

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061618\  
 Data File : VN049270.D  
 Acq On : 15 Jun 2018 20:08  
 Operator : MD\SY  
 Sample : PB110255TB  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB110255TB

Quant Time: Jun 16 01:45:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:02:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1357016  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 2088700  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1703459  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 432217   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 856190   | 47.57 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.14% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 771763   | 45.67 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.34% |      |
| 50) Toluene-d8              | 10.09  | 98  | 2917623  | 45.34 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.68% |      |
| 62) 4-Bromofluorobenzene    | 12.41  | 95  | 685964   | 32.24 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 64.48% |      |

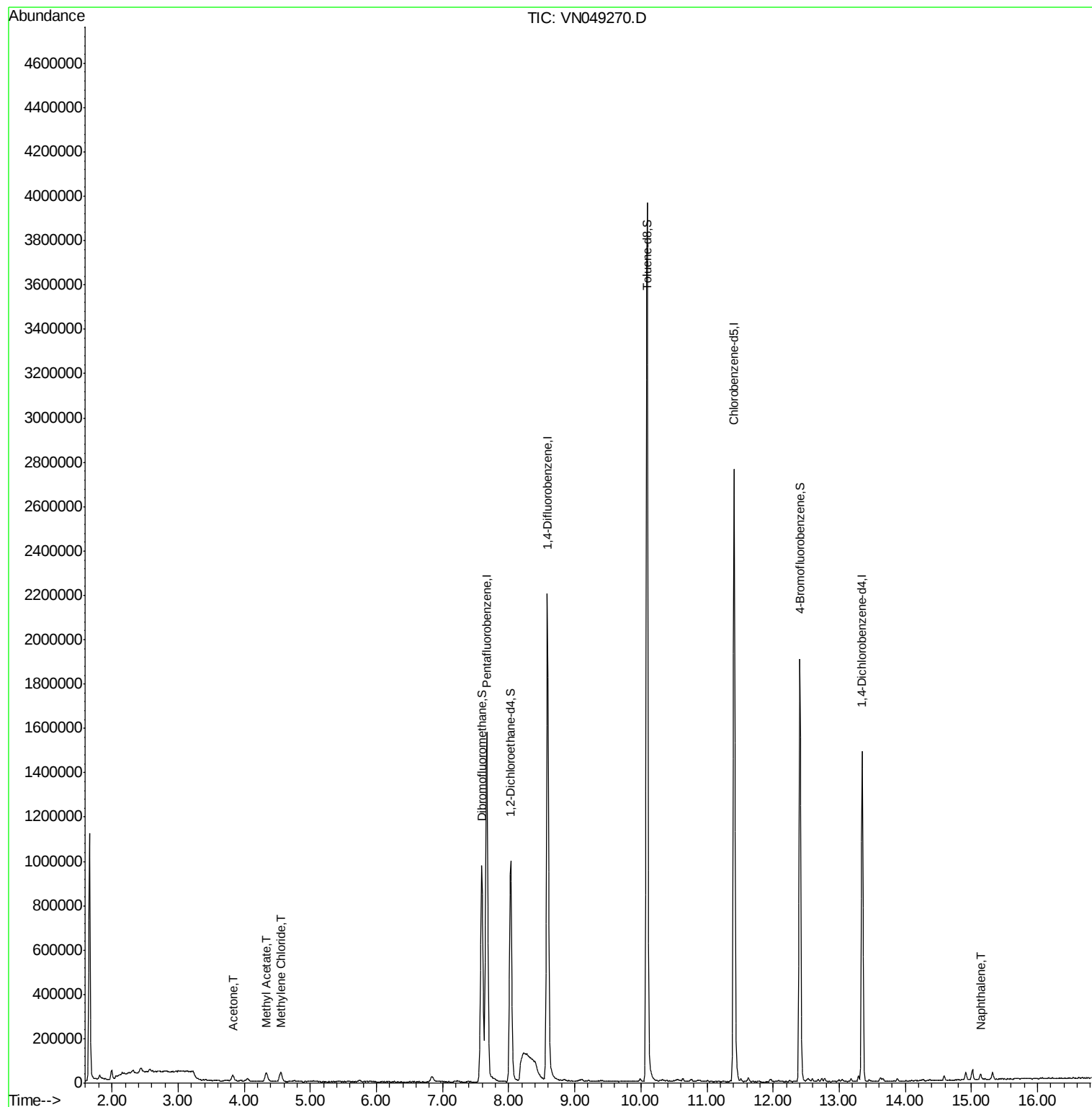
| Target Compounds       |       |     |       |       |        | Qvalue |
|------------------------|-------|-----|-------|-------|--------|--------|
| 16) Acetone            | 3.82  | 43  | 47819 | 10.94 | ug/l   | 99     |
| 18) Methyl Acetate     | 4.33  | 43  | 76324 | 5.73  | ug/l   | 95     |
| 20) Methylene Chloride | 4.55  | 84  | 29523 | 1.62  | ug/l # | 81     |
| 95) Naphthalene        | 15.14 | 128 | 20081 | 3.75  | ug/l # | 97     |

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

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Sample : PB110255TB  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB110255TB

Quant Time: Jun 16 01:45:02 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N061618W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 16 01:02:01 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: VN049270.D

Acq: 15 Jun 2018 20:08

Instrument :

MSVOA\_N

ClientSampleId :

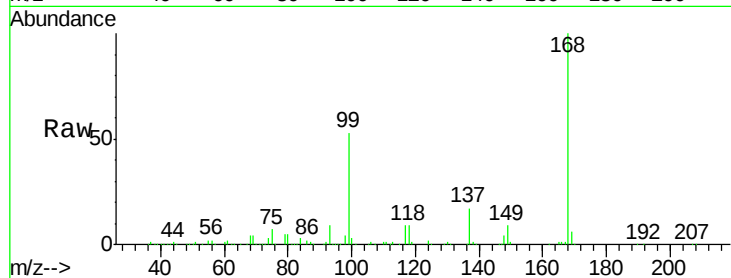
PB110255TB

Tot Ion:168 Resp: 1357016

Ion Ratio Lower Upper

168 100

99 52.6 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

600000

500000

400000

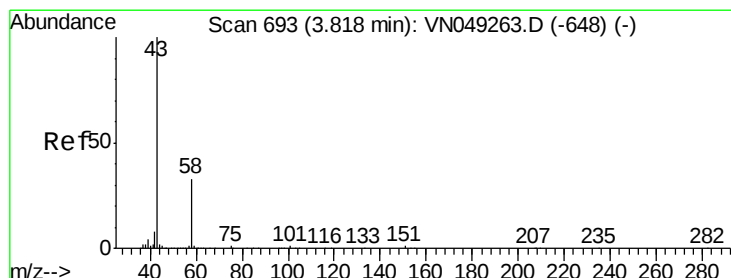
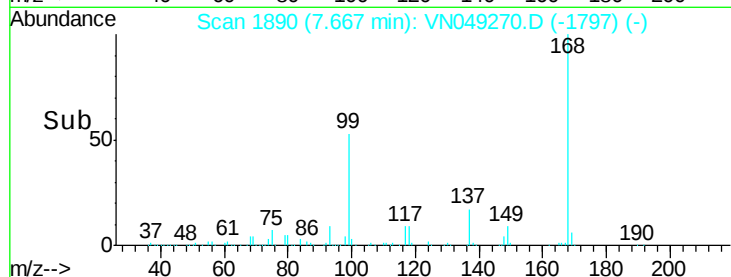
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 10.94 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049270.D

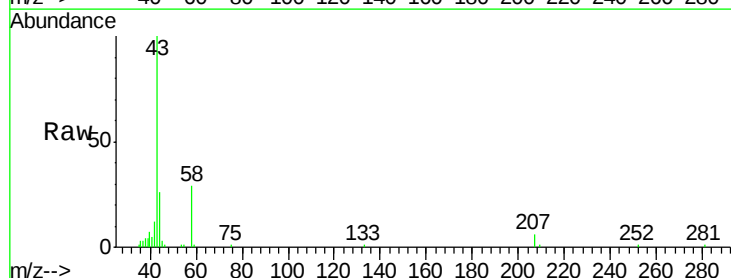
Acq: 15 Jun 2018 20:08

Tgt Ion: 43 Resp: 47819

Ion Ratio Lower Upper

43 100

58 27.6 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

20000

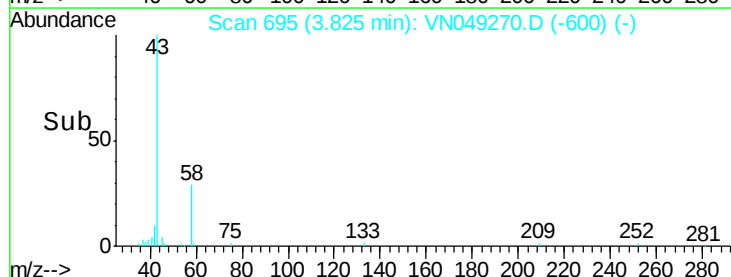
15000

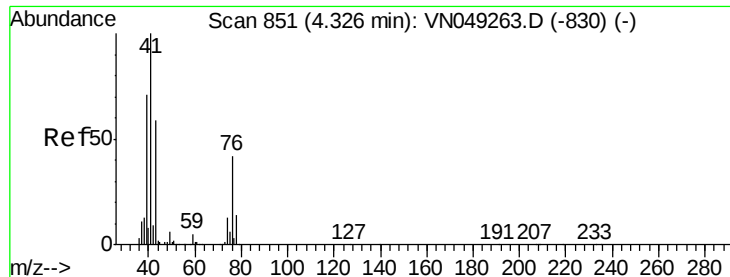
10000

5000

0

Time--> 3.70 3.80 3.90

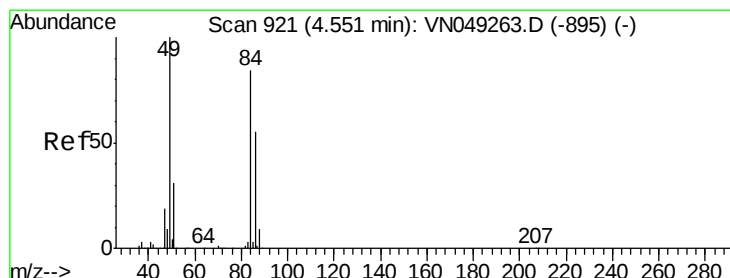
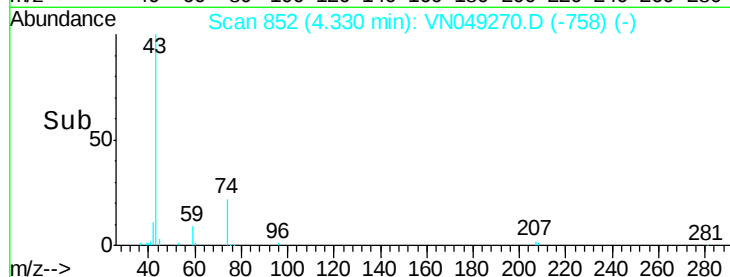
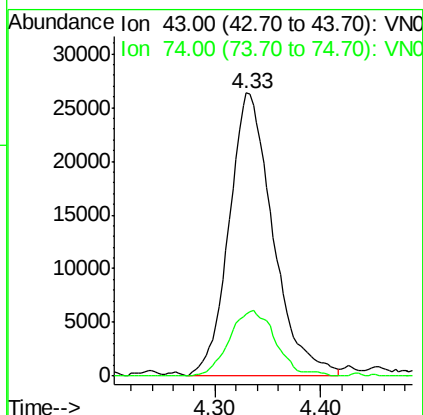
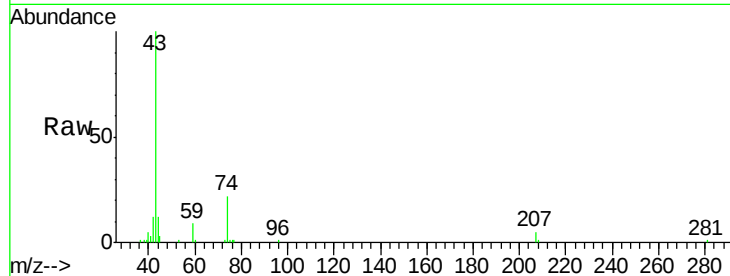




#18  
Methvl Acetate  
Concen: 5.73 ug/l  
RT: 4.33 min Scan# 852  
Delta R.T. 0.00 min  
Lab File: VN049270.D  
Acq: 15 Jun 2018 20:08

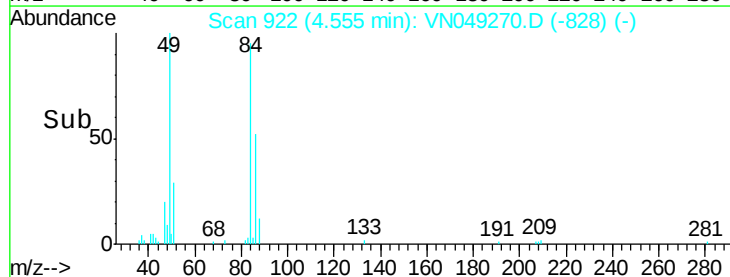
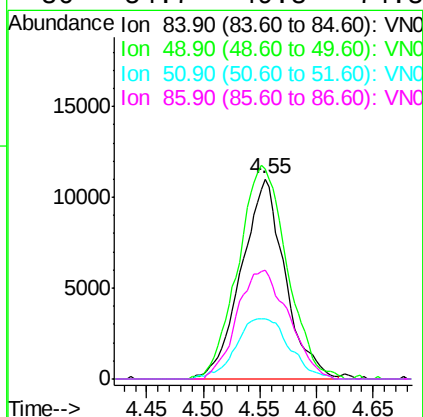
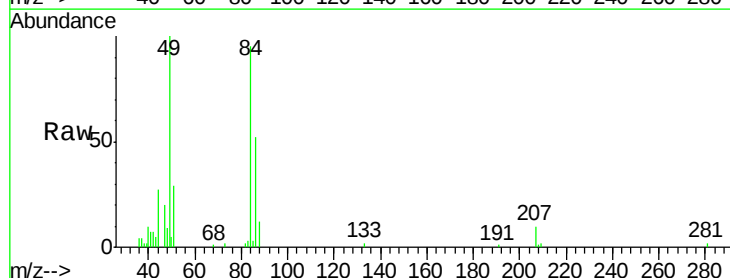
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB110255TB

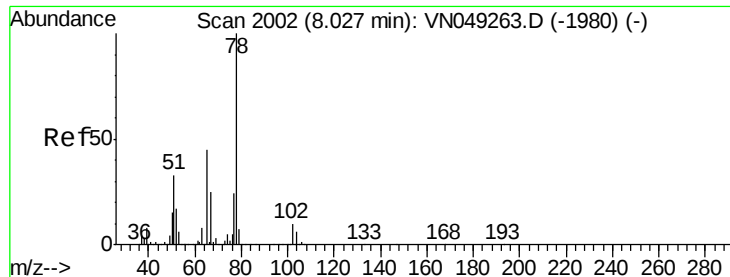
Tot Ion: 43 Resp: 76324  
Ion Ratio Lower Upper  
43 100  
74 24.1 17.4 26.0



#20  
Methylene Chloride  
Concen: 1.62 ug/l  
RT: 4.55 min Scan# 922  
Delta R.T. 0.00 min  
Lab File: VN049270.D  
Acq: 15 Jun 2018 20:08

Tgt Ion: 84 Resp: 29523  
Ion Ratio Lower Upper  
84 100  
49 105.3 106.9 160.3#  
51 30.3 32.7 49.1#  
86 54.7 49.8 74.8





#33

1,2-Dichloroethane-d4

Concen: 47.57 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049270.D

Acq: 15 Jun 2018 20:08

Instrument :

MSVOA\_N

ClientSampleId :

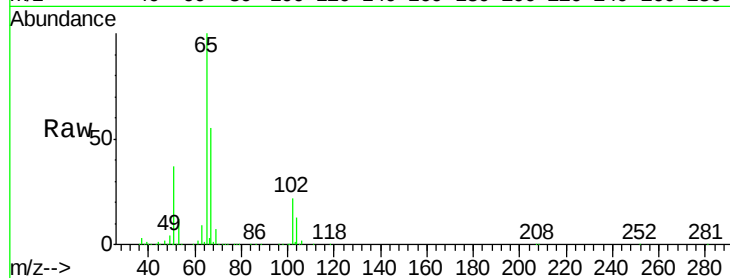
PB110255TB

Tot Ion: 65 Resp: 856190

Ion Ratio Lower Upper

65 100

67 54.2 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049270.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049270.D (-1909) (-)

8.03

400000

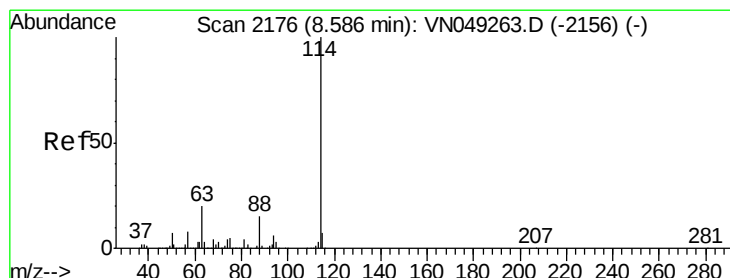
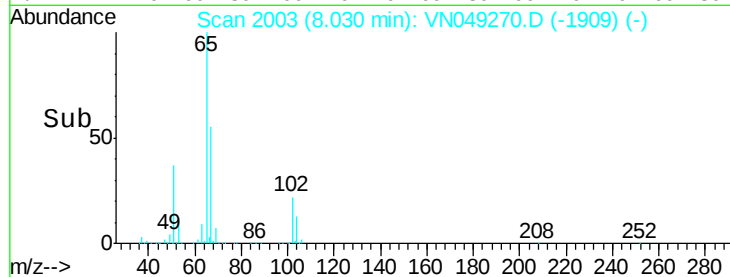
300000

200000

100000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049270.D

Acq: 15 Jun 2018 20:08

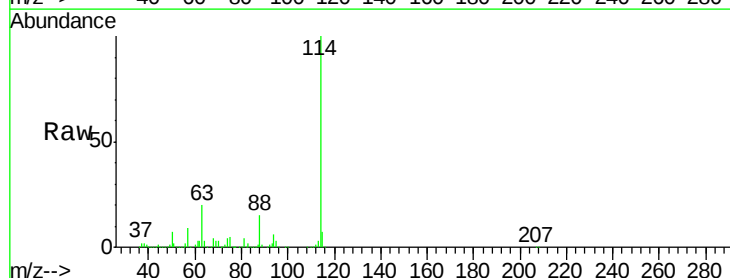
Tgt Ion: 114 Resp: 2088700

Ion Ratio Lower Upper

114 100

63 20.1 0.0 44.4

88 15.0 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN049270.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049270.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049270.D (-2083) (-)

8.59

1200000

1000000

800000

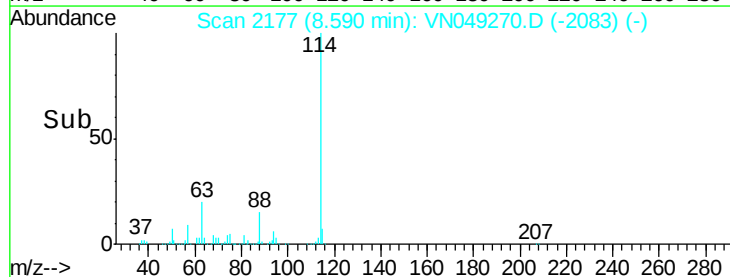
600000

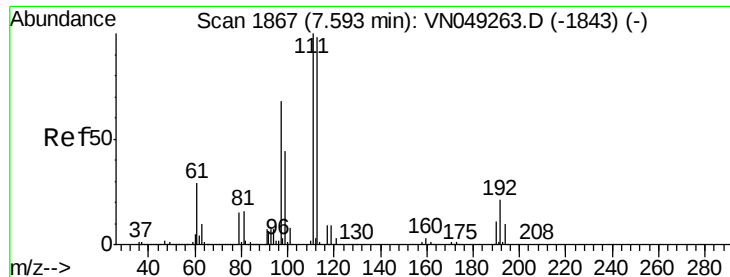
400000

200000

0

Time-->

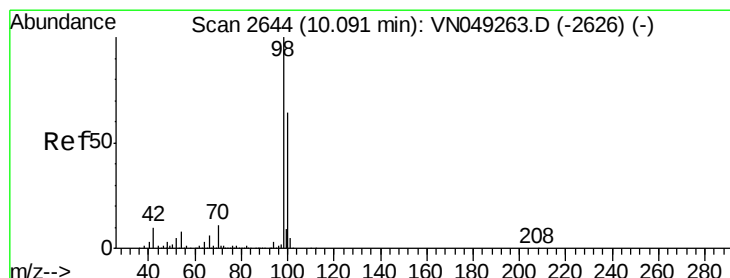
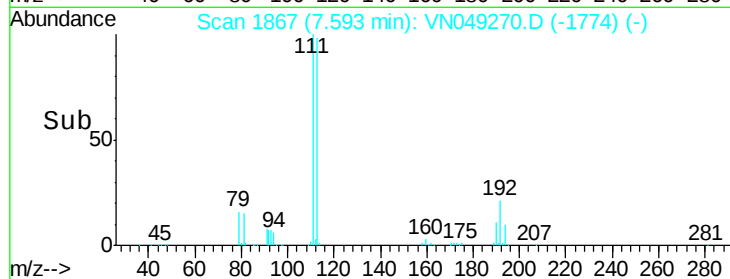
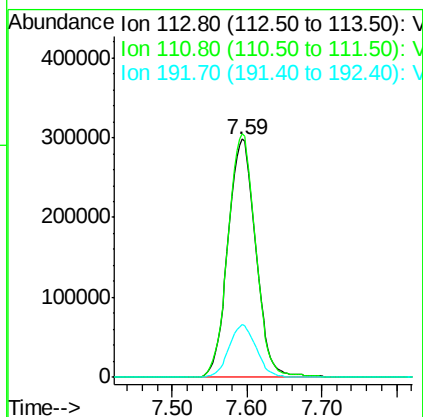
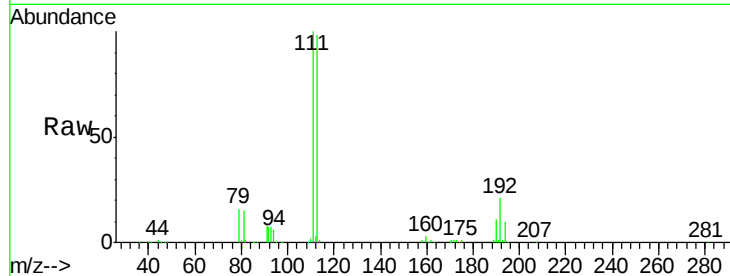




#35  
 Dibromofluoromethane  
 Concen: 45.67 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VN049270.D  
 Acq: 15 Jun 2018 20:08

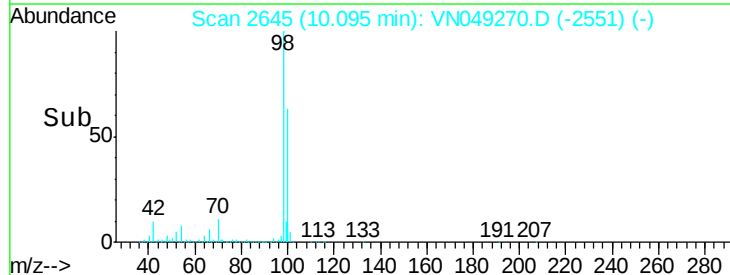
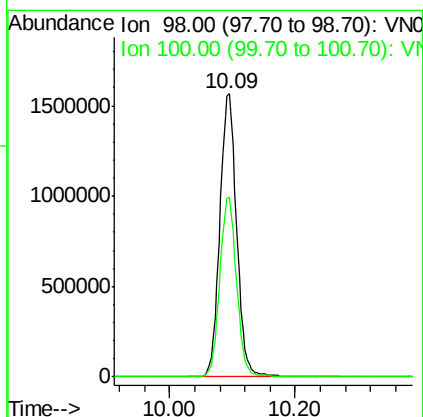
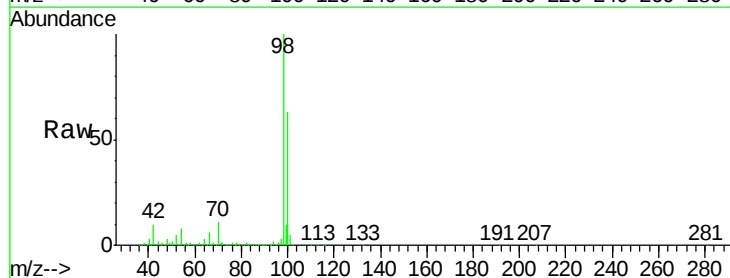
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB110255TB

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.4 | 82.4  | 123.6 |
| 192     | 21.6  | 15.0  | 22.6  |



#50  
 Toluene-d8  
 Concen: 45.34 ug/l  
 RT: 10.09 min Scan# 2645  
 Delta R.T. 0.00 min  
 Lab File: VN049270.D  
 Acq: 15 Jun 2018 20:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 63.1  | 49.8  | 74.8  |





#62

4-Bromofluorobenzene

Concen: 32.24 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049270.D

Acq: 15 Jun 2018 20:08

Instrument :

MSVOA\_N

ClientSampled :

PB110255TB

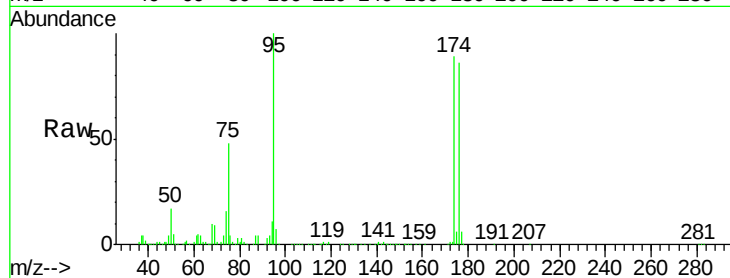
Tot Ion: 95 Resp: 685964

Ion Ratio Lower Upper

95 100

174 87.4 0.0 165.6

176 85.1 0.0 157.4

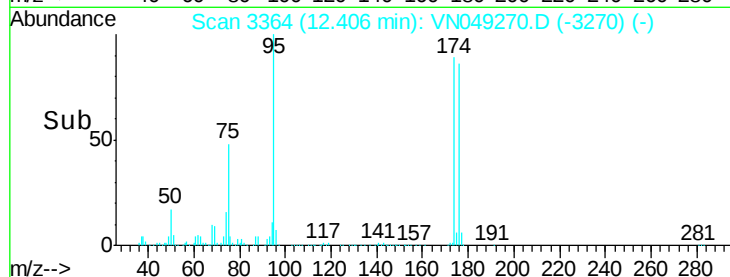


Abundance Ion 94.90 (94.60 to 95.60): VN049263.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN049263.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN049263.D (-3347) (-)

Time-->



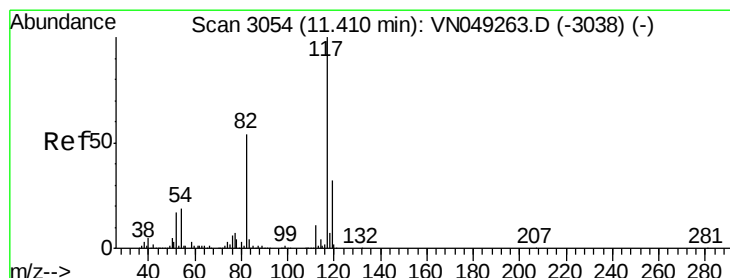
Abundance

Ion 94.90 (94.60 to 95.60): VN049263.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN049263.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN049263.D (-3347) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049270.D

Acq: 15 Jun 2018 20:08

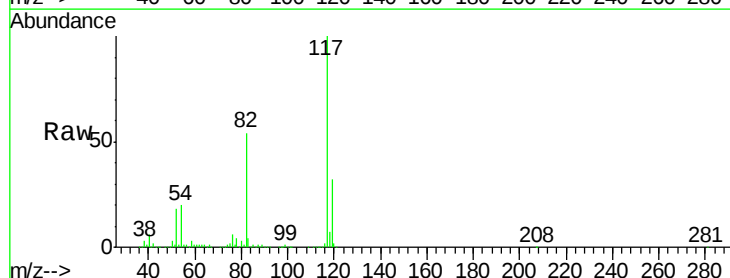
Tgt Ion: 117 Resp: 1703459

Ion Ratio Lower Upper

117 100

82 54.5 45.9 68.9

119 32.4 25.5 38.3

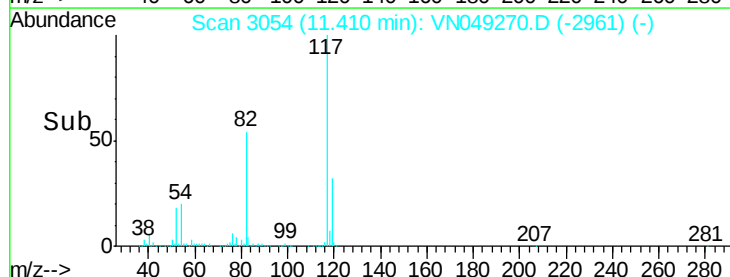


Abundance Ion 116.90 (116.60 to 117.60): VN049263.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049263.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049263.D (-3038) (-)

Time-->



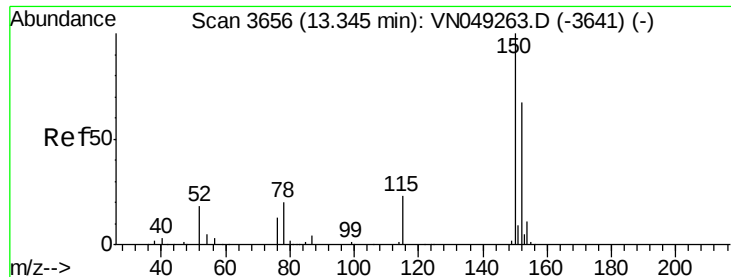
Abundance

Ion 116.90 (116.60 to 117.60): VN049263.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049263.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049263.D (-3038) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049270.D

Acq: 15 Jun 2018 20:08

Instrument :

MSVOA\_N

ClientSampled :

PB110255TB

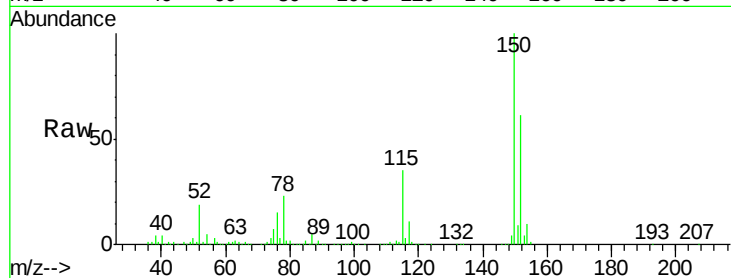
Tot Ion:152 Resp: 432217

Ion Ratio Lower Upper

152 100

115 57.4 28.7 86.1

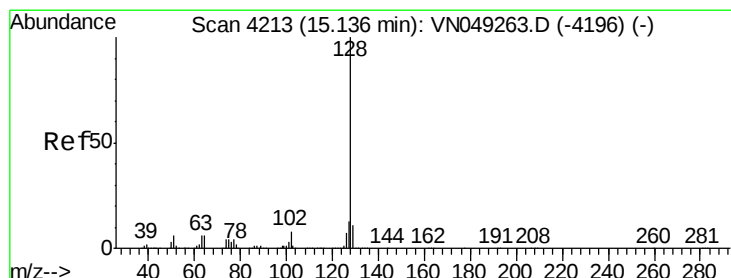
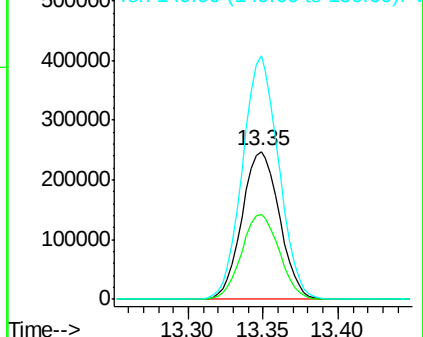
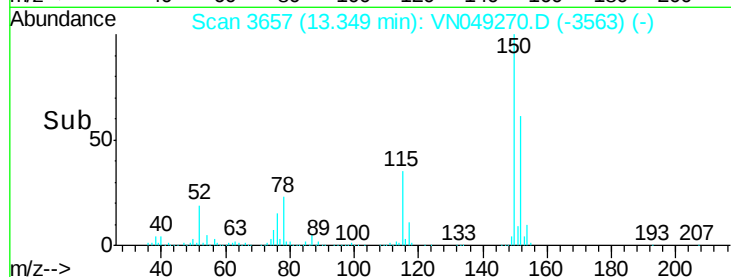
150 158.8 0.0 351.0



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



#95

Naphthalene

Concen: 3.75 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049270.D

Acq: 15 Jun 2018 20:08

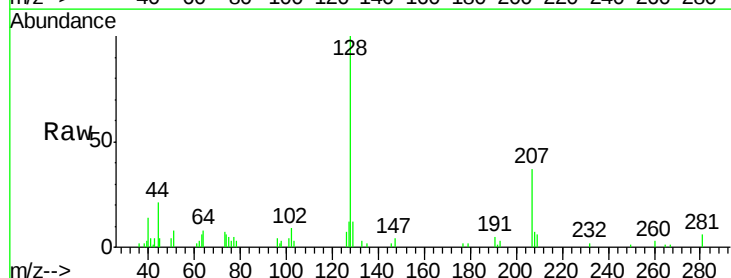
Tgt Ion:128 Resp: 20081

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

129 12.8 8.5 12.7#



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

