

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\  
 Data File : VN056028.D  
 Acq On : 6 Jun 2019 1:08  
 Operator : JC/SP  
 Sample : K3219-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EFFL-B2-7

Quant Time: Jun 06 04:50:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Jun 06 04:02:53 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.19  | 128  | 52484    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.58  | 114  | 280751   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 215896   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4   | 8.03   | 65    | 99506    | 30.53    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 50 - 169 | Recovery | =    | 101.77% |
| 60) 4-Bromofluorobenzene    | 12.40  | 95    | 74237    | 23.20    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 56 - 143 | Recovery | =    | 77.33%  |
| 63) Toluene-d8              | 10.09  | 98    | 322260   | 32.90    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 66 - 137 | Recovery | =    | 109.67% |

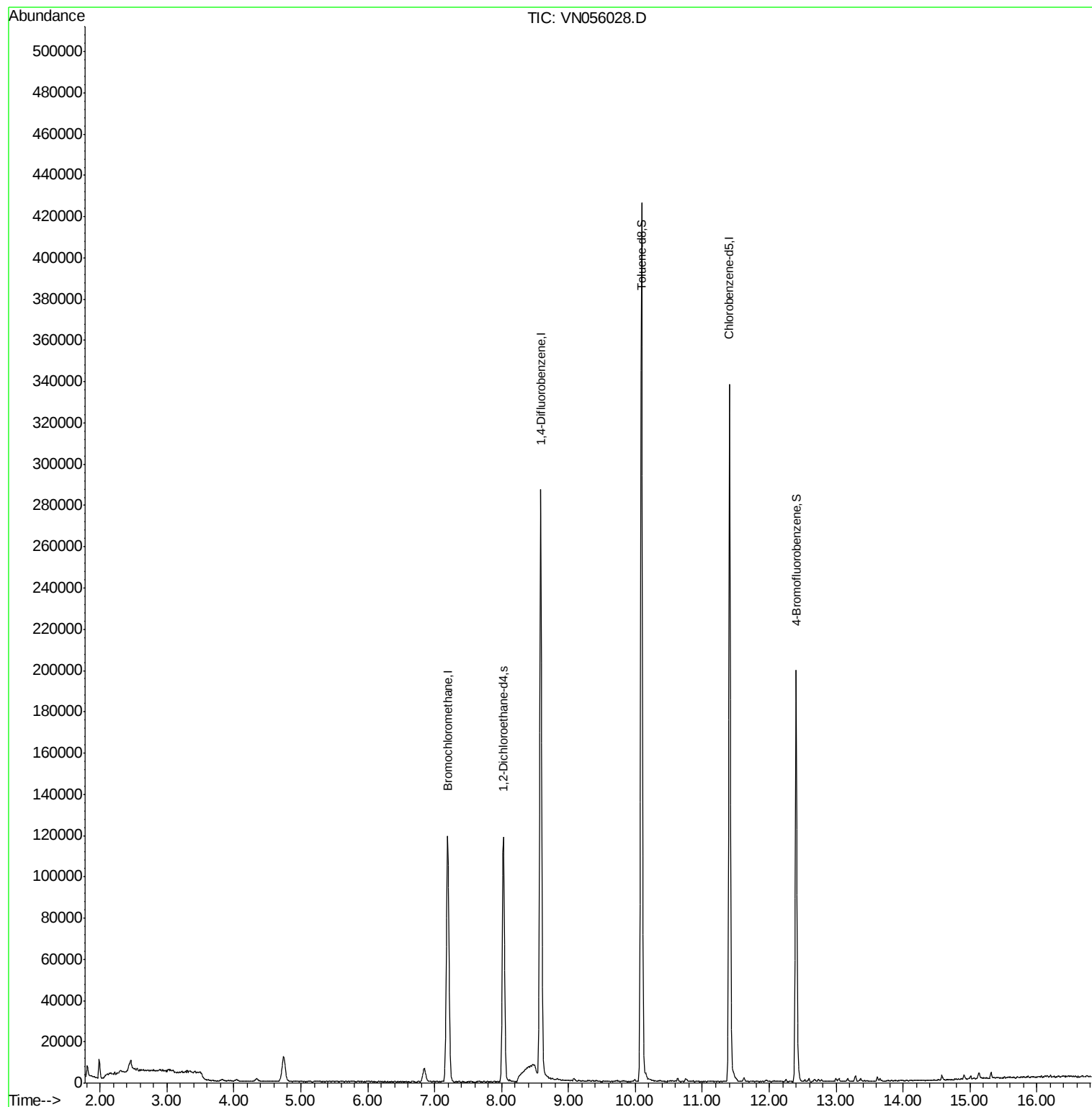
| Target Compounds | Ovalue |
|------------------|--------|
| -----            |        |

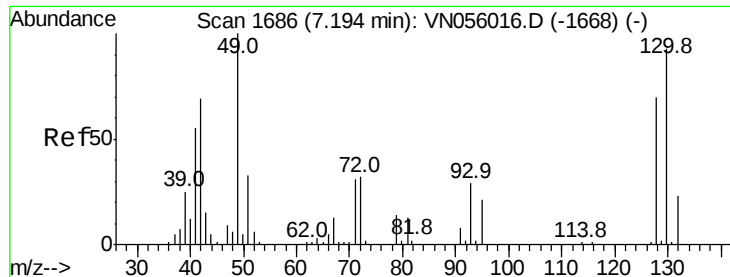
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Jun 06 04:02:53 2019  
Response via : Initial Calibration

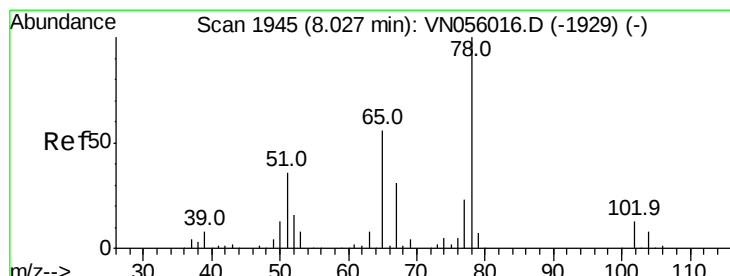
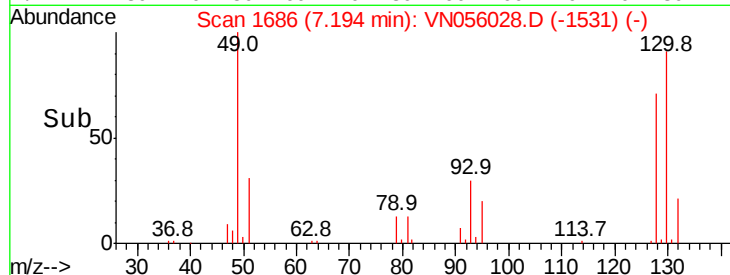
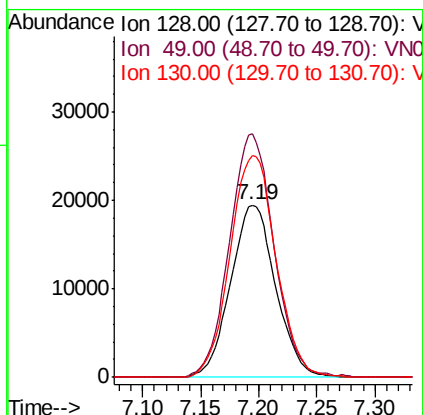
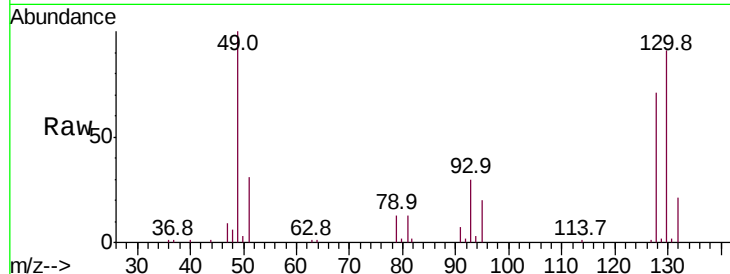




#1  
 Bromochloromethane  
 Concen: 30.000 ug/l  
 RT: 7.19 min Scan# 1686  
 Delta R.T. -0.00 min  
 Lab File: VN056028.D  
 Acq: 6 Jun 2019 1:08

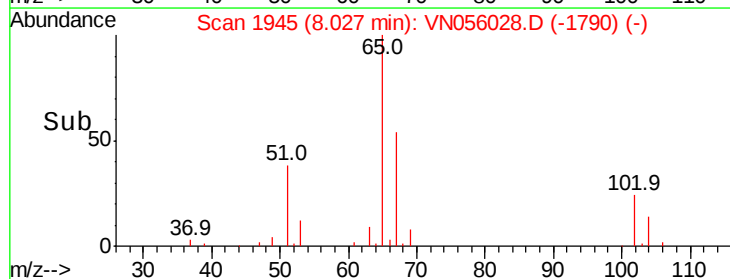
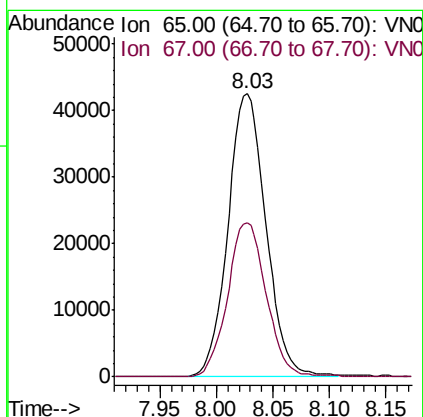
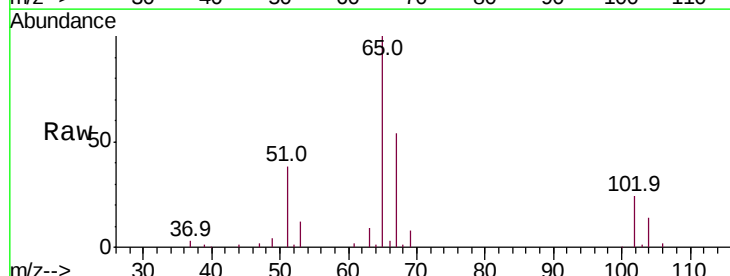
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EFFL-B2-7

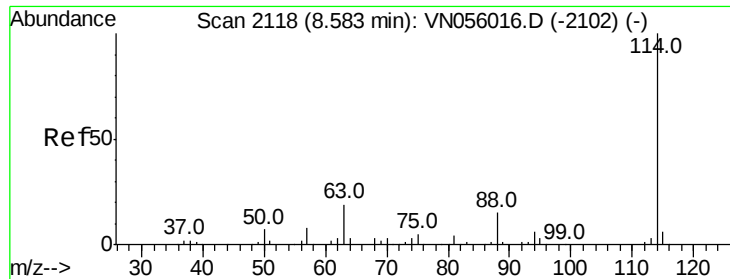
Tot Ion:128 Resp: 52484  
 Ion Ratio Lower Upper  
 128 100  
 49 140.0 0.0 355.8  
 130 131.7 0.0 326.3



#27  
 1,2-Dichloroethane-d4  
 Concen: 30.531 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN056028.D  
 Acq: 6 Jun 2019 1:08

Tgt Ion: 65 Resp: 99506  
 Ion Ratio Lower Upper  
 65 100  
 67 55.3 43.4 65.2

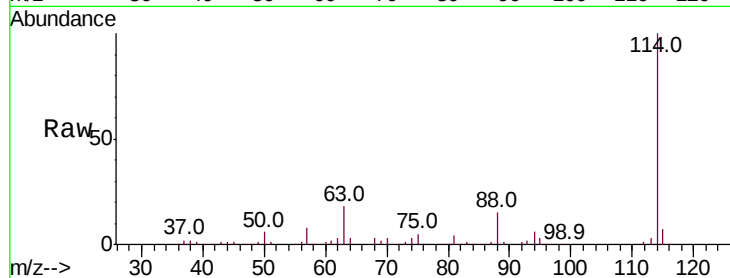




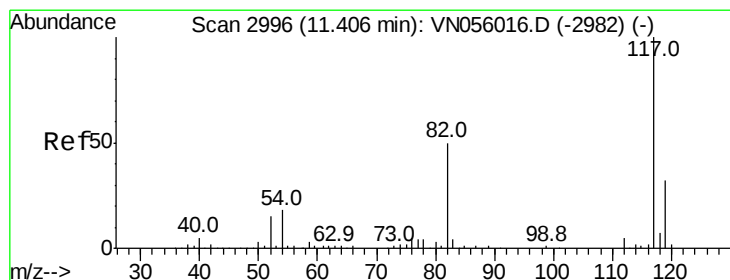
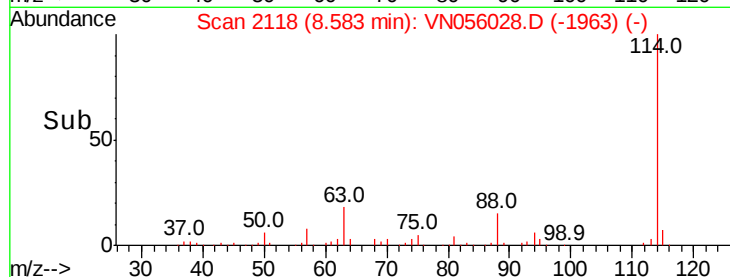
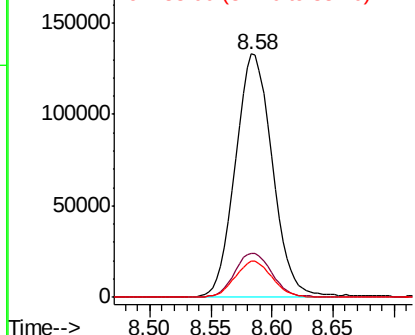
#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.58 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN056028.D  
 Acq: 6 Jun 2019 1:08

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EFL-B2-7

Tot Ion:114 Resp: 280751  
 Ion Ratio Lower Upper  
 114 100  
 63 18.4 14.7 22.1  
 88 15.0 11.9 17.9

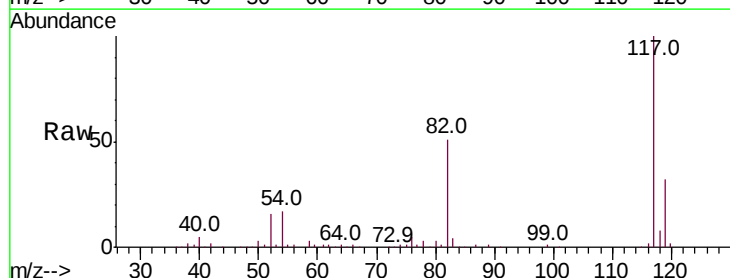


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 88.00 (87.70 to 88.70): VN

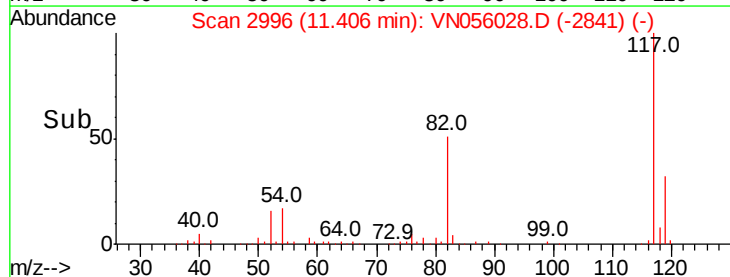
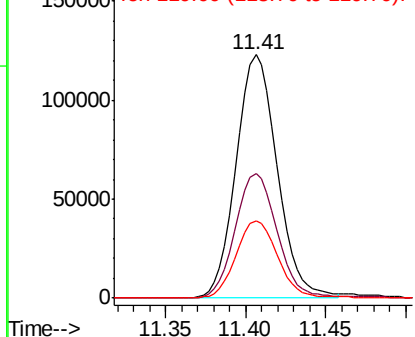


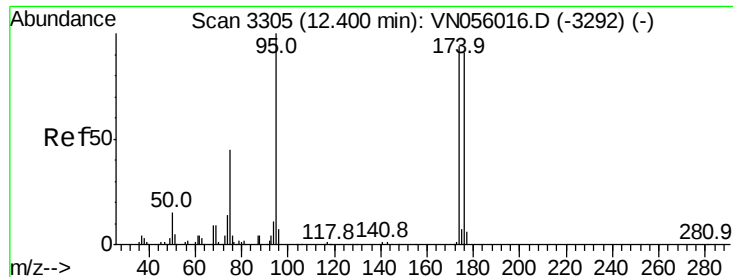
#57  
 Chlorobenzene-d5  
 Concen: 30.000 ug/l  
 RT: 11.41 min Scan# 2996  
 Delta R.T. -0.00 min  
 Lab File: VN056028.D  
 Acq: 6 Jun 2019 1:08

Tgt Ion:117 Resp: 215896  
 Ion Ratio Lower Upper  
 117 100  
 82 52.1 41.2 61.8  
 119 32.3 26.2 39.2



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: 23.199 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056028.D

Acq: 6 Jun 2019 1:08

Instrument :

MSVOA\_N

ClientSampled :

EFFL-B2-7

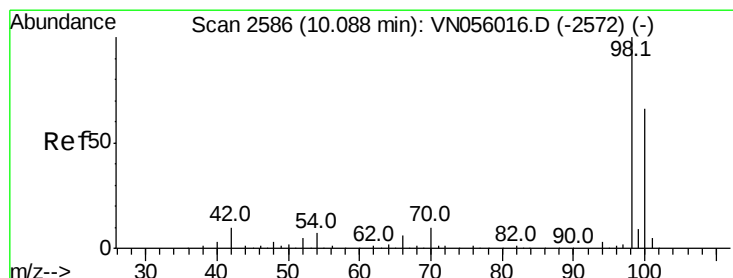
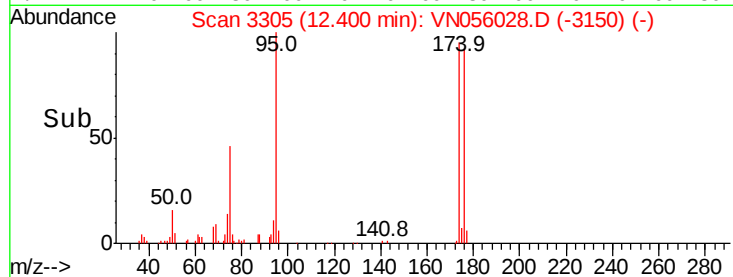
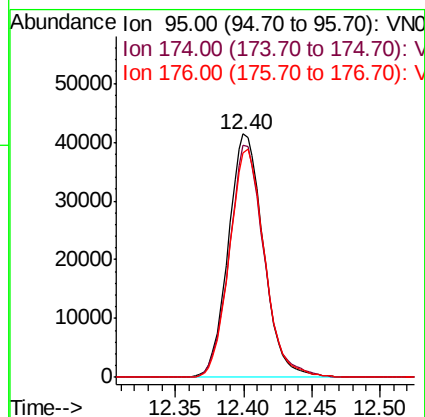
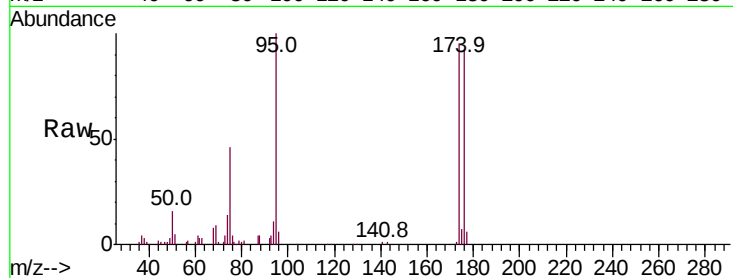
Tot Ion: 95 Resp: 74237

Ion Ratio Lower Upper

95 100

174 94.7 75.4 113.0

176 93.3 73.9 110.9



#63

Toluene-d8

Concen: 32.905 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056028.D

Acq: 6 Jun 2019 1:08

Tgt Ion: 98 Resp: 322260

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.4

