

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082919\  
 Data File : VU034024.D  
 Acq On : 28 Aug 2019 15:46  
 Operator : JC/SP  
 Sample : VU0829WBL01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0829WBL01

Quant Time: Aug 29 04:35:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U082919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 29 04:11:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.96  | 168  | 515272   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.86  | 114  | 794340   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.07  | 117  | 739891   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 332939   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.29  | 65   | 307164   | 46.52 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.04% |          |
| 35) Dibromofluoromethane    | 4.86  | 113  | 252355   | 45.80 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.60% |          |
| 50) Toluene-d8              | 7.55  | 98   | 983961   | 47.70 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.40% |          |
| 62) 4-Bromofluorobenzene    | 10.29 | 95   | 340649   | 42.45 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.90% |          |

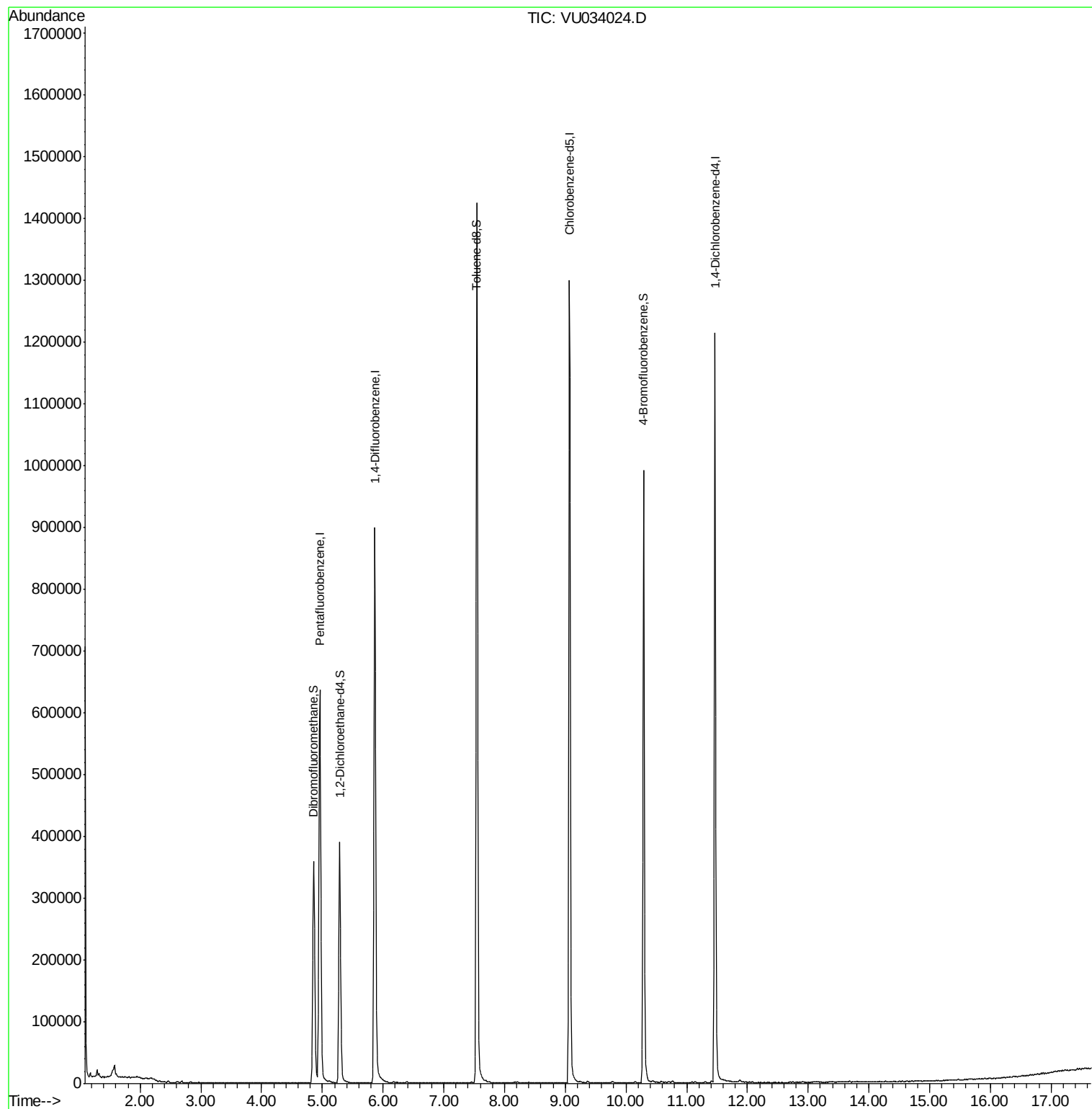
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

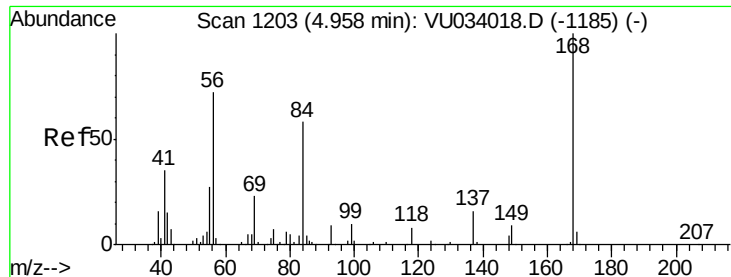
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Aug 29 04:11:12 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VU034024.D

Acq: 28 Aug 2019 15:46

Instrument :

MSVOA\_U

ClientSampleId :

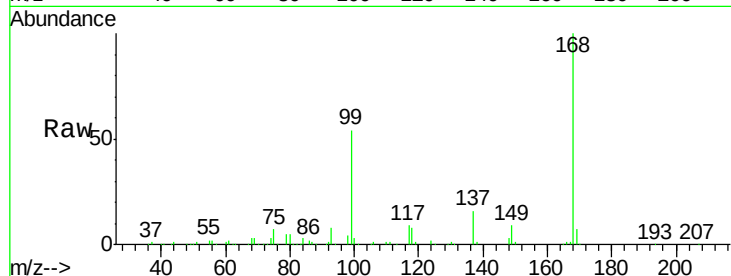
VU0829WBL01

Tot Ion:168 Resp: 515272

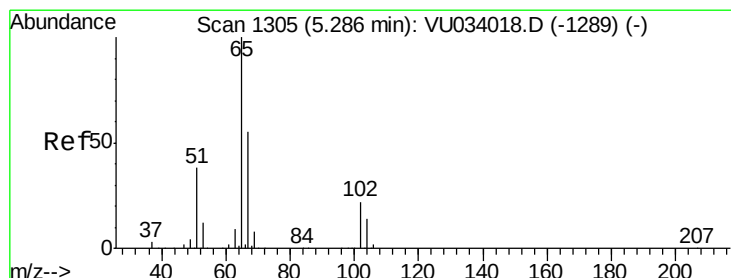
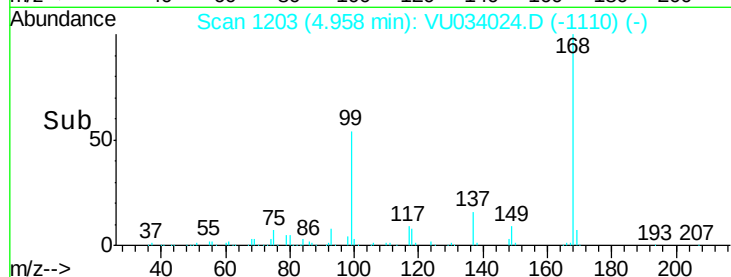
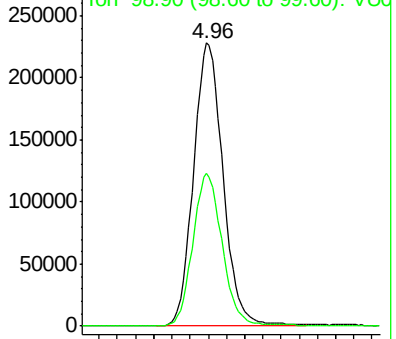
Ion Ratio Lower Upper

168 100

99 53.9 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034024.D (-1185) (-)



#33

1,2-Dichloroethane-d4

Concen: 46.523 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VU034024.D

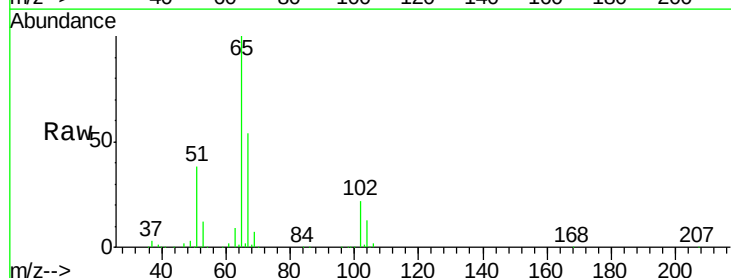
Acq: 28 Aug 2019 15:46

Tgt Ion: 65 Resp: 307164

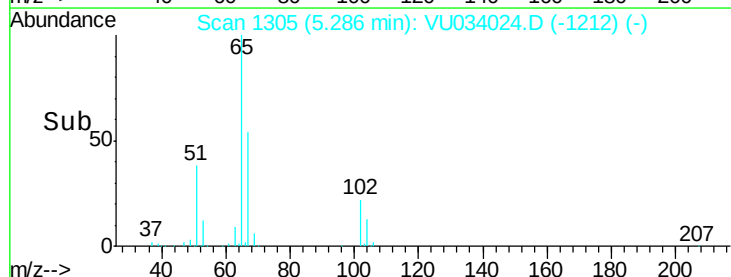
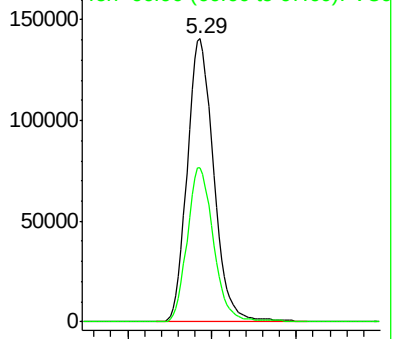
Ion Ratio Lower Upper

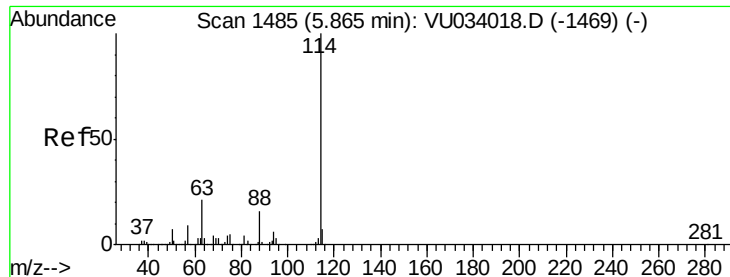
65 100

67 54.1 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034024.D (-1212) (-)

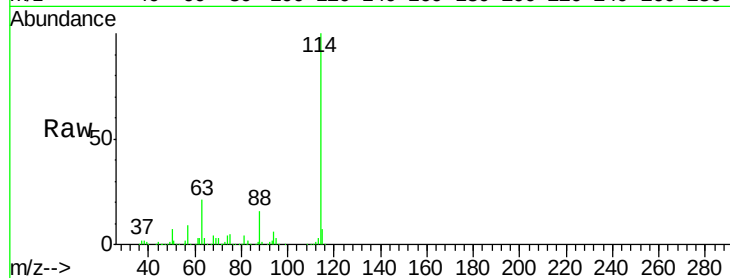




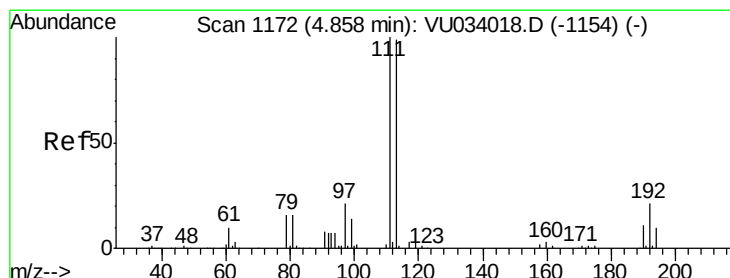
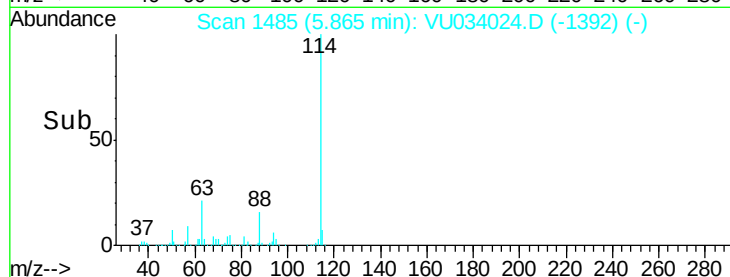
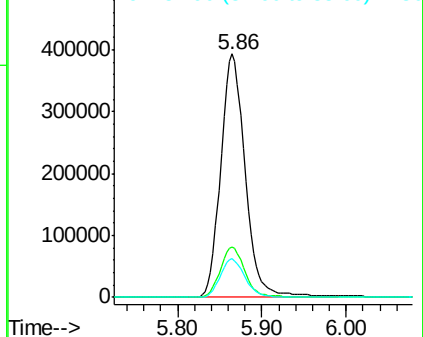
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 5.86 min Scan# 1485  
Delta R.T. 0.00 min  
Lab File: VU034024.D  
Acq: 28 Aug 2019 15:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0829WBL01

Tot Ion:114 Resp: 794340  
Ion Ratio Lower Upper  
114 100  
63 20.8 0.0 42.0  
88 15.9 0.0 32.0

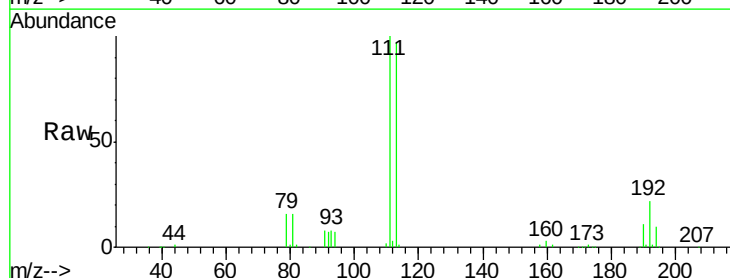


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VU0  
Ion 87.90 (87.60 to 88.60): VU0

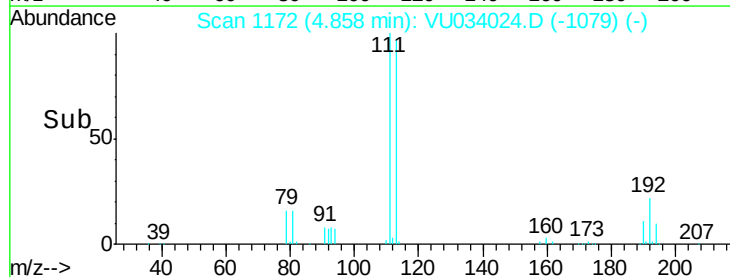
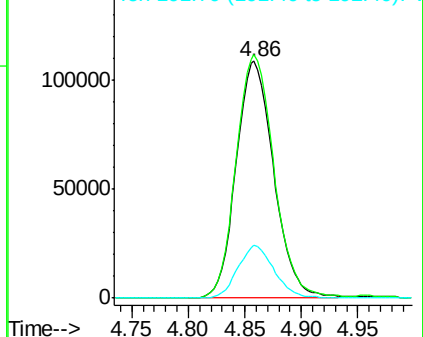


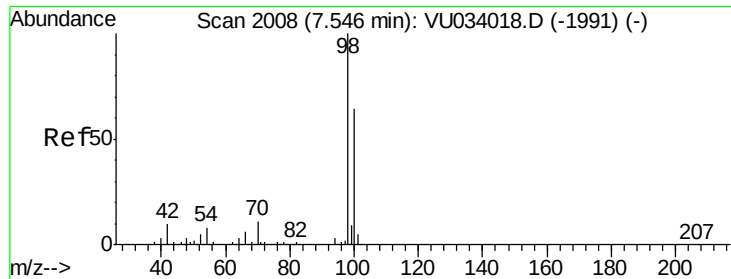
#35  
Dibromofluoromethane  
Concen: 45.804 ug/l  
RT: 4.86 min Scan# 1172  
Delta R.T. 0.00 min  
Lab File: VU034024.D  
Acq: 28 Aug 2019 15:46

Tgt Ion:113 Resp: 252355  
Ion Ratio Lower Upper  
113 100  
111 103.7 81.7 122.5  
192 21.6 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

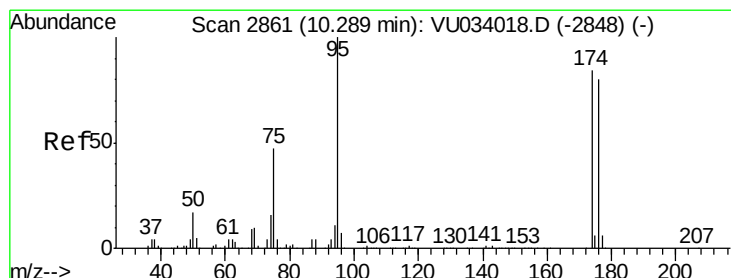
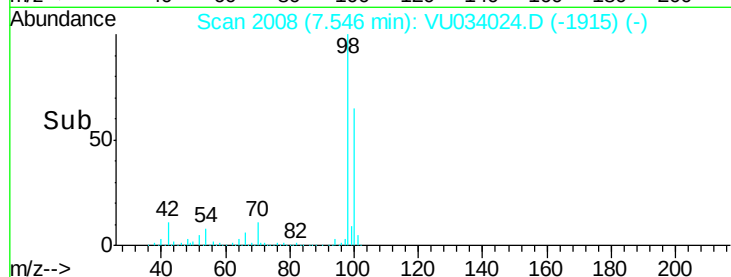
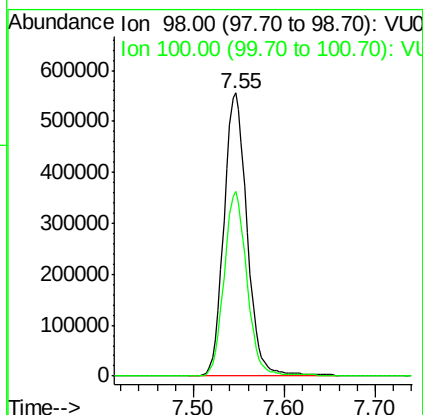
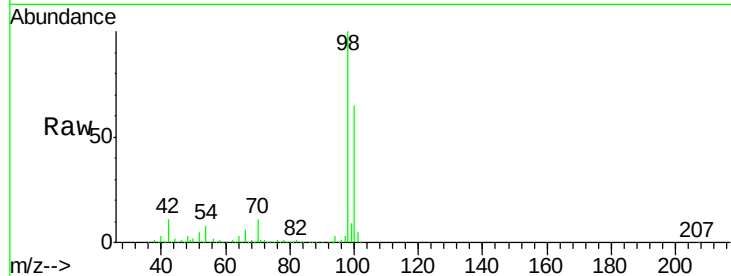




#50  
Toluene-d8  
Concen: 47.697 ug/l  
RT: 7.55 min Scan# 2008  
Delta R.T. 0.00 min  
Lab File: VU034024.D  
Acq: 28 Aug 2019 15:46

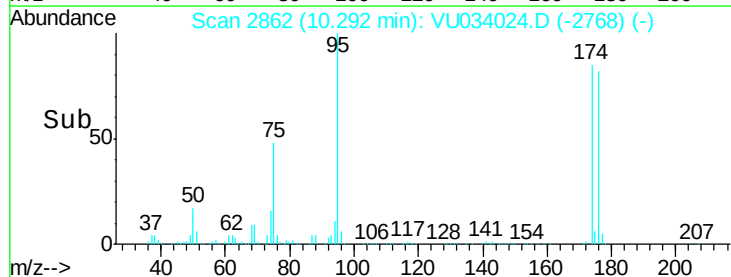
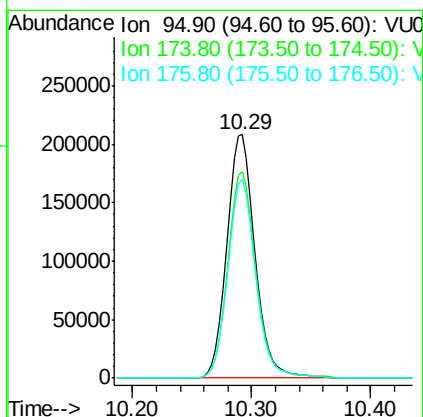
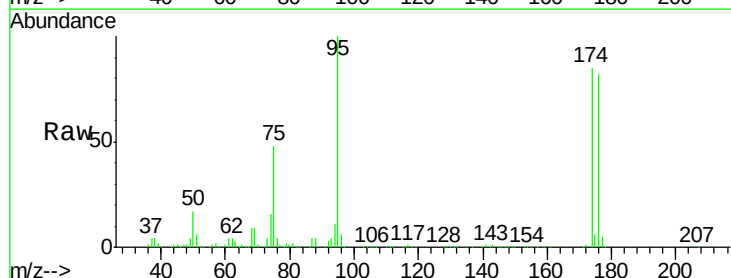
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0829WBL01

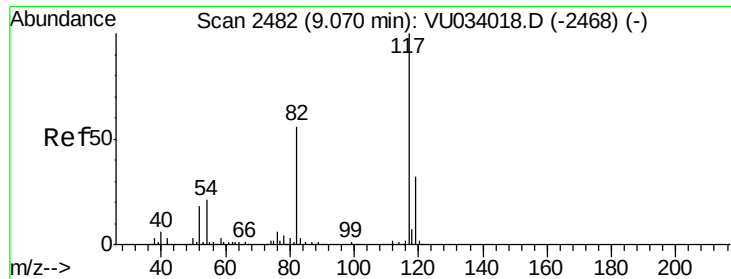
Tot Ion: 98 Resp: 983961  
Ion Ratio Lower Upper  
98 100  
100 64.3 50.3 75.5



#62  
4-Bromofluorobenzene  
Concen: 42.450 ug/l  
RT: 10.29 min Scan# 2862  
Delta R.T. 0.00 min  
Lab File: VU034024.D  
Acq: 28 Aug 2019 15:46

Tgt Ion: 95 Resp: 340649  
Ion Ratio Lower Upper  
95 100  
174 85.2 0.0 168.8  
176 81.3 0.0 161.8

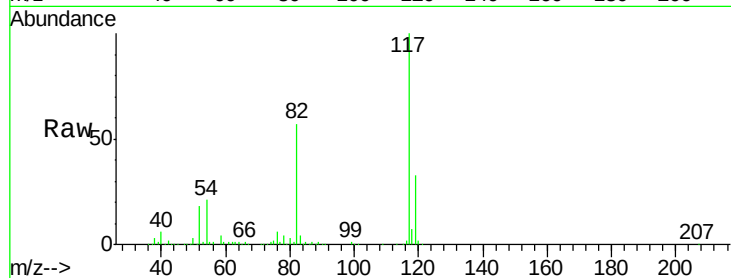




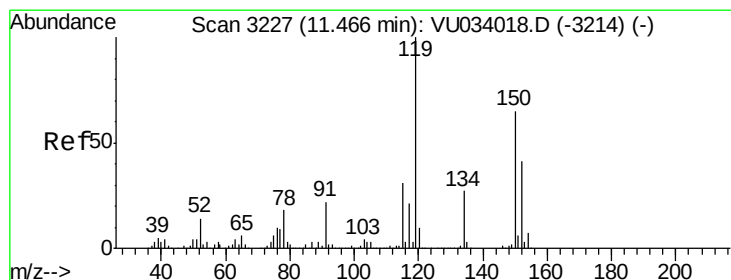
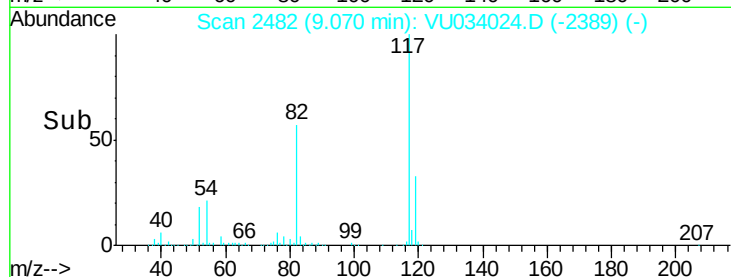
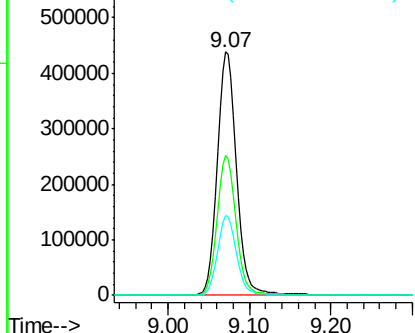
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.07 min Scan# 2482  
Delta R.T. 0.00 min  
Lab File: VU034024.D  
Acq: 28 Aug 2019 15:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0829WBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.5  | 45.1  | 67.7  |
| 119     | 32.5  | 25.4  | 38.0  |

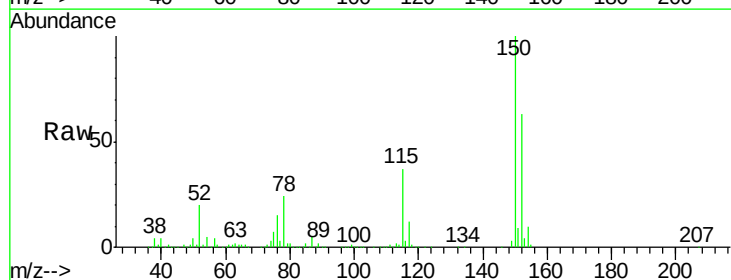


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.47 min Scan# 3227  
Delta R.T. -0.00 min  
Lab File: VU034024.D  
Acq: 28 Aug 2019 15:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.7  | 41.1  | 123.3 |
| 150     | 158.1 | 0.0   | 348.8 |



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

