

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072718\  
 Data File : VU025702.D  
 Acq On : 28 Jul 2018 04:59  
 Operator : MD/SY  
 Sample : J4069-04  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 KY030SP005-180718

Quant Time: Jul 30 09:00:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 27 13:11:52 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 170693   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 266206   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 262445   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 157443   | 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   | 131494   | 49.44 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.88% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 110508   | 47.73 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.46% |          |
| 50) Toluene-d8              | 7.57  | 98   | 393137   | 48.52 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.04% |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 152660   | 48.54 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.08% |          |

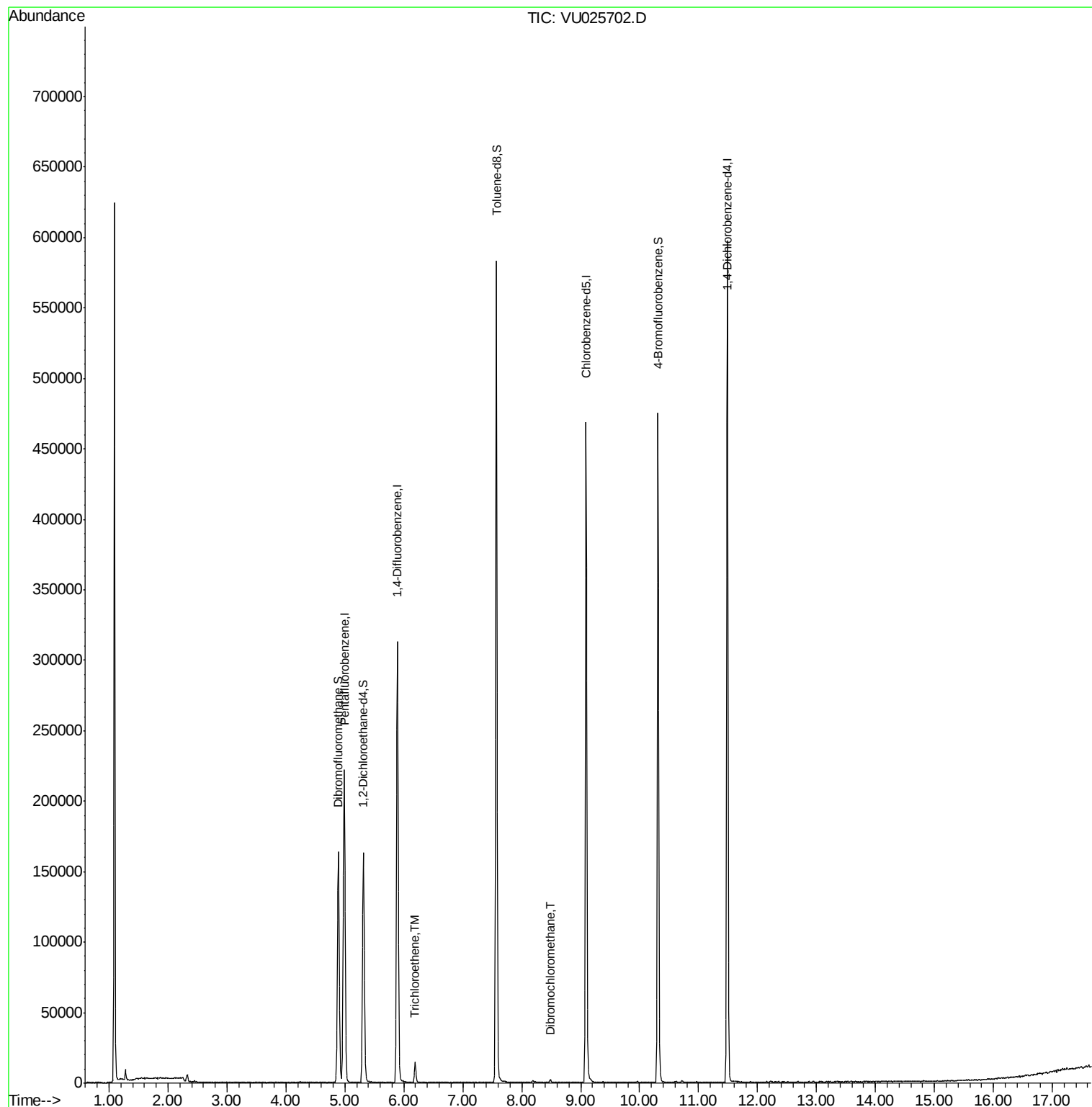
| Target Compounds         | R.T. | QIon | Response | Conc | Units | Qvalue |
|--------------------------|------|------|----------|------|-------|--------|
| 44) Trichloroethene      | 6.19 | 130  | 4973     | 1.96 | ug/l  | 89     |
| 60) Dibromochloromethane | 8.48 | 129  | 1171     | 0.42 | ug/l  | 90     |

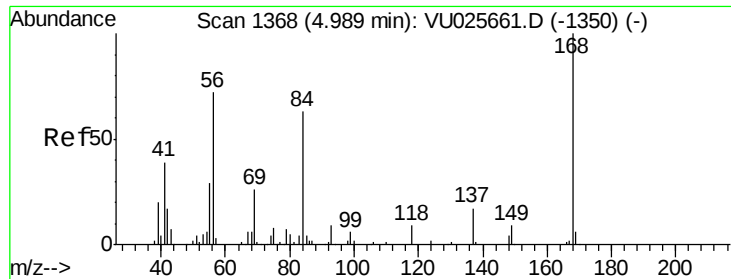
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 27 13:11:52 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025702.D

Acq: 28 Jul 2018 04:59

Instrument :

MSVOA\_U

ClientSampleId :

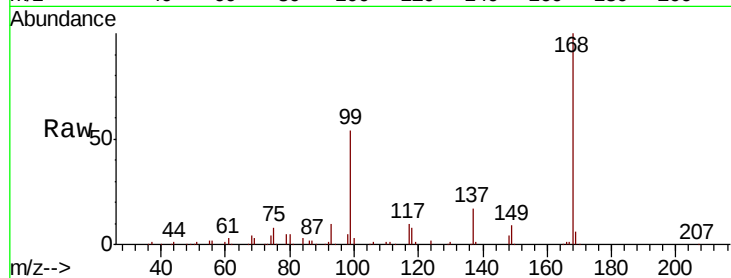
KY030SP005-180718

Tot Ion:168 Resp: 170693

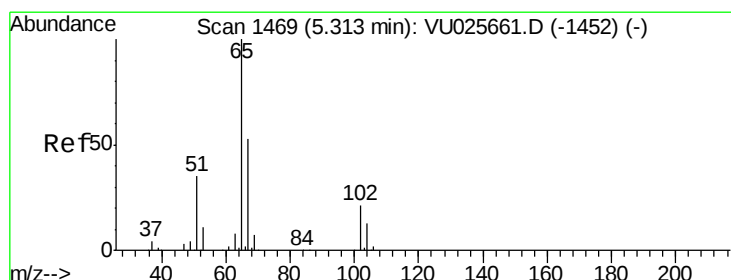
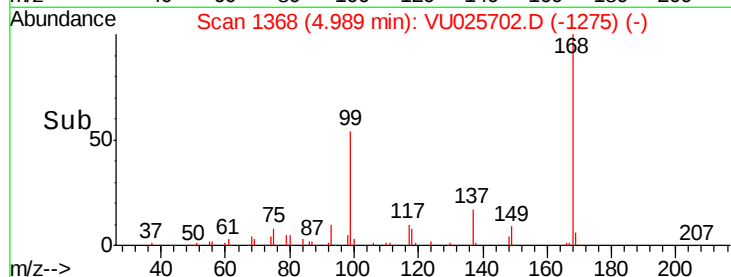
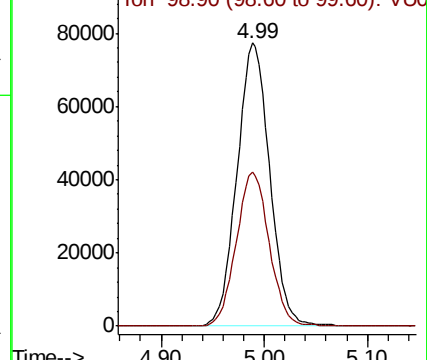
Ion Ratio Lower Upper

168 100

99 54.2 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025661.D (-1350) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.44 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025702.D

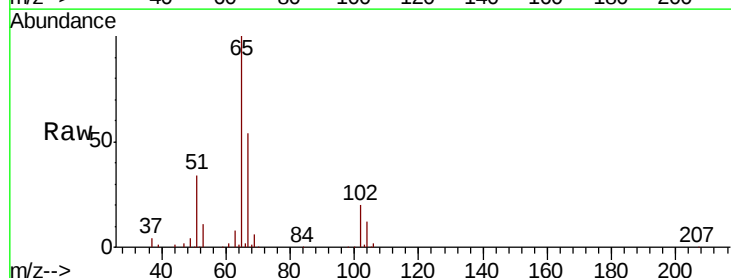
Acq: 28 Jul 2018 04:59

Tgt Ion: 65 Resp: 131494

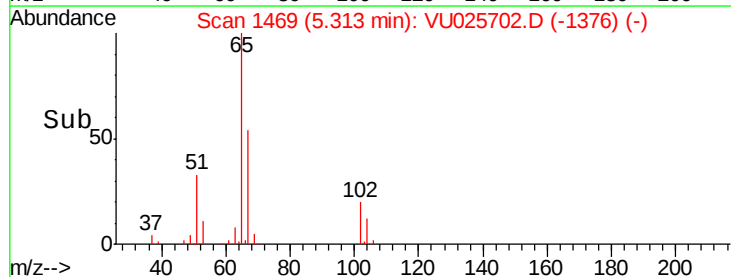
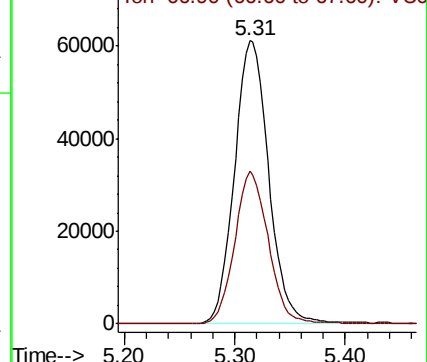
Ion Ratio Lower Upper

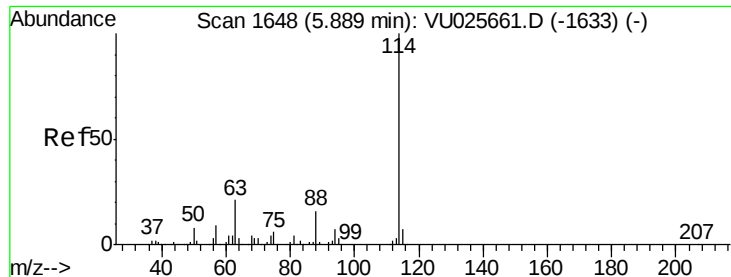
65 100

67 53.0 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU025661.D (-1452) (-)

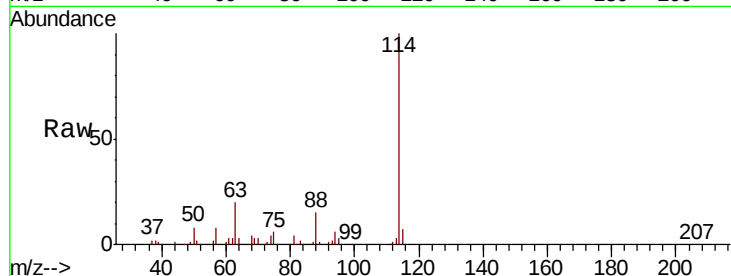




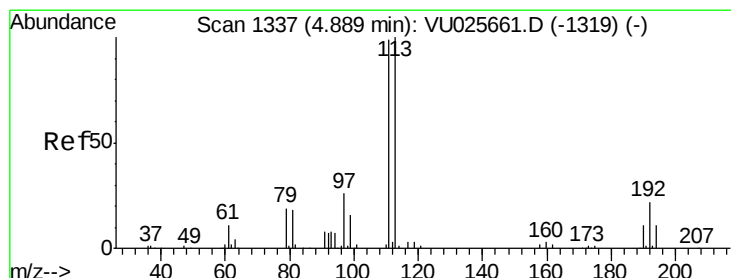
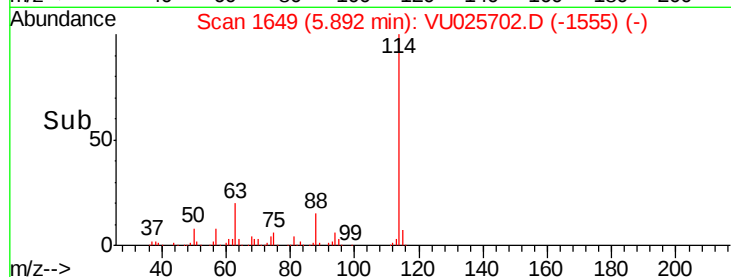
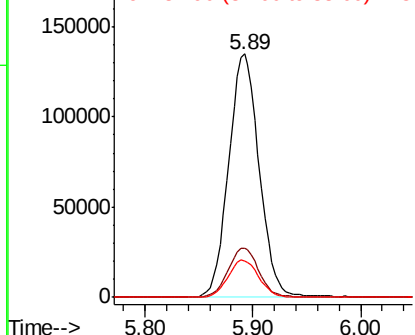
#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 5.89 min Scan# 1649  
Delta R.T. 0.00 min  
Lab File: VU025702.D  
Acq: 28 Jul 2018 04:59

Instrument :  
MSVOA\_U  
ClientSampleId :  
KY030SP005-180718

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.3  | 0.0   | 41.6  |
| 88      | 15.1  | 0.0   | 32.4  |

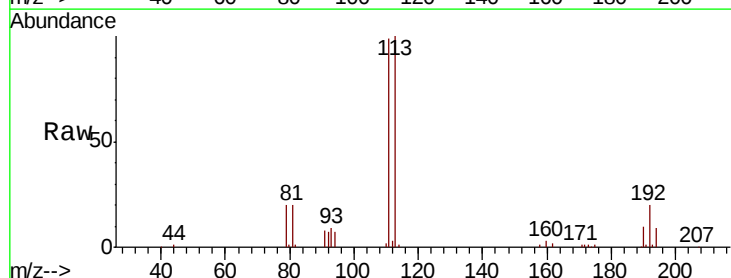


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VU0  
Ion 87.90 (87.60 to 88.60): VU0

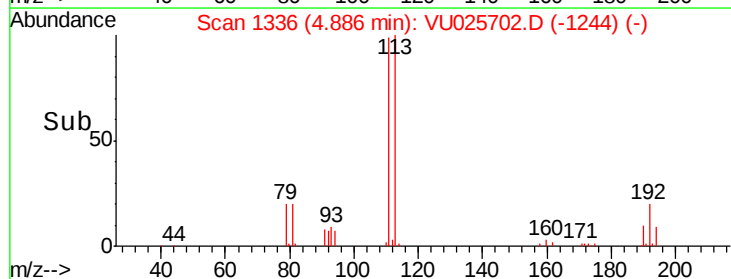
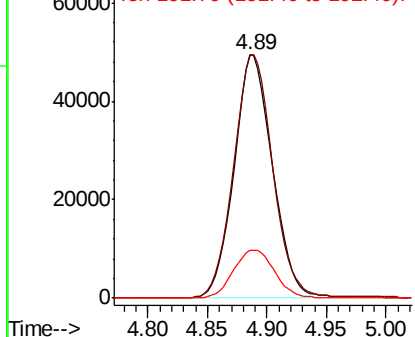


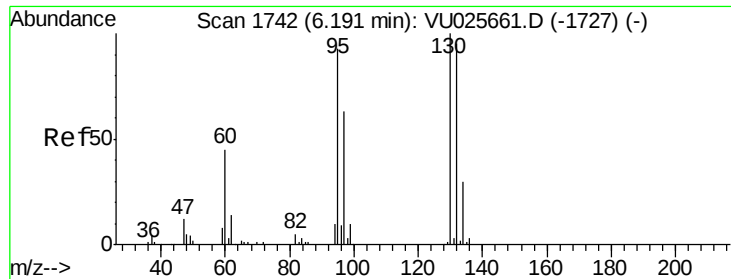
#35  
Dibromofluoromethane  
Concen: 47.73 ug/l  
RT: 4.89 min Scan# 1336  
Delta R.T. -0.00 min  
Lab File: VU025702.D  
Acq: 28 Jul 2018 04:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.8 | 81.7  | 122.5 |
| 192     | 21.0  | 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





#44

Trichloroethene

Concen: 1.96 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU025702.D

Acq: 28 Jul 2018 04:59

Instrument :

MSVOA\_U

ClientSampleId :

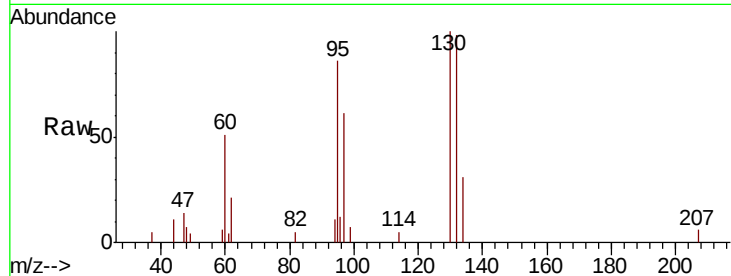
KY030SP005-180718

Tot Ion:130 Resp: 4973

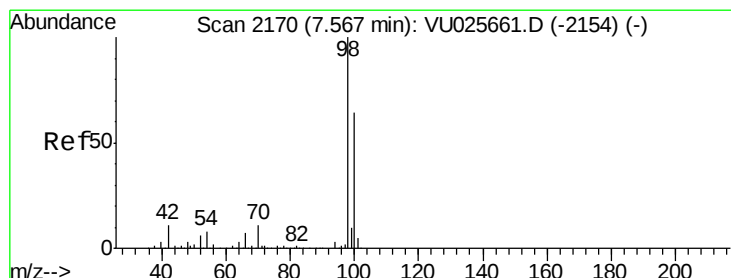
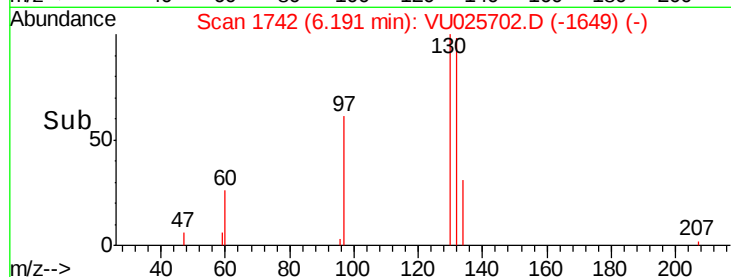
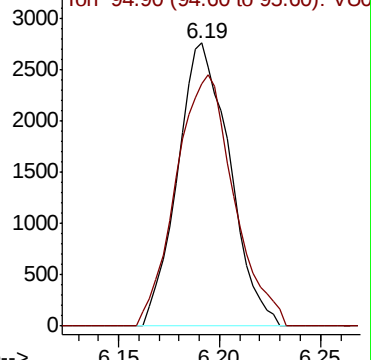
Ion Ratio Lower Upper

130 100

95 85.8 0.0 192.2



Abundance Ion 129.80 (129.50 to 130.50): VU025661.D (-1727) (-)



#50

Toluene-d8

Concen: 48.52 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025702.D

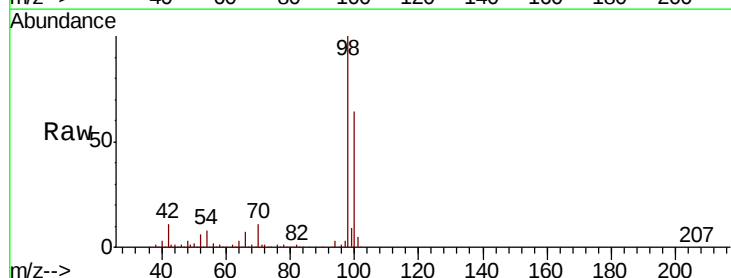
Acq: 28 Jul 2018 04:59

Tgt Ion: 98 Resp: 393137

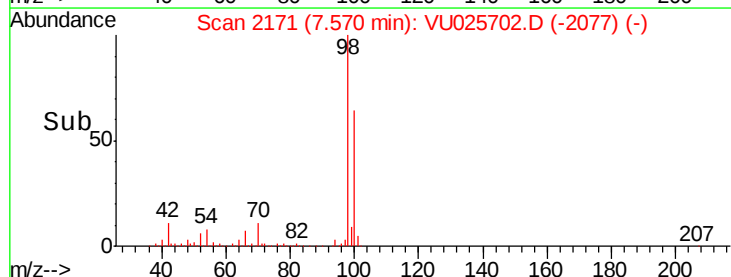
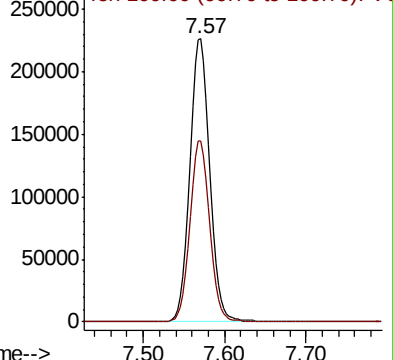
Ion Ratio Lower Upper

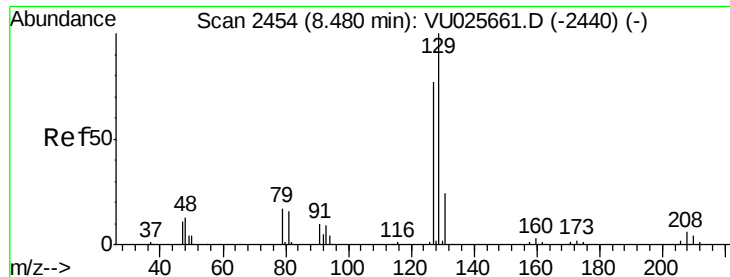
98 100

100 63.3 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU025661.D (-2154) (-)

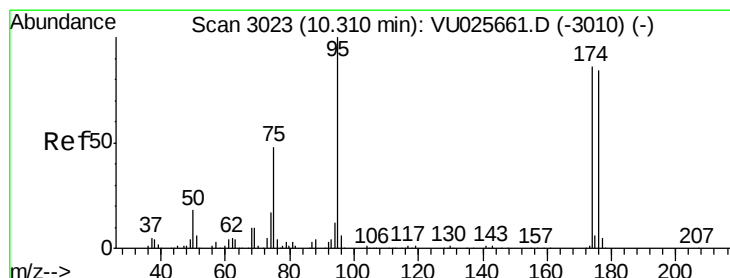
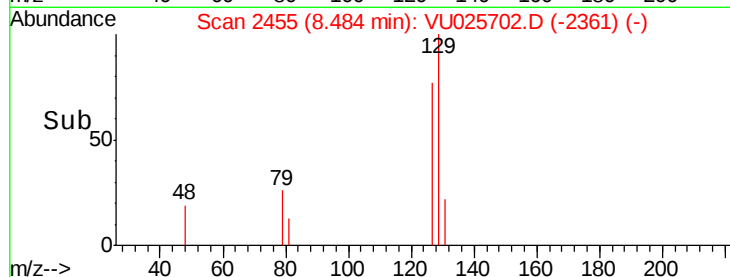
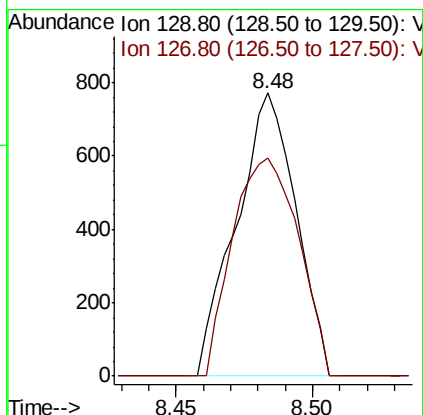
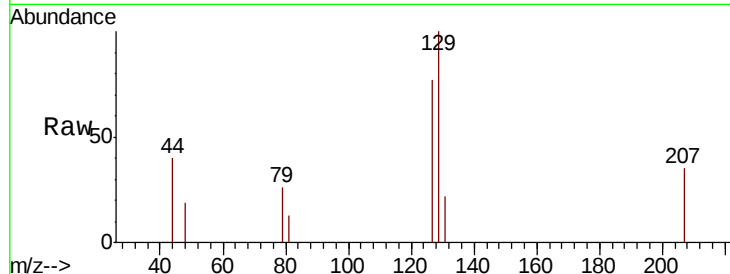




#60  
 Dibromochloromethane  
 Concen: 0.42 ug/l  
 RT: 8.48 min Scan# 2455  
 Delta R.T. 0.00 min  
 Lab File: VU025702.D  
 Acq: 28 Jul 2018 04:59

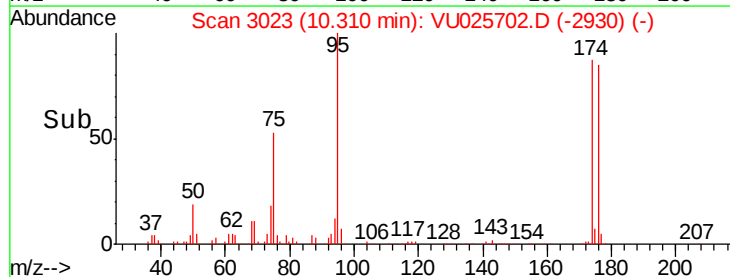
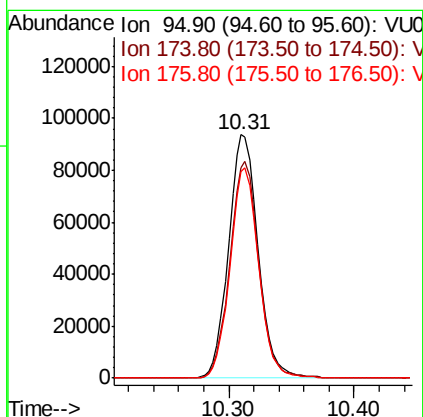
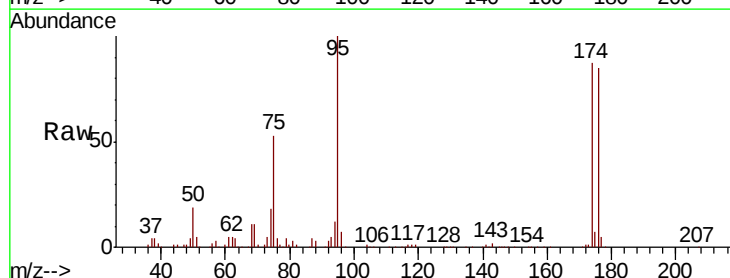
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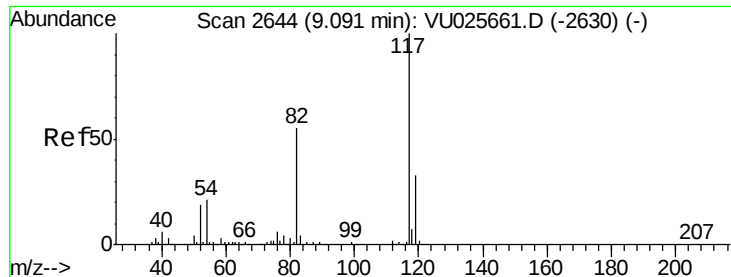
Tot Ion:129 Resp: 1171  
 Ion Ratio Lower Upper  
 129 100  
 127 85.5 38.6 115.8



#62  
 4-Bromofluorobenzene  
 Concen: 48.54 ug/l  
 RT: 10.31 min Scan# 3023  
 Delta R.T. 0.00 min  
 Lab File: VU025702.D  
 Acq: 28 Jul 2018 04:59

Tgt Ion: 95 Resp: 152660  
 Ion Ratio Lower Upper  
 95 100  
 174 87.4 0.0 172.2  
 176 84.1 0.0 162.6

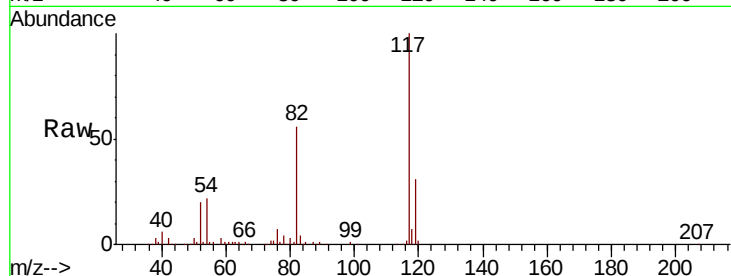




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.09 min Scan# 2644  
Delta R.T. 0.00 min  
Lab File: VU025702.D  
Acq: 28 Jul 2018 04:59

Instrument :  
MSVOA\_U  
ClientSampleId :  
KY030SP005-180718

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.6  | 46.0  | 69.0  |
| 119     | 31.3  | 26.0  | 39.0  |

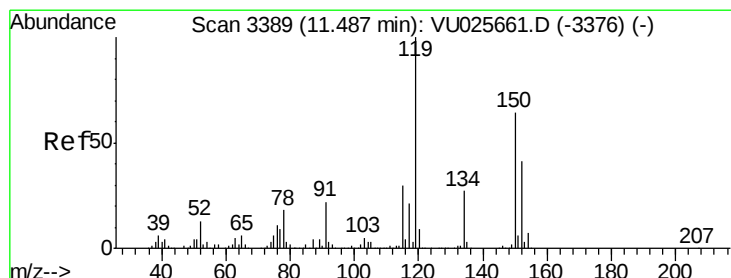
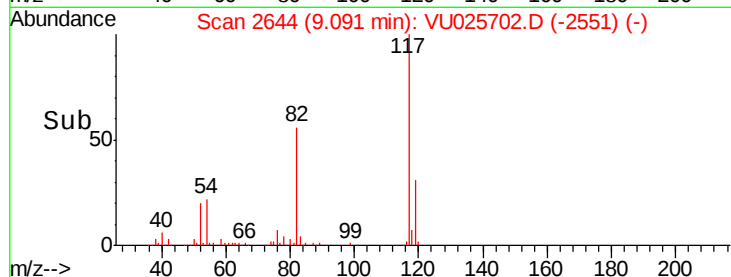
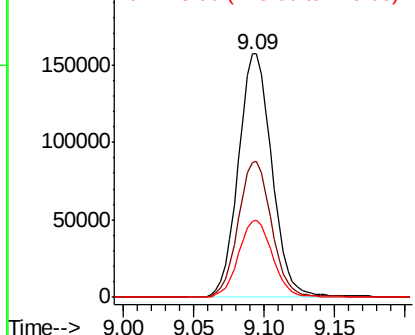


Abundance

Ion 116.90 (116.60 to 117.60): V

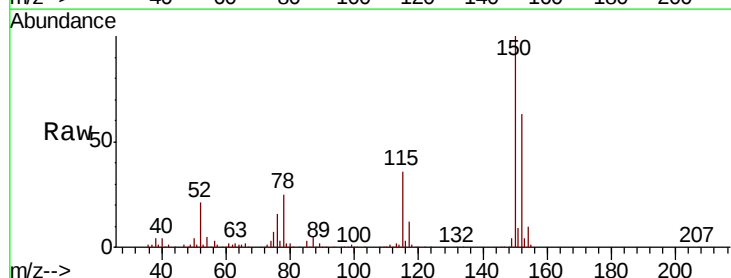
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 11.49 min Scan# 3389  
Delta R.T. 0.00 min  
Lab File: VU025702.D  
Acq: 28 Jul 2018 04:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.5  | 40.1  | 120.3 |
| 150     | 159.4 | 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

