | 83   | 1550     | 0.25      | ug/l # | 84     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 19470    | 4.22      | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 26867    | 5.31      | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.77  | 88   | 61       | 0.73      | ug/l # | 1      |
| 68) m/p-Xylenes                | 10.36 | 106  | 1538     | 0.24      | ug/l   | 90     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 107772   | 25.72     | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 107772   | 72.97     | ug/l # | 7      |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003110.D

Acq: 01 Jul 2018 06:53

Instrument :

MSVOA\_X

ClientSampleId :

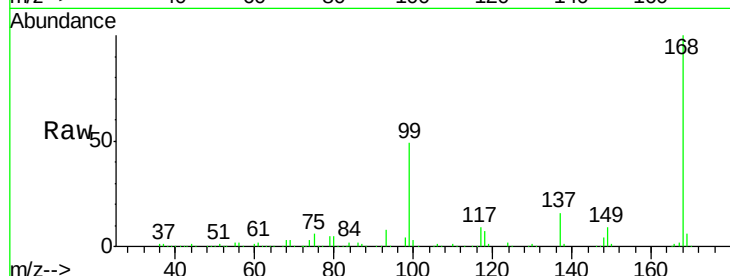
ULMER-PARK-TRIP-BLANK-3-6-27-

Tot Ion:168 Resp: 298519

Ion Ratio Lower Upper

168 100

99 48.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

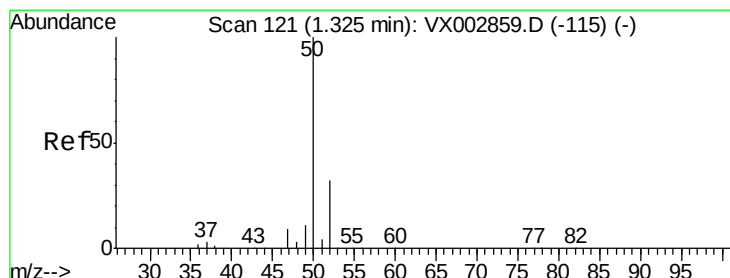
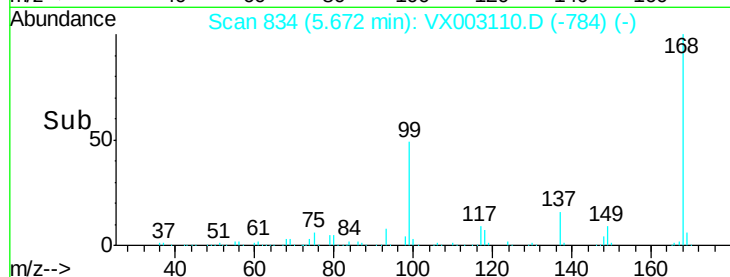
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003110.D

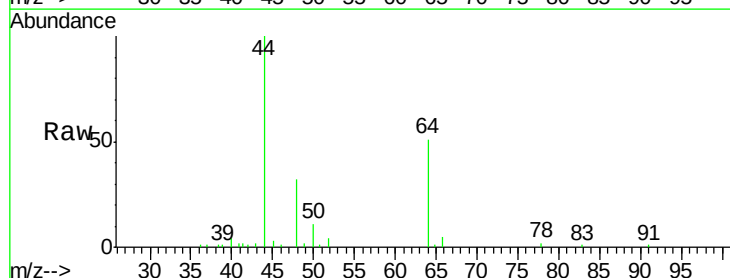
Acq: 01 Jul 2018 06:53

Tgt Ion: 50 Resp: 1024

Ion Ratio Lower Upper

50 100

52 42.1 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

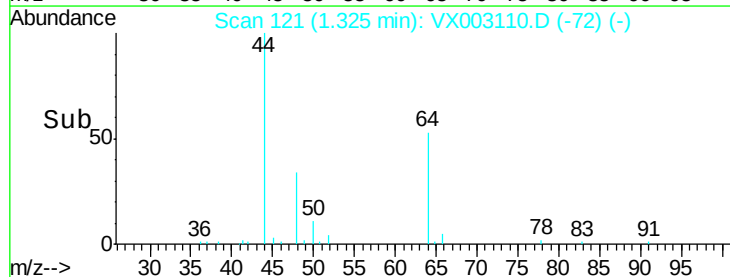
600

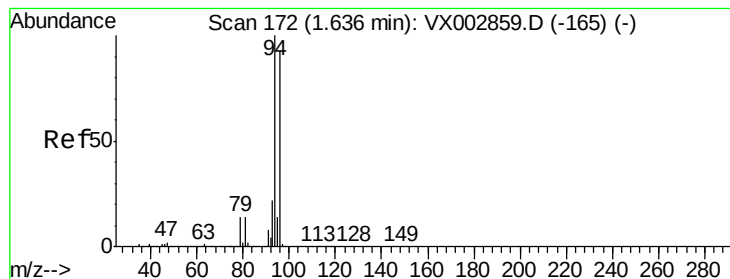
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003110.D

Acq: 01 Jul 2018 06:53

Instrument :

MSVOA\_X

ClientSampleId :

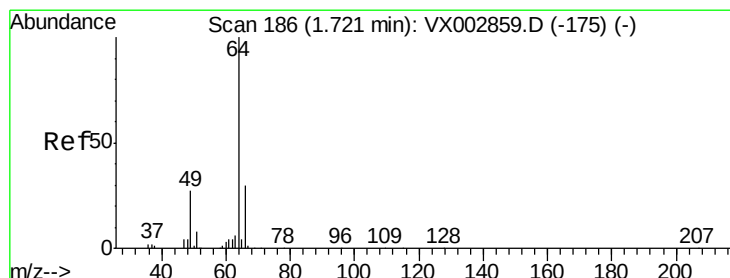
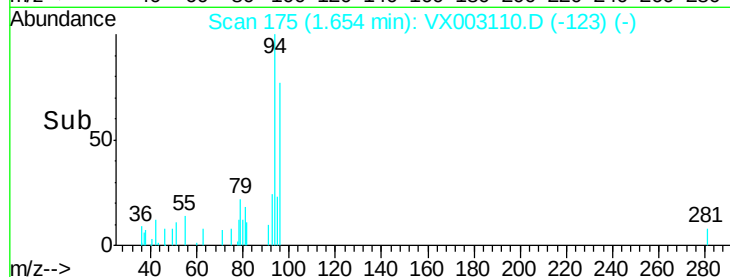
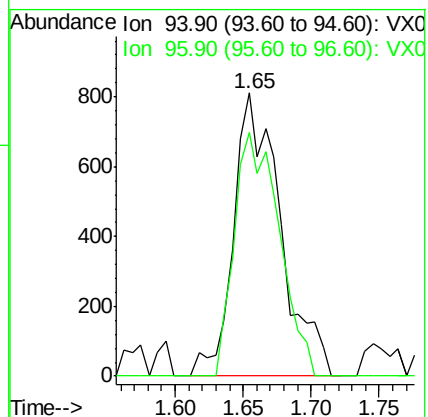
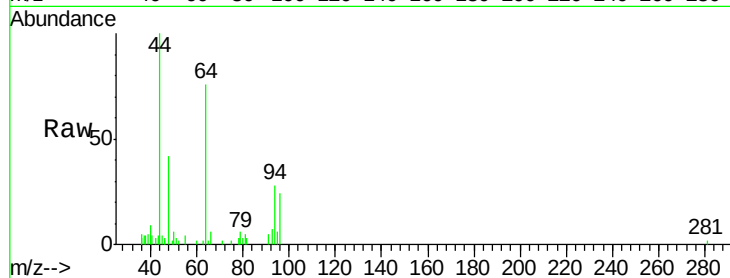
ULMER-PARK-TRIP-BLANK-3-6-27-

Tot Ion: 94 Resp: 1953

Ion Ratio Lower Upper

94 100

96 86.2 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.76 min Scan# 192

Delta R.T. 0.04 min

Lab File: VX003110.D

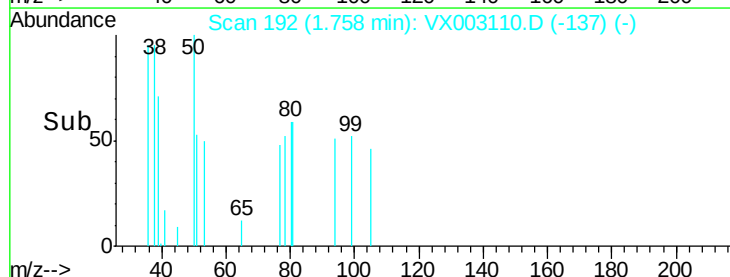
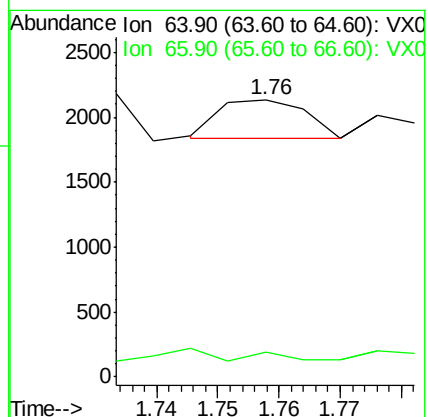
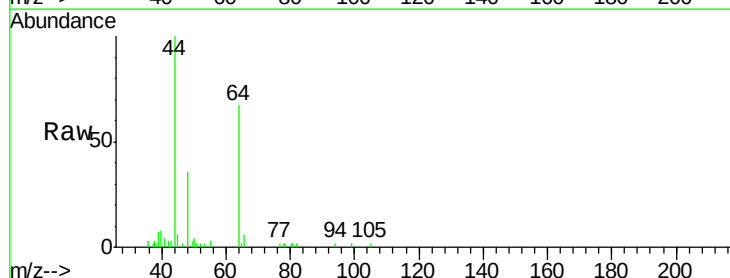
Acq: 01 Jul 2018 06:53

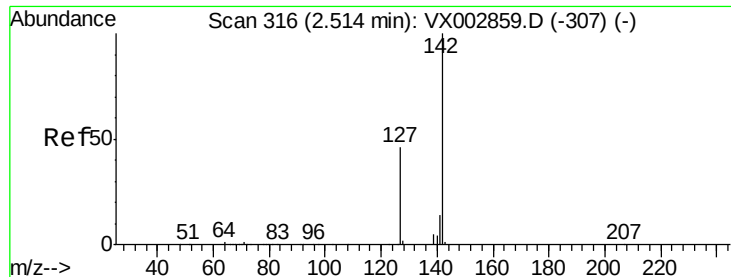
Tgt Ion: 64 Resp: 292

Ion Ratio Lower Upper

64 100

66 20.5 25.5 38.3#

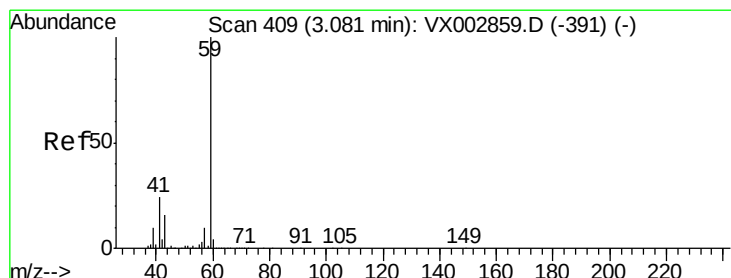
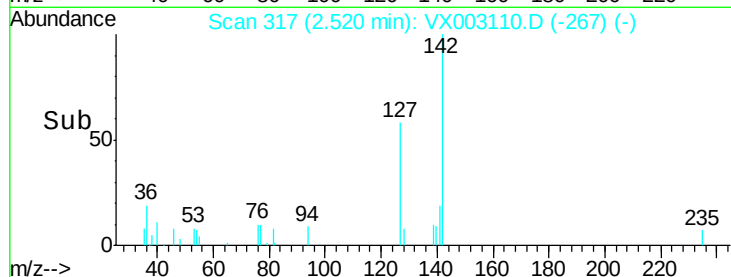
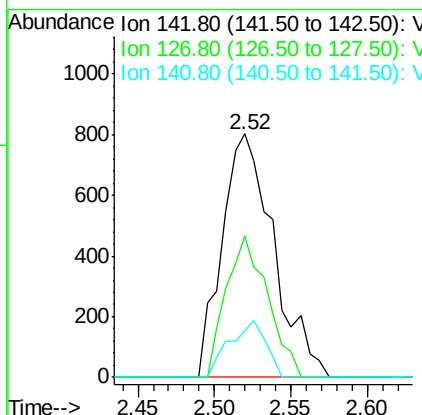
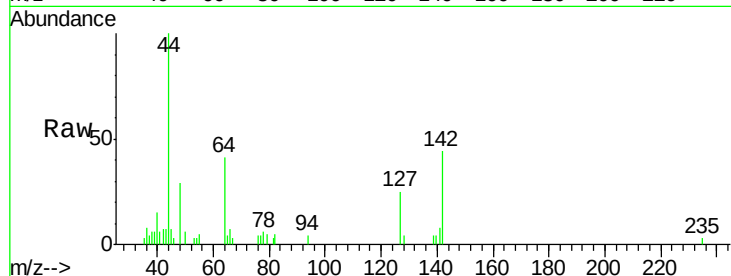




#10  
Methvl Iodide  
Concen: 6.72 ug/l  
RT: 2.52 min Scan# 317  
Delta R.T. 0.01 min  
Lab File: VX003110.D  
Acq: 01 Jul 2018 06:53

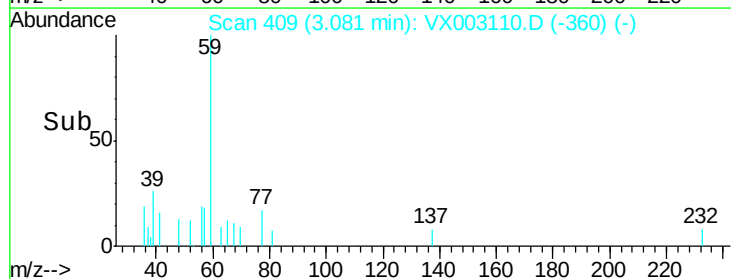
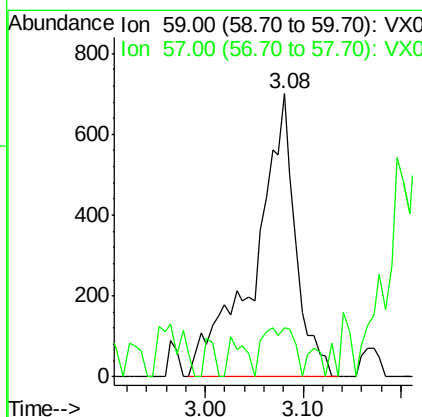
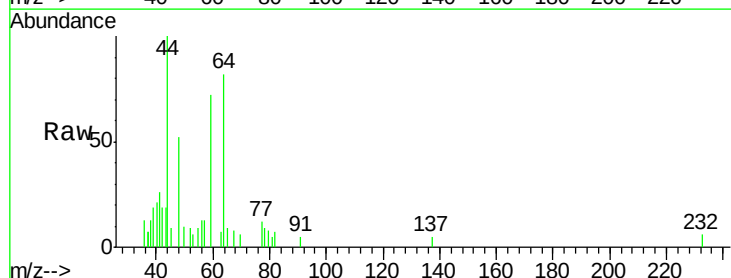
Instrument :  
MSVOA\_X  
ClientSampleId :  
ULMER-PARK-TRIP-BLANK-3-6-27-

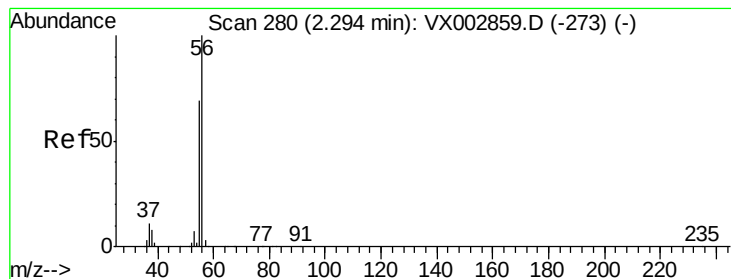
Tot Ion:142 Resp: 1876  
Ion Ratio Lower Upper  
142 100  
127 46.7 36.6 55.0  
141 16.4 11.3 16.9



#11  
Tert butyl alcohol  
Concen: 2.47 ug/l  
RT: 3.08 min Scan# 409  
Delta R.T. 0.00 min  
Lab File: VX003110.D  
Acq: 01 Jul 2018 06:53

Tgt Ion: 59 Resp: 2033  
Ion Ratio Lower Upper  
59 100  
57 13.4 8.2 12.2#





#13

Acrolein

Concen: 4.71 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX003110.D

Acq: 01 Jul 2018 06:53

Instrument :

MSVOA\_X

ClientSampleId :

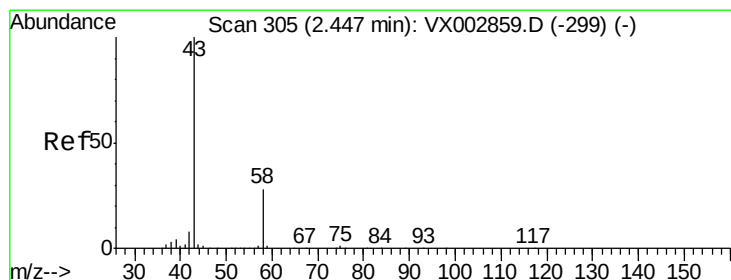
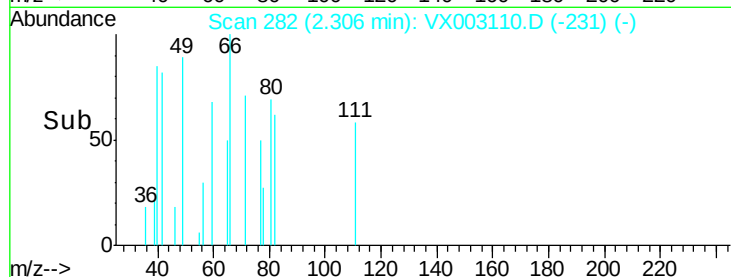
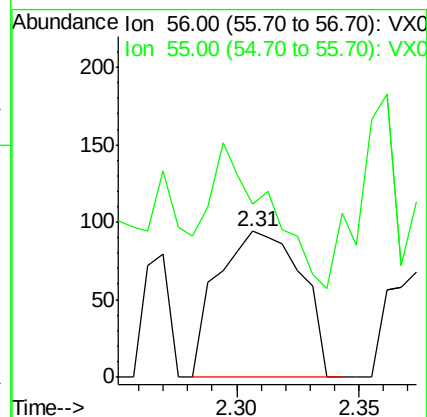
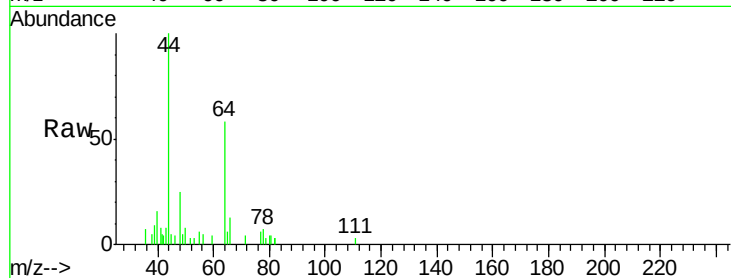
ULMER-PARK-TRIP-BLANK-3-6-27-

Tot Ion: 56 Resp: 223

Ion Ratio Lower Upper

56 100

55 102.2 57.0 85.4#



#16

Acetone

Concen: 6.37 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003110.D

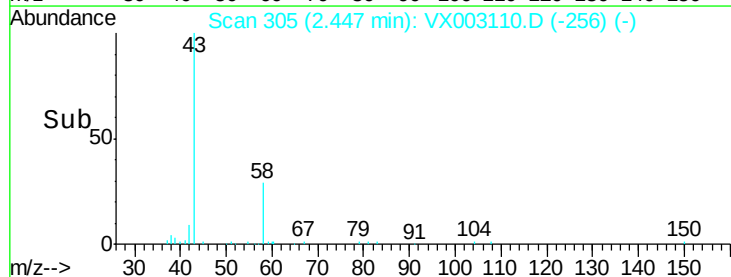
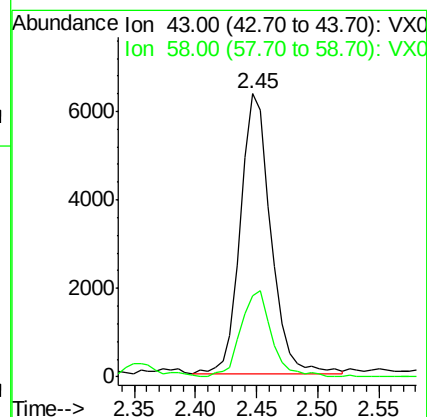
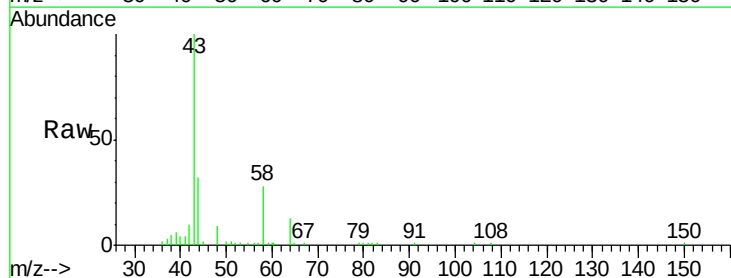
Acq: 01 Jul 2018 06:53

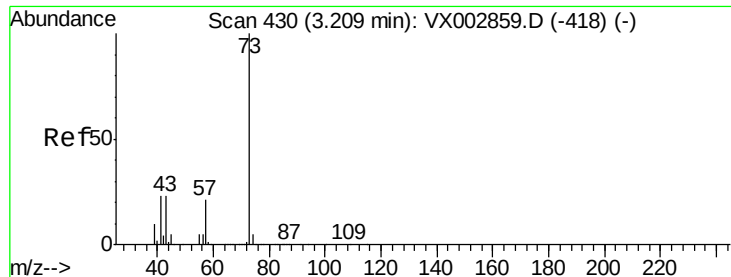
Tgt Ion: 43 Resp: 10883

Ion Ratio Lower Upper

43 100

58 28.8 22.1 33.1





#19

Methyl tert-butyl Ether

Concen: 0.48 ug/l

RT: 3.21 min Scan# 430

Delta R.T. 0.00 min

Lab File: VX003110.D

Acq: 01 Jul 2018 06:53

Instrument :

MSVOA\_X

ClientSampleId :

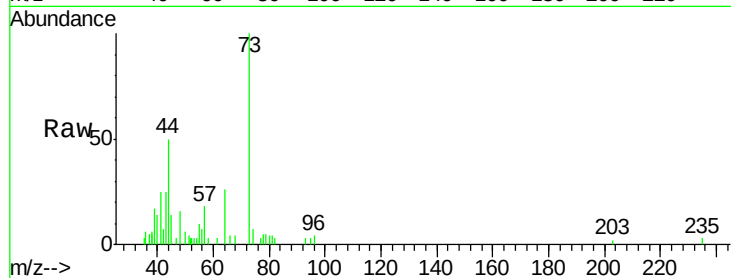
ULMER-PARK-TRIP-BLANK-3-6-27-

Tot Ion: 73 Resp: 5096

Ion Ratio Lower Upper

73 100

57 18.4 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

2500

2000

1500

1000

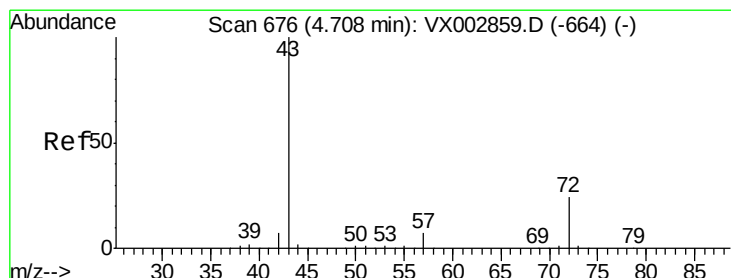
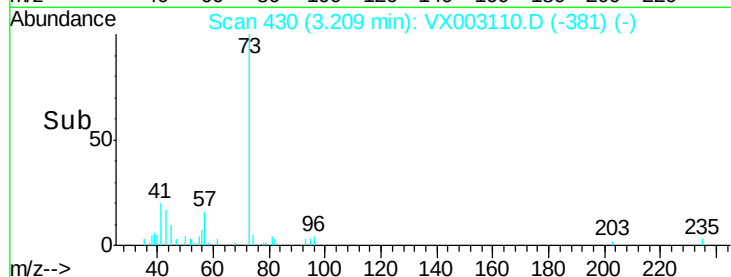
500

0

Time-->

3.10 3.15 3.20 3.25 3.30

3.21



#25

2-Butanone

Concen: 0.56 ug/l

RT: 4.71 min Scan# 676

Delta R.T. 0.00 min

Lab File: VX003110.D

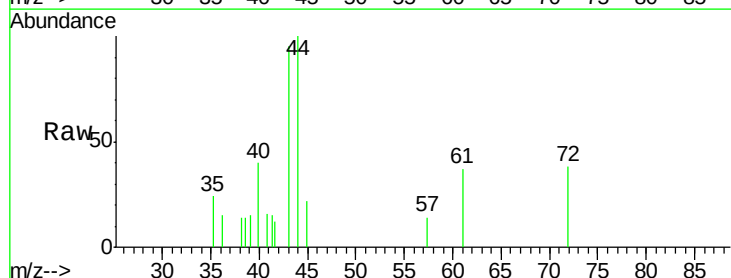
Acq: 01 Jul 2018 06:53

Tgt Ion: 43 Resp: 1414

Ion Ratio Lower Upper

43 100

72 46.7 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

400

300

200

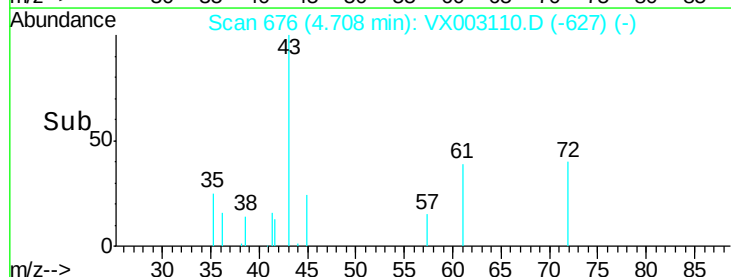
100

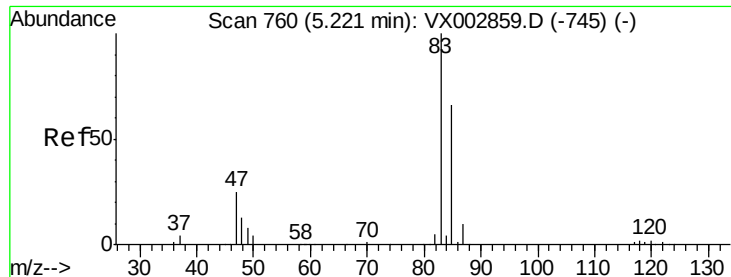
0

Time-->

4.65 4.70 4.75 4.80

4.71





#30

Chloroform

Concen: 0.25 ug/l

RT: 5.22 min Scan# 760

Delta R.T. 0.00 min

Lab File: VX003110.D

Acq: 01 Jul 2018 06:53

Instrument :

MSVOA\_X

ClientSampleId :

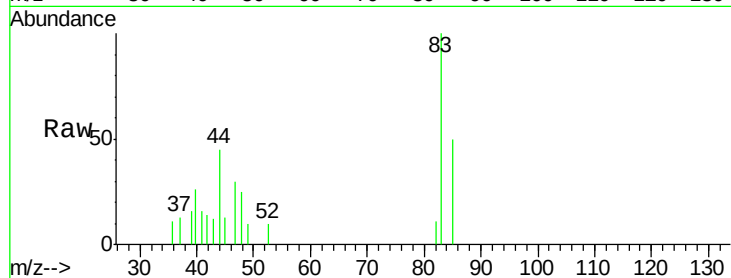
ULMER-PARK-TRIP-BLANK-3-6-27-

Tot Ion: 83 Resp: 1550

Ion Ratio Lower Upper

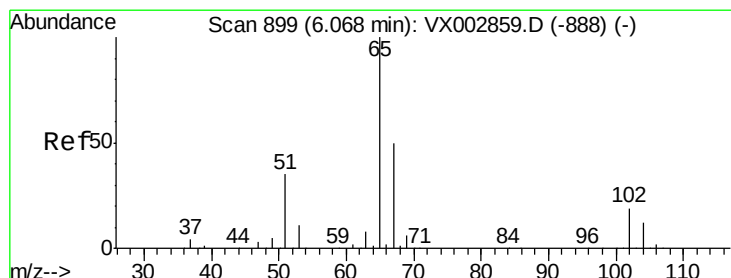
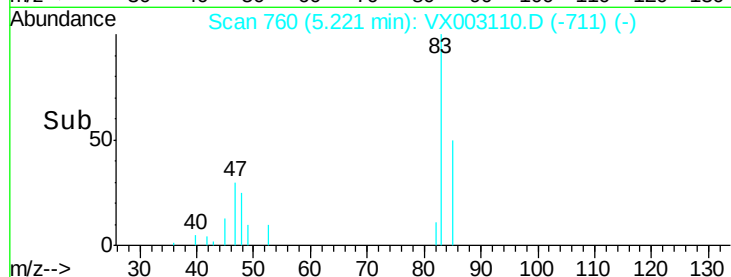
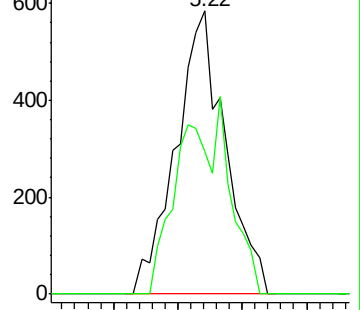
83 100

85 50.3 50.4 75.6#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.31 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003110.D

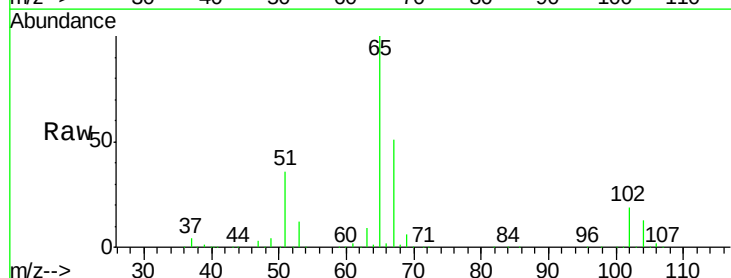
Acq: 01 Jul 2018 06:53

Tgt Ion: 65 Resp: 195199

Ion Ratio Lower Upper

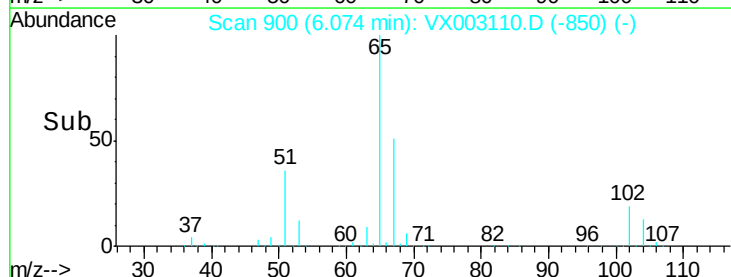
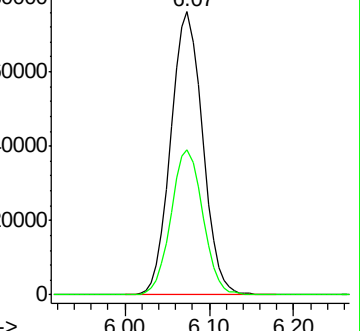
65 100

67 51.4 0.0 102.6

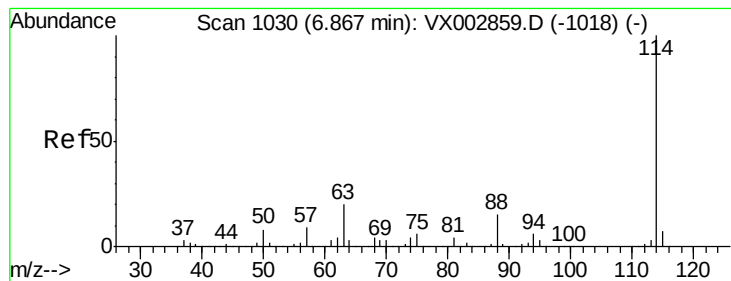


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0







#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003110.D

Acq: 01 Jul 2018 06:53

Instrument :

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ULMER-PARK-TRIP-BLANK-3-6-27-

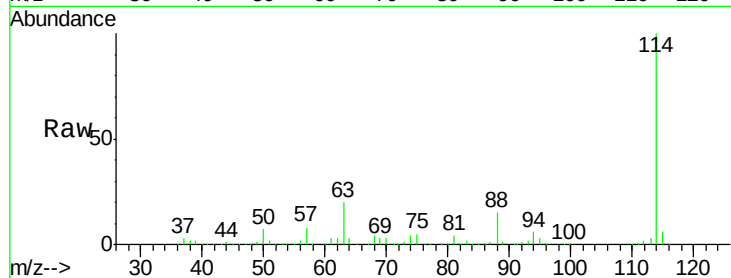
Tot Ion:114 Resp: 420454

Ion Ratio Lower Upper

114 100

63 19.7 0.0 41.4

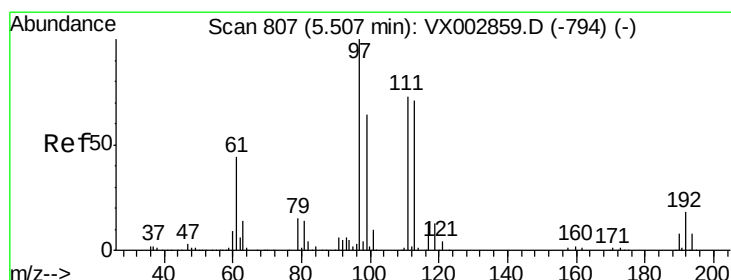
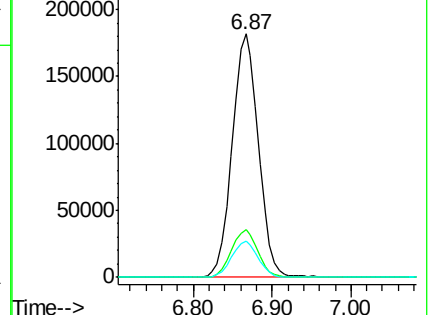
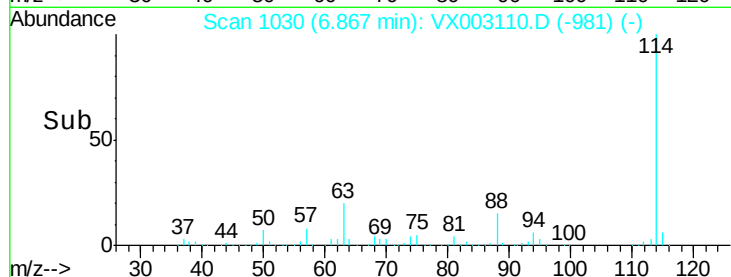
88 15.0 0.0 30.0



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: 48.08 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003110.D

Acq: 01 Jul 2018 06:53

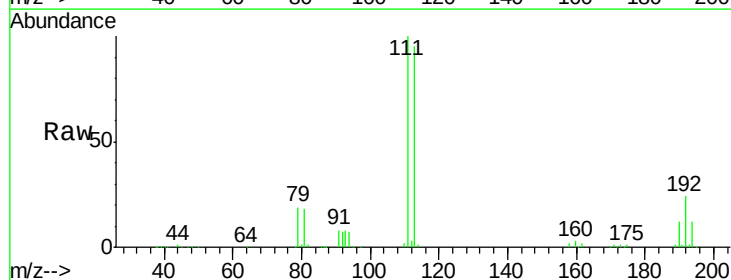
Tgt Ion:113 Resp: 160076

Ion Ratio Lower Upper

113 100

111 103.4 81.4 122.0

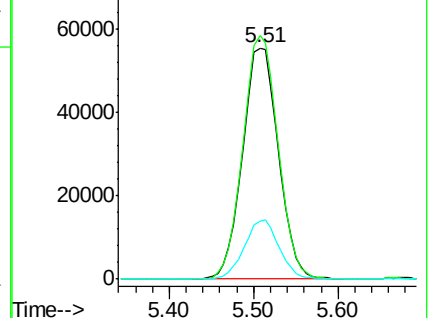
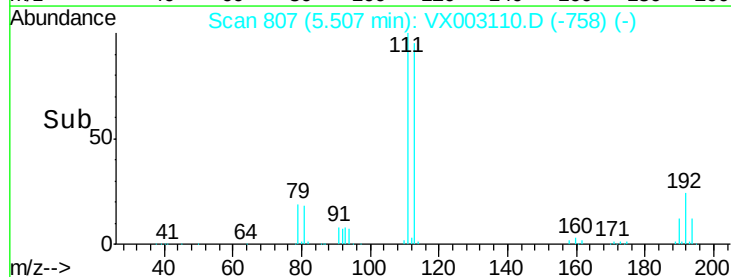
192 24.7 19.1 28.7

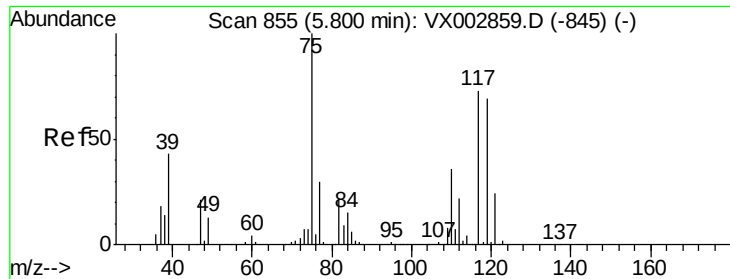


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

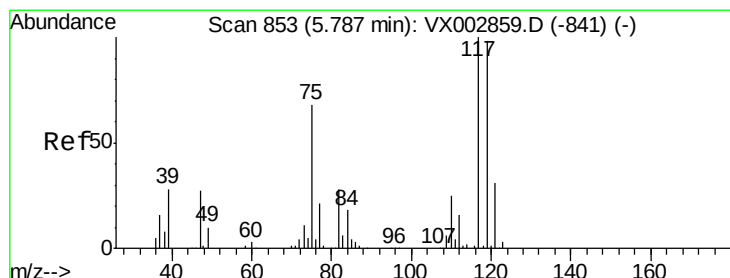
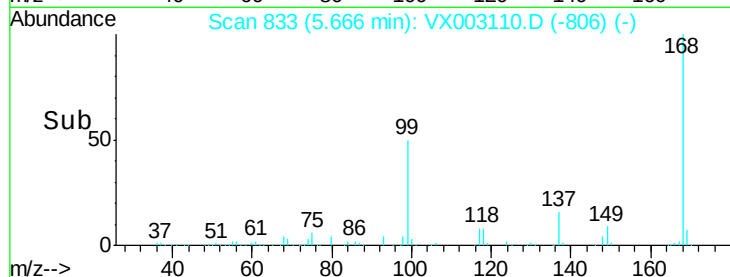
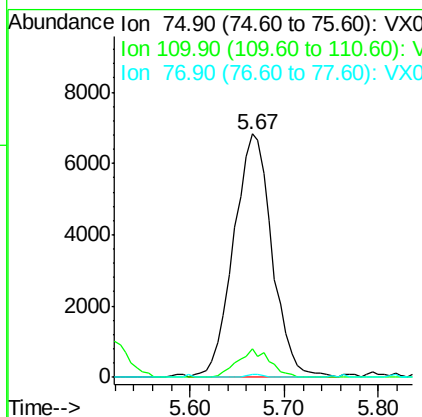
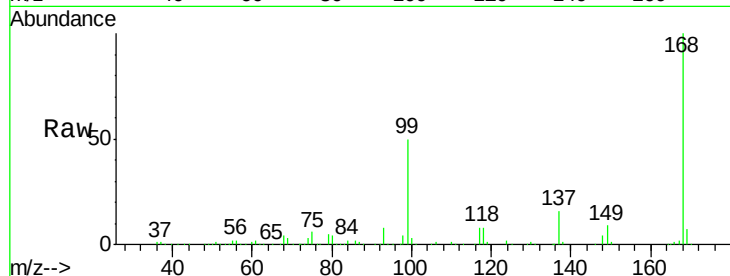




#36  
 1,1-Dichloropropene  
 Concen: 4.22 ug/l  
 RT: 5.67 min Scan# 833  
 Delta R.T. -0.13 min  
 Lab File: VX003110.D  
 Acq: 01 Jul 2018 06:53

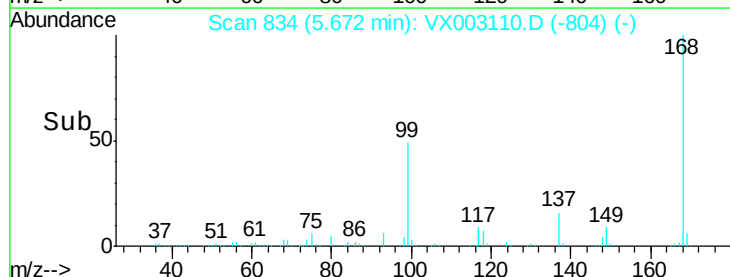
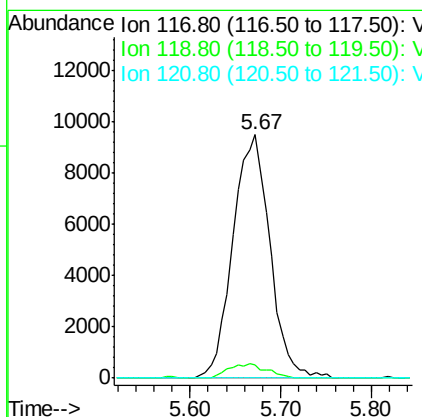
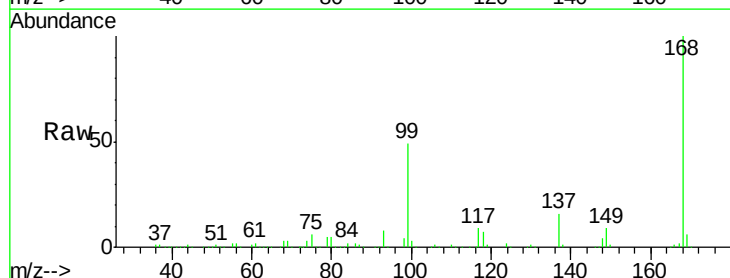
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ULMER-PARK-TRIP-BLANK-3-6-27-

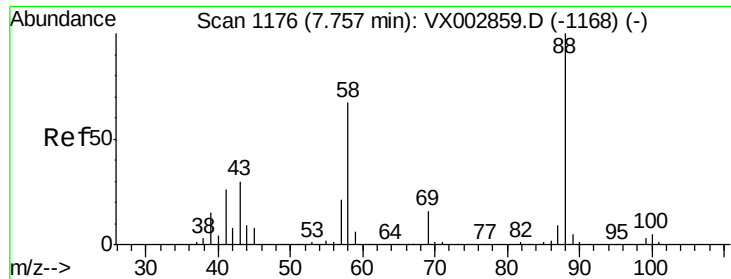
| Tot Ion   | 75    | Resp  | 19470 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 9.9   | 18.1  | 54.4# |
| 77        | 0.5   | 24.3  | 36.5# |



#38  
 Carbon Tetrachloride  
 Concen: 5.31 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.12 min  
 Lab File: VX003110.D  
 Acq: 01 Jul 2018 06:53

| Tgt Ion   | 117   | Resp  | 26867  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 5.6   | 77.4  | 116.0# |
| 121       | 0.0   | 24.4  | 36.6#  |

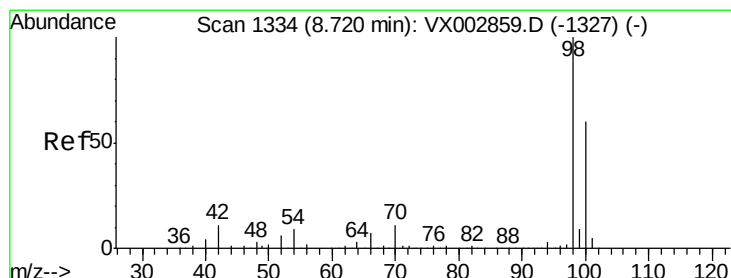
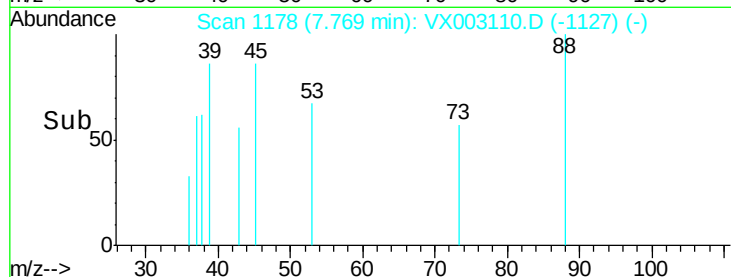
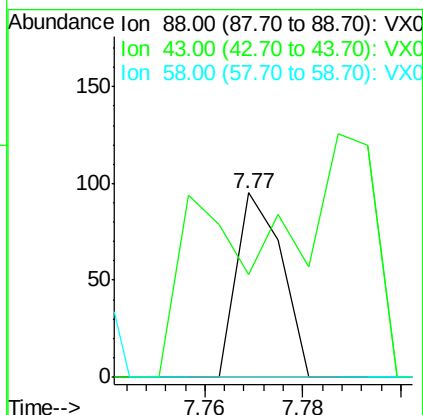
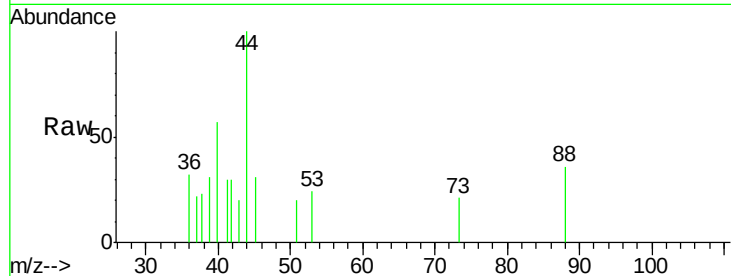




#49  
1,4-Dioxane  
Concen: 0.73 ug/l  
RT: 7.77 min Scan# 1178  
Delta R.T. 0.01 min  
Lab File: VX003110.D  
Acq: 01 Jul 2018 06:53

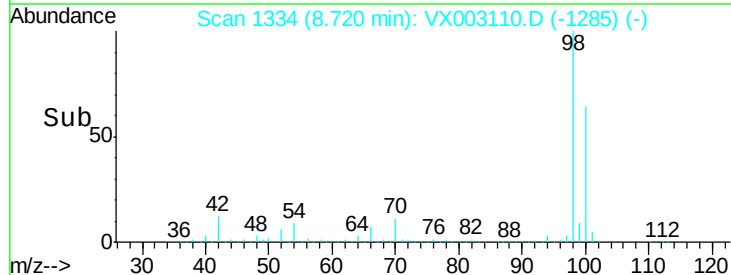
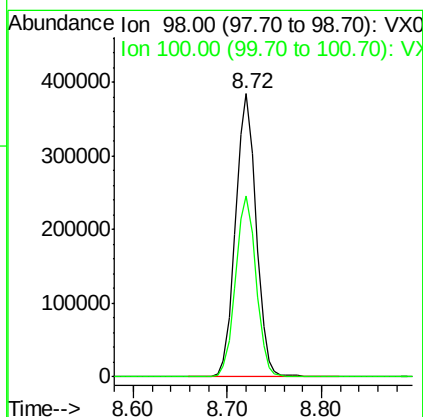
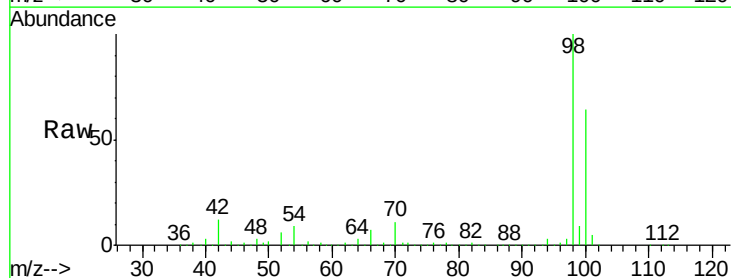
Instrument :  
MSVOA\_X  
ClientSampleId :  
ULMER-PARK-TRIP-BLANK-3-6-27-

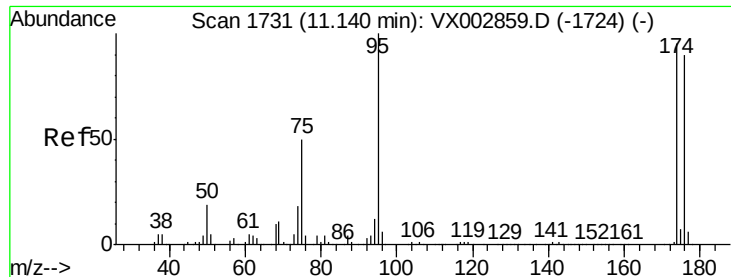
Tot Ion: 88 Resp: 61  
Ion Ratio Lower Upper  
88 100  
43 136.1 29.8 44.6#  
58 0.0 57.1 85.7#



#50  
Toluene-d8  
Concen: 48.12 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX003110.D  
Acq: 01 Jul 2018 06:53

Tgt Ion: 98 Resp: 585126  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 45.25 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003110.D

Acq: 01 Jul 2018 06:53

Instrument :

MSVOA\_X

ClientSampleId :

ULMER-PARK-TRIP-BLANK-3-6-27-

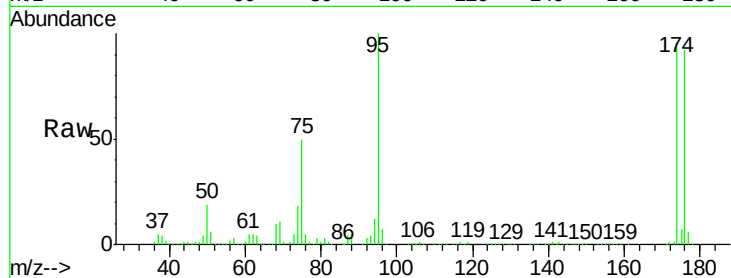
Tot Ion: 95 Resp: 212177

Ion Ratio Lower Upper

95 100

174 97.2 0.0 187.4

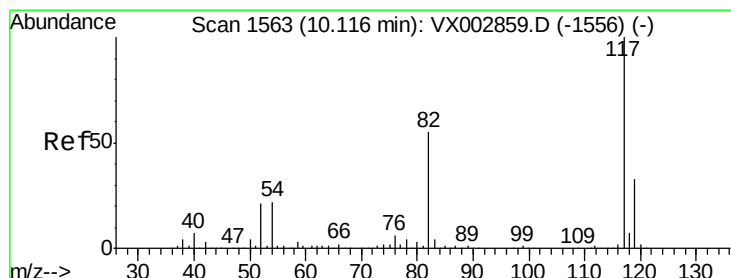
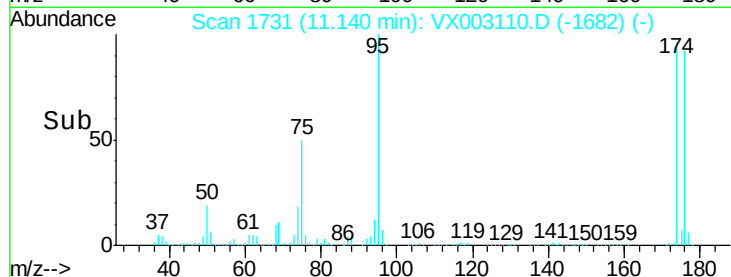
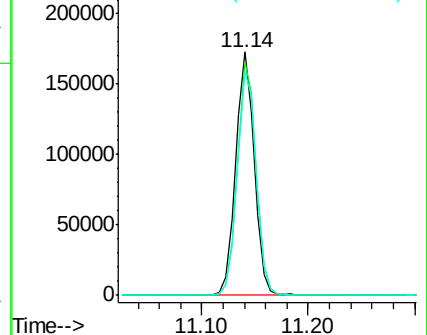
176 94.0 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003110.D

Acq: 01 Jul 2018 06:53

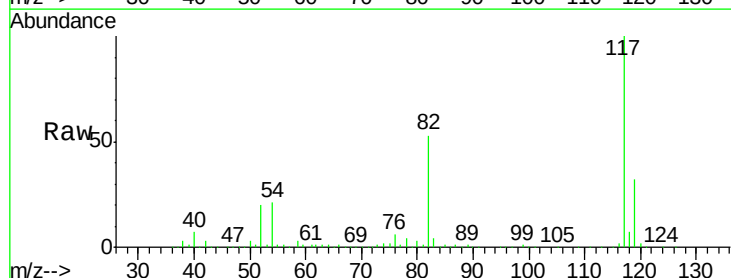
Tgt Ion: 117 Resp: 399292

Ion Ratio Lower Upper

117 100

82 53.3 45.0 67.4

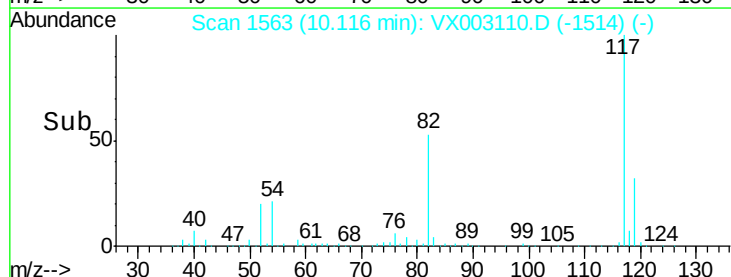
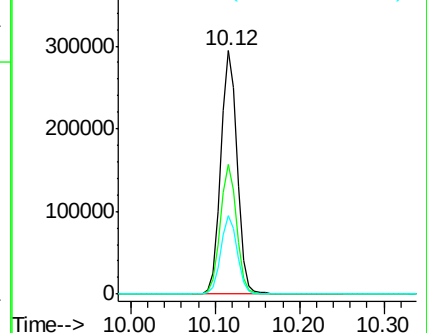
119 32.2 25.8 38.6

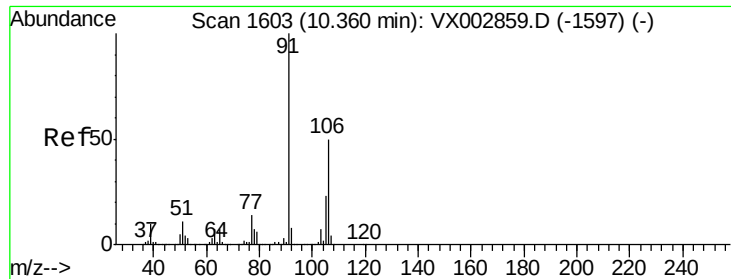


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

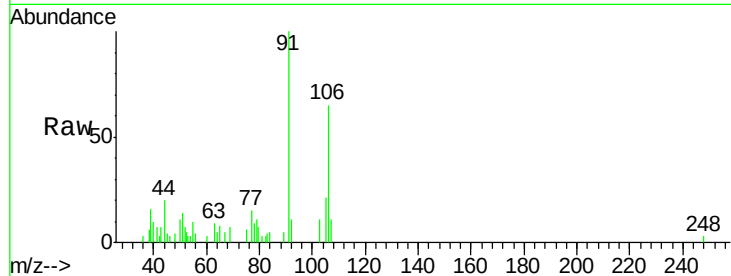




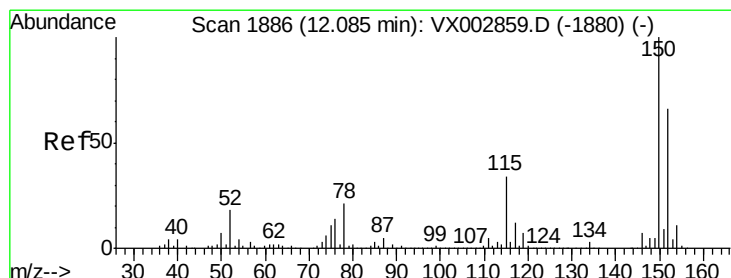
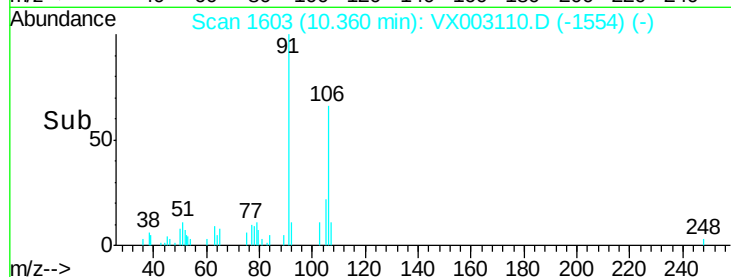
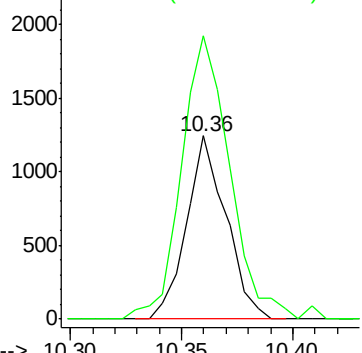
#68  
m/p-Xvlenes  
Concen: 0.24 ug/l  
RT: 10.36 min Scan# 1603  
Delta R.T. 0.00 min  
Lab File: VX003110.D  
Acq: 01 Jul 2018 06:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
ULMER-PARK-TRIP-BLANK-3-6-27-

Tot Ion:106 Resp: 1538  
Ion Ratio Lower Upper  
106 100  
91 188.3 163.4 245.2

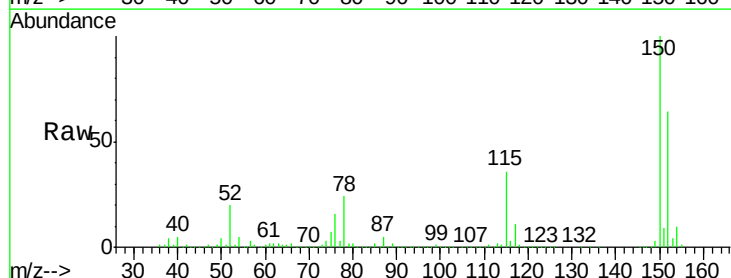


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0

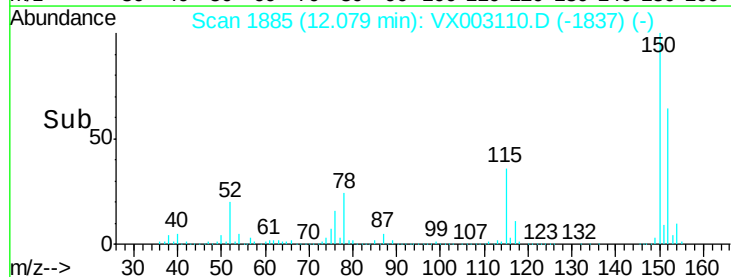
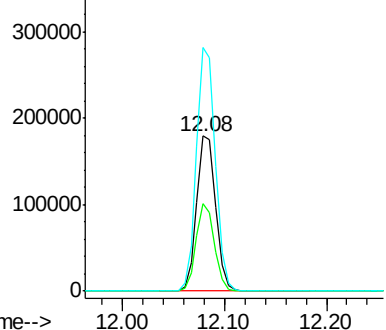


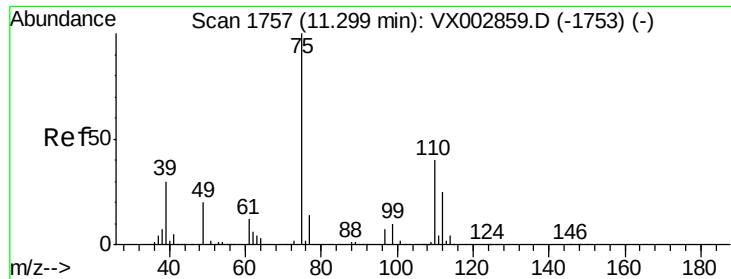
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.08 min Scan# 1885  
Delta R.T. -0.01 min  
Lab File: VX003110.D  
Acq: 01 Jul 2018 06:53

Tgt Ion:152 Resp: 231313  
Ion Ratio Lower Upper  
152 100  
115 54.5 40.1 120.2  
150 155.8 0.0 347.2



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: 25.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003110.D

Acq: 01 Jul 2018 06:53

Instrument :

MSVOA\_X

ClientSampleId :

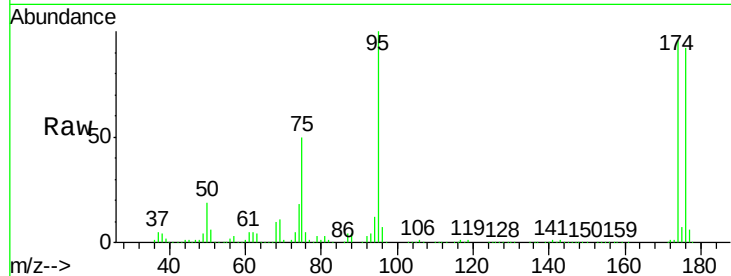
ULMER-PARK-TRIP-BLANK-3-6-27-

Tot Ion: 75 Resp: 107772

Ion Ratio Lower Upper

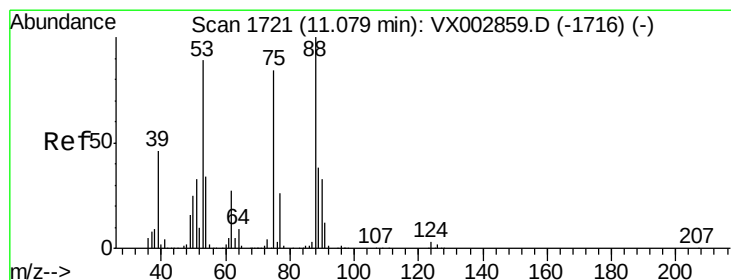
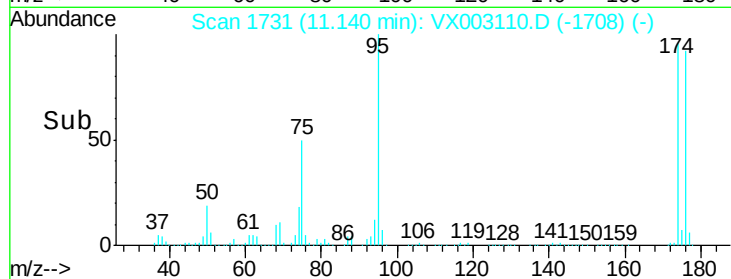
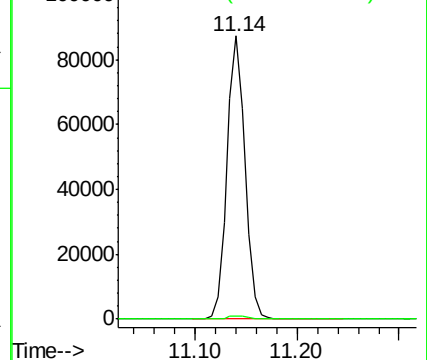
75 100

77 1.3 22.8 68.3#



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: 72.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003110.D

Acq: 01 Jul 2018 06:53

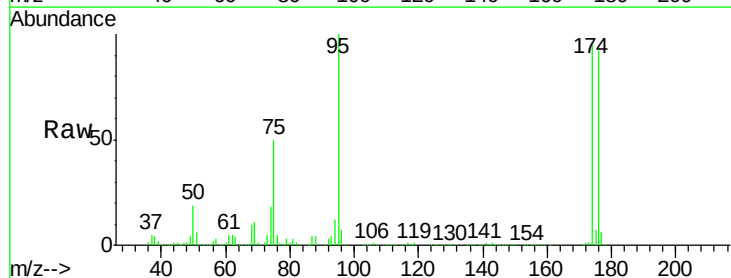
Tgt Ion: 75 Resp: 107772

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



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

