

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030519\  
 Data File : VF061856.D  
 Acq On : 5 Mar 2019 20:27  
 Operator : VA/AP  
 Sample : K1752-01  
 Misc : 5.85g/5mL/MSVOA-F/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 DR-FC

Quant Time: Mar 06 06:27:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 05 04:50:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.87  | 168  | 234162   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 365019   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.77  | 117  | 315409   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 174486   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 4.84   | 65  | 75379    | 44.20 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 88.40% |      |
| 35) Dibromofluoromethane    | 4.12   | 113 | 104147   | 40.88 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 81.76% |      |
| 50) Toluene-d8              | 7.56   | 98  | 264396   | 34.92 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 69.84% |      |
| 62) 4-Bromofluorobenzene    | 11.41  | 95  | 110653   | 37.31 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 74.62% |      |

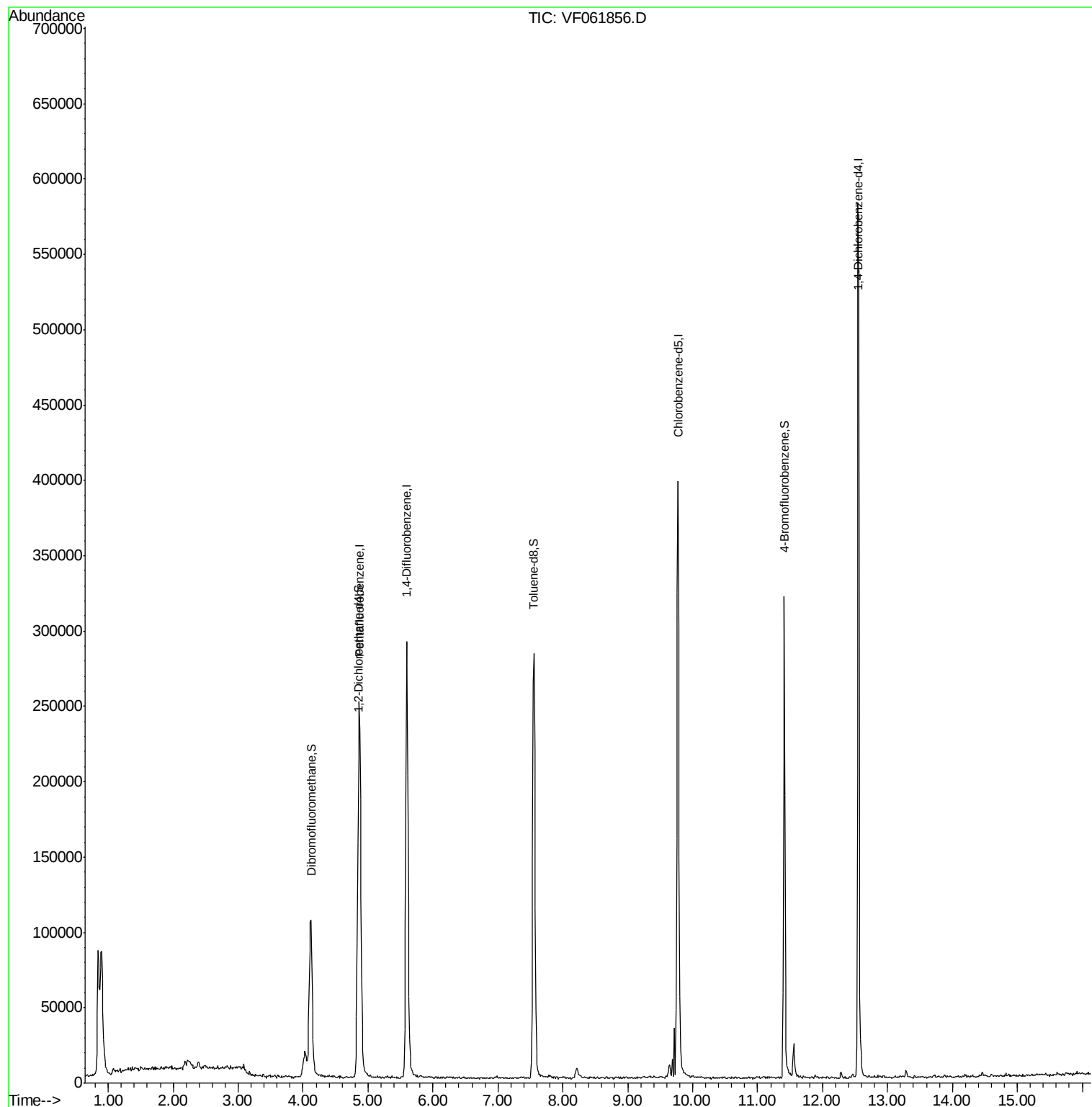
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

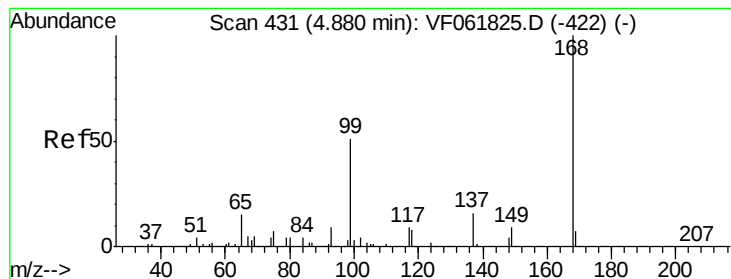
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF030519\  
Data File : VF061856.D  
Acq On : 5 Mar 2019 20:27  
Operator : VA/AP  
Sample : K1752-01  
Misc : 5.85g/5mL/MSVOA-F/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
DR-FC

Quant Time: Mar 06 06:27:30 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
Quant Title : SW846 8260  
QLast Update : Tue Mar 05 04:50:44 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061856.D

Acq: 5 Mar 2019 20:27

Instrument :

MSVOA\_F

ClientSampleId :

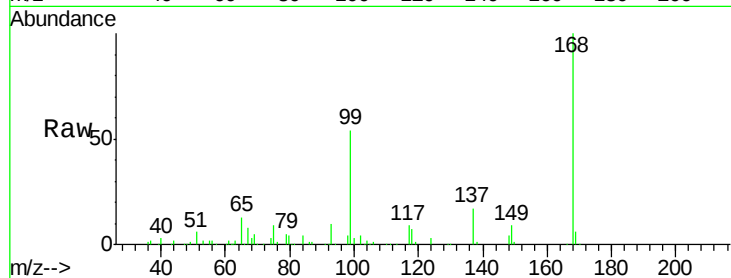
DR-FC

Tot Ion:168 Resp: 234162

Ion Ratio Lower Upper

168 100

99 53.6 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

80000

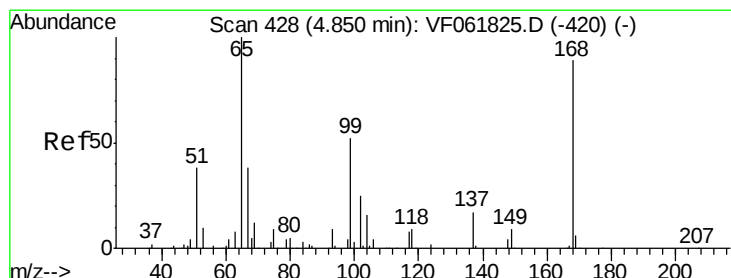
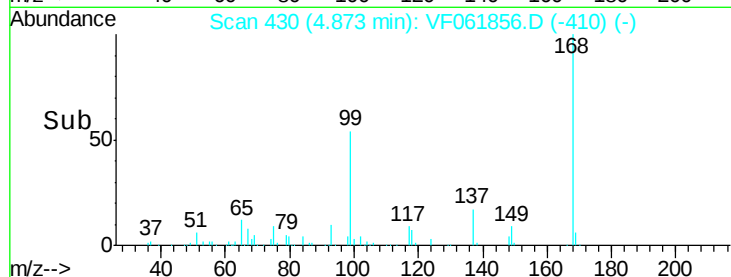
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#33

1,2-Dichloroethane-d4

Concen: 44.203 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF061856.D

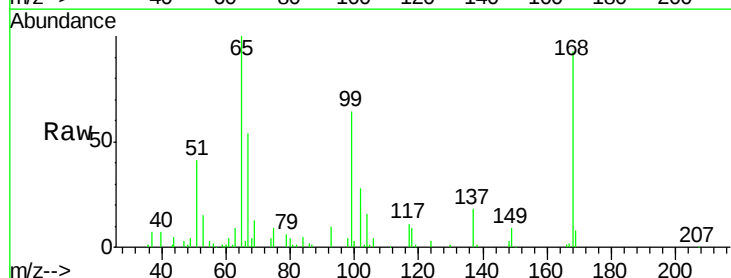
Acq: 5 Mar 2019 20:27

Tgt Ion: 65 Resp: 75379

Ion Ratio Lower Upper

65 100

67 54.0 0.0 108.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.84

30000

25000

20000

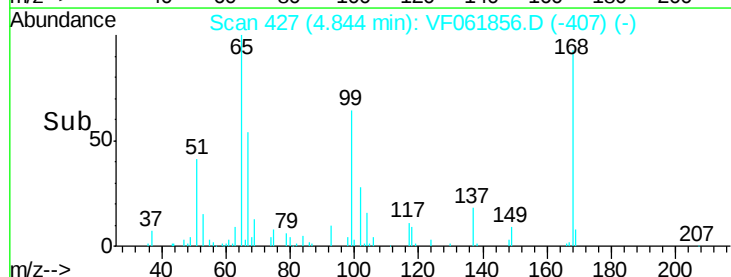
15000

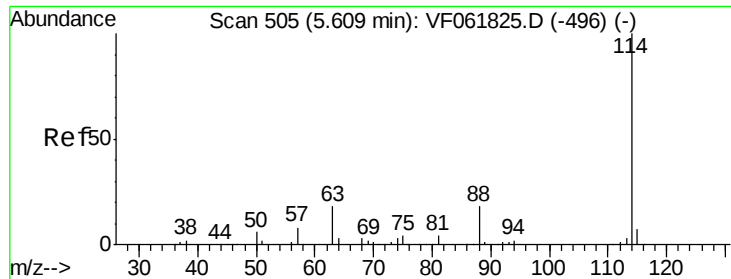
10000

5000

0

Time--> 4.70 4.80 4.90 5.00





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061856.D

Acq: 5 Mar 2019 20:27

Instrument :

MSVOA\_F

ClientSampleId :

DR-FC

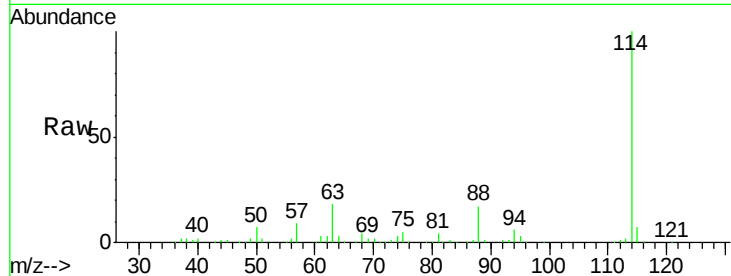
Tot Ion:114 Resp: 365019

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.6

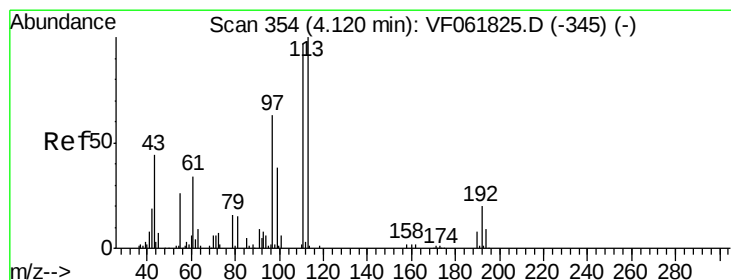
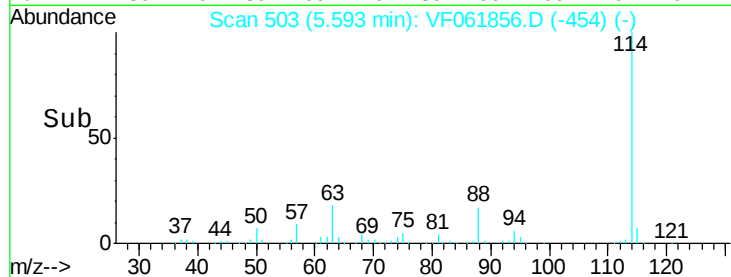
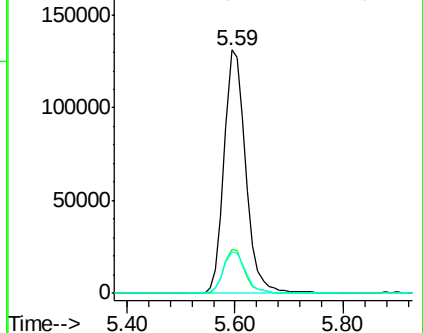
88 17.3 0.0 35.6



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: 40.884 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.00 min

Lab File: VF061856.D

Acq: 5 Mar 2019 20:27

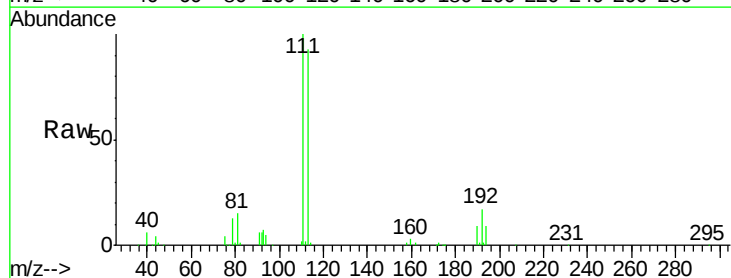
Tgt Ion:113 Resp: 104147

Ion Ratio Lower Upper

113 100

111 107.9 77.6 116.4

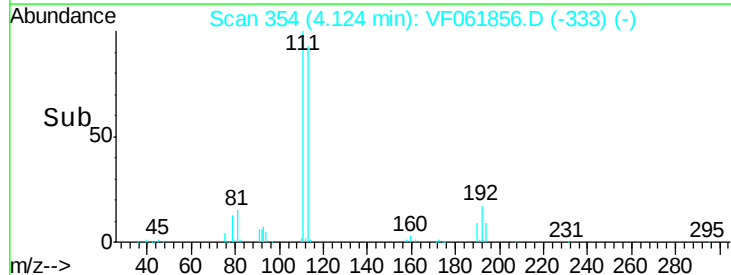
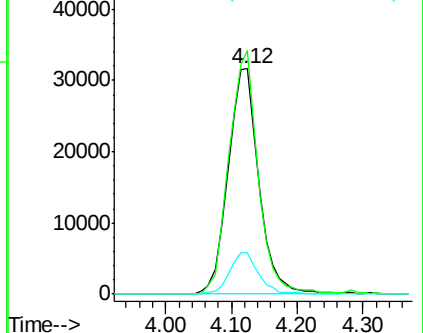
192 18.1 15.9 23.9

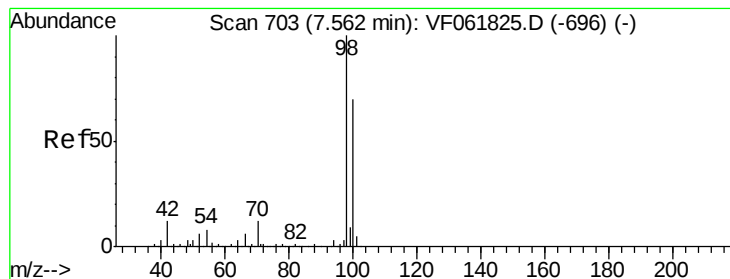


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 34.920 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF061856.D

Acq: 5 Mar 2019 20:27

Instrument :

MSVOA\_F

ClientSampleId :

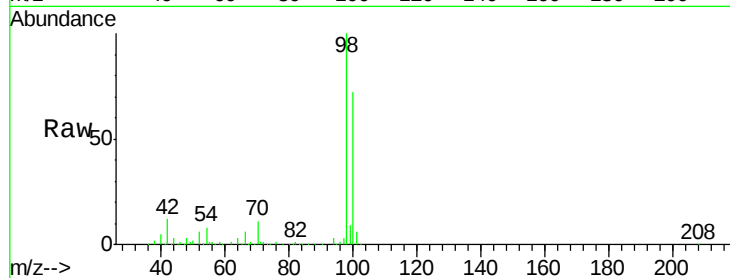
DR-FC

Tot Ion: 98 Resp: 264396

Ion Ratio Lower Upper

98 100

100 72.0 56.0 84.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.56

120000

100000

80000

60000

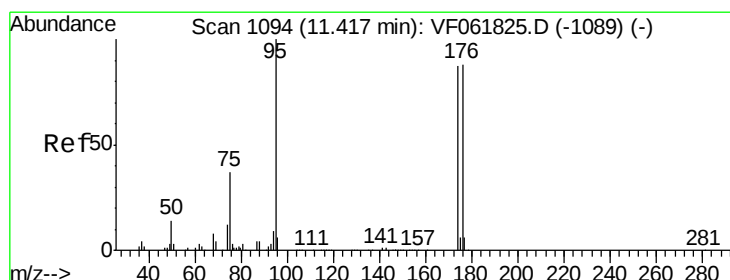
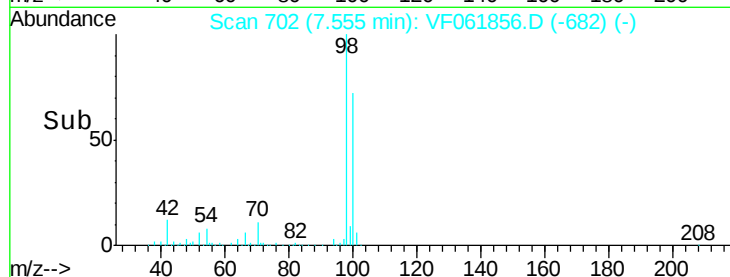
40000

20000

0

Time-->

7.40 7.50 7.60 7.70



#62

4-Bromofluorobenzene

Concen: 37.308 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061856.D

Acq: 5 Mar 2019 20:27

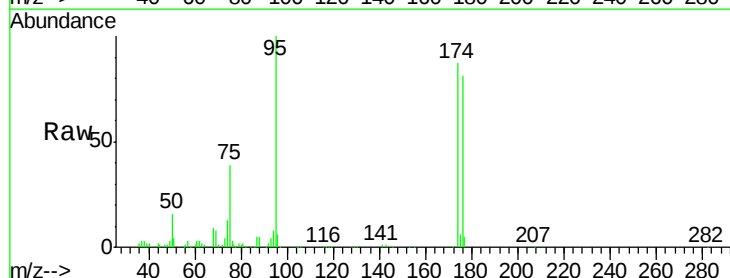
Tgt Ion: 95 Resp: 110653

Ion Ratio Lower Upper

95 100

174 86.8 0.0 174.0

176 81.5 0.0 175.2



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

11.41

100000

80000

60000

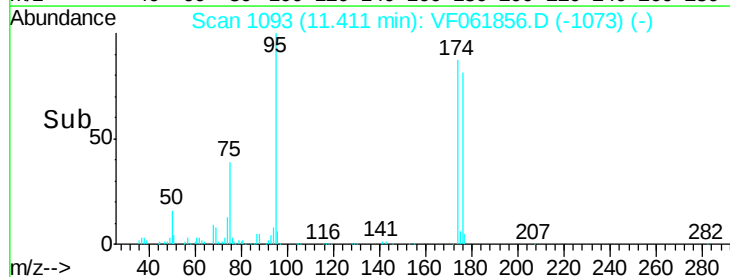
40000

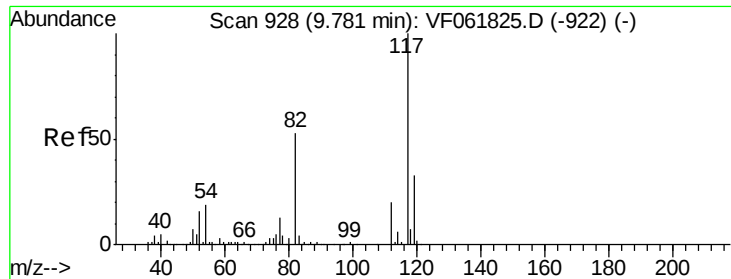
20000

0

Time-->

11.30 11.40 11.50 11.60

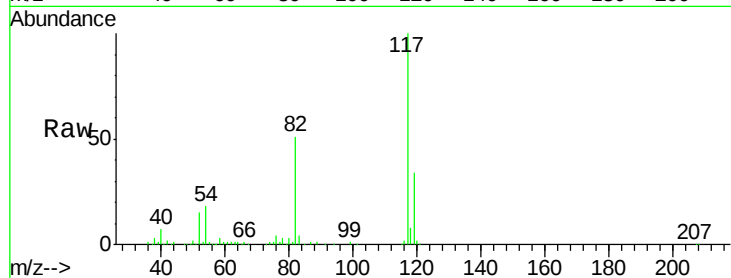




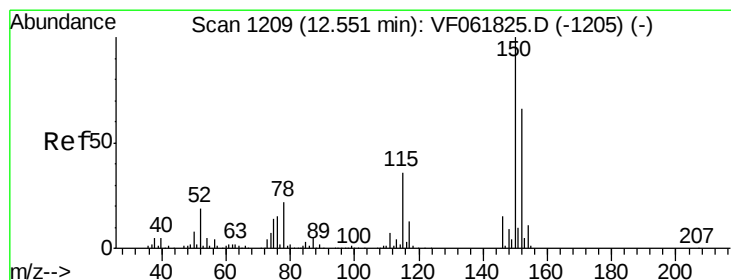
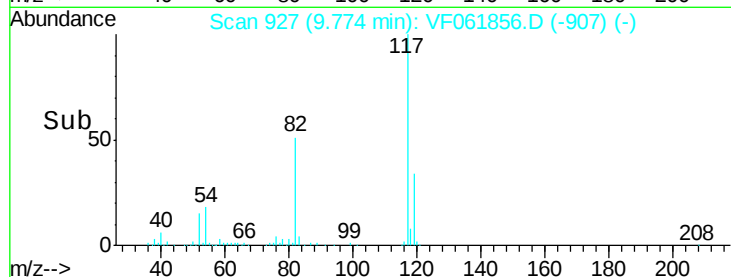
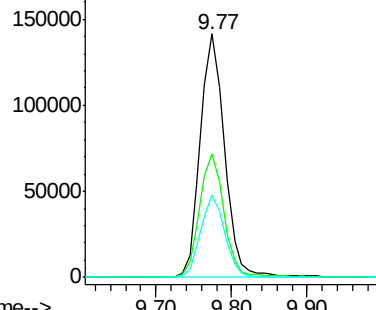
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.77 min Scan# 927  
Delta R.T. -0.01 min  
Lab File: VF061856.D  
Acq: 5 Mar 2019 20:27

Instrument :  
MSVOA\_F  
ClientSampleId :  
DR-FC

Tot Ion:117 Resp: 315409  
Ion Ratio Lower Upper  
117 100  
82 50.7 42.6 63.8  
119 33.8 26.0 39.0

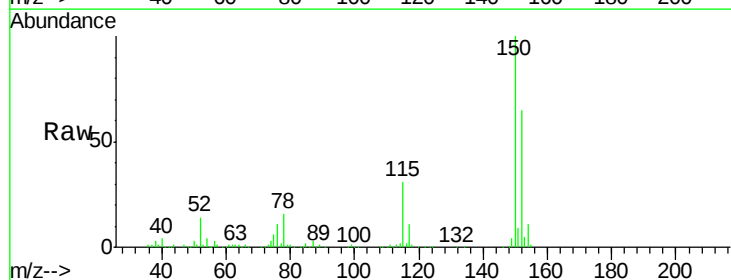


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 119.00 (118.70 to 119.70): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.55 min Scan# 1209  
Delta R.T. 0.00 min  
Lab File: VF061856.D  
Acq: 5 Mar 2019 20:27

Tgt Ion:152 Resp: 174486  
Ion Ratio Lower Upper  
152 100  
115 47.7 27.7 83.1  
150 152.8 0.0 304.2



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

