

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX051118\  
 Data File : VX001637.D  
 Acq On : 11 May 2018 13:53  
 Operator : JC/MD  
 Sample : VX0511WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0511WBL02

Quant Time: May 12 03:33:04 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sun May 06 07:59:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 244204   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 326186   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 274327   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 137878   | 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   | 193969   | 55.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.52% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 153577   | 52.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.86% |          |
| 50) Toluene-d8              | 8.72  | 98   | 546561   | 51.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.22% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 171817   | 42.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.52%  |          |

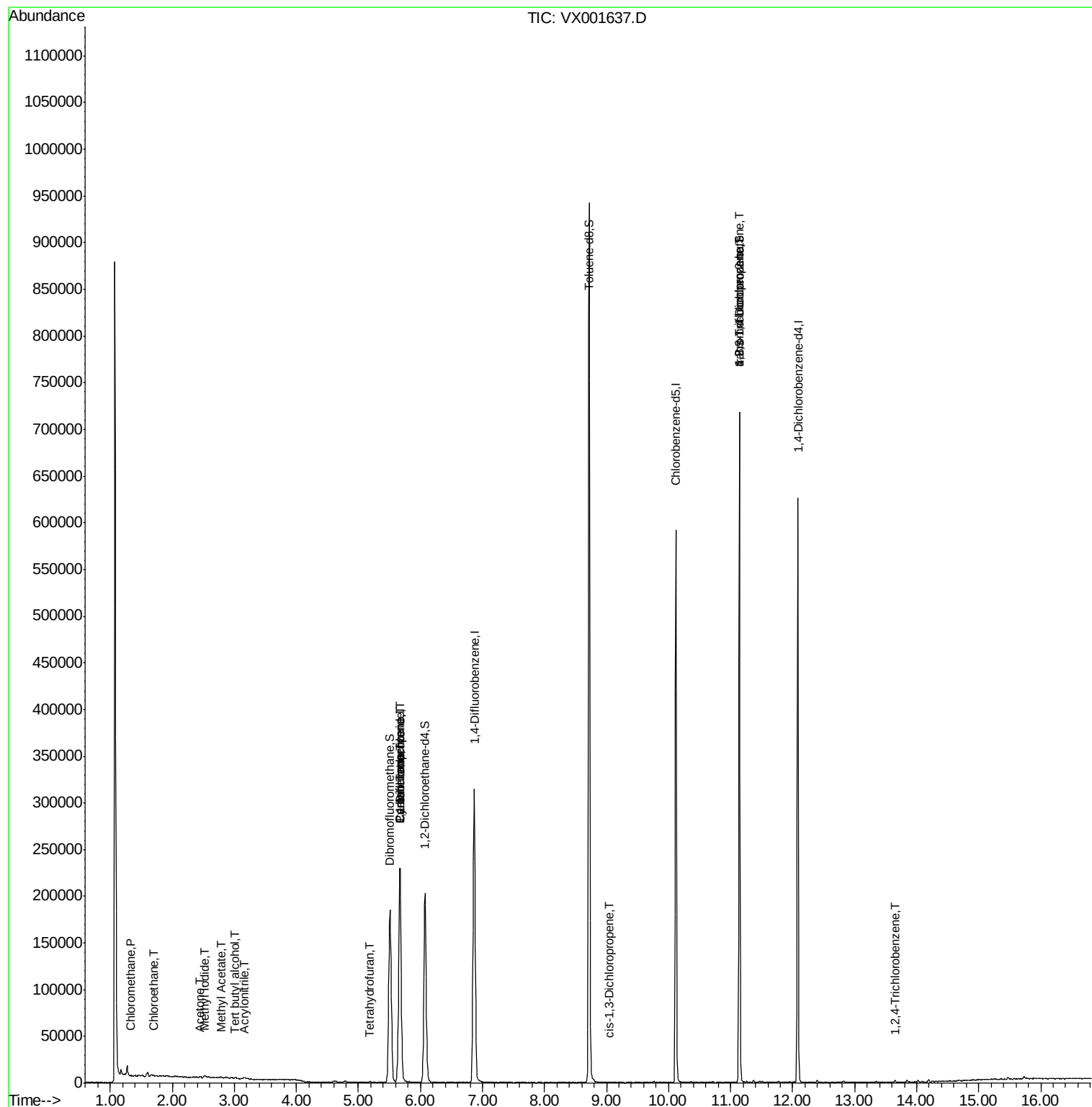
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 743      | 0.23      | ug/l   | 89     |
| 5) Bromomethane                | 1.65  | 94   | 1571     | Below Cal |        | 100    |
| 6) Chloroethane                | 1.70  | 64   | 1130     | 0.51      | ug/l # | 43     |
| 10) Methyl Iodide              | 2.53  | 142  | 2487     | 0.58      | ug/l   | 95     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 683      | 0.92      | ug/l # | 81     |
| 13) Acrolein                   | 2.31  | 56   | 146      | Below Cal | #      | 1      |
| 15) Acrylonitrile              | 3.15  | 53   | 701      | 0.42      | ug/l # | 60     |
| 16) Acetone                    | 2.45  | 43   | 778      | 0.49      | ug/l # | 61     |
| 18) Methyl Acetate             | 2.78  | 43   | 937      | 0.22      | ug/l   | 98     |
| 29) Tetrahydrofuran            | 5.18  | 42   | 1022     | 0.69      | ug/l # | 86     |
| 31) Cyclohexane                | 5.67  | 56   | 4262     | 0.94      | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 15039    | 3.62      | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 20596    | 4.65      | ug/l # | 16     |
| 54) cis-1,3-Dichloropropene    | 9.04  | 75   | 198      | 2.30      | ug/l # | 52     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 84761    | 30.31     | ug/l # | 38     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 84761    | 92.64     | ug/l # | 7      |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 807      | 0.22      | ug/l   | 90     |

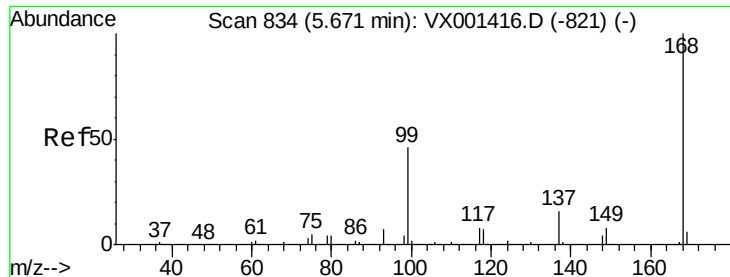
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX051118\  
Data File : VX001637.D  
Acq On : 11 May 2018 13:53  
Operator : JC/MD  
Sample : VX0511WBL01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0511WBL02

Quant Time: May 12 03:33:04 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
Quant Title : SW846 8260  
QLast Update : Sun May 06 07:59:25 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: VX001637.D

Acq: 11 May 2018 13:53

Instrument :

MSVOA\_X

ClientSampleId :

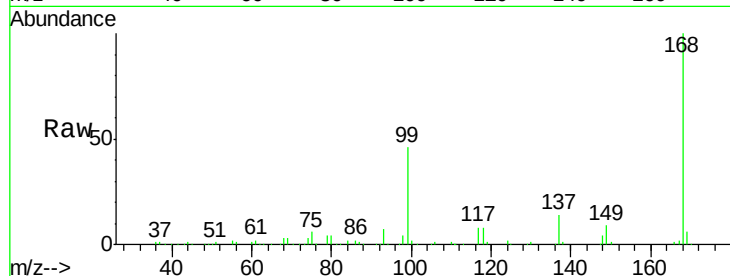
VX0511WBL02

Tgt Ion:168 Resp: 244204

Ion Ratio Lower Upper

168 100

99 46.5 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

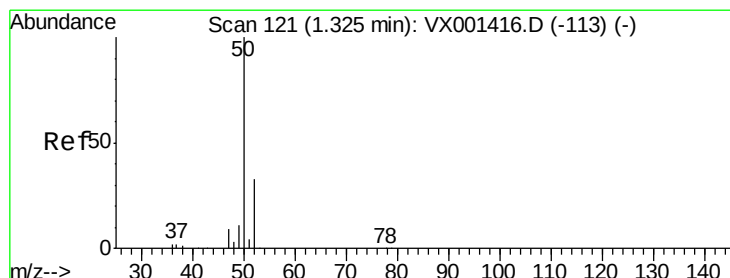
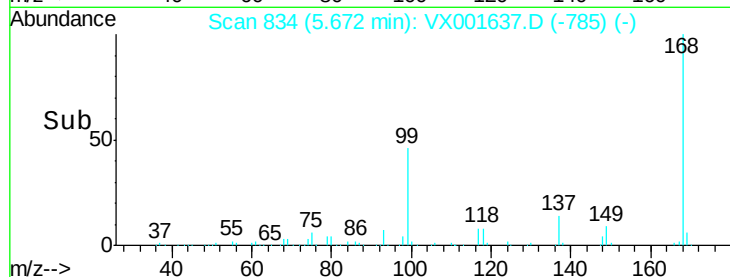
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.23 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX001637.D

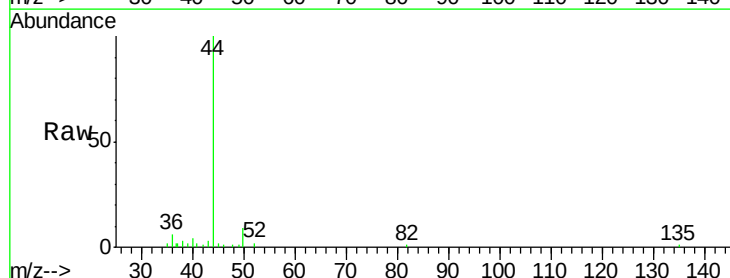
Acq: 11 May 2018 13:53

Tgt Ion: 50 Resp: 743

Ion Ratio Lower Upper

50 100

52 26.8 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

500

400

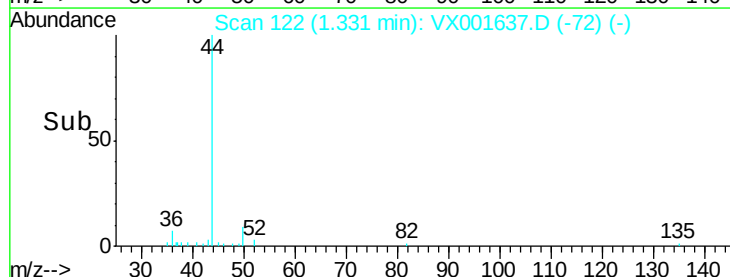
300

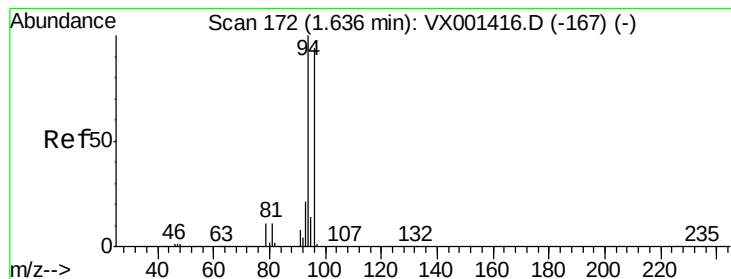
200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

Instrument :

MSVOA\_X

ClientSampleId :

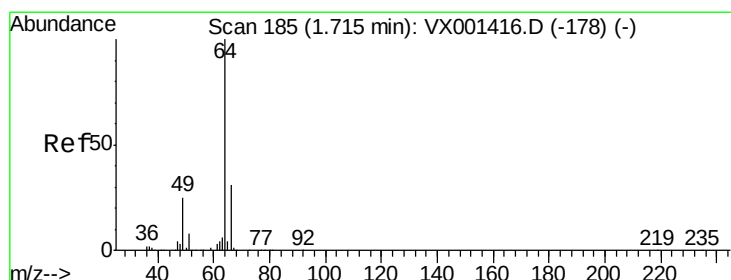
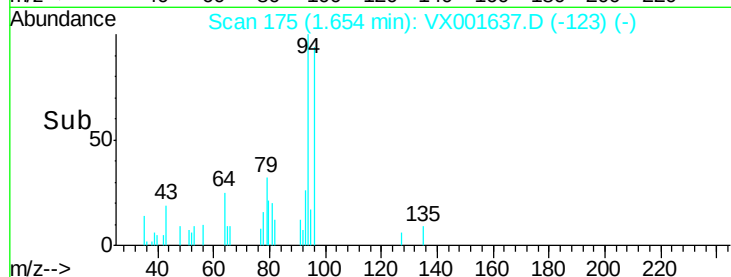
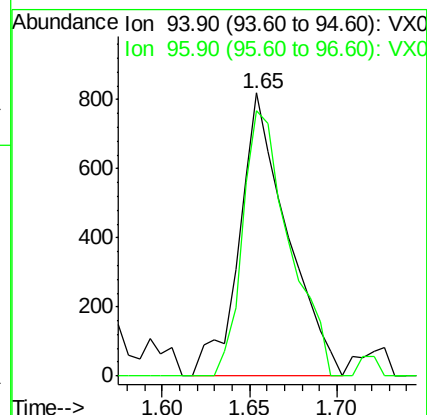
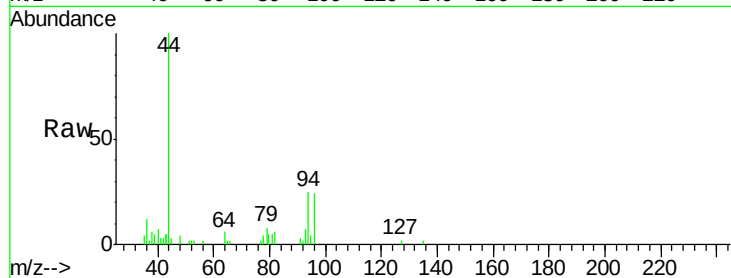
VX0511WBL02

Tgt Ion: 94 Resp: 1571

Ion Ratio Lower Upper

94 100

96 93.8 75.0 112.6



#6

Chloroethane

Concen: 0.51 ug/l

RT: 1.70 min Scan# 182

Delta R.T. -0.02 min

Lab File: VX001637.D

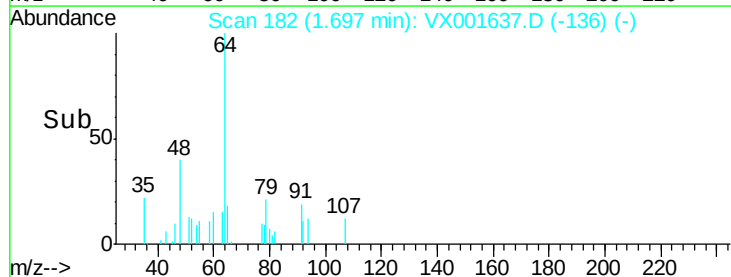
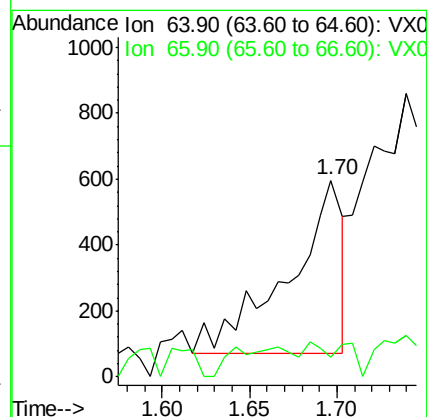
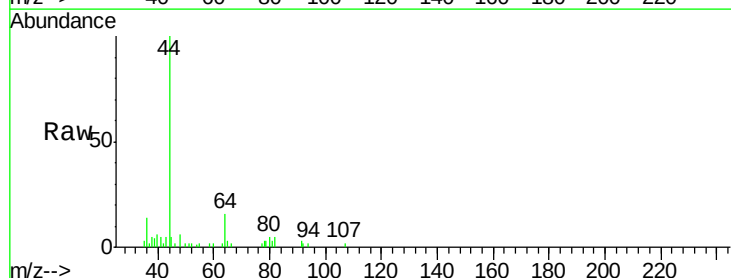
Acq: 11 May 2018 13:53

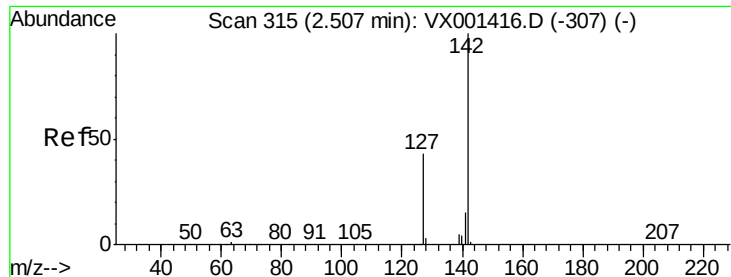
Tgt Ion: 64 Resp: 1130

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#

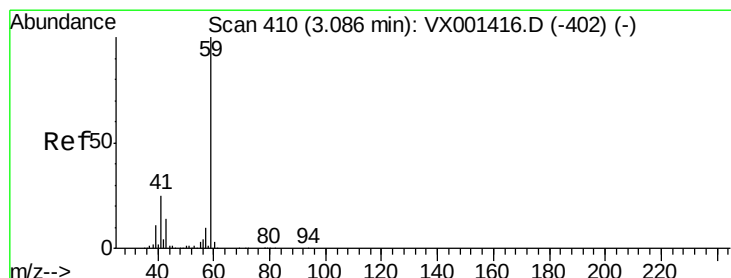
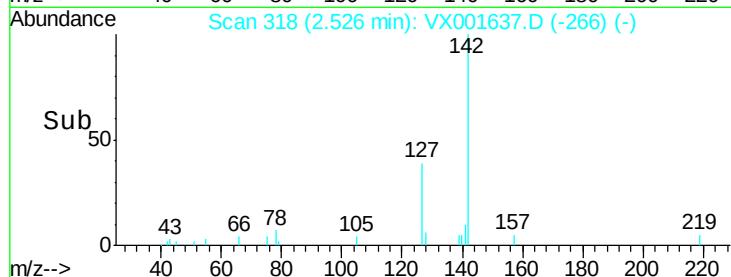
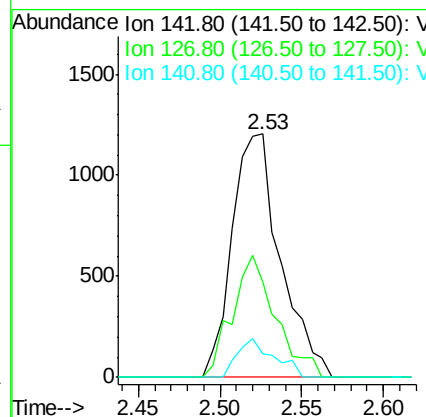
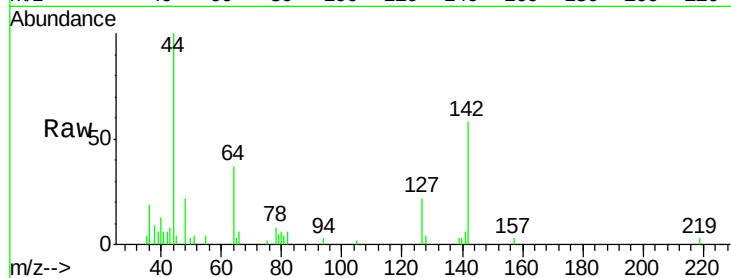




#10  
Methyl Iodide  
Concen: 0.58 ug/l  
RT: 2.53 min Scan# 318  
Delta R.T. 0.02 min  
Lab File: VX001637.D  
Acq: 11 May 2018 13:53

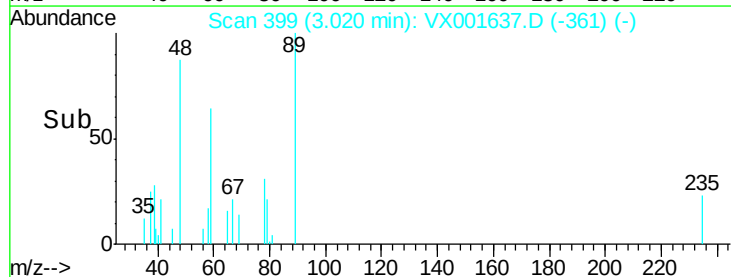
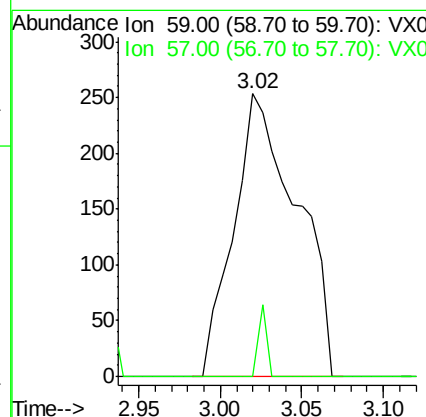
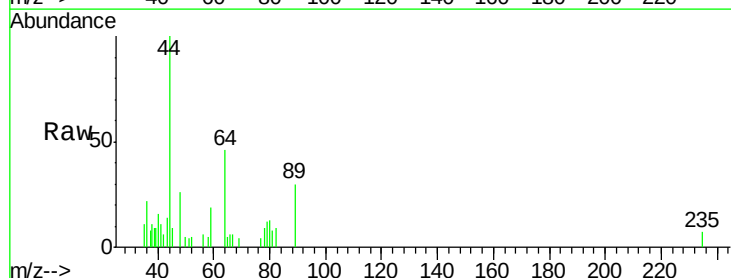
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0511WBL02

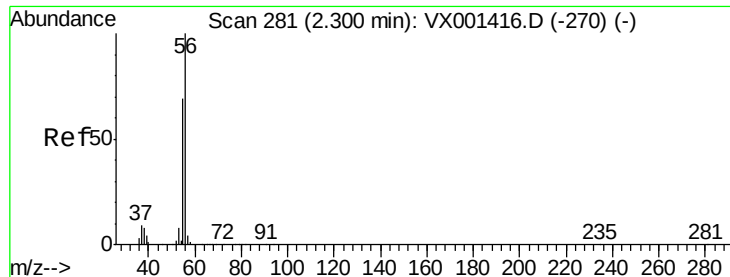
Tgt Ion:142 Resp: 2487  
Ion Ratio Lower Upper  
142 100  
127 44.8 33.6 50.4  
141 11.8 11.4 17.2



#11  
Tert butyl alcohol  
Concen: 0.92 ug/l  
RT: 3.02 min Scan# 399  
Delta R.T. -0.07 min  
Lab File: VX001637.D  
Acq: 11 May 2018 13:53

Tgt Ion: 59 Resp: 683  
Ion Ratio Lower Upper  
59 100  
57 3.4 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

Instrument :

MSVOA\_X

ClientSampleId :

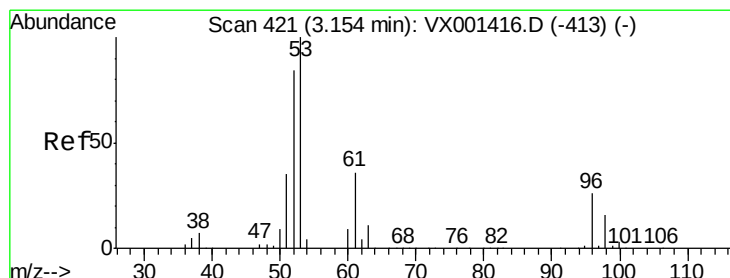
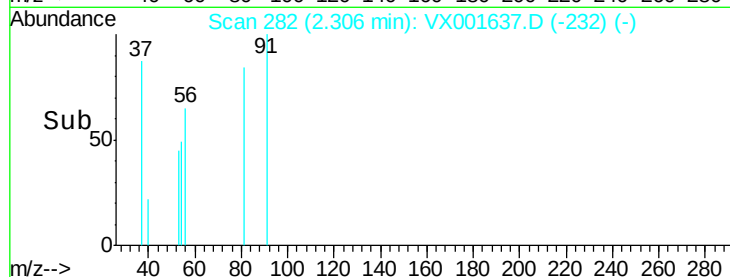
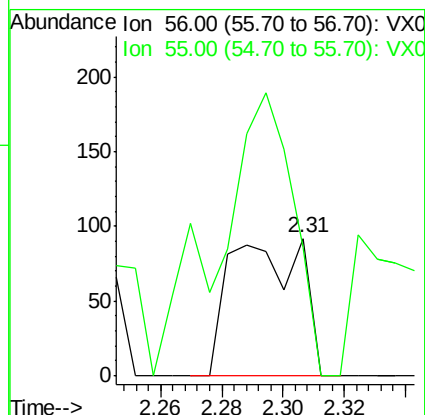
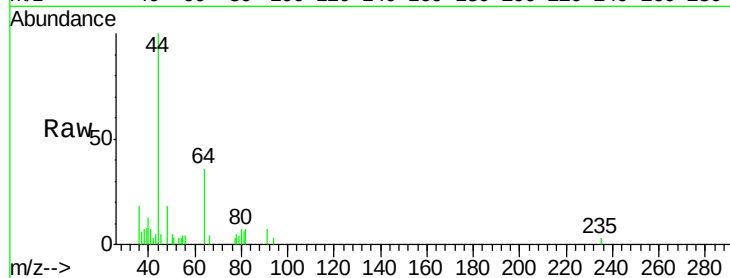
VX0511WBL02

Tgt Ion: 56 Resp: 146

Ion Ratio Lower Upper

56 100

55 221.9 54.5 81.7#



#15

Acrylonitrile

Concen: 0.42 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

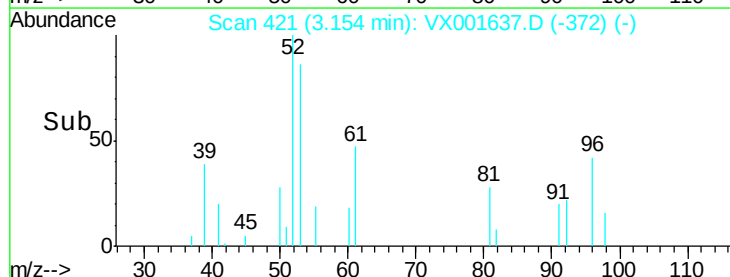
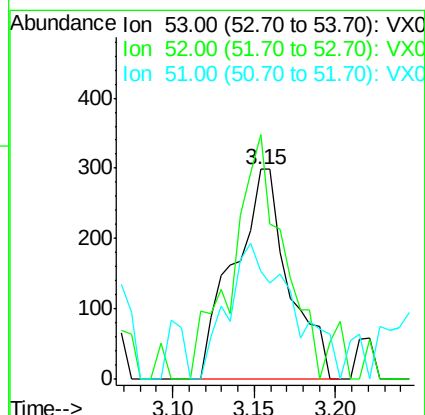
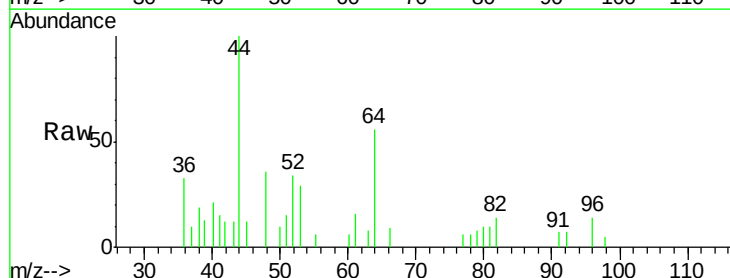
Tgt Ion: 53 Resp: 701

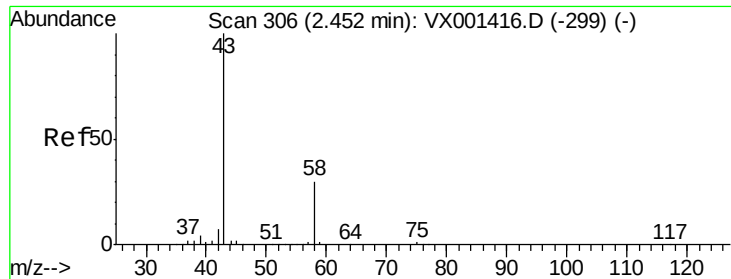
Ion Ratio Lower Upper

53 100

52 107.3 66.2 99.2#

51 75.5 28.6 43.0#





#16

Acetone

Concen: 0.49 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

Instrument :

MSVOA\_X

ClientSampleId :

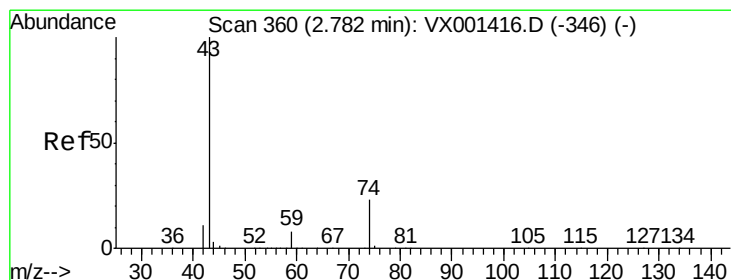
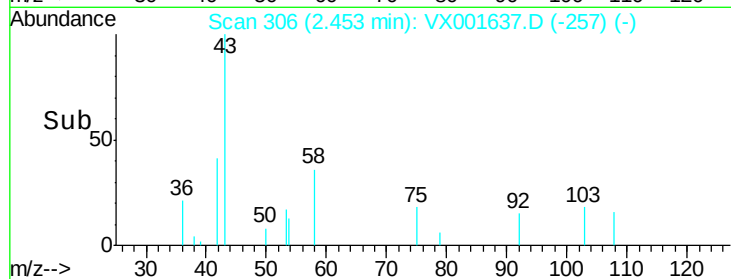
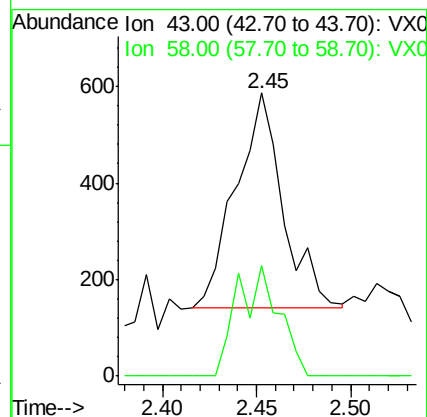
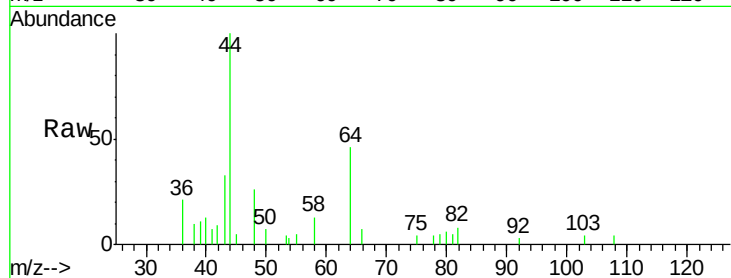
VX0511WBL02

Tgt Ion: 43 Resp: 778

Ion Ratio Lower Upper

43 100

58 51.1 23.8 35.8#



#18

Methyl Acetate

Concen: 0.22 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX001637.D

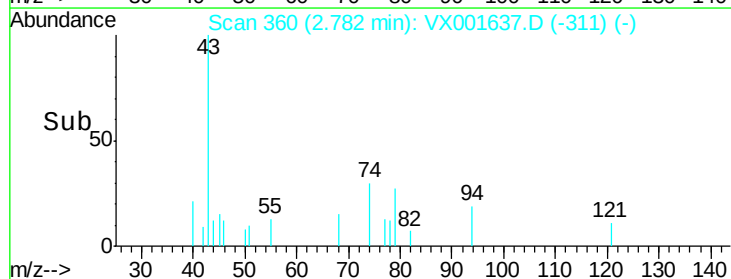
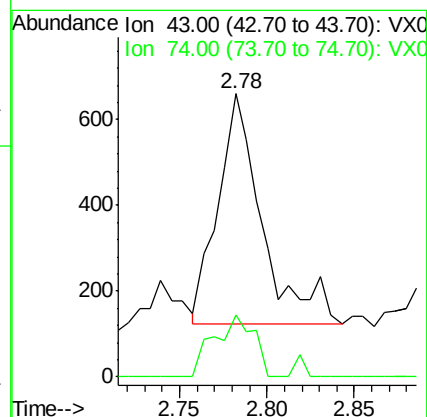
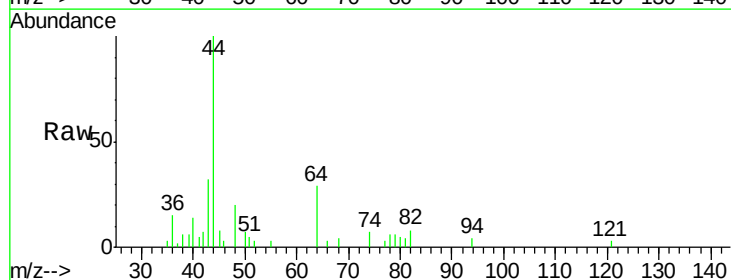
Acq: 11 May 2018 13:53

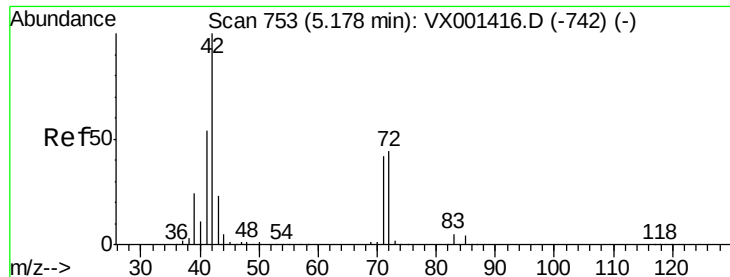
Tgt Ion: 43 Resp: 937

Ion Ratio Lower Upper

43 100

74 24.1 18.6 27.8





#29

Tetrahydrofuran

Concen: 0.69 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.00 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

Instrument :

MSVOA\_X

ClientSampleId :

VX0511WBL02

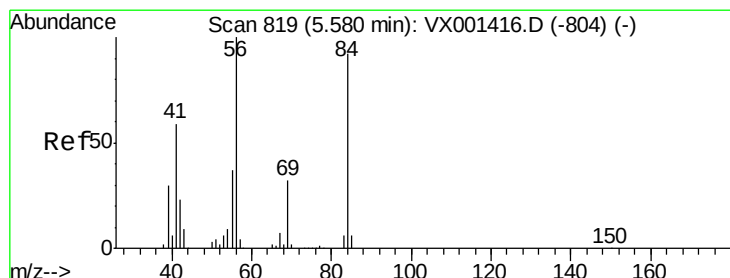
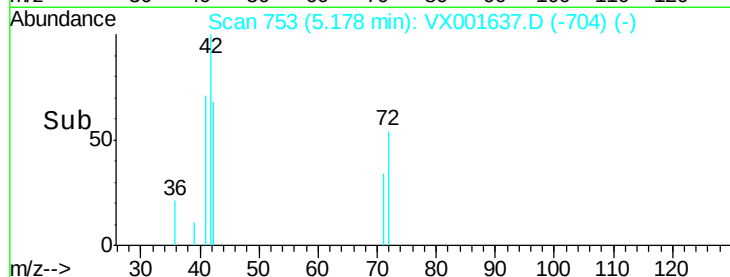
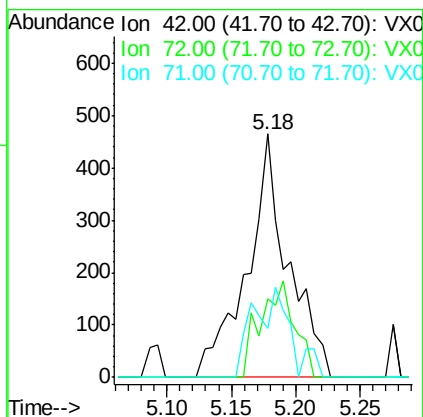
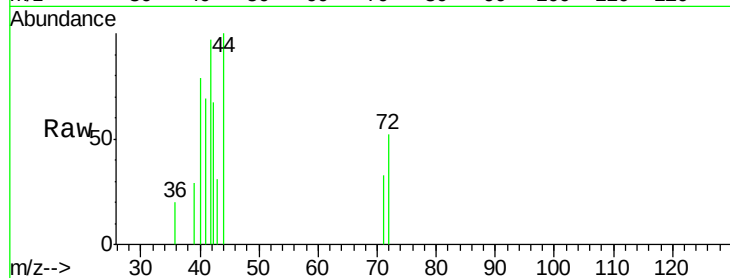
Tgt Ion: 42 Resp: 1022

Ion Ratio Lower Upper

42 100

72 33.5 35.4 53.2#

71 33.9 33.0 49.4



#31

Cyclohexane

Concen: 0.94 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

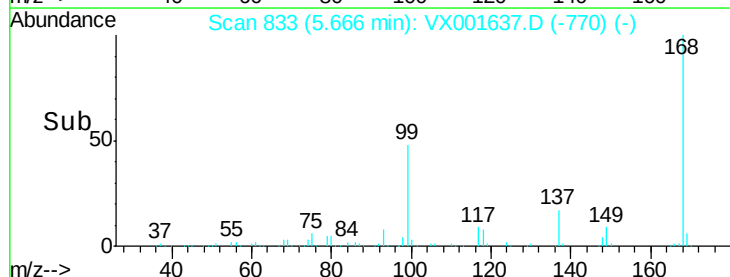
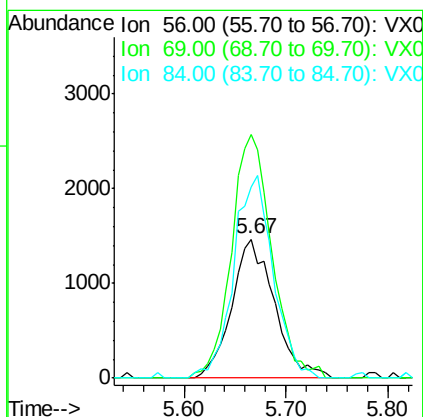
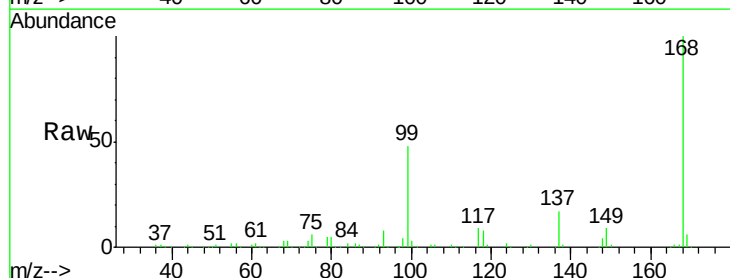
Tgt Ion: 56 Resp: 4262

Ion Ratio Lower Upper

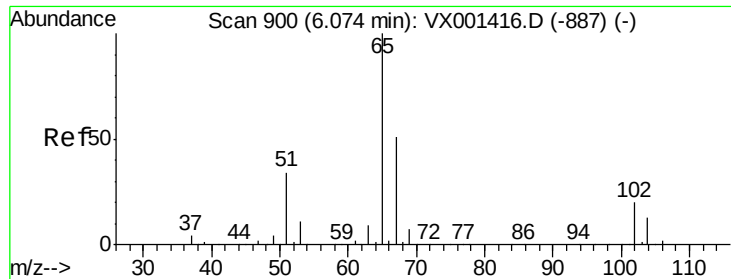
56 100

69 175.3 25.4 38.0#

84 137.3 73.8 110.8#



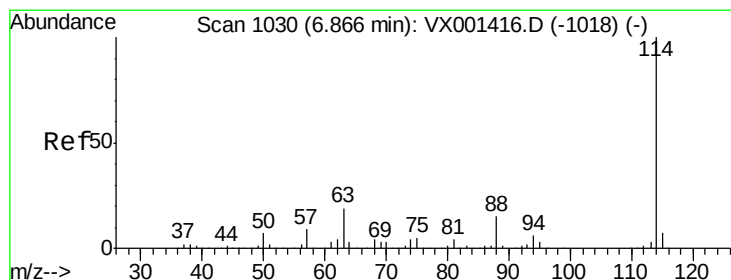
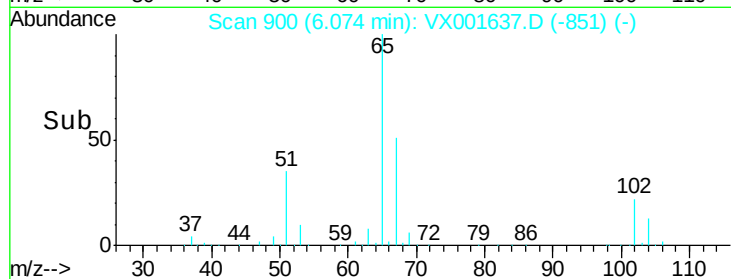
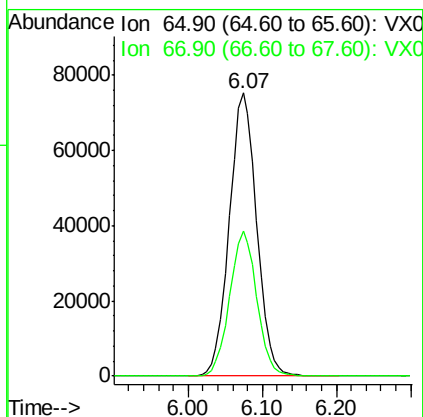
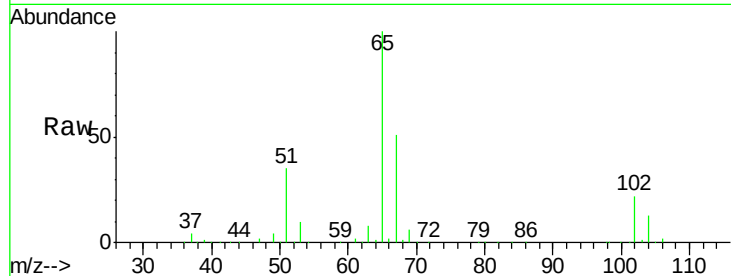




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.26 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: VX001637.D  
 Acq: 11 May 2018 13:53

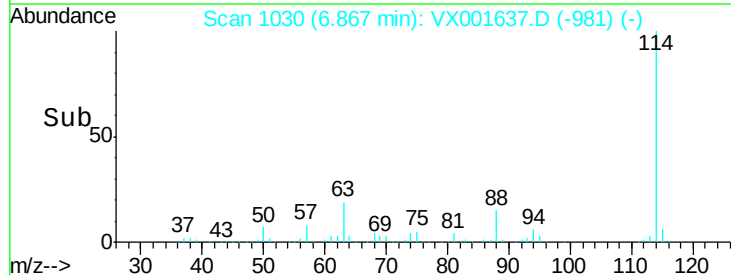
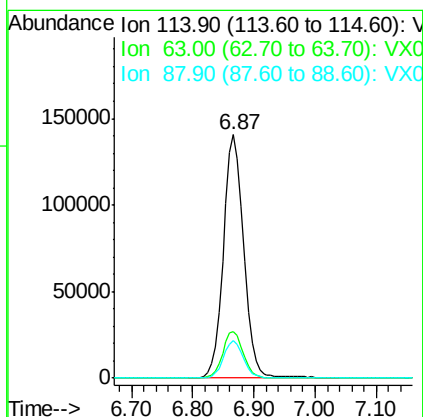
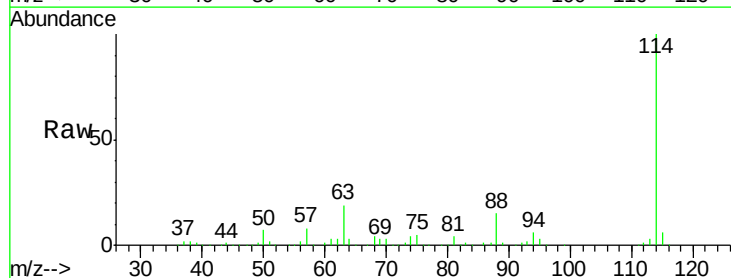
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0511WBL02

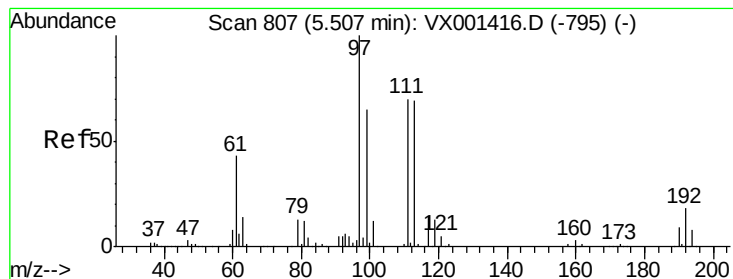
Tgt Ion: 65 Resp: 193969  
 Ion Ratio Lower Upper  
 65 100  
 67 50.9 0.0 101.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX001637.D  
 Acq: 11 May 2018 13:53

Tgt Ion: 114 Resp: 326186  
 Ion Ratio Lower Upper  
 114 100  
 63 19.0 0.0 38.6  
 88 15.2 0.0 30.8





#35

Dibromofluoromethane

Concen: 52.93 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

Instrument :

MSVOA\_X

ClientSampleId :

VX0511WBL02

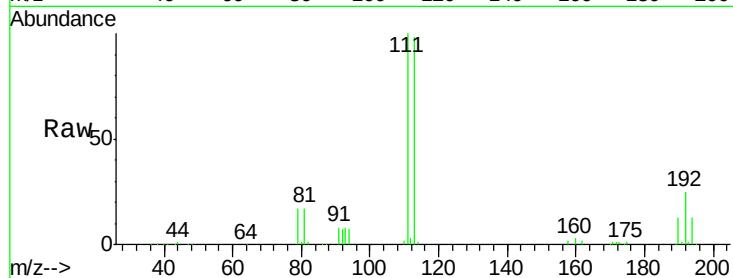
Tgt Ion:113 Resp: 153577

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.2

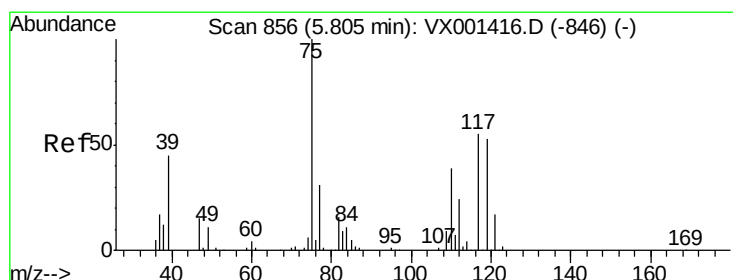
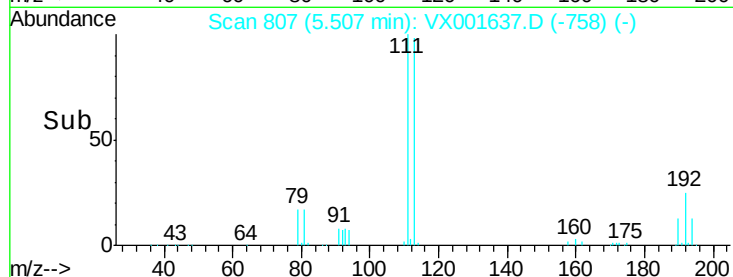
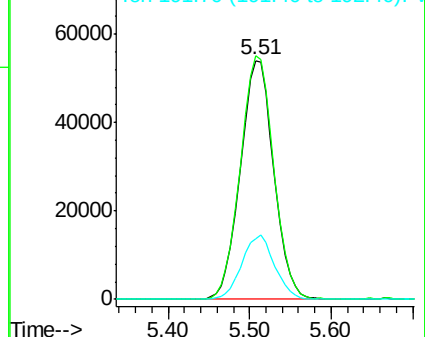
192 26.3 21.4 32.0



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: 3.62 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

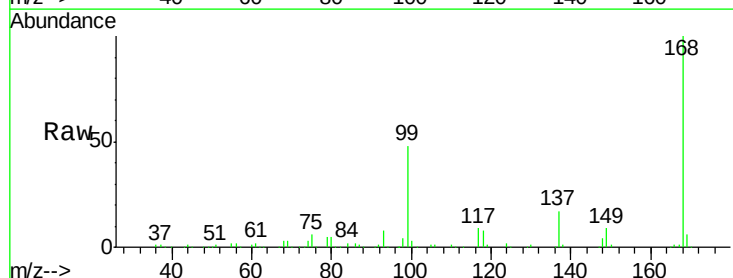
Tgt Ion: 75 Resp: 15039

Ion Ratio Lower Upper

75 100

110 9.8 18.9 56.7#

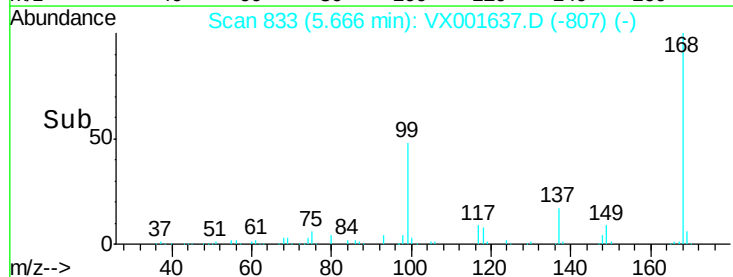
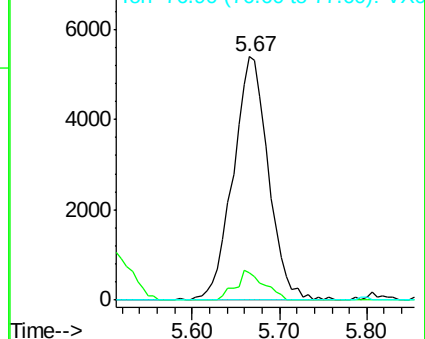
77 0.0 24.9 37.3#

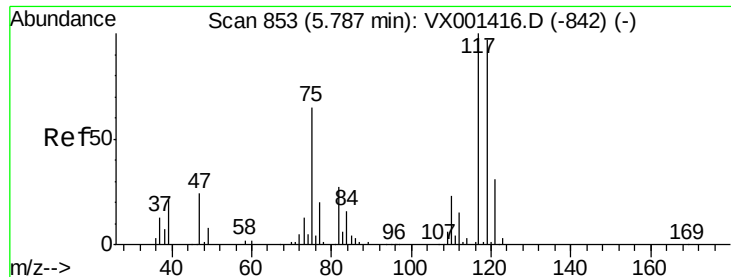


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.65 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

Instrument :

MSVOA\_X

ClientSampleId :

VX0511WBL02

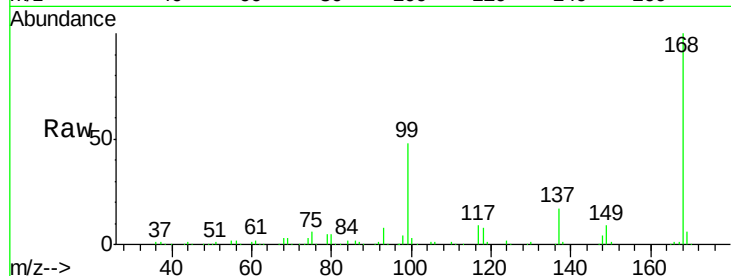
Tgt Ion: 117 Resp: 20596

Ion Ratio Lower Upper

117 100

119 5.8 77.0 115.6#

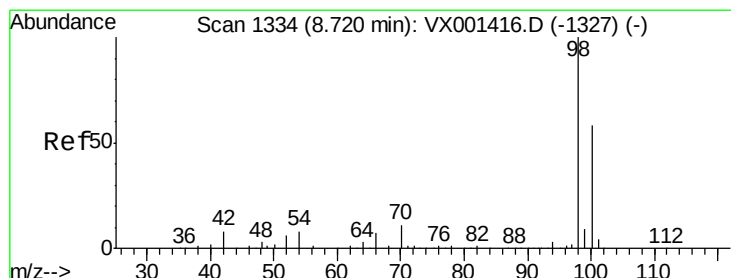
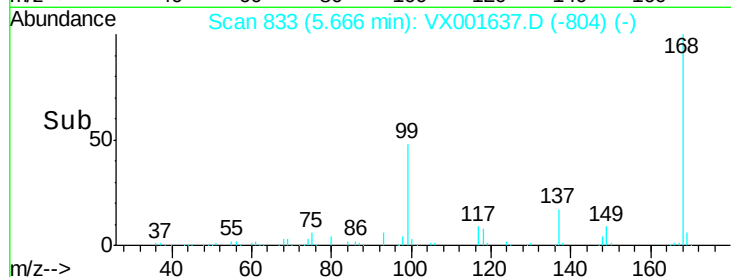
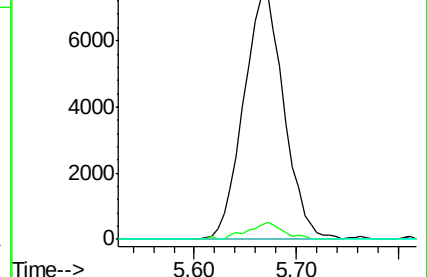
121 0.0 25.1 37.7#



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: 51.61 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001637.D

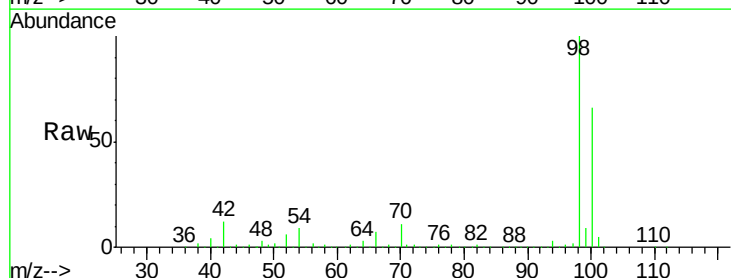
Acq: 11 May 2018 13:53

Tgt Ion: 98 Resp: 546561

Ion Ratio Lower Upper

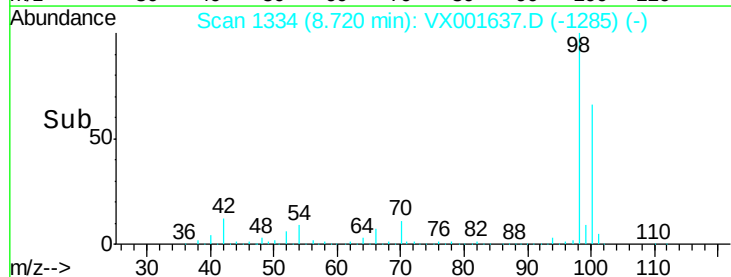
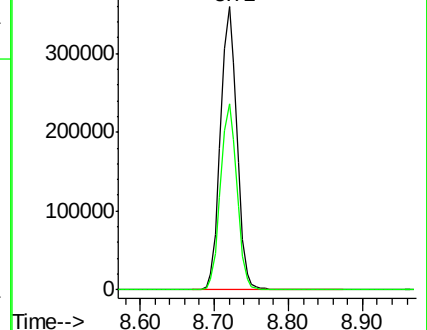
98 100

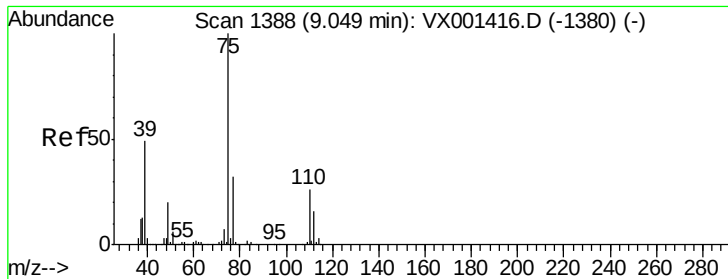
100 66.0 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#54

cis-1,3-Dichloropropene

Concen: 2.30 ug/l

RT: 9.04 min Scan# 1386

Delta R.T. -0.01 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

Instrument :

MSVOA\_X

ClientSampleId :

VX0511WBL02

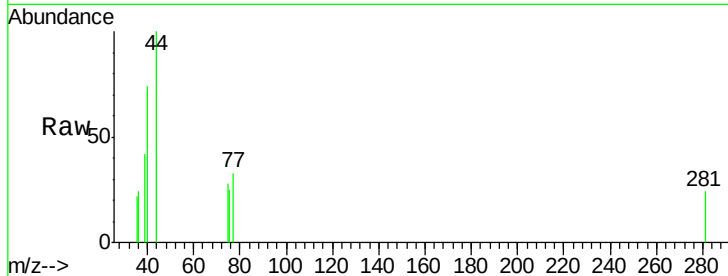
Tgt Ion: 75 Resp: 198

Ion Ratio Lower Upper

75 100

77 62.1 25.5 38.3#

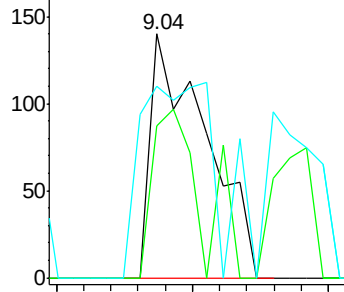
39 78.6 38.9 58.3#



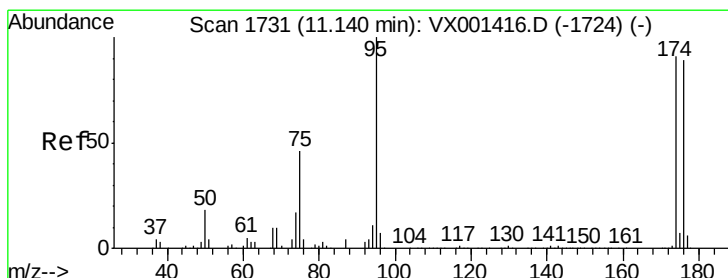
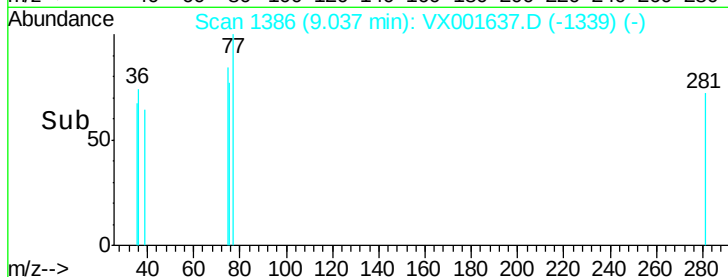
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time--> 9.00



#62

4-Bromofluorobenzene

Concen: 42.26 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

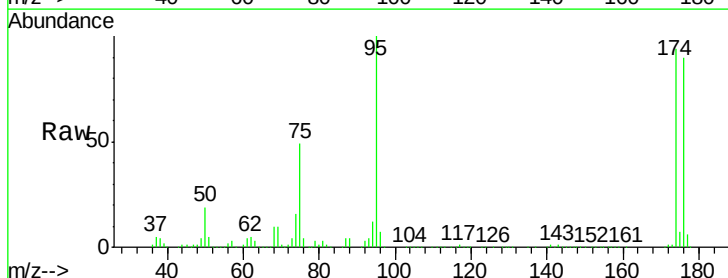
Tgt Ion: 95 Resp: 171817

Ion Ratio Lower Upper

95 100

174 100.3 0.0 202.0

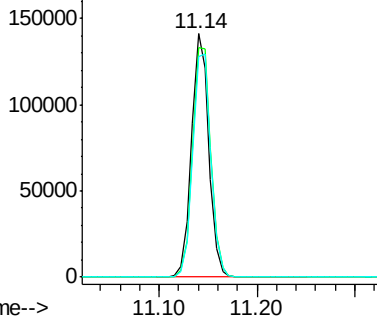
176 97.1 0.0 197.4



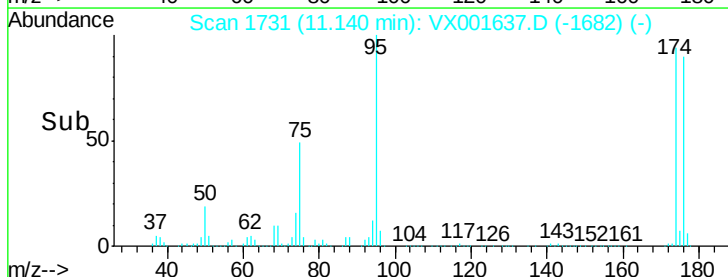
Abundance Ion 94.90 (94.60 to 95.60): VX0

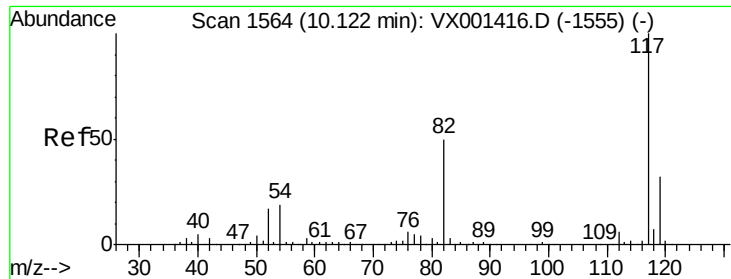
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time--> 11.10

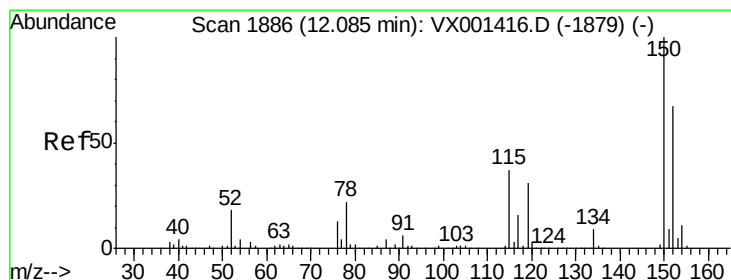
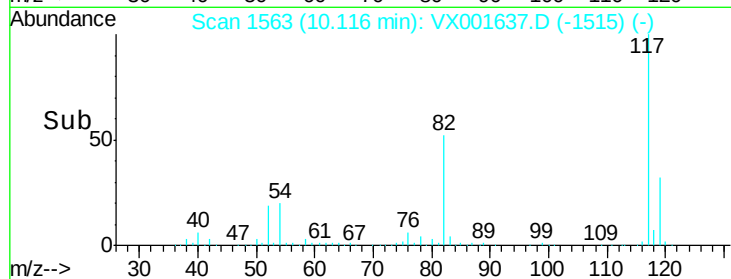
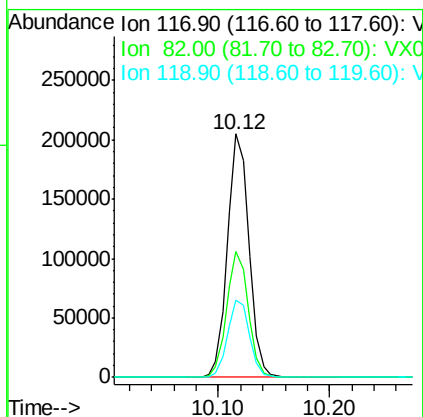
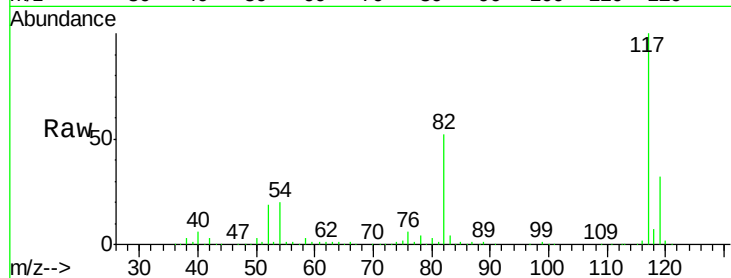




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.01 min  
Lab File: VX001637.D  
Acq: 11 May 2018 13:53

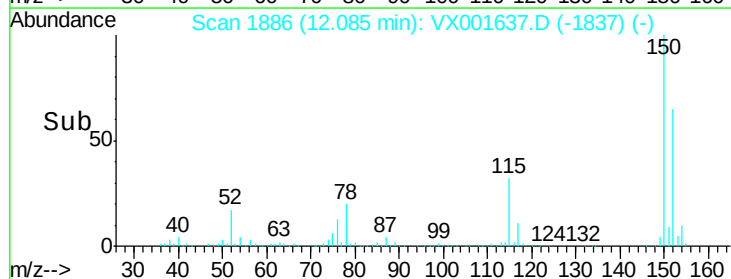
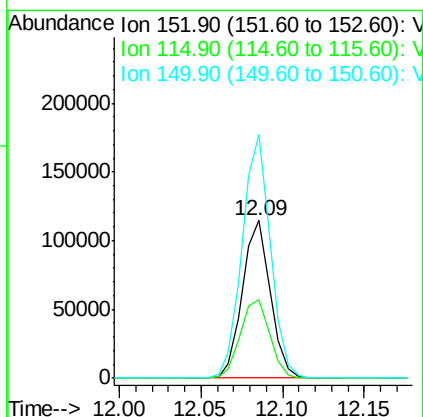
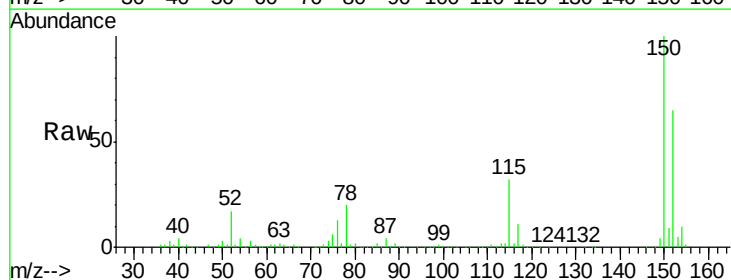
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0511WBL02

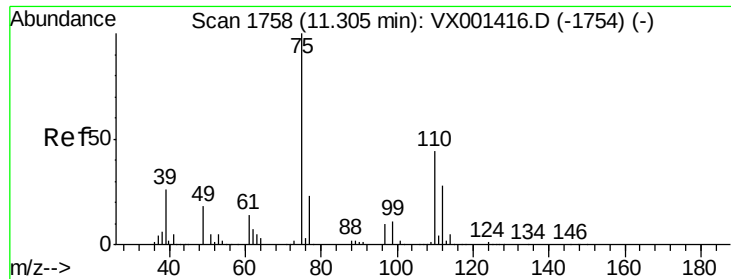
Tgt Ion:117 Resp: 274327  
Ion Ratio Lower Upper  
117 100  
82 52.0 40.0 60.0  
119 32.0 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX001637.D  
Acq: 11 May 2018 13:53

Tgt Ion:152 Resp: 137878  
Ion Ratio Lower Upper  
152 100  
115 52.4 37.7 113.1  
150 155.0 0.0 349.4





#76

1,2,3-Trichloropropane

Concen: 30.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

Instrument :

MSVOA\_X

ClientSampleId :

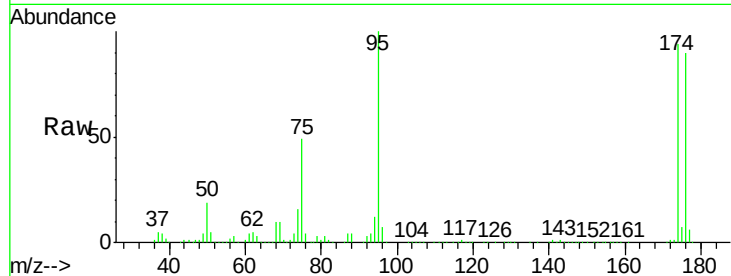
VX0511WBL02

Tgt Ion: 75 Resp: 84761

Ion Ratio Lower Upper

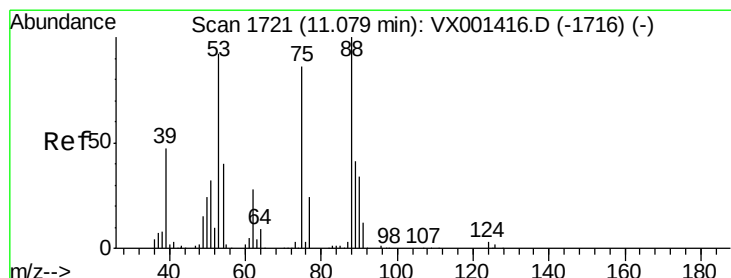
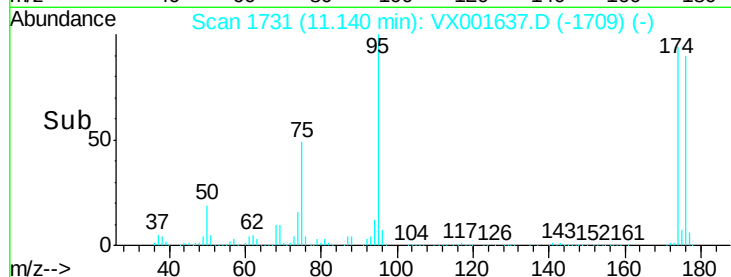
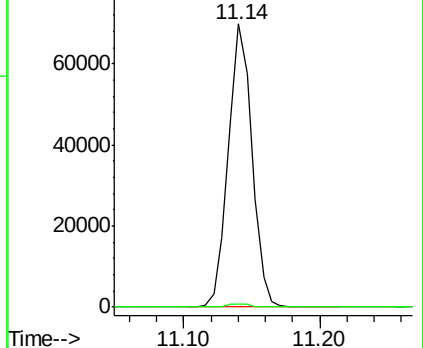
75 100

77 1.2 19.6 58.7#



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: 92.64 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

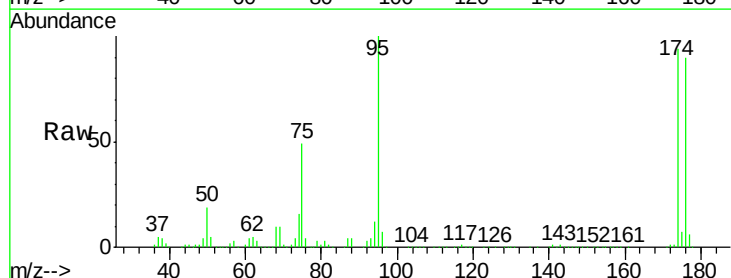
Tgt Ion: 75 Resp: 84761

Ion Ratio Lower Upper

75 100

53 0.1 84.5 126.7#

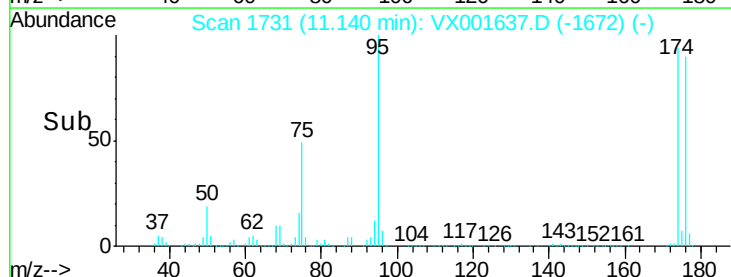
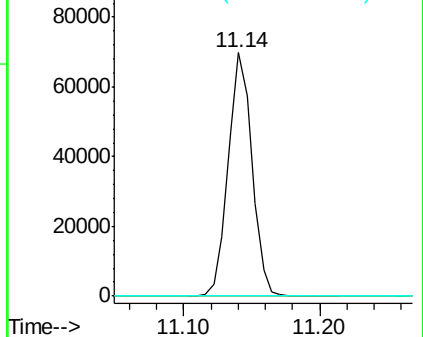
89 0.0 39.5 59.3#

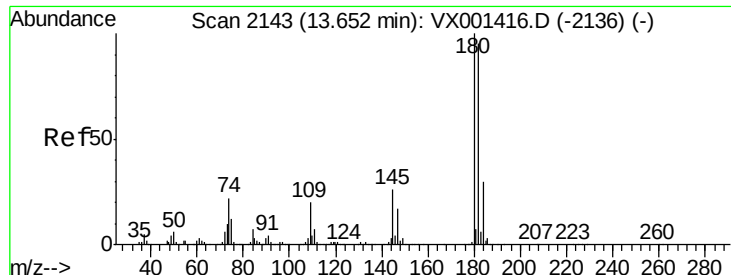


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#93

1,2,4-Trichlorobenzene

Concen: 0.22 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. 0.00 min

Lab File: VX001637.D

Acq: 11 May 2018 13:53

Instrument :

MSVOA\_X

ClientSampleId :

VX0511WBL02

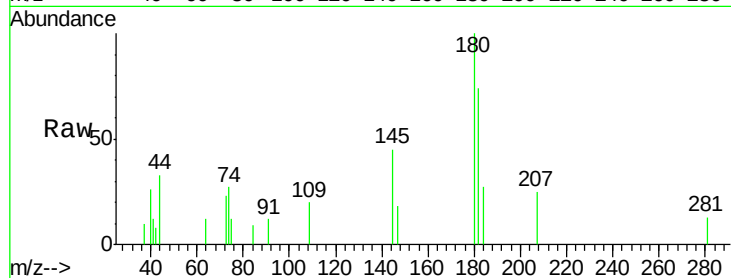
Tgt Ion:180 Resp: 807

Ion Ratio Lower Upper

180 100

182 82.8 47.8 143.4

145 26.6 13.3 39.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

