

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100418\  
 Data File : VN051665.D  
 Acq On : 4 Oct 2018 14:31  
 Operator : MD\SY  
 Sample : VN1004WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1004WBL01

Quant Time: Oct 05 06:51:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N100418W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 05 02:22:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 725236   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1065040  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 907752   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 320055   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 449310   | 46.90 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.80% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 410405   | 49.84 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.68% |      |
| 50) Toluene-d8              | 10.09  | 98  | 1502124  | 48.90 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.80% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 413302   | 38.01 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 76.02% |      |

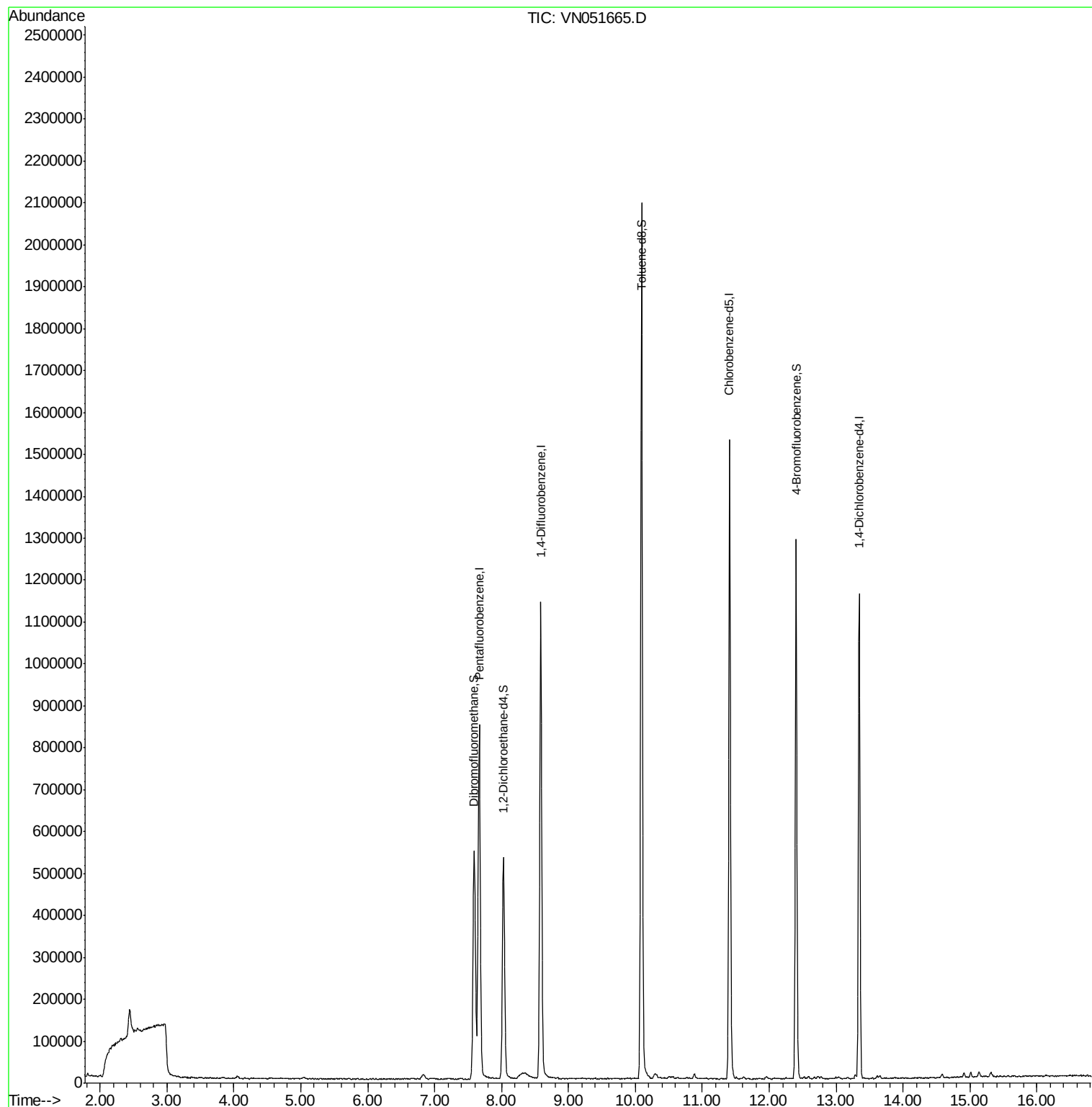
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

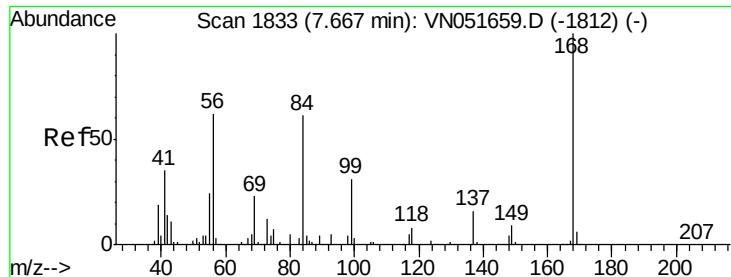
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
ClientSampleId :  
VN1004WBL01

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N100418W.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 05 02:22:33 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051665.D

Acq: 4 Oct 2018 14:31

Instrument :

MSVOA\_N

ClientSampleId :

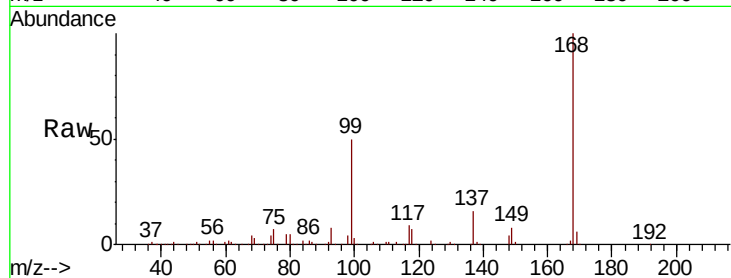
VN1004WBL01

Tot Ion:168 Resp: 725236

Ion Ratio Lower Upper

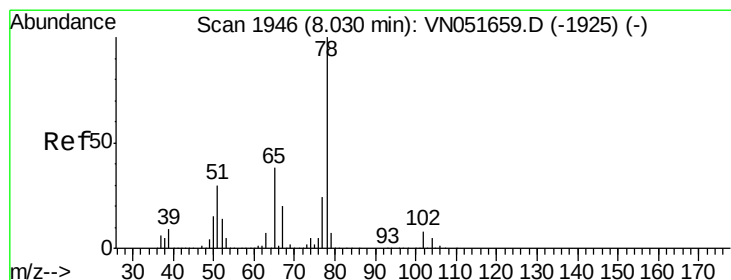
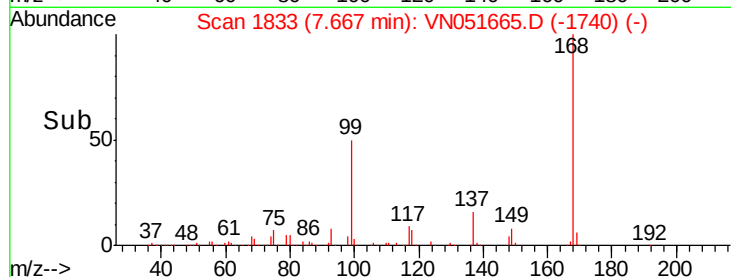
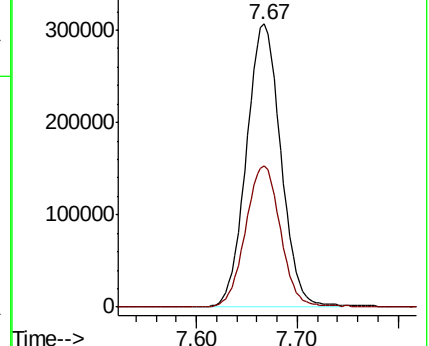
168 100

99 49.9 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051665.D

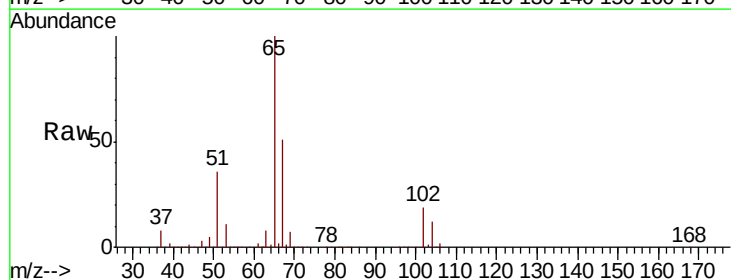
Acq: 4 Oct 2018 14:31

Tgt Ion: 65 Resp: 449310

Ion Ratio Lower Upper

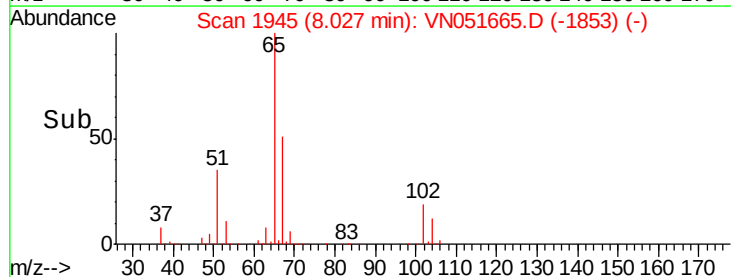
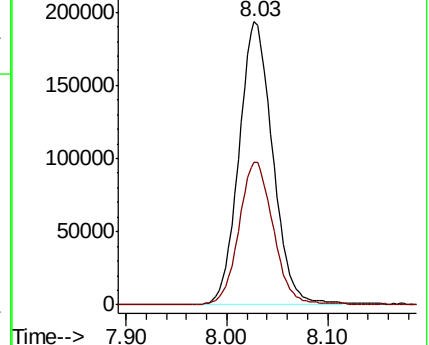
65 100

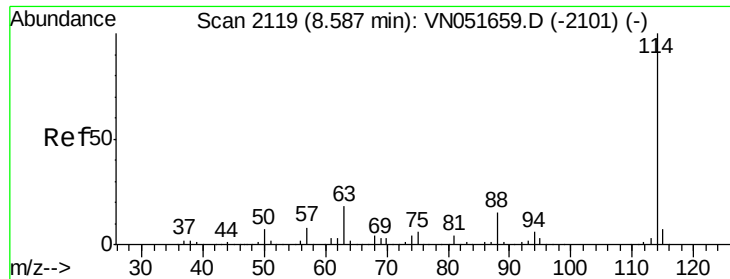
67 51.0 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

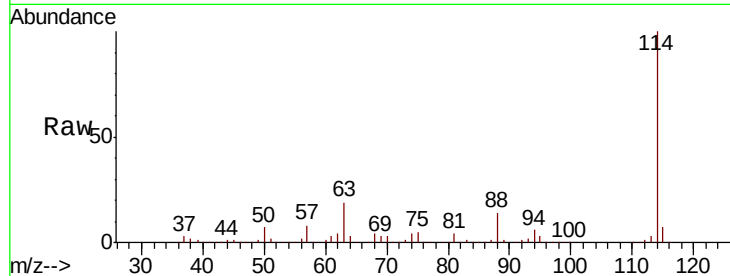




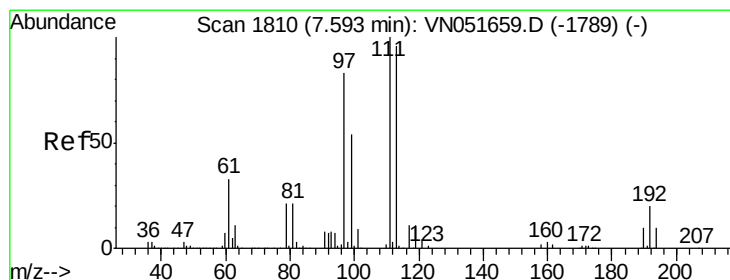
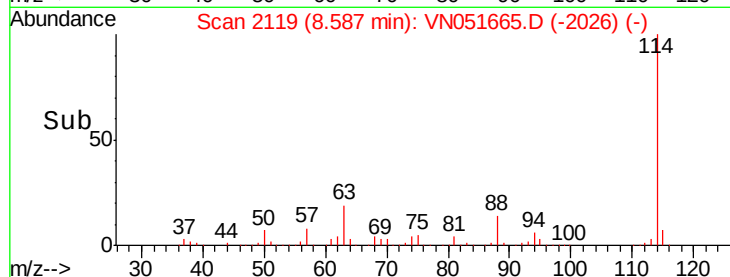
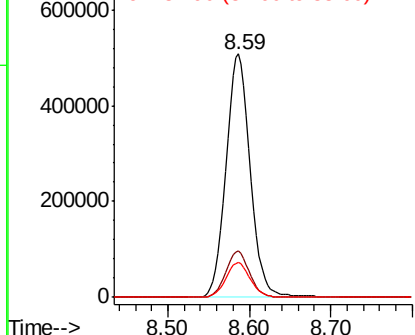
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN051665.D  
 Acq: 4 Oct 2018 14:31

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1004WBL01

Tot Ion:114 Resp: 1065040  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 36.2  
 88 14.2 0.0 30.2

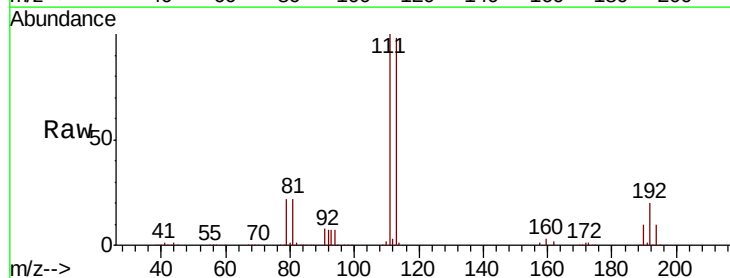


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

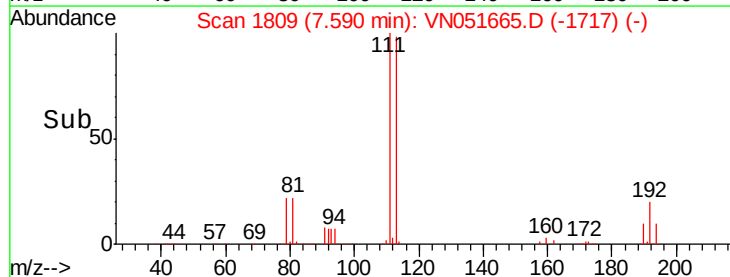
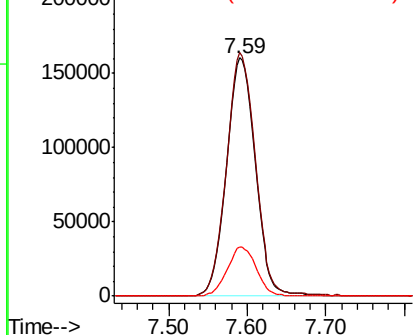


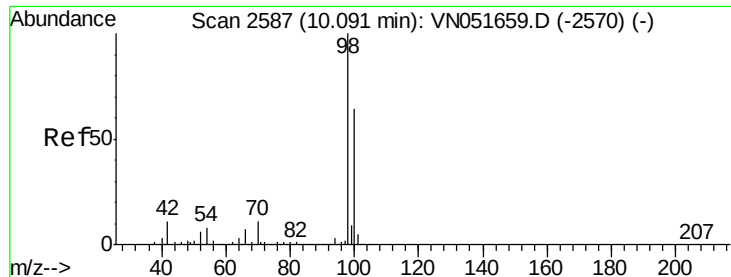
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. -0.00 min  
 Lab File: VN051665.D  
 Acq: 4 Oct 2018 14:31

Tgt Ion:113 Resp: 410405  
 Ion Ratio Lower Upper  
 113 100  
 111 101.9 81.8 122.8  
 192 20.7 16.5 24.7



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: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051665.D

Acq: 4 Oct 2018 14:31

Instrument :

MSVOA\_N

ClientSampleId :

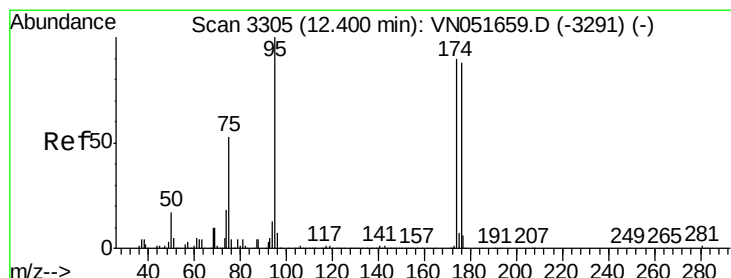
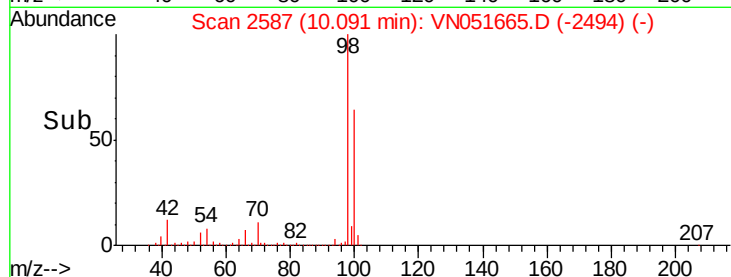
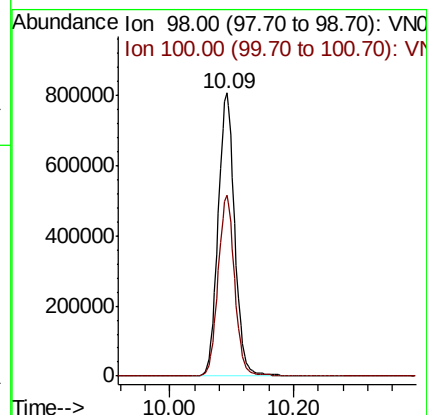
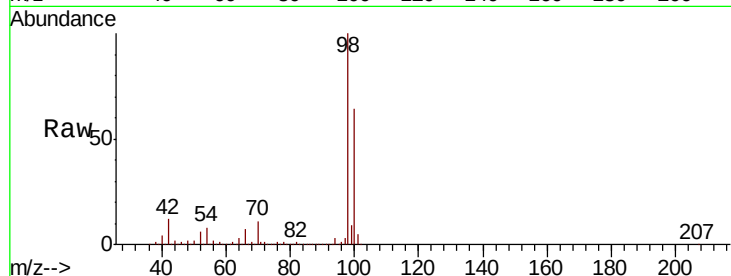
VN1004WBL01

Tot Ion: 98 Resp: 1502124

Ion Ratio Lower Upper

98 100

100 63.6 51.5 77.3



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051665.D

Acq: 4 Oct 2018 14:31

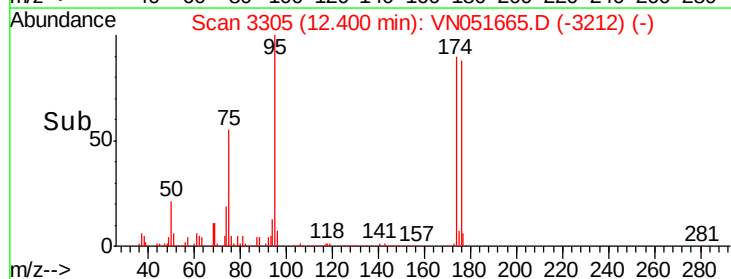
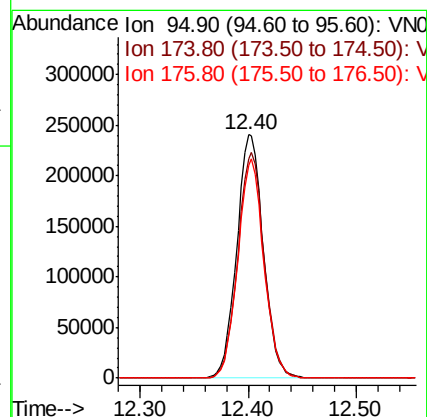
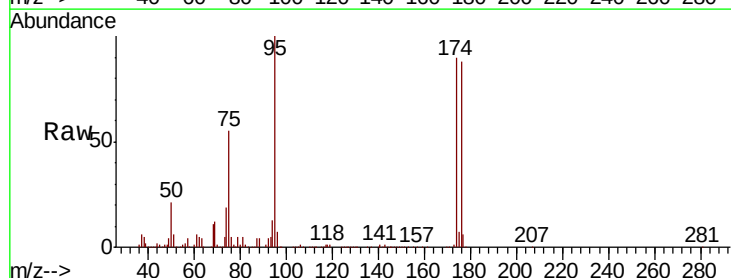
Tgt Ion: 95 Resp: 413302

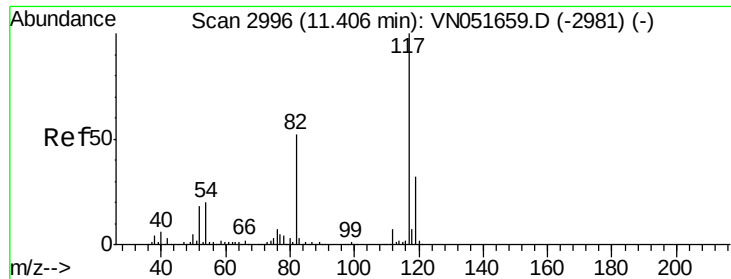
Ion Ratio Lower Upper

95 100

174 92.2 0.0 182.8

176 88.4 0.0 176.4

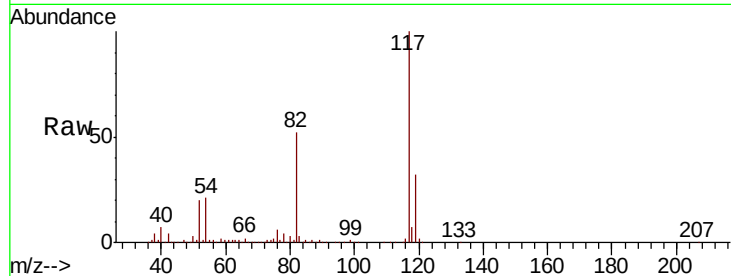




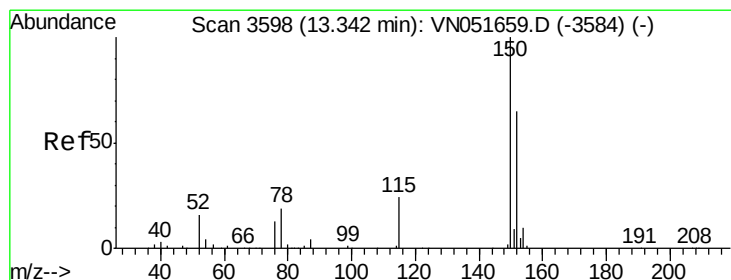
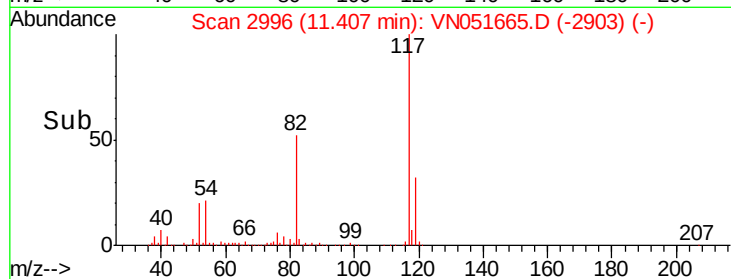
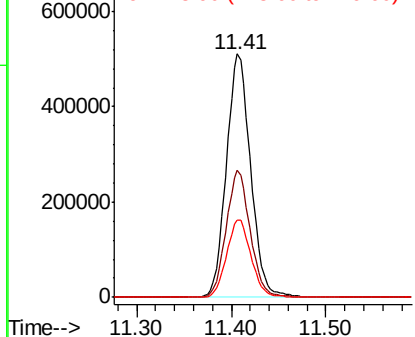
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN051665.D  
Acq: 4 Oct 2018 14:31

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1004WBL01

Tot Ion:117 Resp: 907752  
Ion Ratio Lower Upper  
117 100  
82 52.0 41.3 61.9  
119 31.9 25.9 38.9

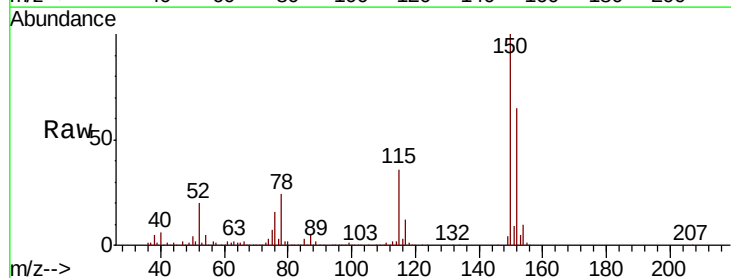


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN051665.D  
Acq: 4 Oct 2018 14:31

Tgt Ion:152 Resp: 320055  
Ion Ratio Lower Upper  
152 100  
115 56.1 28.6 85.8  
150 155.5 0.0 352.4



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

