

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100418\  
 Data File : VU027417.D  
 Acq On : 04 Oct 2018 18:50  
 Operator : MD/SY  
 Sample : J5232-06  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 TRIP-BLANK

Quant Time: Oct 08 10:54:42 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      | 4.99  | 168  | 123727   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 211198   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 199792   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 110035   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 113539   | 54.96 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 109.92% |      |
| 35) Dibromofluoromethane    | 4.89   | 113 | 81663    | 56.42 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 112.84% |      |
| 50) Toluene-d8              | 7.57   | 98  | 320428   | 59.15 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 118.30% |      |
| 62) 4-Bromofluorobenzene    | 10.31  | 95  | 115893   | 57.57 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 115.14% |      |

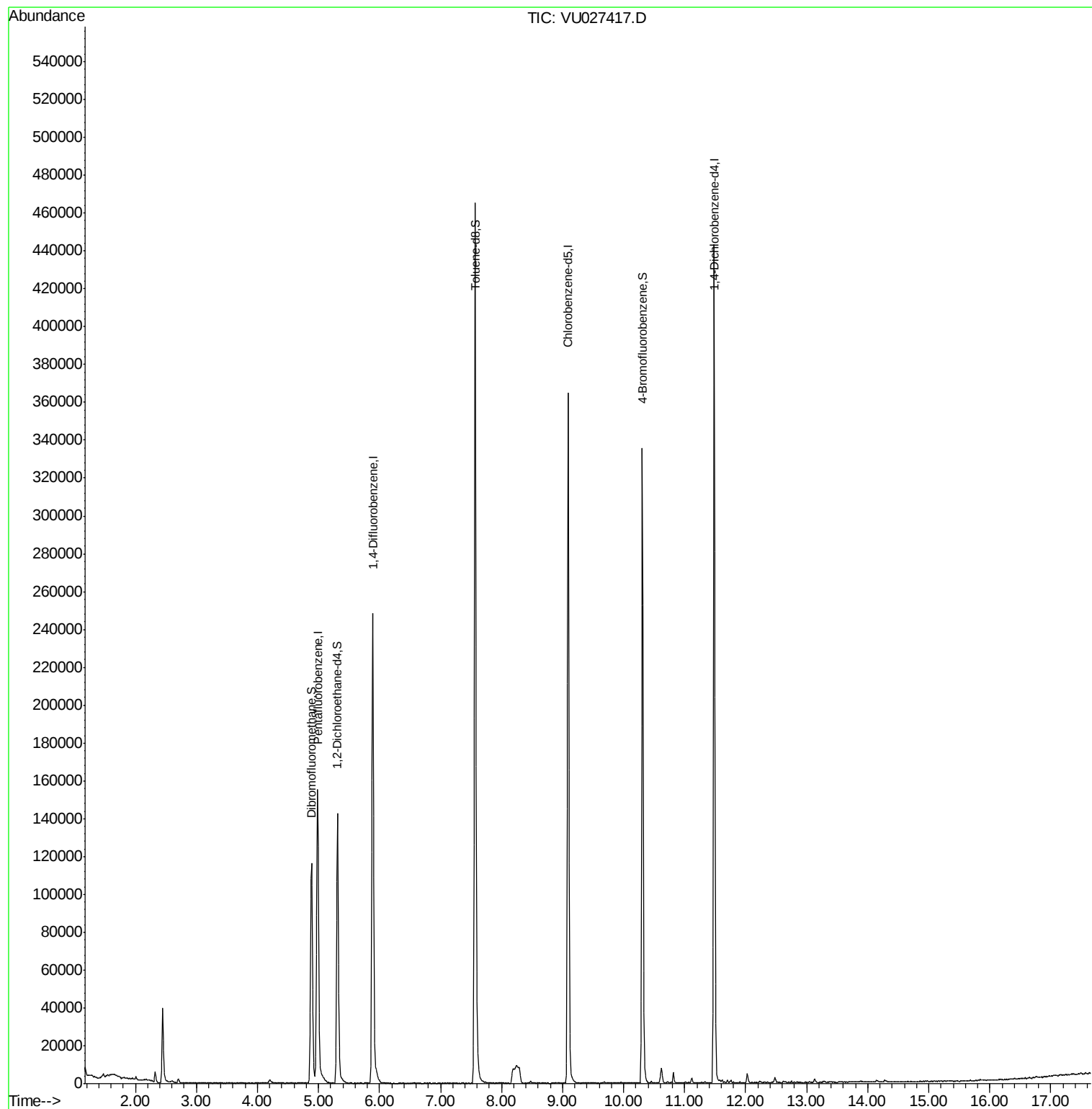
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

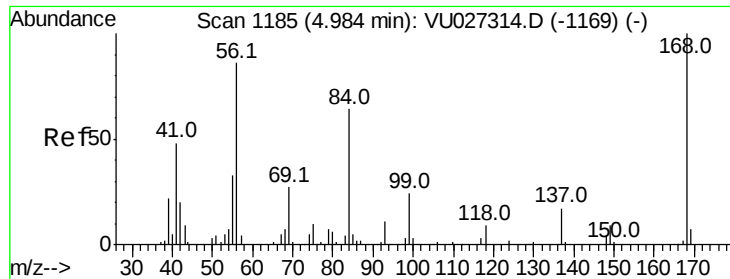
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : J5232-06  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
TRIP-BLANK

Quant Time: Oct 08 10:54:42 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U100118W.M  
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: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027417.D

Acq: 04 Oct 2018 18:50

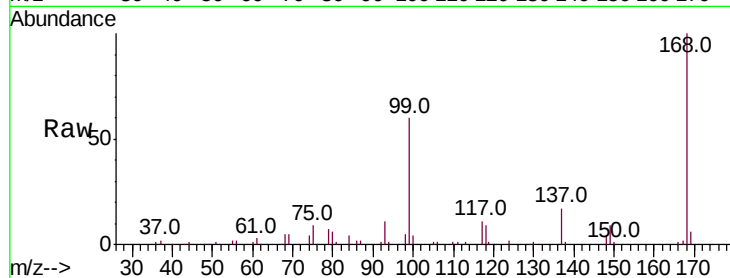
Instrument :  
MSVOA\_U  
ClientSampleId :  
TRIP-BLANK

Tot Ion:168 Resp: 123727

Ion Ratio Lower Upper

168 100

99 60.3 50.8 76.2



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

Ion 98.90 (98.60 to 99.60): VU027314.D (-1169) (-)

4.99

50000

40000

30000

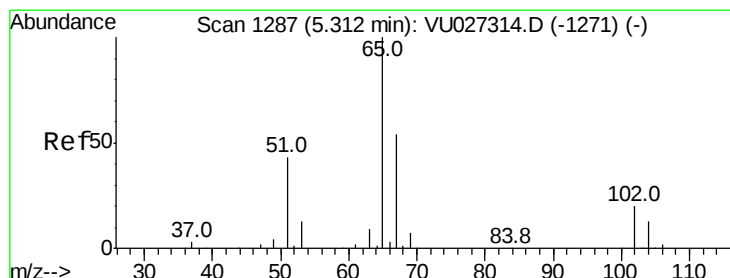
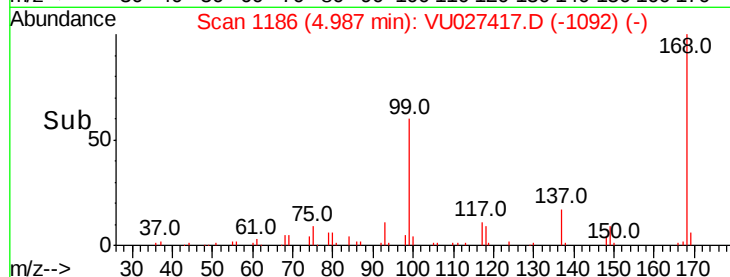
20000

10000

0

4.90 5.00 5.10 5.20

Time-->



#33

1,2-Dichloroethane-d4

Concen: 54.955 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027417.D

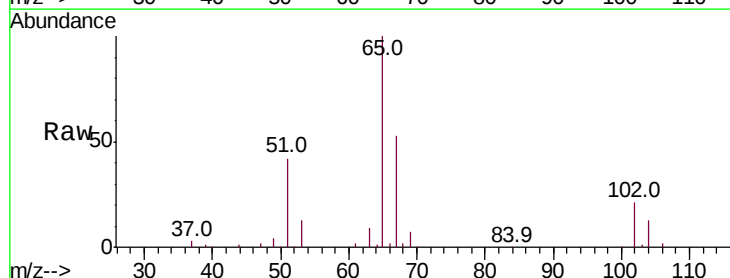
Acq: 04 Oct 2018 18:50

Tgt Ion: 65 Resp: 113539

Ion Ratio Lower Upper

65 100

67 52.5 0.0 107.8



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

Ion 66.90 (66.60 to 67.60): VU027314.D (-1271) (-)

5.31

60000

50000

40000

30000

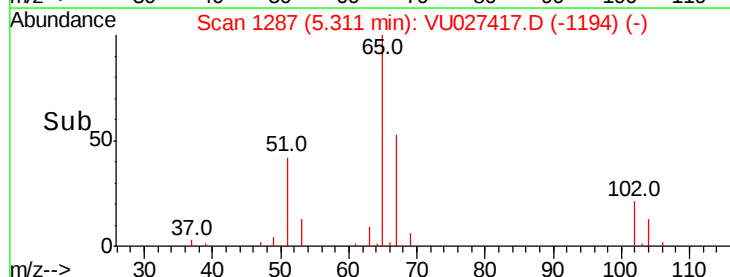
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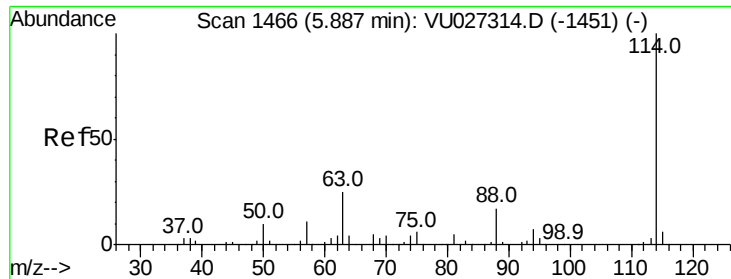
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0

5.20 5.30 5.40 5.50

Time-->

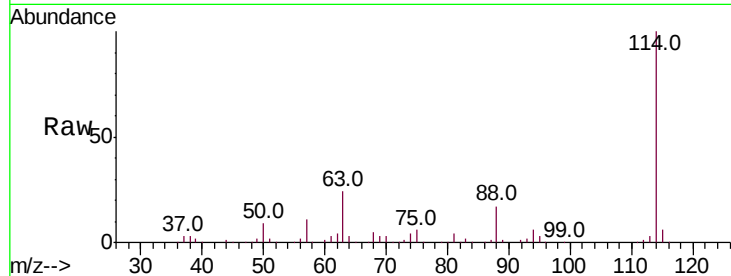




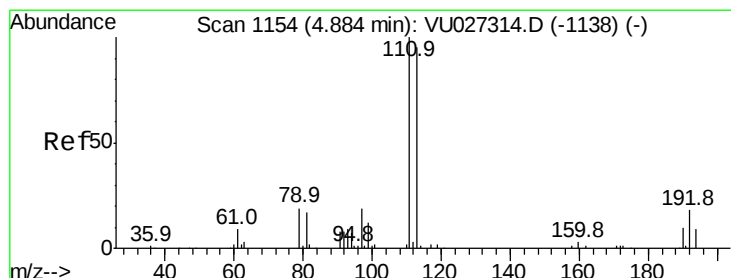
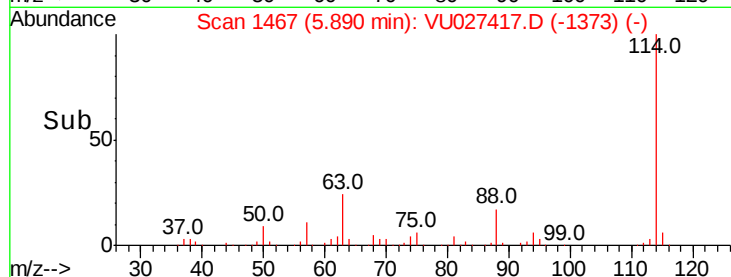
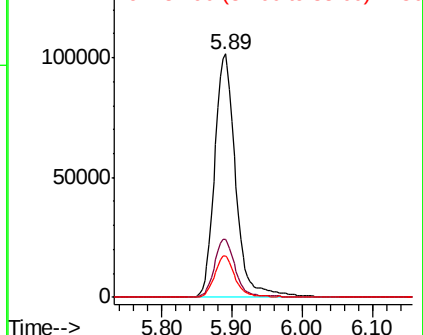
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027417.D  
 Acq: 04 Oct 2018 18:50

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 TRIP-BLANK

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.9  | 0.0   | 50.2  |
| 88      | 17.2  | 0.0   | 33.8  |

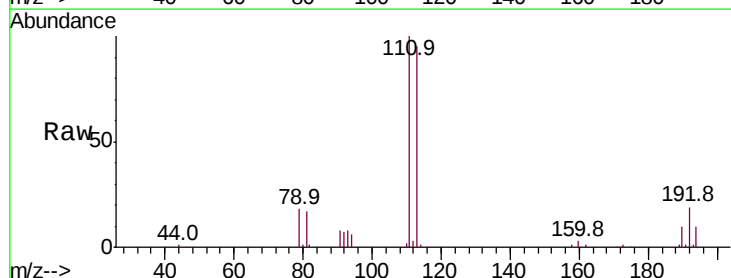


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

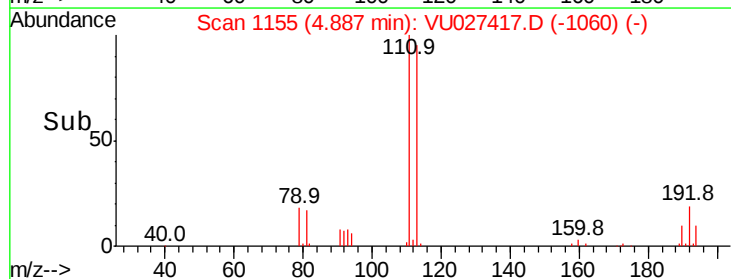
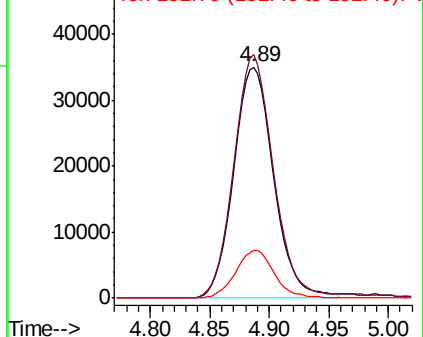


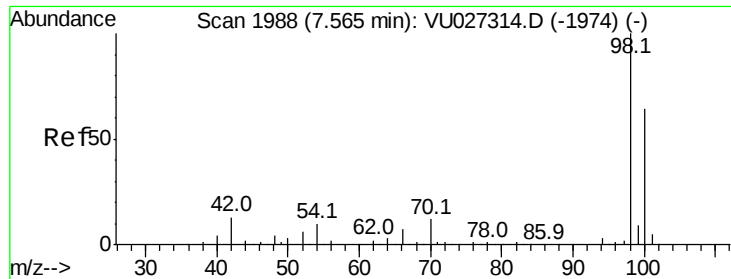
#35  
 Dibromofluoromethane  
 Concen: 56.420 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU027417.D  
 Acq: 04 Oct 2018 18:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.7 | 83.1  | 124.7 |
| 192     | 19.8  | 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

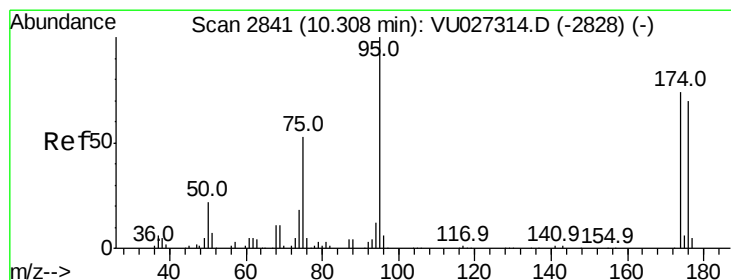
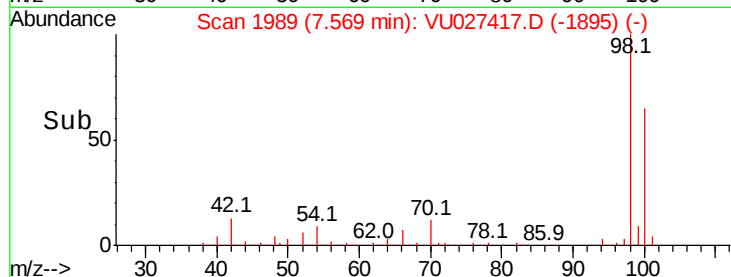
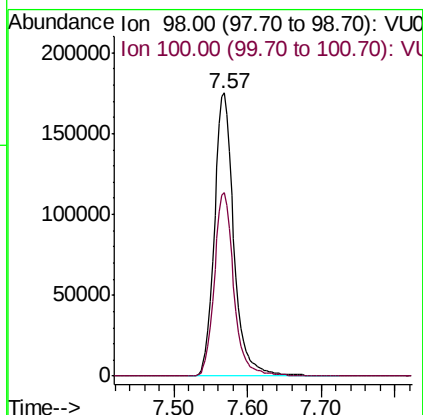
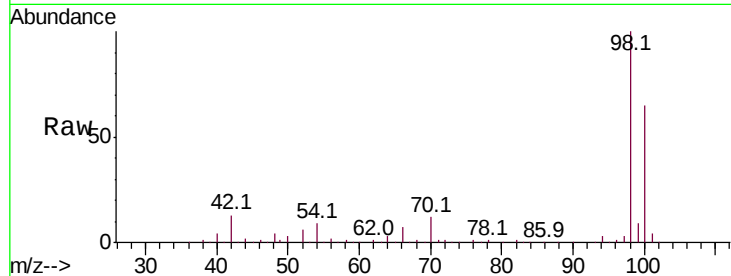




#50  
Toluene-d8  
Concen: 59.150 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU027417.D  
Acq: 04 Oct 2018 18:50

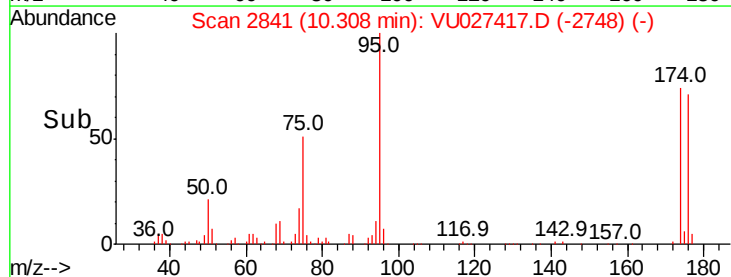
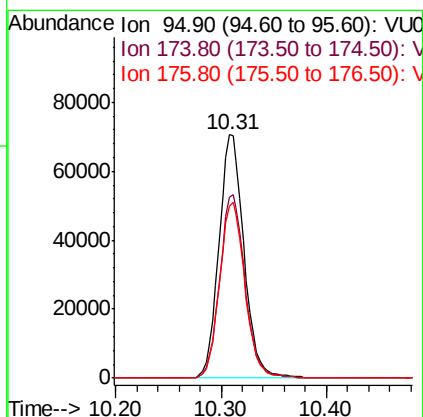
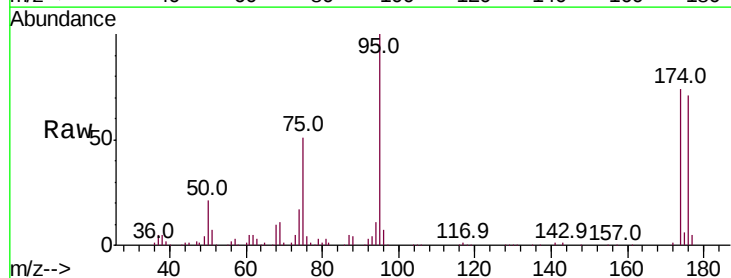
Instrument :  
MSVOA\_U  
ClientSampleId :  
TRIP-BLANK

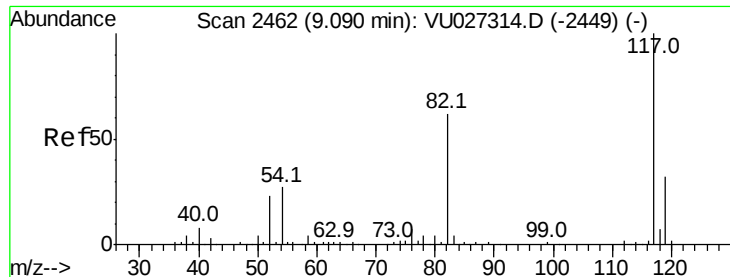
Tot Ion: 98 Resp: 320428  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.1 78.1



#62  
4-Bromofluorobenzene  
Concen: 57.566 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. -0.00 min  
Lab File: VU027417.D  
Acq: 04 Oct 2018 18:50

Tgt Ion: 95 Resp: 115893  
Ion Ratio Lower Upper  
95 100  
174 75.9 0.0 147.8  
176 73.2 0.0 140.8

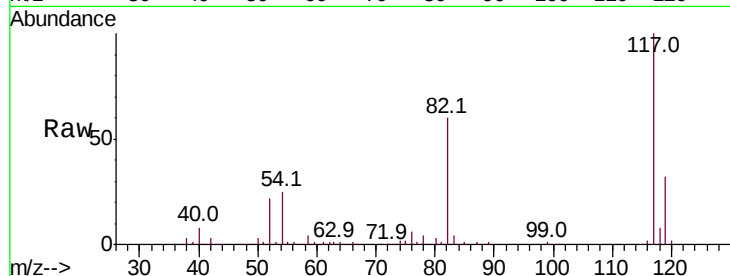




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU027417.D  
Acq: 04 Oct 2018 18:50

Instrument :  
MSVOA\_U  
ClientSampleId :  
TRIP-BLANK

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 60.3  | 49.2  | 73.8  |
| 119     | 32.4  | 25.7  | 38.5  |

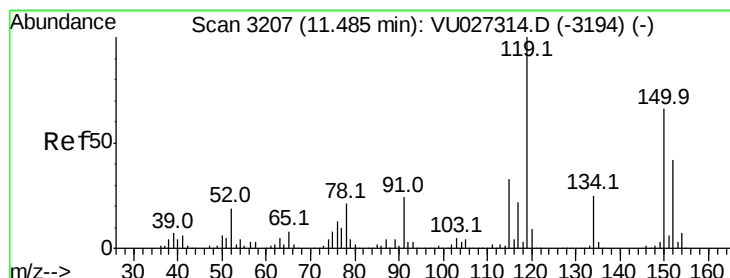
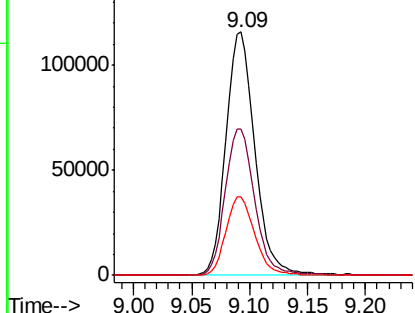
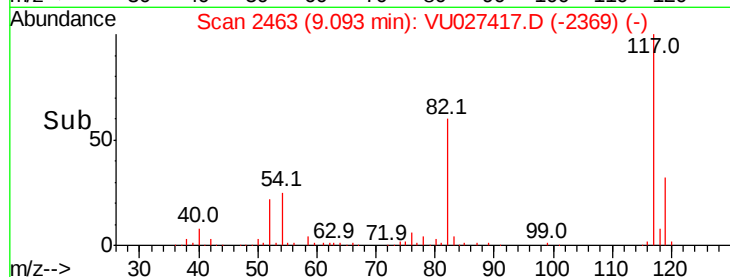


Abundance

Ion 116.90 (116.60 to 117.60): V

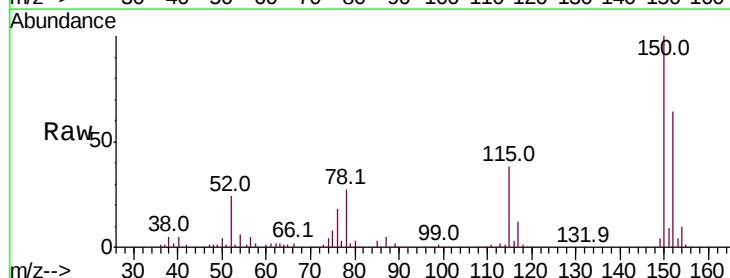
Ion 82.00 (81.70 to 82.70): V

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: VU027417.D  
Acq: 04 Oct 2018 18:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.6  | 43.4  | 130.2 |
| 150     | 156.1 | 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

