

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061720\  
 Data File : VN061868.D  
 Acq On : 17 Jun 2020 23:52  
 Operator : JC/MD  
 Sample : L3011-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB-20200611

Quant Time: Jun 18 06:49:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 17 01:19:44 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 136740   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 246013   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 236126   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 90505    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 7.99   | 65  | 88999    | 48.53 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.06%  |      |
| 35) Dibromofluoromethane    | 7.55   | 113 | 78814    | 50.08 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.16% |      |
| 50) Toluene-d8              | 10.06  | 98  | 306060   | 49.46 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.92%  |      |
| 62) 4-Bromofluorobenzene    | 12.37  | 95  | 99260    | 46.77 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.54%  |      |

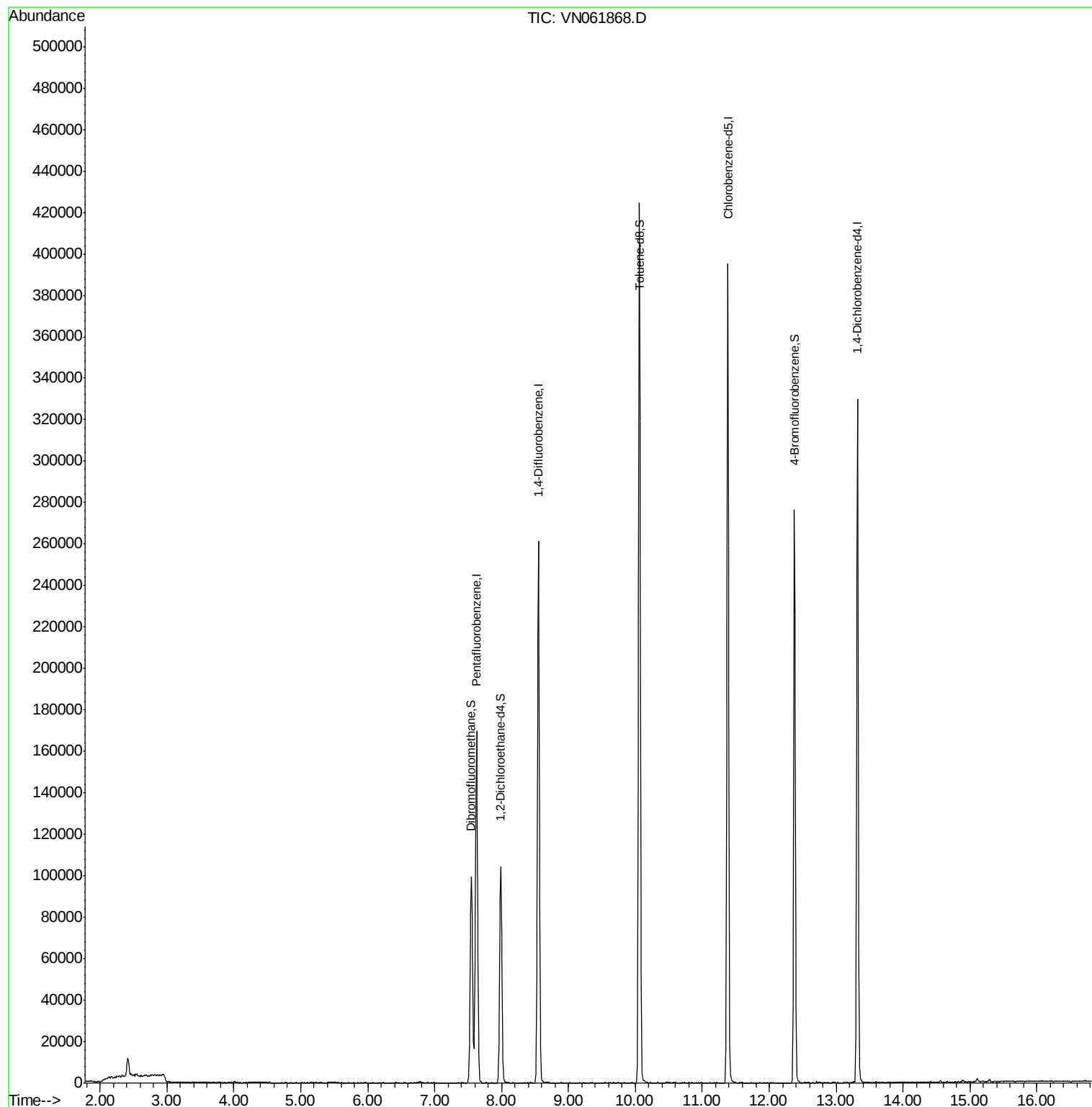
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

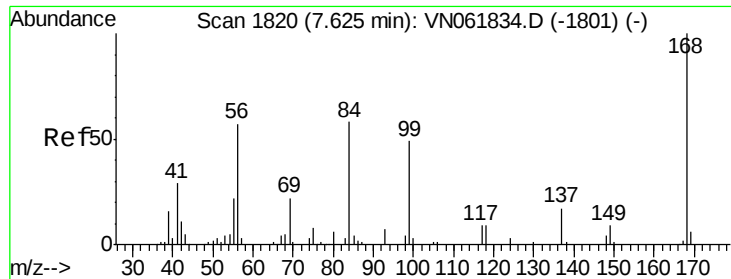
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TB-20200611

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Quant Title : SW846 8260  
QLast Update : Wed Jun 17 01:19:44 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061868.D

Acq: 17 Jun 2020 23:52

Instrument :

MSVOA\_N

ClientSampleId :

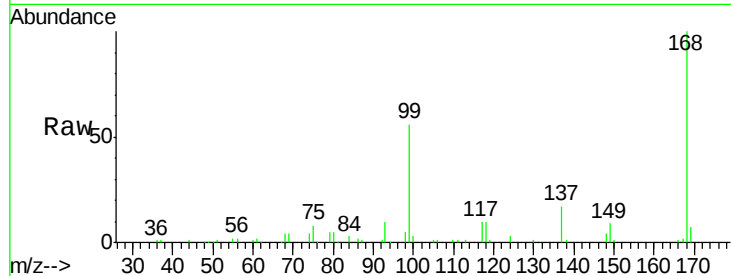
TB-20200611

Tot Ion:168 Resp: 136740

Ion Ratio Lower Upper

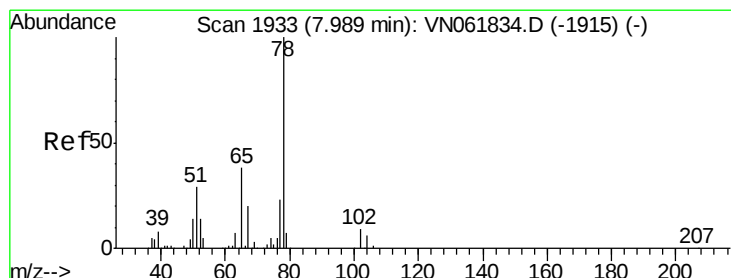
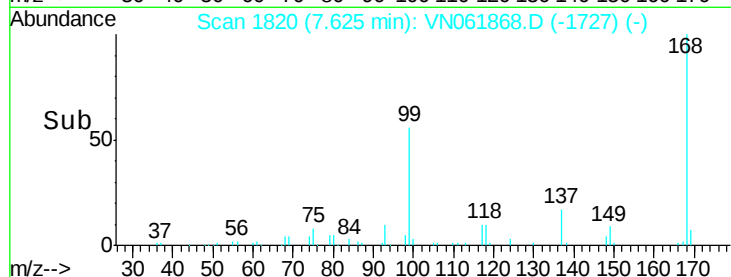
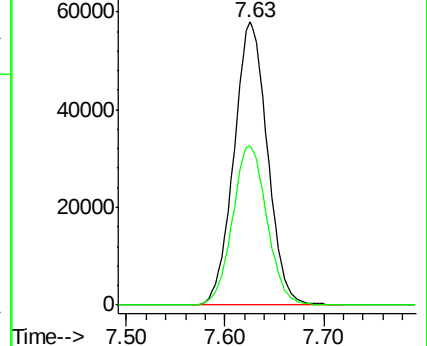
168 100

99 56.1 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 48.530 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN061868.D

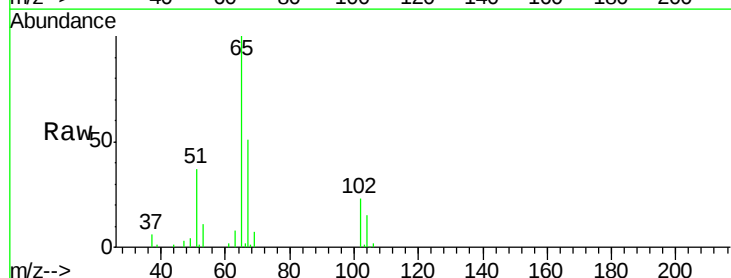
Acq: 17 Jun 2020 23:52

Tgt Ion: 65 Resp: 88999

Ion Ratio Lower Upper

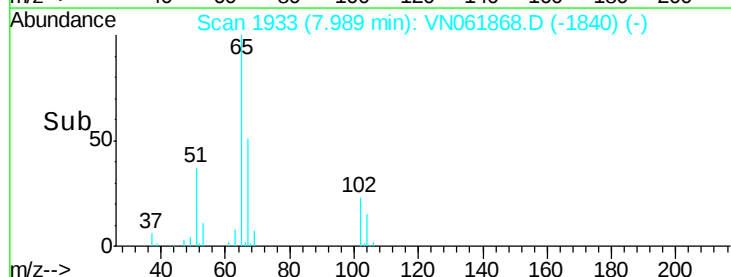
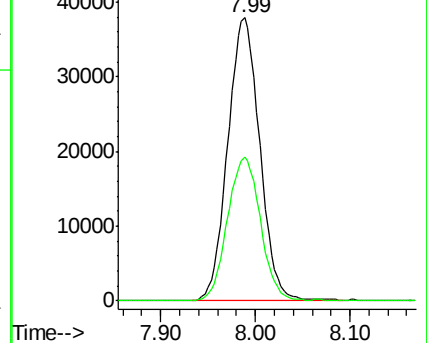
65 100

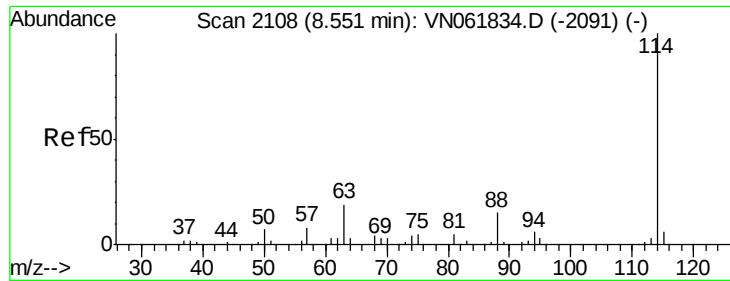
67 52.2 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

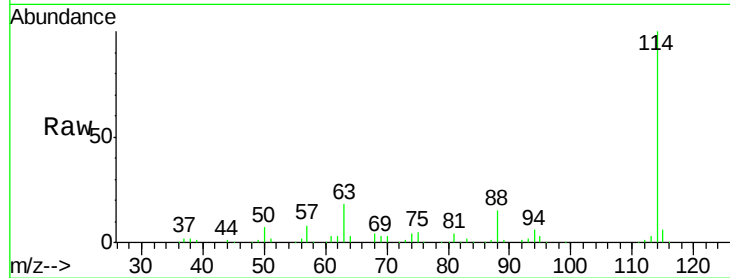




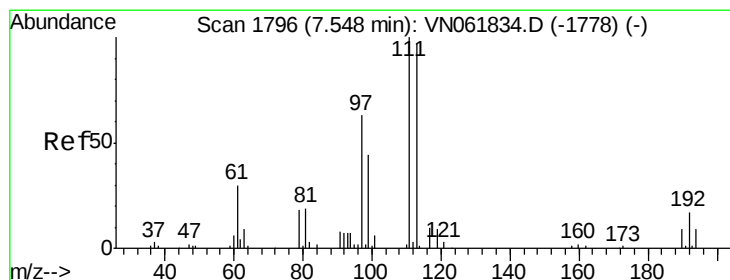
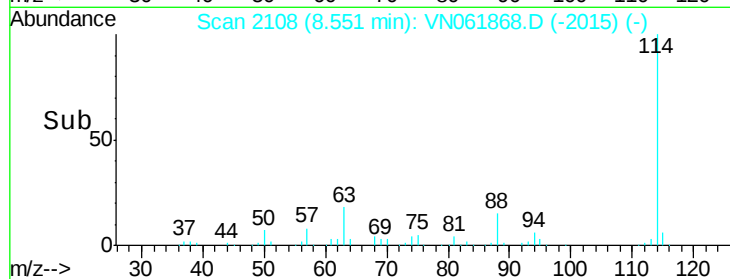
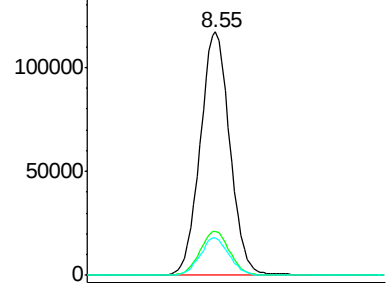
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.55 min Scan# 2108  
Delta R.T. -0.00 min  
Lab File: VN061868.D  
Acq: 17 Jun 2020 23:52

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-20200611

Tot Ion:114 Resp: 246013  
Ion Ratio Lower Upper  
114 100  
63 18.2 0.0 37.6  
88 15.2 0.0 31.0

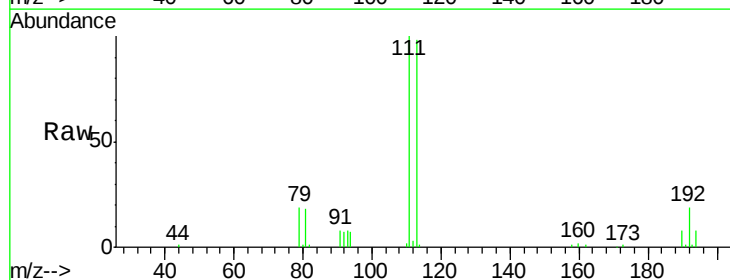


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

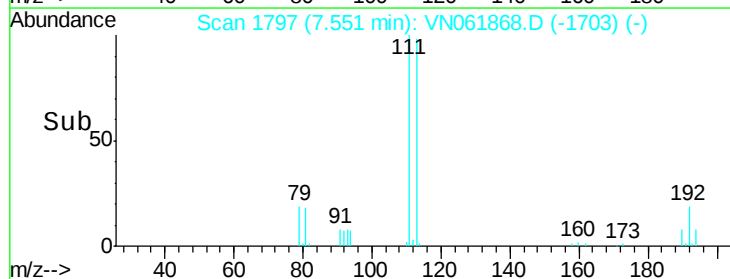
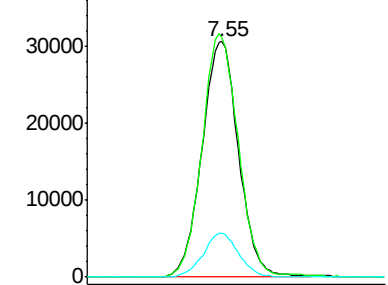


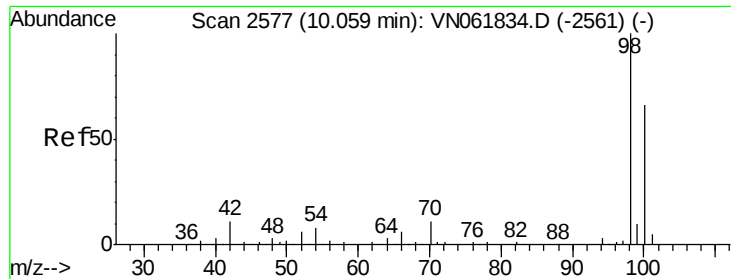
#35  
Dibromofluoromethane  
Concen: 50.077 ug/l  
RT: 7.55 min Scan# 1797  
Delta R.T. 0.00 min  
Lab File: VN061868.D  
Acq: 17 Jun 2020 23:52

Tgt Ion:113 Resp: 78814  
Ion Ratio Lower Upper  
113 100  
111 102.9 83.7 125.5  
192 17.9 13.9 20.9



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: 49.464 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061868.D

Acq: 17 Jun 2020 23:52

Instrument :

MSVOA\_N

ClientSampleId :

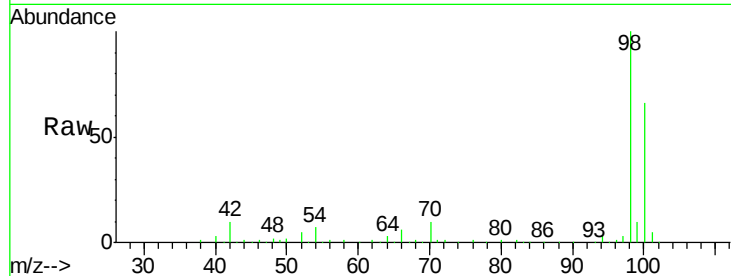
TB-20200611

Tot Ion: 98 Resp: 306060

Ion Ratio Lower Upper

98 100

100 65.0 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061834.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061834.D (-2561) (-)

10.06

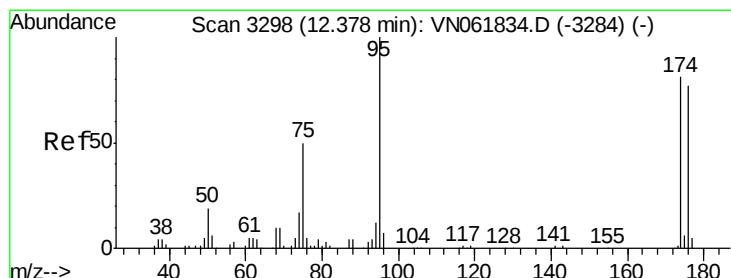
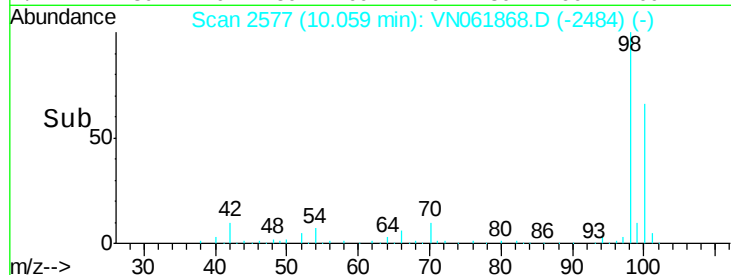
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 46.768 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VN061868.D

Acq: 17 Jun 2020 23:52

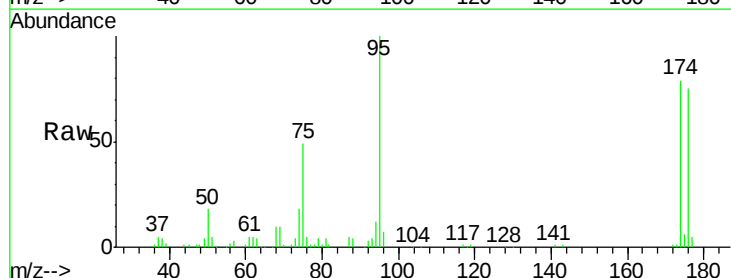
Tgt Ion: 95 Resp: 99260

Ion Ratio Lower Upper

95 100

174 80.0 0.0 158.6

176 76.6 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)

12.37

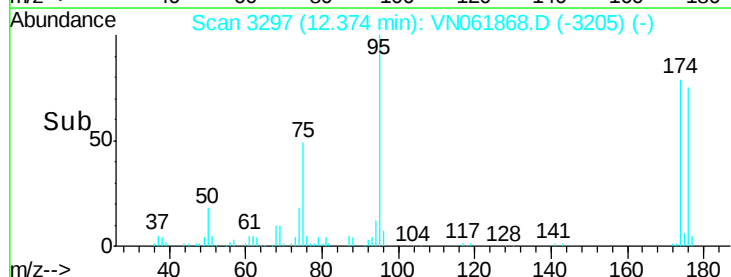
60000

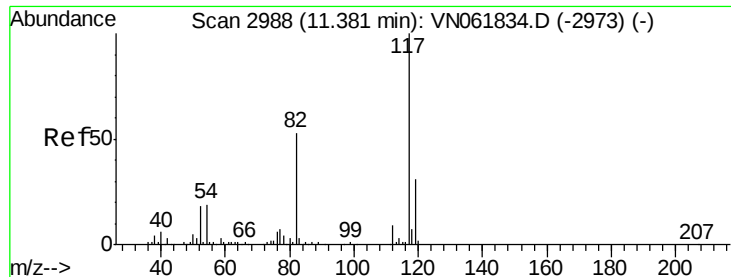
40000

20000

0

Time-->

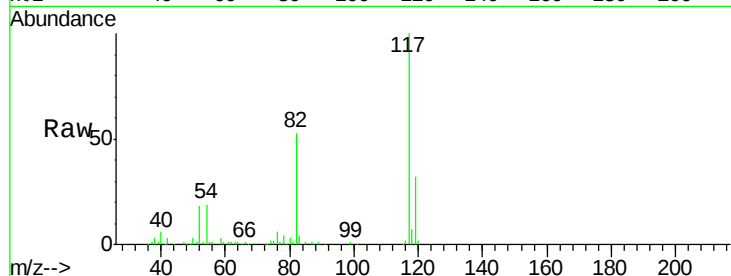




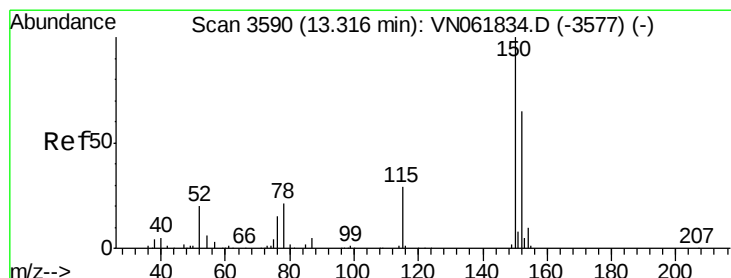
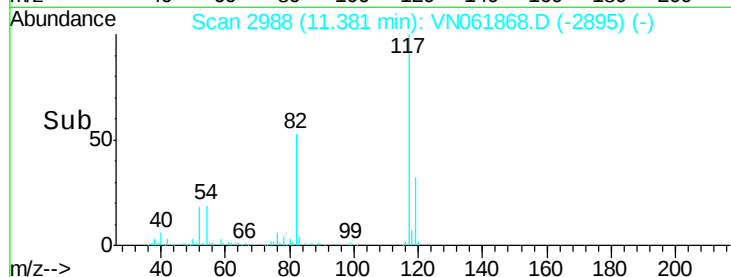
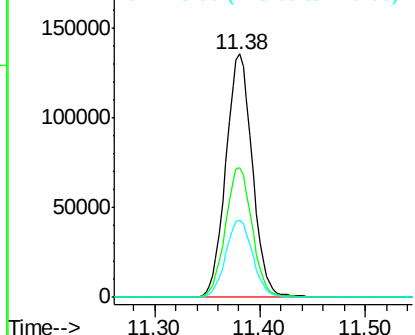
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. -0.00 min  
Lab File: VN061868.D  
Acq: 17 Jun 2020 23:52

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-20200611

Tot Ion:117 Resp: 236126  
Ion Ratio Lower Upper  
117 100  
82 53.4 42.6 64.0  
119 31.6 24.7 37.1

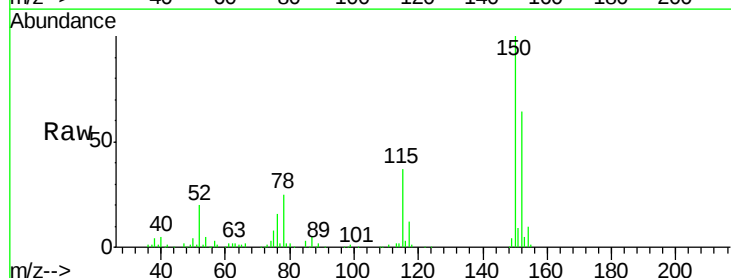


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3591  
Delta R.T. 0.00 min  
Lab File: VN061868.D  
Acq: 17 Jun 2020 23:52

Tgt Ion:152 Resp: 90505  
Ion Ratio Lower Upper  
152 100  
115 59.4 29.1 87.3  
150 159.8 0.0 347.6



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

