

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW101218\  
 Data File : VW006028.D  
 Acq On : 11 Oct 2018 13:29  
 Operator : VA/AP  
 Sample : J5394-02RE  
 Misc : 7.92G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FK-GF-02-027-A

Quant Time: Oct 11 15:48:07 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100818S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 09 02:14:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 222946   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 334638   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 300702   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 149649   | 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   | 109164   | 50.44 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.88% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 107558   | 50.34 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.68% |          |
| 50) Toluene-d8              | 10.33 | 98   | 393145   | 47.83 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.66%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 139467   | 44.59 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 89.18%  |          |

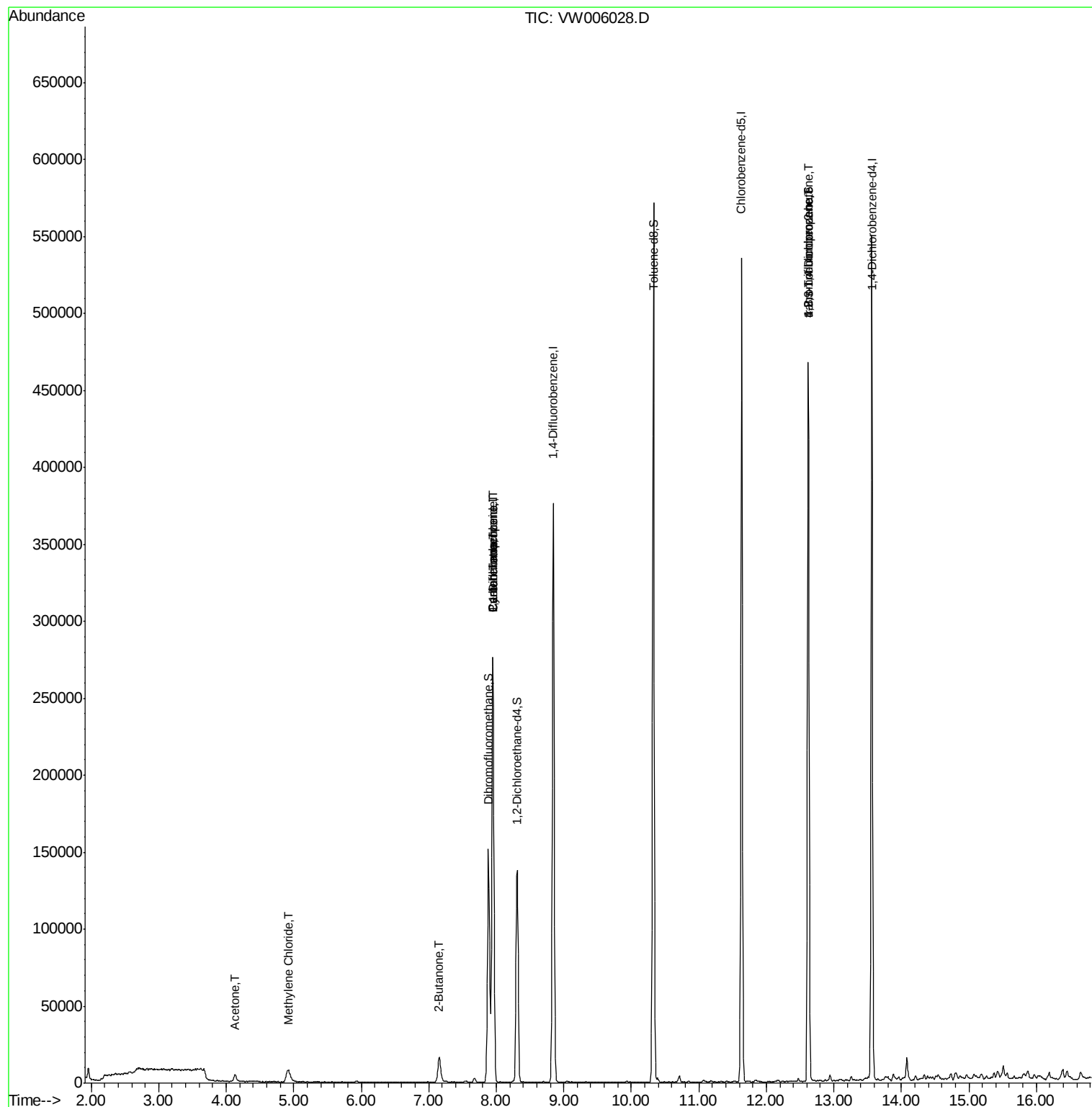
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 4.13  | 43   | 8864     | 20.50  | ug/l   | 94     |
| 20) Methylene Chloride         | 4.92  | 84   | 8183     | 3.78   | ug/l   | 92     |
| 25) 2-Butanone                 | 7.15  | 43   | 1051     | 1.71   | ug/l # | 49     |
| 31) Cyclohexane                | 7.95  | 56   | 4405     | 1.16   | ug/l # | 4      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 15108    | 4.71   | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 20179    | 5.86   | ug/l # | 14     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 72028    | 53.88  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 72028    | 113.75 | ug/l # | 11     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW101218\  
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Quant Title : SW846 8260  
QLast Update : Tue Oct 09 02:14:04 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW006028.D

Acq: 11 Oct 2018 13:29

Instrument :

MSVOA\_W

ClientSampleId :

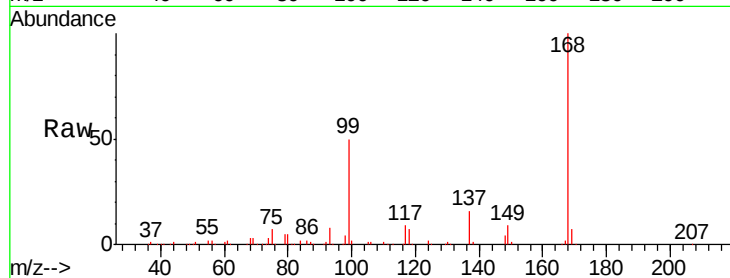
FK-GF-02-027-A

Tgt Ion:168 Resp: 222946

Ion Ratio Lower Upper

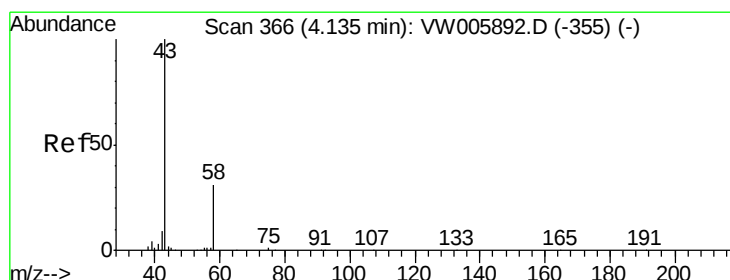
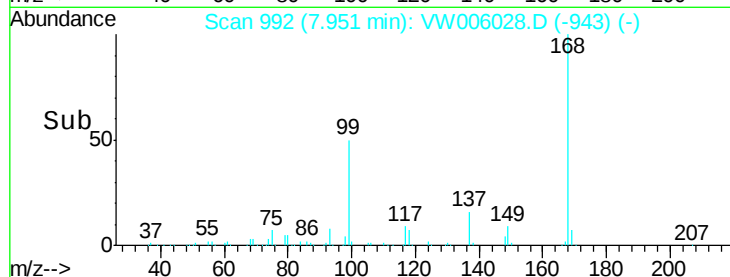
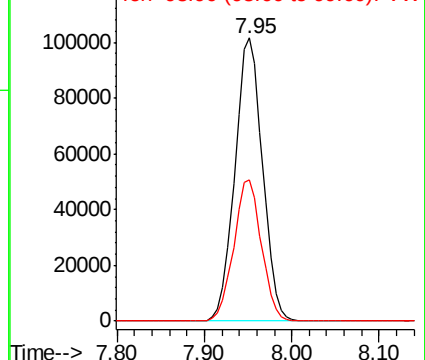
168 100

99 50.1 40.9 61.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 20.50 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW006028.D

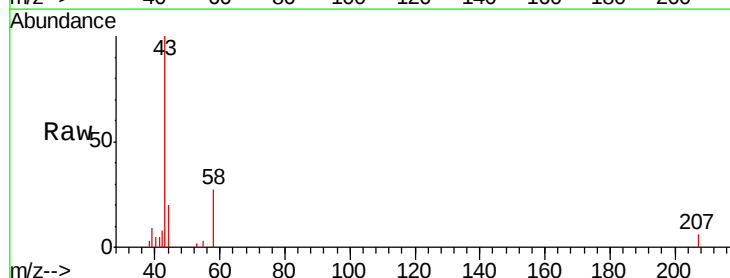
Acq: 11 Oct 2018 13:29

Tgt Ion: 43 Resp: 8864

Ion Ratio Lower Upper

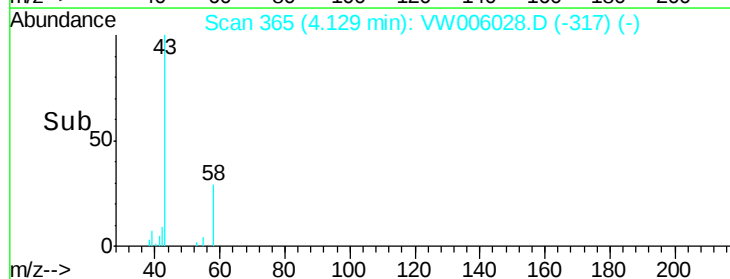
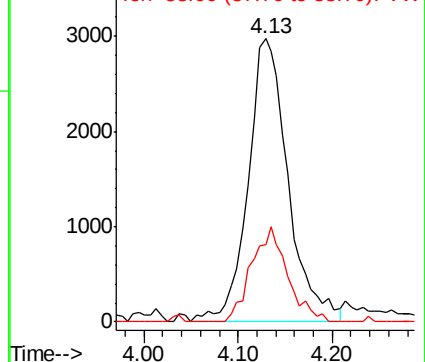
43 100

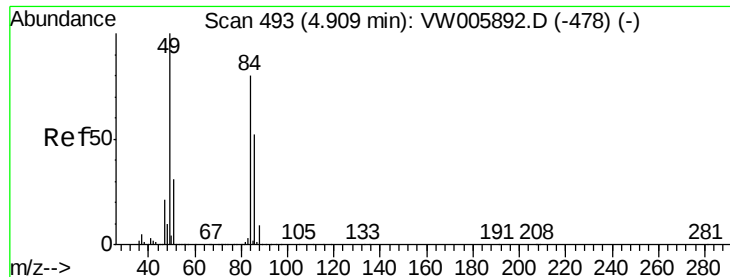
58 27.4 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

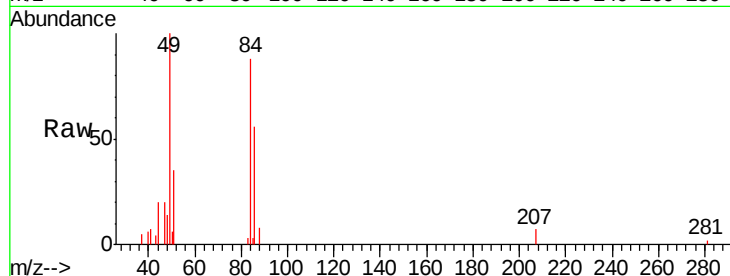




#20  
Methylene Chloride  
Concen: 3.78 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW006028.D  
Acq: 11 Oct 2018 13:29

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-GF-02-027-A

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 8183  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 109.9 | 99.9  | 149.9 |
| 51       | 40.3  | 31.1  | 46.7  |
| 86       | 64.1  | 51.8  | 77.6  |

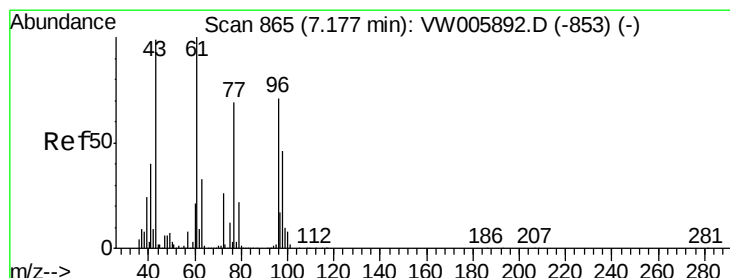
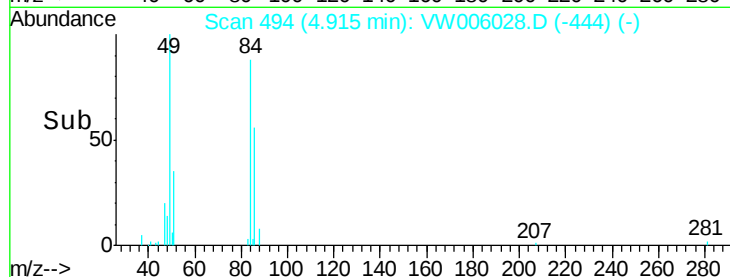
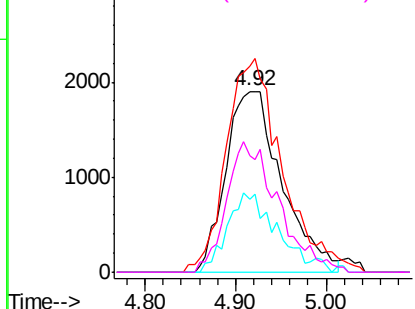


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

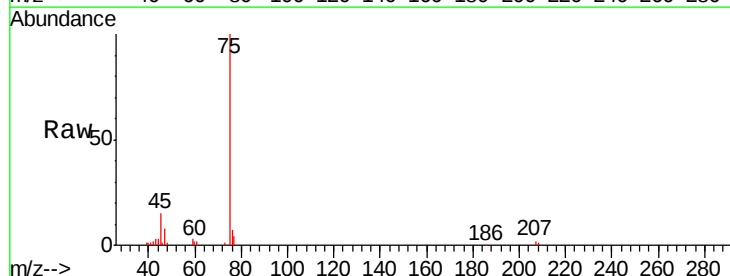
Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



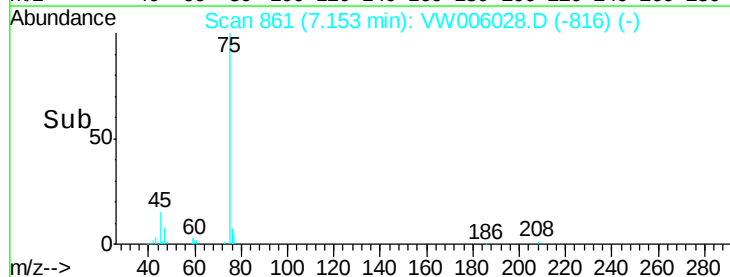
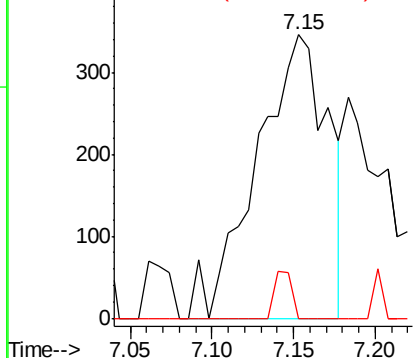
#25  
2-Butanone  
Concen: 1.71 ug/l  
RT: 7.15 min Scan# 861  
Delta R.T. -0.02 min  
Lab File: VW006028.D  
Acq: 11 Oct 2018 13:29

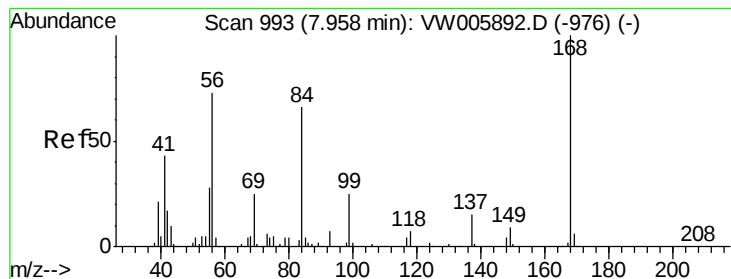
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1051  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 21.0  | 31.4# |



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#31

Cyclohexane

Concen: 1.16 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW006028.D

Acq: 11 Oct 2018 13:29

Instrument :

MSVOA\_W

ClientSampleId :

FK-GF-02-027-A

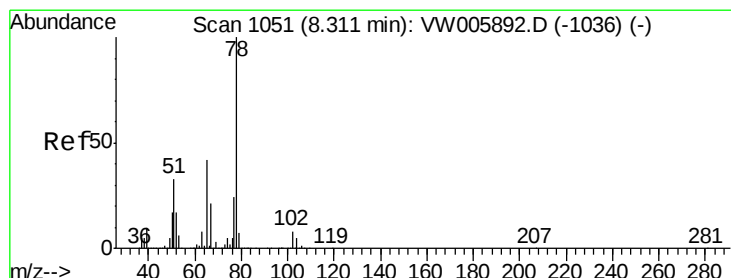
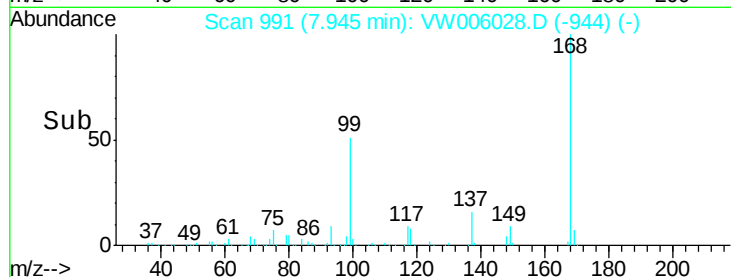
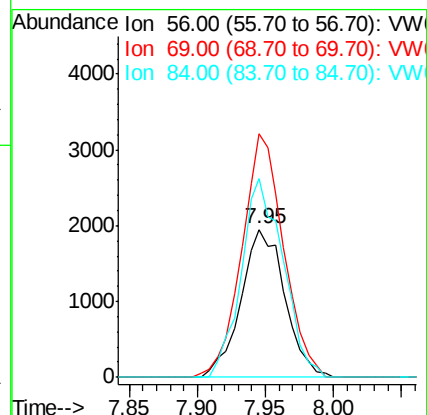
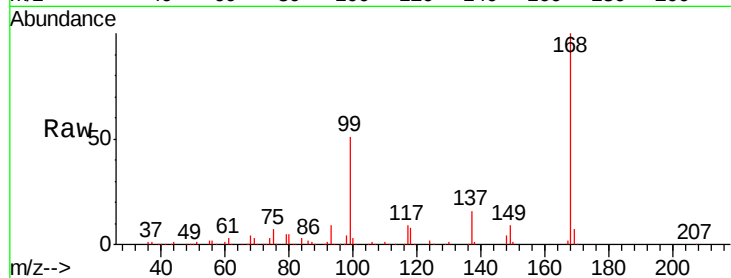
Tgt Ion: 56 Resp: 4405

Ion Ratio Lower Upper

56 100

69 164.3 27.9 41.9#

84 134.6 72.3 108.5#



#33

1,2-Dichloroethane-d4

Concen: 50.44 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW006028.D

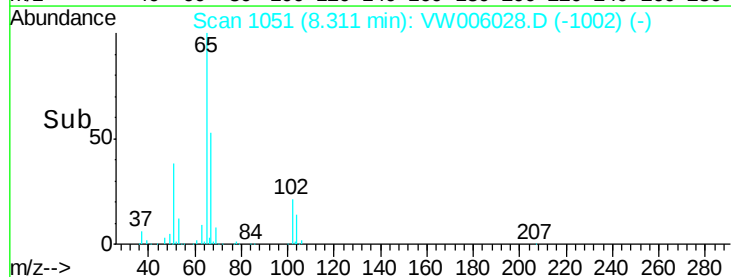
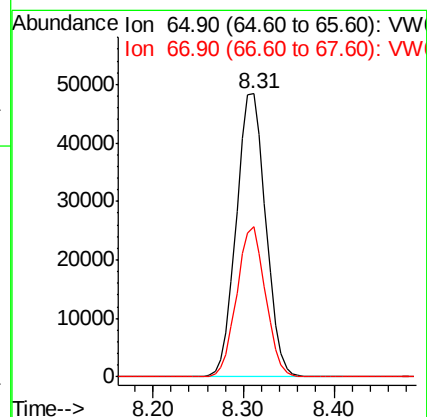
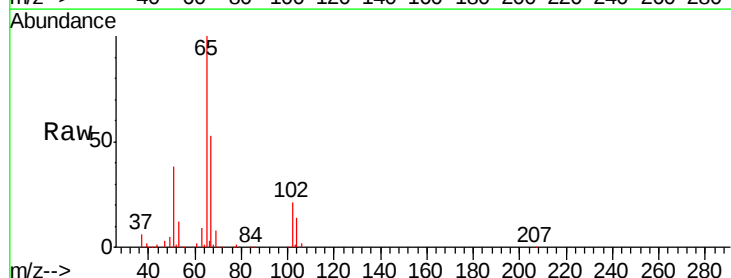
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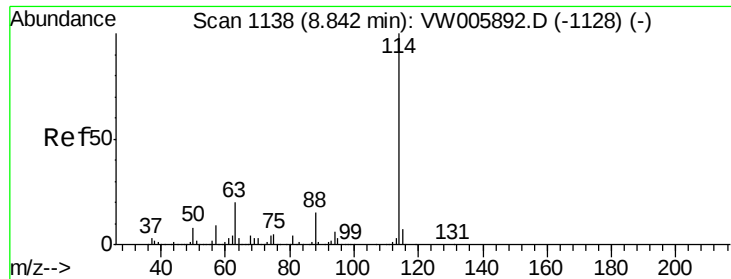
Tgt Ion: 65 Resp: 109164

Ion Ratio Lower Upper

65 100

67 51.7 0.0 104.6

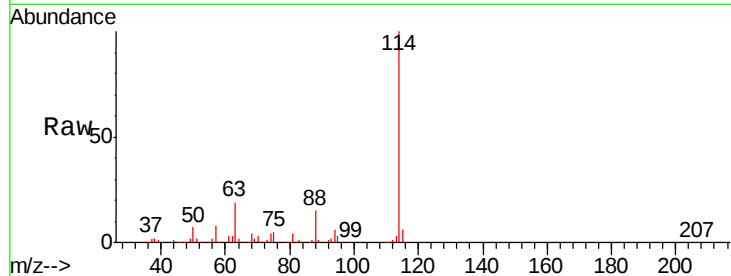




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.01 min  
 Lab File: VW006028.D  
 Acq: 11 Oct 2018 13:29

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FK-GF-02-027-A

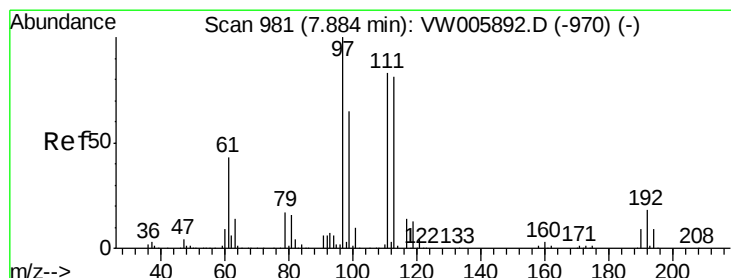
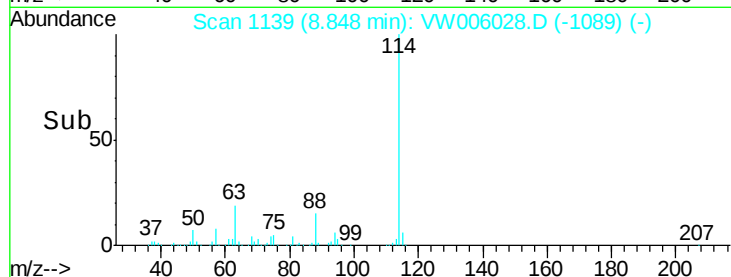
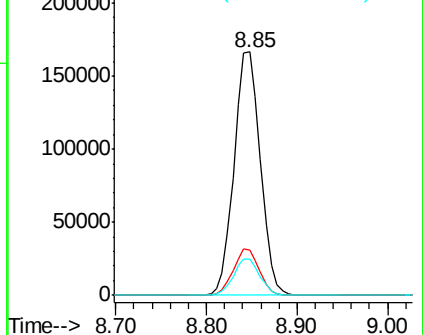
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.5  | 0.0   | 39.2  |
| 88      | 14.9  | 0.0   | 30.8  |



Abundance Ion 113.90 (113.60 to 114.60): V

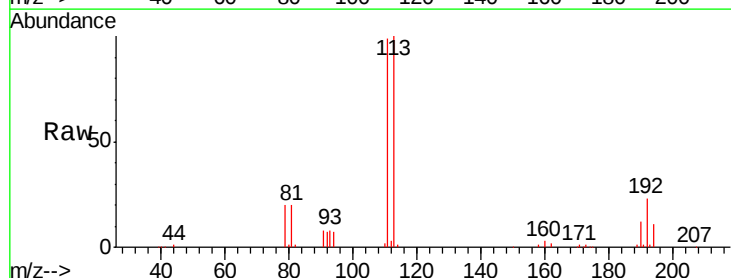
Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35  
 Dibromofluoromethane  
 Concen: 50.34 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. 0.01 min  
 Lab File: VW006028.D  
 Acq: 11 Oct 2018 13:29

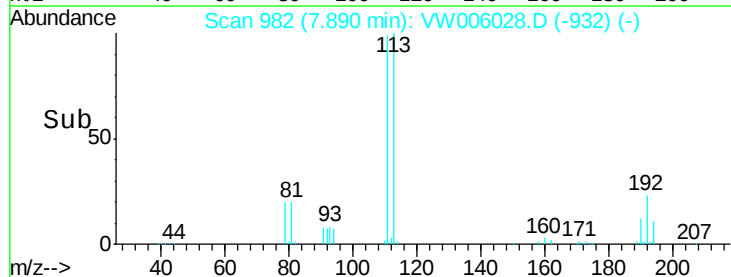
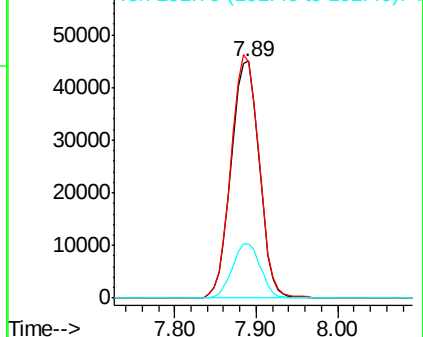
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.8 | 82.0  | 123.0 |
| 192     | 22.8  | 18.3  | 27.5  |

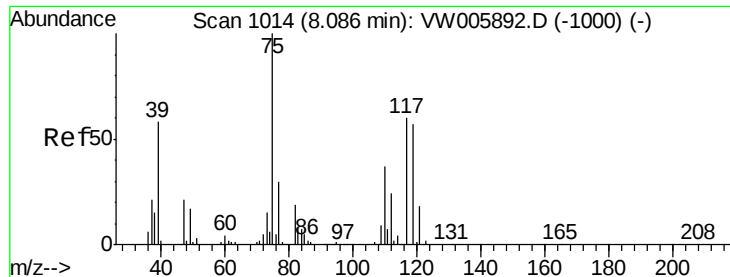


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

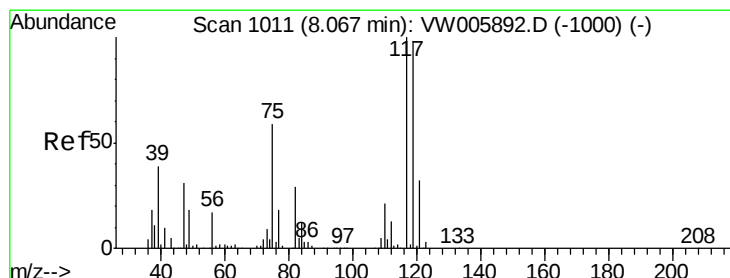
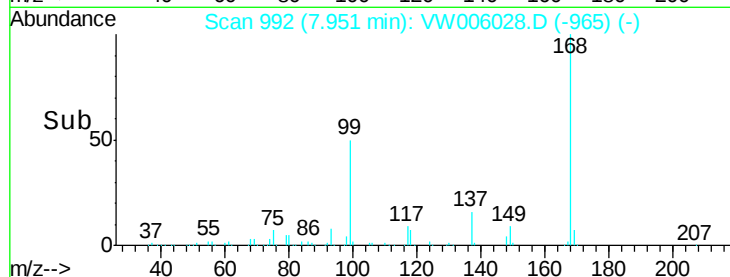
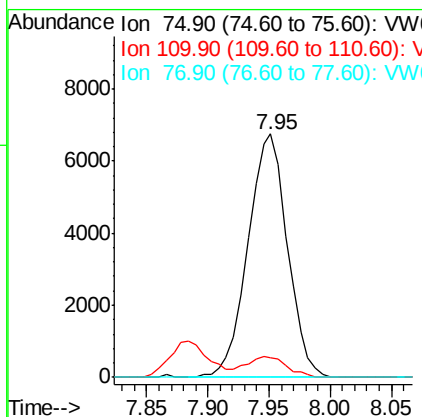
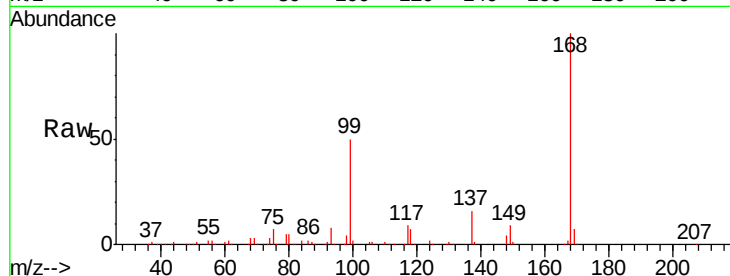




#36  
 1,1-Dichloropropene  
 Concen: 4.71 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW006028.D  
 Acq: 11 Oct 2018 13:29

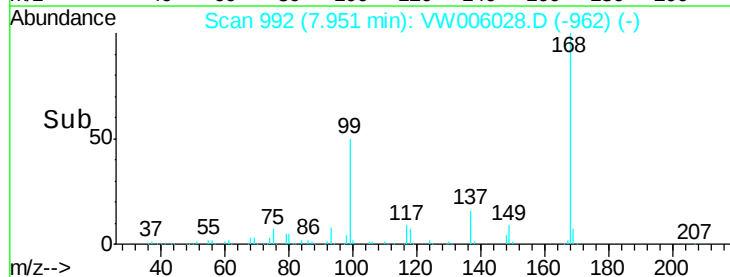
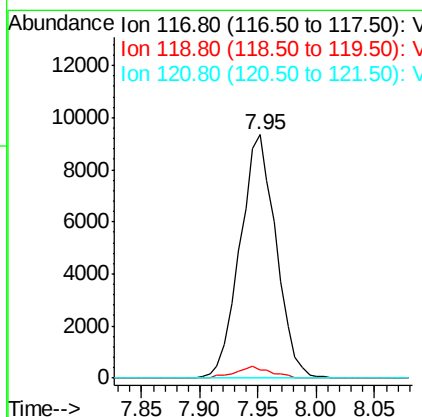
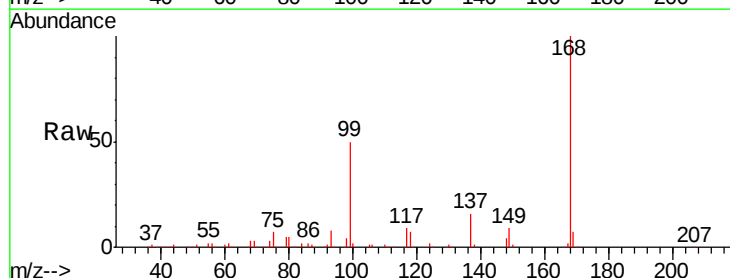
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FK-GF-02-027-A

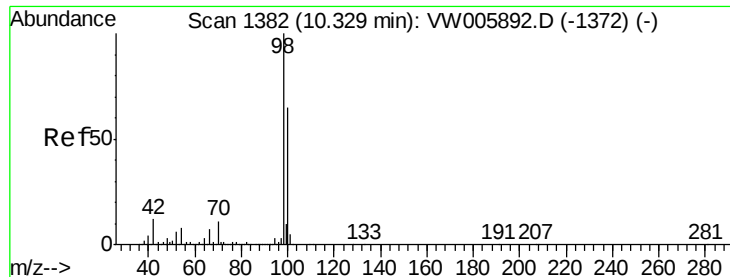
Tgt Ion: 75 Resp: 15108  
 Ion Ratio Lower Upper  
 75 100  
 110 8.6 18.6 56.0#  
 77 0.0 24.7 37.1#



#38  
 Carbon Tetrachloride  
 Concen: 5.86 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.12 min  
 Lab File: VW006028.D  
 Acq: 11 Oct 2018 13:29

Tgt Ion: 117 Resp: 20179  
 Ion Ratio Lower Upper  
 117 100  
 119 3.4 78.6 117.8#  
 121 0.0 25.3 37.9#





#50

Toluene-d8

Concen: 47.83 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW006028.D

Acq: 11 Oct 2018 13:29

Instrument :

MSVOA\_W

ClientSampleId :

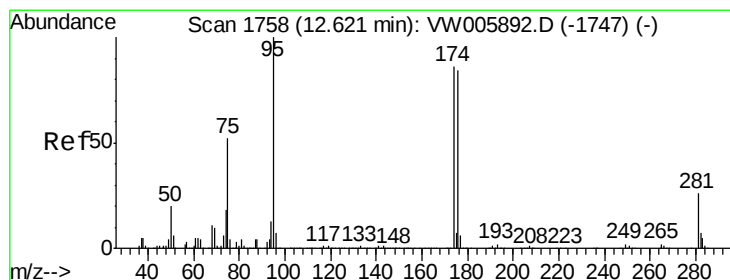
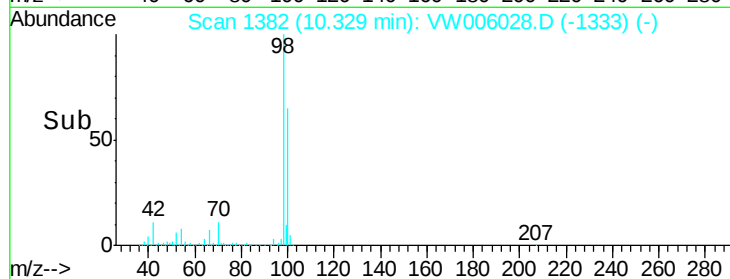
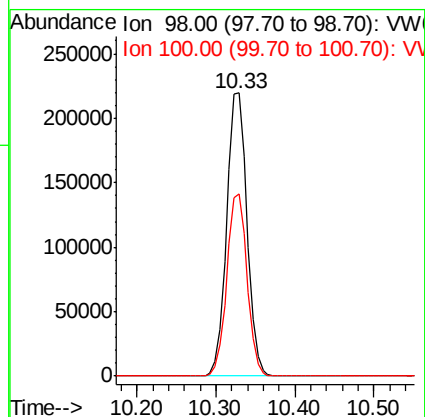
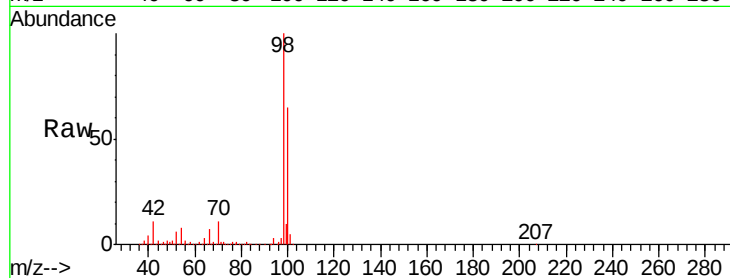
FK-GF-02-027-A

Tgt Ion: 98 Resp: 393145

Ion Ratio Lower Upper

98 100

100 64.1 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 44.59 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW006028.D

Acq: 11 Oct 2018 13:29

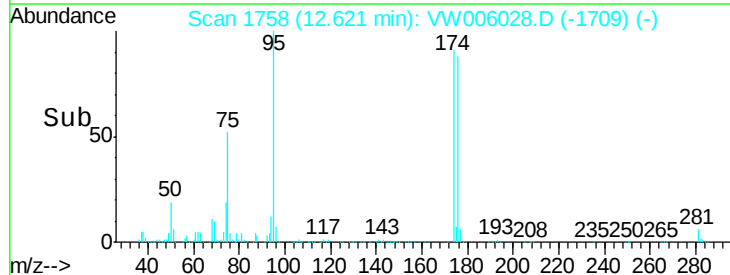
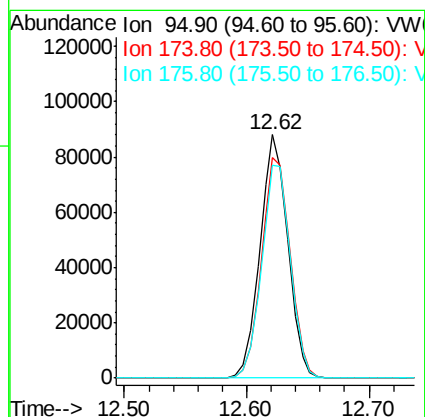
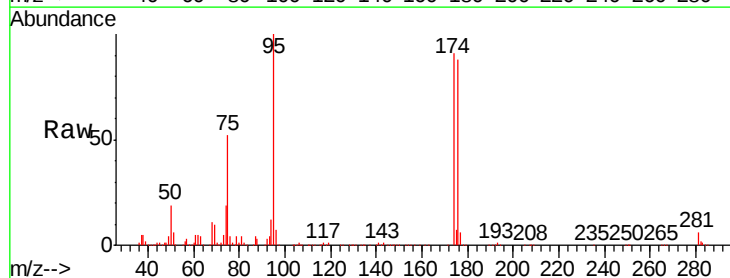
Tgt Ion: 95 Resp: 139467

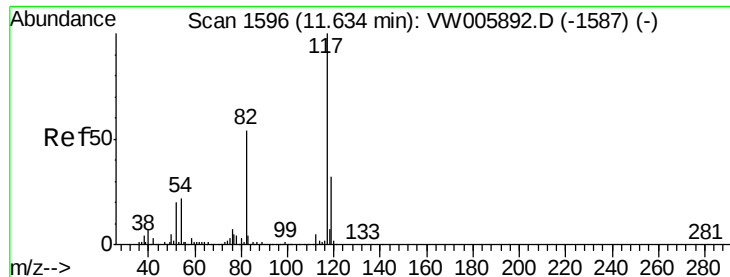
Ion Ratio Lower Upper

95 100

174 93.7 0.0 176.4

176 90.7 0.0 173.0

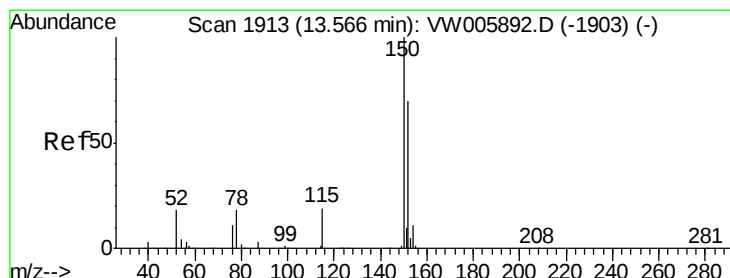
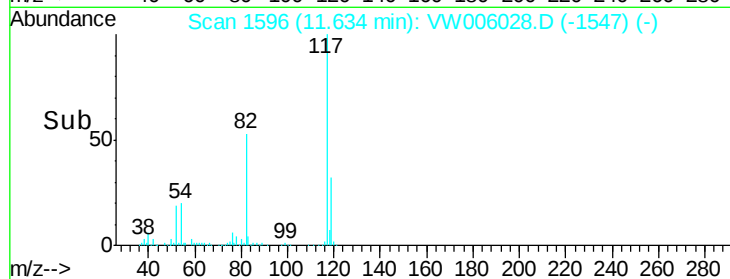
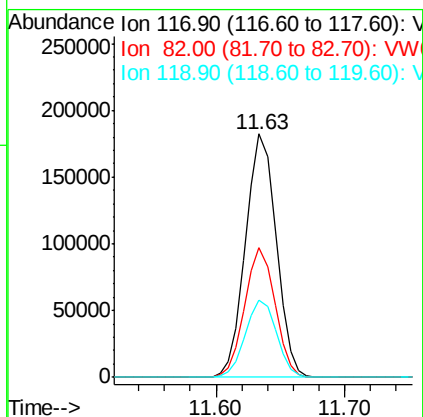
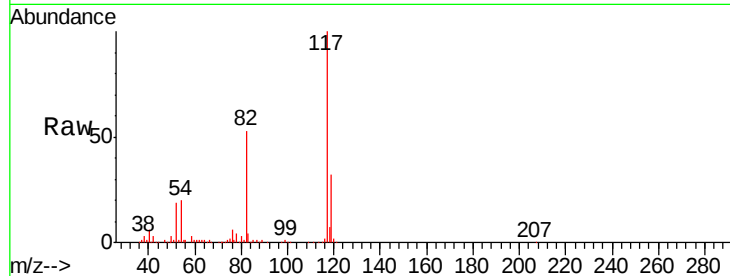




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW006028.D  
Acq: 11 Oct 2018 13:29

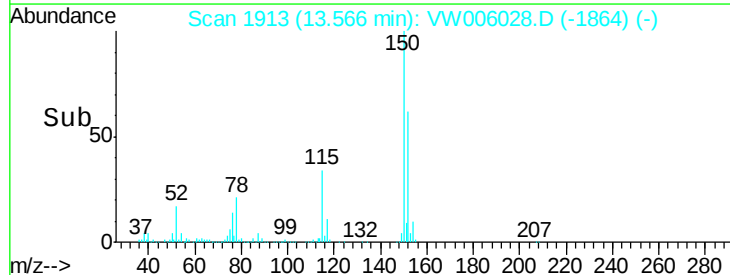
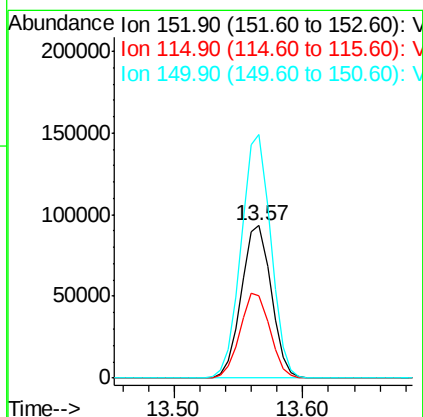
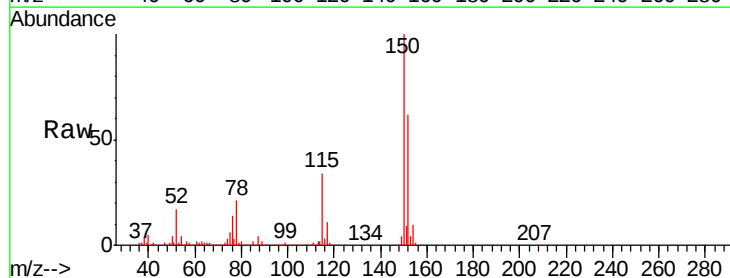
Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-GF-02-027-A

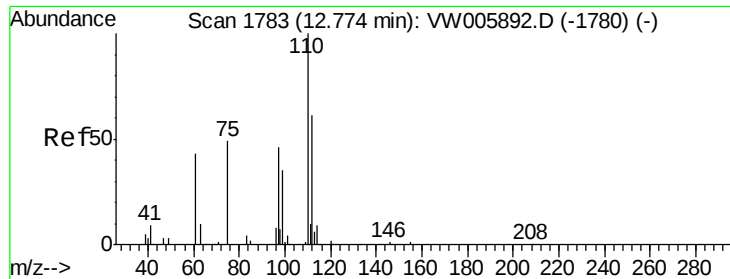
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.0  | 43.5  | 65.3  |
| 119     | 31.6  | 25.4  | 38.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.57 min Scan# 1913  
Delta R.T. -0.00 min  
Lab File: VW006028.D  
Acq: 11 Oct 2018 13:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.7  | 28.3  | 85.0  |
| 150     | 158.1 | 0.0   | 349.2 |





#76

1,2,3-Trichloropropane

Concen: 53.88 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006028.D

Acq: 11 Oct 2018 13:29

Instrument :

MSVOA\_W

ClientSampleId :

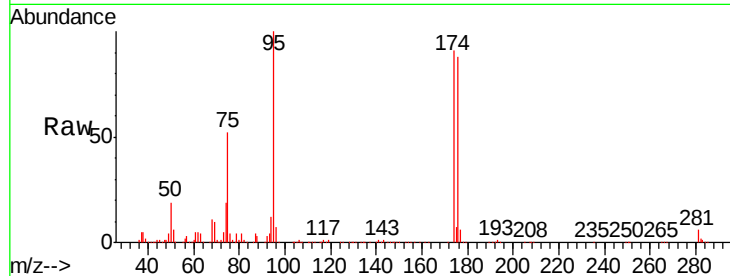
FK-GF-02-027-A

Tgt Ion: 75 Resp: 72028

Ion Ratio Lower Upper

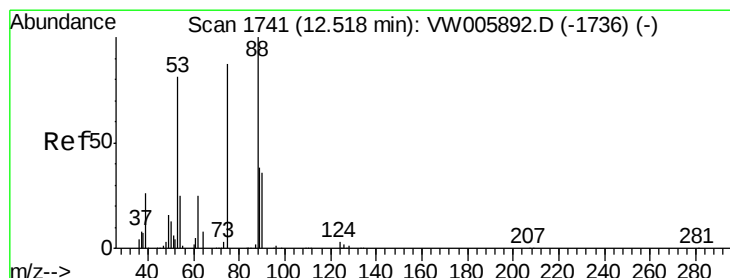
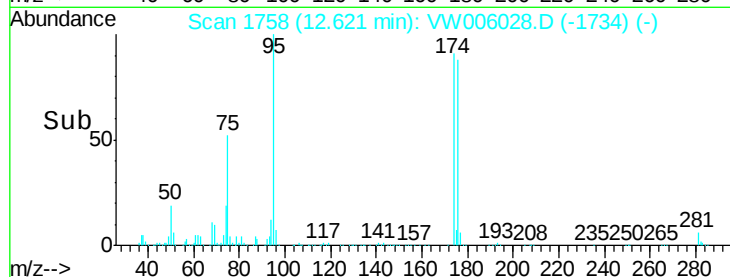
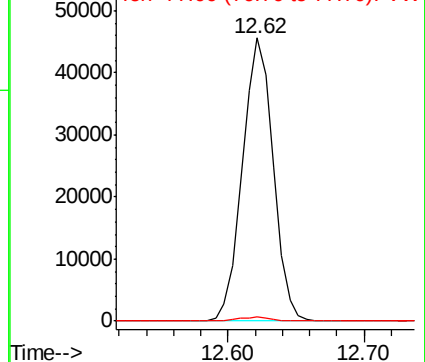
75 100

77 1.5 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: 113.75 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006028.D

Acq: 11 Oct 2018 13:29

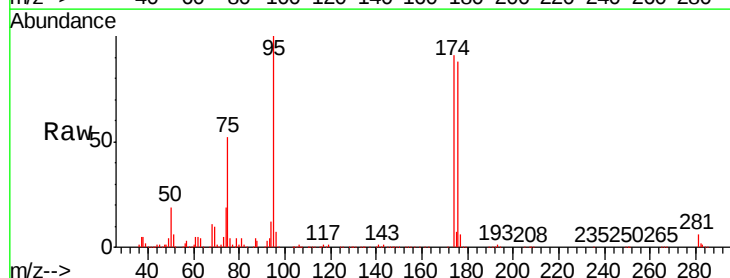
Tgt Ion: 75 Resp: 72028

Ion Ratio Lower Upper

75 100

53 0.0 76.5 114.7#

89 0.0 37.6 56.4#



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

