

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092218\  
 Data File : VU026998.D  
 Acq On : 22 Sep 2018 05:45  
 Operator : MD/SY  
 Sample : J4958-09  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BP-FB01-20180913

Quant Time: Sep 24 03:15:52 2018  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 22 01:31:57 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 75776    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 149176   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 154162   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 73755    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 89844    | 58.91 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.82% |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 67517    | 52.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.42% |          |
| 50) Toluene-d8              | 7.57  | 98   | 235225   | 47.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.46%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 82850    | 49.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.00%  |          |

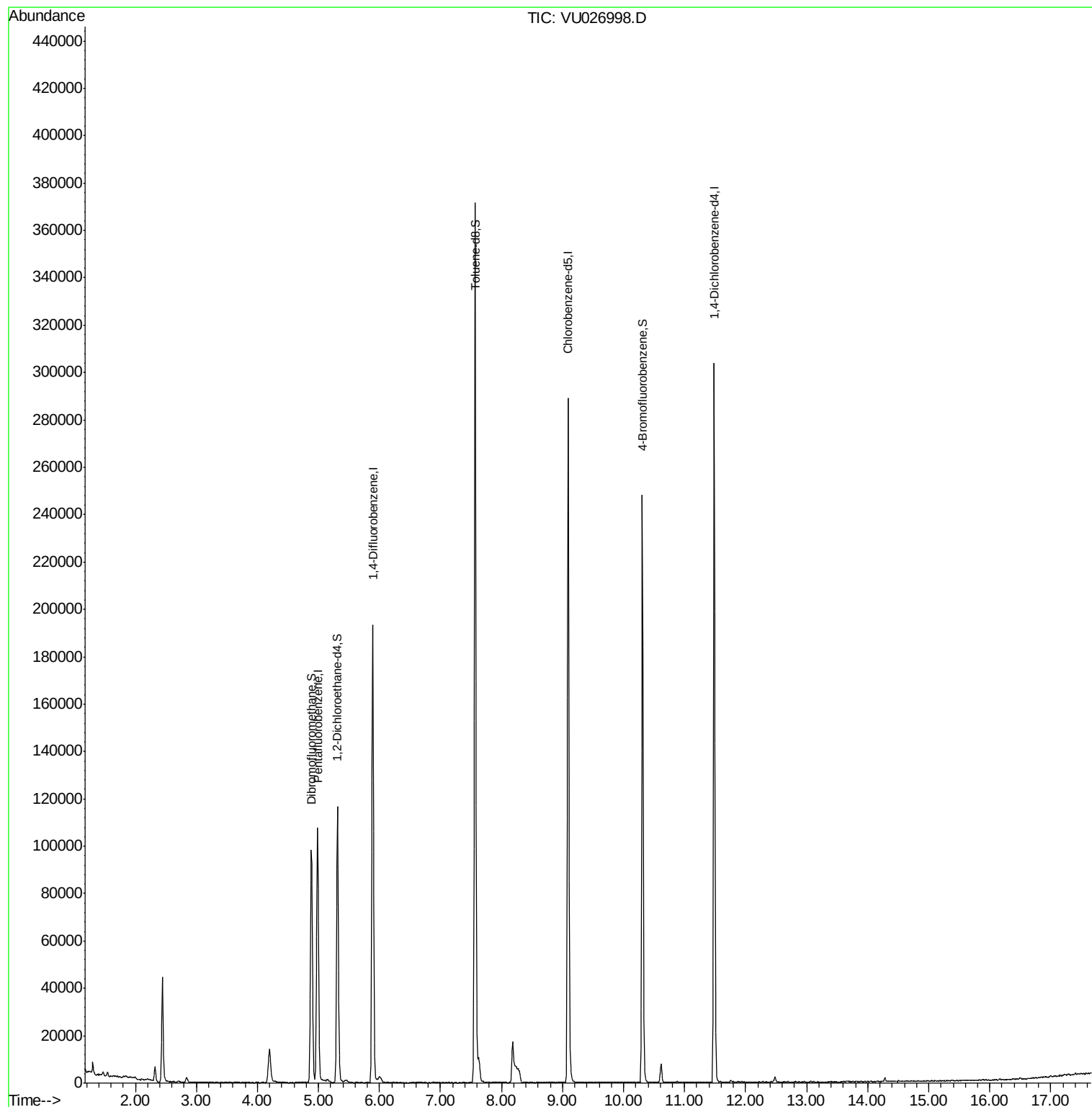
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

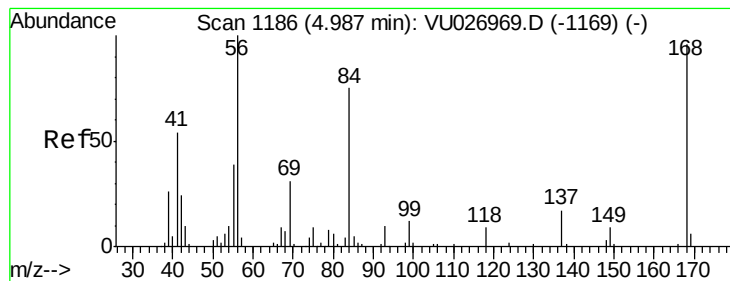
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092218\  
Data File : VU026998.D  
Acq On : 22 Sep 2018 05:45  
Operator : MD/SY  
Sample : J4958-09  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 38 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BP-FB01-20180913

Quant Time: Sep 24 03:15:52 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 22 01:31:57 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU026998.D

Acq: 22 Sep 2018 05:45

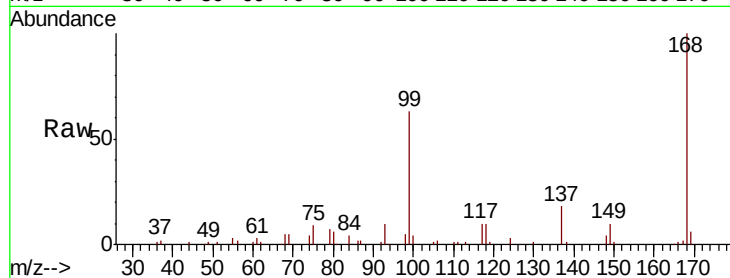
Instrument :  
MSVOA\_U  
ClientSampleId :  
BP-FB01-20180913

Tot Ion:168 Resp: 75776

Ion Ratio Lower Upper

168 100

99 62.6 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026998.D (-1093) (-)

4.99

30000

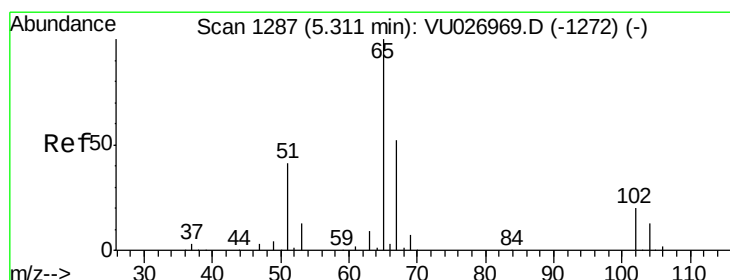
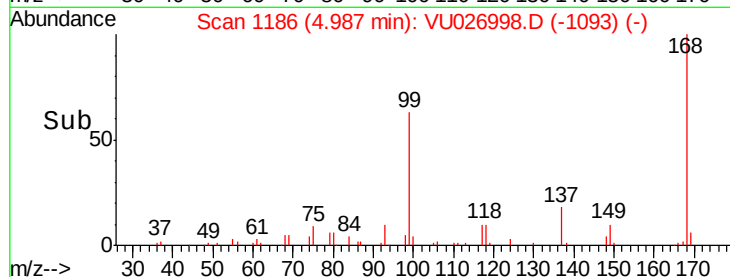
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 58.910 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU026998.D

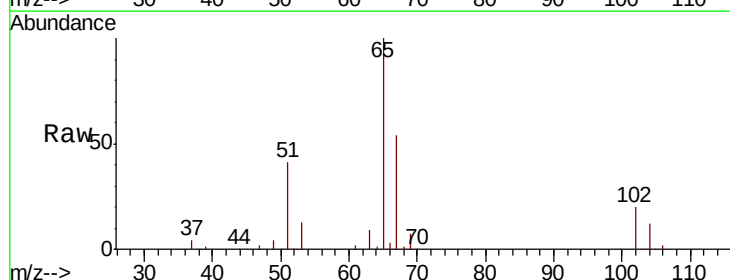
Acq: 22 Sep 2018 05:45

Tgt Ion: 65 Resp: 89844

Ion Ratio Lower Upper

65 100

67 53.9 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU026969.D (-1272) (-)

Ion 66.90 (66.60 to 67.60): VU026998.D (-1194) (-)

5.31

50000

40000

30000

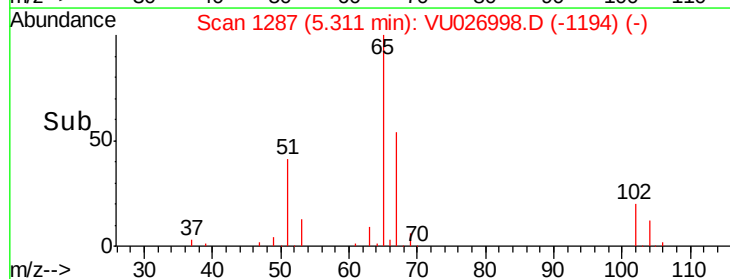
20000

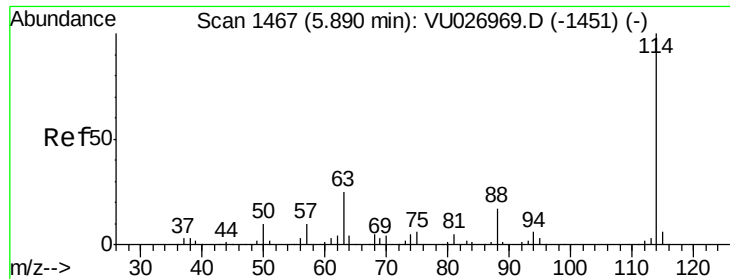
10000

0

5.25 5.30 5.35 5.40

Time-->

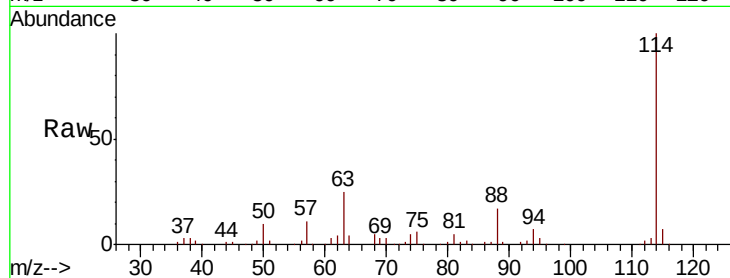




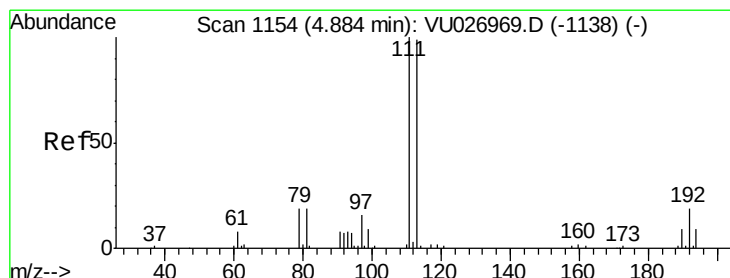
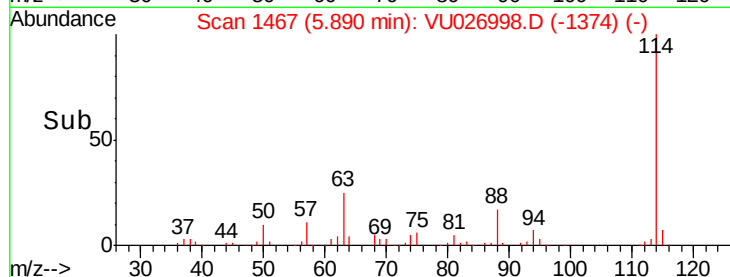
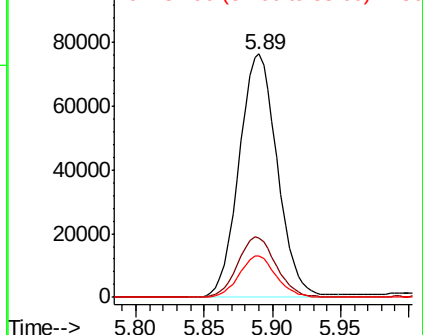
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU026998.D  
 Acq: 22 Sep 2018 05:45

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BP-FB01-20180913

Tot Ion:114 Resp: 149176  
 Ion Ratio Lower Upper  
 114 100  
 63 24.6 0.0 49.2  
 88 17.1 0.0 33.8

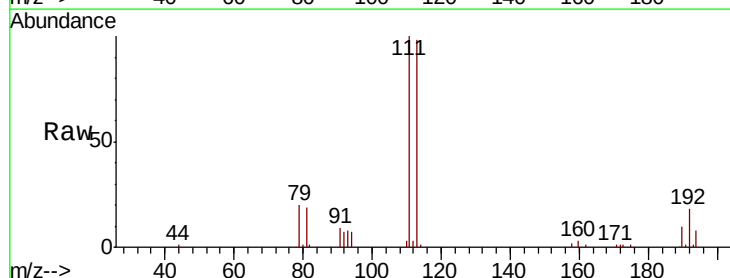


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

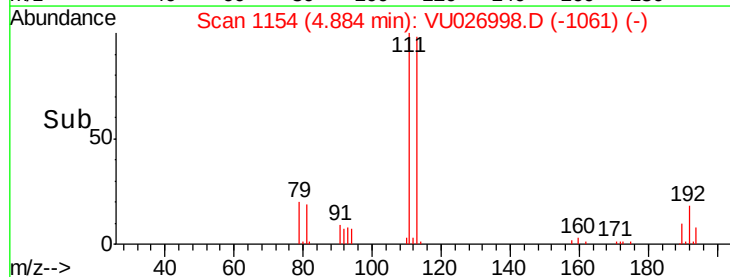
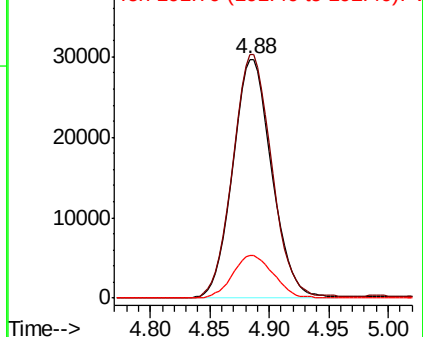


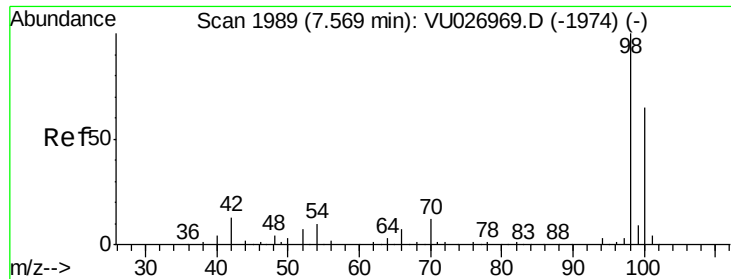
#35  
 Dibromofluoromethane  
 Concen: 52.215 ug/l  
 RT: 4.88 min Scan# 1154  
 Delta R.T. 0.00 min  
 Lab File: VU026998.D  
 Acq: 22 Sep 2018 05:45

Tgt Ion:113 Resp: 67517  
 Ion Ratio Lower Upper  
 113 100  
 111 102.2 82.2 123.4  
 192 18.7 15.2 22.8



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

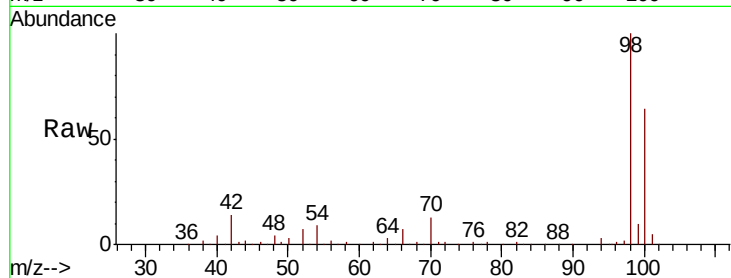




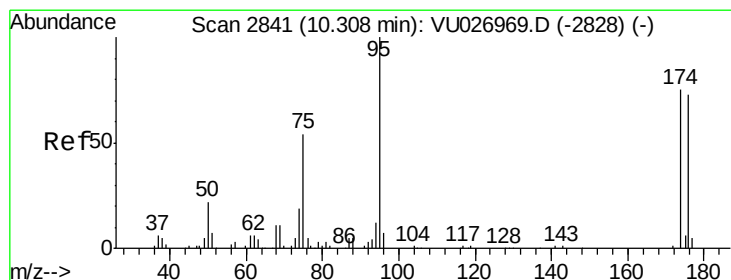
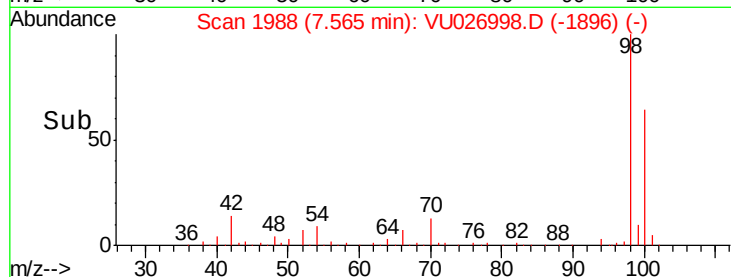
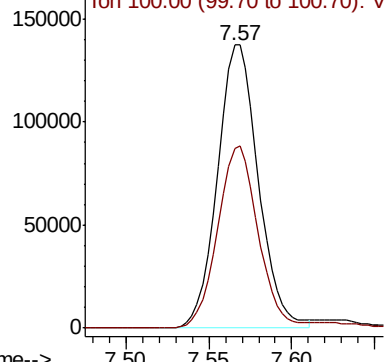
#50  
Toluene-d8  
Concen: 47.733 ug/l  
RT: 7.57 min Scan# 1988  
Delta R.T. -0.00 min  
Lab File: VU026998.D  
Acq: 22 Sep 2018 05:45

Instrument :  
MSVOA\_U  
ClientSampleId :  
BP-FB01-20180913

Tot Ion: 98 Resp: 235225  
Ion Ratio Lower Upper  
98 100  
100 63.8 52.1 78.1

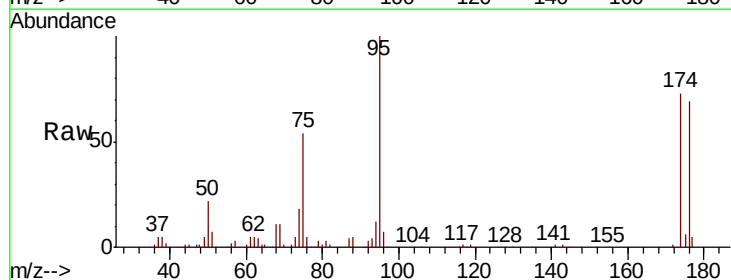


Abundance Ion 98.00 (97.70 to 98.70): VU0  
Ion 100.00 (99.70 to 100.70): VU

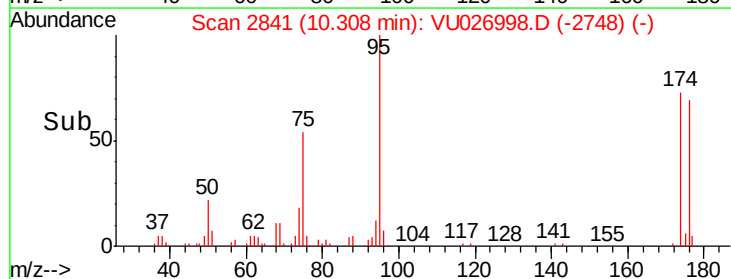
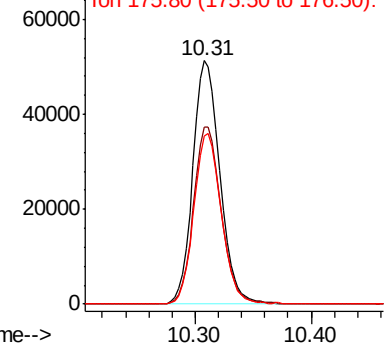


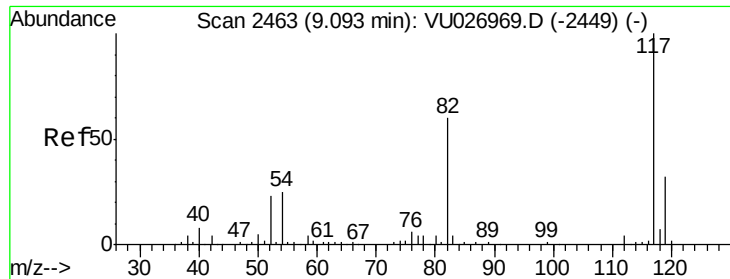
#62  
4-Bromofluorobenzene  
Concen: 48.997 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. 0.00 min  
Lab File: VU026998.D  
Acq: 22 Sep 2018 05:45

Tgt Ion: 95 Resp: 82850  
Ion Ratio Lower Upper  
95 100  
174 74.4 0.0 150.2  
176 70.7 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU0  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

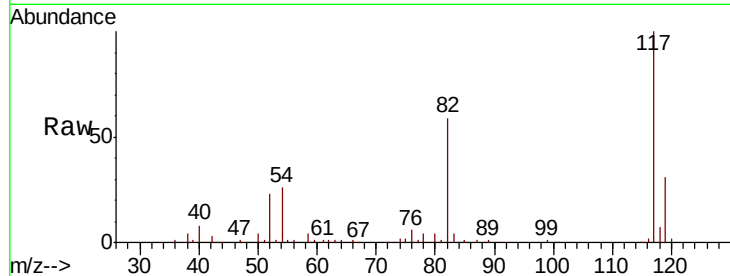




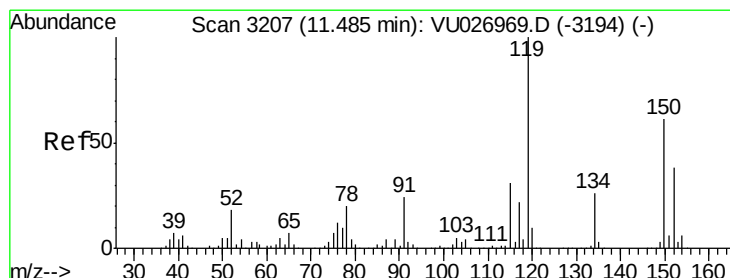
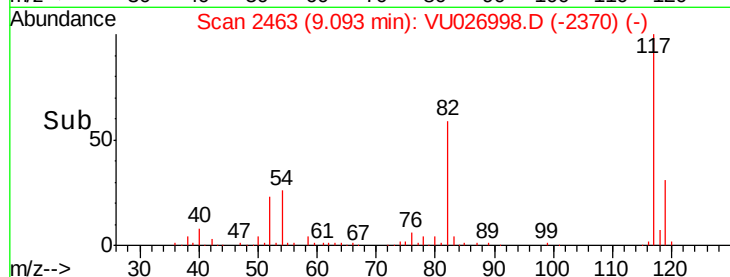
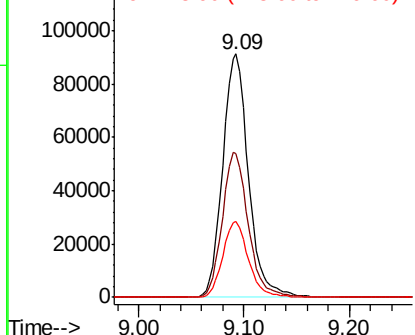
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU026998.D  
Acq: 22 Sep 2018 05:45

Instrument :  
MSVOA\_U  
ClientSampleId :  
BP-FB01-20180913

Tot Ion:117 Resp: 154162  
Ion Ratio Lower Upper  
117 100  
82 58.8 48.0 72.0  
119 31.1 25.8 38.8

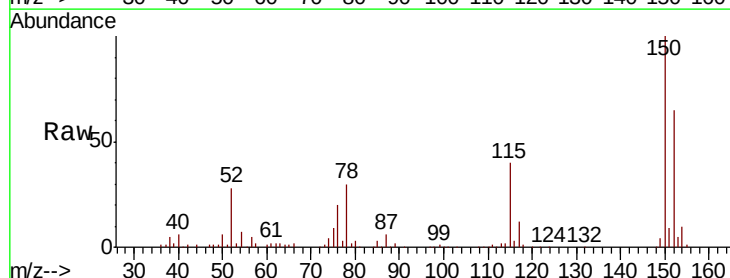


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. 0.00 min  
Lab File: VU026998.D  
Acq: 22 Sep 2018 05:45

Tgt Ion:152 Resp: 73755  
Ion Ratio Lower Upper  
152 100  
115 61.0 44.9 134.5  
150 154.4 0.0 355.8



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

