

Data Path : W:\HPCHEM1\MSVOA\_F\DATA\VF022318\  
 Data File : VF056658.D  
 Acq On : 23 Feb 2018 16:07  
 Operator : JC/SY  
 Sample : J1639-01  
 Misc : 5.30g/5mL/MSVOA-F/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 1-1-2-DENSE-GRADE-AGG-RCA

Quant Time: Feb 24 01:05:31 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_F\METHODS\82F022018S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 21 08:56:21 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.80  | 168  | 476048   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.53  | 114  | 711924   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.68  | 117  | 680884   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.48 | 152  | 367377   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 4.77   | 65  | 258227   | 44.87 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.74% |      |
| 35) Dibromofluoromethane    | 4.03   | 113 | 256155   | 47.84 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.68% |      |
| 50) Toluene-d8              | 7.48   | 98  | 693001   | 43.18 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.36% |      |
| 62) 4-Bromofluorobenzene    | 11.34  | 95  | 333662   | 45.70 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.40% |      |

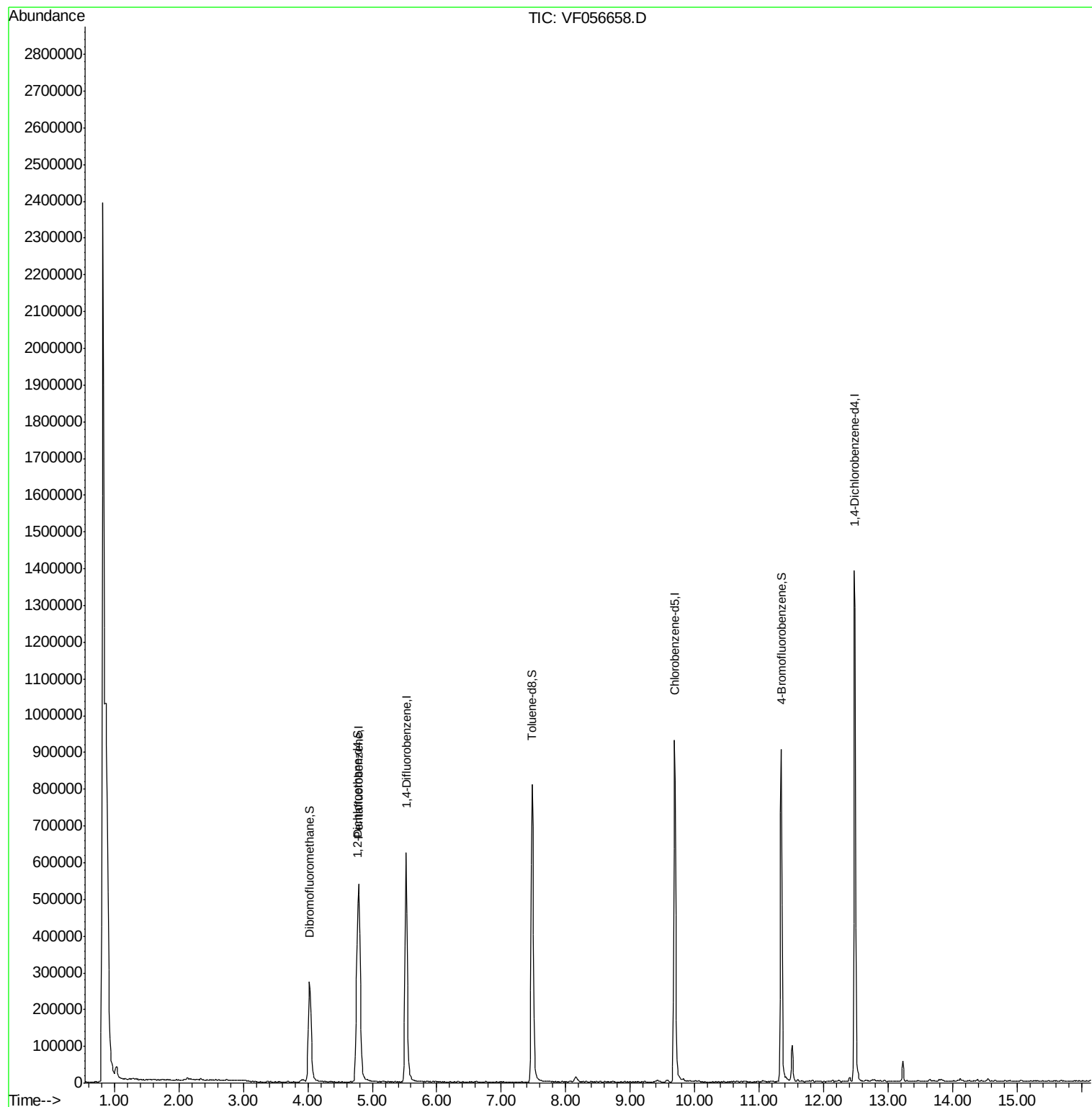
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

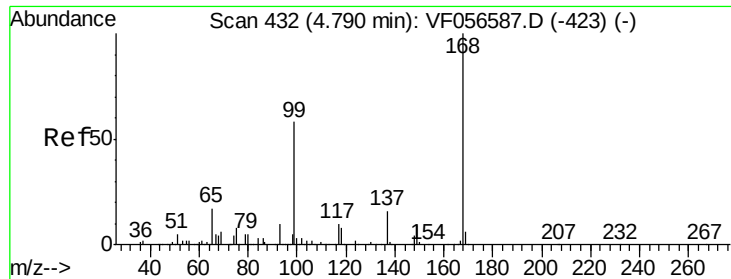
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Feb 21 08:56:21 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.80 min Scan# 432

Delta R.T. 0.01 min

Lab File: VF056658.D

Acq: 23 Feb 2018 16:07

Instrument :

MSVOA\_F

ClientSampleId :

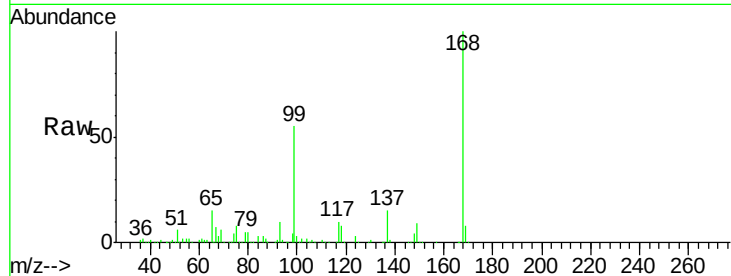
1-1-2-DENSE-GRADE-AGG-RCA

Tgt Ion:168 Resp: 476048

Ion Ratio Lower Upper

168 100

99 55.1 46.2 69.2



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

150000

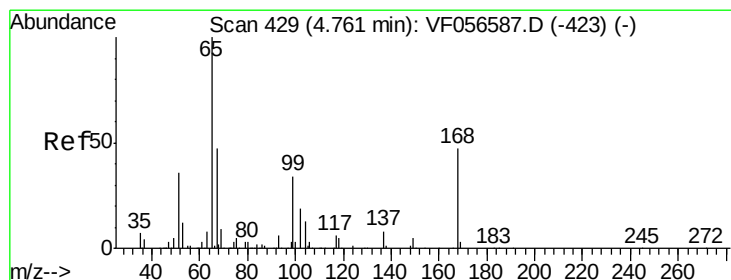
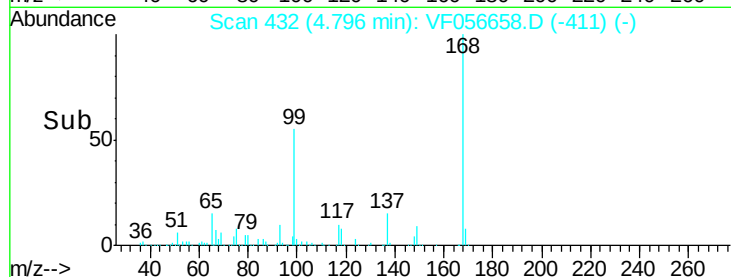
100000

50000

0

4.70 4.80 4.90 5.00

Time-->



#33

1,2-Dichloroethane-d4

Concen: 44.87 ug/l

RT: 4.77 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF056658.D

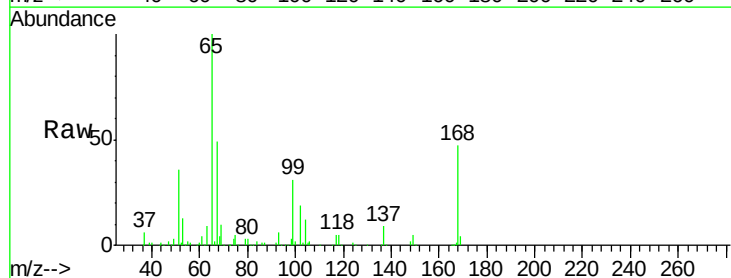
Acq: 23 Feb 2018 16:07

Tgt Ion: 65 Resp: 258227

Ion Ratio Lower Upper

65 100

67 49.1 0.0 103.0



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

100000

80000

60000

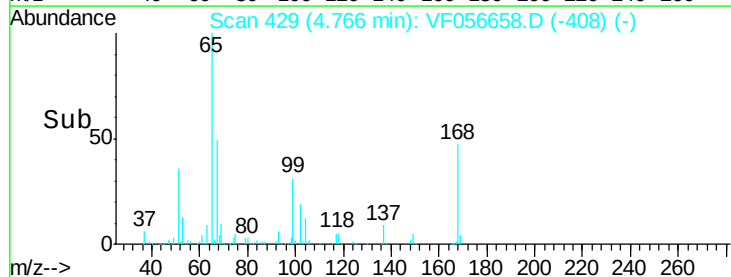
40000

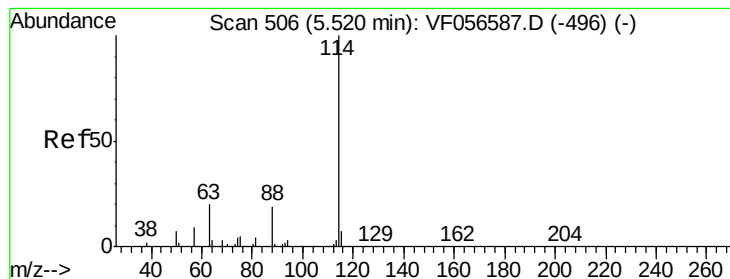
20000

0

4.60 4.70 4.80 4.90 5.00

Time-->





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.53 min Scan# 506

Delta R.T. 0.01 min

Lab File: VF056658.D

Acq: 23 Feb 2018 16:07

Instrument :

MSVOA\_F

ClientSampleId :

1-1-2-DENSE-GRADE-AGG-RCA

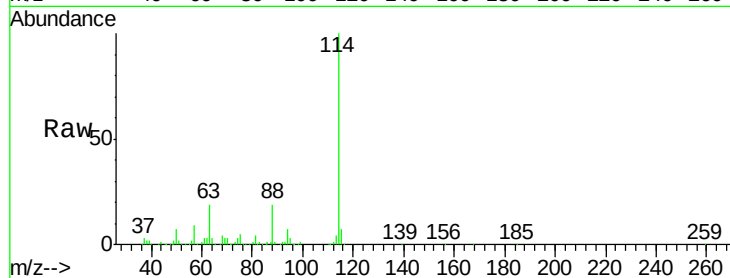
Tgt Ion:114 Resp: 711924

Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.6

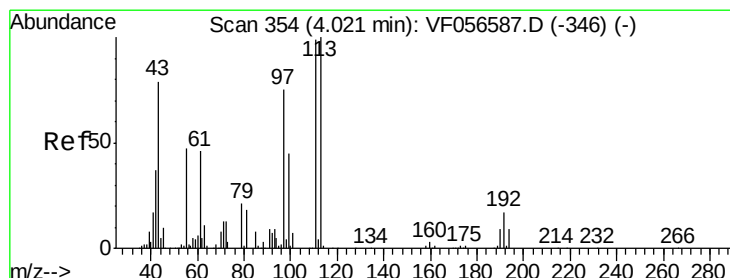
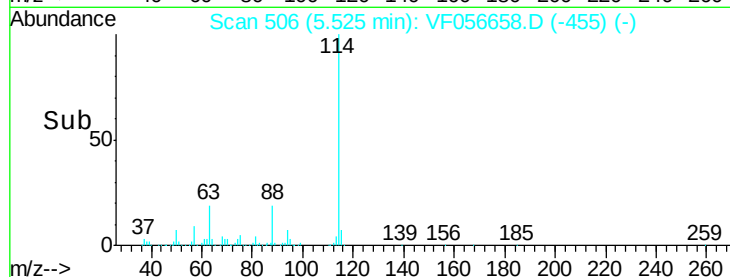
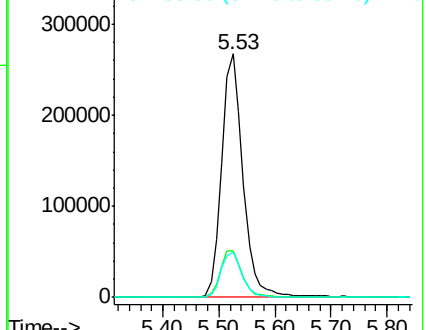
88 18.6 0.0 37.8



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: 47.84 ug/l

RT: 4.03 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF056658.D

Acq: 23 Feb 2018 16:07

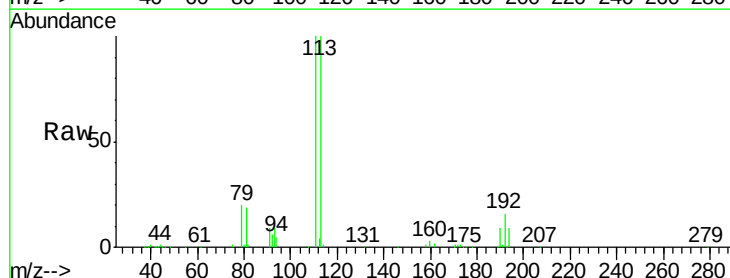
Tgt Ion:113 Resp: 256155

Ion Ratio Lower Upper

113 100

111 100.3 79.1 118.7

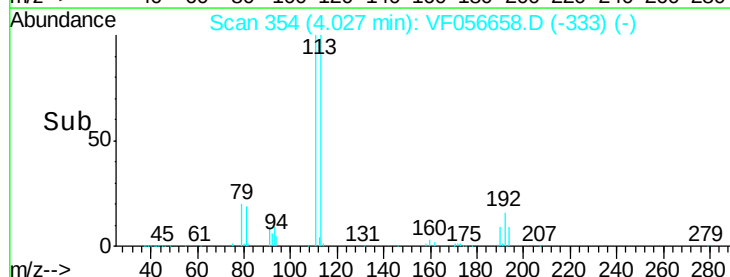
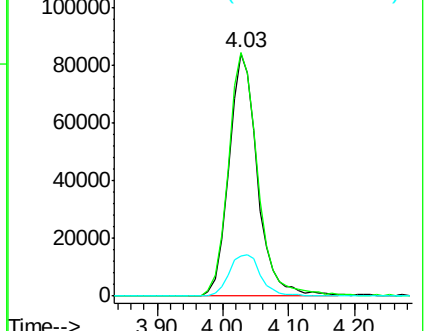
192 16.7 13.9 20.9

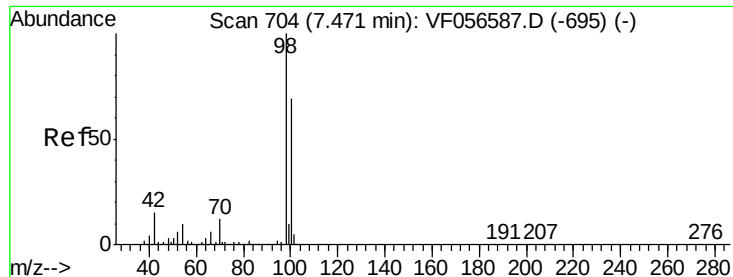


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

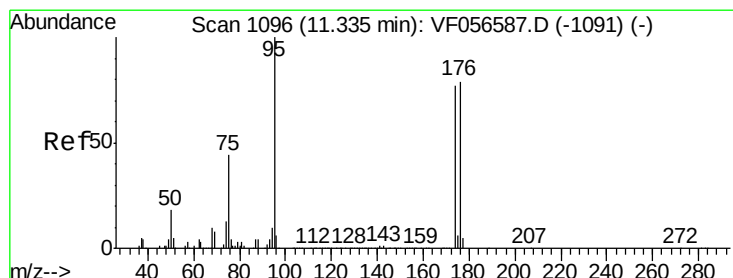
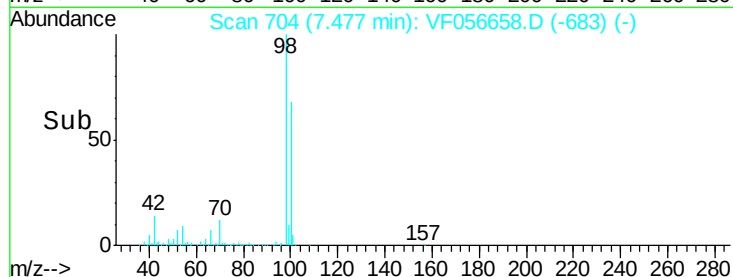
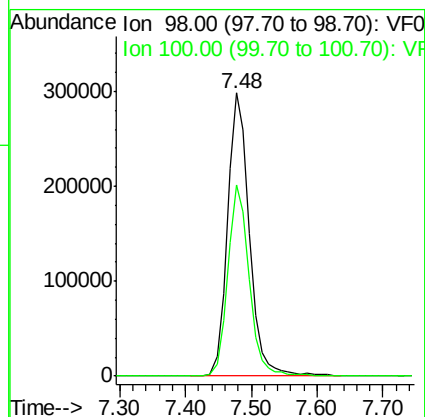
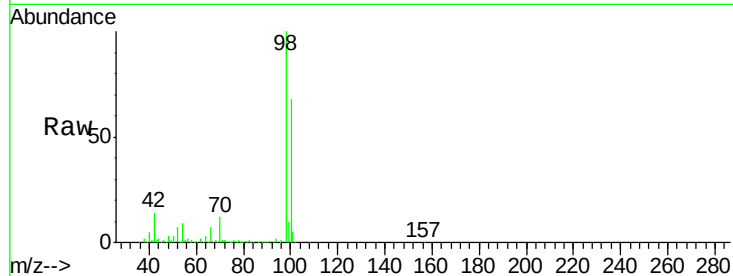




#50  
Toluene-d8  
Concen: 43.18 ug/l  
RT: 7.48 min Scan# 704  
Delta R.T. 0.01 min  
Lab File: VF056658.D  
Acq: 23 Feb 2018 16:07

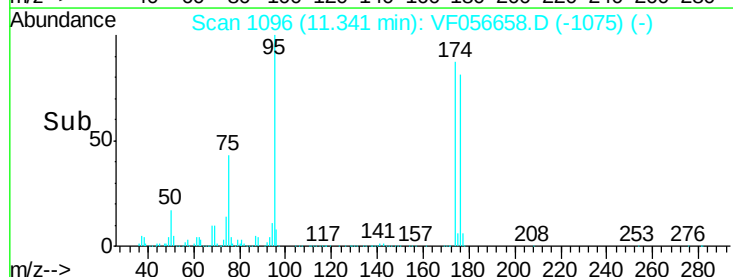
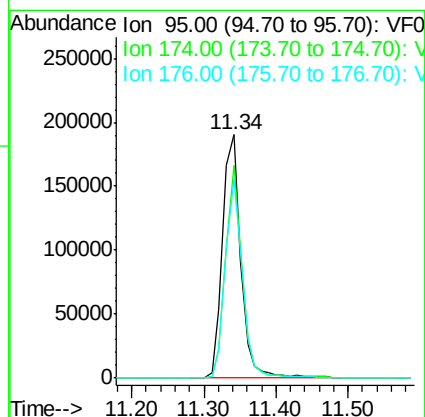
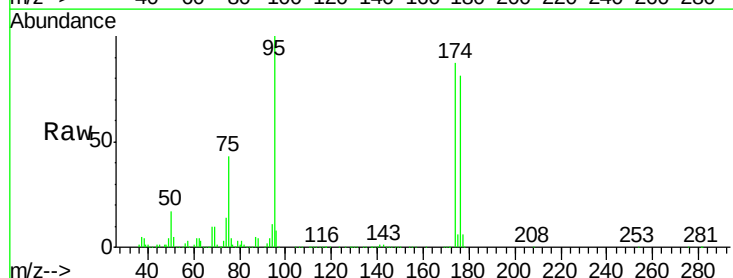
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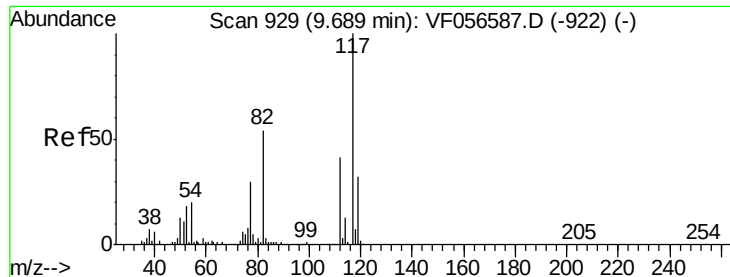
Tgt Ion: 98 Resp: 693001  
Ion Ratio Lower Upper  
98 100  
100 67.7 55.4 83.0



#62  
4-Bromofluorobenzene  
Concen: 45.70 ug/l  
RT: 11.34 min Scan# 1096  
Delta R.T. 0.01 min  
Lab File: VF056658.D  
Acq: 23 Feb 2018 16:07

Tgt Ion: 95 Resp: 333662  
Ion Ratio Lower Upper  
95 100  
174 87.4 0.0 154.2  
176 81.4 0.0 157.2

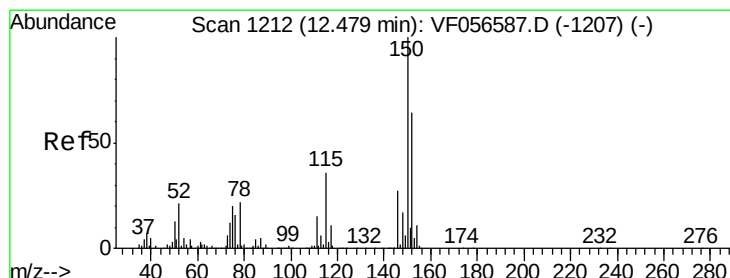
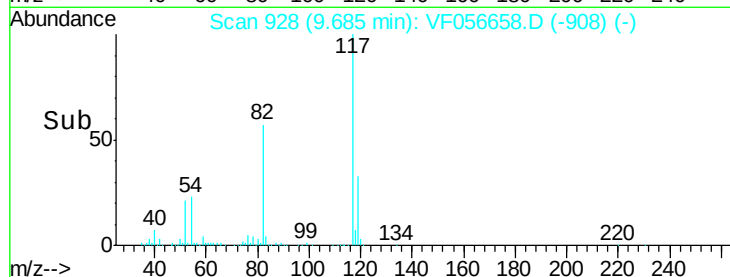
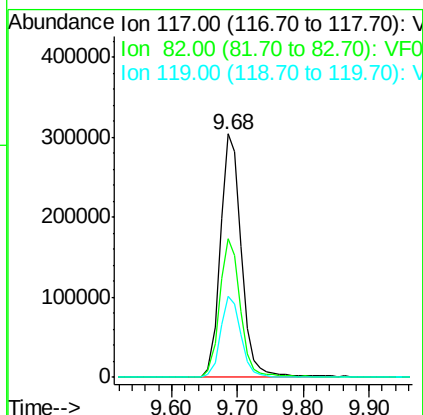
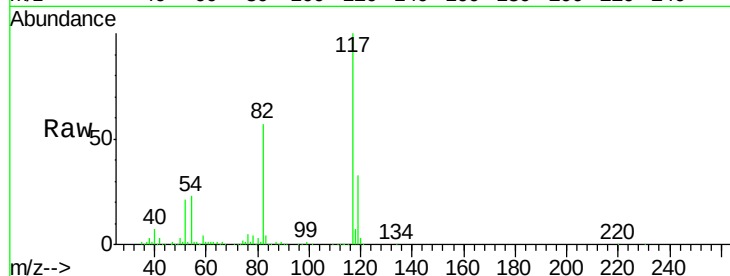




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.68 min Scan# 928  
Delta R.T. -0.00 min  
Lab File: VF056658.D  
Acq: 23 Feb 2018 16:07

Instrument :  
MSVOA\_F  
ClientSampleId :  
1-1-2-DENSE-GRADE-AGG-RCA

Tgt Ion:117 Resp: 680884  
Ion Ratio Lower Upper  
117 100  
82 57.2 43.0 64.6  
119 33.0 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.48 min Scan# 1212  
Delta R.T. 0.01 min  
Lab File: VF056658.D  
Acq: 23 Feb 2018 16:07

Tgt Ion:152 Resp: 367377  
Ion Ratio Lower Upper  
152 100  
115 54.4 28.1 84.3  
150 150.9 0.0 315.6

