

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122418\  
 Data File : VF061172.D  
 Acq On : 24 Dec 2018 18:34  
 Operator : VA/AP  
 Sample : J6389-09RE  
 Misc : 4.87g/5mL/MSVOA-F/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P001-SS014-0006-01RE

Quant Time: Dec 25 01:02:08 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

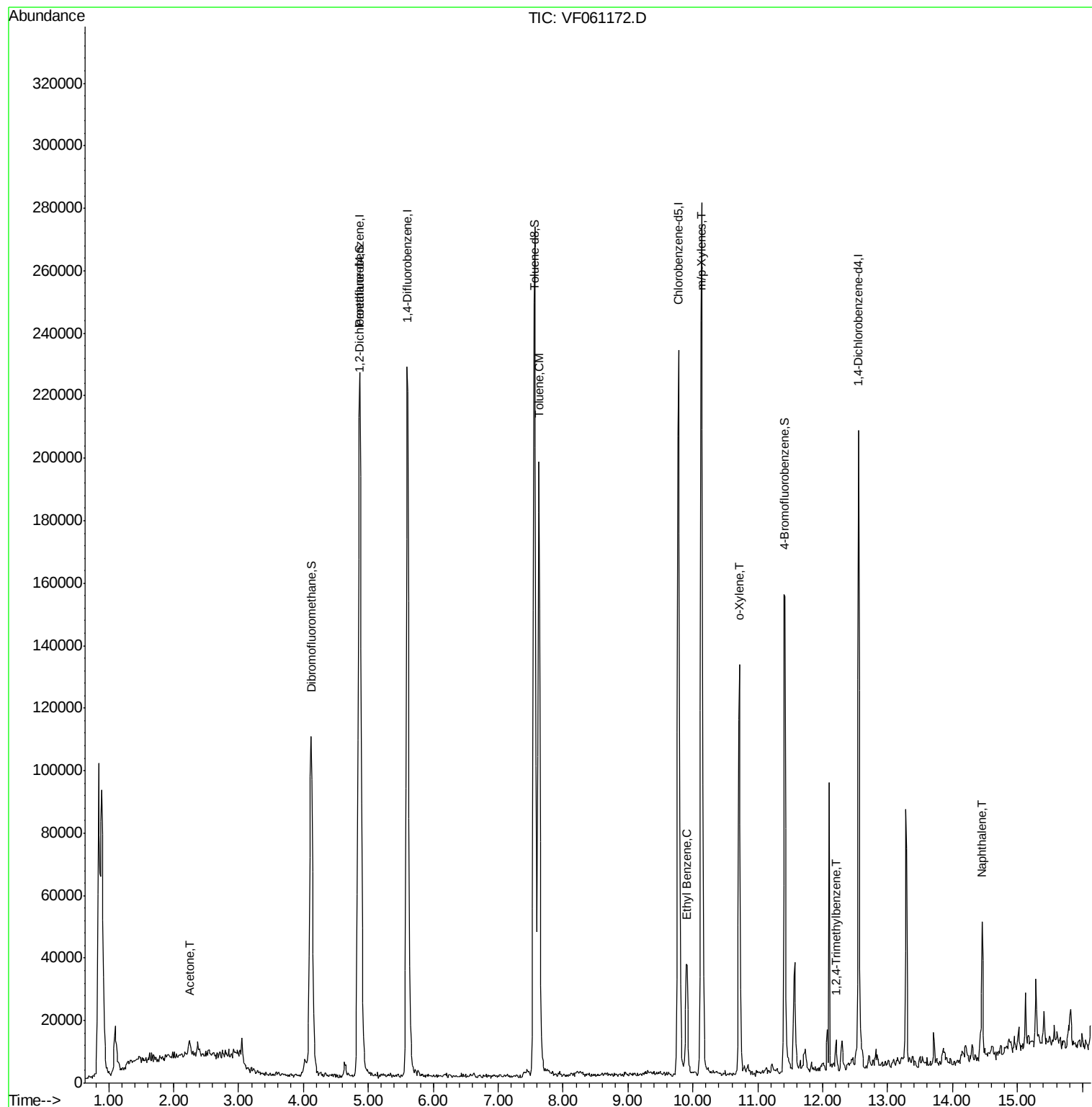
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 4.88  | 168  | 155578   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.60  | 114  | 263100   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 9.78  | 117  | 169253   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.55 | 152  | 47984    | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 4.85  | 65   | 98657    | 49.30  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 98.60%  |          |
| 35) Dibromofluoromethane    | 4.12  | 113  | 105692   | 50.15  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 100.30% |          |
| 50) Toluene-d8              | 7.56  | 98   | 228297   | 38.22  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 76.44%  |          |
| 62) 4-Bromofluorobenzene    | 11.41 | 95   | 66655    | 24.21  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 48.42%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 2.23  | 43   | 8404     | 21.009 | ug/l    | 94       |
| 52) Toluene                 | 7.63  | 92   | 112306   | 24.842 | ug/l    | 95       |
| 67) Ethyl Benzene           | 9.91  | 91   | 33605    | 5.275  | ug/l    | 94       |
| 68) m/p-Xylenes             | 10.14 | 106  | 100140   | 44.670 | ug/l    | 91       |
| 69) o-Xylene                | 10.72 | 106  | 39183    | 15.760 | ug/l    | 93       |
| 84) 1,2,4-Trimethylbenzene  | 12.21 | 105  | 3956     | 1.165  | ug/l    | 97       |
| 95) Naphthalene             | 14.46 | 128  | 16968    | 8.234  | ug/l    | 97       |

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

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Quant Time: Dec 25 01:02:08 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F121918S.M  
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. 0.00 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

Instrument :

MSVOA\_F

ClientSampleId :

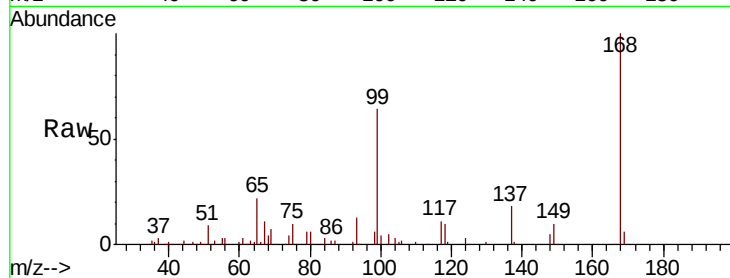
P001-SS014-0006-01RE

Tot Ion:168 Resp: 155578

Ion Ratio Lower Upper

168 100

99 64.0 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

60000

50000

40000

30000

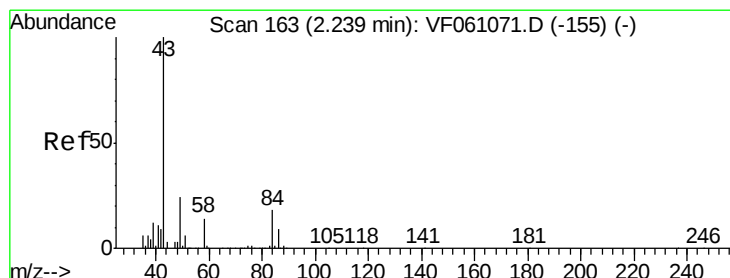
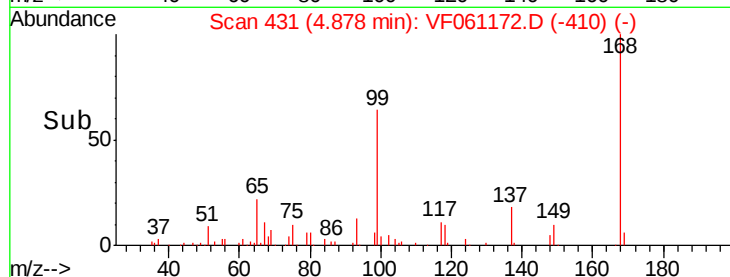
20000

10000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#16

Acetone

Concen: 21.009 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF061172.D

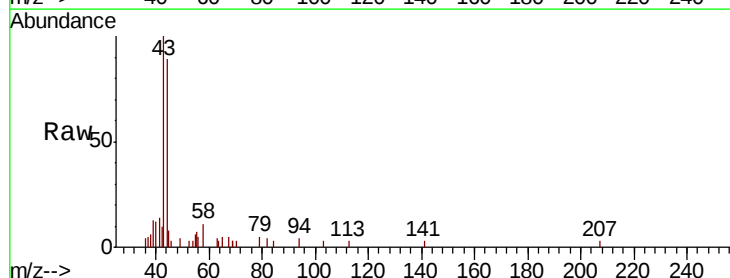
Acq: 24 Dec 2018 18:34

Tgt Ion: 43 Resp: 8404

Ion Ratio Lower Upper

43 100

58 11.4 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.23

4000

3000

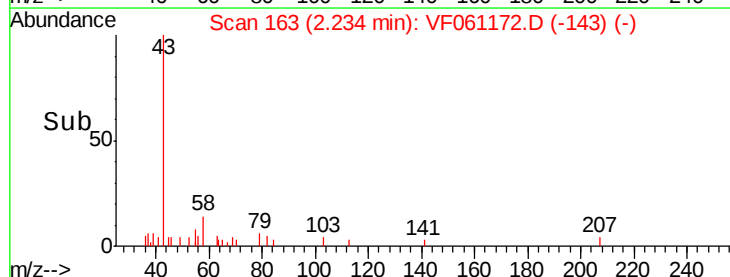
2000

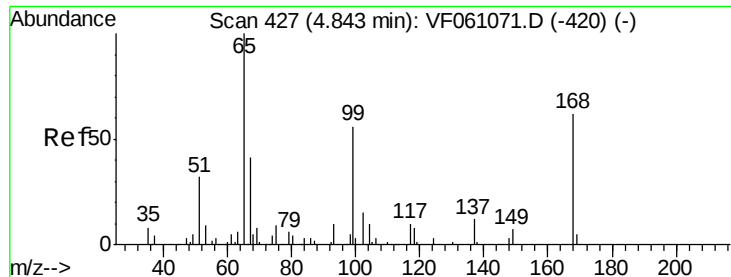
1000

0

Time-->

2.15 2.20 2.25 2.30





#33

1,2-Dichloroethane-d4

Concen: 49.304 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.00 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

Instrument :

MSVOA\_F

ClientSampleId :

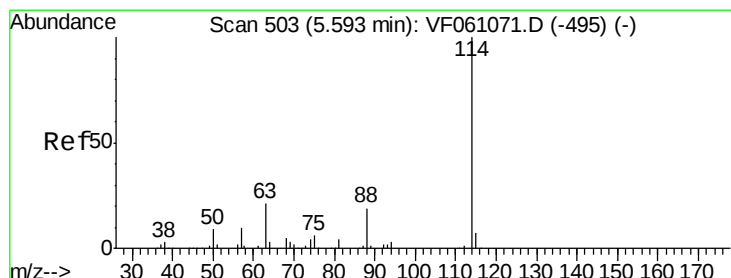
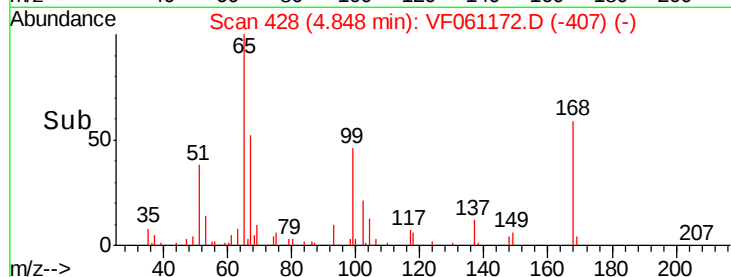
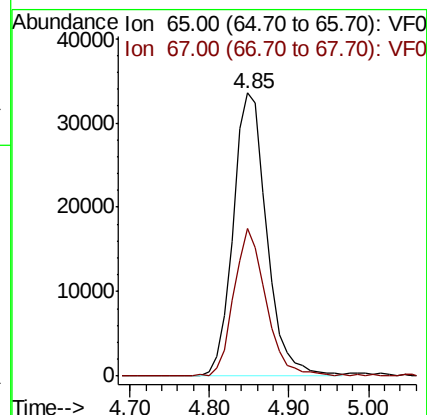
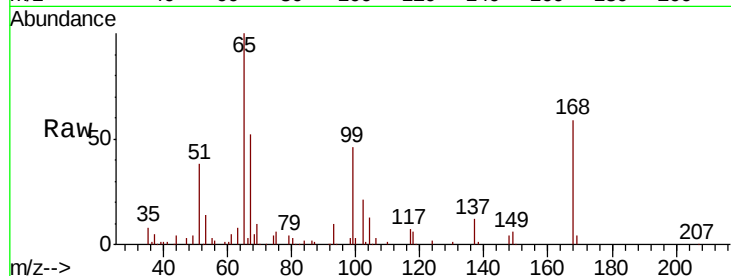
P001-SS014-0006-01RE

Tot Ion: 65 Resp: 98657

Ion Ratio Lower Upper

65 100

67 52.3 0.0 94.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

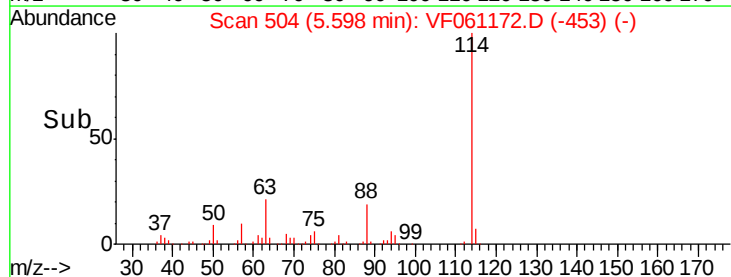
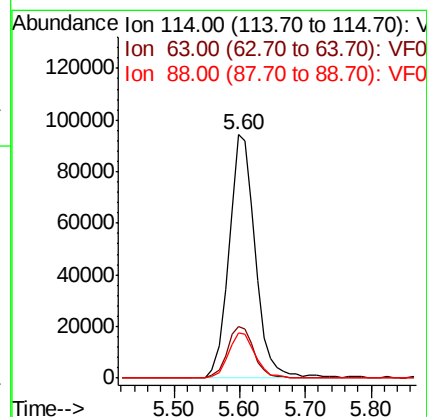
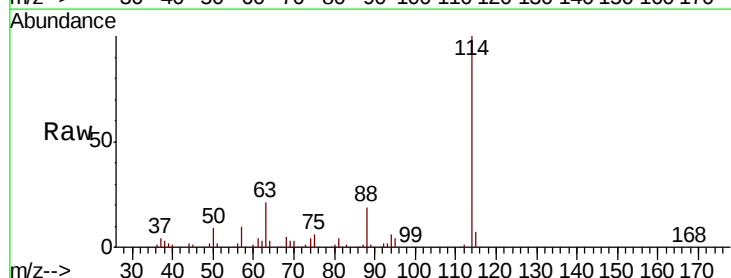
Tgt Ion: 114 Resp: 263100

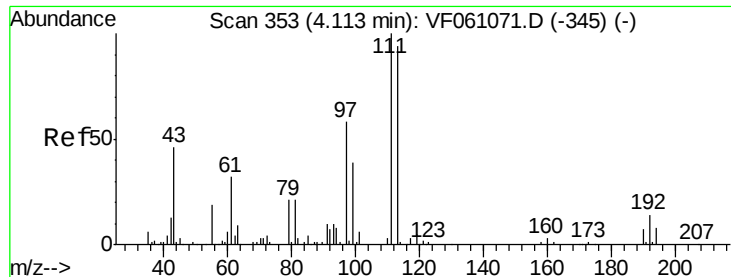
Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.6

88 18.7 0.0 38.0

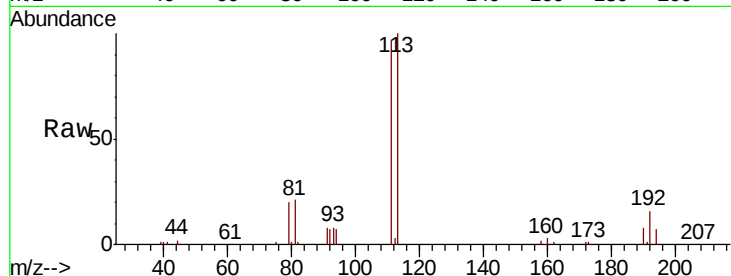




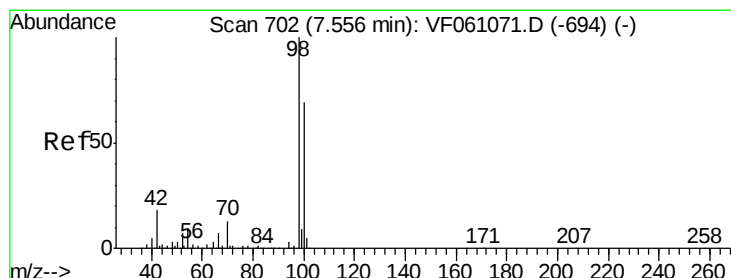
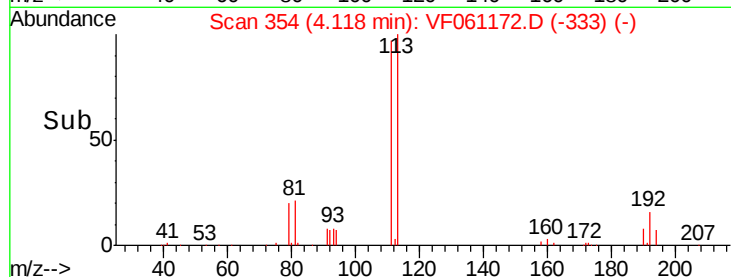
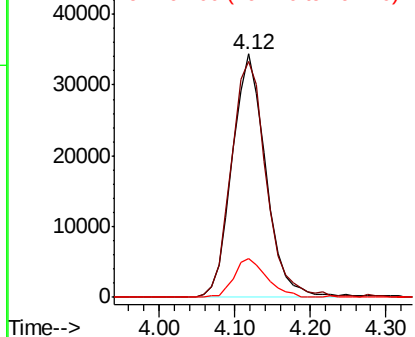
#35  
 Dibromofluoromethane  
 Concen: 50.148 ug/l  
 RT: 4.12 min Scan# 354  
 Delta R.T. 0.00 min  
 Lab File: VF061172.D  
 Acq: 24 Dec 2018 18:34

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P001-SS014-0006-01RE

Tot Ion:113 Resp: 105692  
 Ion Ratio Lower Upper  
 113 100  
 111 97.2 85.2 127.8  
 192 16.1 12.8 19.2

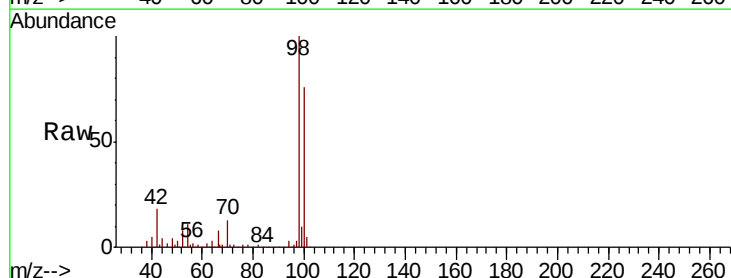


Abundance Ion 113.00 (112.70 to 113.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 192.00 (191.70 to 192.70): V

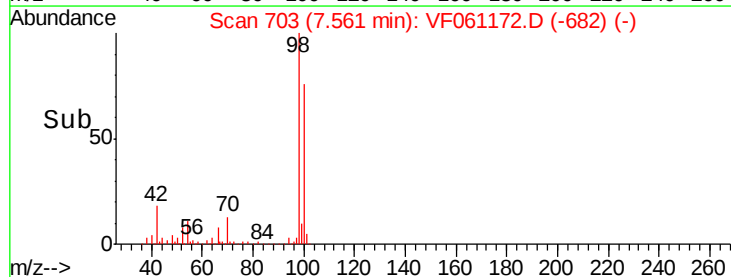
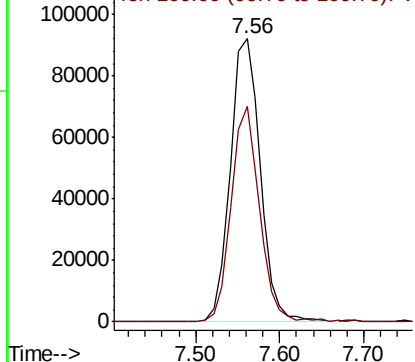


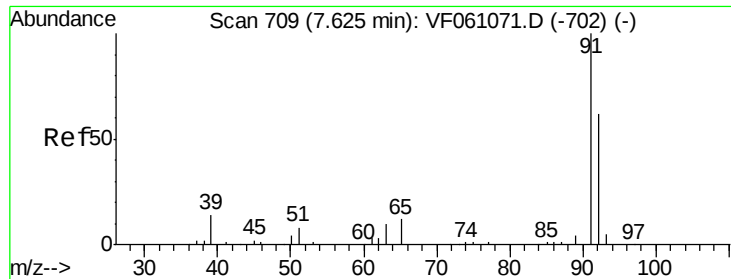
#50  
 Toluene-d8  
 Concen: 38.224 ug/l  
 RT: 7.56 min Scan# 703  
 Delta R.T. 0.00 min  
 Lab File: VF061172.D  
 Acq: 24 Dec 2018 18:34

Tgt Ion: 98 Resp: 228297  
 Ion Ratio Lower Upper  
 98 100  
 100 76.3 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0  
 Ion 100.00 (99.70 to 100.70): VF





#52

Toluene

Concen: 24.842 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

Instrument :

MSVOA\_F

ClientSampleId :

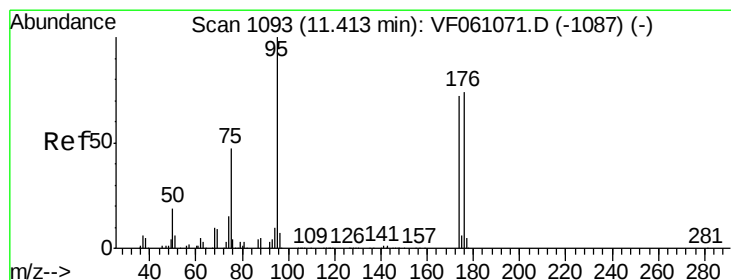
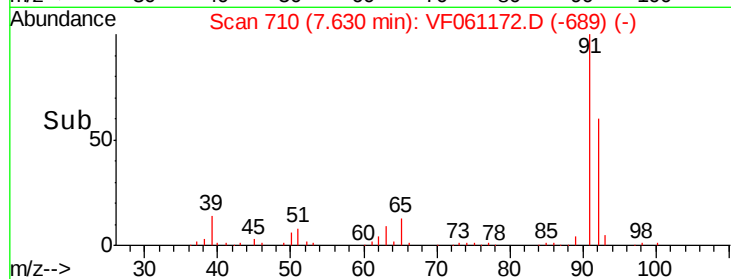
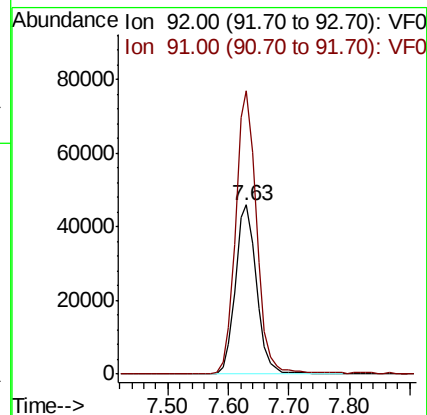
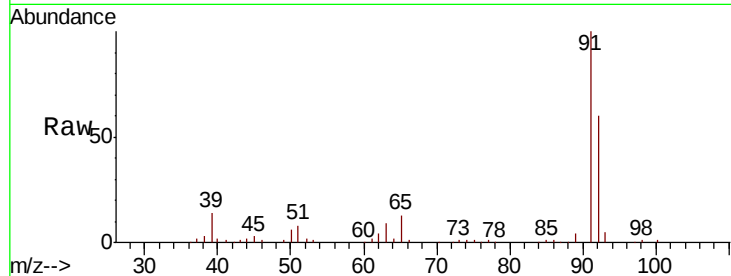
P001-SS014-0006-01RE

Tot Ion: 92 Resp: 112306

Ion Ratio Lower Upper

92 100

91 167.3 128.8 193.2



#62

4-Bromofluorobenzene

Concen: 24.208 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

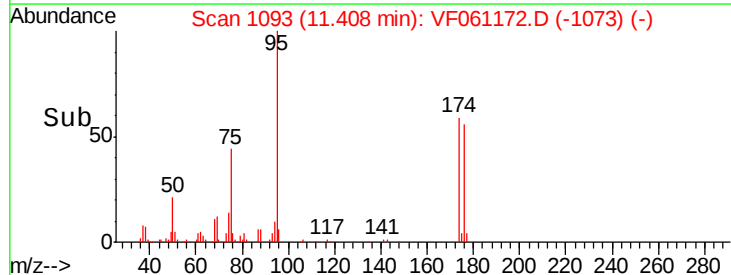
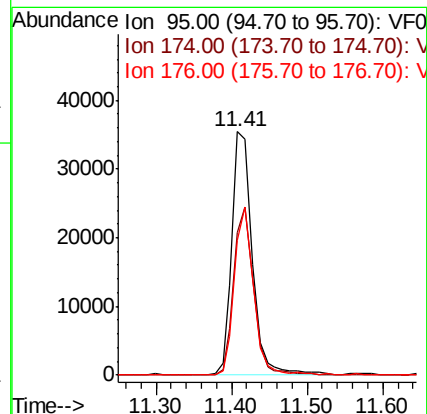
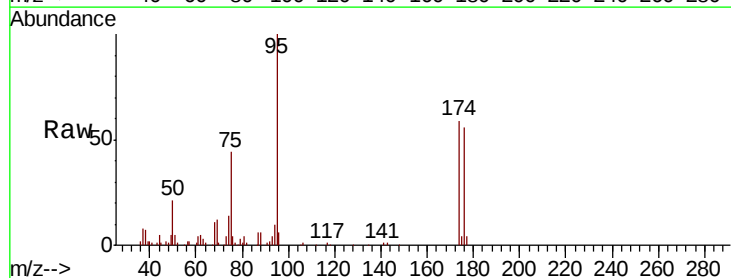
Tgt Ion: 95 Resp: 66655

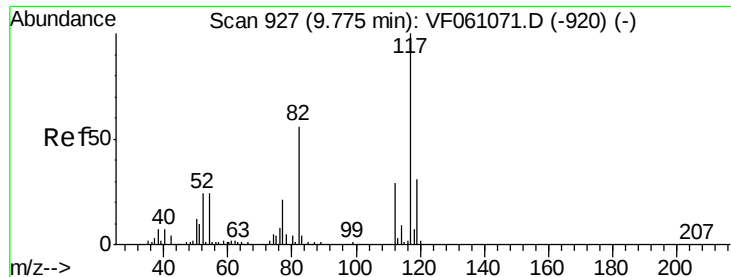
Ion Ratio Lower Upper

95 100

174 58.8 0.0 143.8

176 55.6 0.0 147.6

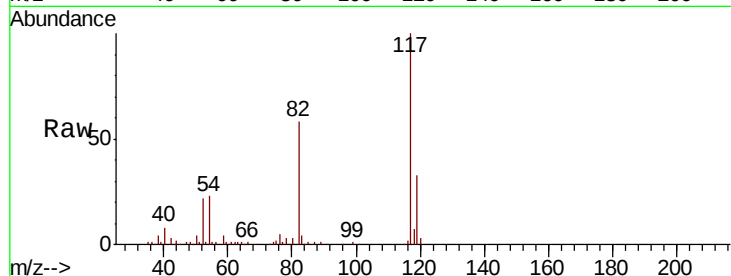




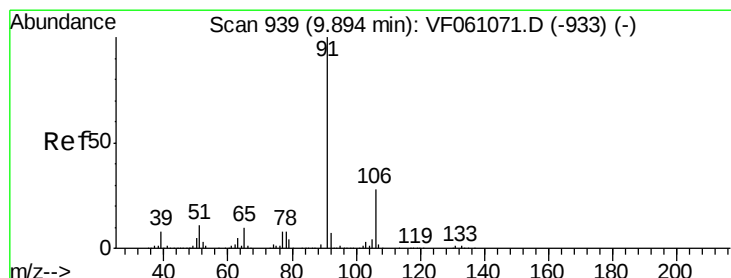
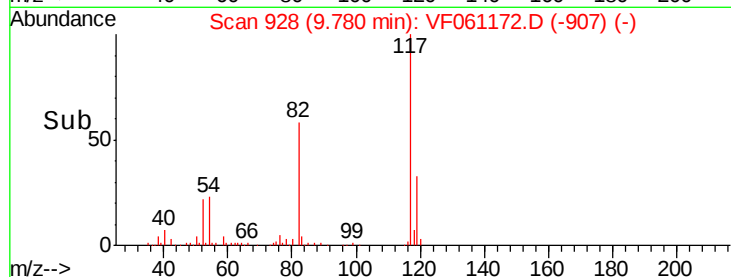
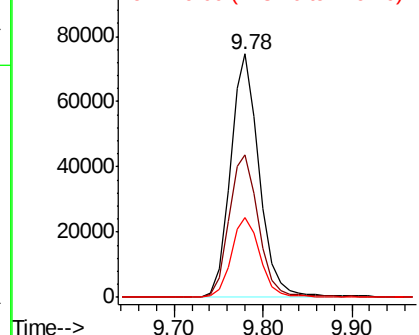
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.78 min Scan# 928  
Delta R.T. 0.00 min  
Lab File: VF061172.D  
Acq: 24 Dec 2018 18:34

Instrument :  
MSVOA\_F  
ClientSampleId :  
P001-SS014-0006-01RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 58.3  | 45.0  | 67.4  |
| 119     | 32.8  | 24.8  | 37.2  |

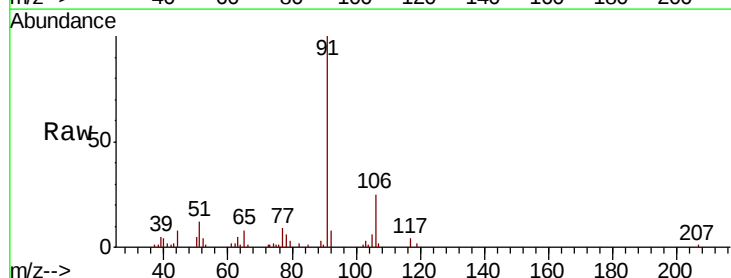


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V

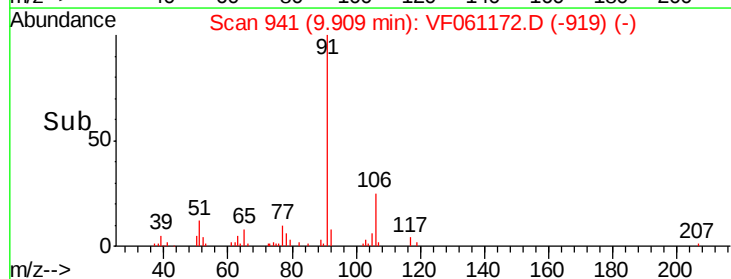
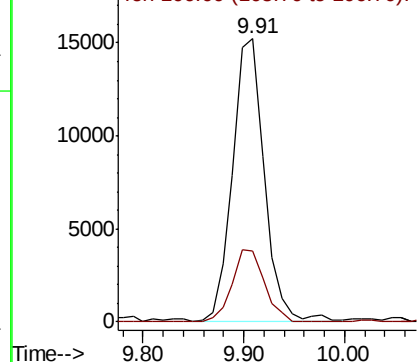


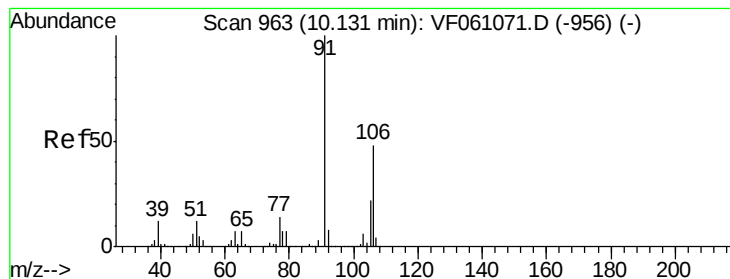
#67  
Ethyl Benzene  
Concen: 5.275 ug/l  
RT: 9.91 min Scan# 941  
Delta R.T. 0.01 min  
Lab File: VF061172.D  
Acq: 24 Dec 2018 18:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 25.1  | 22.5  | 33.7  |



Abundance Ion 91.00 (90.70 to 91.70): VF0  
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 44.670 ug/l

RT: 10.14 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

Instrument :

MSVOA\_F

ClientSampleId :

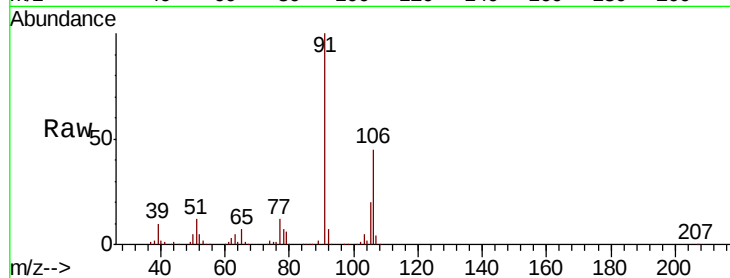
P001-SS014-0006-01RE

Tot Ion:106 Resp: 100140

Ion Ratio Lower Upper

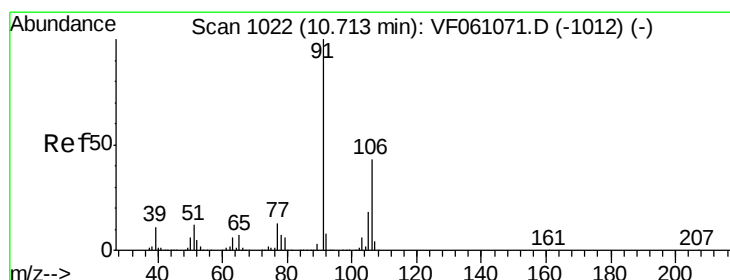
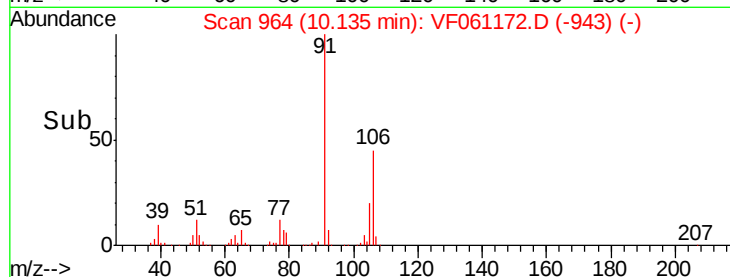
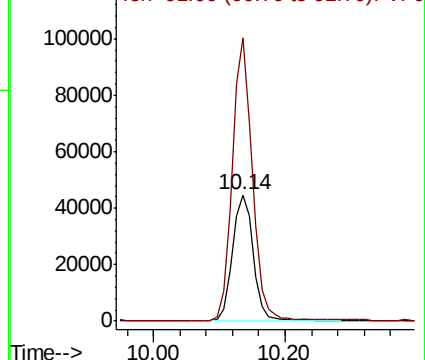
106 100

91 223.9 168.2 252.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 15.760 ug/l

RT: 10.72 min Scan# 1023

Delta R.T. 0.00 min

Lab File: VF061172.D

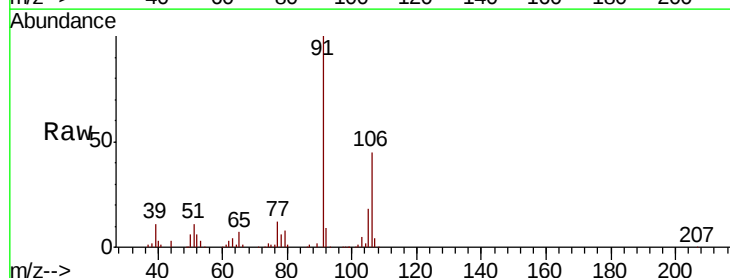
Acq: 24 Dec 2018 18:34

Tgt Ion:106 Resp: 39183

Ion Ratio Lower Upper

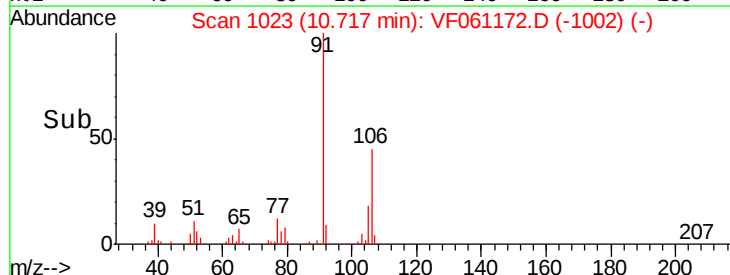
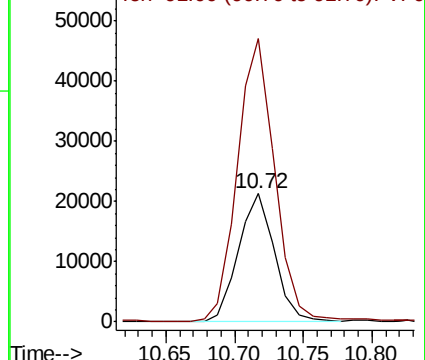
106 100

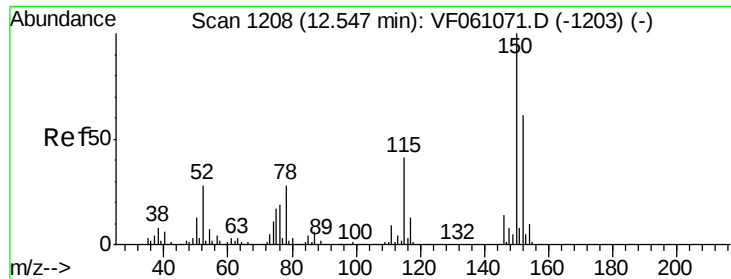
91 220.7 115.9 347.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

Instrument :

MSVOA\_F

ClientSampleId :

P001-SS014-0006-01RE

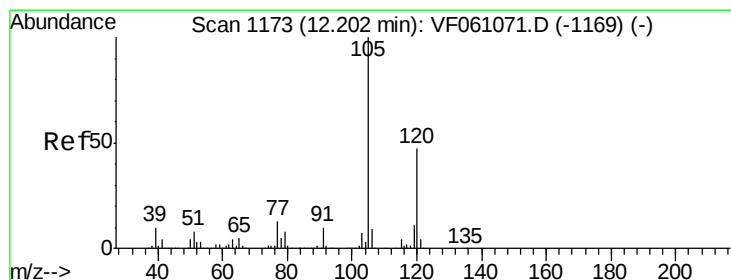
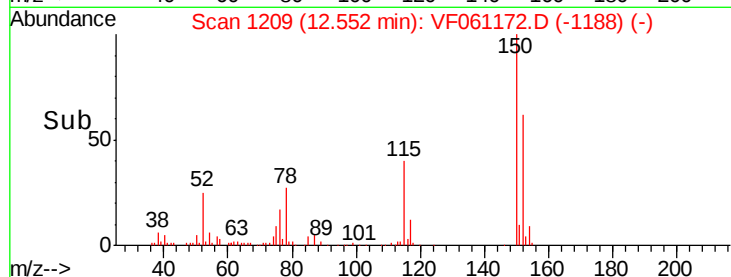
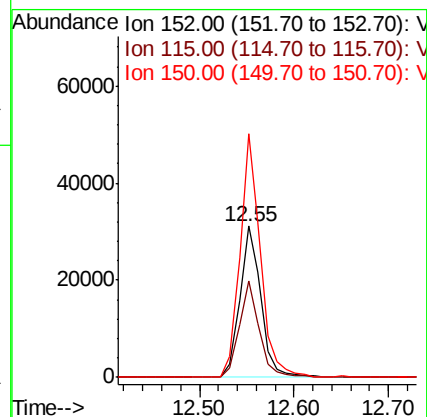
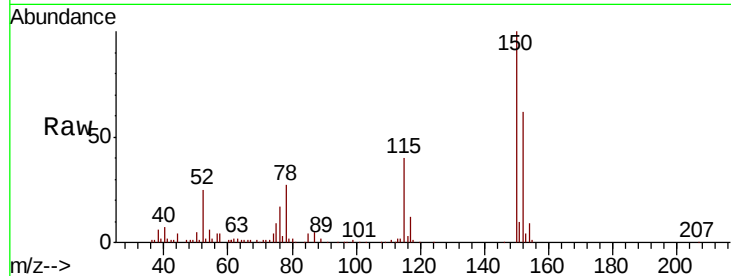
Tot Ion:152 Resp: 47984

Ion Ratio Lower Upper

152 100

115 64.0 33.3 99.9

150 161.2 0.0 328.2



#84

1,2,4-Trimethylbenzene

Concen: 1.165 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VF061172.D

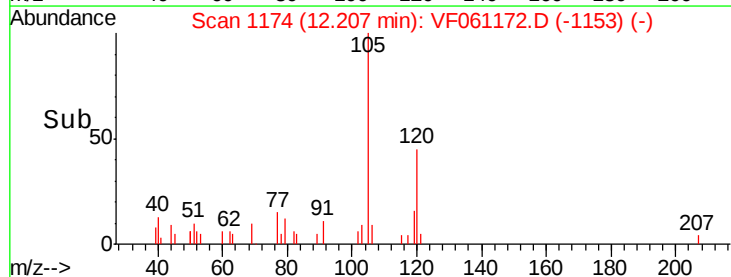
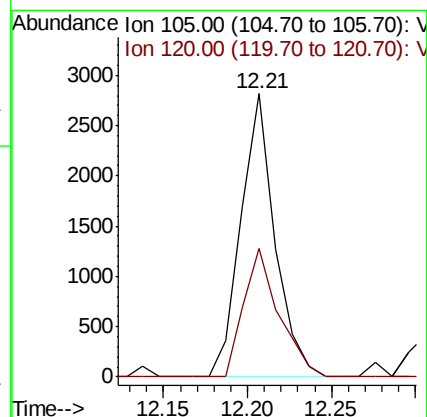
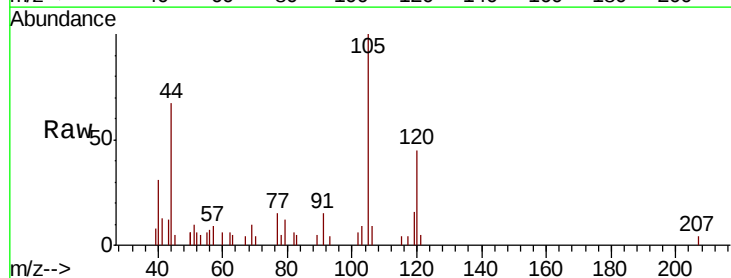
Acq: 24 Dec 2018 18:34

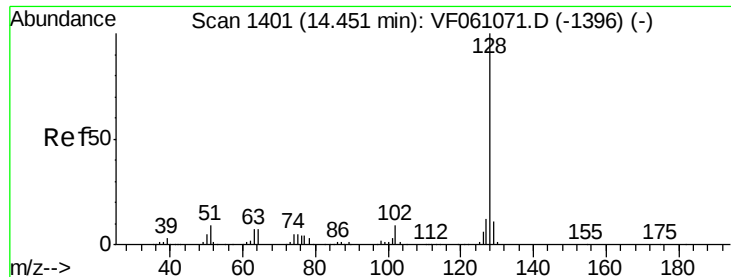
Tgt Ion:105 Resp: 3956

Ion Ratio Lower Upper

105 100

120 45.4 23.6 71.0

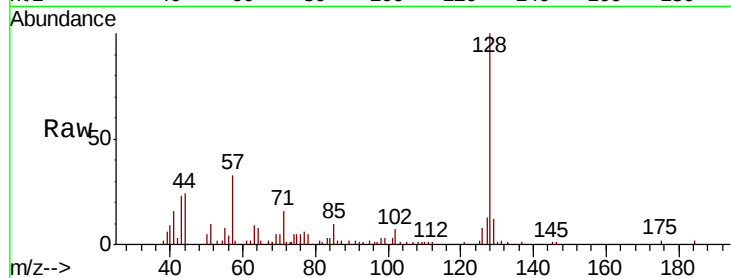




#95  
 Naphthalene  
 Concen: 8.234 ug/l  
 RT: 14.46 min Scan# 1402  
 Delta R.T. 0.00 min  
 Lab File: VF061172.D  
 Acq: 24 Dec 2018 18:34

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P001-SS014-0006-01RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.0  | 9.4   | 14.2  |
| 129     | 11.7  | 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

