

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\  
 Data File : VN050675.D  
 Acq On : 16 Aug 2018 00:43  
 Operator : MD\SY  
 Sample : VN0815WBL03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0815WBL03

Quant Time: Aug 16 05:07:01 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 14 08:07:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 599967   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 953065   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 821830   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 297395   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 411277   | 54.38 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.76% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 386560   | 50.80 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.60% |      |
| 50) Toluene-d8              | 10.09  | 98  | 1334746  | 46.61 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.22%  |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 361669   | 38.23 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 76.46%  |      |

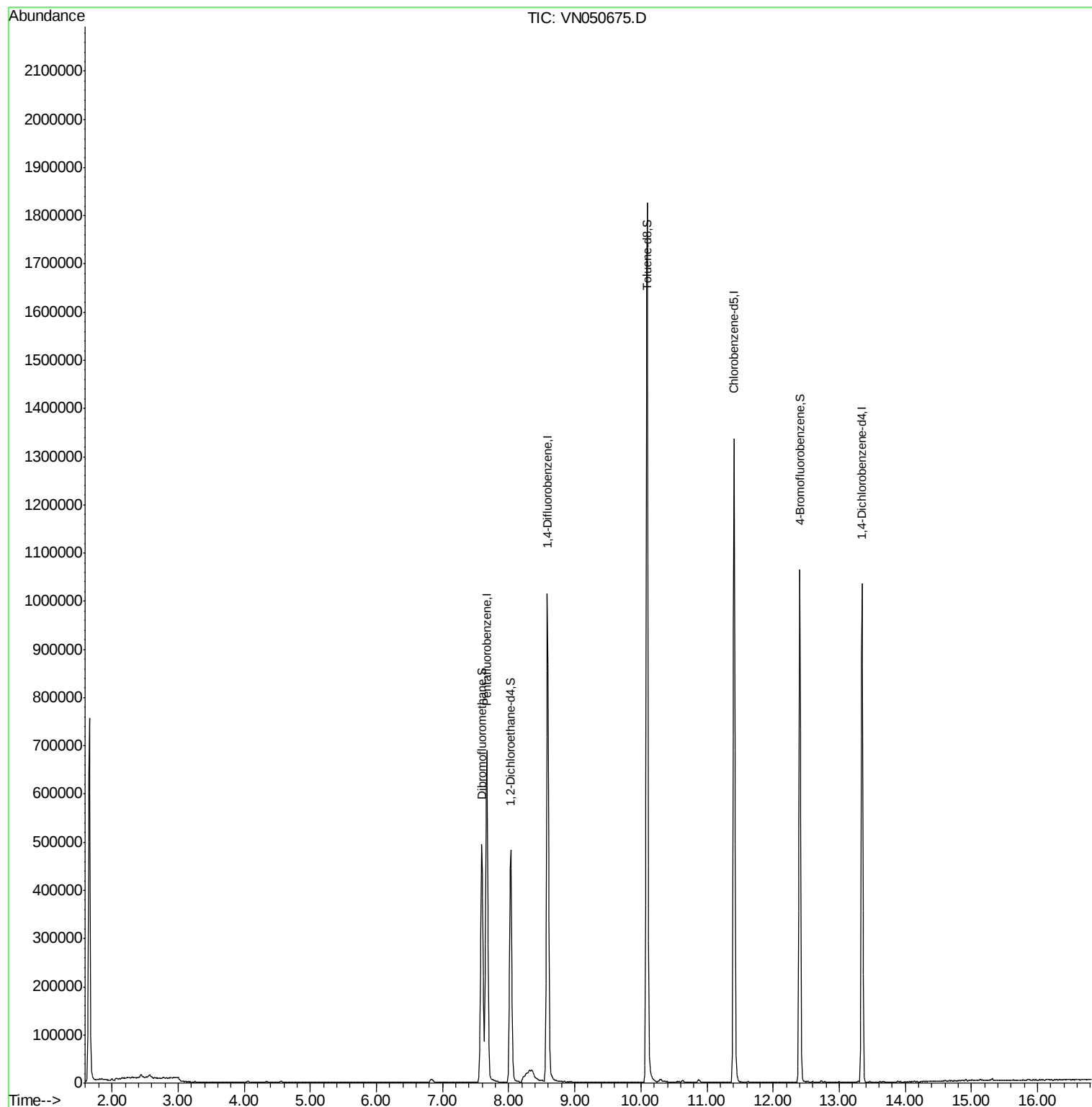
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

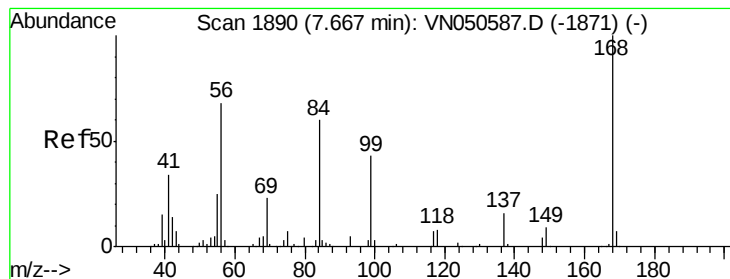
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN081518\  
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MSVOA\_N  
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VN0815WBL03

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N081418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 14 08:07:08 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: VN050675.D

Acq: 16 Aug 2018 00:43

Instrument :

MSVOA\_N

ClientSampled :

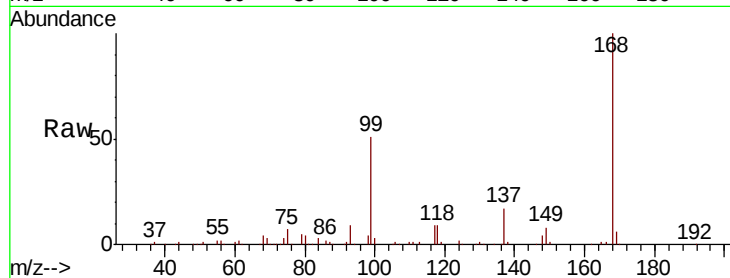
VN0815WBL03

Tot Ion:168 Resp: 599967

Ion Ratio Lower Upper

168 100

99 50.9 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

250000

200000

150000

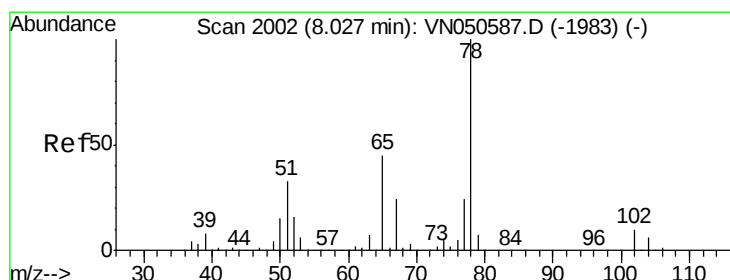
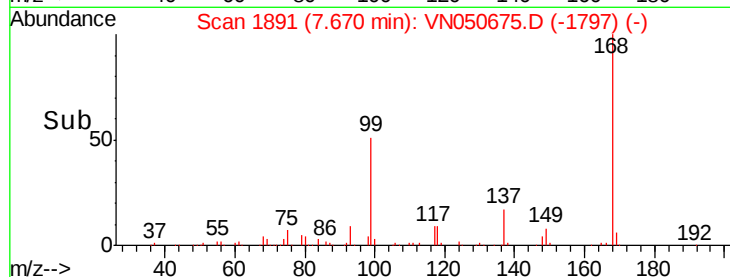
100000

50000

0

7.50 7.60 7.70 7.80 7.90

Time-->



#33

1,2-Dichloroethane-d4

Concen: 54.38 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050675.D

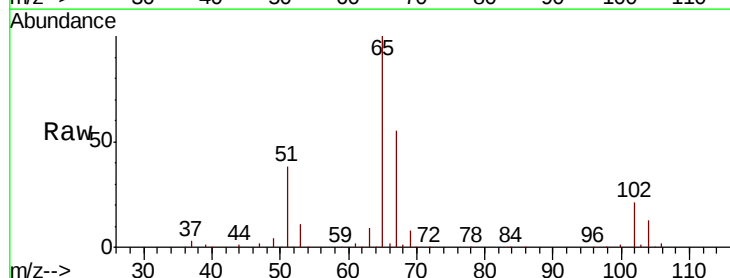
Acq: 16 Aug 2018 00:43

Tgt Ion: 65 Resp: 411277

Ion Ratio Lower Upper

65 100

67 54.3 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN050587.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050587.D (-1983) (-)

8.03

200000

150000

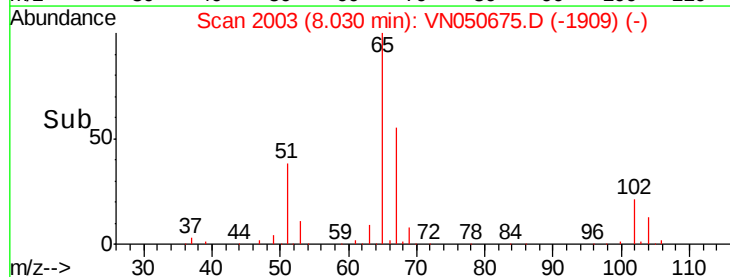
100000

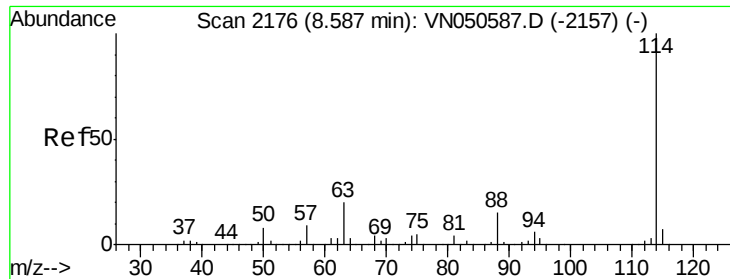
50000

0

7.90 8.00 8.10 8.20

Time-->

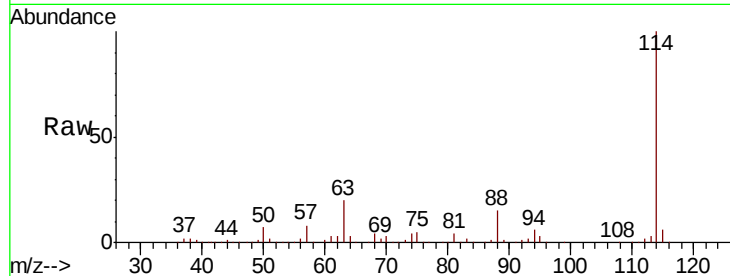




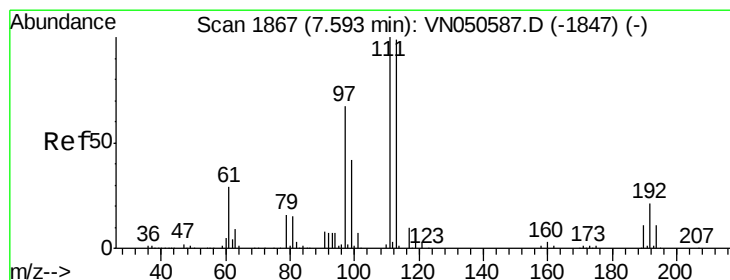
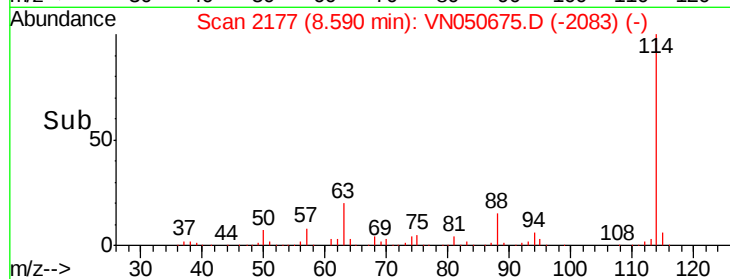
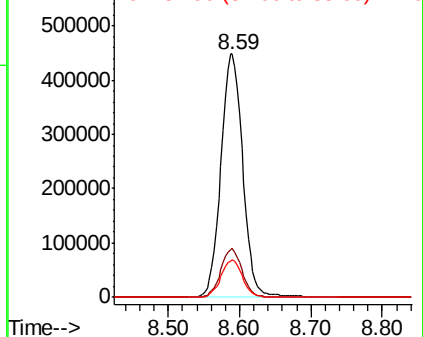
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2177  
 Delta R.T. 0.00 min  
 Lab File: VN050675.D  
 Acq: 16 Aug 2018 00:43

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0815WBL03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.9  | 0.0   | 40.0  |
| 88      | 15.4  | 0.0   | 30.8  |

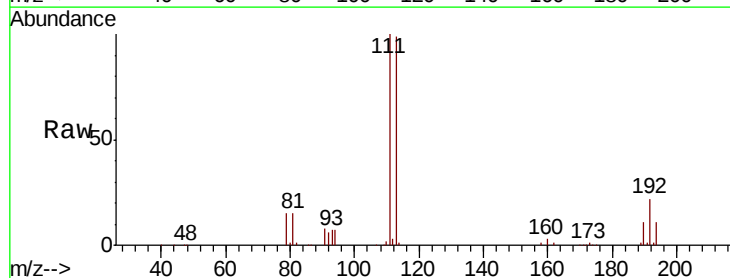


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

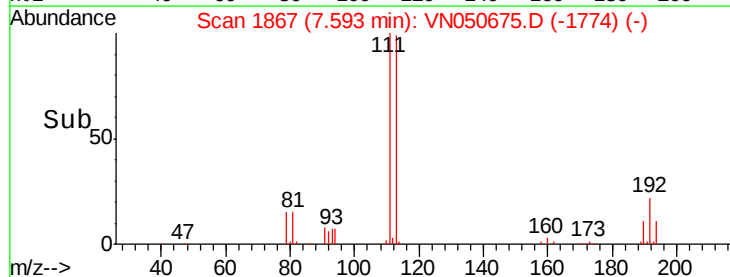
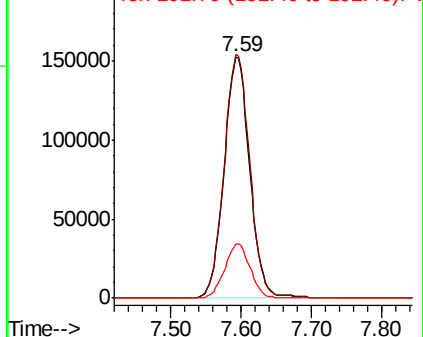


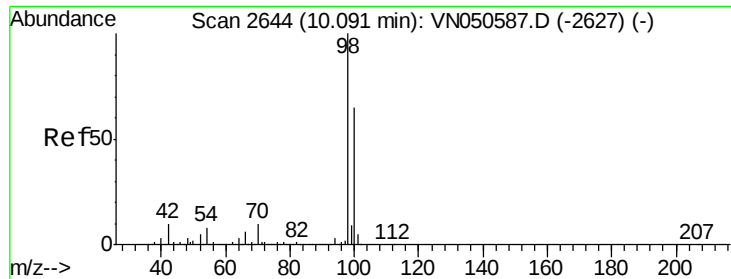
#35  
 Dibromofluoromethane  
 Concen: 50.80 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VN050675.D  
 Acq: 16 Aug 2018 00:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.1 | 81.0  | 121.6 |
| 192     | 22.3  | 17.6  | 26.4  |



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: 46.61 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050675.D

Acq: 16 Aug 2018 00:43

Instrument :

MSVOA\_N

ClientSampleId :

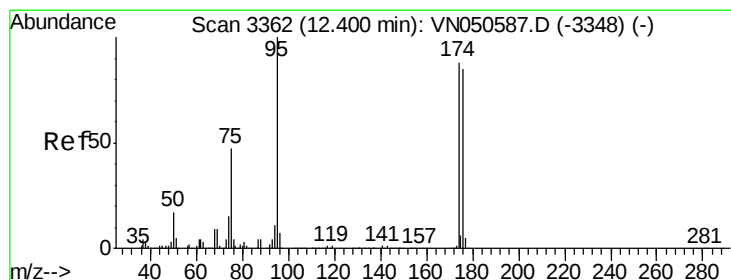
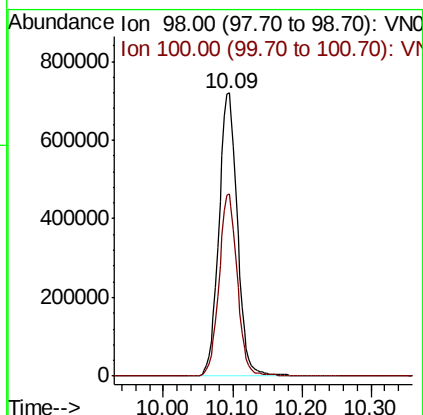
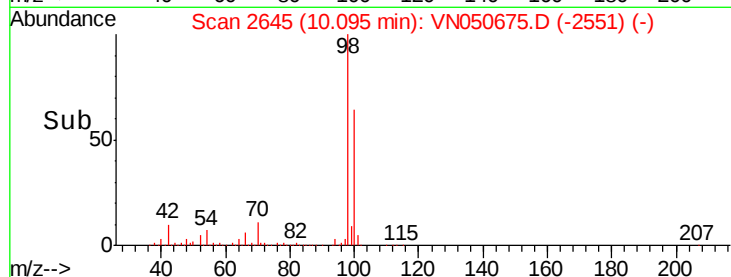
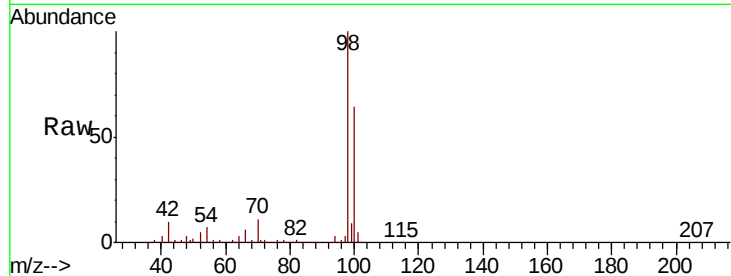
VN0815WBL03

Tot Ion: 98 Resp: 1334746

Ion Ratio Lower Upper

98 100

100 63.2 51.8 77.8



#62

4-Bromofluorobenzene

Concen: 38.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050675.D

Acq: 16 Aug 2018 00:43

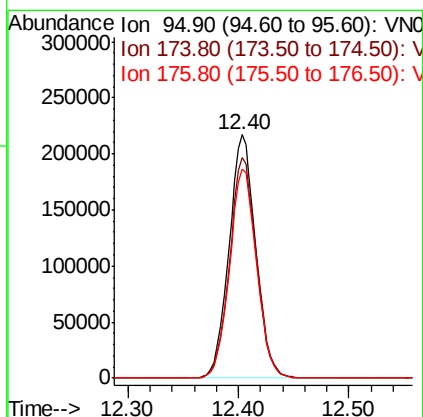
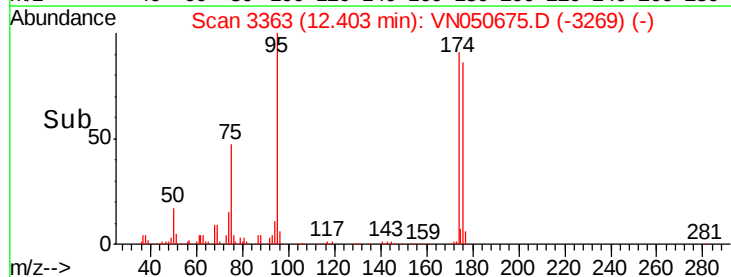
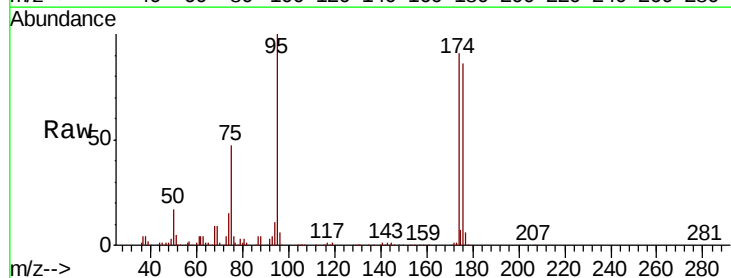
Tgt Ion: 95 Resp: 361669

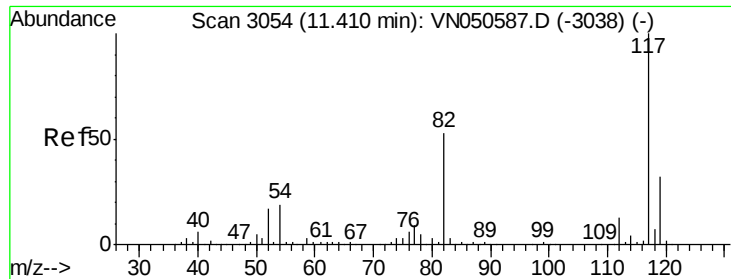
Ion Ratio Lower Upper

95 100

174 92.1 0.0 177.8

176 87.2 0.0 175.0

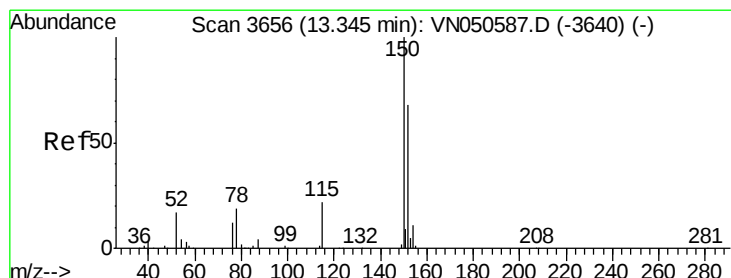
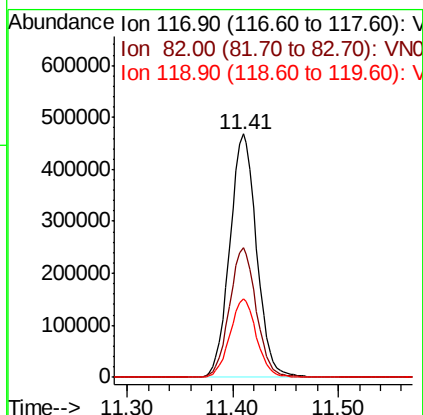
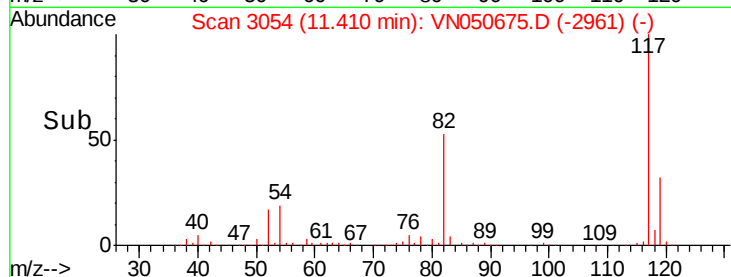
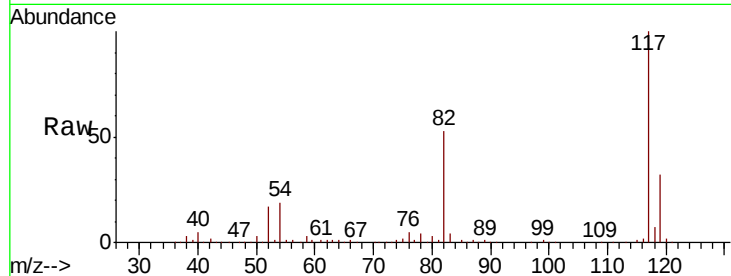




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. 0.00 min  
Lab File: VN050675.D  
Acq: 16 Aug 2018 00:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0815WBL03

Tot Ion:117 Resp: 821830  
Ion Ratio Lower Upper  
117 100  
82 53.3 42.4 63.6  
119 32.1 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.35 min Scan# 3656  
Delta R.T. 0.00 min  
Lab File: VN050675.D  
Acq: 16 Aug 2018 00:43

Tgt Ion:152 Resp: 297395  
Ion Ratio Lower Upper  
152 100  
115 55.7 28.1 84.2  
150 157.5 0.0 347.8

