

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072518\  
 Data File : VF059657.D  
 Acq On : 25 Jul 2018 14:48  
 Operator : VA/AP  
 Sample : VF0725SBL01  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 82 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0725SBL01

Quant Time: Jul 25 16:17:21 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F072418S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 25 02:29:31 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.04  | 168  | 253027   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 5.76  | 114  | 352072   | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 297601   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 188393   | 50.00 | ug/l  | 0.01     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 5.03   | 65  | 142305   | 40.36 | ug/l    | 0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 80.72%  |      |
| 35) Dibromofluoromethane    | 4.30   | 113 | 156156   | 49.28 | ug/l    | 0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.56%  |      |
| 50) Toluene-d8              | 7.71   | 98  | 388584   | 50.32 | ug/l    | 0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.64% |      |
| 62) 4-Bromofluorobenzene    | 11.51  | 95  | 185042   | 46.63 | ug/l    | 0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.26%  |      |

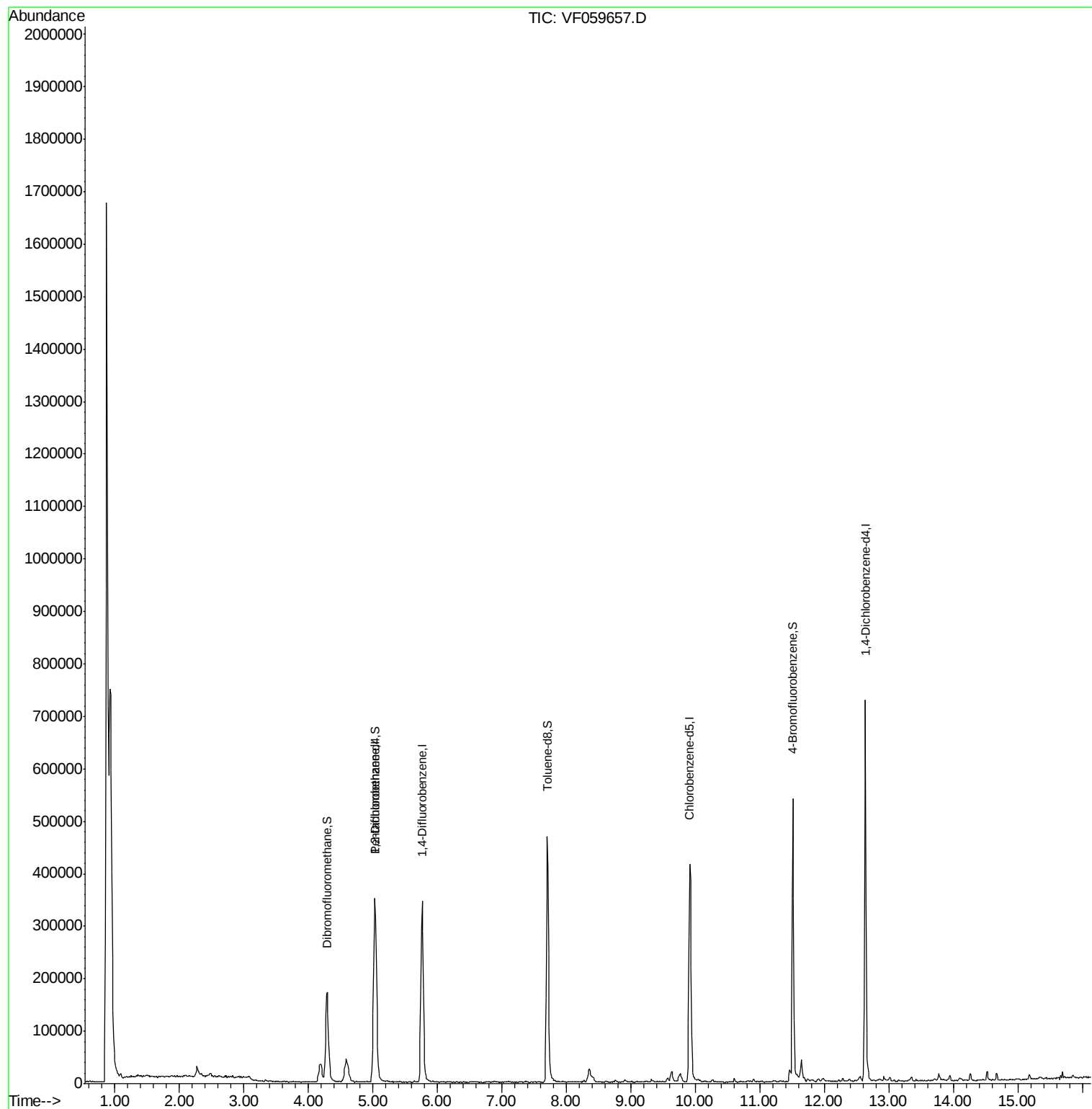
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

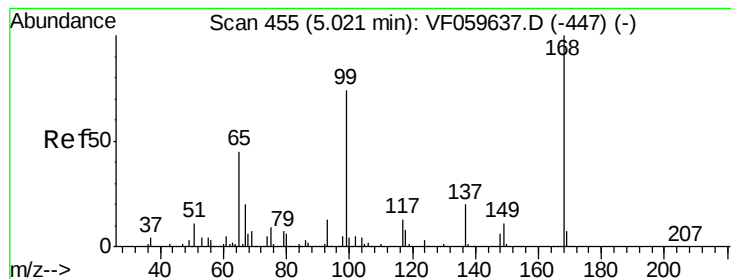
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Jul 25 02:29:31 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF059657.D

Acq: 25 Jul 2018 14:48

Instrument :

MSVOA\_F

ClientSampleId :

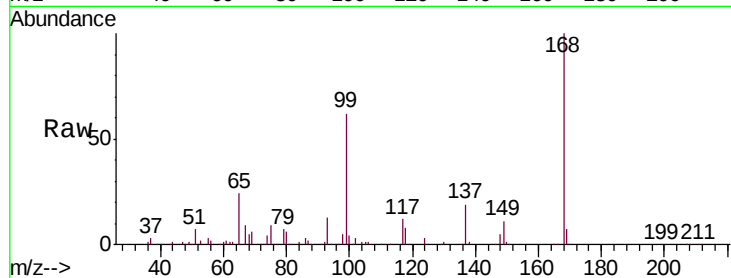
VF0725SBL01

Tot Ion:168 Resp: 253027

Ion Ratio Lower Upper

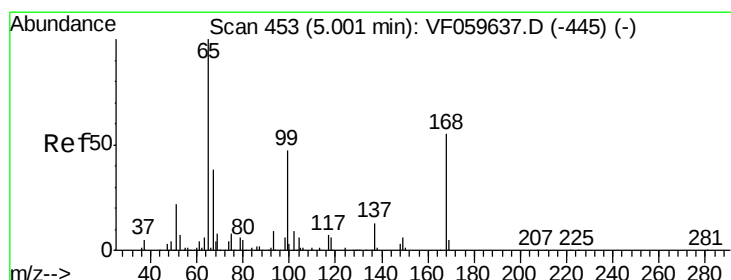
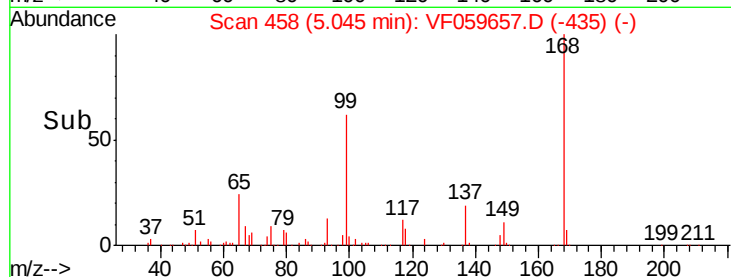
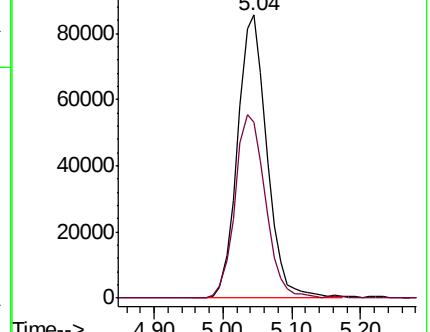
168 100

99 62.3 59.5 89.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 40.36 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.02 min

Lab File: VF059657.D

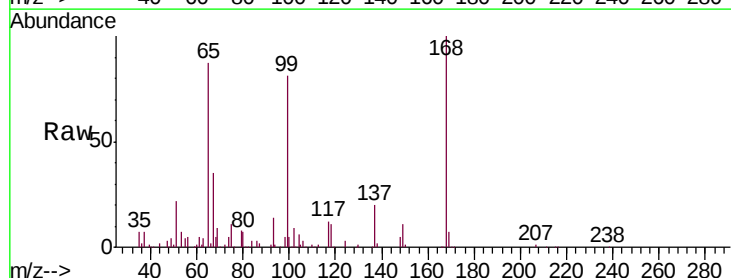
Acq: 25 Jul 2018 14:48

Tgt Ion: 65 Resp: 142305

Ion Ratio Lower Upper

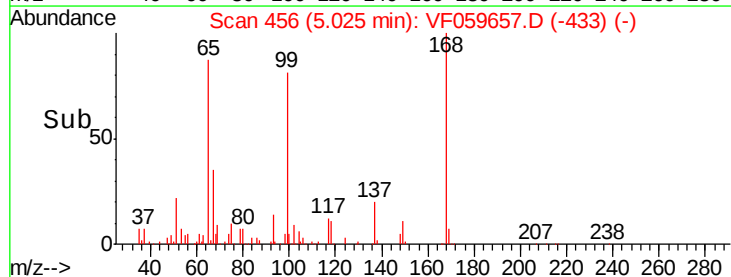
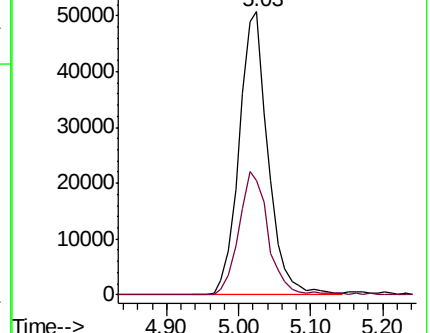
65 100

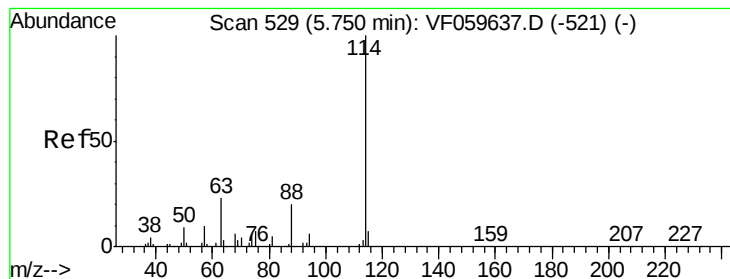
67 40.6 0.0 86.6



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: 5.76 min Scan# 531

Delta R.T. 0.01 min

Lab File: VF059657.D

Acq: 25 Jul 2018 14:48

Instrument :

MSVOA\_F

ClientSampleId :

VF0725SBL01

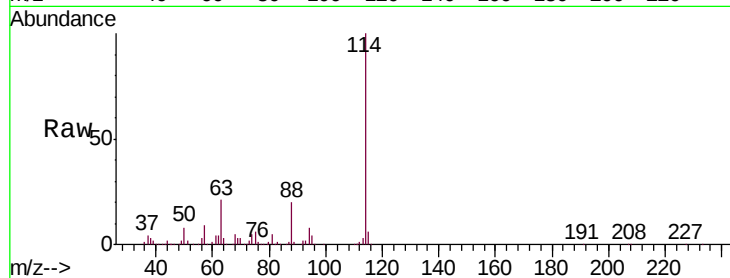
Tot Ion:114 Resp: 352072

Ion Ratio Lower Upper

114 100

63 21.5 0.0 45.6

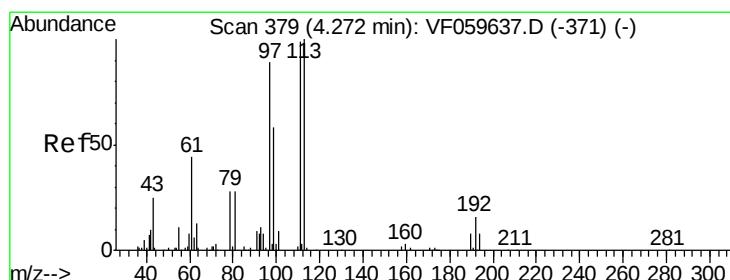
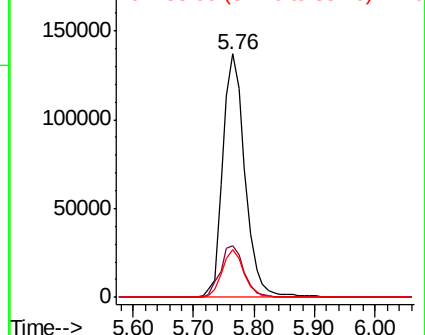
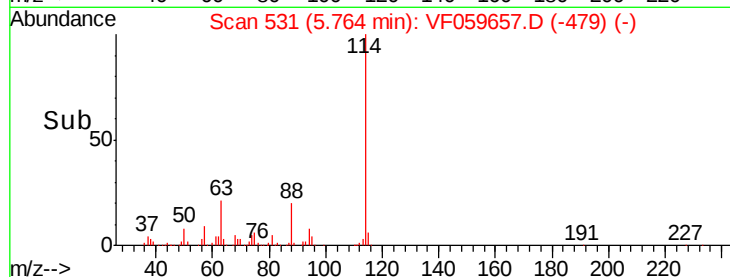
88 19.7 0.0 40.8



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: 49.28 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.02 min

Lab File: VF059657.D

Acq: 25 Jul 2018 14:48

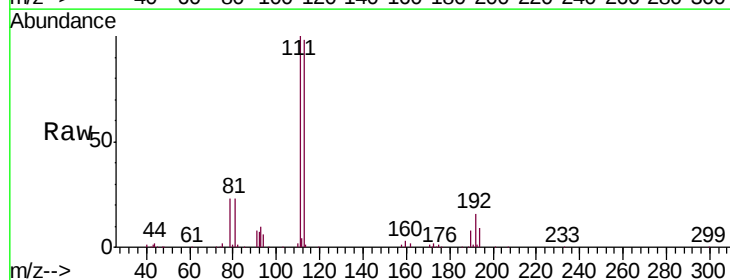
Tgt Ion:113 Resp: 156156

Ion Ratio Lower Upper

113 100

111 101.2 79.3 118.9

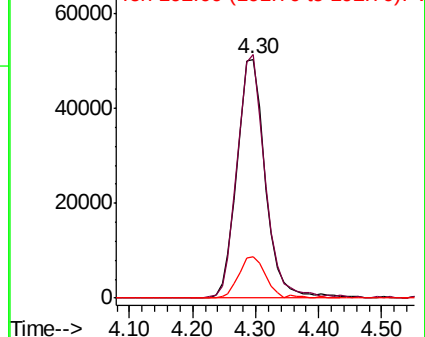
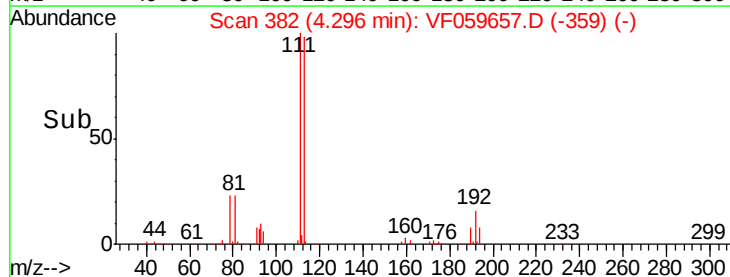
192 17.2 13.4 20.2

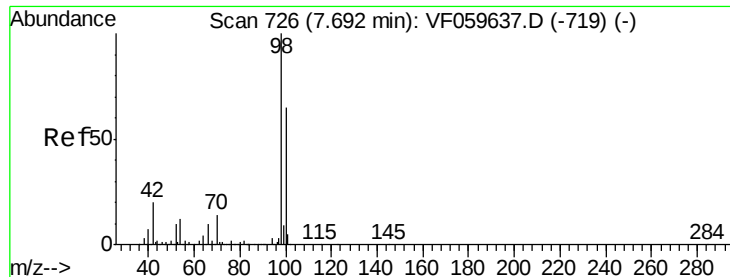


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 50.32 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF059657.D

Acq: 25 Jul 2018 14:48

Instrument :

MSVOA\_F

ClientSampleId :

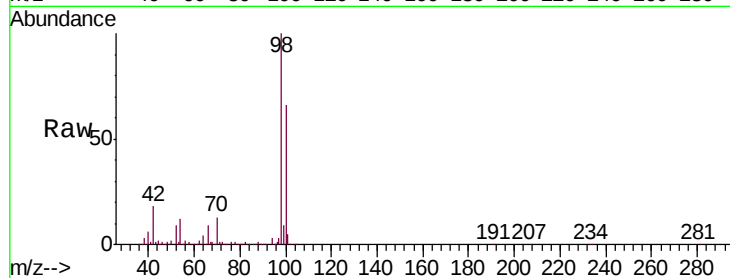
VF0725SBL01

Tot Ion: 98 Resp: 388584

Ion Ratio Lower Upper

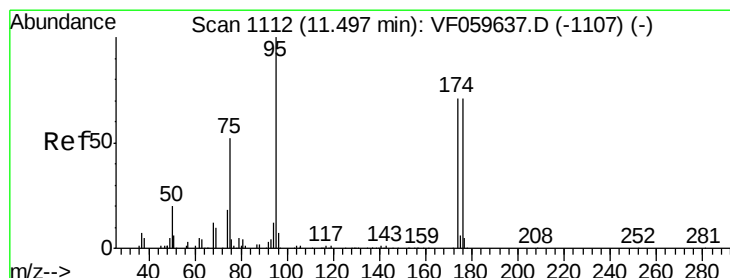
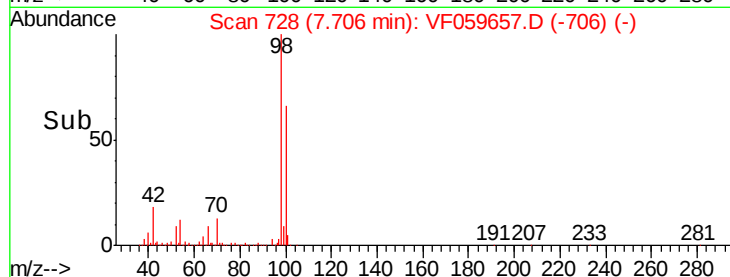
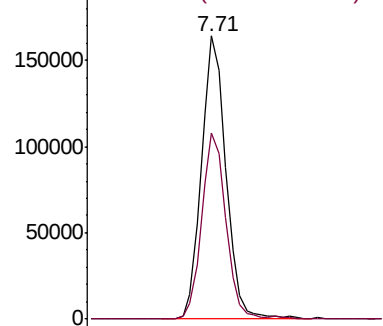
98 100

100 65.5 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#62

4-Bromofluorobenzene

Concen: 46.63 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF059657.D

Acq: 25 Jul 2018 14:48

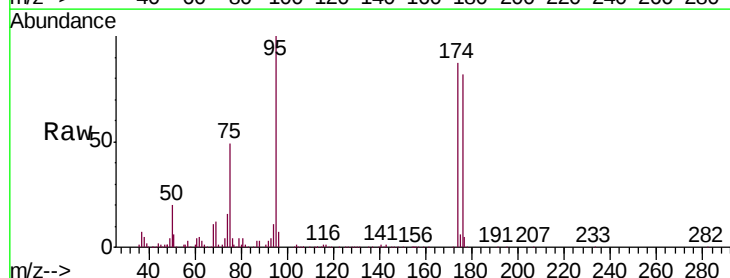
Tgt Ion: 95 Resp: 185042

Ion Ratio Lower Upper

95 100

174 87.0 0.0 141.8

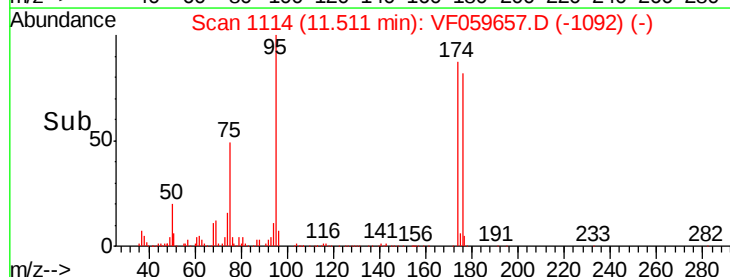
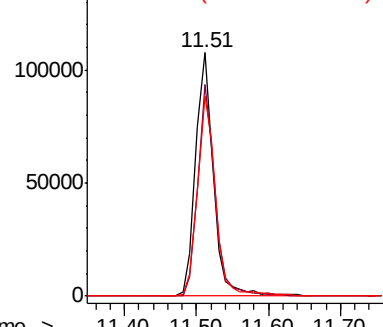
176 82.3 0.0 142.0

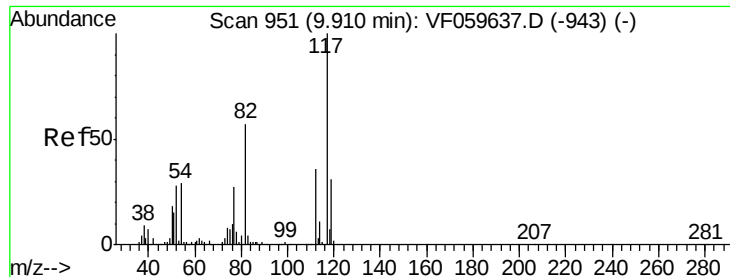


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

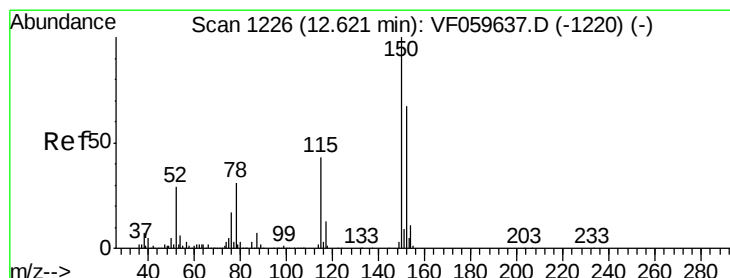
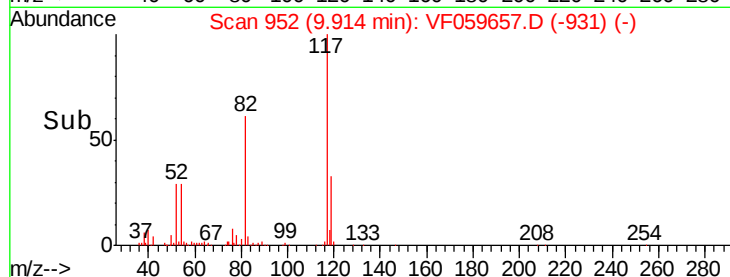
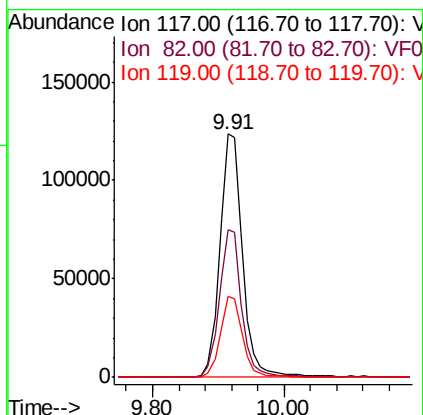
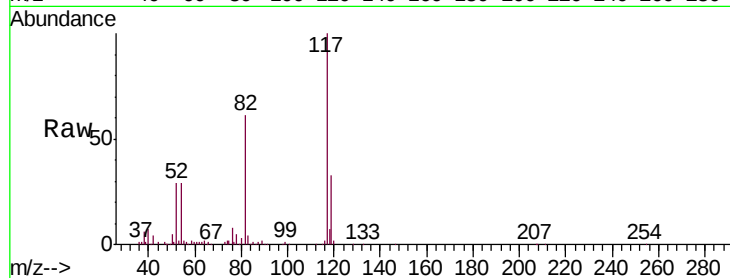




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.91 min Scan# 952  
Delta R.T. 0.00 min  
Lab File: VF059657.D  
Acq: 25 Jul 2018 14:48

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0725SBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 60.6  | 45.9  | 68.9  |
| 119     | 33.2  | 25.1  | 37.7  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.63 min Scan# 1228  
Delta R.T. 0.01 min  
Lab File: VF059657.D  
Acq: 25 Jul 2018 14:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.4  | 32.0  | 96.2  |
| 150     | 154.6 | 0.0   | 313.2 |

