

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071318\  
 Data File : VW003925.D  
 Acq On : 13 Jul 2018 19:46  
 Operator : VA/AP  
 Sample : J3825-09RE  
 Misc : 6.32G/5ML/MSVOA W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jul 13 23:54:11 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  | 106505   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 177831   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 149759   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 50850    | 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   | 135332   | 97.17 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 194.34% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 113077   | 90.85 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 181.70% |          |
| 50) Toluene-d8              | 10.33 | 98   | 375292   | 78.83 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 157.66% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 101565   | 58.96 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 117.92% |          |

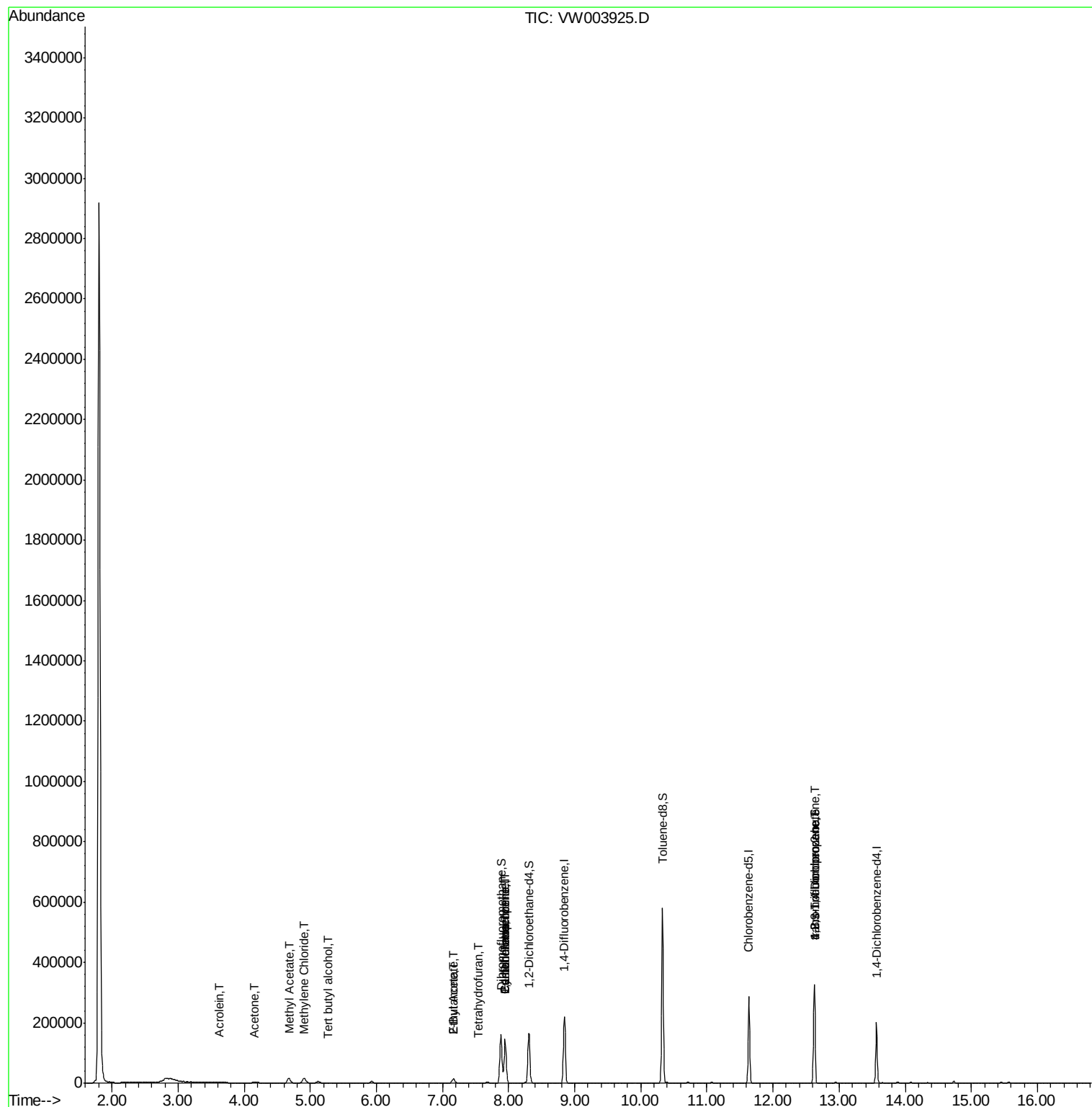
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.26  | 59   | 215      | 2.848   | ug/l # | 70     |
| 13) Acrolein                   | 3.63  | 56   | 20       | 4.899   | ug/l # | 60     |
| 16) Acetone                    | 4.15  | 43   | 4162     | 17.224  | ug/l # | 74     |
| 18) Methyl Acetate             | 4.68  | 43   | 32580    | 47.821  | ug/l   | 99     |
| 20) Methylene Chloride         | 4.90  | 84   | 12645    | 6.964   | ug/l # | 93     |
| 25) 2-Butanone                 | 7.17  | 43   | 1173     | 3.099   | ug/l # | 51     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 256      | 1.052   | ug/l # | 36     |
| 31) Cyclohexane                | 7.95  | 56   | 2933     | 1.443   | ug/l # | 28     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 9266     | 4.911   | ug/l # | 48     |
| 37) Ethyl Acetate              | 7.17  | 43   | 1173     | 1.278   | ug/l # | 1      |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 11100    | 6.187   | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 54710    | 109.565 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 54710    | 268.022 | ug/l # | 8      |

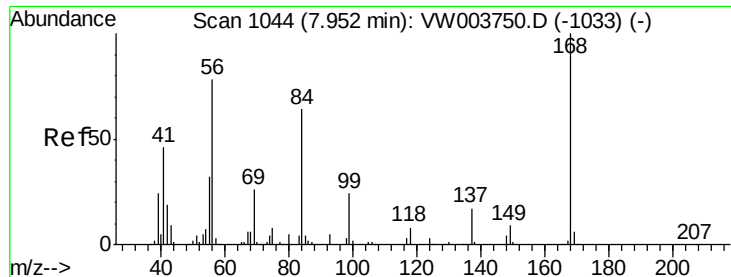
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 13 23:54:11 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: VW003925.D

Acq: 13 Jul 2018 19:46

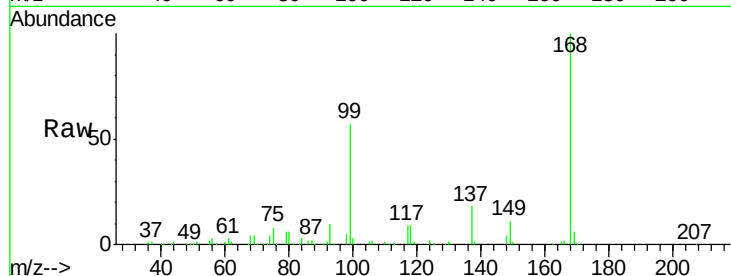
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 106505

Ion Ratio Lower Upper

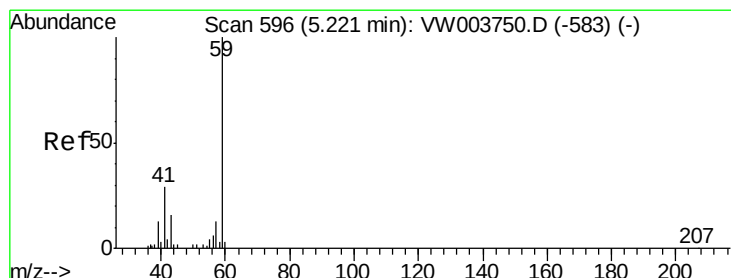
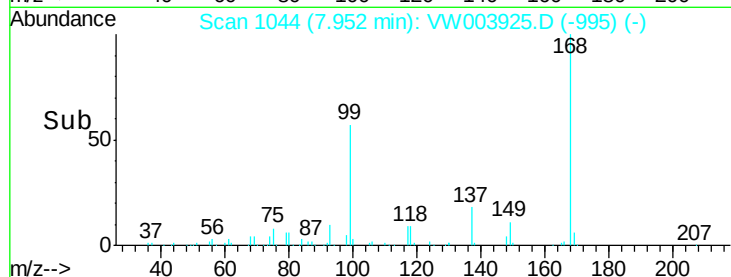
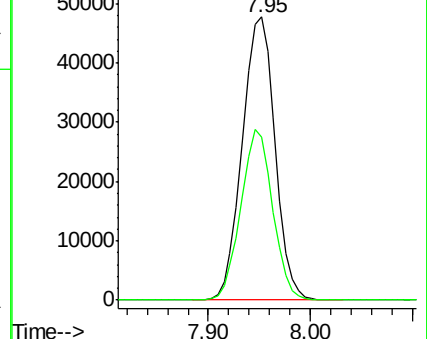
168 100

99 57.5 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 2.848 ug/l

RT: 5.26 min Scan# 602

Delta R.T. 0.04 min

Lab File: VW003925.D

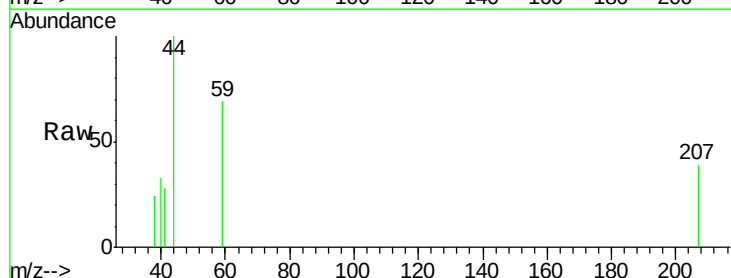
Acq: 13 Jul 2018 19:46

Tgt Ion: 59 Resp: 215

Ion Ratio Lower Upper

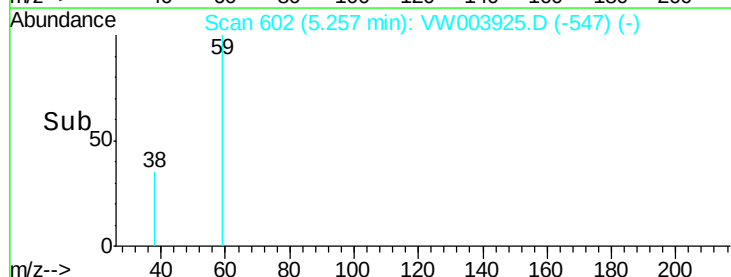
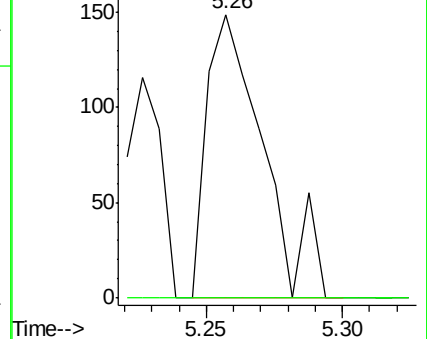
59 100

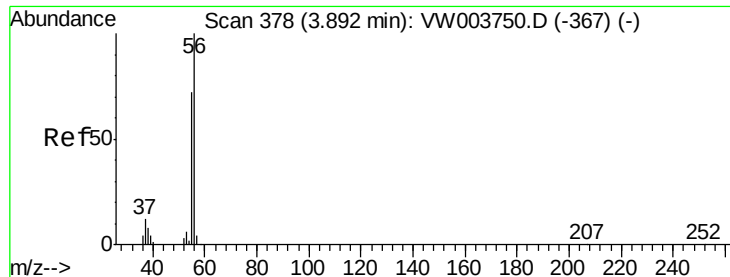
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 4.899 ug/l

RT: 3.63 min Scan# 335

Delta R.T. -0.26 min

Lab File: VW003925.D

Acq: 13 Jul 2018 19:46

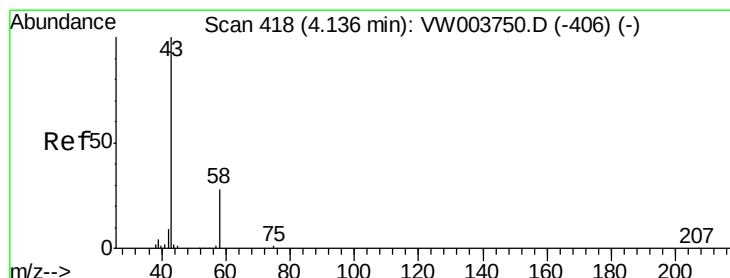
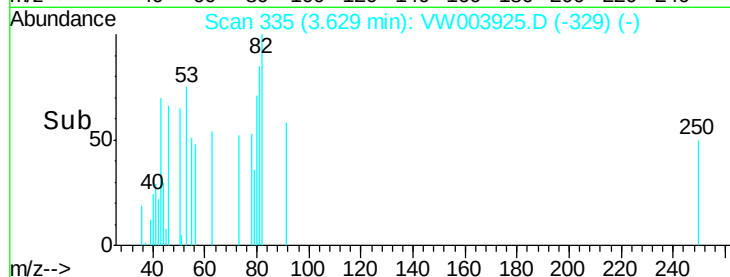
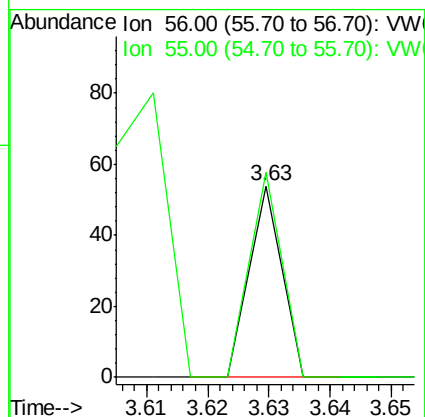
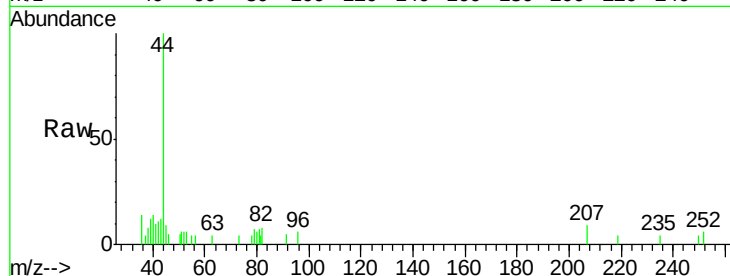
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 56 Resp: 20

Ion Ratio Lower Upper

56 100

55 105.0 57.5 86.3#



#16

Acetone

Concen: 17.224 ug/l

RT: 4.15 min Scan# 420

Delta R.T. 0.01 min

Lab File: VW003925.D

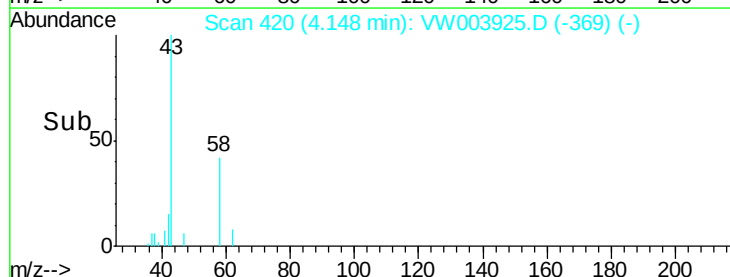
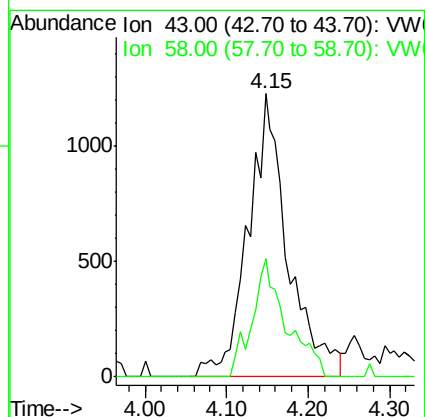
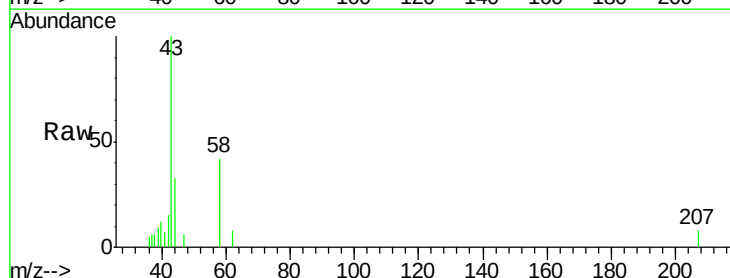
Acq: 13 Jul 2018 19:46

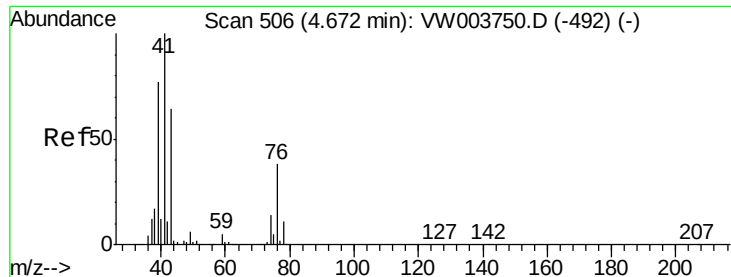
Tgt Ion: 43 Resp: 4162

Ion Ratio Lower Upper

43 100

58 41.9 22.6 34.0#

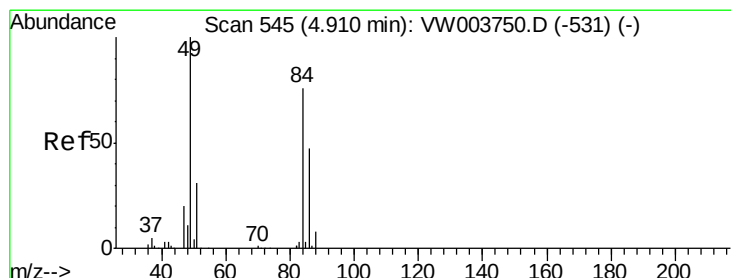
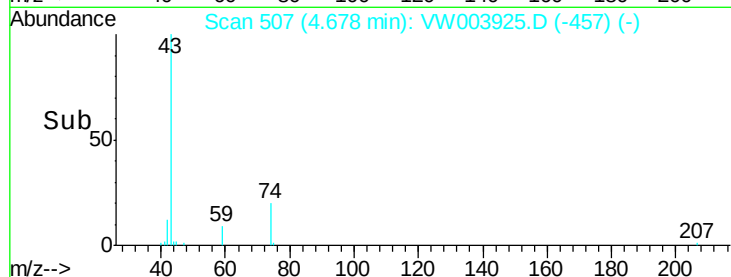
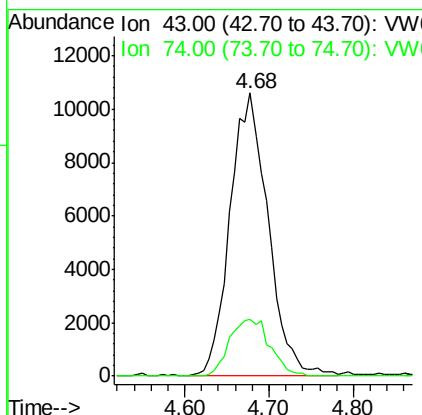
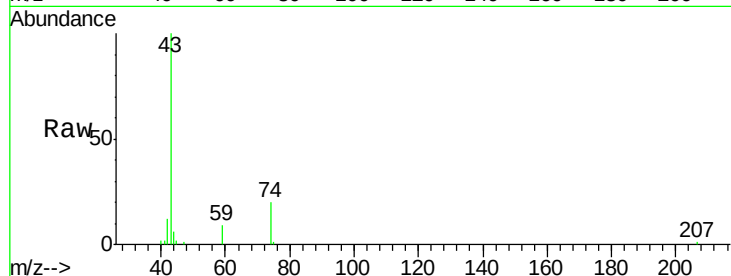




#18  
Methvl Acetate  
Concen: 47.821 ug/l  
RT: 4.68 min Scan# 507  
Delta R.T. 0.01 min  
Lab File: VW003925.D  
Acq: 13 Jul 2018 19:46

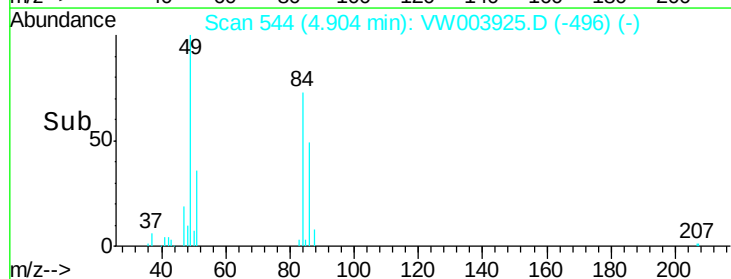
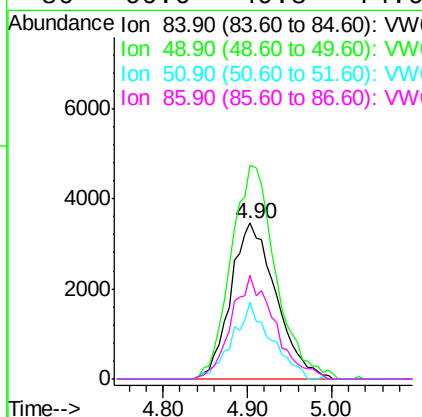
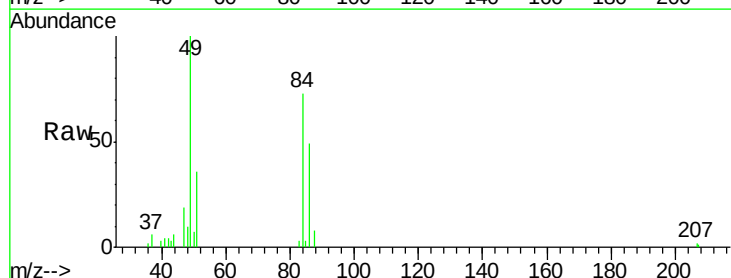
Instrument :  
MSVOA\_W  
ClientSampled :

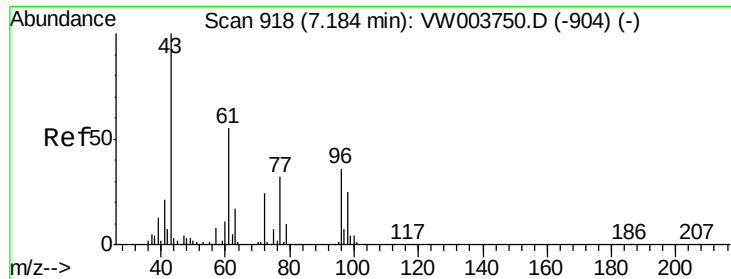
Tot Ion: 43 Resp: 32580  
Ion Ratio Lower Upper  
43 100  
74 21.2 17.3 25.9



#20  
Methylene Chloride  
Concen: 6.964 ug/l  
RT: 4.90 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: VW003925.D  
Acq: 13 Jul 2018 19:46

Tgt Ion: 84 Resp: 12645  
Ion Ratio Lower Upper  
84 100  
49 137.2 105.1 157.7  
51 49.1 32.5 48.7#  
86 66.6 49.8 74.6

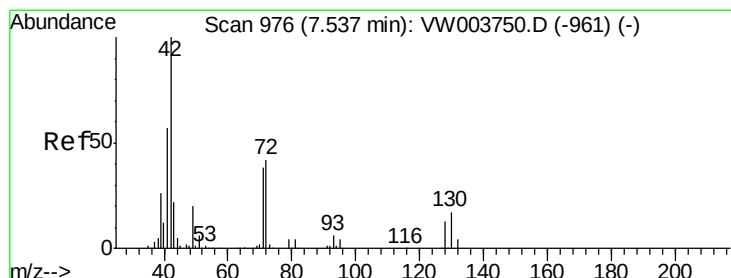
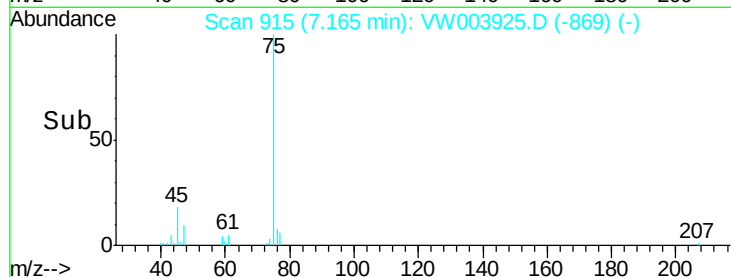
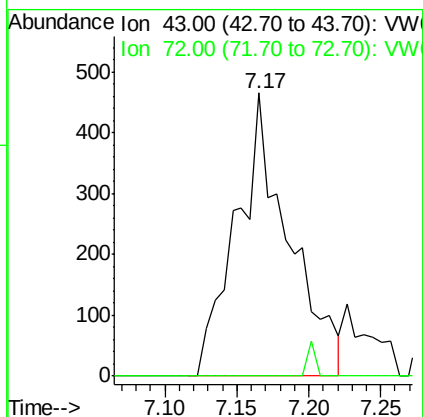
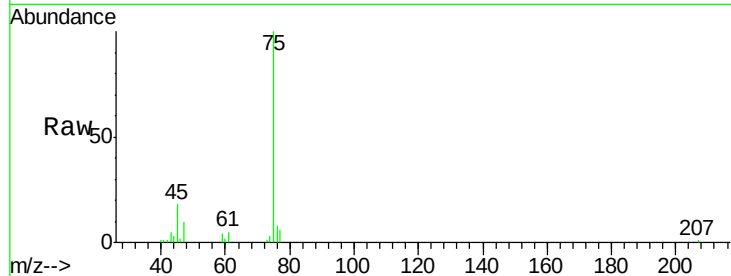




#25  
2-Butanone  
Concen: 3.099 ug/l  
RT: 7.17 min Scan# 915  
Delta R.T. -0.02 min  
Lab File: VW003925.D  
Acq: 13 Jul 2018 19:46

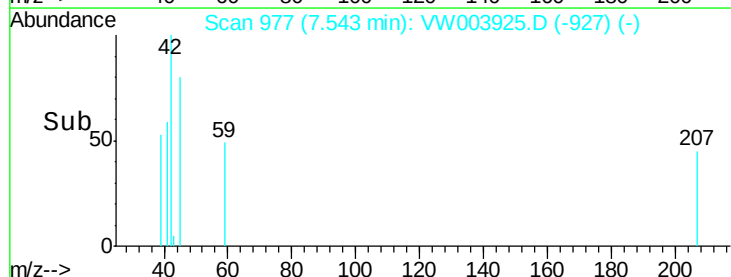
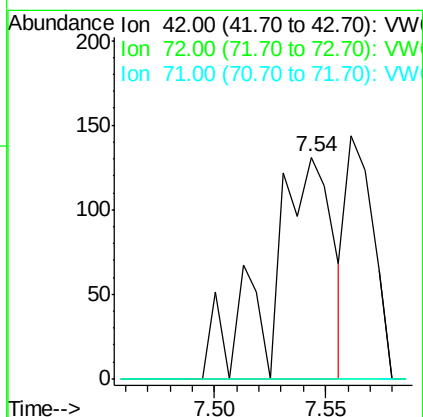
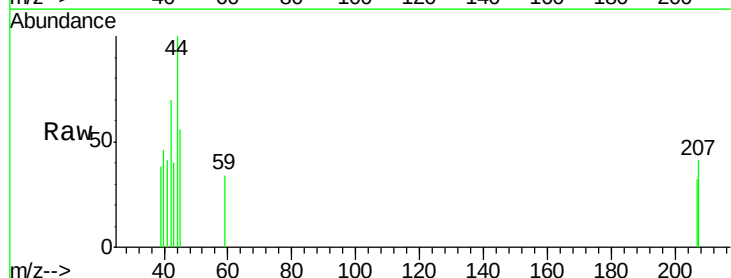
Instrument :  
MSVOA\_W  
ClientSampled :

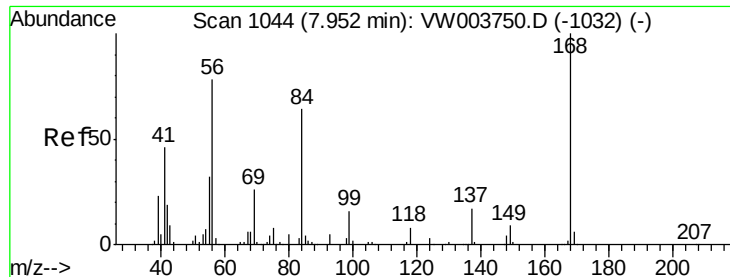
Tot Ion: 43 Resp: 1173  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#



#29  
Tetrahydrofuran  
Concen: 1.052 ug/l  
RT: 7.54 min Scan# 977  
Delta R.T. 0.01 min  
Lab File: VW003925.D  
Acq: 13 Jul 2018 19:46

Tgt Ion: 42 Resp: 256  
Ion Ratio Lower Upper  
42 100  
72 0.0 31.8 47.8#  
71 0.0 30.3 45.5#

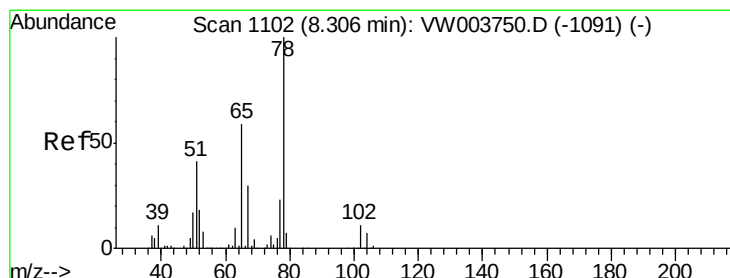
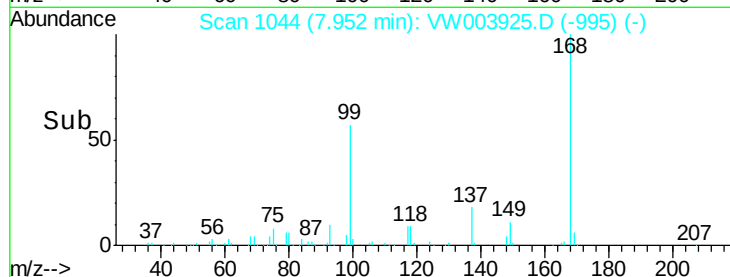
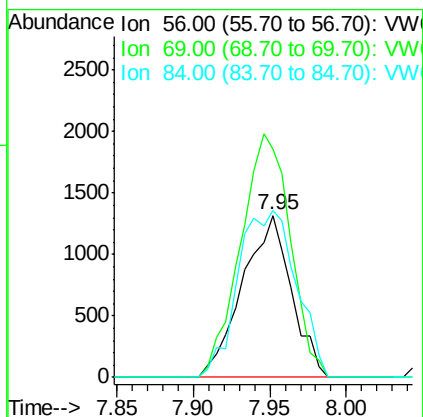
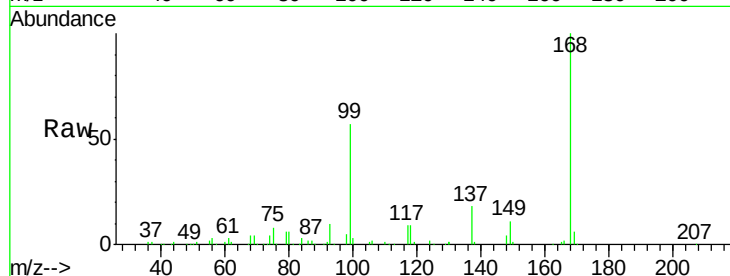




#31  
Cyclohexane  
Concen: 1.443 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. -0.00 min  
Lab File: VW003925.D  
Acq: 13 Jul 2018 19:46

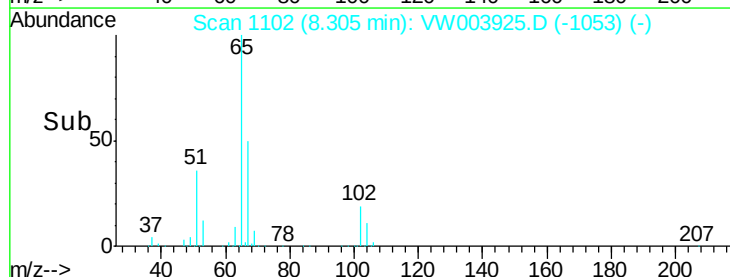
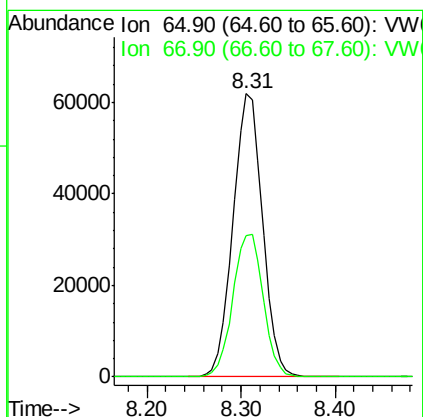
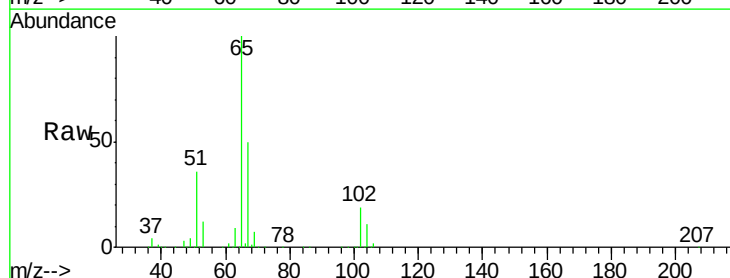
Instrument :  
MSVOA\_W  
ClientSampleId :

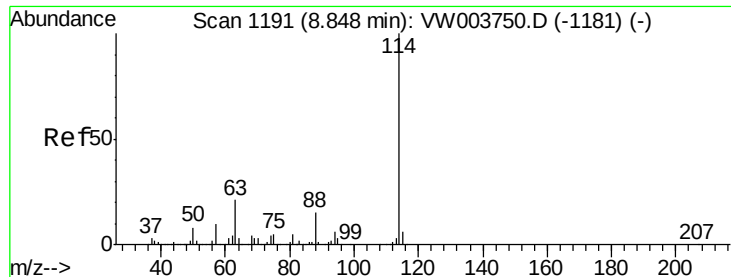
Tot Ion: 56 Resp: 2933  
Ion Ratio Lower Upper  
56 100  
69 141.4 26.2 39.4#  
84 103.4 65.5 98.3#



#33  
1,2-Dichloroethane-d4  
Concen: 97.166 ug/l  
RT: 8.31 min Scan# 1102  
Delta R.T. -0.00 min  
Lab File: VW003925.D  
Acq: 13 Jul 2018 19:46

Tgt Ion: 65 Resp: 135332  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 103.8

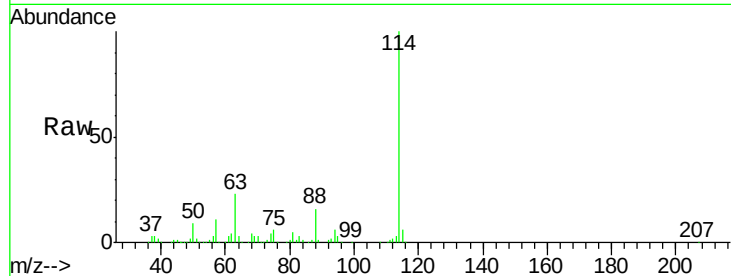




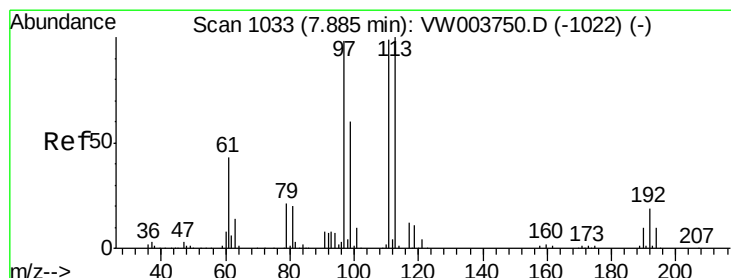
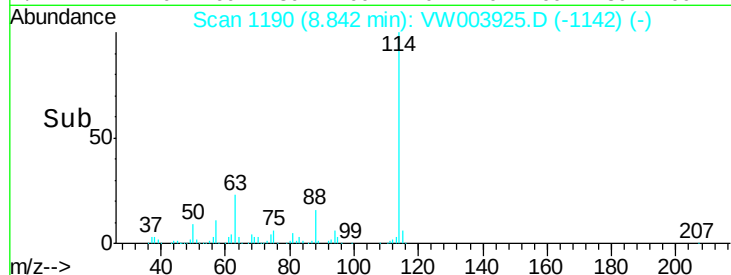
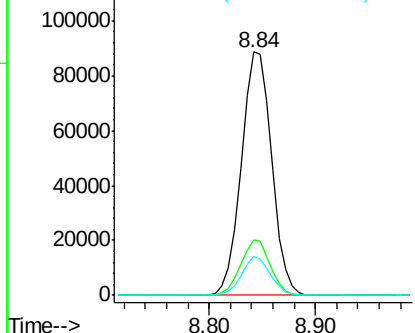
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: VW003925.D  
 Acq: 13 Jul 2018 19:46

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:114 Resp: 177831  
 Ion Ratio Lower Upper  
 114 100  
 63 23.0 0.0 41.8  
 88 16.2 0.0 30.2

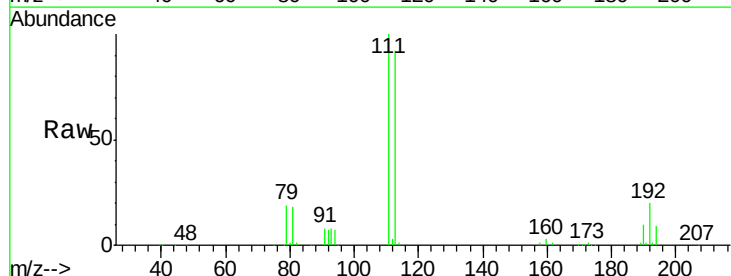


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

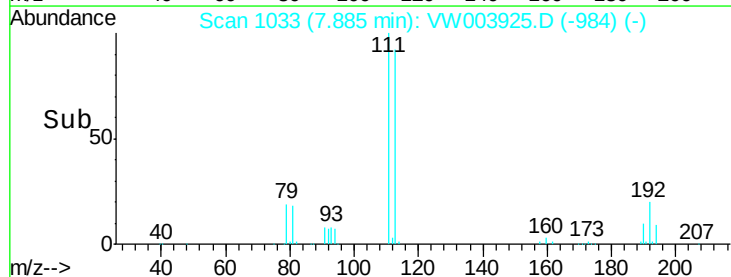
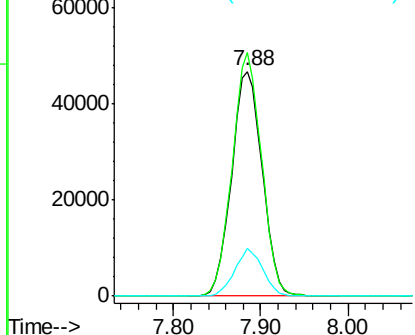


#35  
 Dibromofluoromethane  
 Concen: 90.853 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW003925.D  
 Acq: 13 Jul 2018 19:46

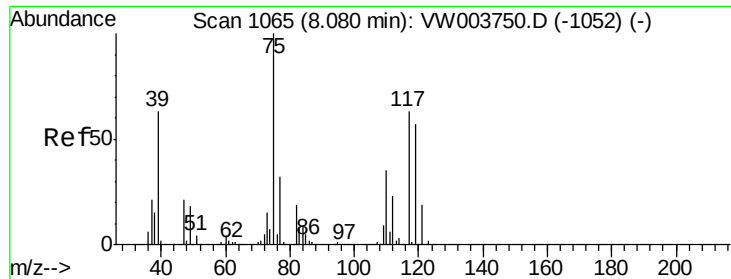
Tgt Ion:113 Resp: 113077  
 Ion Ratio Lower Upper  
 113 100  
 111 104.0 81.7 122.5  
 192 19.5 15.8 23.8



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: 4.911 ug/l

RT: 7.95 min Scan# 1043

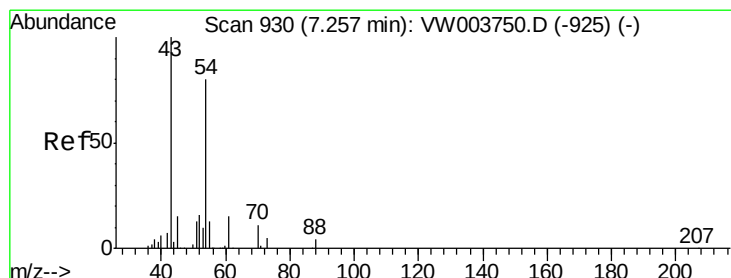
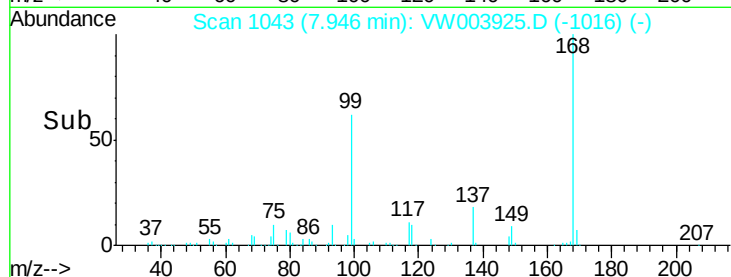
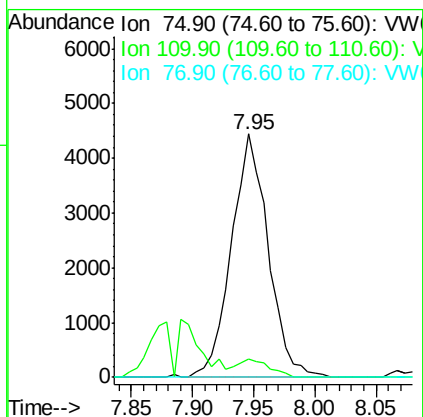
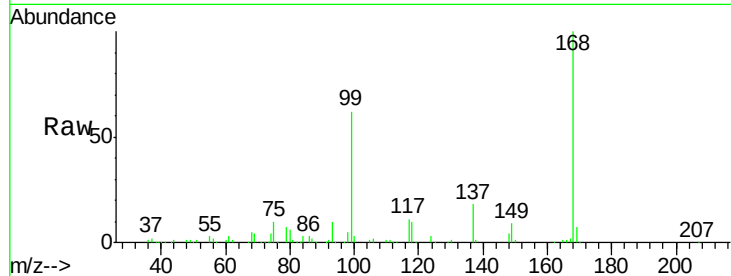
Delta R.T. -0.13 min

Lab File: VW003925.D

Acq: 13 Jul 2018 19:46

Instrument :  
MSVOA\_W  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 9266  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 5.9   | 16.9  | 50.6# |
| 77       | 0.0   | 24.8  | 37.2# |



#37

Ethyl Acetate

Concen: 1.278 ug/l

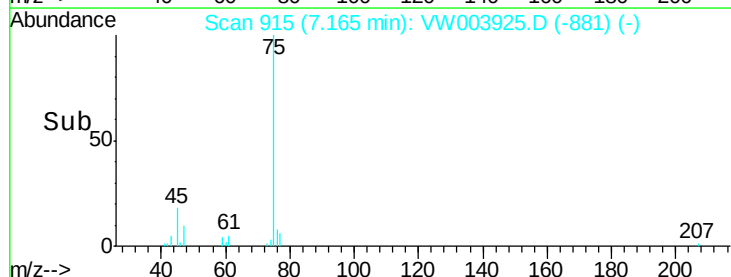
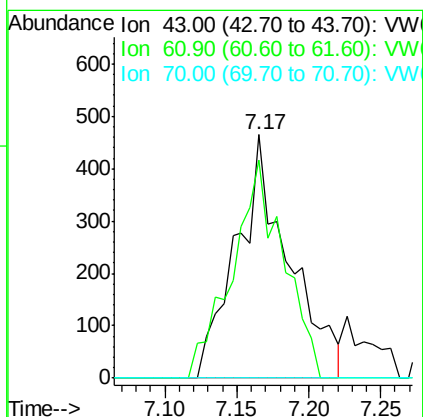
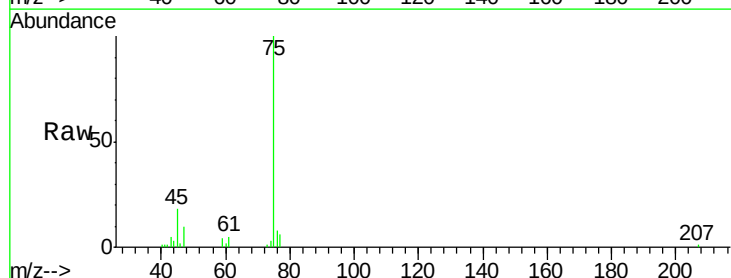
RT: 7.17 min Scan# 915

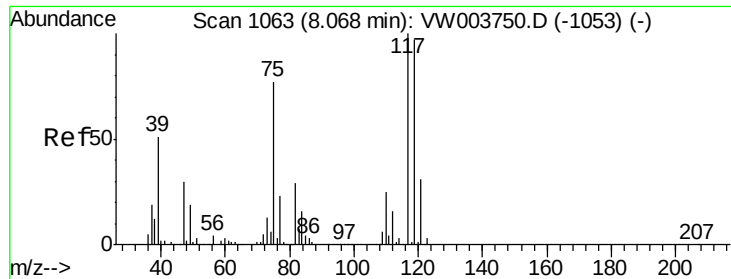
Delta R.T. -0.09 min

Lab File: VW003925.D

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|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1173  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 87.8  | 10.6  | 15.8# |
| 70       | 0.0   | 7.5   | 11.3# |

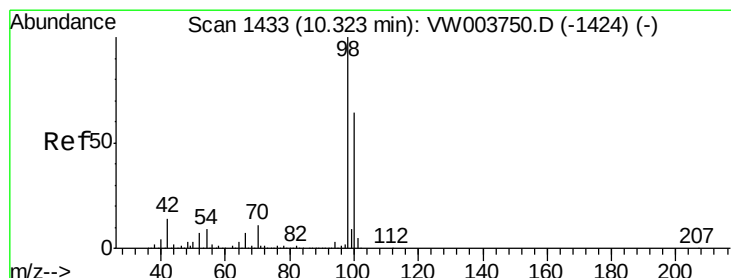
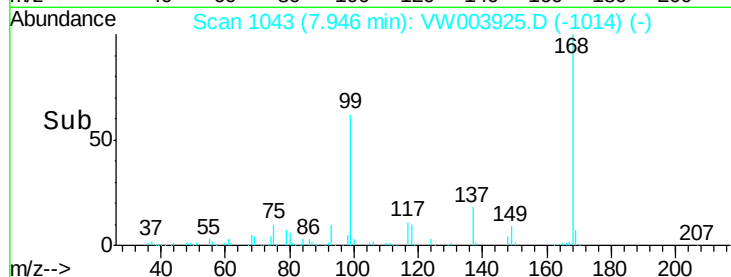
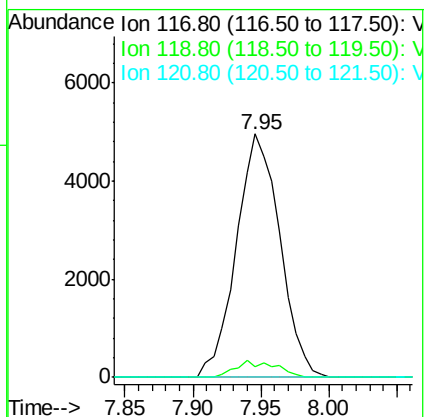
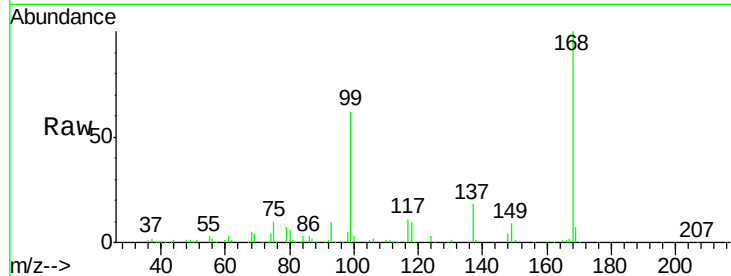




#38  
Carbon Tetrachloride  
Concen: 6.187 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.12 min  
Lab File: VW003925.D  
Acq: 13 Jul 2018 19:46

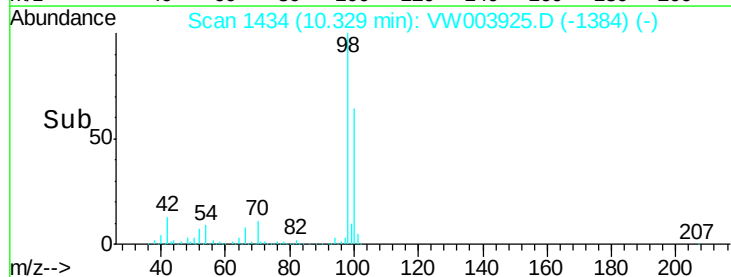
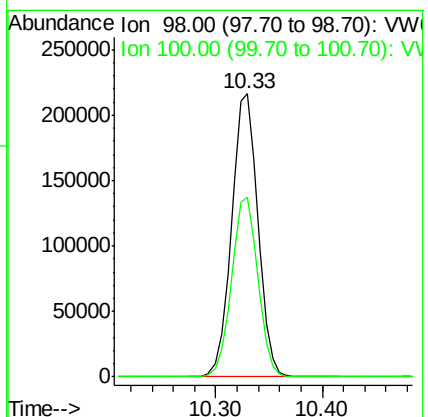
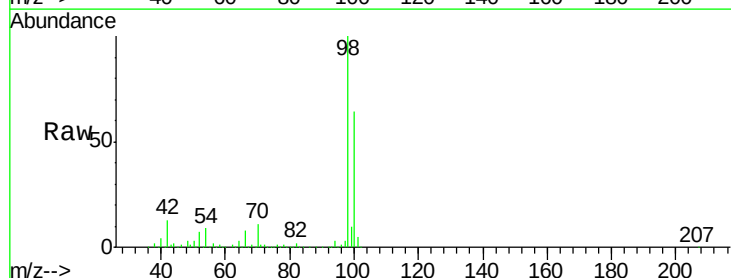
Instrument :  
MSVOA\_W  
ClientSampleId :

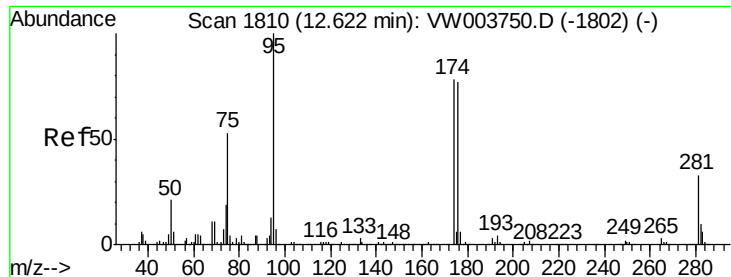
Tot Ion:117 Resp: 11100  
Ion Ratio Lower Upper  
117 100  
119 4.3 77.4 116.2#  
121 0.0 24.6 37.0#



#50  
Toluene-d8  
Concen: 78.828 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. 0.01 min  
Lab File: VW003925.D  
Acq: 13 Jul 2018 19:46

Tgt Ion: 98 Resp: 375292  
Ion Ratio Lower Upper  
98 100  
100 63.4 50.8 76.2

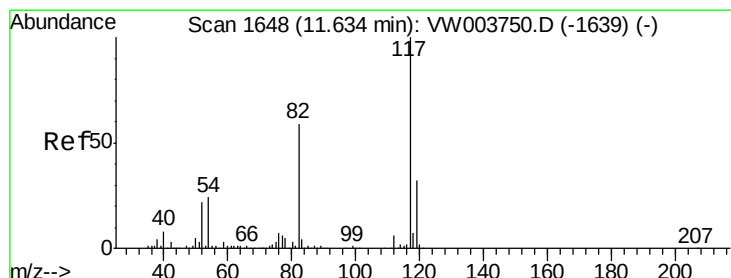
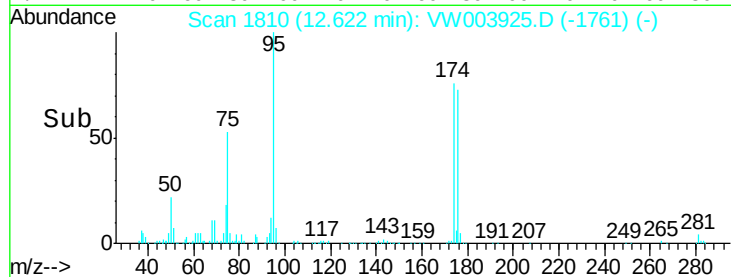
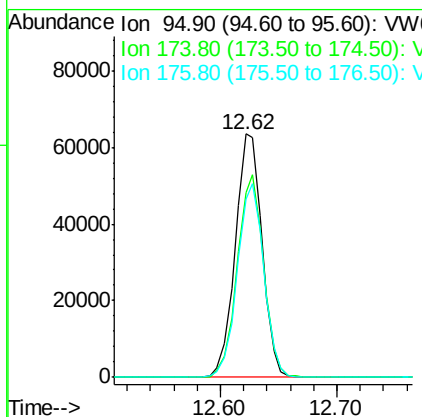
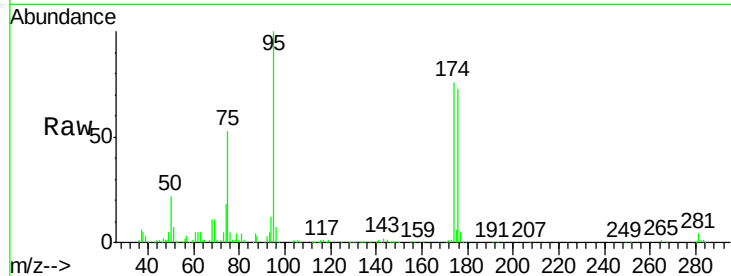




#62  
4-Bromofluorobenzene  
Concen: 58.961 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.00 min  
Lab File: VW003925.D  
Acq: 13 Jul 2018 19:46

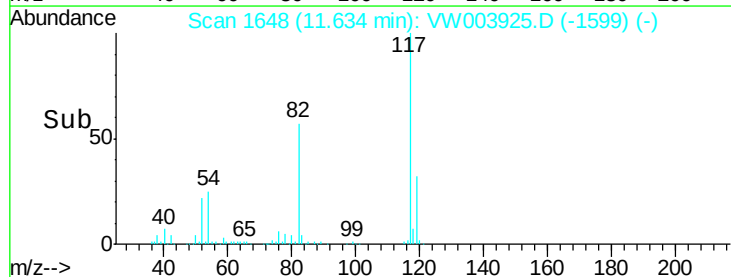
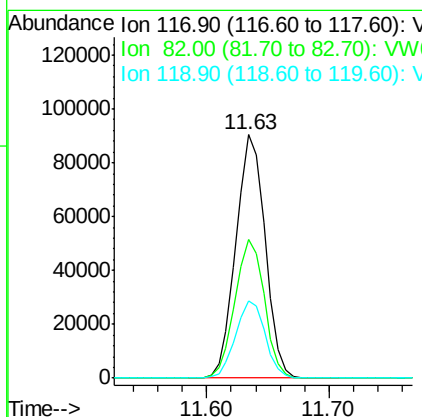
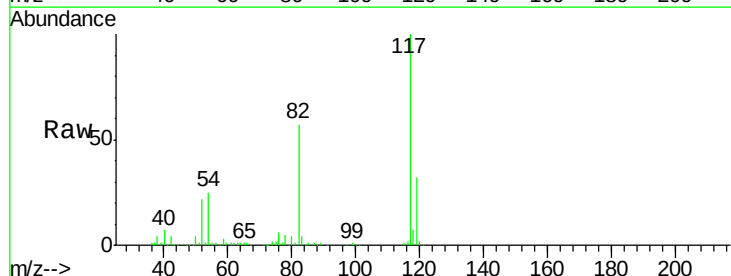
Instrument :  
MSVOA\_W  
ClientSampleId :

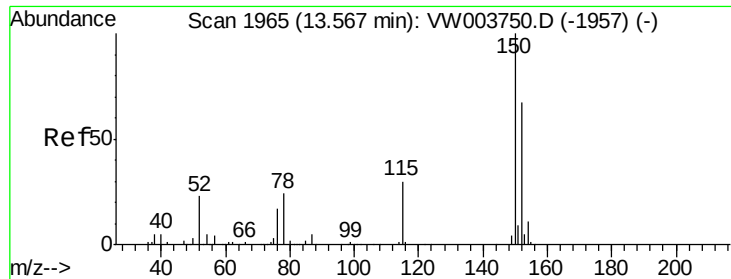
| Tot Ion   | 95    | Resp  | 101565 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 82.1  | 0.0   | 163.4  |
| 176       | 78.9  | 0.0   | 156.8  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW003925.D  
Acq: 13 Jul 2018 19:46

| Tgt Ion   | 117   | Resp  | 149759 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 56.9  | 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: VW003925.D

Acq: 13 Jul 2018 19:46

Instrument :

MSVOA\_W

ClientSampleId :

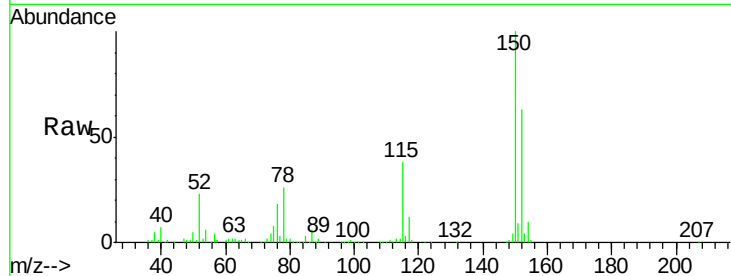
Tot Ion:152 Resp: 50850

Ion Ratio Lower Upper

152 100

115 59.8 28.9 86.8

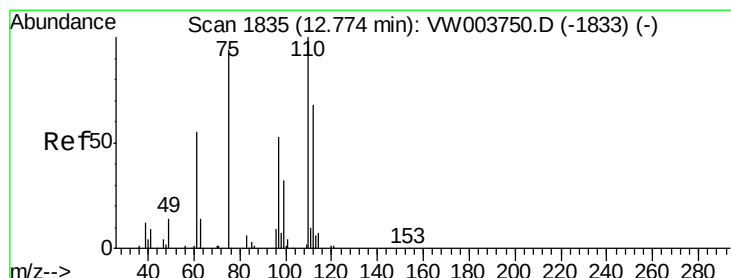
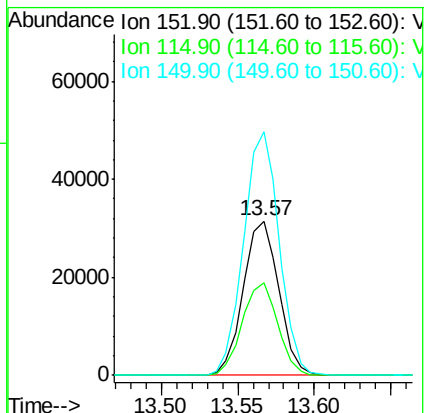
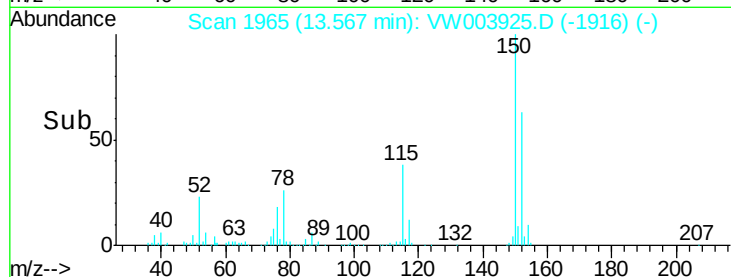
150 157.8 0.0 342.4



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



#76

1,2,3-Trichloropropane

Concen: 109.565 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003925.D

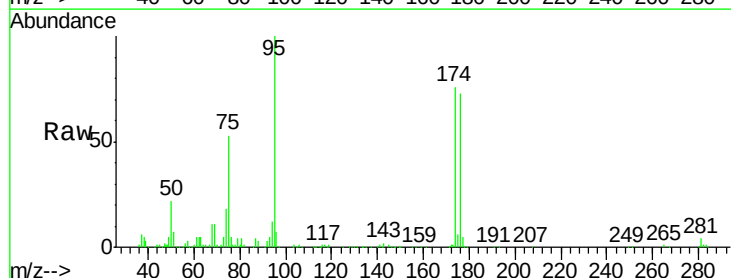
Acq: 13 Jul 2018 19:46

Tgt Ion: 75 Resp: 54710

Ion Ratio Lower Upper

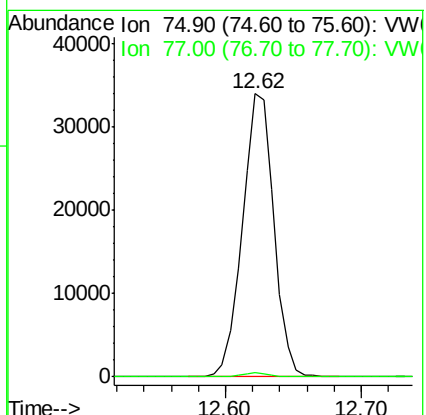
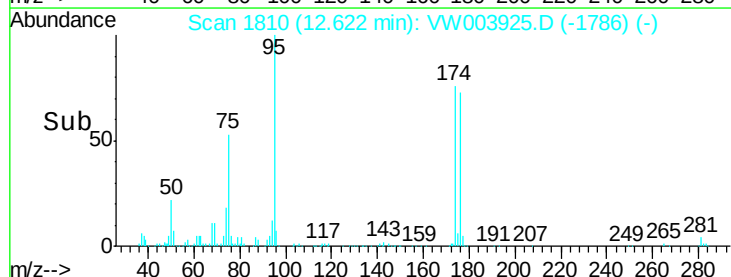
75 100

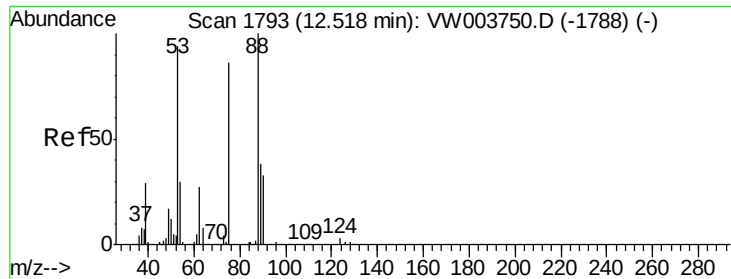
77 1.2 0.0 0.0#



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: 268.022 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW003925.D

Acq: 13 Jul 2018 19:46

Instrument :

MSVOA\_W

ClientSampleId :

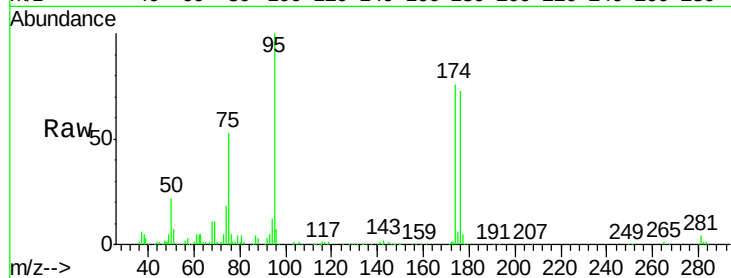
Tot Ion: 75 Resp: 54710

Ion Ratio Lower Upper

75 100

53 0.3 85.0 127.6#

89 0.0 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

