

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091319\  
 Data File : VN057974.D  
 Acq On : 12 Sep 2019 17:30  
 Operator : JC/SP  
 Sample : VN0913WBL02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0913WBL02

Quant Time: Sep 13 05:49:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091019W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 10 03:02:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 290002   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 486678   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 438694   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 220056   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.01   | 65  | 316474   | 53.88 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.76% |      |
| 35) Dibromofluoromethane    | 7.57   | 113 | 216312   | 48.16 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.32%  |      |
| 50) Toluene-d8              | 10.09  | 98  | 859387   | 49.28 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.56%  |      |
| 62) 4-Bromofluorobenzene    | 12.41  | 95  | 276274   | 41.57 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 83.14%  |      |

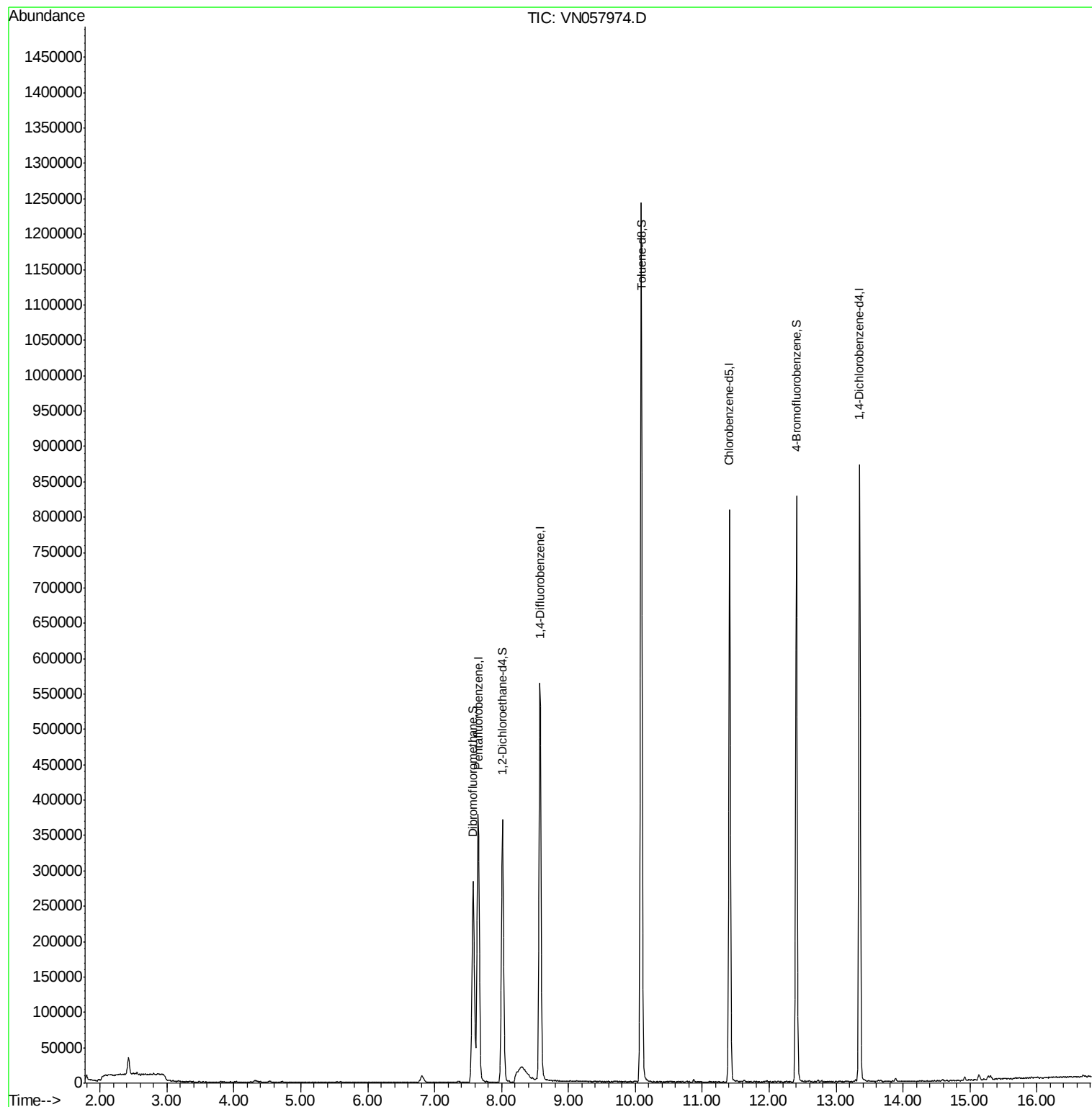
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

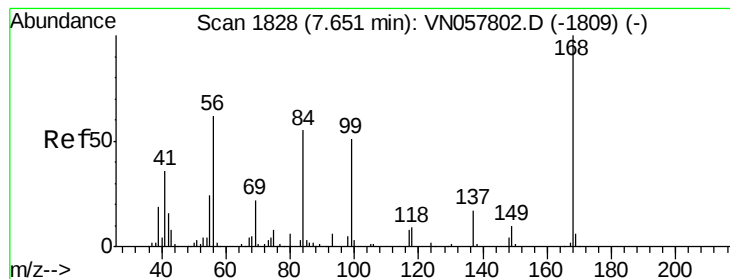
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091319\  
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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0913WBL02

Quant Time: Sep 13 05:49:11 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091019W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 10 03:02:13 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057974.D

Acq: 12 Sep 2019 17:30

Instrument :

MSVOA\_N

ClientSampled :

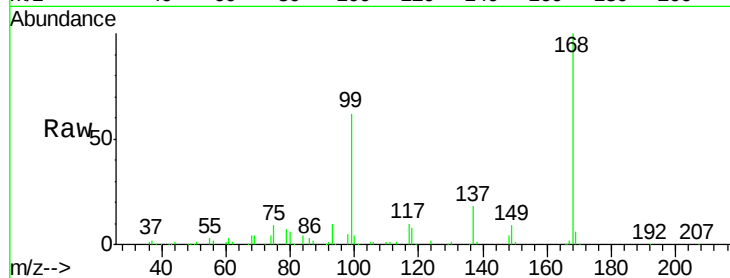
VN0913WBL02

Tot Ion:168 Resp: 290002

Ion Ratio Lower Upper

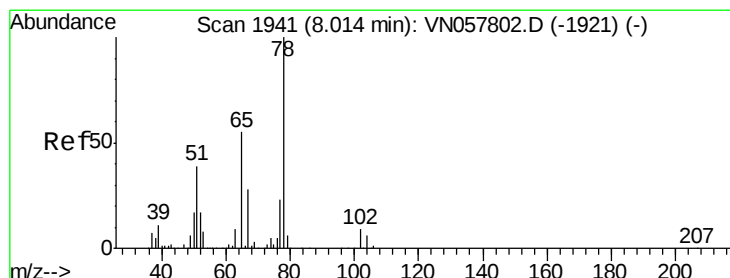
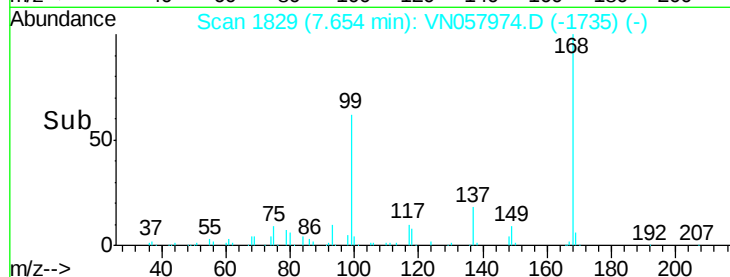
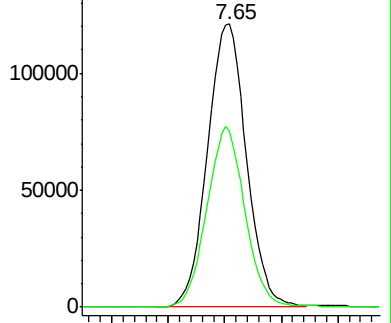
168 100

99 62.4 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#33

1,2-Dichloroethane-d4

Concen: 53.879 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057974.D

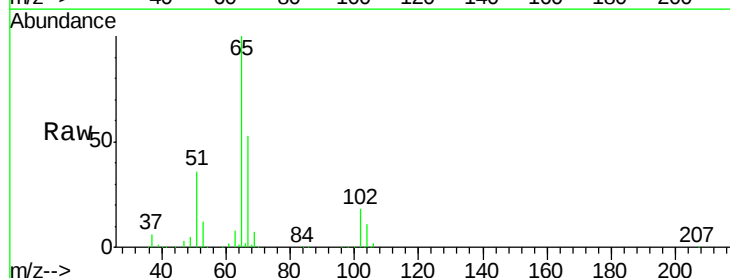
Acq: 12 Sep 2019 17:30

Tgt Ion: 65 Resp: 316474

Ion Ratio Lower Upper

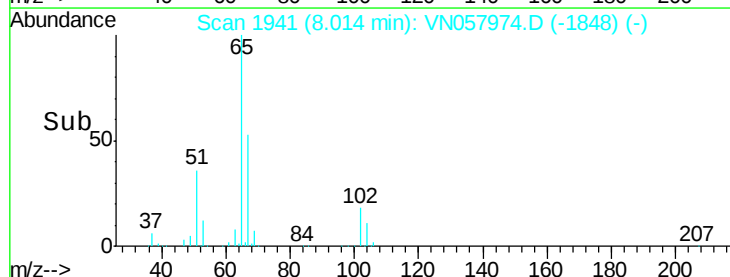
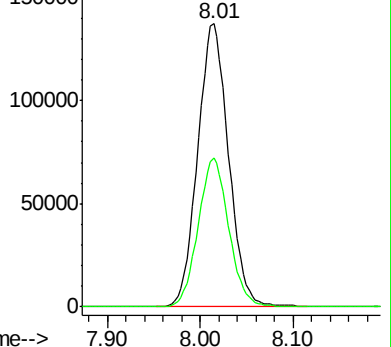
65 100

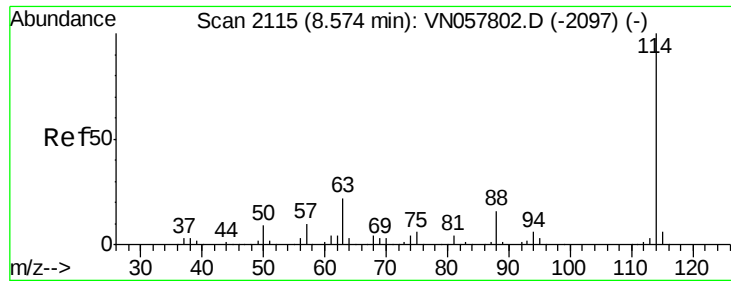
67 52.0 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

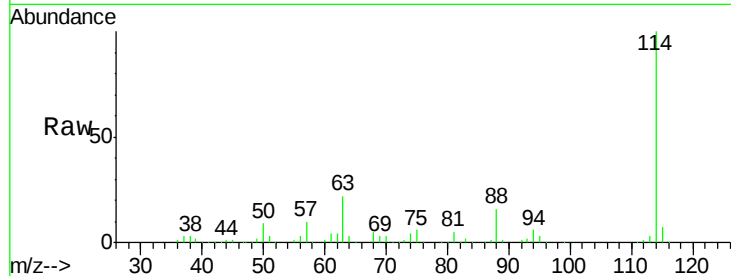




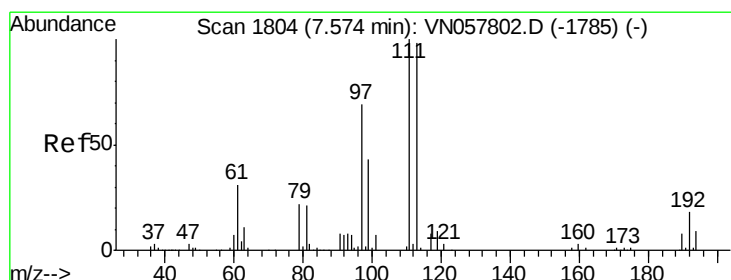
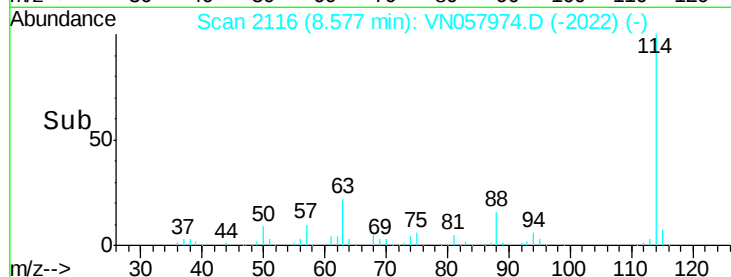
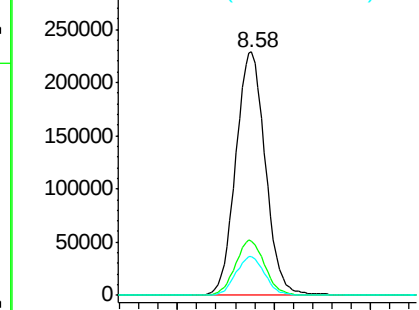
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2116  
 Delta R.T. 0.00 min  
 Lab File: VN057974.D  
 Acq: 12 Sep 2019 17:30

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0913WBL02

Tot Ion:114 Resp: 486678  
 Ion Ratio Lower Upper  
 114 100  
 63 22.3 0.0 44.0  
 88 15.9 0.0 31.4

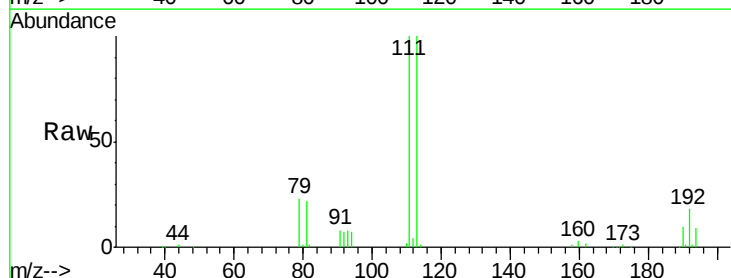


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

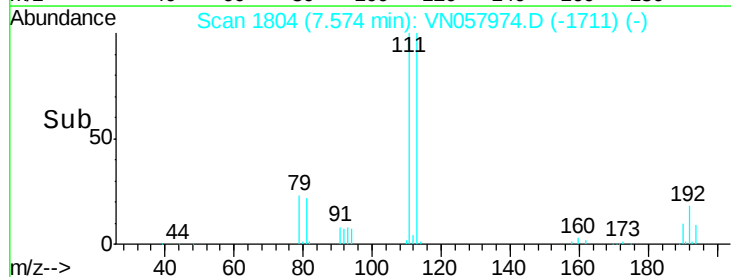
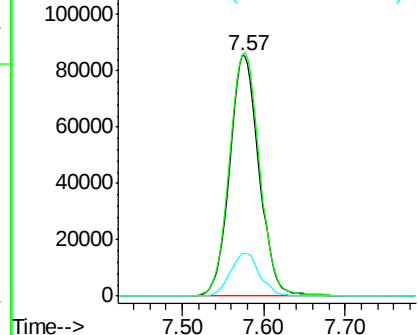


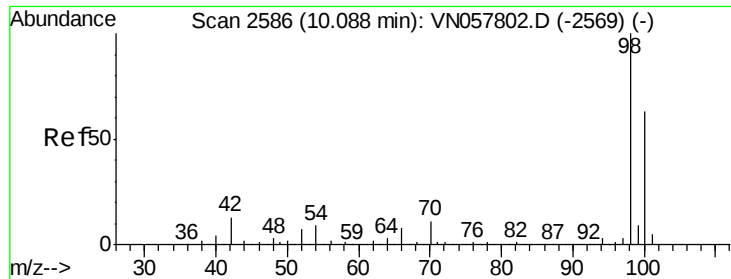
#35  
 Dibromofluoromethane  
 Concen: 48.157 ug/l  
 RT: 7.57 min Scan# 1804  
 Delta R.T. 0.00 min  
 Lab File: VN057974.D  
 Acq: 12 Sep 2019 17:30

Tgt Ion:113 Resp: 216312  
 Ion Ratio Lower Upper  
 113 100  
 111 103.4 81.3 121.9  
 192 17.9 14.6 22.0



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

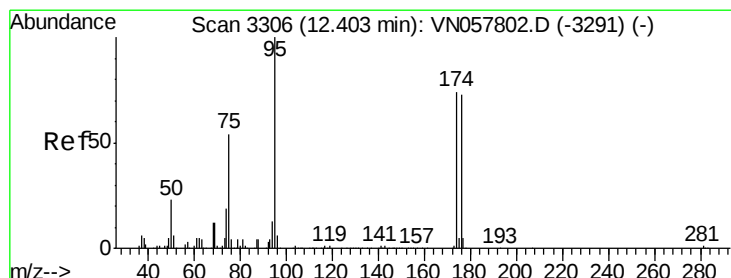
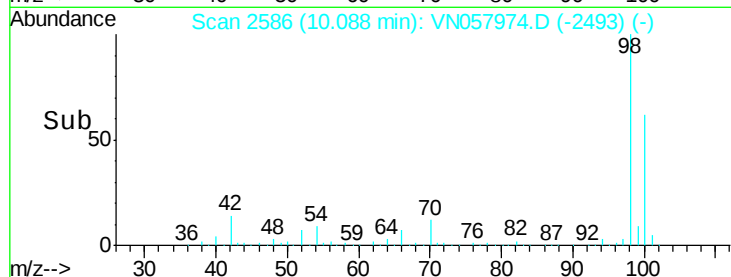
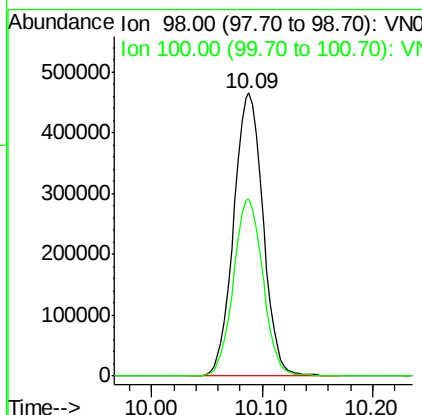
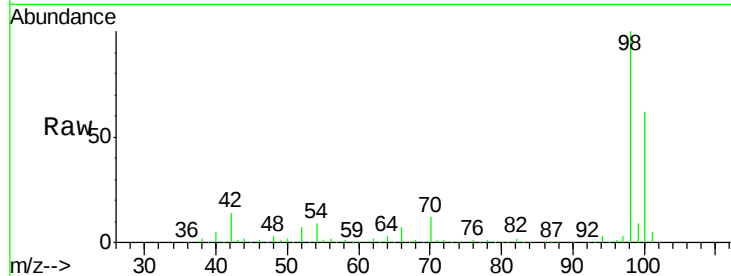




#50  
Toluene-d8  
Concen: 49.277 ug/l  
RT: 10.09 min Scan# 2586  
Delta R.T. 0.00 min  
Lab File: VN057974.D  
Acq: 12 Sep 2019 17:30

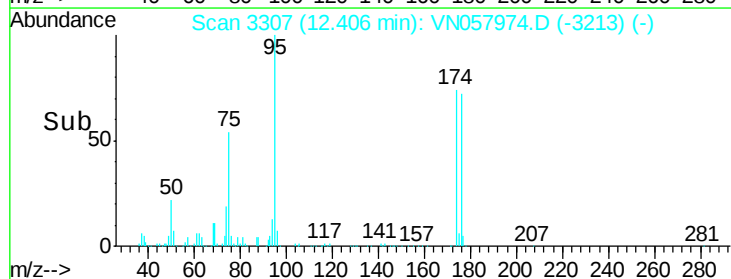
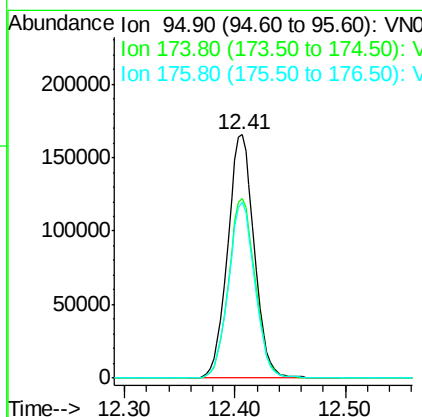
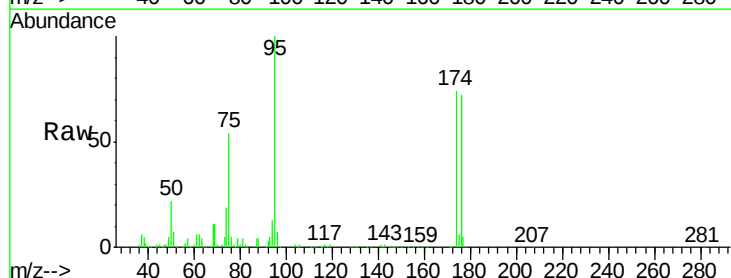
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0913WBL02

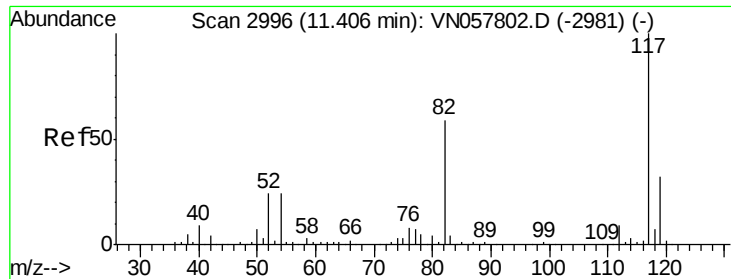
Tot Ion: 98 Resp: 859387  
Ion Ratio Lower Upper  
98 100  
100 63.2 50.3 75.5



#62  
4-Bromofluorobenzene  
Concen: 41.569 ug/l  
RT: 12.41 min Scan# 3307  
Delta R.T. 0.00 min  
Lab File: VN057974.D  
Acq: 12 Sep 2019 17:30

Tgt Ion: 95 Resp: 276274  
Ion Ratio Lower Upper  
95 100  
174 74.1 0.0 150.2  
176 71.8 0.0 146.0

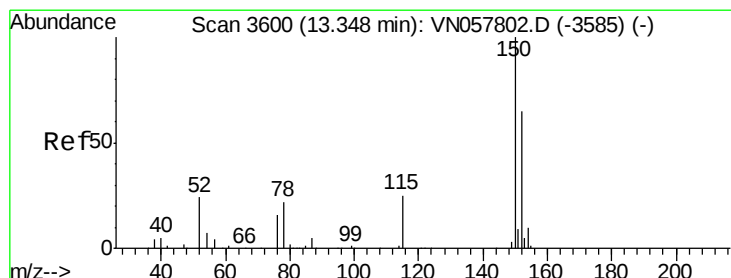
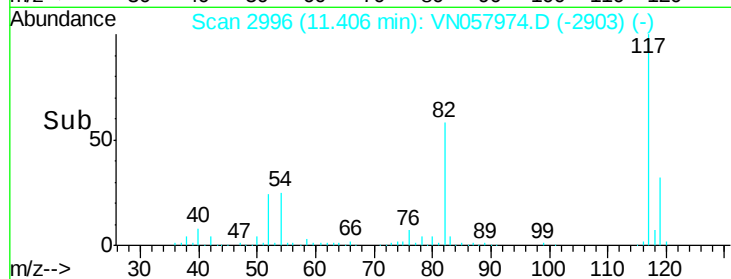
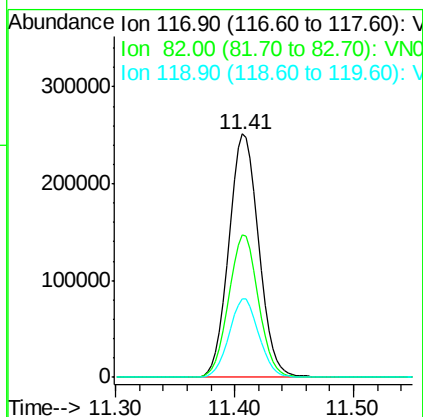
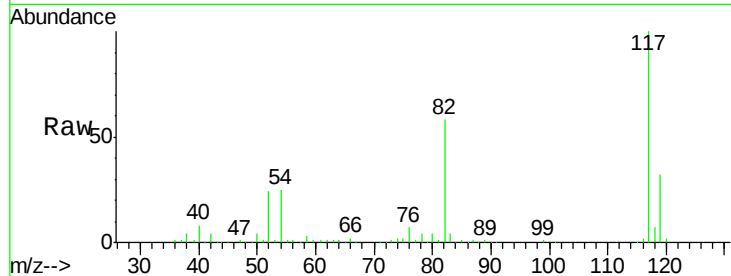




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN057974.D  
Acq: 12 Sep 2019 17:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0913WBL02

Tot Ion:117 Resp: 438694  
Ion Ratio Lower Upper  
117 100  
82 58.4 47.2 70.8  
119 32.1 25.3 37.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3601  
Delta R.T. 0.00 min  
Lab File: VN057974.D  
Acq: 12 Sep 2019 17:30

Tgt Ion:152 Resp: 220056  
Ion Ratio Lower Upper  
152 100  
115 60.9 30.3 91.0  
150 158.8 0.0 352.4

