

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032619\  
 Data File : VN054703.D  
 Acq On : 26 Mar 2019 18:15  
 Operator : JC/SP  
 Sample : K2106-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TRIP-BLANK

Quant Time: Mar 27 05:06:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 02:09:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 546483   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 866141   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 726289   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 245153   | 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   | 345298   | 50.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.60% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 275269   | 49.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.66%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1040479  | 49.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.20%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 311859   | 43.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.38%  |          |

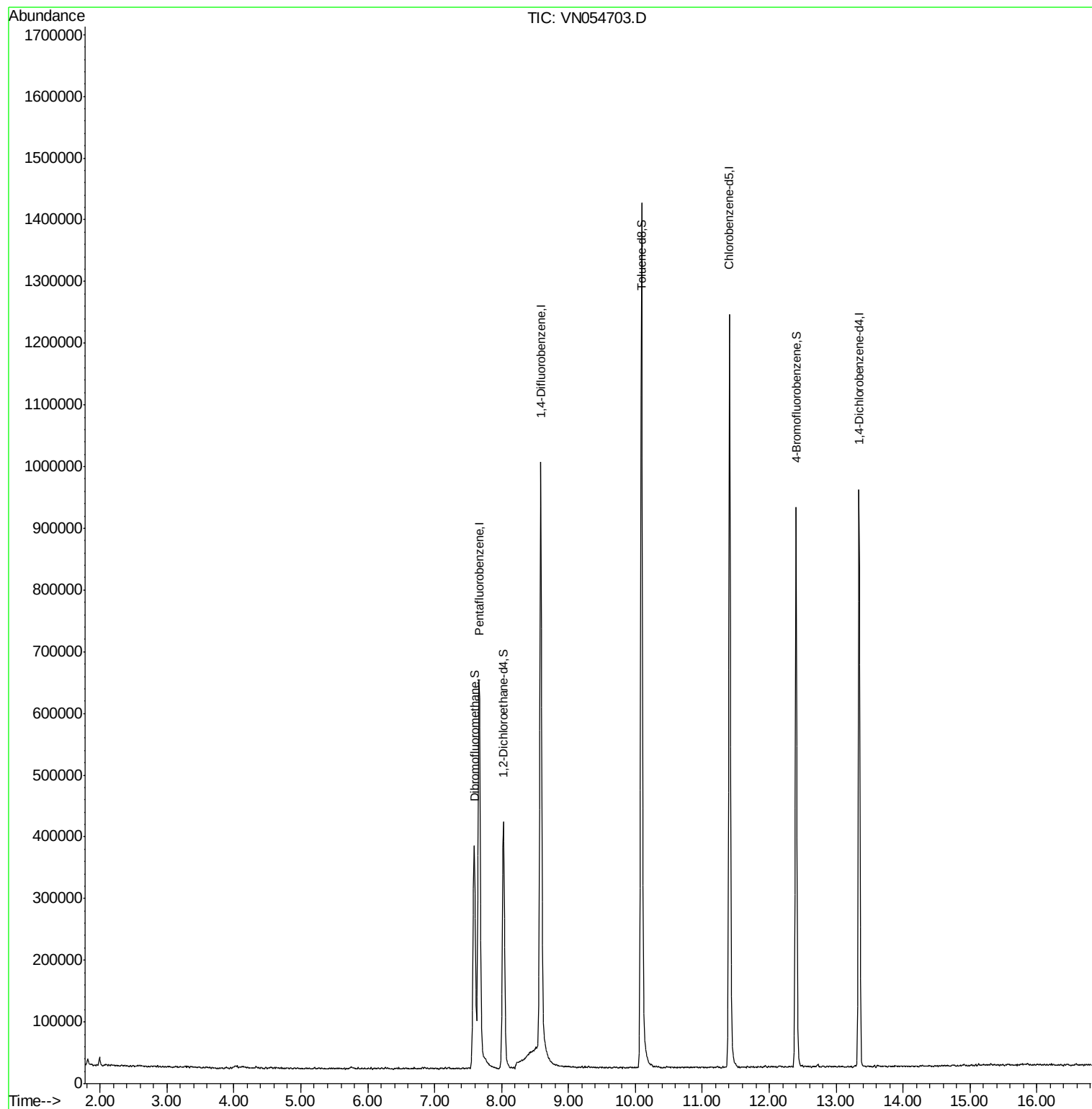
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

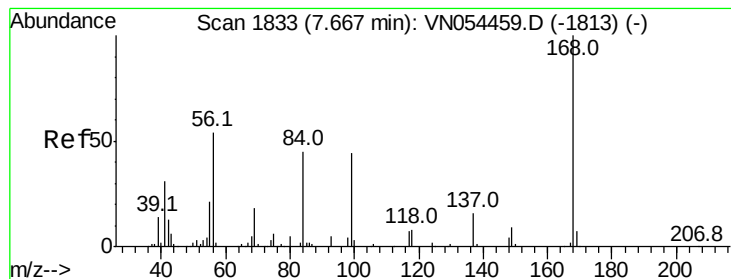
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_N  
ClientSampleId :  
TRIP-BLANK

Quant Time: Mar 27 05:06:36 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 22 02:09:07 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054703.D

Acq: 26 Mar 2019 18:15

Instrument :

MSVOA\_N

ClientSampleId :

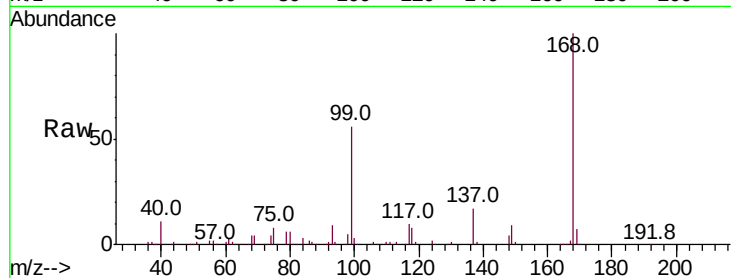
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Tot Ion:168 Resp: 546483

Ion Ratio Lower Upper

168 100

99 55.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

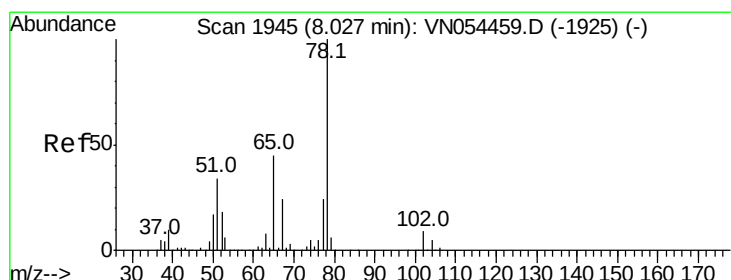
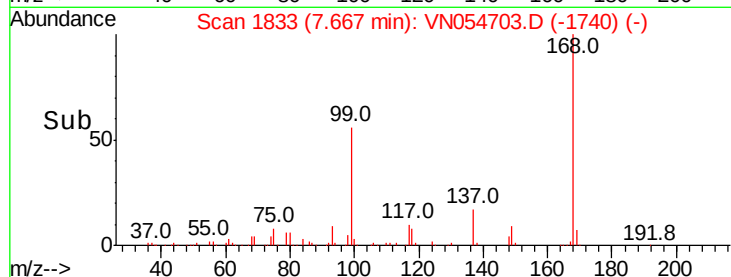
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#33

1,2-Dichloroethane-d4

Concen: 50.799 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054703.D

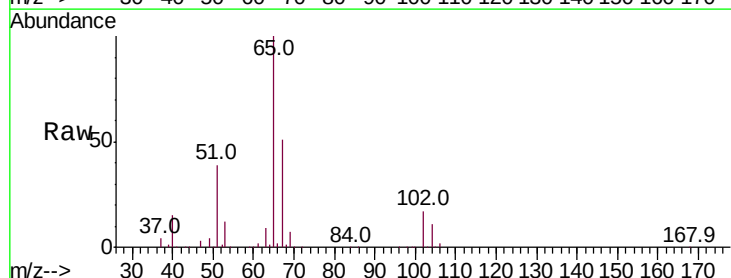
Acq: 26 Mar 2019 18:15

Tgt Ion: 65 Resp: 345298

Ion Ratio Lower Upper

65 100

67 52.9 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VN

8.03

150000

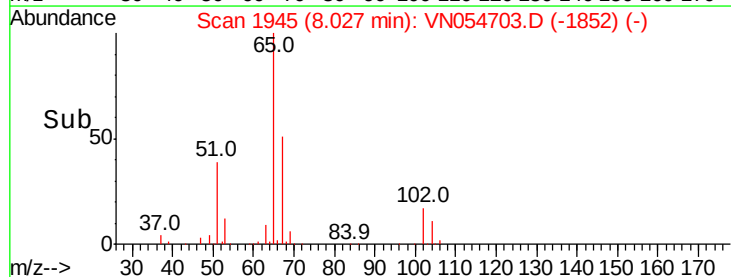
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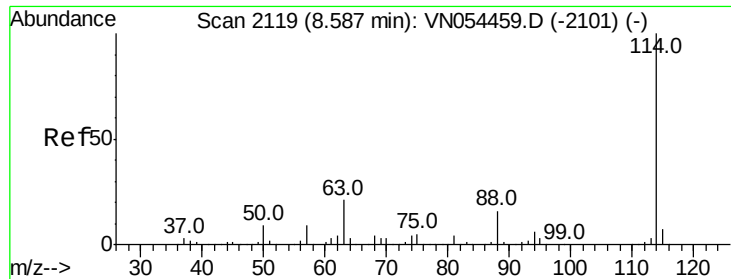
50000

0

7.90 8.00 8.10

Time-->

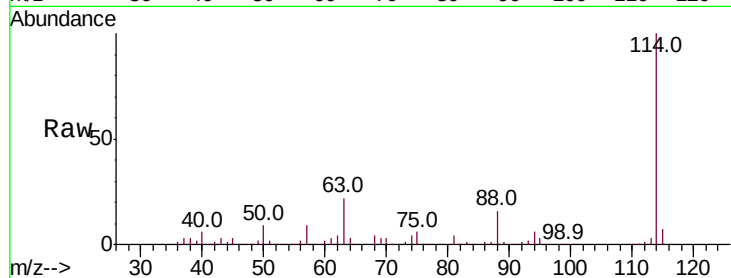




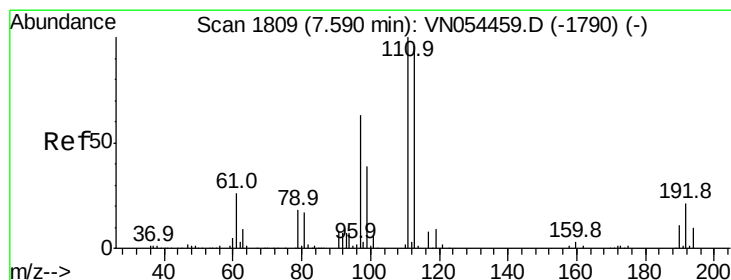
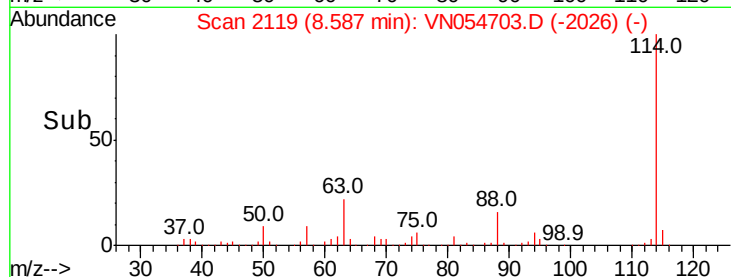
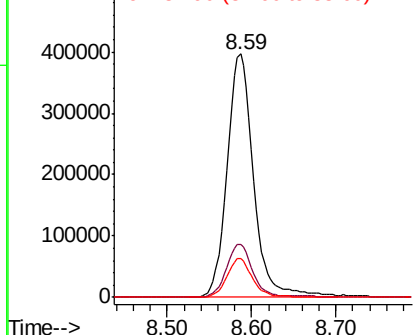
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN054703.D  
 Acq: 26 Mar 2019 18:15

Instrument :  
 MSVOA\_N  
 ClientSampled :  
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Tot Ion:114 Resp: 866141  
 Ion Ratio Lower Upper  
 114 100  
 63 21.9 0.0 35.2  
 88 16.1 0.0 30.2

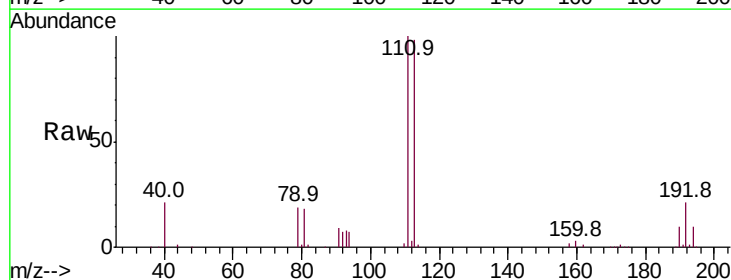


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

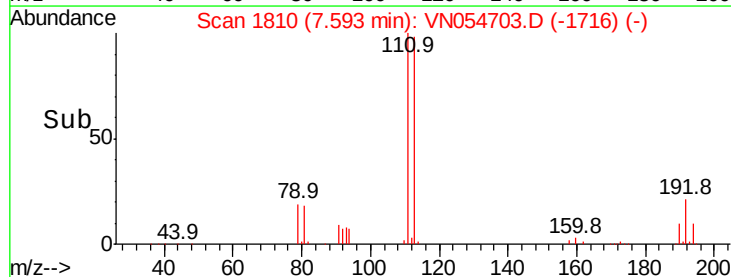
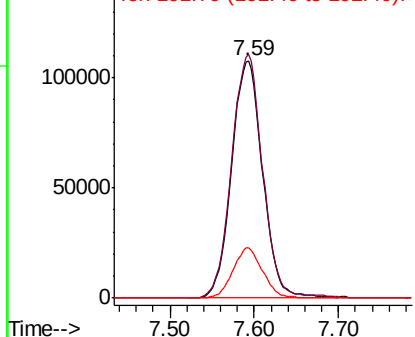


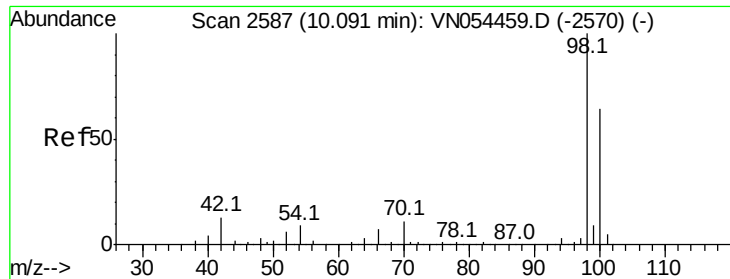
#35  
 Dibromofluoromethane  
 Concen: 49.330 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN054703.D  
 Acq: 26 Mar 2019 18:15

Tgt Ion:113 Resp: 275269  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 82.2 123.4  
 192 20.3 19.2 28.8



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: 49.599 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054703.D

Acq: 26 Mar 2019 18:15

Instrument :

MSVOA\_N

ClientSampleId :

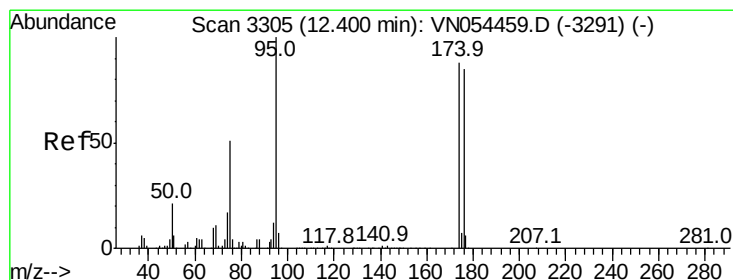
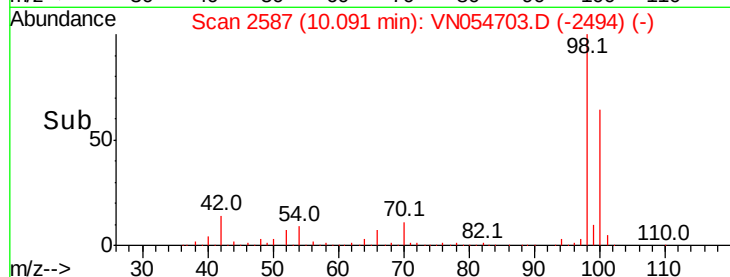
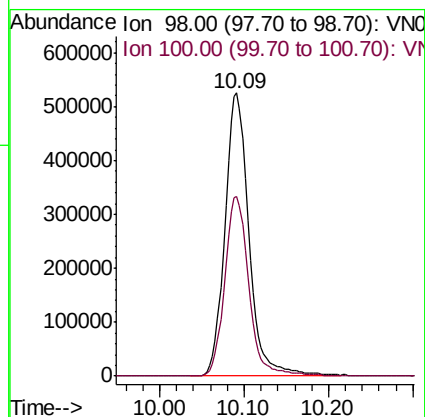
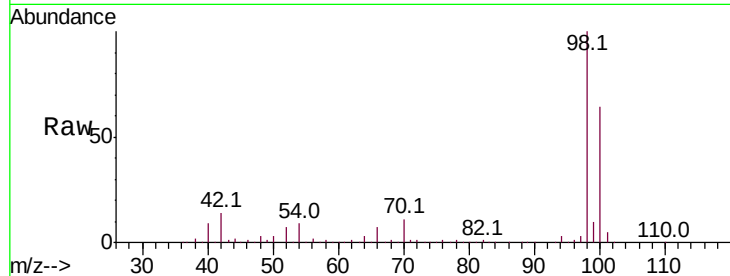
TRIP-BLANK

Tot Ion: 98 Resp: 1040479

Ion Ratio Lower Upper

98 100

100 63.9 51.2 76.8



#62

4-Bromofluorobenzene

Concen: 43.688 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054703.D

Acq: 26 Mar 2019 18:15

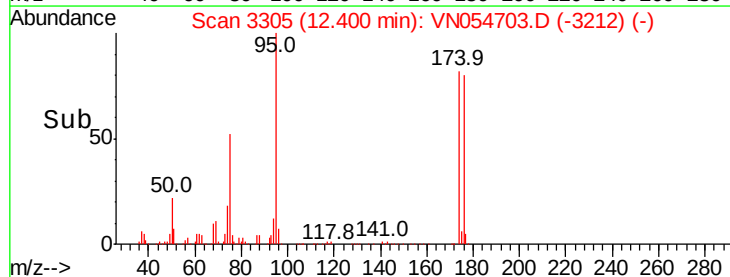
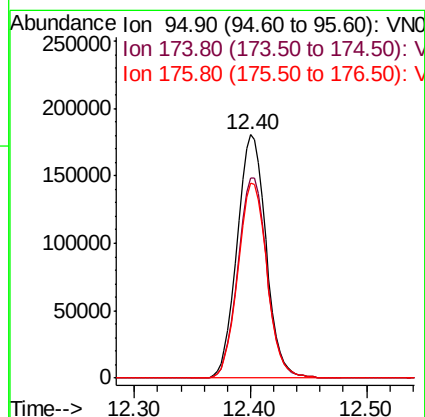
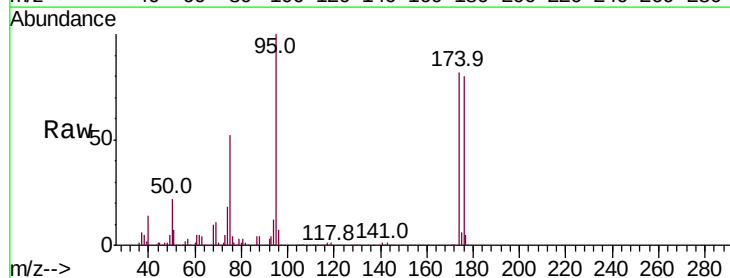
Tgt Ion: 95 Resp: 311859

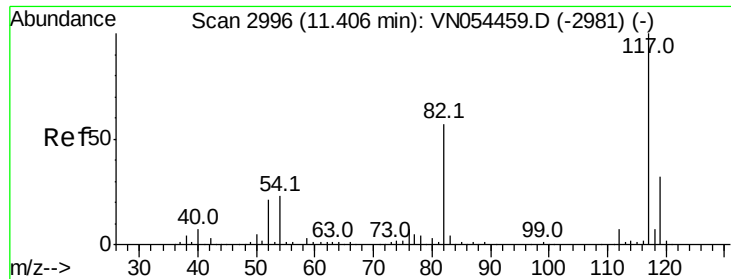
Ion Ratio Lower Upper

95 100

174 82.9 0.0 191.0

176 80.5 0.0 187.4

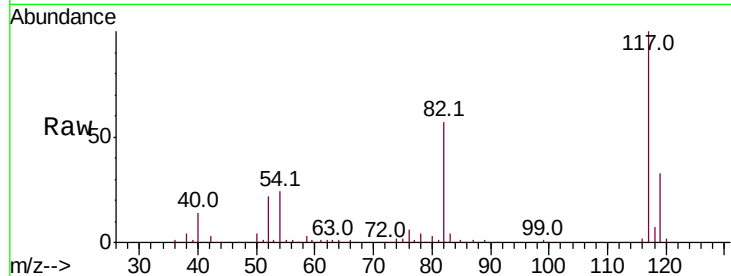




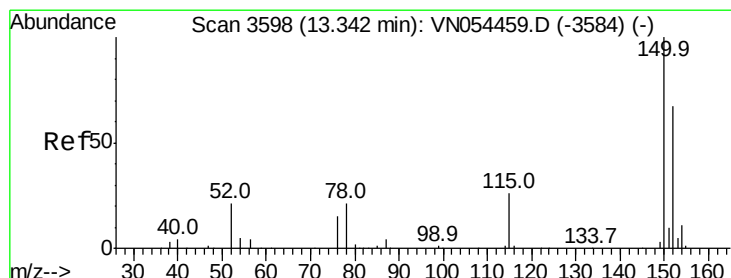
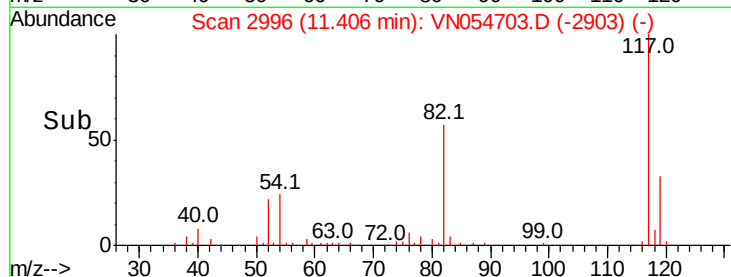
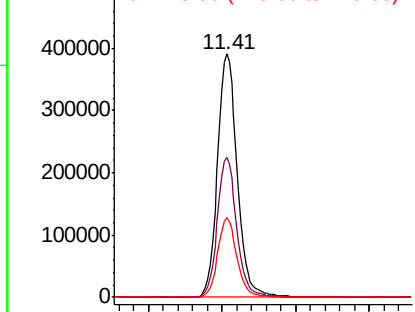
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN054703.D  
Acq: 26 Mar 2019 18:15

Instrument :  
MSVOA\_N  
ClientSampled :  
TRIP-BLANK

Tot Ion:117 Resp: 726289  
Ion Ratio Lower Upper  
117 100  
82 57.5 40.0 60.0  
119 32.5 25.8 38.6

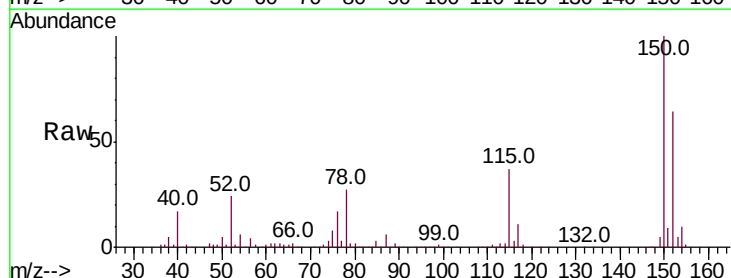


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. -0.00 min  
Lab File: VN054703.D  
Acq: 26 Mar 2019 18:15

Tgt Ion:152 Resp: 245153  
Ion Ratio Lower Upper  
152 100  
115 58.3 27.2 81.6  
150 158.9 0.0 349.2



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

