

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020620\  
 Data File : VN060007.D  
 Acq On : 6 Feb 2020 10:35  
 Operator : JC/MD  
 Sample : VN0206WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0206WBL01

Quant Time: Feb 06 17:08:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011320W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jan 18 03:09:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 187379   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 291353   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 257642   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 101782   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.00   | 65  | 107502   | 51.66 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.32% |      |
| 35) Dibromofluoromethane    | 7.56   | 113 | 88474    | 50.92 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.84% |      |
| 50) Toluene-d8              | 10.08  | 98  | 345149   | 51.27 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.54% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 114187   | 47.05 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.10%  |      |

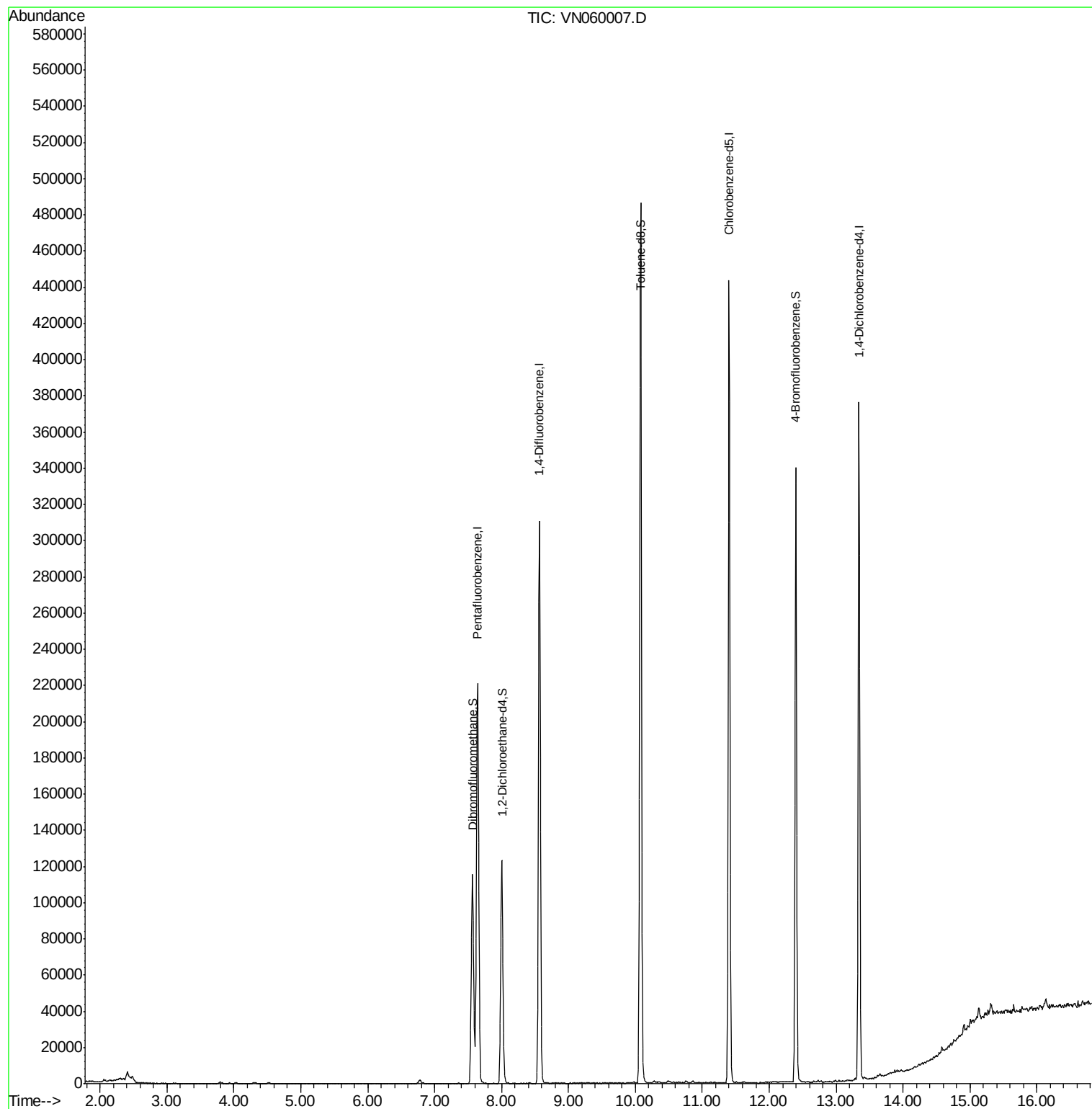
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

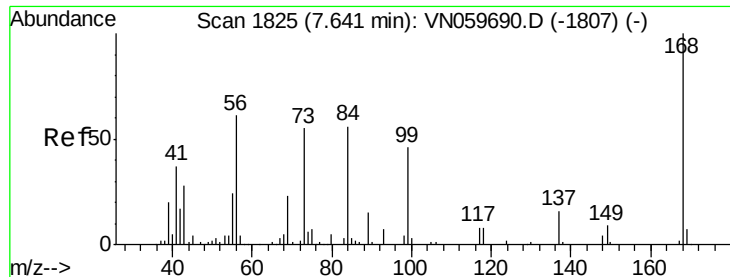
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN020620\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N011320W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jan 18 03:09:32 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

Instrument :

MSVOA\_N

ClientSampleId :

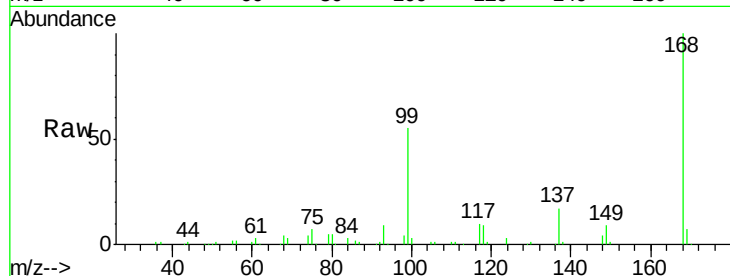
VN0206WBL01

Tot Ion:168 Resp: 187379

Ion Ratio Lower Upper

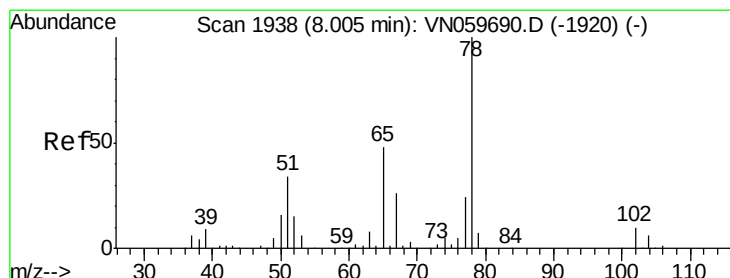
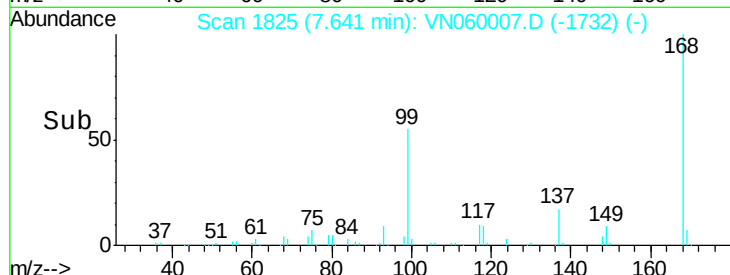
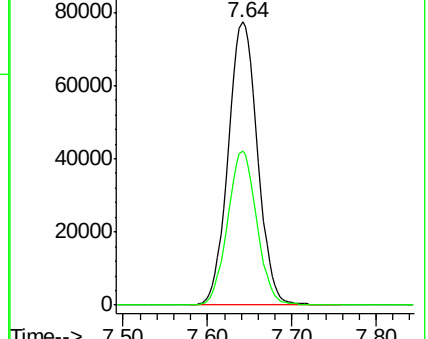
168 100

99 54.7 48.2 72.4



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: 51.662 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060007.D

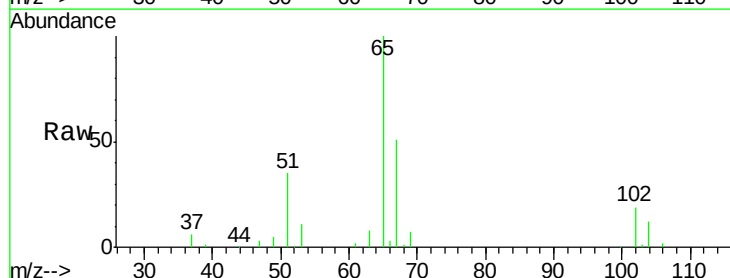
Acq: 6 Feb 2020 10:35

Tgt Ion: 65 Resp: 107502

Ion Ratio Lower Upper

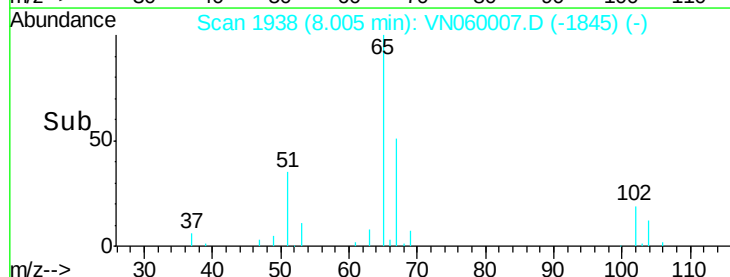
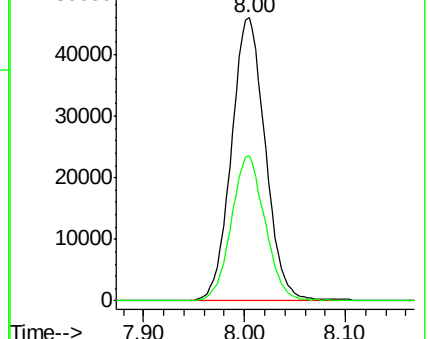
65 100

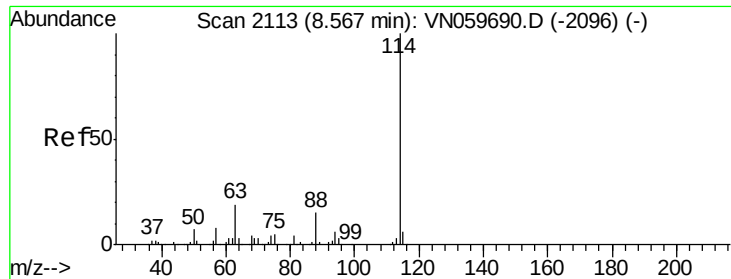
67 51.0 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

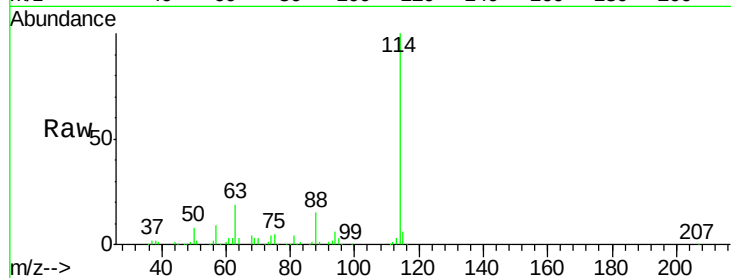




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. 0.00 min  
 Lab File: VN060007.D  
 Acq: 6 Feb 2020 10:35

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0206WBL01

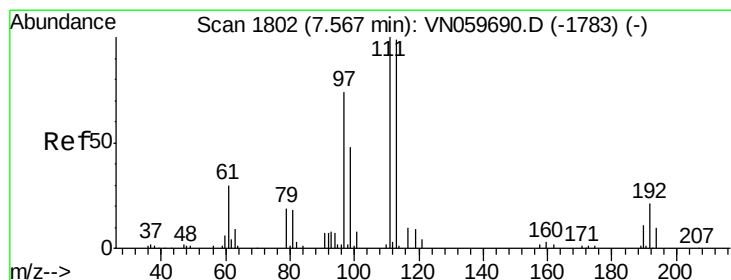
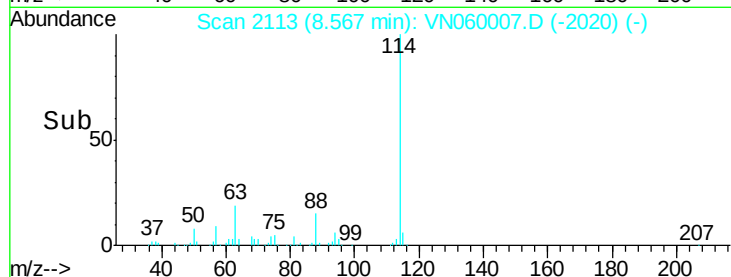
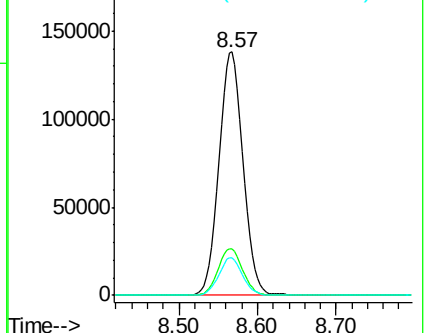
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.3  | 0.0   | 43.6  |
| 88      | 15.4  | 0.0   | 31.4  |



Abundance Ion 113.90 (113.60 to 114.60): V

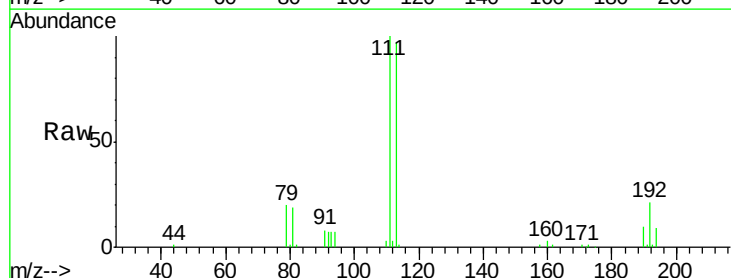
Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35  
 Dibromofluoromethane  
 Concen: 50.921 ug/l  
 RT: 7.56 min Scan# 1801  
 Delta R.T. -0.00 min  
 Lab File: VN060007.D  
 Acq: 6 Feb 2020 10:35

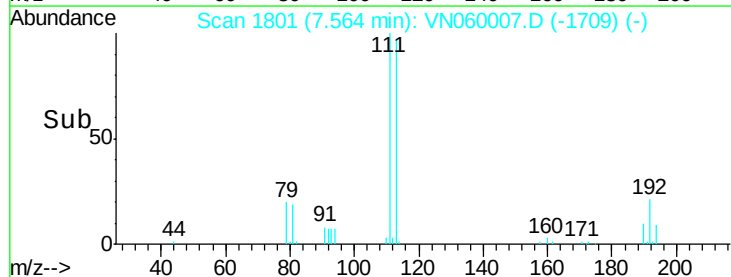
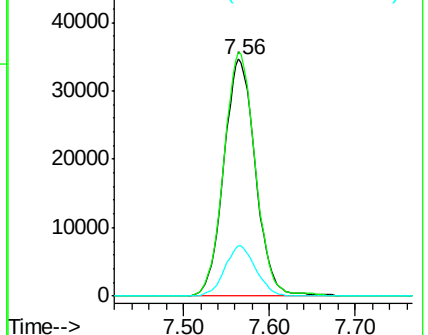
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.4 | 83.5  | 125.3 |
| 192     | 20.7  | 15.4  | 23.2  |

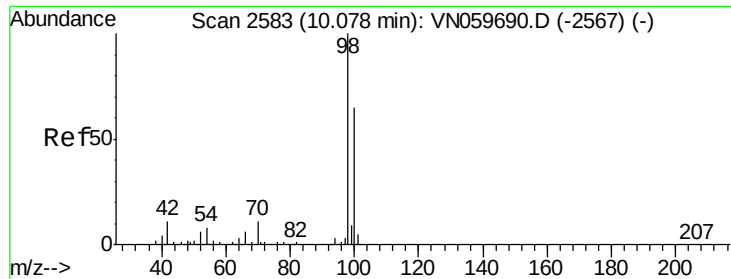


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 51.271 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

Instrument :

MSVOA\_N

ClientSampleId :

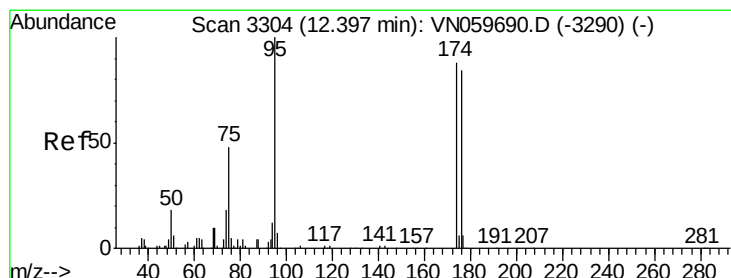
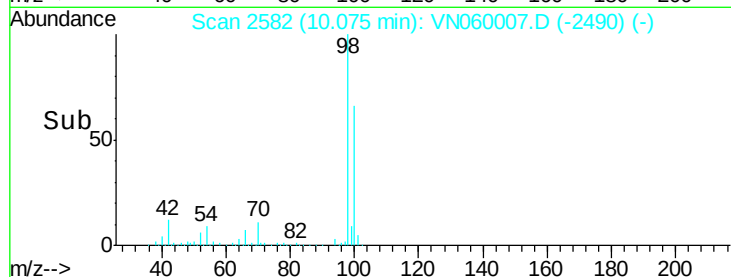
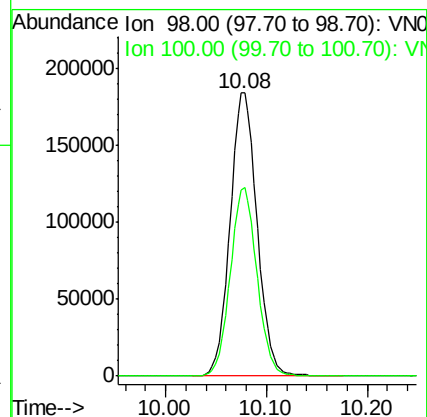
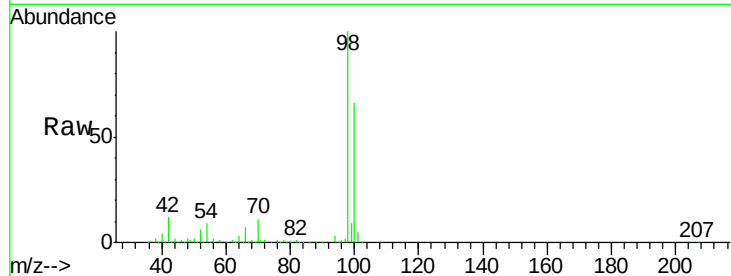
VN0206WBL01

Tot Ion: 98 Resp: 345149

Ion Ratio Lower Upper

98 100

100 65.6 51.2 76.8



#62

4-Bromofluorobenzene

Concen: 47.052 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

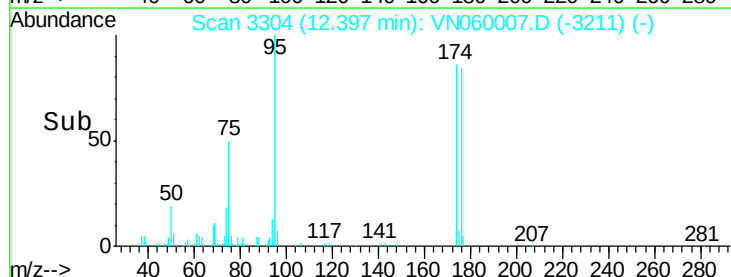
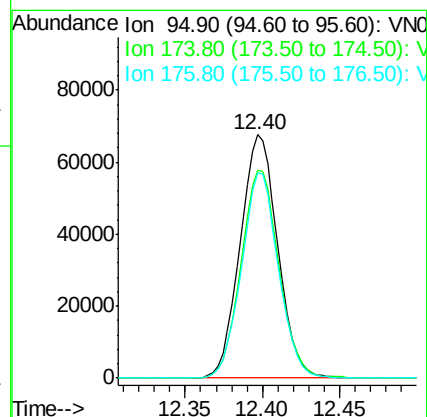
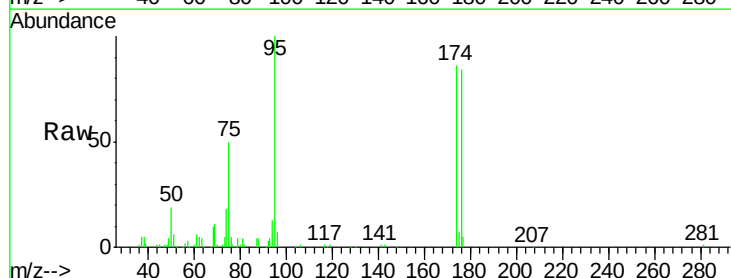
Tgt Ion: 95 Resp: 114187

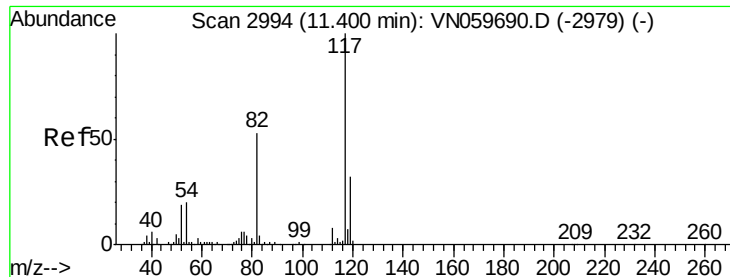
Ion Ratio Lower Upper

95 100

174 86.4 0.0 151.4

176 83.0 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

Instrument :

MSVOA\_N

ClientSampleId :

VN0206WBL01

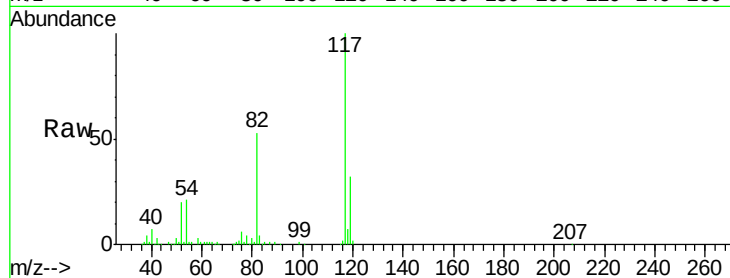
Tot Ion:117 Resp: 257642

Ion Ratio Lower Upper

117 100

82 52.7 45.9 68.9

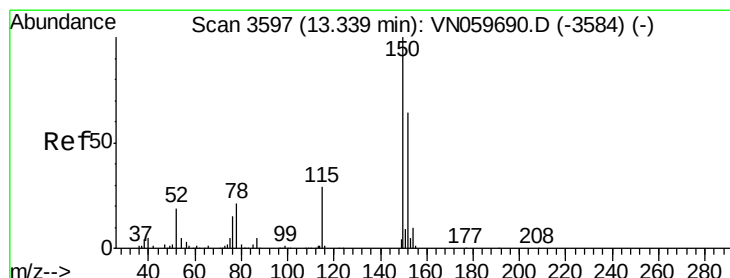
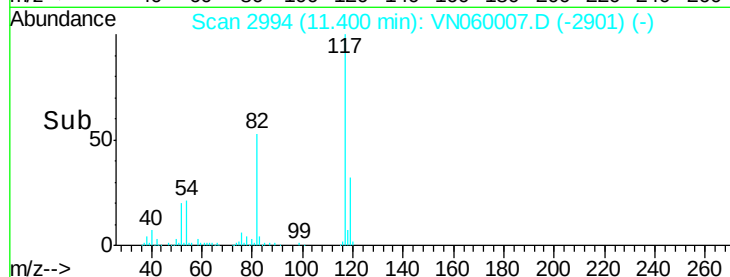
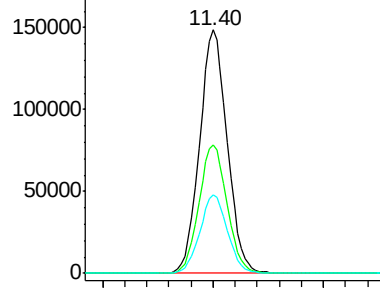
119 32.4 25.5 38.3



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

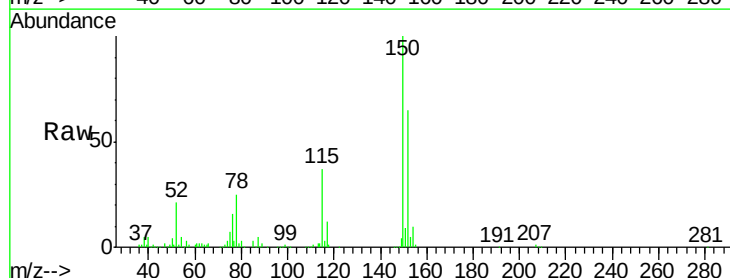
Tgt Ion:152 Resp: 101782

Ion Ratio Lower Upper

152 100

115 59.0 30.3 90.9

150 158.2 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

