

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092118\  
 Data File : VF060318.D  
 Acq On : 21 Sep 2018 17:56  
 Operator : VA/AP  
 Sample : J4777-11  
 Misc : 6.82/5mL/MSVOA F/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 PL-02-0920-18-A

Quant Time: Sep 24 14:52:04 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F091918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 20 02:58:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.03  | 168  | 202073   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.75  | 114  | 345923   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 281883   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 131132   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 5.01   | 65  | 143760   | 52.83 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.66% |      |
| 35) Dibromofluoromethane    | 4.28   | 113 | 144717   | 46.93 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.86%  |      |
| 50) Toluene-d8              | 7.70   | 98  | 282716   | 35.21 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 70.42%  |      |
| 62) 4-Bromofluorobenzene    | 11.51  | 95  | 127973   | 36.87 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 73.74%  |      |

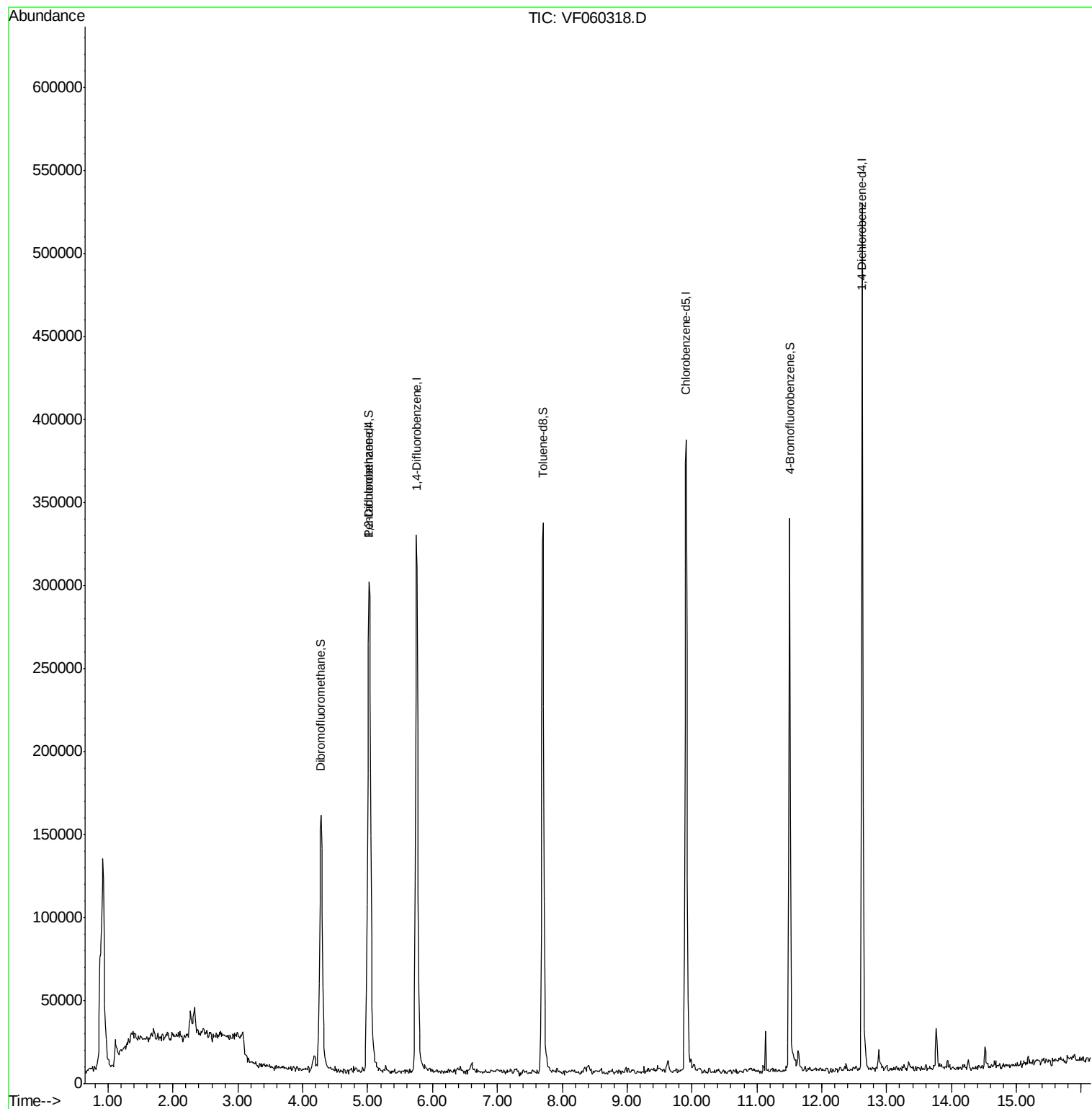
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

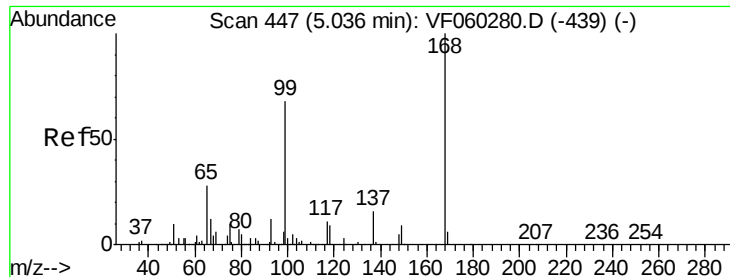
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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PL-02-0920-18-A

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Quant Title : SW846 8260  
QLast Update : Thu Sep 20 02:58:42 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.00 min

Lab File: VF060318.D

Acq: 21 Sep 2018 17:56

Instrument :

MSVOA\_F

ClientSampleId :

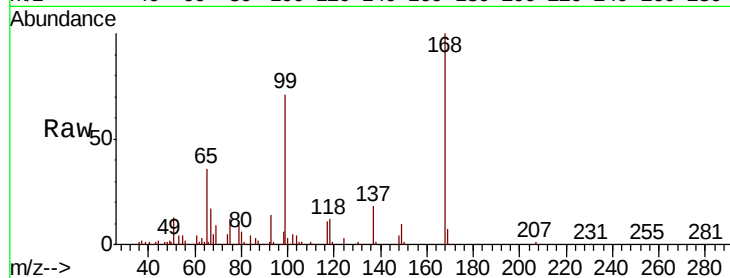
PL-02-0920-18-A

Tot Ion:168 Resp: 202073

Ion Ratio Lower Upper

168 100

99 70.5 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

60000

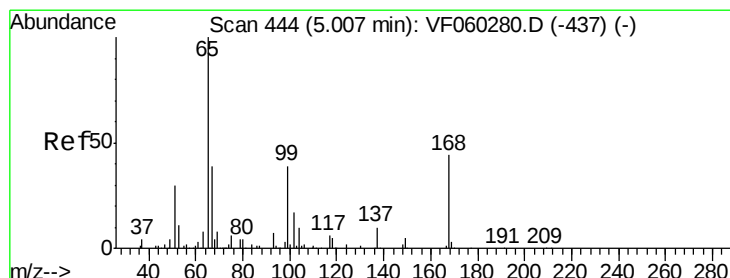
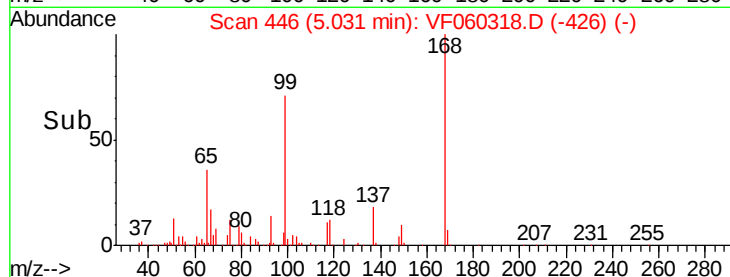
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#33

1,2-Dichloroethane-d4

Concen: 52.834 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.01 min

Lab File: VF060318.D

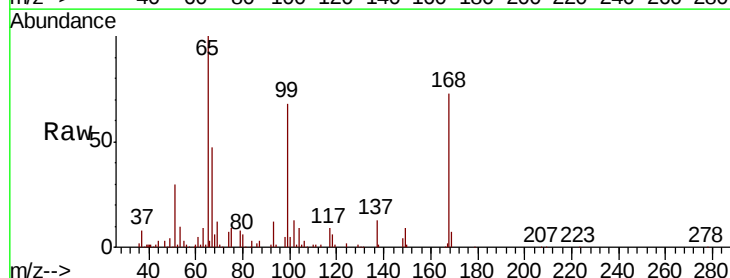
Acq: 21 Sep 2018 17:56

Tgt Ion: 65 Resp: 143760

Ion Ratio Lower Upper

65 100

67 46.8 0.0 94.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.01

50000

40000

30000

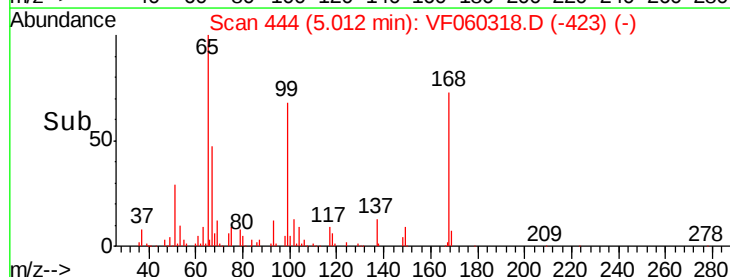
20000

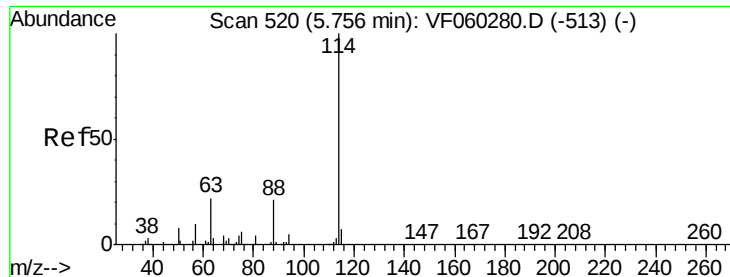
10000

0

4.80 4.90 5.00 5.10 5.20

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 519

Delta R.T. -0.00 min

Lab File: VF060318.D

Acq: 21 Sep 2018 17:56

Instrument :

MSVOA\_F

ClientSampleId :

PL-02-0920-18-A

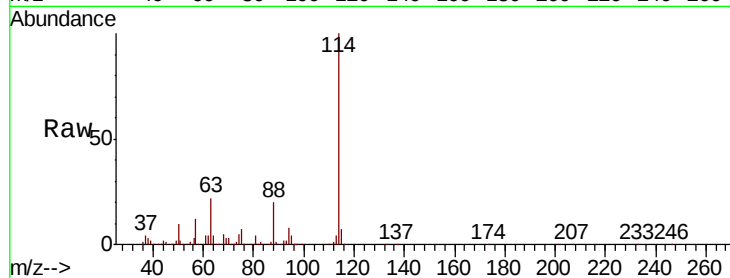
Tot Ion:114 Resp: 345923

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

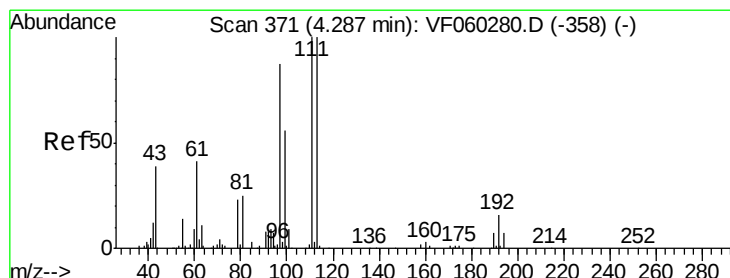
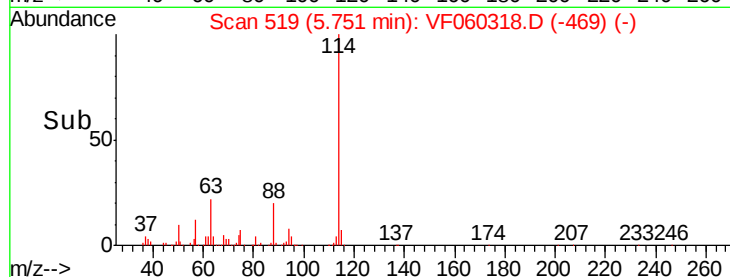
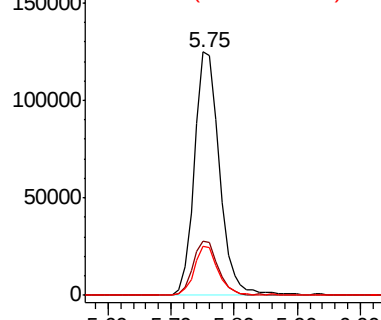
88 19.9 0.0 41.2



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: 46.930 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VF060318.D

Acq: 21 Sep 2018 17:56

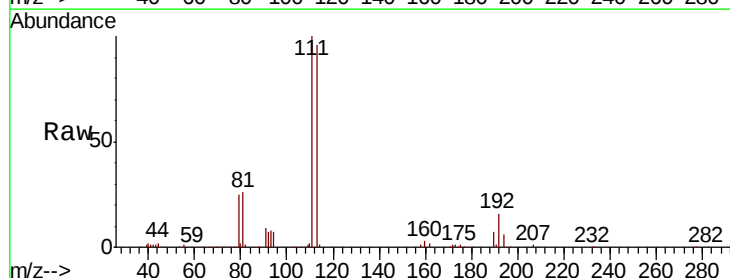
Tgt Ion:113 Resp: 144717

Ion Ratio Lower Upper

113 100

111 104.7 79.6 119.4

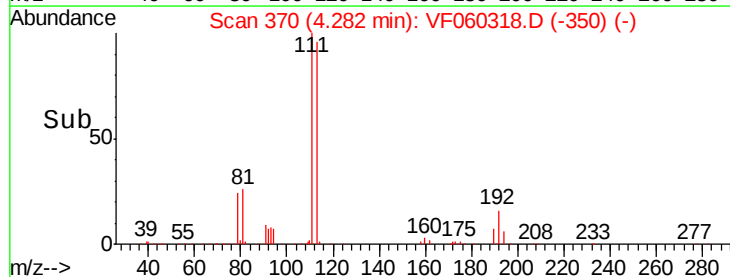
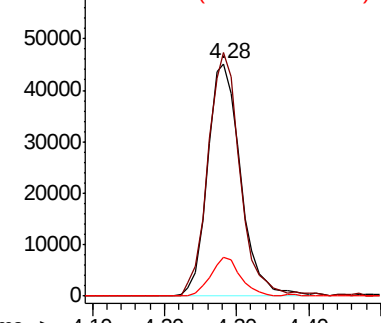
192 16.4 13.0 19.6

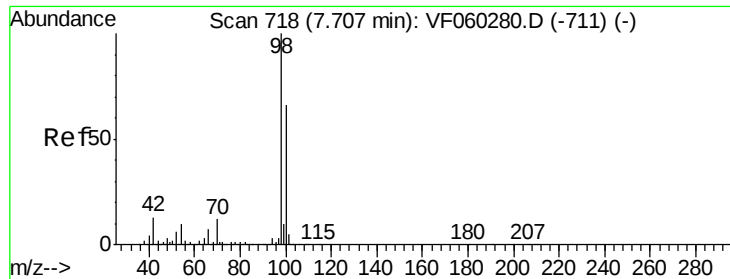


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

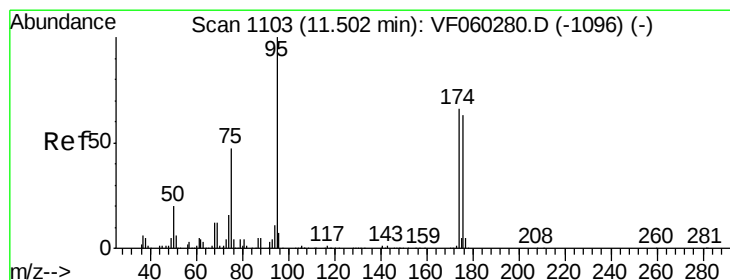
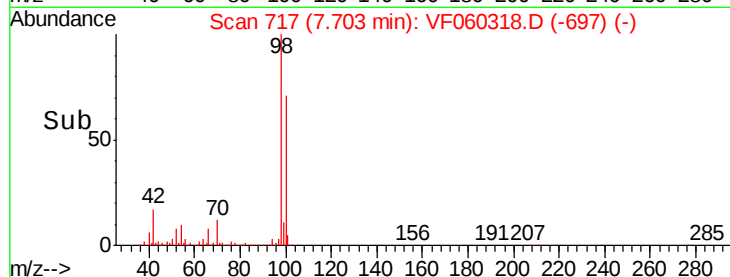
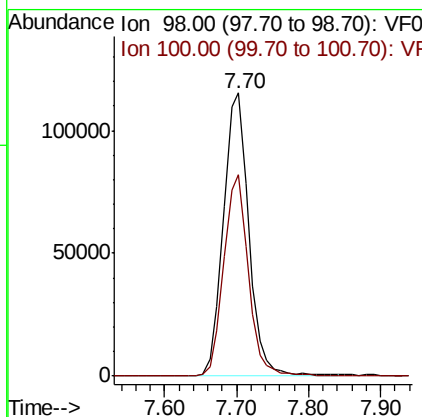
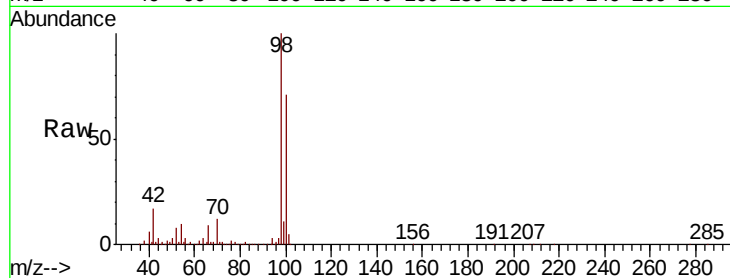




#50  
Toluene-d8  
Concen: 35.205 ug/l  
RT: 7.70 min Scan# 717  
Delta R.T. -0.00 min  
Lab File: VF060318.D  
Acq: 21 Sep 2018 17:56

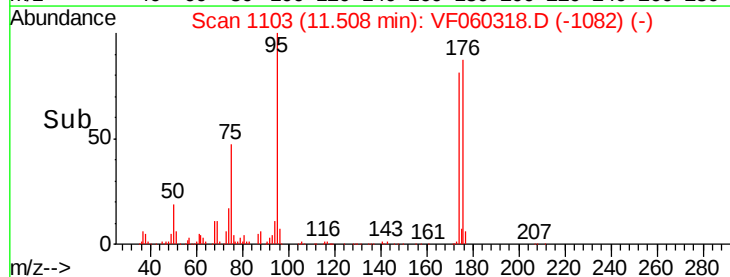
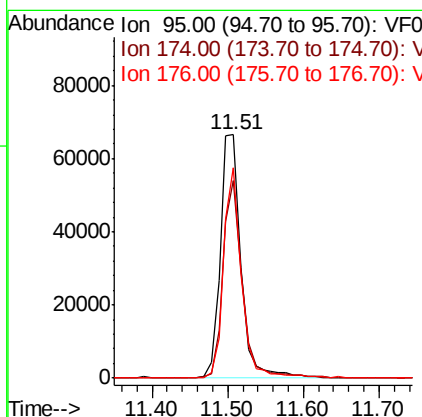
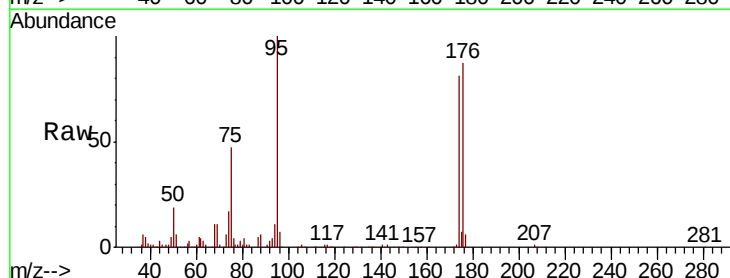
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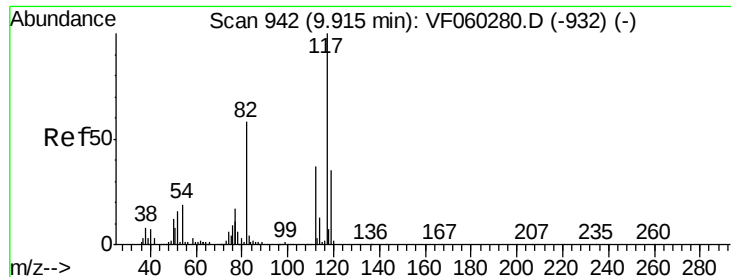
Tot Ion: 98 Resp: 282716  
Ion Ratio Lower Upper  
98 100  
100 71.1 53.0 79.6



#62  
4-Bromofluorobenzene  
Concen: 36.866 ug/l  
RT: 11.51 min Scan# 1103  
Delta R.T. 0.01 min  
Lab File: VF060318.D  
Acq: 21 Sep 2018 17:56

Tgt Ion: 95 Resp: 127973  
Ion Ratio Lower Upper  
95 100  
174 81.3 0.0 131.2  
176 86.6 0.0 126.6

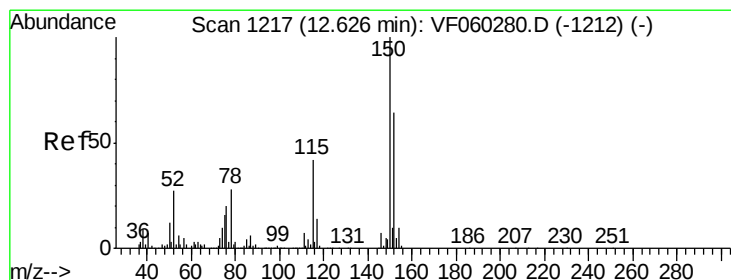
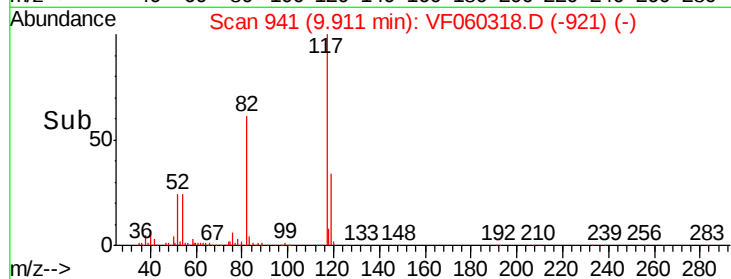
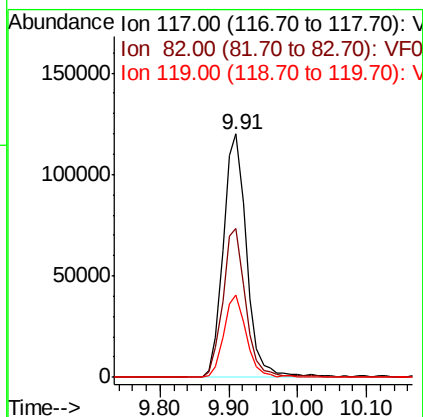
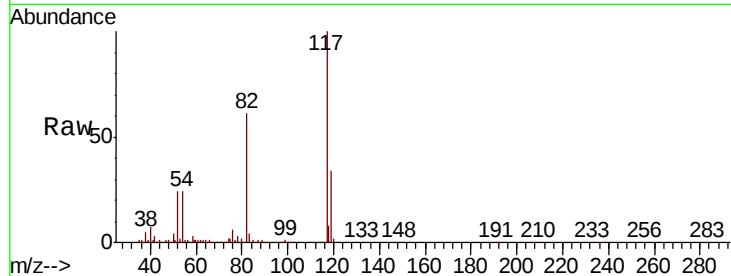




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.91 min Scan# 941  
Delta R.T. -0.00 min  
Lab File: VF060318.D  
Acq: 21 Sep 2018 17:56

Instrument :  
MSVOA\_F  
ClientSampleId :  
PL-02-0920-18-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 61.1  | 46.2  | 69.2  |
| 119     | 33.7  | 27.8  | 41.6  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.62 min Scan# 1216  
Delta R.T. -0.00 min  
Lab File: VF060318.D  
Acq: 21 Sep 2018 17:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 67.4  | 32.6  | 97.8  |
| 150     | 159.6 | 0.0   | 314.2 |

