

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100118\  
 Data File : VU027327.D  
 Acq On : 01 Oct 2018 18:45  
 Operator : MD/SY  
 Sample : J5172-27  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-4

Quant Time: Oct 02 08:00:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U100118W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 02:04:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.98  | 168  | 107117   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 180792   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 171908   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 81412    | 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   | 104684   | 58.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 117.06% |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 75358    | 60.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 121.64% |          |
| 50) Toluene-d8              | 7.57  | 98   | 285772   | 61.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 123.26% |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 96077    | 55.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 111.50% |          |

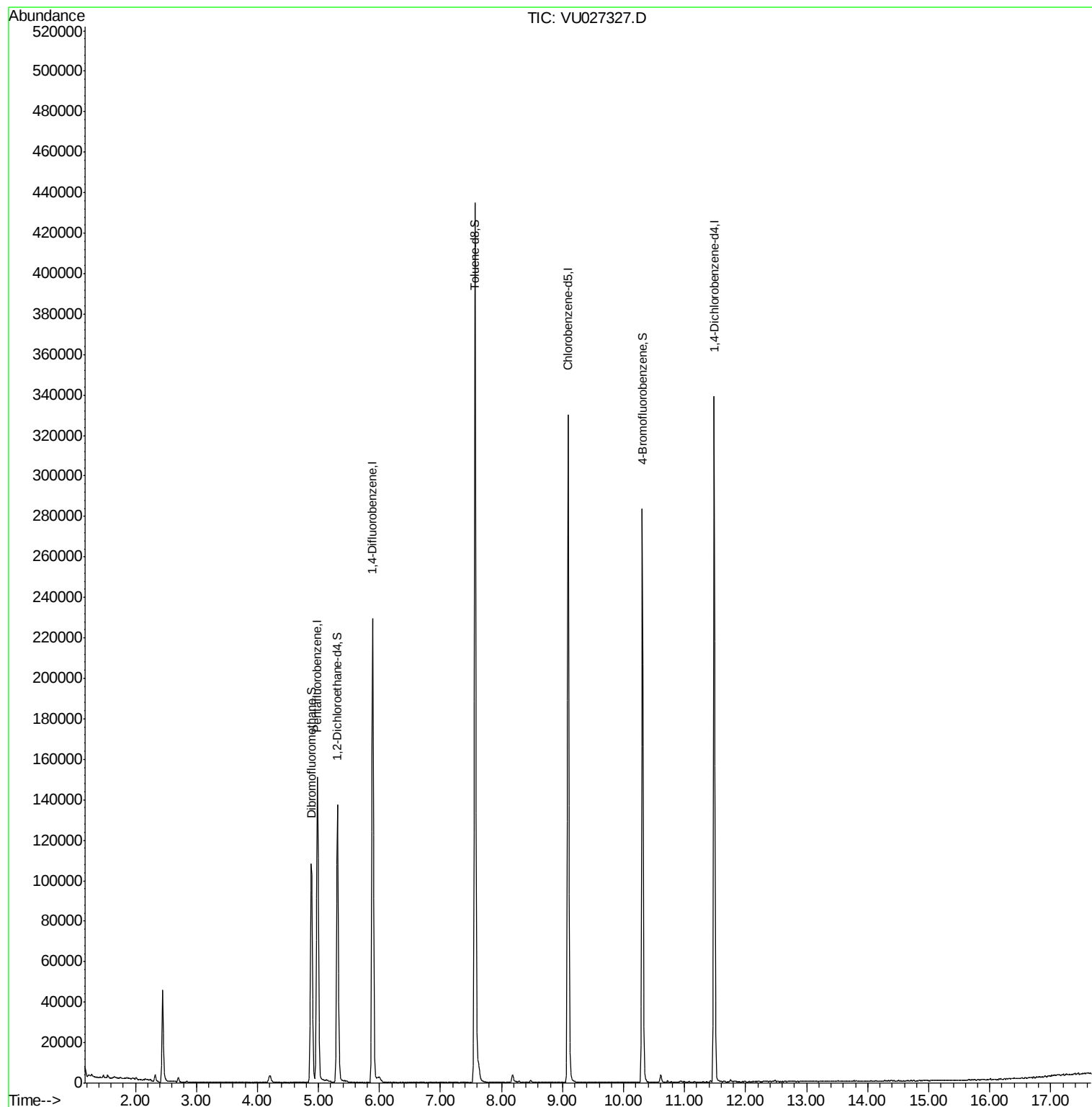
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

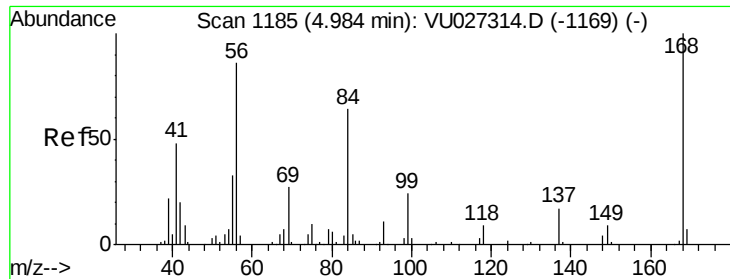
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Oct 02 02:04:34 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU027327.D

Acq: 01 Oct 2018 18:45

Instrument :

MSVOA\_U

ClientSampleId :

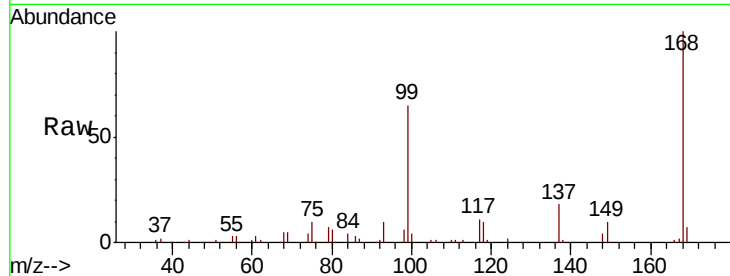
STORAGE-BLANK-WATER-REF-4

Tot Ion:168 Resp: 107117

Ion Ratio Lower Upper

168 100

99 64.8 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): VU027314.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027327.D (-1092) (-)

4.98

50000

40000

30000

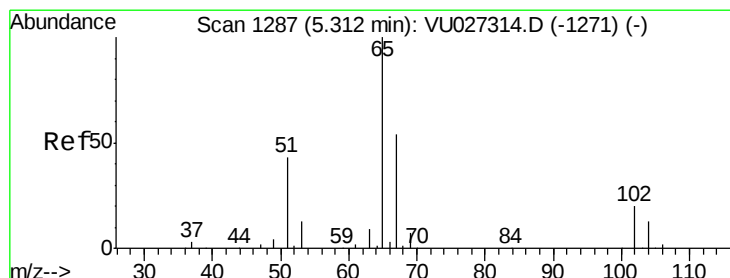
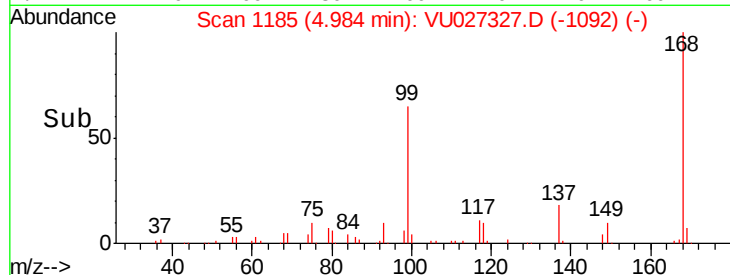
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 58.526 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027327.D

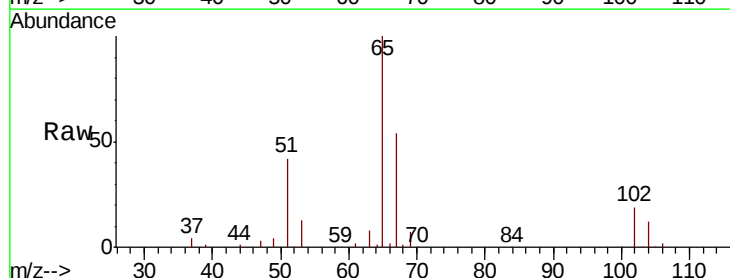
Acq: 01 Oct 2018 18:45

Tgt Ion: 65 Resp: 104684

Ion Ratio Lower Upper

65 100

67 54.4 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VU027314.D (-1271) (-)

Ion 66.90 (66.60 to 67.60): VU027327.D (-1194) (-)

5.31

50000

40000

30000

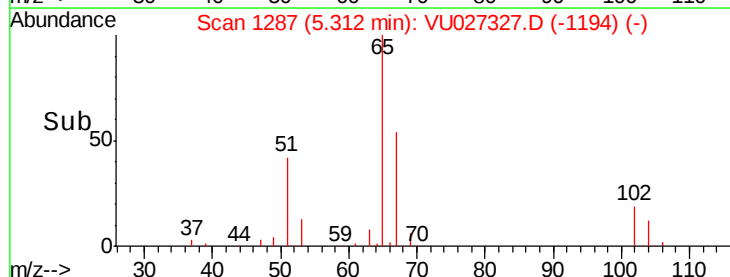
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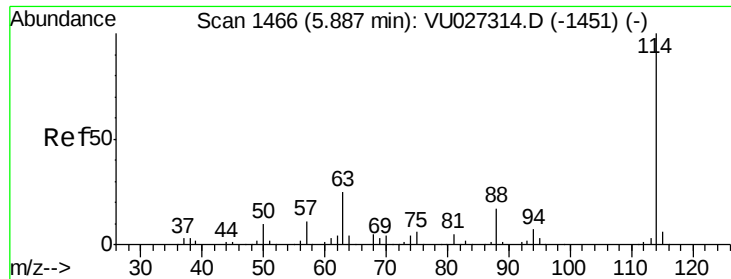
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0

5.20 5.25 5.30 5.35 5.40

Time-->

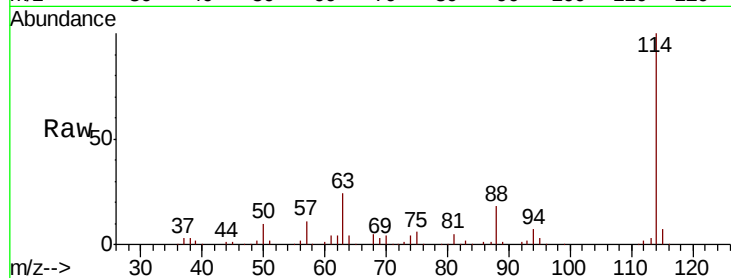




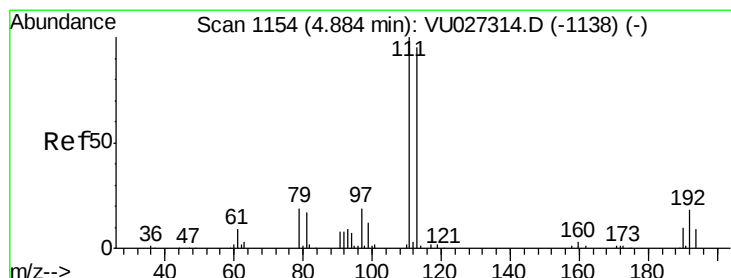
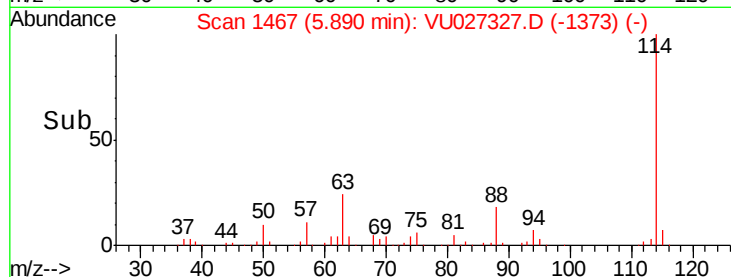
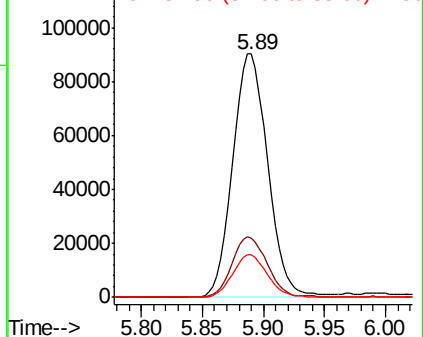
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027327.D  
 Acq: 01 Oct 2018 18:45

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-4

Tot Ion:114 Resp: 180792  
 Ion Ratio Lower Upper  
 114 100  
 63 24.4 0.0 50.2  
 88 17.7 0.0 33.8

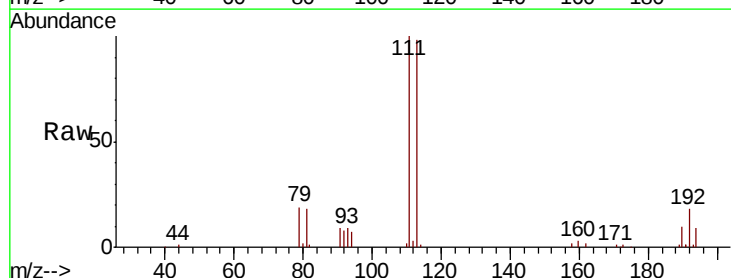


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

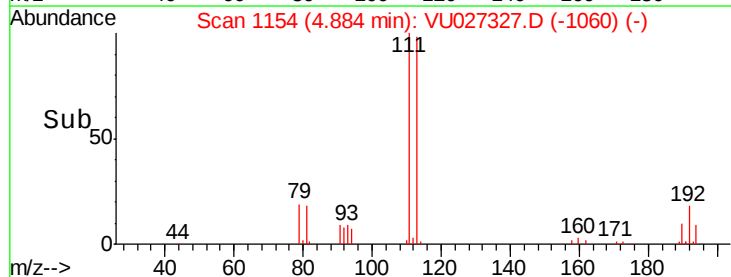
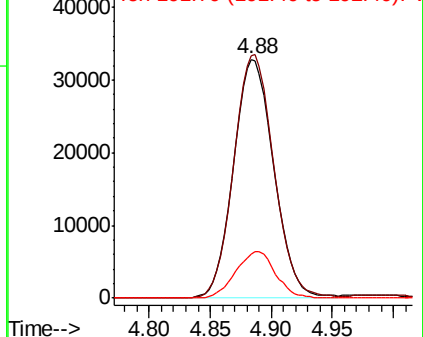


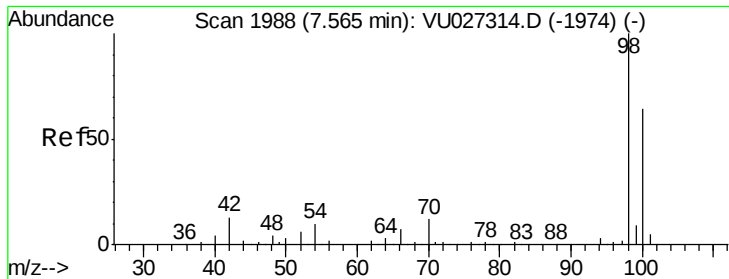
#35  
 Dibromofluoromethane  
 Concen: 60.821 ug/l  
 RT: 4.88 min Scan# 1154  
 Delta R.T. 0.00 min  
 Lab File: VU027327.D  
 Acq: 01 Oct 2018 18:45

Tgt Ion:113 Resp: 75358  
 Ion Ratio Lower Upper  
 113 100  
 111 101.4 83.1 124.7  
 192 19.0 15.4 23.0



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

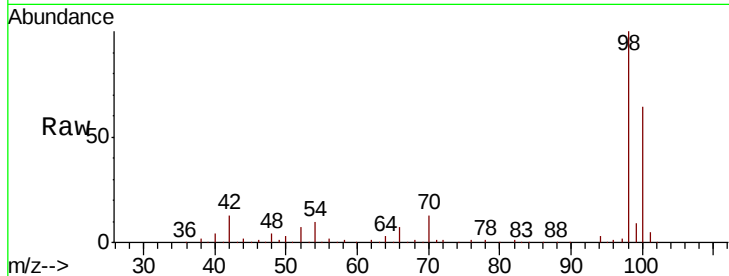




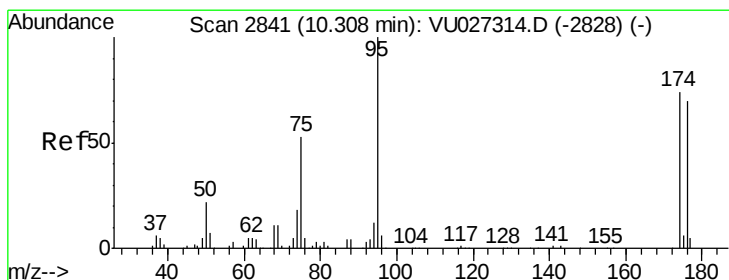
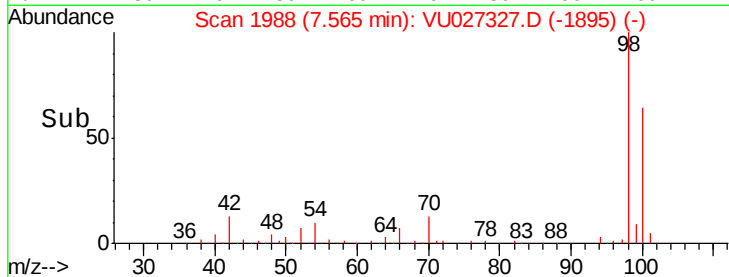
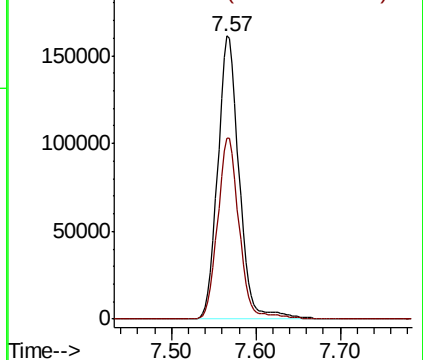
#50  
Toluene-d8  
Concen: 61.625 ug/l  
RT: 7.57 min Scan# 1988  
Delta R.T. 0.00 min  
Lab File: VU027327.D  
Acq: 01 Oct 2018 18:45

Instrument :  
MSVOA\_U  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-4

Tot Ion: 98 Resp: 285772  
Ion Ratio Lower Upper  
98 100  
100 64.5 52.1 78.1

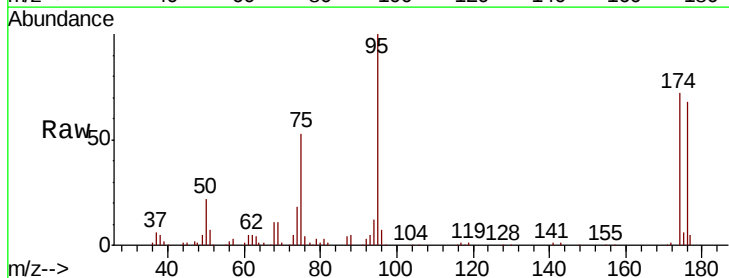


Abundance Ion 98.00 (97.70 to 98.70): VU027314.D (-1974) (-)  
Ion 100.00 (99.70 to 100.70): VU027327.D (-1895) (-)

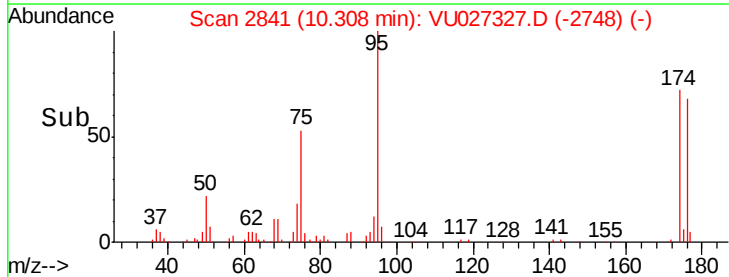
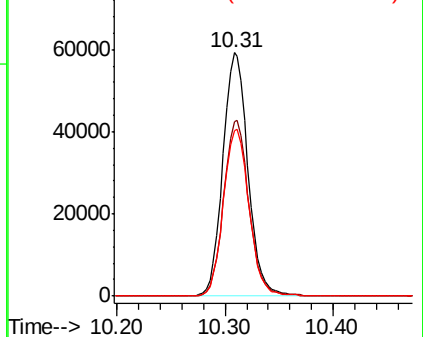


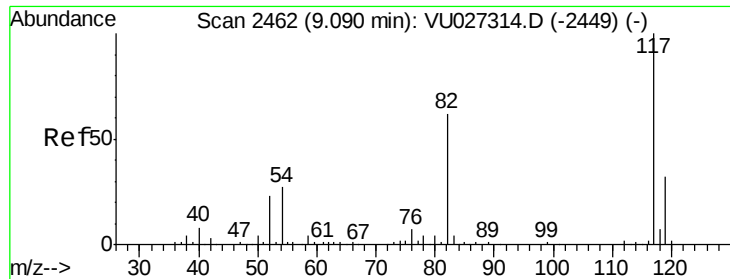
#62  
4-Bromofluorobenzene  
Concen: 55.749 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. 0.00 min  
Lab File: VU027327.D  
Acq: 01 Oct 2018 18:45

Tgt Ion: 95 Resp: 96077  
Ion Ratio Lower Upper  
95 100  
174 72.8 0.0 147.8  
176 70.1 0.0 140.8



Abundance Ion 94.90 (94.60 to 95.60): VU027314.D (-2828) (-)  
Ion 173.80 (173.50 to 174.50): VU027327.D (-2748) (-)  
Ion 175.80 (175.50 to 176.50): VU027327.D (-2748) (-)

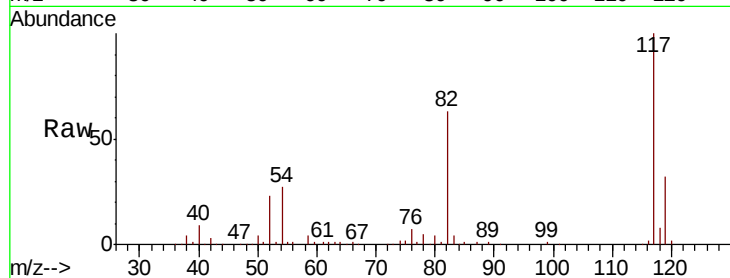




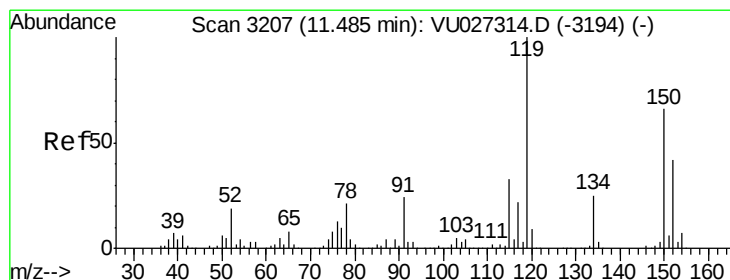
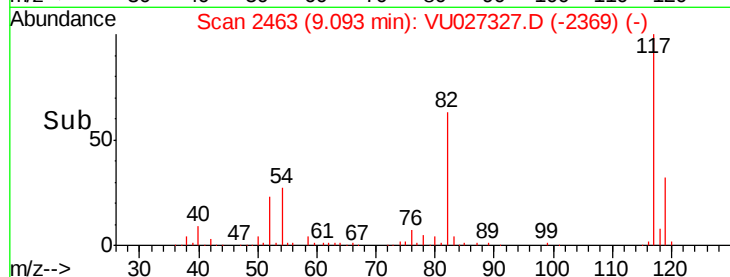
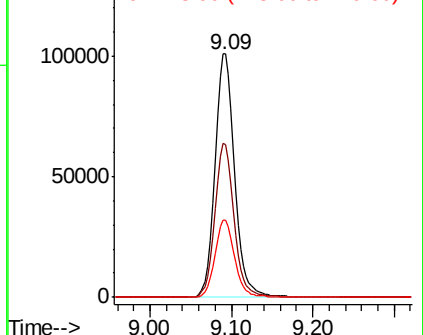
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU027327.D  
Acq: 01 Oct 2018 18:45

Instrument :  
MSVOA\_U  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-4

Tot Ion:117 Resp: 171908  
Ion Ratio Lower Upper  
117 100  
82 62.7 49.2 73.8  
119 31.8 25.7 38.5

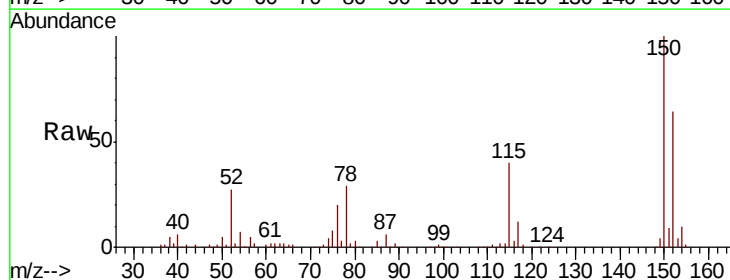


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. -0.00 min  
Lab File: VU027327.D  
Acq: 01 Oct 2018 18:45

Tgt Ion:152 Resp: 81412  
Ion Ratio Lower Upper  
152 100  
115 62.0 43.4 130.2  
150 156.9 0.0 349.2



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

