

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070618\  
 Data File : VF059466.D  
 Acq On : 6 Jul 2018 22:52  
 Operator : VA/AP  
 Sample : J3855-05  
 Misc : 6.50u/5mL/MSVOA-F/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 S-12(7-7.5)

Quant Time: Jul 07 04:26:42 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F062518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 26 08:45:17 2018  
 Response via : Initial Calibration

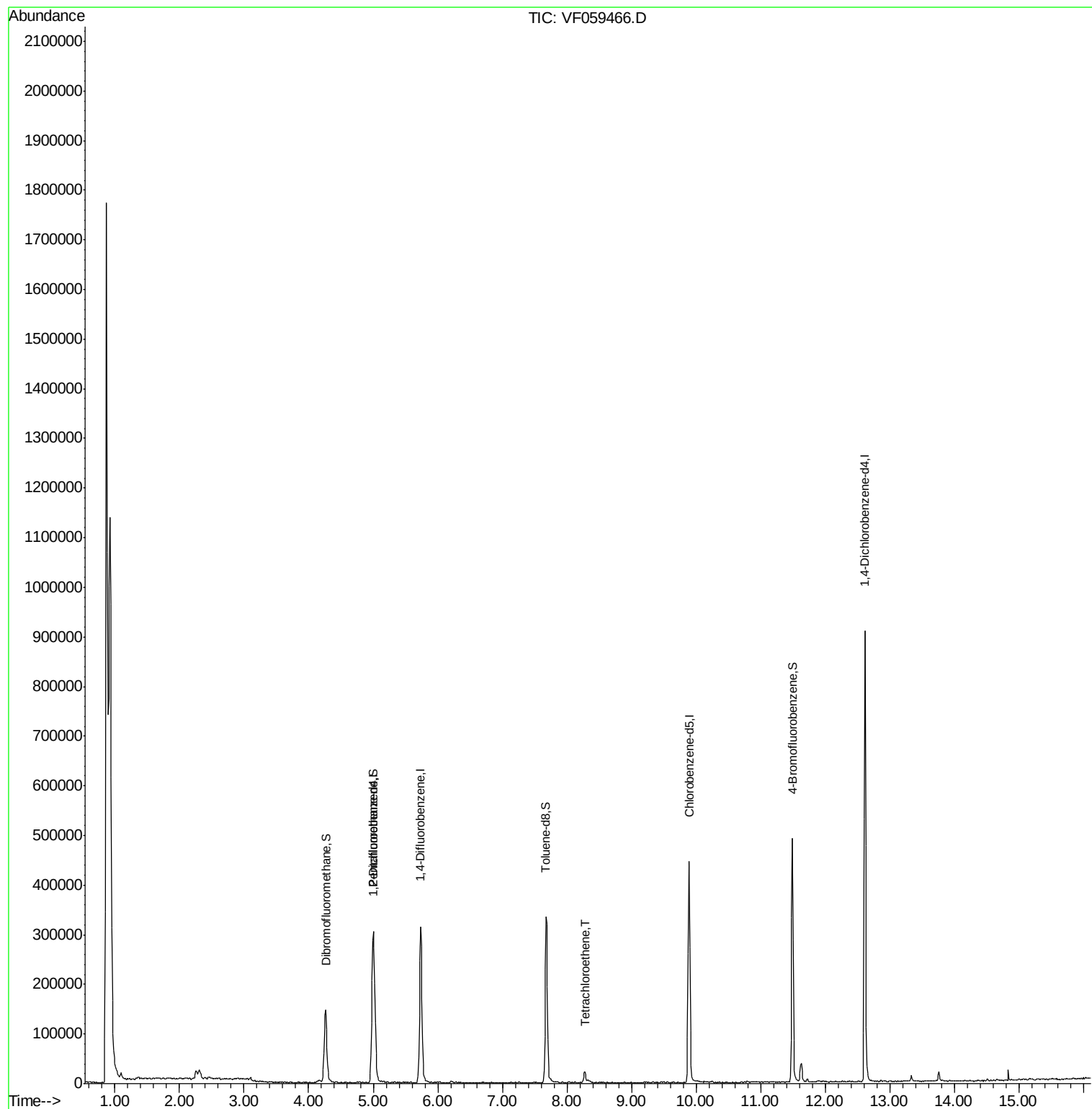
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 5.01  | 168  | 198156   | 50.00 | ug/l    | -0.01    |
| 34) 1,4-Difluorobenzene     | 5.73  | 114  | 297588   | 50.00 | ug/l    | -0.02    |
| 63) Chlorobenzene-d5        | 9.89  | 117  | 304887   | 50.00 | ug/l    | -0.01    |
| 72) 1,4-Dichlorobenzene-d4  | 12.61 | 152  | 209330   | 50.00 | ug/l    | -0.01    |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 4.98  | 65   | 149524   | 58.40 | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 116.80% |          |
| 35) Dibromofluoromethane    | 4.27  | 113  | 125891   | 57.90 | ug/l    | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 115.80% |          |
| 50) Toluene-d8              | 7.69  | 98   | 265928   | 49.40 | ug/l    | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.80%  |          |
| 62) 4-Bromofluorobenzene    | 11.49 | 95   | 157116   | 51.74 | ug/l    | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.48% |          |
| Target Compounds            |       |      |          |       |         |          |
| 64) Tetrachloroethene       | 8.28  | 164  | 6698     | 3.39  | ug/l    | # 88     |

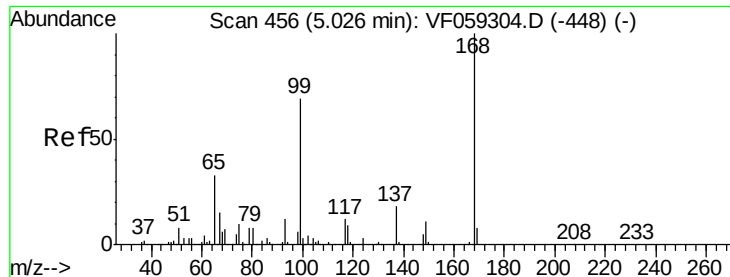
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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S-12(7-7.5)

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Quant Title : SW846 8260  
QLast Update : Tue Jun 26 08:45:17 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.01 min Scan# 455

Delta R.T. -0.01 min

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Instrument :

MSVOA\_F

ClientSampleId :

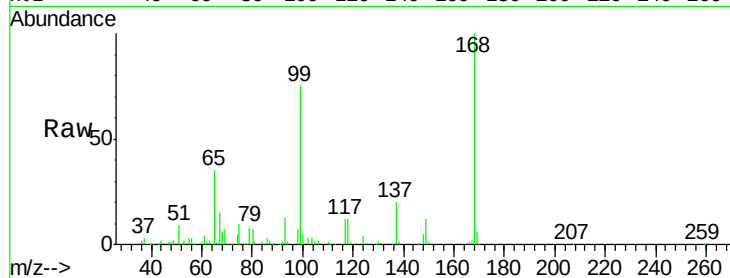
S-12(7-7.5)

Tot Ion:168 Resp: 198156

Ion Ratio Lower Upper

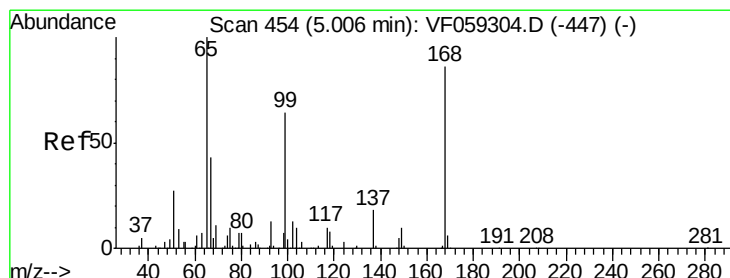
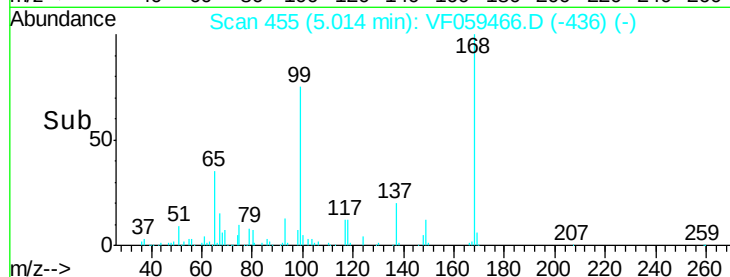
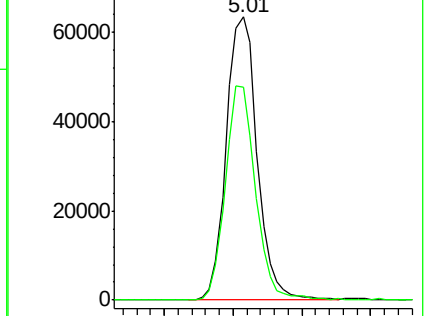
168 100

99 75.3 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 58.40 ug/l

RT: 4.98 min Scan# 452

Delta R.T. -0.02 min

Lab File: VF059466.D

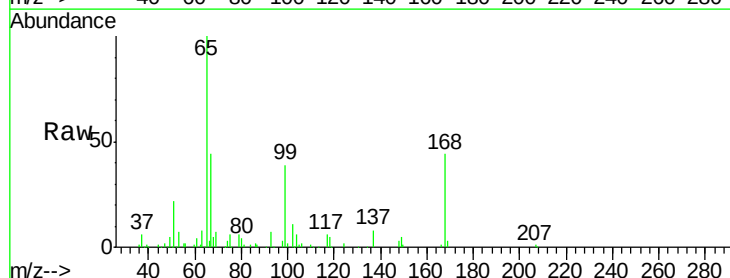
Acq: 6 Jul 2018 22:52

Tgt Ion: 65 Resp: 149524

Ion Ratio Lower Upper

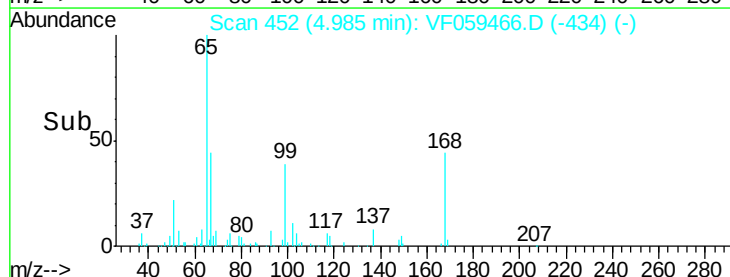
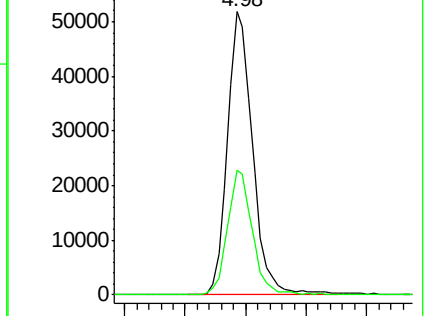
65 100

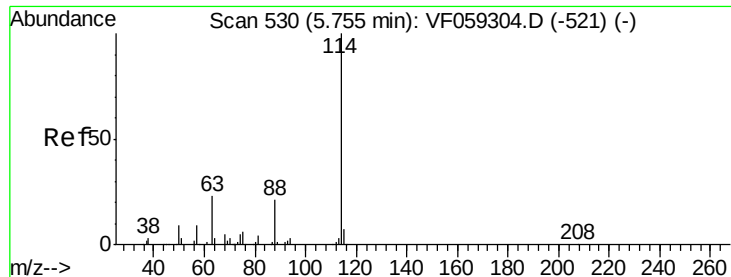
67 43.9 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

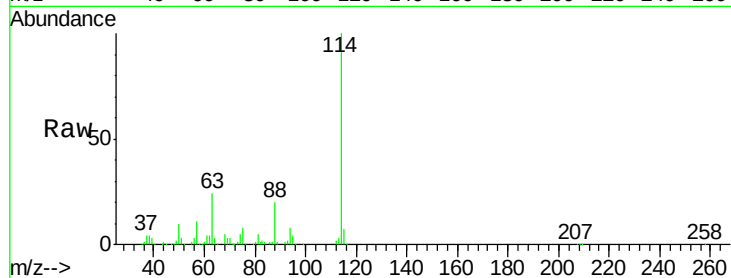




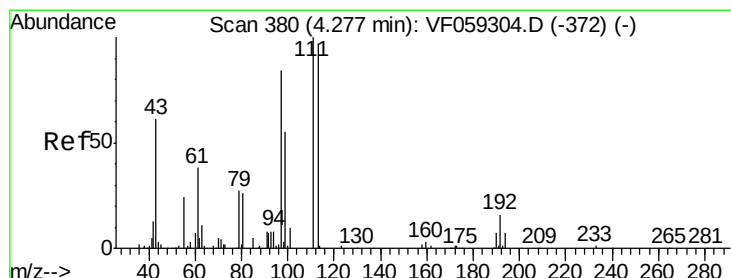
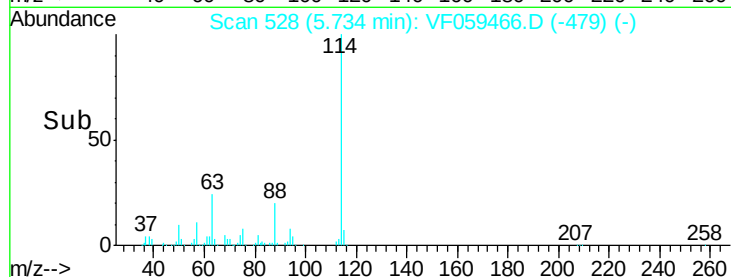
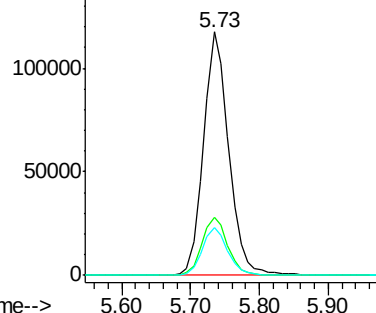
#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 5.73 min Scan# 528  
Delta R.T. -0.02 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

Instrument :  
MSVOA\_F  
ClientSampleId :  
S-12(7-7.5)

Tot Ion:114 Resp: 297588  
Ion Ratio Lower Upper  
114 100  
63 23.7 0.0 45.8  
88 19.7 0.0 41.2

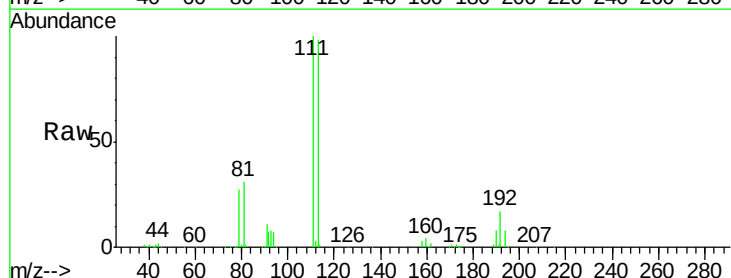


Abundance Ion 114.00 (113.70 to 114.70): V  
Ion 63.00 (62.70 to 63.70): VF0  
Ion 88.00 (87.70 to 88.70): VF0

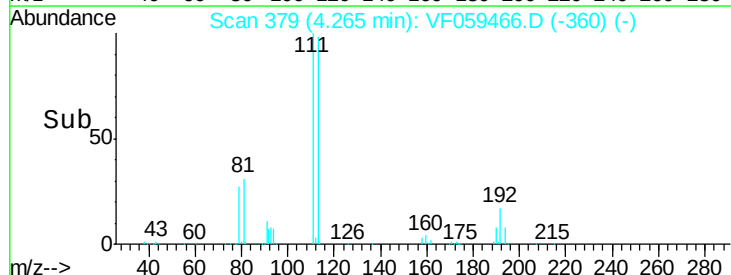
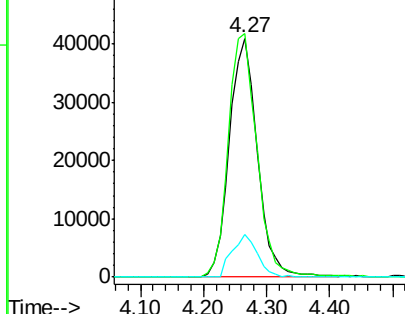


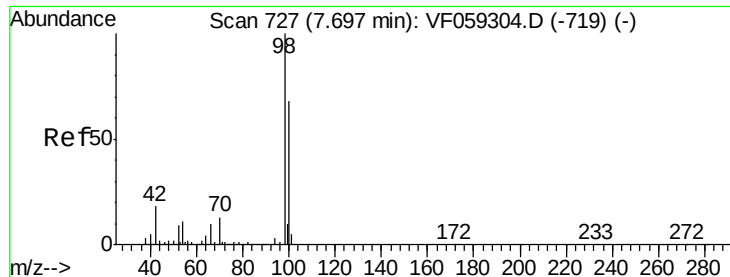
#35  
Dibromofluoromethane  
Concen: 57.90 ug/l  
RT: 4.27 min Scan# 379  
Delta R.T. -0.01 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

Tgt Ion:113 Resp: 125891  
Ion Ratio Lower Upper  
113 100  
111 102.0 82.1 123.1  
192 17.7 13.0 19.6



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

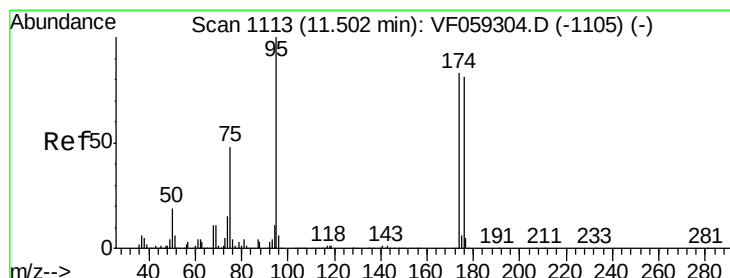
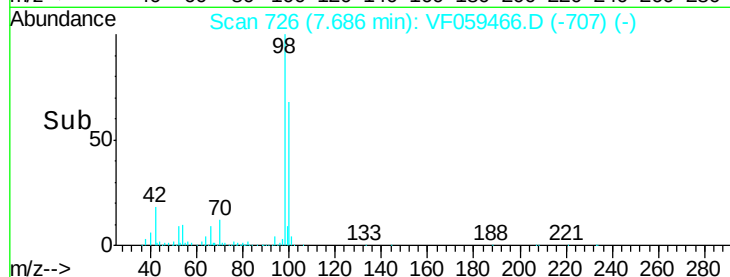
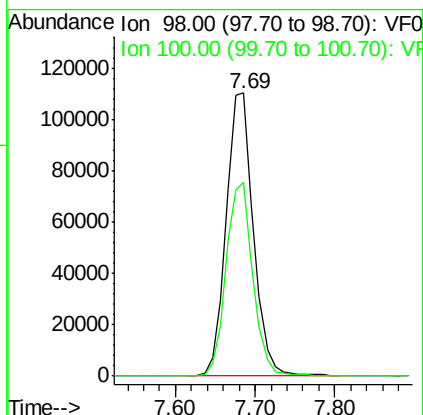
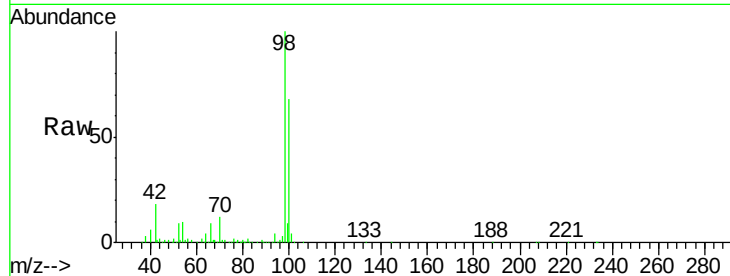




#50  
Toluene-d8  
Concen: 49.40 ug/l  
RT: 7.69 min Scan# 726  
Delta R.T. -0.01 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

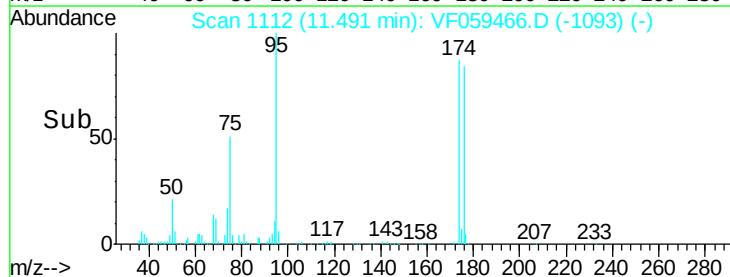
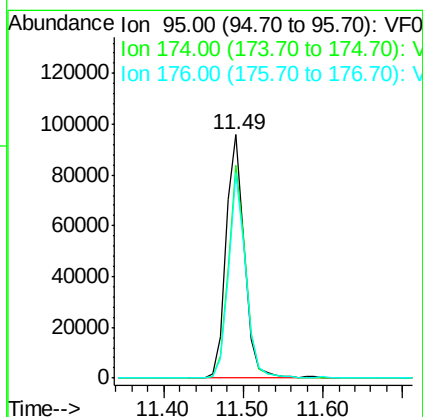
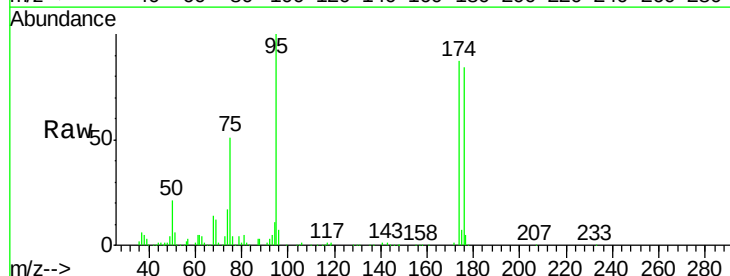
Instrument :  
MSVOA\_F  
ClientSampleId :  
S-12(7-7.5)

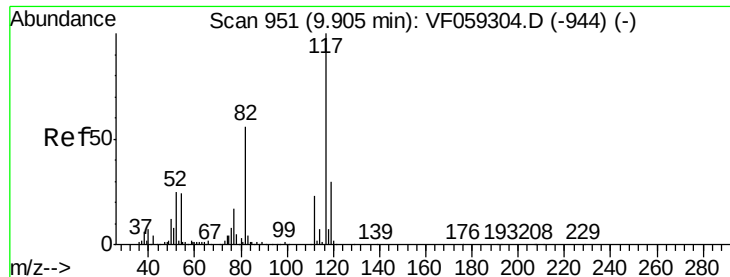
Tot Ion: 98 Resp: 265928  
Ion Ratio Lower Upper  
98 100  
100 68.3 54.6 82.0



#62  
4-Bromofluorobenzene  
Concen: 51.74 ug/l  
RT: 11.49 min Scan# 1112  
Delta R.T. -0.01 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

Tgt Ion: 95 Resp: 157116  
Ion Ratio Lower Upper  
95 100  
174 87.2 0.0 165.2  
176 84.4 0.0 161.0

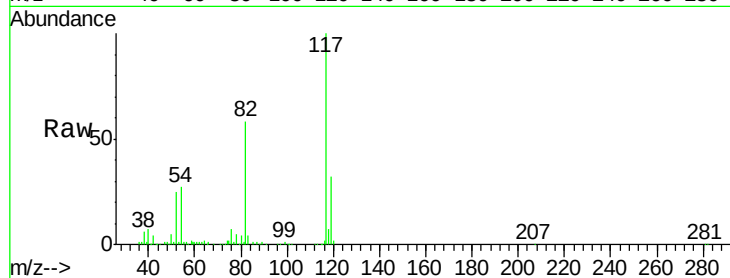




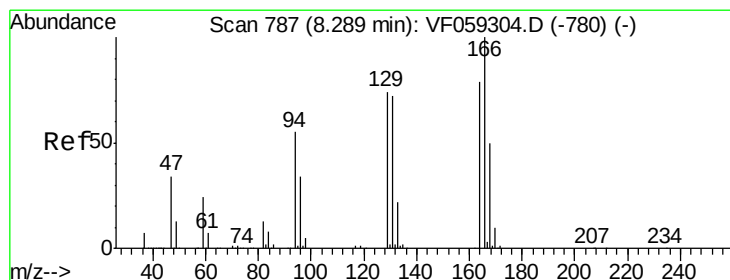
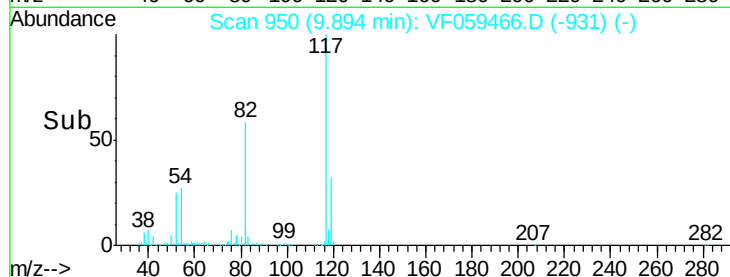
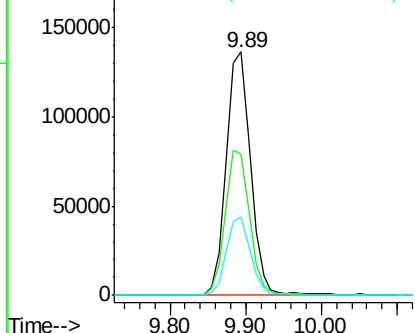
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.89 min Scan# 950  
Delta R.T. -0.01 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

Instrument :  
MSVOA\_F  
ClientSampleId :  
S-12(7-7.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.9  | 44.6  | 66.8  |
| 119     | 32.0  | 24.1  | 36.1  |

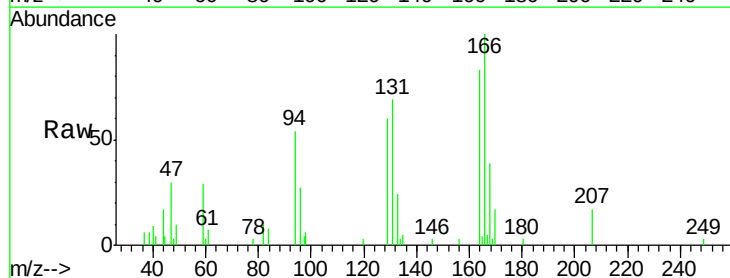


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 119.00 (118.70 to 119.70): V

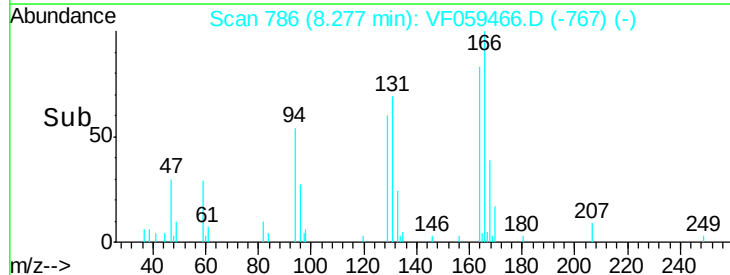
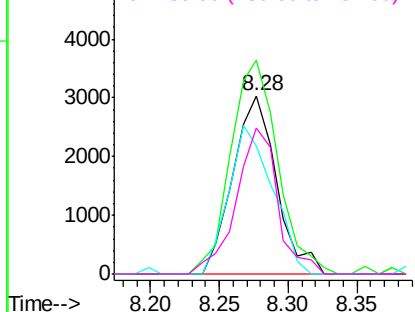


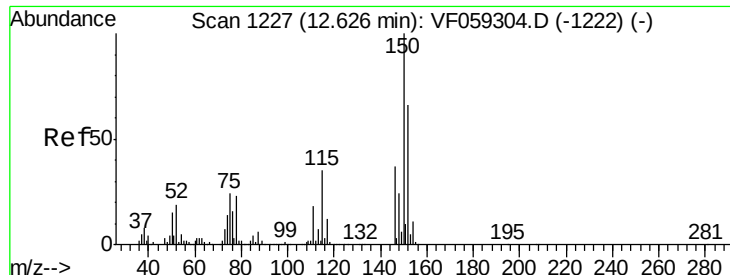
#64  
Tetrachloroethene  
Concen: 3.39 ug/l  
RT: 8.28 min Scan# 786  
Delta R.T. -0.01 min  
Lab File: VF059466.D  
Acq: 6 Jul 2018 22:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 120.0 | 101.1 | 151.7 |
| 129     | 71.8  | 75.0  | 112.4 |
| 131     | 82.4  | 73.3  | 109.9 |



Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.90 (128.60 to 129.60): V  
Ion 130.90 (130.60 to 131.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.61 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF059466.D

Acq: 6 Jul 2018 22:52

Instrument :

MSVOA\_F

ClientSampleId :

S-12(7-7.5)

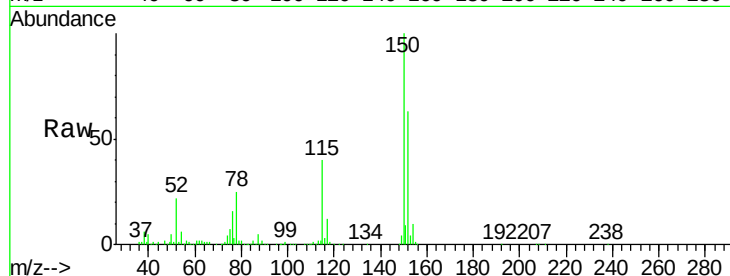
Tot Ion:152 Resp: 209330

Ion Ratio Lower Upper

152 100

115 62.6 27.1 81.3

150 157.5 0.0 305.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

