

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082219\  
 Data File : VN057451.D  
 Acq On : 22 Aug 2019 23:23  
 Operator : JC/SP  
 Sample : K4403-34  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T1-I(2.5)

Quant Time: Aug 23 05:40:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N082219W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 23 05:07:29 2019  
 Response via : Initial Calibration

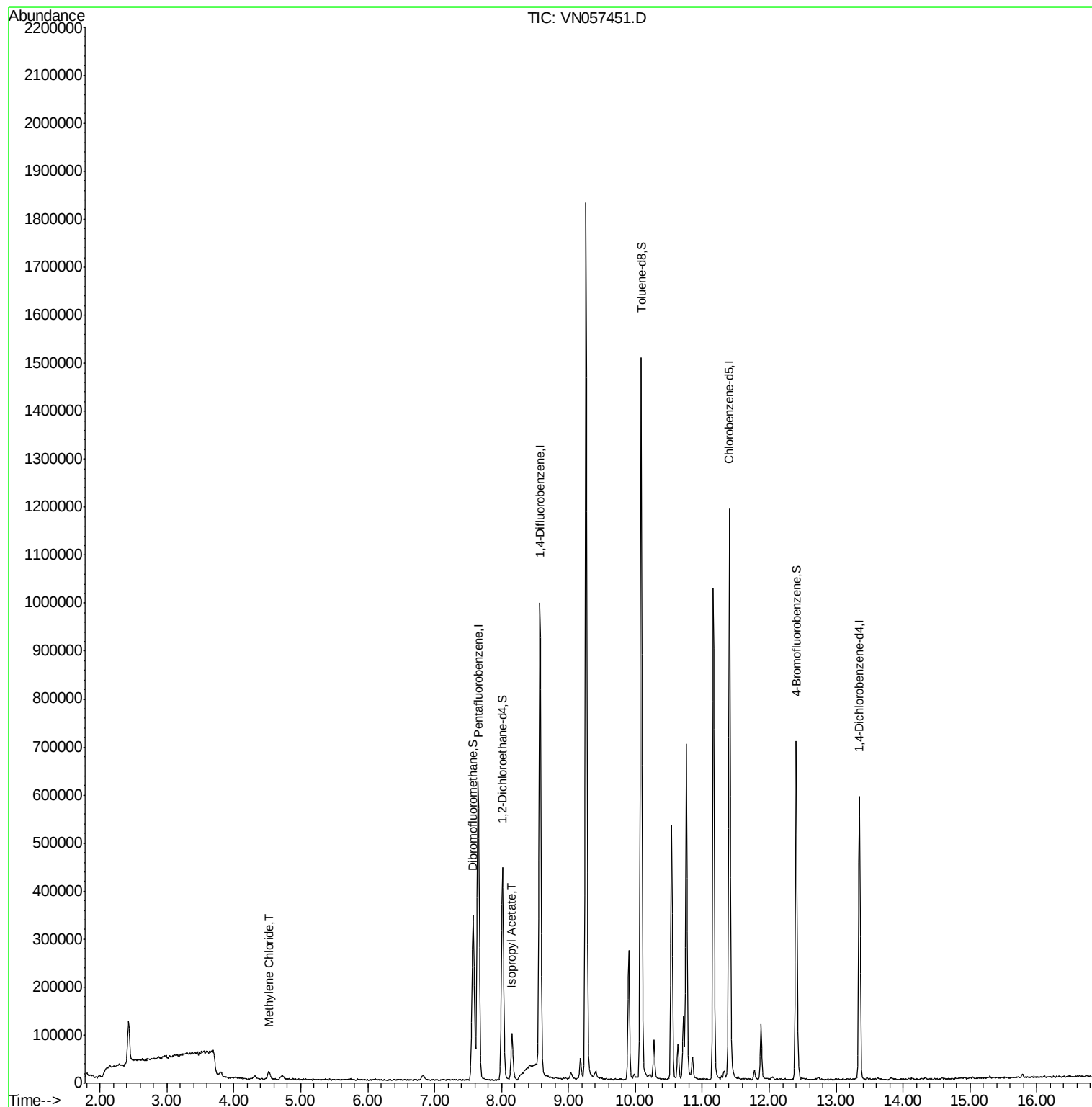
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 7.65  | 168  | 447702   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.58  | 114  | 782931   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 625541   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 145861   | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 368054   | 46.73 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 93.46% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 256603   | 48.52 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.04% |          |
| 50) Toluene-d8              | 10.08 | 98   | 980762   | 49.05 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.10% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 256435   | 37.84 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 75.68% |          |
| Target Compounds            |       |      |          |       |        |          |
| 20) Methylene Chloride      | 4.52  | 84   | 10475    | 1.881 | ug/l   | 89       |
| 43) Isopropyl Acetate       | 8.16  | 43   | 119672   | 8.256 | ug/l   | 98       |

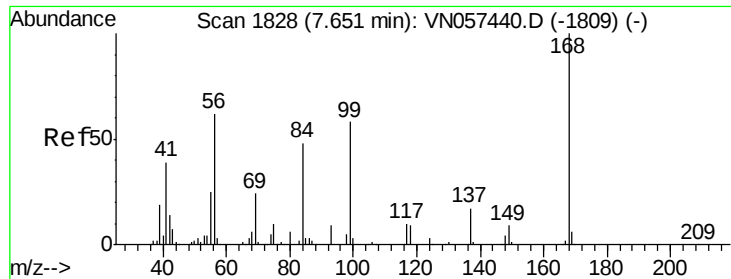
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN082219\  
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ClientSampleId :  
T1-I-(2.5)

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N082219W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 23 05:07:29 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN057451.D

Acq: 22 Aug 2019 23:23

Instrument :

MSVOA\_N

ClientSampleId :

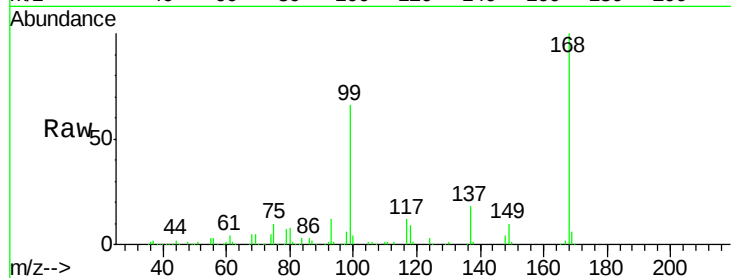
T1-I(2.5)

Tot Ion:168 Resp: 447702

Ion Ratio Lower Upper

168 100

99 65.6 50.6 76.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

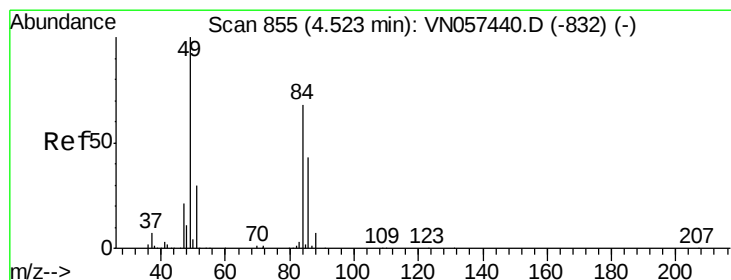
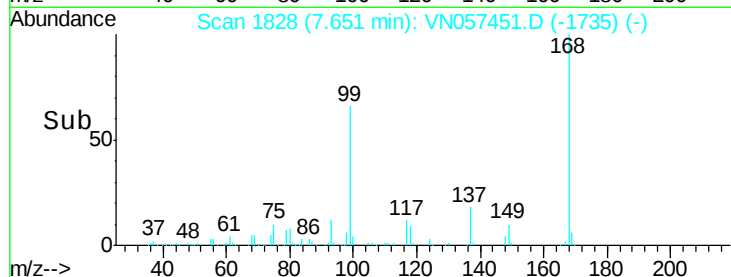
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#20

Methylene Chloride

Concen: 1.881 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.00 min

Lab File: VN057451.D

Acq: 22 Aug 2019 23:23

Tgt Ion: 84 Resp: 10475

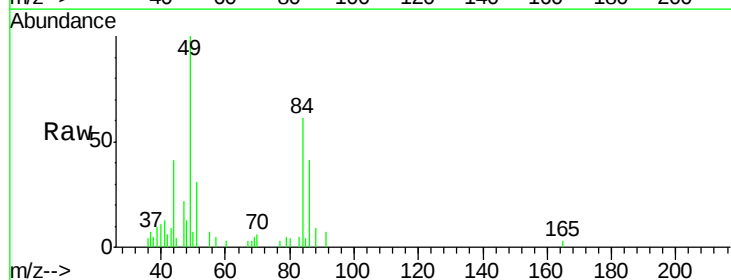
Ion Ratio Lower Upper

84 100

49 163.6 117.0 175.4

51 51.3 35.5 53.3

86 67.1 49.8 74.8



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

8000

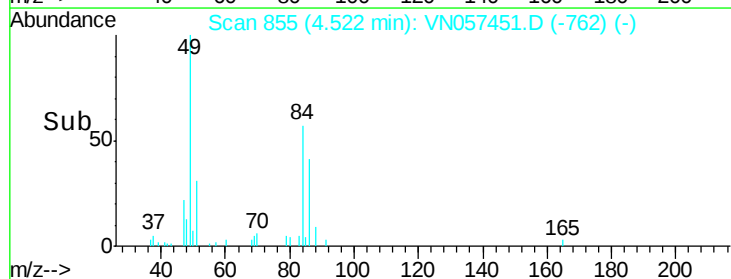
6000

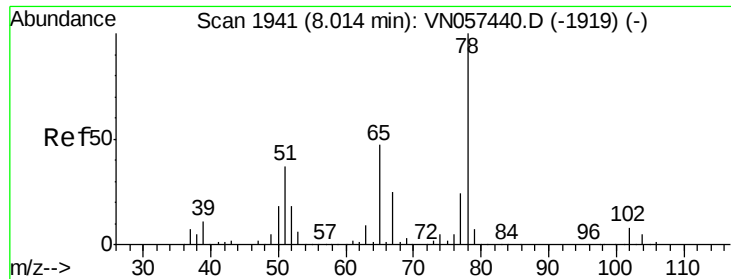
4000

2000

0

Time--> 4.40 4.45 4.50 4.55 4.60

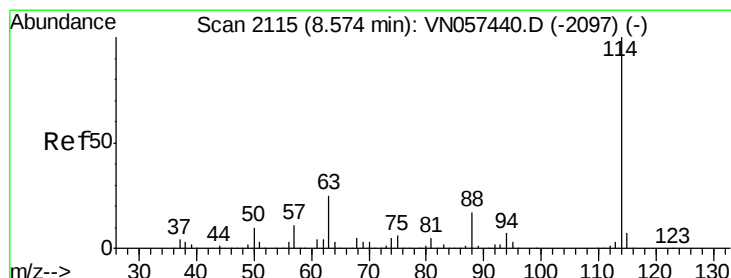
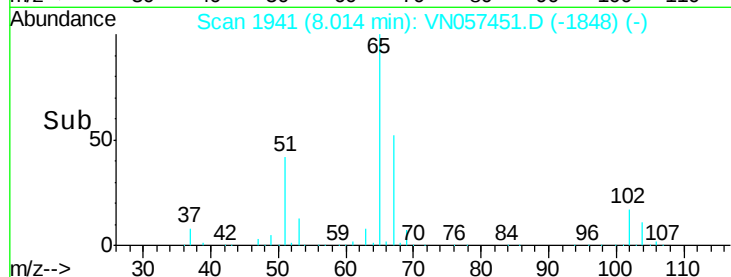
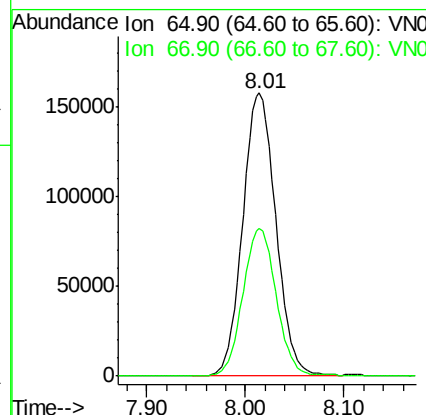
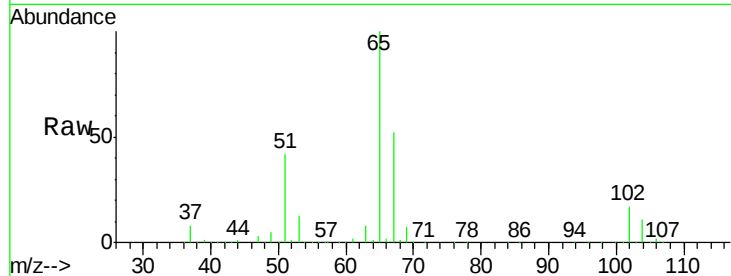




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.733 ug/l  
 RT: 8.01 min Scan# 1941  
 Delta R.T. -0.00 min  
 Lab File: VN057451.D  
 Acq: 22 Aug 2019 23:23

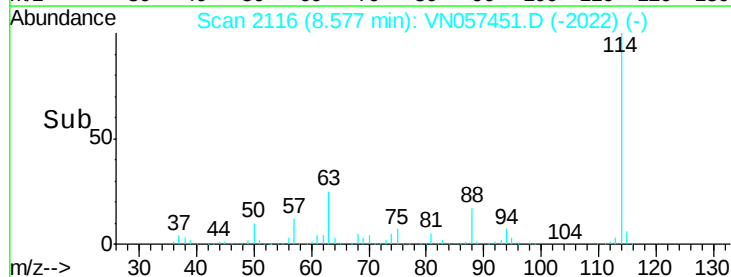
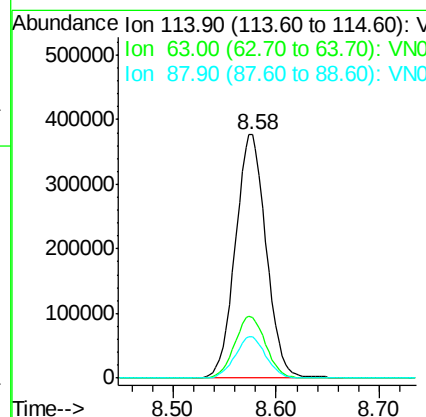
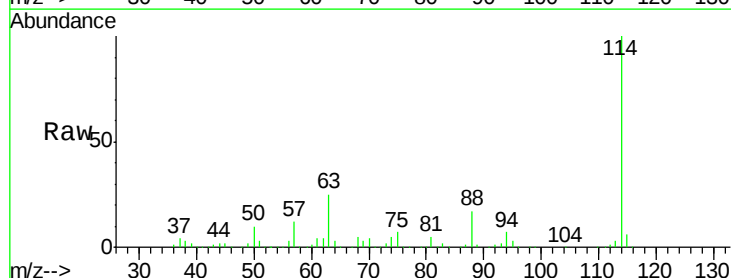
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T1-I-(2.5)

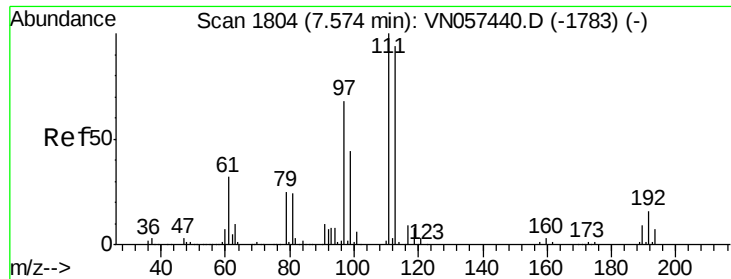
Tot Ion: 65 Resp: 368054  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 103.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2116  
 Delta R.T. 0.00 min  
 Lab File: VN057451.D  
 Acq: 22 Aug 2019 23:23

Tgt Ion: 114 Resp: 782931  
 Ion Ratio Lower Upper  
 114 100  
 63 24.8 0.0 50.2  
 88 16.8 0.0 34.6

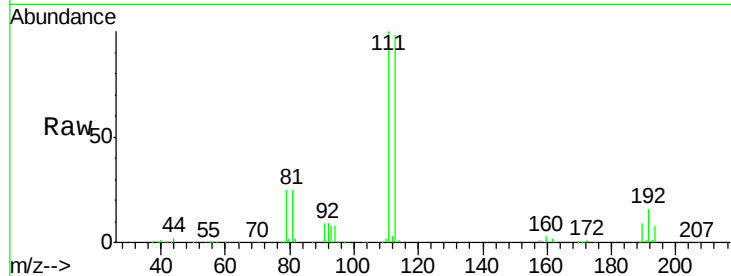




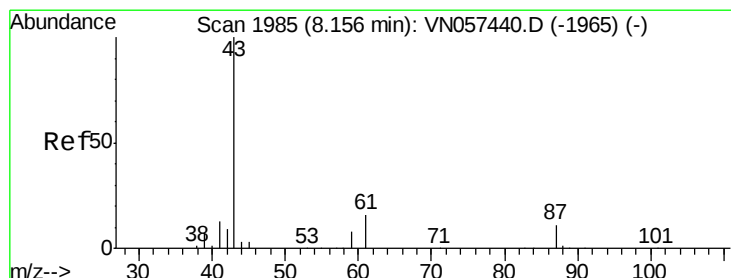
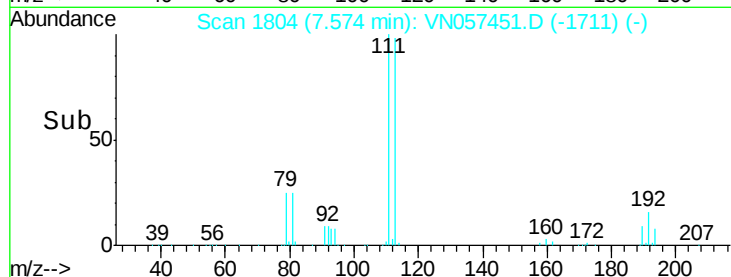
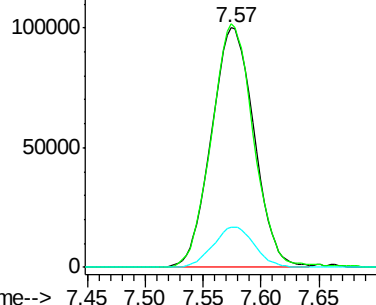
#35  
 Dibromofluoromethane  
 Concen: 48.522 ug/l  
 RT: 7.57 min Scan# 1804  
 Delta R.T. -0.00 min  
 Lab File: VN057451.D  
 Acq: 22 Aug 2019 23:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T1-I(2.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.3 | 83.8  | 125.6 |
| 192     | 16.3  | 13.5  | 20.3  |

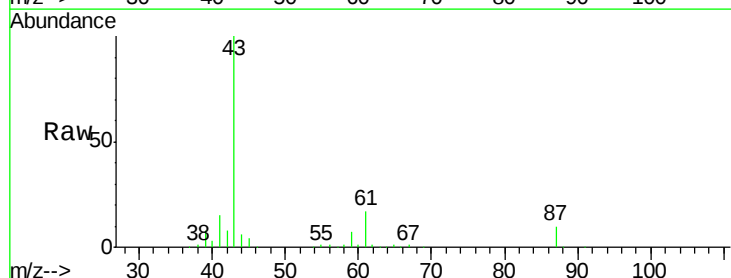


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

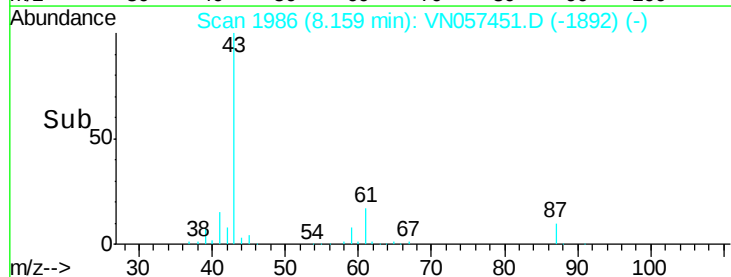
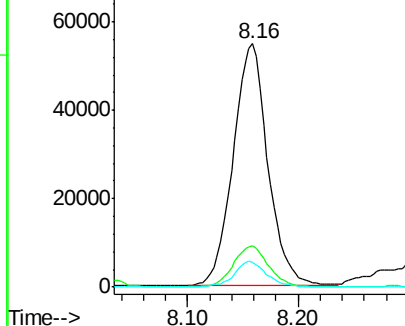


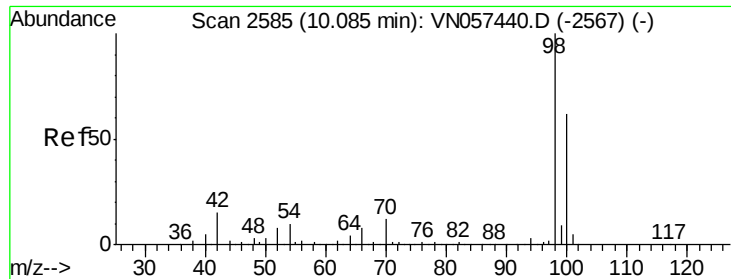
#43  
 Isopropyl Acetate  
 Concen: 8.256 ug/l  
 RT: 8.16 min Scan# 1986  
 Delta R.T. 0.00 min  
 Lab File: VN057451.D  
 Acq: 22 Aug 2019 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 17.4  | 14.5  | 21.7  |
| 87      | 9.7   | 8.6   | 12.8  |



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: 49.047 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057451.D

Acq: 22 Aug 2019 23:23

Instrument :

MSVOA\_N

ClientSampled :

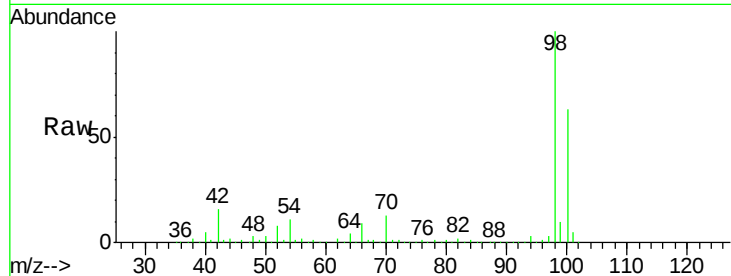
T1-I(2.5)

Tot Ion: 98 Resp: 980762

Ion Ratio Lower Upper

98 100

100 64.0 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

600000

500000

400000

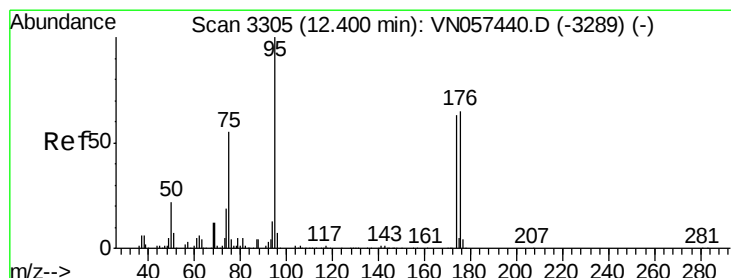
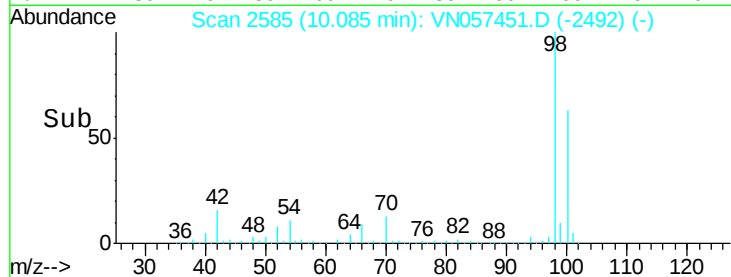
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 37.842 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057451.D

Acq: 22 Aug 2019 23:23

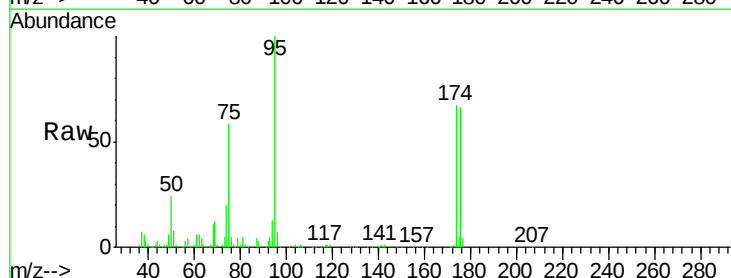
Tgt Ion: 95 Resp: 256435

Ion Ratio Lower Upper

95 100

174 68.2 0.0 133.0

176 65.1 0.0 130.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

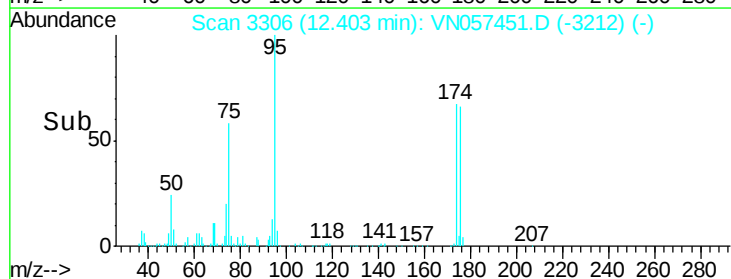
150000

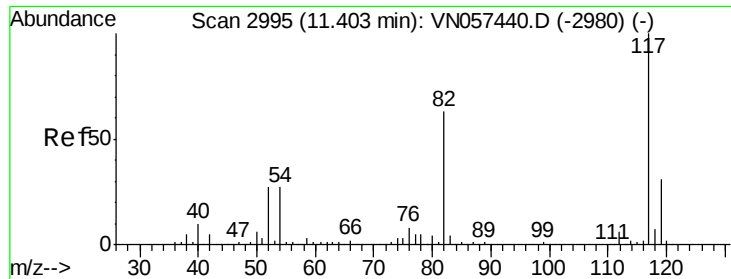
100000

50000

0

Time-->

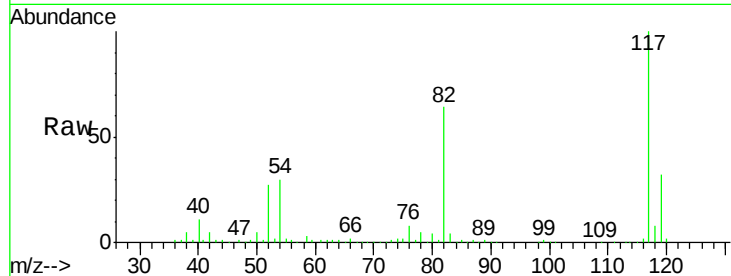




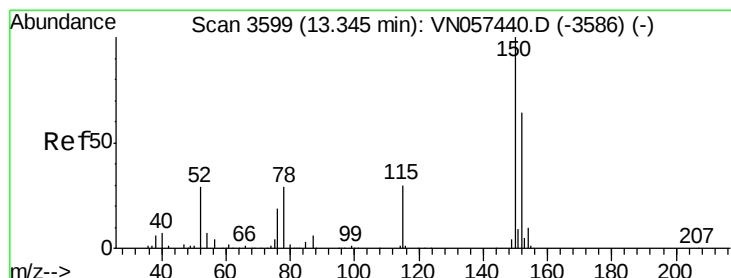
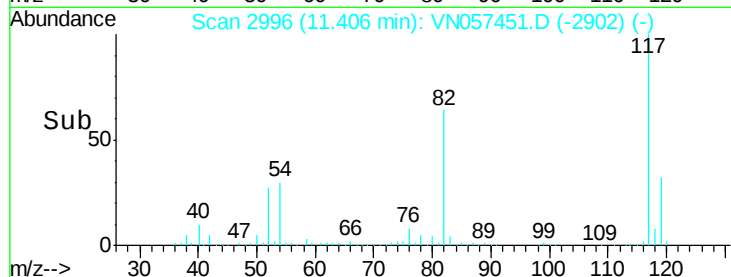
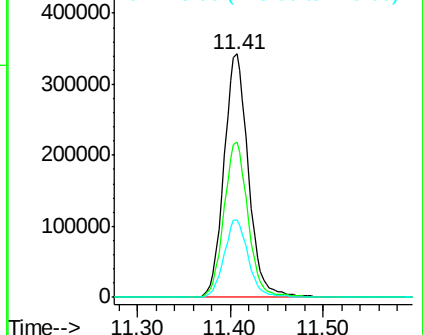
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN057451.D  
Acq: 22 Aug 2019 23:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
T1-I(2.5)

Tot Ion:117 Resp: 625541  
Ion Ratio Lower Upper  
117 100  
82 64.0 50.6 75.8  
119 31.7 24.6 36.8

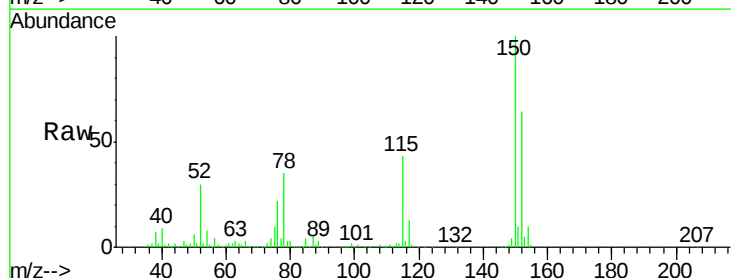


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3600  
Delta R.T. 0.00 min  
Lab File: VN057451.D  
Acq: 22 Aug 2019 23:23

Tgt Ion:152 Resp: 145861  
Ion Ratio Lower Upper  
152 100  
115 66.1 32.0 96.0  
150 155.4 0.0 346.6



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

