

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080119\  
 Data File : VN057030.D  
 Acq On : 1 Aug 2019 12:28  
 Operator : JC/SP  
 Sample : K4097-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB203-TB-20190729

Quant Time: Aug 02 05:35:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 01:33:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 576793   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 839508   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 680884   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 187884   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 319509   | 54.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.22% |          |
| 35) Dibromofluoromethane    | 7.58  | 113  | 287647   | 53.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.04% |          |
| 50) Toluene-d8              | 10.08 | 98   | 1097194  | 53.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.08% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 286557   | 42.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.90%  |          |

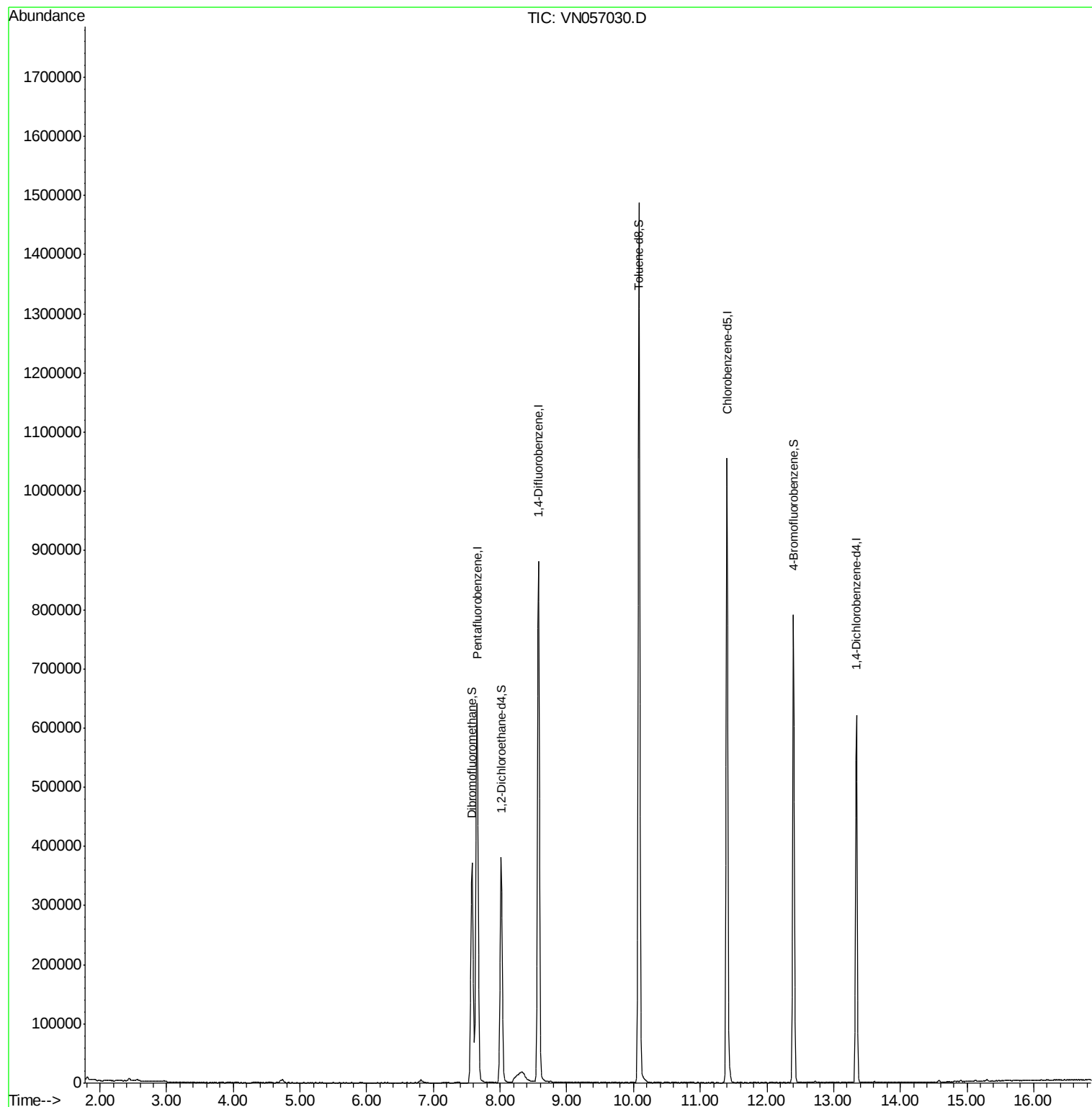
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

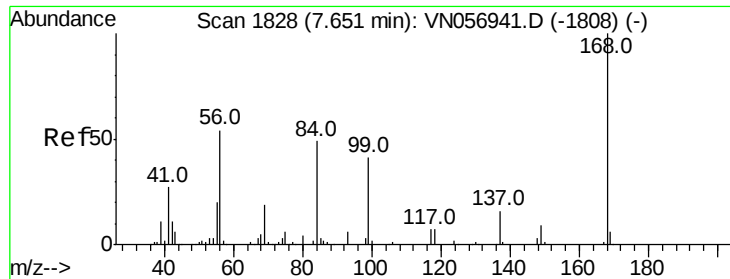
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN080119\  
Data File : VN057030.D  
Acq On : 1 Aug 2019 12:28  
Operator : JC/SP  
Sample : K4097-01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB203-TB-20190729

Quant Time: Aug 02 05:35:05 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N072719W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 27 01:33:29 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057030.D

Acq: 1 Aug 2019 12:28

Instrument :

MSVOA\_N

ClientSampleId :

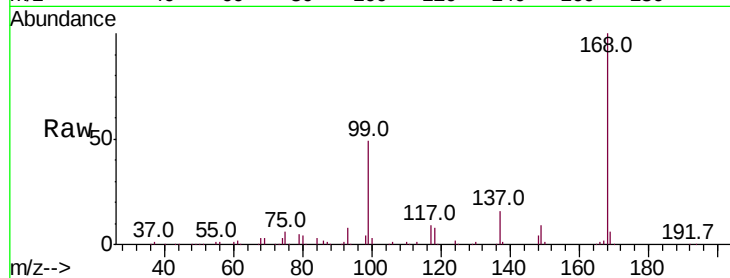
BP-VPB203-TB-20190729

Tot Ion:168 Resp: 576793

Ion Ratio Lower Upper

168 100

99 49.5 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

150000

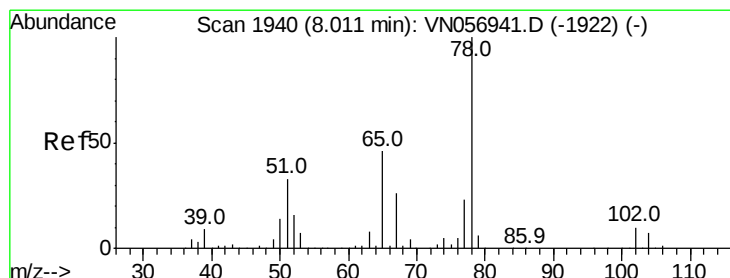
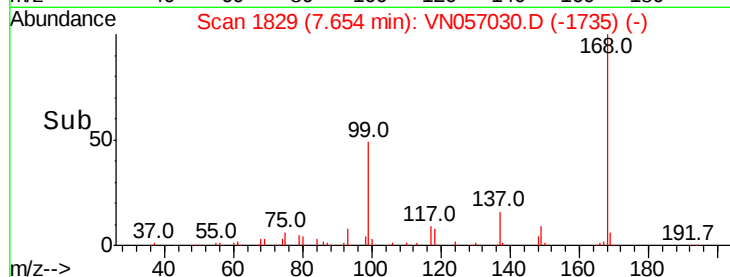
100000

50000

0

7.60 7.70

Time-->



#33

1,2-Dichloroethane-d4

Concen: 54.115 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057030.D

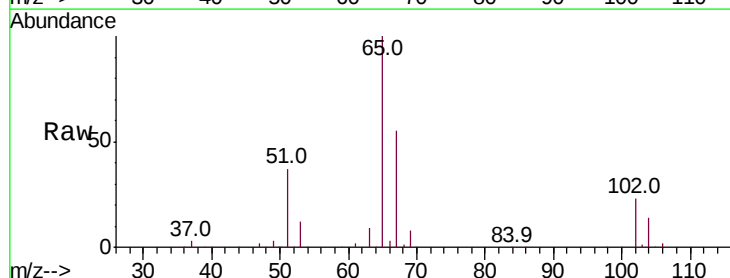
Acq: 1 Aug 2019 12:28

Tgt Ion: 65 Resp: 319509

Ion Ratio Lower Upper

65 100

67 54.9 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VN

8.01

150000

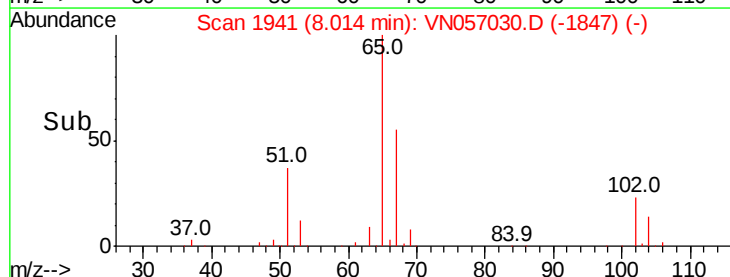
100000

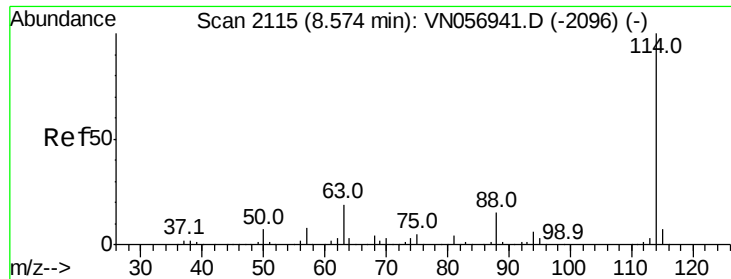
50000

0

7.90 8.00 8.10

Time-->

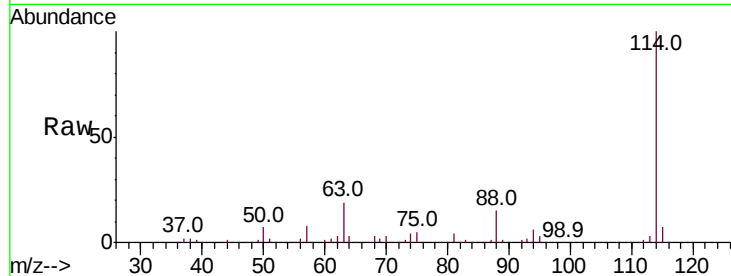




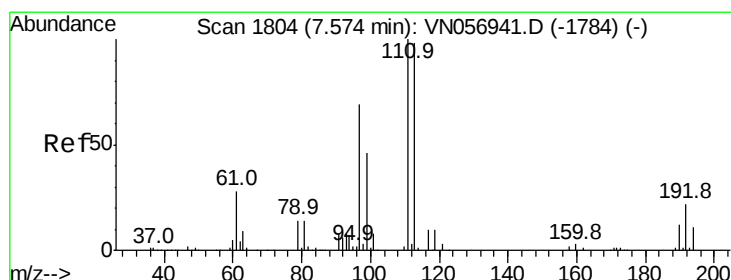
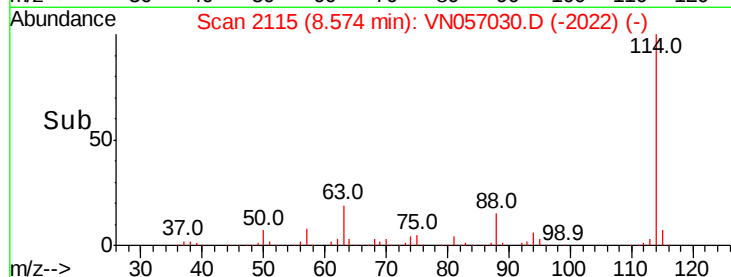
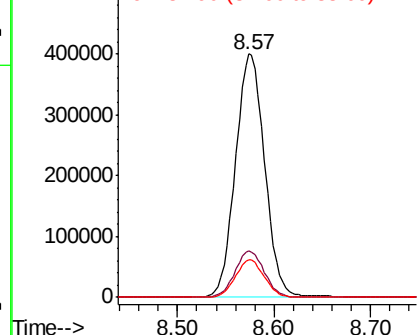
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. 0.00 min  
 Lab File: VN057030.D  
 Acq: 1 Aug 2019 12:28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB203-TB-20190729

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.1  | 0.0   | 38.0  |
| 88      | 15.3  | 0.0   | 30.0  |

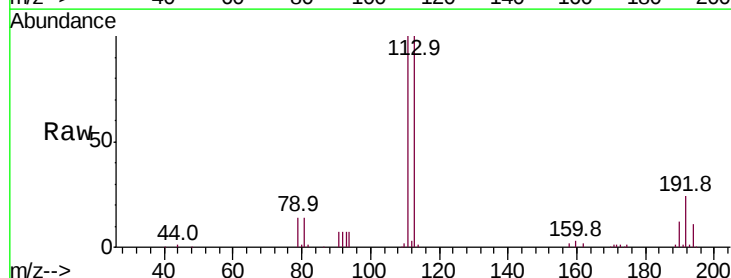


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

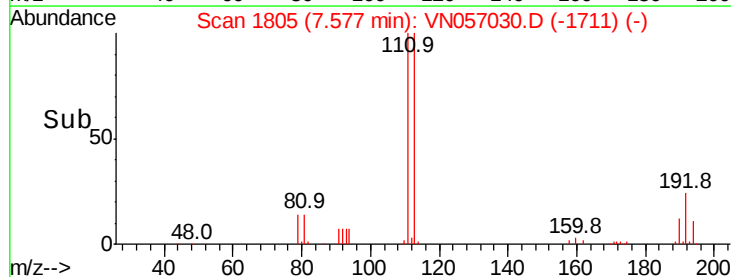
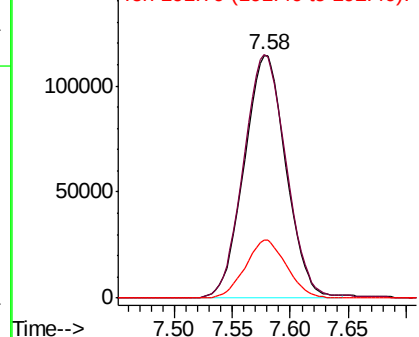


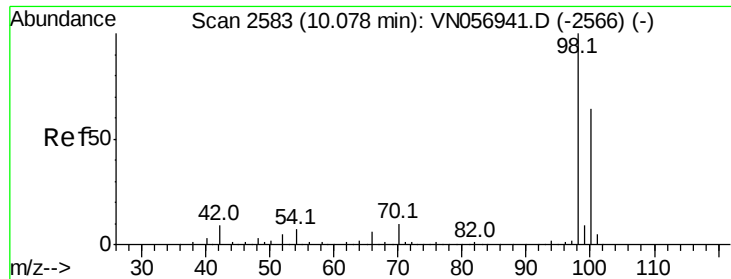
#35  
 Dibromofluoromethane  
 Concen: 53.523 ug/l  
 RT: 7.58 min Scan# 1805  
 Delta R.T. 0.00 min  
 Lab File: VN057030.D  
 Acq: 1 Aug 2019 12:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.4 | 82.0  | 123.0 |
| 192     | 23.7  | 18.4  | 27.6  |



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





#50

Toluene-d8

Concen: 53.536 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057030.D

Acq: 1 Aug 2019 12:28

Instrument :

MSVOA\_N

ClientSampleId :

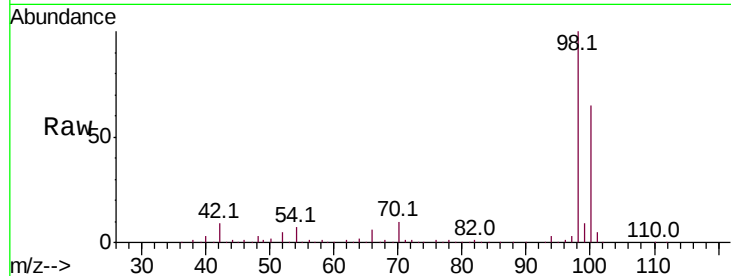
BP-VPB203-TB-20190729

Tot Ion: 98 Resp: 1097194

Ion Ratio Lower Upper

98 100

100 64.5 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

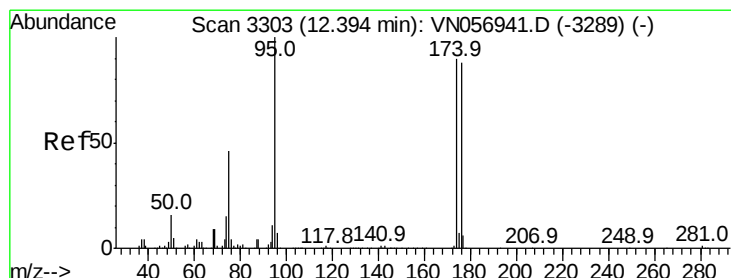
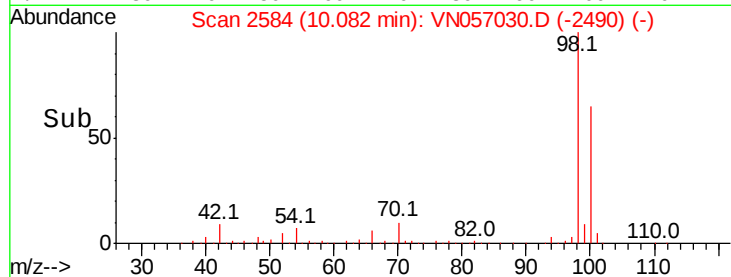
600000

400000

200000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 42.950 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN057030.D

Acq: 1 Aug 2019 12:28

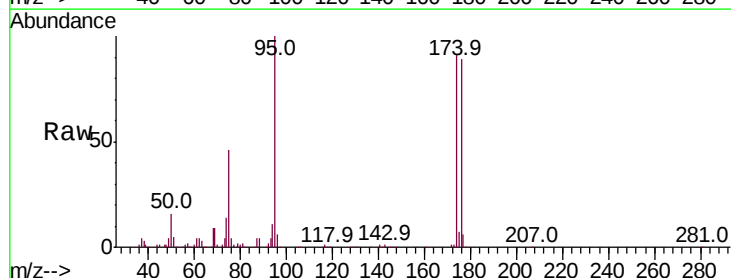
Tgt Ion: 95 Resp: 286557

Ion Ratio Lower Upper

95 100

174 92.2 0.0 182.2

176 89.8 0.0 179.4



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

200000

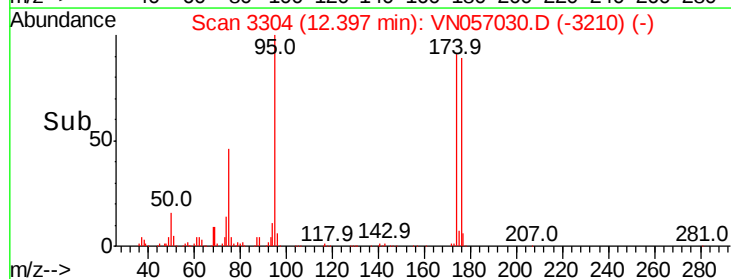
150000

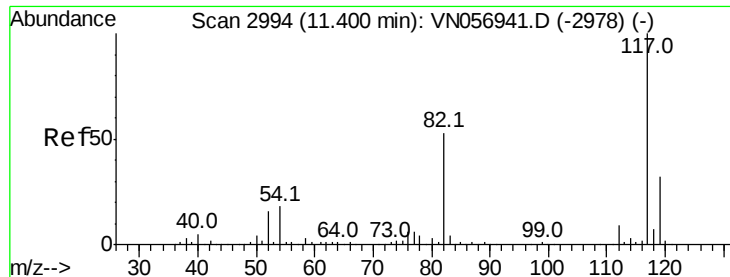
100000

50000

0

Time-->

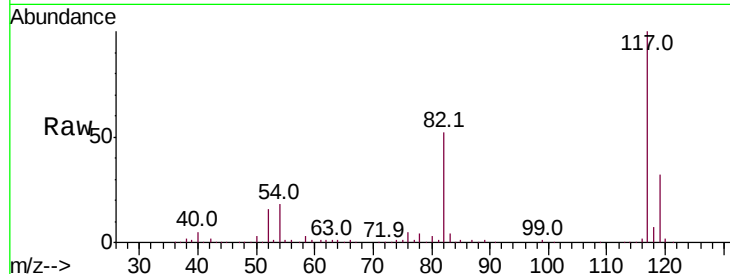




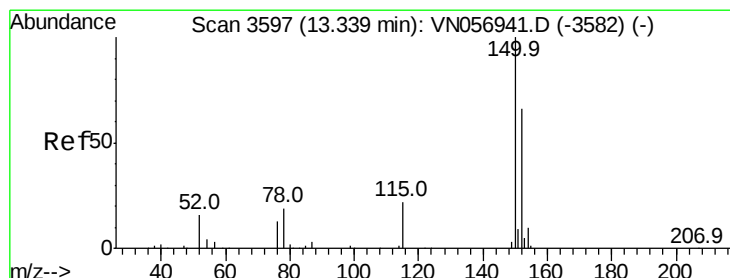
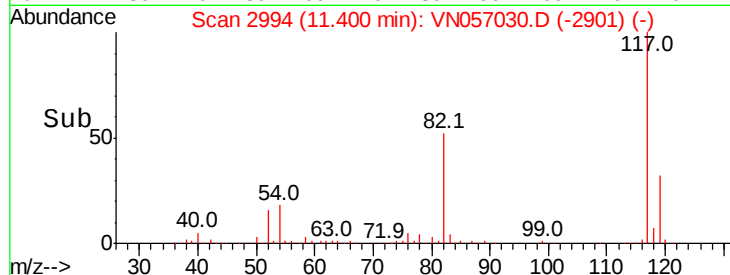
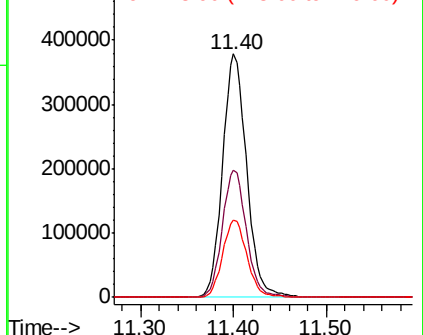
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. 0.00 min  
Lab File: VN057030.D  
Acq: 1 Aug 2019 12:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB203-TB-20190729

Tot Ion:117 Resp: 680884  
Ion Ratio Lower Upper  
117 100  
82 52.3 42.2 63.4  
119 31.7 25.8 38.6

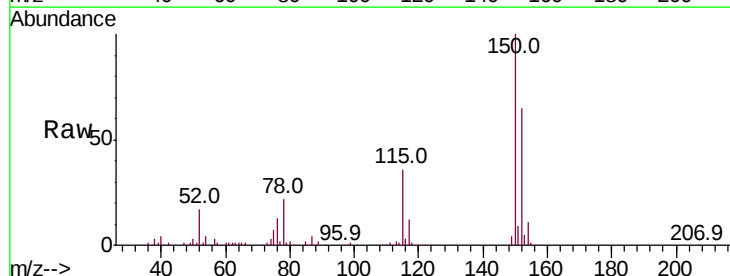


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. 0.00 min  
Lab File: VN057030.D  
Acq: 1 Aug 2019 12:28

Tgt Ion:152 Resp: 187884  
Ion Ratio Lower Upper  
152 100  
115 55.0 28.2 84.6  
150 156.1 0.0 349.4



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

