

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN121619\  
 Data File : VN059597.D  
 Acq On : 16 Dec 2019 12:39  
 Operator : JC/SP  
 Sample : VN1216MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1216MBL01

Quant Time: Dec 17 05:32:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 13 23:17:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 246088   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 387363   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 331210   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 115566   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 8.00   | 65  | 168288   | 47.00 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.00% |      |
| 35) Dibromofluoromethane    | 7.56   | 113 | 118604   | 48.94 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.88% |      |
| 50) Toluene-d8              | 10.08  | 98  | 474434   | 49.44 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.88% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 145364   | 41.52 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 83.04% |      |

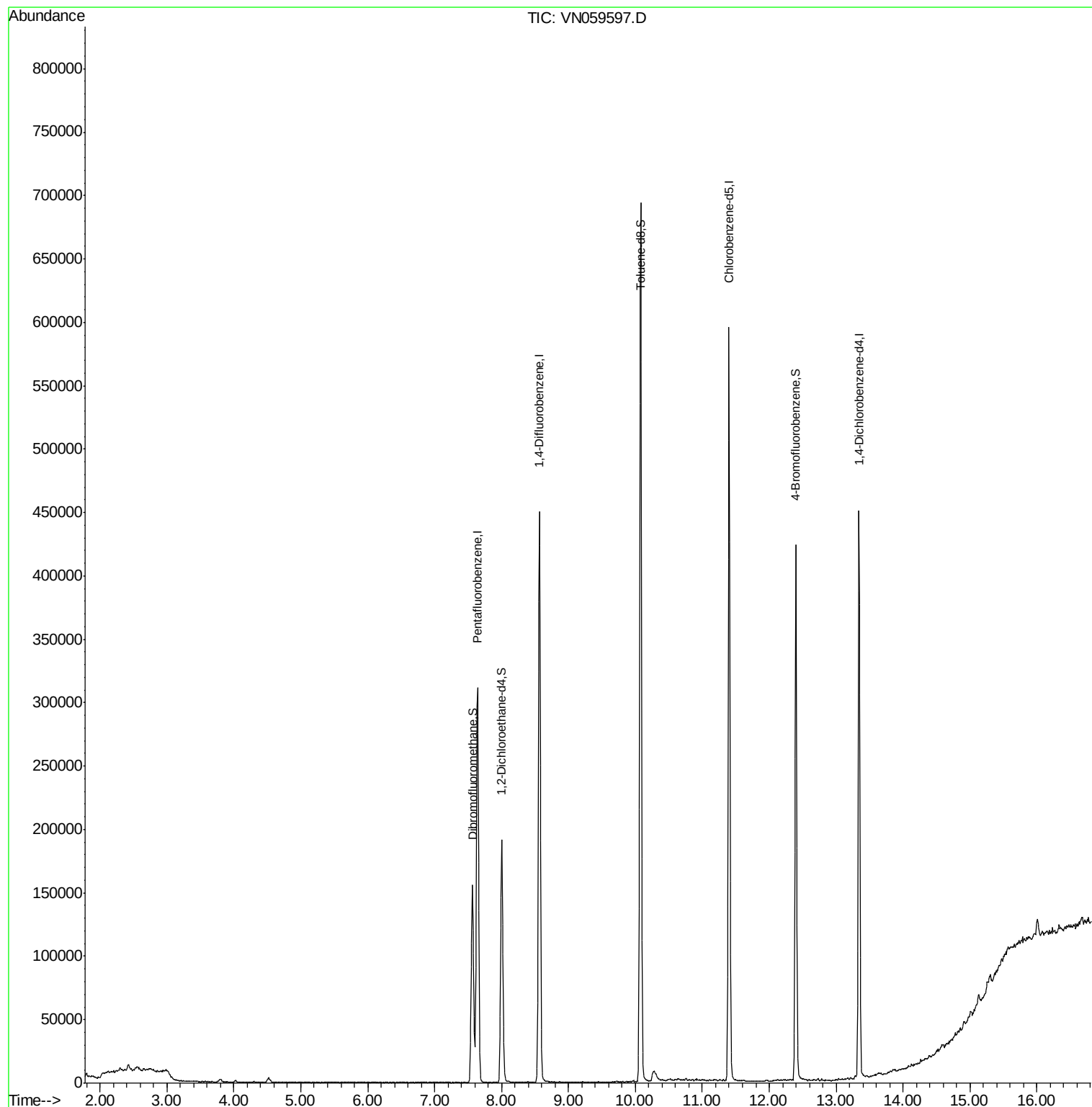
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

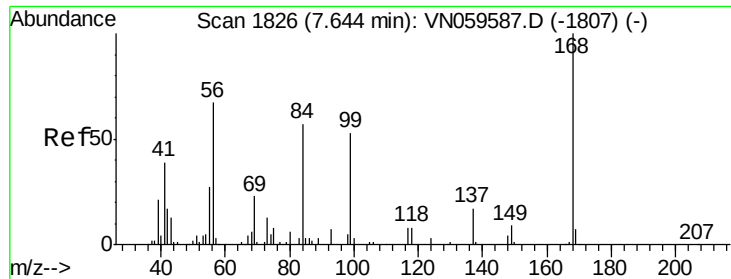
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
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VN1216MBL01

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N121319W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 13 23:17:39 2019  
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: VN059597.D

Acq: 16 Dec 2019 12:39

Instrument :

MSVOA\_N

ClientSampleId :

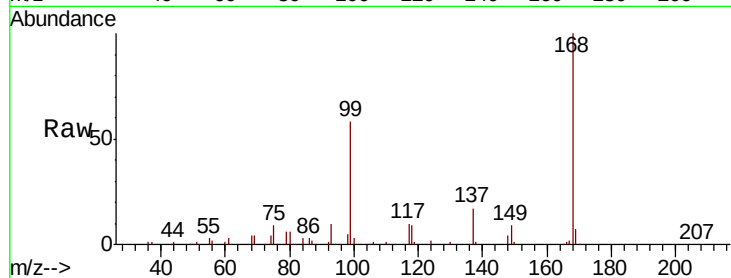
VN1216MBL01

Tot Ion:168 Resp: 246088

Ion Ratio Lower Upper

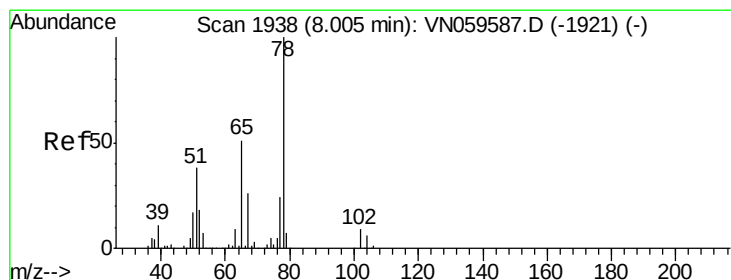
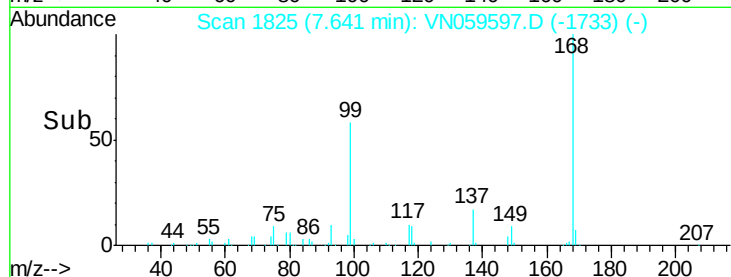
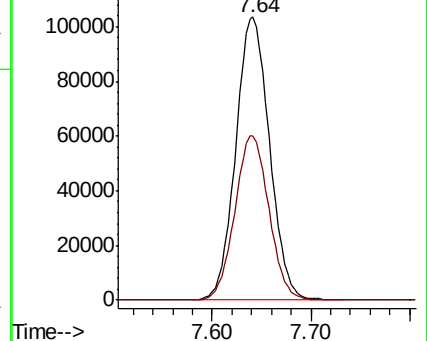
168 100

99 58.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#33

1,2-Dichloroethane-d4

Concen: 46.995 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN059597.D

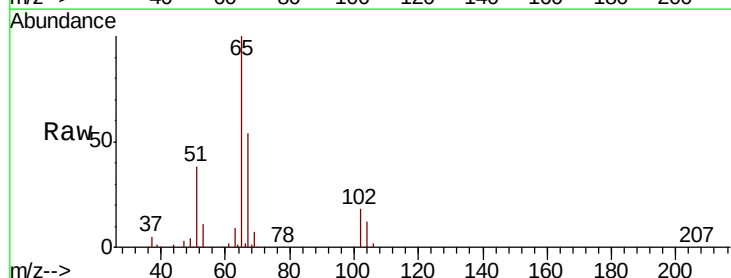
Acq: 16 Dec 2019 12:39

Tgt Ion: 65 Resp: 168288

Ion Ratio Lower Upper

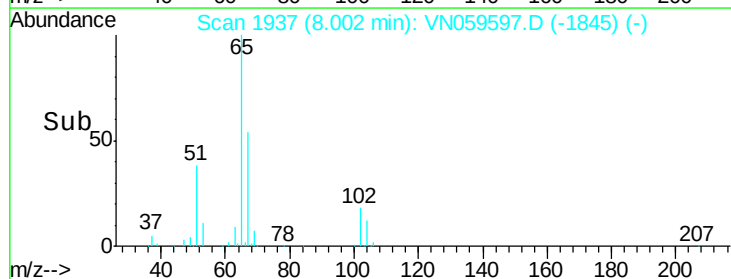
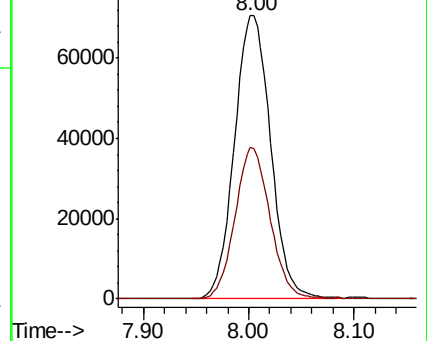
65 100

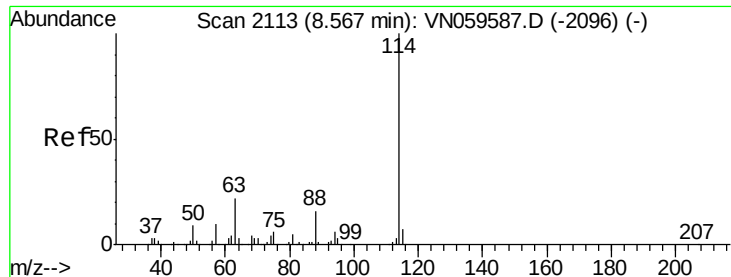
67 51.6 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN

Ion 66.90 (66.60 to 67.60): VN

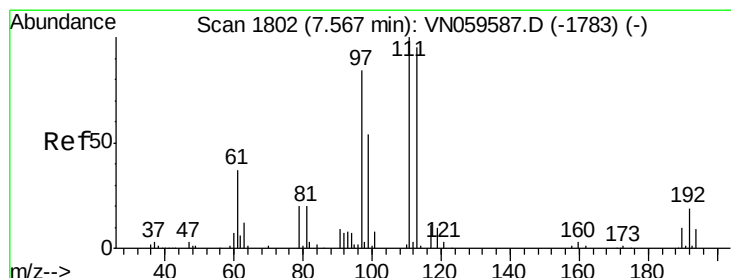
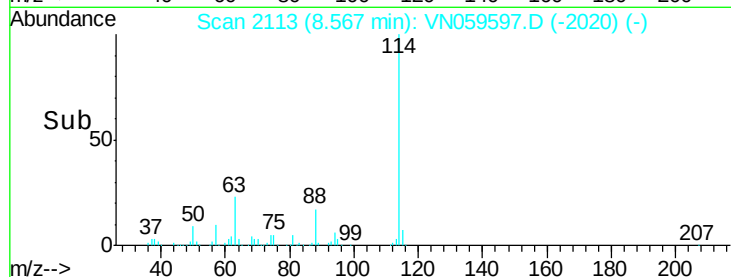
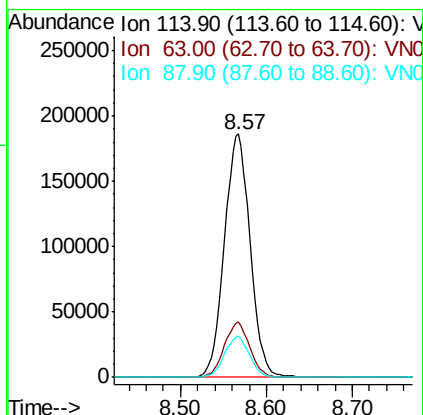
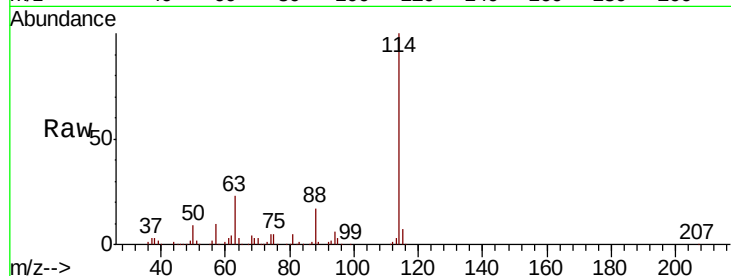




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. 0.00 min  
 Lab File: VN059597.D  
 Acq: 16 Dec 2019 12:39

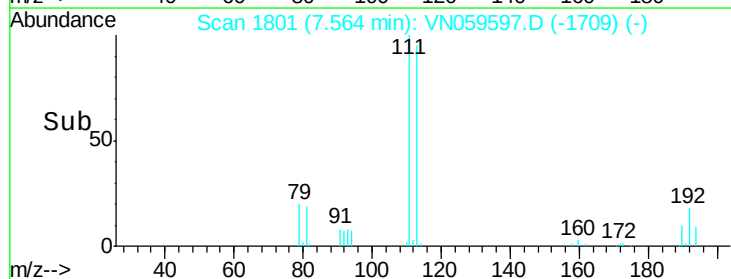
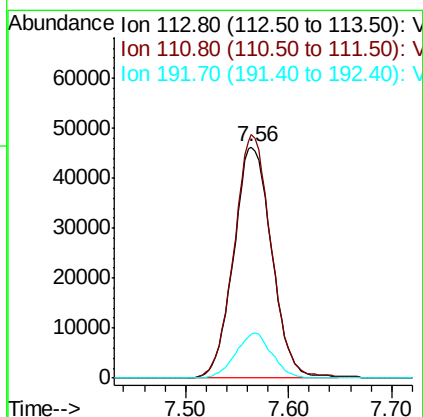
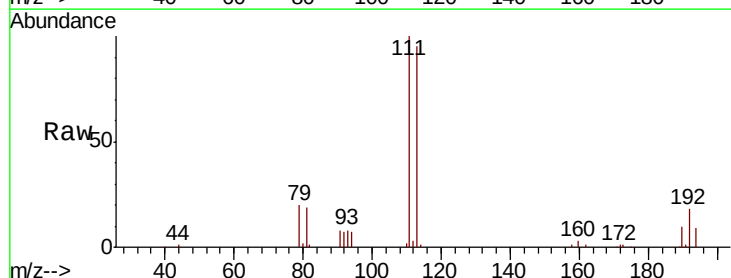
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1216MBL01

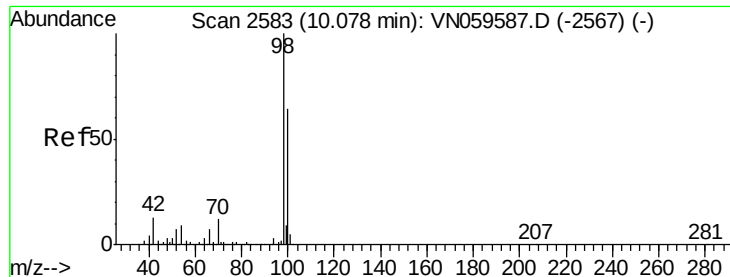
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.6  | 0.0   | 43.6  |
| 88      | 16.8  | 0.0   | 31.4  |



#35  
 Dibromofluoromethane  
 Concen: 48.935 ug/l  
 RT: 7.56 min Scan# 1801  
 Delta R.T. -0.00 min  
 Lab File: VN059597.D  
 Acq: 16 Dec 2019 12:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.4 | 83.5  | 125.3 |
| 192     | 18.4  | 15.4  | 23.2  |

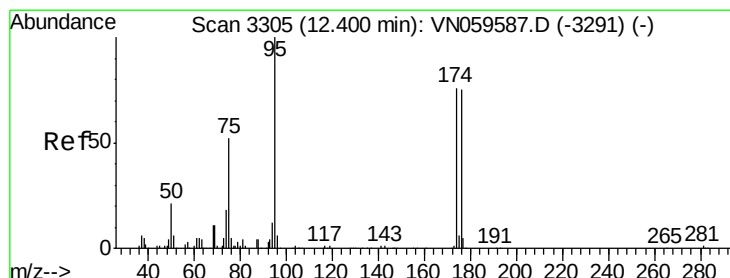
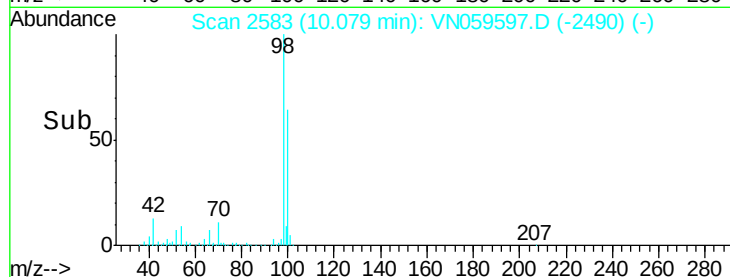
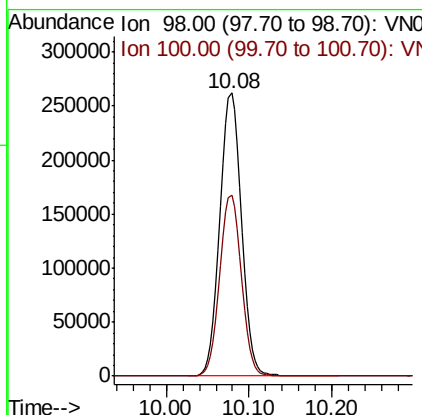
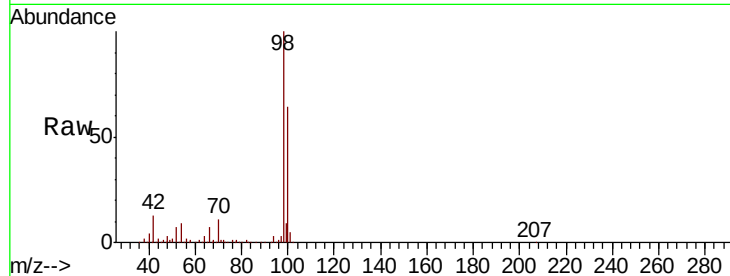




#50  
Toluene-d8  
Concen: 49.442 ug/l  
RT: 10.08 min Scan# 2583  
Delta R.T. 0.00 min  
Lab File: VN059597.D  
Acq: 16 Dec 2019 12:39

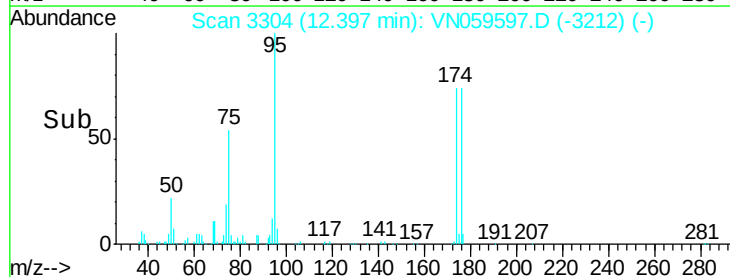
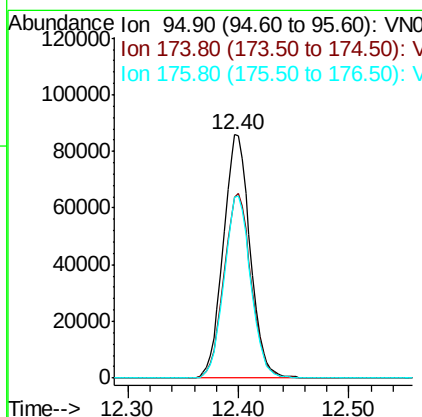
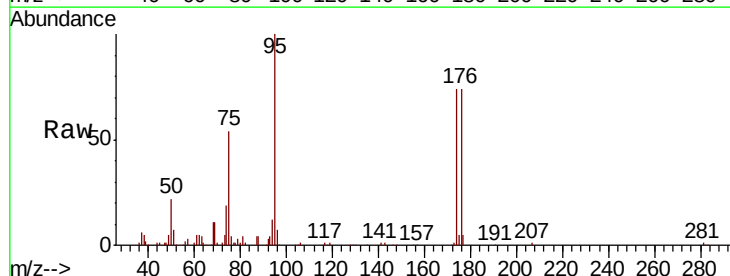
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1216MBL01

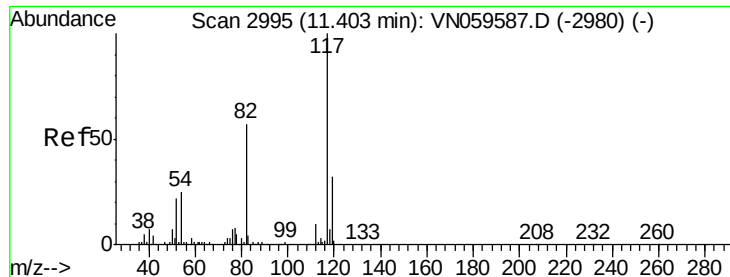
Tot Ion: 98 Resp: 474434  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.2 76.8



#62  
4-Bromofluorobenzene  
Concen: 41.516 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. -0.00 min  
Lab File: VN059597.D  
Acq: 16 Dec 2019 12:39

Tgt Ion: 95 Resp: 145364  
Ion Ratio Lower Upper  
95 100  
174 76.5 0.0 151.4  
176 74.2 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: VN059597.D

Acq: 16 Dec 2019 12:39

Instrument :

MSVOA\_N

ClientSampled :

VN1216MBL01

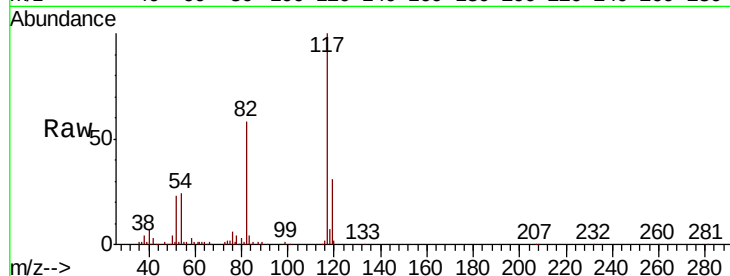
Tot Ion:117 Resp: 331210

Ion Ratio Lower Upper

117 100

82 57.7 45.9 68.9

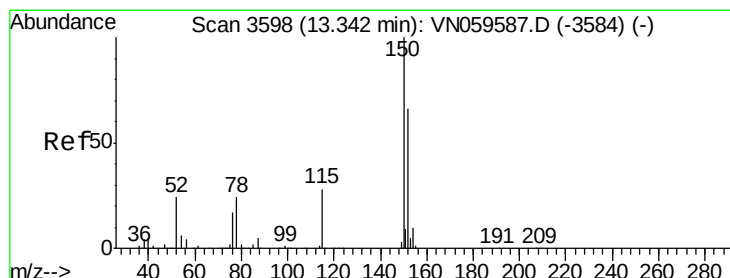
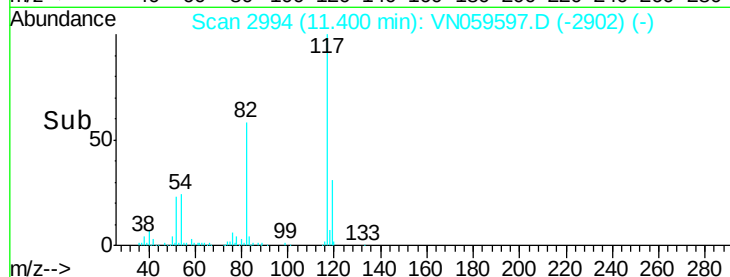
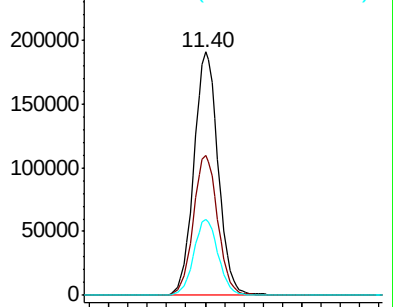
119 31.3 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

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: VN059597.D

Acq: 16 Dec 2019 12:39

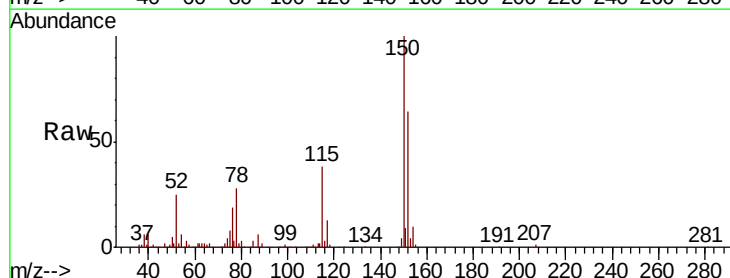
Tgt Ion:152 Resp: 115566

Ion Ratio Lower Upper

152 100

115 61.1 30.3 90.9

150 157.8 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

