

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN111918\  
 Data File : VN052393.D  
 Acq On : 19 Nov 2018 18:53  
 Operator : MD\SY  
 Sample : PB114846ZHE#09  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB114846ZHE#09

Quant Time: Nov 20 07:54:44 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N111418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 15 03:02:37 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 290583   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 487336   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 422953   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 148617   | 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   | 209713   | 51.10 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 102.20% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 162006   | 51.54 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.08% |          |
| 50) Toluene-d8              | 10.09 | 98   | 623294   | 50.41 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.82% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 184173   | 45.28 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 90.56%  |          |

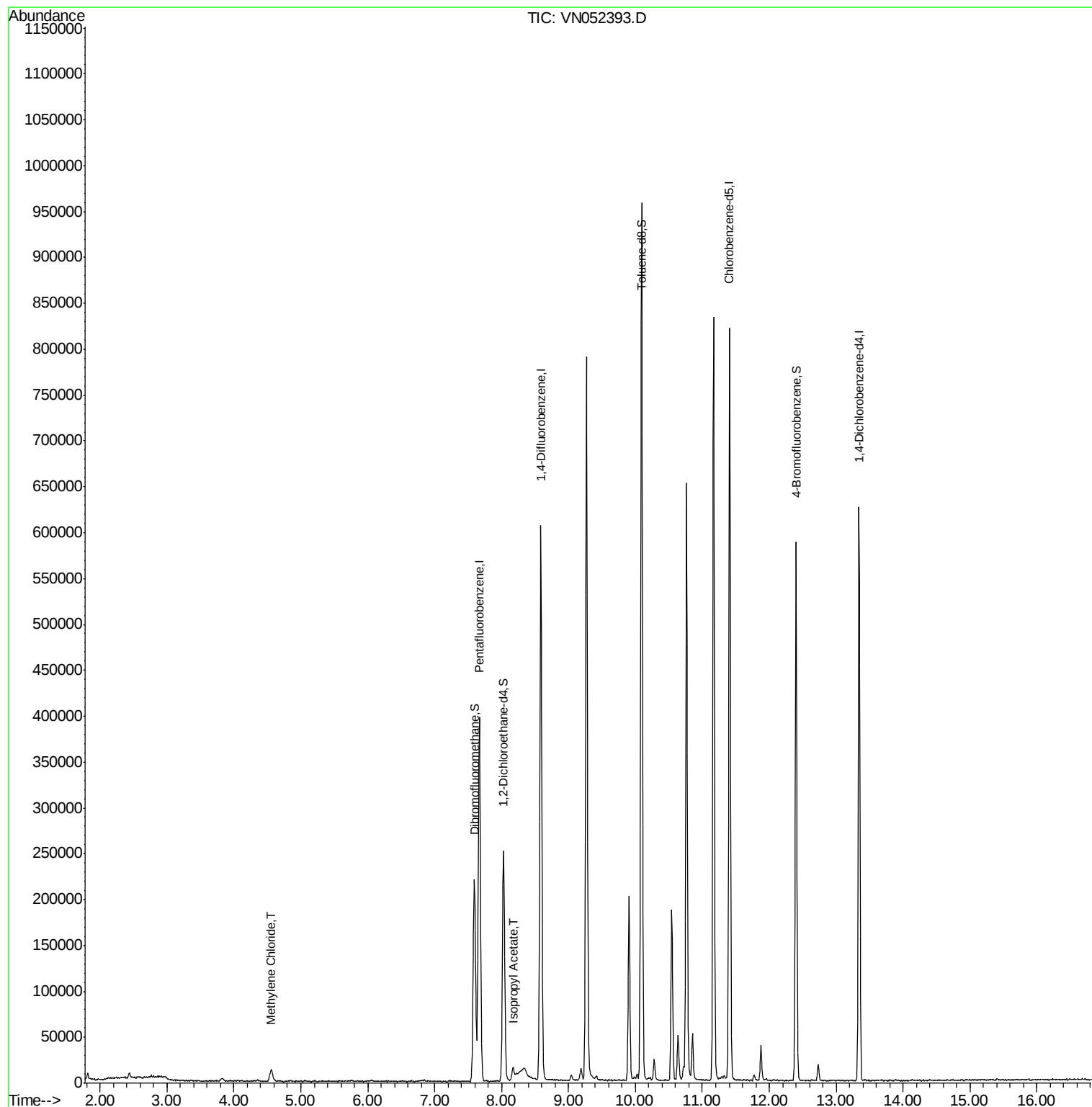
| Target Compounds       | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------|------|------|----------|------|-------|--------|
| 20) Methylene Chloride | 4.56 | 84   | 7735     | 1.57 | ug/l  | 97     |
| 43) Isopropyl Acetate  | 8.17 | 43   | 17810    | 2.60 | ug/l  | 96     |

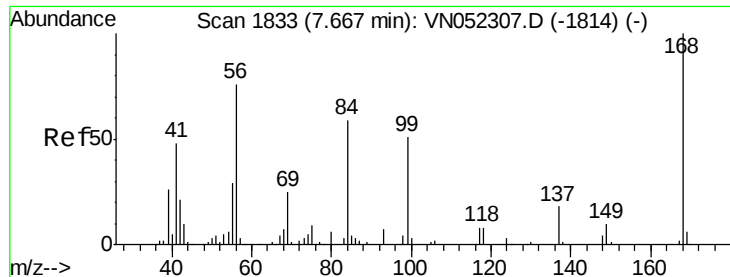
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N111418W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 15 03:02:37 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

Instrument :

MSVOA\_N

ClientSampleId :

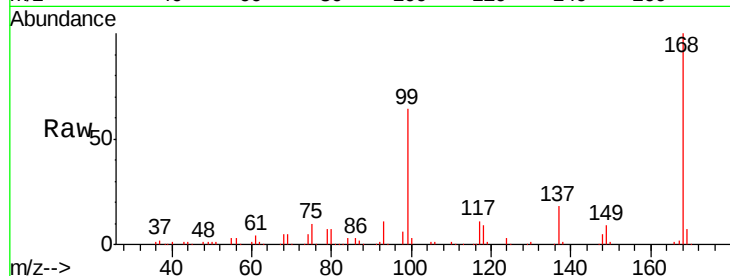
PB114846ZHE#09

Tgt Ion:168 Resp: 290583

Ion Ratio Lower Upper

168 100

99 63.8 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

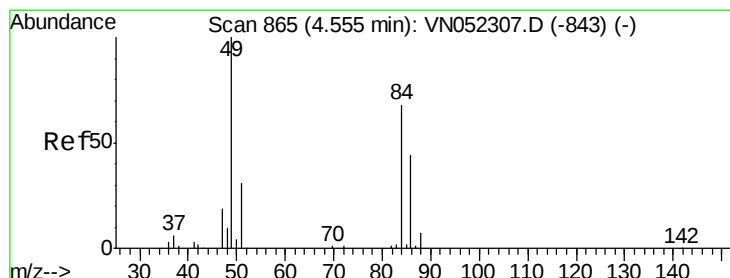
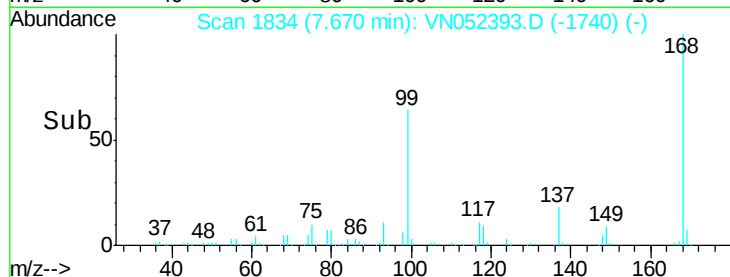
7.67

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 1.57 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.00 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

Tgt Ion: 84 Resp: 7735

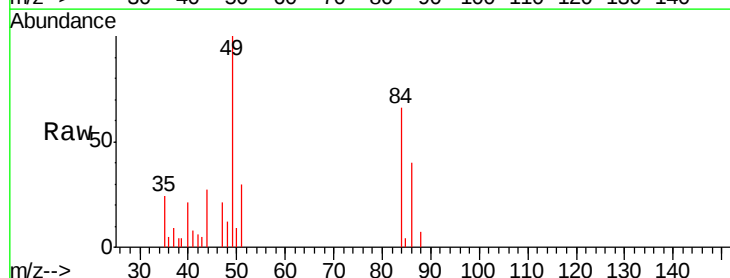
Ion Ratio Lower Upper

84 100

49 151.3 118.2 177.2

51 45.4 36.1 54.1

86 60.2 51.6 77.4



Abundance Ion 83.90 (83.60 to 84.60): VN

Ion 48.90 (48.60 to 49.60): VN

Ion 50.90 (50.60 to 51.60): VN

Ion 85.90 (85.60 to 86.60): VN

4.56

5000

4000

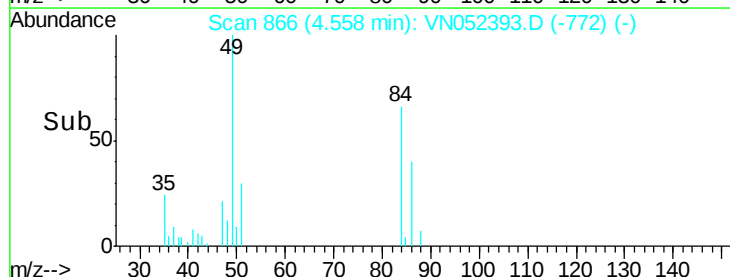
3000

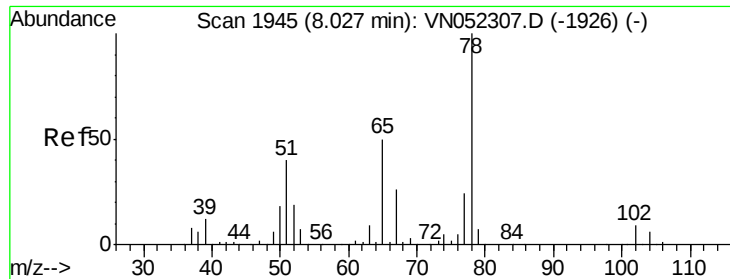
2000

1000

0

Time-->

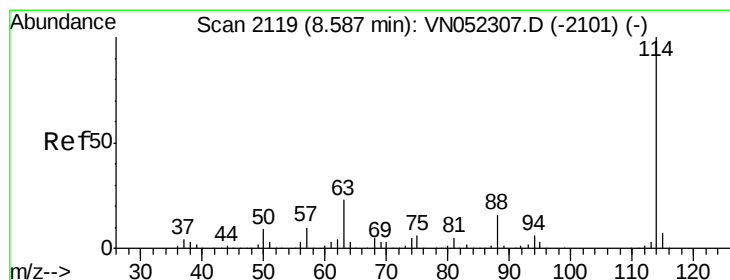
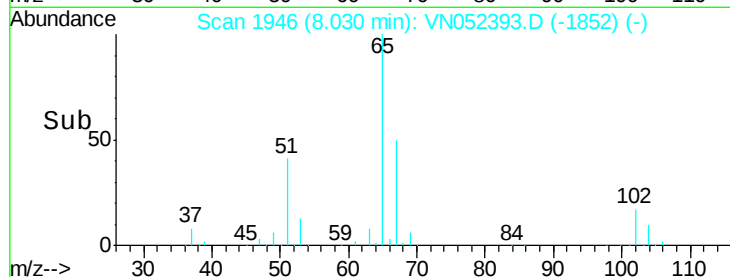
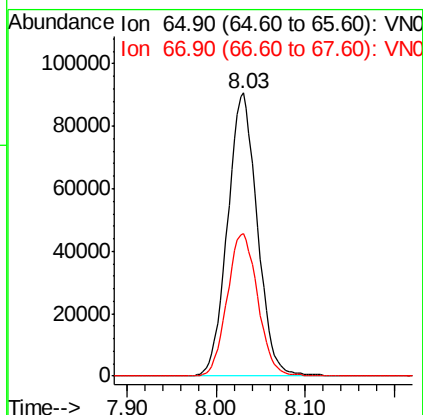
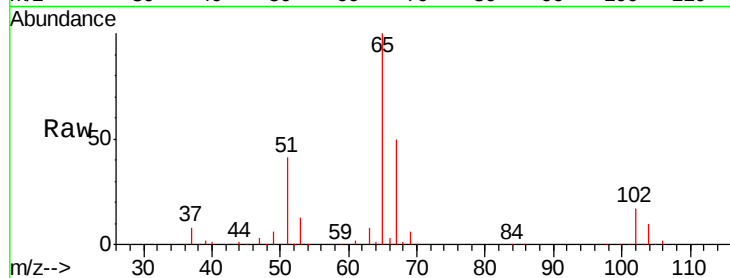




#33  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 8.03 min Scan# 1946  
 Delta R.T. 0.00 min  
 Lab File: VN052393.D  
 Acq: 19 Nov 2018 18:53

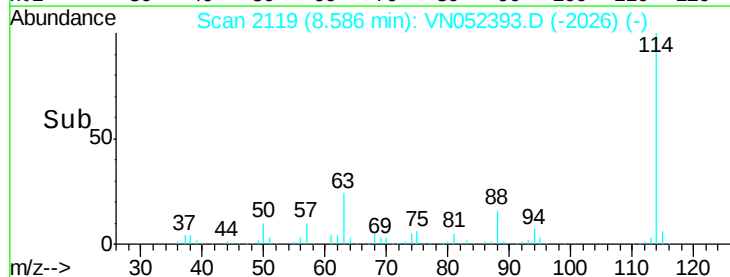
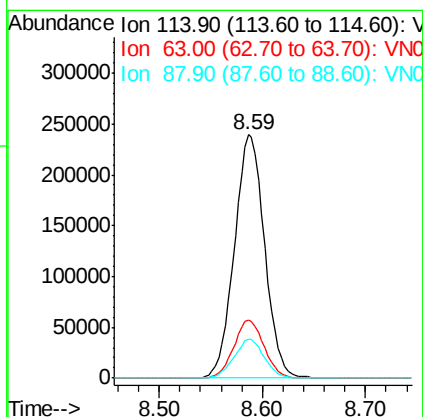
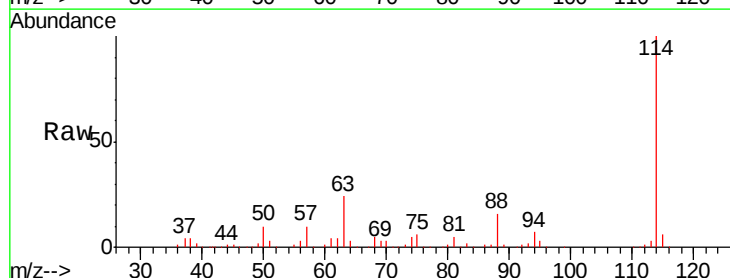
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB114846ZHE#09

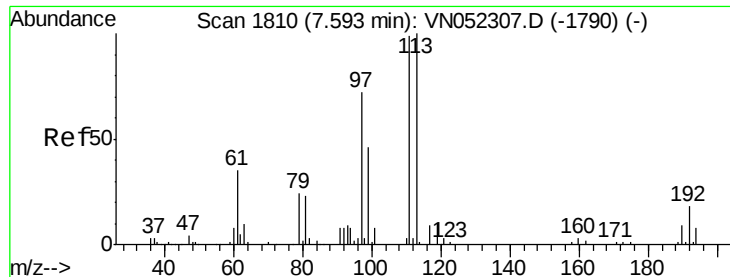
Tgt Ion: 65 Resp: 209713  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN052393.D  
 Acq: 19 Nov 2018 18:53

Tgt Ion: 114 Resp: 487336  
 Ion Ratio Lower Upper  
 114 100  
 63 23.9 0.0 45.4  
 88 16.1 0.0 31.2

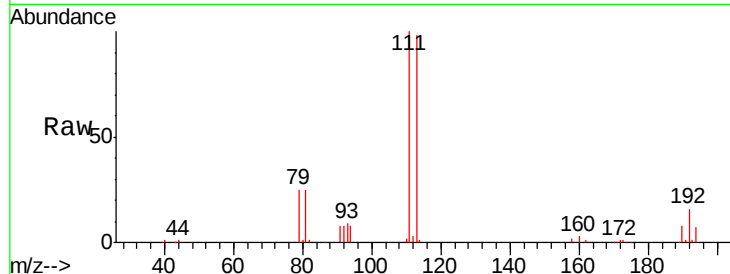




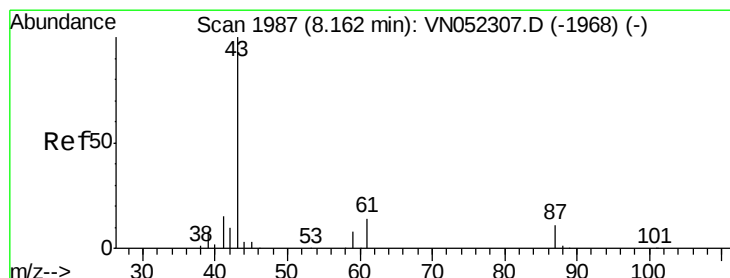
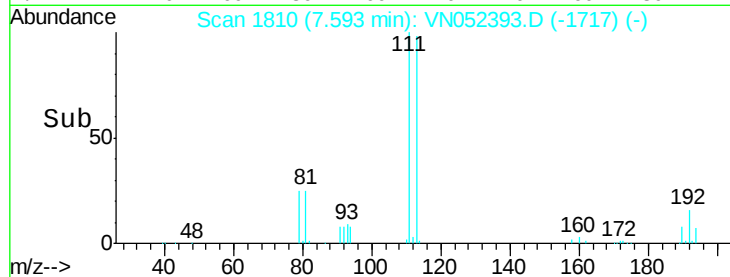
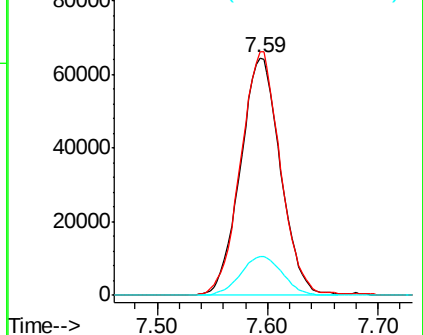
#35  
 Dibromofluoromethane  
 Concen: 50.00 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. -0.00 min  
 Lab File: VN052393.D  
 Acq: 19 Nov 2018 18:53

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB114846ZHE#09

Tgt Ion: 113 Resp: 162006  
 Ion Ratio Lower Upper  
 113 100  
 111 102.2 81.0 121.6  
 192 17.2 13.8 20.6

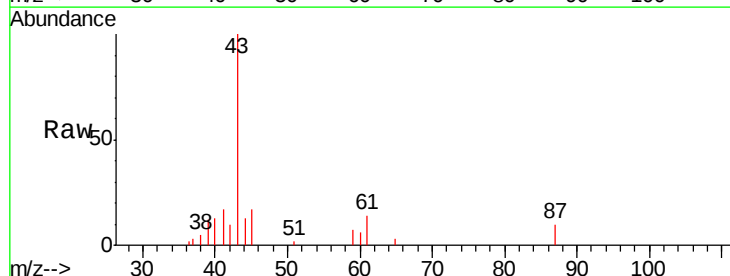


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

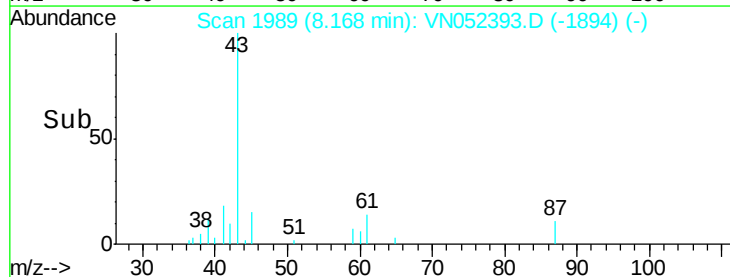
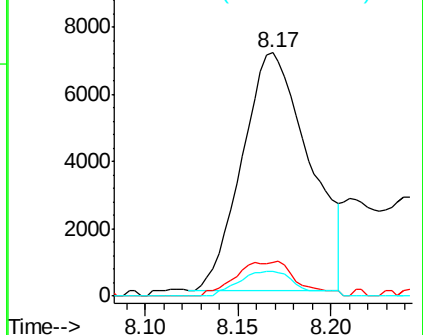


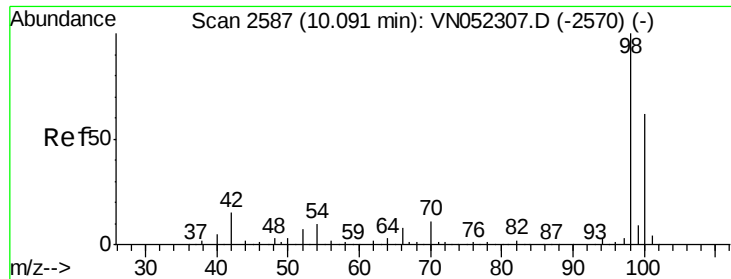
#43  
 Isopropyl Acetate  
 Concen: 2.60 ug/l  
 RT: 8.17 min Scan# 1989  
 Delta R.T. 0.01 min  
 Lab File: VN052393.D  
 Acq: 19 Nov 2018 18:53

Tgt Ion: 43 Resp: 17810  
 Ion Ratio Lower Upper  
 43 100  
 61 13.3 12.0 18.0  
 87 8.5 8.3 12.5



Abundance Ion 43.00 (42.70 to 43.70): VNO  
 Ion 61.00 (60.70 to 61.70): VNO  
 Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

Instrument :

MSVOA\_N

ClientSampleId :

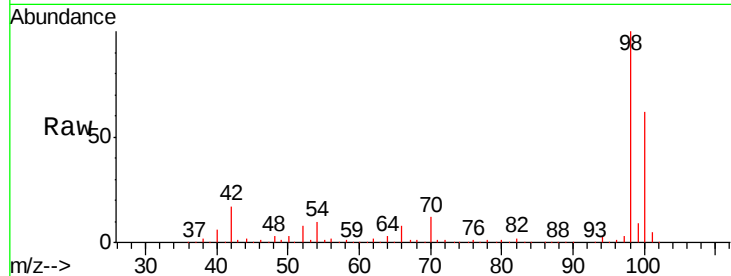
PB114846ZHE#09

Tgt Ion: 98 Resp: 623294

Ion Ratio Lower Upper

98 100

100 62.7 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN052307.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052307.D (-2570) (-)

10.09

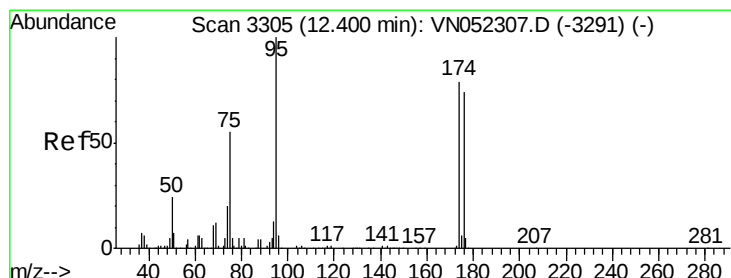
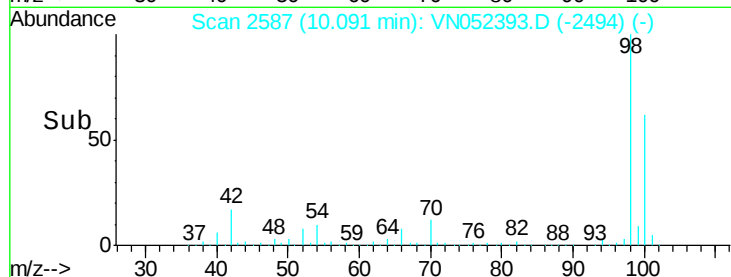
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

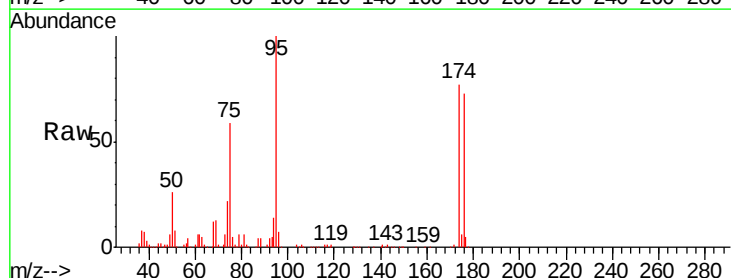
Tgt Ion: 95 Resp: 184173

Ion Ratio Lower Upper

95 100

174 75.5 0.0 156.0

176 73.1 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052307.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052307.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052307.D (-3291) (-)

12.40

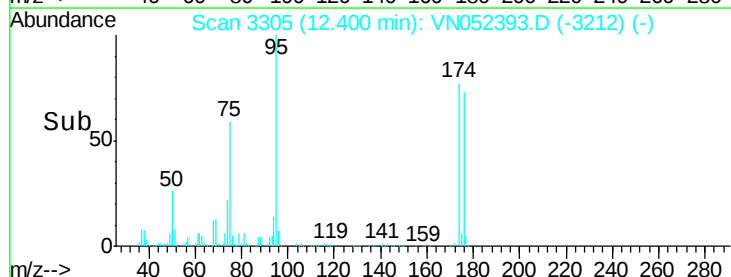
150000

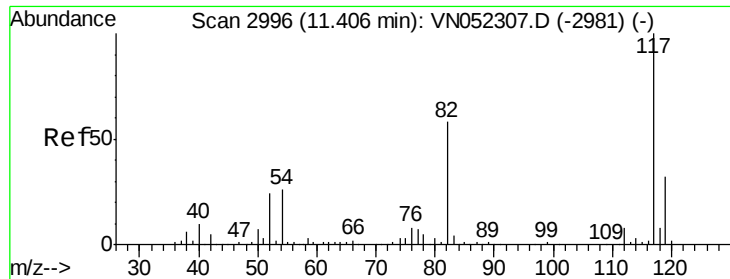
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50000

0

Time-->

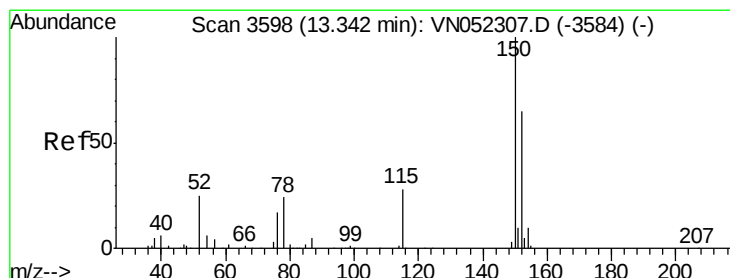
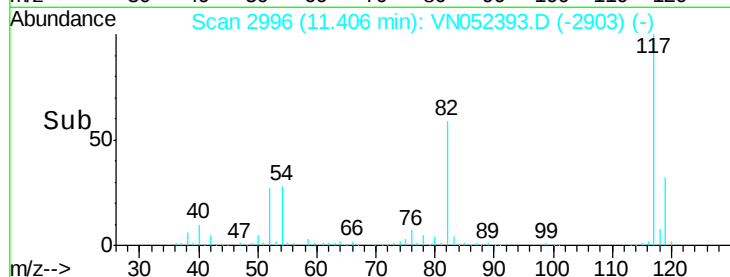
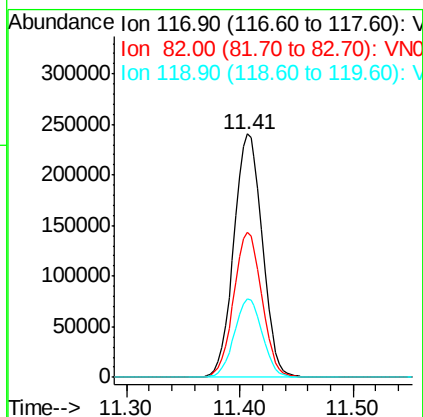
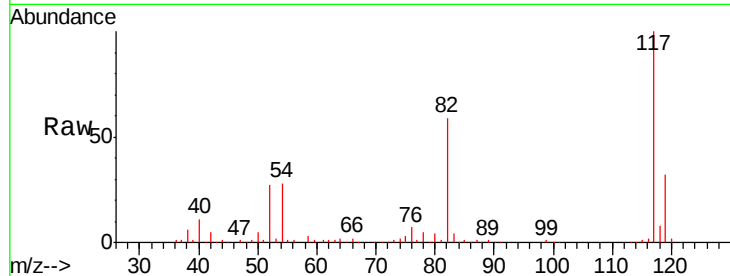




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN052393.D  
Acq: 19 Nov 2018 18:53

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB114846ZHE#09

Tgt Ion:117 Resp: 422953  
Ion Ratio Lower Upper  
117 100  
82 59.4 46.5 69.7  
119 32.0 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. -0.00 min  
Lab File: VN052393.D  
Acq: 19 Nov 2018 18:53

Tgt Ion:152 Resp: 148617  
Ion Ratio Lower Upper  
152 100  
115 60.7 30.3 91.0  
150 157.9 0.0 348.2

