

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070618\  
 Data File : VF059465.D  
 Acq On : 6 Jul 2018 22:25  
 Operator : VA/AP  
 Sample : J3855-04  
 Misc : 6.31g/5mL/MSVOA-F/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 S-11(7.5-8)

Quant Time: Jul 07 04:23:19 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

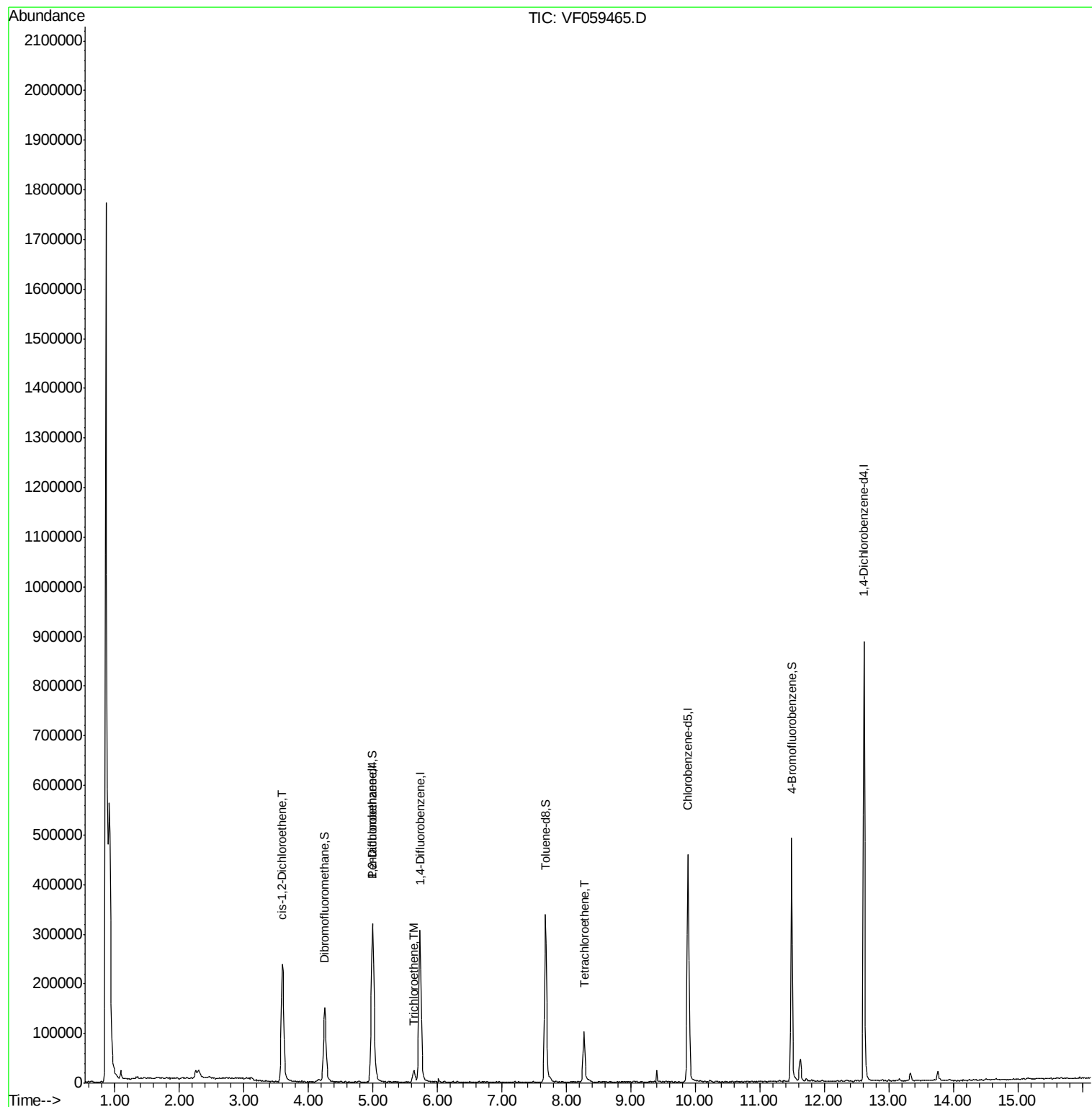
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 5.00  | 168  | 197713   | 50.00 | ug/l    | -0.02    |
| 34) 1,4-Difluorobenzene     | 5.73  | 114  | 303439   | 50.00 | ug/l    | -0.02    |
| 63) Chlorobenzene-d5        | 9.88  | 117  | 313515   | 50.00 | ug/l    | -0.02    |
| 72) 1,4-Dichlorobenzene-d4  | 12.61 | 152  | 209224   | 50.00 | ug/l    | -0.01    |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 4.98  | 65   | 157551   | 61.68 | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 123.36% |          |
| 35) Dibromofluoromethane    | 4.25  | 113  | 128747   | 58.07 | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 116.14% |          |
| 50) Toluene-d8              | 7.68  | 98   | 263243   | 47.95 | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.90%  |          |
| 62) 4-Bromofluorobenzene    | 11.49 | 95   | 156767   | 50.63 | ug/l    | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.26% |          |
| Target Compounds            |       |      |          |       |         |          |
| 27) cis-1,2-Dichloroethene  | 3.59  | 96   | 126415   | 66.96 | ug/l    | 88       |
| 44) Trichloroethene         | 5.63  | 130  | 9010     | 4.47  | ug/l    | 77       |
| 64) Tetrachloroethene       | 8.28  | 164  | 26839    | 13.20 | ug/l    | 91       |

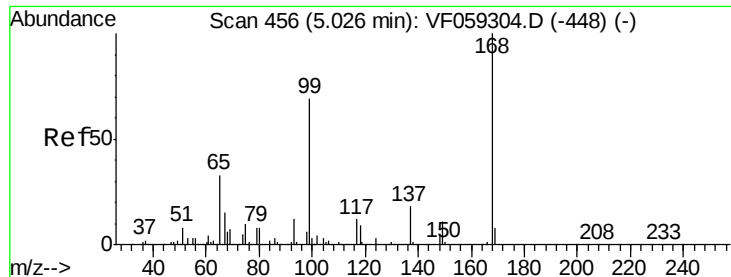
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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S-11(7.5-8)

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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: 5.00 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

Instrument :

MSVOA\_F

ClientSampleId :

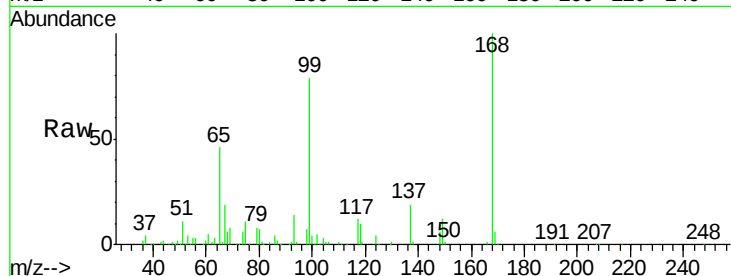
S-11(7.5-8)

Tot Ion:168 Resp: 197713

Ion Ratio Lower Upper

168 100

99 78.9 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

5.00

80000

60000

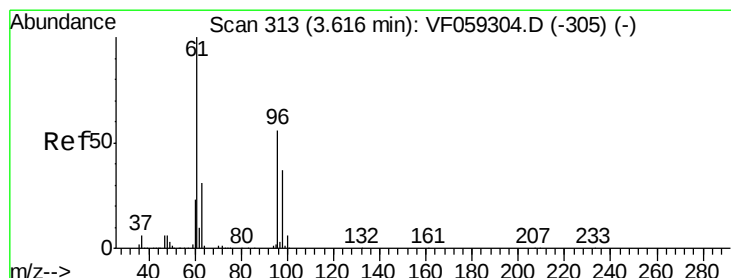
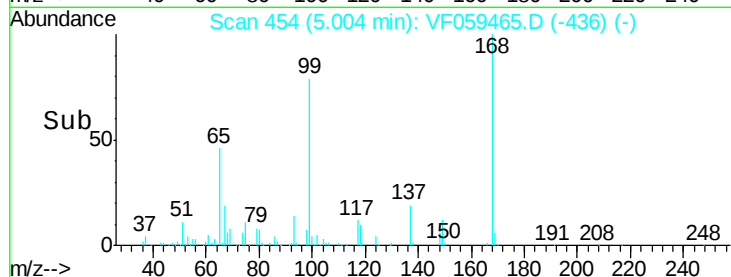
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#27

cis-1,2-Dichloroethene

Concen: 66.96 ug/l

RT: 3.59 min Scan# 311

Delta R.T. -0.02 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

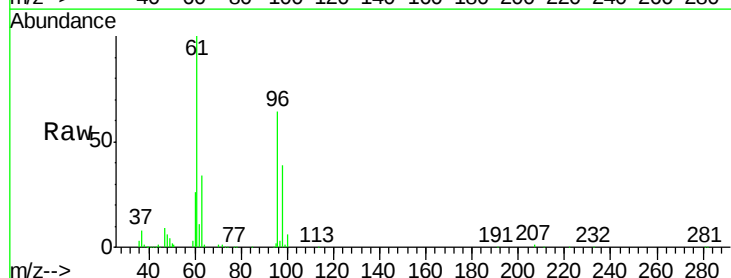
Tgt Ion: 96 Resp: 126415

Ion Ratio Lower Upper

96 100

61 156.8 0.0 355.4

98 61.7 0.0 131.0



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

100000

80000

60000

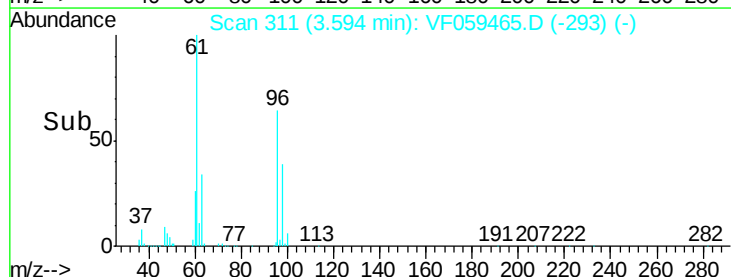
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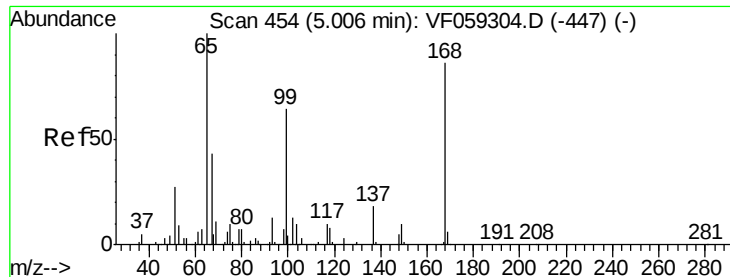
20000

0

Time-->

3.50 3.60 3.70

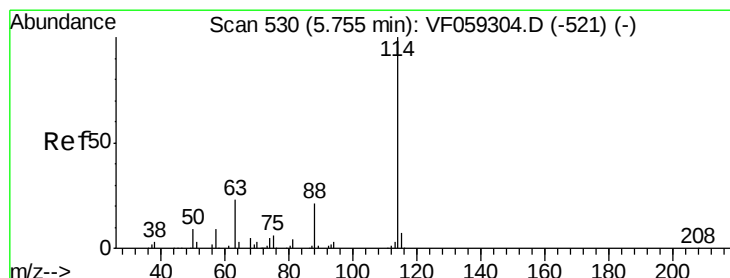
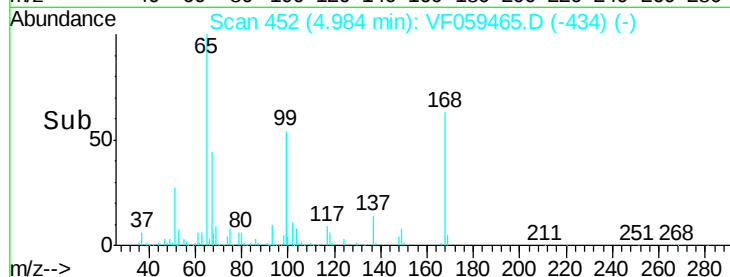
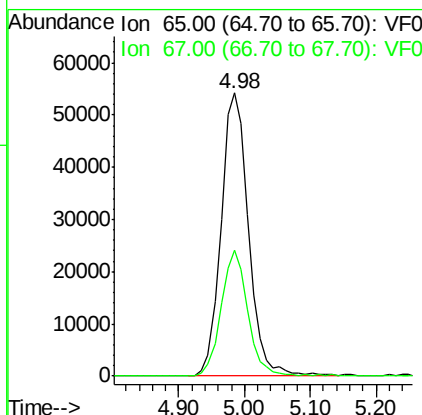
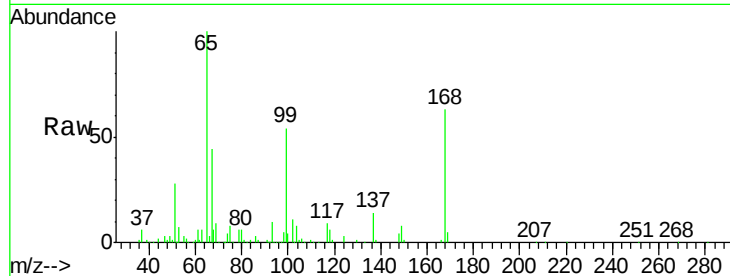




#33  
 1,2-Dichloroethane-d4  
 Concen: 61.68 ug/l  
 RT: 4.98 min Scan# 452  
 Delta R.T. -0.02 min  
 Lab File: VF059465.D  
 Acq: 6 Jul 2018 22:25

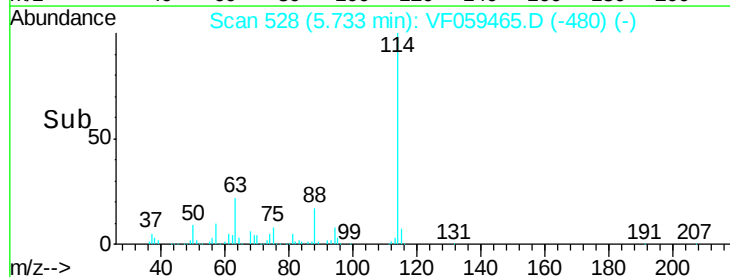
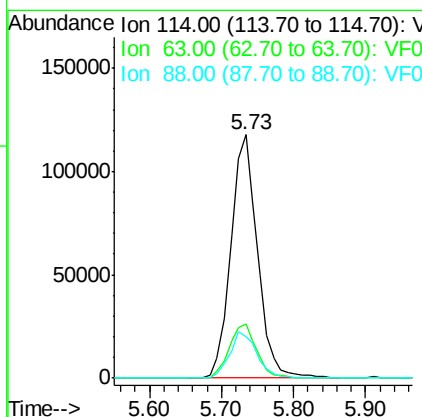
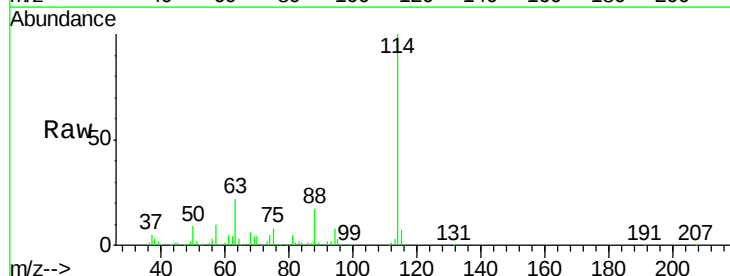
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 S-11(7.5-8)

Tot Ion: 65 Resp: 157551  
 Ion Ratio Lower Upper  
 65 100  
 67 44.4 0.0 96.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.73 min Scan# 528  
 Delta R.T. -0.02 min  
 Lab File: VF059465.D  
 Acq: 6 Jul 2018 22:25

Tgt Ion: 114 Resp: 303439  
 Ion Ratio Lower Upper  
 114 100  
 63 22.1 0.0 45.8  
 88 16.9 0.0 41.2

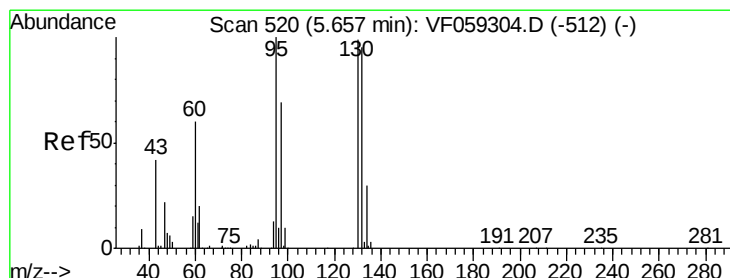
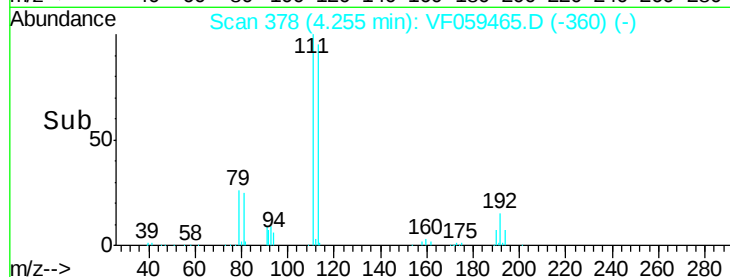
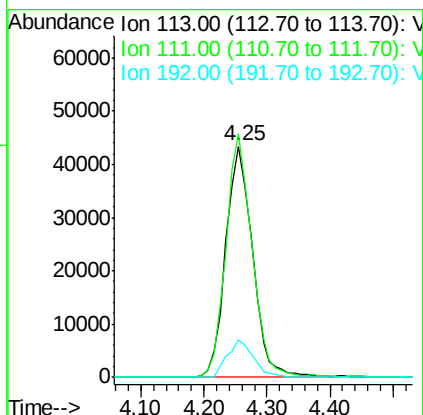
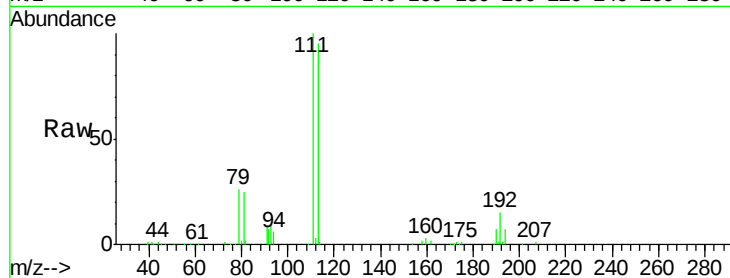




#35  
 Dibromofluoromethane  
 Concen: 58.07 ug/l  
 RT: 4.25 min Scan# 378  
 Delta R.T. -0.02 min  
 Lab File: VF059465.D  
 Acq: 6 Jul 2018 22:25

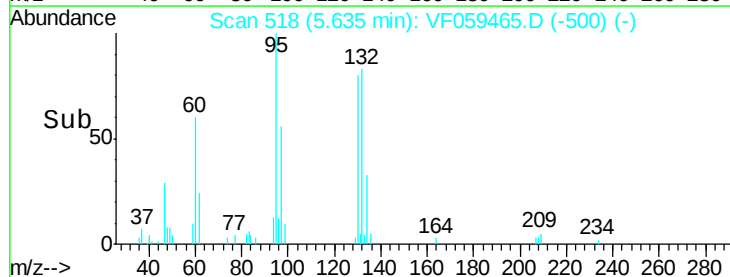
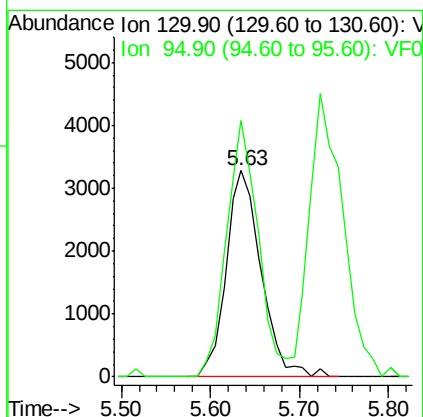
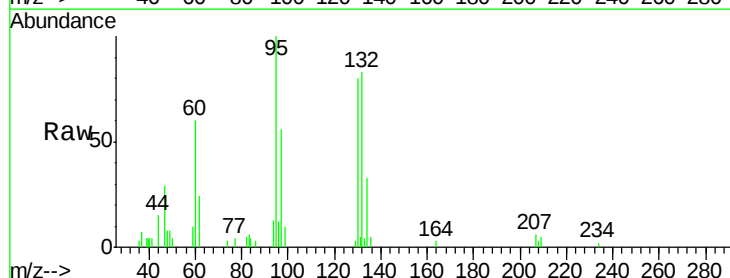
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 S-11(7.5-8)

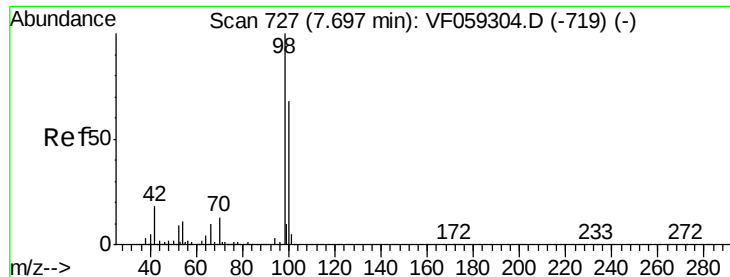
Tot Ion:113 Resp: 128747  
 Ion Ratio Lower Upper  
 113 100  
 111 104.2 82.1 123.1  
 192 16.2 13.0 19.6



#44  
 Trichloroethene  
 Concen: 4.47 ug/l  
 RT: 5.63 min Scan# 518  
 Delta R.T. -0.02 min  
 Lab File: VF059465.D  
 Acq: 6 Jul 2018 22:25

Tgt Ion:130 Resp: 9010  
 Ion Ratio Lower Upper  
 130 100  
 95 124.6 0.0 202.4





#50

Toluene-d8

Concen: 47.95 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.02 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

Instrument :

MSVOA\_F

ClientSampleId :

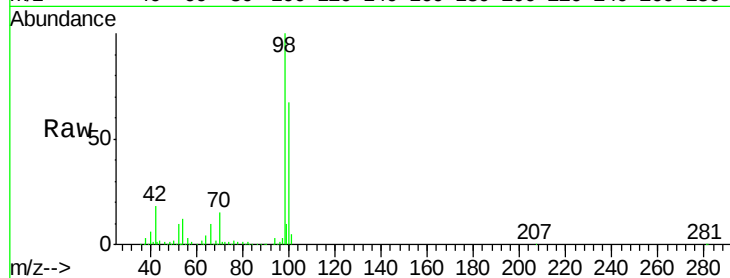
S-11(7.5-8)

Tot Ion: 98 Resp: 263243

Ion Ratio Lower Upper

98 100

100 66.6 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.68

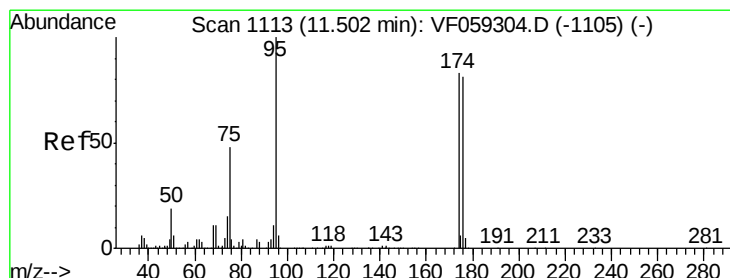
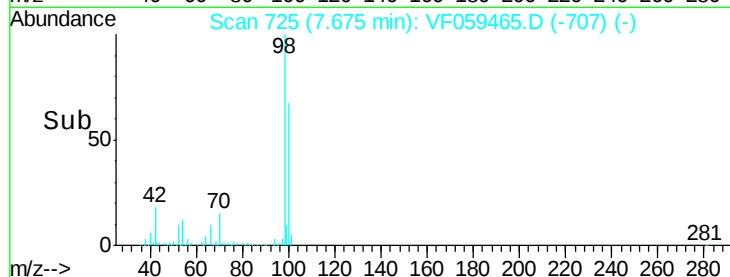
100000

50000

0

Time-->

7.60 7.70 7.80



#62

4-Bromofluorobenzene

Concen: 50.63 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

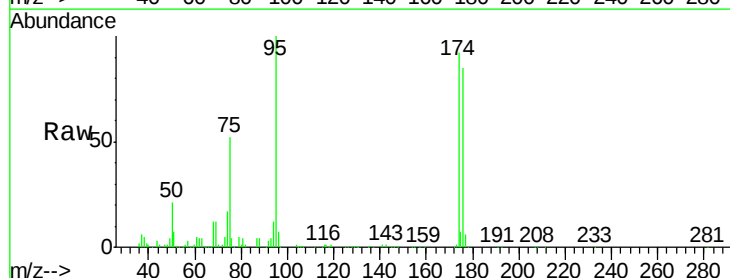
Tgt Ion: 95 Resp: 156767

Ion Ratio Lower Upper

95 100

174 92.2 0.0 165.2

176 85.4 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

11.49

120000

100000

80000

60000

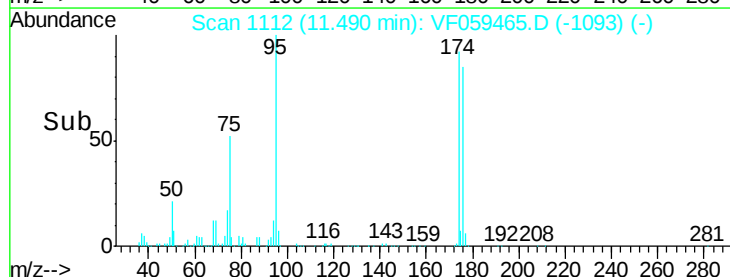
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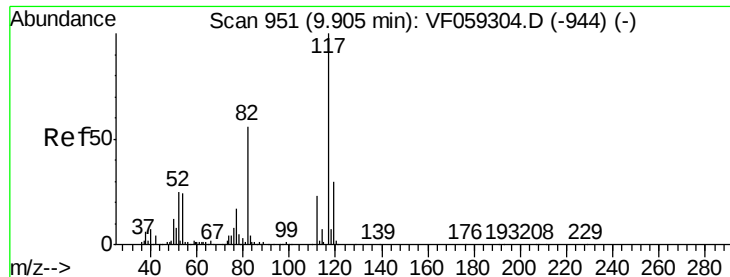
20000

0

Time-->

11.40 11.50 11.60

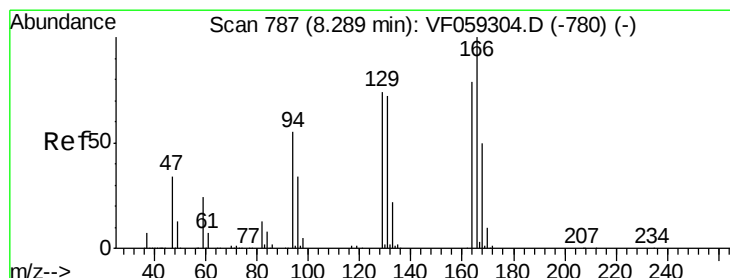
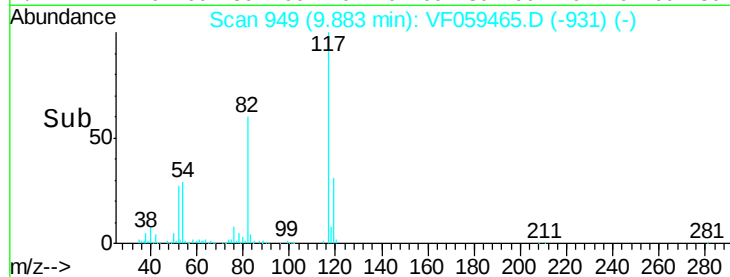
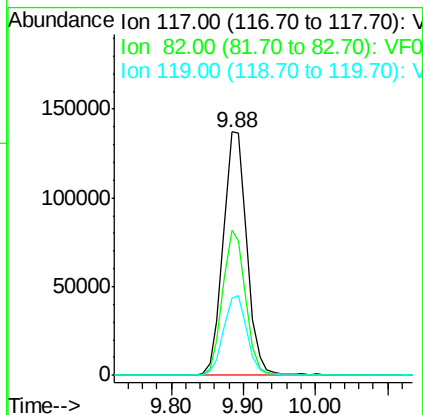
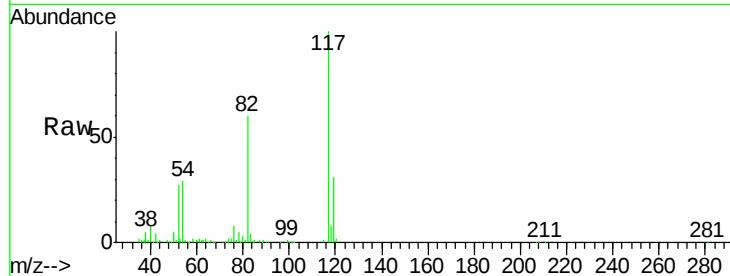




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.88 min Scan# 949  
Delta R.T. -0.02 min  
Lab File: VF059465.D  
Acq: 6 Jul 2018 22:25

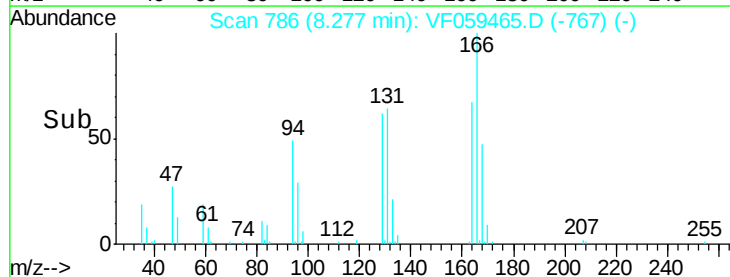
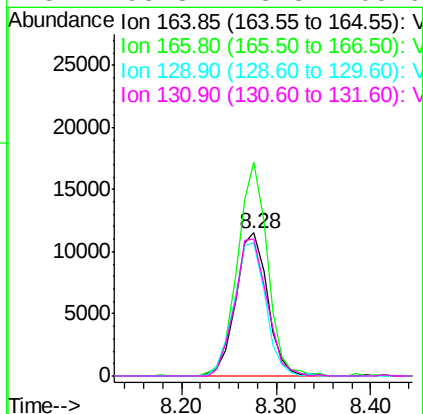
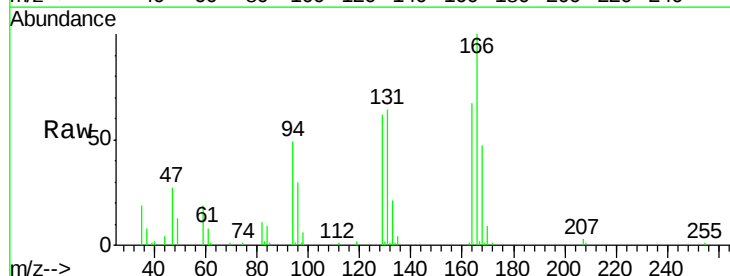
Instrument :  
MSVOA\_F  
ClientSampleId :  
S-11(7.5-8)

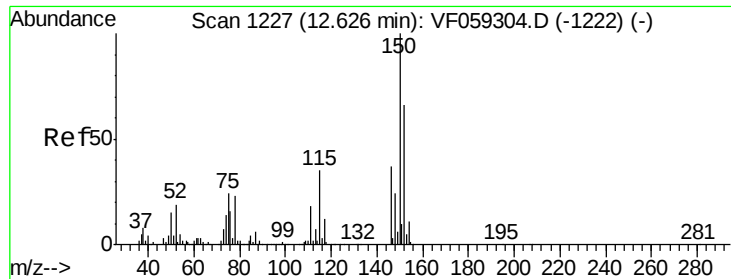
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 59.5  | 44.6  | 66.8  |
| 119     | 31.5  | 24.1  | 36.1  |



#64  
Tetrachloroethene  
Concen: 13.20 ug/l  
RT: 8.28 min Scan# 786  
Delta R.T. -0.01 min  
Lab File: VF059465.D  
Acq: 6 Jul 2018 22:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 149.1 | 101.1 | 151.7 |
| 129     | 92.9  | 75.0  | 112.4 |
| 131     | 95.3  | 73.3  | 109.9 |





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.61 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

Instrument :

MSVOA\_F

ClientSampleId :

S-11(7.5-8)

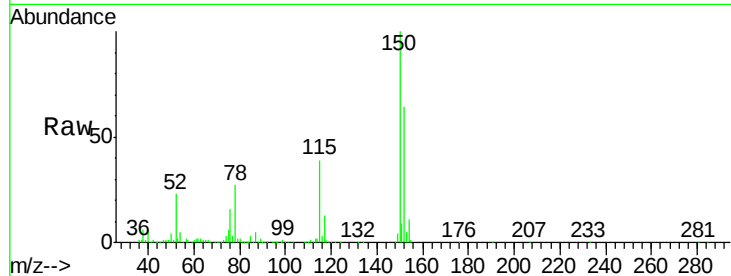
Tot Ion:152 Resp: 209224

Ion Ratio Lower Upper

152 100

115 60.4 27.1 81.3

150 155.2 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

