

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080318\  
 Data File : VN050350.D  
 Acq On : 4 Aug 2018 7:33  
 Operator : MD\SY  
 Sample : J4313-18  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 C-13

Quant Time: Aug 06 01:01:55 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  | 628309   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1036010  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 900008   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 388840   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 446515   | 50.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.88% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 390423   | 46.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.32%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1413115  | 45.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.88%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 421920   | 41.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 82.40%  |          |

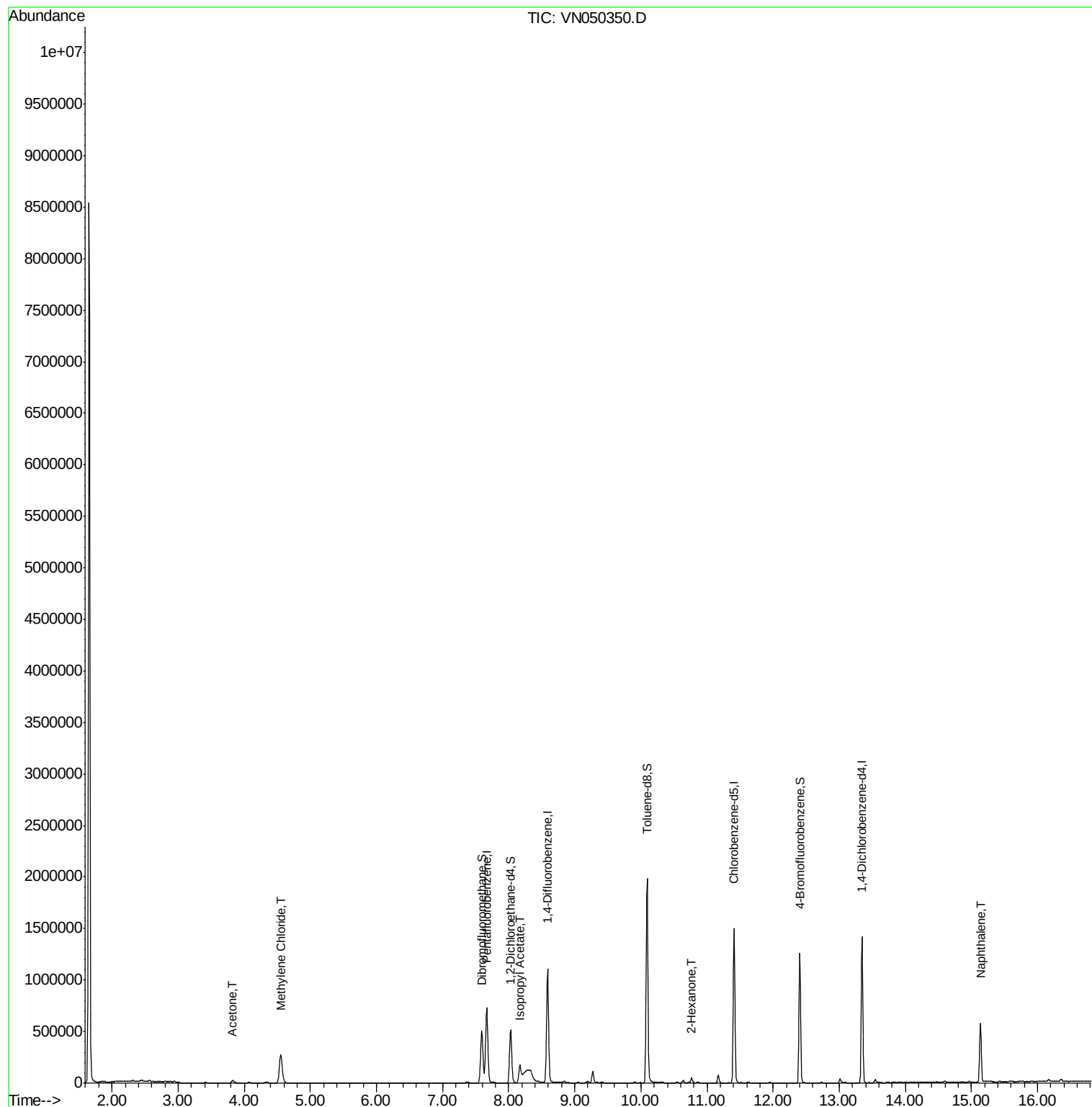
| Target Compounds       | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|------------------------|-------|------|----------|-------|--------|--------|
| 16) Acetone            | 3.83  | 43   | 38463    | 14.54 | ug/l   | 100    |
| 20) Methylene Chloride | 4.55  | 84   | 215645   | 27.17 | ug/l   | 99     |
| 43) Isopropyl Acetate  | 8.17  | 43   | 216340   | 13.27 | ug/l   | 93     |
| 59) 2-Hexanone         | 10.77 | 43   | 6662     | 6.28  | ug/l # | 58     |
| 95) Naphthalene        | 15.14 | 128  | 503439   | 30.26 | ug/l   | 100    |

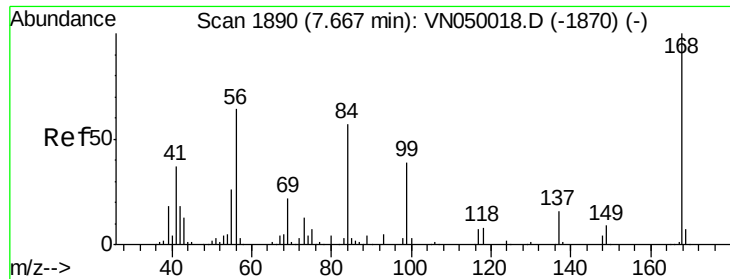
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050350.D

Acq: 4 Aug 2018 7:33

Instrument :

MSVOA\_N

ClientSampled :

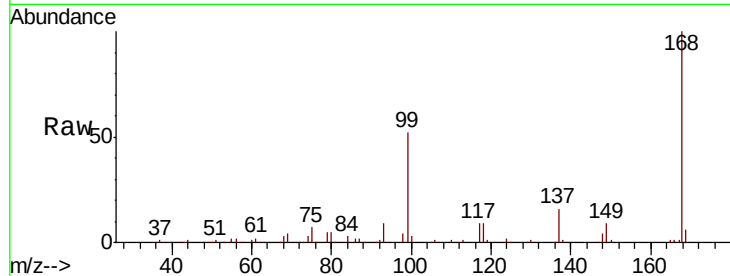
C-13

Tot Ion:168 Resp: 628309

Ion Ratio Lower Upper

168 100

99 51.6 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

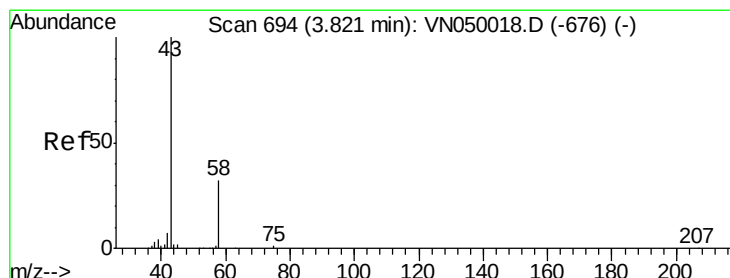
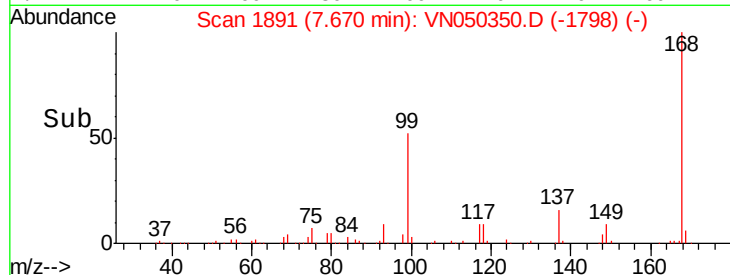
100000

50000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 14.54 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN050350.D

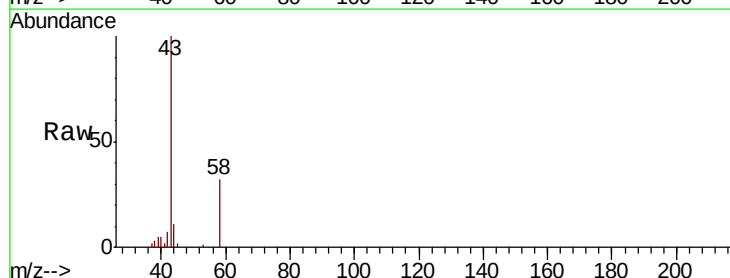
Acq: 4 Aug 2018 7:33

Tgt Ion: 43 Resp: 38463

Ion Ratio Lower Upper

43 100

58 32.0 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.83

15000

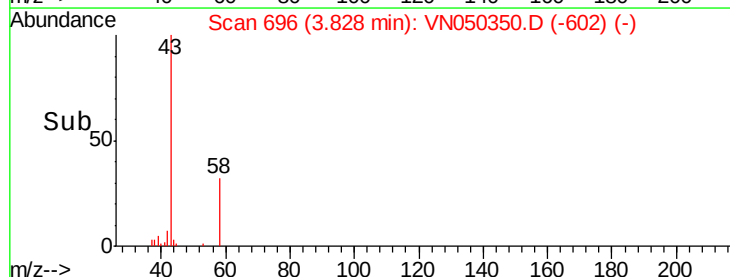
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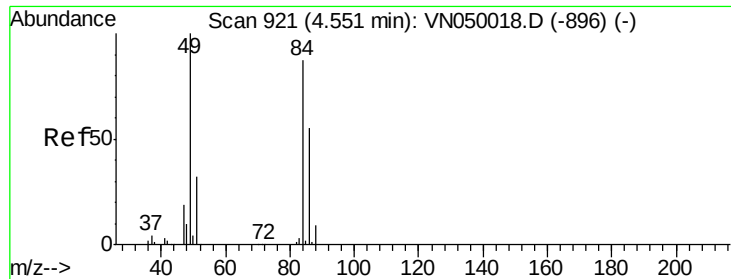
5000

0

3.70 3.80 3.90

Time-->

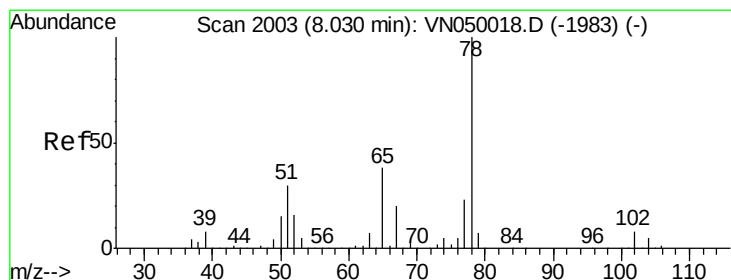
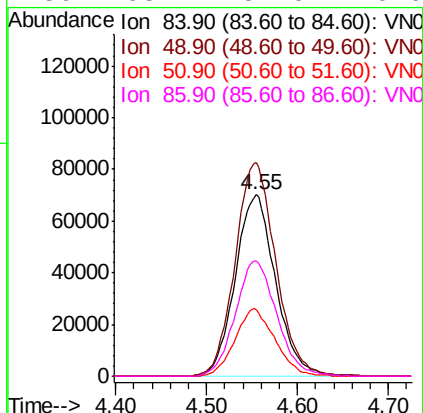
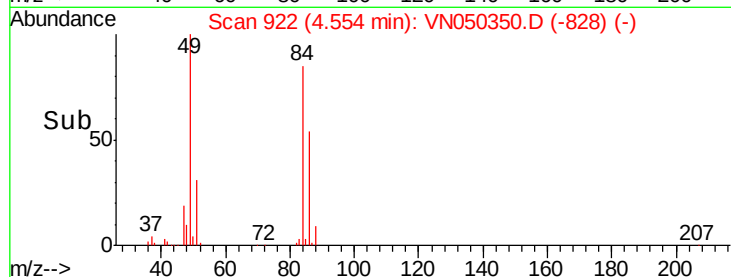
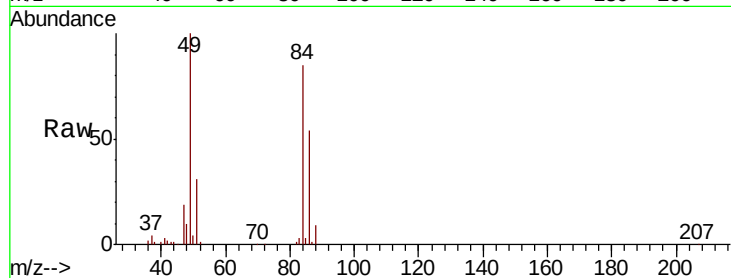




#20  
Methylene Chloride  
Concen: 27.17 ug/l  
RT: 4.55 min Scan# 922  
Delta R.T. 0.00 min  
Lab File: VN050350.D  
Acq: 4 Aug 2018 7:33

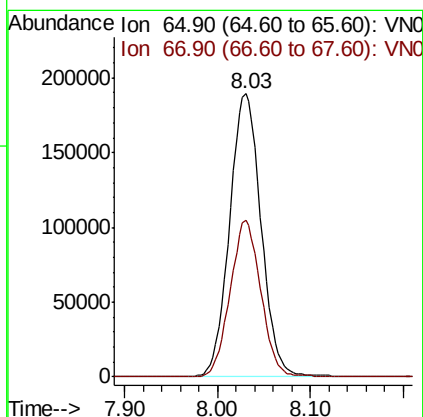
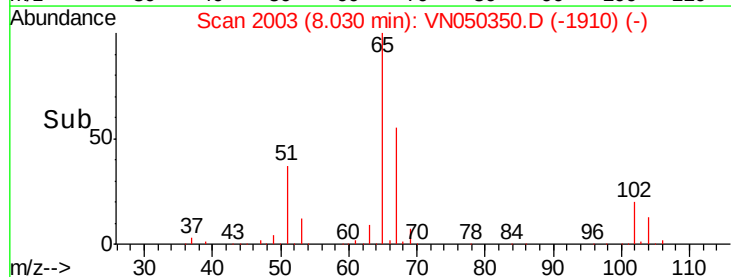
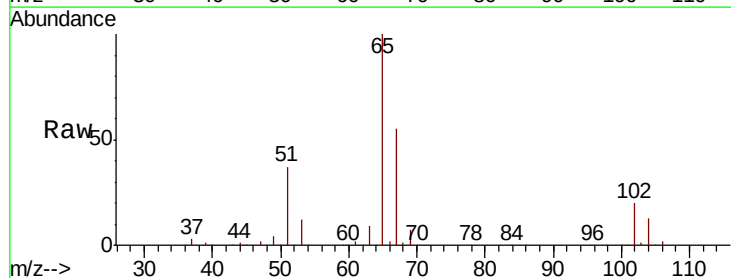
Instrument :  
MSVOA\_N  
ClientSampled :  
C-13

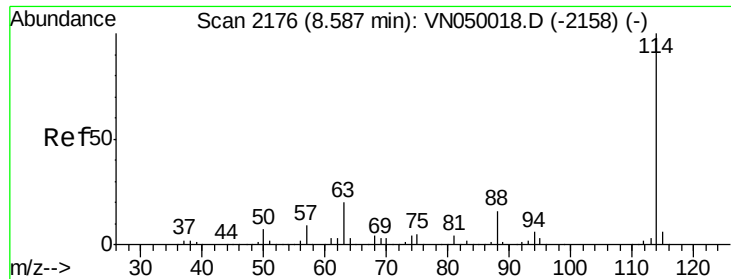
Tot Ion: 84 Resp: 215645  
Ion Ratio Lower Upper  
84 100  
49 117.6 94.8 142.2  
51 36.6 28.3 42.5  
86 63.2 51.0 76.6



#33  
1,2-Dichloroethane-d4  
Concen: 50.94 ug/l  
RT: 8.03 min Scan# 2003  
Delta R.T. -0.00 min  
Lab File: VN050350.D  
Acq: 4 Aug 2018 7:33

Tgt Ion: 65 Resp: 446515  
Ion Ratio Lower Upper  
65 100  
67 53.9 0.0 108.4

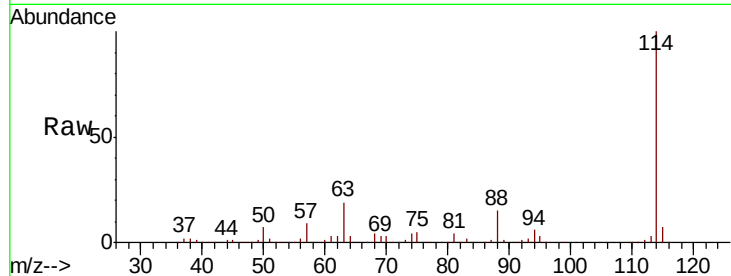




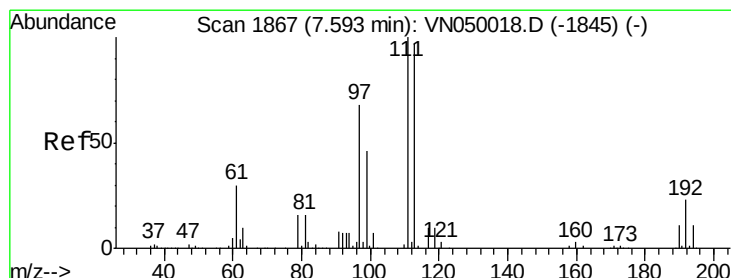
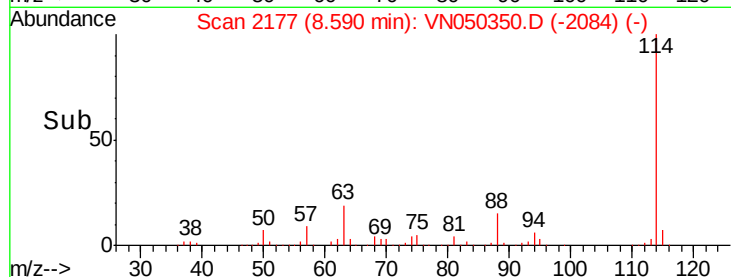
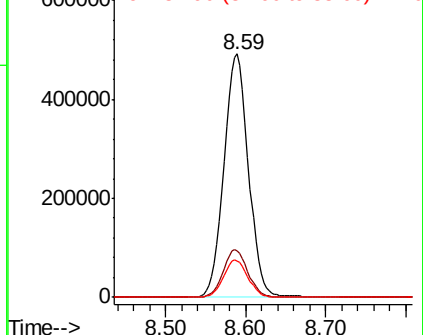
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2177  
 Delta R.T. -0.00 min  
 Lab File: VN050350.D  
 Acq: 4 Aug 2018 7:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 C-13

Tot Ion:114 Resp: 1036010  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 40.0  
 88 15.1 0.0 31.2

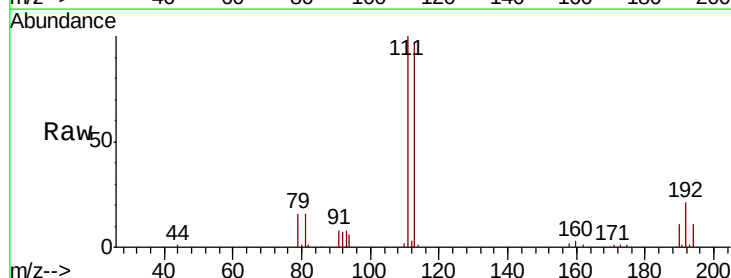


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

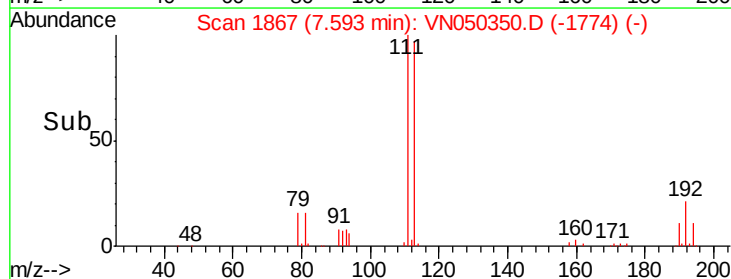
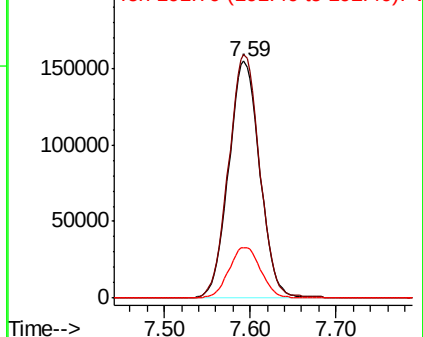


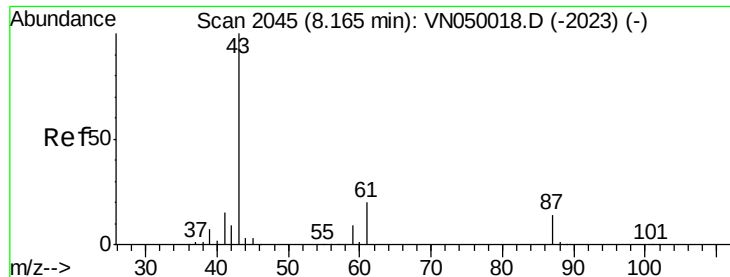
#35  
 Dibromofluoromethane  
 Concen: 46.16 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. -0.00 min  
 Lab File: VN050350.D  
 Acq: 4 Aug 2018 7:33

Tgt Ion:113 Resp: 390423  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 80.7 121.1  
 192 21.9 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





#43

Isopropyl Acetate

Concen: 13.27 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050350.D

Acq: 4 Aug 2018 7:33

Instrument :

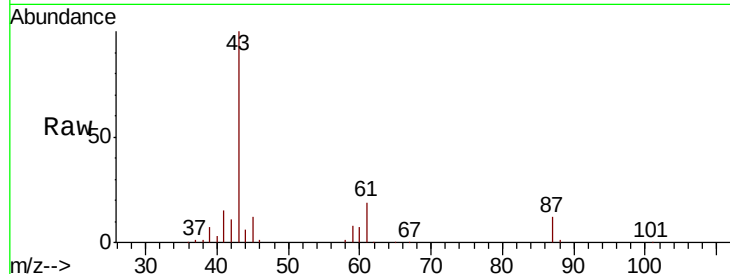
MSVOA\_N

ClientSampled :

C-13

Tot Ion: 43 Resp: 216340

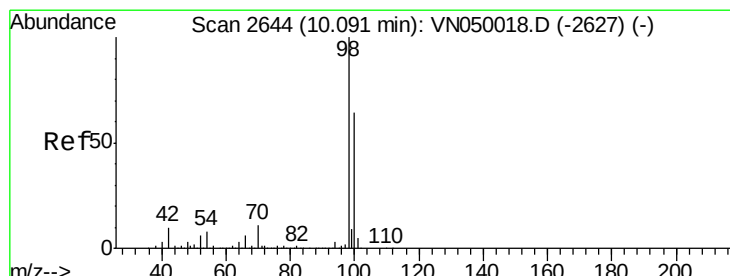
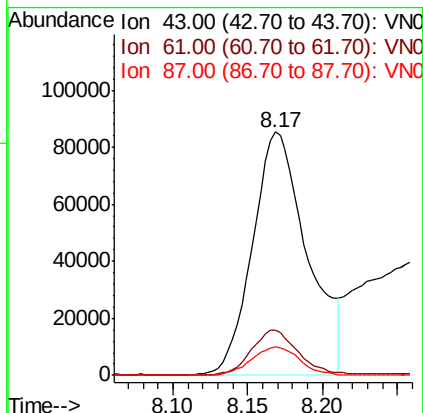
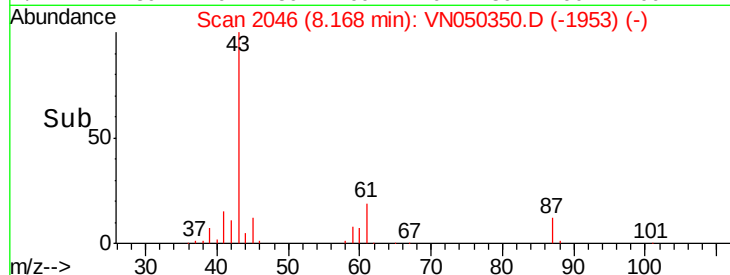
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 61  | 16.1  | 15.8  | 23.6  |
| 87  | 10.4  | 10.3  | 15.5  |



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 45.44 ug/l

RT: 10.09 min Scan# 2645

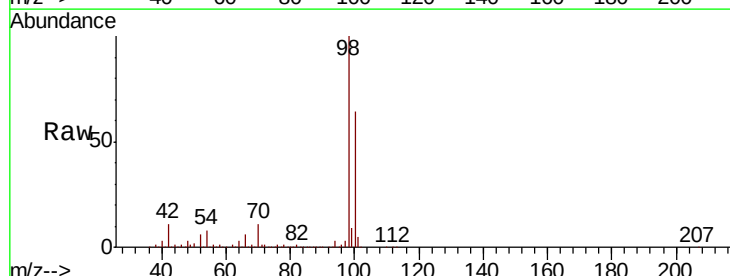
Delta R.T. -0.00 min

Lab File: VN050350.D

Acq: 4 Aug 2018 7:33

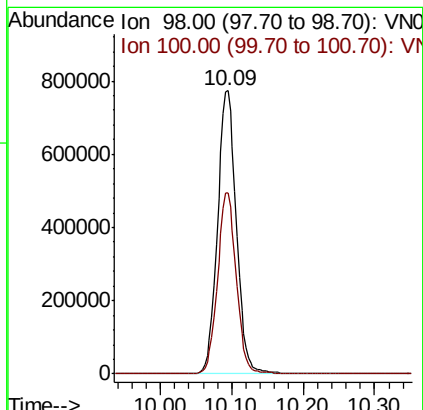
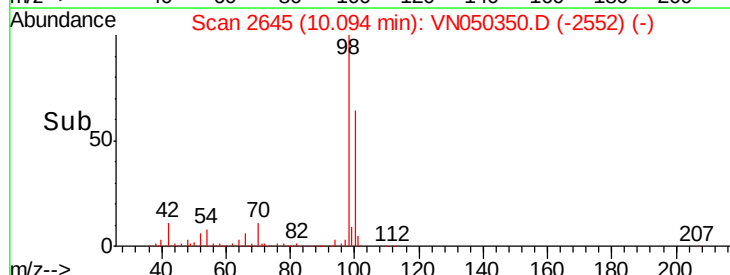
Tgt Ion: 98 Resp: 1413115

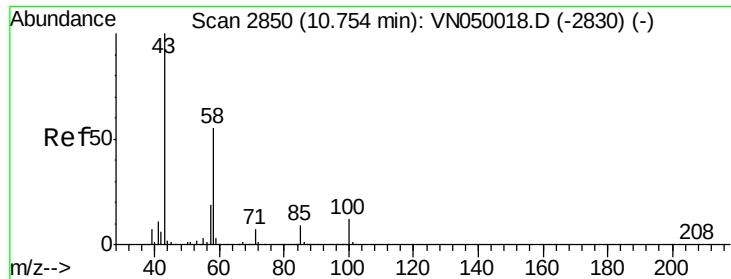
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 63.6  | 50.7  | 76.1  |



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#59

2-Hexanone

Concen: 6.28 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050350.D

Acq: 4 Aug 2018 7:33

Instrument :

MSVOA\_N

ClientSampled :

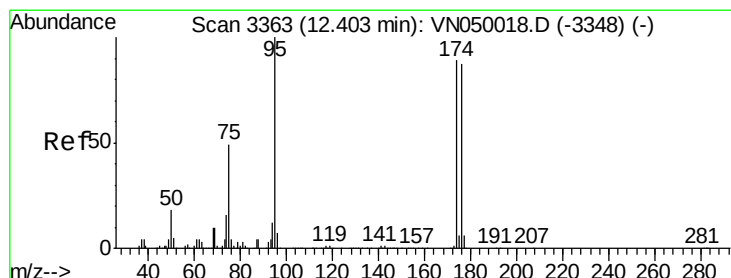
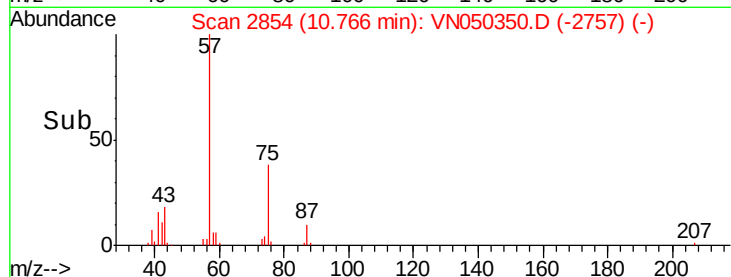
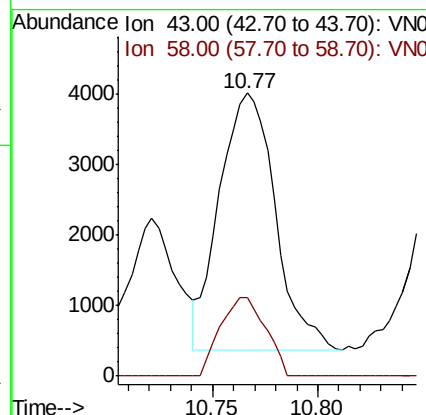
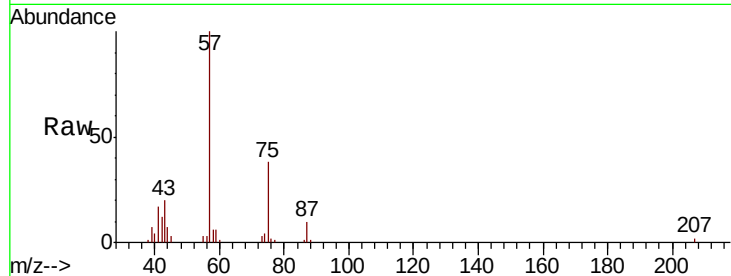
C-13

Tot Ion: 43 Resp: 6662

Ion Ratio Lower Upper

43 100

58 25.0 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 41.20 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050350.D

Acq: 4 Aug 2018 7:33

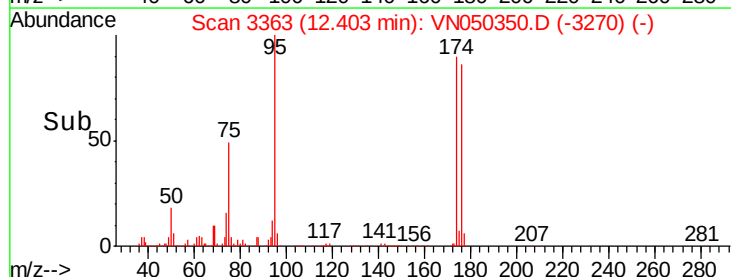
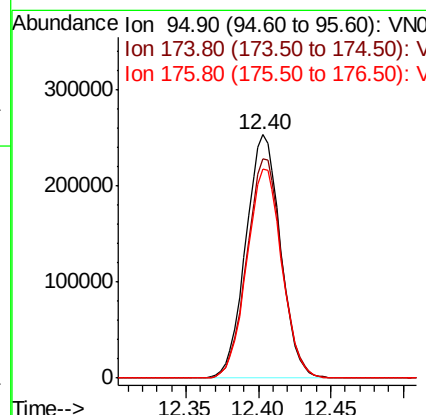
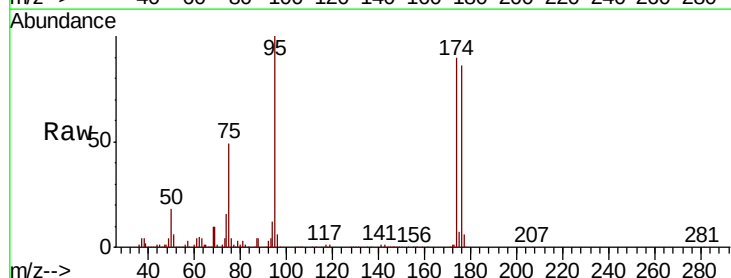
Tgt Ion: 95 Resp: 421920

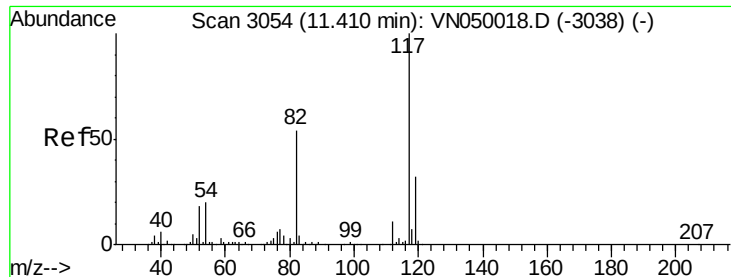
Ion Ratio Lower Upper

95 100

174 91.1 0.0 178.2

176 87.2 0.0 173.4

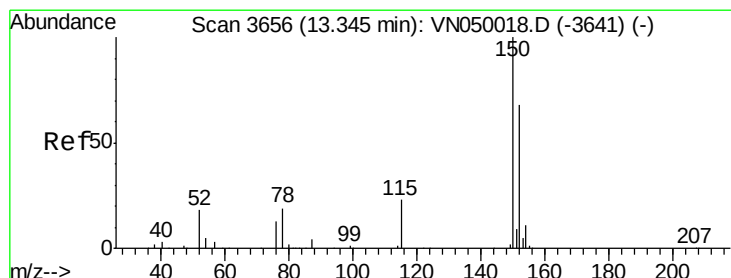
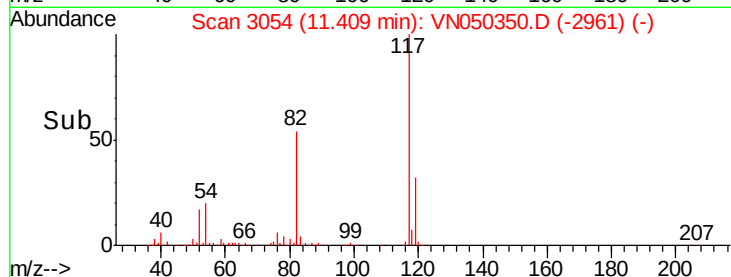
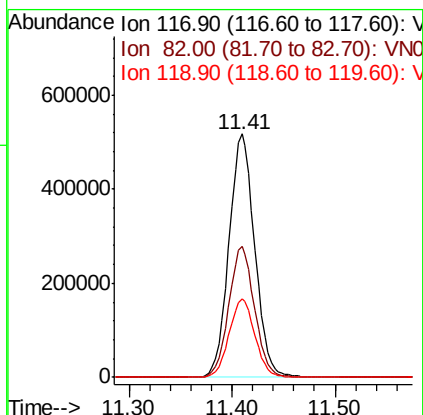
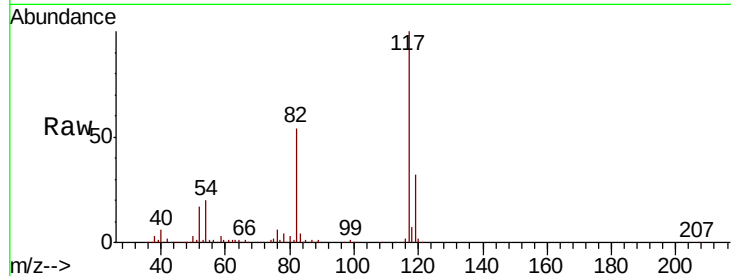




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. -0.00 min  
Lab File: VN050350.D  
Acq: 4 Aug 2018 7:33

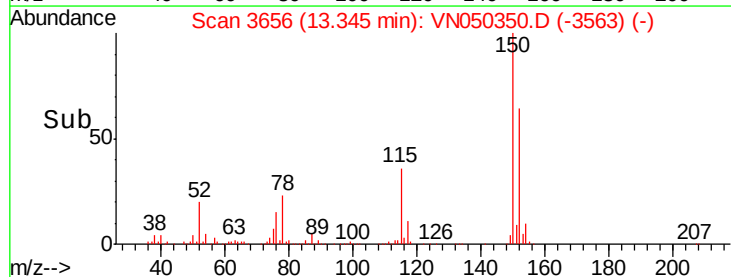
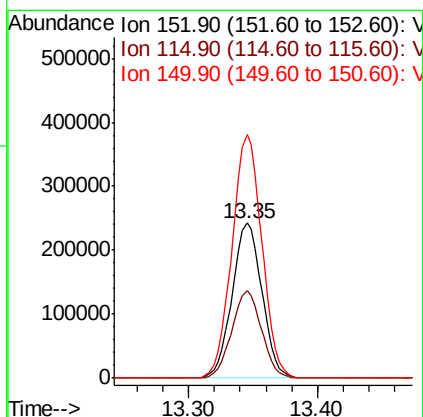
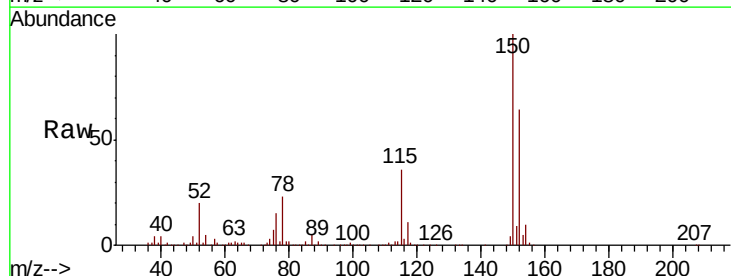
Instrument :  
MSVOA\_N  
ClientSampleId :  
C-13

Tot Ion:117 Resp: 900008  
Ion Ratio Lower Upper  
117 100  
82 53.6 43.7 65.5  
119 32.2 26.1 39.1

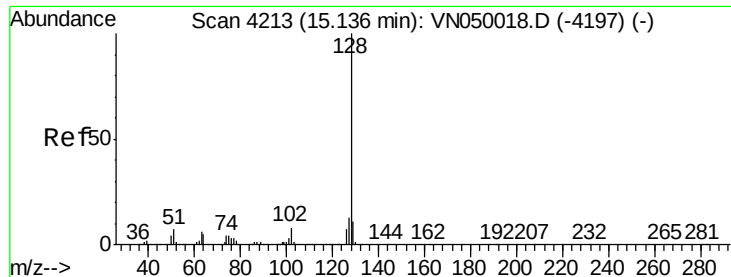


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.35 min Scan# 3656  
Delta R.T. -0.00 min  
Lab File: VN050350.D  
Acq: 4 Aug 2018 7:33

Tgt Ion:152 Resp: 388840  
Ion Ratio Lower Upper  
152 100  
115 56.1 27.8 83.3  
150 157.1 0.0 348.6



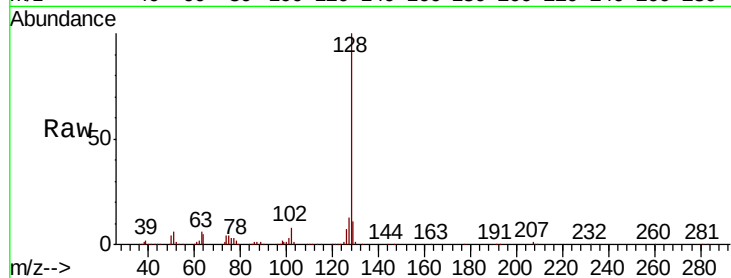




#95  
Naphthalene  
Concen: 30.26 ug/l  
RT: 15.14 min Scan# 4213  
Delta R.T. 0.00 min  
Lab File: VN050350.D  
Acq: 4 Aug 2018 7:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
C-13

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.3  | 10.4  | 15.6  |
| 129     | 11.1  | 8.8   | 13.2  |



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

