

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010919\  
 Data File : VF061300.D  
 Acq On : 9 Jan 2019 14:45  
 Operator : VA/AP  
 Sample : K1082-05  
 Misc : 8.32g/5mL/MSVOA-F/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SP-1-3

Quant Time: Jan 10 15:26:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F010819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 09 07:13:51 2019  
 Response via : Initial Calibration

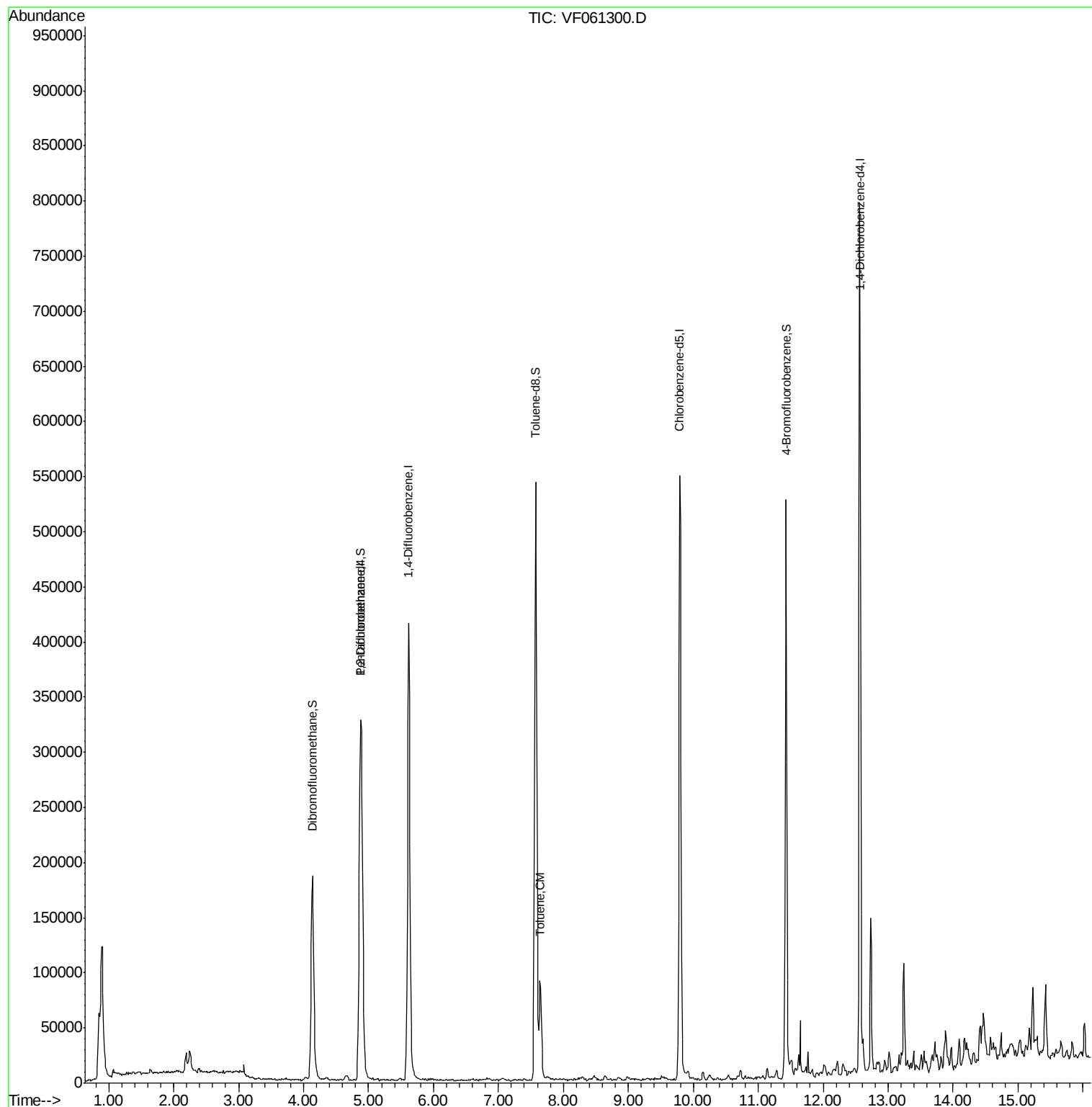
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|---------|-----------|
| 1) Pentafluorobenzene       | 4.89  | 168  | 238679   | 50.00 | ug/l    | 0.01      |
| 34) 1,4-Difluorobenzene     | 5.62  | 114  | 447345   | 50.00 | ug/l    | 0.01      |
| 63) Chlorobenzene-d5        | 9.79  | 117  | 400695   | 50.00 | ug/l    | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 12.56 | 152  | 188678   | 50.00 | ug/l    | 0.00      |
| System Monitoring Compounds |       |      |          |       |         |           |
| 33) 1,2-Dichloroethane-d4   | 4.87  | 65   | 147186   | 55.40 | ug/l    | 0.01      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 110.80% |           |
| 35) Dibromofluoromethane    | 4.14  | 113  | 174660   | 51.03 | ug/l    | 0.02      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 102.06% |           |
| 50) Toluene-d8              | 7.57  | 98   | 462186   | 45.63 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 91.26%  |           |
| 62) 4-Bromofluorobenzene    | 11.43 | 95   | 203331   | 45.97 | ug/l    | 0.01      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 91.94%  |           |
| Target Compounds            |       |      |          |       |         |           |
| 52) Toluene                 | 7.64  | 92   | 45878    | 5.853 | ug/l    | Qvalue 99 |

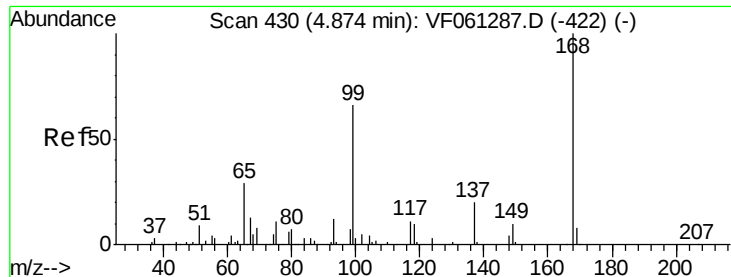
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Jan 09 07:13:51 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.01 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

Instrument :

MSVOA\_F

ClientSampleId :

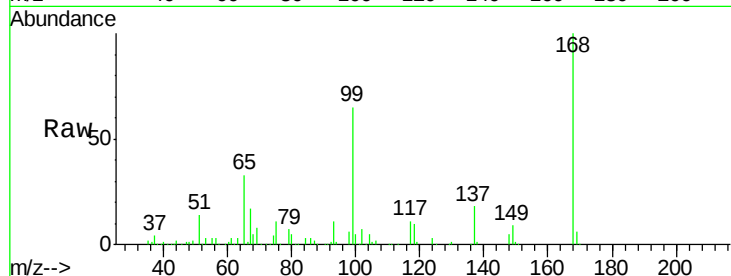
SP-1-3

Tot Ion:168 Resp: 238679

Ion Ratio Lower Upper

168 100

99 64.8 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

80000

60000

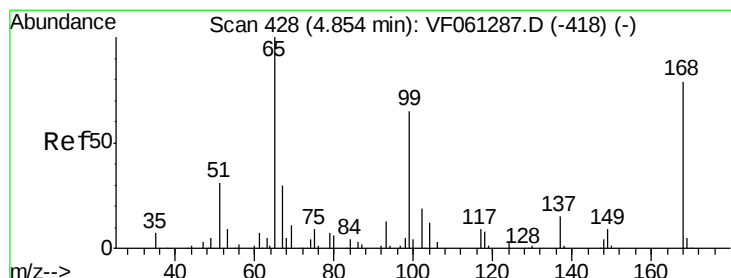
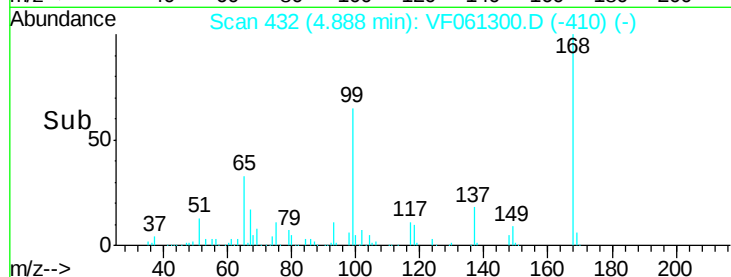
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 55.403 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061300.D

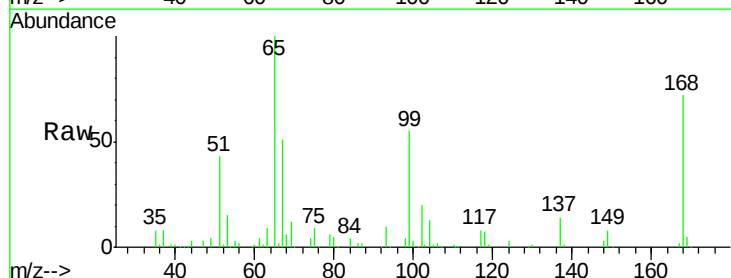
Acq: 9 Jan 2019 14:45

Tgt Ion: 65 Resp: 147186

Ion Ratio Lower Upper

65 100

67 51.0 0.0 98.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

60000

50000

40000

30000

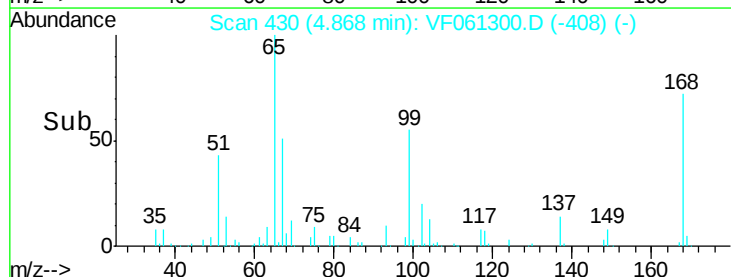
20000

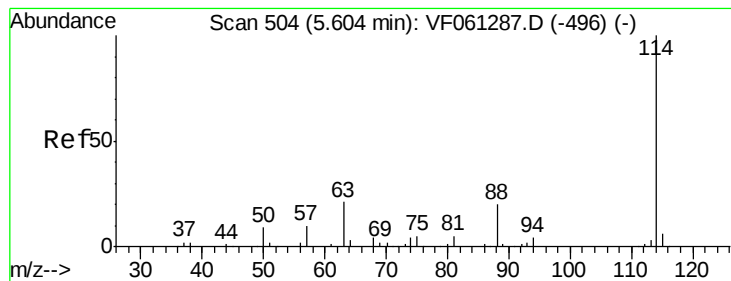
10000

0

4.70 4.80 4.90 5.00 5.10

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. 0.01 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

Instrument :

MSVOA\_F

ClientSampleId :

SP-1-3

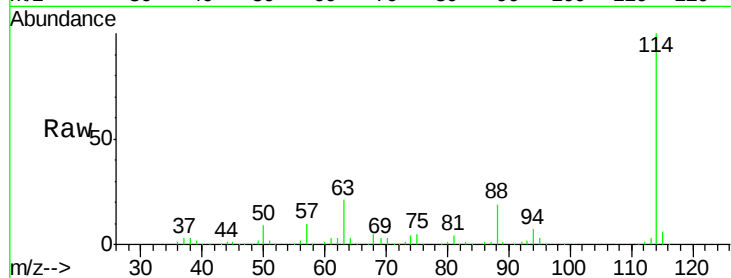
Tot Ion:114 Resp: 447345

Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.8

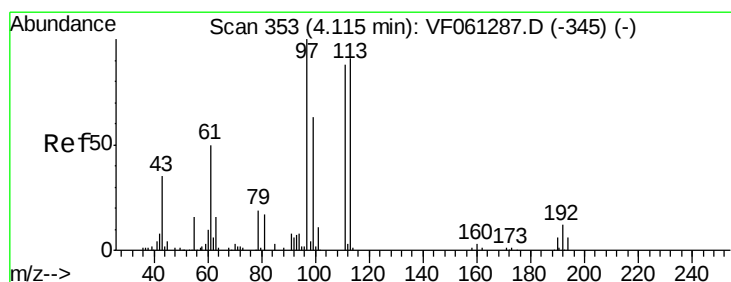
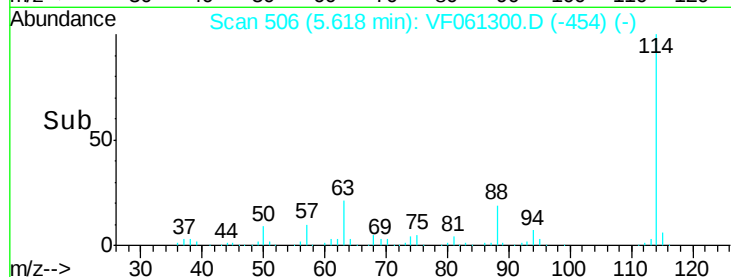
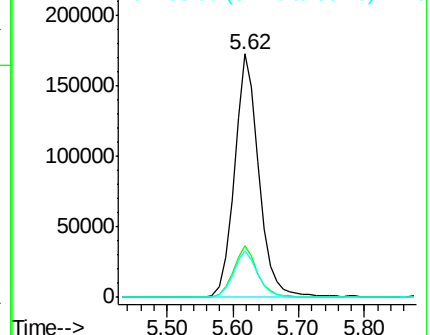
88 19.2 0.0 40.0



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: 51.026 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.02 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

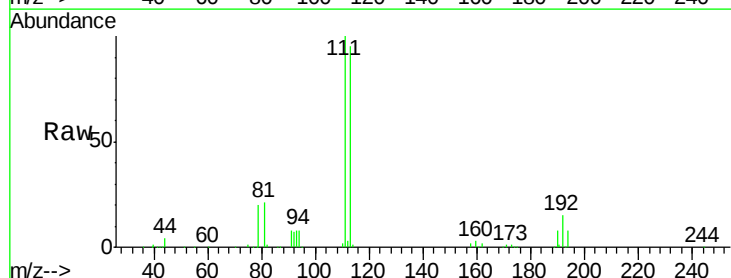
Tgt Ion:113 Resp: 174660

Ion Ratio Lower Upper

113 100

111 104.7 78.0 117.0

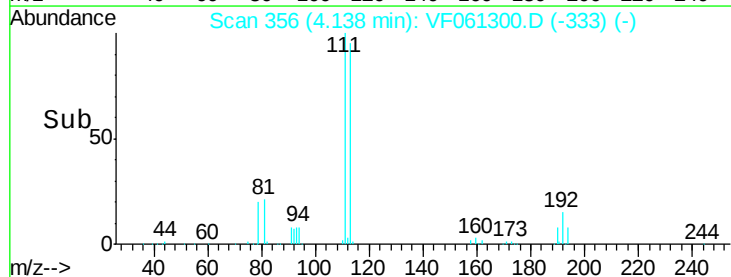
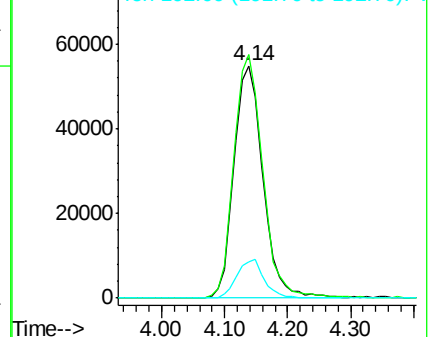
192 15.8 10.6 16.0

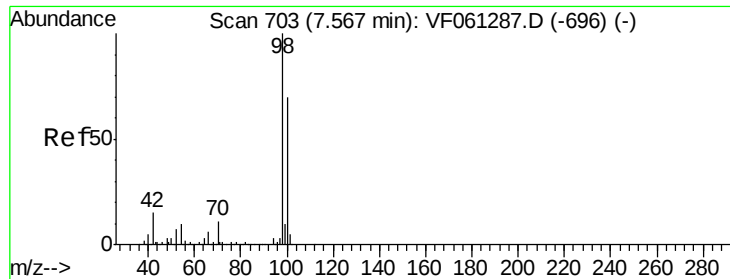


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

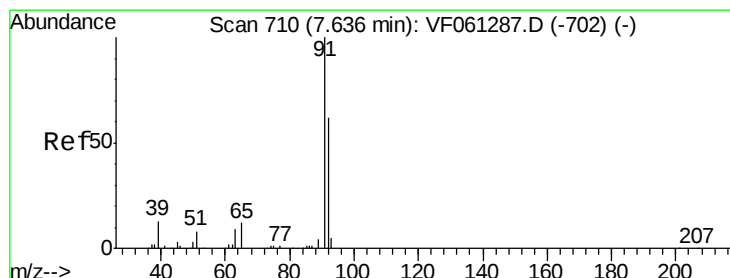
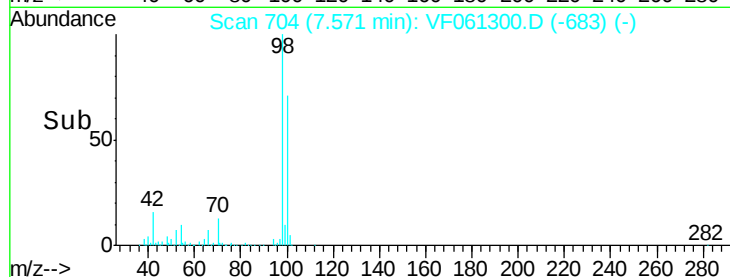
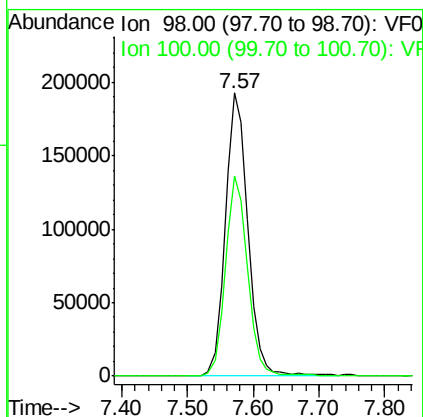
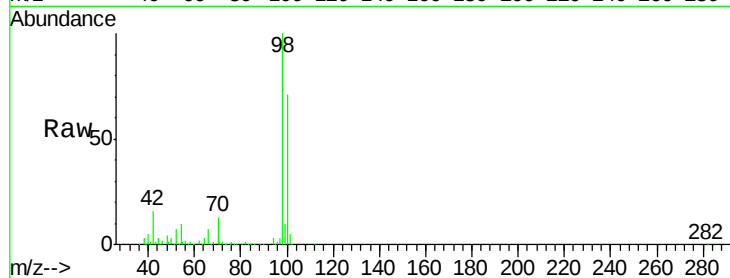




#50  
Toluene-d8  
Concen: 45.629 ug/l  
RT: 7.57 min Scan# 704  
Delta R.T. 0.00 min  
Lab File: VF061300.D  
Acq: 9 Jan 2019 14:45

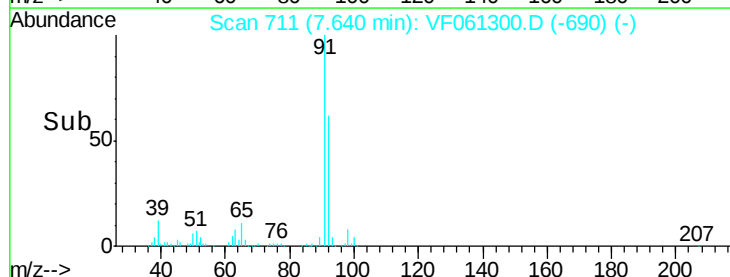
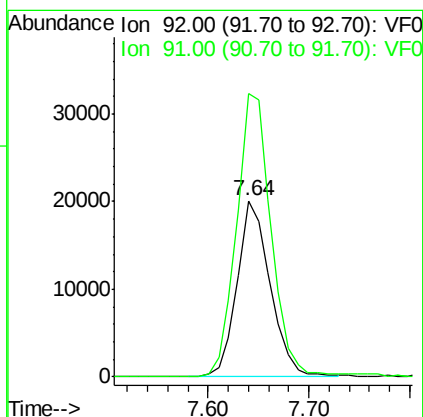
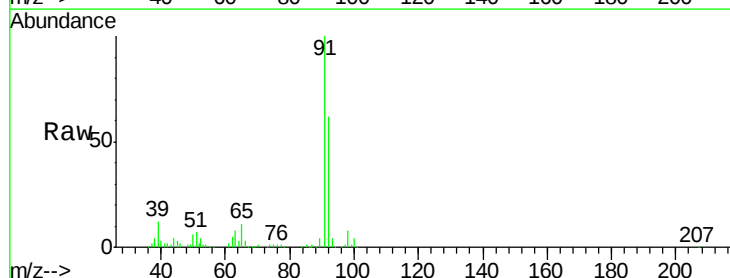
Instrument :  
MSVOA\_F  
ClientSampleId :  
SP-1-3

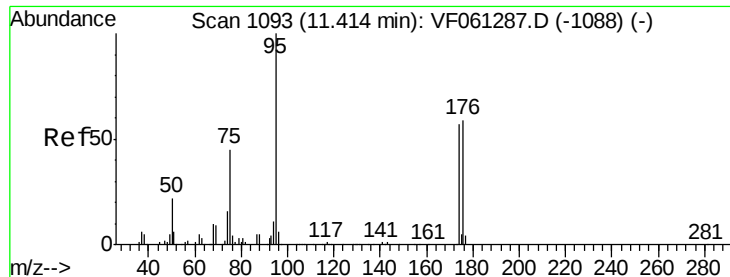
Tot Ion: 98 Resp: 462186  
Ion Ratio Lower Upper  
98 100  
100 70.6 55.6 83.4



#52  
Toluene  
Concen: 5.853 ug/l  
RT: 7.64 min Scan# 711  
Delta R.T. 0.00 min  
Lab File: VF061300.D  
Acq: 9 Jan 2019 14:45

Tgt Ion: 92 Resp: 45878  
Ion Ratio Lower Upper  
92 100  
91 160.7 129.2 193.8





#62

4-Bromofluorobenzene

Concen: 45.971 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

Instrument :

MSVOA\_F

ClientSampleId :

SP-1-3

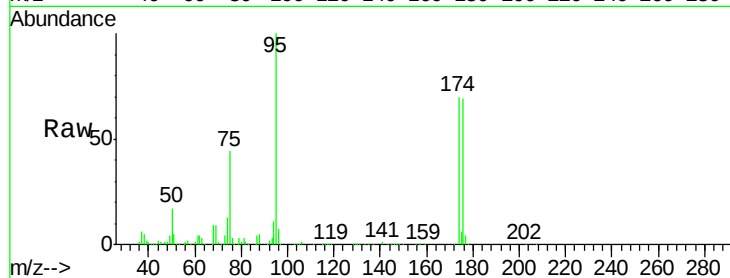
Tot Ion: 95 Resp: 203331

Ion Ratio Lower Upper

95 100

174 70.0 0.0 114.2

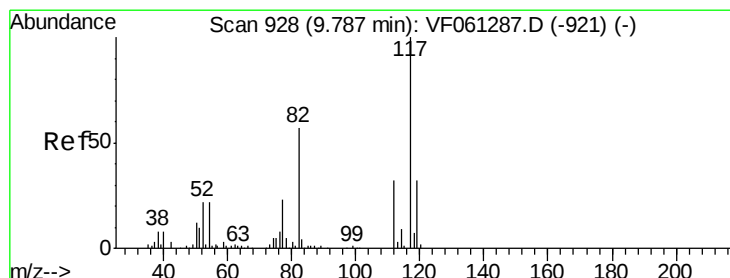
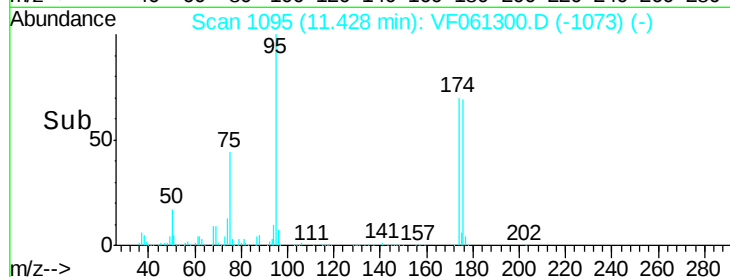
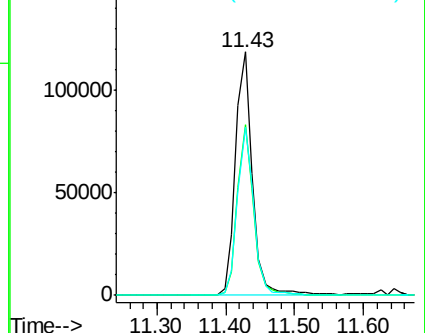
176 69.0 0.0 117.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 929

Delta R.T. 0.00 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

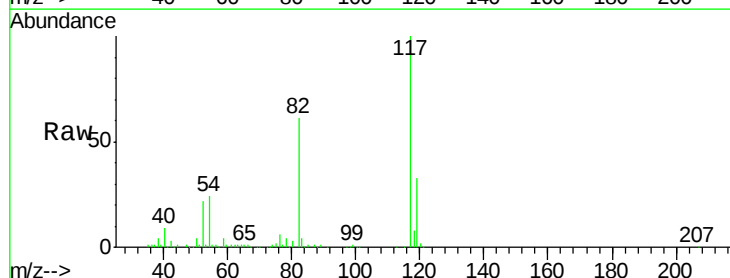
Tgt Ion: 117 Resp: 400695

Ion Ratio Lower Upper

117 100

82 61.1 45.3 67.9

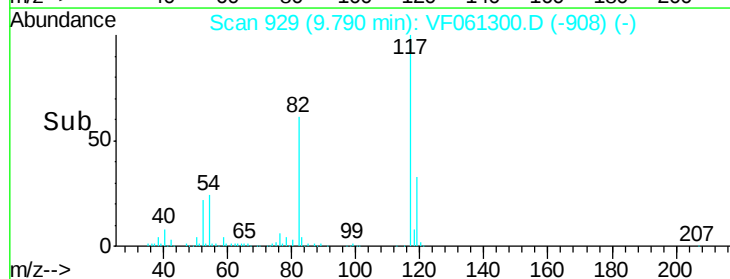
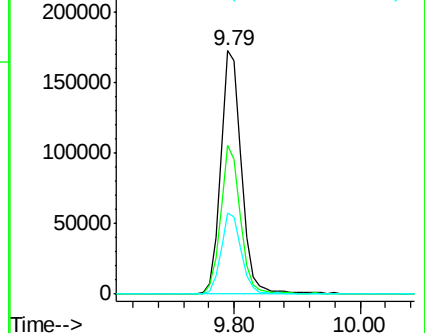
119 33.2 25.4 38.0

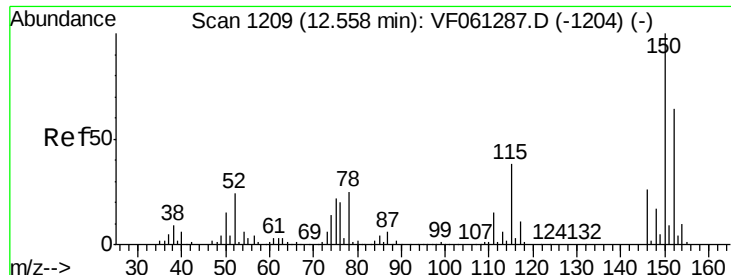


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

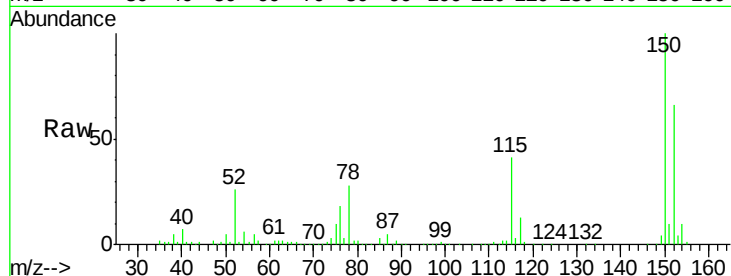




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.56 min Scan# 1210  
 Delta R.T. 0.00 min  
 Lab File: VF061300.D  
 Acq: 9 Jan 2019 14:45

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SP-1-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 62.2  | 29.6  | 88.9  |
| 150     | 151.2 | 0.0   | 315.4 |



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

