

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121718\  
 Data File : VF061041.D  
 Acq On : 17 Dec 2018 15:14  
 Operator : VA/AP  
 Sample : J6453-01  
 Misc : 6.43g/5mL/MSVOA-F/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SS-SOIL

Quant Time: Dec 18 03:32:54 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 27 01:36:26 2018  
 Response via : Initial Calibration

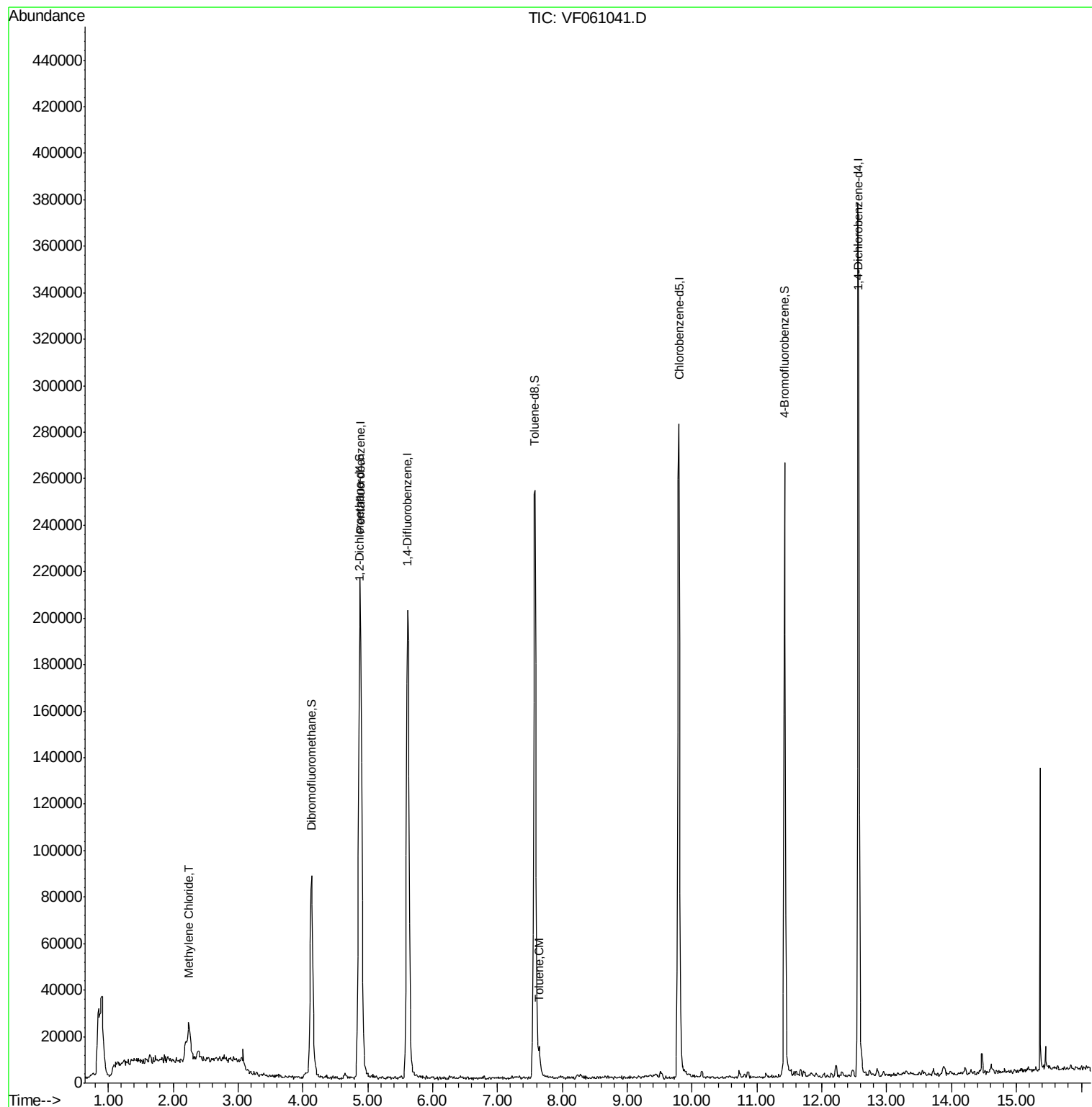
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 4.88  | 168  | 155790   | 50.00 | ug/l   | -0.03    |
| 34) 1,4-Difluorobenzene     | 5.61  | 114  | 226741   | 50.00 | ug/l   | -0.03    |
| 63) Chlorobenzene-d5        | 9.80  | 117  | 203663   | 50.00 | ug/l   | -0.02    |
| 72) 1,4-Dichlorobenzene-d4  | 12.57 | 152  | 95751    | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 4.86  | 65   | 75114    | 40.93 | ug/l   | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 81.86% |          |
| 35) Dibromofluoromethane    | 4.13  | 113  | 83575    | 46.46 | ug/l   | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 92.92% |          |
| 50) Toluene-d8              | 7.58  | 98   | 221967   | 41.89 | ug/l   | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 83.78% |          |
| 62) 4-Bromofluorobenzene    | 11.42 | 95   | 99807    | 41.44 | ug/l   | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 82.88% |          |
| Target Compounds            |       |      |          |       |        |          |
| 20) Methylene Chloride      | 2.25  | 84   | 11856    | 9.549 | ug/l   | 92       |
| 52) Toluene                 | 7.65  | 92   | 6184     | 1.585 | ug/l   | 87       |

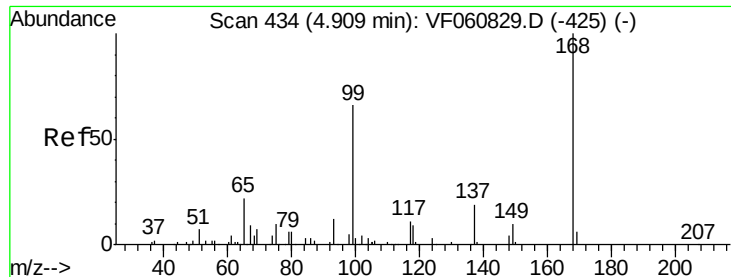
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_F  
ClientSampleId :  
SS-SOIL

Quant Time: Dec 18 03:32:54 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 27 01:36:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.03 min

Lab File: VF061041.D

Acq: 17 Dec 2018 15:14

Instrument :

MSVOA\_F

ClientSampleId :

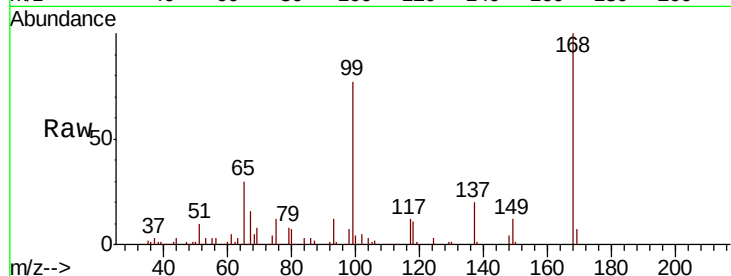
SS-SOIL

Tot Ion:168 Resp: 155790

Ion Ratio Lower Upper

168 100

99 76.9 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

60000

50000

40000

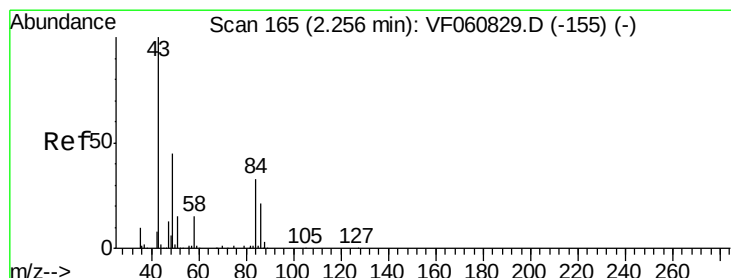
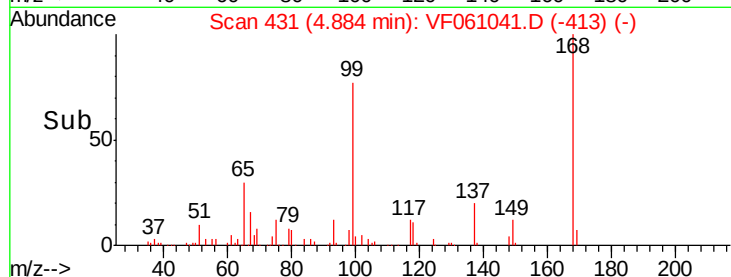
30000

20000

10000

0

Time-->



#20

Methylene Chloride

Concen: 9.549 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF061041.D

Acq: 17 Dec 2018 15:14

Tgt Ion: 84 Resp: 11856

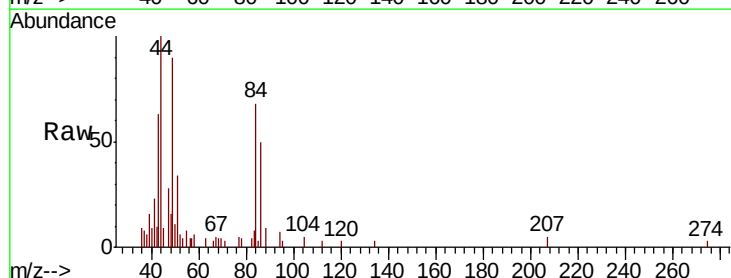
Ion Ratio Lower Upper

84 100

49 131.6 111.3 166.9

51 50.2 38.0 57.0

86 73.4 49.8 74.8



Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

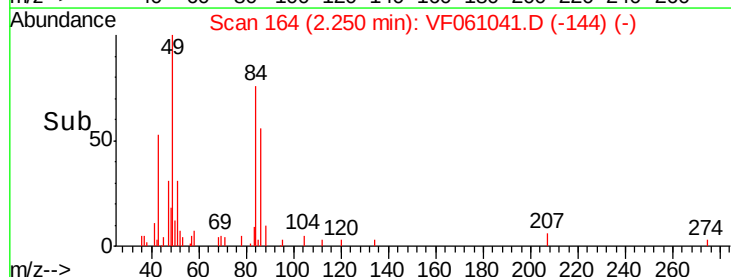
6000

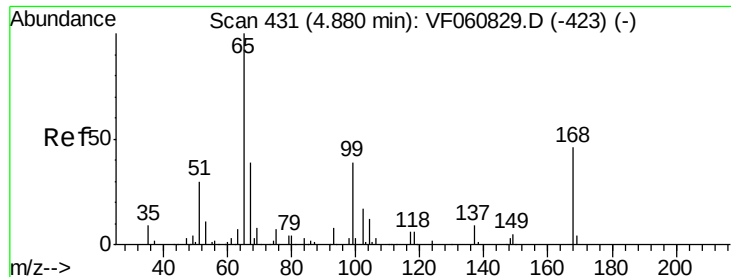
4000

2000

0

Time-->

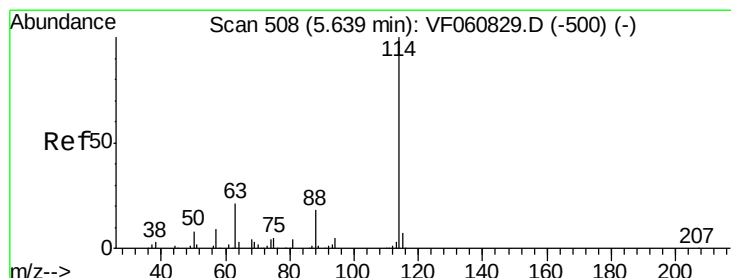
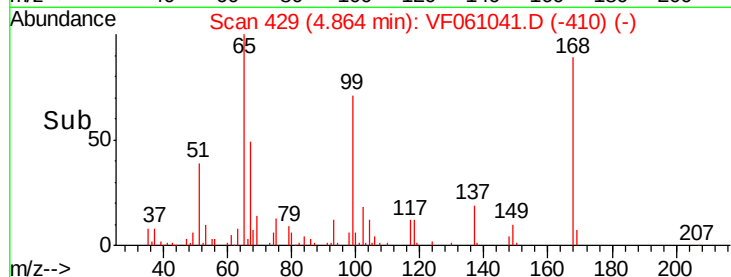
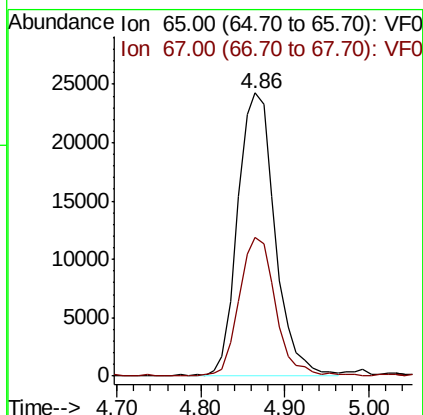
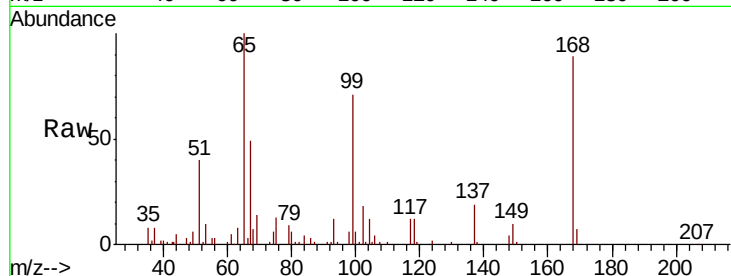




#33  
 1,2-Dichloroethane-d4  
 Concen: 40.928 ug/l  
 RT: 4.86 min Scan# 429  
 Delta R.T. -0.02 min  
 Lab File: VF061041.D  
 Acq: 17 Dec 2018 15:14

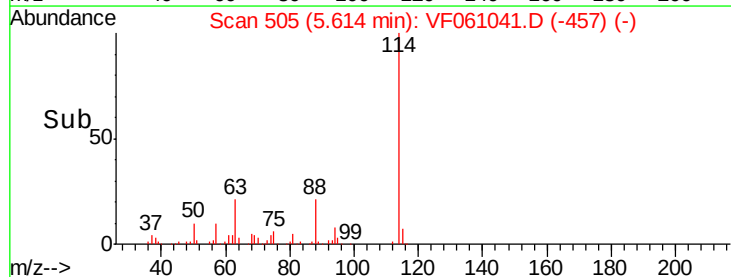
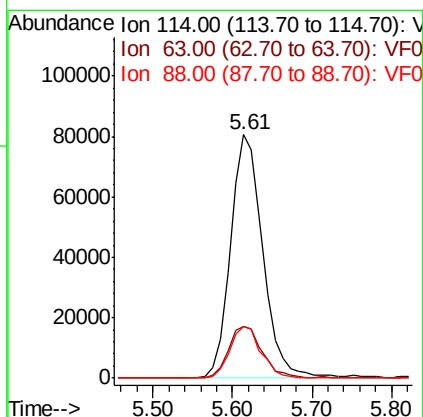
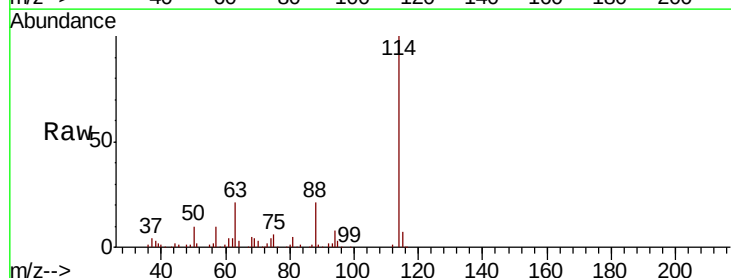
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 SS-SOIL

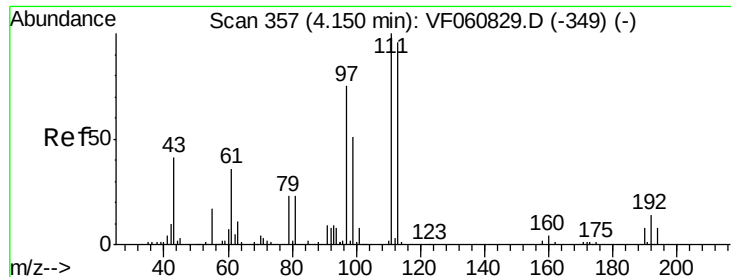
Tot Ion: 65 Resp: 75114  
 Ion Ratio Lower Upper  
 65 100  
 67 49.1 0.0 96.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.61 min Scan# 505  
 Delta R.T. -0.03 min  
 Lab File: VF061041.D  
 Acq: 17 Dec 2018 15:14

Tgt Ion: 114 Resp: 226741  
 Ion Ratio Lower Upper  
 114 100  
 63 21.2 0.0 41.6  
 88 21.1 0.0 36.6

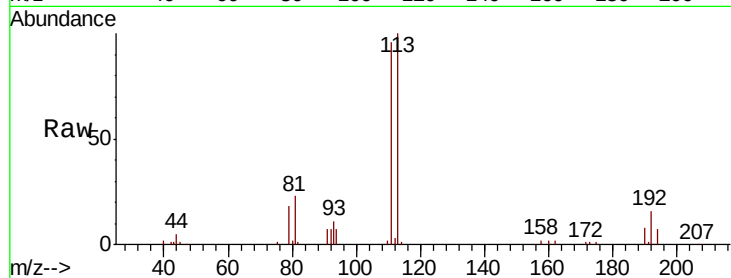




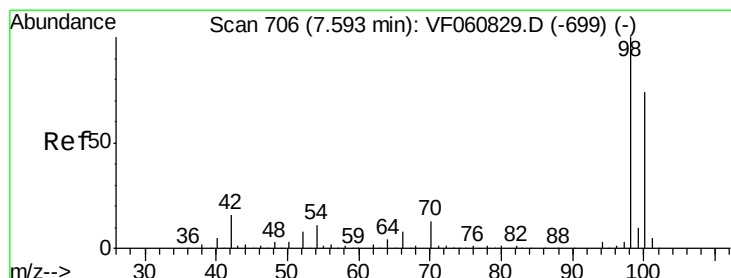
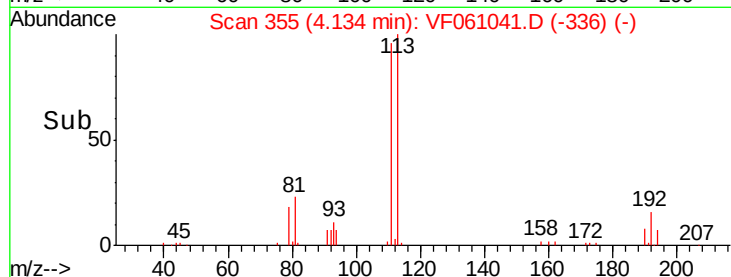
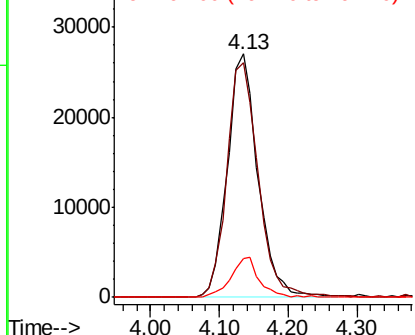
#35  
Dibromofluoromethane  
Concen: 46.462 ug/l  
RT: 4.13 min Scan# 355  
Delta R.T. -0.02 min  
Lab File: VF061041.D  
Acq: 17 Dec 2018 15:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
SS-SOIL

Tot Ion:113 Resp: 83575  
Ion Ratio Lower Upper  
113 100  
111 96.4 83.0 124.6  
192 15.8 12.3 18.5

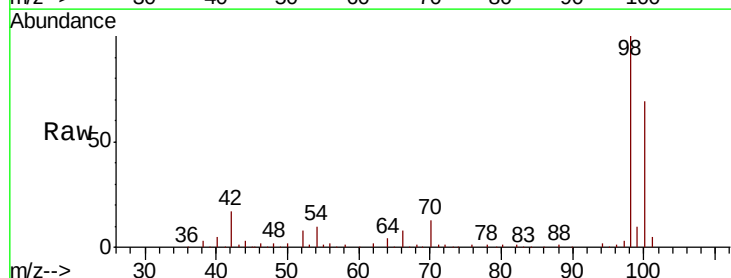


Abundance Ion 113.00 (112.70 to 113.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 192.00 (191.70 to 192.70): V

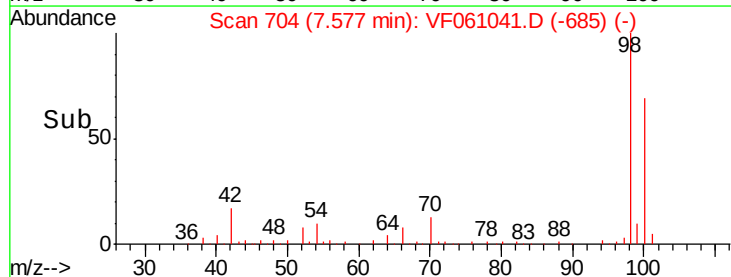
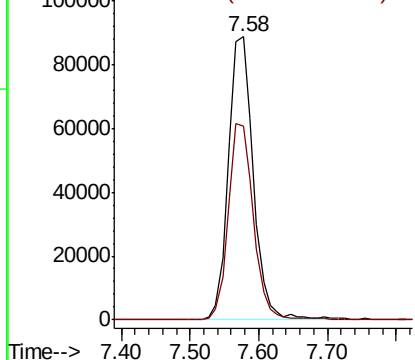


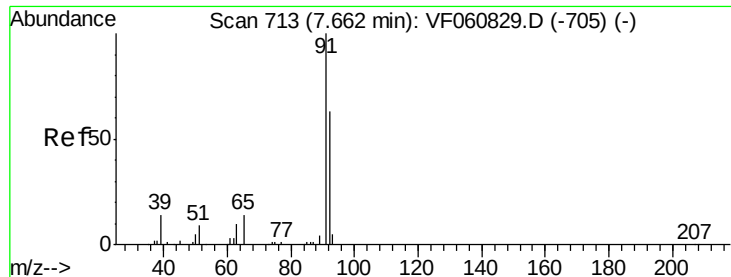
#50  
Toluene-d8  
Concen: 41.891 ug/l  
RT: 7.58 min Scan# 704  
Delta R.T. -0.02 min  
Lab File: VF061041.D  
Acq: 17 Dec 2018 15:14

Tgt Ion: 98 Resp: 221967  
Ion Ratio Lower Upper  
98 100  
100 68.7 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0  
Ion 100.00 (99.70 to 100.70): VF





#52

Toluene

Concen: 1.585 ug/l

RT: 7.65 min Scan# 711

Delta R.T. -0.02 min

Lab File: VF061041.D

Acq: 17 Dec 2018 15:14

Instrument :

MSVOA\_F

ClientSampleId :

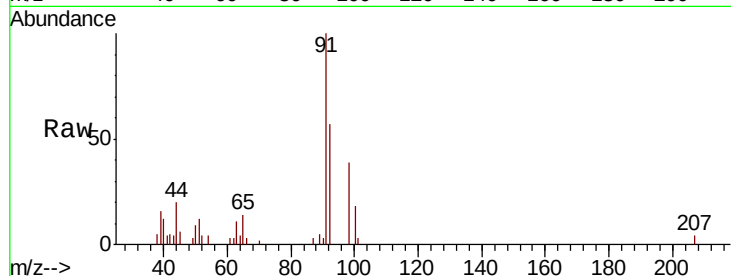
SS-SOIL

Tot Ion: 92 Resp: 6184

Ion Ratio Lower Upper

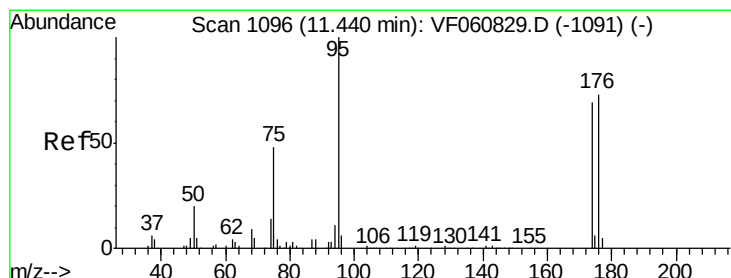
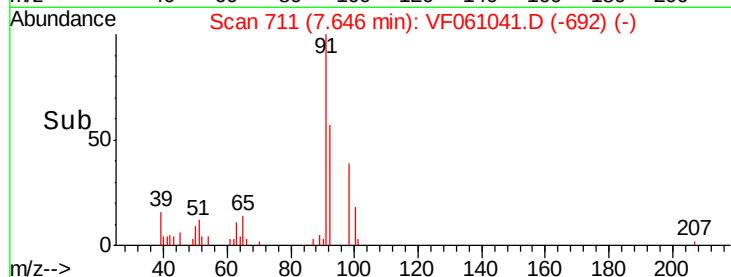
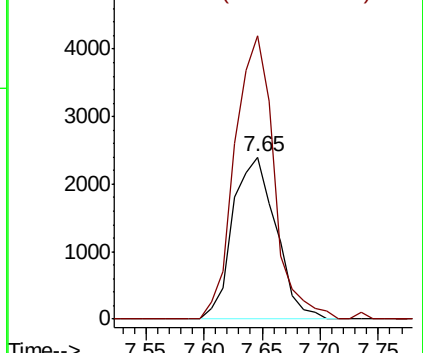
92 100

91 174.9 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#62

4-Bromofluorobenzene

Concen: 41.445 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.02 min

Lab File: VF061041.D

Acq: 17 Dec 2018 15:14

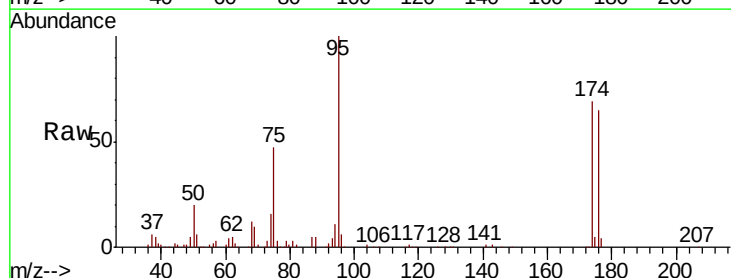
Tgt Ion: 95 Resp: 99807

Ion Ratio Lower Upper

95 100

174 68.5 0.0 138.2

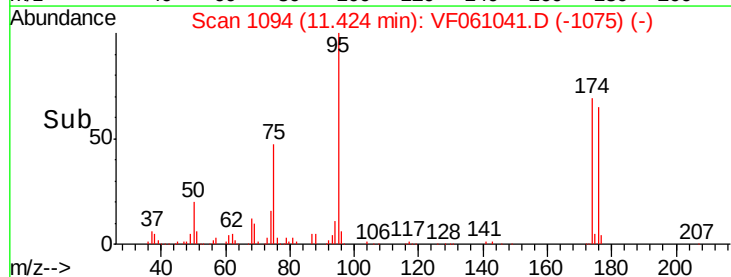
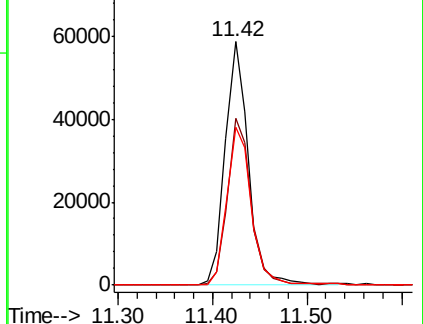
176 65.0 0.0 146.2

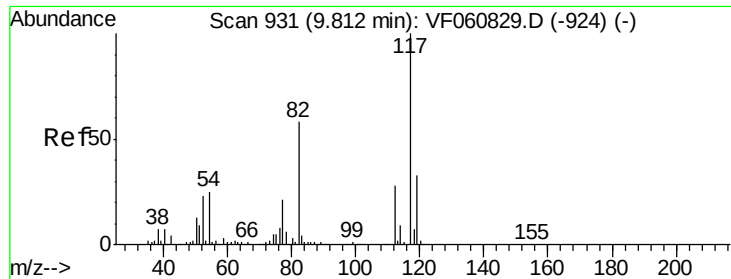


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

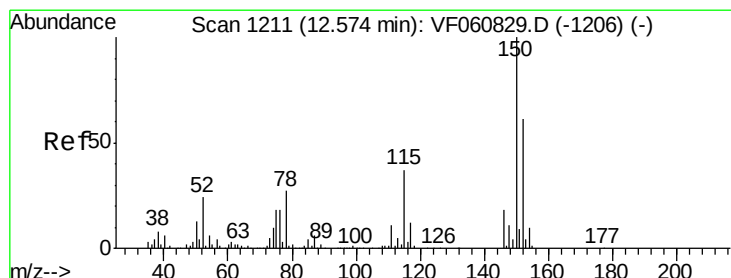
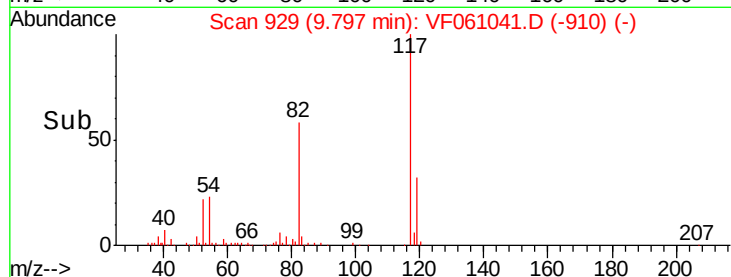
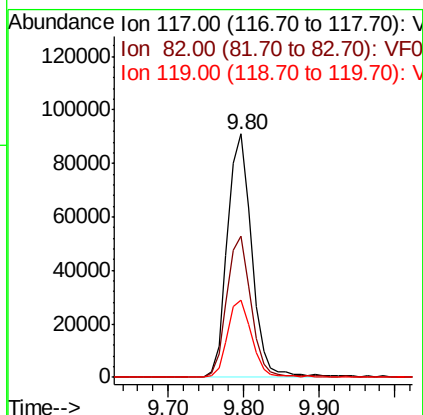
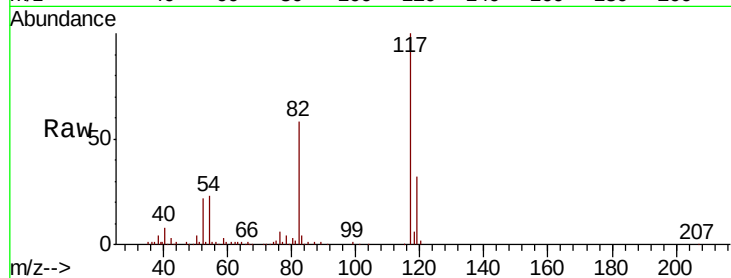




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.80 min Scan# 929  
Delta R.T. -0.02 min  
Lab File: VF061041.D  
Acq: 17 Dec 2018 15:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
SS-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.9  | 46.6  | 69.8  |
| 119     | 31.5  | 26.4  | 39.6  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.57 min Scan# 1210  
Delta R.T. -0.01 min  
Lab File: VF061041.D  
Acq: 17 Dec 2018 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.7  | 30.1  | 90.5  |
| 150     | 152.6 | 0.0   | 327.6 |

