

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080618\  
 Data File : VU025884.D  
 Acq On : 06 Aug 2018 14:33  
 Operator : MD/SY  
 Sample : J4257-06  
 Misc : 8.66g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FK-BPM-03-001-CRE

Quant Time: Aug 07 01:13:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 00:49:55 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.98  | 168  | 175073   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 284708   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 287595   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 179957   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 145180   | 53.22 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.44% |      |
| 35) Dibromofluoromethane    | 4.89   | 113 | 119789   | 48.38 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.76%  |      |
| 50) Toluene-d8              | 7.57   | 98  | 420708   | 48.55 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.10%  |      |
| 62) 4-Bromofluorobenzene    | 10.31  | 95  | 171883   | 51.10 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.20% |      |

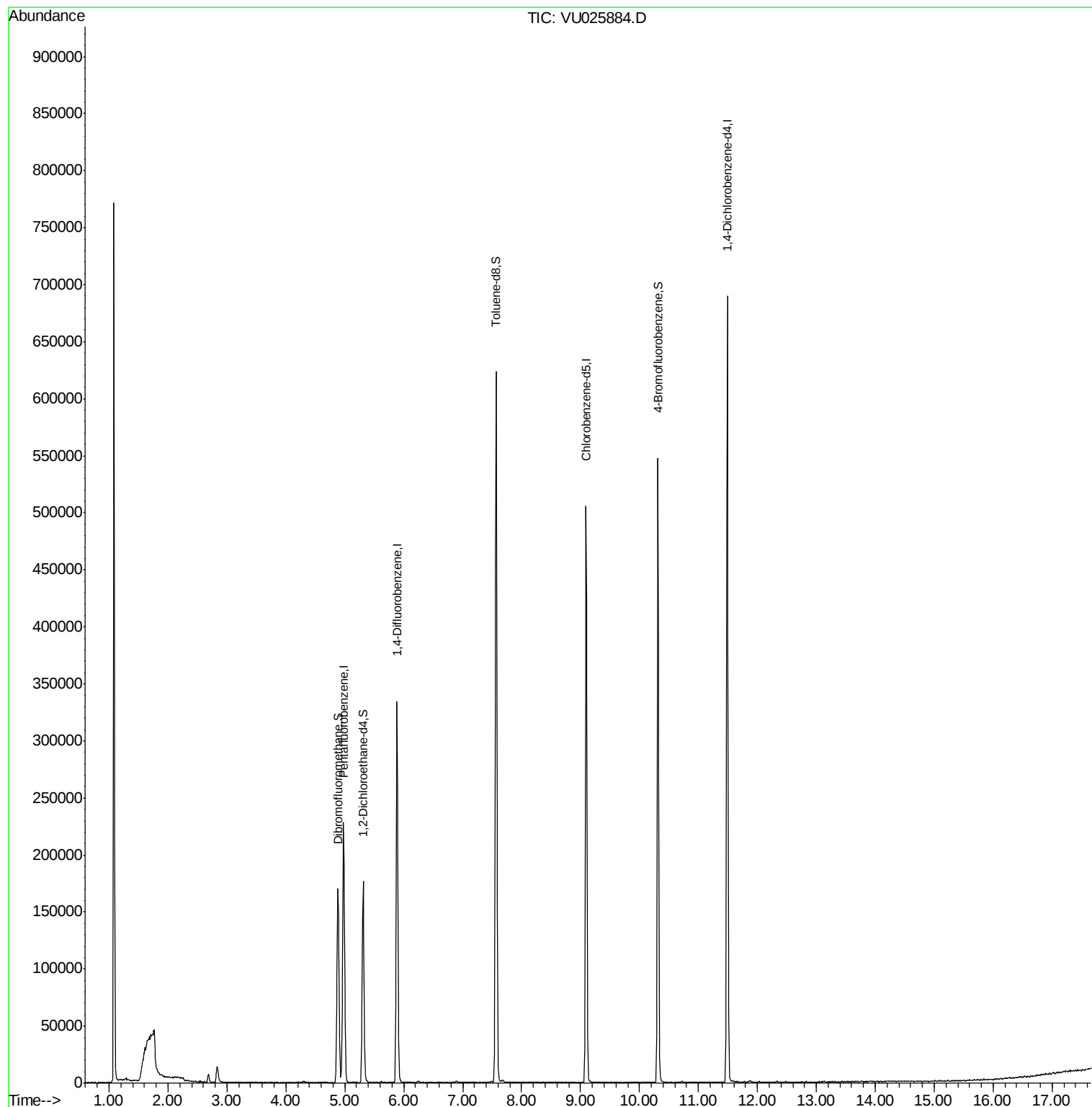
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

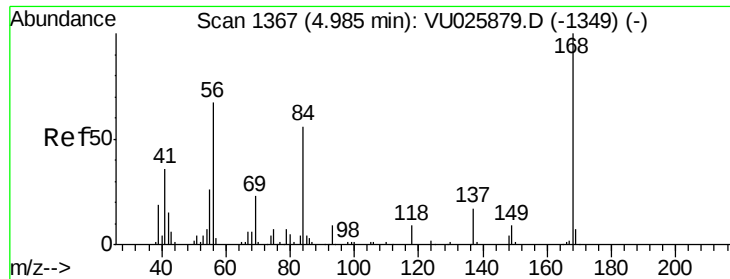
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Aug 07 00:49:55 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VU025884.D

Acq: 06 Aug 2018 14:33

Instrument :

MSVOA\_U

ClientSampleId :

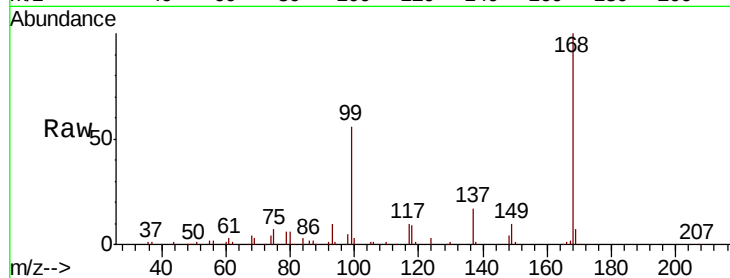
FK-BPM-03-001-CRE

Tot Ion:168 Resp: 175073

Ion Ratio Lower Upper

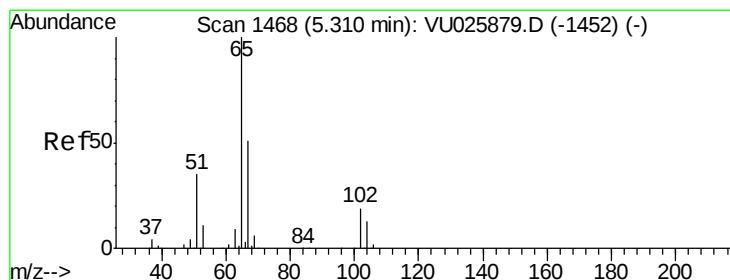
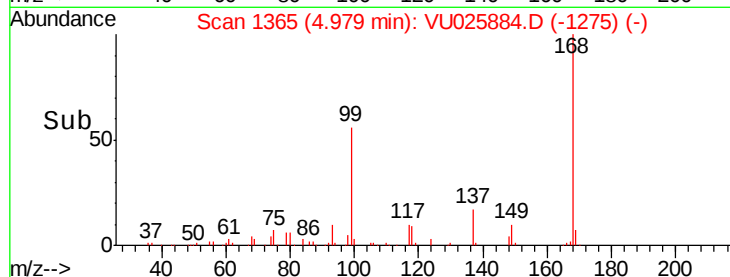
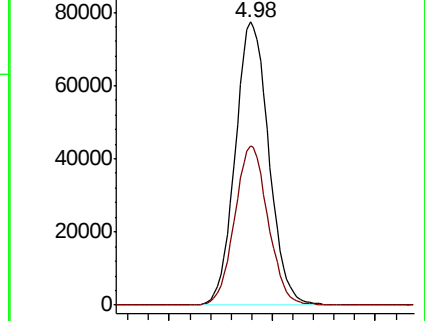
168 100

99 56.2 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025879.D

Ion 98.90 (98.60 to 99.60): VU025879.D



#33

1,2-Dichloroethane-d4

Concen: 53.22 ug/l

RT: 5.31 min Scan# 1468

Delta R.T. -0.00 min

Lab File: VU025884.D

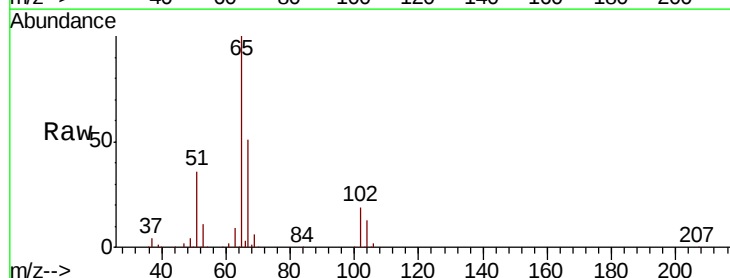
Acq: 06 Aug 2018 14:33

Tgt Ion: 65 Resp: 145180

Ion Ratio Lower Upper

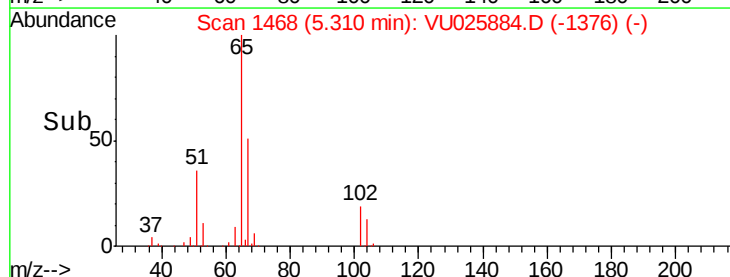
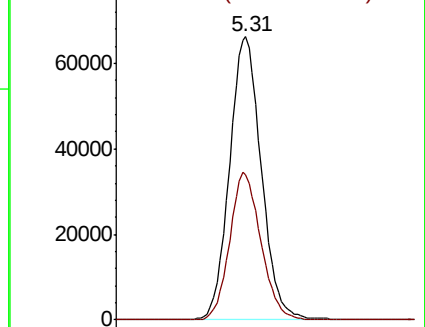
65 100

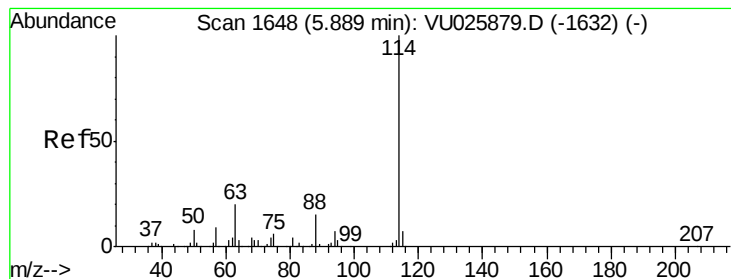
67 51.0 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU025879.D

Ion 66.90 (66.60 to 67.60): VU025879.D





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1647

Delta R.T. -0.00 min

Lab File: VU025884.D

Acq: 06 Aug 2018 14:33

Instrument :

MSVOA\_U

ClientSampleId :

FK-BPM-03-001-CRE

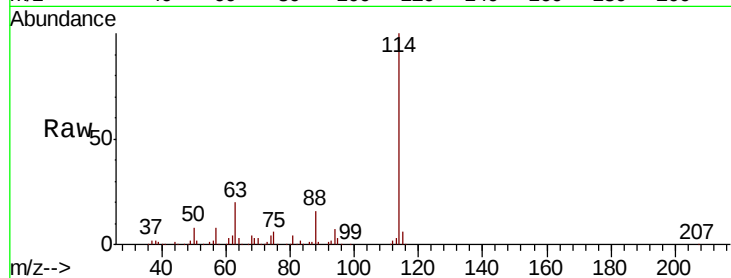
Tot Ion:114 Resp: 284708

Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.6

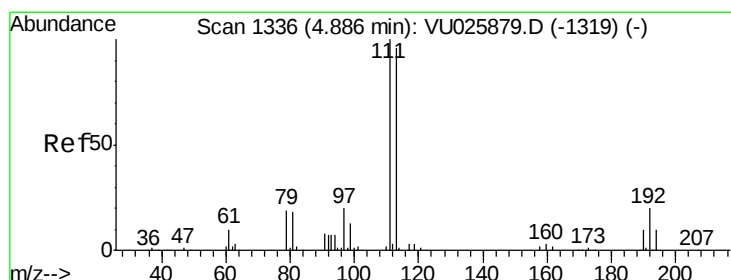
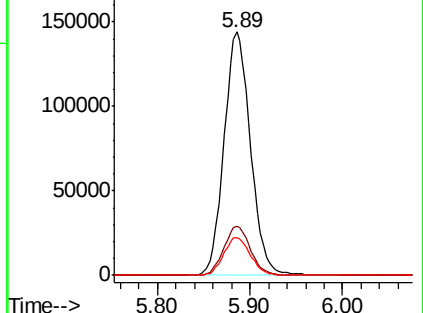
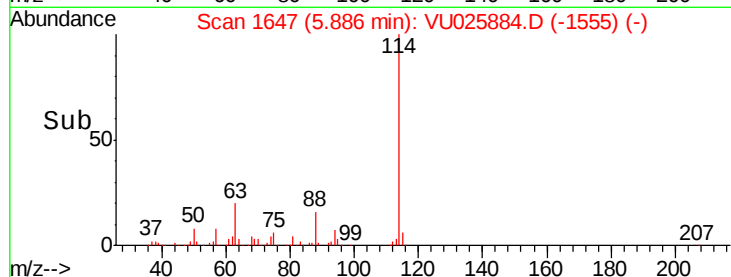
88 15.6 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 48.38 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU025884.D

Acq: 06 Aug 2018 14:33

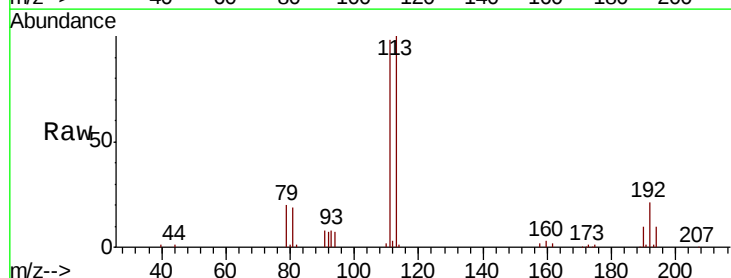
Tgt Ion:113 Resp: 119789

Ion Ratio Lower Upper

113 100

111 102.6 81.7 122.5

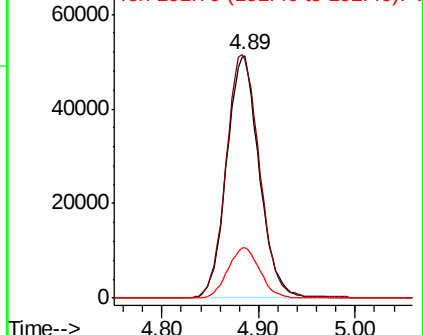
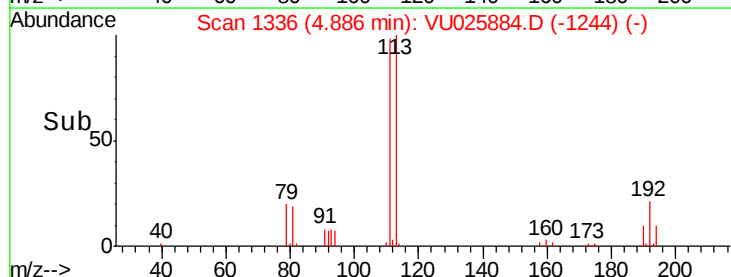
192 20.4 17.1 25.7

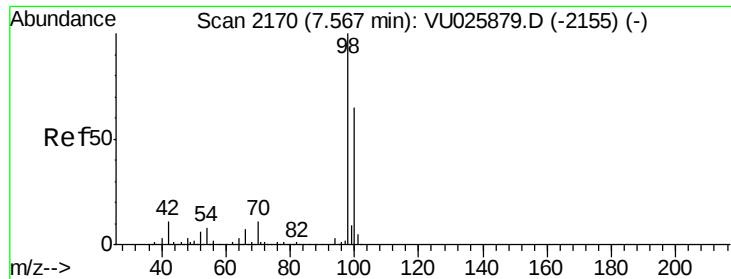


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

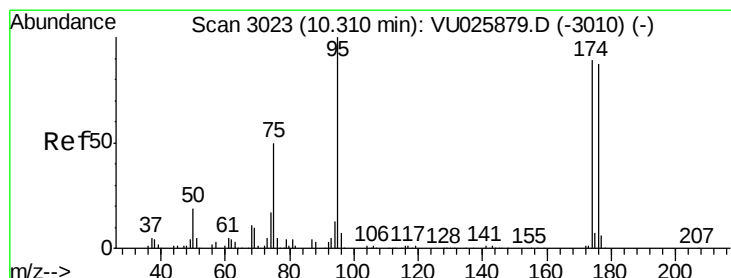
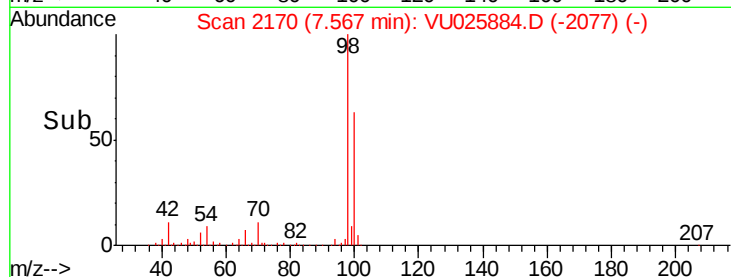
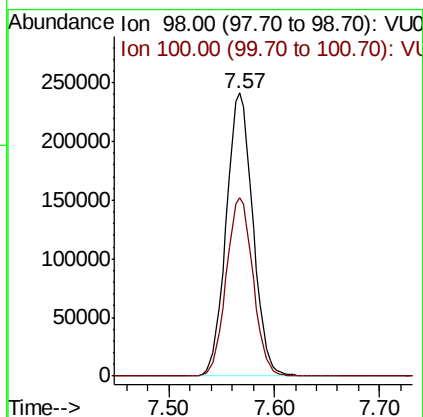
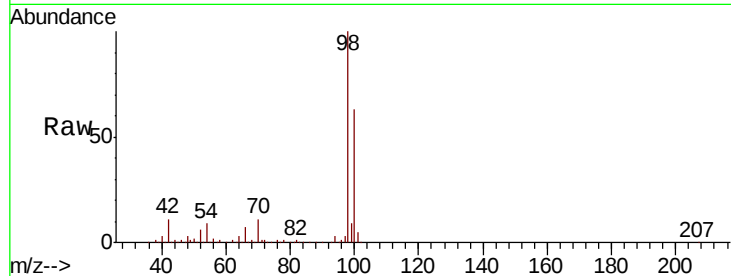




#50  
Toluene-d8  
Concen: 48.55 ug/l  
RT: 7.57 min Scan# 2170  
Delta R.T. 0.00 min  
Lab File: VU025884.D  
Acq: 06 Aug 2018 14:33

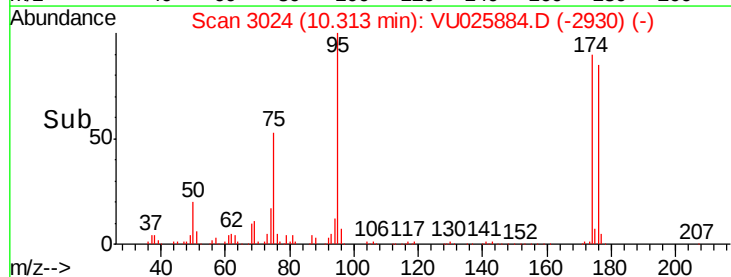
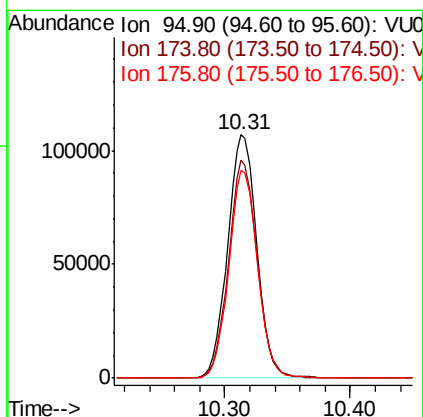
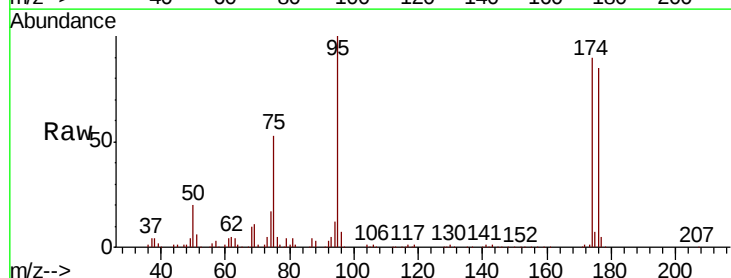
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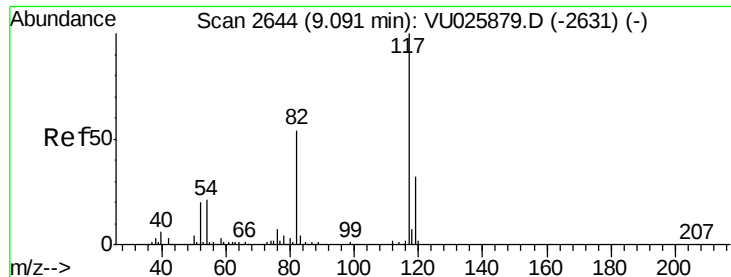
Tot Ion: 98 Resp: 420708  
Ion Ratio Lower Upper  
98 100  
100 63.5 51.1 76.7



#62  
4-Bromofluorobenzene  
Concen: 51.10 ug/l  
RT: 10.31 min Scan# 3024  
Delta R.T. 0.00 min  
Lab File: VU025884.D  
Acq: 06 Aug 2018 14:33

Tgt Ion: 95 Resp: 171883  
Ion Ratio Lower Upper  
95 100  
174 88.1 0.0 172.2  
176 84.5 0.0 162.6

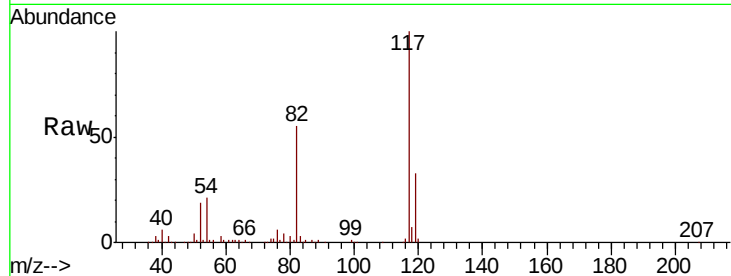




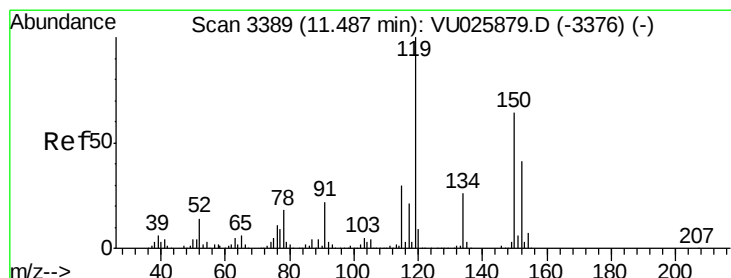
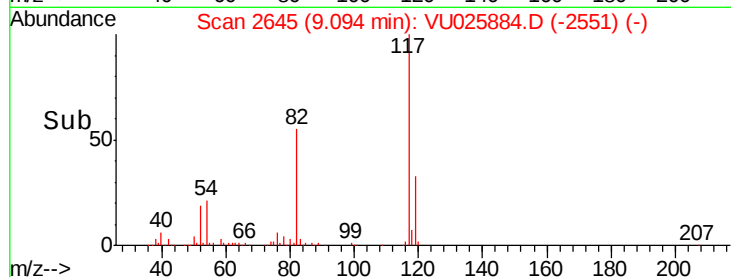
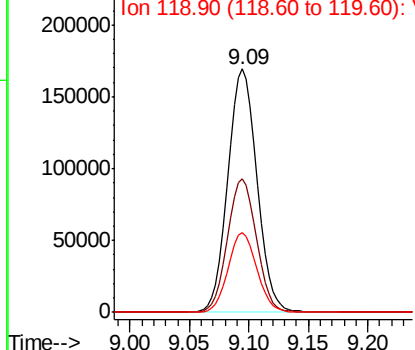
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VU025884.D  
Acq: 06 Aug 2018 14:33

Instrument :  
MSVOA\_U  
ClientSampleId :  
FK-BPM-03-001-CRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.8  | 46.0  | 69.0  |
| 119     | 32.9  | 26.0  | 39.0  |

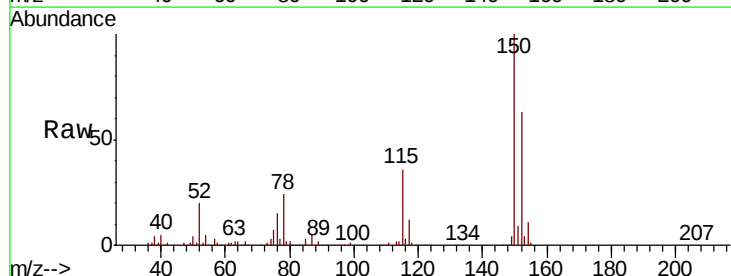


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 11.49 min Scan# 3390  
Delta R.T. 0.00 min  
Lab File: VU025884.D  
Acq: 06 Aug 2018 14:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.9  | 40.1  | 120.3 |
| 150     | 158.4 | 0.0   | 351.4 |



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

