

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071318\  
 Data File : VW003921.D  
 Acq On : 13 Jul 2018 18:02  
 Operator : VA/AP  
 Sample : VW0713SBL01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jul 13 23:53:07 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 07 05:07:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 199651   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 330086   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 306357   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 149133   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 131917   | 50.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.06% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 114777   | 49.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.36%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 424781   | 48.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.14%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 144054   | 45.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.10%  |          |

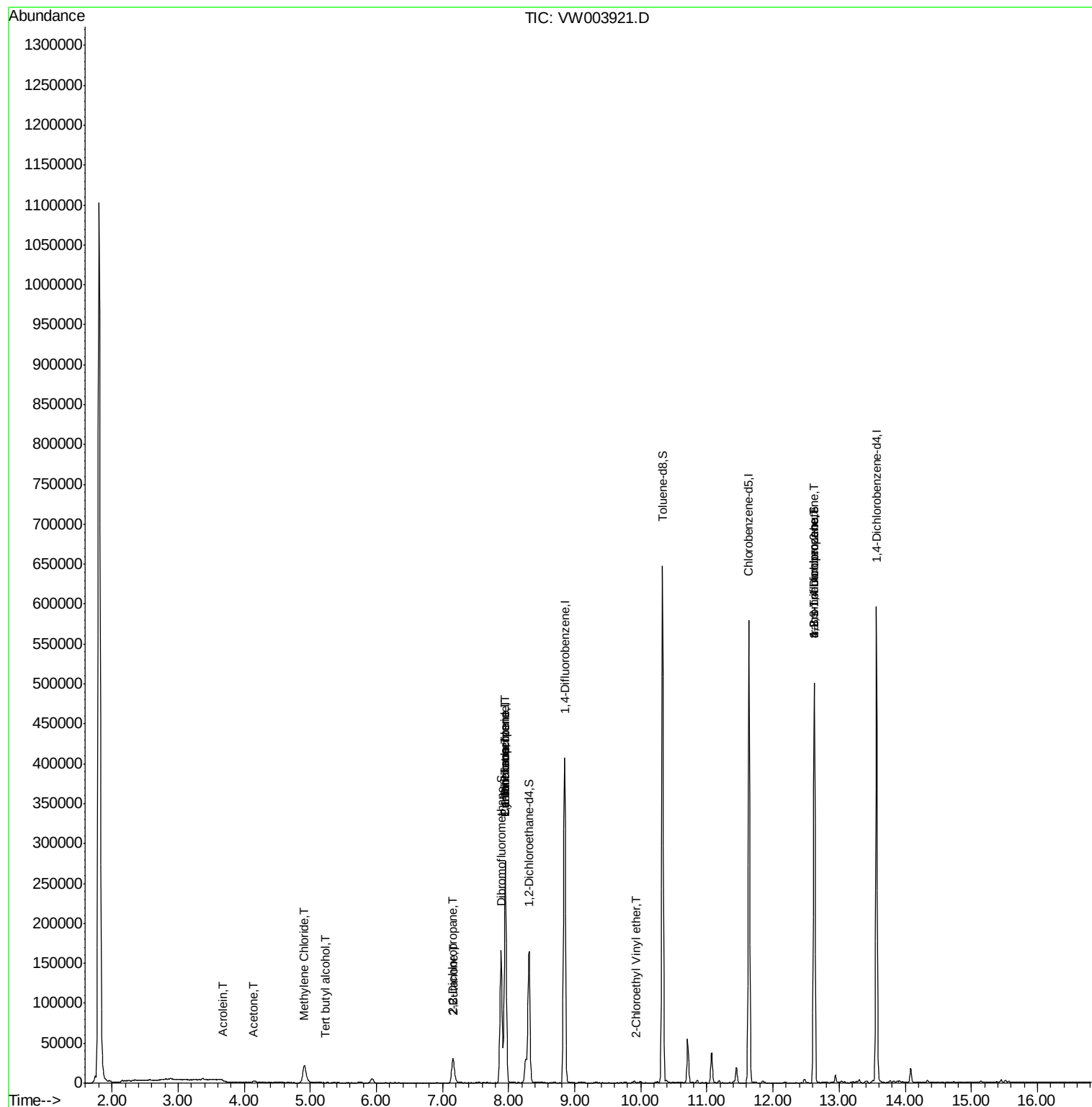
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.23  | 59   | 164      | 1.159   | ug/l # | 70     |
| 13) Acrolein                   | 3.68  | 56   | 51       | 4.955   | ug/l # | 14     |
| 16) Acetone                    | 4.14  | 43   | 3980     | 8.786   | ug/l   | 94     |
| 20) Methylene Chloride         | 4.91  | 84   | 18294    | 4.278   | ug/l   | 95     |
| 25) 2-Butanone                 | 7.17  | 43   | 2070     | 2.918   | ug/l # | 73     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 2359     | 1.003   | ug/l # | 53     |
| 31) Cyclohexane                | 7.95  | 56   | 5434     | 1.426   | ug/l # | 13     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 16831    | 4.806   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 20285    | 6.092   | ug/l # | 16     |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 77       | 13.227  | ug/l # | 49     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 78485    | 53.593  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 78485    | 131.101 | ug/l # | 8      |

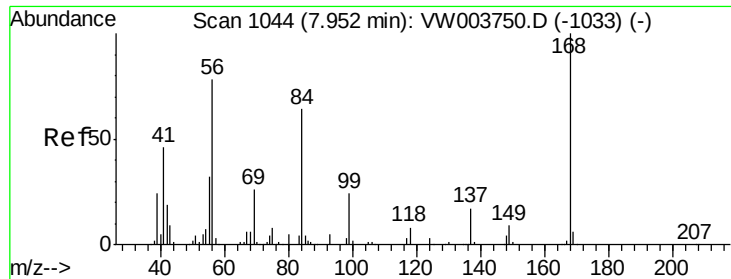
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Jul 13 23:53:07 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 07 05:07:25 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW003921.D

Acq: 13 Jul 2018 18:02

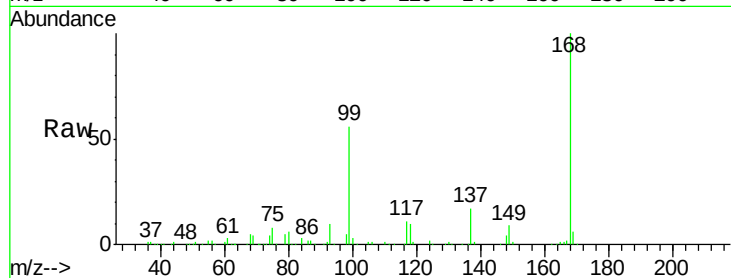
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 199651

Ion Ratio Lower Upper

168 100

99 56.2 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

60000

40000

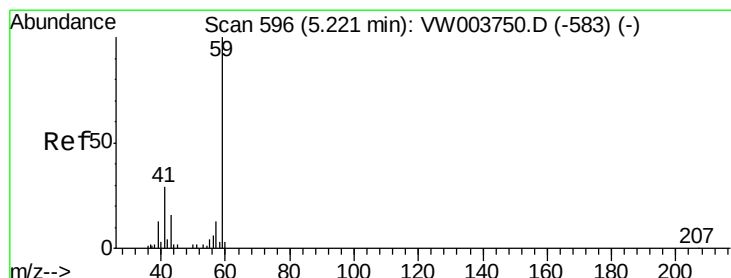
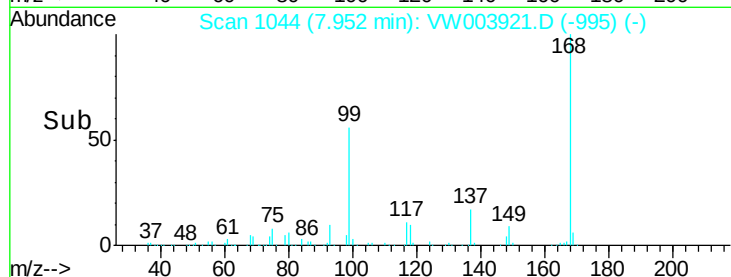
20000

0

7.90

8.00

Time-->



#11

Tert butyl alcohol

Concen: 1.159 ug/l

RT: 5.23 min Scan# 597

Delta R.T. 0.01 min

Lab File: VW003921.D

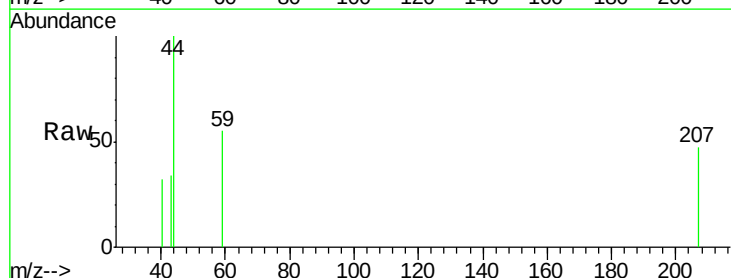
Acq: 13 Jul 2018 18:02

Tgt Ion: 59 Resp: 164

Ion Ratio Lower Upper

59 100

57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

150

100

50

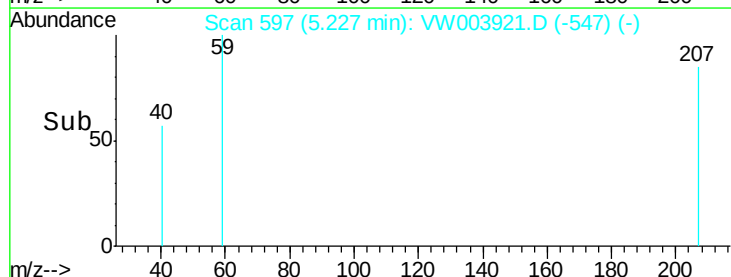
0

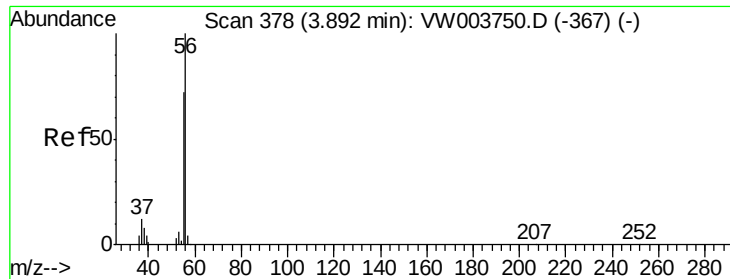
5.20

5.22

5.24

Time-->





#13

Acrolein

Concen: 4.955 ug/l

RT: 3.68 min Scan# 344

Delta R.T. -0.21 min

Lab File: VW003921.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA\_W

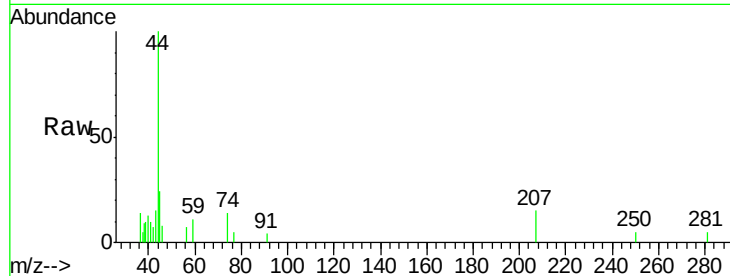
ClientSampled :

Tot Ion: 56 Resp: 51

Ion Ratio Lower Upper

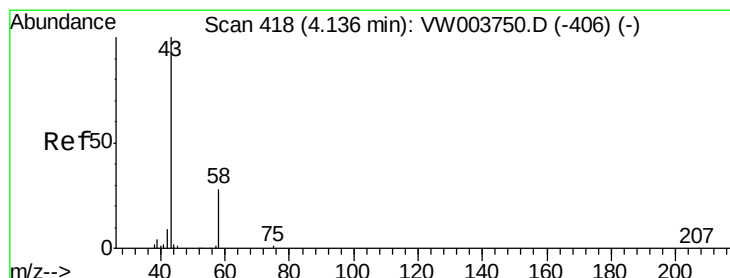
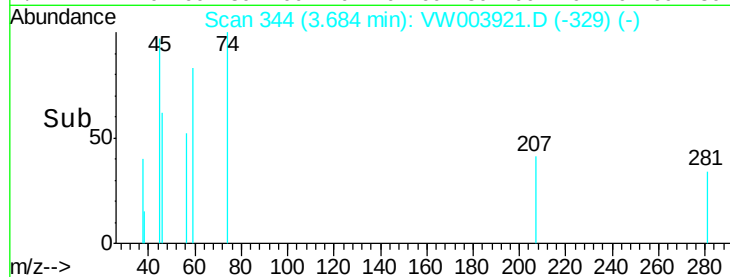
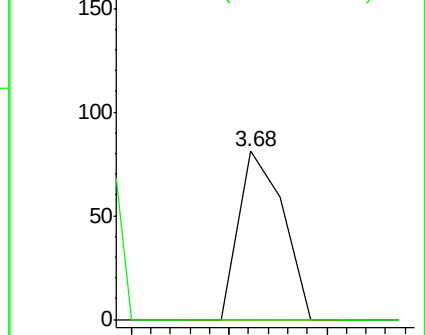
56 100

55 0.0 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 8.786 ug/l

RT: 4.14 min Scan# 419

Delta R.T. 0.01 min

Lab File: VW003921.D

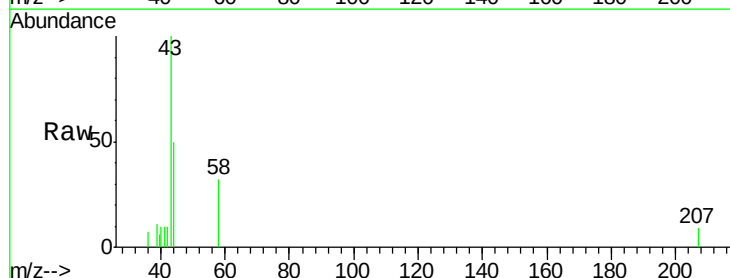
Acq: 13 Jul 2018 18:02

Tgt Ion: 43 Resp: 3980

Ion Ratio Lower Upper

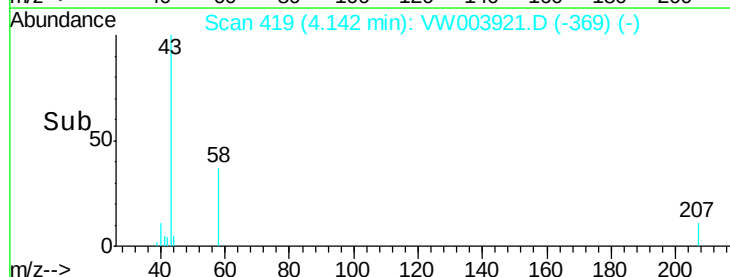
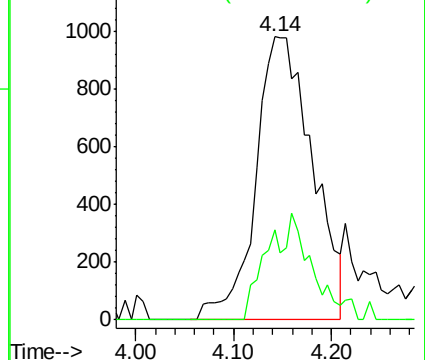
43 100

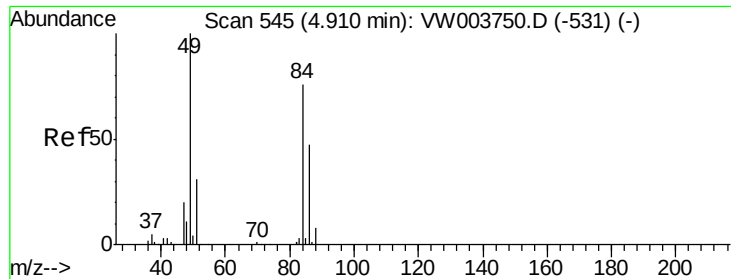
58 31.7 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

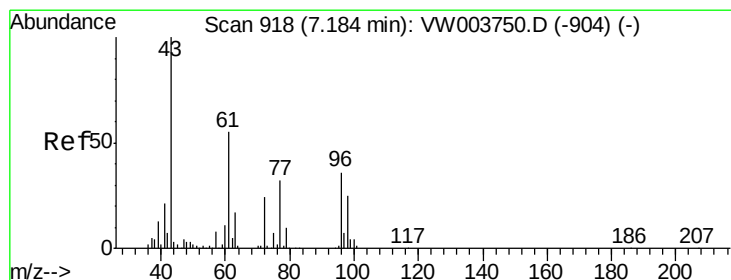
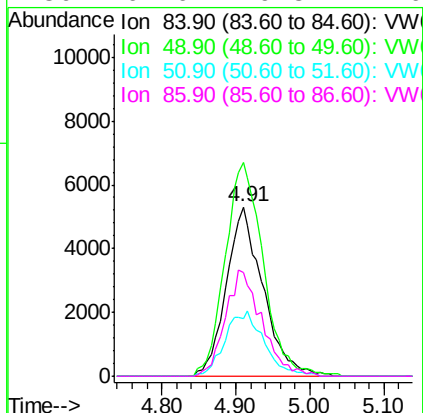
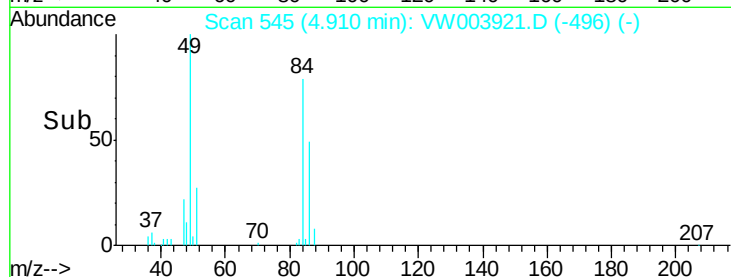
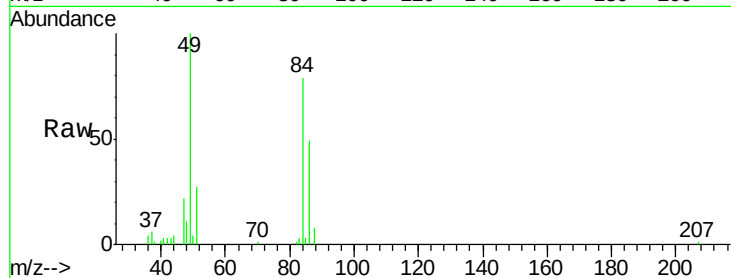




#20  
Methvlene Chloride  
Concen: 4.278 ug/l  
RT: 4.91 min Scan# 545  
Delta R.T. 0.00 min  
Lab File: VW003921.D  
Acq: 13 Jul 2018 18:02

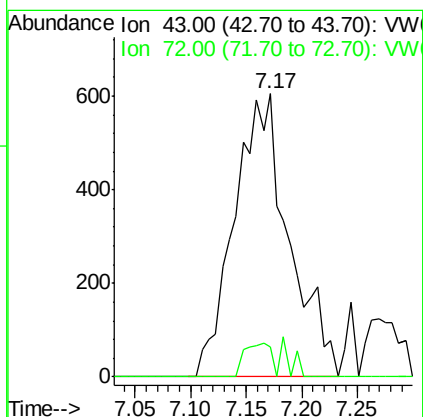
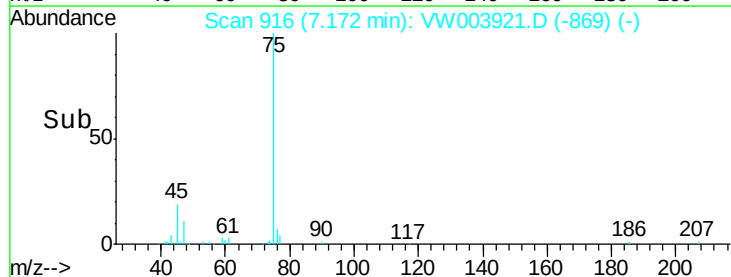
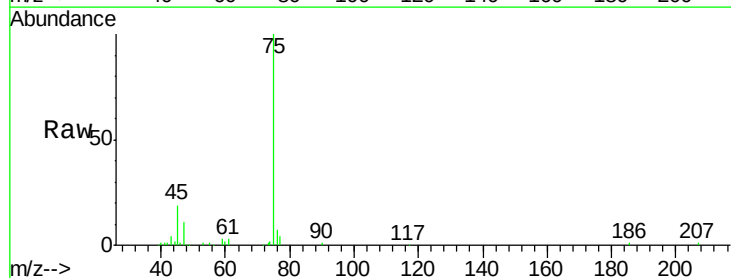
Instrument :  
MSVOA\_W  
ClientSampled :

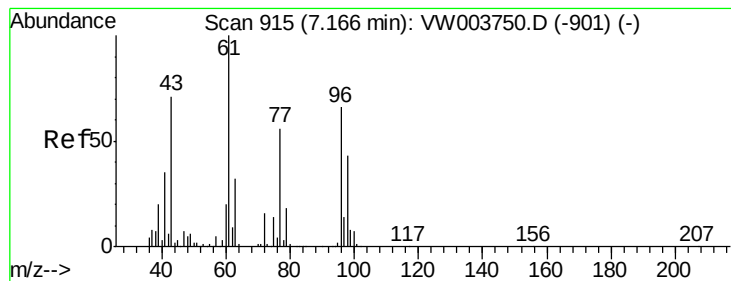
Tot Ion: 84 Resp: 18294  
Ion Ratio Lower Upper  
84 100  
49 126.2 105.1 157.7  
51 33.9 32.5 48.7  
86 61.6 49.8 74.6



#25  
2-Butanone  
Concen: 2.918 ug/l  
RT: 7.17 min Scan# 916  
Delta R.T. -0.01 min  
Lab File: VW003921.D  
Acq: 13 Jul 2018 18:02

Tgt Ion: 43 Resp: 2070  
Ion Ratio Lower Upper  
43 100  
72 10.7 19.4 29.2#





#26

2,2-Dichloropropane

Concen: 1.003 ug/l

RT: 7.15 min Scan# 913

Delta R.T. -0.01 min

Lab File: VW003921.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA\_W

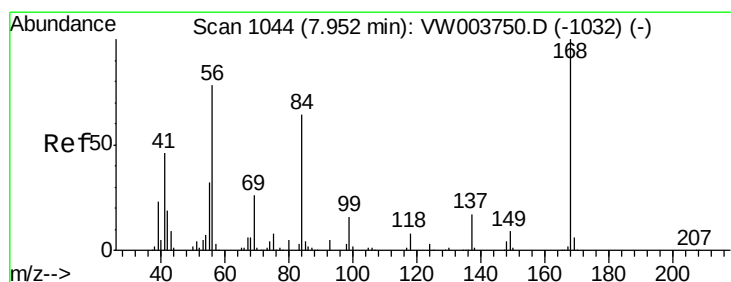
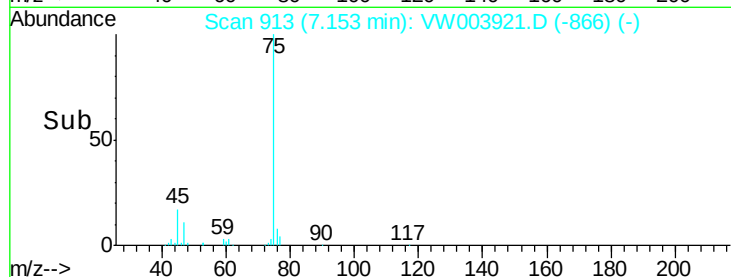
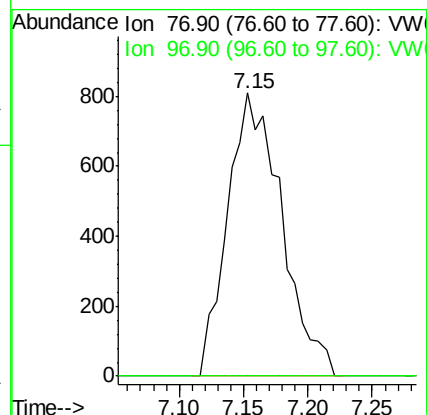
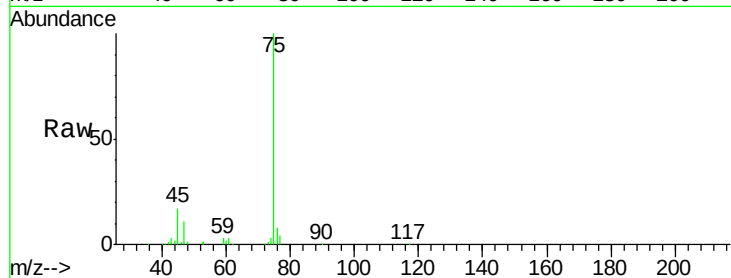
ClientSampleId :

Tot Ion: 77 Resp: 2359

Ion Ratio Lower Upper

77 100

97 0.0 11.5 34.5#



#31

Cyclohexane

Concen: 1.426 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VW003921.D

Acq: 13 Jul 2018 18:02

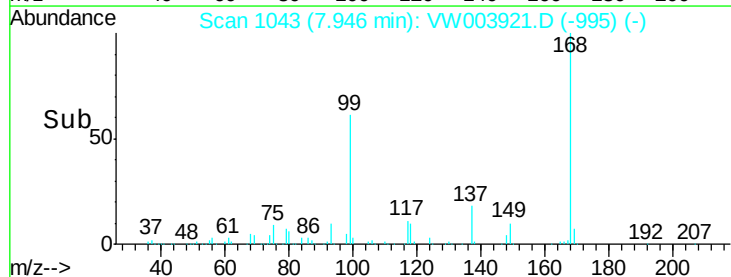
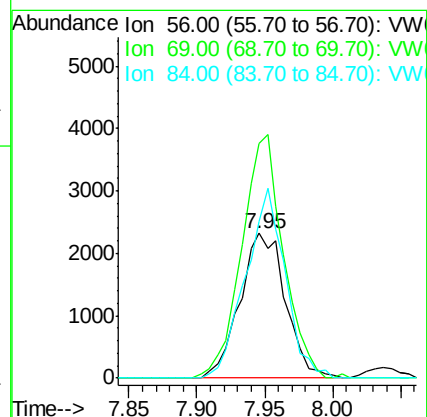
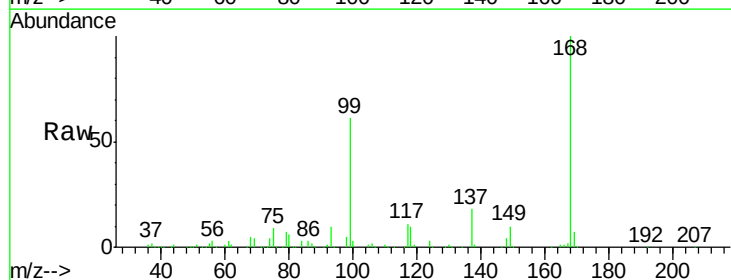
Tgt Ion: 56 Resp: 5434

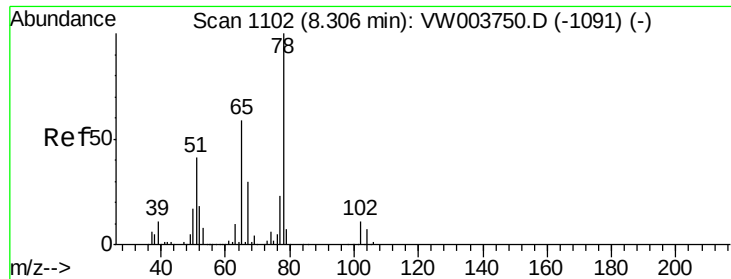
Ion Ratio Lower Upper

56 100

69 162.2 26.2 39.4#

84 108.1 65.5 98.3#

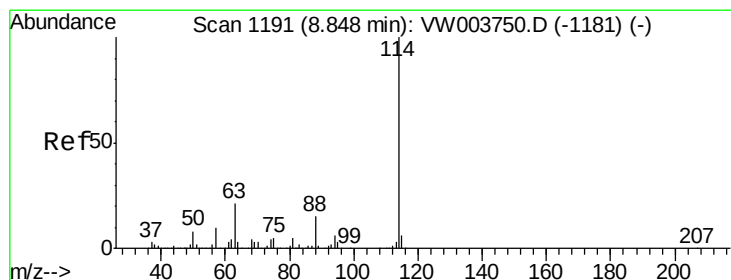
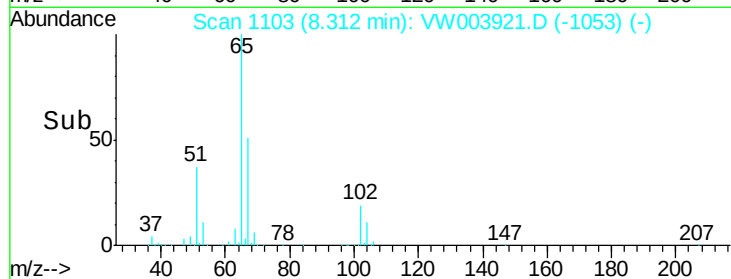
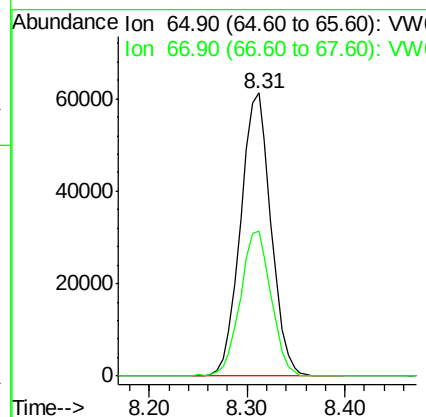
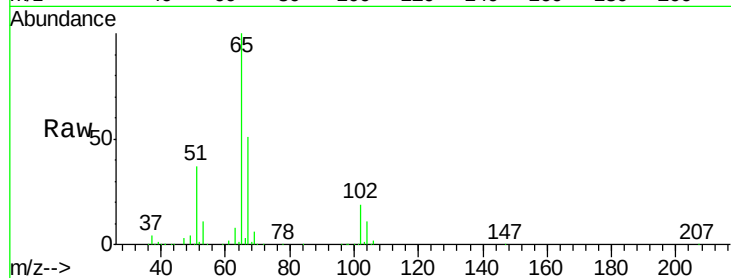




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.526 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. 0.01 min  
 Lab File: VW003921.D  
 Acq: 13 Jul 2018 18:02

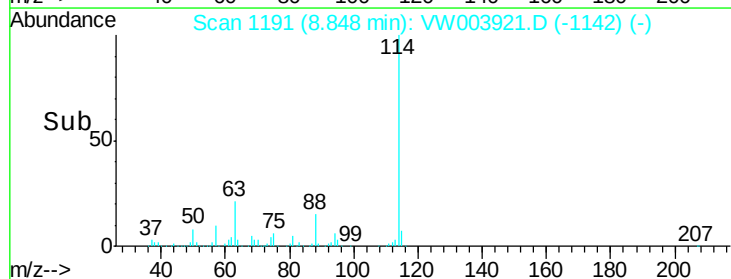
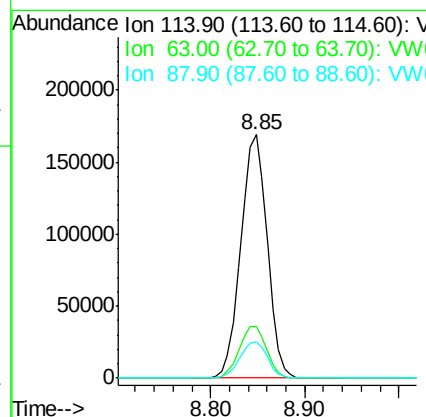
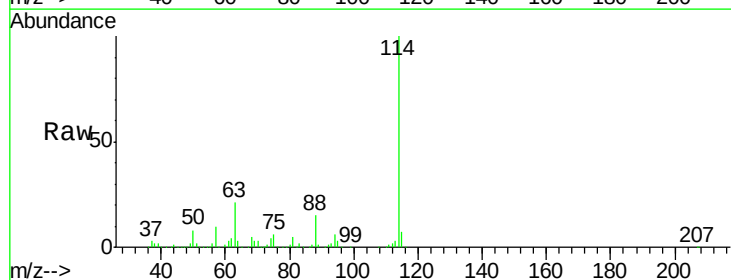
Instrument :  
 MSVOA\_W  
 ClientSampleId :

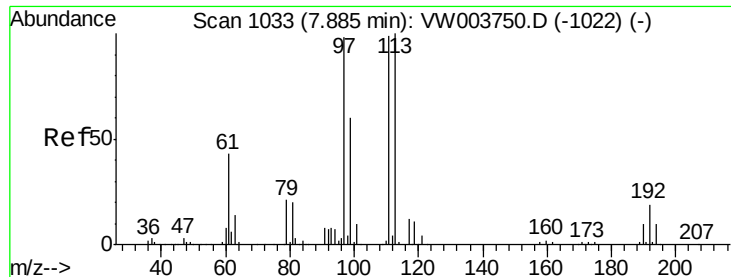
Tot Ion: 65 Resp: 131917  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 103.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW003921.D  
 Acq: 13 Jul 2018 18:02

Tgt Ion: 114 Resp: 330086  
 Ion Ratio Lower Upper  
 114 100  
 63 21.4 0.0 41.8  
 88 14.8 0.0 30.2

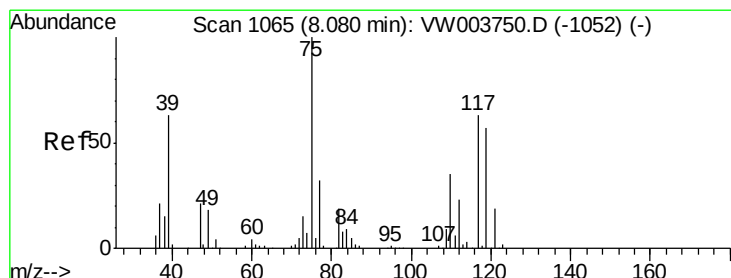
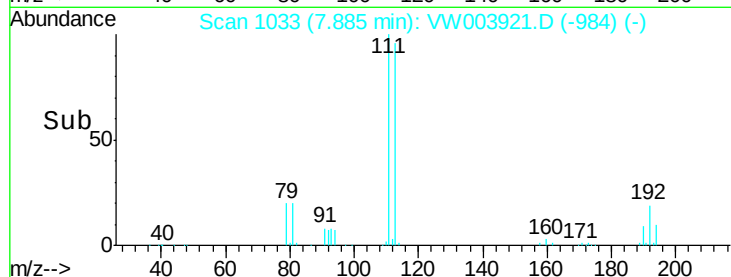
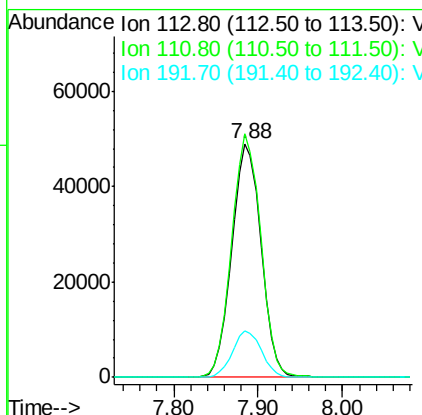
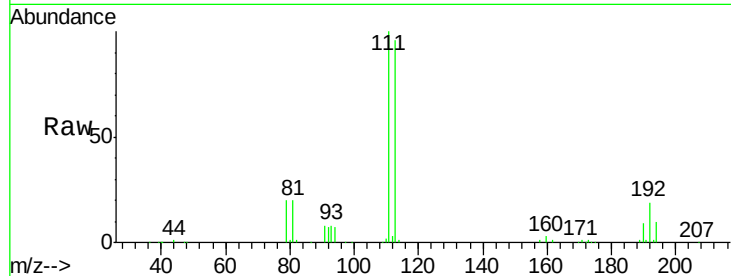




#35  
 Dibromofluoromethane  
 Concen: 49.682 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW003921.D  
 Acq: 13 Jul 2018 18:02

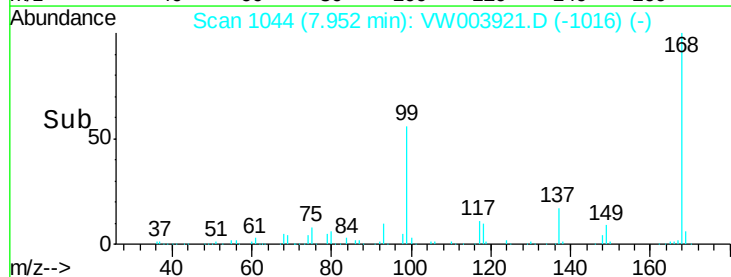
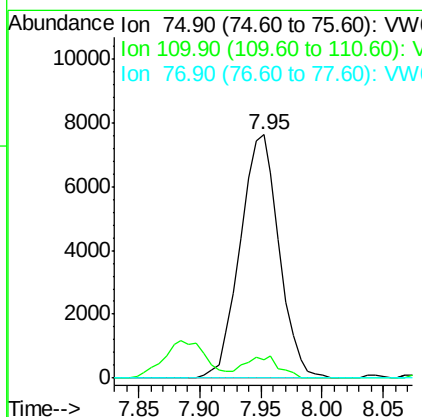
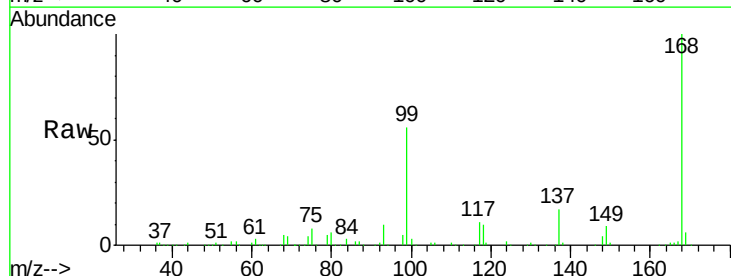
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:113 Resp: 114777  
 Ion Ratio Lower Upper  
 113 100  
 111 103.9 81.7 122.5  
 192 19.8 15.8 23.8

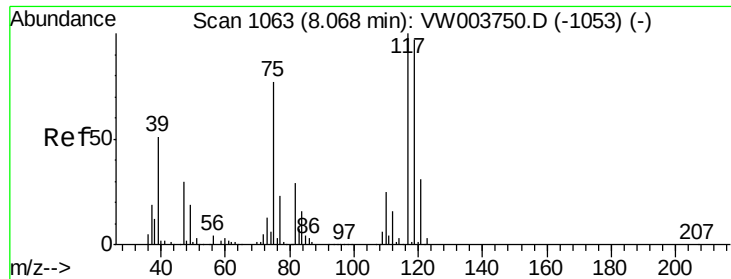


#36  
 1,1-Dichloropropene  
 Concen: 4.806 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW003921.D  
 Acq: 13 Jul 2018 18:02

Tgt Ion: 75 Resp: 16831  
 Ion Ratio Lower Upper  
 75 100  
 110 8.2 16.9 50.6#  
 77 0.0 24.8 37.2#







#38

Carbon Tetrachloride

Concen: 6.092 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW003921.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA\_W

ClientSampleId :

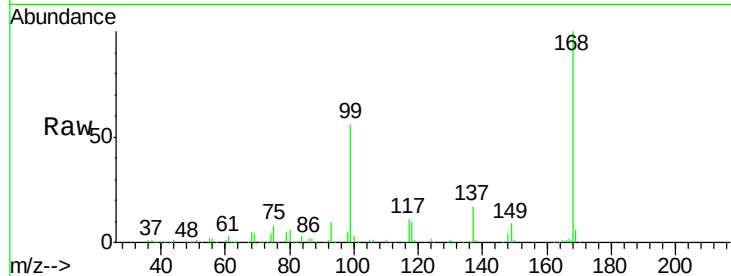
Tot Ion:117 Resp: 20285

Ion Ratio Lower Upper

117 100

119 5.2 77.4 116.2#

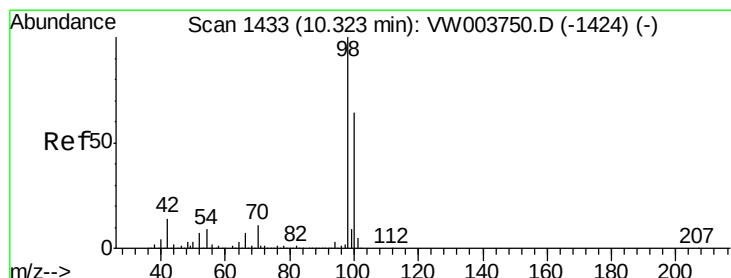
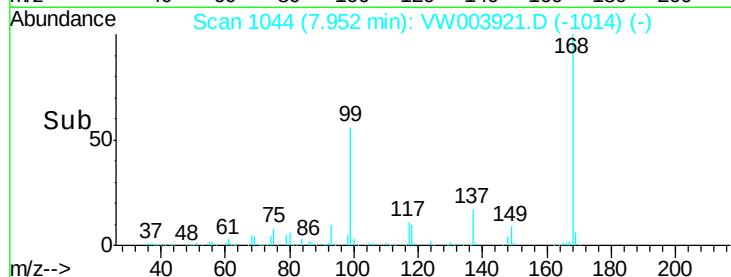
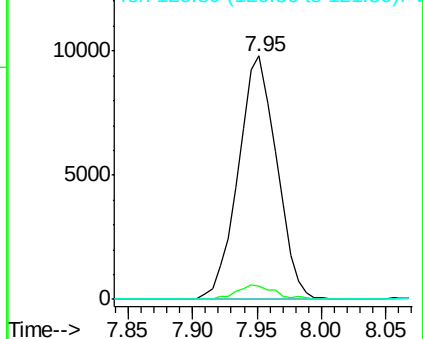
121 0.0 24.6 37.0#



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: 48.068 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VW003921.D

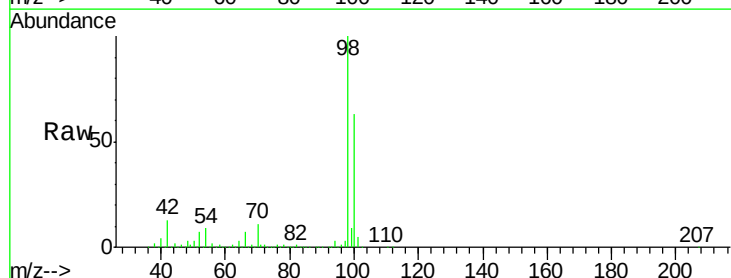
Acq: 13 Jul 2018 18:02

Tgt Ion: 98 Resp: 424781

Ion Ratio Lower Upper

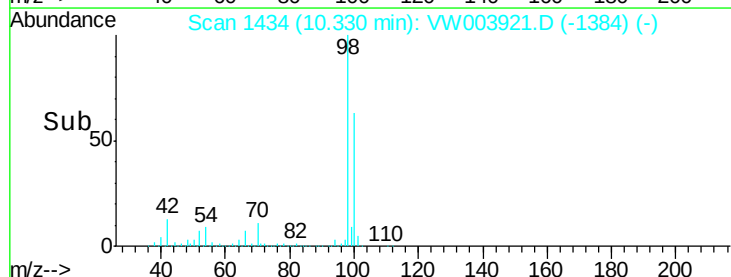
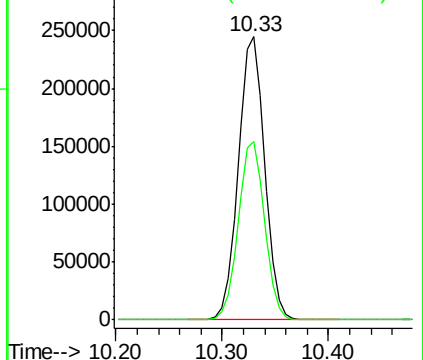
98 100

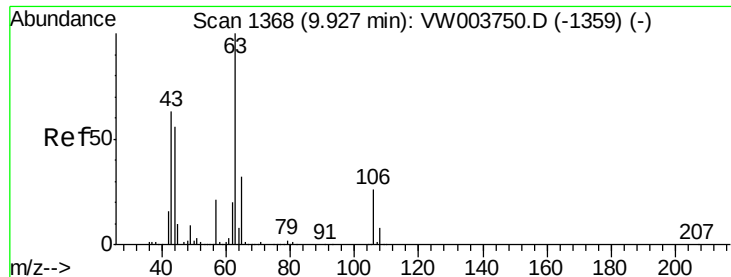
100 63.0 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

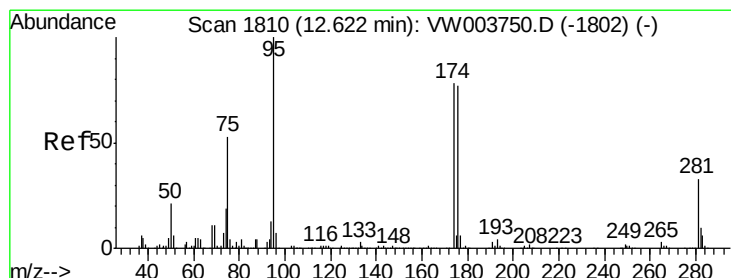
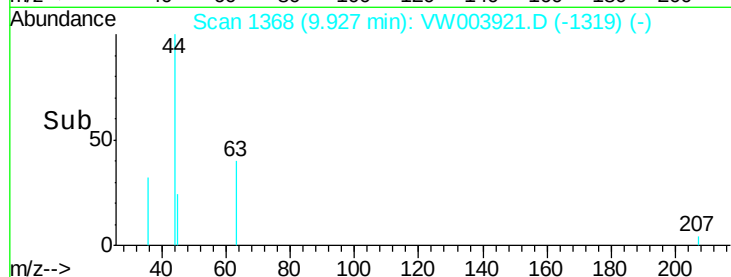
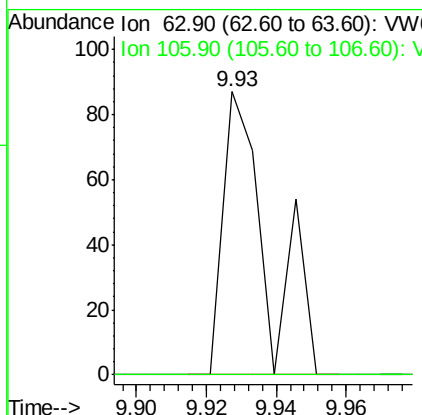
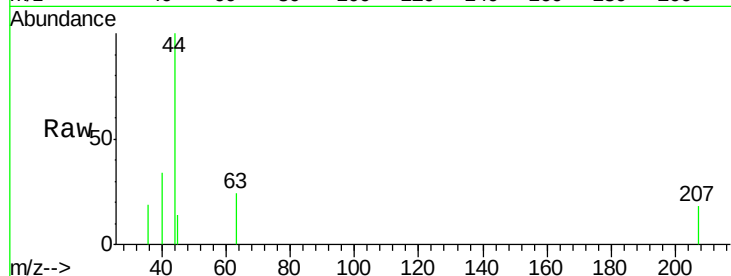




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 13.227 ug/l  
 RT: 9.93 min Scan# 1368  
 Delta R.T. 0.00 min  
 Lab File: VW003921.D  
 Acq: 13 Jul 2018 18:02

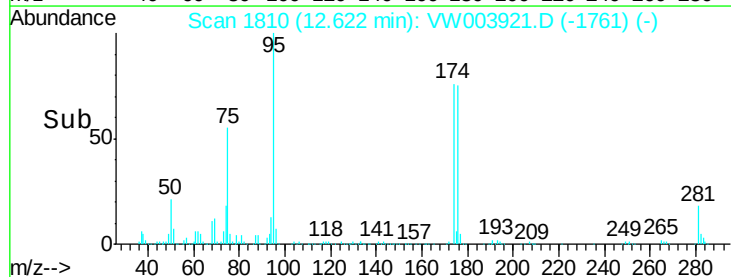
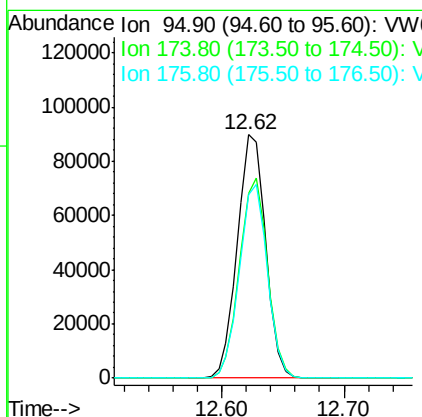
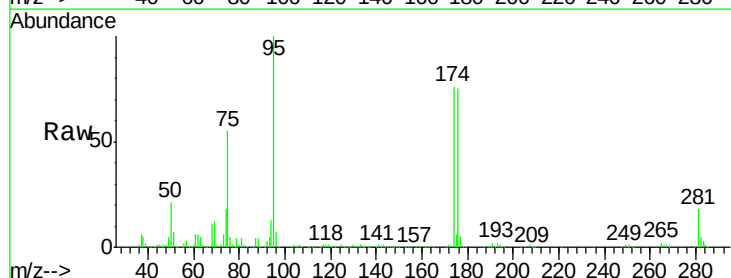
Instrument :  
 MSVOA\_W  
 ClientSampled :

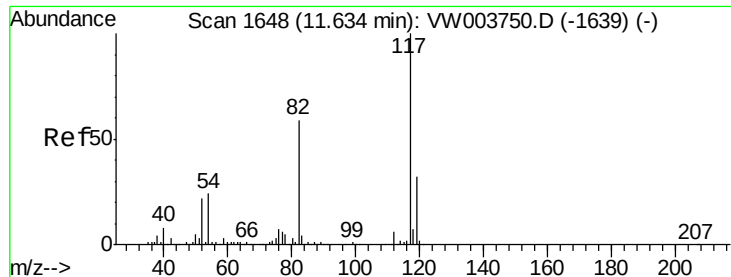
Tot Ion: 63 Resp: 77  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 20.9 31.3#



#62  
 4-Bromofluorobenzene  
 Concen: 45.053 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. -0.00 min  
 Lab File: VW003921.D  
 Acq: 13 Jul 2018 18:02

Tgt Ion: 95 Resp: 144054  
 Ion Ratio Lower Upper  
 95 100  
 174 81.8 0.0 163.4  
 176 78.7 0.0 156.8

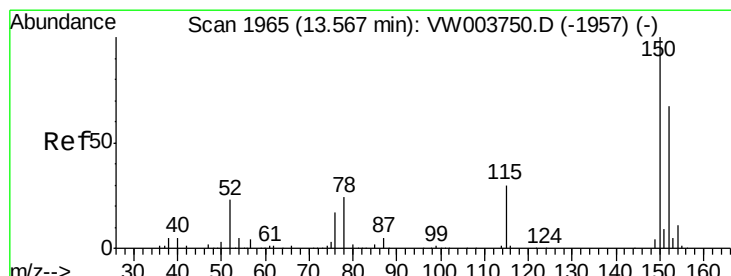
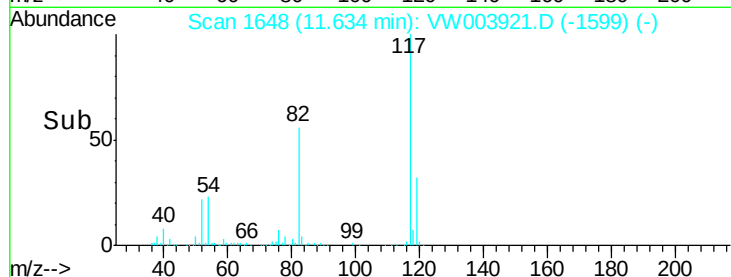
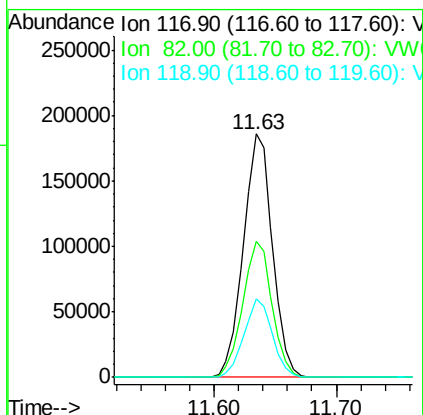
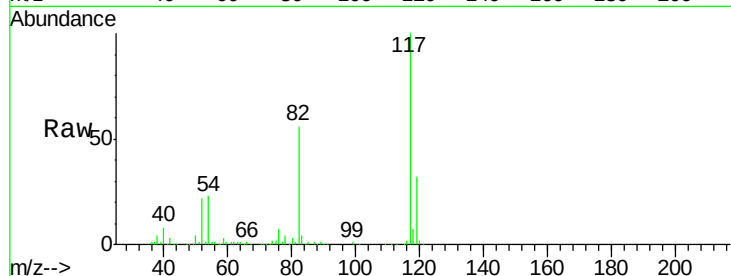




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW003921.D  
Acq: 13 Jul 2018 18:02

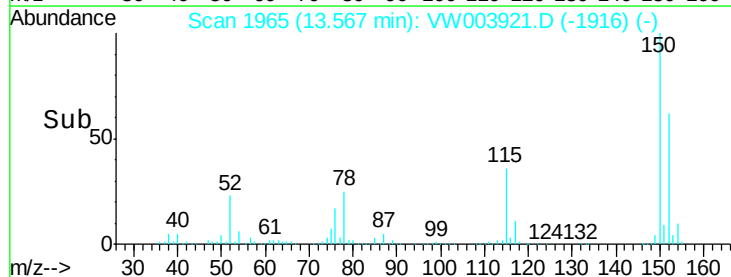
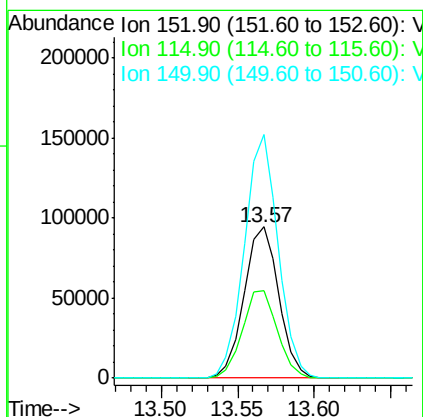
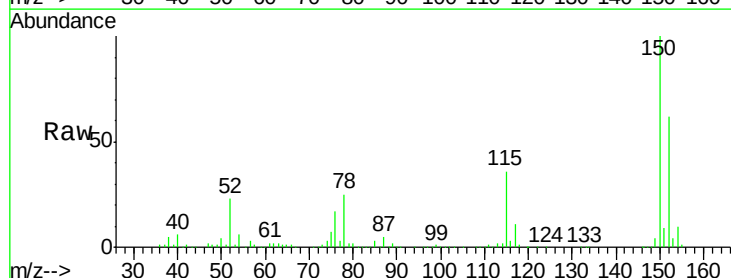
Instrument :  
MSVOA\_W  
ClientSampleId :

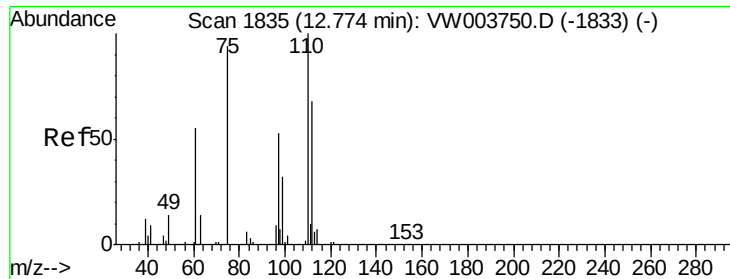
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.9  | 46.9  | 70.3  |
| 119     | 32.0  | 25.5  | 38.3  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW003921.D  
Acq: 13 Jul 2018 18:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.4  | 28.9  | 86.8  |
| 150     | 156.3 | 0.0   | 342.4 |





#76

1,2,3-Trichloropropane

Concen: 53.593 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003921.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA\_W

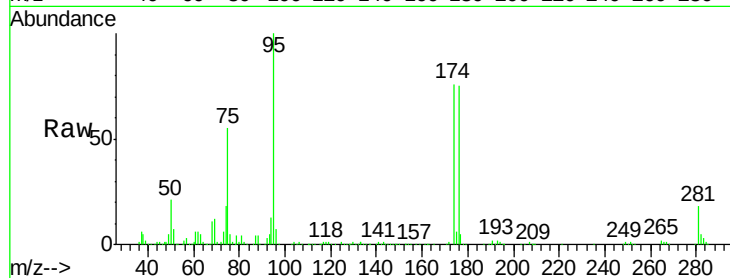
ClientSampleId :

Tot Ion: 75 Resp: 78485

Ion Ratio Lower Upper

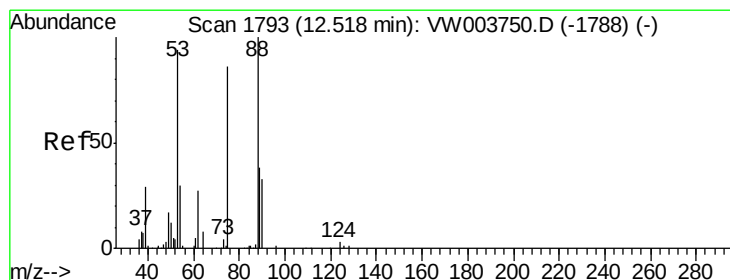
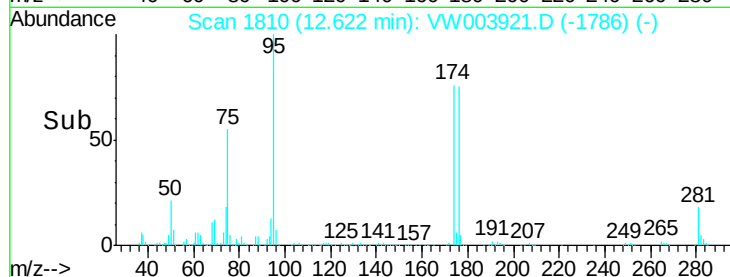
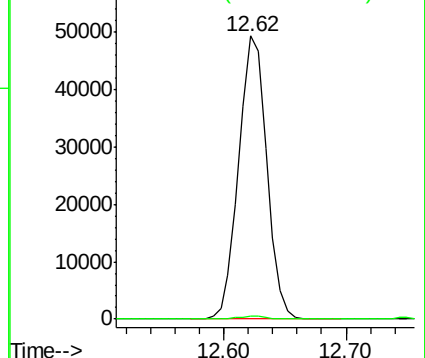
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 131.101 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW003921.D

Acq: 13 Jul 2018 18:02

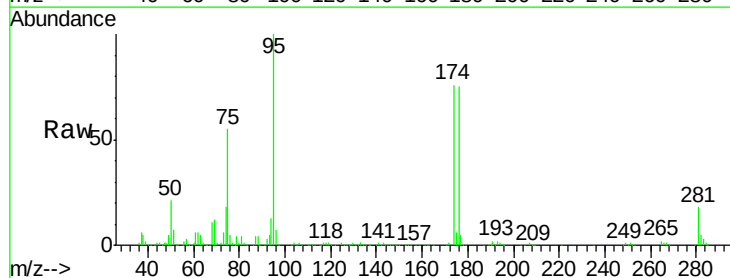
Tgt Ion: 75 Resp: 78485

Ion Ratio Lower Upper

75 100

53 0.1 85.0 127.6#

89 0.4 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

