

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021919\  
 Data File : VN053857.D  
 Acq On : 19 Feb 2019 9:38  
 Operator : JC/SP  
 Sample : VN0219WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0219WBL01

Quant Time: Feb 20 03:27:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N013019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 01 09:11:52 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 601260   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1000538  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 935814   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 365534   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 313305   | 51.94 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.88% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 317802   | 50.27 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.54% |      |
| 50) Toluene-d8              | 10.09  | 98  | 1214724  | 51.17 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.34% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 398750   | 50.37 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.74% |      |

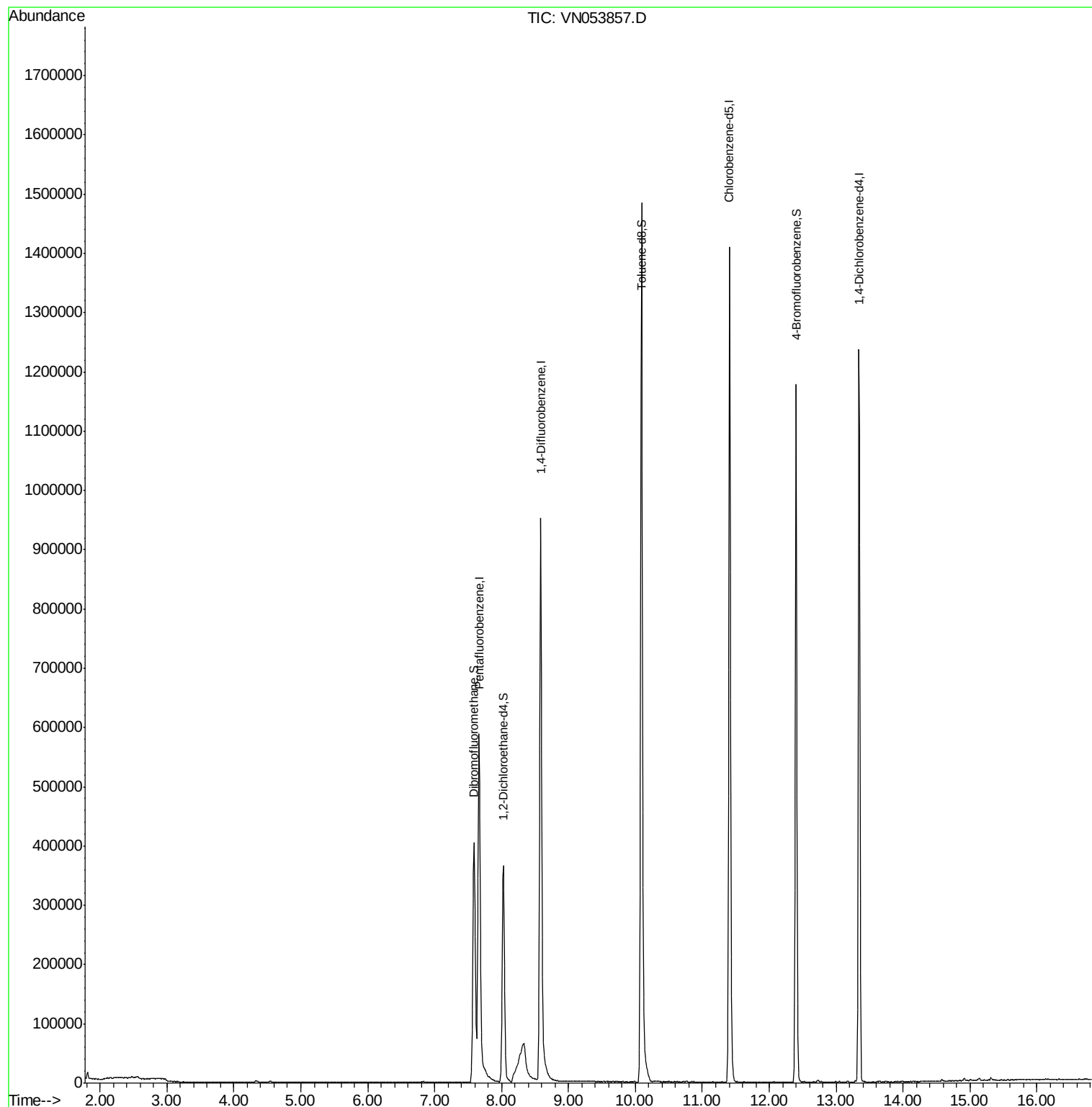
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

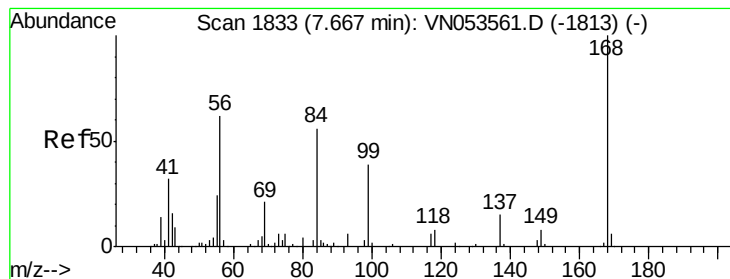
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN021919\  
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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0219WBL01

Quant Time: Feb 20 03:27:36 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N013019W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 01 09:11:52 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053857.D

Acq: 19 Feb 2019 9:38

Instrument :

MSVOA\_N

ClientSampled :

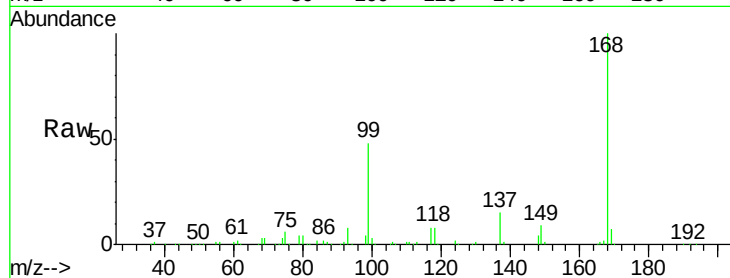
VN0219WBL01

Tot Ion:168 Resp: 601260

Ion Ratio Lower Upper

168 100

99 47.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

250000

200000

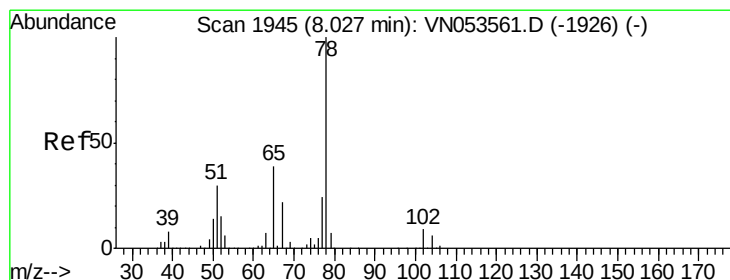
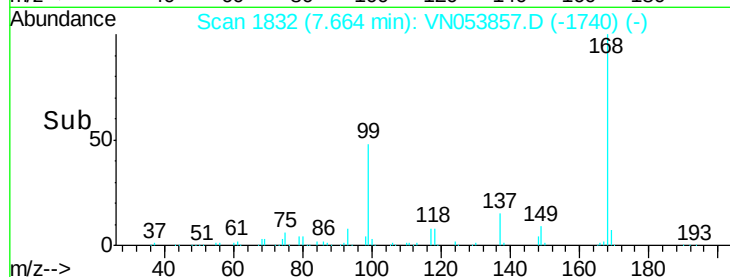
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.942 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053857.D

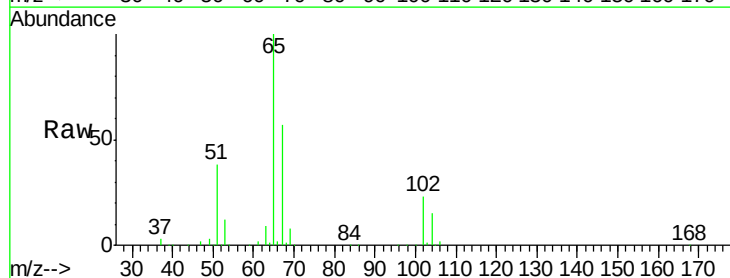
Acq: 19 Feb 2019 9:38

Tgt Ion: 65 Resp: 313305

Ion Ratio Lower Upper

65 100

67 55.7 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN

Ion 66.90 (66.60 to 67.60): VN

8.03

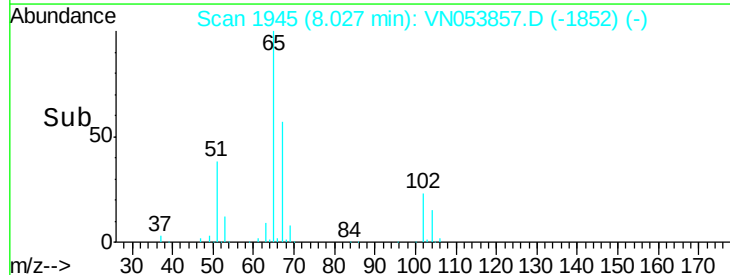
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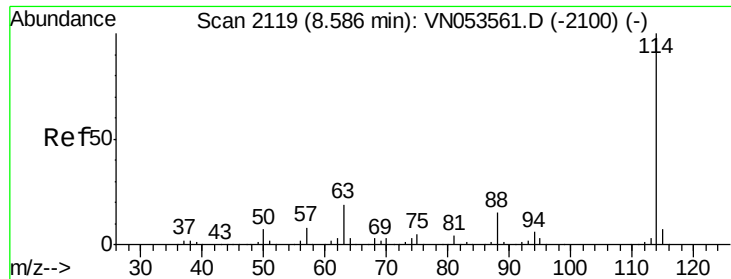
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Time-->

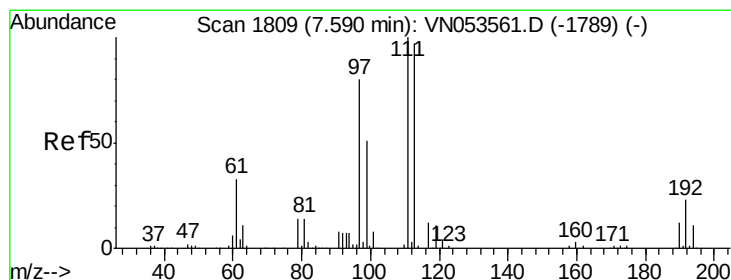
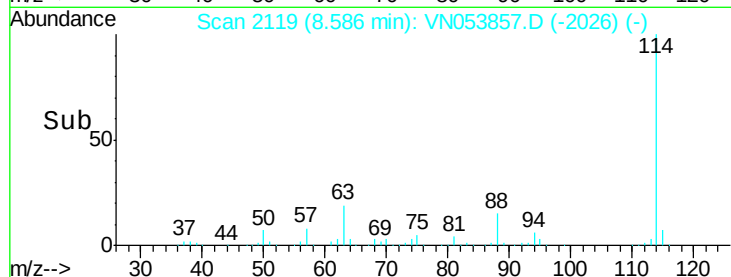
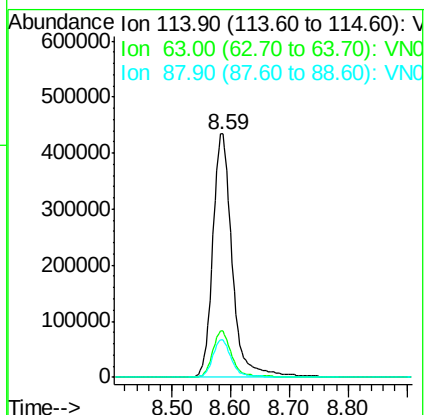
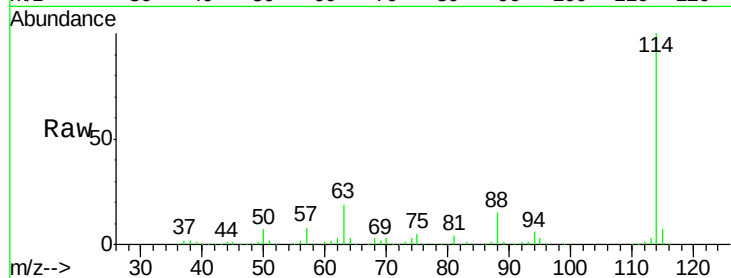




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN053857.D  
 Acq: 19 Feb 2019 9:38

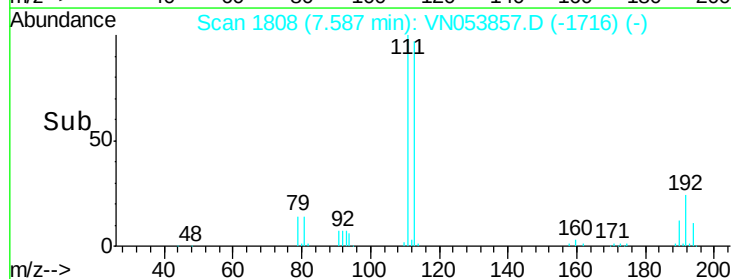
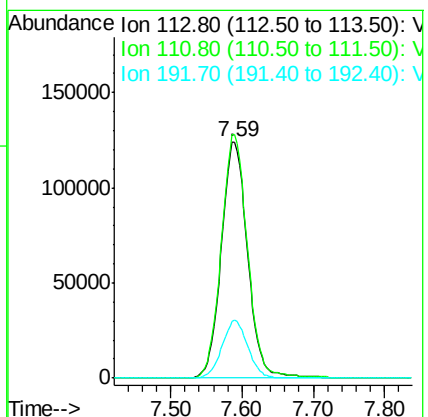
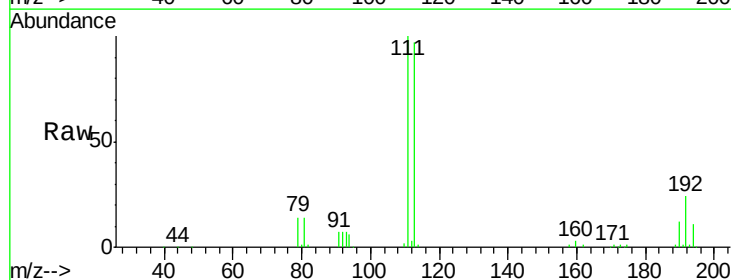
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0219WBL01

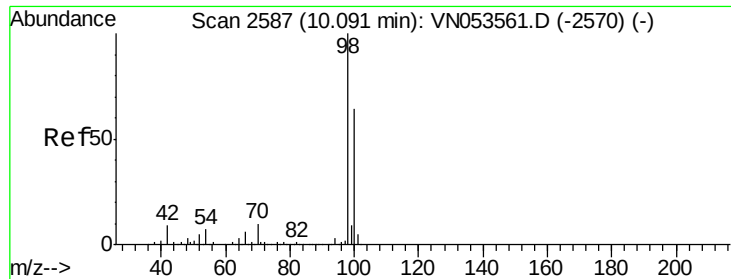
Tot Ion:114 Resp: 1000538  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 38.6  
 88 15.2 0.0 30.4



#35  
 Dibromofluoromethane  
 Concen: 50.268 ug/l  
 RT: 7.59 min Scan# 1808  
 Delta R.T. -0.00 min  
 Lab File: VN053857.D  
 Acq: 19 Feb 2019 9:38

Tgt Ion:113 Resp: 317802  
 Ion Ratio Lower Upper  
 113 100  
 111 102.9 81.1 121.7  
 192 24.0 18.2 27.2

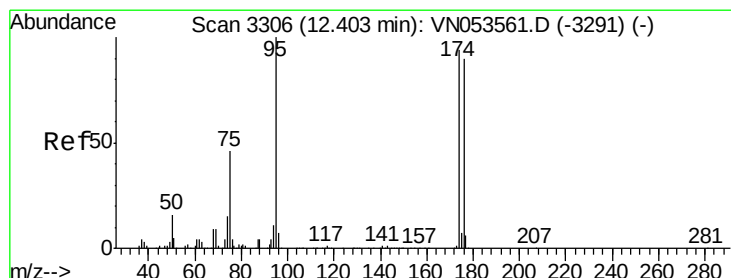
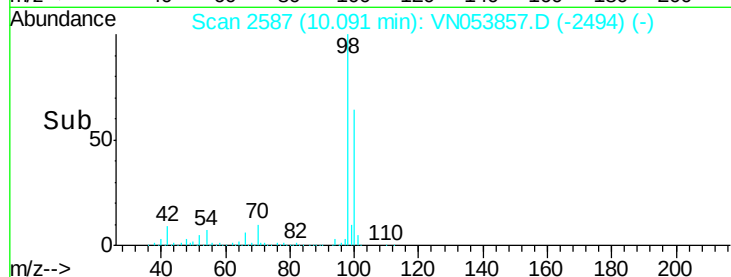
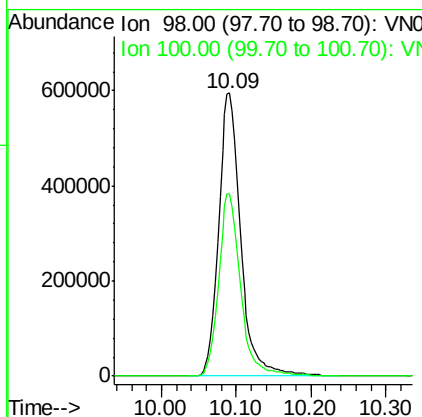
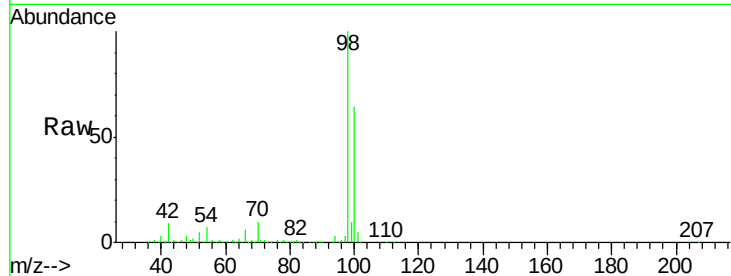




#50  
Toluene-d8  
Concen: 51.172 ug/l  
RT: 10.09 min Scan# 2587  
Delta R.T. -0.00 min  
Lab File: VN053857.D  
Acq: 19 Feb 2019 9:38

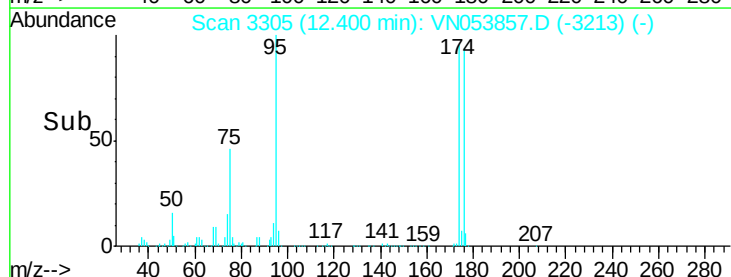
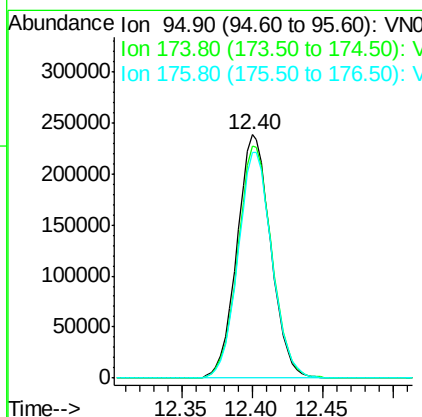
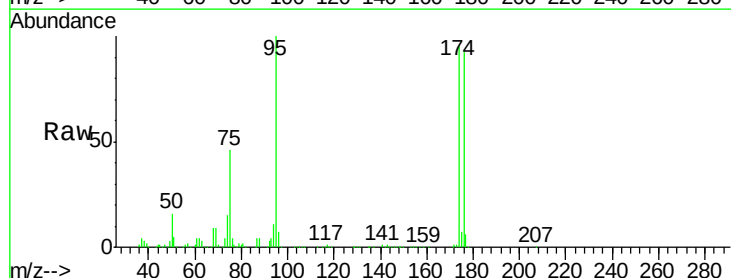
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0219WBL01

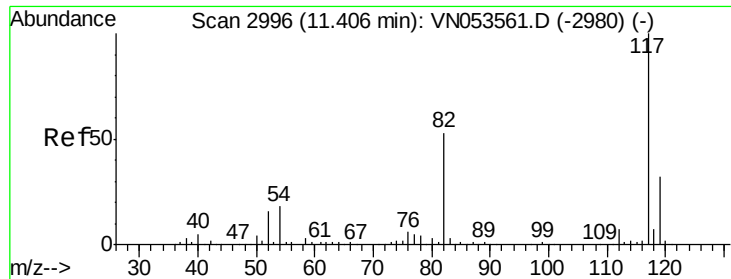
Tot Ion: 98 Resp: 1214724  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.4 77.0



#62  
4-Bromofluorobenzene  
Concen: 50.366 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN053857.D  
Acq: 19 Feb 2019 9:38

Tgt Ion: 95 Resp: 398750  
Ion Ratio Lower Upper  
95 100  
174 96.2 0.0 183.2  
176 93.5 0.0 177.4

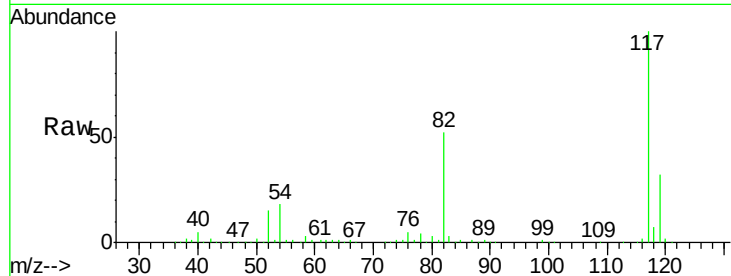




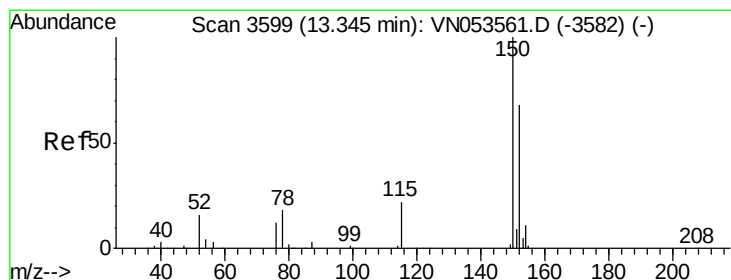
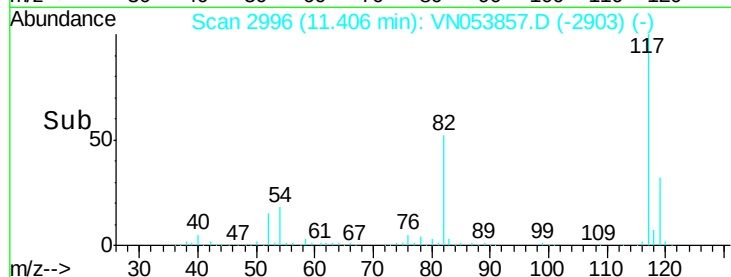
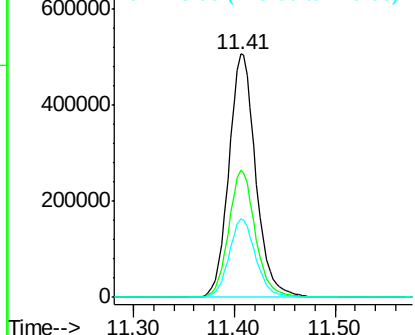
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN053857.D  
Acq: 19 Feb 2019 9:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0219WBL01

Tot Ion:117 Resp: 935814  
Ion Ratio Lower Upper  
117 100  
82 52.1 42.9 64.3  
119 32.4 26.0 39.0

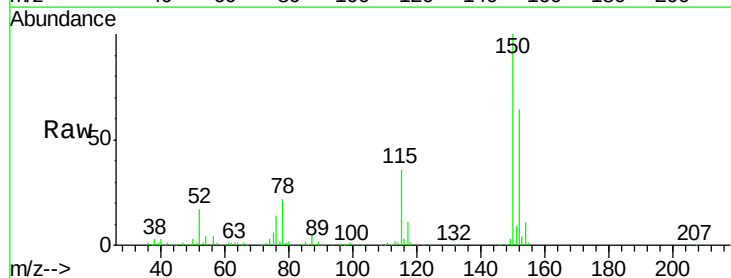


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. -0.00 min  
Lab File: VN053857.D  
Acq: 19 Feb 2019 9:38

Tgt Ion:152 Resp: 365534  
Ion Ratio Lower Upper  
152 100  
115 54.9 27.8 83.4  
150 155.3 0.0 349.0



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

