

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX041418\  
 Data File : VX000867.D  
 Acq On : 14 Apr 2018 11:40  
 Operator : JC/MD  
 Sample : J2353-10  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z1TB02-180410

Quant Time: Apr 16 05:48:39 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 10 15:49:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 257735   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 341802   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 310914   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 203161   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 150706   | 46.37 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.74% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 122057   | 46.35 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.70% |      |
| 50) Toluene-d8              | 8.72   | 98  | 473964   | 48.34 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.68% |      |
| 62) 4-Bromofluorobenzene    | 11.15  | 95  | 181593   | 44.76 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.52% |      |

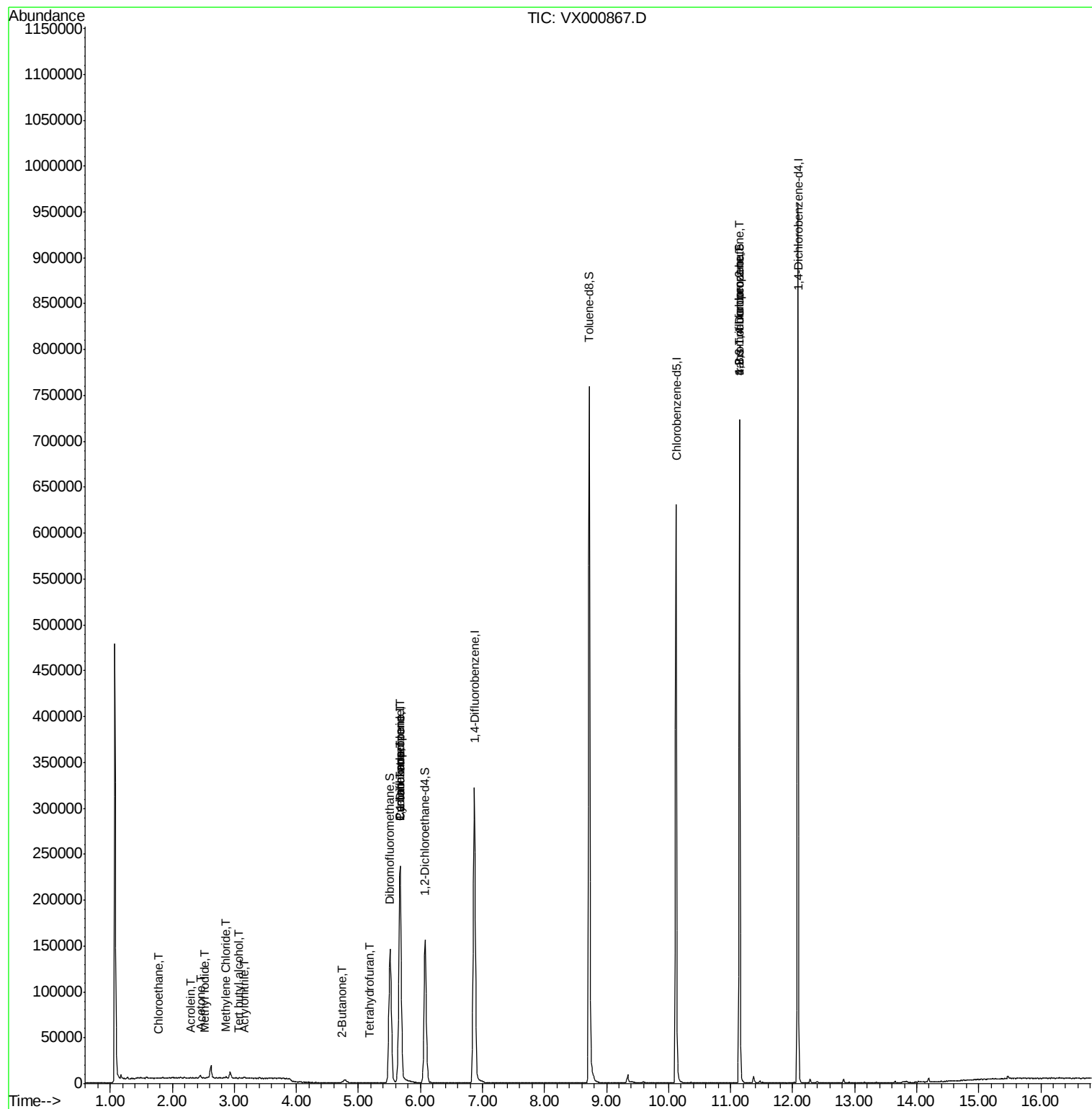
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 5) Bromomethane                | 1.65  | 94   | 345      | Below Cal | #     | 79     |
| 6) Chloroethane                | 1.77  | 64   | 348      | 0.20      | ug/l  | 90     |
| 10) Methyl Iodide              | 2.52  | 142  | 189      | 8.31      | ug/l  | # 42   |
| 11) Tert butyl alcohol         | 3.07  | 59   | 299      | 0.52      | ug/l  | # 72   |
| 13) Acrolein                   | 2.30  | 56   | 351      | 1.25      | ug/l  | # 13   |
| 15) Acrylonitrile              | 3.15  | 53   | 514      | 0.42      | ug/l  | # 56   |
| 16) Acetone                    | 2.45  | 43   | 3411     | 3.04      | ug/l  | # 84   |
| 20) Methylene Chloride         | 2.86  | 84   | 661      | 0.25      | ug/l  | # 85   |
| 25) 2-Butanone                 | 4.73  | 43   | 405      | 0.22      | ug/l  | # 50   |
| 29) Tetrahydrofuran            | 5.18  | 42   | 522      | 0.44      | ug/l  | # 33   |
| 31) Cyclohexane                | 5.68  | 56   | 4295     | 1.00      | ug/l  | # 11   |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 15502    | 4.12      | ug/l  | # 48   |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 21799    | 5.17      | ug/l  | # 15   |
| 76) 1,2,3-Trichloropropane     | 11.15 | 75   | 89959    | 25.68     | ug/l  | # 36   |
| 81) trans-1,4-Dichloro-2-buten | 11.15 | 75   | 89959    | 70.63     | ug/l  | # 11   |

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

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ClientSampleId :  
Z1TB02-180410

Quant Time: Apr 16 05:48:39 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 10 15:49:28 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

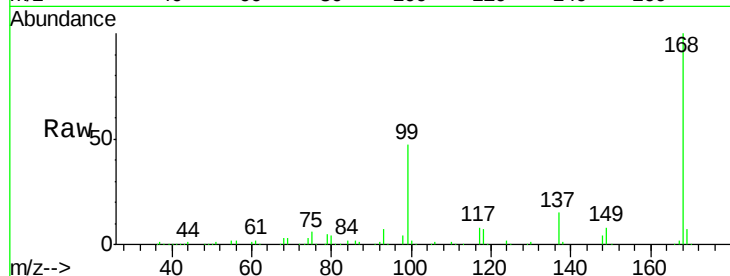
Z1TB02-180410

Tgt Ion:168 Resp: 257735

Ion Ratio Lower Upper

168 100

99 46.7 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

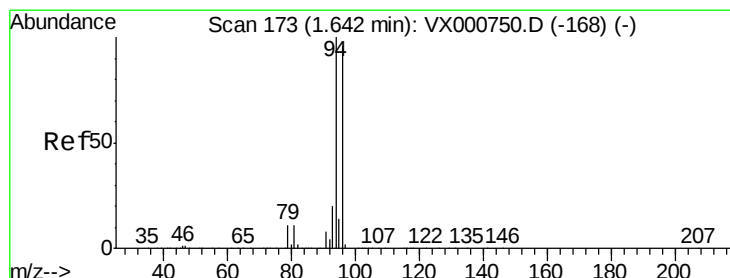
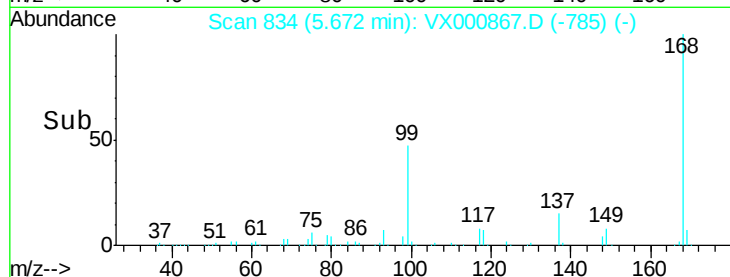
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000867.D

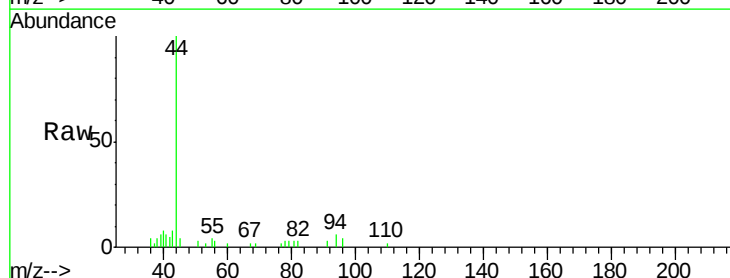
Acq: 14 Apr 2018 11:40

Tgt Ion: 94 Resp: 345

Ion Ratio Lower Upper

94 100

96 75.6 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

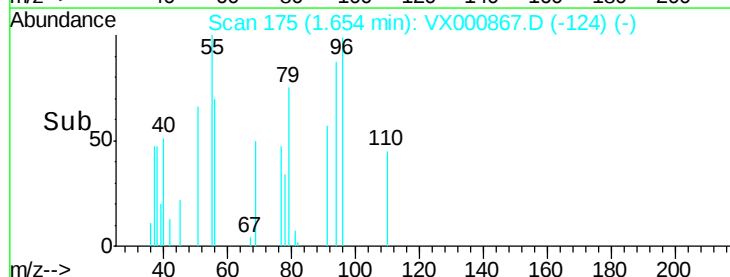
150

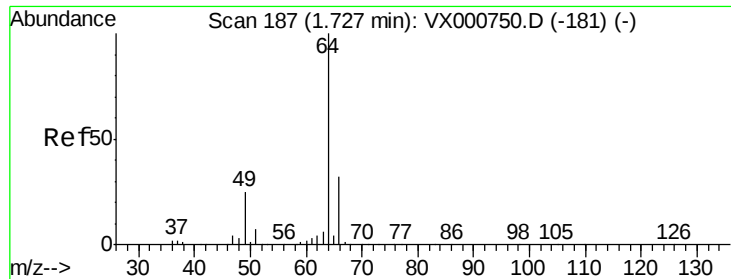
100

50

0

Time--> 1.60 1.65





#6

Chloroethane

Concen: 0.20 ug/l

RT: 1.77 min Scan# 194

Delta R.T. 0.04 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

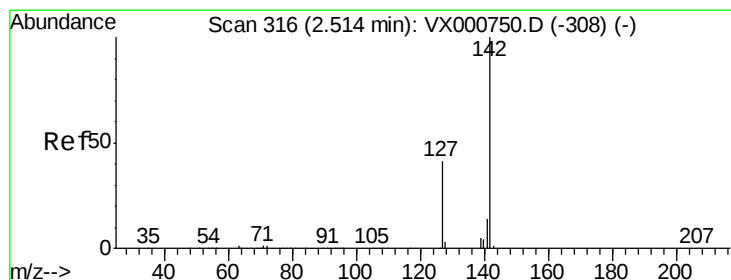
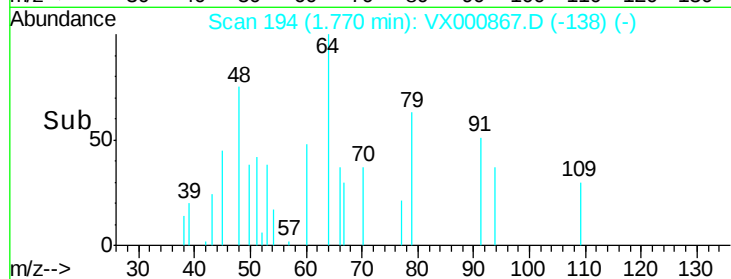
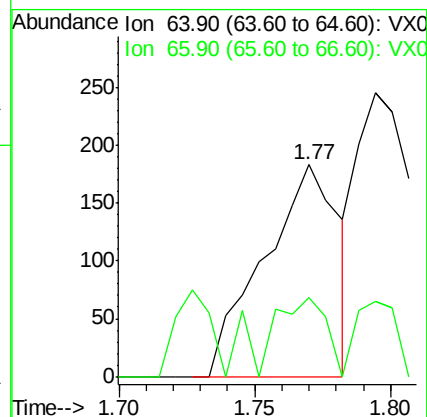
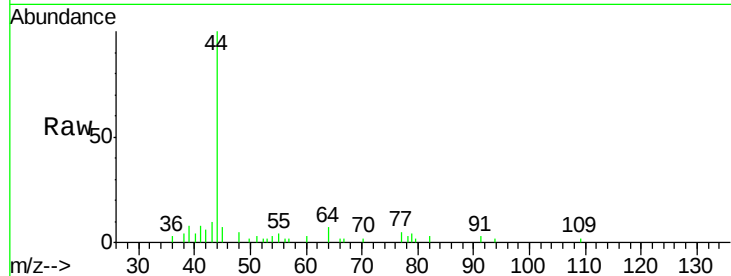
Z1TB02-180410

Tgt Ion: 64 Resp: 348

Ion Ratio Lower Upper

64 100

66 37.2 25.3 37.9



#10

Methyl Iodide

Concen: 8.31 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

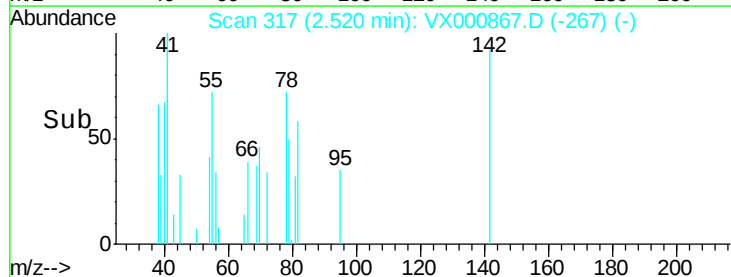
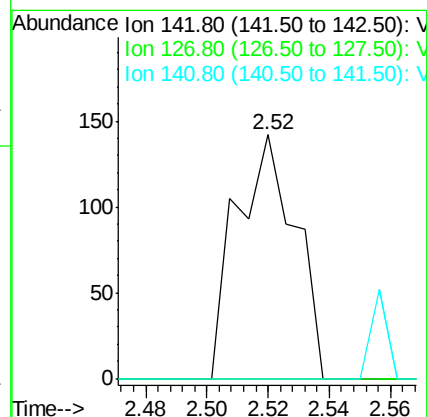
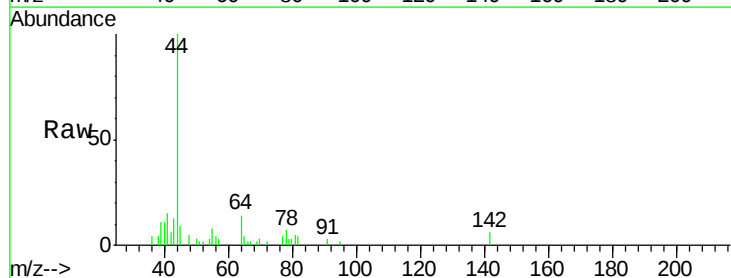
Tgt Ion: 142 Resp: 189

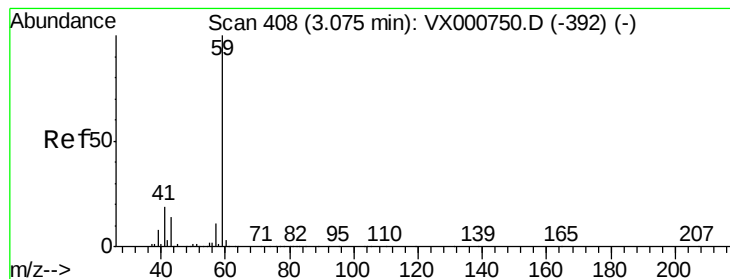
Ion Ratio Lower Upper

142 100

127 0.0 32.6 49.0#

141 0.0 11.5 17.3#



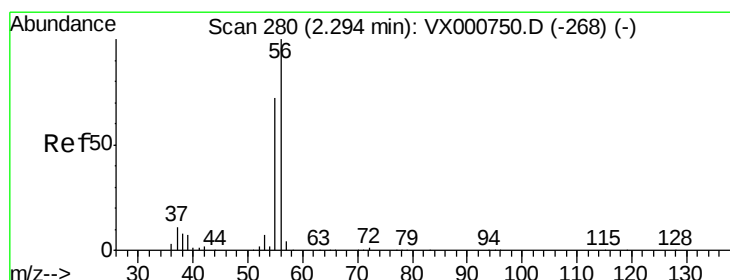
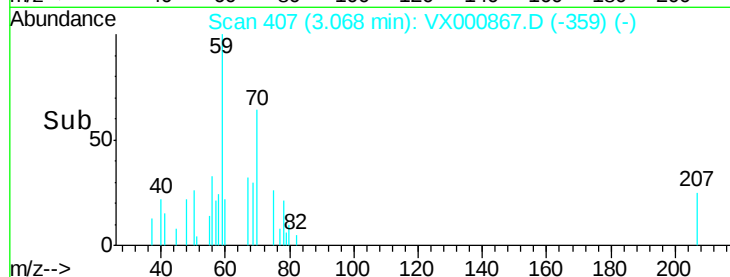
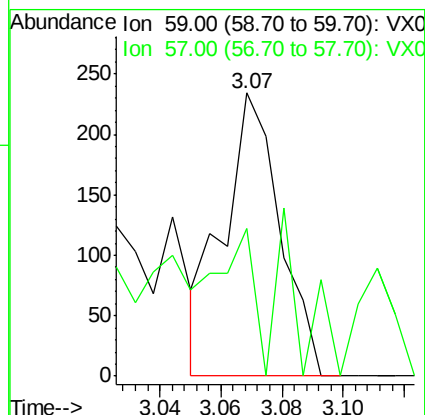
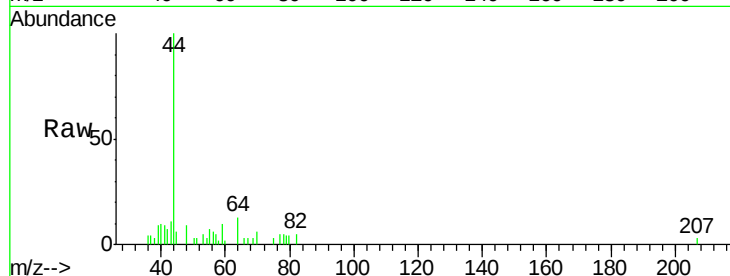


#11

Tert butyl alcohol  
 Concen: 0.52 ug/l  
 RT: 3.07 min Scan# 407  
 Delta R.T. -0.01 min  
 Lab File: VX000867.D  
 Acq: 14 Apr 2018 11:40

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z1TB02-180410

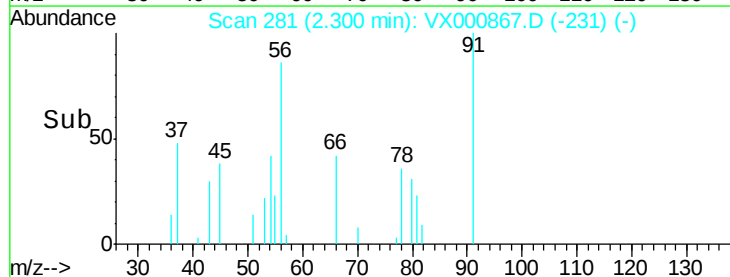
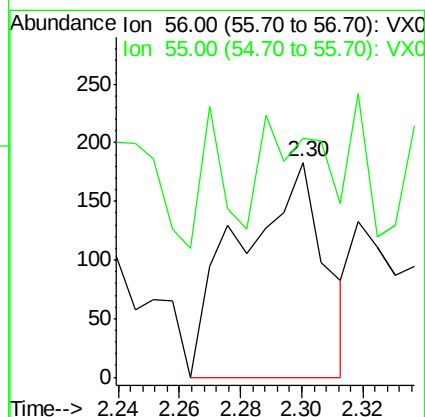
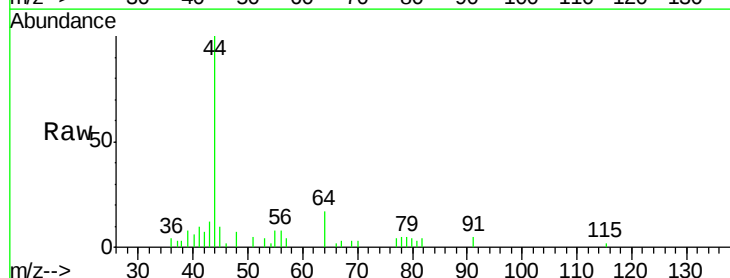
Tgt Ion: 59 Resp: 299  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.4 12.6#

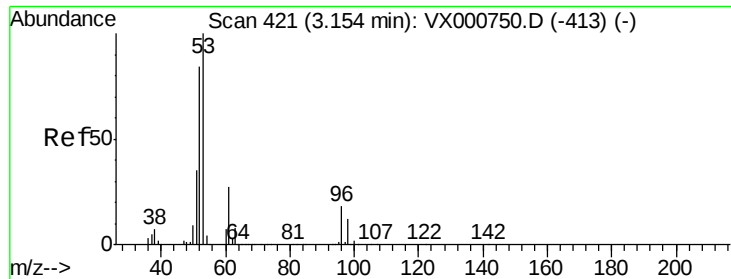


#13

Acrolein  
 Concen: 1.25 ug/l  
 RT: 2.30 min Scan# 281  
 Delta R.T. 0.01 min  
 Lab File: VX000867.D  
 Acq: 14 Apr 2018 11:40

Tgt Ion: 56 Resp: 351  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 58.7 88.1#





#15

Acrylonitrile

Concen: 0.42 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

Z1TB02-180410

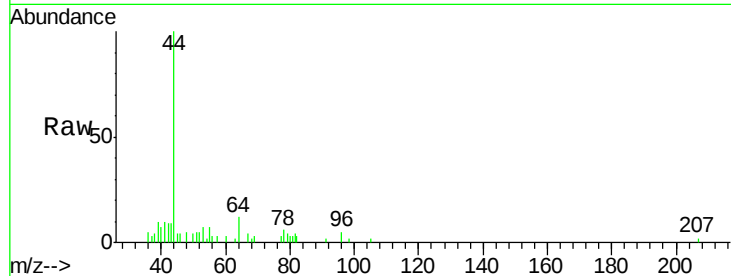
Tgt Ion: 53 Resp: 514

Ion Ratio Lower Upper

53 100

52 49.6 66.5 99.7#

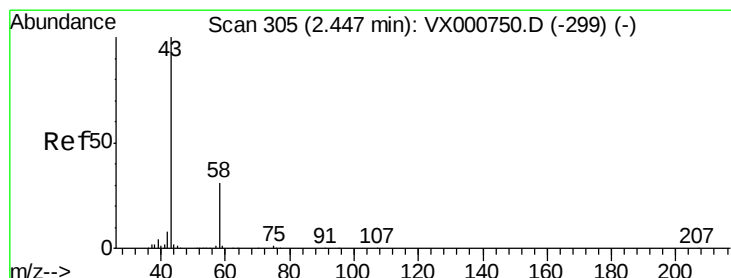
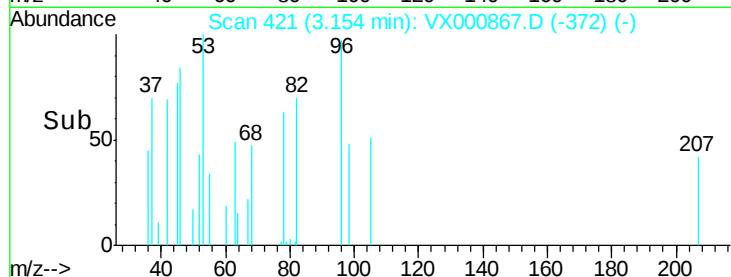
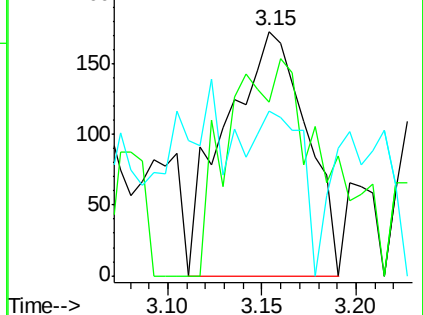
51 0.0 28.8 43.2#



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: 3.04 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX000867.D

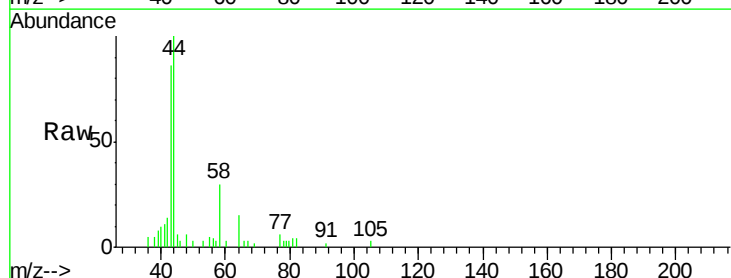
Acq: 14 Apr 2018 11:40

Tgt Ion: 43 Resp: 3411

Ion Ratio Lower Upper

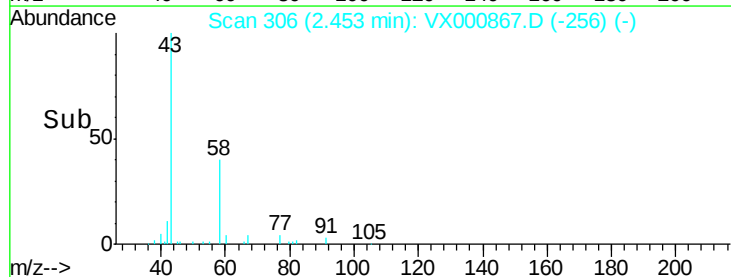
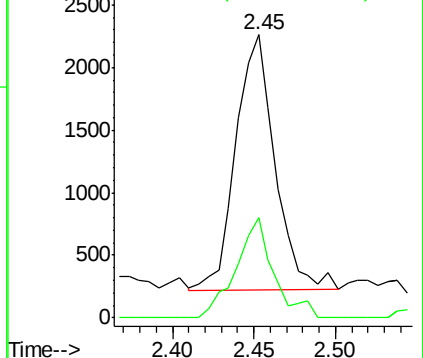
43 100

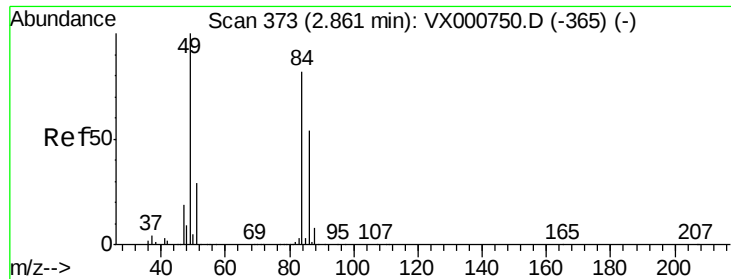
58 39.3 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#20

Methylene Chloride

Concen: 0.25 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

Z1TB02-180410

Tgt Ion: 84 Resp: 661

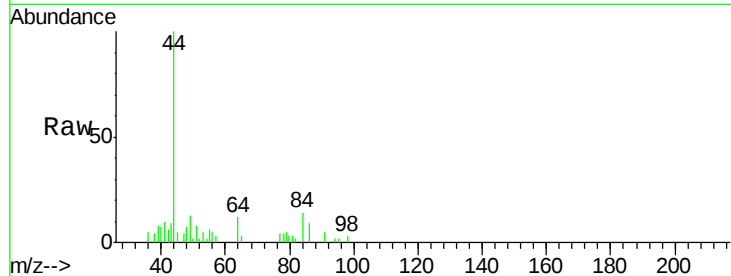
Ion Ratio Lower Upper

84 100

49 94.7 98.1 147.1#

51 32.1 28.9 43.3

86 66.9 52.7 79.1

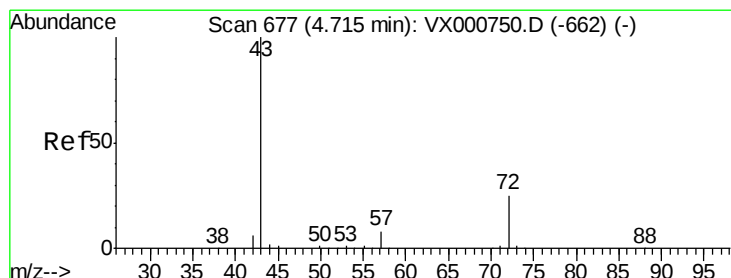
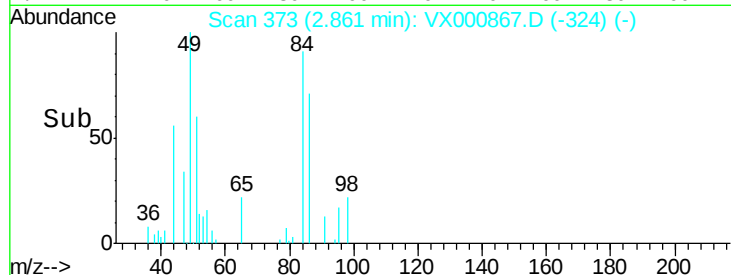
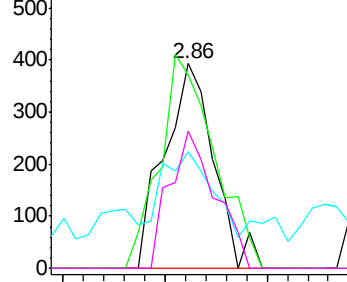


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 0.22 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.02 min

Lab File: VX000867.D

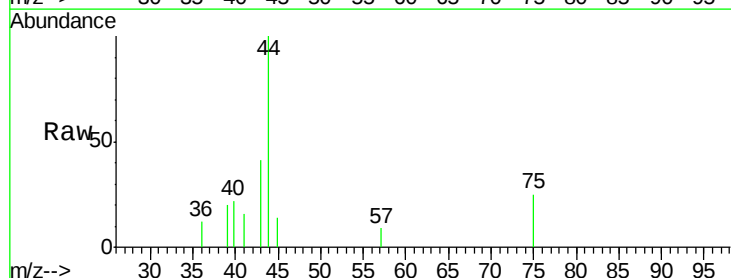
Acq: 14 Apr 2018 11:40

Tgt Ion: 43 Resp: 405

Ion Ratio Lower Upper

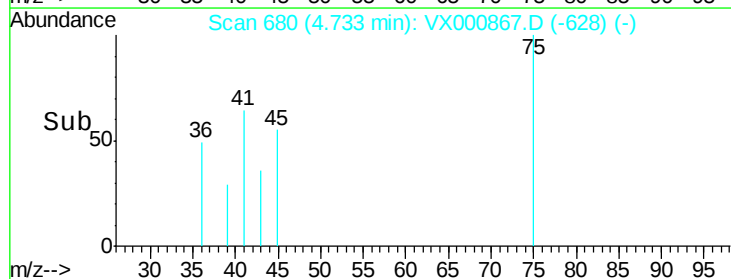
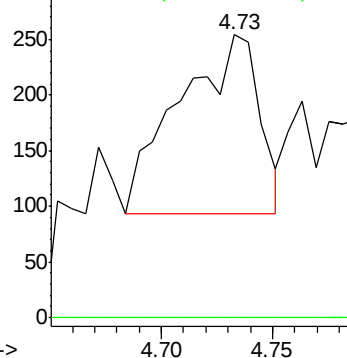
43 100

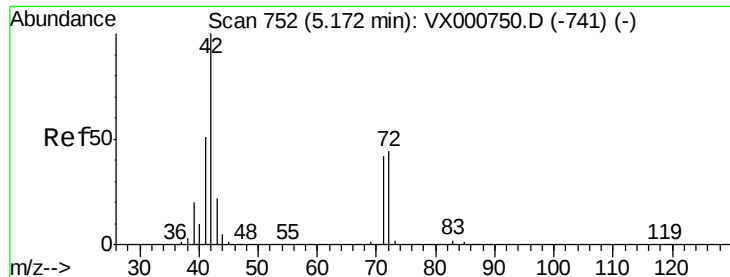
72 0.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.44 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

Z1TB02-180410

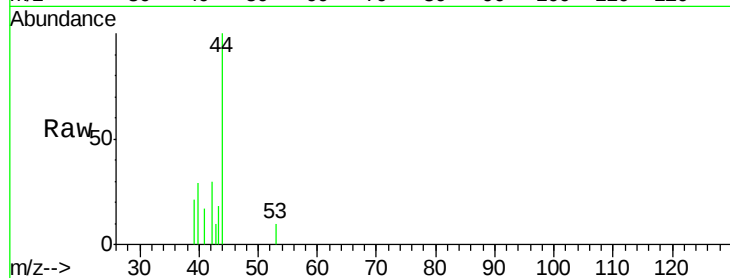
Tgt Ion: 42 Resp: 522

Ion Ratio Lower Upper

42 100

72 0.0 35.1 52.7#

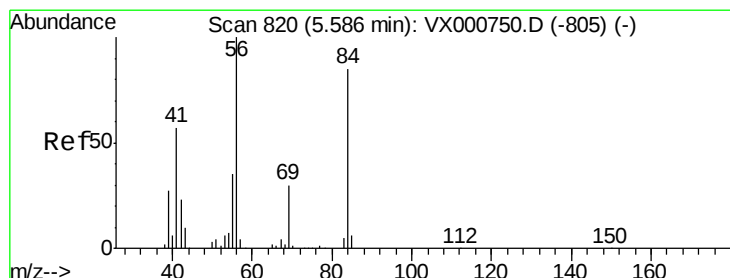
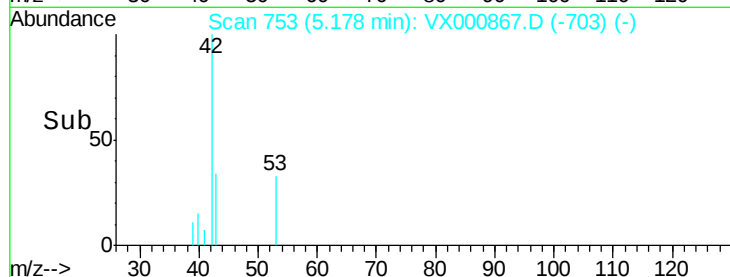
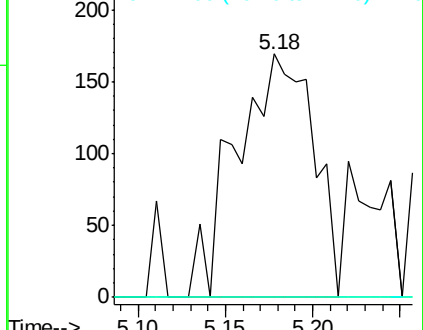
71 0.0 32.8 49.2#



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: 1.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.09 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

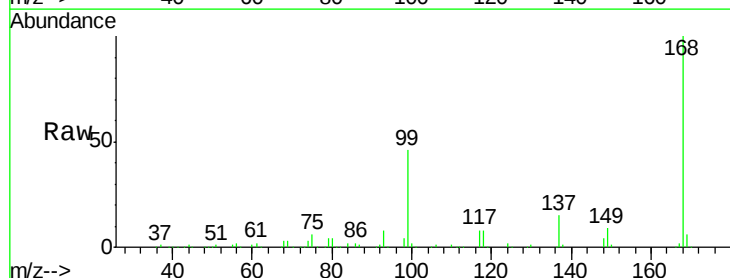
Tgt Ion: 56 Resp: 4295

Ion Ratio Lower Upper

56 100

69 162.3 24.2 36.4#

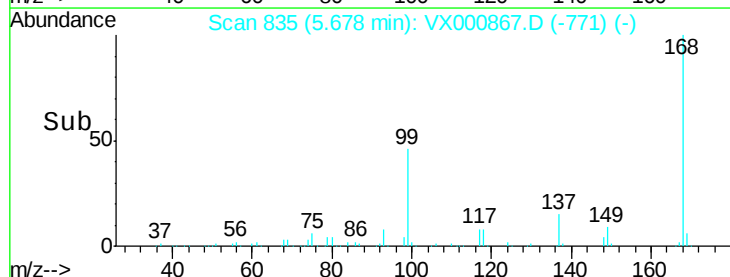
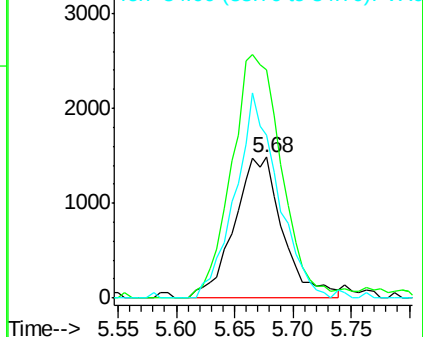
84 115.2 67.6 101.4#

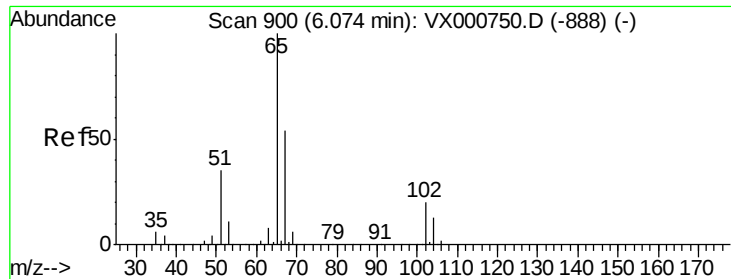


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

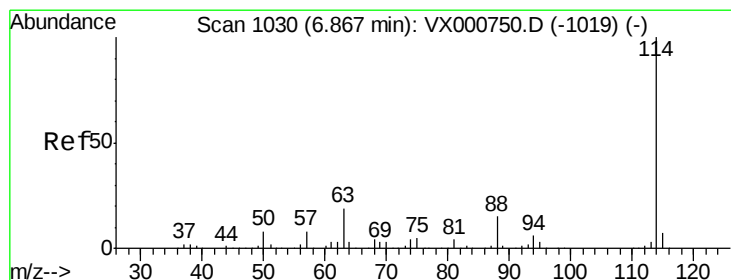
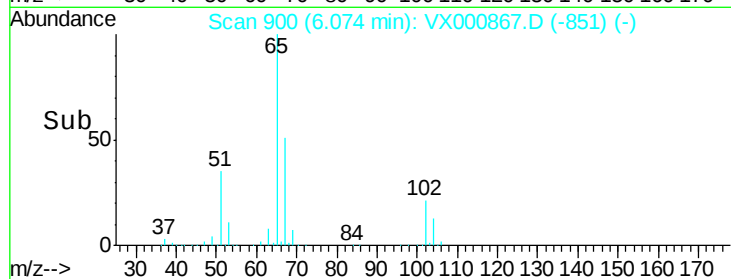
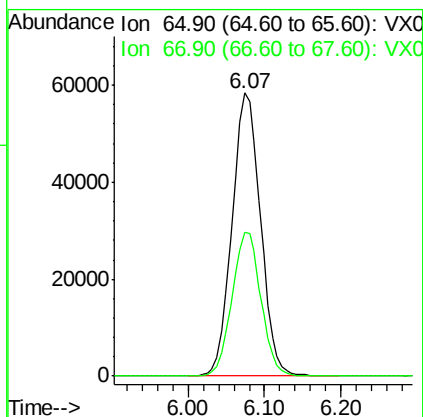
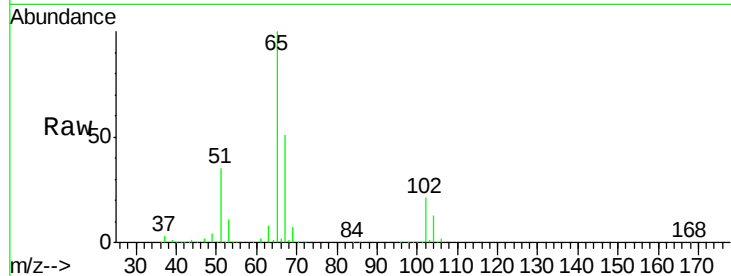




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.37 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. -0.00 min  
 Lab File: VX000867.D  
 Acq: 14 Apr 2018 11:40

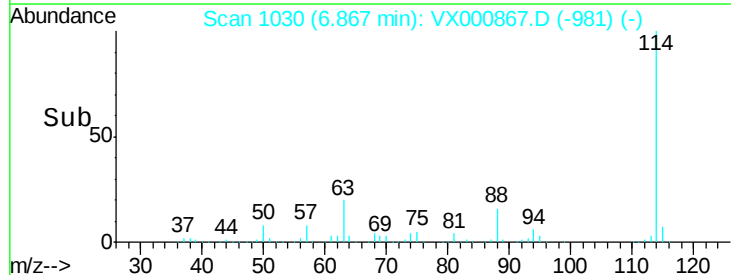
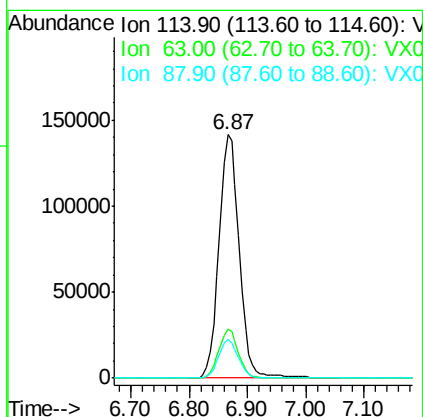
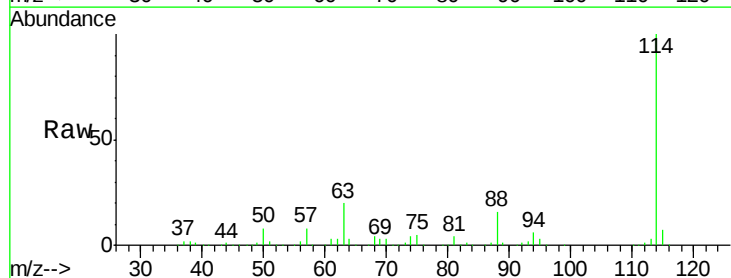
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z1TB02-180410

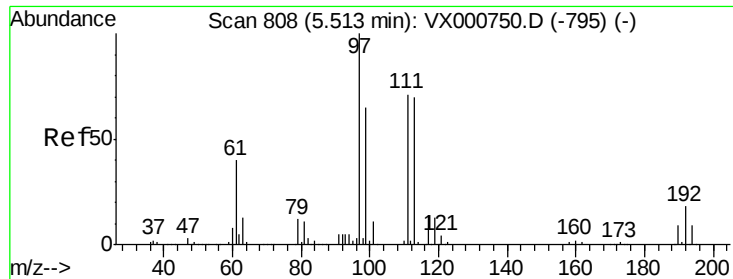
Tgt Ion: 65 Resp: 150706  
 Ion Ratio Lower Upper  
 65 100  
 67 51.3 0.0 103.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. -0.00 min  
 Lab File: VX000867.D  
 Acq: 14 Apr 2018 11:40

Tgt Ion: 114 Resp: 341802  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 38.4  
 88 15.8 0.0 31.0





#35

Dibromofluoromethane

Concen: 46.35 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

Z1TB02-180410

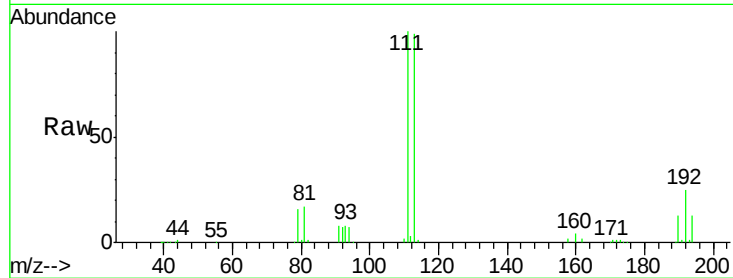
Tgt Ion:113 Resp: 122057

Ion Ratio Lower Upper

113 100

111 101.1 81.5 122.3

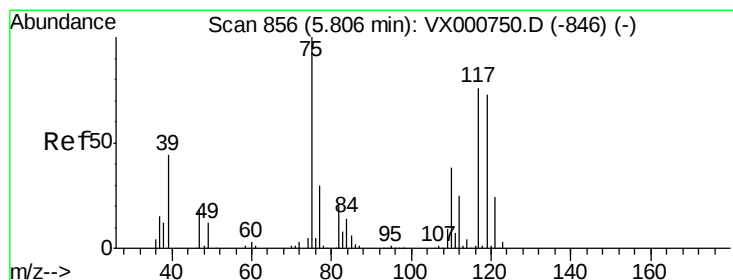
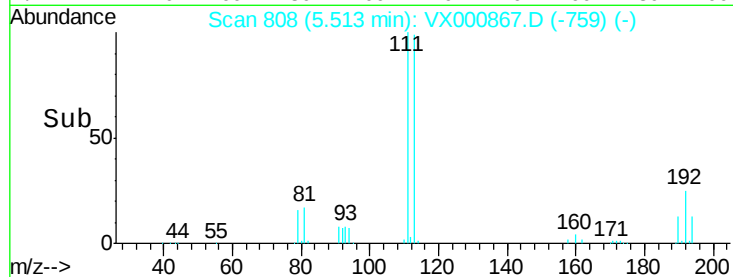
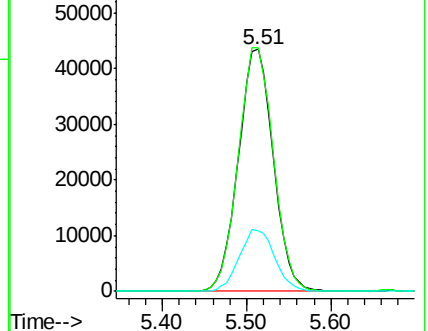
192 25.7 20.4 30.6



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: 4.12 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

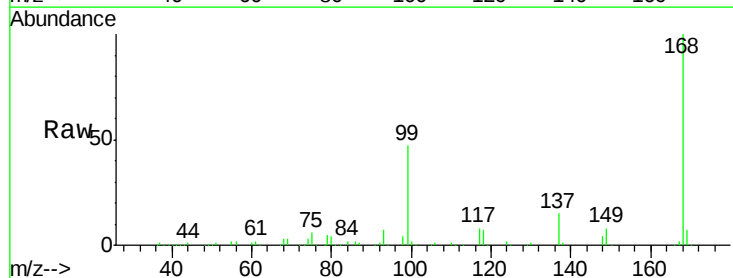
Tgt Ion: 75 Resp: 15502

Ion Ratio Lower Upper

75 100

110 9.5 19.2 57.6#

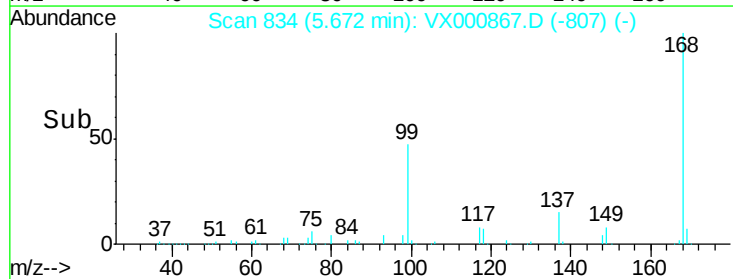
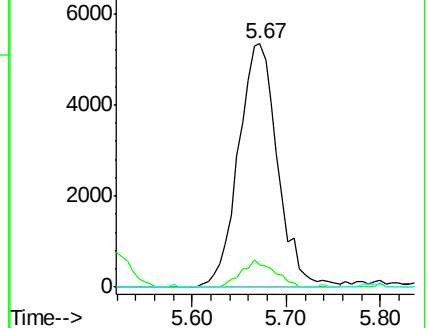
77 0.0 25.4 38.2#

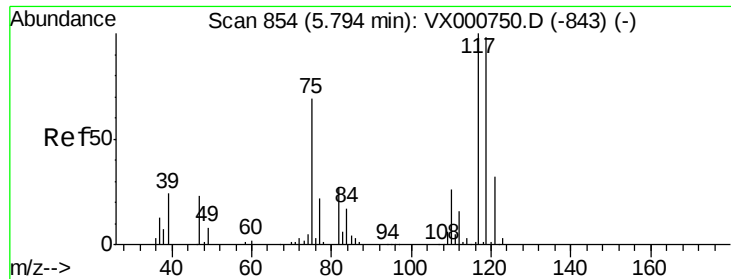


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.17 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

Z1TB02-180410

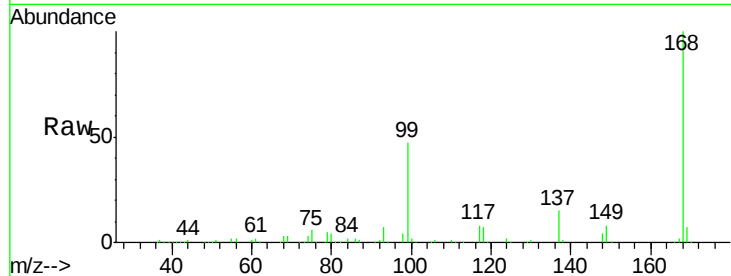
Tgt Ion:117 Resp: 21799

Ion Ratio Lower Upper

117 100

119 5.6 78.4 117.6#

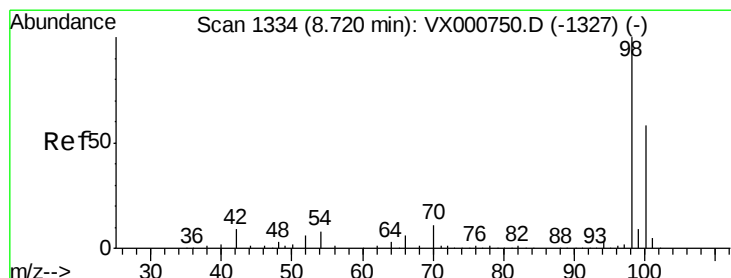
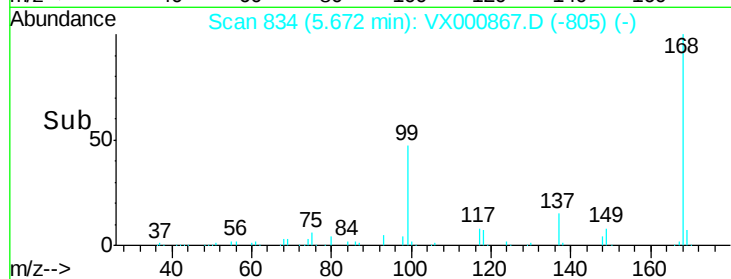
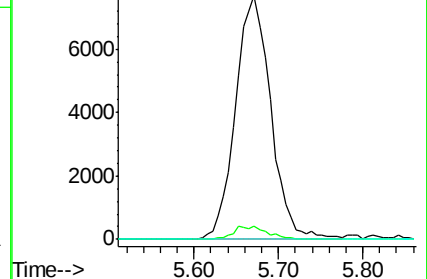
121 0.0 25.4 38.0#



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



#50

Toluene-d8

Concen: 48.34 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX000867.D

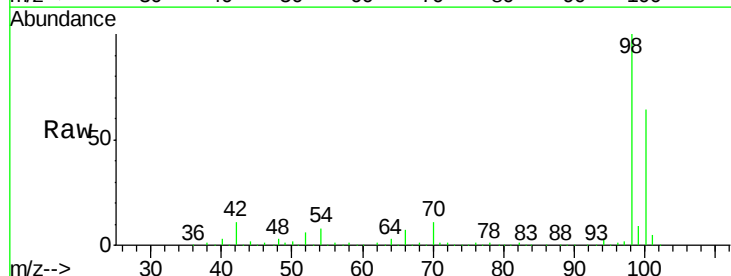
Acq: 14 Apr 2018 11:40

Tgt Ion: 98 Resp: 473964

Ion Ratio Lower Upper

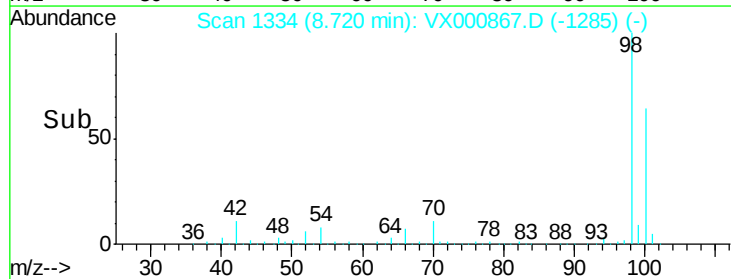
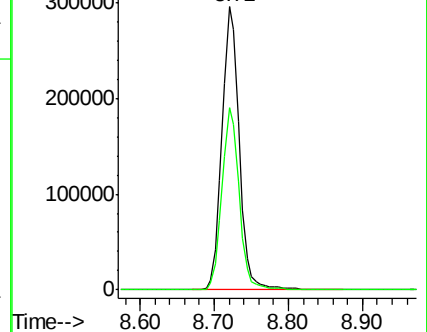
98 100

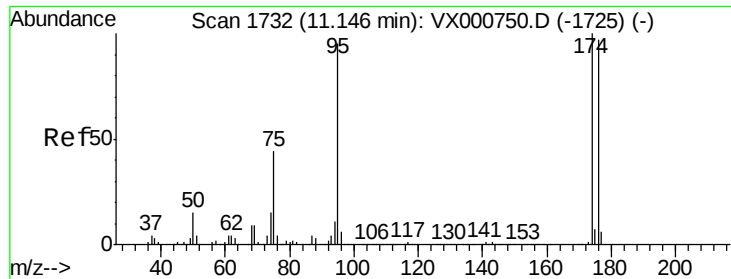
100 64.1 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.76 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

Z1TB02-180410

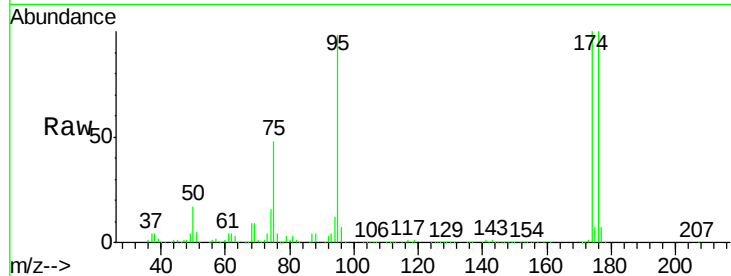
Tgt Ion: 95 Resp: 181593

Ion Ratio Lower Upper

95 100

174 97.7 0.0 198.4

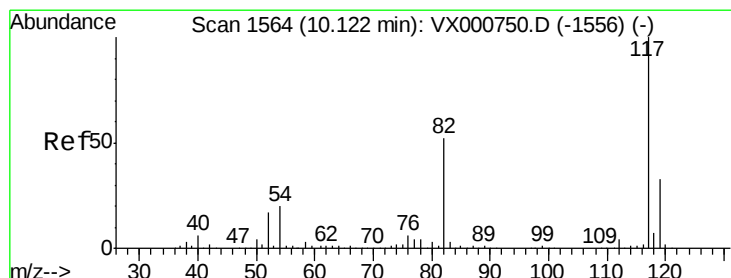
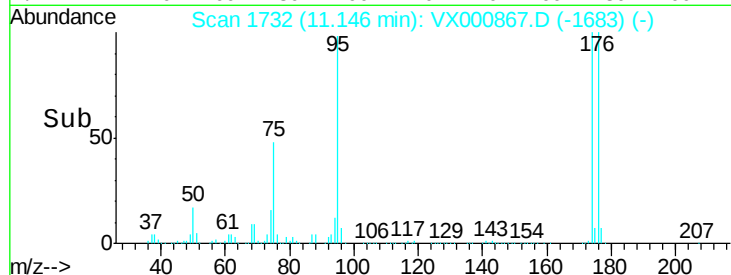
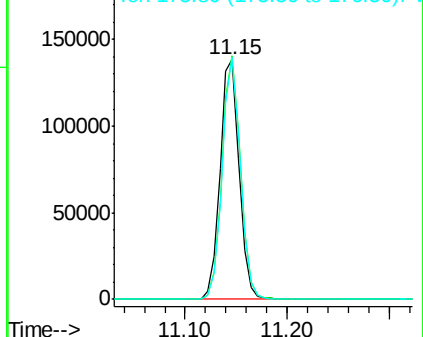
176 96.0 0.0 194.4



Abundance Ion 94.90 (94.60 to 95.60): VX000867.D (-1725) (-)

Ion 173.80 (173.50 to 174.50): VX000867.D (-1725) (-)

Ion 175.80 (175.50 to 176.50): VX000867.D (-1725) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

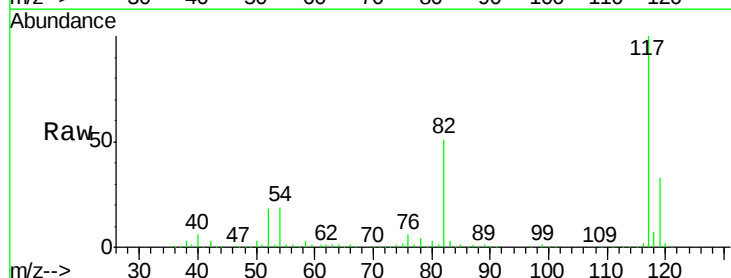
Tgt Ion: 117 Resp: 310914

Ion Ratio Lower Upper

117 100

82 51.2 41.9 62.9

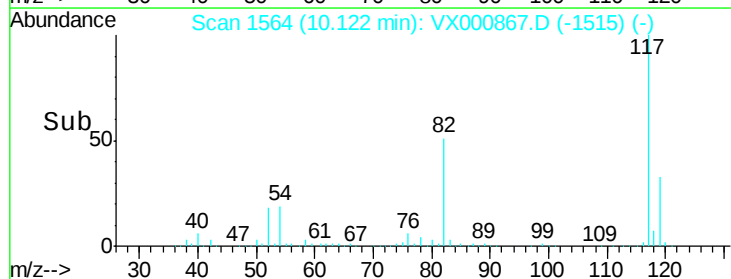
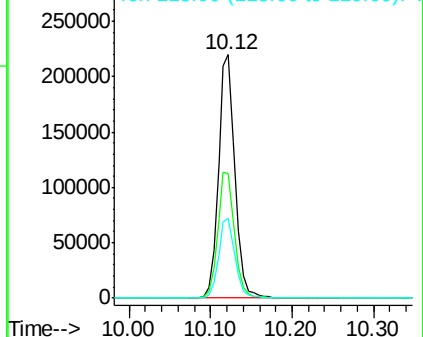
119 32.8 26.0 39.0

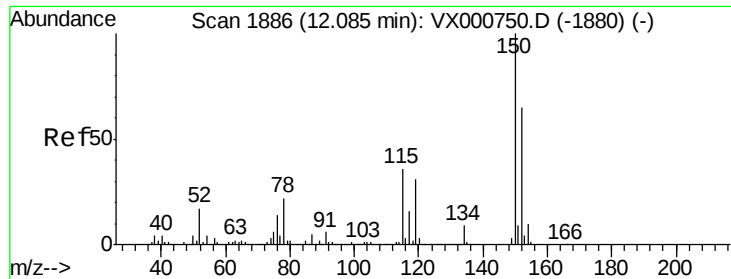


Abundance Ion 116.90 (116.60 to 117.60): VX000867.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX000867.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX000867.D (-1556) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

Z1TB02-180410

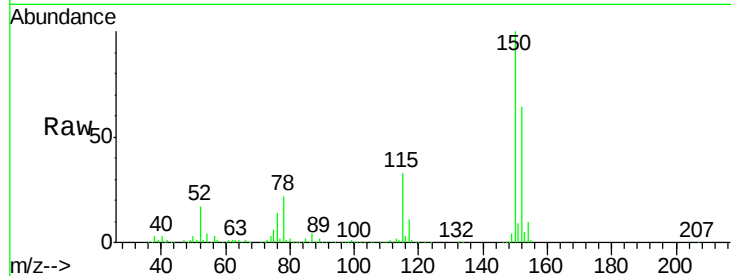
Tgt Ion:152 Resp: 203161

Ion Ratio Lower Upper

152 100

115 53.3 37.9 113.7

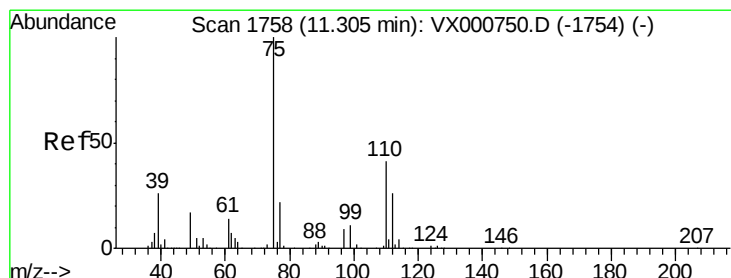
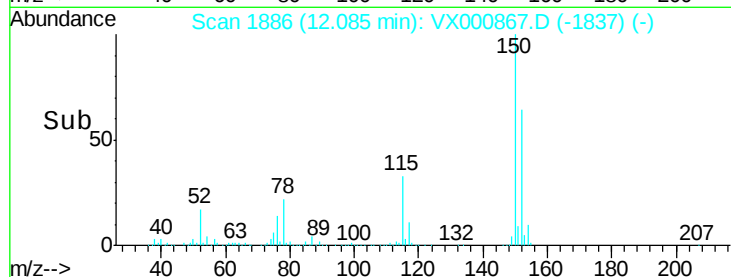
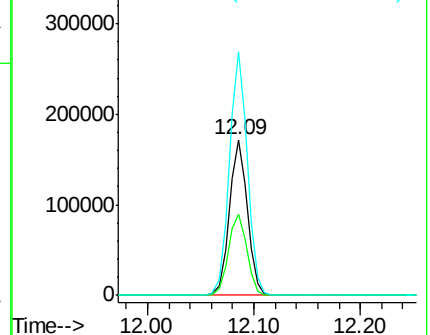
150 156.3 0.0 348.0



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: 25.68 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000867.D

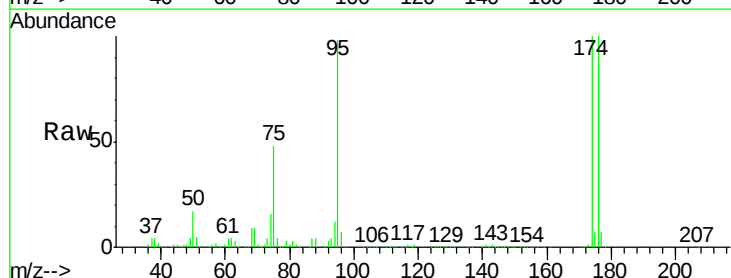
Acq: 14 Apr 2018 11:40

Tgt Ion: 75 Resp: 89959

Ion Ratio Lower Upper

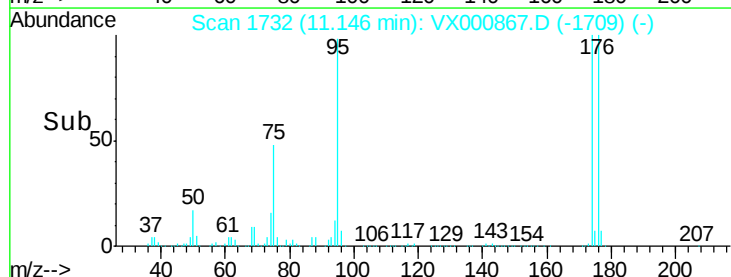
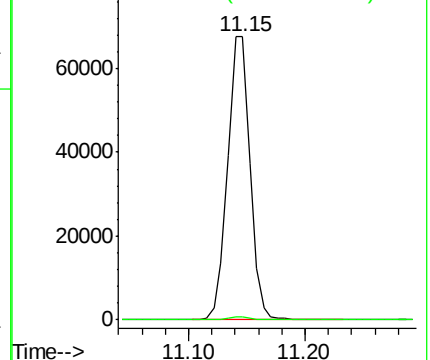
75 100

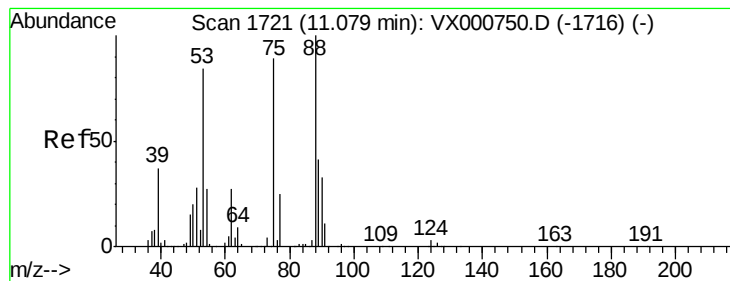
77 1.1 20.5 61.5#



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: 70.63 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.07 min

Lab File: VX000867.D

Acq: 14 Apr 2018 11:40

Instrument :

MSVOA\_X

ClientSampleId :

Z1TB02-180410

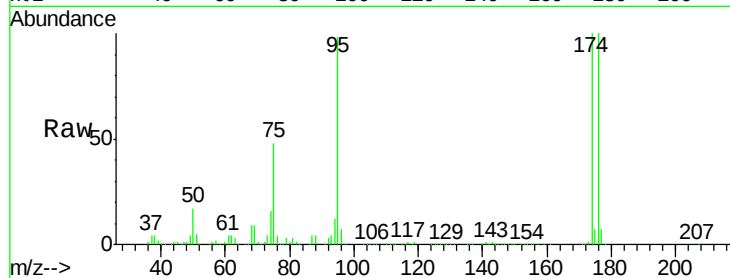
Tgt Ion: 75 Resp: 89959

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 40.9 61.3#



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

