

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071718\  
 Data File : VW003996.D  
 Acq On : 17 Jul 2018 20:05  
 Operator : VA/AP  
 Sample : J3997-11  
 Misc : 5.04G/5ML/MSVOA W/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-H-S

Quant Time: Jul 18 04:51:28 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W071618S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 16 15:06:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 131177   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 220192   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 202940   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 90810    | 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   | 86033    | 58.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.34% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 71950    | 50.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.86% |          |
| 50) Toluene-d8              | 10.33 | 98   | 235192   | 42.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.80%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 73384    | 37.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 74.24%  |          |

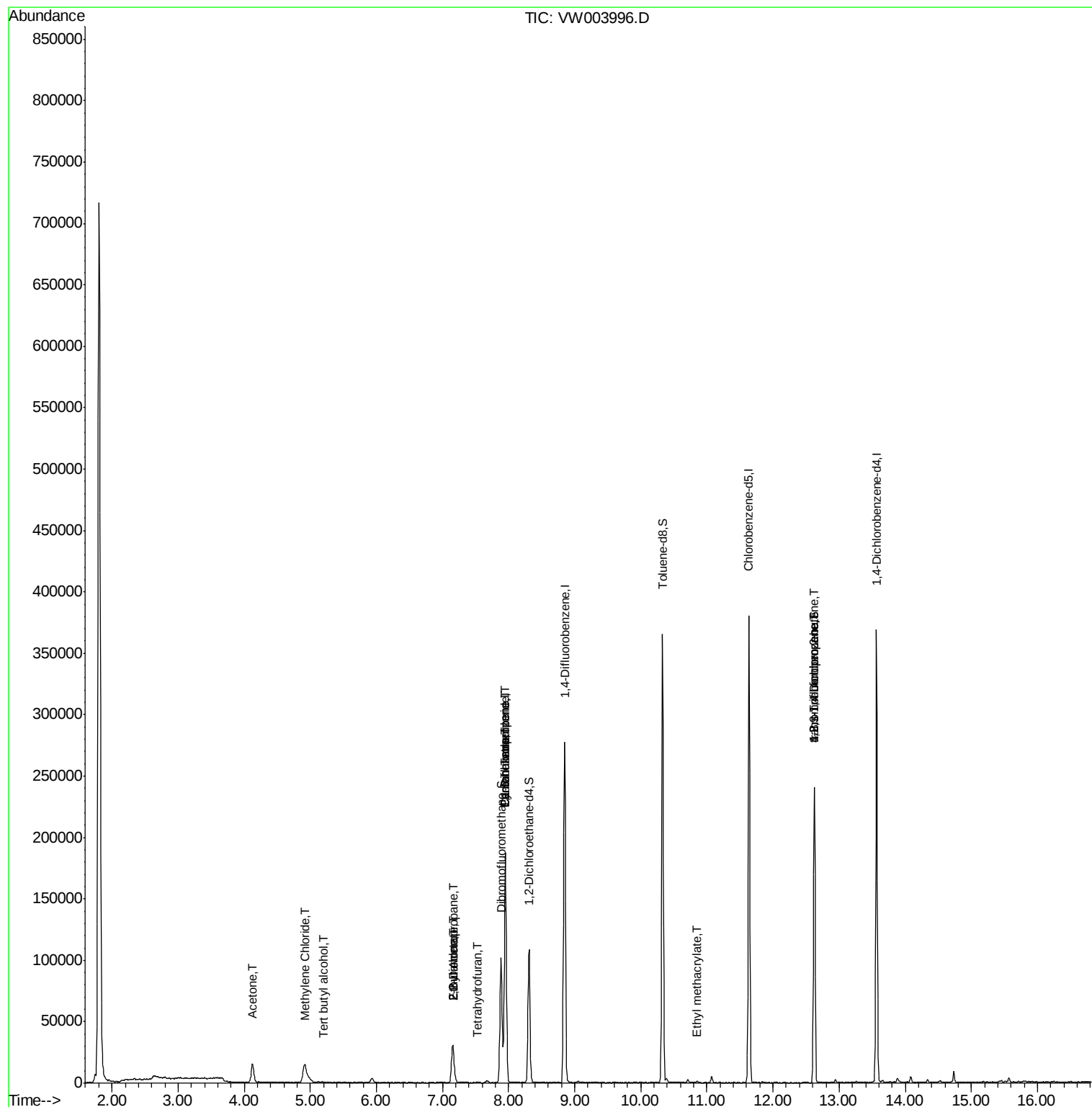
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 5.20  | 59   | 539      | 5.325  | ug/l # | 83     |
| 16) Acetone                    | 4.13  | 43   | 26263    | 74.537 | ug/l   | 89     |
| 20) Methylene Chloride         | 4.92  | 84   | 13808    | 1.206  | ug/l   | 95     |
| 25) 2-Butanone                 | 7.15  | 43   | 2904     | 6.124  | ug/l # | 68     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 2114     | 1.419  | ug/l # | 52     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 439      | 1.486  | ug/l # | 50     |
| 31) Cyclohexane                | 7.95  | 56   | 3655     | 1.503  | ug/l # | 22     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 11493    | 5.073  | ug/l # | 46     |
| 37) Ethyl Acetate              | 7.15  | 43   | 2904     | 2.658  | ug/l # | 14     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 13206    | 6.239  | ug/l # | 19     |
| 56) Ethyl methacrylate         | 10.85 | 69   | 61       | 2.980  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 38532    | 42.740 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 38532    | 94.541 | ug/l # | 11     |

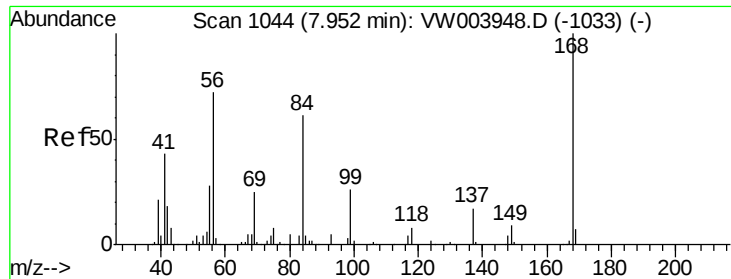
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW071718\  
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Sample : J3997-11  
Misc : 5.04G/5ML/MSVOA W/SOIL  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-H-S

Quant Time: Jul 18 04:51:28 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W071618S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 16 15:06:12 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: VW003996.D

Acq: 17 Jul 2018 20:05

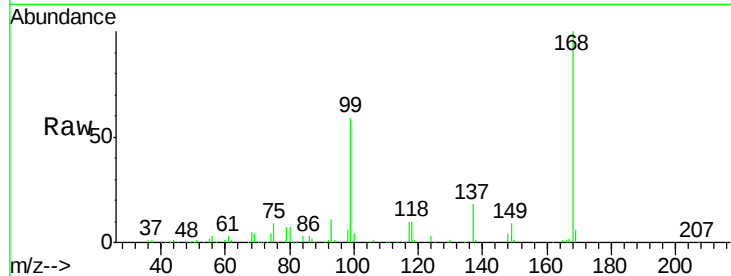
Instrument :  
MSVOA\_W  
ClientSampled :  
TP-H-S

Tot Ion:168 Resp: 131177

Ion Ratio Lower Upper

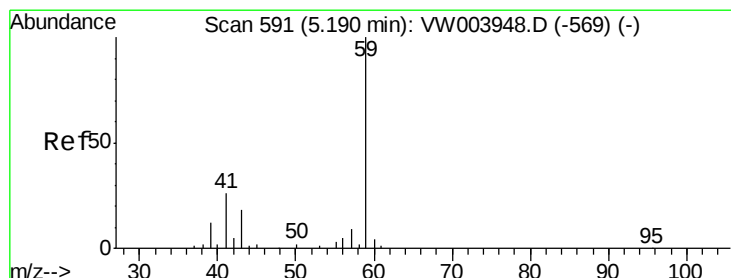
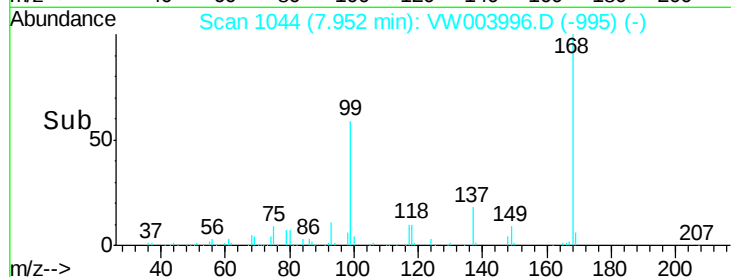
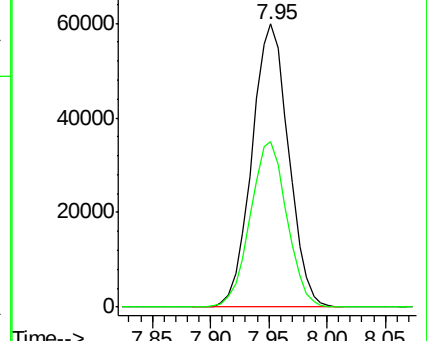
168 100

99 58.7 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 5.325 ug/l

RT: 5.20 min Scan# 592

Delta R.T. 0.01 min

Lab File: VW003996.D

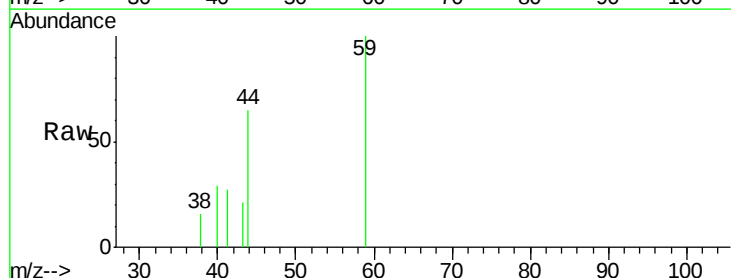
Acq: 17 Jul 2018 20:05

Tgt Ion: 59 Resp: 539

Ion Ratio Lower Upper

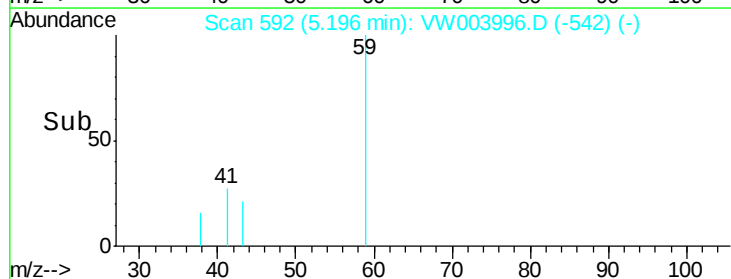
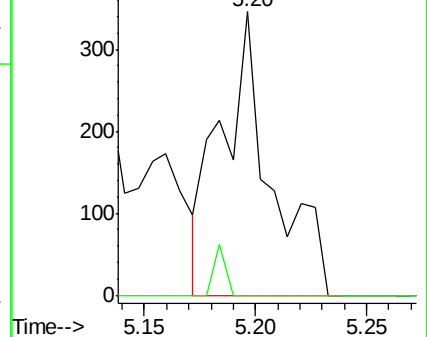
59 100

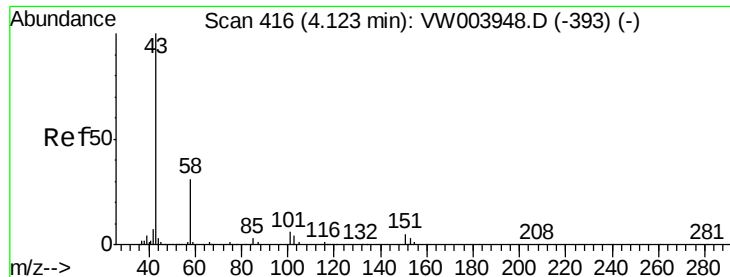
57 4.3 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

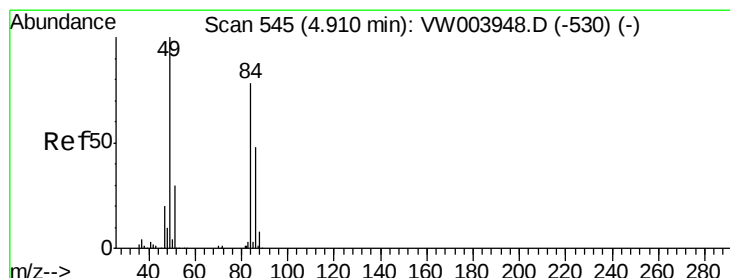
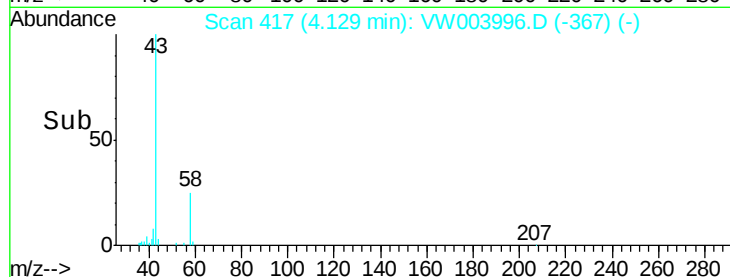
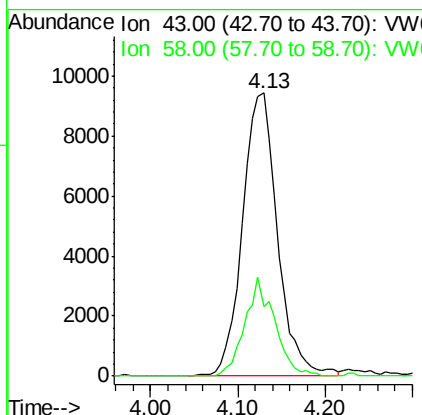
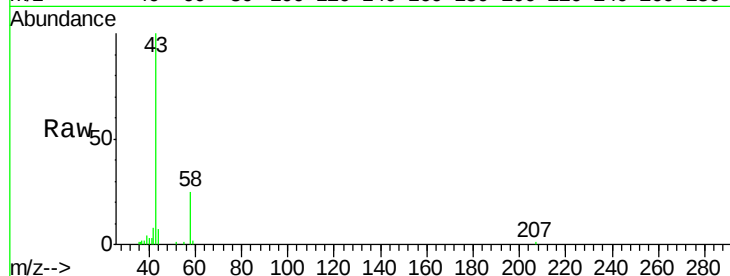




#16  
Acetone  
Concen: 74.537 ug/l  
RT: 4.13 min Scan# 417  
Delta R.T. 0.01 min  
Lab File: VW003996.D  
Acq: 17 Jul 2018 20:05

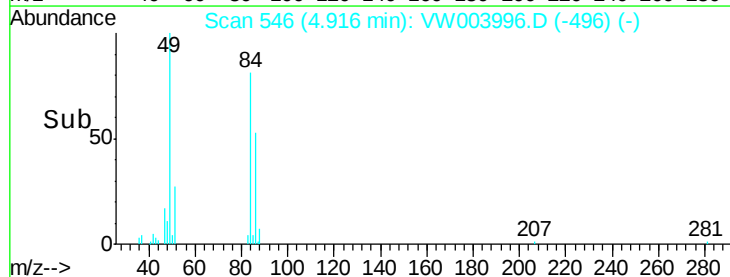
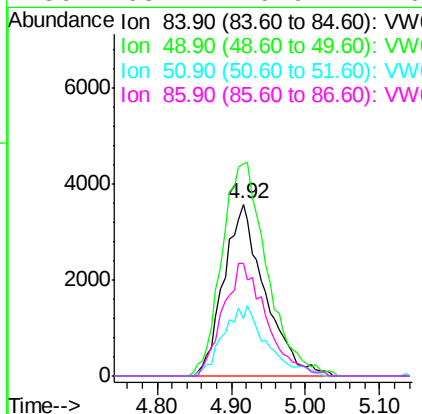
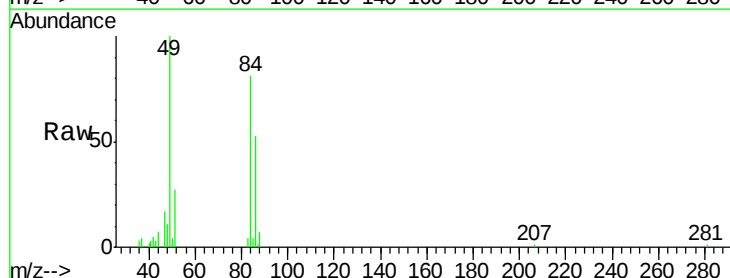
Instrument :  
MSVOA\_W  
ClientSampled :  
TP-H-S

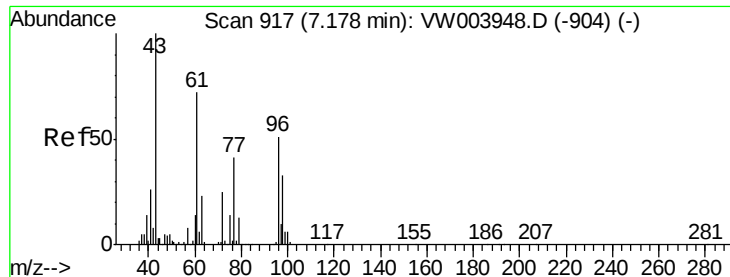
Tot Ion: 43 Resp: 26263  
Ion Ratio Lower Upper  
43 100  
58 24.6 24.5 36.7



#20  
Methylene Chloride  
Concen: 1.206 ug/l  
RT: 4.92 min Scan# 546  
Delta R.T. 0.01 min  
Lab File: VW003996.D  
Acq: 17 Jul 2018 20:05

Tgt Ion: 84 Resp: 13808  
Ion Ratio Lower Upper  
84 100  
49 123.6 102.9 154.3  
51 33.4 30.9 46.3  
86 65.4 49.9 74.9

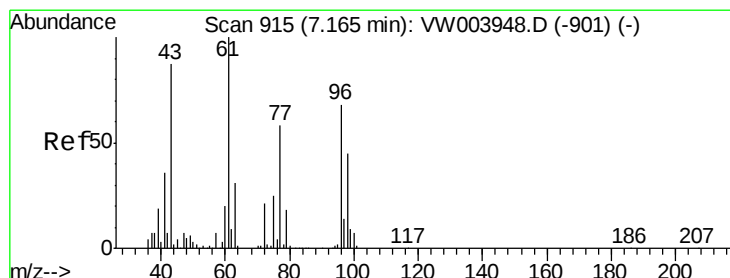
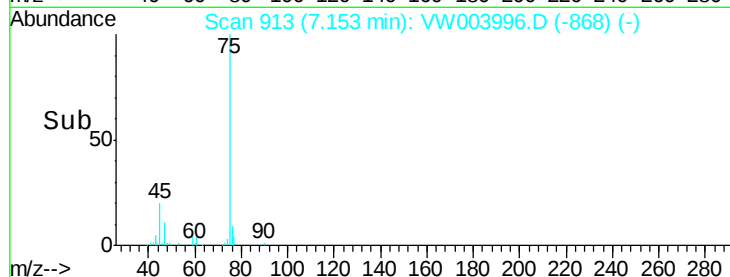
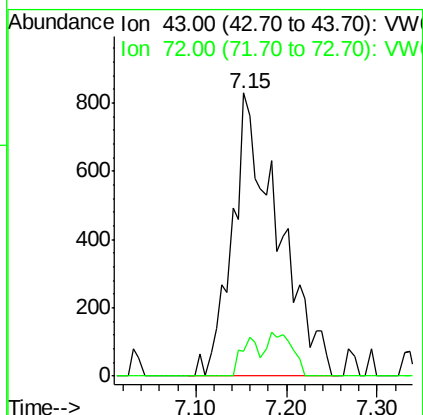
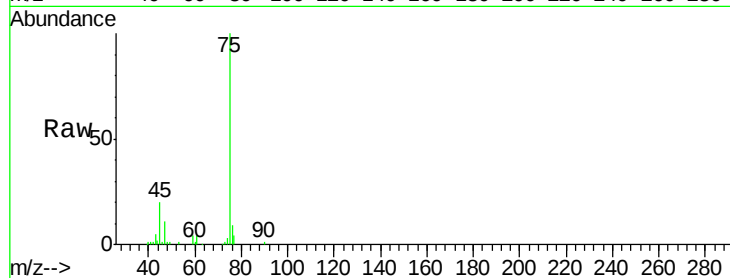




#25  
 2-Butanone  
 Concen: 6.124 ug/l  
 RT: 7.15 min Scan# 913  
 Delta R.T. -0.02 min  
 Lab File: VW003996.D  
 Acq: 17 Jul 2018 20:05

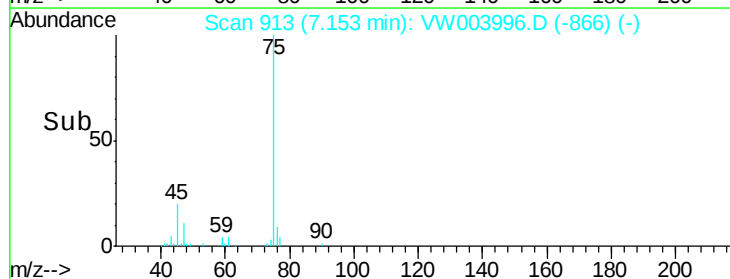
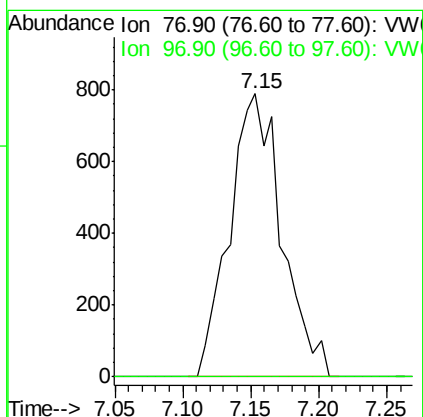
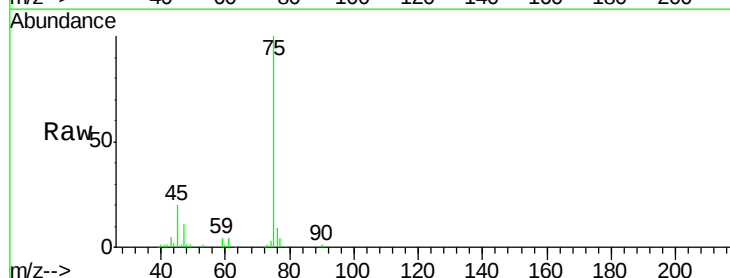
Instrument :  
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 ClientSampleId :  
 TP-H-S

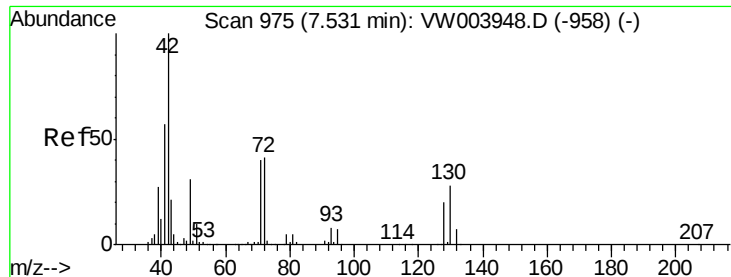
Tot Ion: 43 Resp: 2904  
 Ion Ratio Lower Upper  
 43 100  
 72 8.9 19.8 29.6#



#26  
 2,2-Dichloropropane  
 Concen: 1.419 ug/l  
 RT: 7.15 min Scan# 913  
 Delta R.T. -0.01 min  
 Lab File: VW003996.D  
 Acq: 17 Jul 2018 20:05

Tgt Ion: 77 Resp: 2114  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 11.8 35.3#

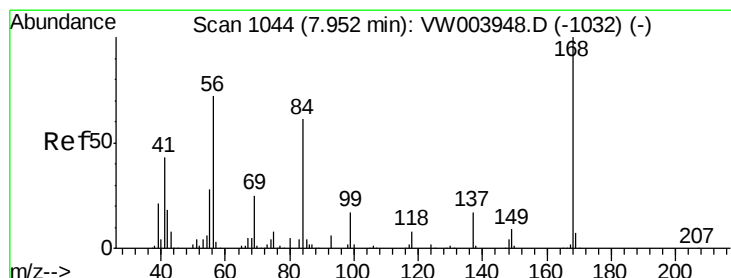
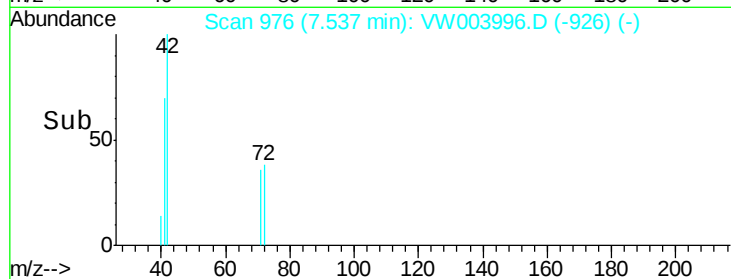
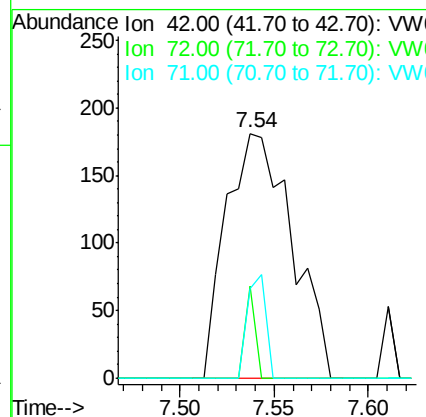
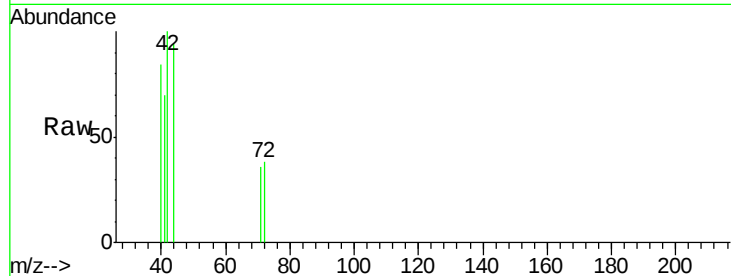




#29  
Tetrahydrofuran  
Concen: 1.486 ug/l  
RT: 7.54 min Scan# 976  
Delta R.T. 0.01 min  
Lab File: VW003996.D  
Acq: 17 Jul 2018 20:05

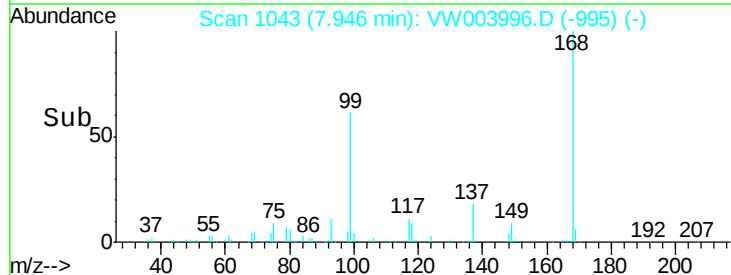
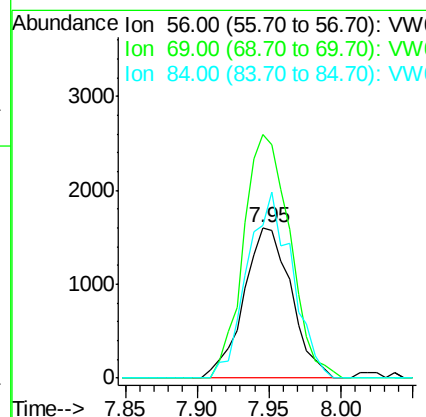
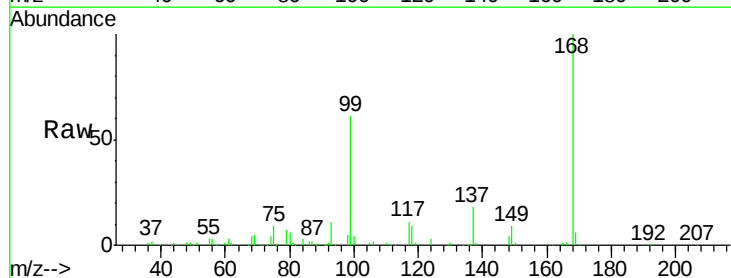
Instrument :  
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ClientSampleId :  
TP-H-S

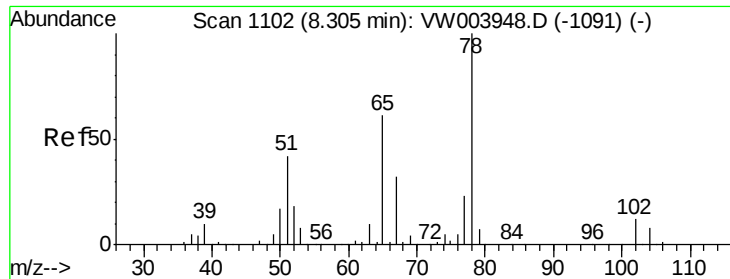
Tot Ion: 42 Resp: 439  
Ion Ratio Lower Upper  
42 100  
72 5.7 32.6 48.8#  
71 11.8 30.5 45.7#



#31  
Cyclohexane  
Concen: 1.503 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: VW003996.D  
Acq: 17 Jul 2018 20:05

Tgt Ion: 56 Resp: 3655  
Ion Ratio Lower Upper  
56 100  
69 162.0 27.8 41.8#  
84 101.9 67.2 100.8#

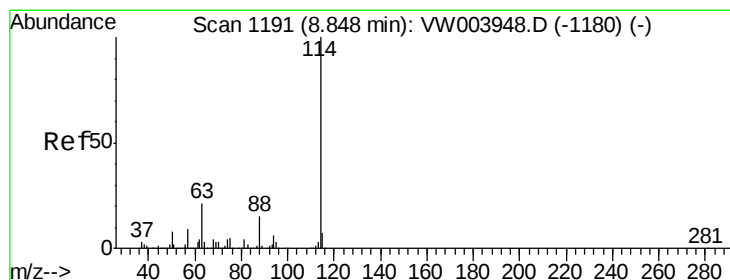
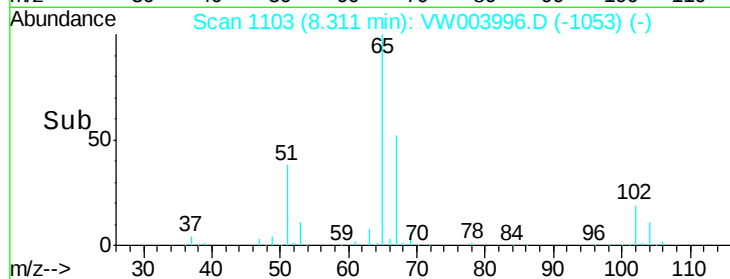
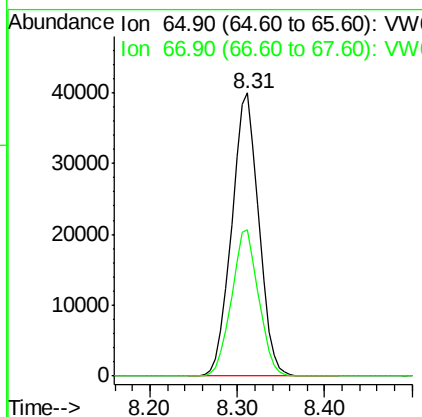
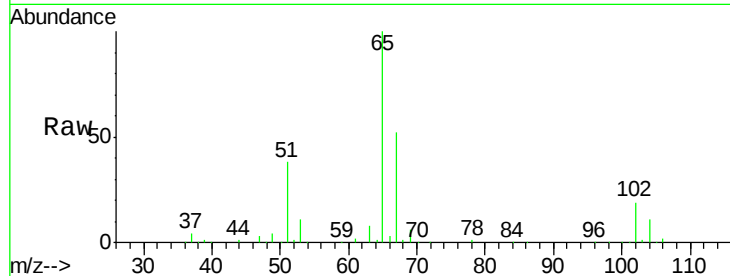




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.674 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. 0.01 min  
 Lab File: VW003996.D  
 Acq: 17 Jul 2018 20:05

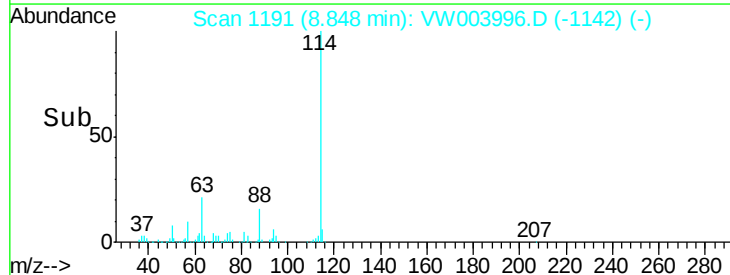
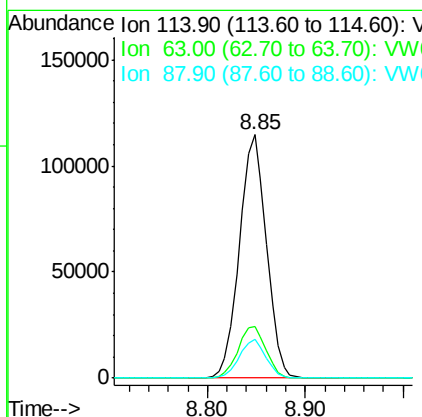
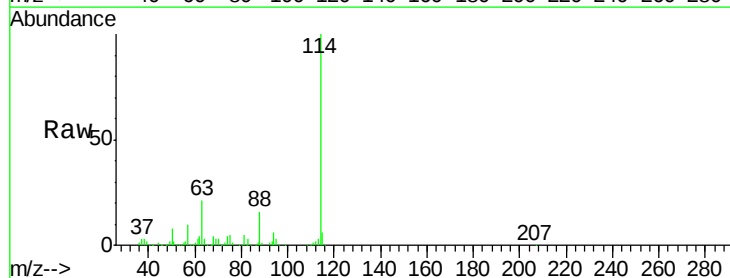
Instrument :  
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 ClientSampled :  
 TP-H-S

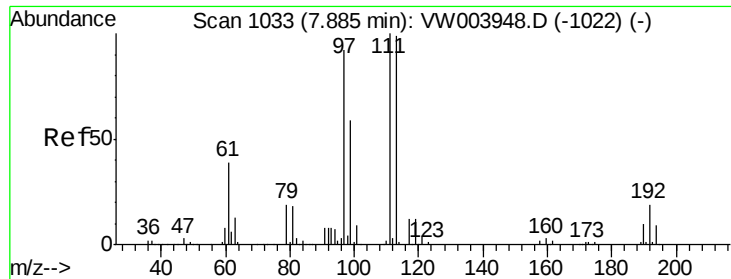
Tot Ion: 65 Resp: 86033  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 105.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW003996.D  
 Acq: 17 Jul 2018 20:05

Tgt Ion: 114 Resp: 220192  
 Ion Ratio Lower Upper  
 114 100  
 63 21.2 0.0 42.8  
 88 15.9 0.0 30.4

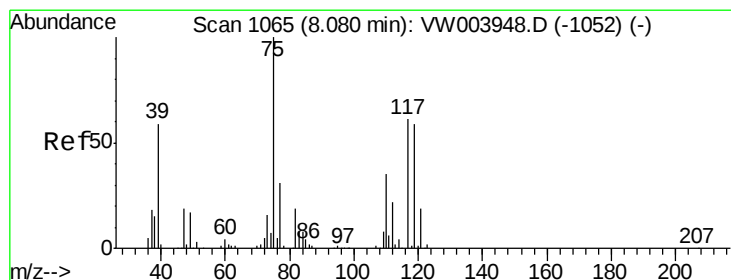
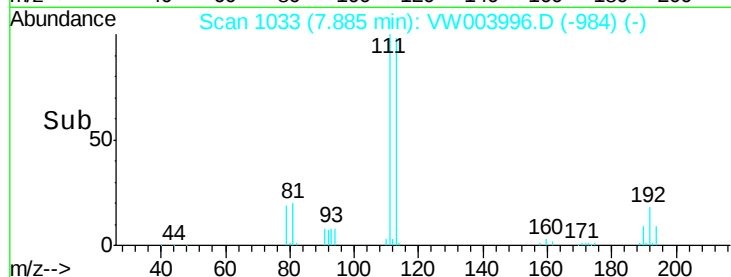
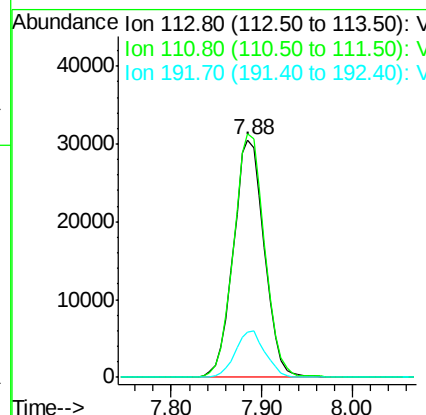
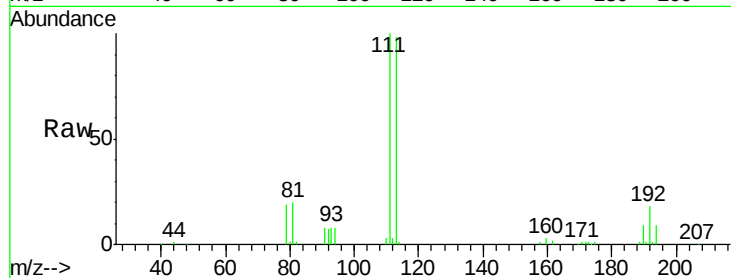




#35  
 Dibromofluoromethane  
 Concen: 50.927 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. 0.00 min  
 Lab File: VW003996.D  
 Acq: 17 Jul 2018 20:05

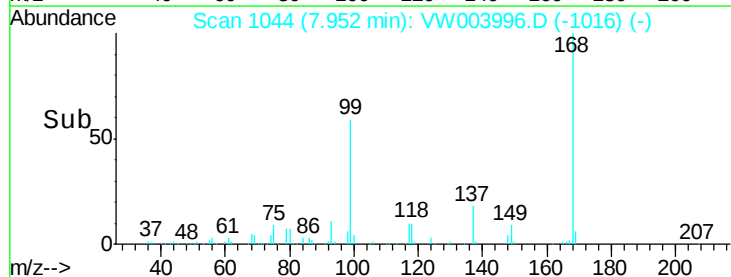
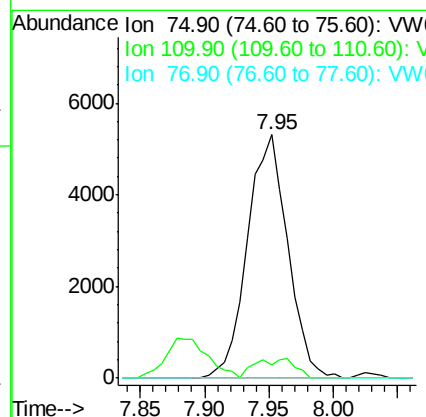
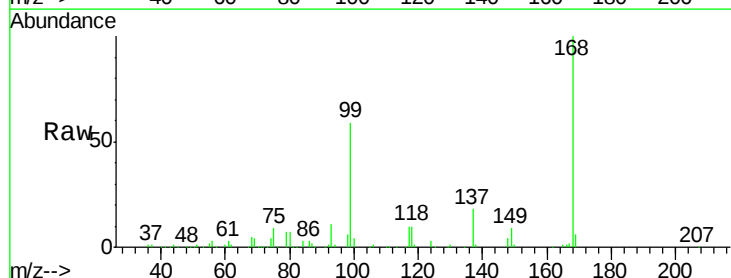
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-H-S

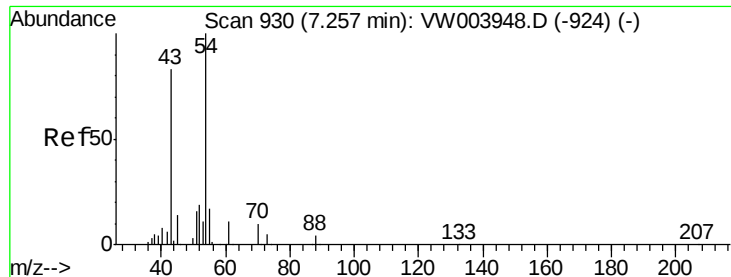
Tot Ion:113 Resp: 71950  
 Ion Ratio Lower Upper  
 113 100  
 111 102.9 81.3 121.9  
 192 19.1 15.8 23.6



#36  
 1,1-Dichloropropene  
 Concen: 5.073 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW003996.D  
 Acq: 17 Jul 2018 20:05

Tgt Ion: 75 Resp: 11493  
 Ion Ratio Lower Upper  
 75 100  
 110 4.0 17.0 51.0#  
 77 0.0 24.9 37.3#

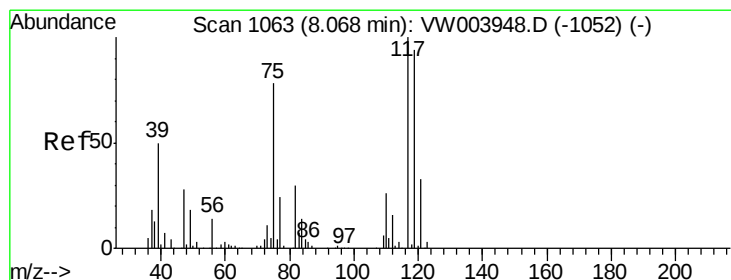
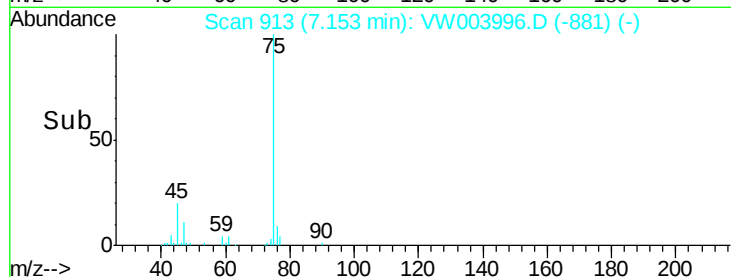
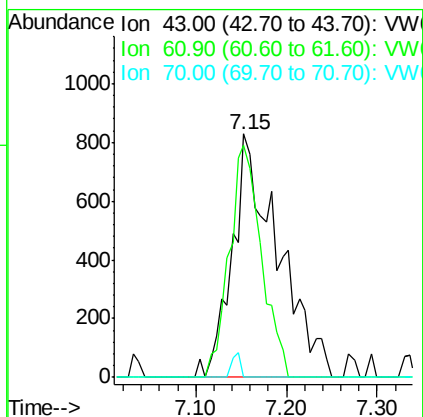
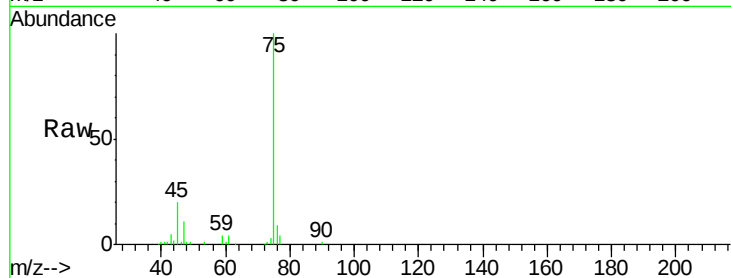




#37  
Ethyl Acetate  
Concen: 2.658 ug/l  
RT: 7.15 min Scan# 913  
Delta R.T. -0.10 min  
Lab File: VW003996.D  
Acq: 17 Jul 2018 20:05

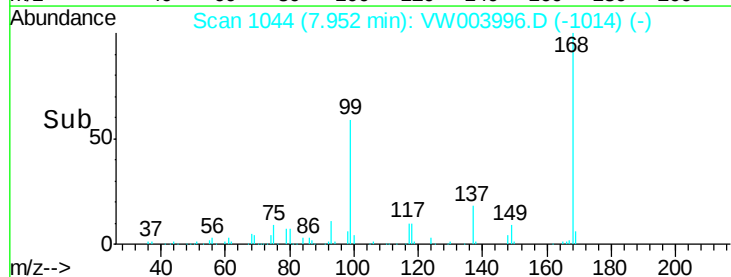
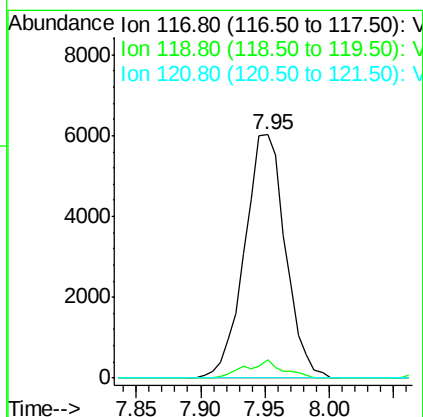
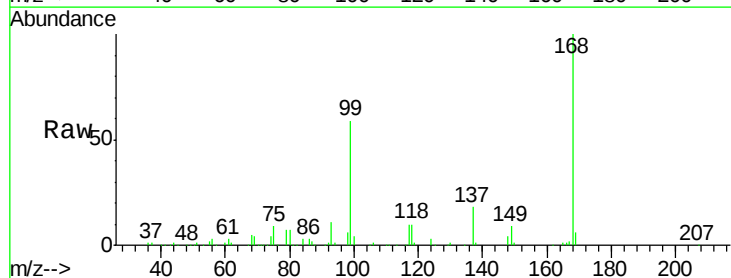
Instrument :  
MSVOA\_W  
ClientSampled :  
TP-H-S

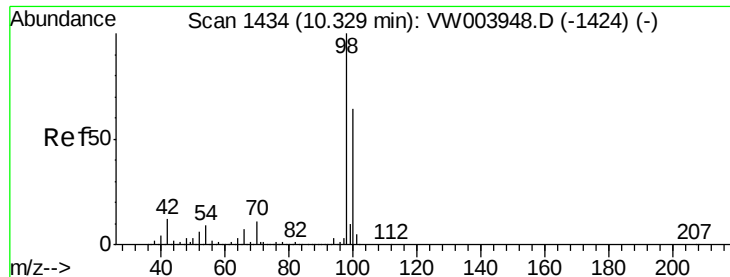
Tot Ion: 43 Resp: 2904  
Ion Ratio Lower Upper  
43 100  
61 66.8 10.7 16.1#  
70 1.9 7.7 11.5#



#38  
Carbon Tetrachloride  
Concen: 6.239 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. -0.12 min  
Lab File: VW003996.D  
Acq: 17 Jul 2018 20:05

Tgt Ion: 117 Resp: 13206  
Ion Ratio Lower Upper  
117 100  
119 7.6 75.3 112.9#  
121 0.0 26.0 39.0#





#50

Toluene-d8

Concen: 42.902 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW003996.D

Acq: 17 Jul 2018 20:05

Instrument :

MSVOA\_W

ClientSampled :

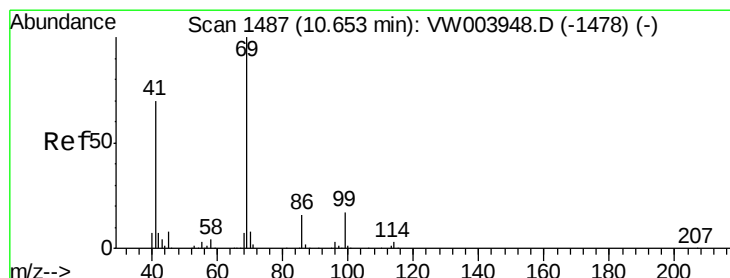
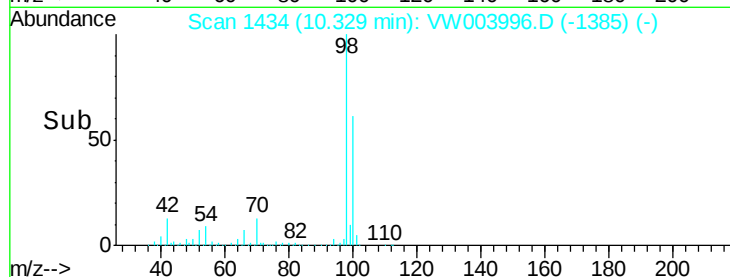
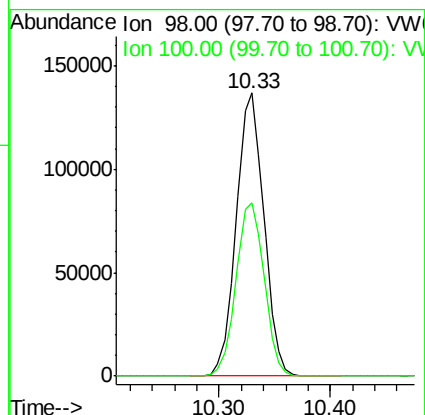
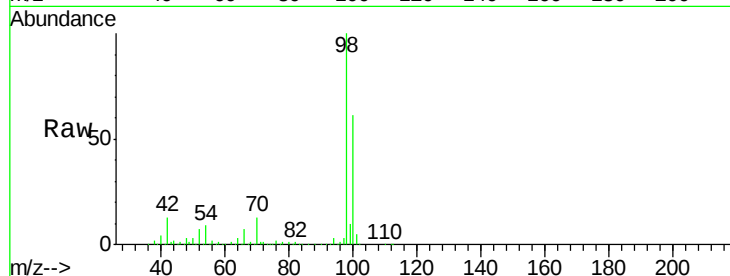
TP-H-S

Tot Ion: 98 Resp: 235192

Ion Ratio Lower Upper

98 100

100 62.2 51.2 76.8



#56

Ethyl methacrylate

Concen: 2.980 ug/l

RT: 10.85 min Scan# 1519

Delta R.T. 0.20 min

Lab File: VW003996.D

Acq: 17 Jul 2018 20:05

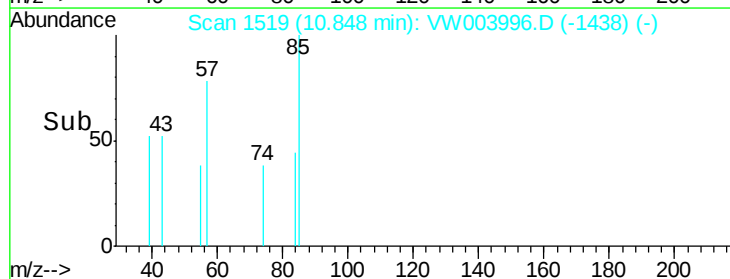
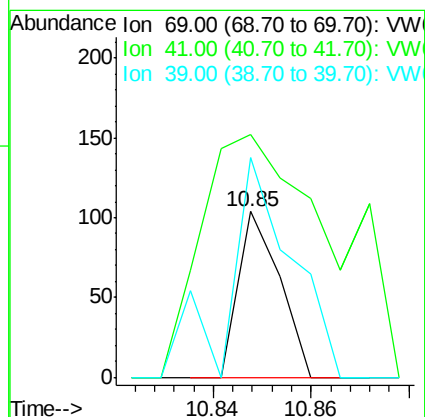
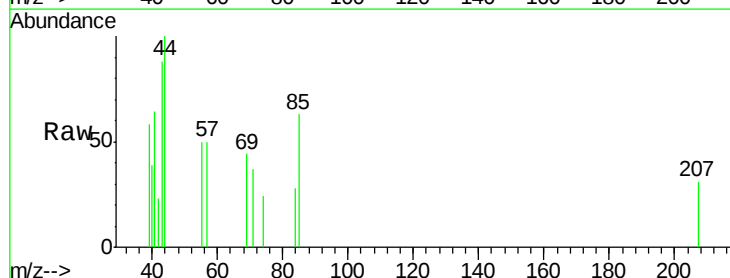
Tgt Ion: 69 Resp: 61

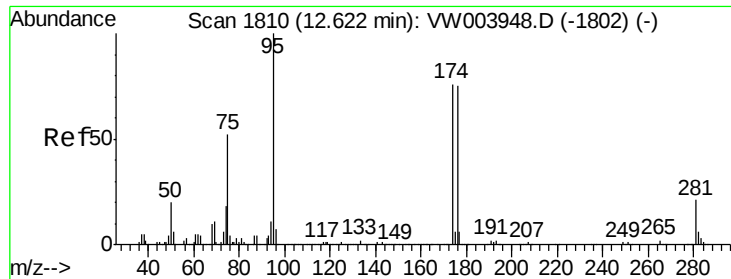
Ion Ratio Lower Upper

69 100

41 463.9 56.5 84.7#

39 201.6 30.2 45.4#

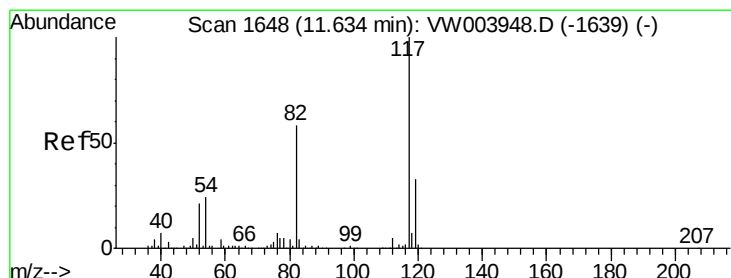
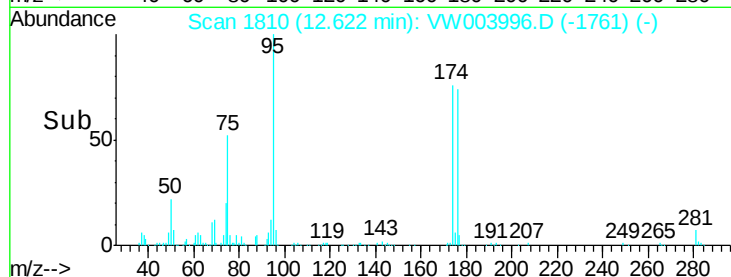
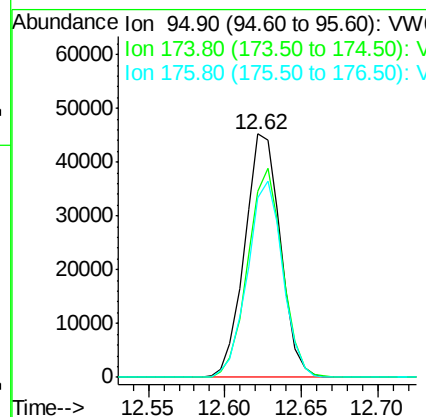
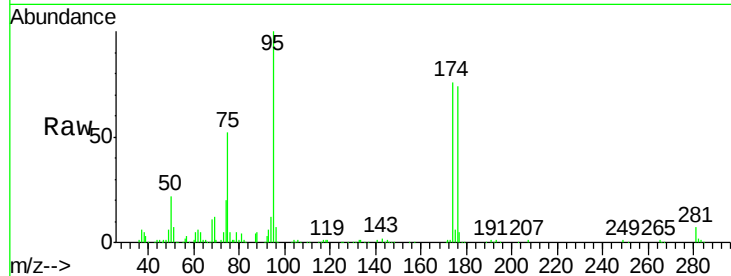




#62  
4-Bromofluorobenzene  
Concen: 37.122 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. 0.00 min  
Lab File: VW003996.D  
Acq: 17 Jul 2018 20:05

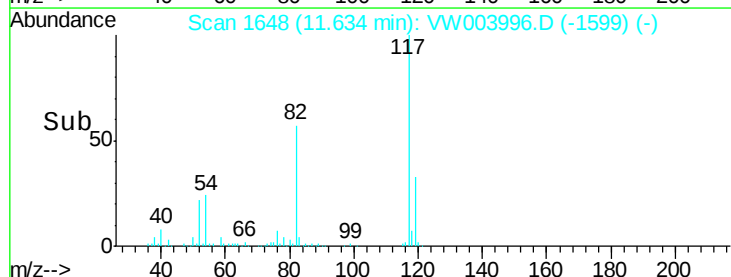
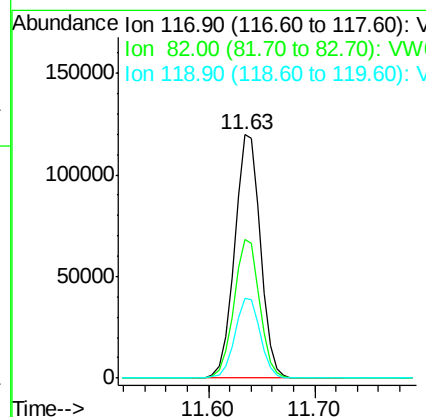
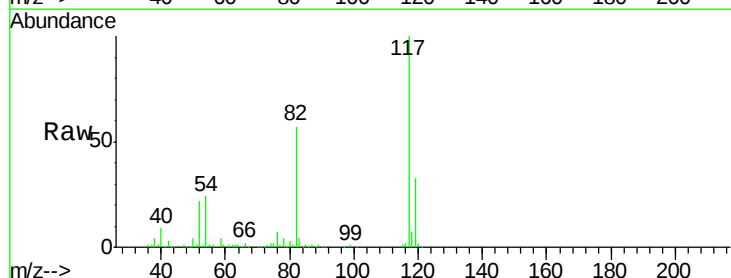
Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-H-S

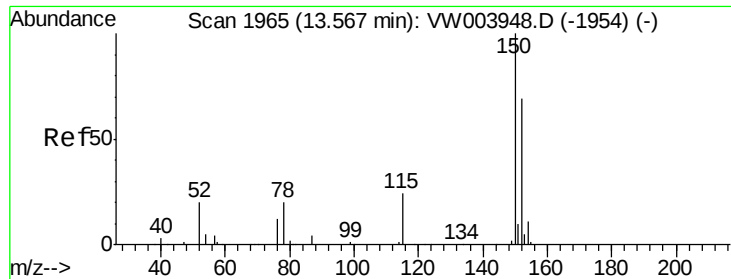
Tot Ion: 95 Resp: 73384  
Ion Ratio Lower Upper  
95 100  
174 83.2 0.0 160.2  
176 79.4 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. 0.00 min  
Lab File: VW003996.D  
Acq: 17 Jul 2018 20:05

Tgt Ion: 117 Resp: 202940  
Ion Ratio Lower Upper  
117 100  
82 57.1 46.5 69.7  
119 32.6 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VW003996.D

Acq: 17 Jul 2018 20:05

Instrument :

MSVOA\_W

ClientSampleId :

TP-H-S

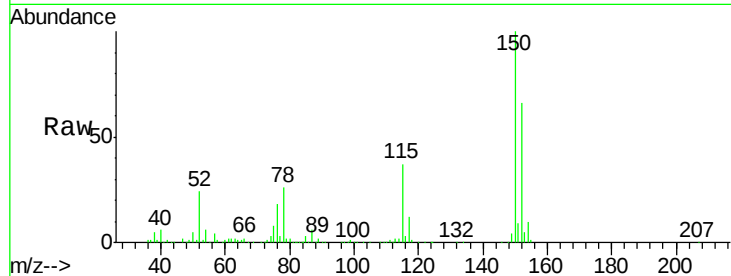
Tot Ion:152 Resp: 90810

Ion Ratio Lower Upper

152 100

115 56.7 29.2 87.6

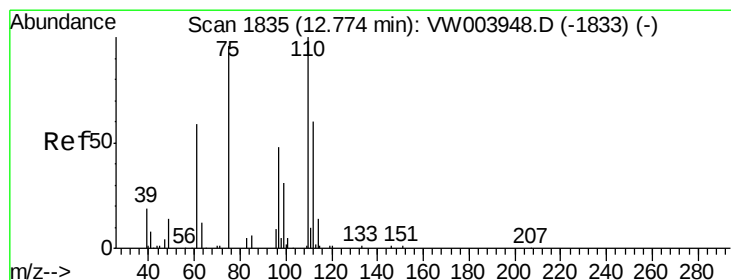
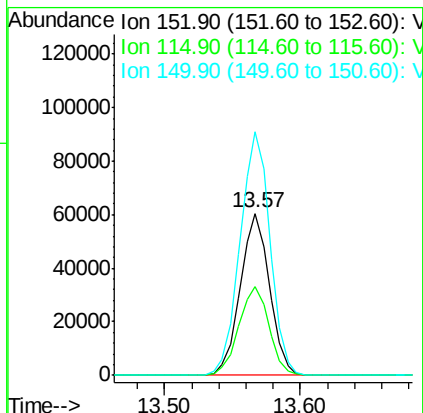
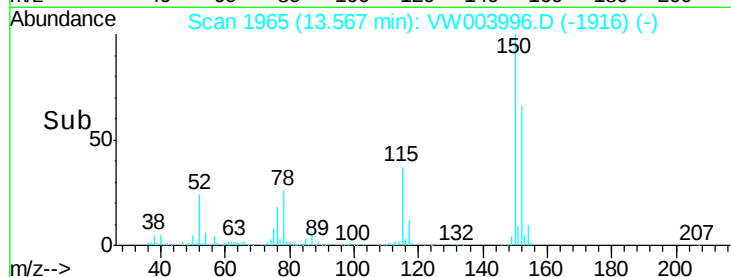
150 153.9 0.0 345.2



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: 42.740 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003996.D

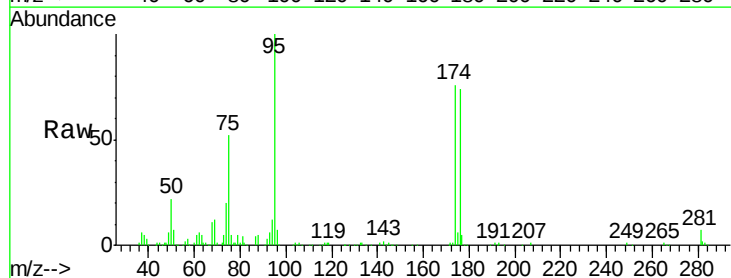
Acq: 17 Jul 2018 20:05

Tgt Ion: 75 Resp: 38532

Ion Ratio Lower Upper

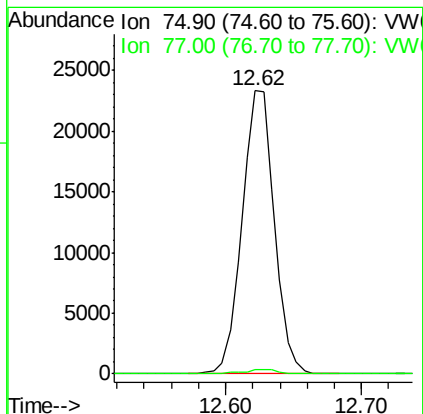
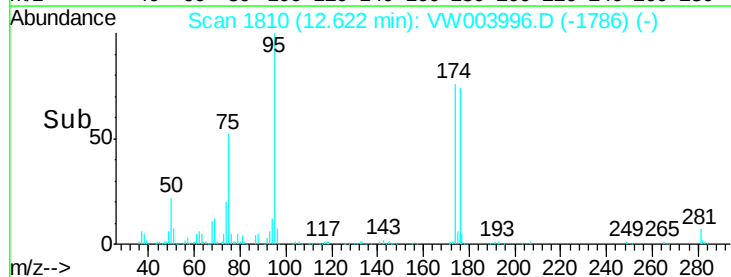
75 100

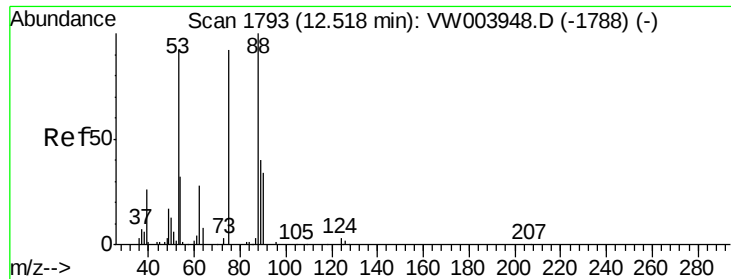
77 1.6 0.0 0.0#



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: 94.541 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW003996.D

Acq: 17 Jul 2018 20:05

Instrument :

MSVOA\_W

ClientSampleId :

TP-H-S

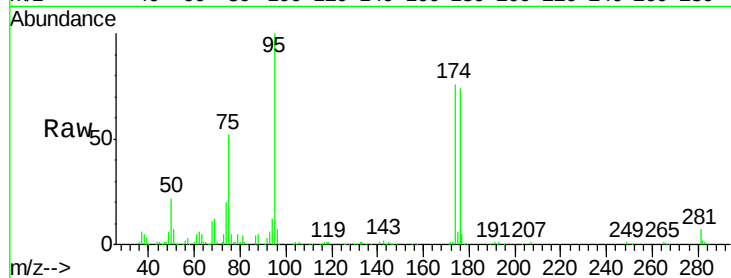
Tot Ion: 75 Resp: 38532

Ion Ratio Lower Upper

75 100

53 0.2 77.6 116.4#

89 0.1 36.6 54.8#



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

