

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122418\  
 Data File : VF061161.D  
 Acq On : 24 Dec 2018 13:17  
 Operator : VA/AP  
 Sample : J6389-04  
 Misc : 6.50g/5mL/MSVOA-F/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P001-SS012-1824-01

Quant Time: Dec 25 05:02:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 00:56:59 2018  
 Response via : Initial Calibration

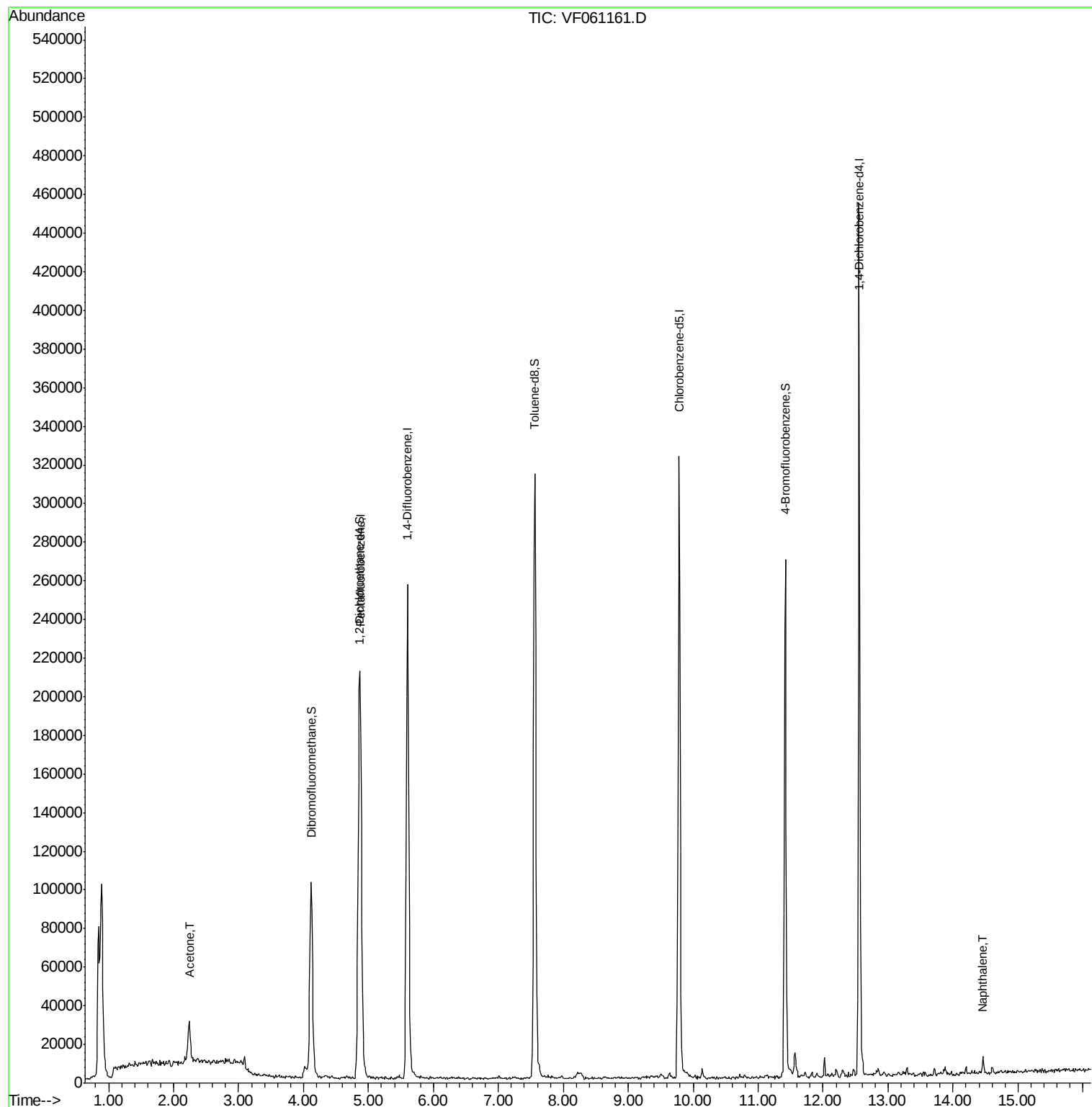
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene       | 4.88  | 168  | 157615   | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.60  | 114  | 280796   | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 9.78  | 117  | 232330   | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.55 | 152  | 104530   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 4.85  | 65   | 85734    | 42.29  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 84.58% |          |
| 35) Dibromofluoromethane    | 4.12  | 113  | 98364    | 43.73  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 87.46% |          |
| 50) Toluene-d8              | 7.56  | 98   | 264666   | 41.52  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 83.04% |          |
| 62) 4-Bromofluorobenzene    | 11.42 | 95   | 107293   | 36.51  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 73.02% |          |
| Target Compounds            |       |      |          |        |        |          |
| 16) Acetone                 | 2.24  | 43   | 38762    | 95.647 | ug/l # | 92       |
| 95) Naphthalene             | 14.46 | 128  | 4959     | 1.105  | ug/l # | 92       |

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

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Quant Title : SW846 8260  
QLast Update : Thu Dec 20 00:56:59 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

Instrument :

MSVOA\_F

ClientSampleId :

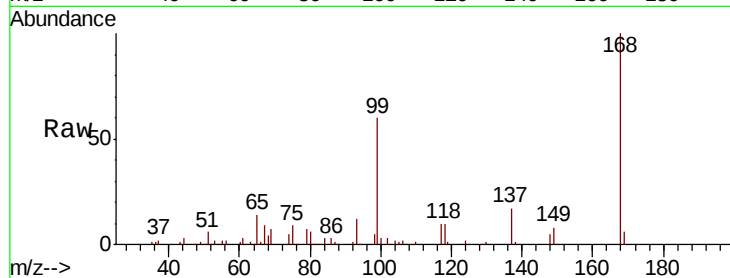
P001-SS012-1824-01

Tot Ion:168 Resp: 157615

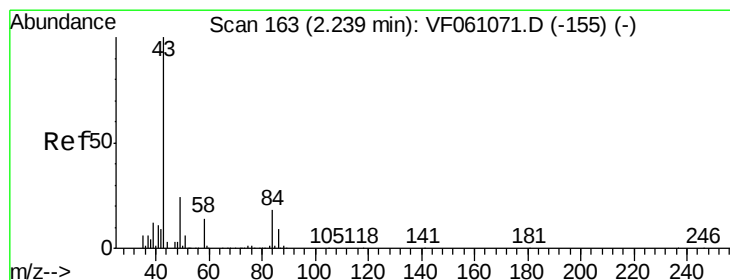
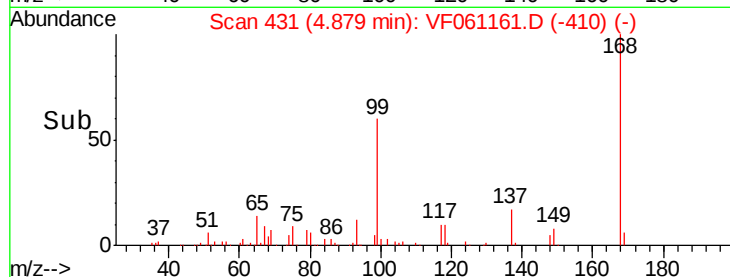
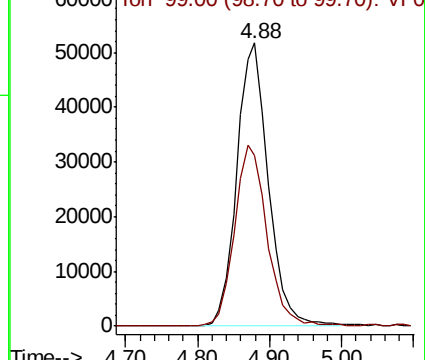
Ion Ratio Lower Upper

168 100

99 60.3 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#16

Acetone

Concen: 95.647 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061161.D

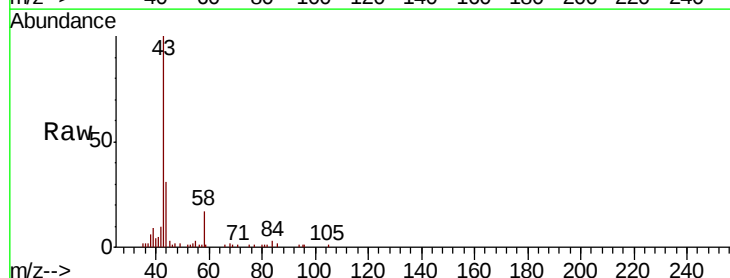
Acq: 24 Dec 2018 13:17

Tgt Ion: 43 Resp: 38762

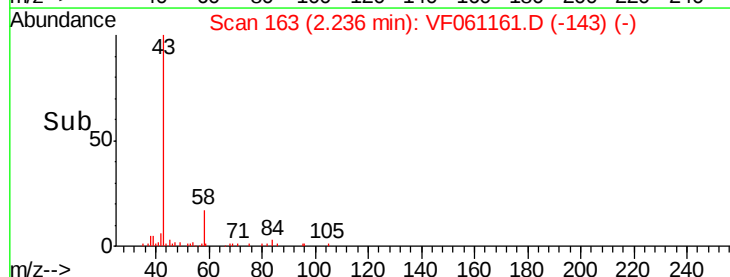
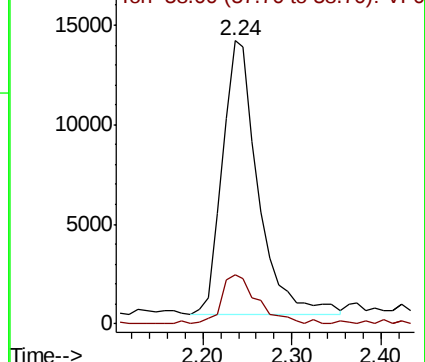
Ion Ratio Lower Upper

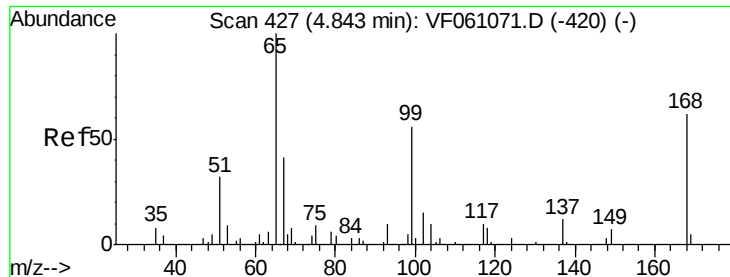
43 100

58 17.2 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 42.292 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

Instrument :

MSVOA\_F

ClientSampleId :

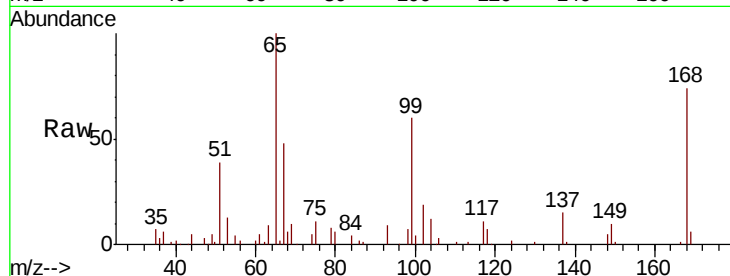
P001-SS012-1824-01

Tot Ion: 65 Resp: 85734

Ion Ratio Lower Upper

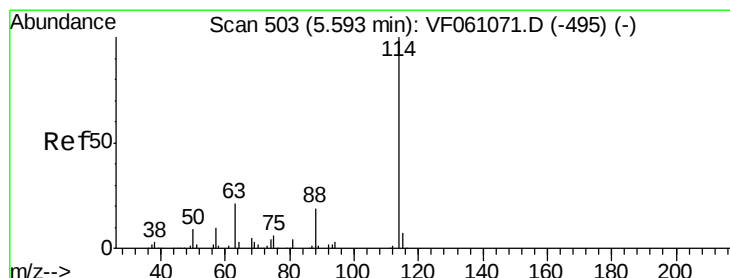
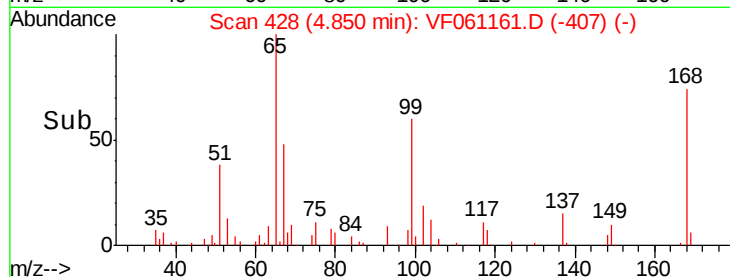
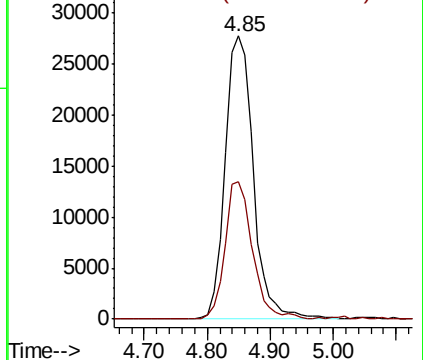
65 100

67 48.5 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

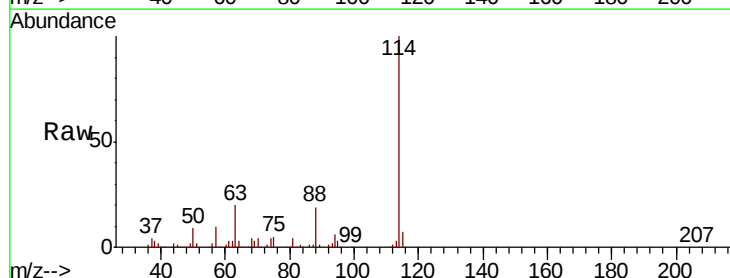
Tgt Ion: 114 Resp: 280796

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.6

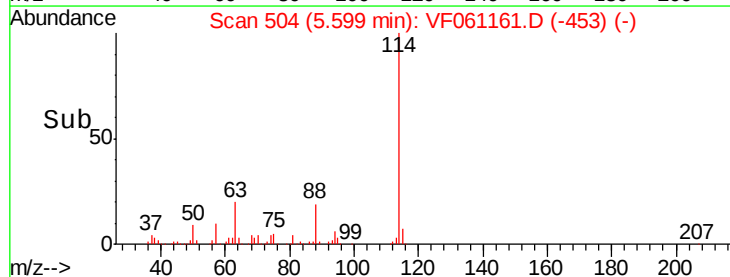
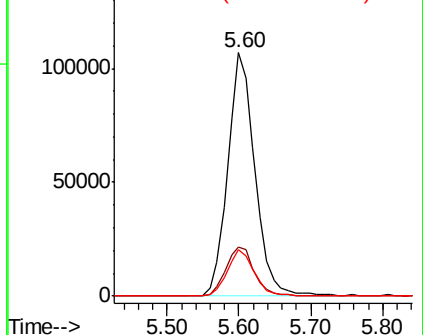
88 19.2 0.0 38.0

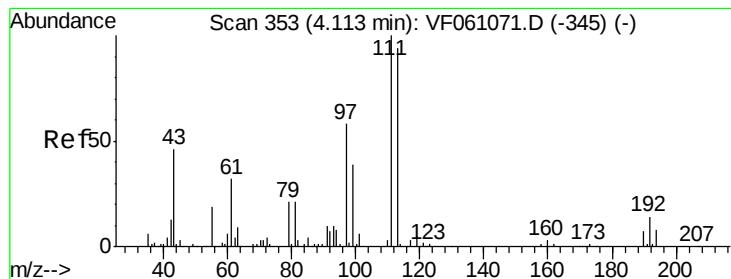


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 43.730 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

Instrument :

MSVOA\_F

ClientSampleId :

P001-SS012-1824-01

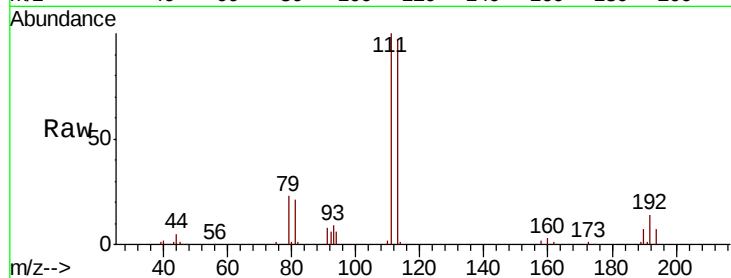
Tot Ion:113 Resp: 98364

Ion Ratio Lower Upper

113 100

111 102.8 85.2 127.8

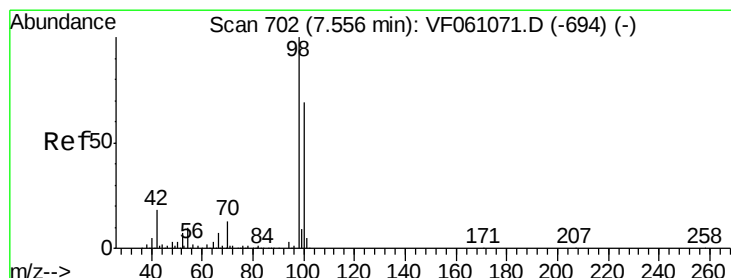
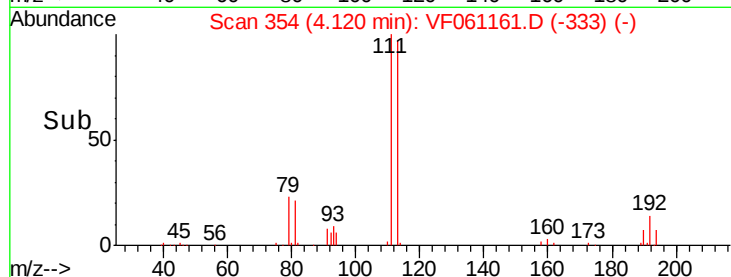
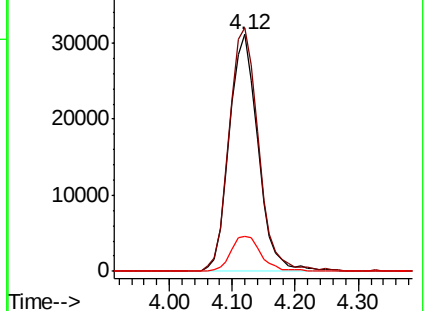
192 14.7 12.8 19.2



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: 41.520 ug/l

RT: 7.56 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF061161.D

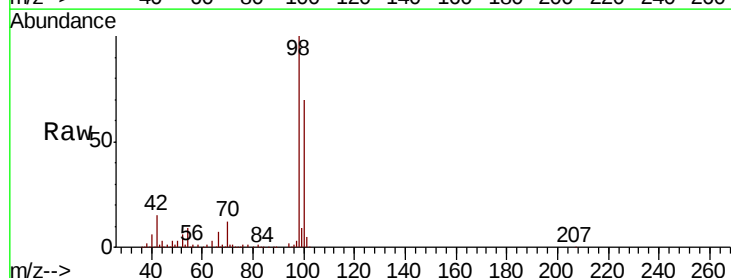
Acq: 24 Dec 2018 13:17

Tgt Ion: 98 Resp: 264666

Ion Ratio Lower Upper

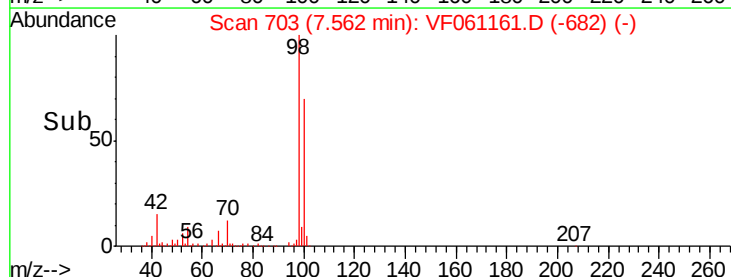
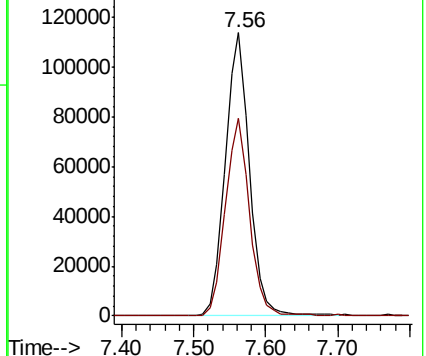
98 100

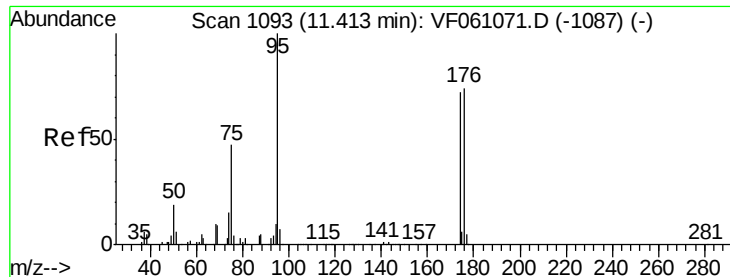
100 70.0 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF





#62

4-Bromofluorobenzene

Concen: 36.511 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

Instrument :

MSVOA\_F

ClientSampleId :

P001-SS012-1824-01

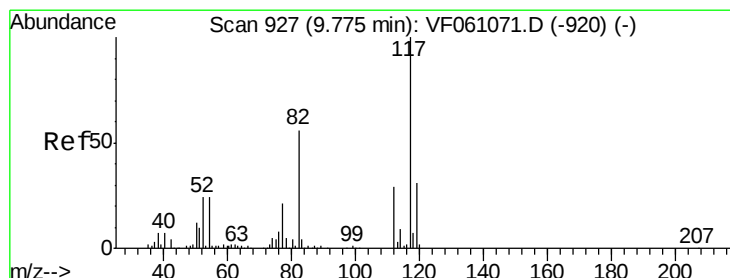
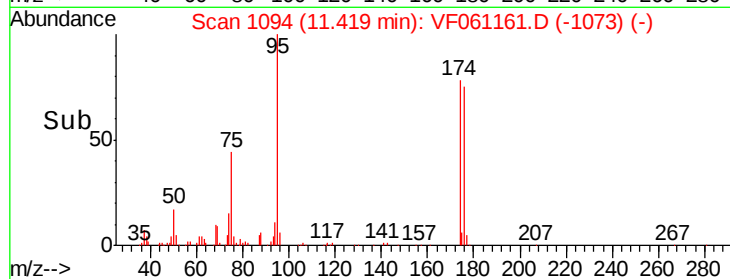
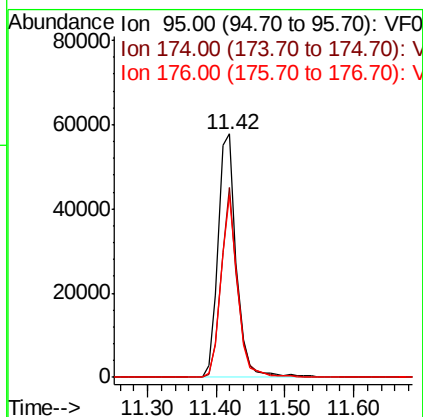
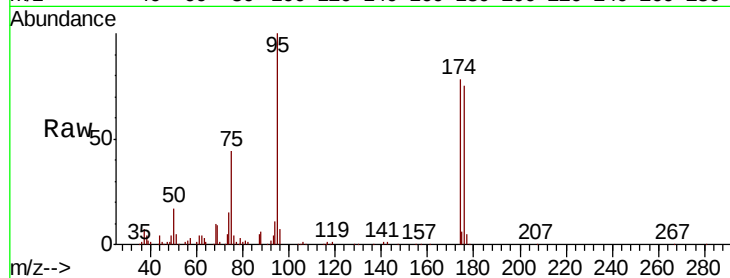
Tot Ion: 95 Resp: 107293

Ion Ratio Lower Upper

95 100

174 77.7 0.0 143.8

176 75.1 0.0 147.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

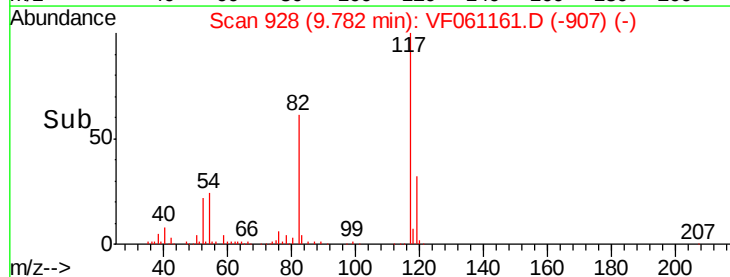
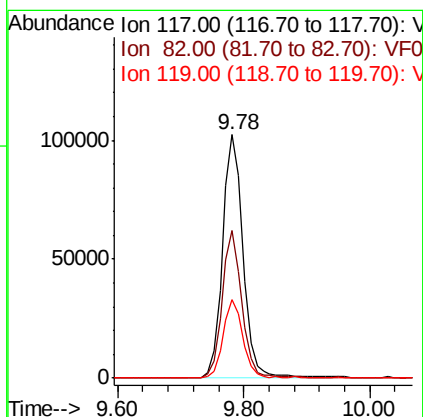
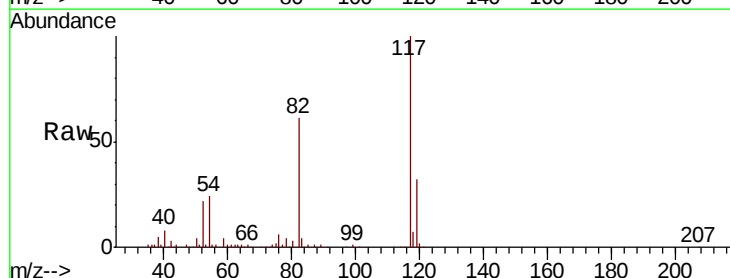
Tgt Ion: 117 Resp: 232330

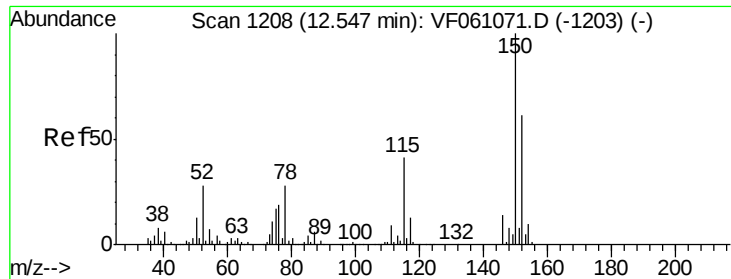
Ion Ratio Lower Upper

117 100

82 60.6 45.0 67.4

119 32.1 24.8 37.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

Instrument :

MSVOA\_F

ClientSampleId :

P001-SS012-1824-01

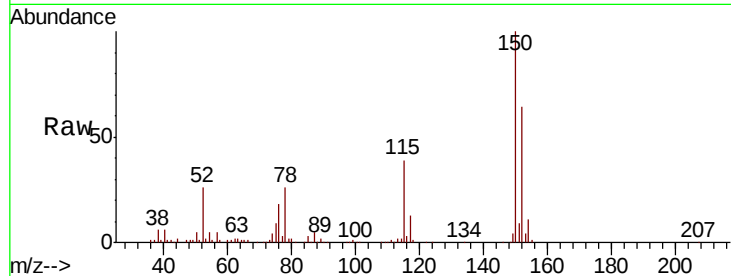
Tot Ion:152 Resp: 104530

Ion Ratio Lower Upper

152 100

115 61.5 33.3 99.9

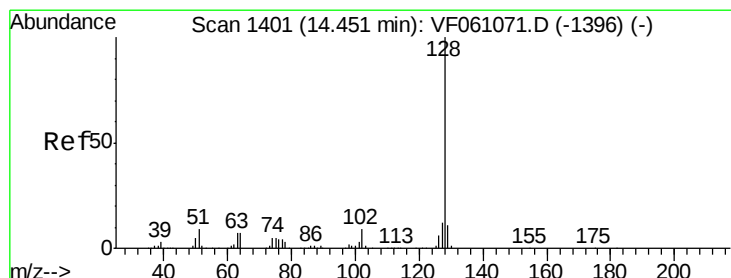
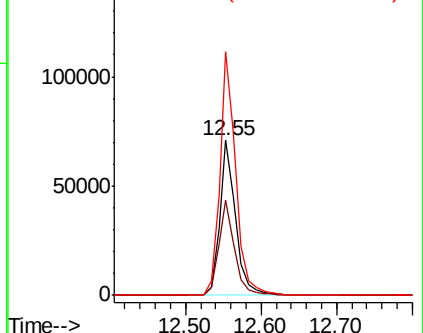
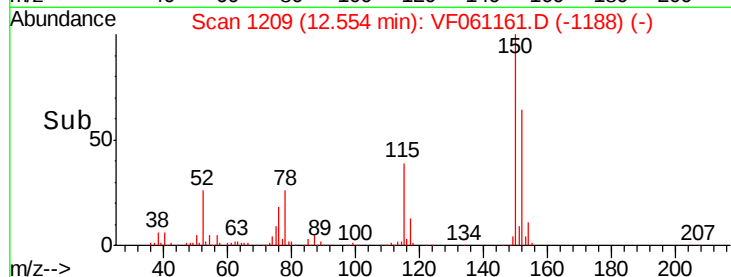
150 157.0 0.0 328.2



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: 1.105 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.01 min

Lab File: VF061161.D

Acq: 24 Dec 2018 13:17

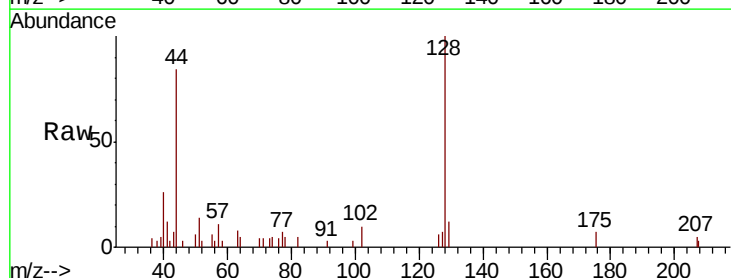
Tgt Ion:128 Resp: 4959

Ion Ratio Lower Upper

128 100

127 7.3 9.4 14.2#

129 12.4 8.8 13.2



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

