

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010519\  
 Data File : VU029034.D  
 Acq On : 04 Jan 2019 17:53  
 Operator : MD/SY  
 Sample : K1055-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-1

Quant Time: Jan 05 04:25:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 04 02:22:53 2019  
 Response via : Initial Calibration

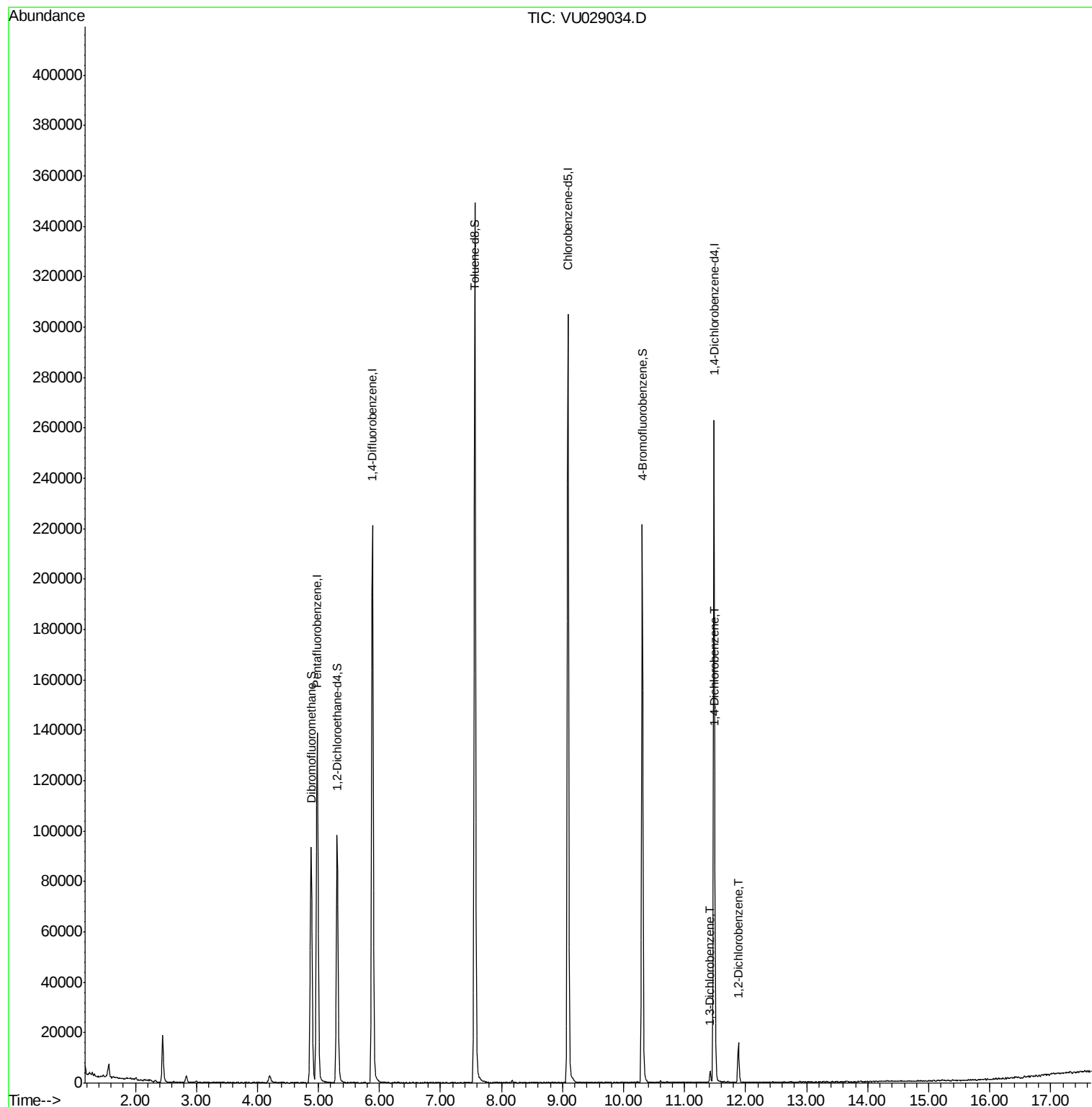
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 4.98  | 168  | 113196   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.88  | 114  | 192552   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 9.09  | 117  | 177034   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 11.48 | 152  | 70139    | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 75740    | 54.13 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 108.26% |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 65589    | 52.55 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 105.10% |          |
| 50) Toluene-d8              | 7.56  | 98   | 240076   | 48.72 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.44%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 76654    | 43.29 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 86.58%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 87) 1,3-Dichlorobenzene     | 11.42 | 146  | 2399     | 0.967 | ug/l    | 98       |
| 88) 1,4-Dichlorobenzene     | 11.50 | 146  | 2279     | 0.890 | ug/l    | 93       |
| 91) 1,2-Dichlorobenzene     | 11.88 | 146  | 7561     | 3.025 | ug/l    | 99       |

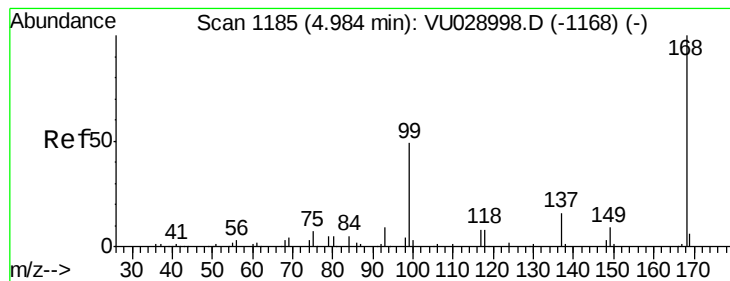
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : K1055-01  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 14 Sample Multiplier: 1

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MSVOA\_U  
ClientSampleId :  
MW-1

Quant Time: Jan 05 04:25:24 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 04 02:22:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029034.D

Acq: 04 Jan 2019 17:53

Instrument :

MSVOA\_U

ClientSampleId :

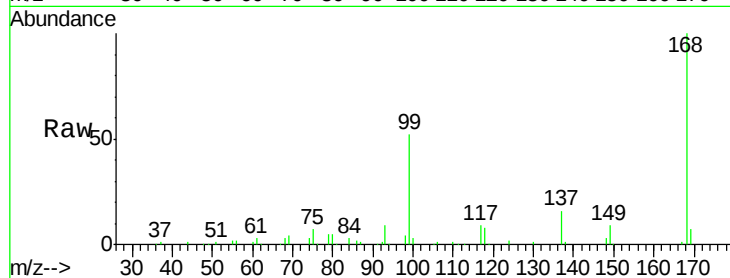
MW-1

Tot Ion:168 Resp: 113196

Ion Ratio Lower Upper

168 100

99 52.2 42.0 63.0

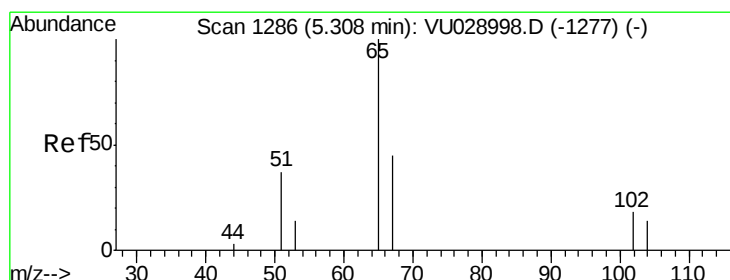
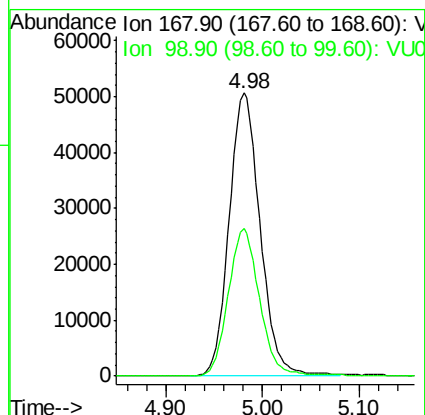
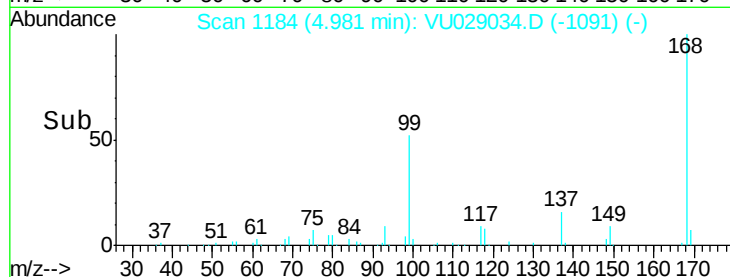


Abundance Ion 167.90 (167.60 to 168.60): VU028998.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028998.D (-1168) (-)

4.98

Time-->



#33

1,2-Dichloroethane-d4

Concen: 54.126 ug/l

RT: 5.31 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VU029034.D

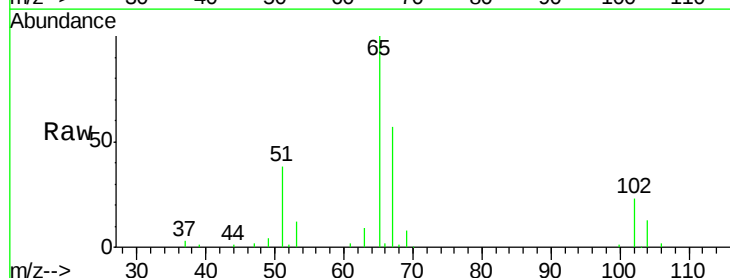
Acq: 04 Jan 2019 17:53

Tgt Ion: 65 Resp: 75740

Ion Ratio Lower Upper

65 100

67 56.2 0.0 111.0

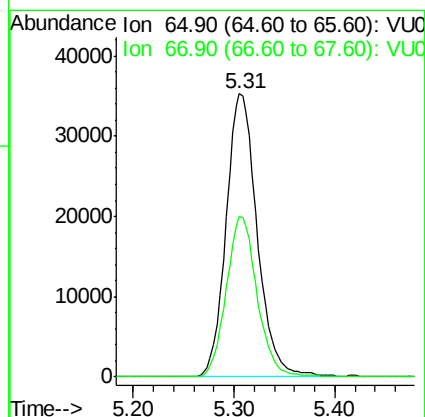
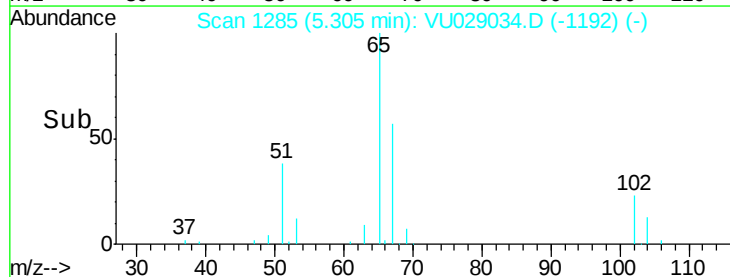


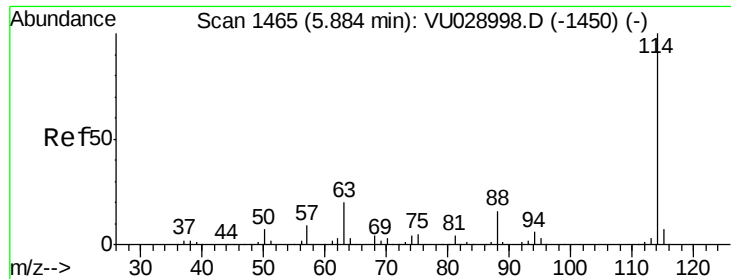
Abundance Ion 64.90 (64.60 to 65.60): VU028998.D (-1277) (-)

Ion 66.90 (66.60 to 67.60): VU028998.D (-1277) (-)

5.31

Time-->

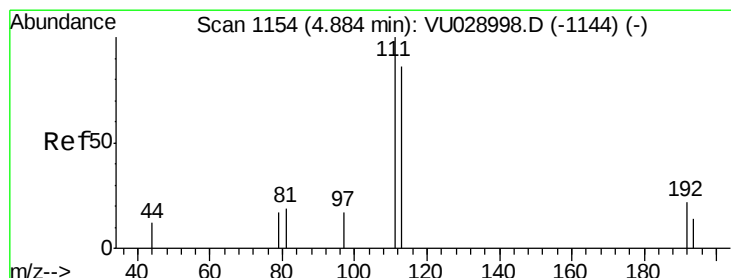
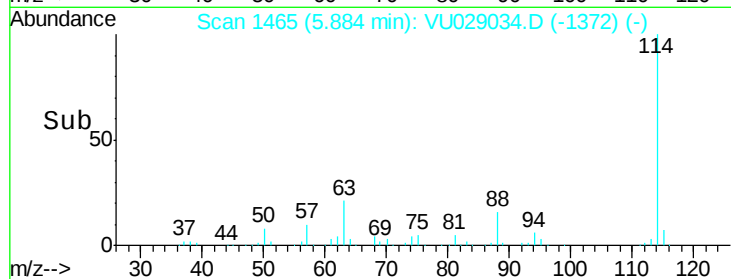
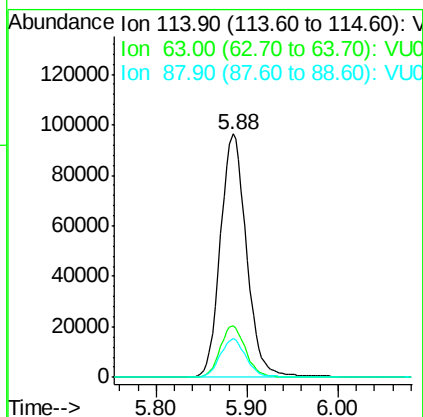
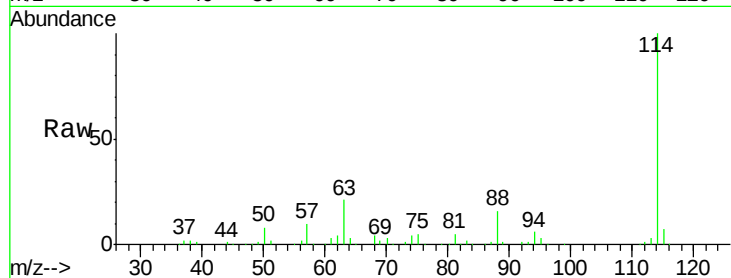




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.88 min Scan# 1465  
 Delta R.T. 0.00 min  
 Lab File: VU029034.D  
 Acq: 04 Jan 2019 17:53

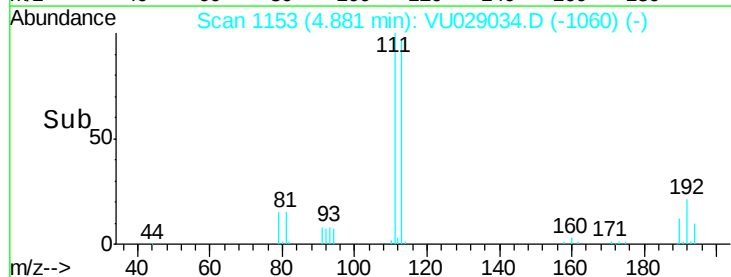
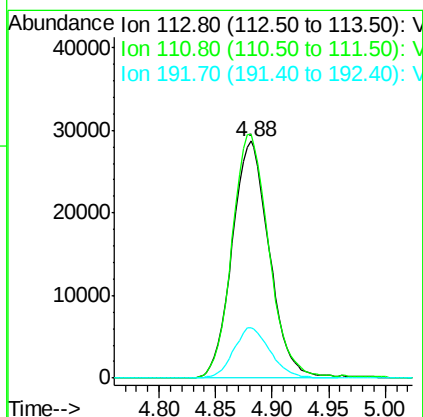
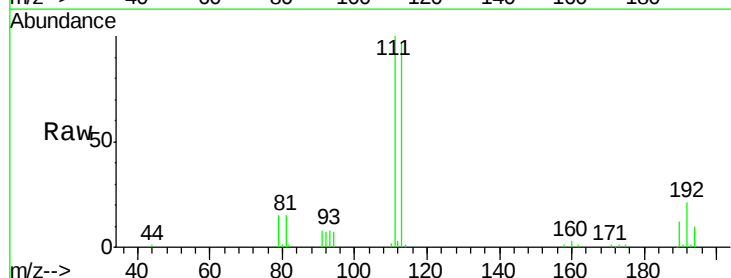
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-1

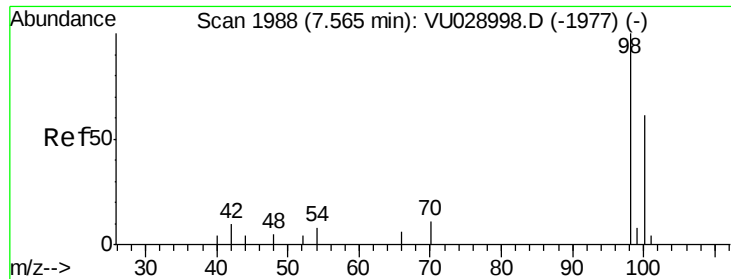
Tot Ion:114 Resp: 192552  
 Ion Ratio Lower Upper  
 114 100  
 63 21.1 0.0 40.2  
 88 15.8 0.0 30.4



#35  
 Dibromofluoromethane  
 Concen: 52.548 ug/l  
 RT: 4.88 min Scan# 1153  
 Delta R.T. 0.00 min  
 Lab File: VU029034.D  
 Acq: 04 Jan 2019 17:53

Tgt Ion:113 Resp: 65589  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 81.4 122.2  
 192 20.8 16.8 25.2

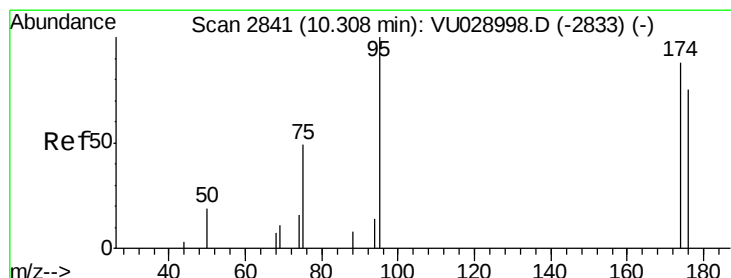
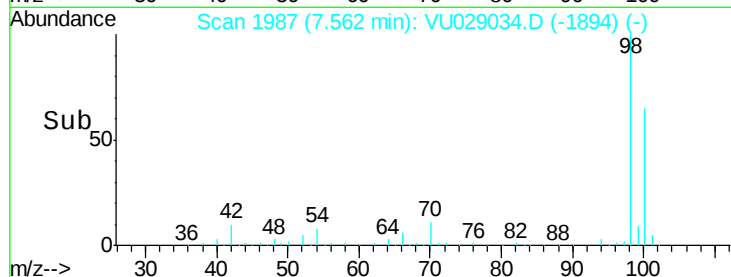
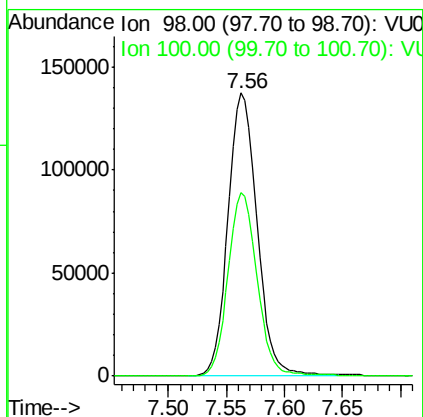
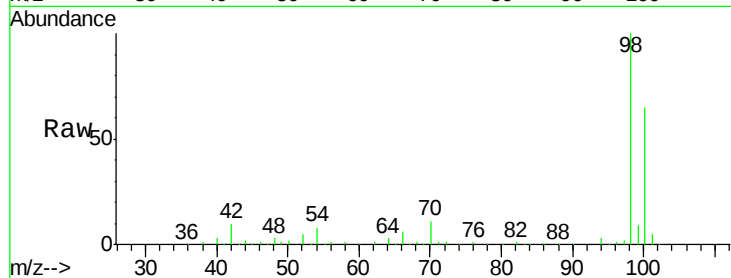




#50  
Toluene-d8  
Concen: 48.720 ug/l  
RT: 7.56 min Scan# 1987  
Delta R.T. 0.00 min  
Lab File: VU029034.D  
Acq: 04 Jan 2019 17:53

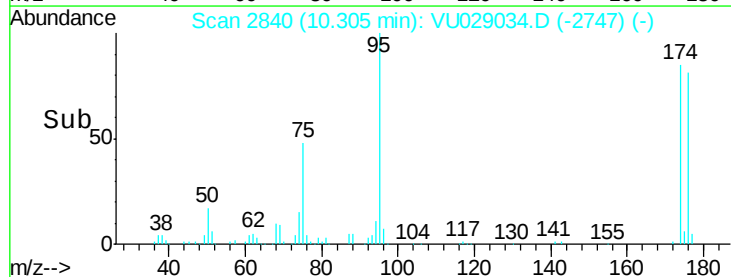
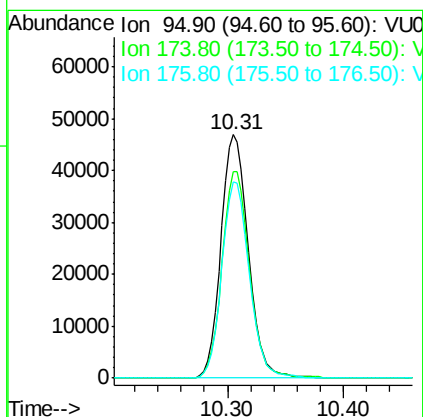
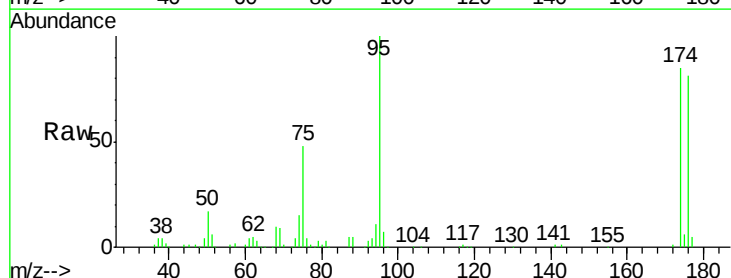
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-1

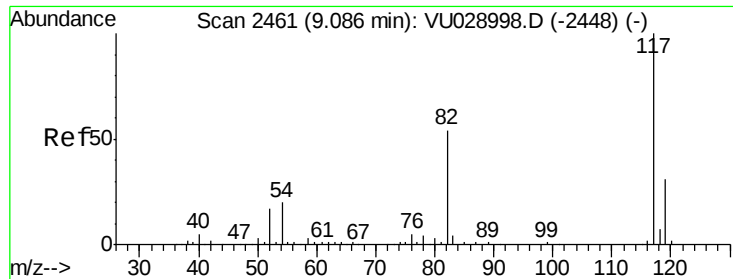
Tot Ion: 98 Resp: 240076  
Ion Ratio Lower Upper  
98 100  
100 64.7 51.6 77.4



#62  
4-Bromofluorobenzene  
Concen: 43.285 ug/l  
RT: 10.31 min Scan# 2840  
Delta R.T. 0.00 min  
Lab File: VU029034.D  
Acq: 04 Jan 2019 17:53

Tgt Ion: 95 Resp: 76654  
Ion Ratio Lower Upper  
95 100  
174 85.0 0.0 170.6  
176 80.7 0.0 165.0

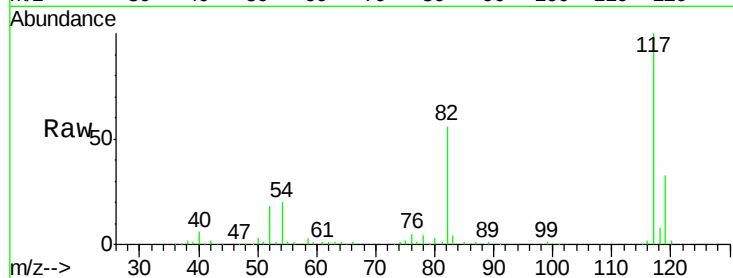




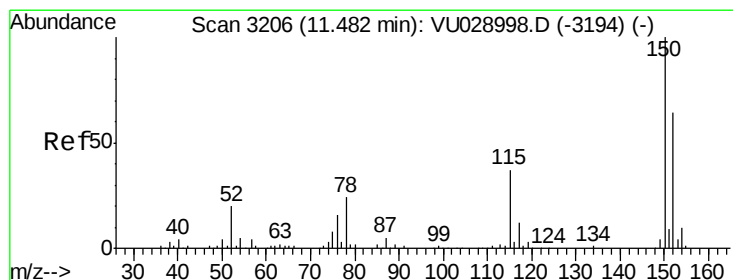
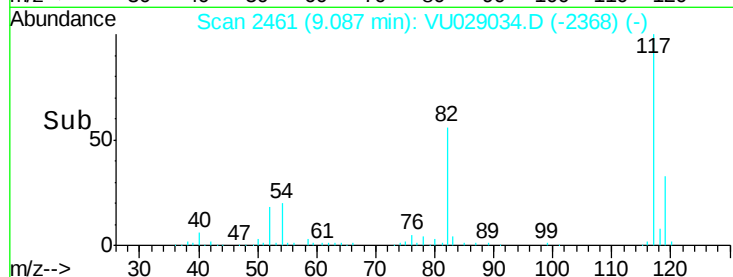
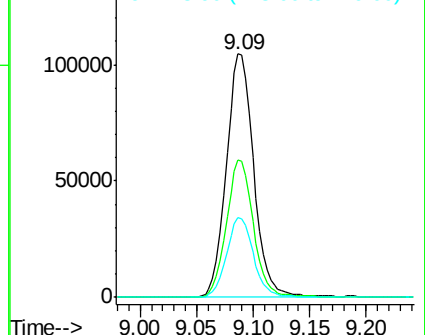
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2461  
Delta R.T. 0.00 min  
Lab File: VU029034.D  
Acq: 04 Jan 2019 17:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-1

Tot Ion:117 Resp: 177034  
Ion Ratio Lower Upper  
117 100  
82 56.4 43.9 65.9  
119 32.6 26.0 39.0

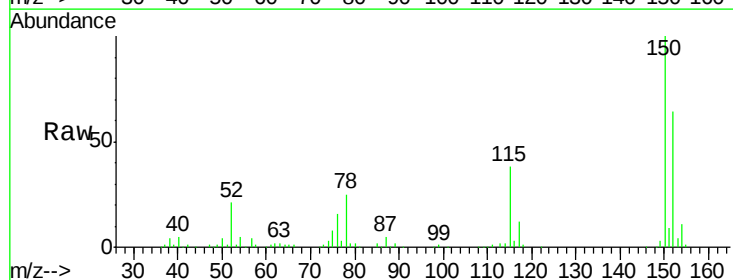


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

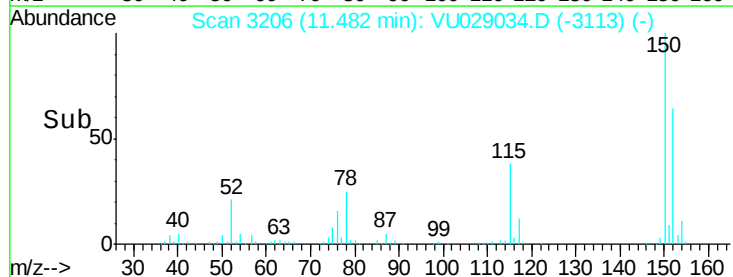
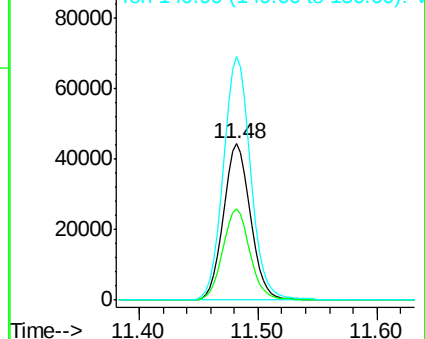


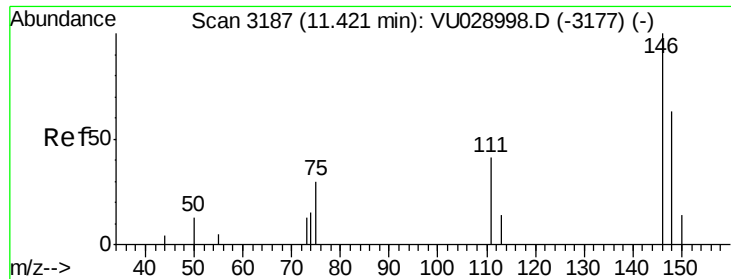
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3206  
Delta R.T. 0.00 min  
Lab File: VU029034.D  
Acq: 04 Jan 2019 17:53

Tgt Ion:152 Resp: 70139  
Ion Ratio Lower Upper  
152 100  
115 58.5 40.1 120.3  
150 156.7 0.0 345.2



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

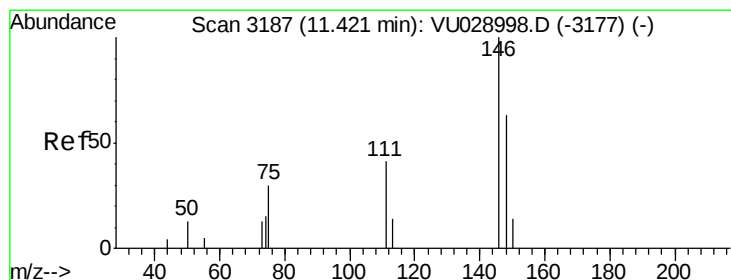
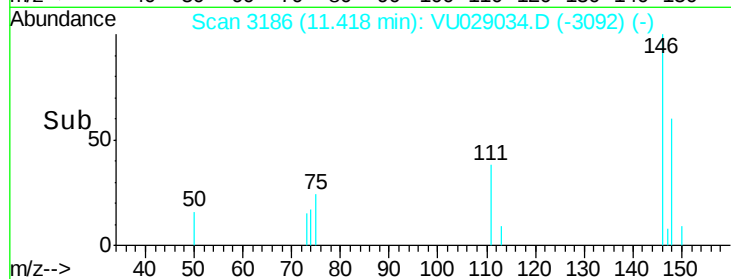
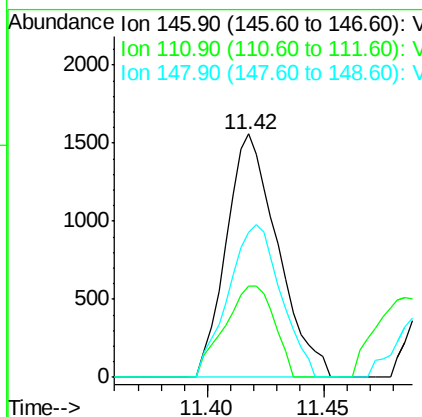
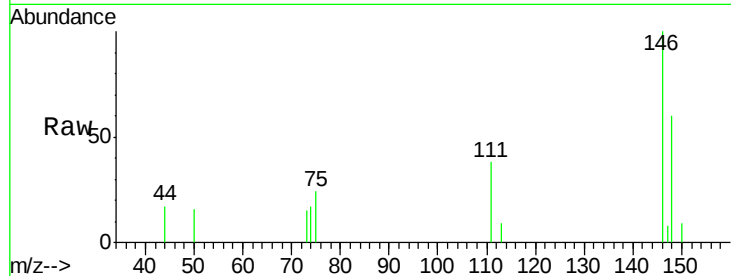




#87  
 1,3-Dichlorobenzene  
 Concen: 0.967 ug/l  
 RT: 11.42 min Scan# 3186  
 Delta R.T. 0.00 min  
 Lab File: VU029034.D  
 Acq: 04 Jan 2019 17:53

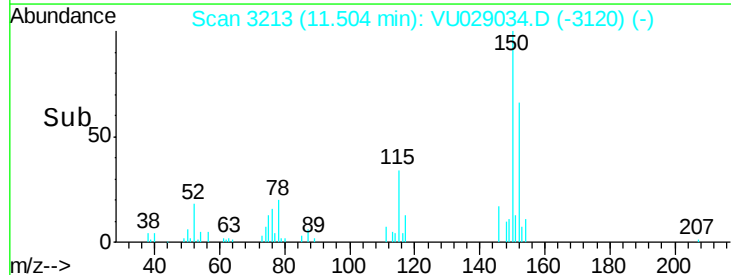
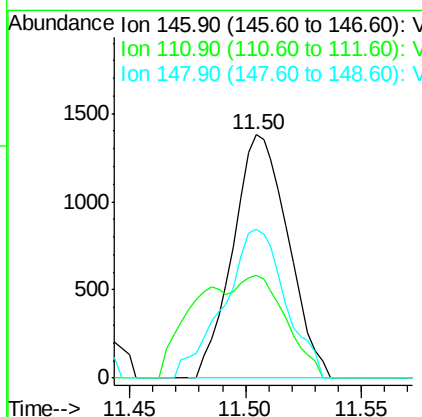
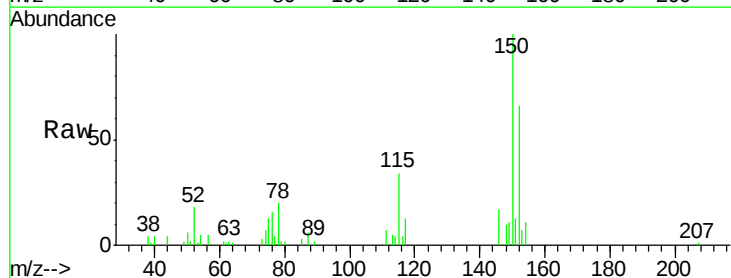
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MW-1

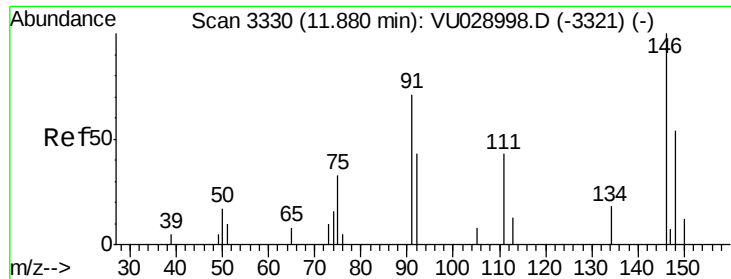
Tot Ion:146 Resp: 2399  
 Ion Ratio Lower Upper  
 146 100  
 111 36.2 19.3 57.8  
 148 63.9 32.5 97.5



#88  
 1,4-Dichlorobenzene  
 Concen: 0.890 ug/l  
 RT: 11.50 min Scan# 3213  
 Delta R.T. 0.00 min  
 Lab File: VU029034.D  
 Acq: 04 Jan 2019 17:53

Tgt Ion:146 Resp: 2279  
 Ion Ratio Lower Upper  
 146 100  
 111 30.1 19.1 57.3  
 148 68.0 32.6 98.0





#91  
 1,2-Dichlorobenzene  
 Concen: 3.025 ug/l  
 RT: 11.88 min Scan# 3330  
 Delta R.T. 0.00 min  
 Lab File: VU029034.D  
 Acq: 04 Jan 2019 17:53

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.4  | 20.0  | 59.9  |
| 148     | 62.3  | 31.6  | 94.8  |

