

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072719\  
 Data File : VN056949.D  
 Acq On : 26 Jul 2019 18:20  
 Operator : JC/SP  
 Sample : K4015-02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-5

Quant Time: Jul 27 01:10:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:47:27 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 740789   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 1082372  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 900457   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 274074   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 8.01   | 65  | 354951   | 46.81 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.62% |      |
| 35) Dibromofluoromethane    | 7.58   | 113 | 328280   | 47.38 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.76% |      |
| 50) Toluene-d8              | 10.08  | 98  | 1267090  | 47.95 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.90% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 350620   | 40.76 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 81.52% |      |

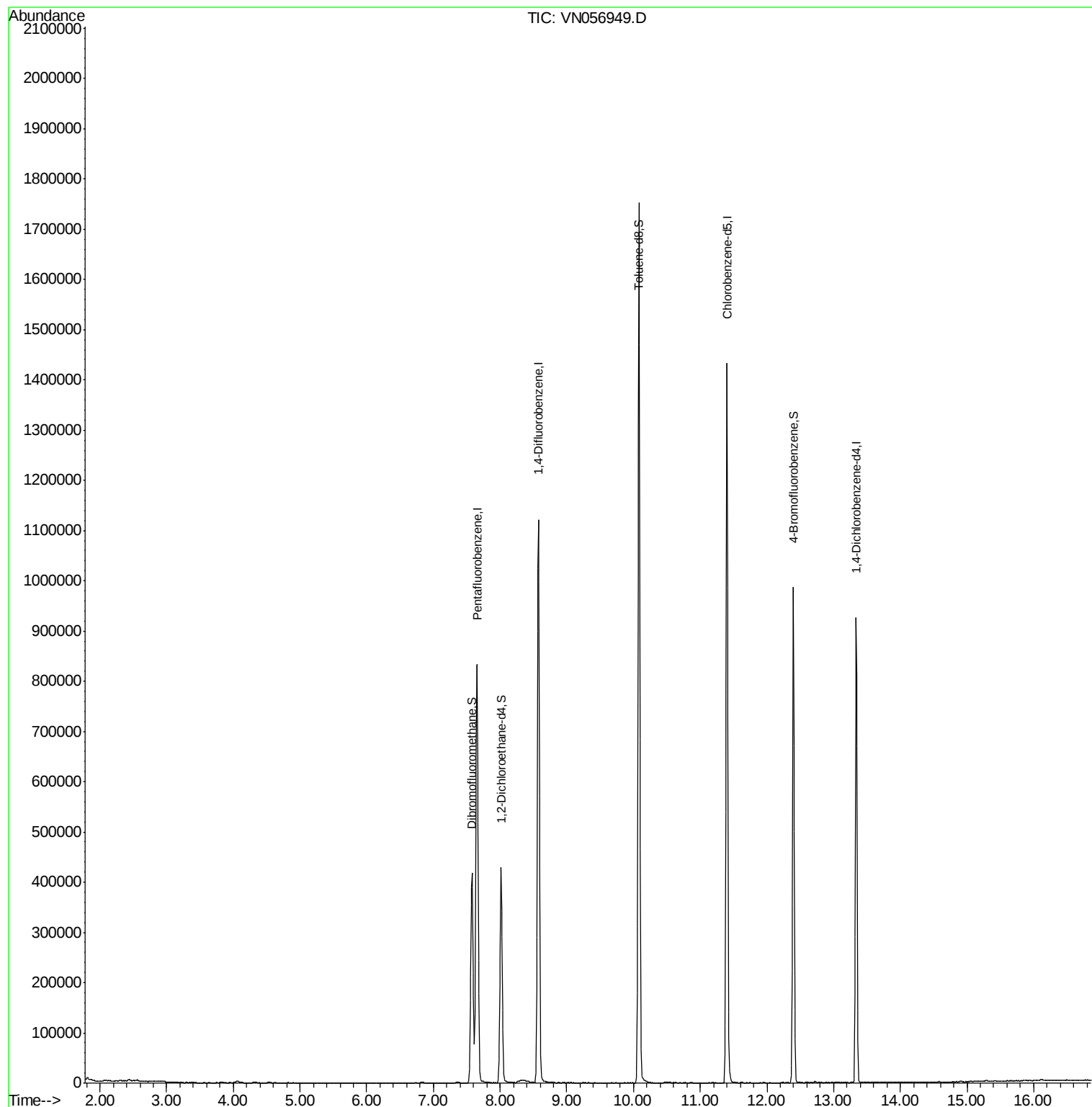
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

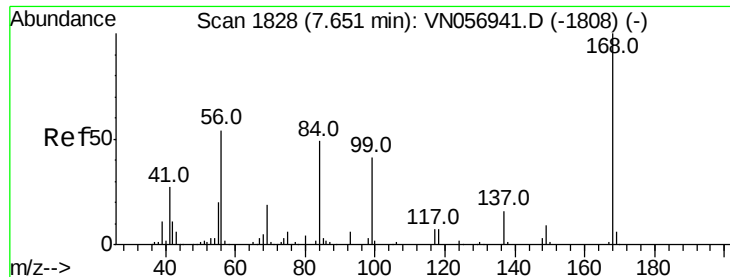
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN072719\  
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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

Quant Time: Jul 27 01:10:50 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N072719W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:47:27 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: VN056949.D

Acq: 26 Jul 2019 18:20

Instrument :

MSVOA\_N

ClientSampleId :

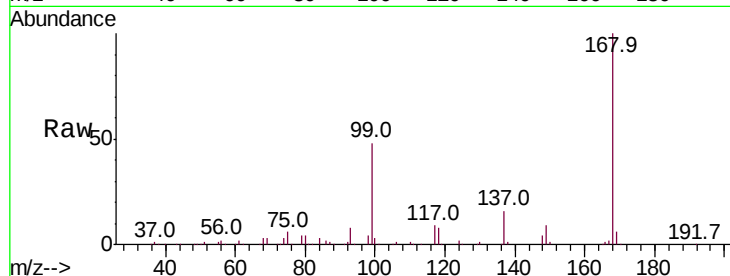
STORAGE-BLANK-WATER-REF-5

Tot Ion:168 Resp: 740789

Ion Ratio Lower Upper

168 100

99 48.3 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

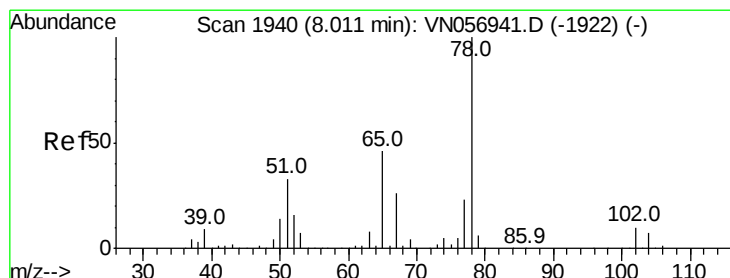
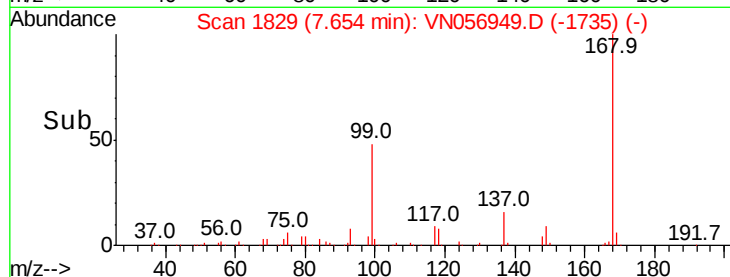
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#33

1,2-Dichloroethane-d4

Concen: 46.809 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN056949.D

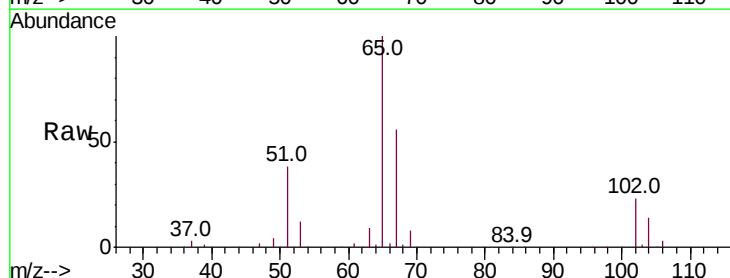
Acq: 26 Jul 2019 18:20

Tgt Ion: 65 Resp: 354951

Ion Ratio Lower Upper

65 100

67 55.4 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

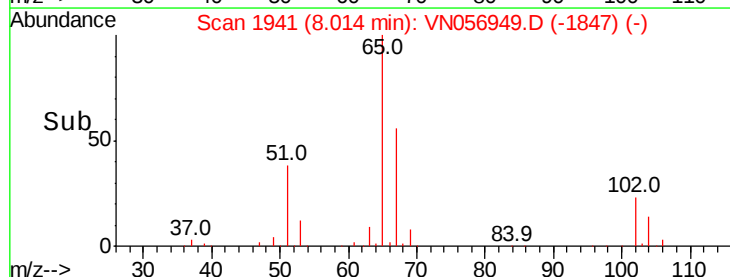
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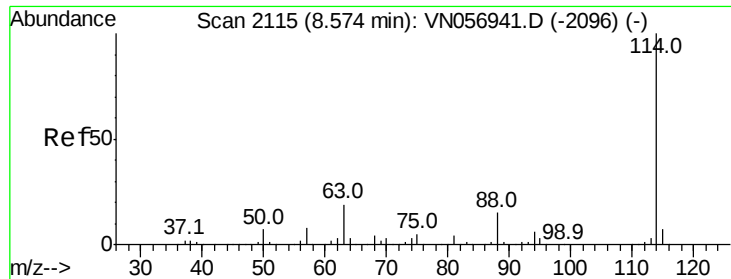
100000

50000

0

Time--> 7.90 8.00 8.10



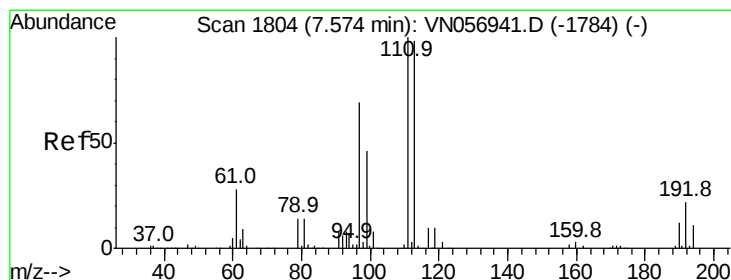
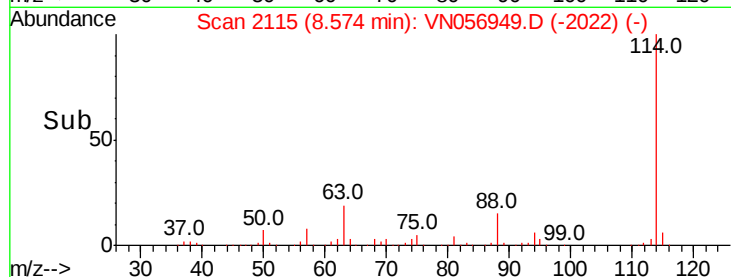
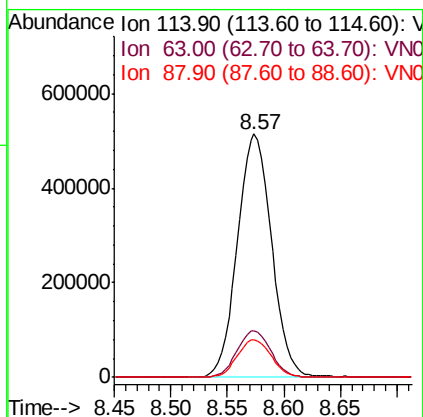
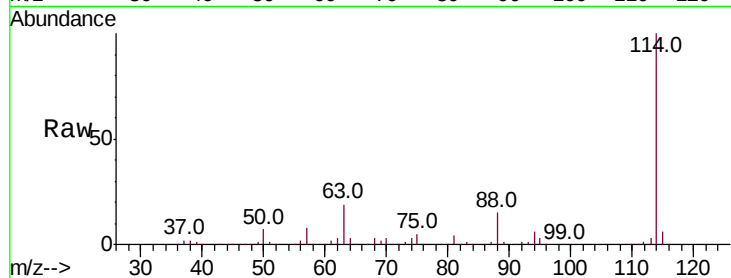


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. 0.00 min  
 Lab File: VN056949.D  
 Acq: 26 Jul 2019 18:20

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-5

Tot Ion:114 Resp: 1082372  

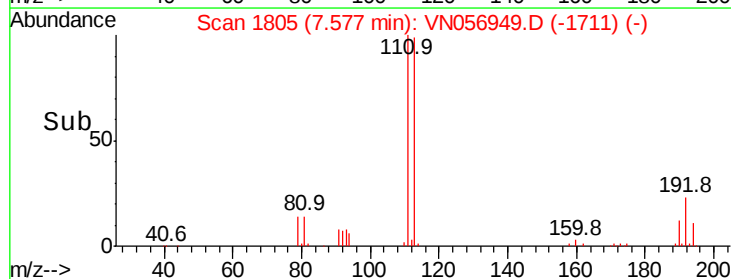
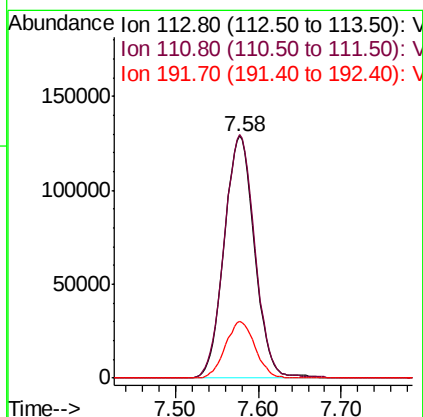
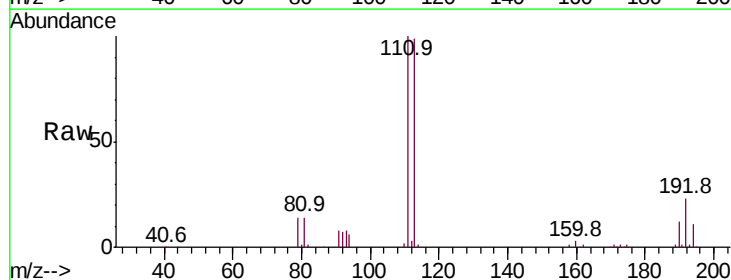
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 19.2  | 0.0   | 38.0  |
| 88  | 15.5  | 0.0   | 30.0  |

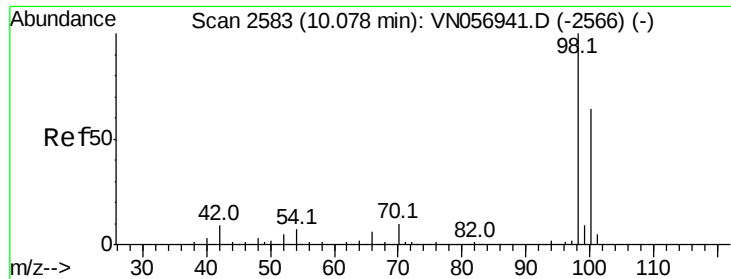


#35  
 Dibromofluoromethane  
 Concen: 47.378 ug/l  
 RT: 7.58 min Scan# 1805  
 Delta R.T. 0.00 min  
 Lab File: VN056949.D  
 Acq: 26 Jul 2019 18:20

Tgt Ion:113 Resp: 328280  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 101.3 | 82.0  | 123.0 |
| 192 | 23.0  | 18.4  | 27.6  |

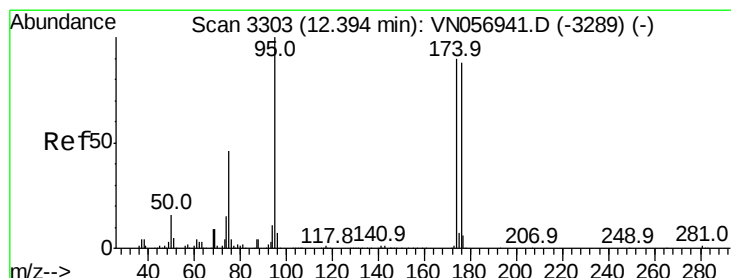
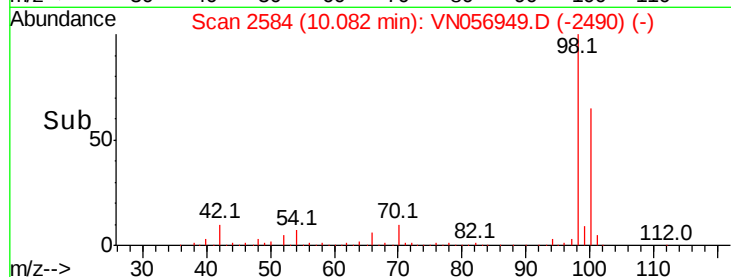
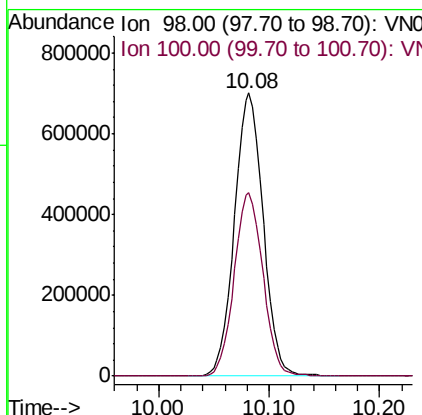
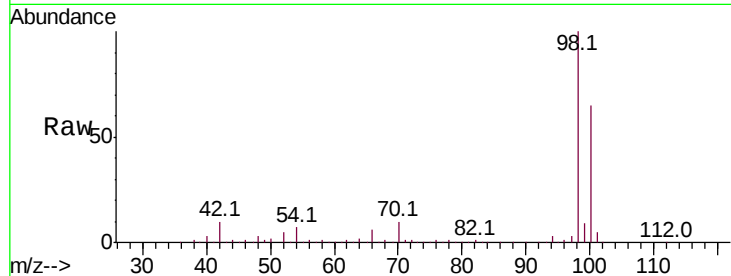




#50  
Toluene-d8  
Concen: 47.953 ug/l  
RT: 10.08 min Scan# 2584  
Delta R.T. 0.00 min  
Lab File: VN056949.D  
Acq: 26 Jul 2019 18:20

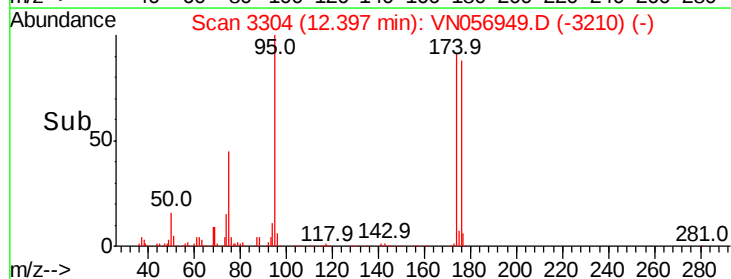
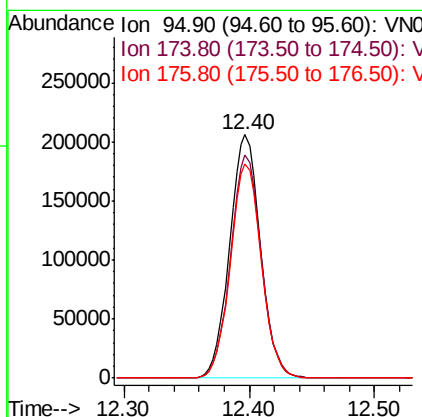
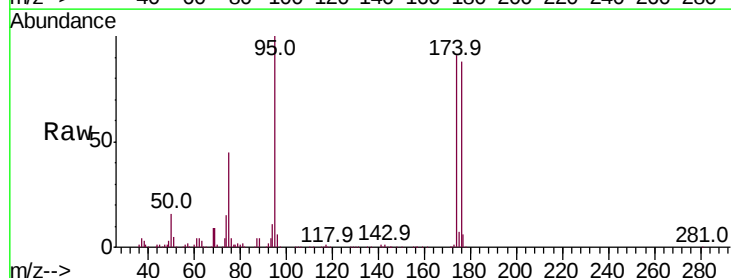
Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

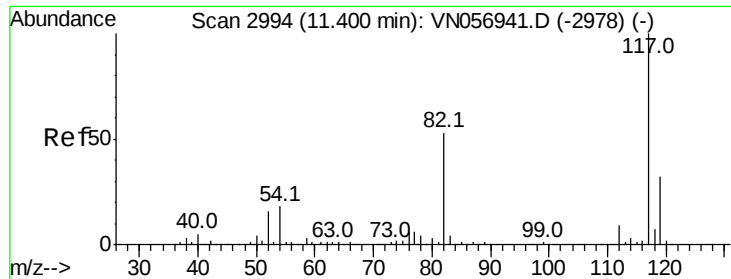
Tot Ion: 98 Resp: 1267090  
Ion Ratio Lower Upper  
98 100  
100 65.0 51.3 76.9



#62  
4-Bromofluorobenzene  
Concen: 40.760 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. 0.00 min  
Lab File: VN056949.D  
Acq: 26 Jul 2019 18:20

Tgt Ion: 95 Resp: 350620  
Ion Ratio Lower Upper  
95 100  
174 91.6 0.0 182.2  
176 88.6 0.0 179.4

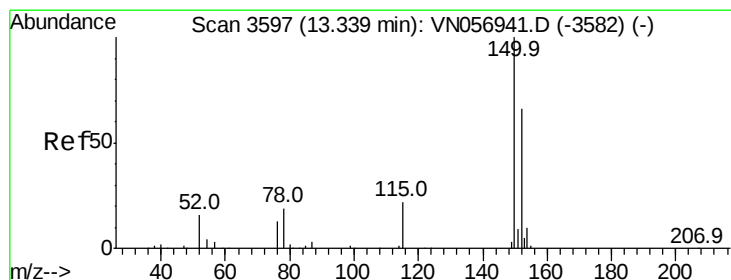
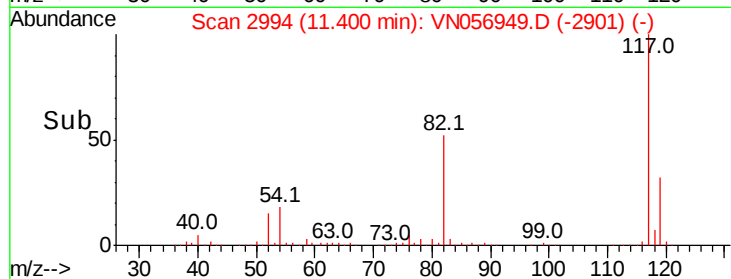
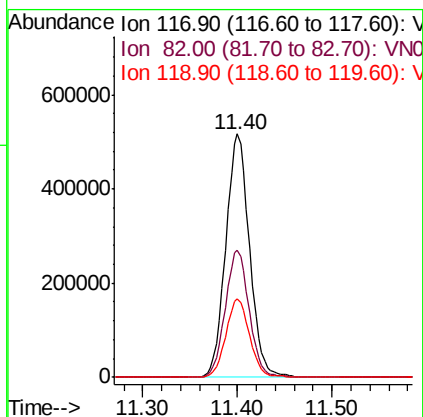
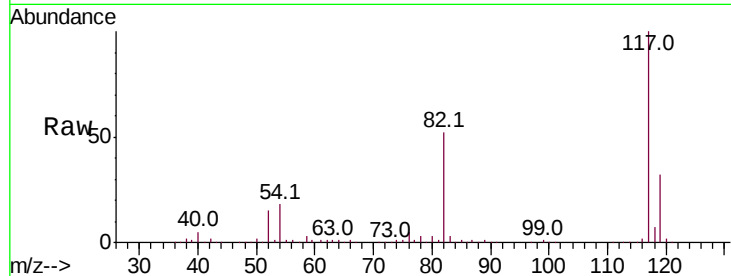




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. 0.00 min  
Lab File: VN056949.D  
Acq: 26 Jul 2019 18:20

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

Tot Ion:117 Resp: 900457  
Ion Ratio Lower Upper  
117 100  
82 52.3 42.2 63.4  
119 32.0 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3597  
Delta R.T. 0.00 min  
Lab File: VN056949.D  
Acq: 26 Jul 2019 18:20

Tgt Ion:152 Resp: 274074  
Ion Ratio Lower Upper  
152 100  
115 55.5 28.2 84.6  
150 155.9 0.0 349.4

