

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN120718\  
 Data File : VN052728.D  
 Acq On : 7 Dec 2018 15:52  
 Operator : MD\SY  
 Sample : J6214-51  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TW-3

Quant Time: Dec 10 11:31:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112718W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 03 03:24:02 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1128860  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1751508  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1497050  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 524651   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 603990   | 49.14 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.28%  |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 545772   | 50.54 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.08% |      |
| 50) Toluene-d8              | 10.09  | 98  | 2127294  | 50.61 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.22% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 636902   | 45.09 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.18%  |      |

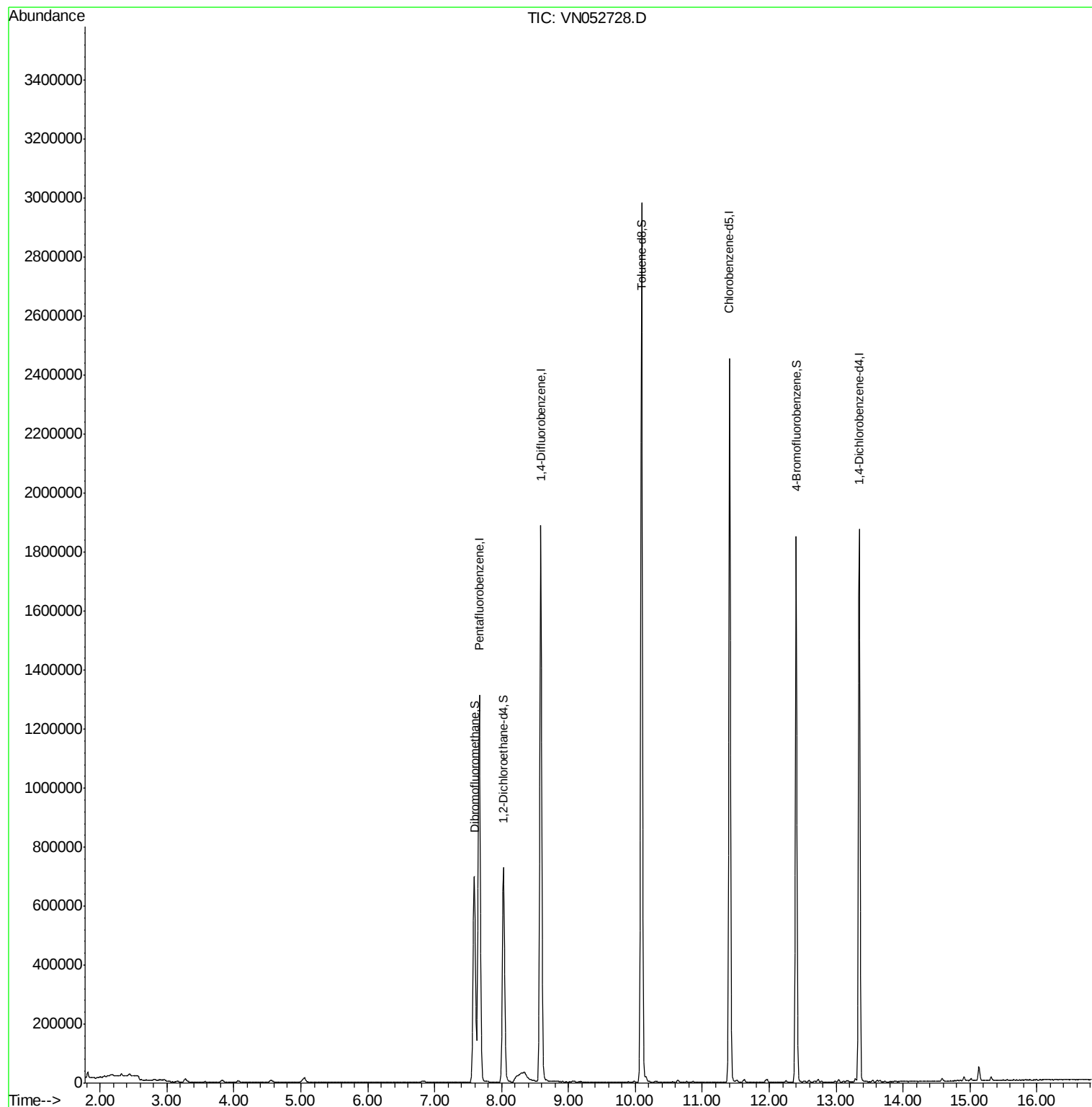
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

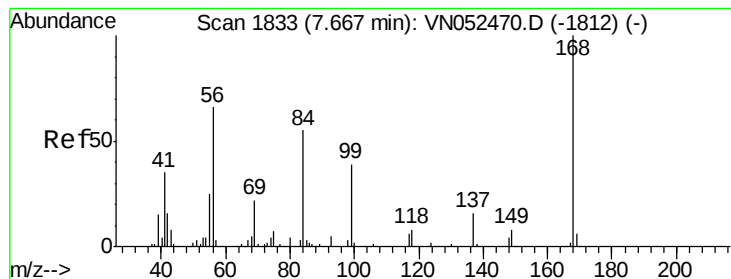
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 03 03:24:02 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA\_N

ClientSampleId :

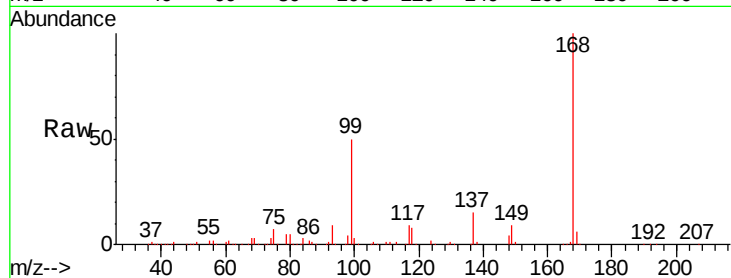
TW-3

Tgt Ion:168 Resp: 1128860

Ion Ratio Lower Upper

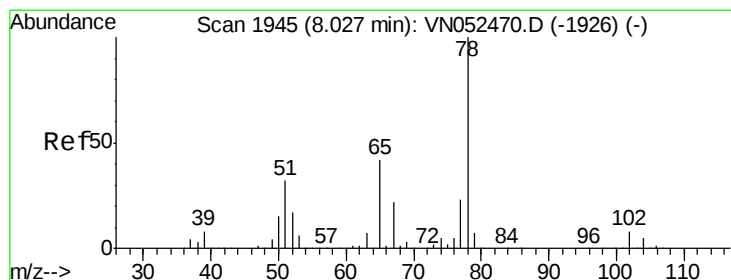
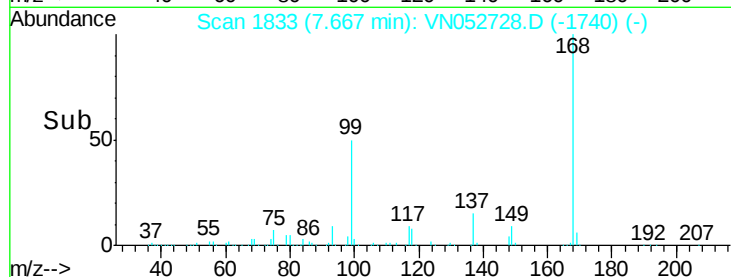
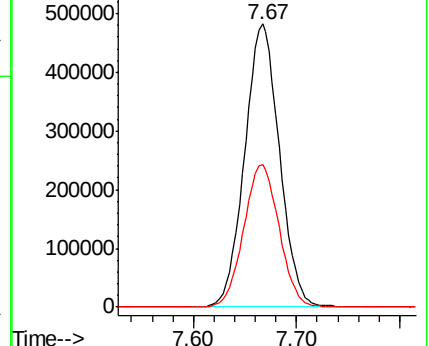
168 100

99 50.5 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052728.D

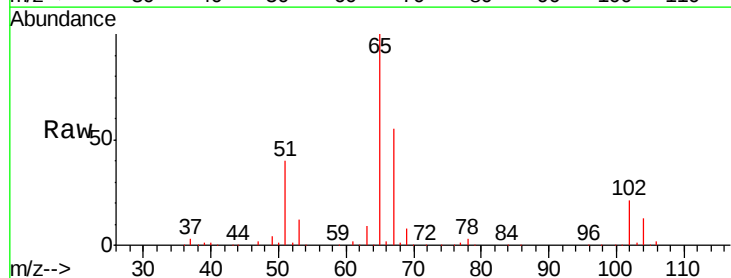
Acq: 7 Dec 2018 15:52

Tgt Ion: 65 Resp: 603990

Ion Ratio Lower Upper

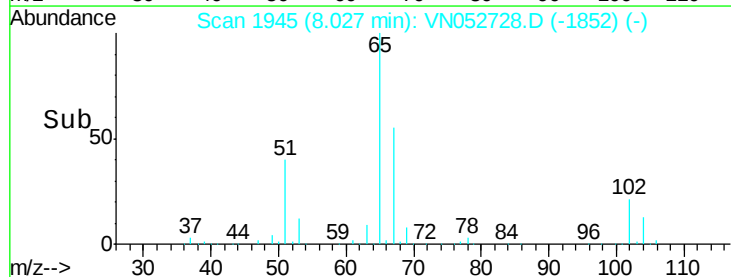
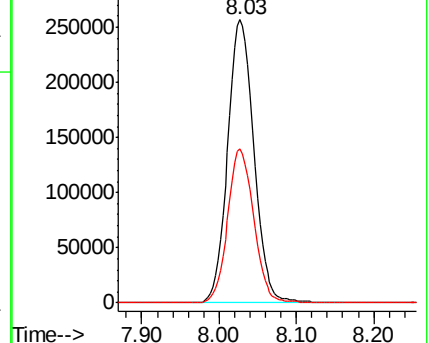
65 100

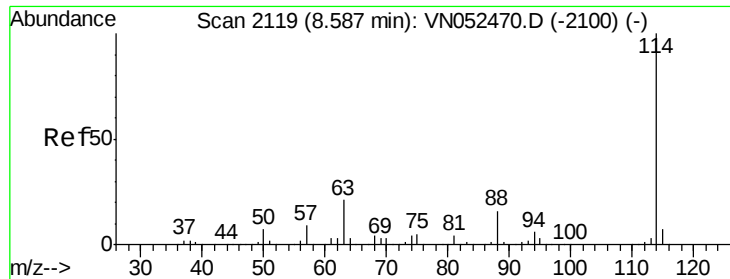
67 54.1 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

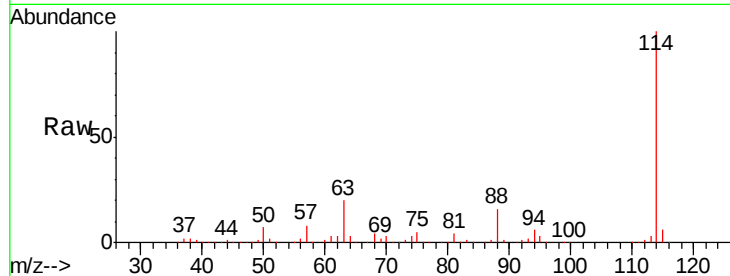




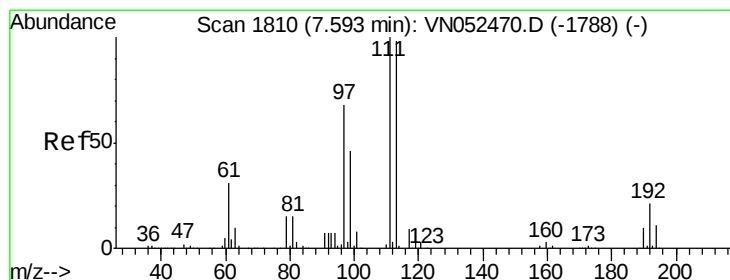
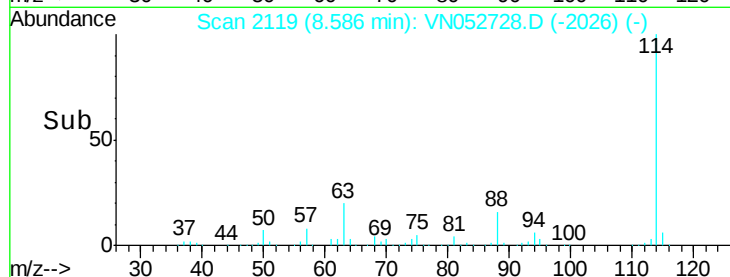
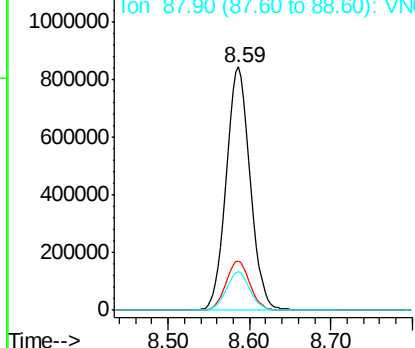
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN052728.D  
 Acq: 7 Dec 2018 15:52

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 TW-3

Tgt Ion:114 Resp: 1751508  
 Ion Ratio Lower Upper  
 114 100  
 63 20.2 0.0 41.8  
 88 15.9 0.0 31.6

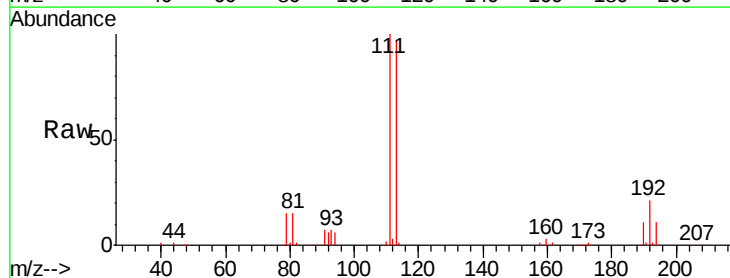


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

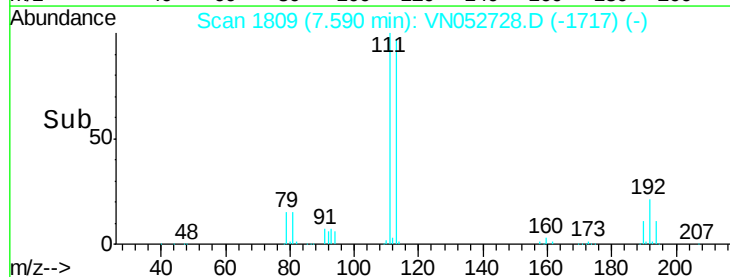
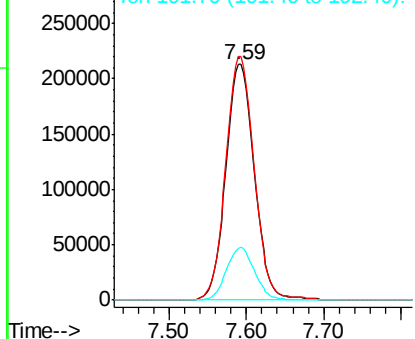


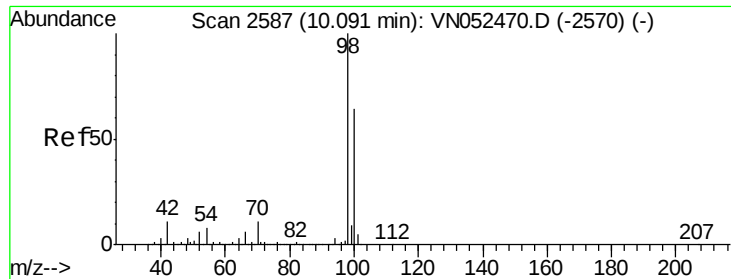
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. -0.00 min  
 Lab File: VN052728.D  
 Acq: 7 Dec 2018 15:52

Tgt Ion:113 Resp: 545772  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 82.0 123.0  
 192 21.9 17.0 25.6



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: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA\_N

ClientSampled :

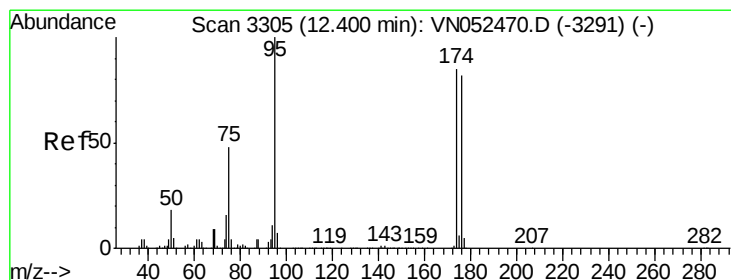
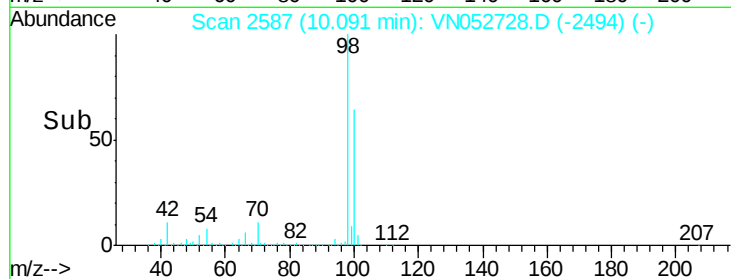
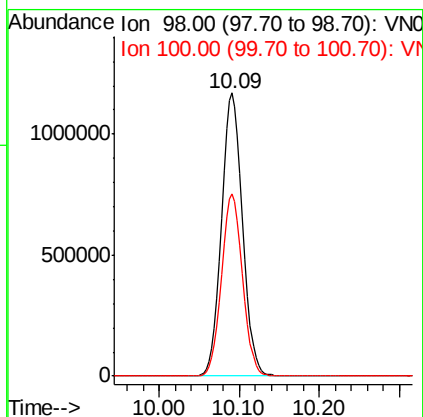
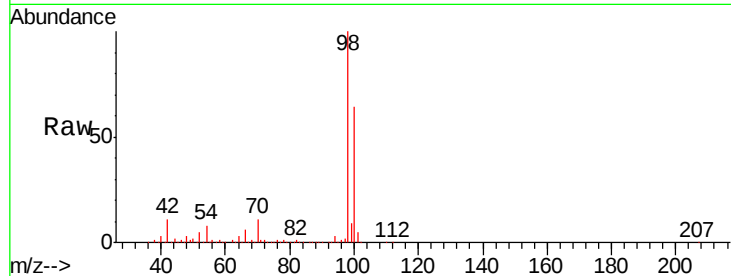
TW-3

Tgt Ion: 98 Resp: 2127294

Ion Ratio Lower Upper

98 100

100 64.3 51.3 76.9



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

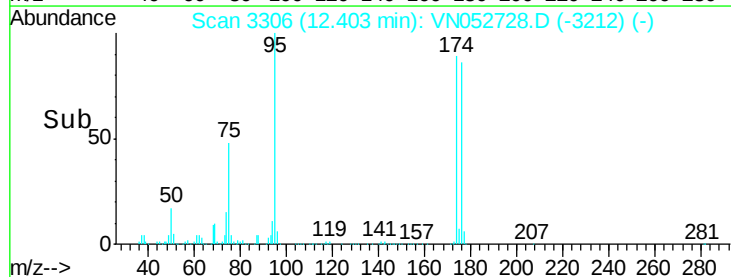
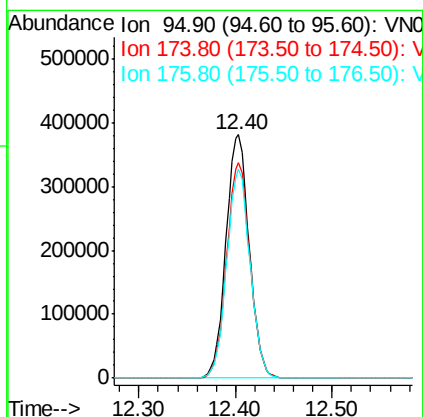
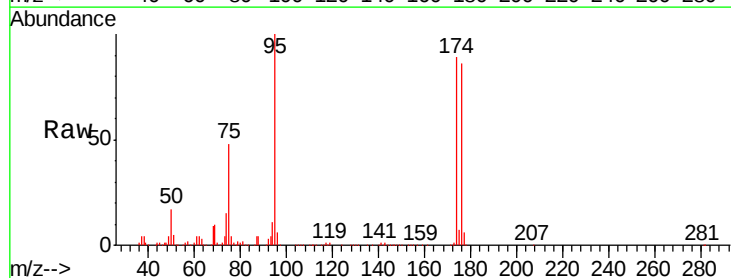
Tgt Ion: 95 Resp: 636902

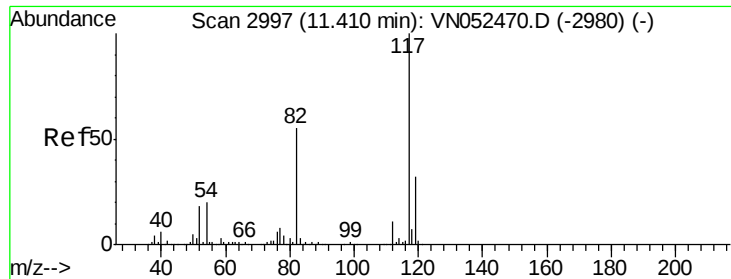
Ion Ratio Lower Upper

95 100

174 88.5 0.0 173.0

176 85.5 0.0 166.2

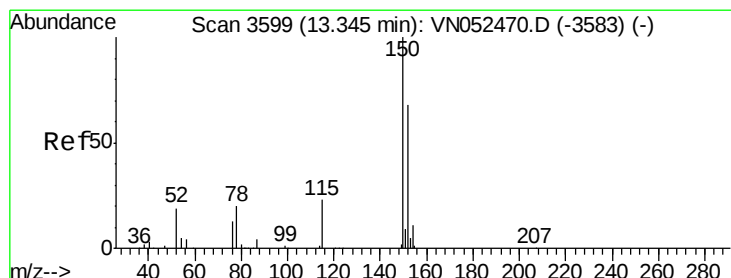
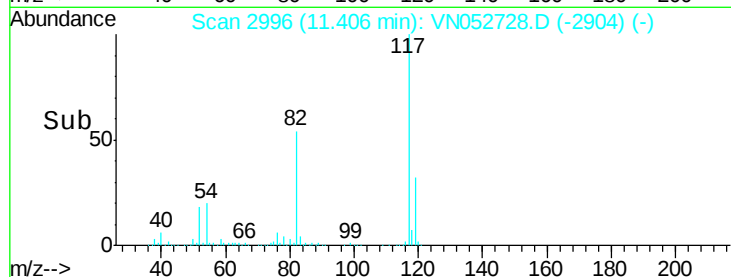
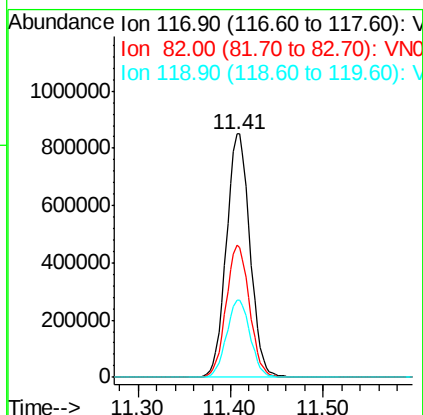
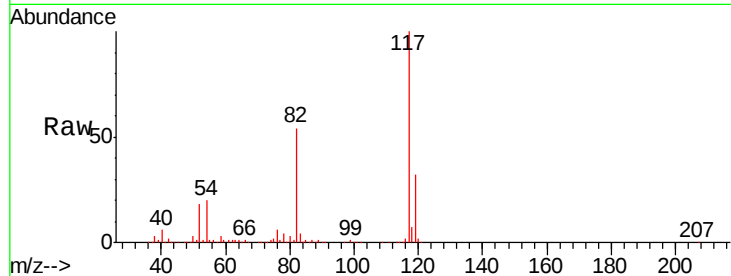




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN052728.D  
Acq: 7 Dec 2018 15:52

Instrument :  
MSVOA\_N  
ClientSampled :  
TW-3

Tgt Ion:117 Resp: 1497050  
Ion Ratio Lower Upper  
117 100  
82 54.2 43.6 65.4  
119 31.9 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. -0.00 min  
Lab File: VN052728.D  
Acq: 7 Dec 2018 15:52

Tgt Ion:152 Resp: 524651  
Ion Ratio Lower Upper  
152 100  
115 57.3 28.4 85.2  
150 157.5 0.0 346.0

