

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF121918\  
 Data File : VF061087.D  
 Acq On : 19 Dec 2018 16:14  
 Operator : VA/AP  
 Sample : J6388-08  
 Misc : 5.46g/5mL/MSVOA-F/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P001-SS009-1218-01

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Quant Time: Dec 20 03:03:13 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      | 4.86  | 168  | 201034   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 335347   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.77  | 117  | 281537   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 119910   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.83  | 65   | 94926    | 36.71 | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 73.42% |          |
| 35) Dibromofluoromethane    | 4.10  | 113  | 113717   | 42.33 | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 84.66% |          |
| 50) Toluene-d8              | 7.55  | 98   | 264882   | 34.79 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 69.58% |          |
| 62) 4-Bromofluorobenzene    | 11.41 | 95   | 111590   | 31.80 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 63.60% |          |

| Target Compounds | R.T. | QIon | Response | Conc   | Units | Qvalue |
|------------------|------|------|----------|--------|-------|--------|
| 16) Acetone      | 2.22 | 43   | 22739m   | 43.991 | ug/l  |        |

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

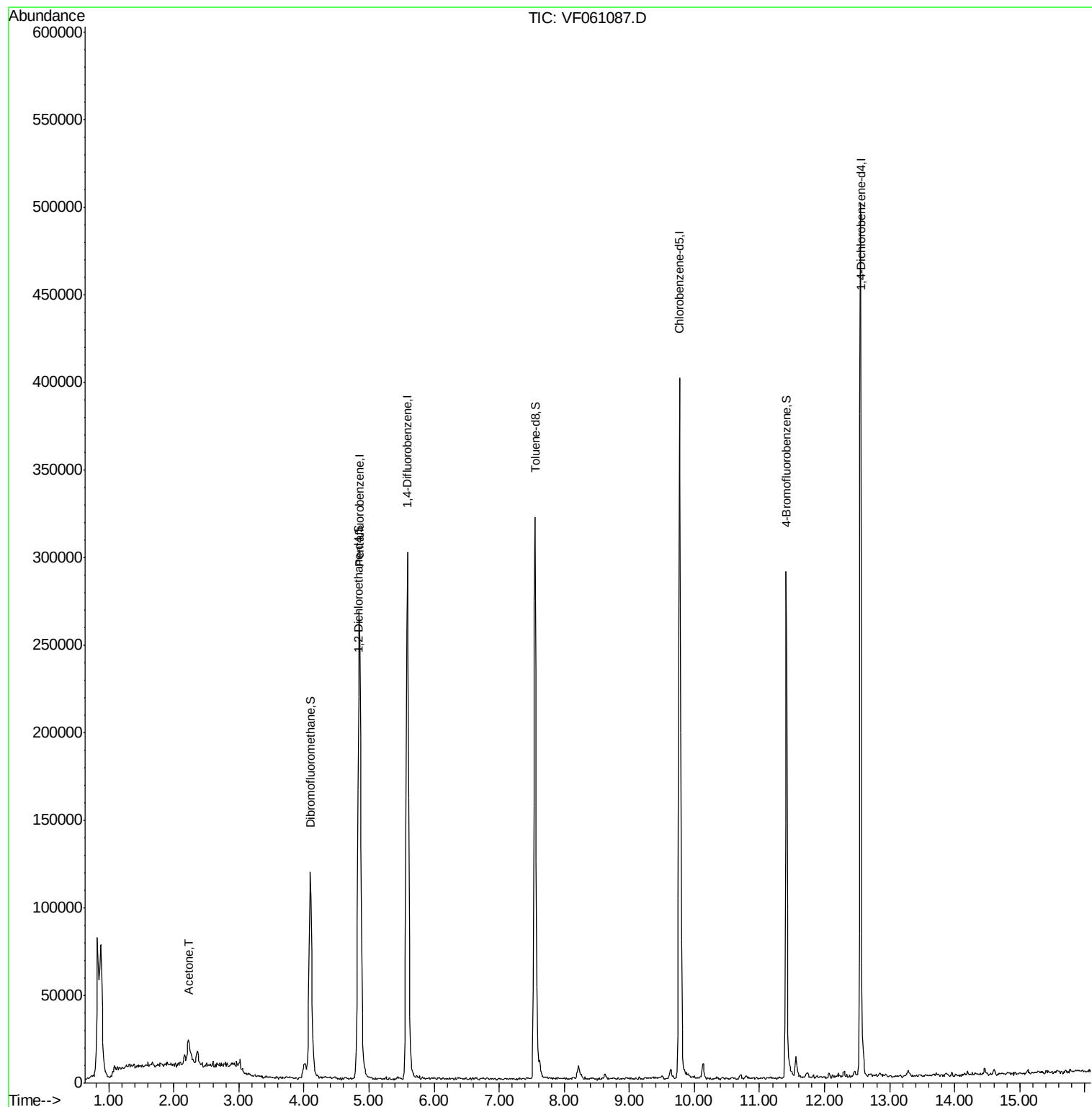
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF121918\  
Data File : VF061087.D  
Acq On : 19 Dec 2018 16:14  
Operator : VA/AP  
Sample : J6388-08  
Misc : 5.46g/5mL/MSVOA-F/SOIL  
ALS Vial : 12 Sample Multiplier: 1

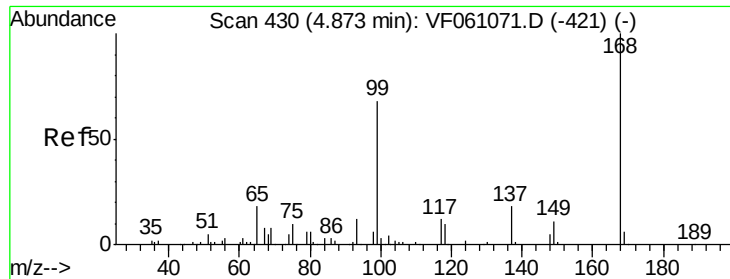
Instrument :  
MSVOA\_F  
ClientSampleId :  
P001-SS009-1218-01

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Quant Time: Dec 20 03:03:13 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: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF061087.D

Acq: 19 Dec 2018 16:14

Instrument :

MSVOA\_F

ClientSampleId :

P001-SS009-1218-01

Tgt Ion:168 Resp: 201034

Ion Ratio Lower Upper

168 100

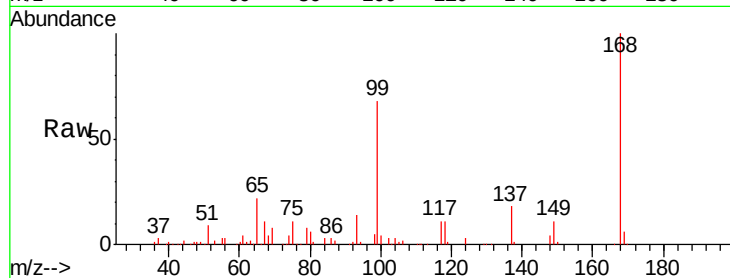
99 68.4 54.4 81.6

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

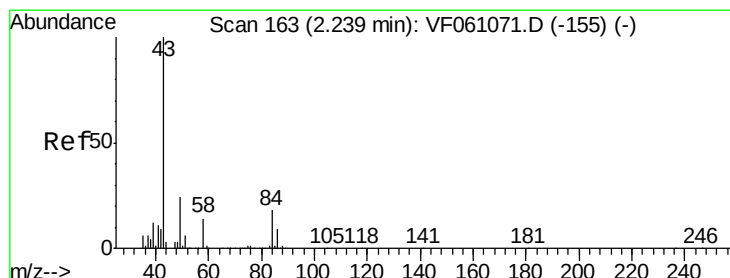
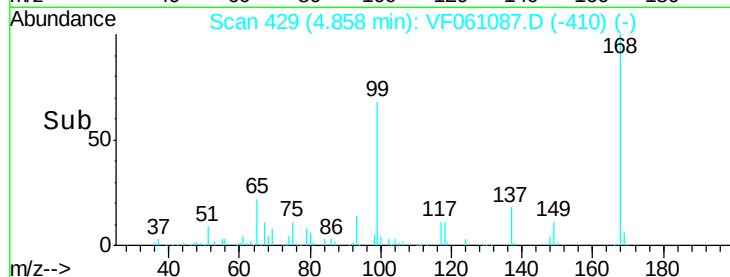
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 43.991 ug/l m

RT: 2.22 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF061087.D

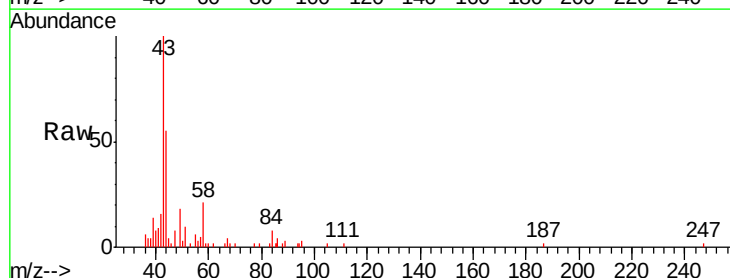
Acq: 19 Dec 2018 16:14

Tgt Ion: 43 Resp: 22739

Ion Ratio Lower Upper

43 100

58 21.5 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.22

8000

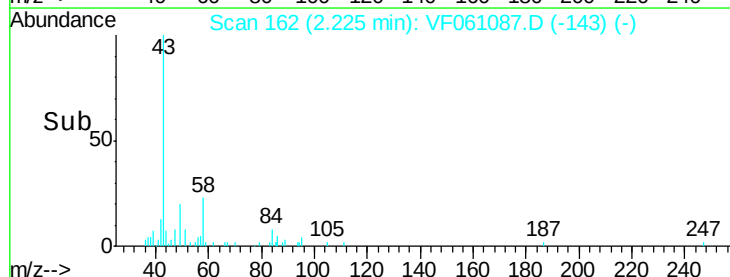
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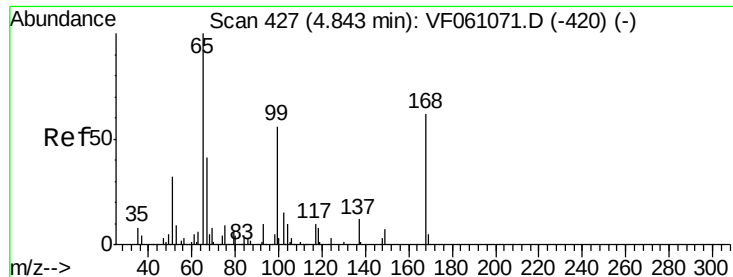
4000

2000

0

Time-->





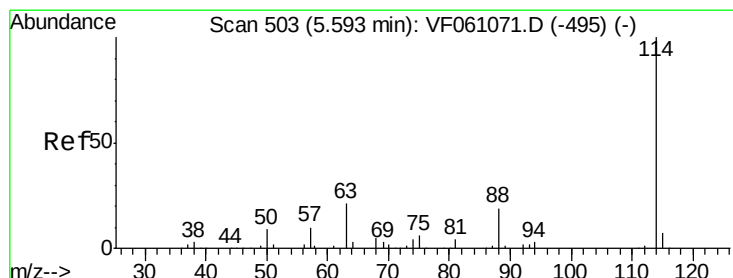
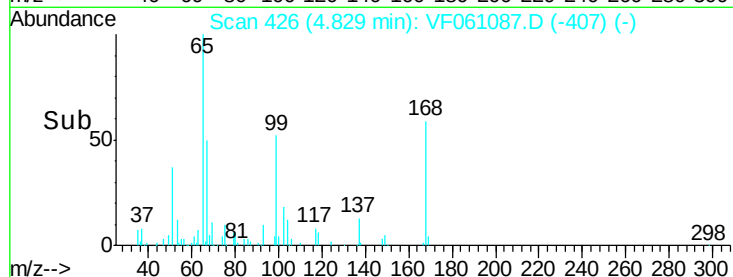
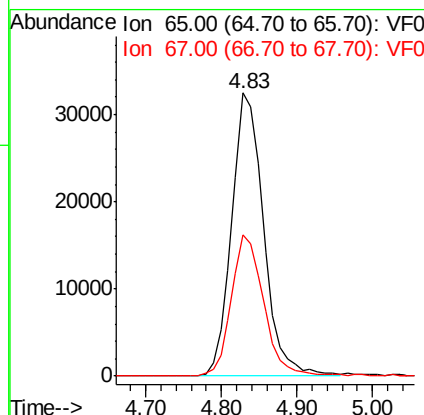
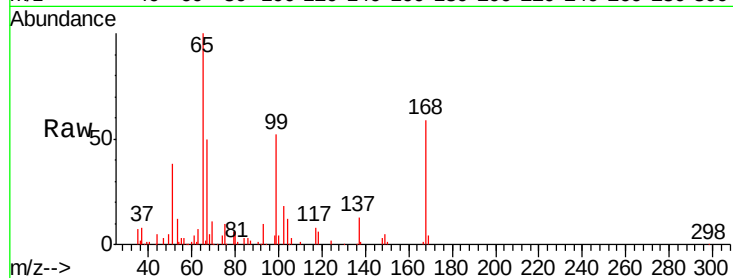
#33  
 1,2-Dichloroethane-d4  
 Concen: 36.713 ug/l  
 RT: 4.83 min Scan# 426  
 Delta R.T. -0.01 min  
 Lab File: VF061087.D  
 Acq: 19 Dec 2018 16:14

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P001-SS009-1218-01

Tgt Ion: 65 Resp: 94926  
 Ion Ratio Lower Upper  
 65 100  
 67 50.0 0.0 94.6

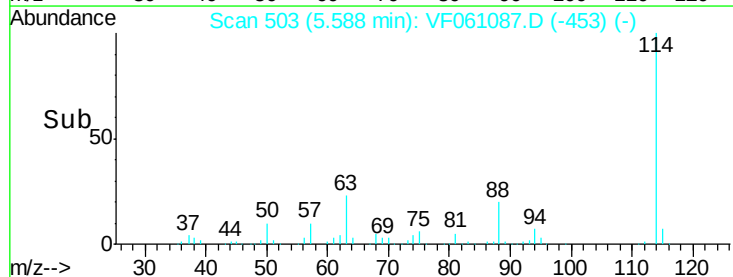
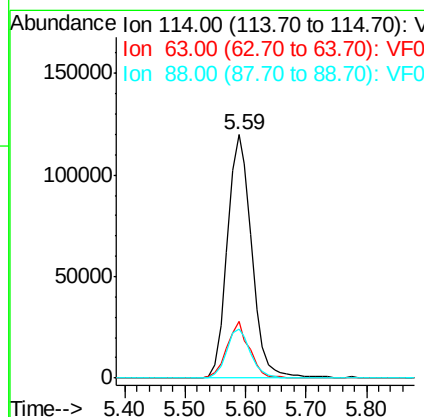
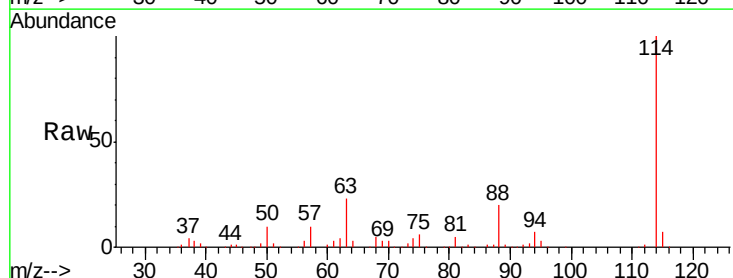
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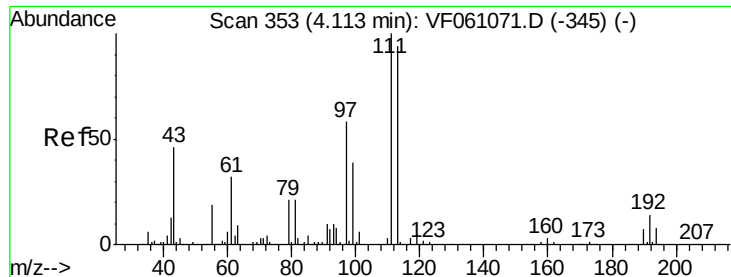
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.59 min Scan# 503  
 Delta R.T. -0.00 min  
 Lab File: VF061087.D  
 Acq: 19 Dec 2018 16:14

Tgt Ion: 114 Resp: 335347  
 Ion Ratio Lower Upper  
 114 100  
 63 23.1 0.0 41.6  
 88 20.3 0.0 38.0





#35

Dibromofluoromethane

Concen: 42.332 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF061087.D

Acq: 19 Dec 2018 16:14

Instrument :

MSVOA\_F

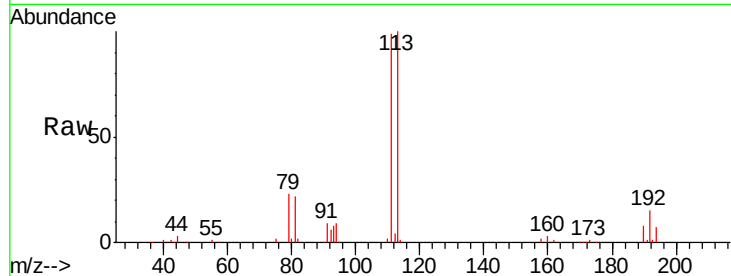
ClientSampleId :

P001-SS009-1218-01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 113717 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 99.3  | 85.2  | 127.8  |
| 192       | 16.0  | 12.8  | 19.2   |

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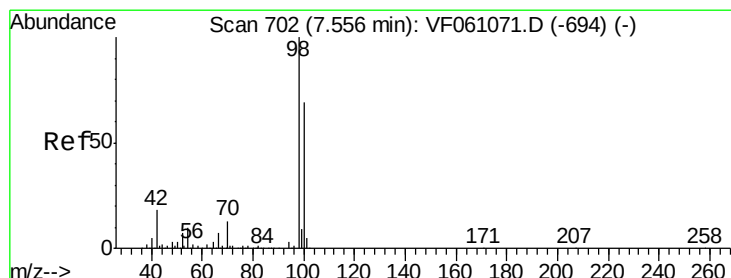
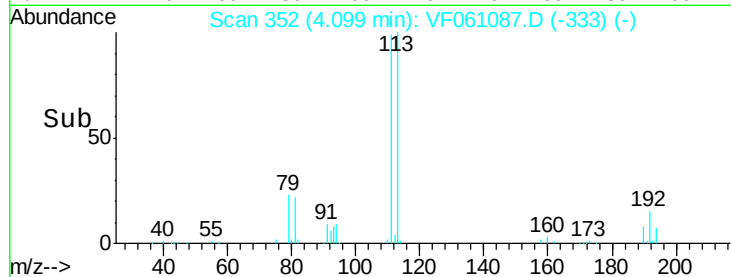
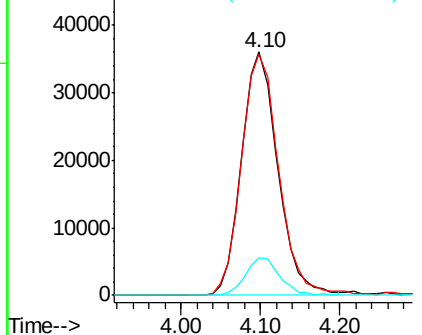
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Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#50

Toluene-d8

Concen: 34.795 ug/l

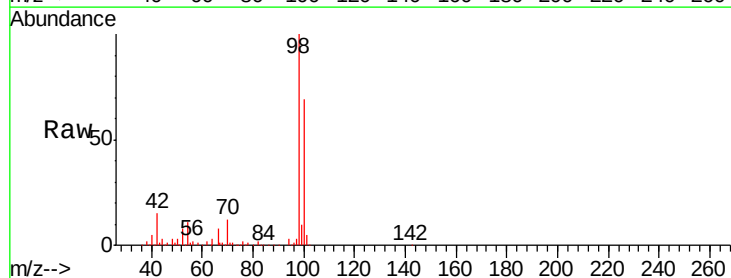
RT: 7.55 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF061087.D

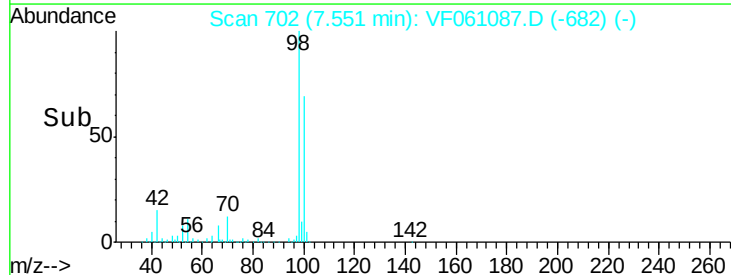
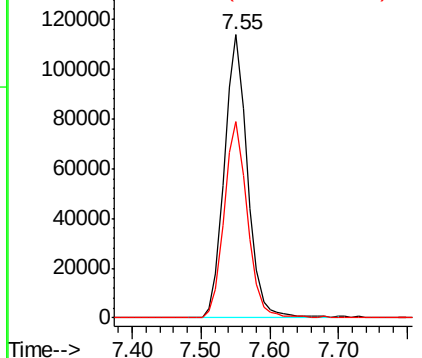
Acq: 19 Dec 2018 16:14

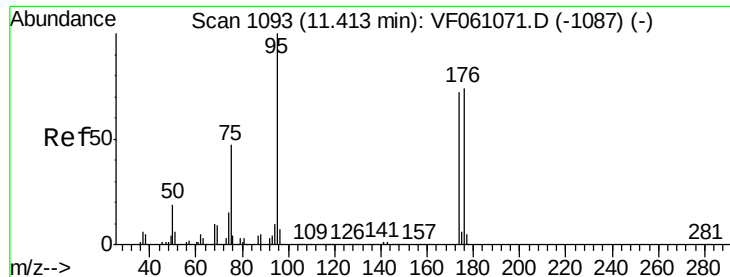
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 98    | Resp: | 264882 |
| Ion Ratio | Lower | Upper |        |
| 98        | 100   |       |        |
| 100       | 69.2  | 55.3  | 82.9   |



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF





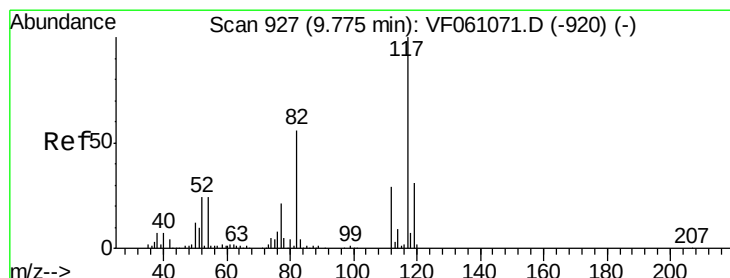
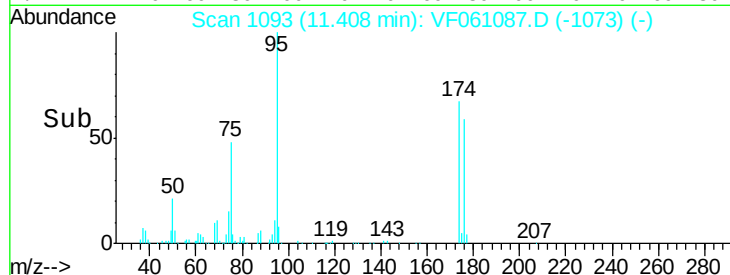
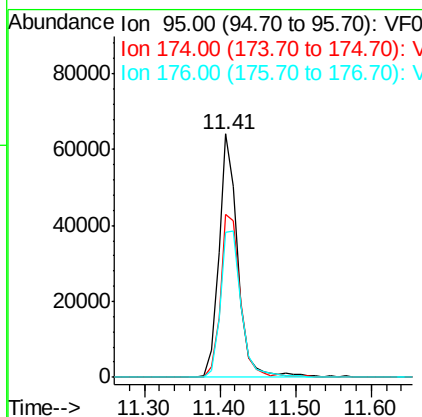
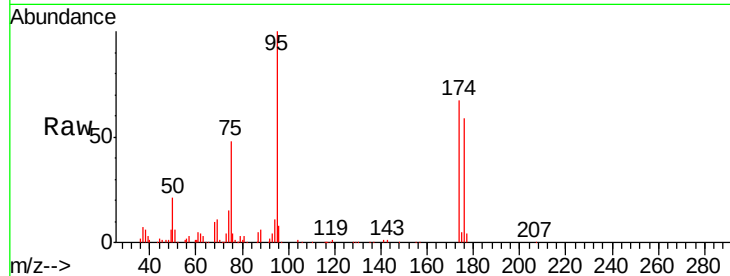
#62  
4-Bromofluorobenzene  
Concen: 31.796 ug/l  
RT: 11.41 min Scan# 1093  
Delta R.T. -0.00 min  
Lab File: VF061087.D  
Acq: 19 Dec 2018 16:14

Instrument :  
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| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 111590 |       |       |
| 174     | 66.8  | 0.0    | 143.8 |       |
| 176     | 59.4  | 0.0    | 147.6 |       |

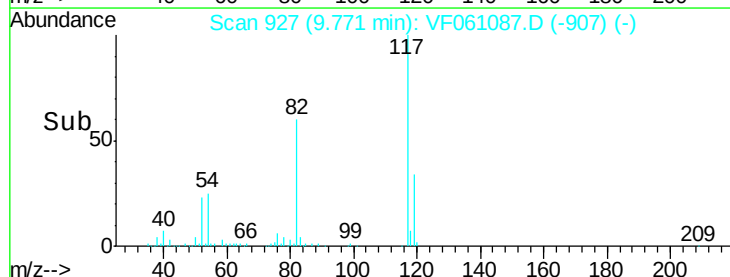
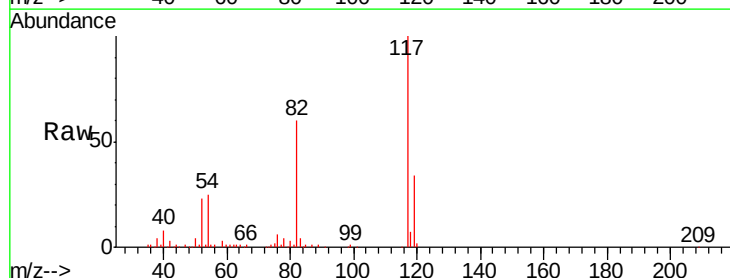
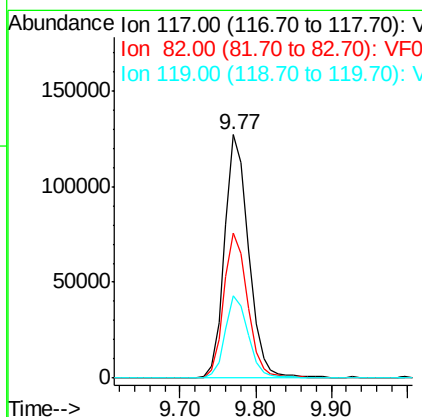
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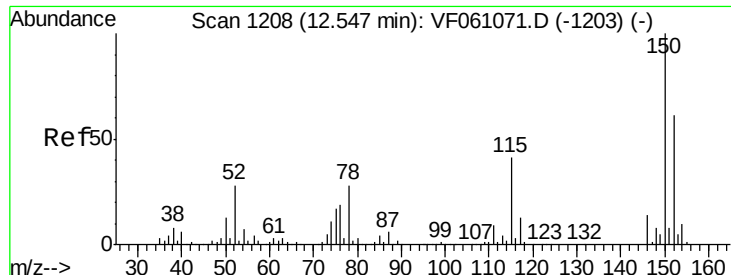
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#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.77 min Scan# 927  
Delta R.T. -0.00 min  
Lab File: VF061087.D  
Acq: 19 Dec 2018 16:14

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 281537 |       |       |
| 82      | 59.6  | 45.0   | 67.4  |       |
| 119     | 33.7  | 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: VF061087.D  
 Acq: 19 Dec 2018 16:14

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P001-SS009-1218-01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 119910 |       |       |
| 115     | 61.7  | 33.3   | 99.9  |       |
| 150     | 161.2 | 0.0    | 328.2 |       |

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