

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\  
 Data File : VN050645.D  
 Acq On : 15 Aug 2018 11:06  
 Operator : MD\SY  
 Sample : J4469-04DL 10X  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 959-IW-16(19)DL

Quant Time: Aug 16 02:16:35 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

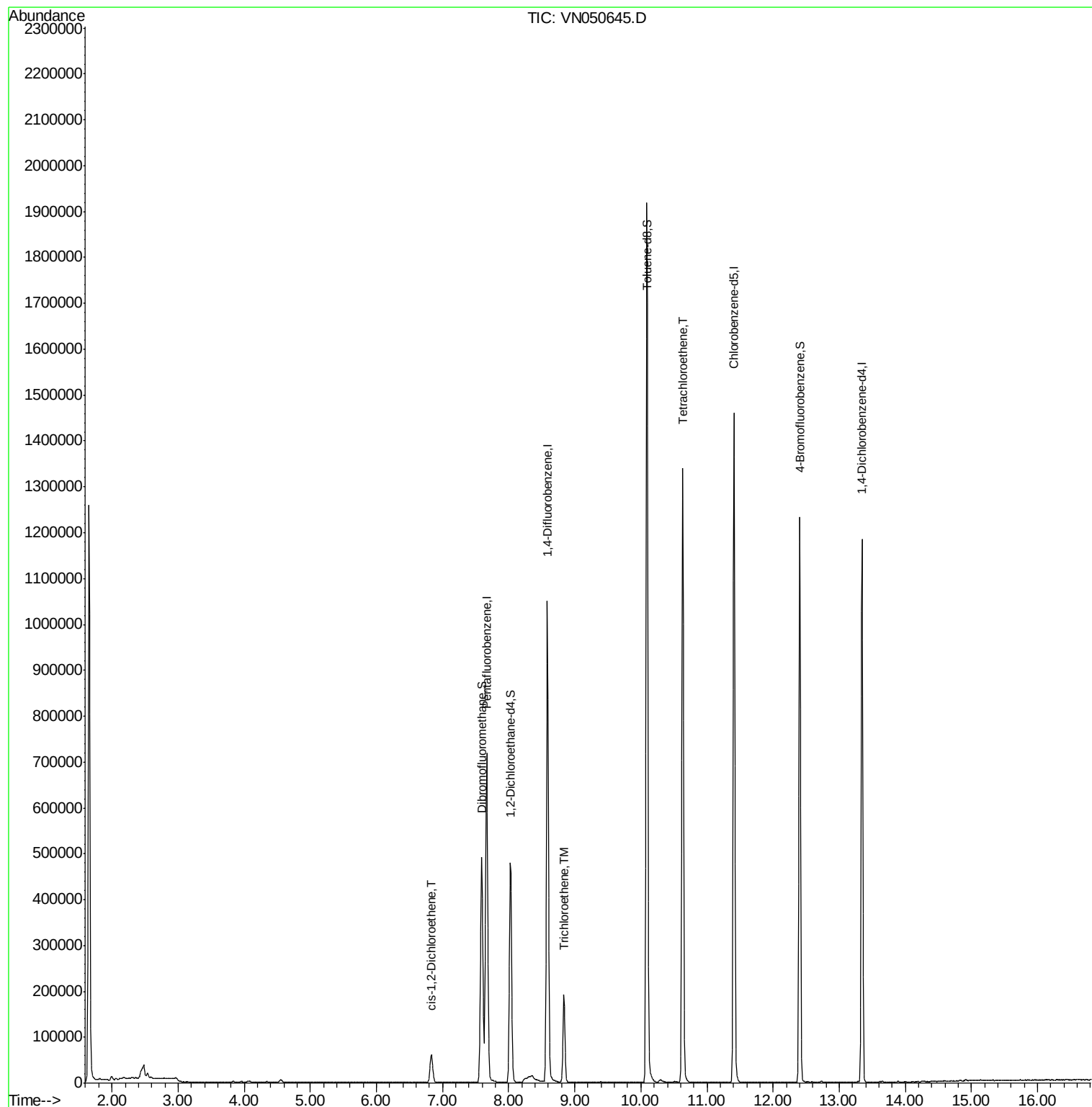
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 7.67  | 168  | 618124   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59  | 114  | 967861   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 895108   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 339382   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 408518   | 52.43 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.86% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 379857   | 49.16 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.32%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1393701  | 47.92 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.84%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 411053   | 42.79 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 85.58%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 27) cis-1,2-Dichloroethene  | 6.83  | 96   | 39337    | 4.86  | ug/l    | 91       |
| 44) Trichloroethene         | 8.83  | 130  | 74037    | 8.43  | ug/l    | 99       |
| 64) Tetrachloroethene       | 10.63 | 164  | 341183   | 41.04 | ug/l    | 98       |

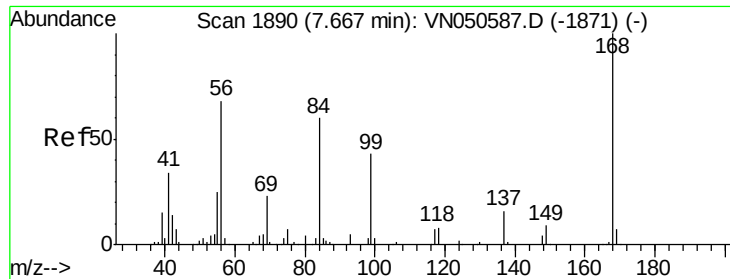
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN081518\  
Data File : VN050645.D  
Acq On : 15 Aug 2018 11:06  
Operator : MD\SY  
Sample : J4469-04DL 10X  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
959-IW-16(19)DL

Quant Time: Aug 16 02:16:35 2018  
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# 1890

Delta R.T. -0.00 min

Lab File: VN050645.D

Acq: 15 Aug 2018 11:06

Instrument :

MSVOA\_N

ClientSampleId :

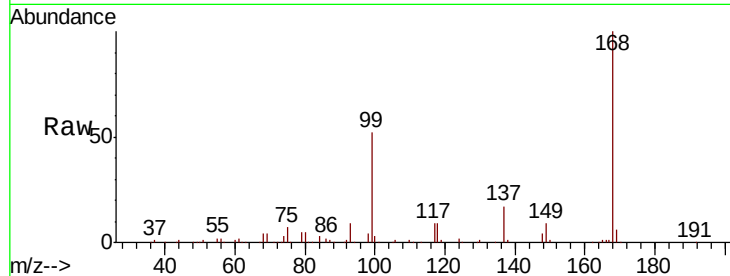
959-IW-16(19)DL

Tot Ion:168 Resp: 618124

Ion Ratio Lower Upper

168 100

99 51.8 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

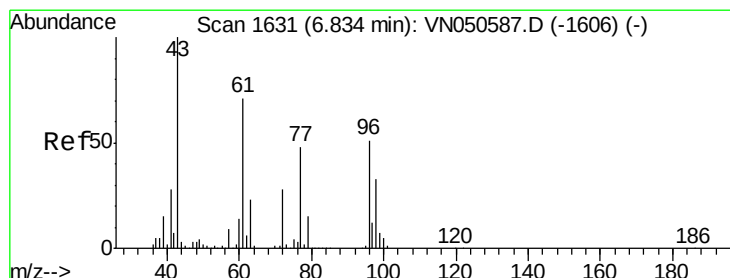
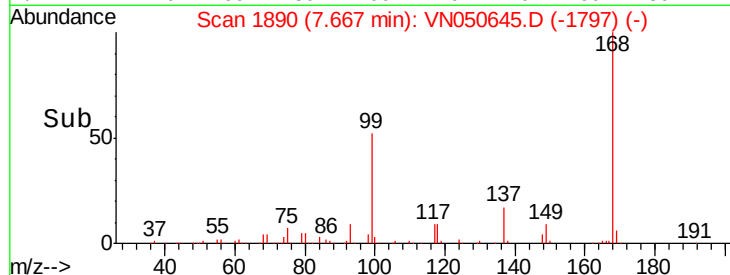
100000

50000

0

7.60 7.70

Time-->



#27

cis-1,2-Dichloroethene

Concen: 4.86 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VN050645.D

Acq: 15 Aug 2018 11:06

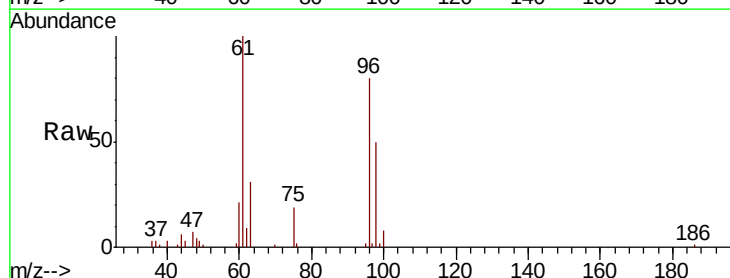
Tgt Ion: 96 Resp: 39337

Ion Ratio Lower Upper

96 100

61 124.0 0.0 278.2

98 63.2 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VN050587.D (-1606) (-)

Ion 60.90 (60.60 to 61.60): VN050587.D (-1606) (-)

Ion 97.90 (97.60 to 98.60): VN050587.D (-1606) (-)

6.83

20000

15000

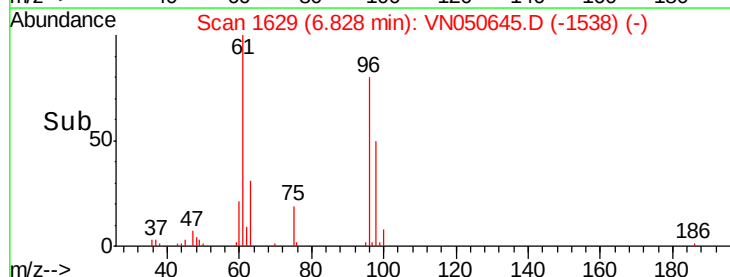
10000

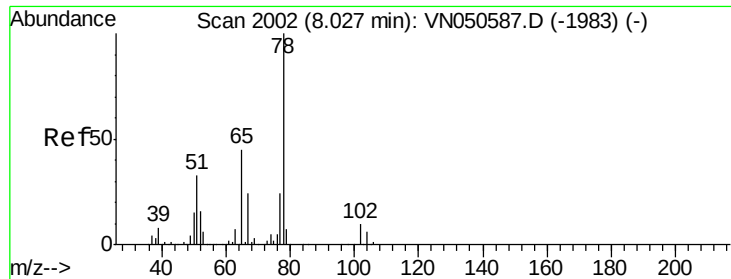
5000

0

6.70 6.80 6.90

Time-->

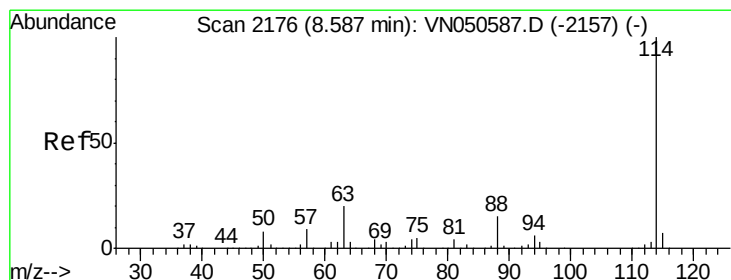
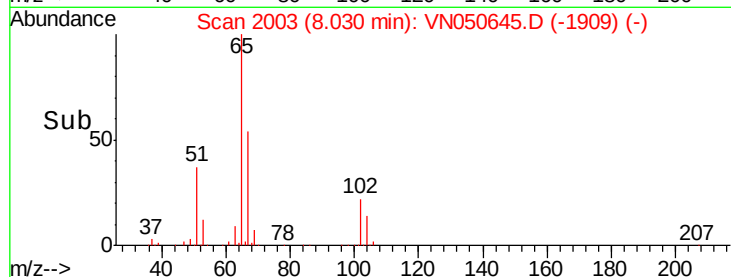
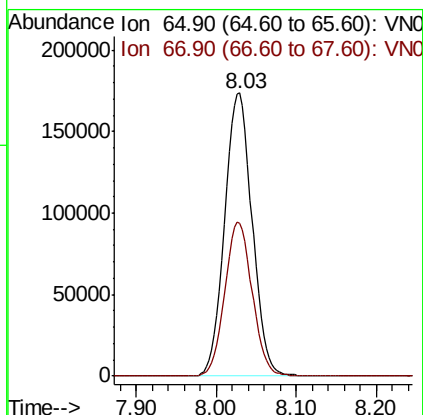
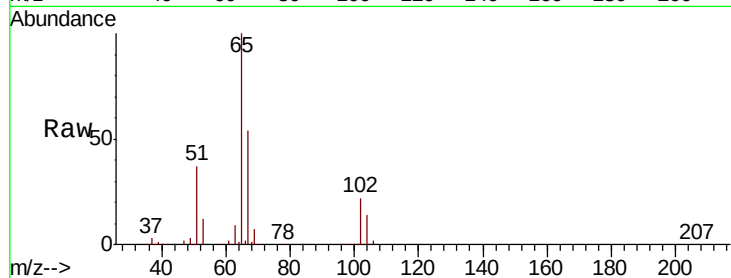




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.43 ug/l  
 RT: 8.03 min Scan# 2003  
 Delta R.T. 0.00 min  
 Lab File: VN050645.D  
 Acq: 15 Aug 2018 11:06

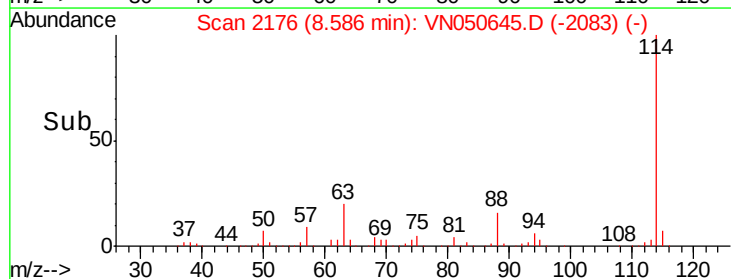
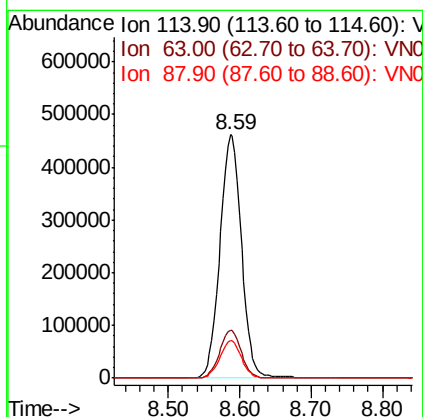
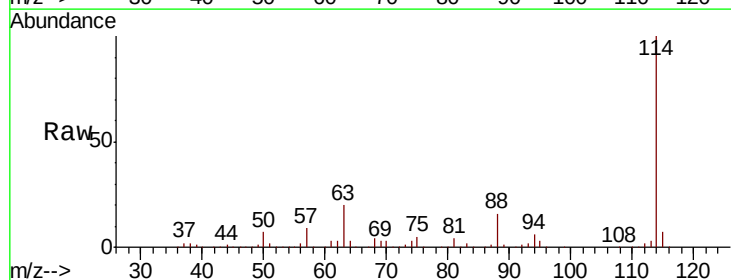
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 959-IW-16(19)DL

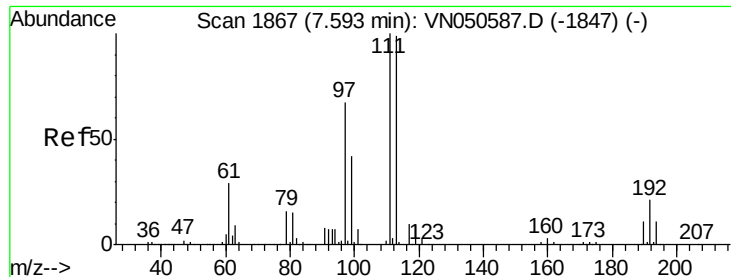
Tot Ion: 65 Resp: 408518  
 Ion Ratio Lower Upper  
 65 100  
 67 54.0 0.0 109.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2176  
 Delta R.T. -0.00 min  
 Lab File: VN050645.D  
 Acq: 15 Aug 2018 11:06

Tgt Ion: 114 Resp: 967861  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 40.0  
 88 15.6 0.0 30.8

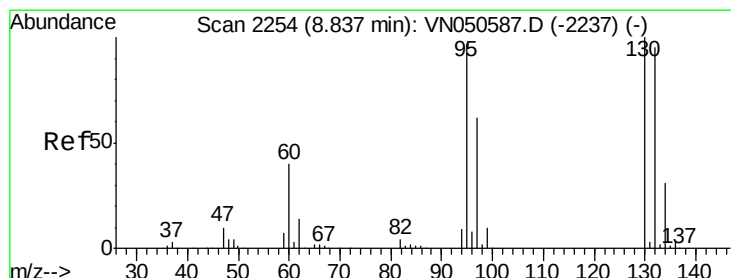
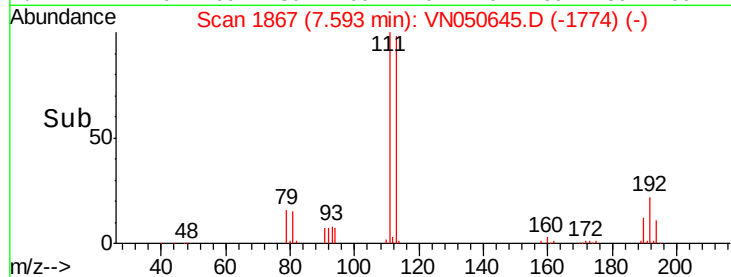
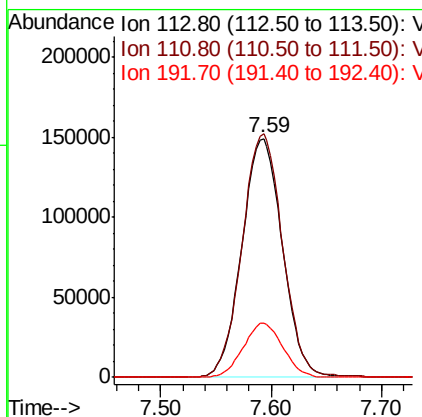
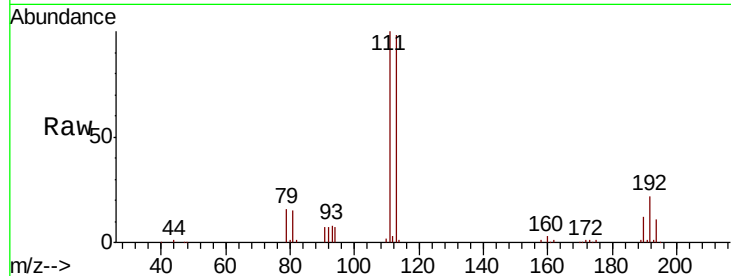




#35  
 Dibromofluoromethane  
 Concen: 49.16 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. -0.00 min  
 Lab File: VN050645.D  
 Acq: 15 Aug 2018 11:06

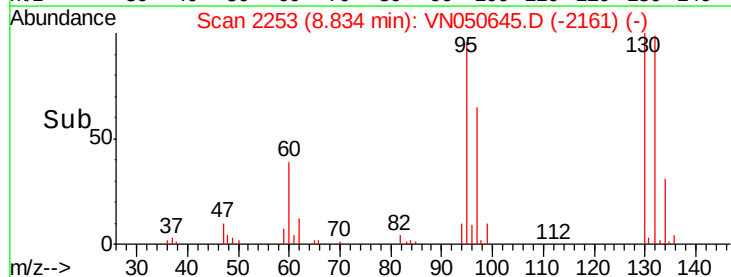
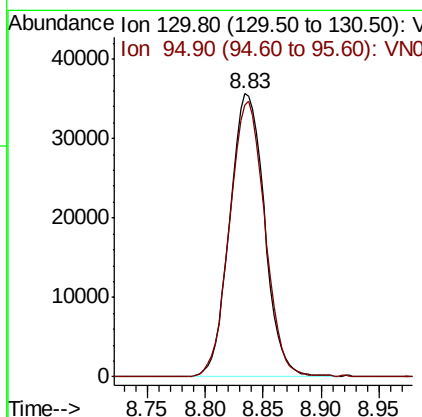
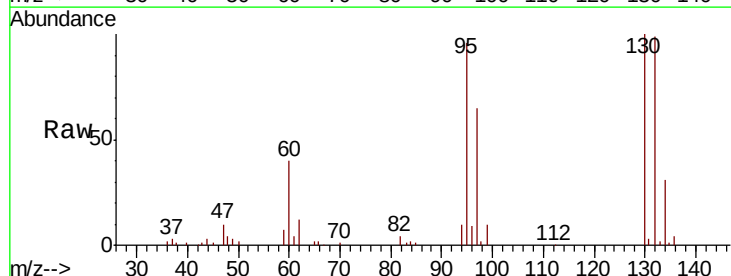
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 959-IW-16(19)DL

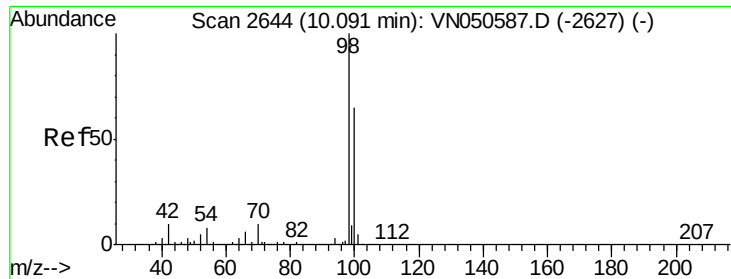
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.2 | 81.0  | 121.6 |
| 192     | 22.3  | 17.6  | 26.4  |



#44  
 Trichloroethene  
 Concen: 8.43 ug/l  
 RT: 8.83 min Scan# 2253  
 Delta R.T. -0.00 min  
 Lab File: VN050645.D  
 Acq: 15 Aug 2018 11:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 96.1  | 0.0   | 193.8 |





#50

Toluene-d8

Concen: 47.92 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050645.D

Acq: 15 Aug 2018 11:06

Instrument :

MSVOA\_N

ClientSampleId :

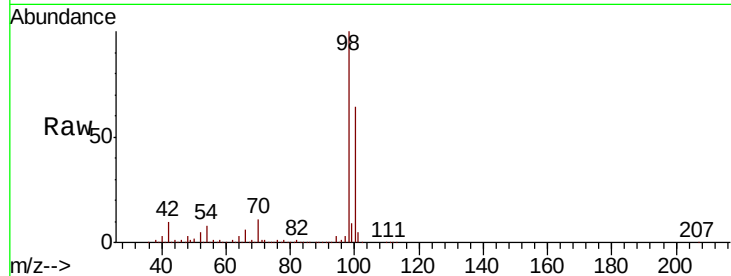
959-IW-16(19)DL

Tot Ion: 98 Resp: 1393701

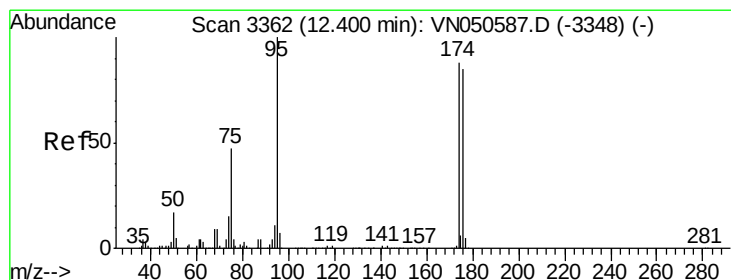
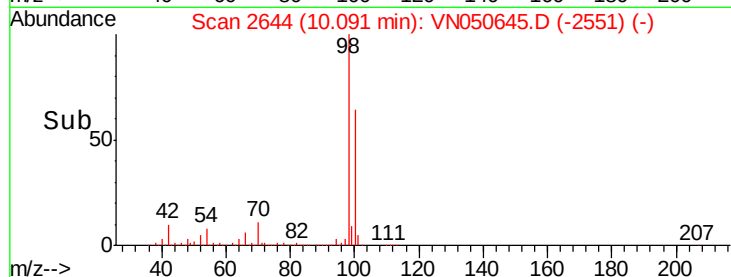
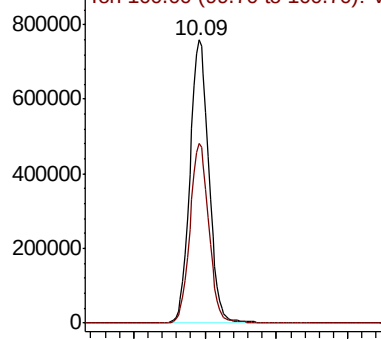
Ion Ratio Lower Upper

98 100

100 63.2 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN050587.D (-2627) (-)



#62

4-Bromofluorobenzene

Concen: 42.79 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050645.D

Acq: 15 Aug 2018 11:06

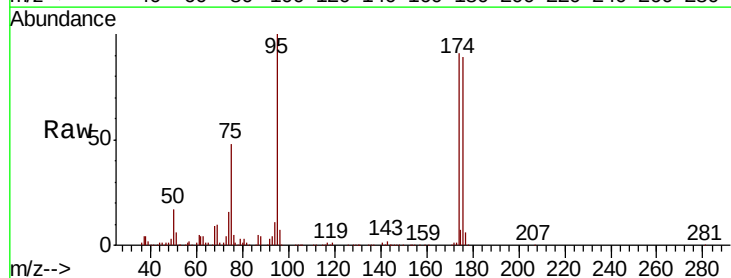
Tgt Ion: 95 Resp: 411053

Ion Ratio Lower Upper

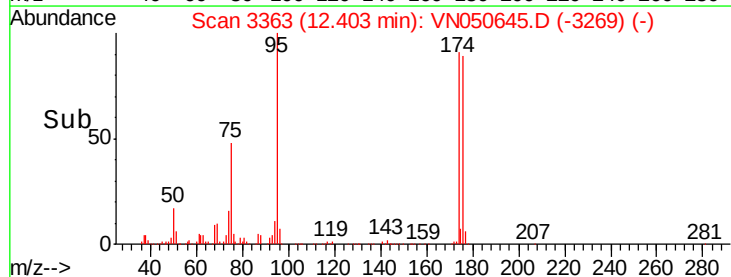
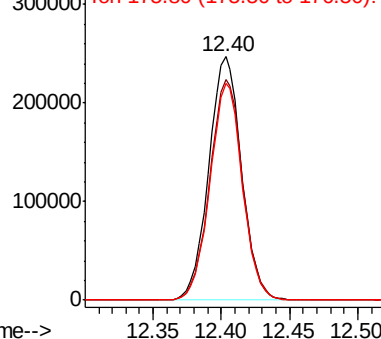
95 100

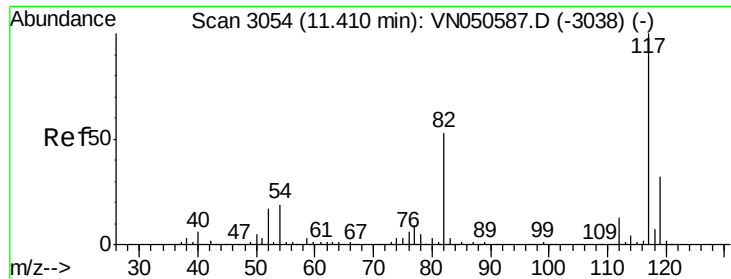
174 91.3 0.0 177.8

176 88.1 0.0 175.0



Abundance Ion 94.90 (94.60 to 95.60): VN050587.D (-3348) (-)

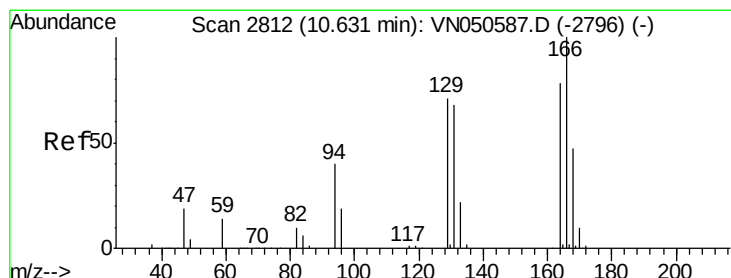
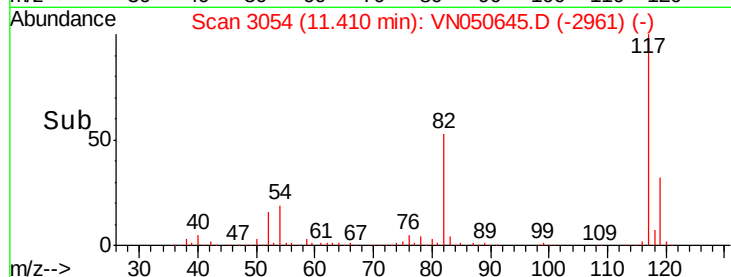
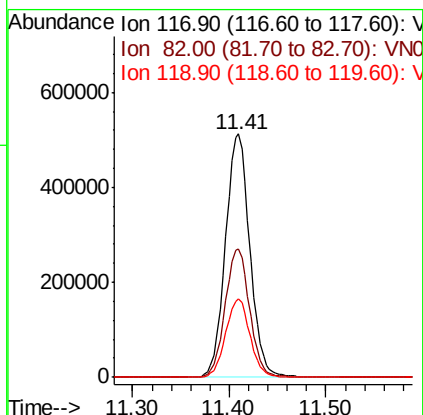
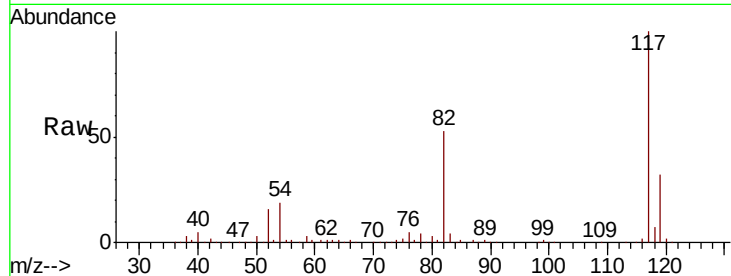




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. -0.00 min  
Lab File: VN050645.D  
Acq: 15 Aug 2018 11:06

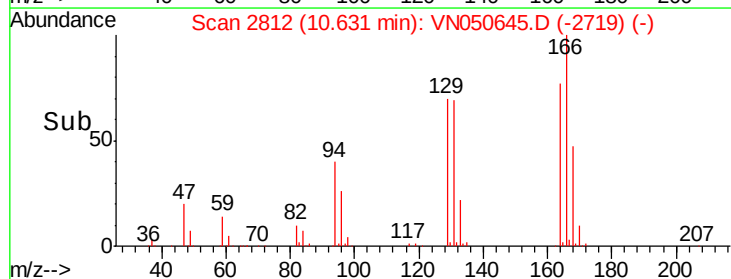
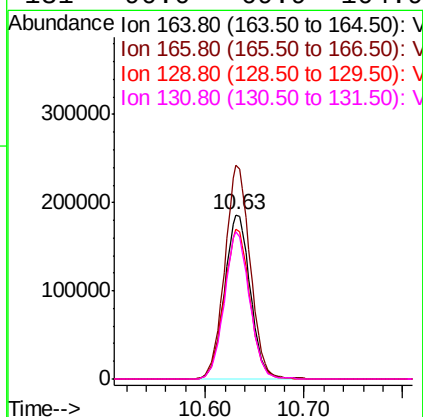
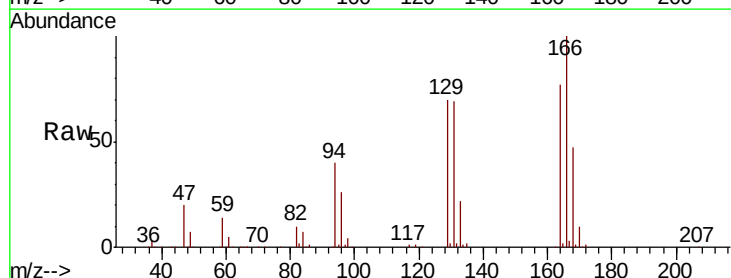
Instrument :  
MSVOA\_N  
ClientSampleId :  
959-IW-16(19)DL

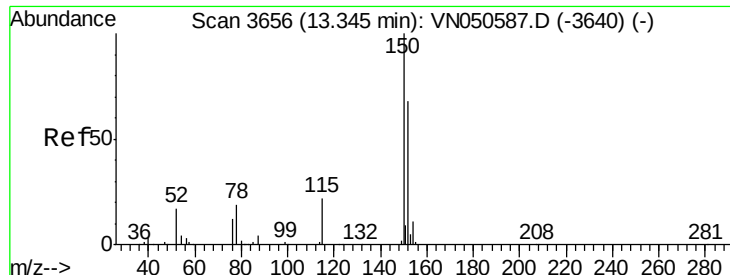
Tot Ion:117 Resp: 895108  
Ion Ratio Lower Upper  
117 100  
82 52.8 42.4 63.6  
119 32.2 25.8 38.8



#64  
Tetrachloroethene  
Concen: 41.04 ug/l  
RT: 10.63 min Scan# 2812  
Delta R.T. -0.00 min  
Lab File: VN050645.D  
Acq: 15 Aug 2018 11:06

Tgt Ion:164 Resp: 341183  
Ion Ratio Lower Upper  
164 100  
166 130.2 102.1 153.1  
129 91.0 72.7 109.1  
131 90.0 69.9 104.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050645.D

Acq: 15 Aug 2018 11:06

Instrument :

MSVOA\_N

ClientSampleId :

959-IW-16(19)DL

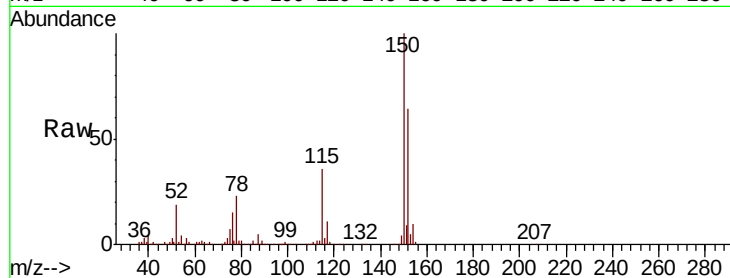
Tot Ion:152 Resp: 339382

Ion Ratio Lower Upper

152 100

115 56.4 28.1 84.2

150 156.1 0.0 347.8



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

