

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF061918\  
 Data File : VF059217.D  
 Acq On : 20 Jun 2018 6:17  
 Operator : VA/AP  
 Sample : J3575-02  
 Misc : 12.57g/5mL/MSVOA-F/SOIL  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-9

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 6/20/2018 11:21:43 AM

Quant Time: Jun 20 07:34:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F060618S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 07 10:52:00 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.03  | 168  | 231774   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.76  | 114  | 382175   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 363976   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 205407   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.01  | 65   | 171088   | 60.86 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 121.72% |          |
| 35) Dibromofluoromethane    | 4.28  | 113  | 161371   | 60.18 | ug/l    | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 120.36% |          |
| 50) Toluene-d8              | 7.70  | 98   | 377000   | 47.85 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.70%  |          |
| 62) 4-Bromofluorobenzene    | 11.51 | 95   | 196150   | 48.54 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.08%  |          |

| Target Compounds       | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------|------|------|----------|------|-------|--------|
| 20) Methylene Chloride | 2.27 | 84   | 9598m    | 5.97 | ug/l  |        |

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

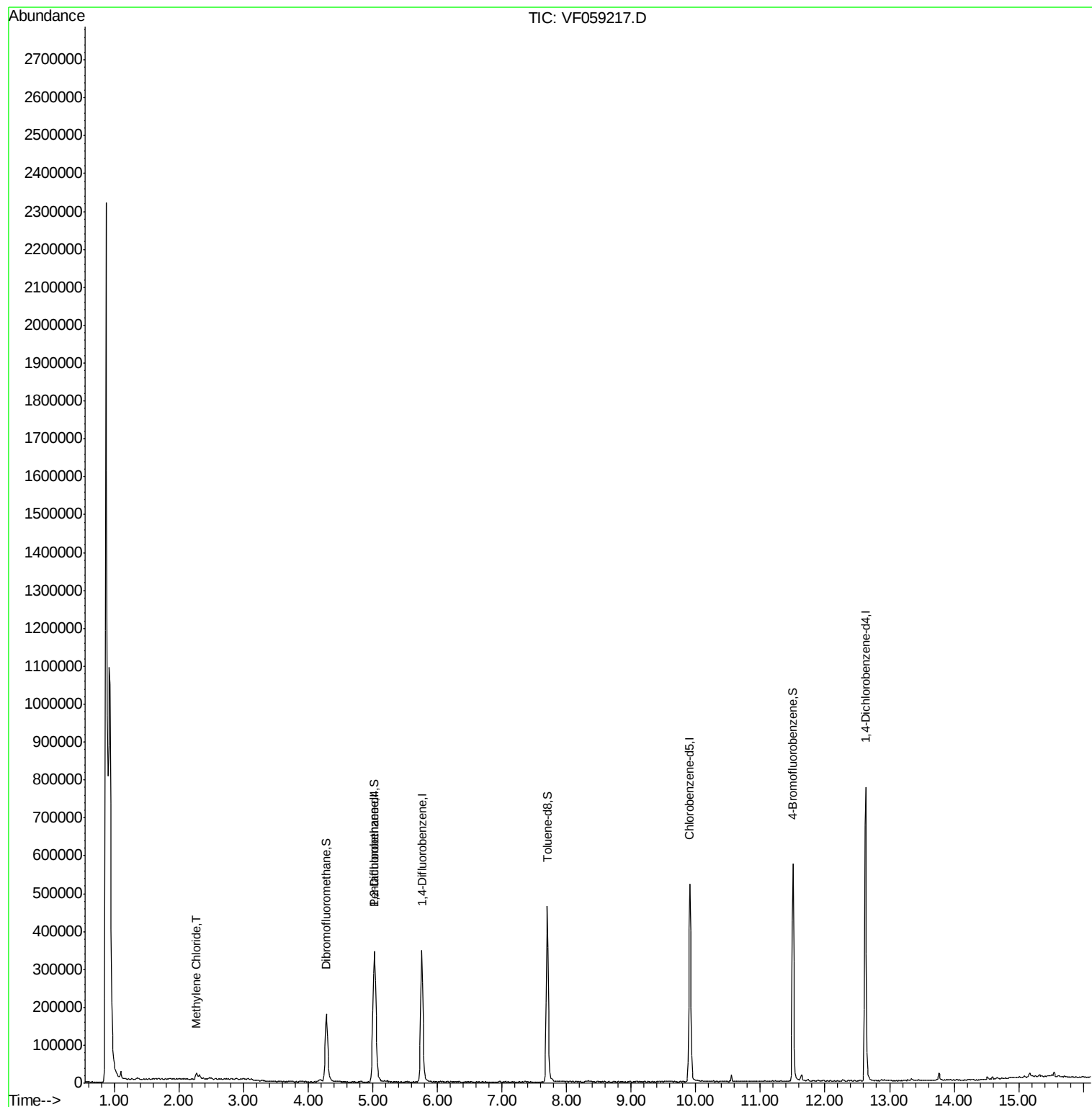
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF061918\  
Data File : VF059217.D  
Acq On : 20 Jun 2018 6:17  
Operator : VA/AP  
Sample : J3575-02  
Misc : 12.57g/5mL/MSVOA-F/SOIL  
ALS Vial : 32 Sample Multiplier: 1

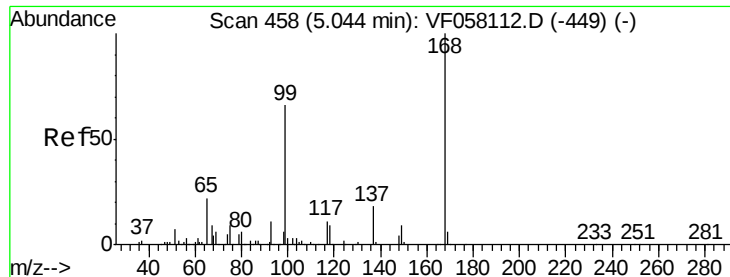
Instrument :  
MSVOA\_F  
ClientSampleId :  
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Quant Time: Jun 20 07:34:30 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F060618S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 07 10:52:00 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.01 min

Lab File: VF059217.D

Acq: 20 Jun 2018 6:17

Instrument :

MSVOA\_F

ClientSampleId :

TP-9

Tot Ion:168 Resp: 231774

Ion Ratio Lower Upper

168 100

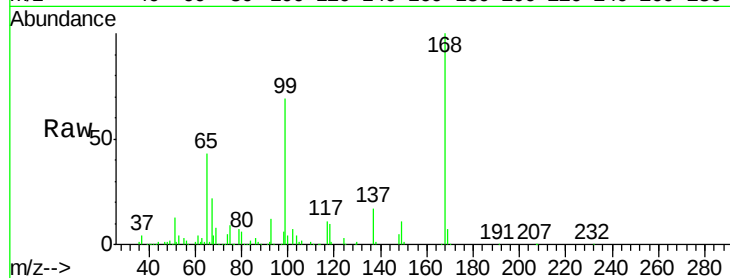
99 68.9 52.9 79.3

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Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

80000

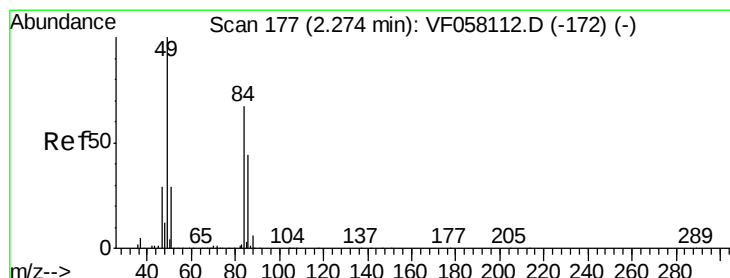
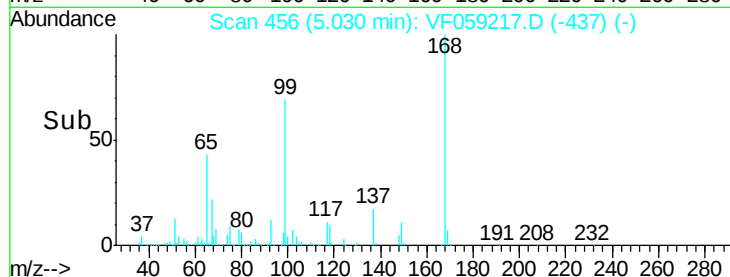
60000

40000

20000

0

Time-->



#20

Methylene Chloride

Concen: 5.97 ug/l m

RT: 2.27 min Scan# 176

Delta R.T. -0.00 min

Lab File: VF059217.D

Acq: 20 Jun 2018 6:17

Tgt Ion: 84 Resp: 9598

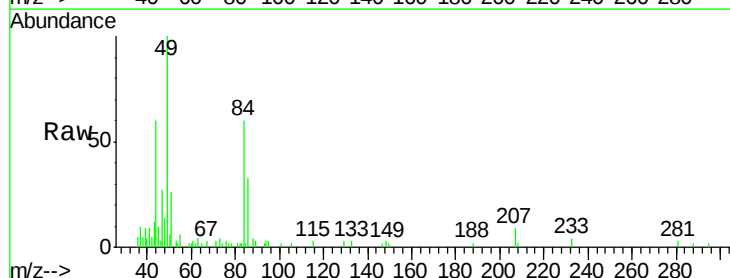
Ion Ratio Lower Upper

84 100

49 167.6 121.0 181.4

51 42.9 35.8 53.6

86 55.6 53.2 79.8



Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

8000

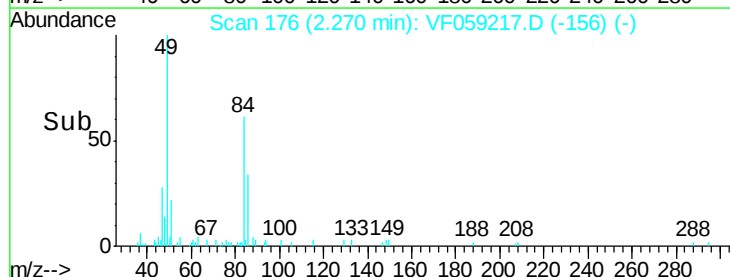
6000

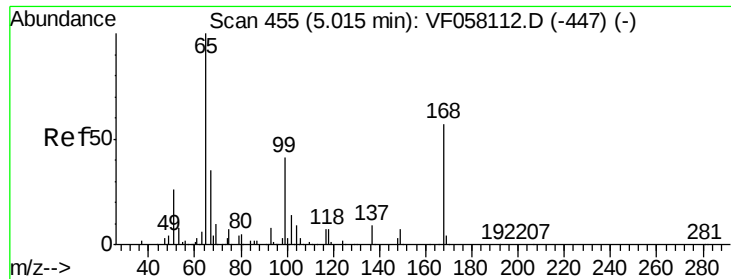
4000

2000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 60.86 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.00 min

Lab File: VF059217.D

Acq: 20 Jun 2018 6:17

Tot Ion: 65 Resp: 171088

Ion Ratio Lower Upper

65 100

67 48.7 0.0 97.0

Instrument :

MSVOA\_F

ClientSampled :

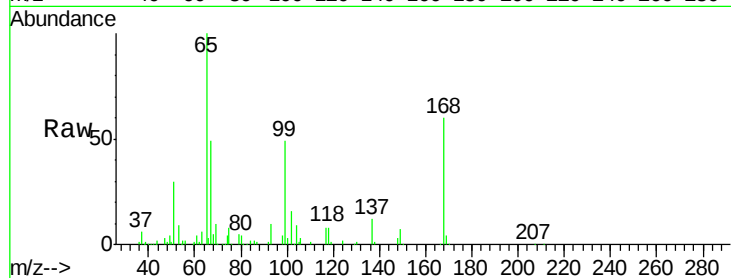
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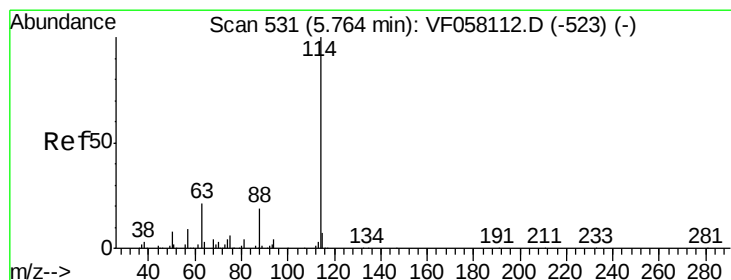
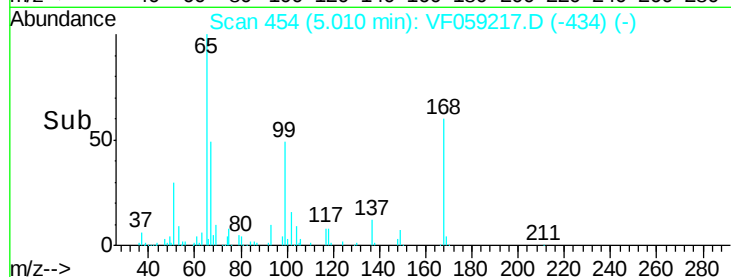
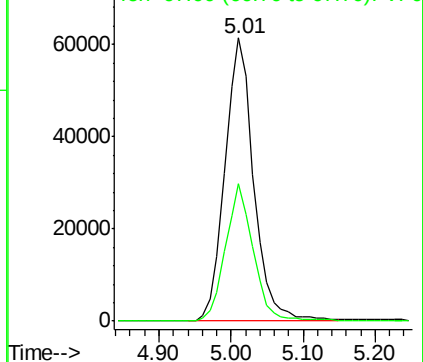
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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 530

Delta R.T. -0.00 min

Lab File: VF059217.D

Acq: 20 Jun 2018 6:17

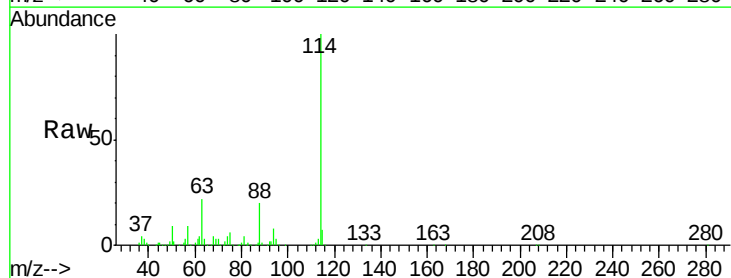
Tgt Ion: 114 Resp: 382175

Ion Ratio Lower Upper

114 100

63 21.8 0.0 41.6

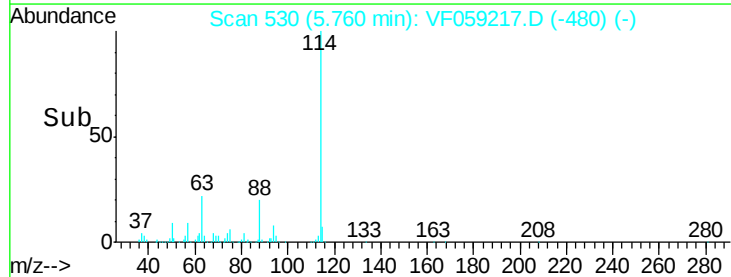
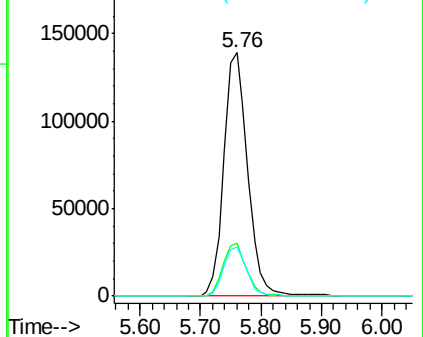
88 20.2 0.0 38.8

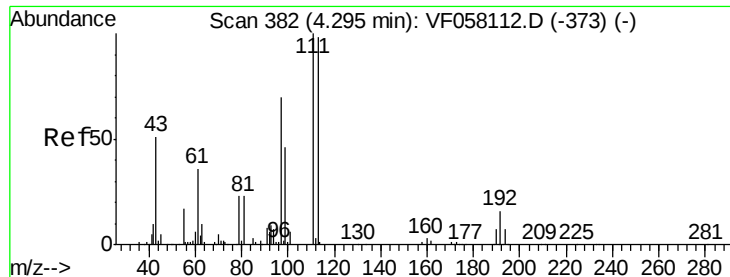


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





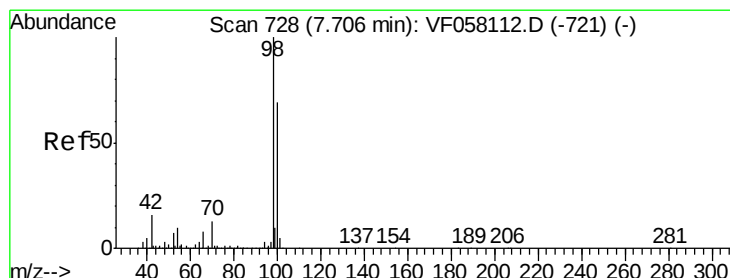
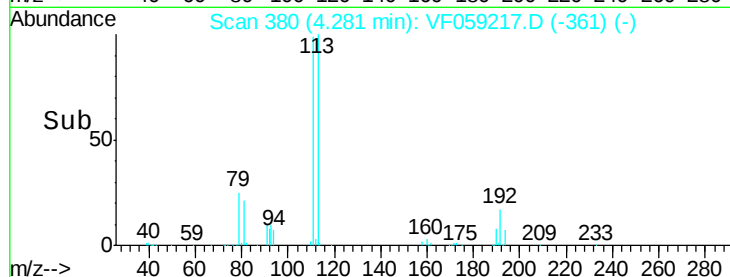
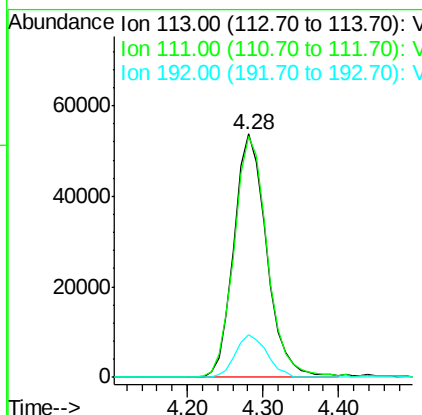
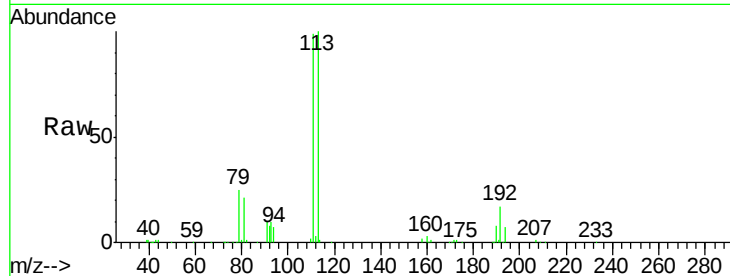
#35  
Dibromofluoromethane  
Concen: 60.18 ug/l  
RT: 4.28 min Scan# 380  
Delta R.T. -0.01 min  
Lab File: VF059217.D  
Acq: 20 Jun 2018 6:17

Instrument :  
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ClientSampleId :  
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| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 161371 |       |       |
| 111     | 99.1  | 81.3   | 121.9 |       |
| 192     | 17.3  | 12.7   | 19.1  |       |

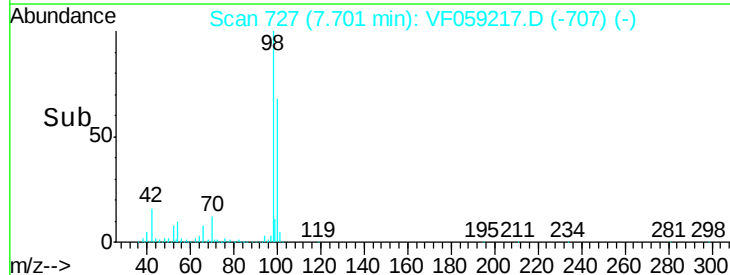
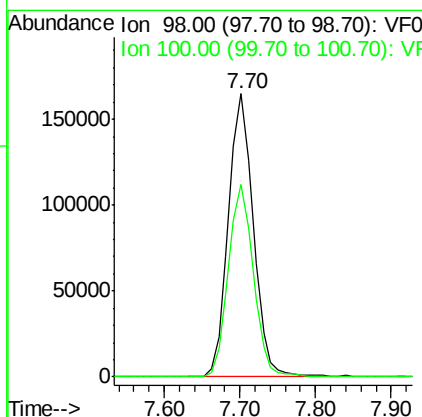
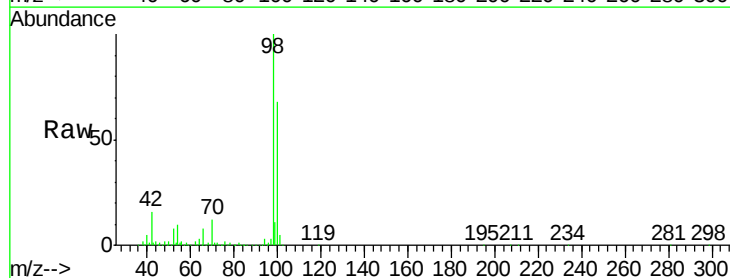
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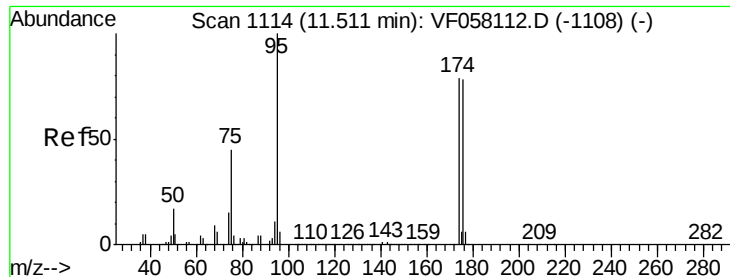
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#50  
Toluene-d8  
Concen: 47.85 ug/l  
RT: 7.70 min Scan# 727  
Delta R.T. -0.00 min  
Lab File: VF059217.D  
Acq: 20 Jun 2018 6:17

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 98      | 100   | 377000 |       |       |
| 100     | 68.1  | 55.6   | 83.4  |       |





#62

4-Bromofluorobenzene

Concen: 48.54 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF059217.D

Acq: 20 Jun 2018 6:17

Instrument :

MSVOA\_F

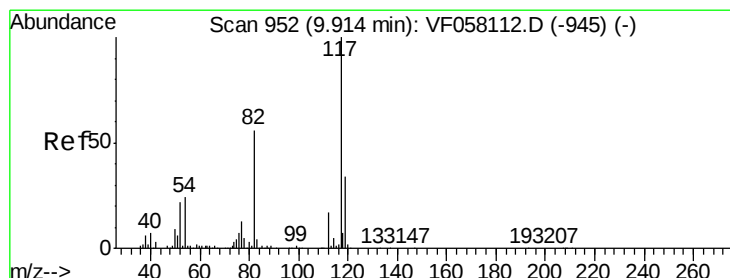
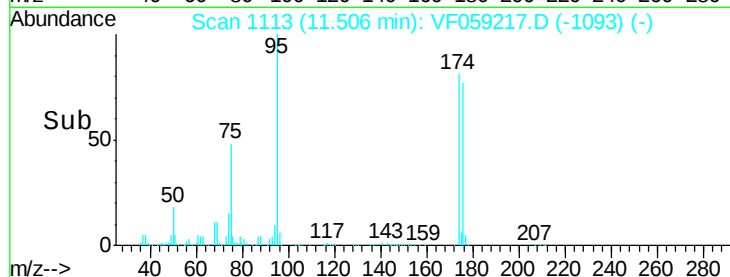
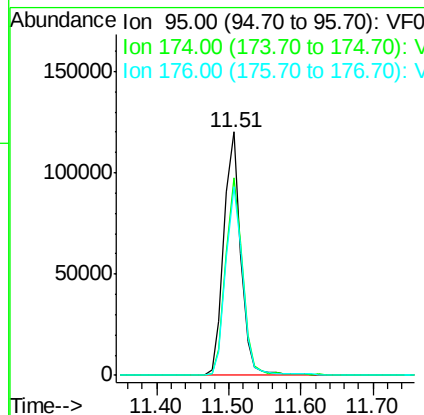
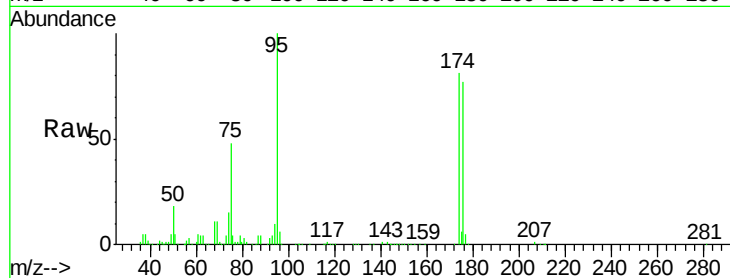
ClientSampled :

TP-9

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 196150 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 81.0  | 0.0   | 157.8  |
| 176       | 77.2  | 0.0   | 155.8  |

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#63

Chlorobenzene-d5

Concen: 50.00 ug/l

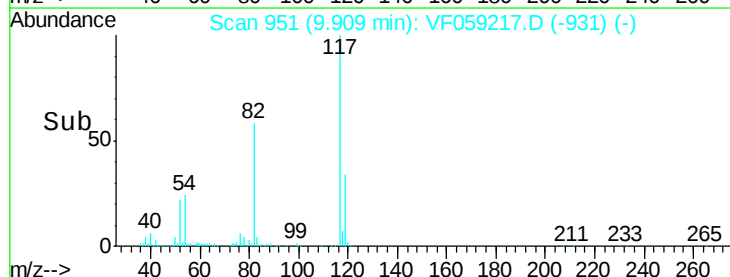
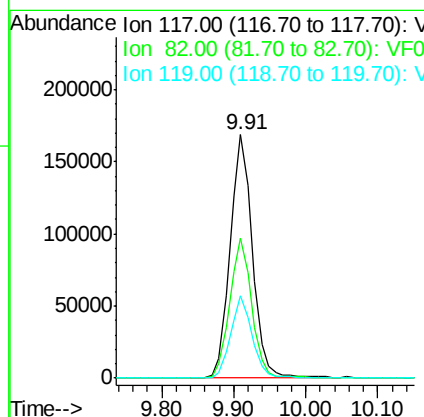
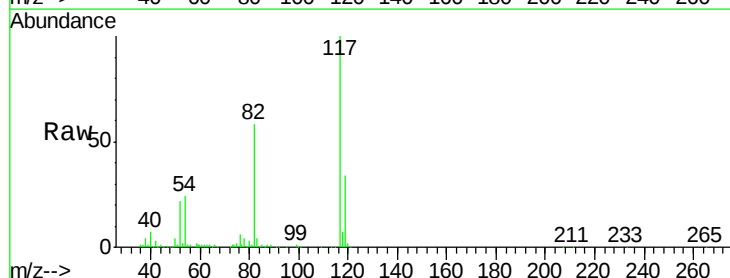
RT: 9.91 min Scan# 951

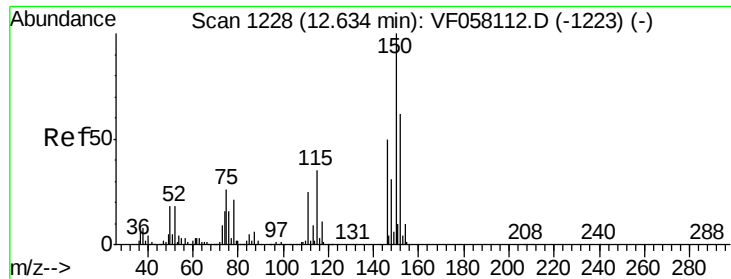
Delta R.T. -0.00 min

Lab File: VF059217.D

Acq: 20 Jun 2018 6:17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 363976 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 57.6  | 45.2  | 67.8   |
| 119       | 33.8  | 27.5  | 41.3   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.00 min

Lab File: VF059217.D

Acq: 20 Jun 2018 6:17

Instrument :

MSVOA\_F

ClientSampleId :

TP-9

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 205407 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 57.4  | 28.5  | 85.5   |
| 150       | 154.1 | 0.0   | 323.8  |

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