

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080318\  
 Data File : VN050330.D  
 Acq On : 3 Aug 2018 23:16  
 Operator : MD\SY  
 Sample : VN0803WBL03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0803WBL03

Quant Time: Aug 04 01:53:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 26 18:10:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 651594   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1071072  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 913696   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 378593   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 471974   | 51.92 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.84% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 413541   | 47.29 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.58%  |      |
| 50) Toluene-d8              | 10.09  | 98  | 1469619  | 45.71 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.42%  |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 419017   | 39.58 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 79.16%  |      |

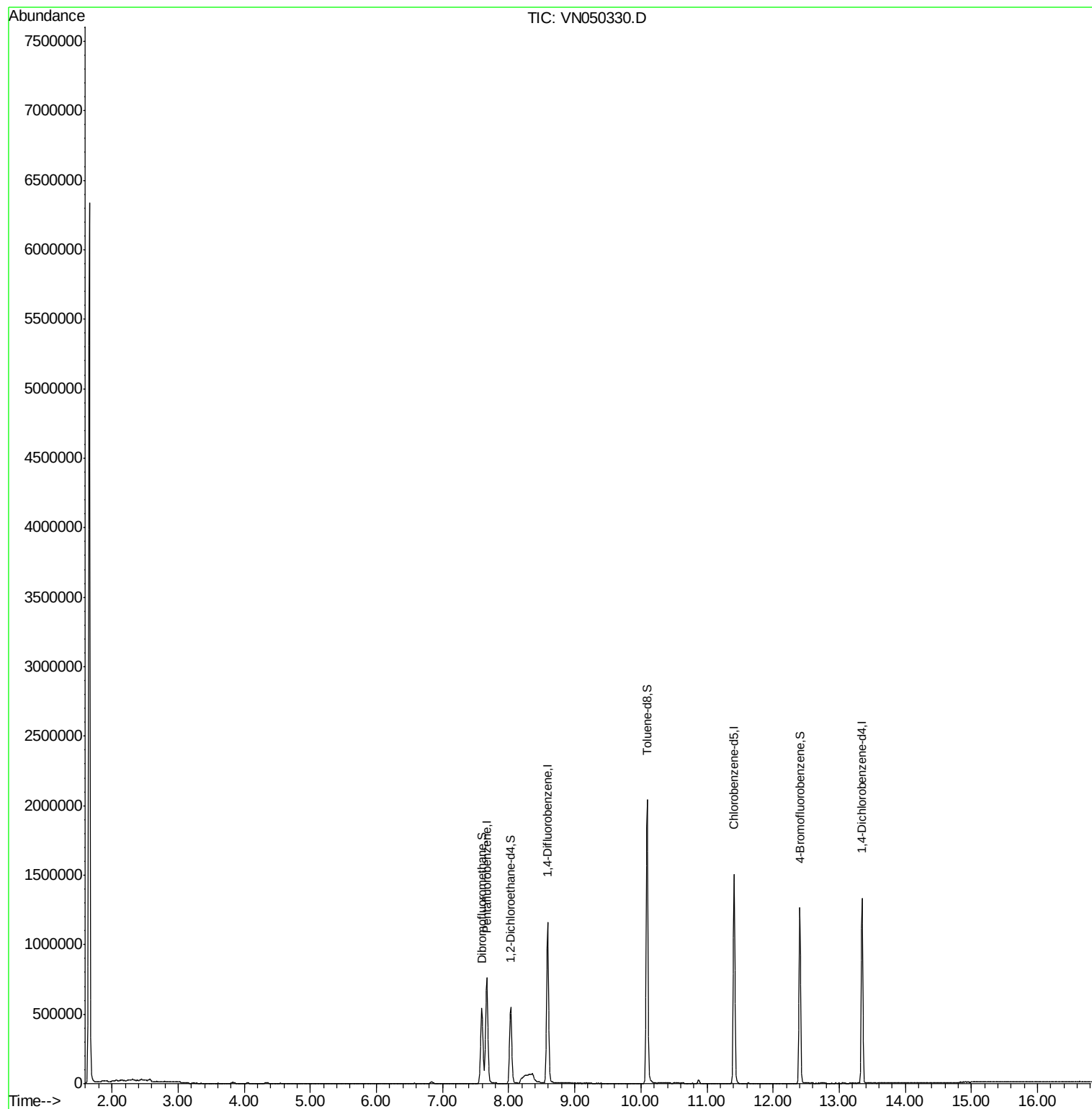
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

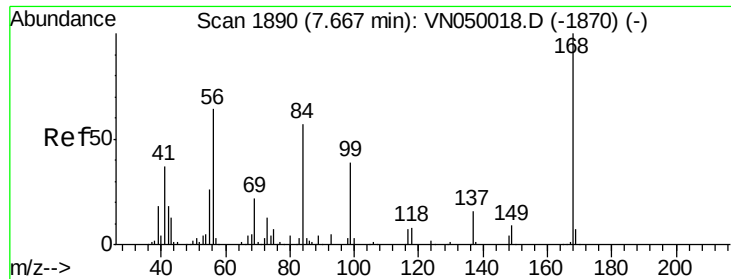
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
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Quant Time: Aug 04 01:53:03 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N072418W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 26 18:10:10 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050330.D

Acq: 3 Aug 2018 23:16

Instrument :

MSVOA\_N

ClientSampleId :

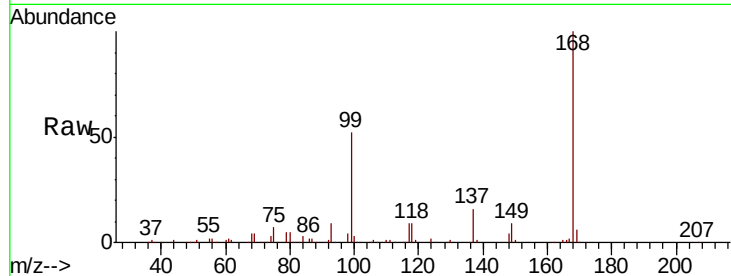
VN0803WBL03

Tot Ion:168 Resp: 651594

Ion Ratio Lower Upper

168 100

99 51.7 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

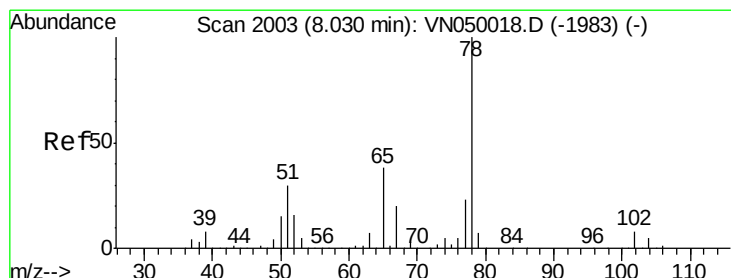
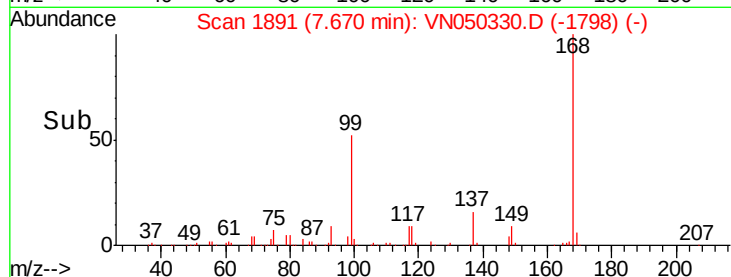
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.92 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050330.D

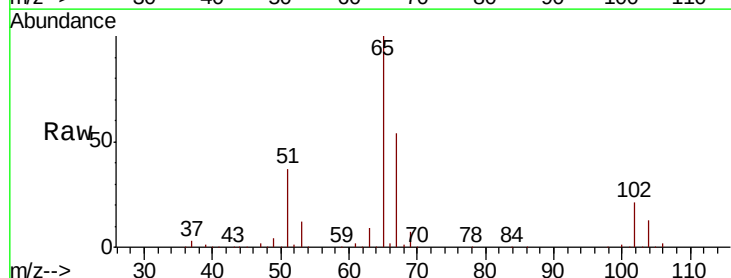
Acq: 3 Aug 2018 23:16

Tgt Ion: 65 Resp: 471974

Ion Ratio Lower Upper

65 100

67 53.2 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN

Ion 66.90 (66.60 to 67.60): VN

8.03

200000

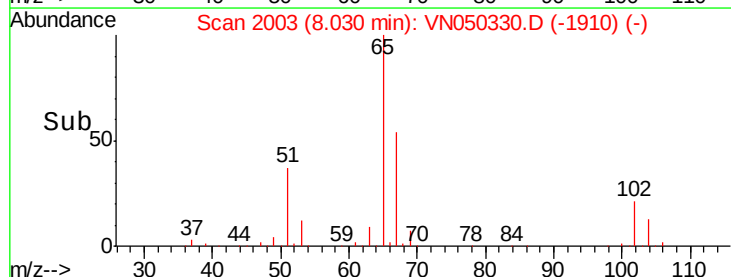
150000

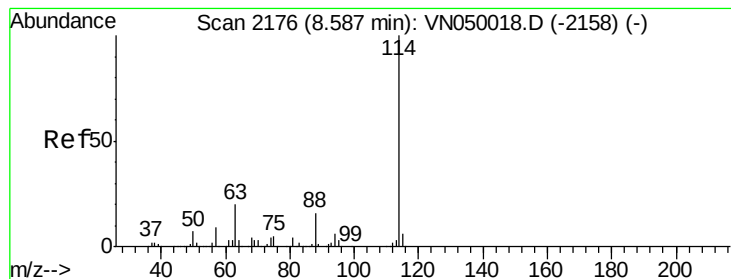
100000

50000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050330.D

Acq: 3 Aug 2018 23:16

Instrument :

MSVOA\_N

ClientSampleId :

VN0803WBL03

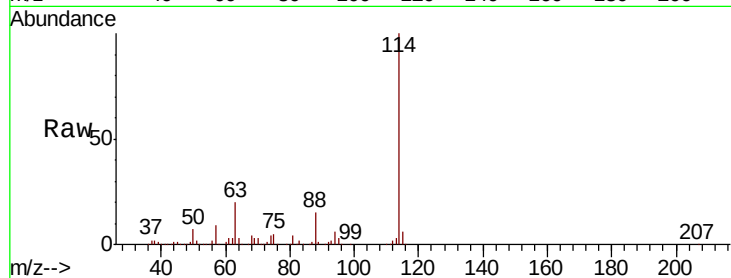
Tot Ion:114 Resp: 1071072

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.0

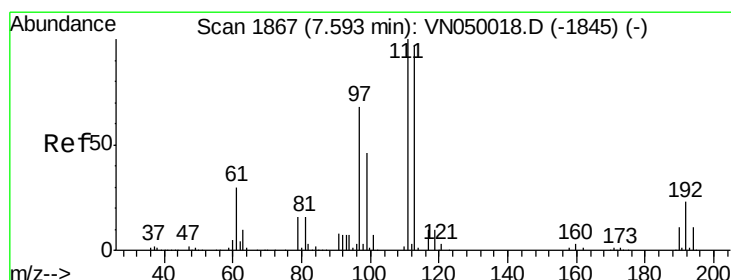
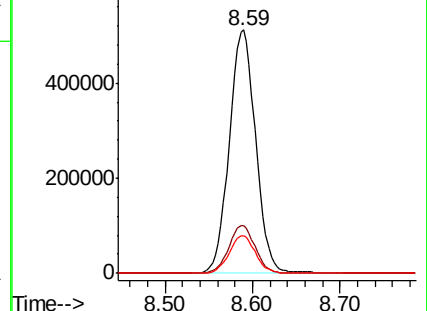
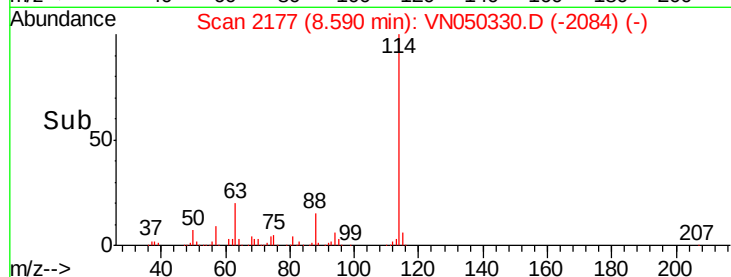
88 15.4 0.0 31.2



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: 47.29 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN050330.D

Acq: 3 Aug 2018 23:16

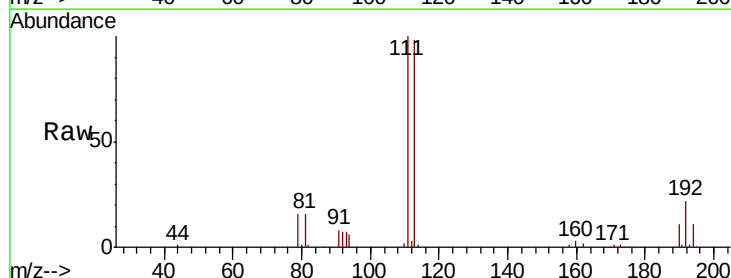
Tgt Ion:113 Resp: 413541

Ion Ratio Lower Upper

113 100

111 103.0 80.7 121.1

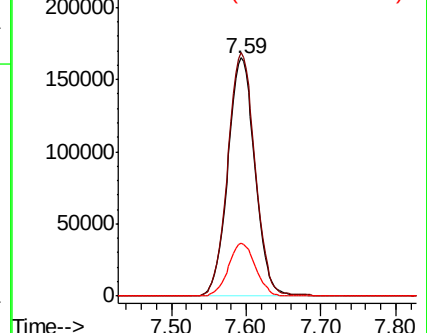
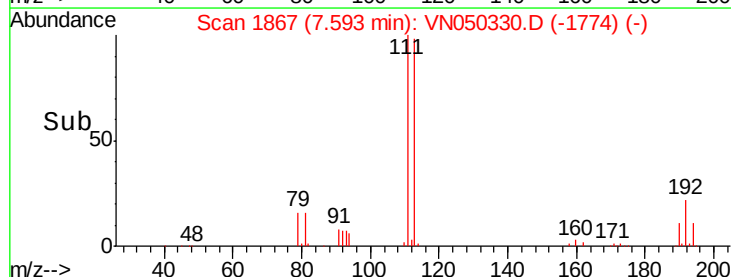
192 22.3 17.8 26.6

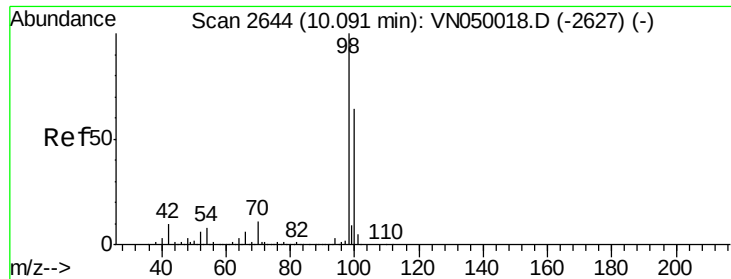


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

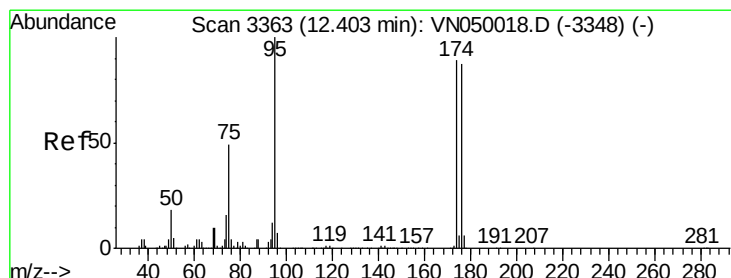
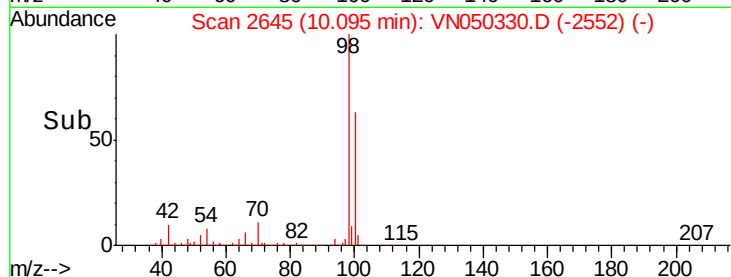
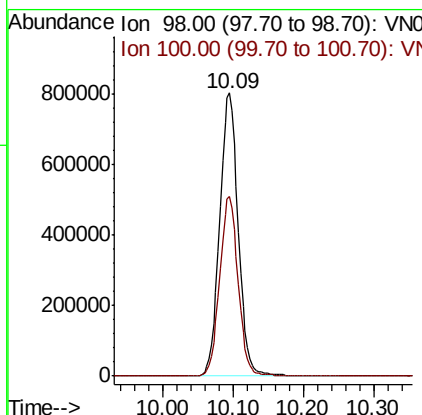
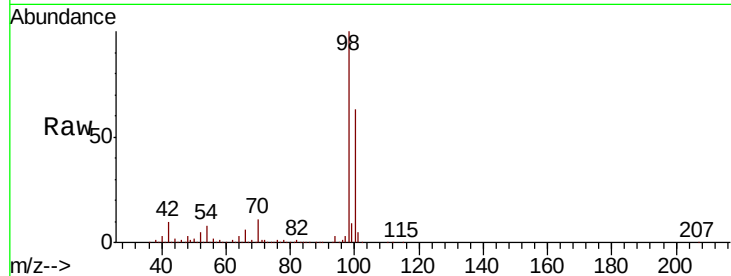




#50  
Toluene-d8  
Concen: 45.71 ug/l  
RT: 10.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VN050330.D  
Acq: 3 Aug 2018 23:16

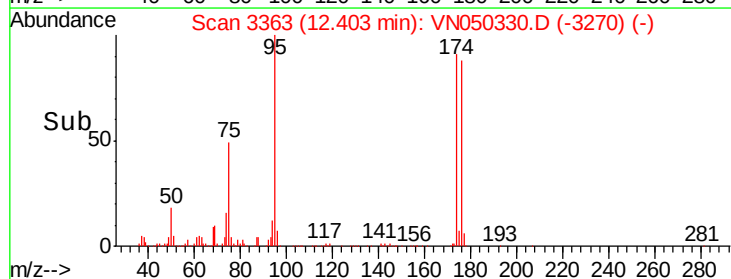
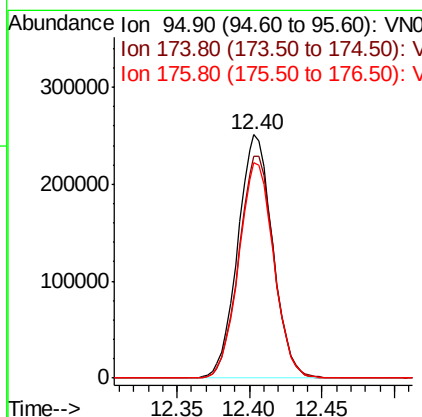
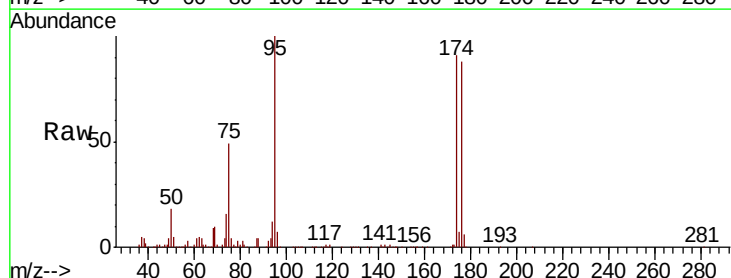
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0803WBL03

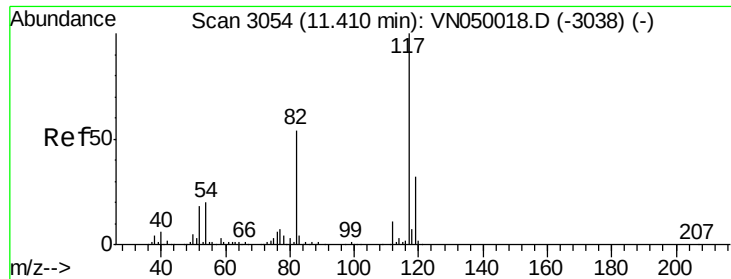
Tot Ion: 98 Resp: 1469619  
Ion Ratio Lower Upper  
98 100  
100 63.1 50.7 76.1



#62  
4-Bromofluorobenzene  
Concen: 39.58 ug/l  
RT: 12.40 min Scan# 3363  
Delta R.T. 0.00 min  
Lab File: VN050330.D  
Acq: 3 Aug 2018 23:16

Tgt Ion: 95 Resp: 419017  
Ion Ratio Lower Upper  
95 100  
174 92.1 0.0 178.2  
176 88.9 0.0 173.4

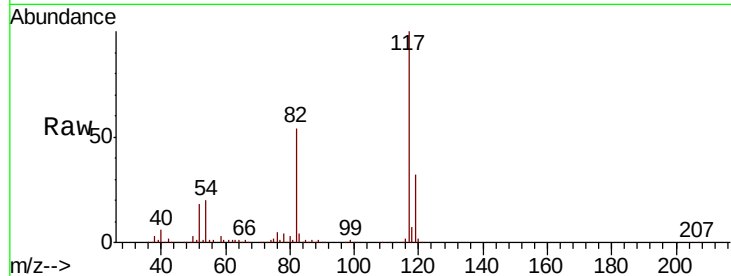




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. 0.00 min  
Lab File: VN050330.D  
Acq: 3 Aug 2018 23:16

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0803WBL03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.8  | 43.7  | 65.5  |
| 119     | 32.2  | 26.1  | 39.1  |

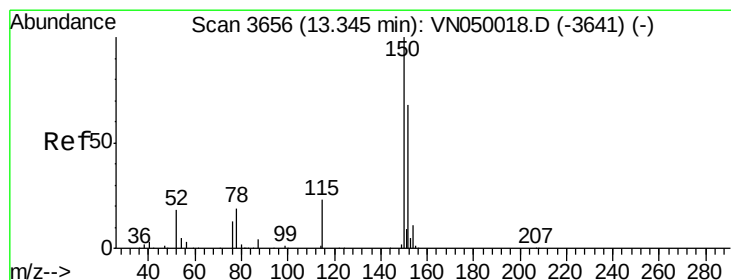
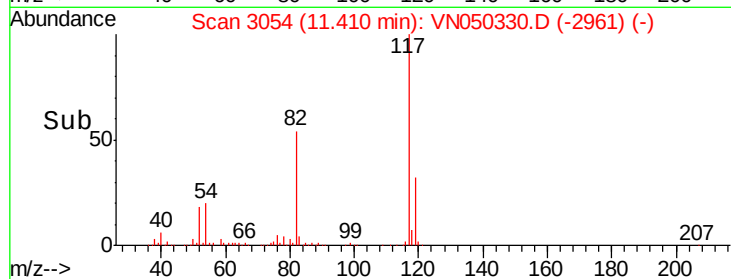
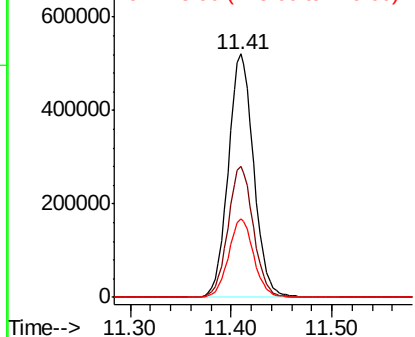


Abundance

Ion 116.90 (116.60 to 117.60): V

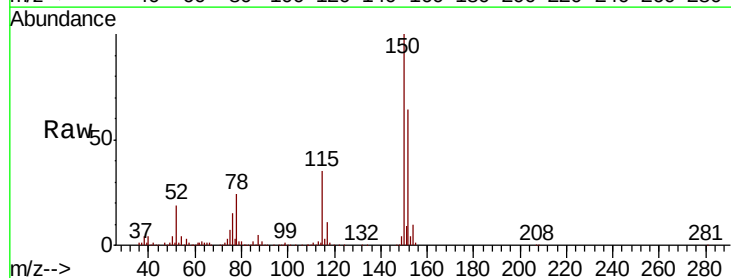
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.35 min Scan# 3656  
Delta R.T. 0.00 min  
Lab File: VN050330.D  
Acq: 3 Aug 2018 23:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.5  | 27.8  | 83.3  |
| 150     | 156.9 | 0.0   | 348.6 |



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

