

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN101818\  
 Data File : VN051923.D  
 Acq On : 18 Oct 2018 18:15  
 Operator : MD\SY  
 Sample : PB113908ZHE#04  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB113908ZHE#04

Quant Time: Oct 19 07:22:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101718W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 19 05:11:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1019700  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1474288  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1306964  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 467123   | 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   | 551933   | 58.39 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 116.78% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 552714   | 58.98 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 117.96% |          |
| 50) Toluene-d8              | 10.09 | 98   | 2020782  | 59.25 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 118.50% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 578283   | 50.80 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.60% |          |

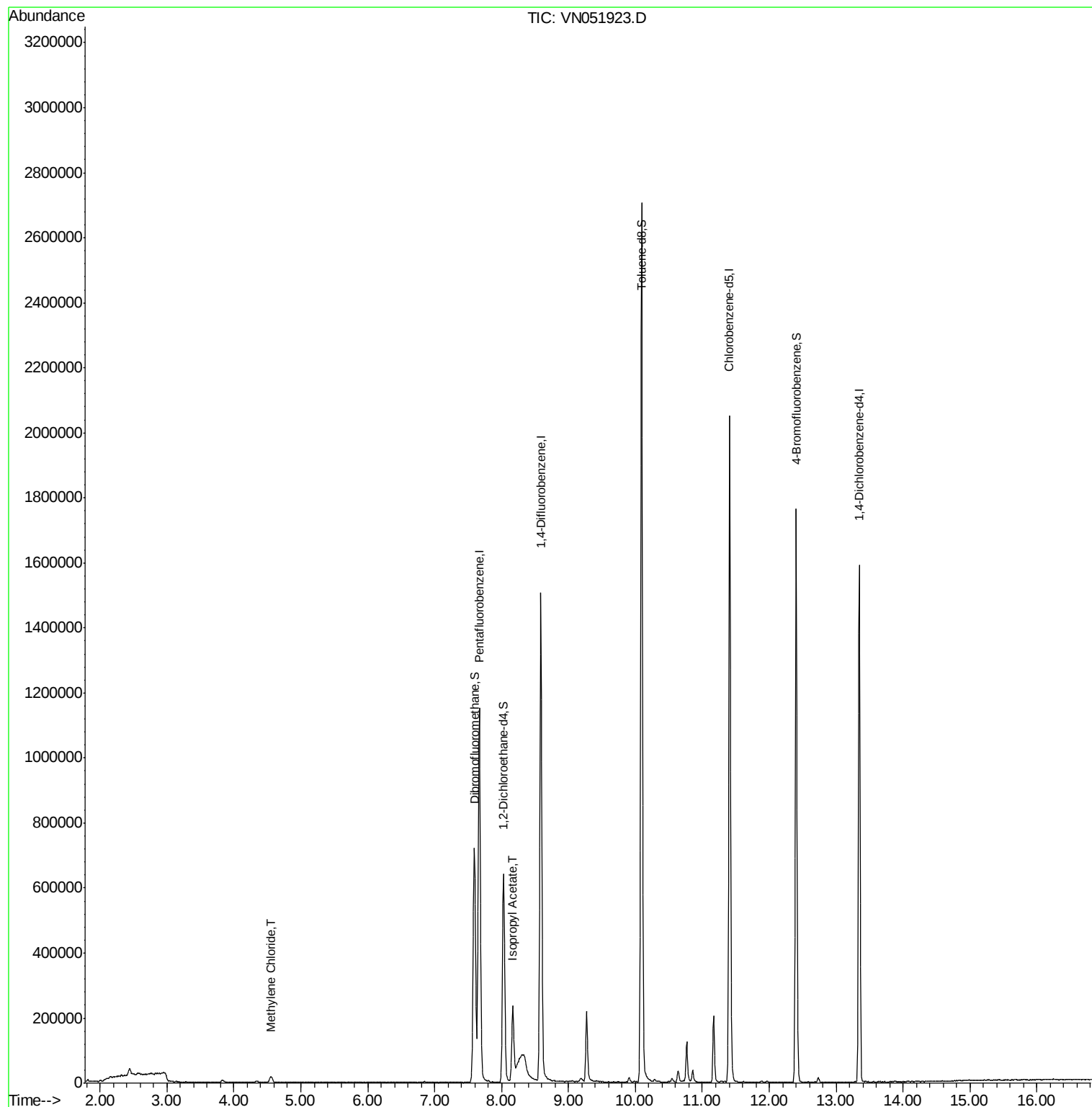
| Target Compounds       | R.T. | QIon | Response | Conc  | Units | Qvalue |
|------------------------|------|------|----------|-------|-------|--------|
| 20) Methylene Chloride | 4.55 | 84   | 13963    | 1.64  | ug/l  | 93     |
| 43) Isopropyl Acetate  | 8.17 | 43   | 278561   | 26.16 | ug/l  | # 88   |

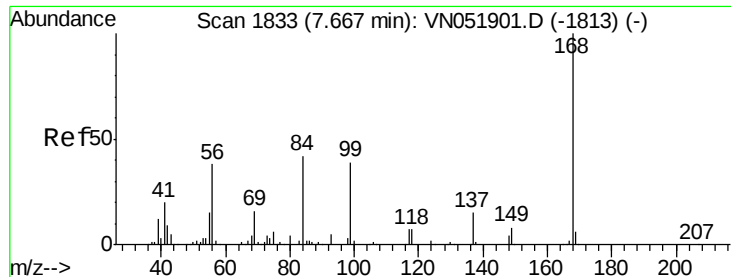
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : PB113908ZHE#04  
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MSVOA\_N  
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Quant Time: Oct 19 07:22:22 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N101718W.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 19 05:11:28 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051923.D

Acq: 18 Oct 2018 18:15

Instrument :

MSVOA\_N

ClientSampleId :

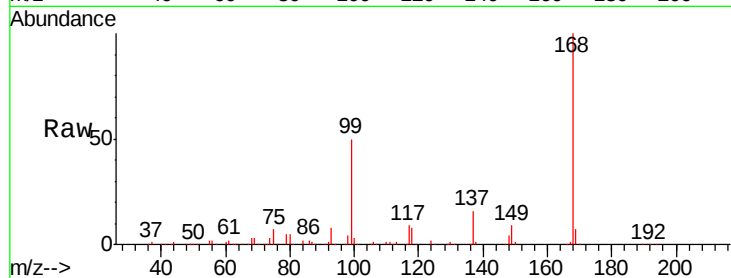
PB113908ZHE#04

Tgt Ion:168 Resp: 1019700

Ion Ratio Lower Upper

168 100

99 49.9 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

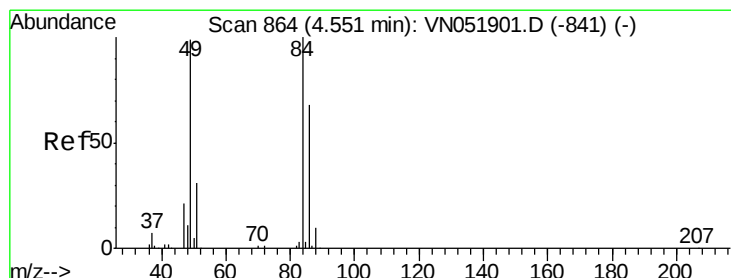
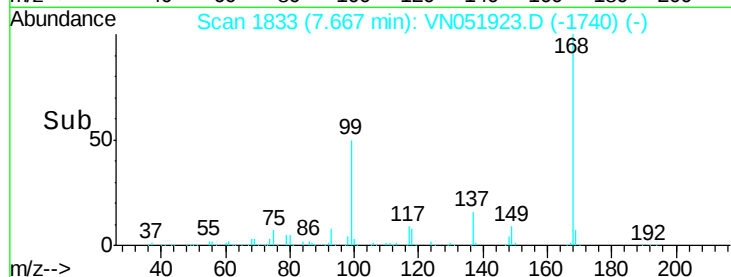
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 1.64 ug/l

RT: 4.55 min Scan# 863

Delta R.T. -0.00 min

Lab File: VN051923.D

Acq: 18 Oct 2018 18:15

Tgt Ion: 84 Resp: 13963

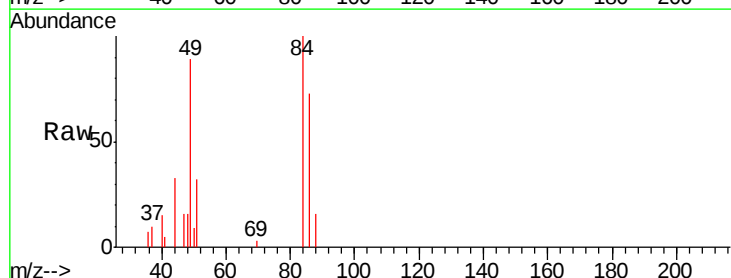
Ion Ratio Lower Upper

84 100

49 89.0 79.0 118.4

51 31.6 24.9 37.3

86 72.7 54.6 82.0



Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

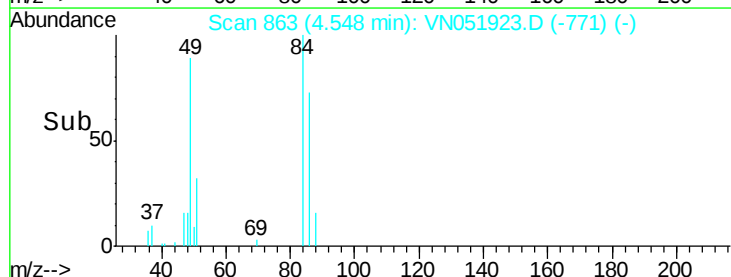
4.55

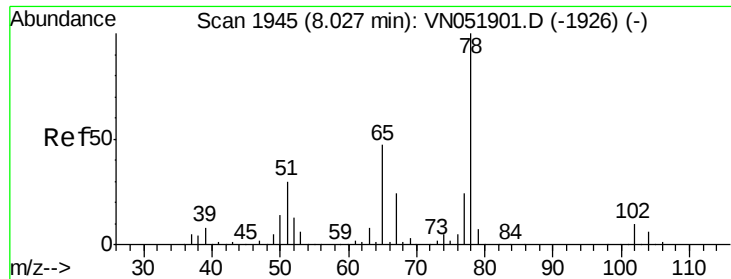
4000

2000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051923.D

Acq: 18 Oct 2018 18:15

Instrument :

MSVOA\_N

ClientSampleId :

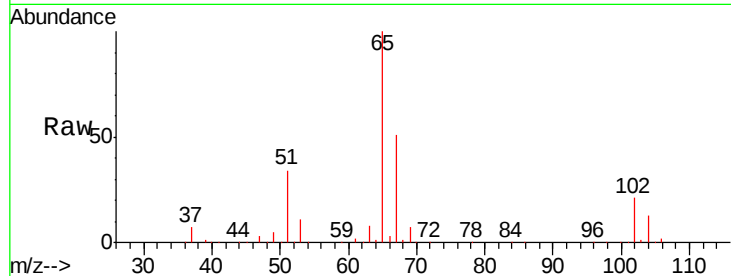
PB113908ZHE#04

Tgt Ion: 65 Resp: 551933

Ion Ratio Lower Upper

65 100

67 51.3 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

250000

200000

150000

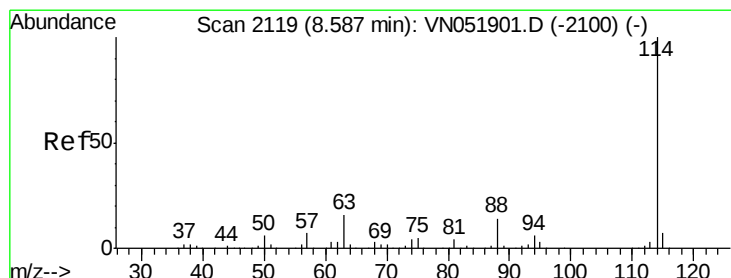
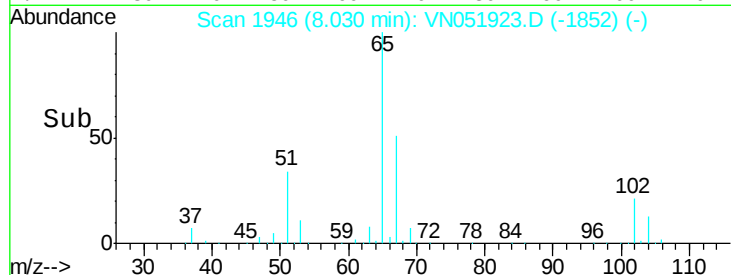
100000

50000

0

Time-->

7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051923.D

Acq: 18 Oct 2018 18:15

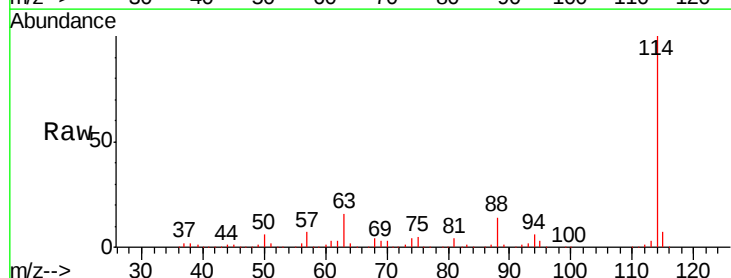
Tgt Ion: 114 Resp: 1474288

Ion Ratio Lower Upper

114 100

63 16.2 0.0 31.8

88 14.4 0.0 28.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.59

800000

600000

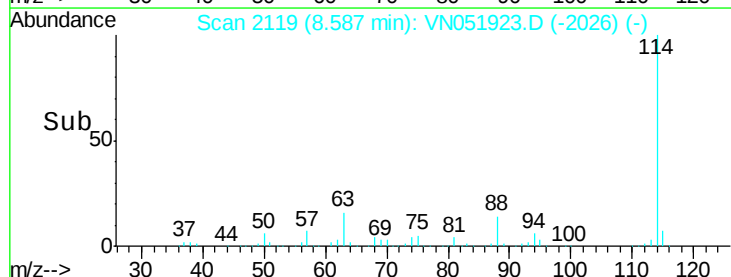
400000

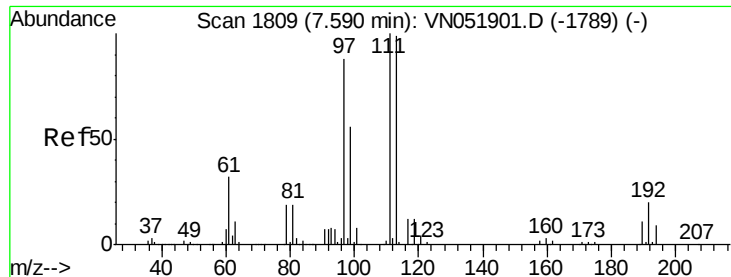
200000

0

Time-->

8.50 8.60 8.70

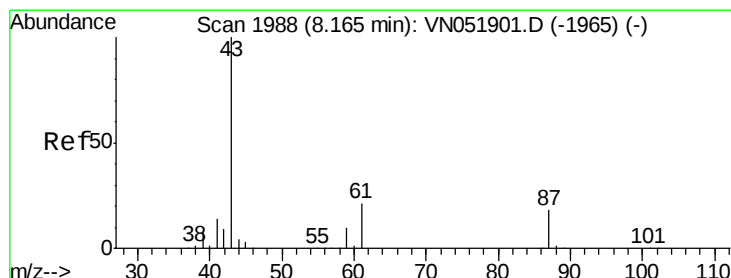
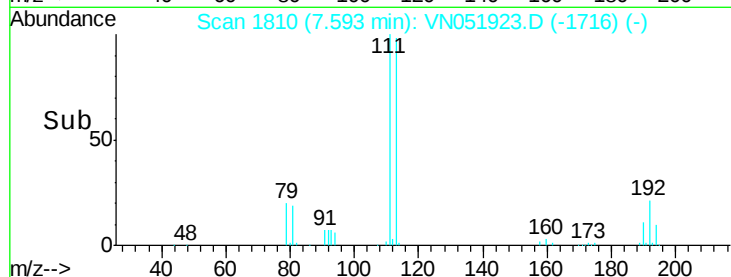
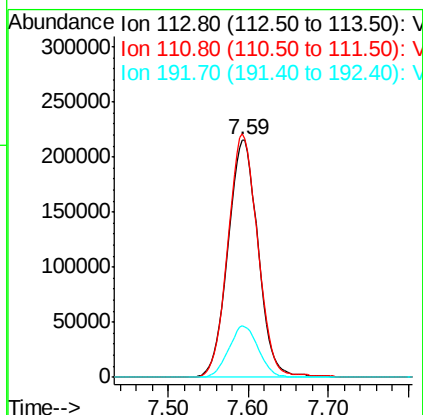
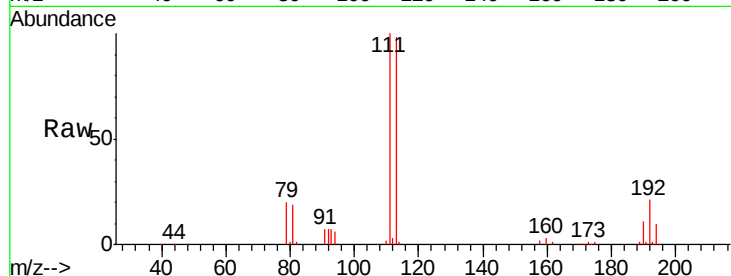




#35  
 Dibromofluoromethane  
 Concen: 50.00 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN051923.D  
 Acq: 18 Oct 2018 18:15

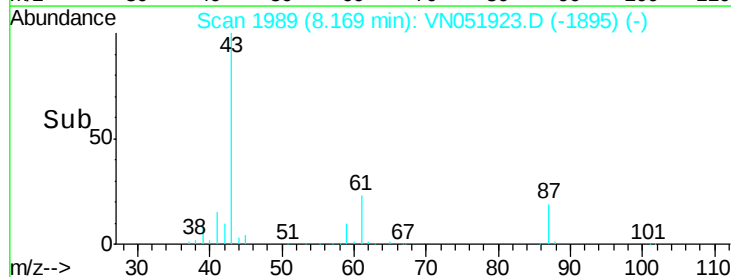
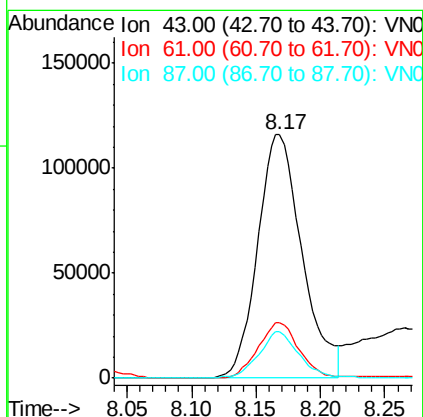
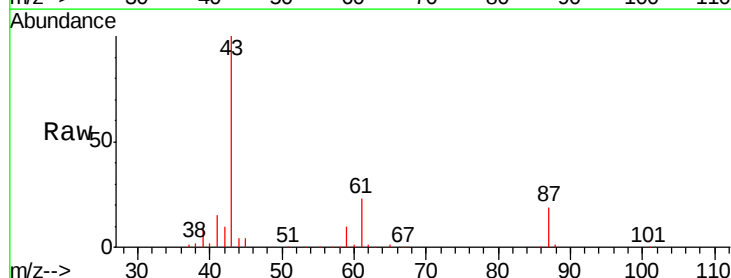
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB113908ZHE#04

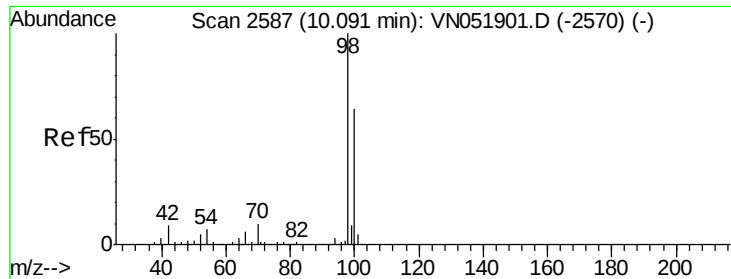
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.7 | 82.6  | 123.8 |
| 192     | 21.5  | 17.3  | 25.9  |



#43  
 Isopropyl Acetate  
 Concen: 26.16 ug/l  
 RT: 8.17 min Scan# 1989  
 Delta R.T. 0.00 min  
 Lab File: VN051923.D  
 Acq: 18 Oct 2018 18:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 21.0  | 24.9  | 37.3# |
| 87      | 17.2  | 14.6  | 22.0  |





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051923.D

Acq: 18 Oct 2018 18:15

Instrument :

MSVOA\_N

ClientSampleId :

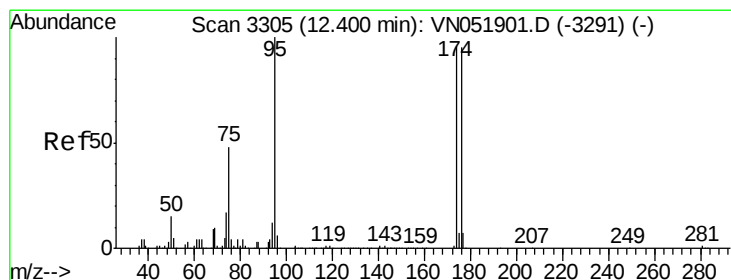
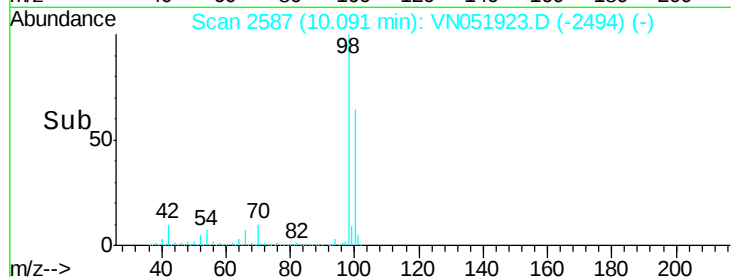
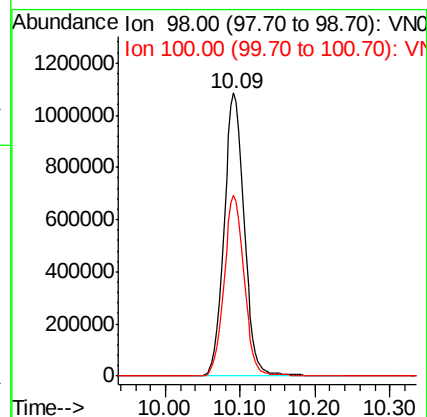
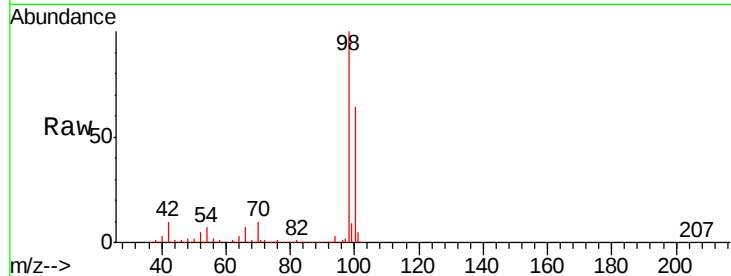
PB113908ZHE#04

Tgt Ion: 98 Resp: 2020782

Ion Ratio Lower Upper

98 100

100 63.5 51.0 76.4



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051923.D

Acq: 18 Oct 2018 18:15

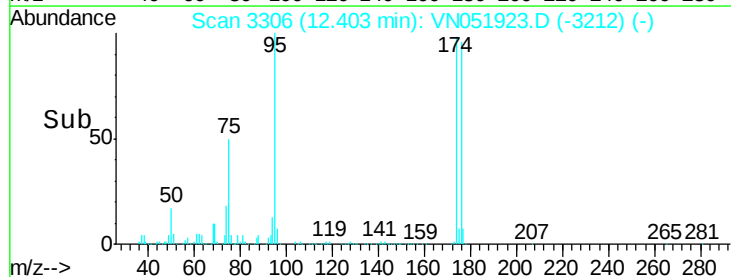
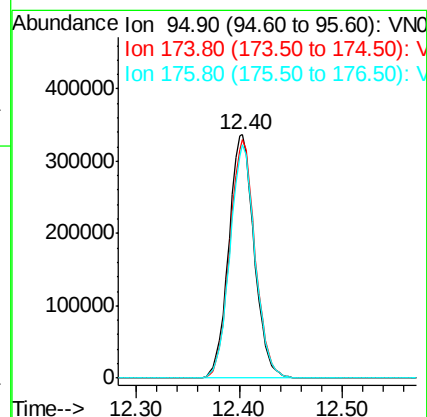
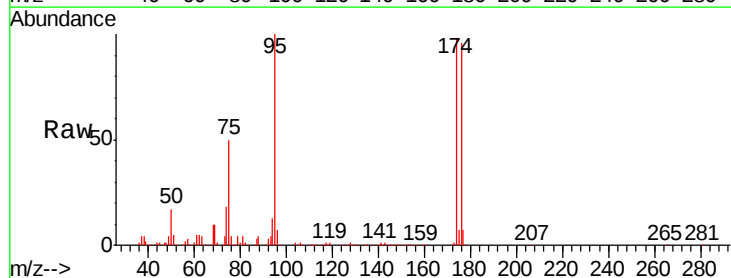
Tgt Ion: 95 Resp: 578283

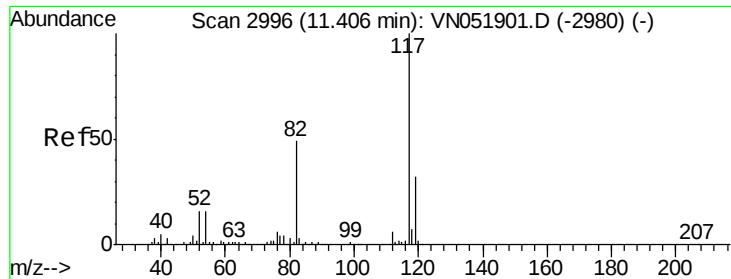
Ion Ratio Lower Upper

95 100

174 97.6 0.0 195.0

176 95.0 0.0 191.4

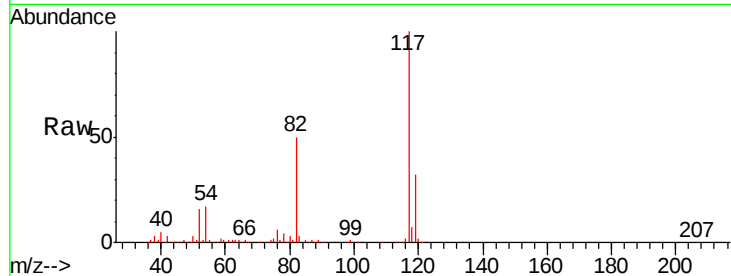




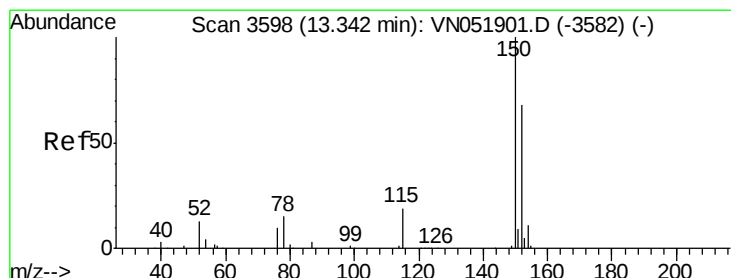
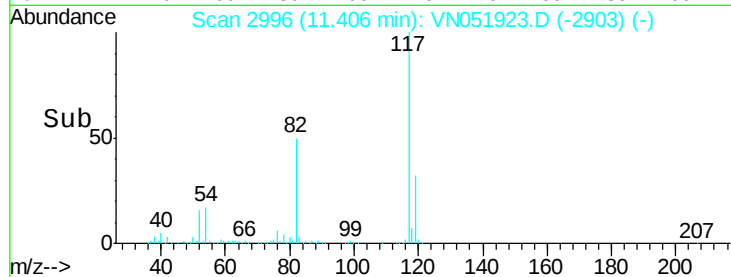
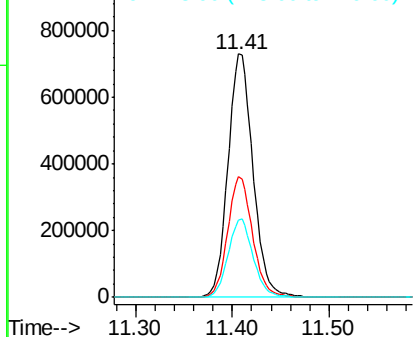
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN051923.D  
Acq: 18 Oct 2018 18:15

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB113908ZHE#04

Tgt Ion:117 Resp: 1306964  
Ion Ratio Lower Upper  
117 100  
82 49.6 38.9 58.3  
119 31.8 25.9 38.9

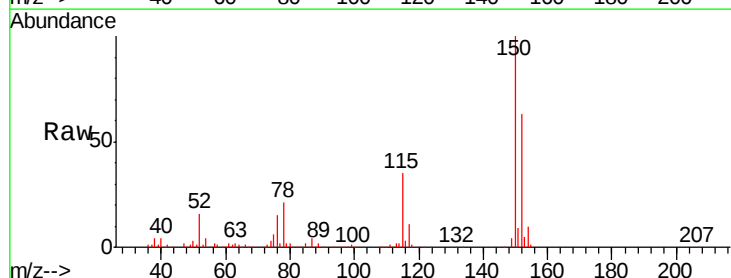


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN051923.D  
Acq: 18 Oct 2018 18:15

Tgt Ion:152 Resp: 467123  
Ion Ratio Lower Upper  
152 100  
115 54.5 26.7 80.1  
150 156.9 0.0 346.4



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

