

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100518\  
 Data File : VF060463.D  
 Acq On : 5 Oct 2018 19:09  
 Operator : VA/AP  
 Sample : J5270-02RE  
 Misc : 4.98/5mL/MSVOA F/SOIL  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 STOCK-PILE-ARE

Quant Time: Oct 08 09:56:14 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 11:42:56 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.03  | 168  | 40677    | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 5.75  | 114  | 45042    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.90  | 117  | 12730    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 3180     | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 5.01   | 65  | 24526    | 38.53 | ug/l    | 0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 77.06%  |      |
| 35) Dibromofluoromethane    | 4.27   | 113 | 24125    | 57.01 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 114.02% |      |
| 50) Toluene-d8              | 7.69   | 98  | 20210    | 19.39 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 38.78%  |      |
| 62) 4-Bromofluorobenzene    | 11.49  | 95  | 4003     | 8.41  | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 16.82%  |      |

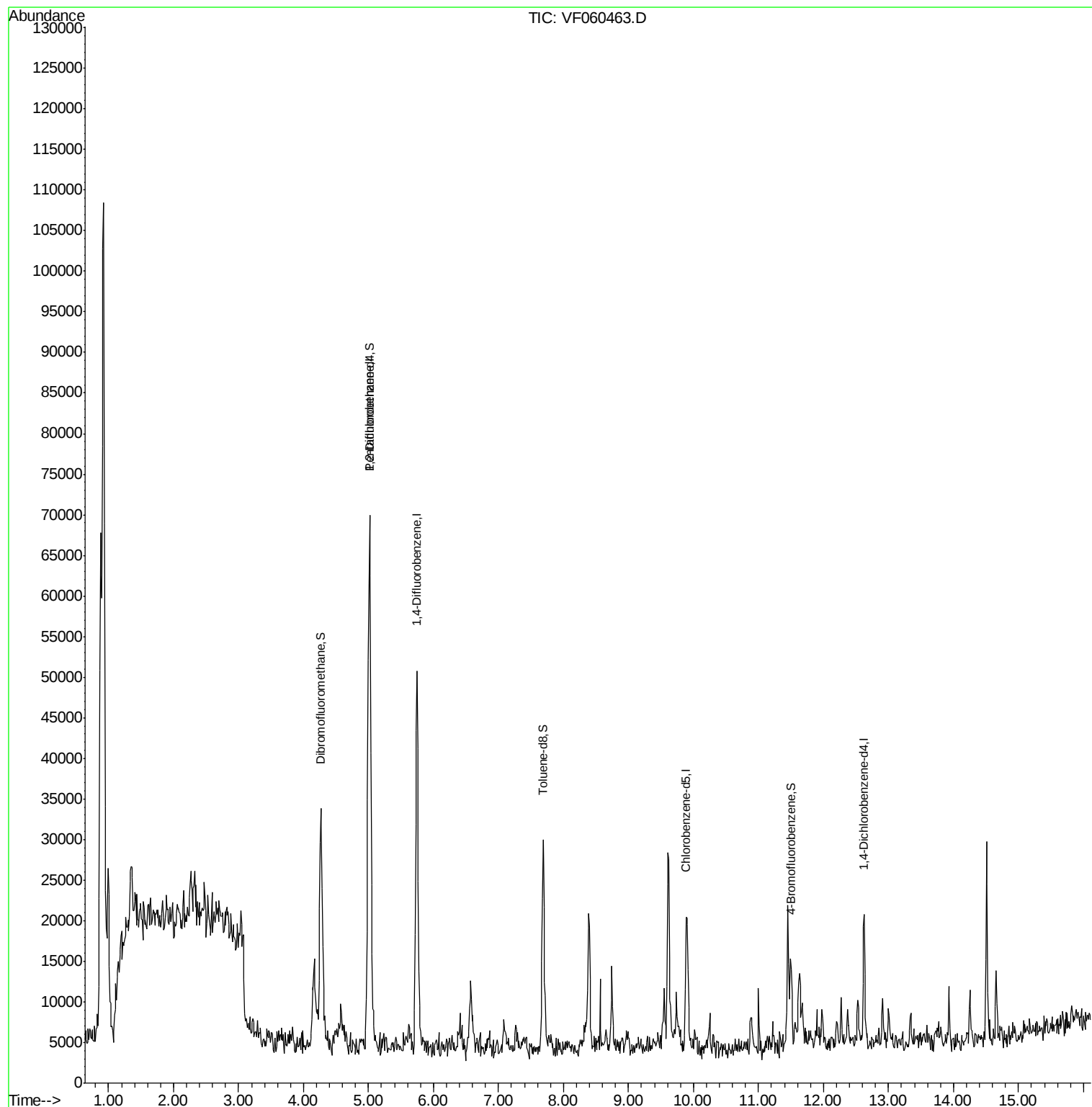
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

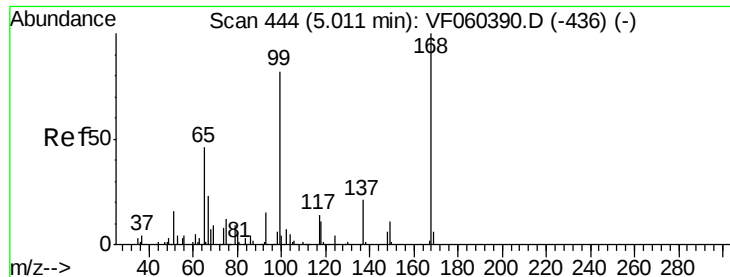
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 02 11:42:56 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. 0.01 min

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Acq: 5 Oct 2018 19:09

Instrument :

MSVOA\_F

ClientSampleId :

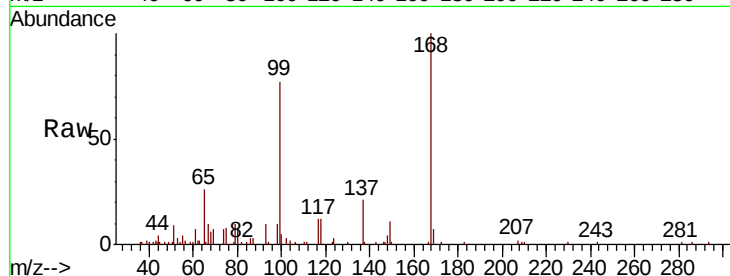
STOCK-PILE-ARE

Tot Ion:168 Resp: 40677

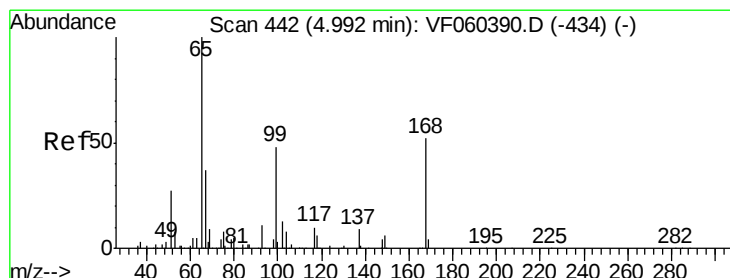
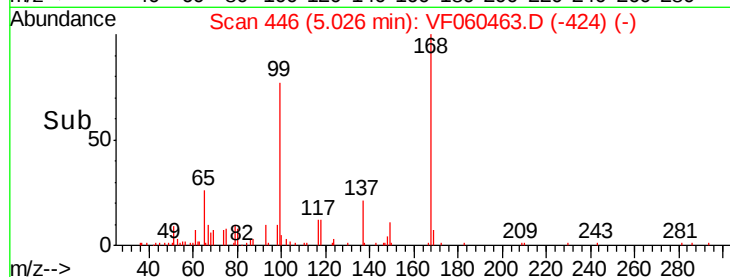
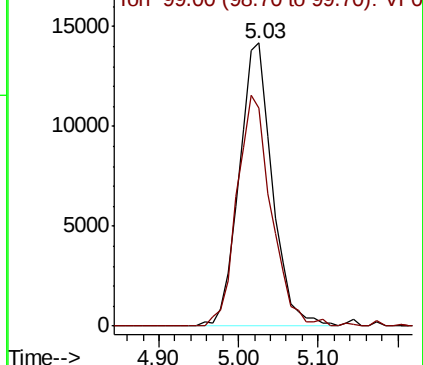
Ion Ratio Lower Upper

168 100

99 76.9 65.3 97.9



Abundance Ion 168.00 (167.70 to 168.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 38.533 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.01 min

Lab File: VF060463.D

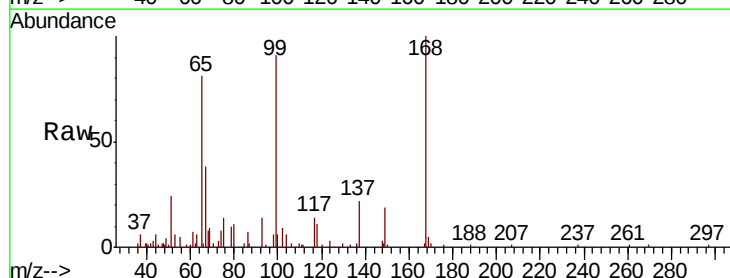
Acq: 5 Oct 2018 19:09

Tgt Ion: 65 Resp: 24526

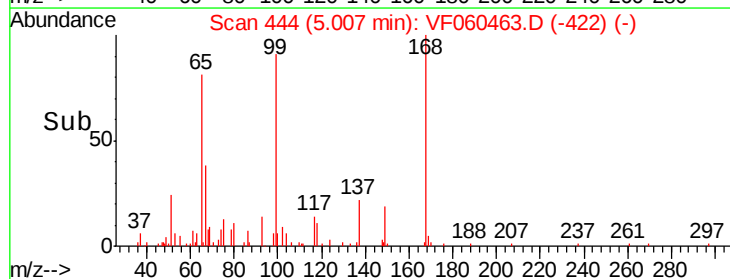
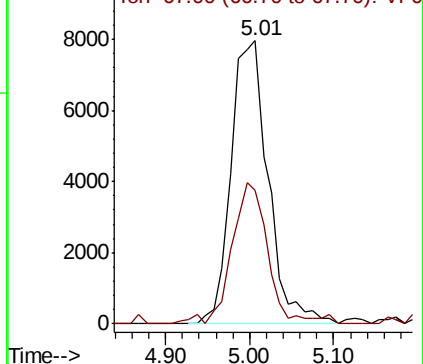
Ion Ratio Lower Upper

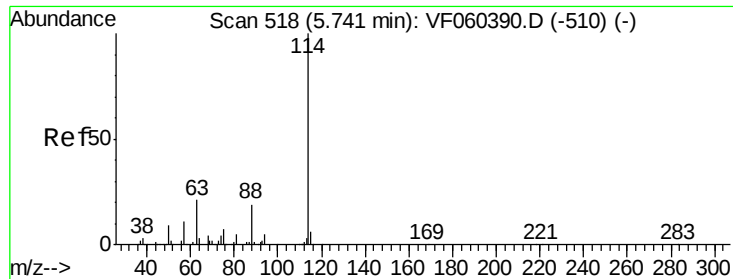
65 100

67 47.3 0.0 89.4



Abundance Ion 65.00 (64.70 to 65.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 519

Delta R.T. 0.01 min

Lab File: VF060463.D

Acq: 5 Oct 2018 19:09

Instrument :

MSVOA\_F

ClientSampleId :

STOCK-PILE-ARE

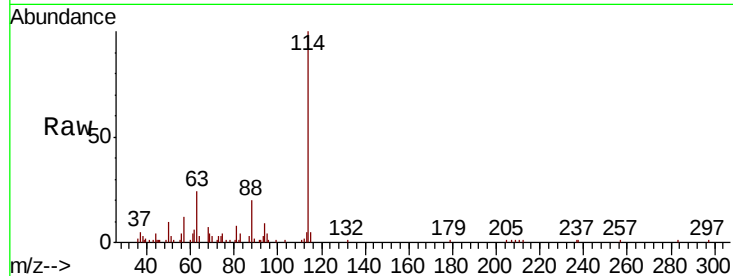
Tot Ion:114 Resp: 45042

Ion Ratio Lower Upper

114 100

63 24.0 0.0 42.2

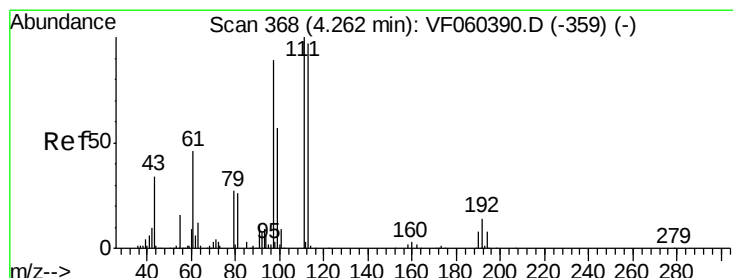
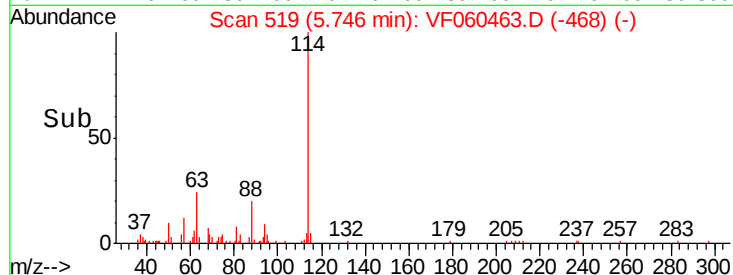
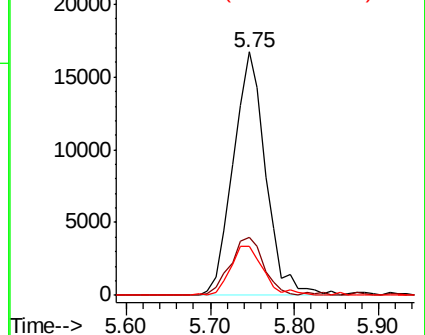
88 20.0 0.0 38.8



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: 57.014 ug/l

RT: 4.27 min Scan# 369

Delta R.T. 0.01 min

Lab File: VF060463.D

Acq: 5 Oct 2018 19:09

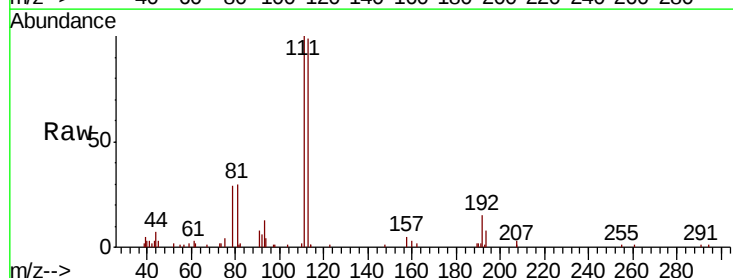
Tgt Ion:113 Resp: 24125

Ion Ratio Lower Upper

113 100

111 99.8 82.3 123.5

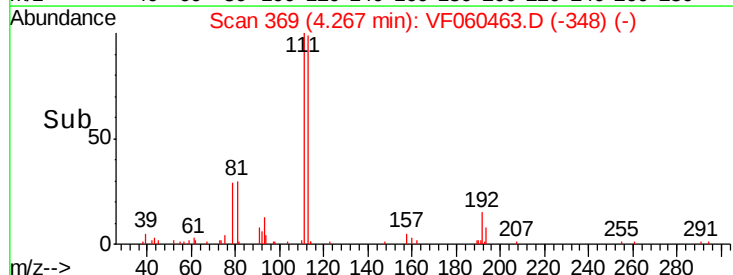
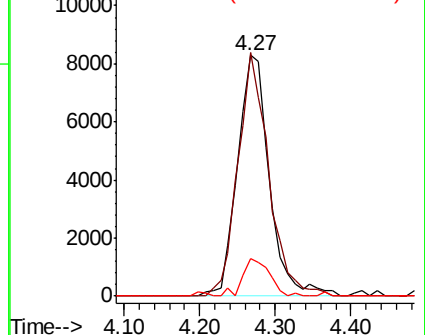
192 15.4 11.8 17.6

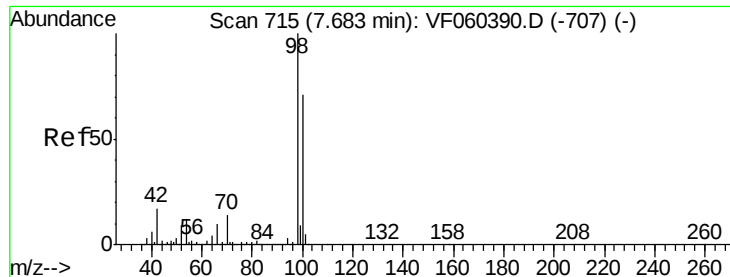


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

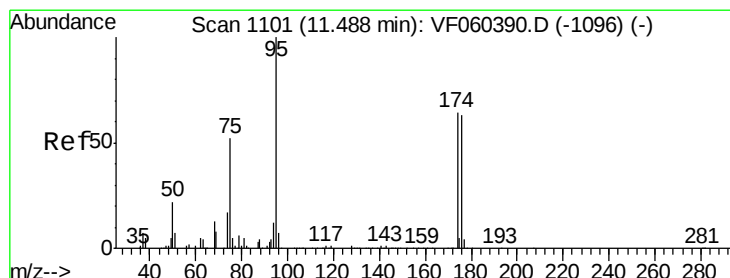
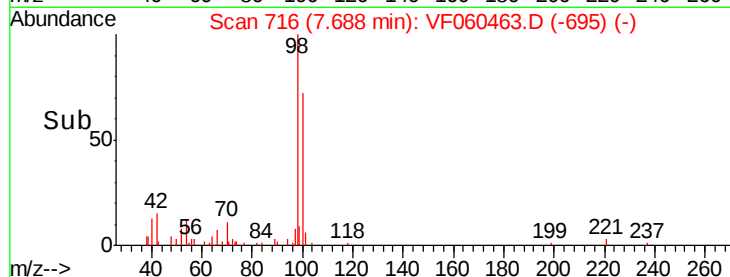
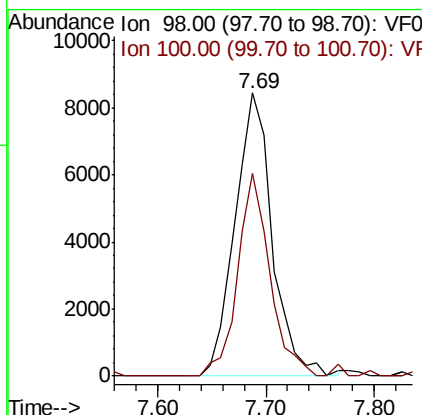
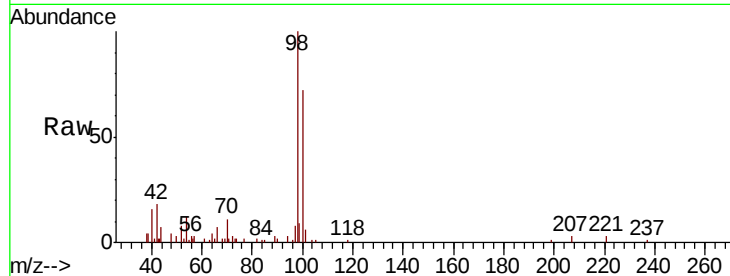




#50  
Toluene-d8  
Concen: 19.393 ug/l  
RT: 7.69 min Scan# 716  
Delta R.T. 0.01 min  
Lab File: VF060463.D  
Acq: 5 Oct 2018 19:09

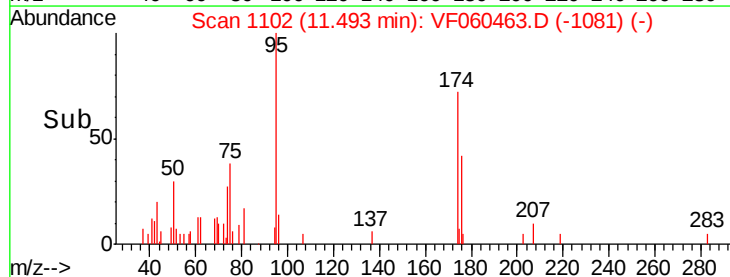
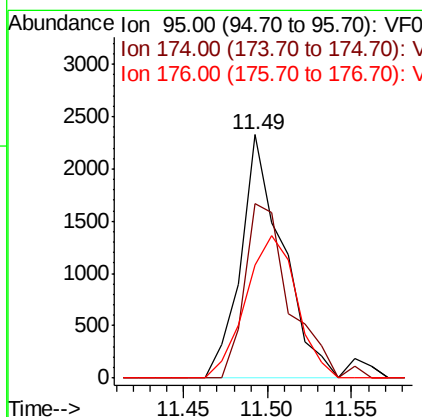
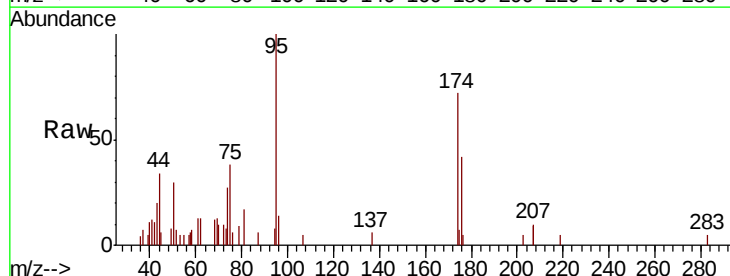
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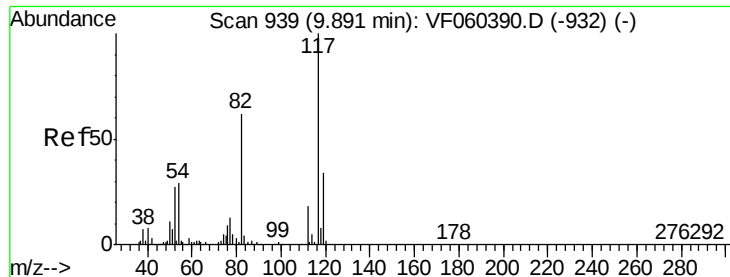
Tot Ion: 98 Resp: 20210  
Ion Ratio Lower Upper  
98 100  
100 71.7 56.5 84.7



#62  
4-Bromofluorobenzene  
Concen: 8.413 ug/l  
RT: 11.49 min Scan# 1102  
Delta R.T. 0.01 min  
Lab File: VF060463.D  
Acq: 5 Oct 2018 19:09

Tgt Ion: 95 Resp: 4003  
Ion Ratio Lower Upper  
95 100  
174 71.9 0.0 129.0  
176 46.6 0.0 125.6

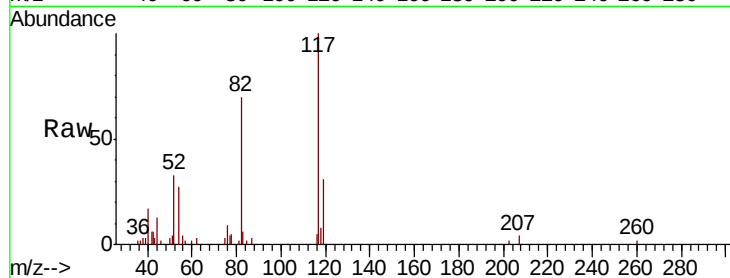




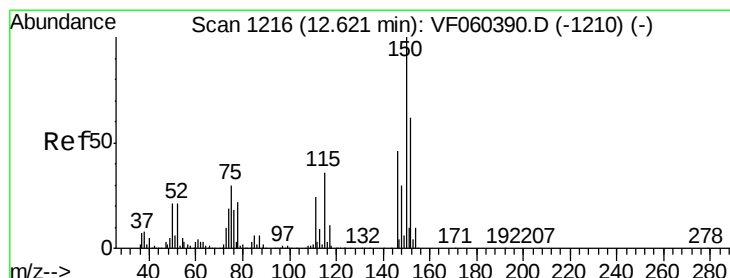
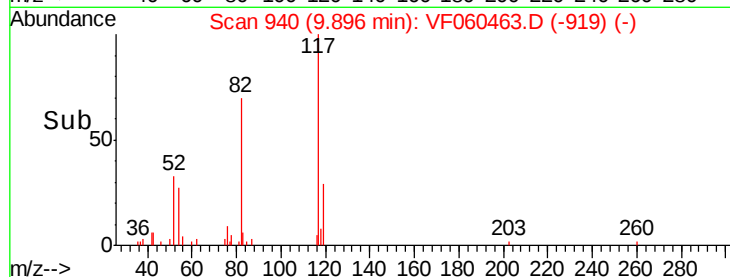
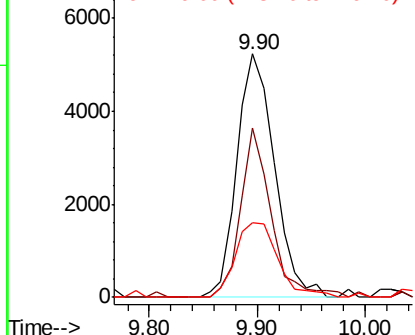
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.90 min Scan# 940  
Delta R.T. 0.01 min  
Lab File: VF060463.D  
Acq: 5 Oct 2018 19:09

Instrument :  
MSVOA\_F  
ClientSampleId :  
STOCK-PILE-ARE

Tot Ion:117 Resp: 12730  
Ion Ratio Lower Upper  
117 100  
82 69.7 49.5 74.3  
119 30.8 27.0 40.6

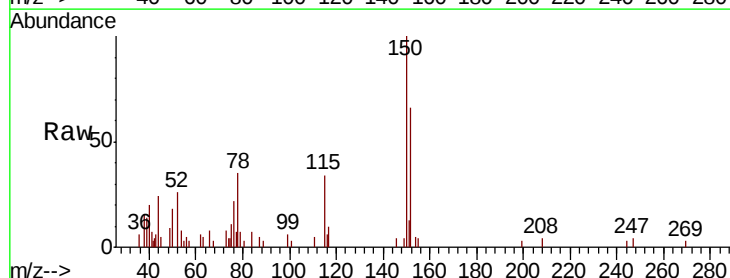


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.62 min Scan# 1216  
Delta R.T. -0.00 min  
Lab File: VF060463.D  
Acq: 5 Oct 2018 19:09

Tgt Ion:152 Resp: 3180  
Ion Ratio Lower Upper  
152 100  
115 51.5 28.6 85.8  
150 151.9 0.0 324.6



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

