

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080318\  
 Data File : VF059854.D  
 Acq On : 3 Aug 2018 22:19  
 Operator : VA/AP  
 Sample : J4285-17RE  
 Misc : 3.82g/5mL/MSVOA F/SOIL  
 ALS Vial : 98 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 KG-PIT-5RE

Quant Time: Aug 04 04:29:33 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 15:23:22 2018  
 Response via : Initial Calibration

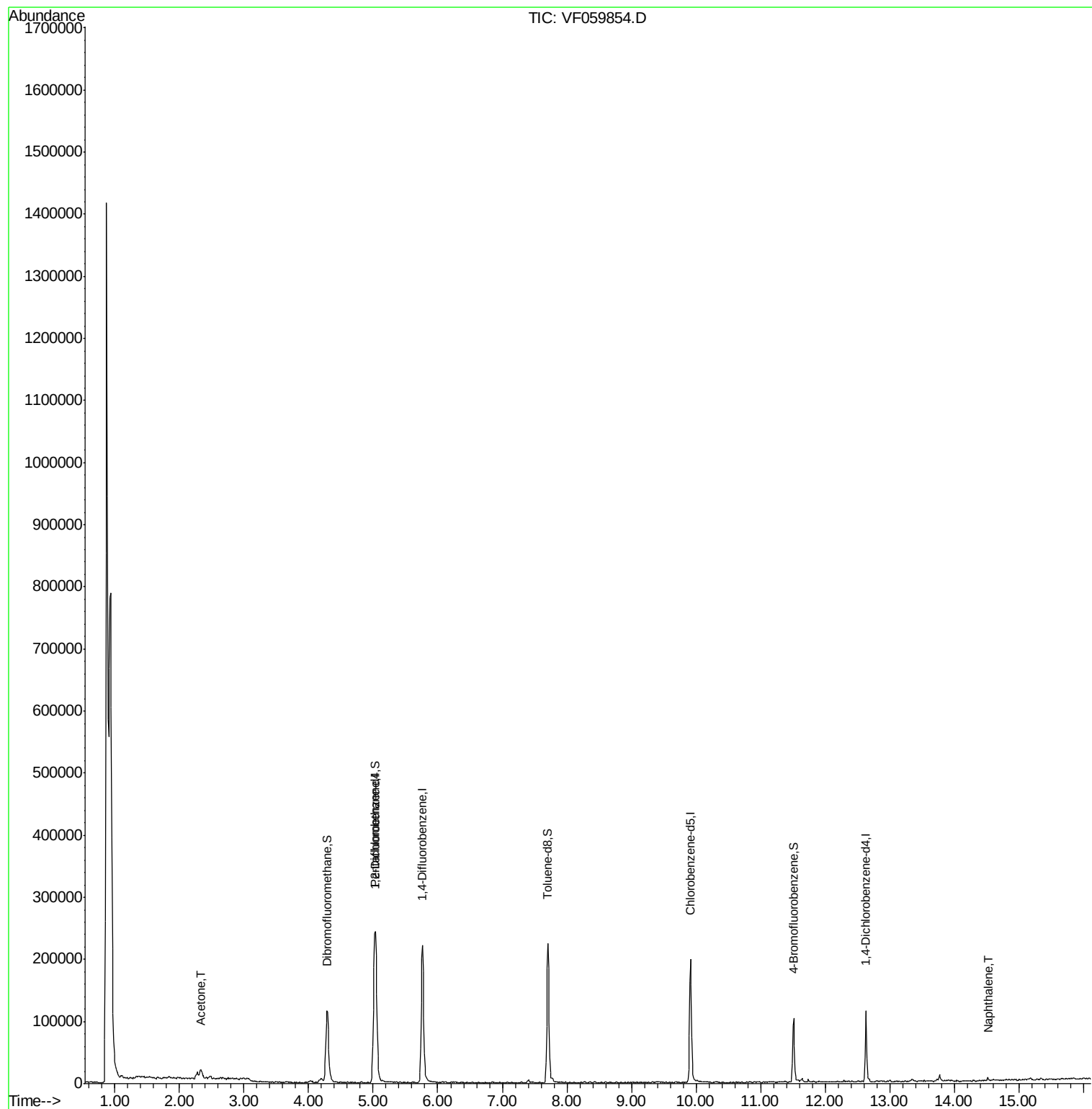
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 5.04  | 168  | 155735   | 50.00 | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene     | 5.76  | 114  | 220600   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 9.91  | 117  | 131583   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.63 | 152  | 29313    | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.02  | 65   | 122614   | 43.81 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 87.62% |          |
| 35) Dibromofluoromethane    | 4.30  | 113  | 106145   | 46.33 | ug/l   | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 92.66% |          |
| 50) Toluene-d8              | 7.71  | 98   | 178775   | 33.46 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 66.92% |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 37576    | 12.70 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 25.40% |          |
| Target Compounds            |       |      |          |       |        |          |
| 16) Acetone                 | 2.33  | 43   | 15225    | 30.24 | ug/l   | 99       |
| 95) Naphthalene             | 14.52 | 128  | 2011     | 1.59  | ug/l # | 91       |

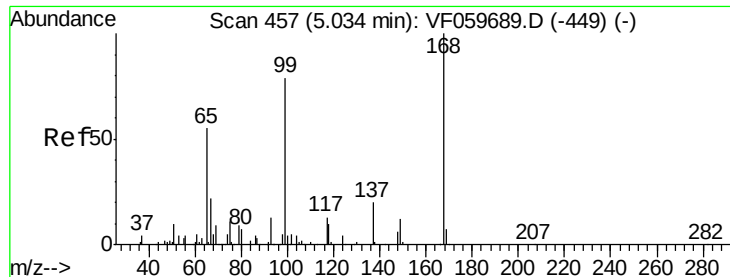
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F073018S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 31 15:23:22 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.01 min

Lab File: VF059854.D

Acq: 3 Aug 2018 22:19

Instrument :

MSVOA\_F

ClientSampleId :

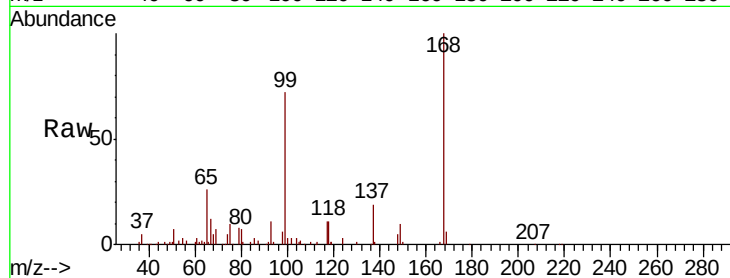
KG-PIT-5RE

Tot Ion:168 Resp: 155735

Ion Ratio Lower Upper

168 100

99 71.6 63.3 94.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

60000

50000

40000

30000

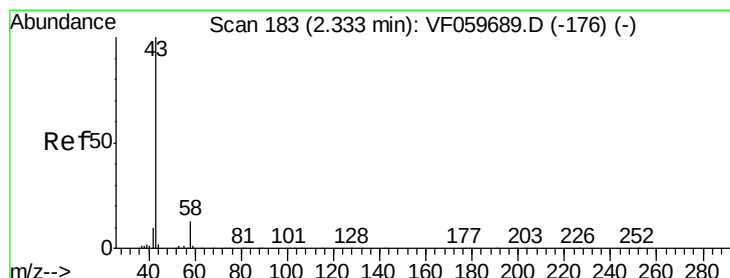
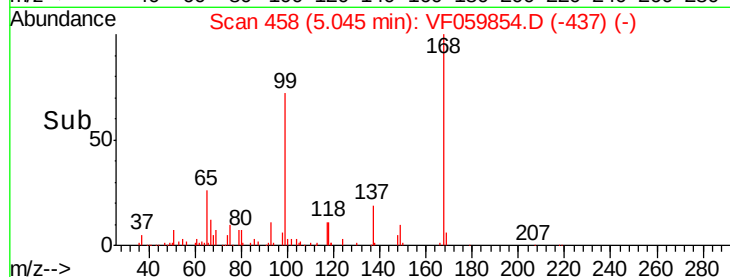
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#16

Acetone

Concen: 30.24 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.00 min

Lab File: VF059854.D

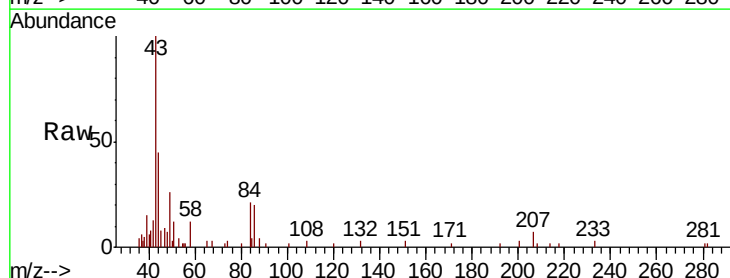
Acq: 3 Aug 2018 22:19

Tgt Ion: 43 Resp: 15225

Ion Ratio Lower Upper

43 100

58 12.2 10.1 15.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.33

6000

5000

4000

3000

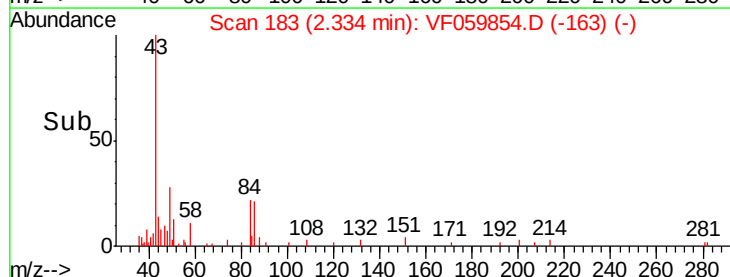
2000

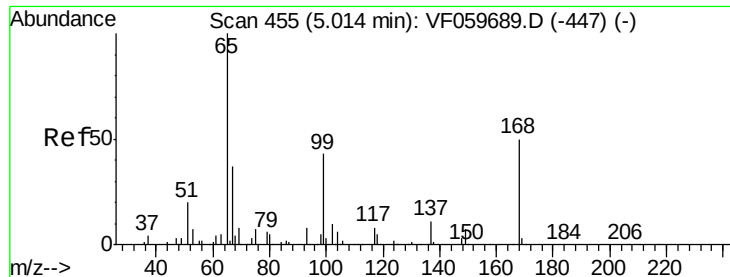
1000

0

Time-->

2.30 2.40

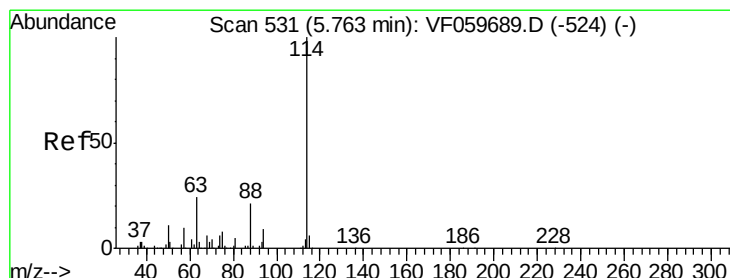
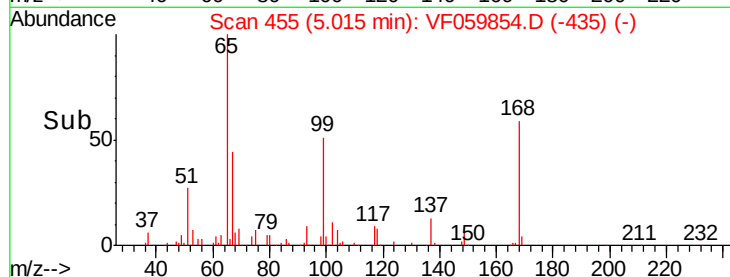
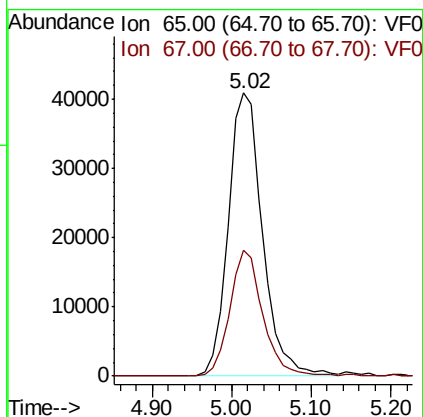
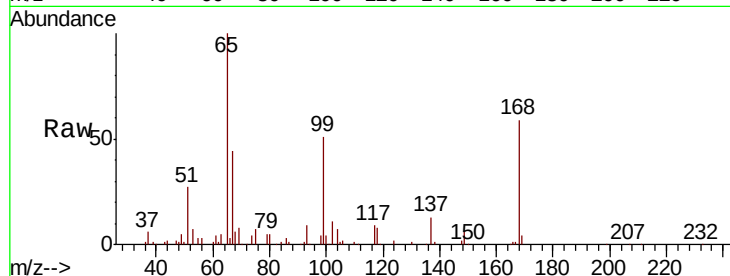




#33  
 1,2-Dichloroethane-d4  
 Concen: 43.81 ug/l  
 RT: 5.02 min Scan# 455  
 Delta R.T. 0.00 min  
 Lab File: VF059854.D  
 Acq: 3 Aug 2018 22:19

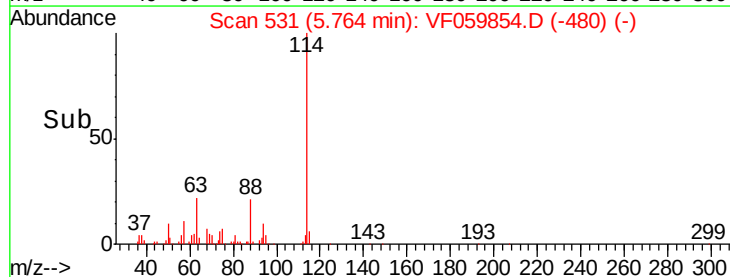
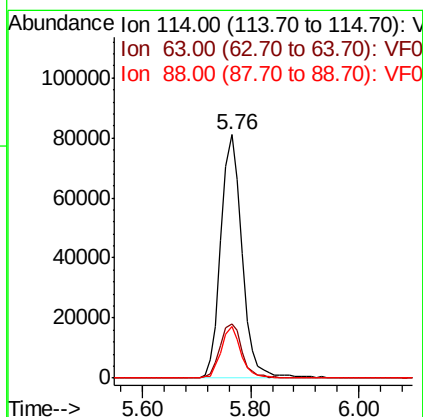
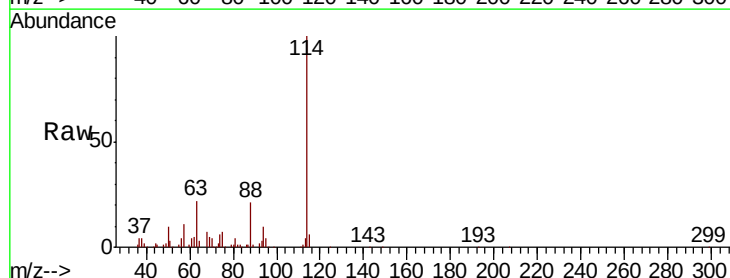
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 KG-PIT-5RE

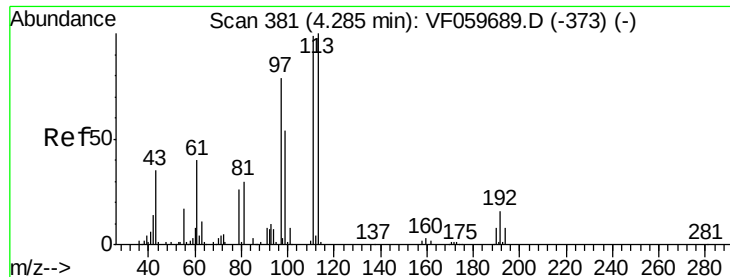
Tot Ion: 65 Resp: 122614  
 Ion Ratio Lower Upper  
 65 100  
 67 44.3 0.0 84.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.76 min Scan# 531  
 Delta R.T. 0.00 min  
 Lab File: VF059854.D  
 Acq: 3 Aug 2018 22:19

Tgt Ion: 114 Resp: 220600  
 Ion Ratio Lower Upper  
 114 100  
 63 22.1 0.0 47.4  
 88 21.1 0.0 41.2





#35

Dibromofluoromethane

Concen: 46.33 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.01 min

Lab File: VF059854.D

Acq: 3 Aug 2018 22:19

Instrument :

MSVOA\_F

ClientSampleId :

KG-PIT-5RE

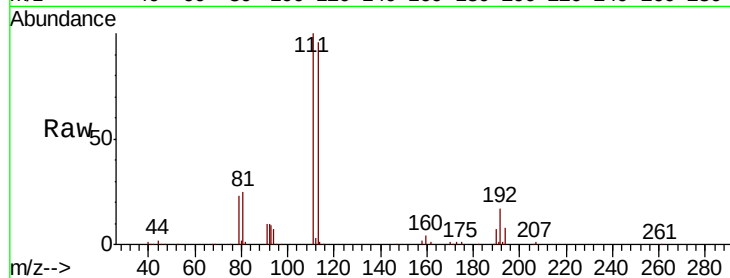
Tot Ion:113 Resp: 106145

Ion Ratio Lower Upper

113 100

111 103.9 79.0 118.4

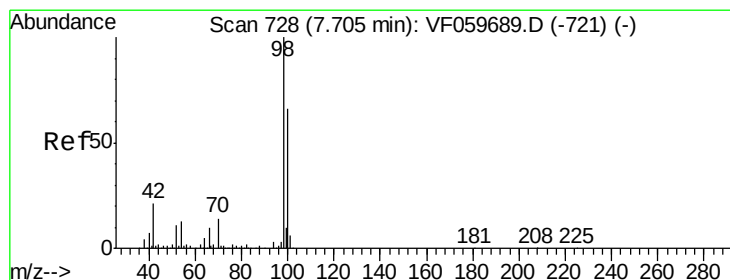
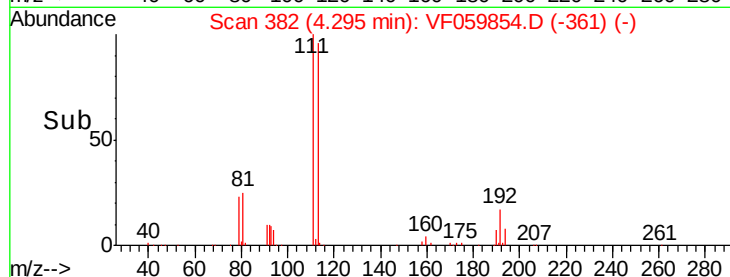
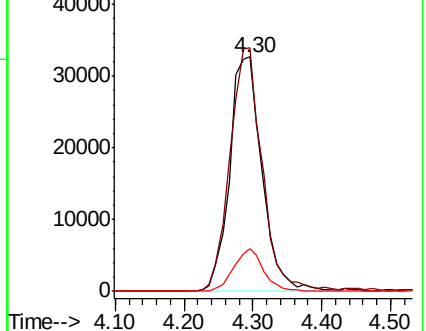
192 18.3 13.2 19.8



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: 33.46 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.00 min

Lab File: VF059854.D

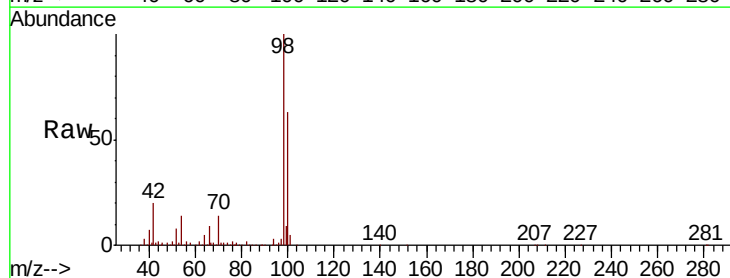
Acq: 3 Aug 2018 22:19

Tgt Ion: 98 Resp: 178775

Ion Ratio Lower Upper

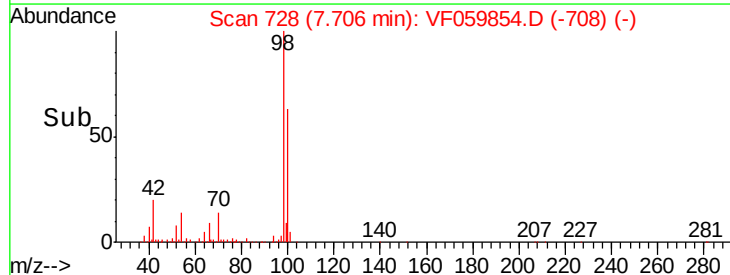
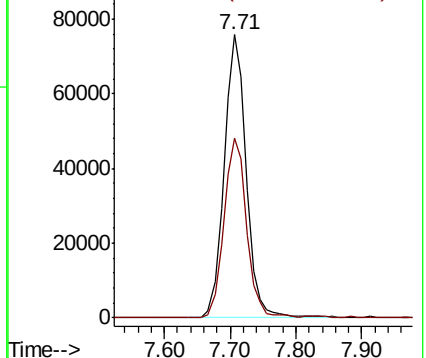
98 100

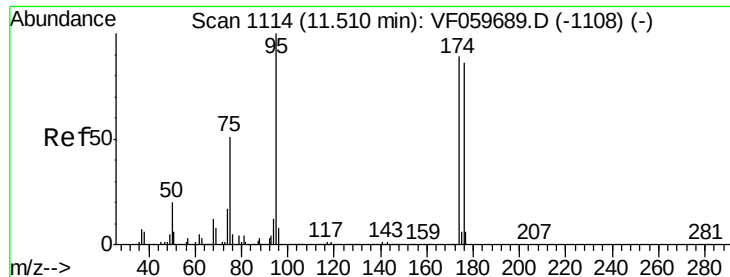
100 63.4 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF





#62

4-Bromofluorobenzene

Concen: 12.70 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF059854.D

Acq: 3 Aug 2018 22:19

Instrument :

MSVOA\_F

ClientSampleId :

KG-PIT-5RE

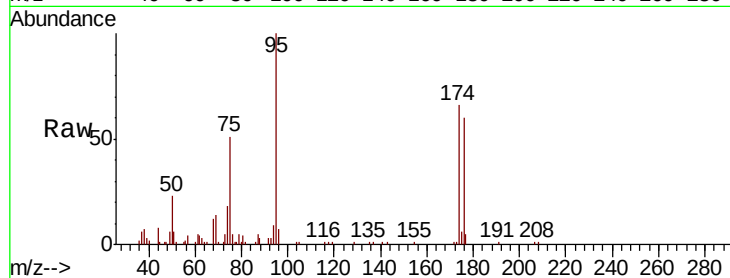
Tot Ion: 95 Resp: 37576

Ion Ratio Lower Upper

95 100

174 66.0 0.0 178.4

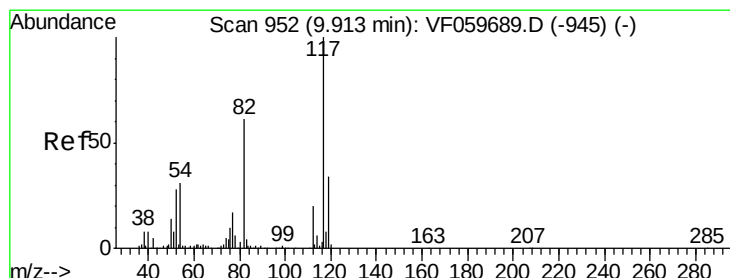
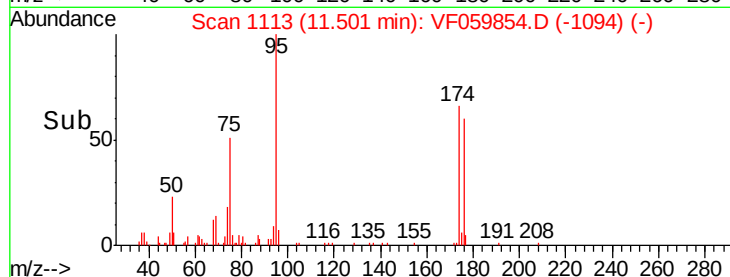
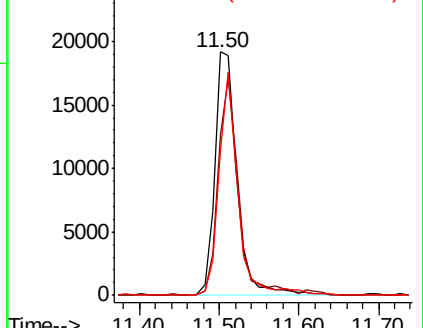
176 59.7 0.0 173.0



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. 0.00 min

Lab File: VF059854.D

Acq: 3 Aug 2018 22:19

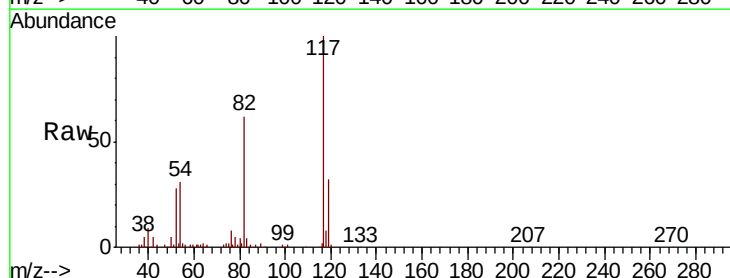
Tgt Ion: 117 Resp: 131583

Ion Ratio Lower Upper

117 100

82 61.8 49.0 73.4

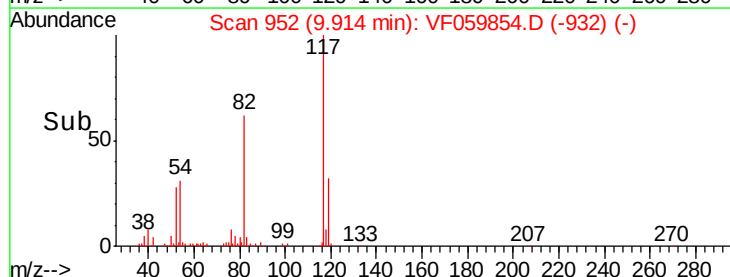
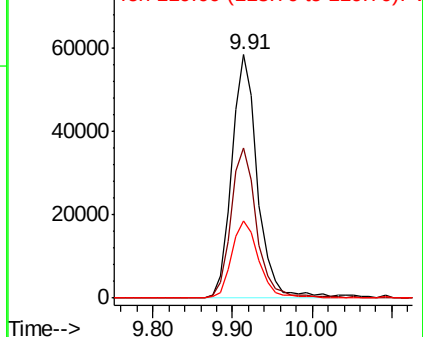
119 31.9 27.3 40.9

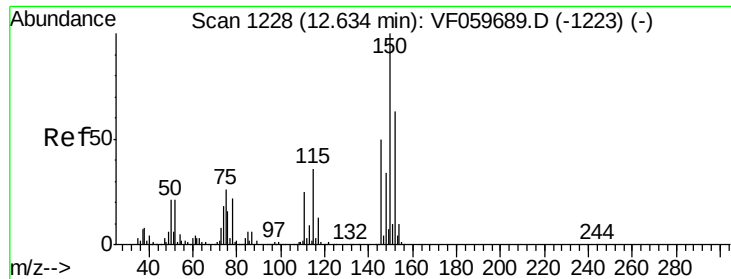


Abundance Ion 117.00 (116.70 to 117.70): V

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: 12.63 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VF059854.D

Acq: 3 Aug 2018 22:19

Instrument :

MSVOA\_F

ClientSampleId :

KG-PIT-5RE

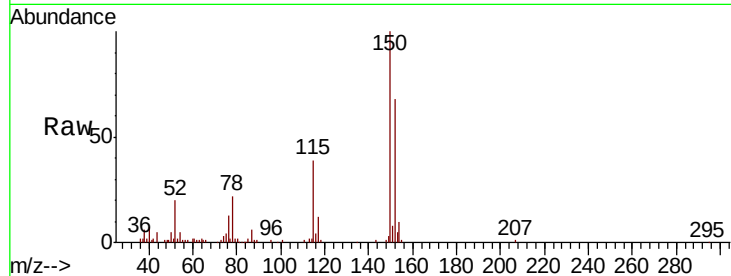
Tot Ion:152 Resp: 29313

Ion Ratio Lower Upper

152 100

115 57.4 28.2 84.6

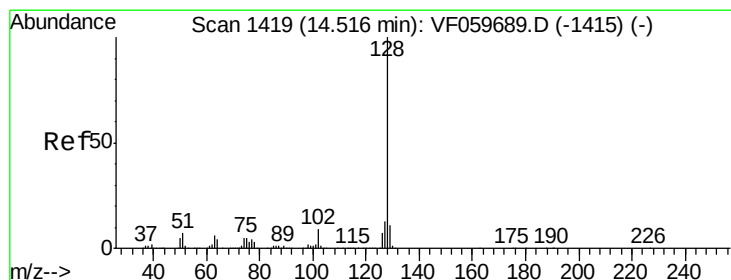
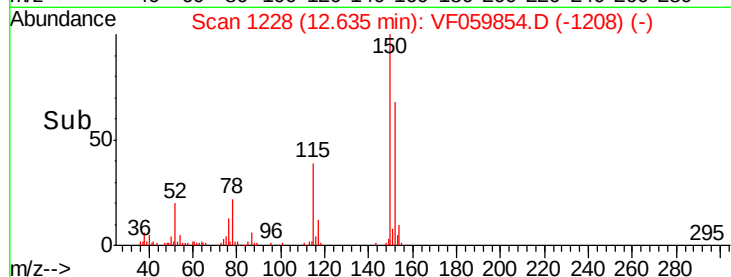
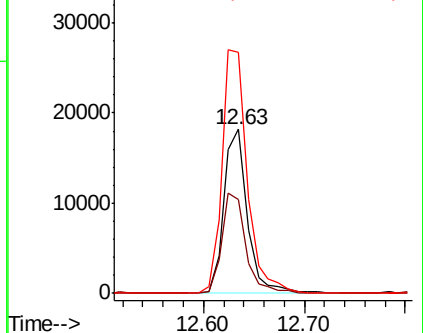
150 147.6 0.0 316.2



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



#95

Naphthalene

Concen: 1.59 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. 0.00 min

Lab File: VF059854.D

Acq: 3 Aug 2018 22:19

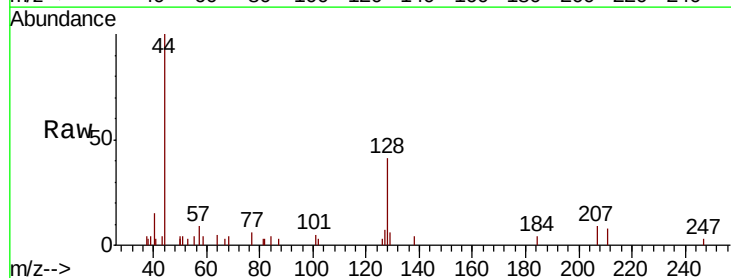
Tgt Ion:128 Resp: 2011

Ion Ratio Lower Upper

128 100

127 15.8 10.0 15.0#

129 14.2 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

