

Data File : VX001570.D  
Acq On : 09 May 2018 22:00  
Operator : JC/MD  
Sample : J2732-04  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
RAV-RMW-1

Quant Time: May 10 04:19:26 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  | 232755   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 315934   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 276915   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 146790   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 188777   | 56.43 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 112.86% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 148036   | 52.68 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.36% |      |
| 50) Toluene-d8              | 8.72   | 98  | 518281   | 50.53 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.06% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 165990   | 42.15 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 84.30%  |      |

|                                |       |     |       |            |   |    |
|--------------------------------|-------|-----|-------|------------|---|----|
| Target Compounds               |       |     |       | Qvalue     |   |    |
| 5) Bromomethane                | 1.65  | 94  | 523   | Below Cal  |   | 84 |
| 6) Chloroethane                | 1.73  | 64  | 629   | 0.30 ug/l  | # | 51 |
| 11) Tert butyl alcohol         | 3.08  | 59  | 178   | 0.25 ug/l  | # | 6  |
| 13) Acrolein                   | 2.31  | 56  | 31    | Below Cal  | # | 1  |
| 16) Acetone                    | 2.45  | 43  | 6293  | 4.14 ug/l  |   | 99 |
| 25) 2-Butanone                 | 4.72  | 43  | 7257  | 3.30 ug/l  |   | 97 |
| 29) Tetrahydrofuran            | 5.18  | 42  | 1202  | 0.86 ug/l  | # | 79 |
| 31) Cyclohexane                | 5.67  | 56  | 4270  | 0.99 ug/l  | # | 40 |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 14637 | 3.64 ug/l  | # | 50 |
| 37) Ethyl Acetate              | 4.72  | 43  | 7257  | 1.65 ug/l  | # | 71 |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 20617 | 4.81 ug/l  | # | 16 |
| 48) Methyl methacrylate        | 7.79  | 41  | 936   | 0.25 ug/l  | # | 76 |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 83011 | 27.88 ug/l | # | 38 |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 83011 | 85.57 ug/l | # | 7  |

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

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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
RAV-RMW-1

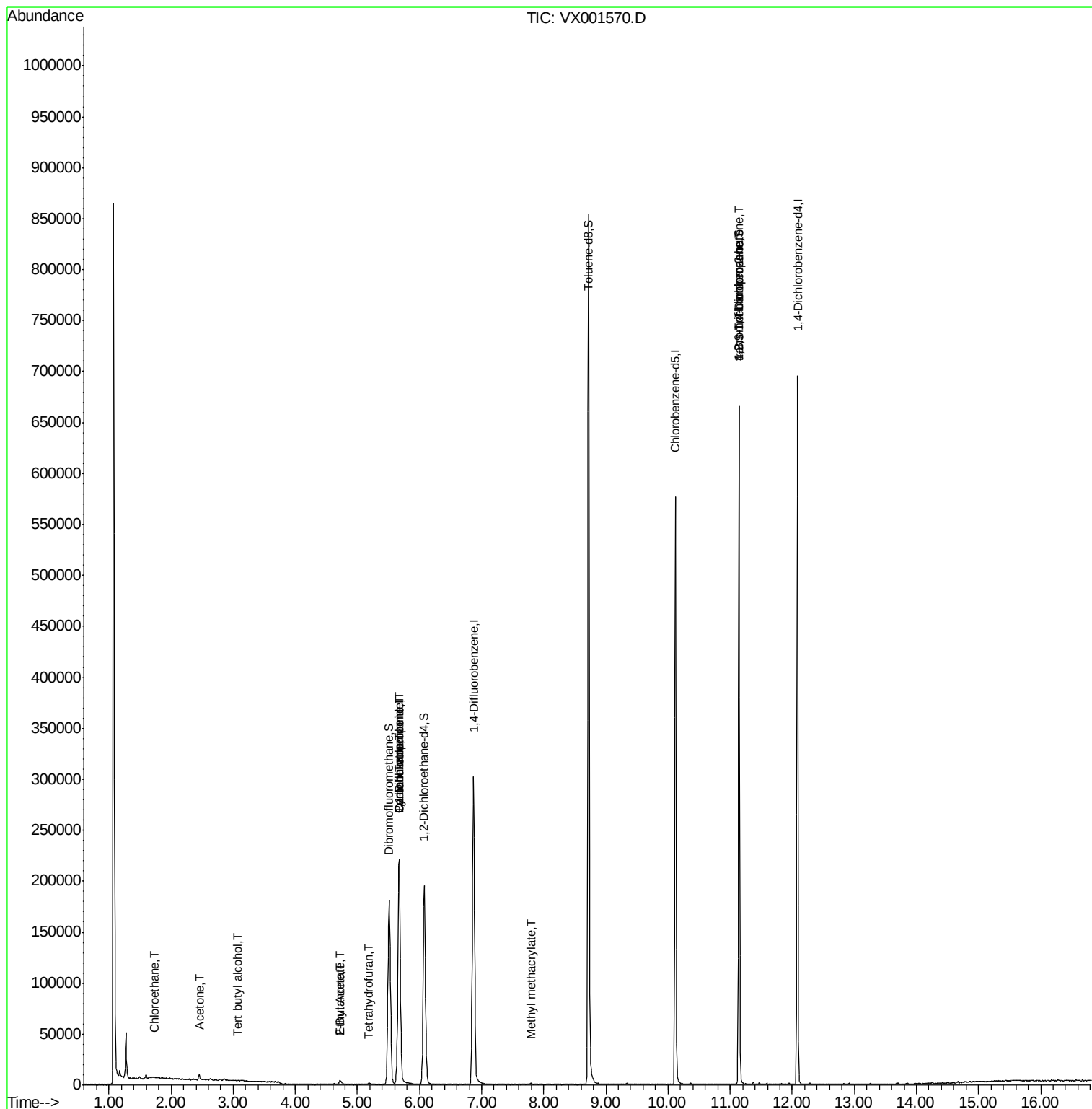
Quant Time: May 10 04:19:26 2018

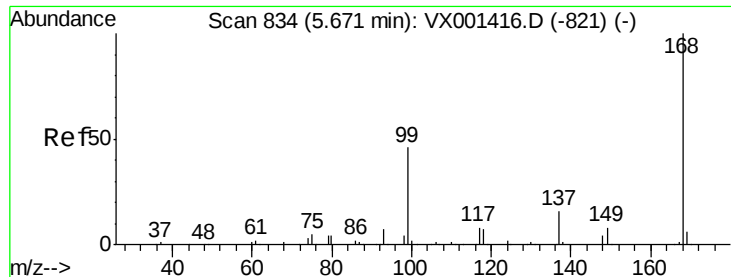
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M

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: VX001570.D

Acq: 09 May 2018 22:00

Instrument :

MSVOA\_X

ClientSampleId :

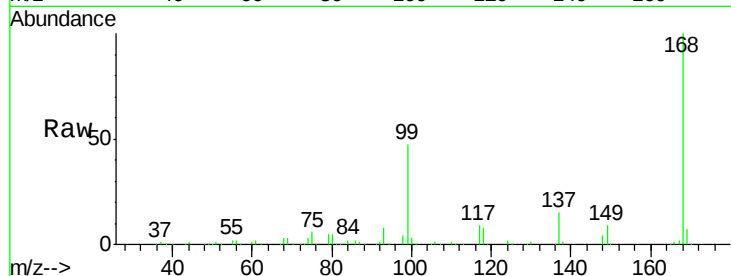
RAV-RMW-1

Tgt Ion:168 Resp: 232755

Ion Ratio Lower Upper

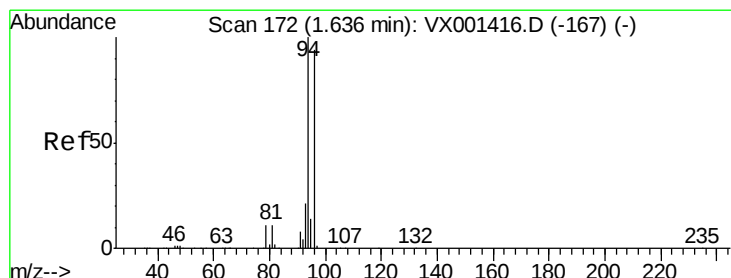
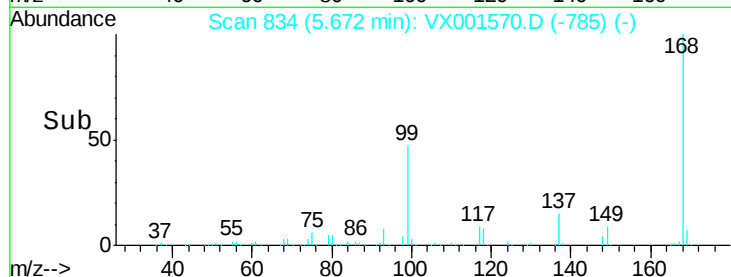
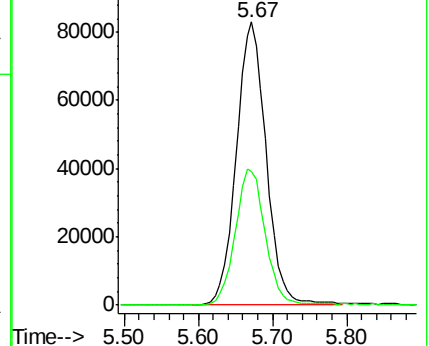
168 100

99 47.2 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001570.D

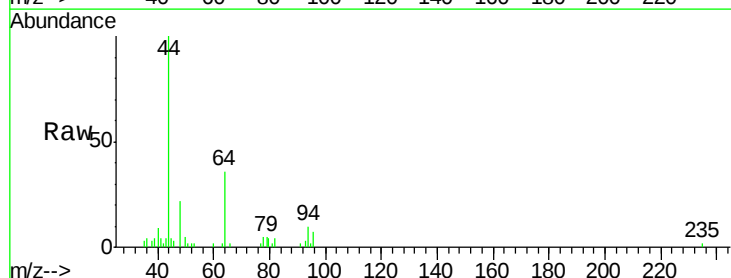
Acq: 09 May 2018 22:00

Tgt Ion: 94 Resp: 523

Ion Ratio Lower Upper

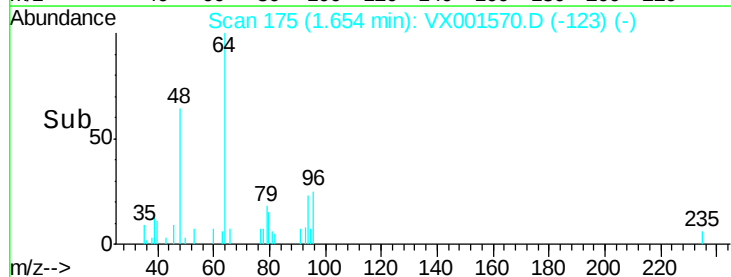
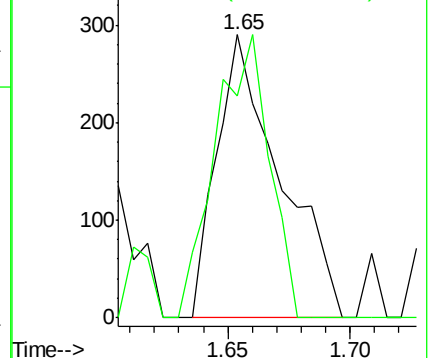
94 100

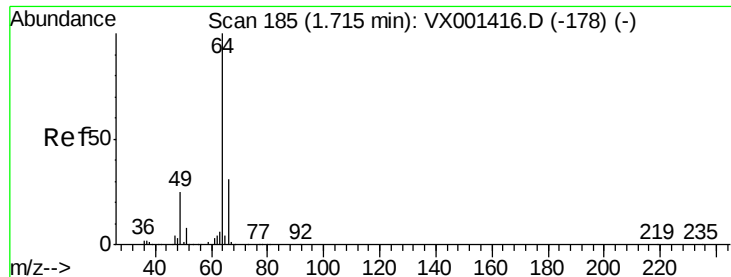
96 78.3 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.30 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX001570.D

Acq: 09 May 2018 22:00

Instrument :

MSVOA\_X

ClientSampleId :

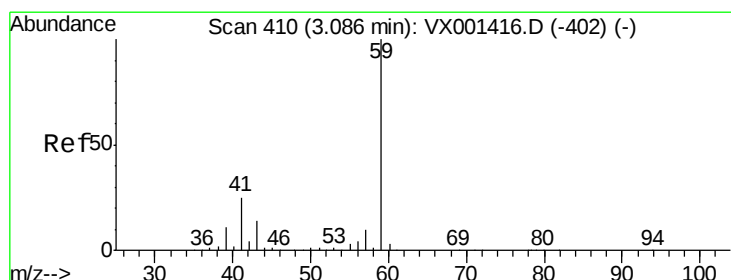
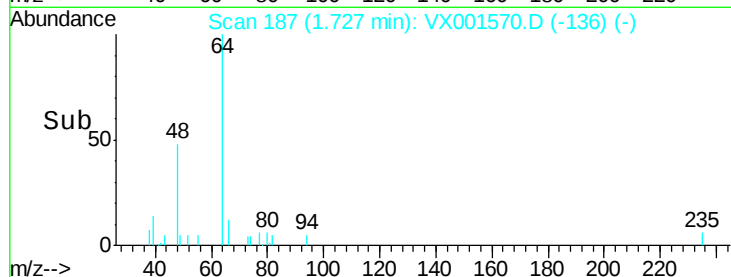
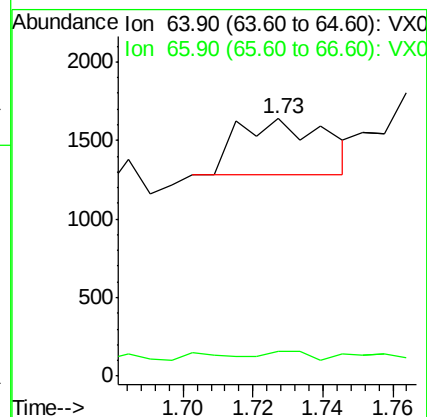
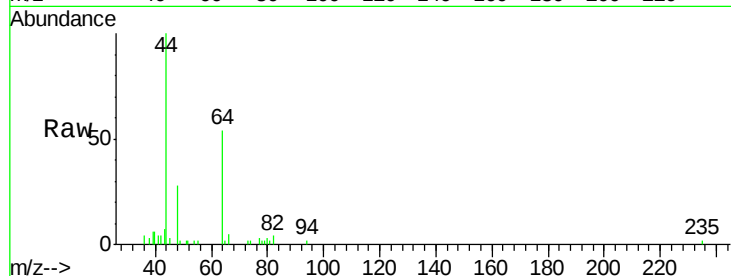
RAV-RMW-1

Tgt Ion: 64 Resp: 629

Ion Ratio Lower Upper

64 100

66 4.5 25.1 37.7#



#11

Tert butyl alcohol

Concen: 0.25 ug/l

RT: 3.08 min Scan# 409

Delta R.T. -0.01 min

Lab File: VX001570.D

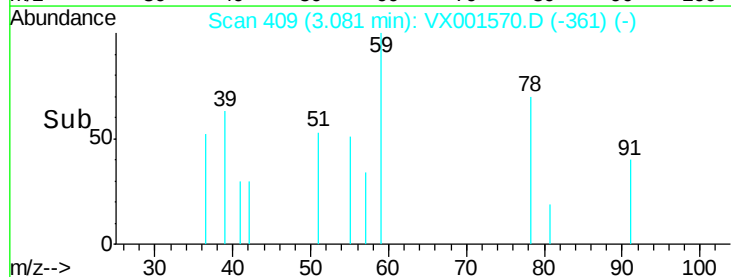
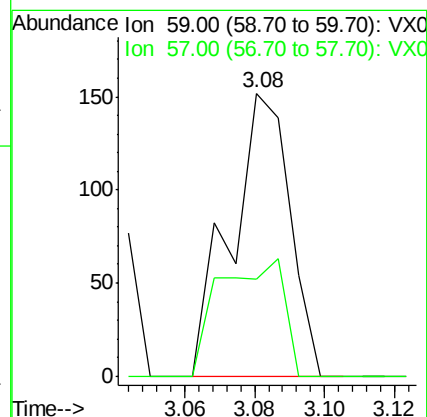
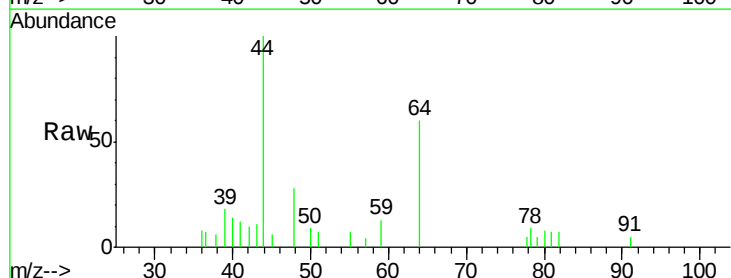
Acq: 09 May 2018 22:00

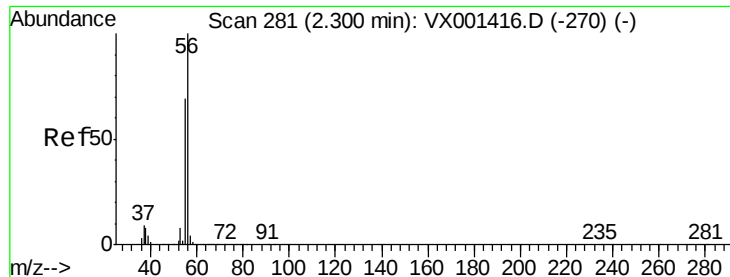
Tgt Ion: 59 Resp: 178

Ion Ratio Lower Upper

59 100

57 45.5 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX001570.D

Acq: 09 May 2018 22:00

Instrument :

MSVOA\_X

ClientSampled :

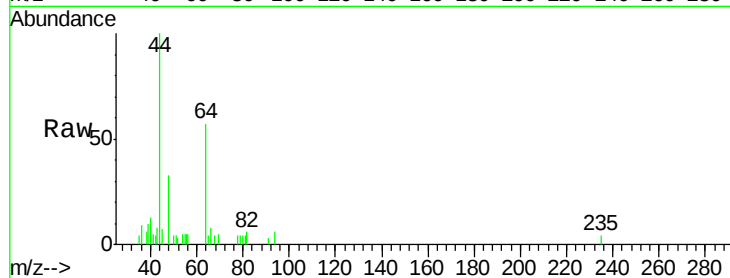
RAV-RMW-1

Tgt Ion: 56 Resp: 31

Ion Ratio Lower Upper

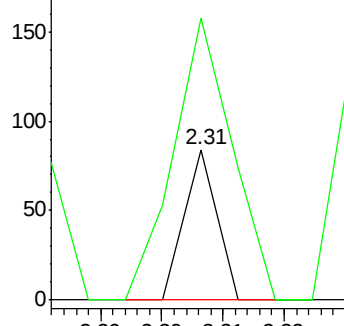
56 100

55 335.5 54.5 81.7#

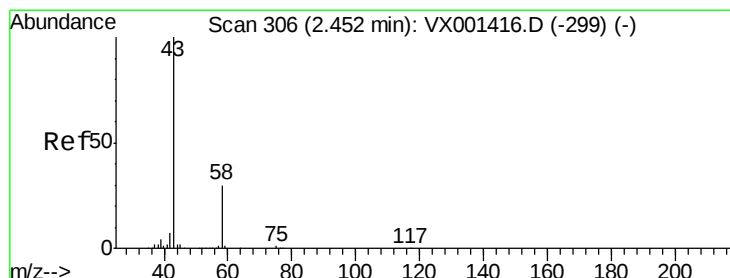
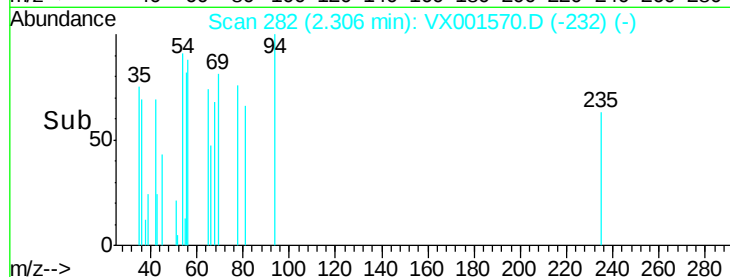


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 4.14 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX001570.D

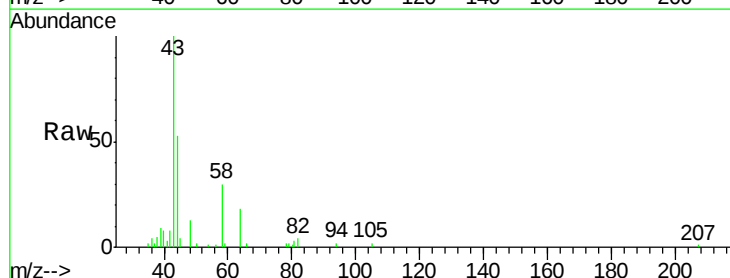
Acq: 09 May 2018 22:00

Tgt Ion: 43 Resp: 6293

Ion Ratio Lower Upper

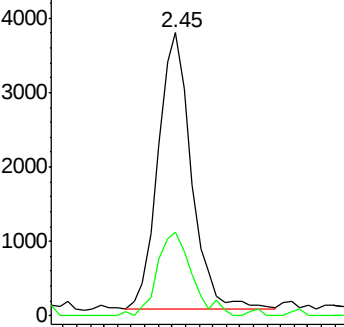
43 100

58 30.5 23.8 35.8

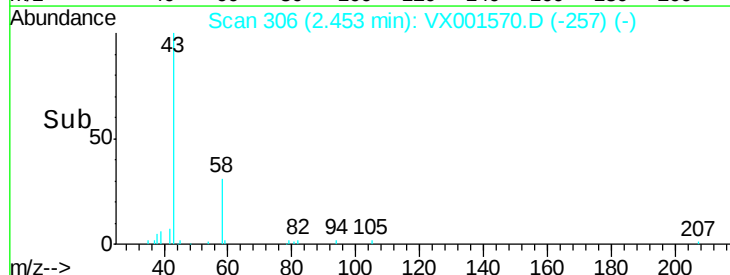


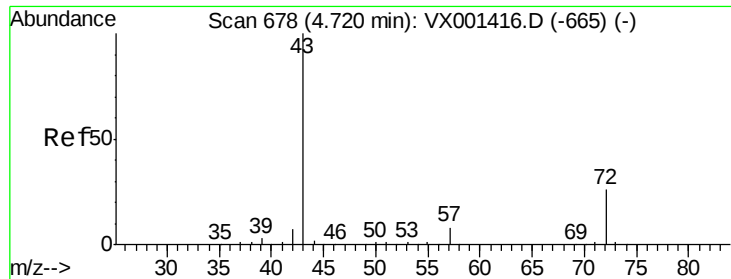
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#25

2-Butanone

Concen: 3.30 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.00 min

Lab File: VX001570.D

Acq: 09 May 2018 22:00

Instrument :

MSVOA\_X

ClientSampled :

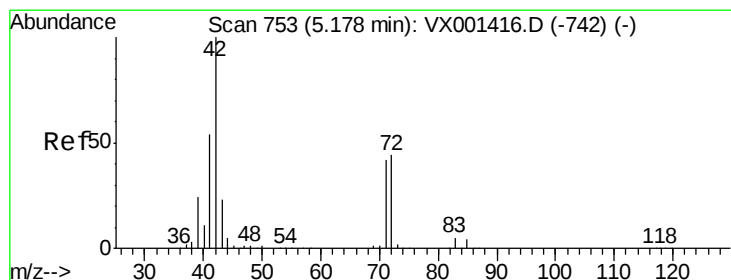
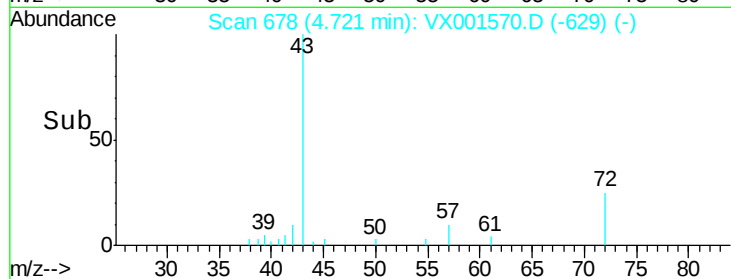
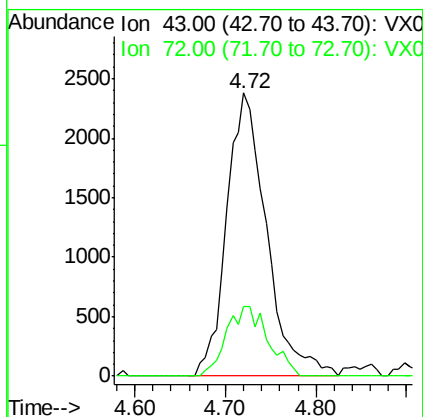
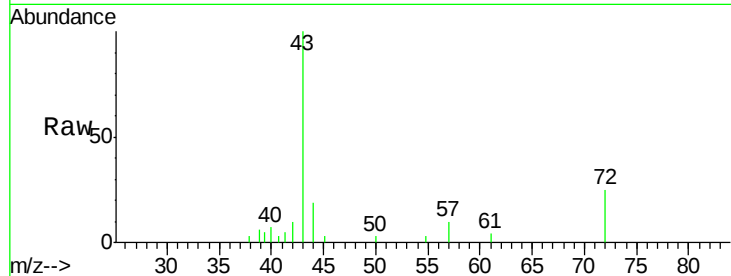
RAV-RMW-1

Tgt Ion: 43 Resp: 7257

Ion Ratio Lower Upper

43 100

72 24.6 20.7 31.1



#29

Tetrahydrofuran

Concen: 0.86 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.00 min

Lab File: VX001570.D

Acq: 09 May 2018 22:00

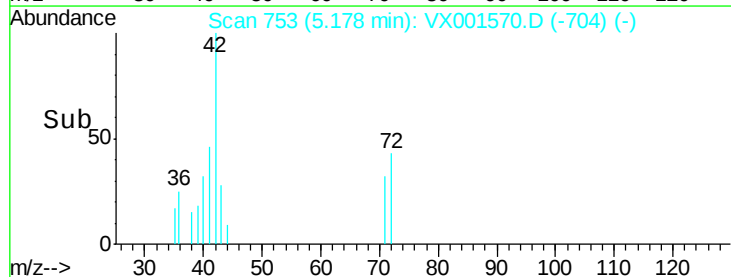
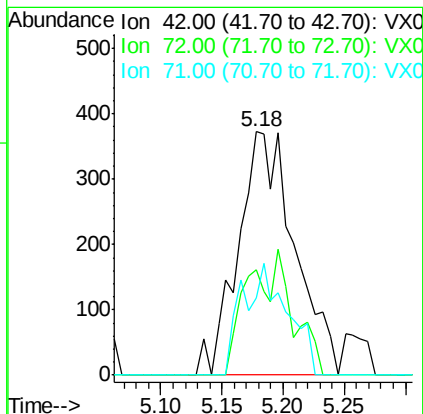
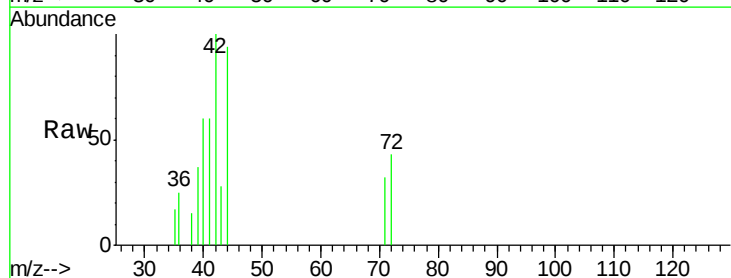
Tgt Ion: 42 Resp: 1202

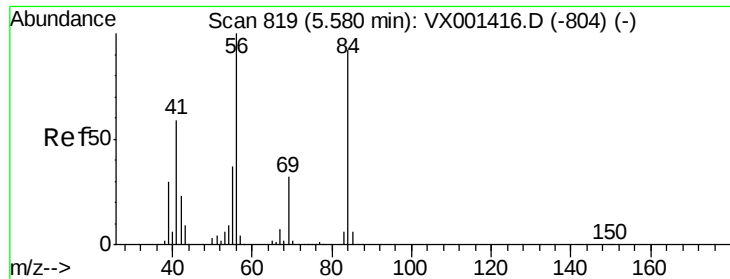
Ion Ratio Lower Upper

42 100

72 22.5 35.4 53.2#

71 36.4 33.0 49.4

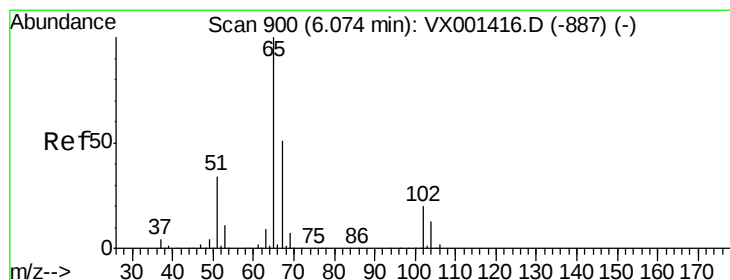
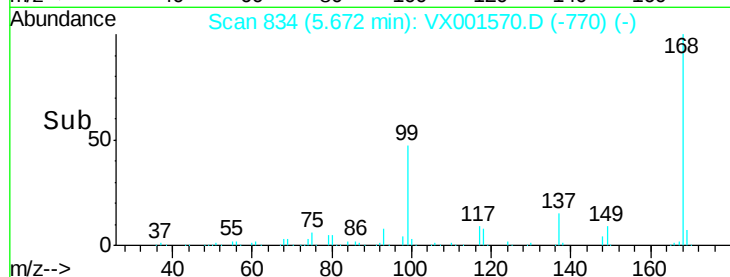
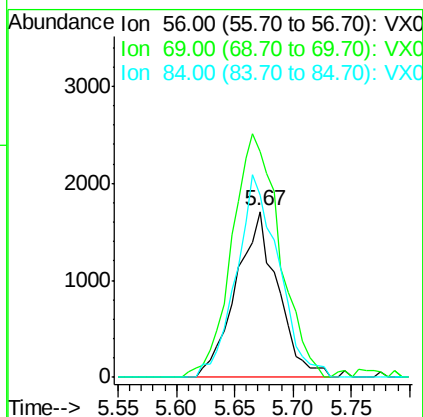
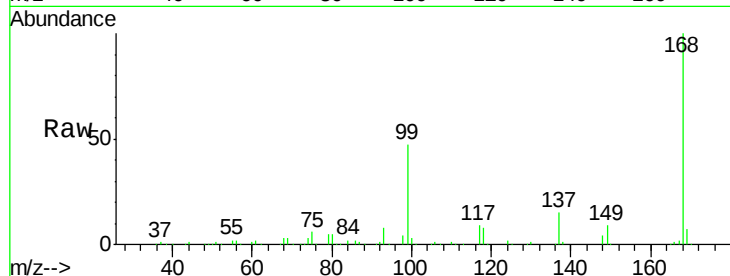




#31  
Cyclohexane  
Concen: 0.99 ug/l  
RT: 5.67 min Scan# 834  
Delta R.T. 0.09 min  
Lab File: VX001570.D  
Acq: 09 May 2018 22:00

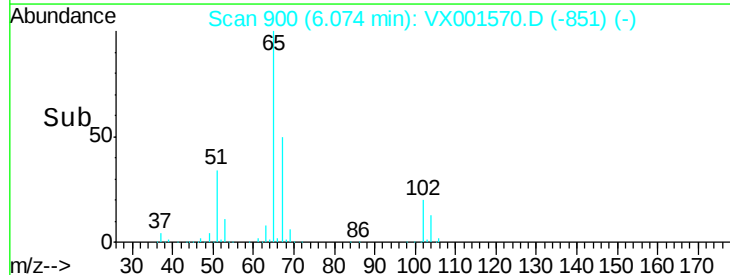
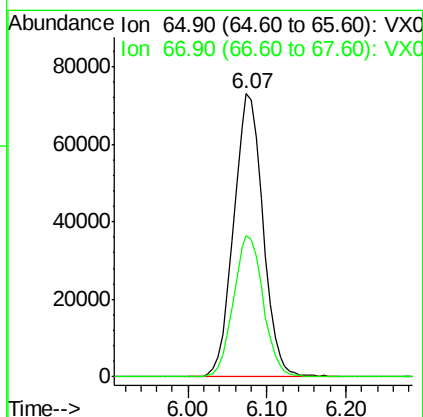
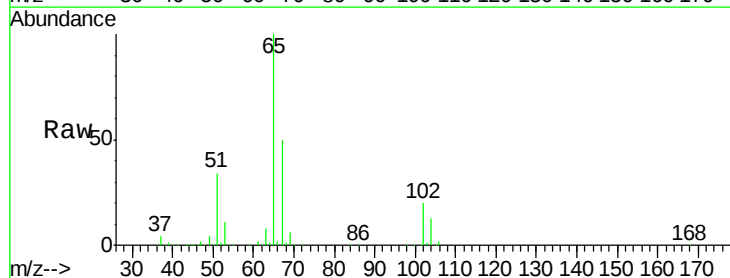
Instrument :  
MSVOA\_X  
ClientSampleId :  
RAV-RMW-1

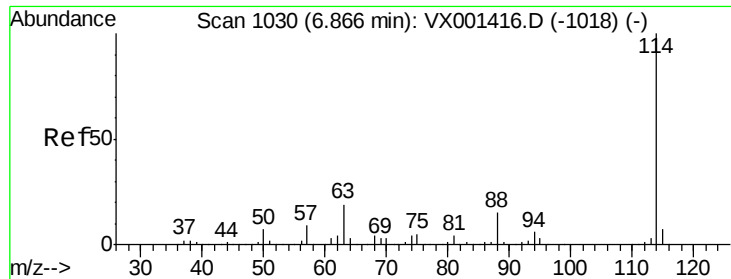
Tgt Ion: 56 Resp: 4270  
Ion Ratio Lower Upper  
56 100  
69 132.3 25.4 38.0#  
84 109.9 73.8 110.8



#33  
1,2-Dichloroethane-d4  
Concen: 56.43 ug/l  
RT: 6.07 min Scan# 900  
Delta R.T. 0.00 min  
Lab File: VX001570.D  
Acq: 09 May 2018 22:00

Tgt Ion: 65 Resp: 188777  
Ion Ratio Lower Upper  
65 100  
67 50.7 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: VX001570.D

Acq: 09 May 2018 22:00

Instrument :

MSVOA\_X

ClientSampleId :

RAV-RMW-1

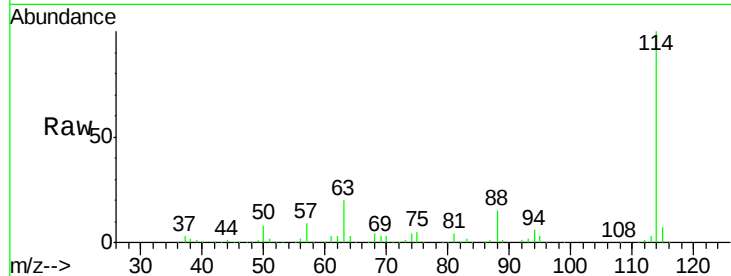
Tgt Ion:114 Resp: 315934

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.6

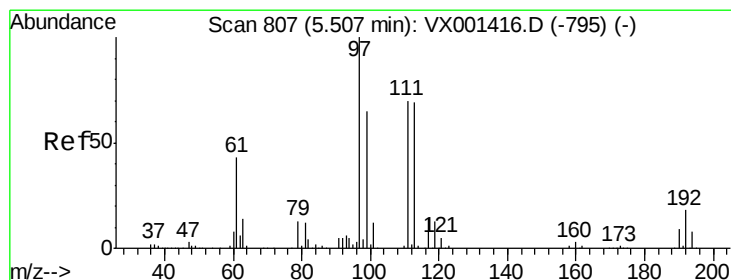
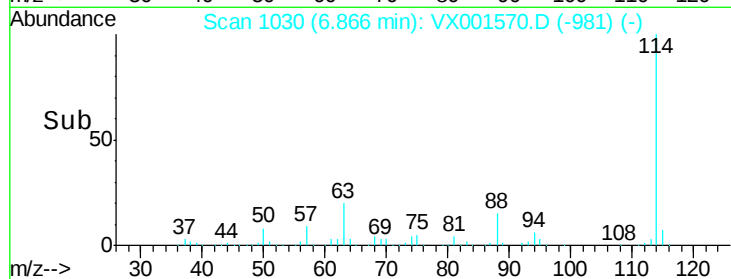
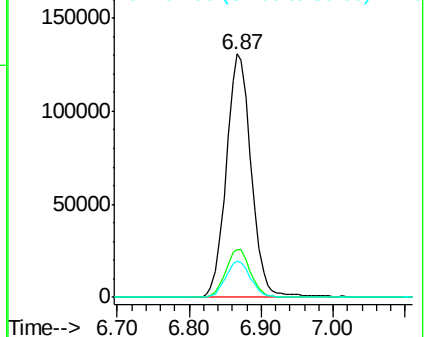
88 15.1 0.0 30.8



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: 52.68 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX001570.D

Acq: 09 May 2018 22:00

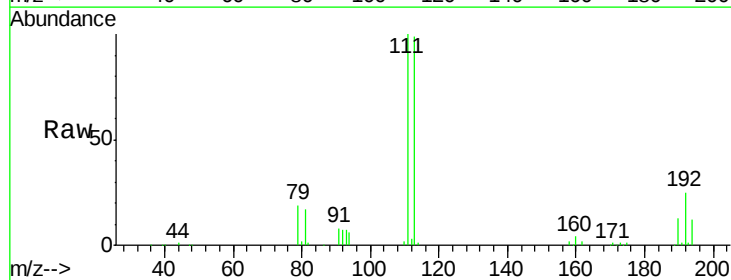
Tgt Ion:113 Resp: 148036

Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.2

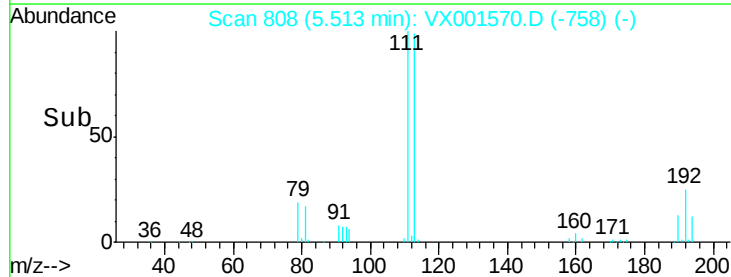
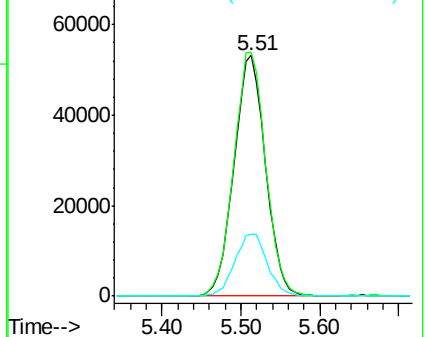
192 26.4 21.4 32.0

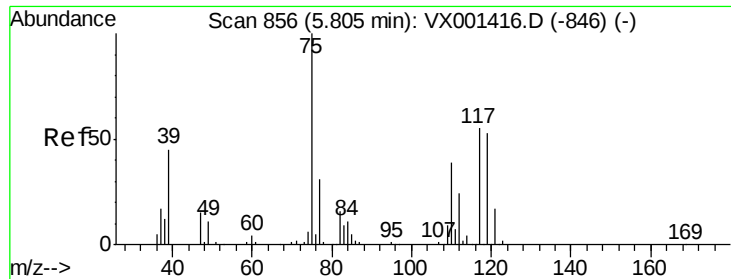


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

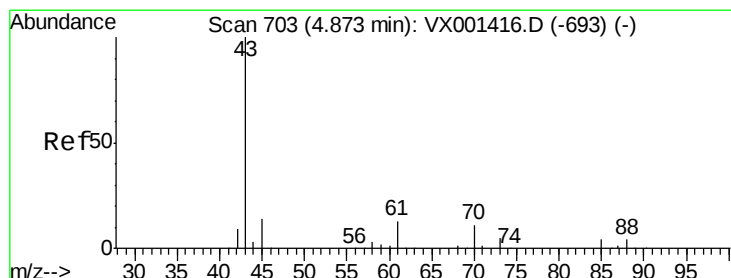
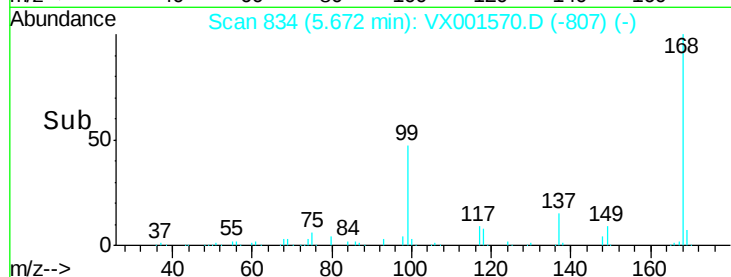
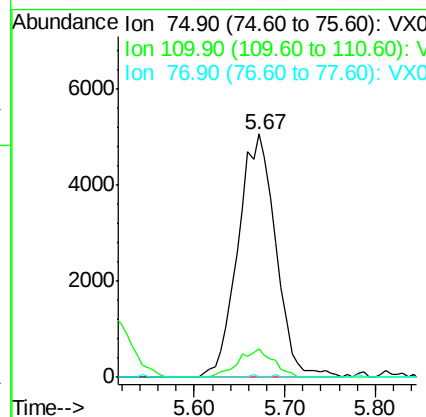
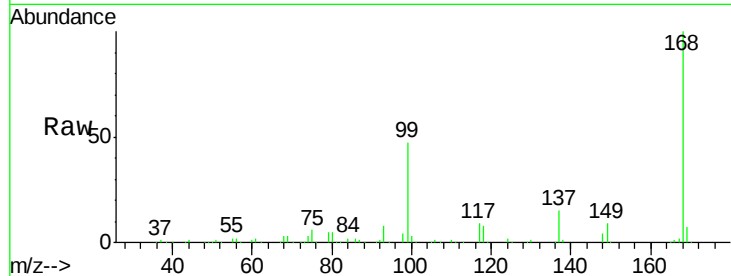




#36  
 1,1-Dichloropropene  
 Concen: 3.64 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX001570.D  
 Acq: 09 May 2018 22:00

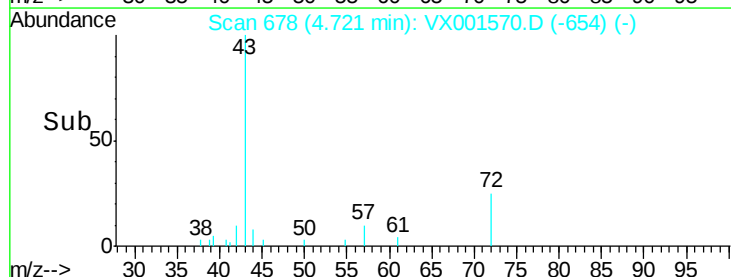
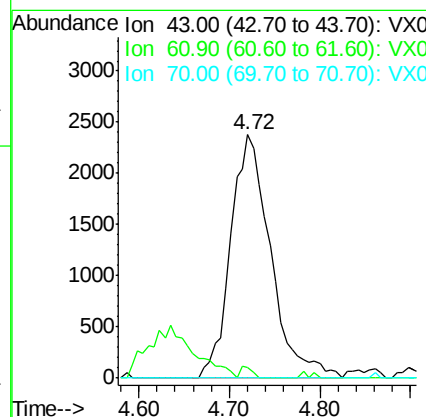
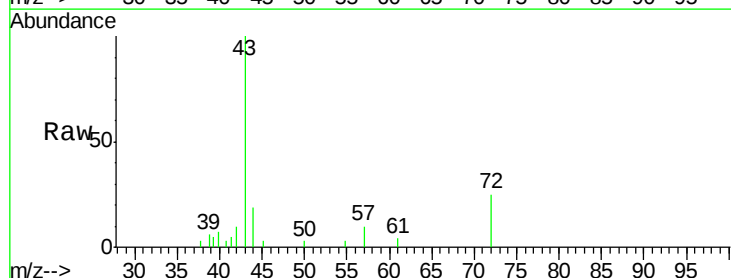
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 RAV-RMW-1

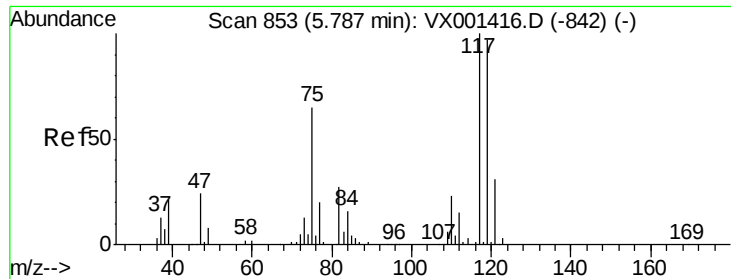
Tgt Ion: 75 Resp: 14637  
 Ion Ratio Lower Upper  
 75 100  
 110 10.8 18.9 56.7#  
 77 0.1 24.9 37.3#



#37  
 Ethyl Acetate  
 Concen: 1.65 ug/l  
 RT: 4.72 min Scan# 678  
 Delta R.T. -0.15 min  
 Lab File: VX001570.D  
 Acq: 09 May 2018 22:00

Tgt Ion: 43 Resp: 7257  
 Ion Ratio Lower Upper  
 43 100  
 61 1.3 10.7 16.1#  
 70 0.0 8.4 12.6#

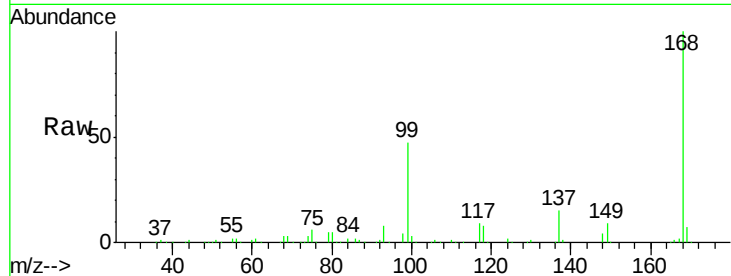




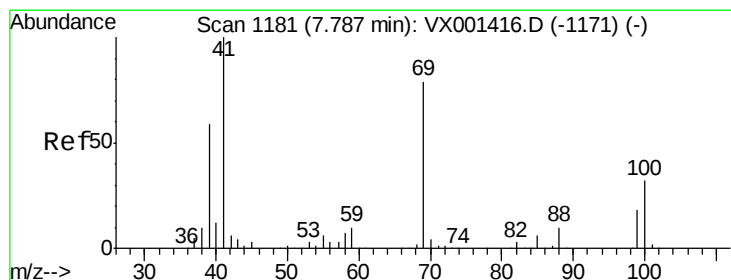
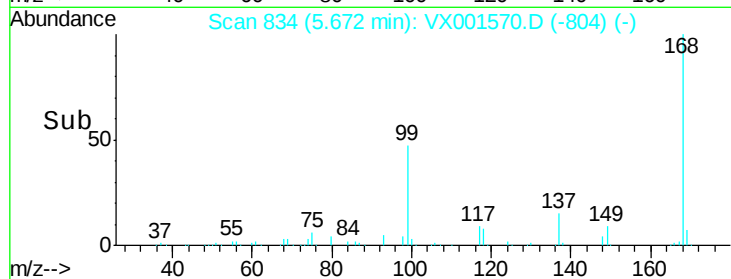
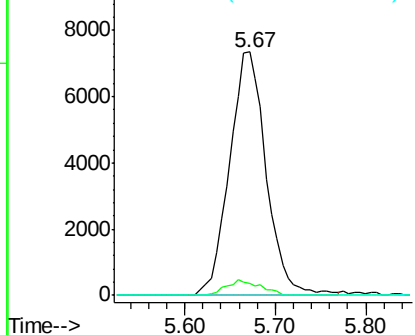
#38  
Carbon Tetrachloride  
Concen: 4.81 ug/l  
RT: 5.67 min Scan# 834  
Delta R.T. -0.12 min  
Lab File: VX001570.D  
Acq: 09 May 2018 22:00

Instrument :  
MSVOA\_X  
ClientSampled :  
RAV-RMW-1

Tgt Ion: 117 Resp: 20617  
Ion Ratio Lower Upper  
117 100  
119 4.9 77.0 115.6#  
121 0.0 25.1 37.7#

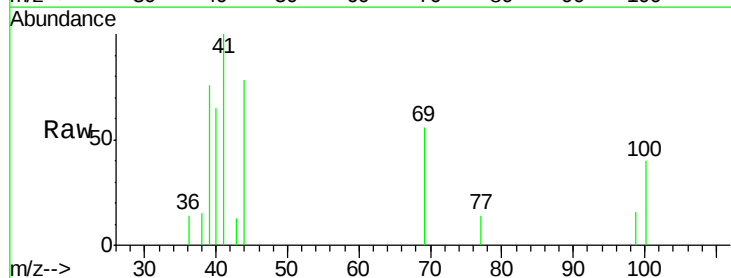


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

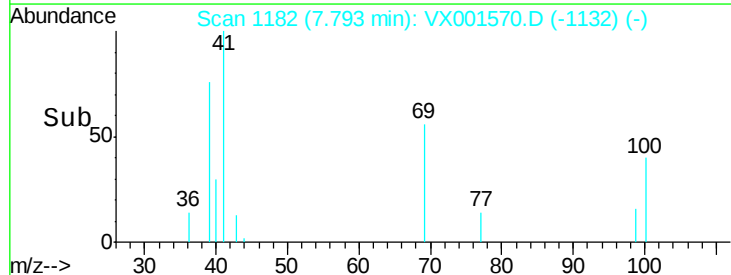
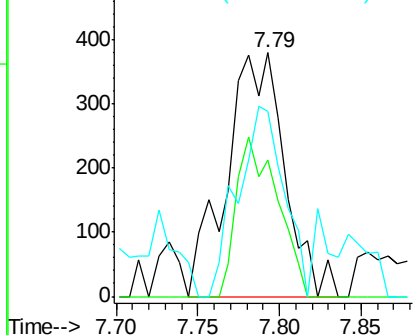


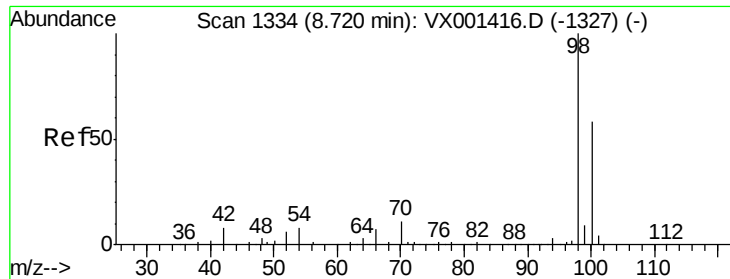
#48  
Methyl methacrylate  
Concen: 0.25 ug/l  
RT: 7.79 min Scan# 1182  
Delta R.T. 0.01 min  
Lab File: VX001570.D  
Acq: 09 May 2018 22:00

Tgt Ion: 41 Resp: 936  
Ion Ratio Lower Upper  
41 100  
69 46.4 63.4 95.2#  
39 62.7 47.0 70.4



Abundance Ion 41.00 (40.70 to 41.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 50.53 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001570.D

Acq: 09 May 2018 22:00

Instrument :

MSVOA\_X

ClientSampleId :

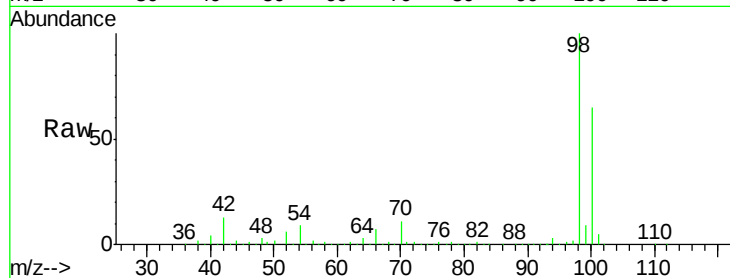
RAV-RMW-1

Tgt Ion: 98 Resp: 518281

Ion Ratio Lower Upper

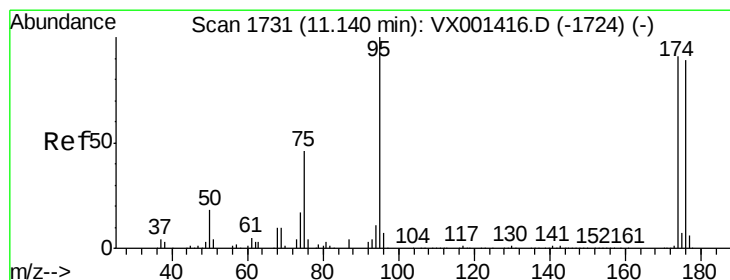
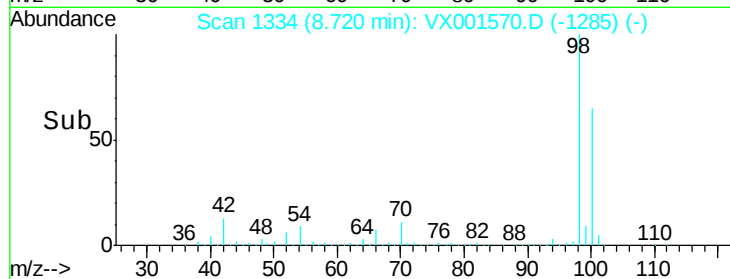
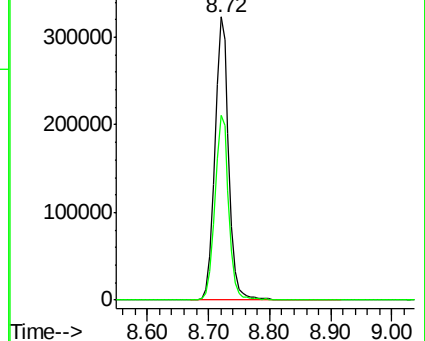
98 100

100 65.8 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 42.15 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001570.D

Acq: 09 May 2018 22:00

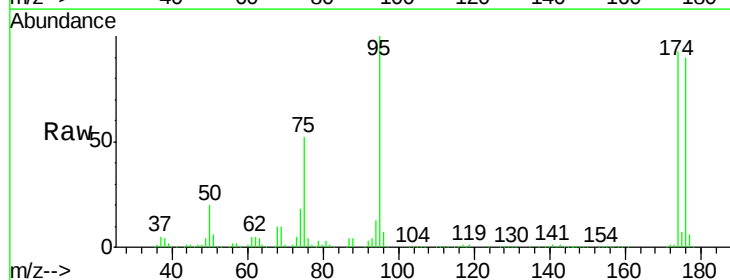
Tgt Ion: 95 Resp: 165990

Ion Ratio Lower Upper

95 100

174 100.4 0.0 202.0

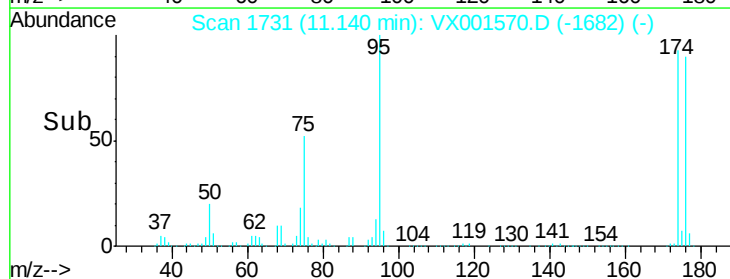
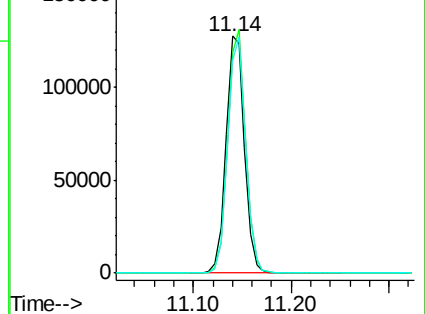
176 97.4 0.0 197.4

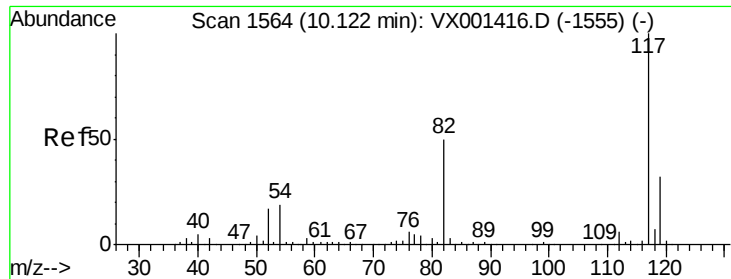


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

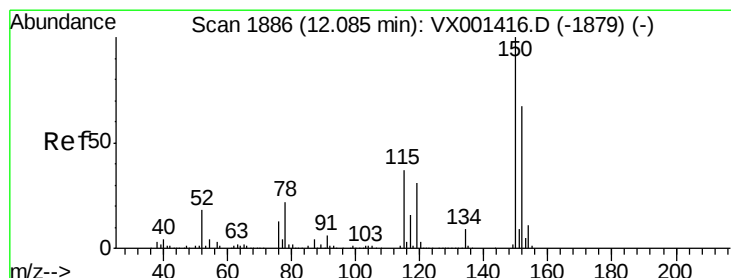
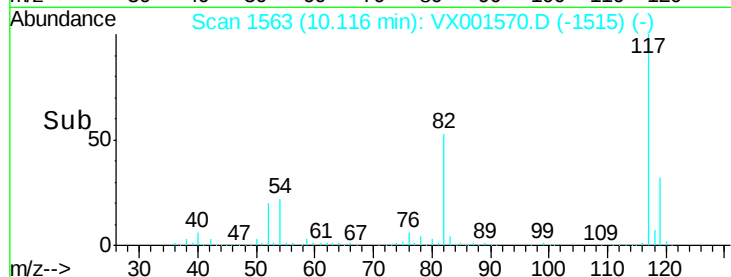
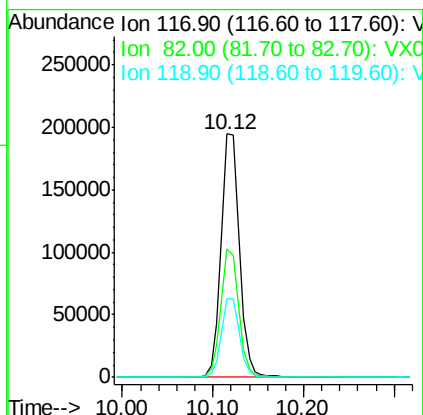
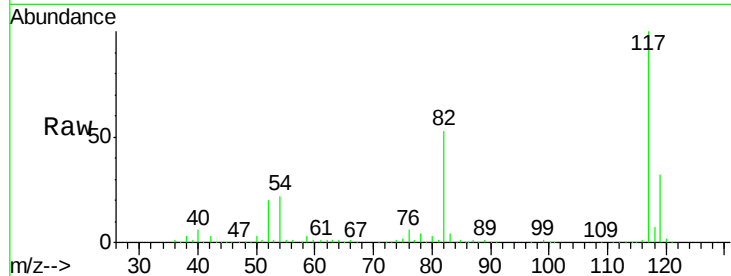




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.01 min  
Lab File: VX001570.D  
Acq: 09 May 2018 22:00

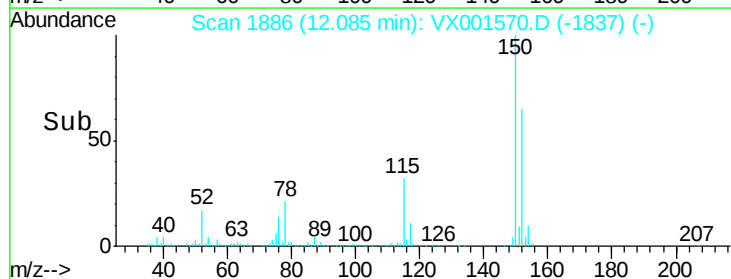
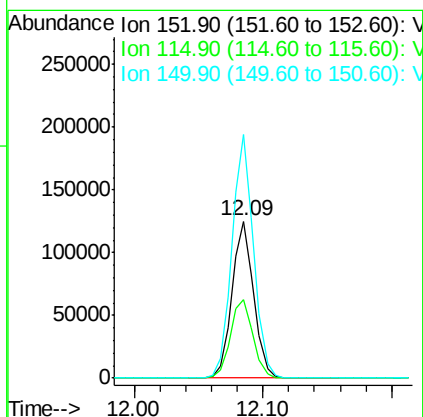
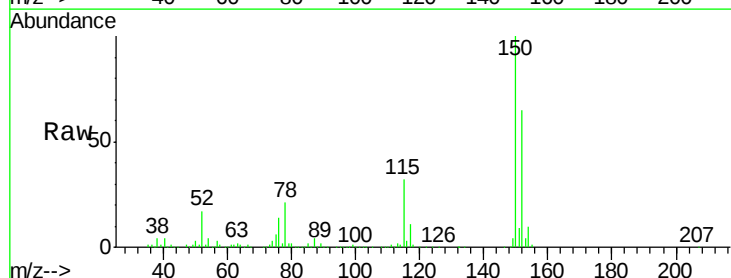
Instrument :  
MSVOA\_X  
ClientSampled :  
RAV-RMW-1

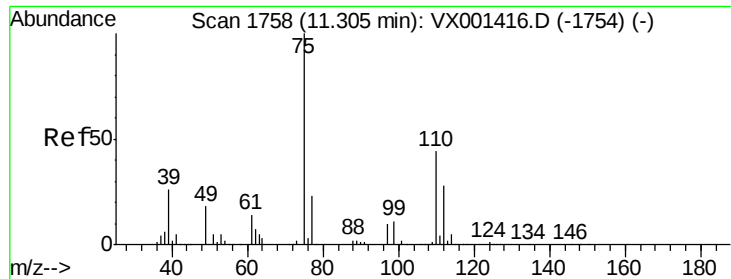
Tgt Ion:117 Resp: 276915  
Ion Ratio Lower Upper  
117 100  
82 52.8 40.0 60.0  
119 32.0 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX001570.D  
Acq: 09 May 2018 22:00

Tgt Ion:152 Resp: 146790  
Ion Ratio Lower Upper  
152 100  
115 52.5 37.7 113.1  
150 154.6 0.0 349.4





#76

1,2,3-Trichloropropane

Concen: 27.88 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001570.D

Acq: 09 May 2018 22:00

Instrument :

MSVOA\_X

ClientSampled :

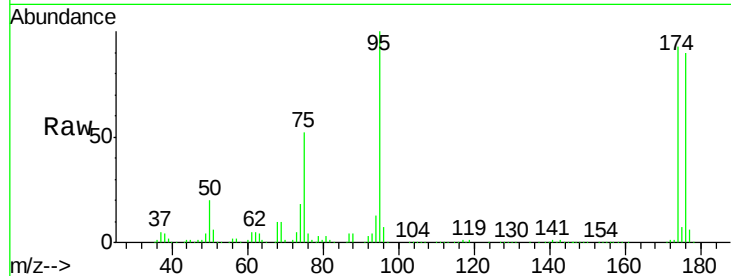
RAV-RMW-1

Tgt Ion: 75 Resp: 83011

Ion Ratio Lower Upper

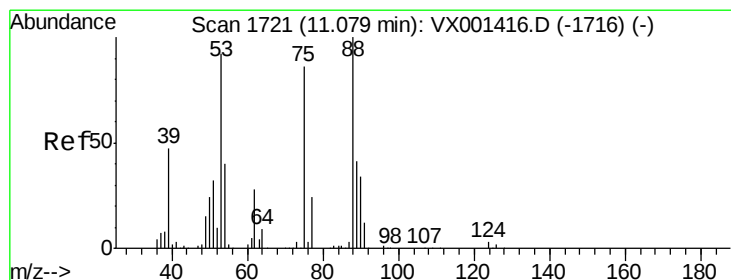
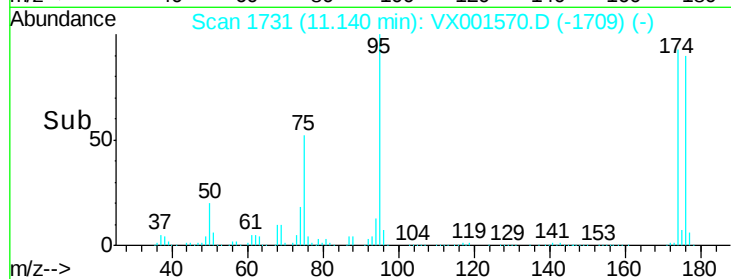
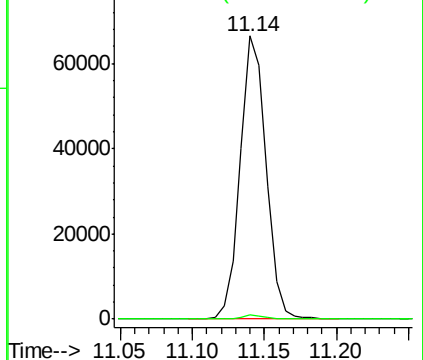
75 100

77 1.3 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: 85.57 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001570.D

Acq: 09 May 2018 22:00

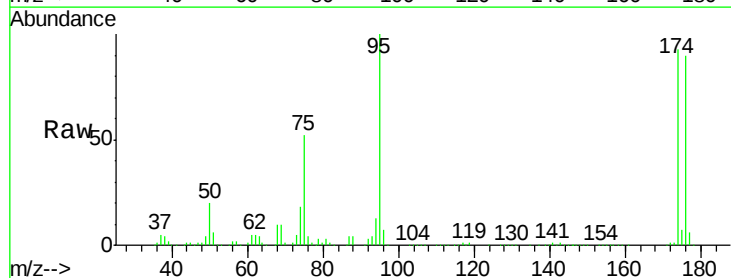
Tgt Ion: 75 Resp: 83011

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

