

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\  
 Data File : VF059348.D  
 Acq On : 27 Jun 2018 19:27  
 Operator : VA/AP  
 Sample : J3677-08  
 Misc : 5.03g/5mL/MSVOA-F/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 147-149-B1(6-8)

Quant Time: Jun 28 02:25:16 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      | 5.04  | 168  | 3651     | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 5.76  | 114  | 4354     | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 2687     | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 766      | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |       |
|-----------------------------|--------|-----|----------|-------|--------|-------|
| 33) 1,2-Dichloroethane-d4   | 5.00   | 65  | 1121     | 23.76 | ug/l   | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 47.52% |       |
| 35) Dibromofluoromethane    | 4.26   | 113 | 444      | 13.96 | ug/l   | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 27.92% |       |
| 50) Toluene-d8              | 7.70   | 98  | 3242     | 41.16 | ug/l   | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 82.32% |       |
| 62) 4-Bromofluorobenzene    | 11.51  | 95  | 977      | 21.99 | ug/l   | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 43.98% |       |

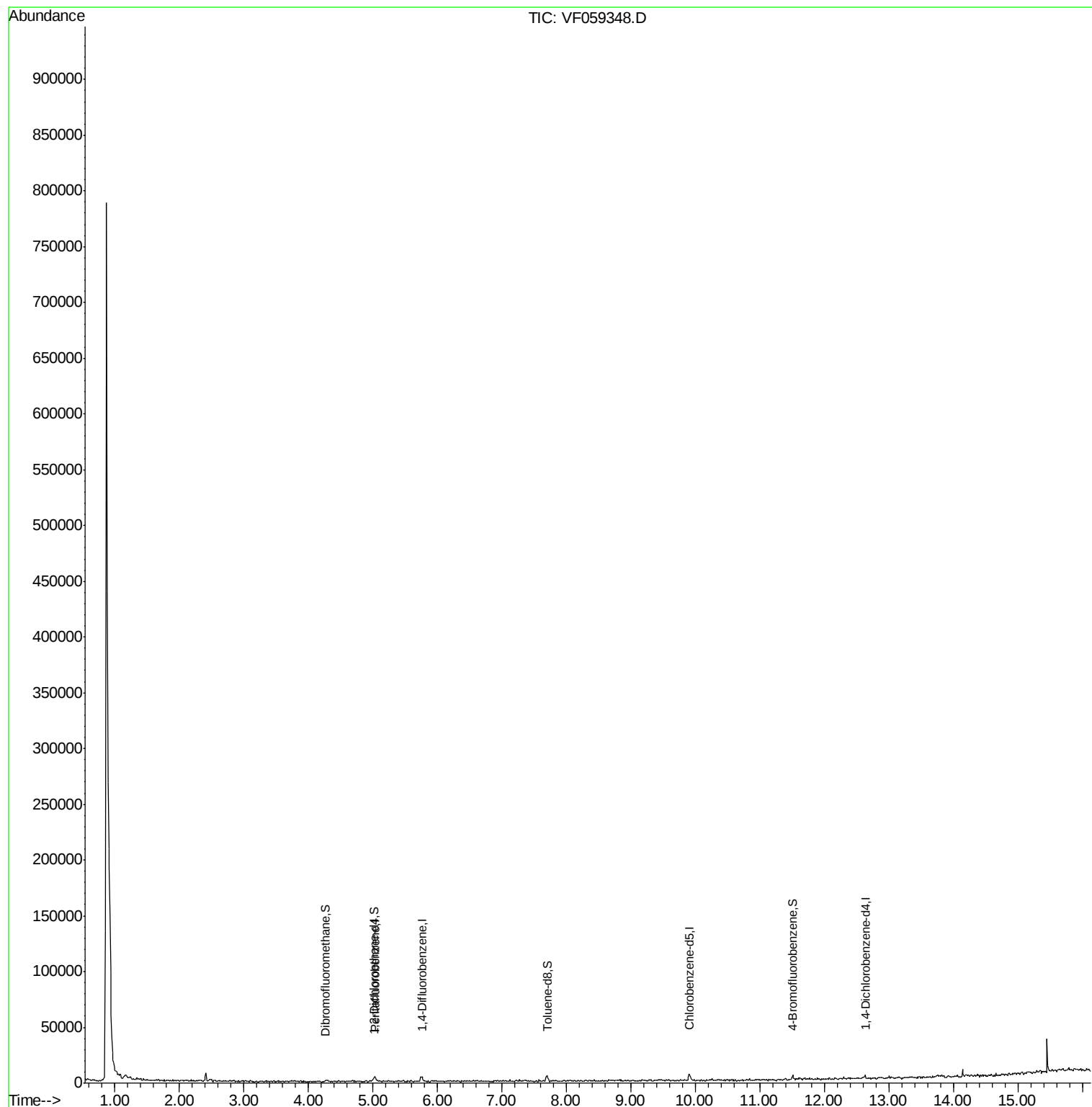
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

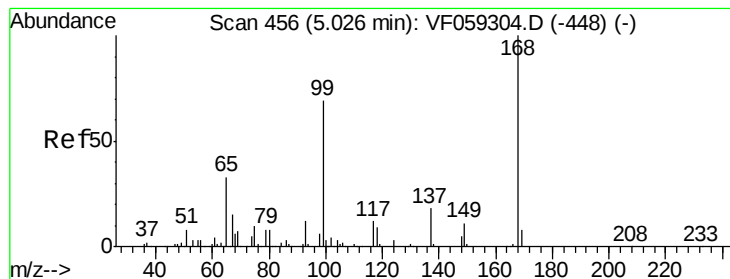
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.04 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA\_F

ClientSampleId :

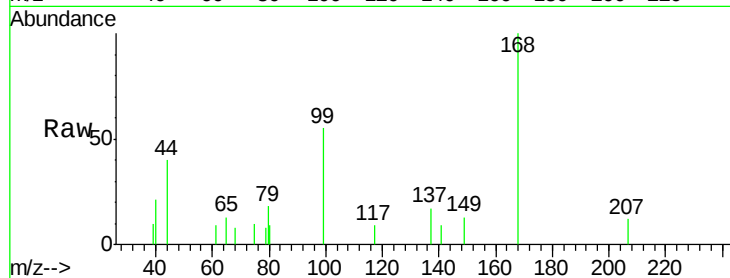
147-149-B1(6-8)

Tot Ion:168 Resp: 3651

Ion Ratio Lower Upper

168 100

99 55.1 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

5.04

1500

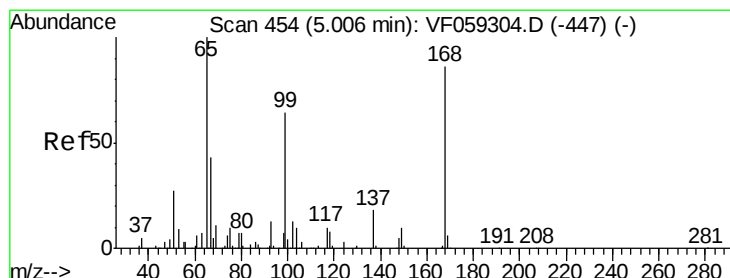
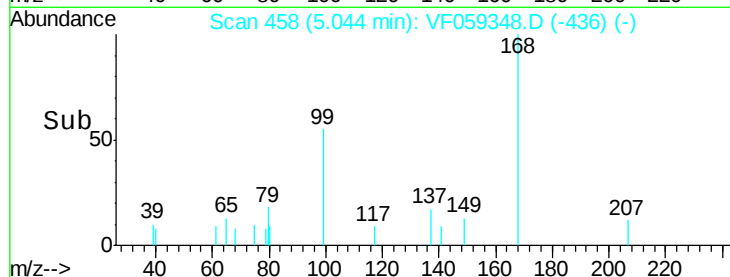
1000

500

0

Time-->

4.95 5.00 5.05 5.10



#33

1,2-Dichloroethane-d4

Concen: 23.76 ug/l

RT: 5.00 min Scan# 454

Delta R.T. -0.00 min

Lab File: VF059348.D

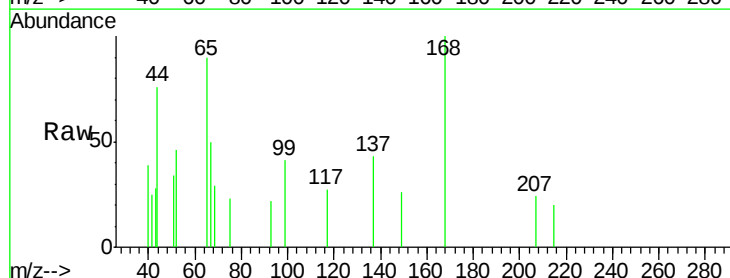
Acq: 27 Jun 2018 19:27

Tgt Ion: 65 Resp: 1121

Ion Ratio Lower Upper

65 100

67 56.2 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.00

500

400

300

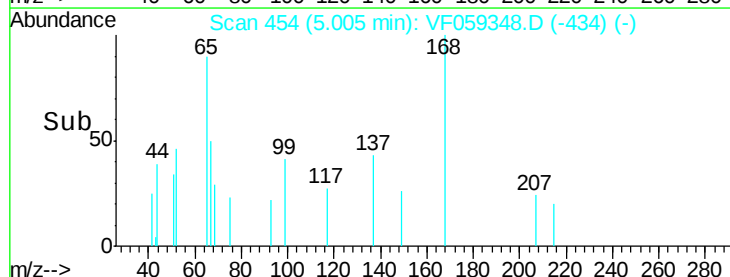
200

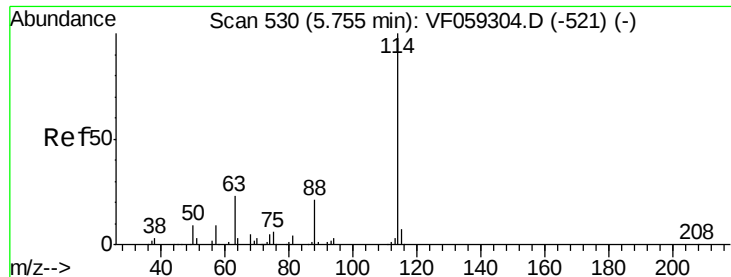
100

0

Time-->

4.95 5.00 5.05 5.10





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 531

Delta R.T. 0.01 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA\_F

ClientSampleId :

147-149-B1(6-8)

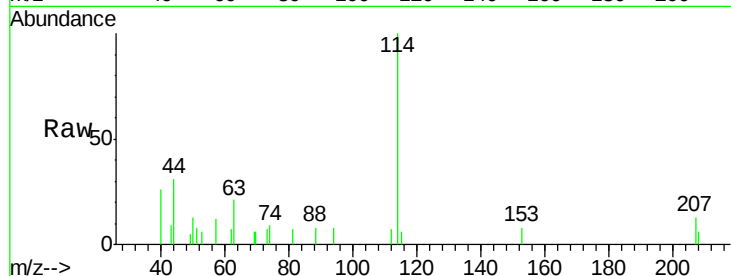
Tot Ion:114 Resp: 4354

Ion Ratio Lower Upper

114 100

63 21.5 0.0 45.8

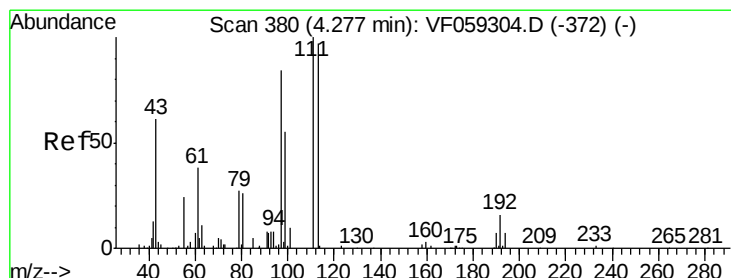
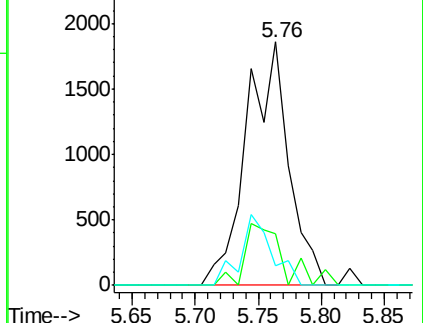
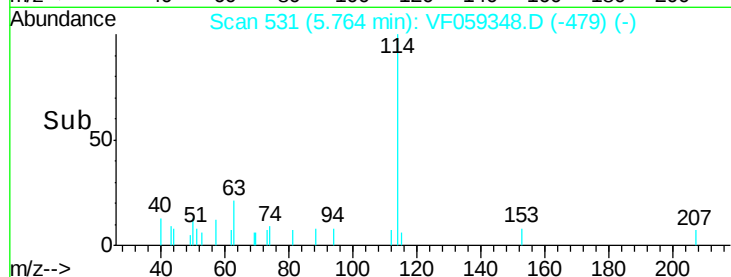
88 8.2 0.0 41.2



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: 13.96 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

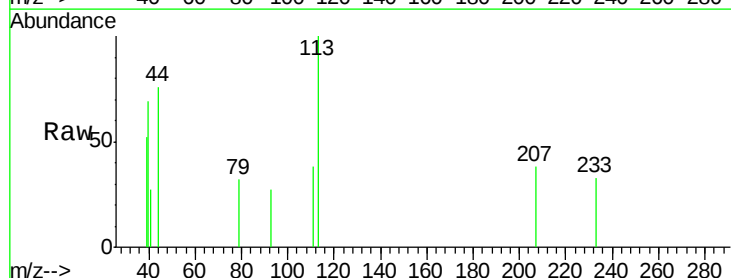
Tgt Ion:113 Resp: 444

Ion Ratio Lower Upper

113 100

111 38.3 82.1 123.1#

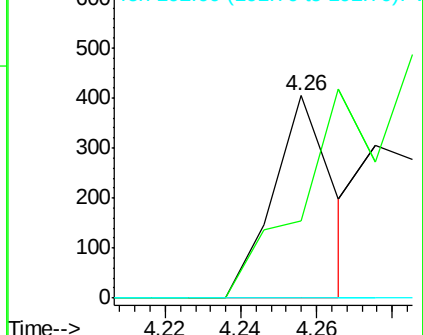
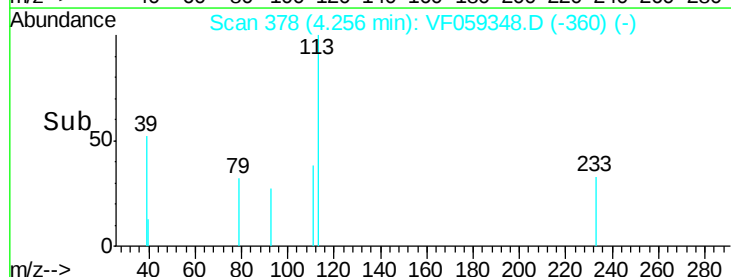
192 0.0 13.0 19.6#



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: 41.16 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.00 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

Instrument :

MSVOA\_F

ClientSampleId :

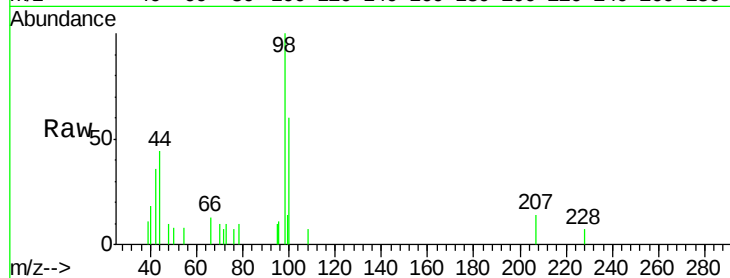
147-149-B1(6-8)

Tot Ion: 98 Resp: 3242

Ion Ratio Lower Upper

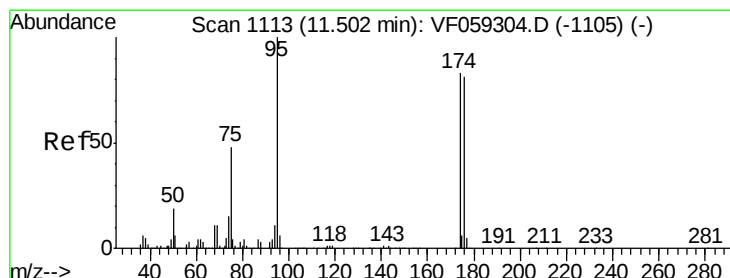
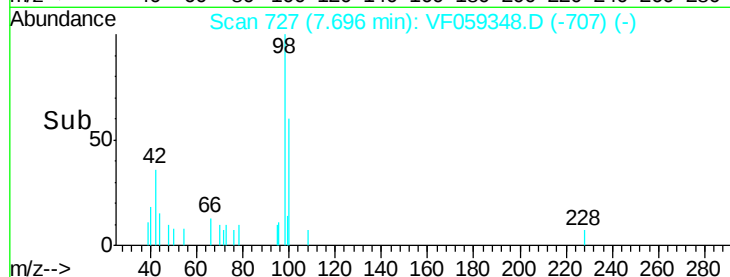
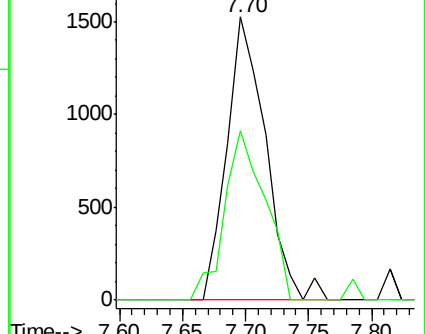
98 100

100 60.0 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#62

4-Bromofluorobenzene

Concen: 21.99 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF059348.D

Acq: 27 Jun 2018 19:27

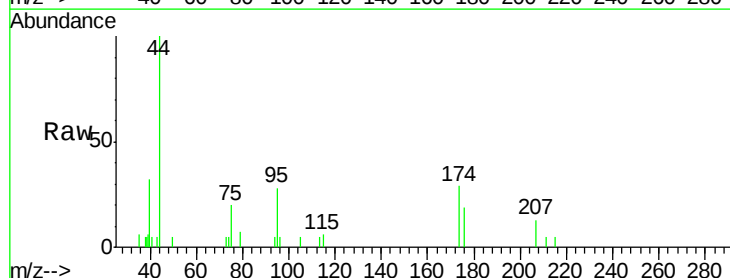
Tgt Ion: 95 Resp: 977

Ion Ratio Lower Upper

95 100

174 102.7 0.0 165.2

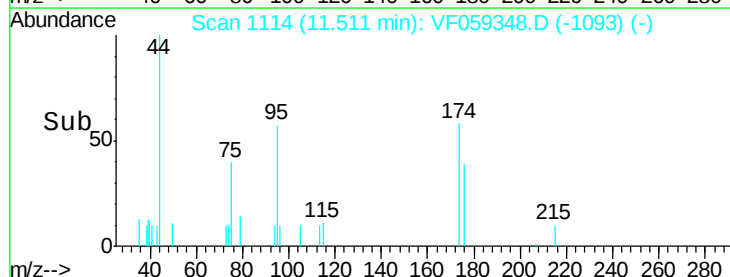
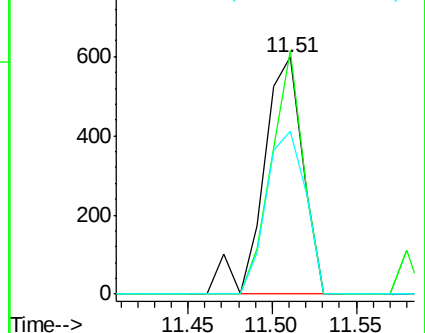
176 68.6 0.0 161.0

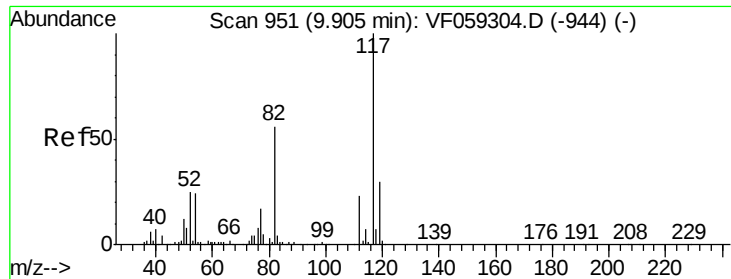


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

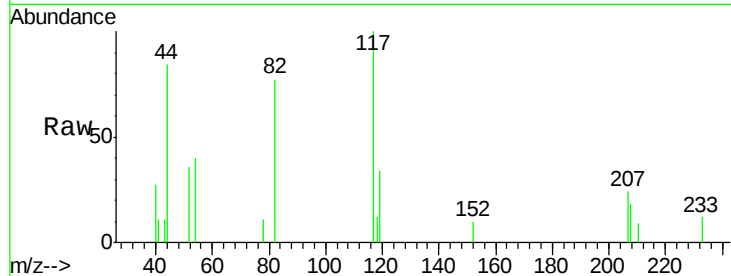




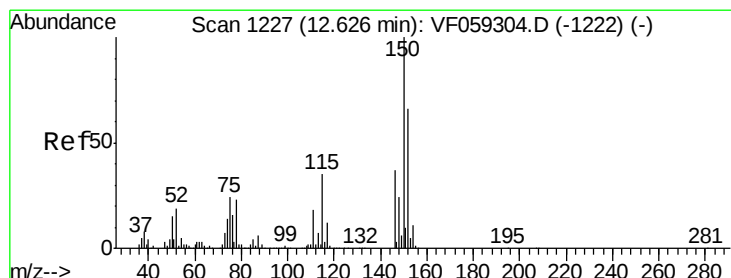
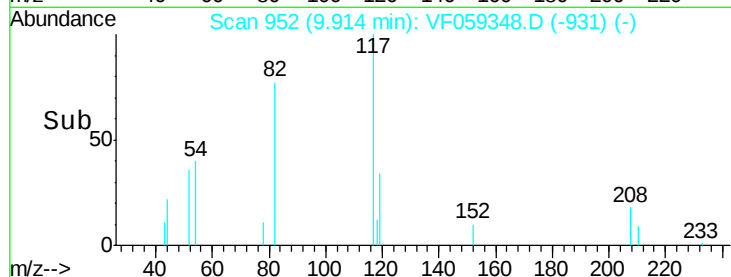
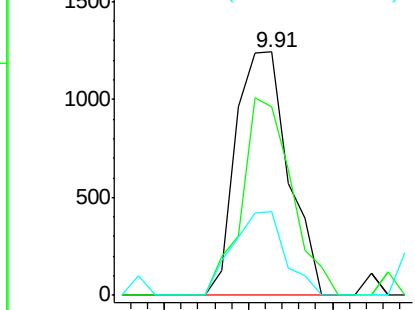
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.91 min Scan# 952  
Delta R.T. 0.01 min  
Lab File: VF059348.D  
Acq: 27 Jun 2018 19:27

Instrument :  
MSVOA\_F  
ClientSampleId :  
147-149-B1(6-8)

Tot Ion:117 Resp: 2687  
Ion Ratio Lower Upper  
117 100  
82 77.3 44.6 66.8#  
119 34.4 24.1 36.1

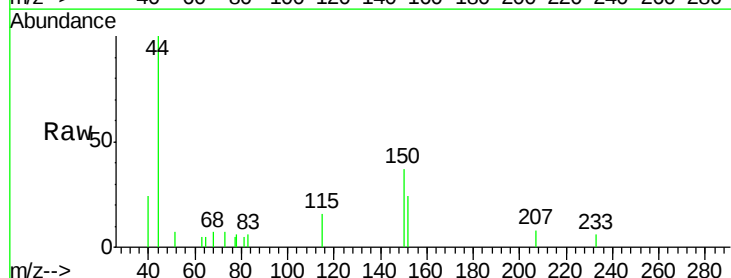


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.62 min Scan# 1227  
Delta R.T. -0.00 min  
Lab File: VF059348.D  
Acq: 27 Jun 2018 19:27

Tgt Ion:152 Resp: 766  
Ion Ratio Lower Upper  
152 100  
115 66.1 27.1 81.3  
150 153.6 0.0 305.2



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

