

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092318\  
 Data File : VU027075.D  
 Acq On : 23 Sep 2018 16:28  
 Operator : MD/SY  
 Sample : J4980-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 117 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BPSI-HN-MW29IR-20180916

Quant Time: Sep 24 08:41:25 2018  
 Quant Method : Z:\VOASRV\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  | 93743    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 160756   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 152689   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 69916    | 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   | 97157    | 51.49 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 102.98% |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 67483    | 48.43 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.86%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 256565   | 48.31 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.62%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 81682    | 44.83 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 89.66%  |          |

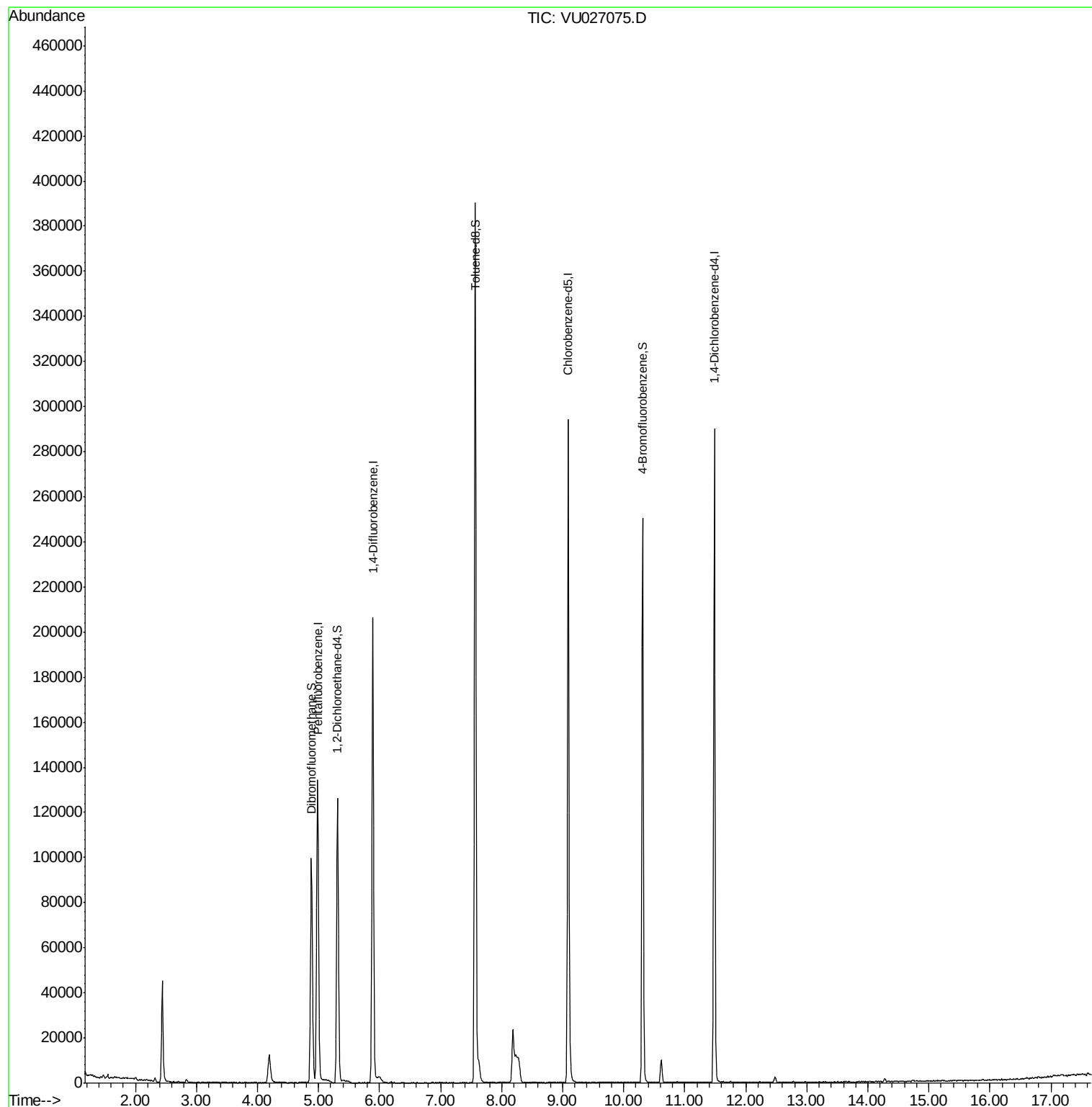
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

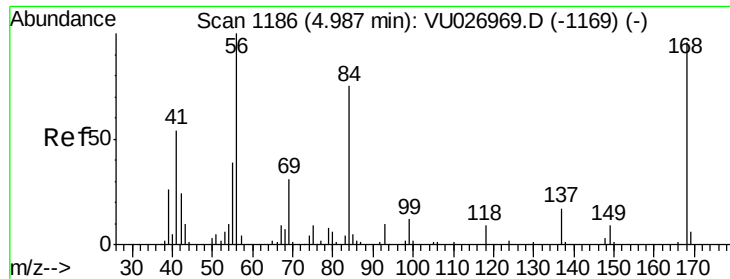
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU027075.D

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Instrument :

MSVOA\_U

ClientSampleId :

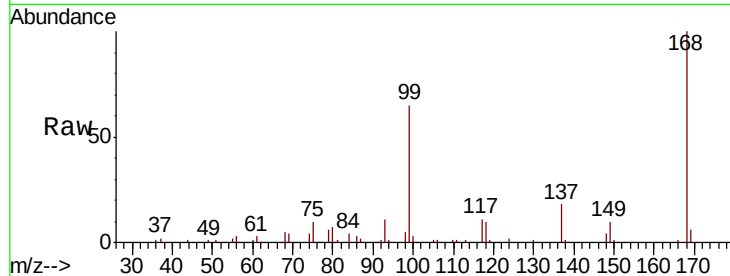
BPSI-HN-MW29IR-20180916

Tot Ion:168 Resp: 93743

Ion Ratio Lower Upper

168 100

99 65.4 48.1 72.1



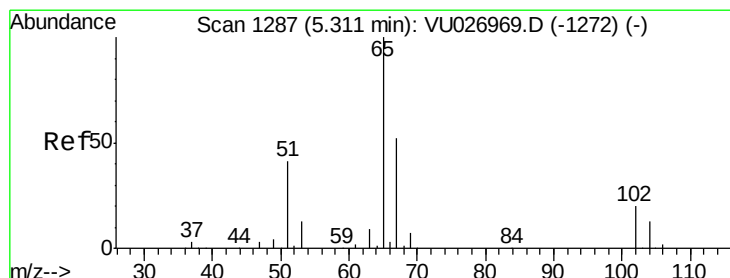
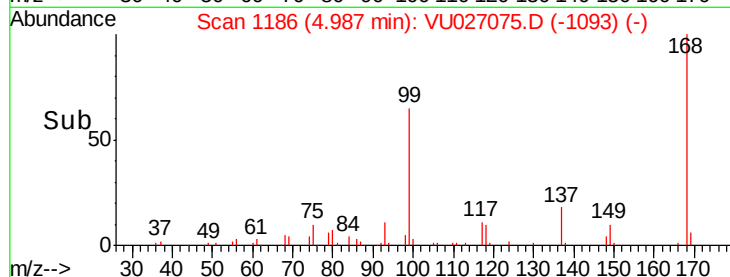
Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

4.90 4.95 5.00 5.05 5.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.495 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027075.D

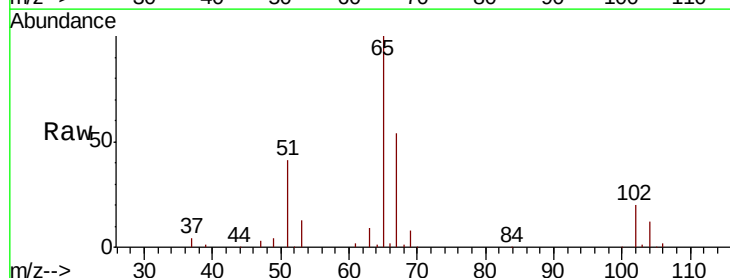
Acq: 23 Sep 2018 16:28

Tgt Ion: 65 Resp: 97157

Ion Ratio Lower Upper

65 100

67 53.6 0.0 105.6



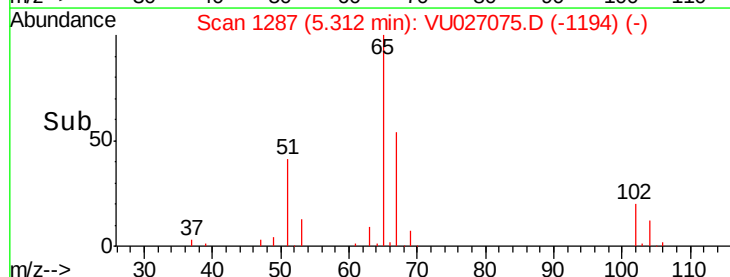
Abundance Ion 64.90 (64.60 to 65.60): VU026969.D (-1272) (-)

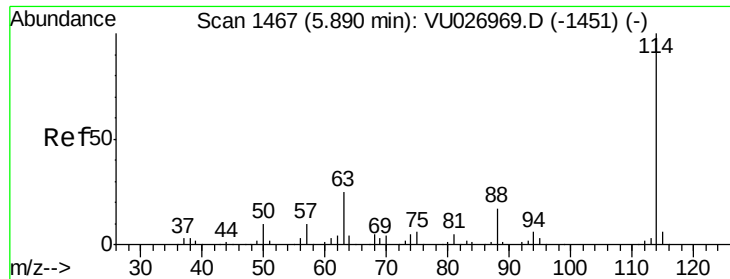
Ion 66.90 (66.60 to 67.60): VU026969.D (-1272) (-)

5.31

5.25 5.30 5.35 5.40

Time-->

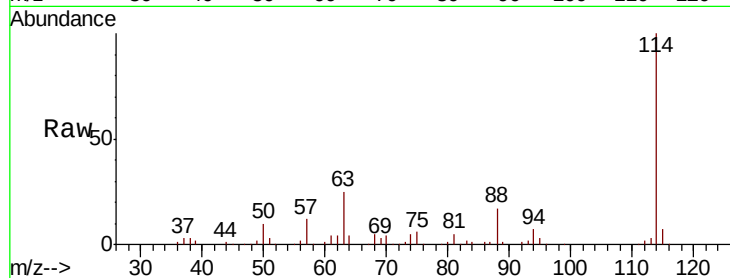




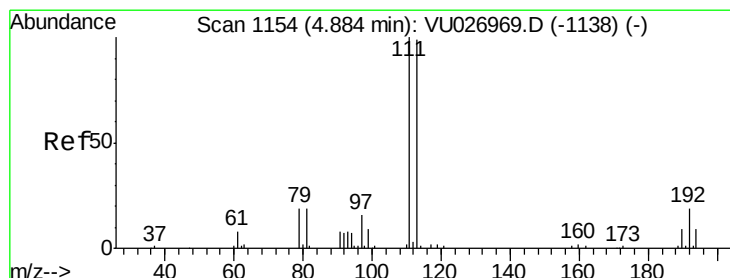
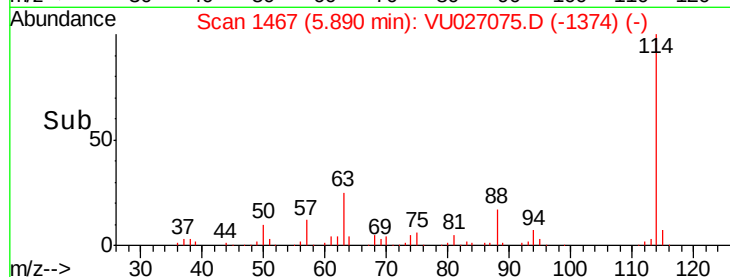
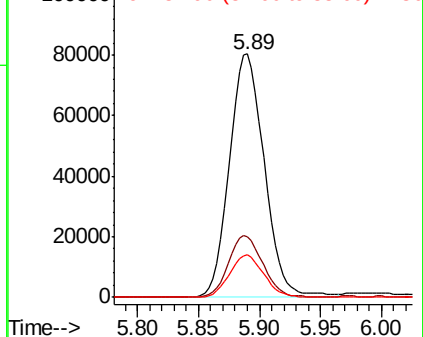
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027075.D  
 Acq: 23 Sep 2018 16:28

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BPSI-HN-MW29IR-20180916

Tot Ion:114 Resp: 160756  
 Ion Ratio Lower Upper  
 114 100  
 63 24.9 0.0 49.2  
 88 17.5 0.0 33.8

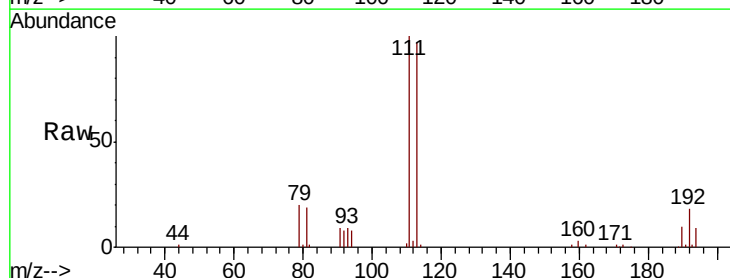


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

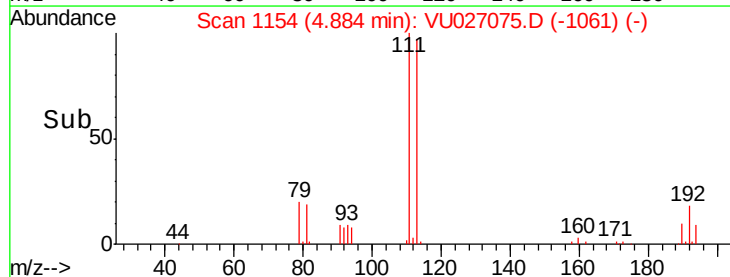
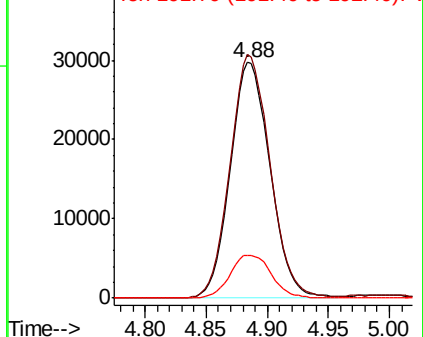


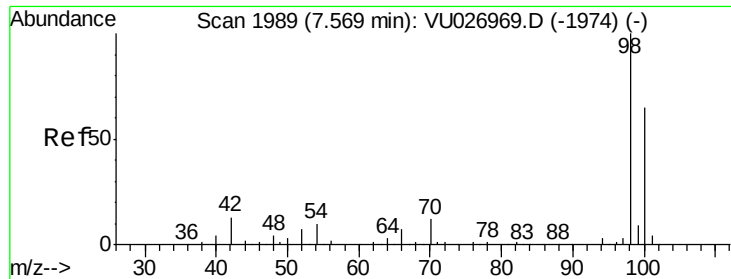
#35  
 Dibromofluoromethane  
 Concen: 48.429 ug/l  
 RT: 4.88 min Scan# 1154  
 Delta R.T. 0.00 min  
 Lab File: VU027075.D  
 Acq: 23 Sep 2018 16:28

Tgt Ion:113 Resp: 67483  
 Ion Ratio Lower Upper  
 113 100  
 111 103.6 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

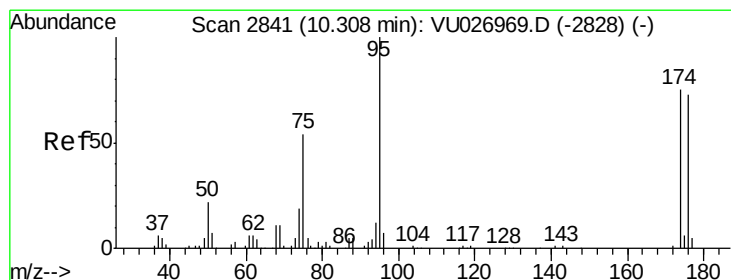
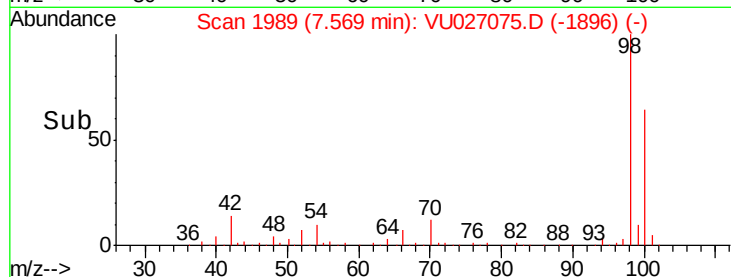
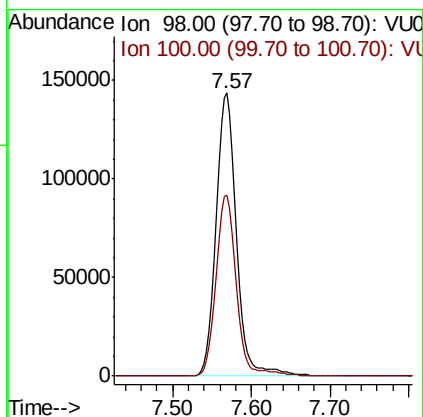
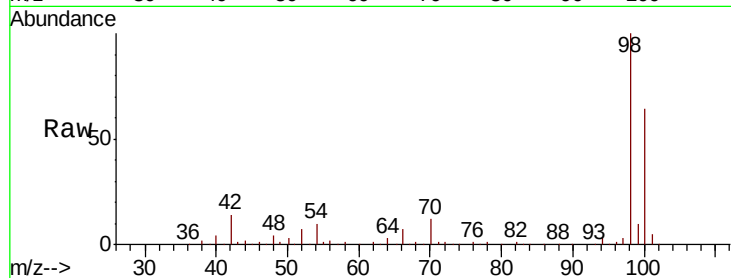




#50  
Toluene-d8  
Concen: 48.313 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU027075.D  
Acq: 23 Sep 2018 16:28

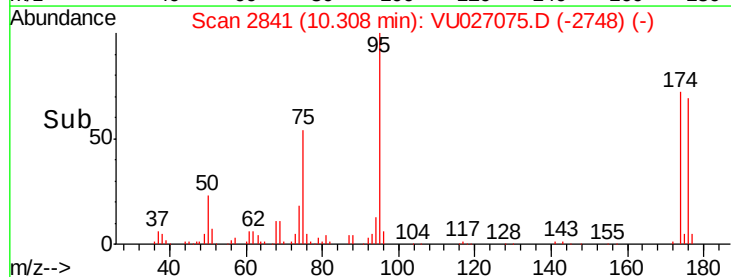
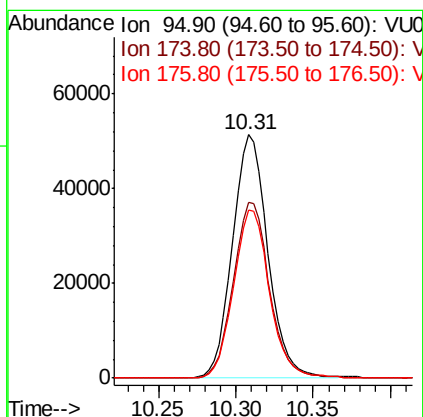
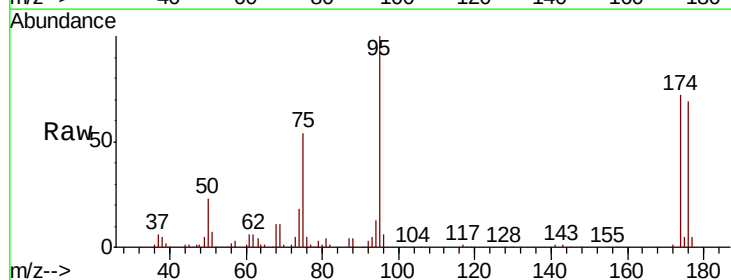
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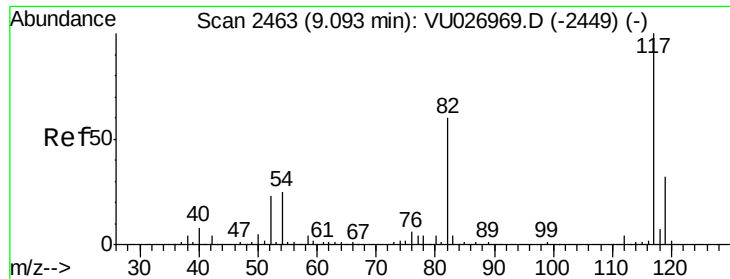
Tot Ion: 98 Resp: 256565  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.1 78.1



#62  
4-Bromofluorobenzene  
Concen: 44.827 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. 0.00 min  
Lab File: VU027075.D  
Acq: 23 Sep 2018 16:28

Tgt Ion: 95 Resp: 81682  
Ion Ratio Lower Upper  
95 100  
174 73.8 0.0 150.2  
176 70.1 0.0 145.2

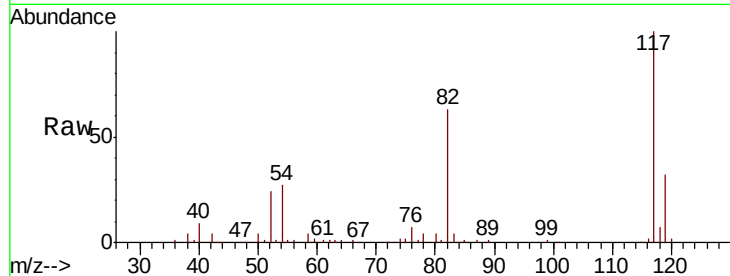




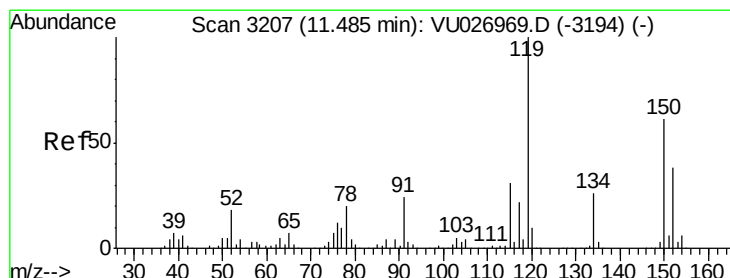
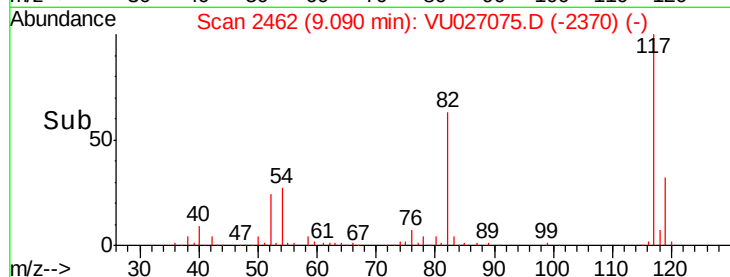
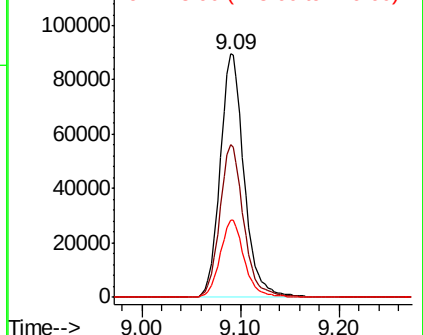
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2462  
Delta R.T. -0.00 min  
Lab File: VU027075.D  
Acq: 23 Sep 2018 16:28

Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-HN-MW29IR-20180916

Tot Ion:117 Resp: 152689  
Ion Ratio Lower Upper  
117 100  
82 62.9 48.0 72.0  
119 31.5 25.8 38.8

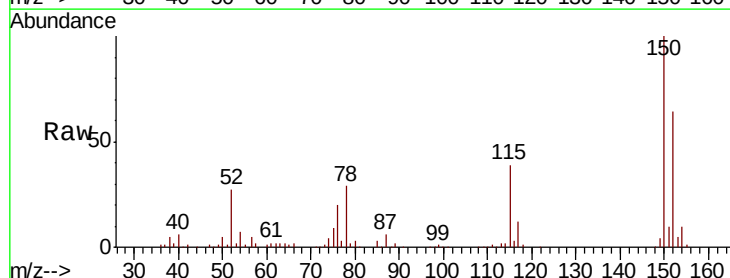


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. 0.00 min  
Lab File: VU027075.D  
Acq: 23 Sep 2018 16:28

Tgt Ion:152 Resp: 69916  
Ion Ratio Lower Upper  
152 100  
115 61.1 44.9 134.5  
150 157.2 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

