

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN041619\  
 Data File : VN055072.D  
 Acq On : 16 Apr 2019 12:29  
 Operator : JC/SP  
 Sample : VN0416WBL02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0416WBL02

Quant Time: Apr 16 13:07:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Apr 12 07:55:25 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.20  | 128  | 69422    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.58  | 114  | 367885   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 307349   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4   | 8.03   | 65    | 162561   | 30.72    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 50 - 169 | Recovery | =    | 102.40% |
| 60) 4-Bromofluorobenzene    | 12.40  | 95    | 108769   | 22.73    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 56 - 143 | Recovery | =    | 75.77%  |
| 63) Toluene-d8              | 10.09  | 98    | 448079   | 30.66    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 66 - 137 | Recovery | =    | 102.20% |

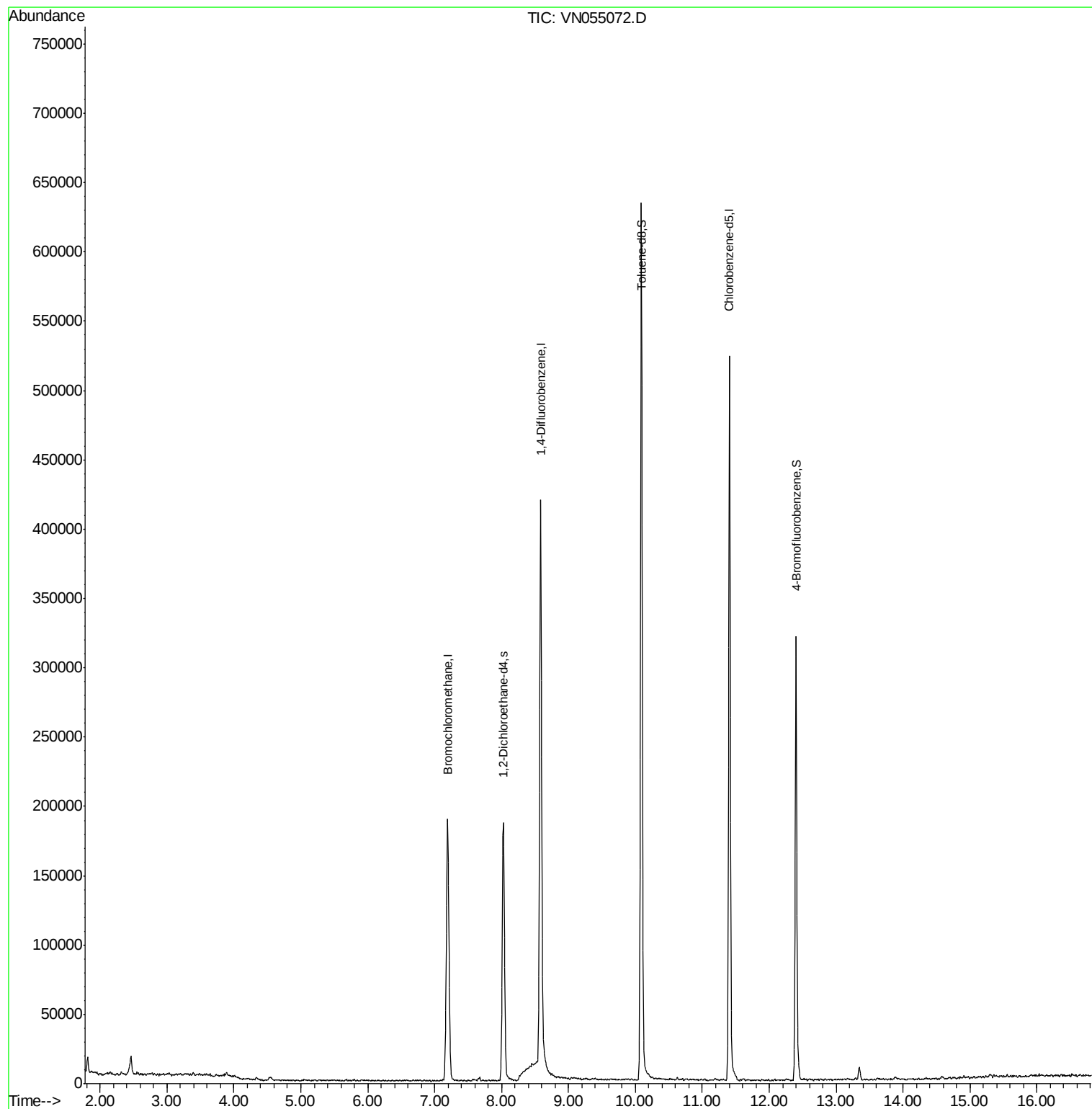
| Target Compounds | Ovalue |
|------------------|--------|
| -----            |        |

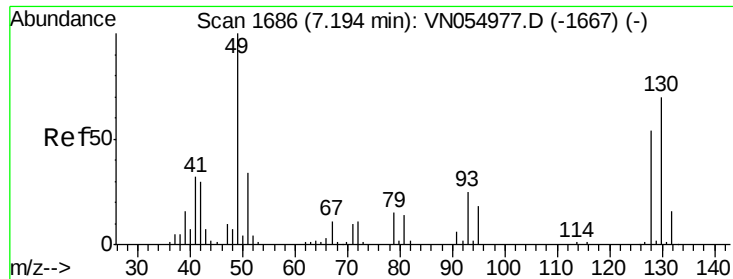
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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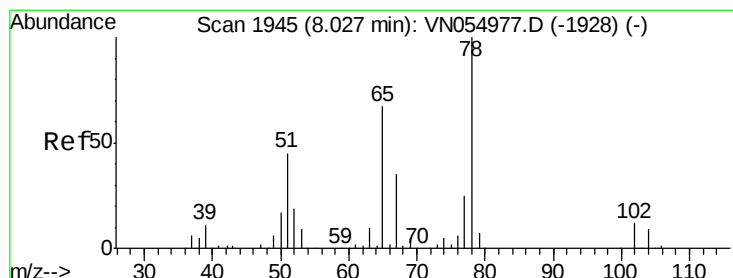
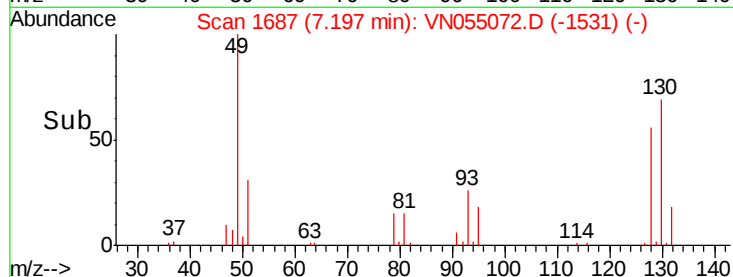
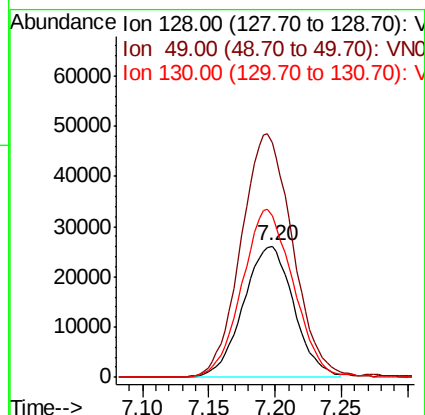
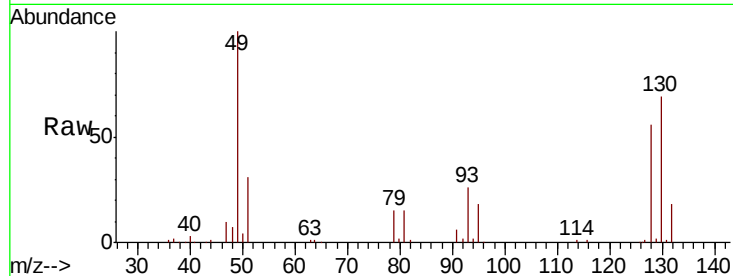




#1  
 Bromochloromethane  
 Concen: 30.000 ug/l  
 RT: 7.20 min Scan# 1687  
 Delta R.T. 0.00 min  
 Lab File: VN055072.D  
 Acq: 16 Apr 2019 12:29

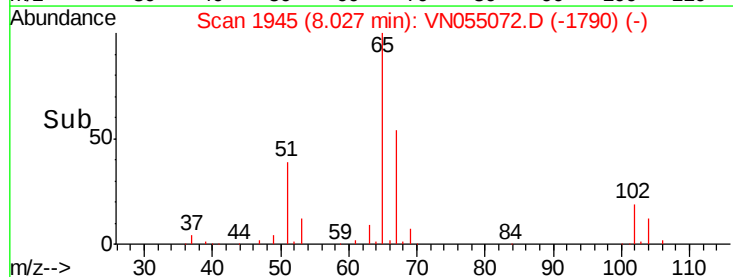
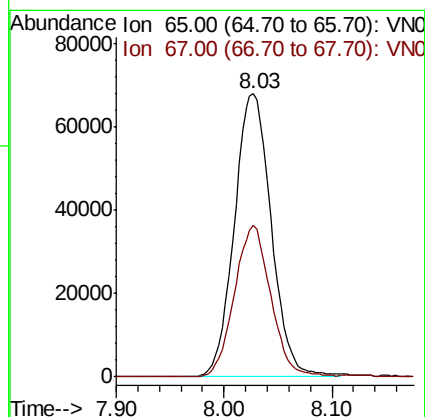
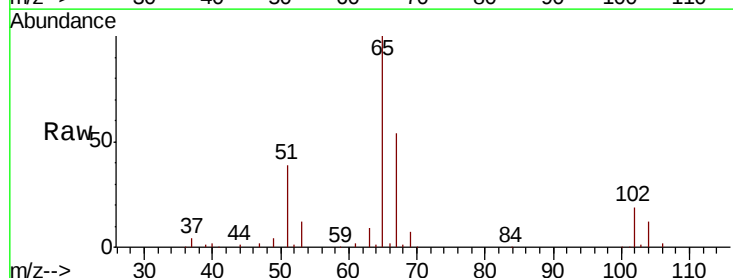
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0416WBL02

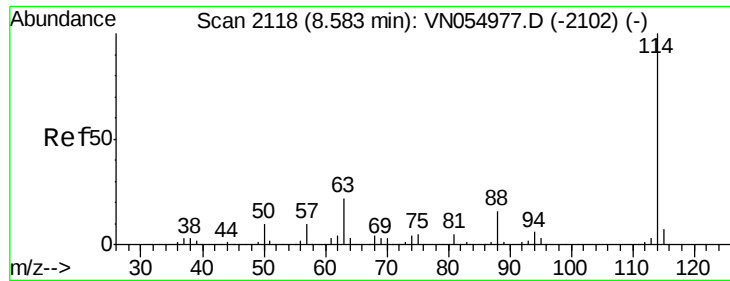
Tot Ion:128 Resp: 69422  
 Ion Ratio Lower Upper  
 128 100  
 49 189.6 0.0 480.3  
 130 130.4 0.0 322.2



#27  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN055072.D  
 Acq: 16 Apr 2019 12:29

Tgt Ion: 65 Resp: 162561  
 Ion Ratio Lower Upper  
 65 100  
 67 52.6 41.8 62.8

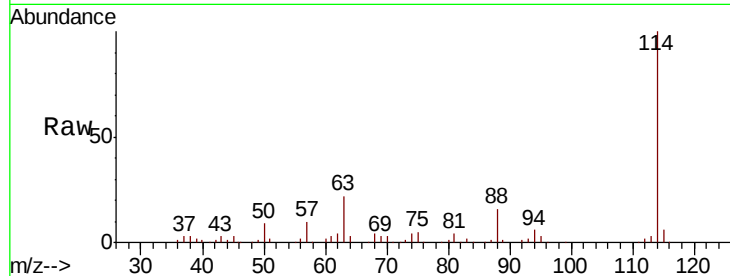




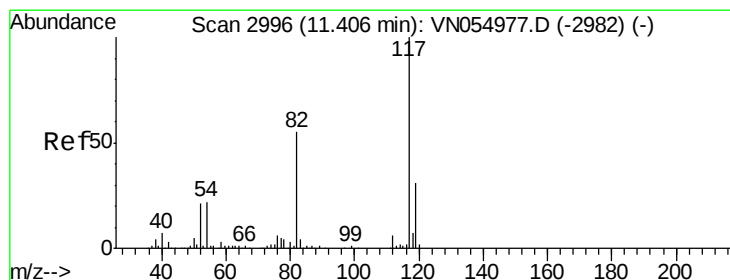
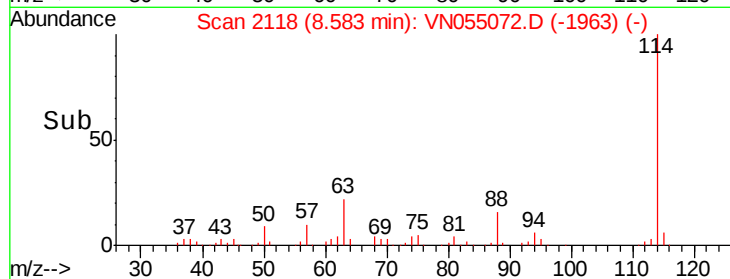
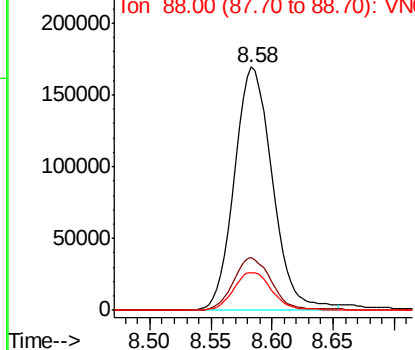
#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 8.58 min Scan# 2118  
Delta R.T. -0.00 min  
Lab File: VN055072.D  
Acq: 16 Apr 2019 12:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0416WBL02

Tot Ion:114 Resp: 367885  
Ion Ratio Lower Upper  
114 100  
63 21.6 17.0 25.4  
88 15.5 12.3 18.5

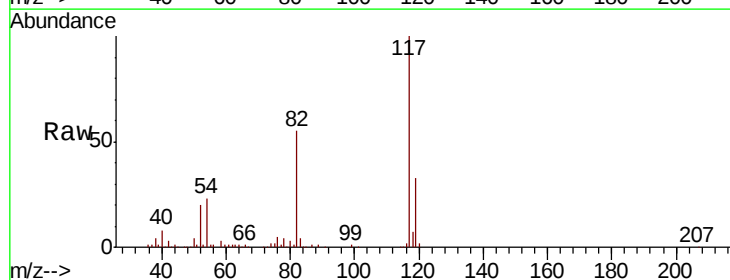


Abundance Ion 114.00 (113.70 to 114.70): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 88.00 (87.70 to 88.70): VN

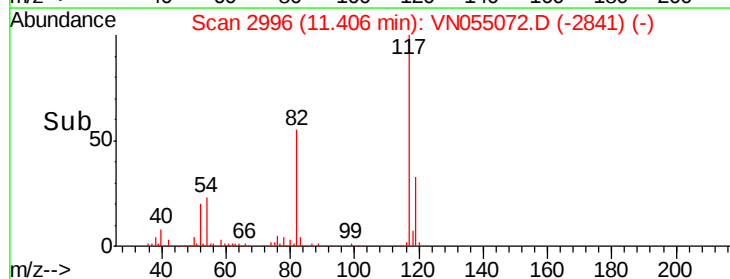
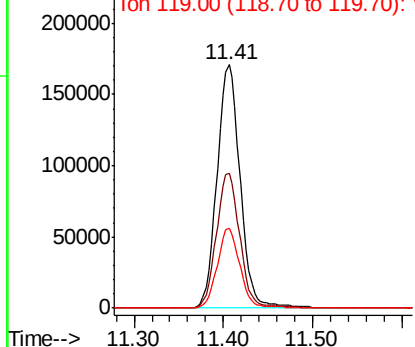


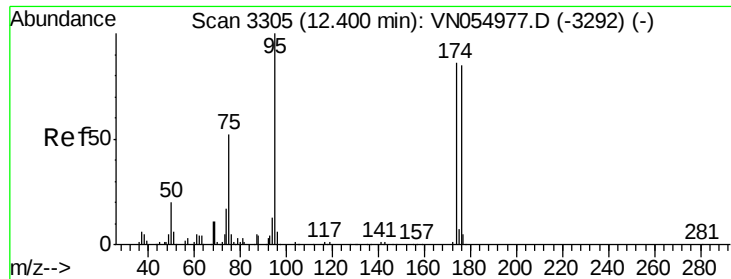
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN055072.D  
Acq: 16 Apr 2019 12:29

Tgt Ion:117 Resp: 307349  
Ion Ratio Lower Upper  
117 100  
82 55.7 45.2 67.8  
119 31.7 25.4 38.2



Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VN  
Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055072.D

Acq: 16 Apr 2019 12:29

Instrument :

MSVOA\_N

ClientSampleId :

VN0416WBL02

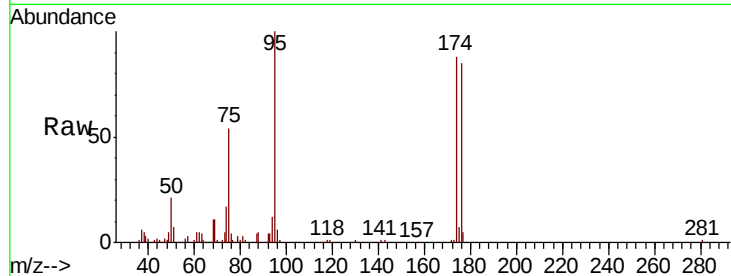
Tot Ion: 95 Resp: 108769

Ion Ratio Lower Upper

95 100

174 87.4 69.4 104.2

176 83.7 67.4 101.2

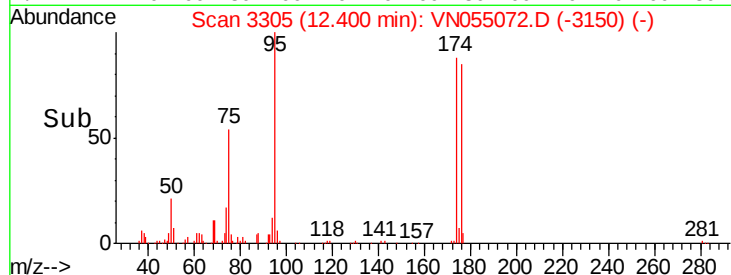


Abundance Ion 95.00 (94.70 to 95.70): VN055072.D (-3150) (-)

Ion 174.00 (173.70 to 174.70): VN055072.D (-3150) (-)

Ion 176.00 (175.70 to 176.70): VN055072.D (-3150) (-)

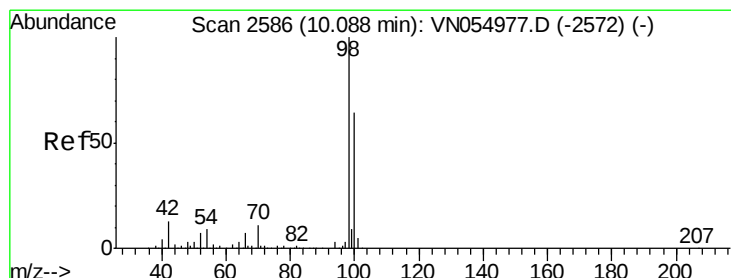
Time--> 12.30 12.40 12.50



Abundance Ion 98.00 (97.70 to 98.70): VN054977.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN054977.D (-2572) (-)

Time--> 10.00 10.10 10.20



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055072.D

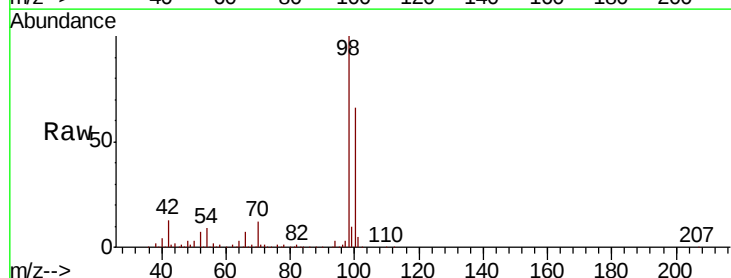
Acq: 16 Apr 2019 12:29

Tgt Ion: 98 Resp: 448079

Ion Ratio Lower Upper

98 100

100 64.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN055072.D (-2431) (-)

Ion 100.00 (99.70 to 100.70): VN055072.D (-2431) (-)

Time--> 10.00 10.10 10.20

