

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062618\  
 Data File : VF059328.D  
 Acq On : 26 Jun 2018 20:28  
 Operator : VA/AP  
 Sample : J3629-06  
 Misc : 6.28g/5mL/MSVOA-F/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 A0C10-01

Quant Time: Jun 27 05:37:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F062518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 26 08:45:17 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.02  | 168  | 58893    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.75  | 114  | 66237    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.90  | 117  | 42306    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 10538    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 5.00   | 65  | 8854     | 11.64 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 23.28% |      |
| 35) Dibromofluoromethane    | 4.28   | 113 | 12190    | 25.19 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 50.38% |      |
| 50) Toluene-d8              | 7.69   | 98  | 43065    | 35.94 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 71.88% |      |
| 62) 4-Bromofluorobenzene    | 11.50  | 95  | 11071    | 16.38 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 32.76% |      |

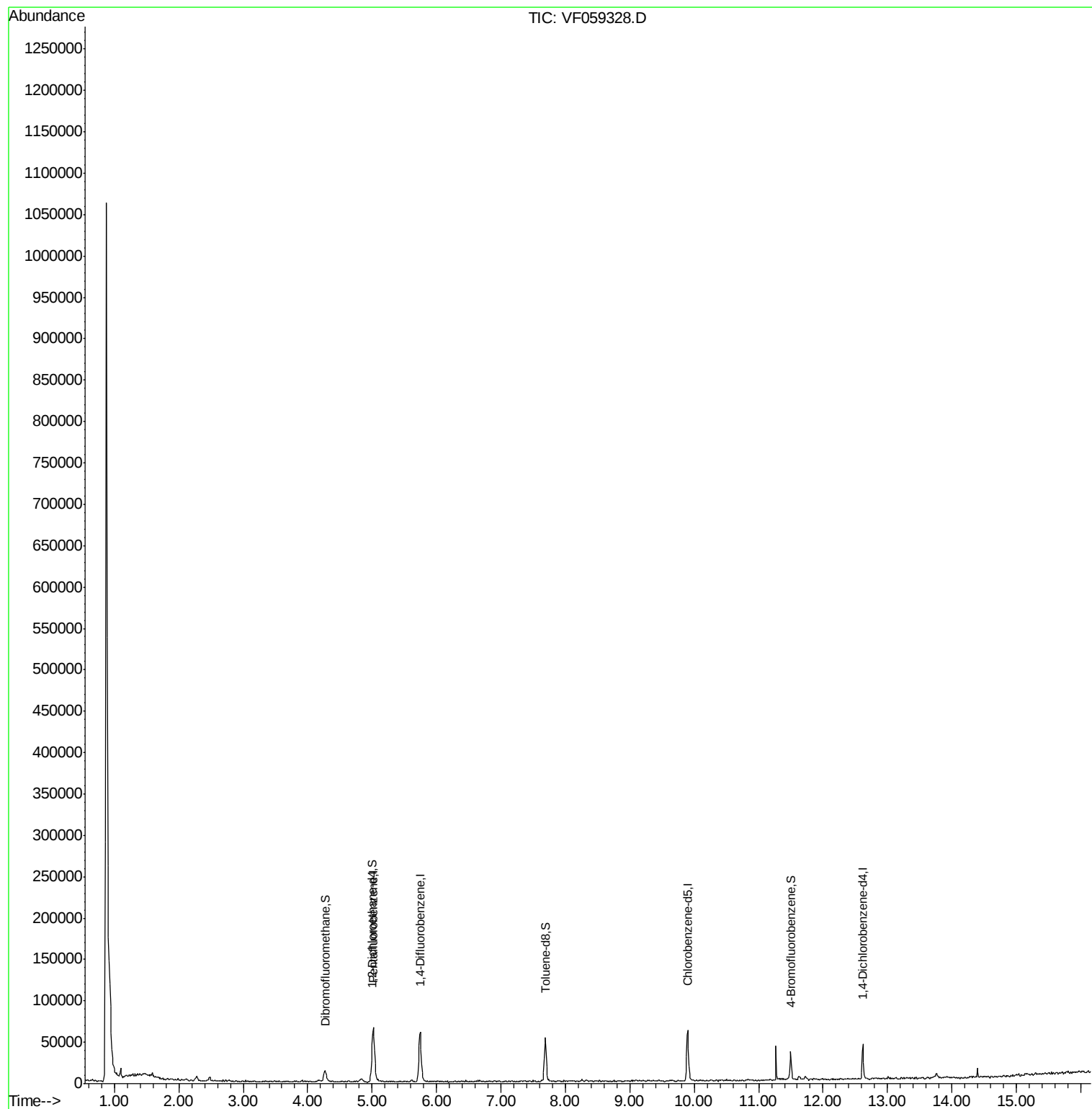
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

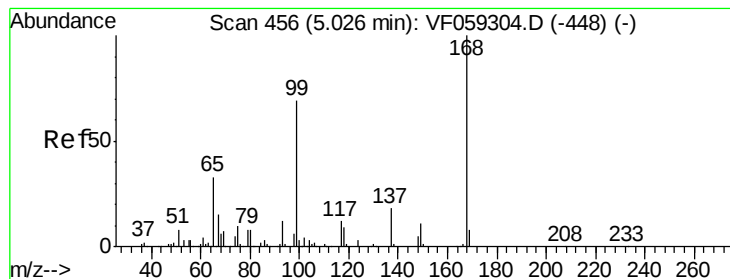
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_F  
ClientSampleId :  
A0C10-01

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F062518S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 26 08:45:17 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Instrument :

MSVOA\_F

ClientSampleId :

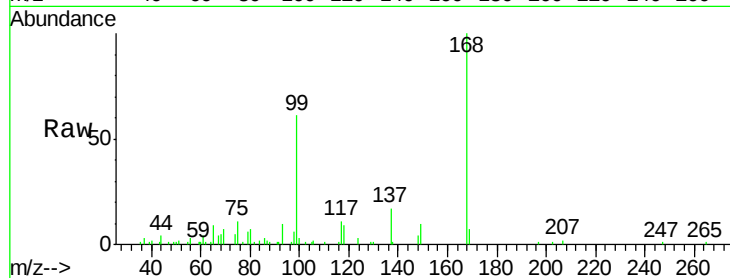
A0C10-01

Tot Ion:168 Resp: 58893

Ion Ratio Lower Upper

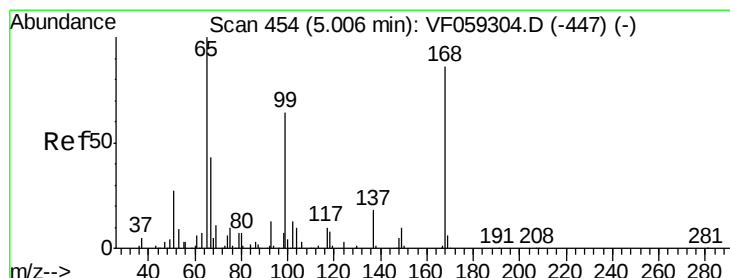
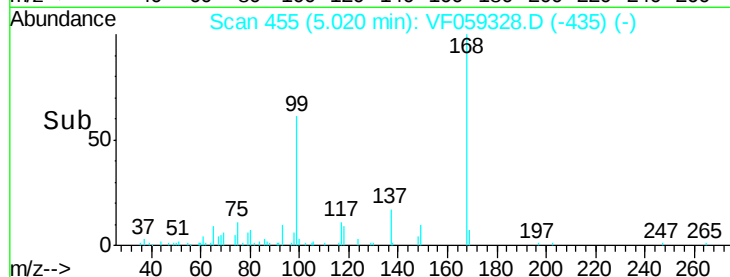
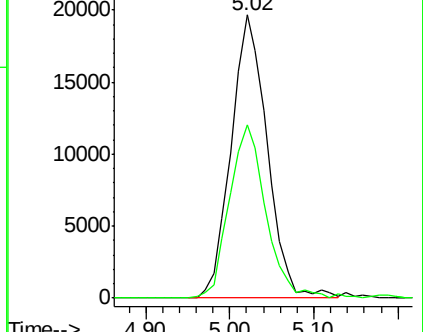
168 100

99 61.2 54.9 82.3



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: 11.64 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF059328.D

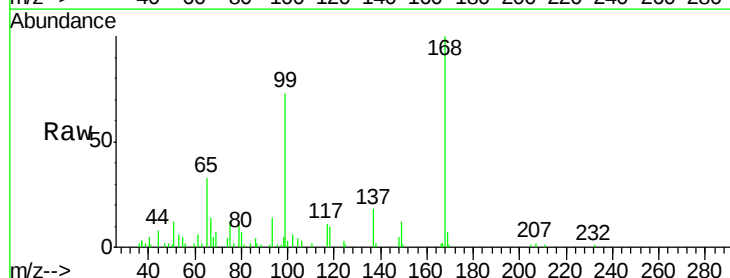
Acq: 26 Jun 2018 20:28

Tgt Ion: 65 Resp: 8854

Ion Ratio Lower Upper

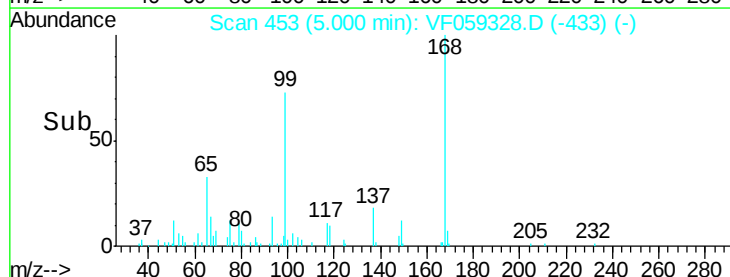
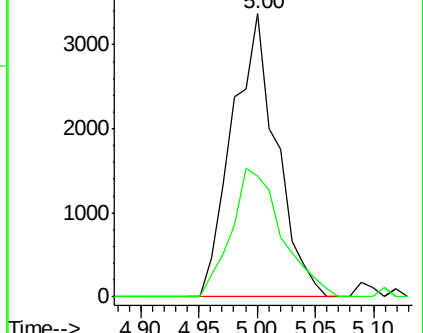
65 100

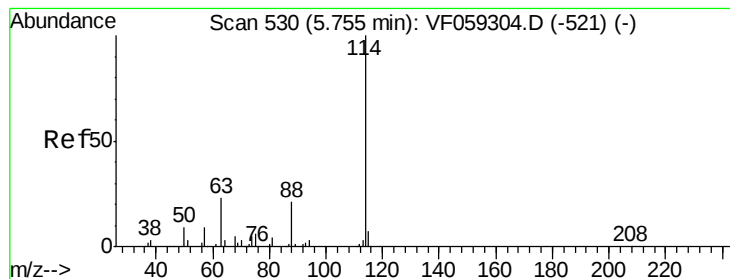
67 42.9 0.0 96.8



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: 5.75 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Instrument :

MSVOA\_F

ClientSampleId :

A0C10-01

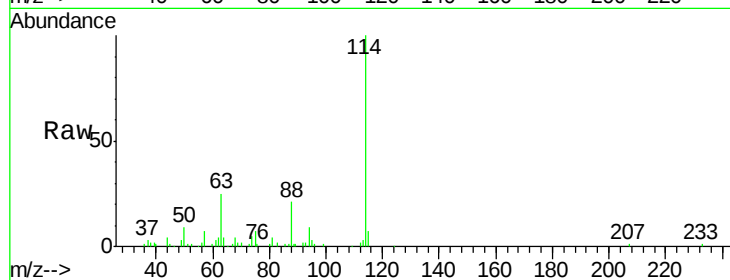
Tot Ion:114 Resp: 66237

Ion Ratio Lower Upper

114 100

63 24.7 0.0 45.8

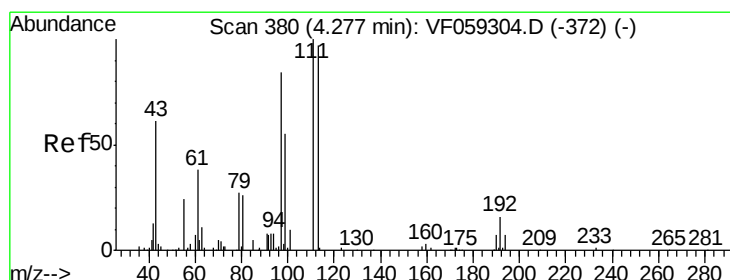
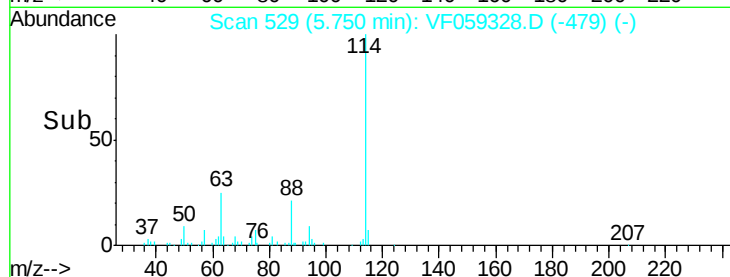
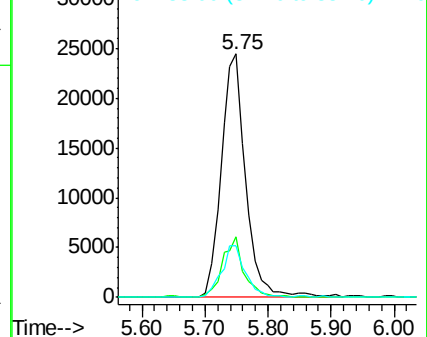
88 21.0 0.0 41.2



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: 25.19 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.00 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

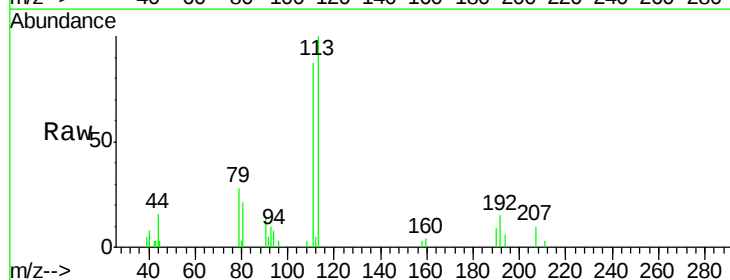
Tgt Ion:113 Resp: 12190

Ion Ratio Lower Upper

113 100

111 87.2 82.1 123.1

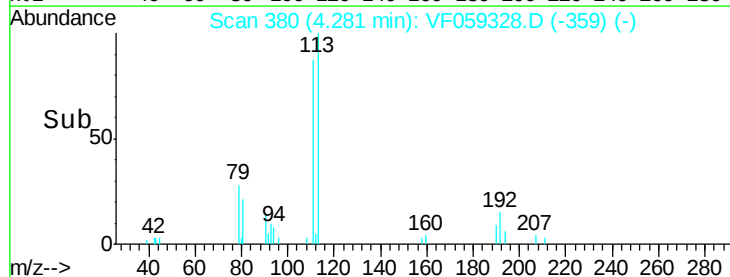
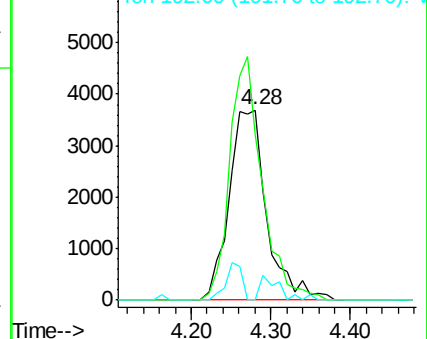
192 0.0 13.0 19.6#



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: 35.94 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

Instrument :

MSVOA\_F

ClientSampleId :

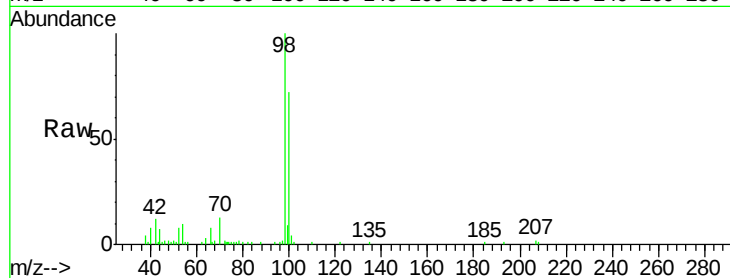
A0C10-01

Tot Ion: 98 Resp: 43065

Ion Ratio Lower Upper

98 100

100 72.5 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.69

20000

15000

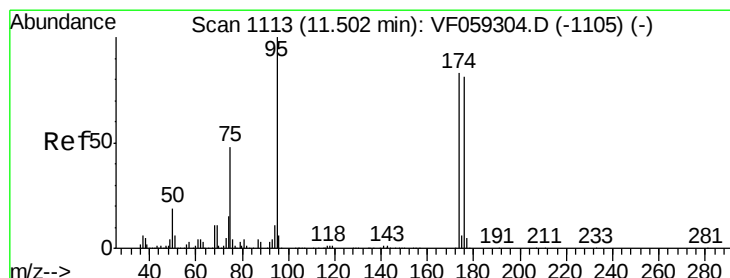
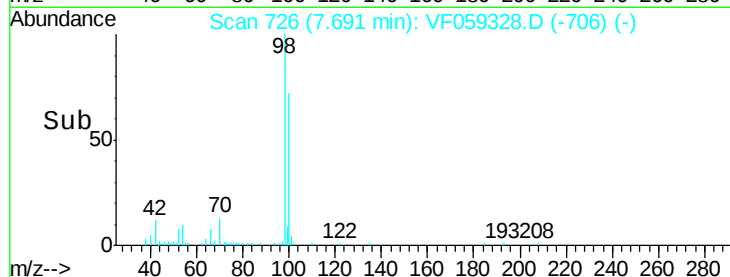
10000

5000

0

Time-->

7.60 7.70 7.80 7.90



#62

4-Bromofluorobenzene

Concen: 16.38 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059328.D

Acq: 26 Jun 2018 20:28

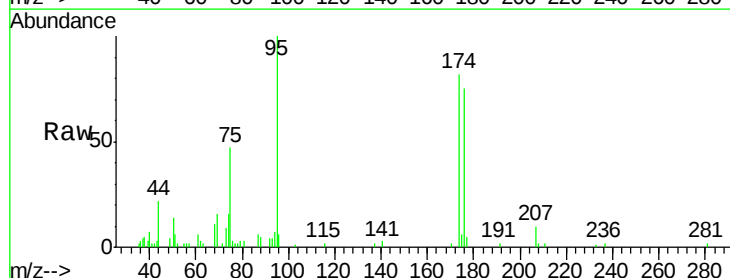
Tgt Ion: 95 Resp: 11071

Ion Ratio Lower Upper

95 100

174 81.9 0.0 165.2

176 75.4 0.0 161.0



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

11.50

8000

6000

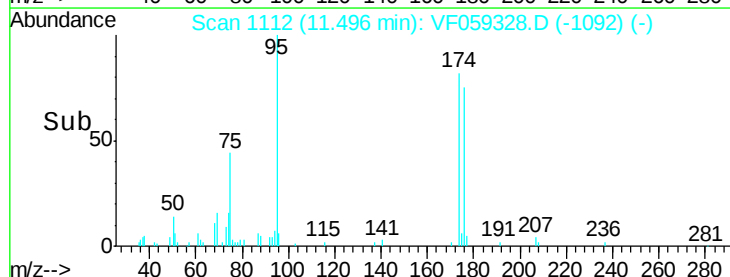
4000

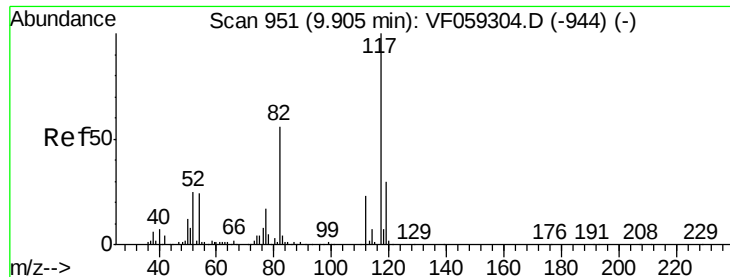
2000

0

Time-->

11.40 11.50 11.60

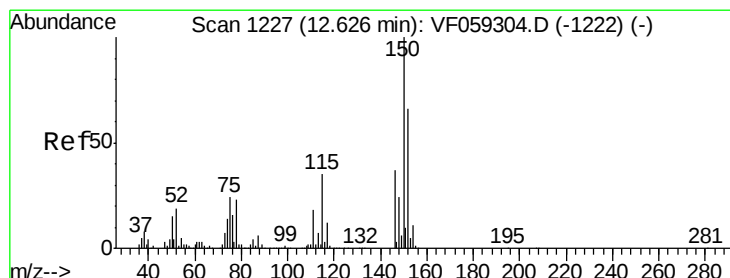
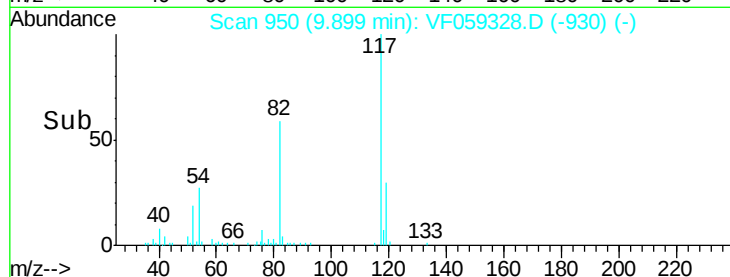
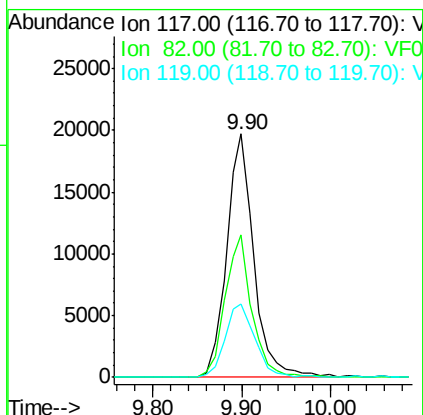
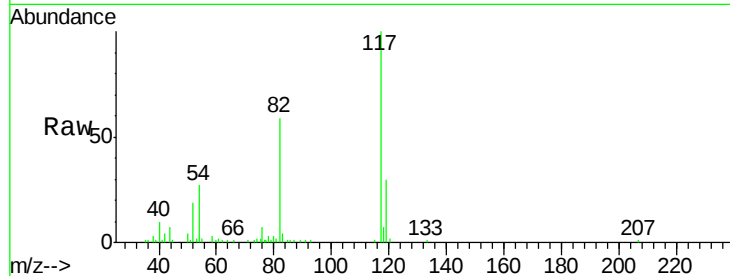




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.90 min Scan# 950  
Delta R.T. -0.01 min  
Lab File: VF059328.D  
Acq: 26 Jun 2018 20:28

Instrument :  
MSVOA\_F  
ClientSampleId :  
A0C10-01

Tot Ion:117 Resp: 42306  
Ion Ratio Lower Upper  
117 100  
82 58.8 44.6 66.8  
119 30.2 24.1 36.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.62 min Scan# 1226  
Delta R.T. -0.01 min  
Lab File: VF059328.D  
Acq: 26 Jun 2018 20:28

Tgt Ion:152 Resp: 10538  
Ion Ratio Lower Upper  
152 100  
115 65.6 27.1 81.3  
150 167.3 0.0 305.2

