

Data File : VX000550.D  
Acq On : 30 Mar 2018 08:08  
Operator : JC/MD  
Sample : J2094-07  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 48 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-4

Quant Time: Mar 30 08:40:30 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 21 04:52:42 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.68  | 168  | 105226   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 185671   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 186603   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 98451    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.08   | 65  | 75305    | 54.82 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 109.64% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 58336    | 49.86 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.72%  |      |
| 50) Toluene-d8              | 8.73   | 98  | 234997   | 48.50 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.00%  |      |
| 62) 4-Bromofluorobenzene    | 11.15  | 95  | 81717    | 41.16 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 82.32%  |      |

|                                |       |     |       |        |        |    |
|--------------------------------|-------|-----|-------|--------|--------|----|
| Target Compounds               |       |     |       | Qvalue |        |    |
| 4) Vinyl Chloride              | 1.40  | 62  | 312   | 0.24   | ug/l # | 69 |
| 6) Chloroethane                | 1.75  | 64  | 183   | Below  | Cal #  | 44 |
| 11) Tert butyl alcohol         | 3.09  | 59  | 389   | 0.82   | ug/l # | 48 |
| 12) 1,1-Dichloroethene         | 2.38  | 96  | 1089  | 0.95   | ug/l   | 93 |
| 13) Acrolein                   | 2.31  | 56  | 44    | 14.85  | ug/l # | 66 |
| 16) Acetone                    | 2.45  | 43  | 2739  | 2.40   | ug/l   | 97 |
| 20) Methylene Chloride         | 2.85  | 84  | 602   | 0.46   | ug/l # | 73 |
| 24) 1,1-Dichloroethane         | 3.71  | 63  | 3218  | 1.44   | ug/l   | 98 |
| 27) cis-1,2-Dichloroethene     | 4.61  | 96  | 351   | 0.30   | ug/l   | 54 |
| 29) Tetrahydrofuran            | 5.17  | 42  | 257   | 0.33   | ug/l # | 43 |
| 31) Cyclohexane                | 5.67  | 56  | 2626  | 1.52   | ug/l # | 31 |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 8302  | 4.77   | ug/l # | 45 |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 10031 | 5.50   | ug/l # | 17 |
| 49) 1,4-Dioxane                | 7.78  | 88  | 882   | 24.44  | ug/l   | 89 |
| 51) 4-Methyl-2-Pentanone       | 8.73  | 43  | 1292  | 0.47   | ug/l # | 1  |
| 74) N-amyl acetate             | 6.38  | 43  | 75    | Below  | Cal #  | 59 |
| 76) 1,2,3-Trichloropropane     | 11.15 | 75  | 48218 | 22.79  | ug/l # | 34 |
| 81) trans-1,4-Dichloro-2-buten | 11.15 | 75  | 48218 | 73.78  | ug/l # | 9  |

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

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ALS Vial : 48 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-4

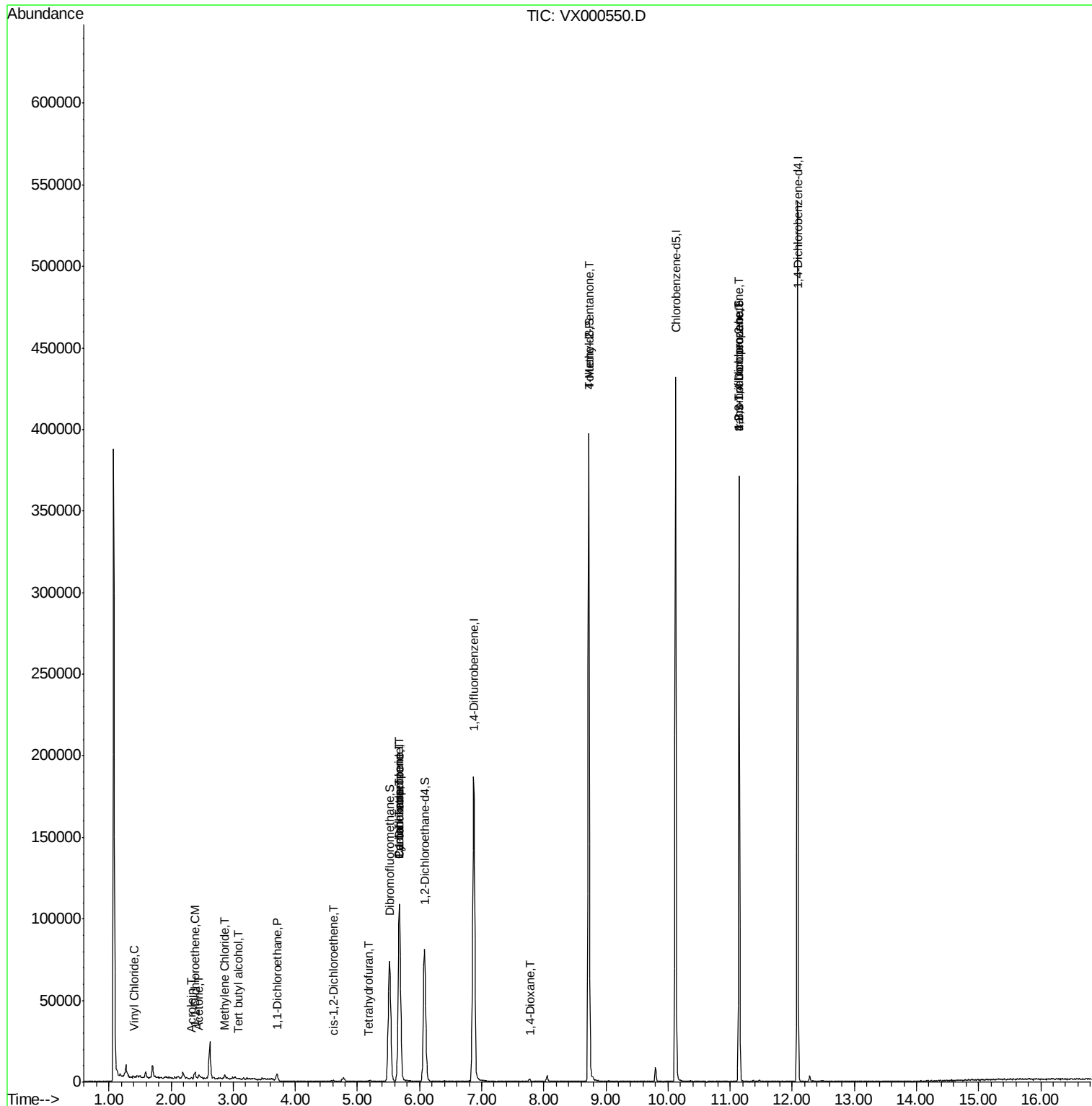
Quant Time: Mar 30 08:40:30 2018

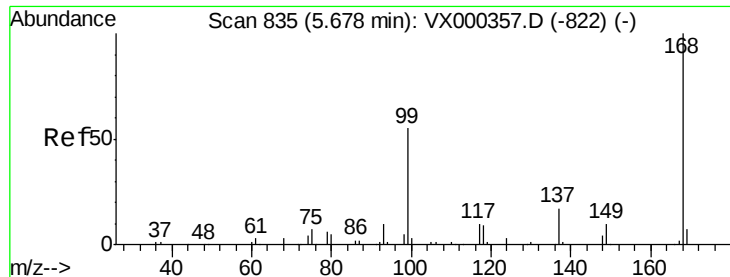
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M

Quant Title : SW846 8260

QLast Update : Wed Mar 21 04:52:42 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

Instrument :

MSVOA\_X

ClientSampleId :

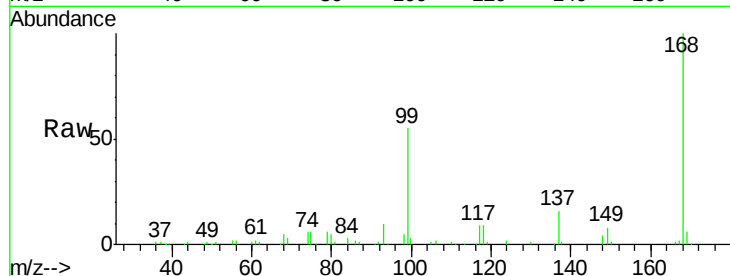
MW-4

Tgt Ion:168 Resp: 105226

Ion Ratio Lower Upper

168 100

99 55.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.68

40000

30000

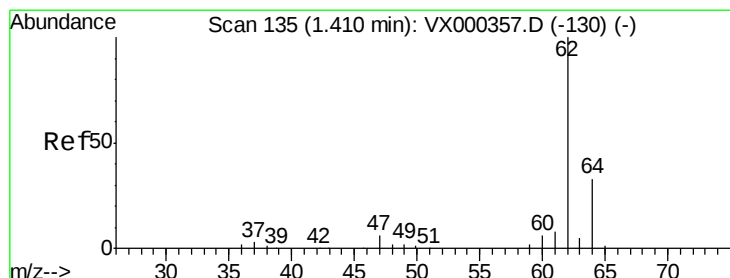
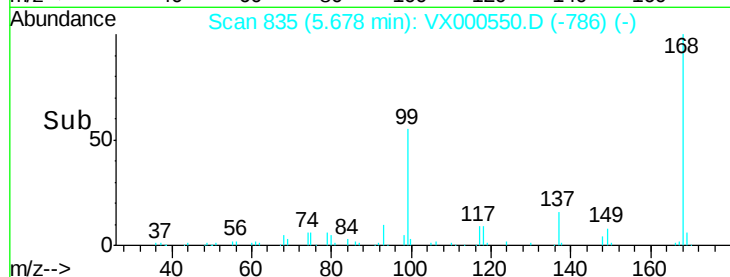
20000

10000

0

5.60 5.70 5.80

Time-->



#4

Vinyl Chloride

Concen: 0.24 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX000550.D

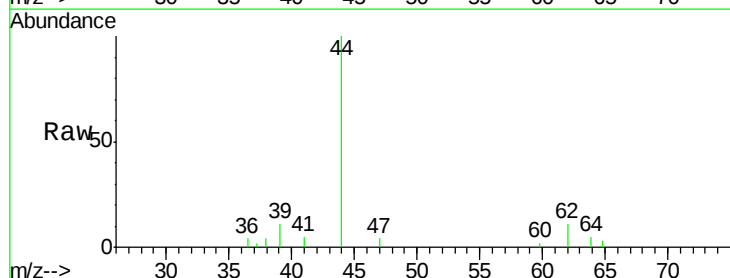
Acq: 30 Mar 2018 08:08

Tgt Ion: 62 Resp: 312

Ion Ratio Lower Upper

62 100

64 47.8 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

300

250

200

150

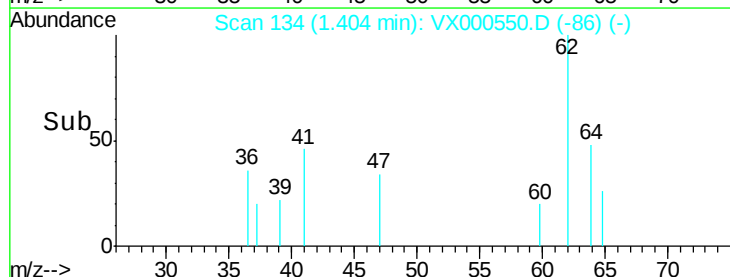
100

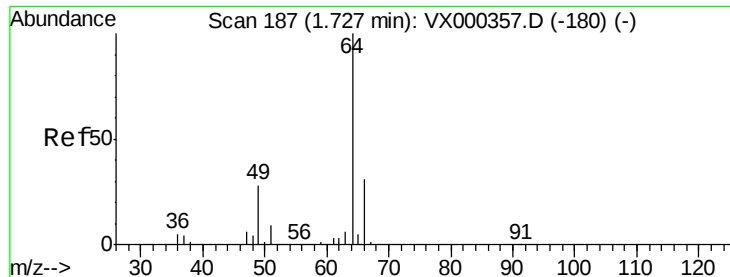
50

0

1.38 1.40 1.42 1.44

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

Instrument :

MSVOA\_X

ClientSampled :

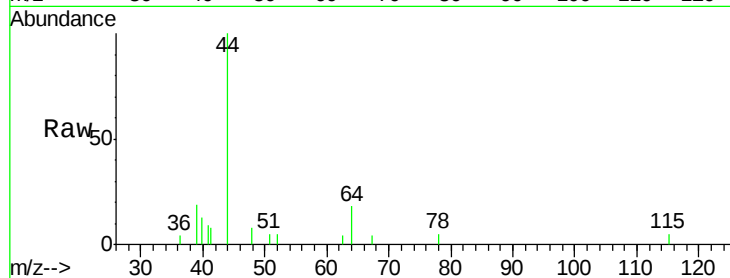
MW-4

Tgt Ion: 64 Resp: 183

Ion Ratio Lower Upper

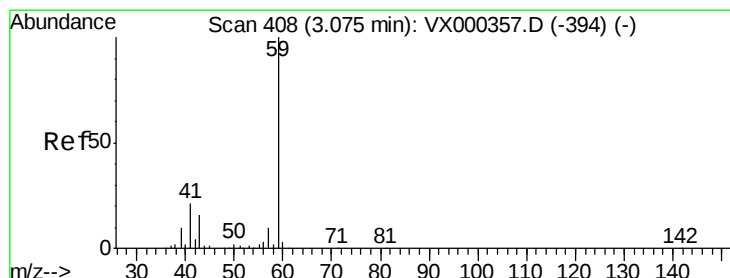
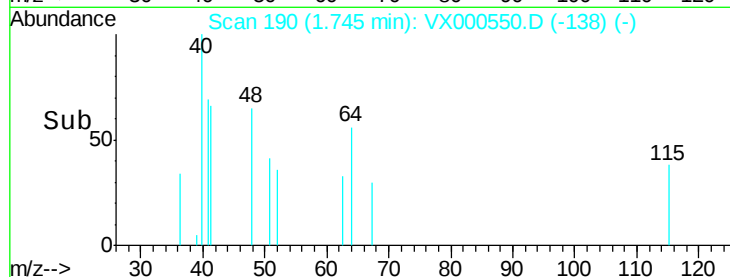
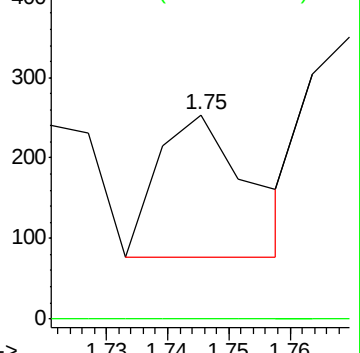
64 100

66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 0.82 ug/l

RT: 3.09 min Scan# 410

Delta R.T. 0.01 min

Lab File: VX000550.D

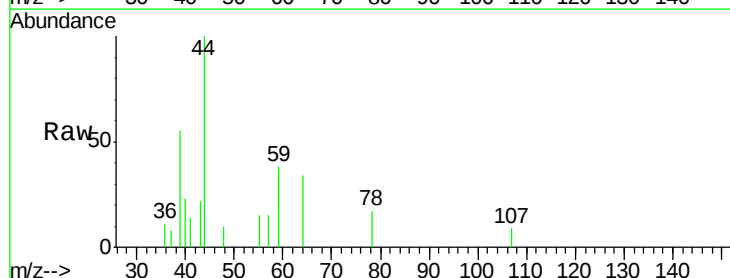
Acq: 30 Mar 2018 08:08

Tgt Ion: 59 Resp: 389

Ion Ratio Lower Upper

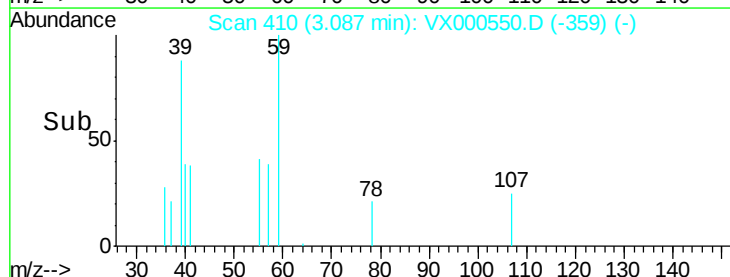
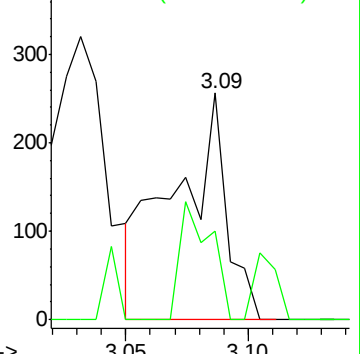
59 100

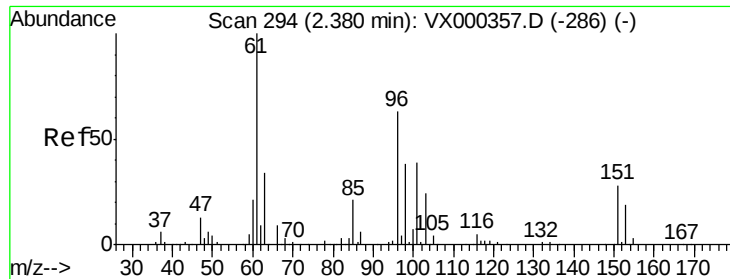
57 30.1 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.95 ug/l

RT: 2.38 min Scan# 294

Delta R.T. -0.00 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

Instrument :

MSVOA\_X

ClientSampleId :

MW-4

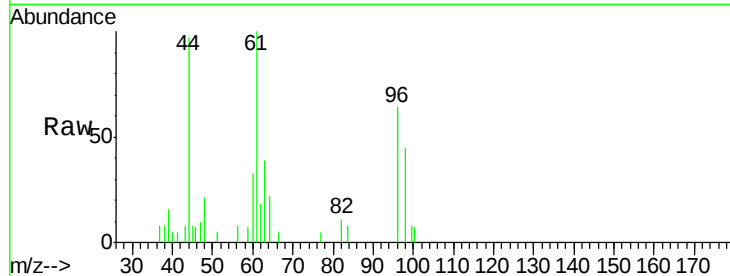
Tgt Ion: 96 Resp: 1089

Ion Ratio Lower Upper

96 100

61 155.6 131.2 196.8

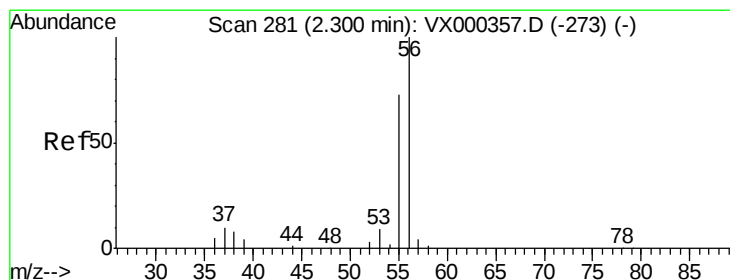
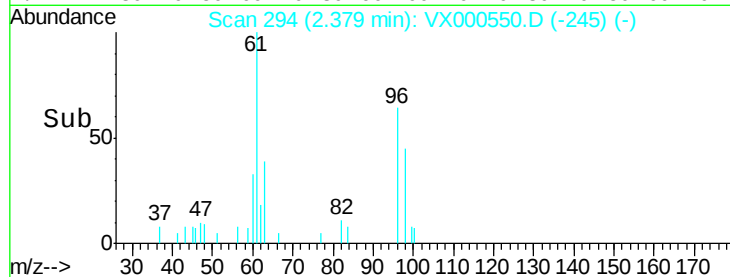
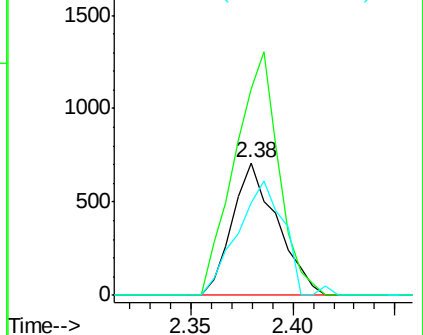
98 69.5 49.8 74.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 14.85 ug/l

RT: 2.31 min Scan# 283

Delta R.T. 0.01 min

Lab File: VX000550.D

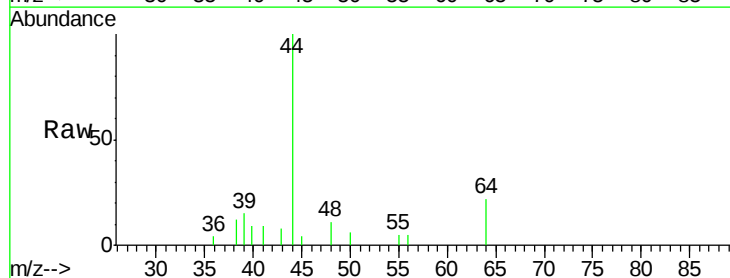
Acq: 30 Mar 2018 08:08

Tgt Ion: 56 Resp: 44

Ion Ratio Lower Upper

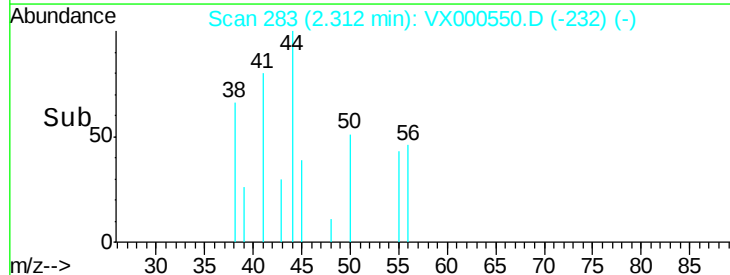
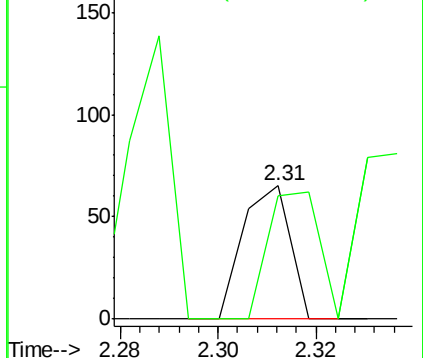
56 100

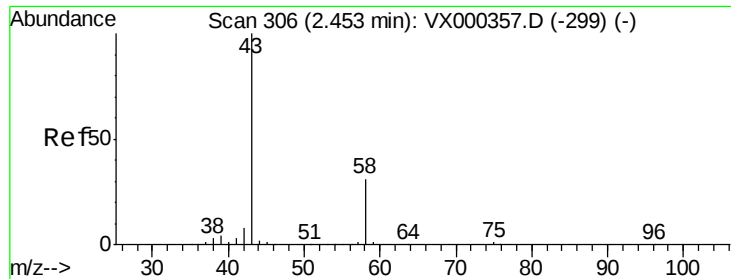
55 102.3 58.8 88.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.40 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

Instrument :

MSVOA\_X

ClientSampled :

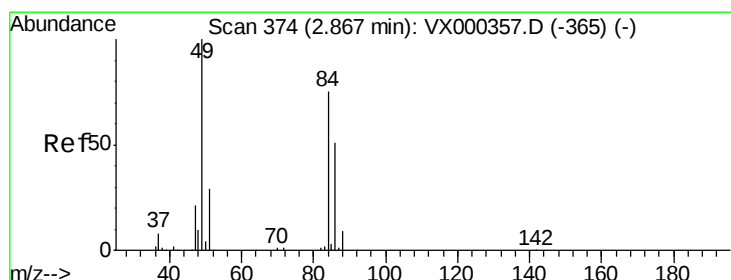
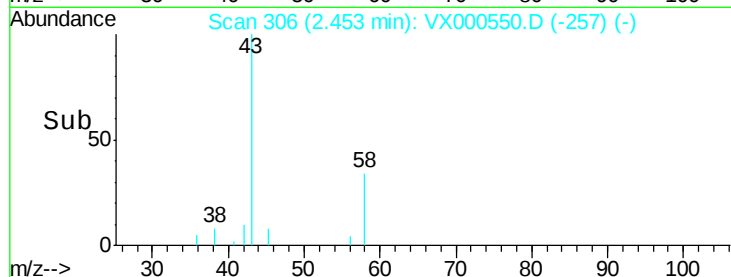
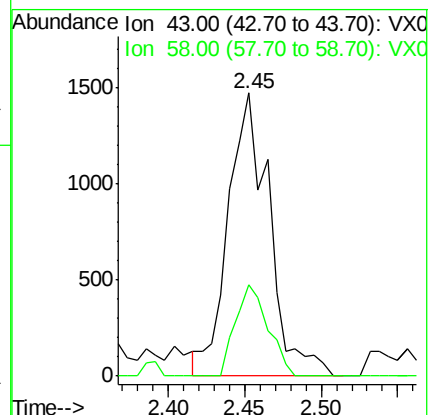
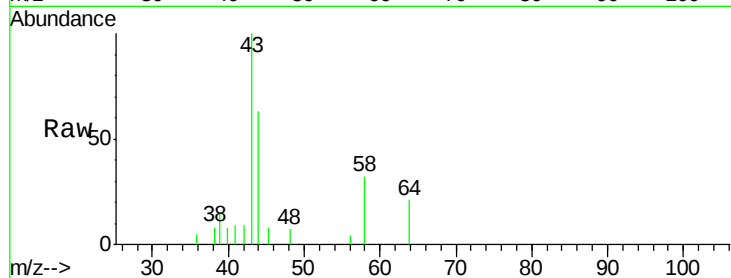
MW-4

Tgt Ion: 43 Resp: 2739

Ion Ratio Lower Upper

43 100

58 32.5 24.7 37.1



#20

Methylene Chloride

Concen: 0.46 ug/l

RT: 2.85 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

Tgt Ion: 84 Resp: 602

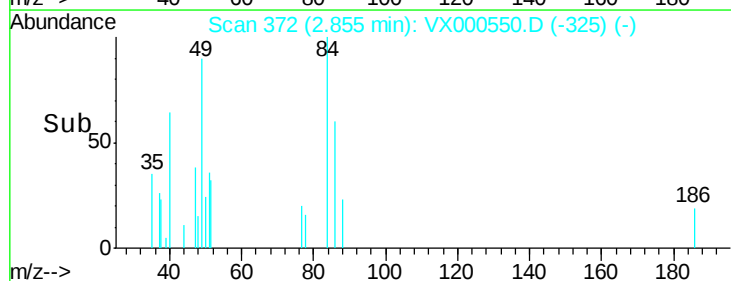
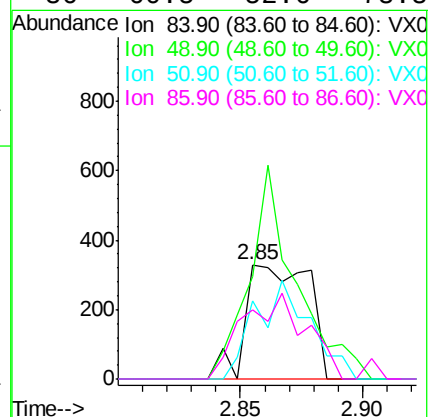
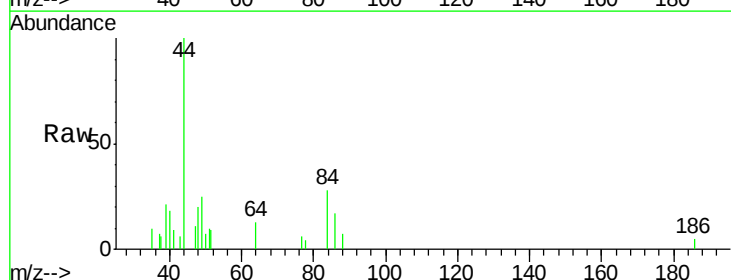
Ion Ratio Lower Upper

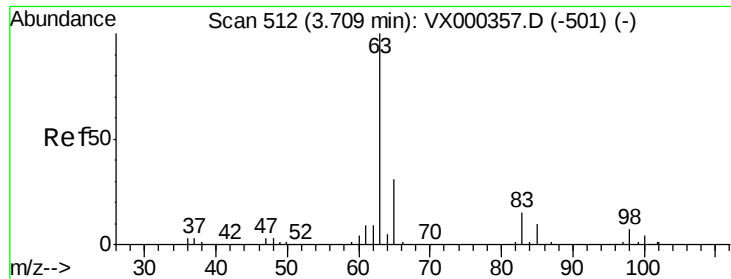
84 100

49 90.0 100.6 151.0#

51 68.1 31.6 47.4#

86 60.5 52.6 78.8

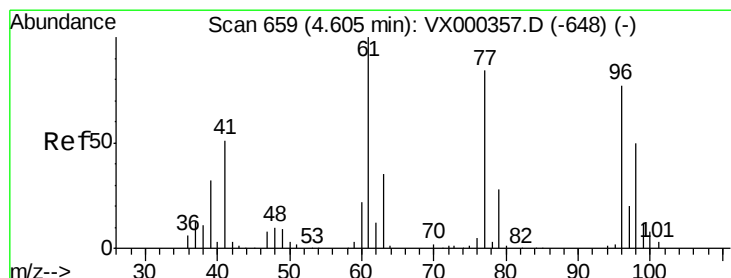
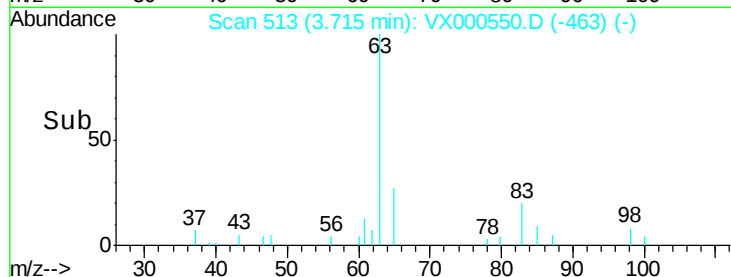
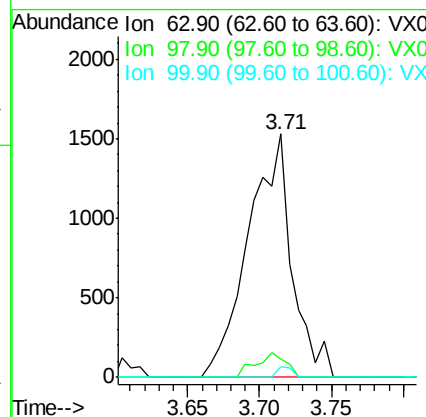
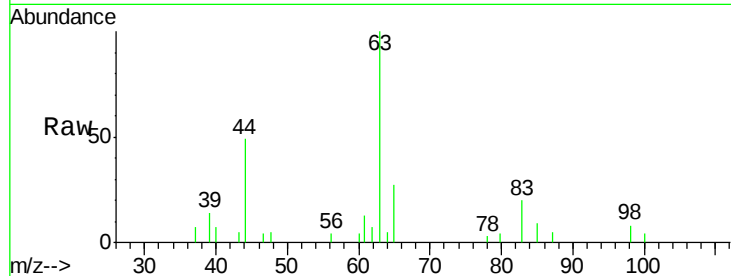




#24  
 1,1-Dichloroethane  
 Concen: 1.44 ug/l  
 RT: 3.71 min Scan# 513  
 Delta R.T. 0.01 min  
 Lab File: VX000550.D  
 Acq: 30 Mar 2018 08:08

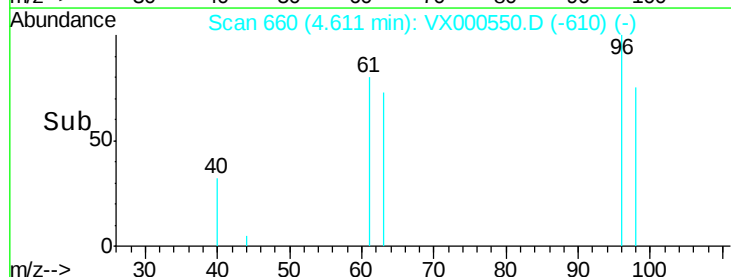
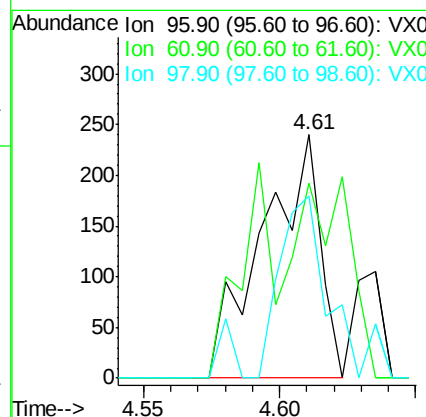
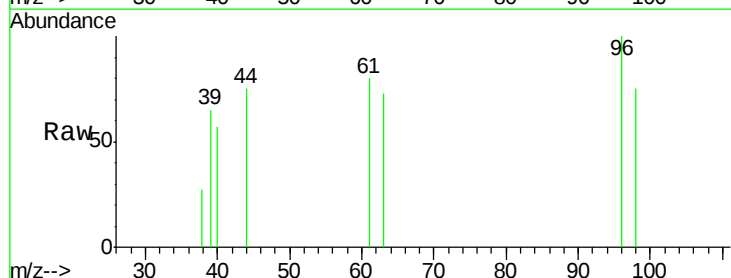
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-4

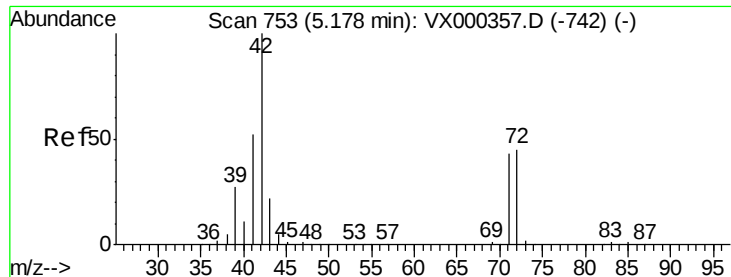
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 3218  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 7.6   | 3.3   | 9.9   |
| 100      | 4.4   | 2.0   | 5.8   |



#27  
 cis-1,2-Dichloroethene  
 Concen: 0.30 ug/l  
 RT: 4.61 min Scan# 660  
 Delta R.T. 0.01 min  
 Lab File: VX000550.D  
 Acq: 30 Mar 2018 08:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 351   |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 63.2  | 0.0   | 291.6 |
| 98       | 65.5  | 0.0   | 132.0 |

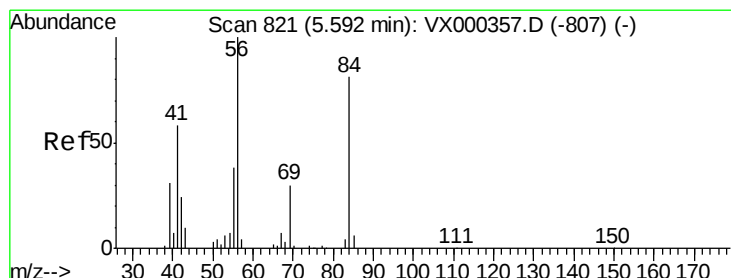
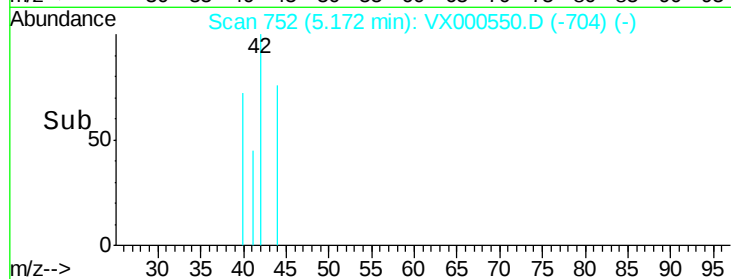
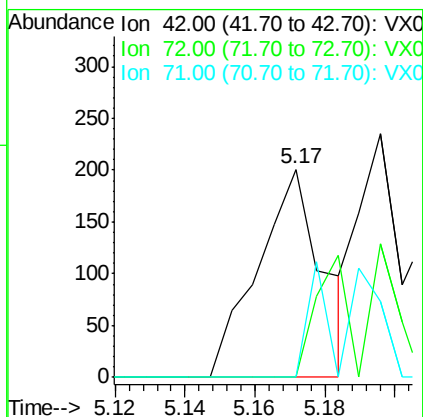
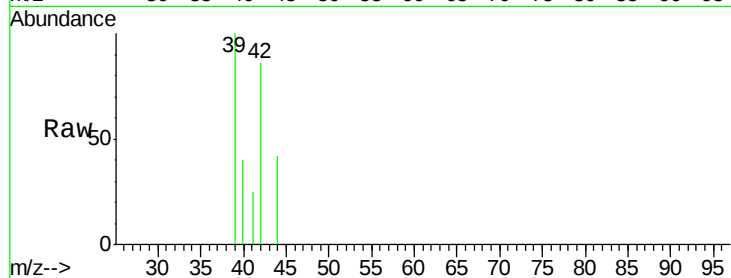




#29  
Tetrahydrofuran  
Concen: 0.33 ug/l  
RT: 5.17 min Scan# 752  
Delta R.T. -0.01 min  
Lab File: VX000550.D  
Acq: 30 Mar 2018 08:08

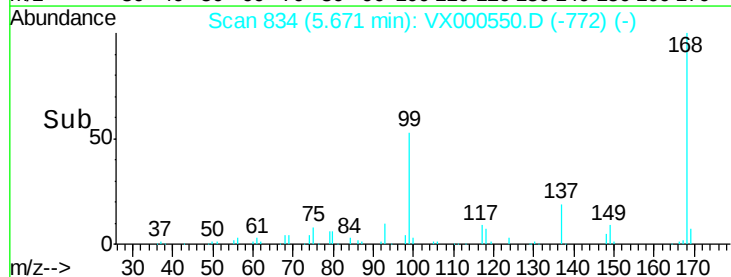
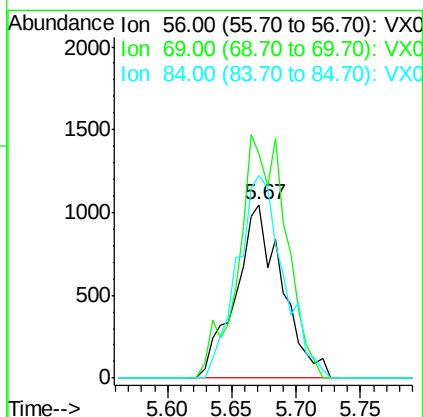
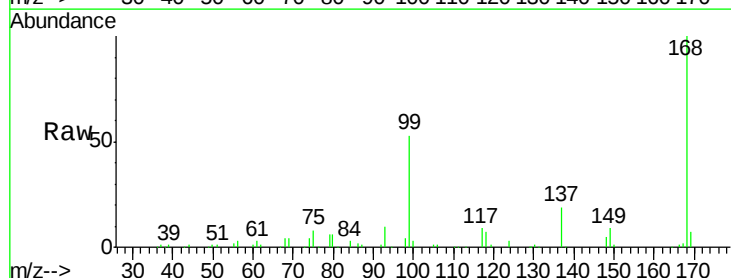
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-4

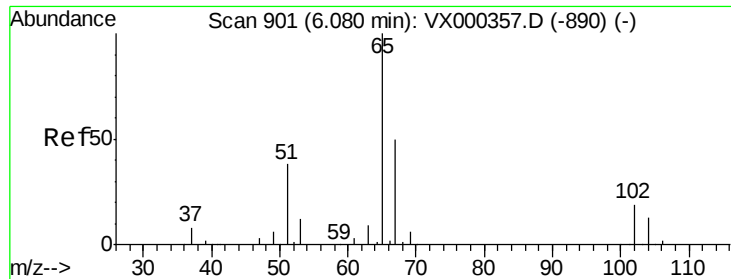
Tgt Ion: 42 Resp: 257  
Ion Ratio Lower Upper  
42 100  
72 0.0 37.9 56.9#  
71 16.0 34.4 51.6#



#31  
Cyclohexane  
Concen: 1.52 ug/l  
RT: 5.67 min Scan# 834  
Delta R.T. 0.08 min  
Lab File: VX000550.D  
Acq: 30 Mar 2018 08:08

Tgt Ion: 56 Resp: 2626  
Ion Ratio Lower Upper  
56 100  
69 129.2 23.4 35.0#  
84 116.9 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 54.82 ug/l

RT: 6.08 min Scan# 901

Delta R.T. -0.00 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

Instrument :

MSVOA\_X

ClientSampleId :

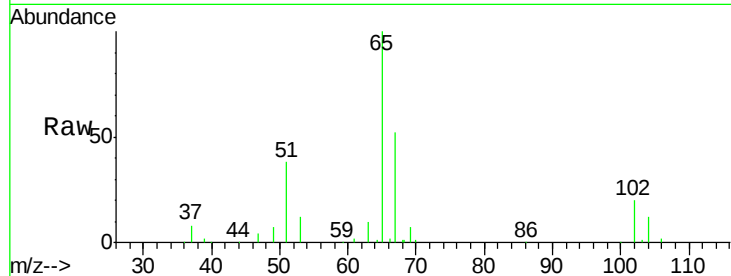
MW-4

Tgt Ion: 65 Resp: 75305

Ion Ratio Lower Upper

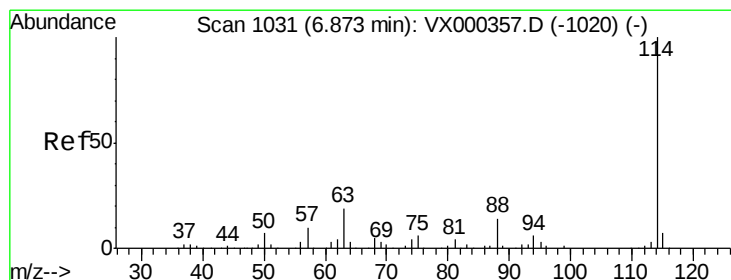
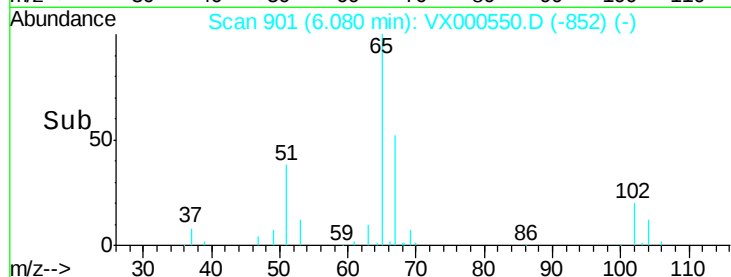
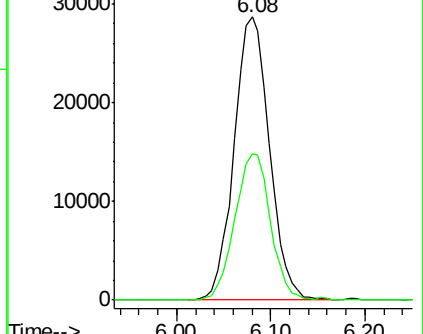
65 100

67 51.8 0.0 103.2



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# 1031

Delta R.T. -0.00 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

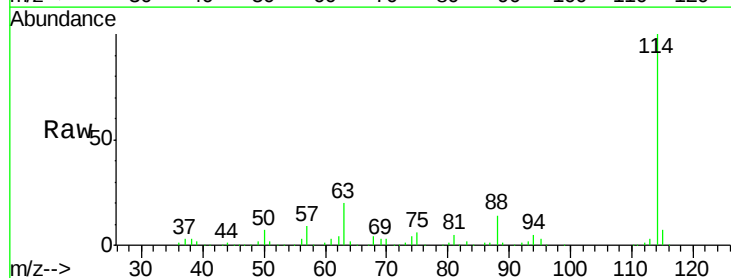
Tgt Ion: 114 Resp: 185671

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.4

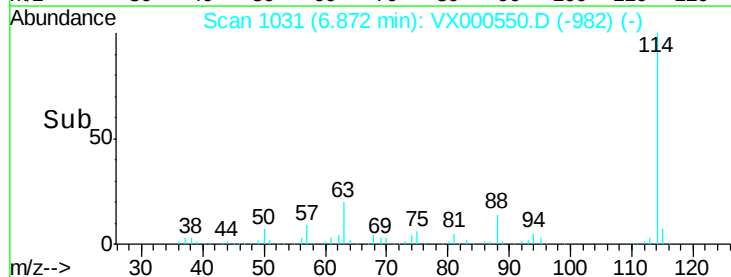
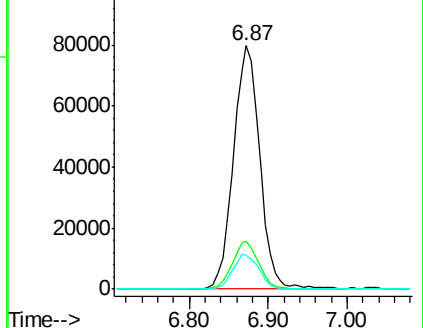
88 13.8 0.0 27.0

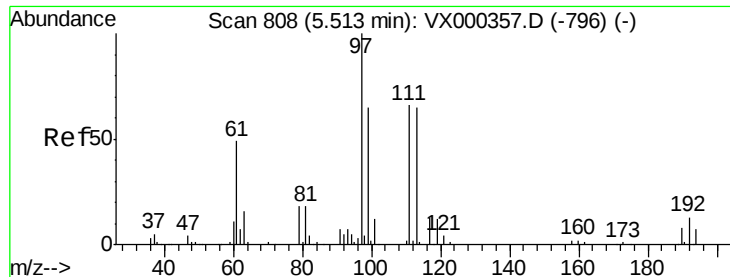


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.86 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

Instrument :

MSVOA\_X

ClientSampled :

MW-4

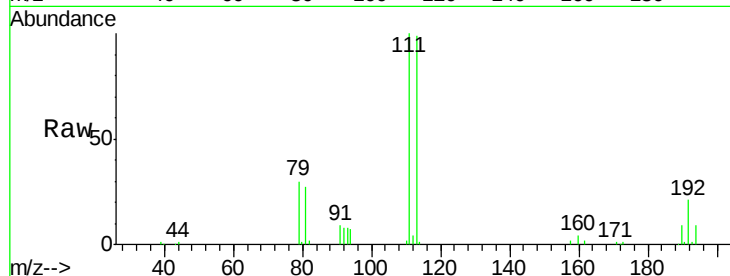
Tgt Ion:113 Resp: 58336

Ion Ratio Lower Upper

113 100

111 101.9 82.4 123.6

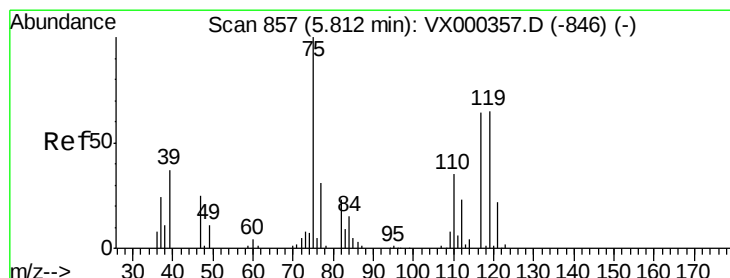
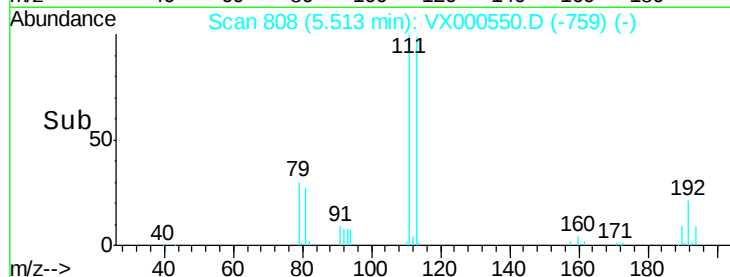
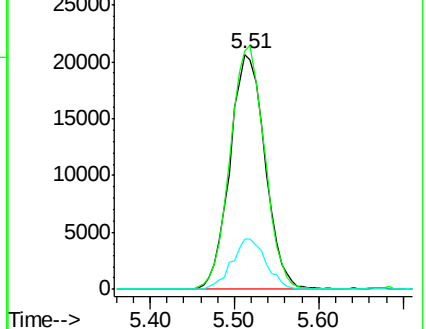
192 20.8 15.8 23.6



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: 4.77 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.14 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

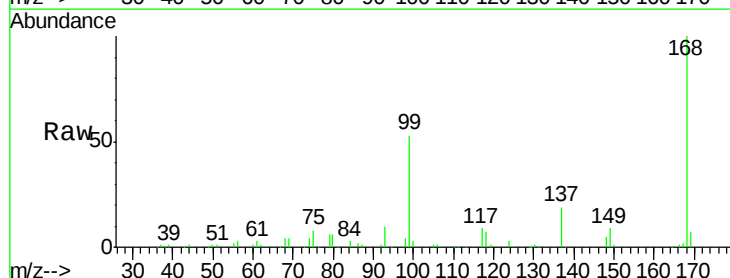
Tgt Ion: 75 Resp: 8302

Ion Ratio Lower Upper

75 100

110 4.2 17.9 53.7#

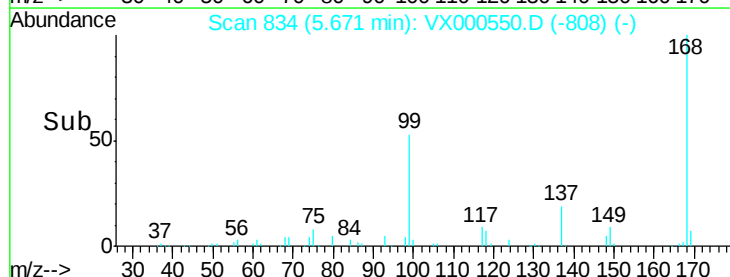
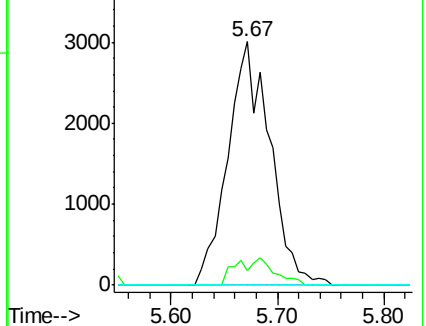
77 0.0 24.0 36.0#

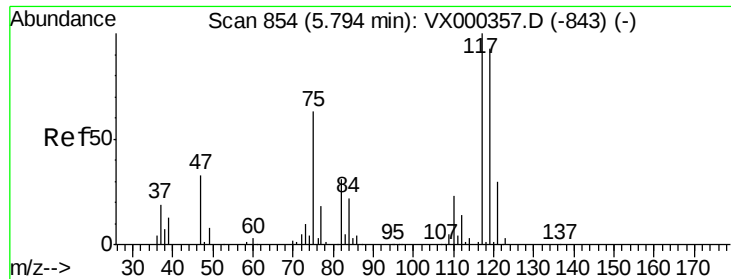


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

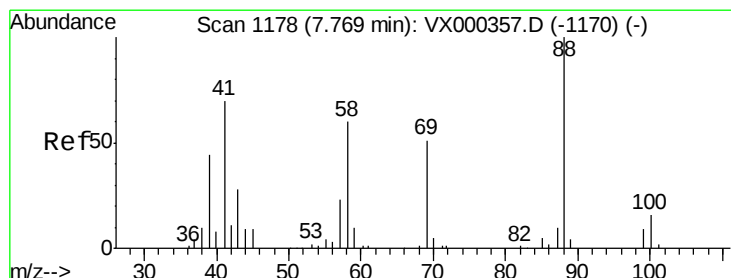
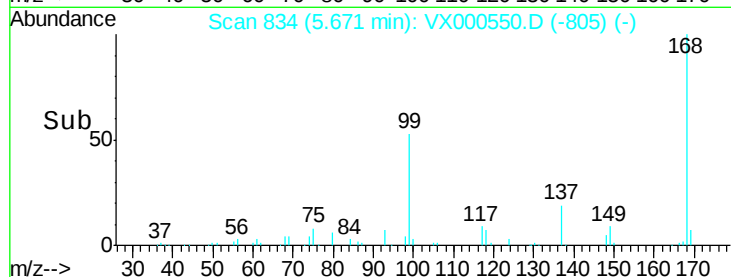
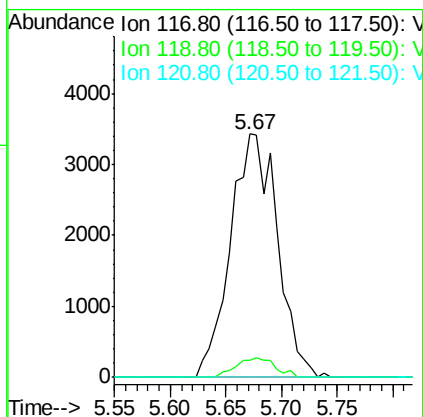
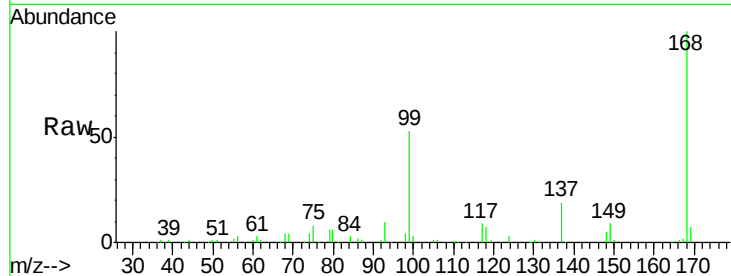




#38  
Carbon Tetrachloride  
Concen: 5.50 ug/l  
RT: 5.67 min Scan# 834  
Delta R.T. -0.12 min  
Lab File: VX000550.D  
Acq: 30 Mar 2018 08:08

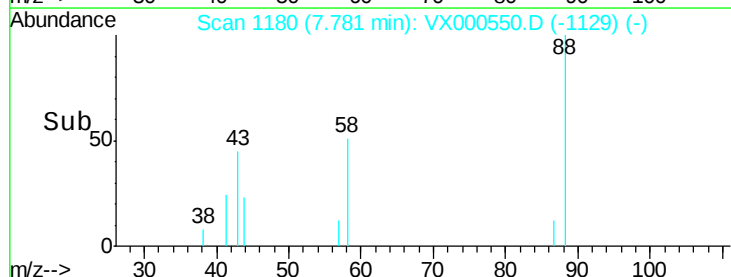
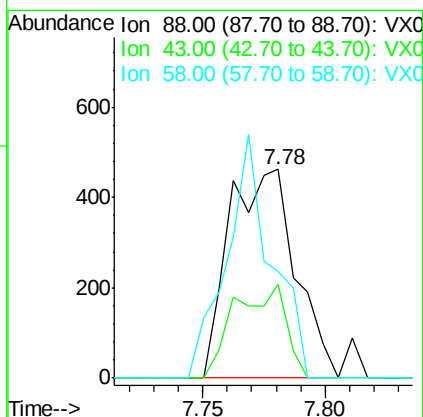
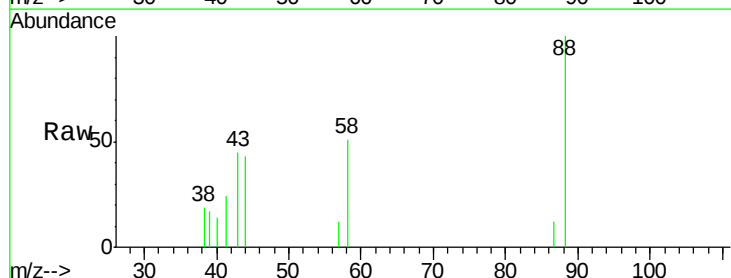
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-4

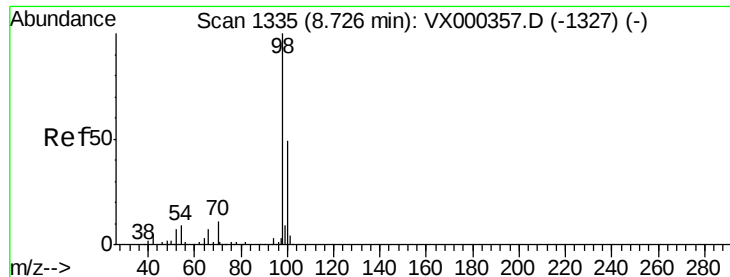
Tgt Ion: 117 Resp: 10031  
Ion Ratio Lower Upper  
117 100  
119 7.2 77.4 116.2#  
121 0.0 24.8 37.2#



#49  
1,4-Dioxane  
Concen: 24.44 ug/l  
RT: 7.78 min Scan# 1180  
Delta R.T. 0.01 min  
Lab File: VX000550.D  
Acq: 30 Mar 2018 08:08

Tgt Ion: 88 Resp: 882  
Ion Ratio Lower Upper  
88 100  
43 34.4 26.8 40.2  
58 77.7 52.2 78.2

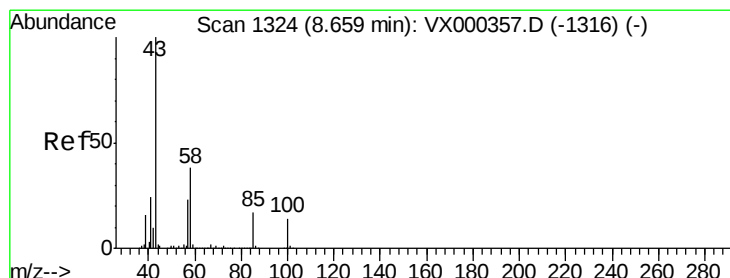
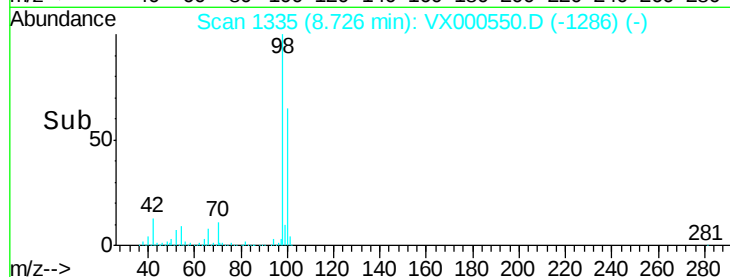
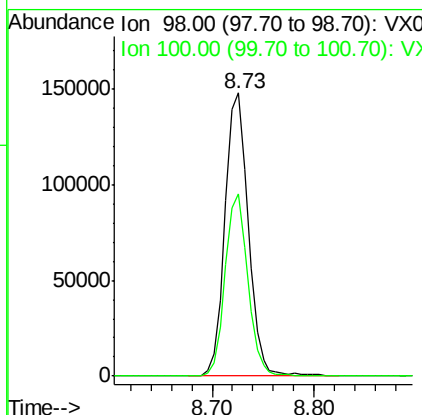
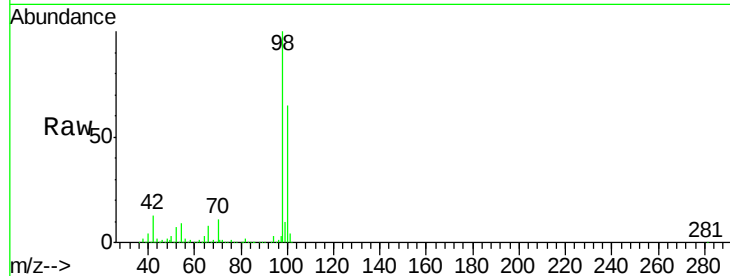




#50  
Toluene-d8  
Concen: 48.50 ug/l  
RT: 8.73 min Scan# 1335  
Delta R.T. -0.00 min  
Lab File: VX000550.D  
Acq: 30 Mar 2018 08:08

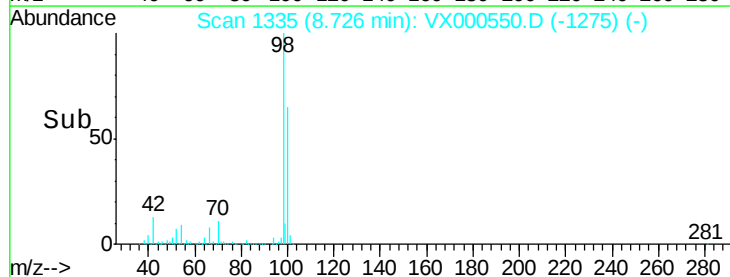
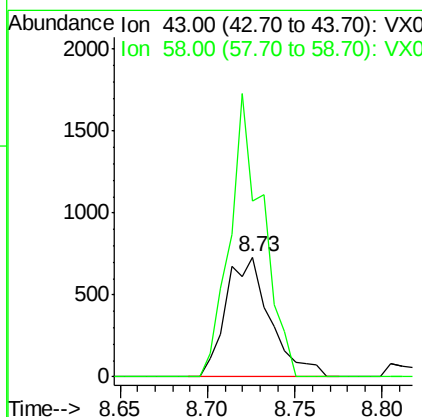
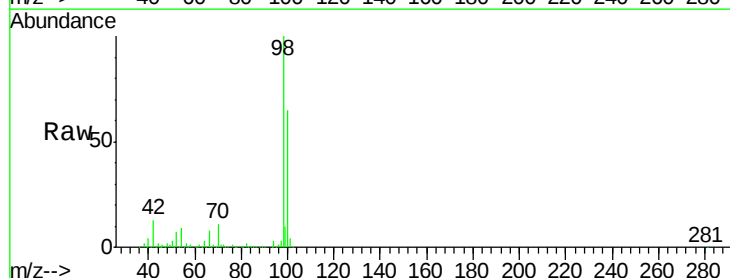
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-4

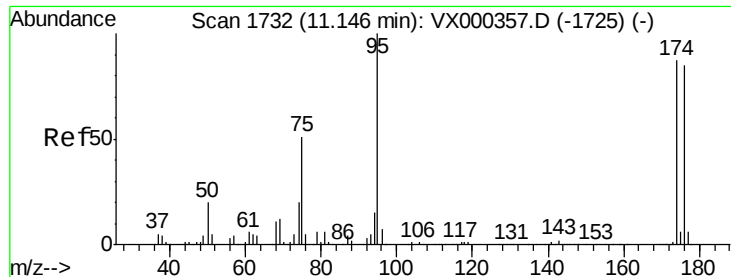
Tgt Ion: 98 Resp: 234997  
Ion Ratio Lower Upper  
98 100  
100 62.7 51.2 76.8



#51  
4-Methyl-2-Pentanone  
Concen: 0.47 ug/l  
RT: 8.73 min Scan# 1335  
Delta R.T. 0.07 min  
Lab File: VX000550.D  
Acq: 30 Mar 2018 08:08

Tgt Ion: 43 Resp: 1292  
Ion Ratio Lower Upper  
43 100  
58 175.2 30.3 45.5#





#62

4-Bromofluorobenzene

Concen: 41.16 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

Instrument :

MSVOA\_X

ClientSampleId :

MW-4

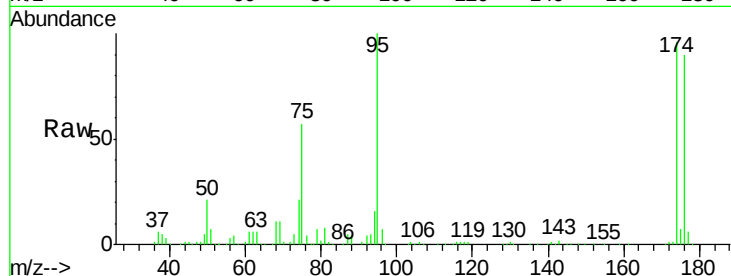
Tgt Ion: 95 Resp: 81717

Ion Ratio Lower Upper

95 100

174 92.5 0.0 173.6

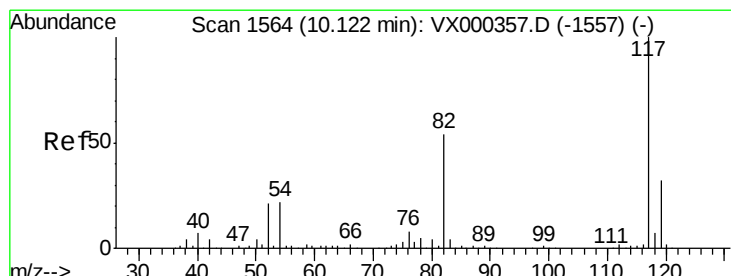
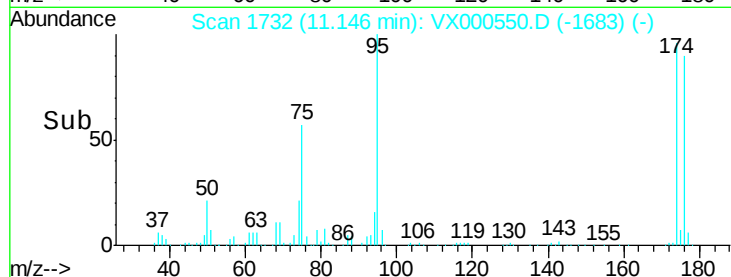
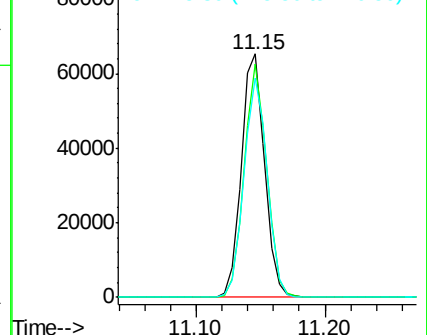
176 90.0 0.0 164.6



Abundance Ion 94.90 (94.60 to 95.60): VX000357.D (-1725) (-)

Ion 173.80 (173.50 to 174.50): VX000357.D (-1725) (-)

Ion 175.80 (175.50 to 176.50): VX000357.D (-1725) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

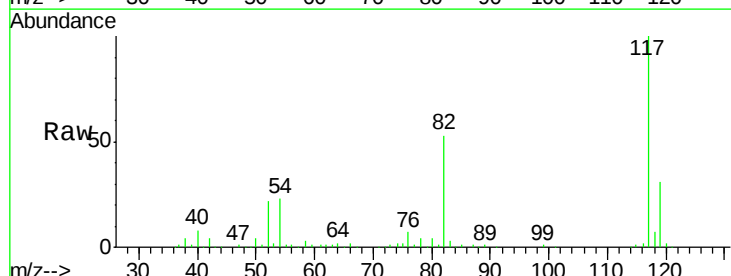
Tgt Ion: 117 Resp: 186603

Ion Ratio Lower Upper

117 100

82 53.4 43.8 65.8

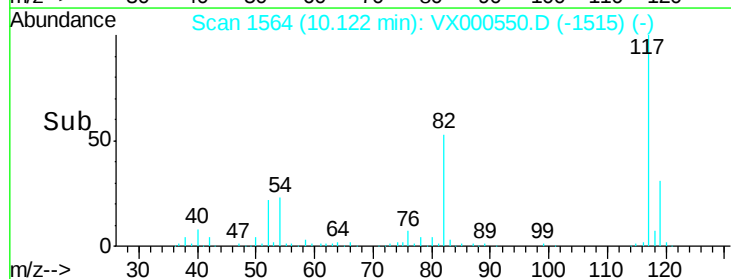
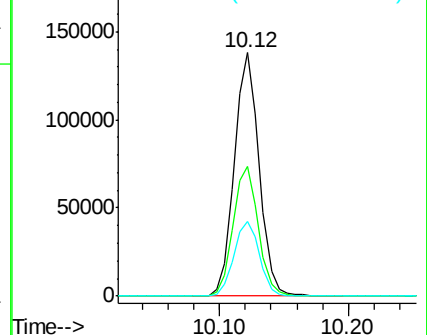
119 30.8 24.9 37.3

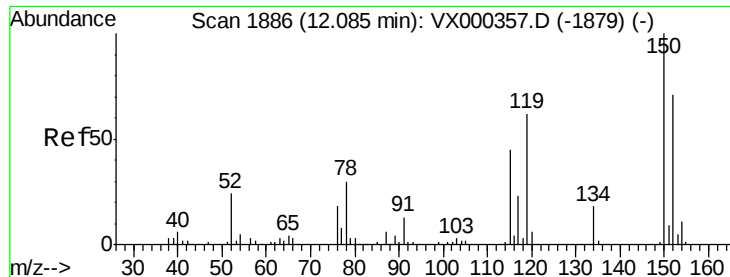


Abundance Ion 116.90 (116.60 to 117.60): VX000357.D (-1557) (-)

Ion 82.00 (81.70 to 82.70): VX000357.D (-1557) (-)

Ion 118.90 (118.60 to 119.60): VX000357.D (-1557) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

Instrument :

MSVOA\_X

ClientSampleId :

MW-4

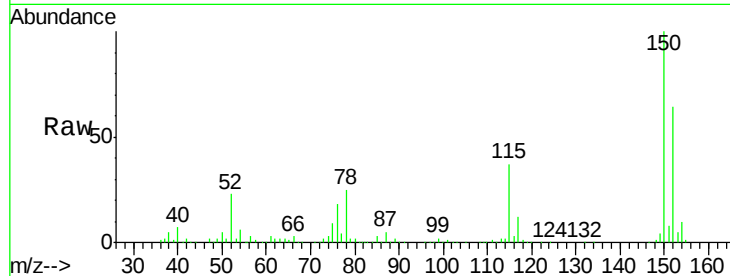
Tgt Ion:152 Resp: 98451

Ion Ratio Lower Upper

152 100

115 56.8 39.8 119.3

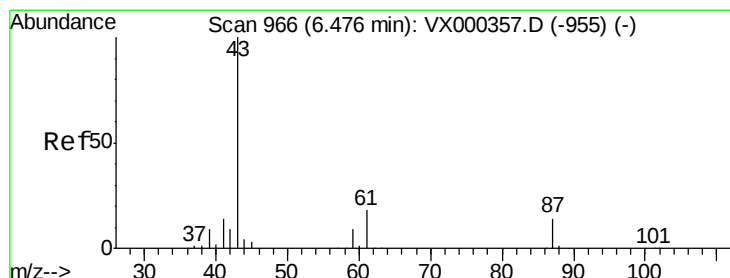
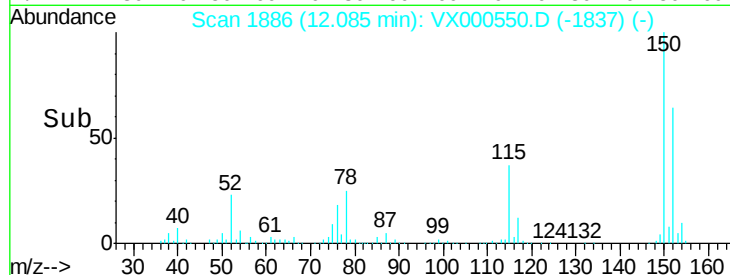
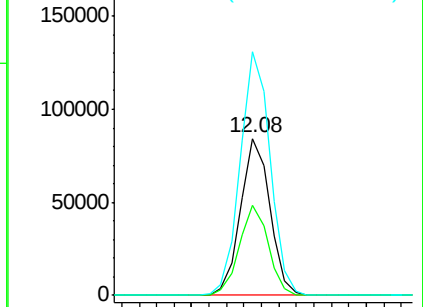
150 158.7 0.0 344.4



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 6.38 min Scan# 951

Delta R.T. -0.09 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

Tgt Ion: 43 Resp: 75

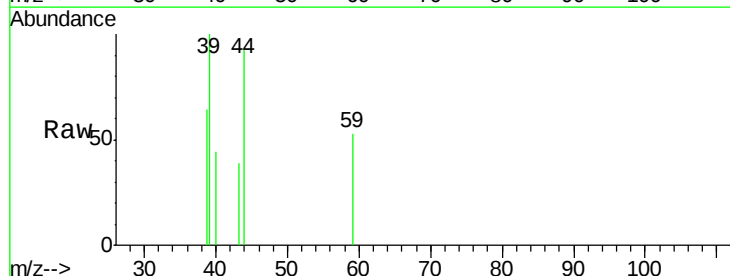
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 146.7 0.0 0.0#

61 0.0 14.4 21.6#

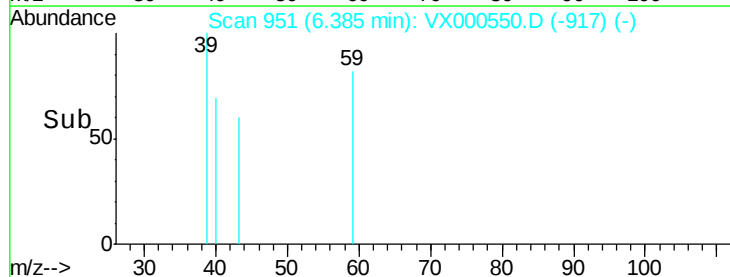
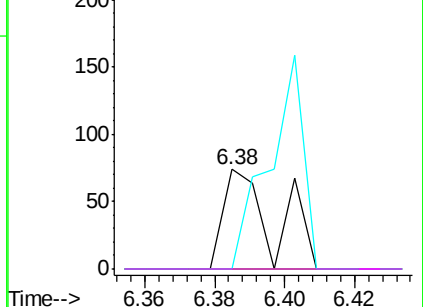


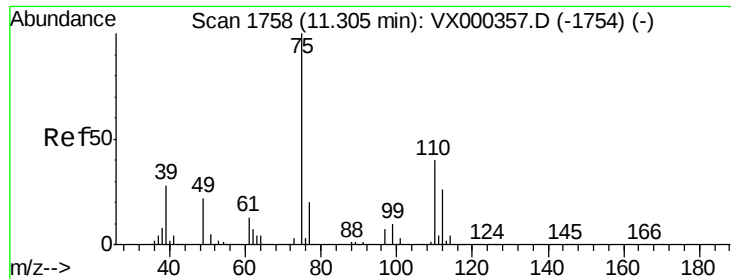
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.79 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

Instrument :

MSVOA\_X

ClientSampleId :

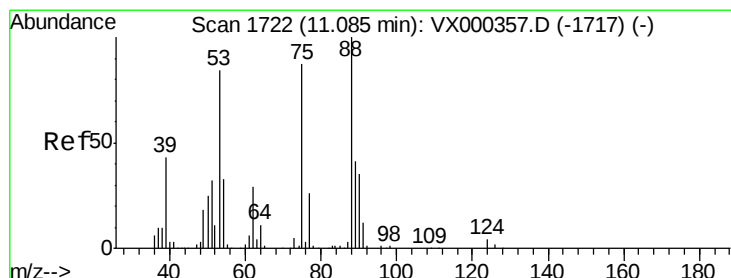
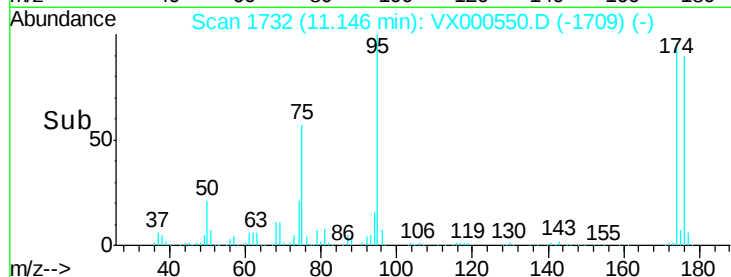
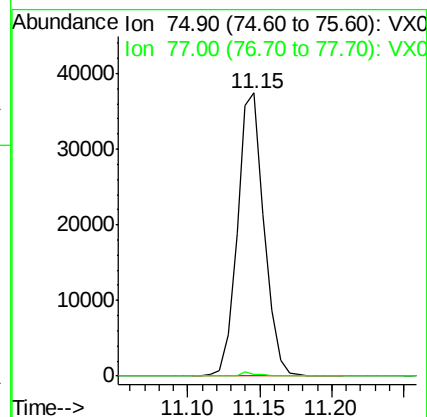
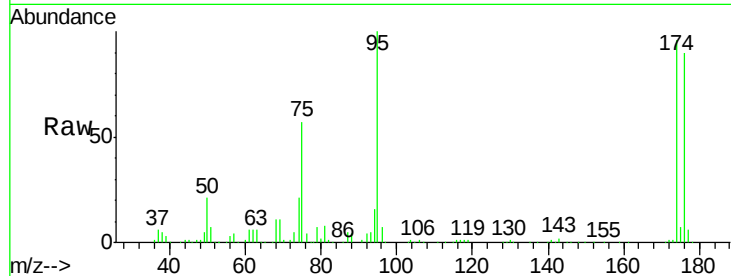
MW-4

Tgt Ion: 75 Resp: 48218

Ion Ratio Lower Upper

75 100

77 0.9 21.4 64.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.78 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000550.D

Acq: 30 Mar 2018 08:08

Tgt Ion: 75 Resp: 48218

Ion Ratio Lower Upper

75 100

53 0.1 80.7 121.1#

89 0.0 39.4 59.0#

