

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\  
 Data File : VX014345.D  
 Acq On : 30 Dec 2019 11:09  
 Operator : JC/SP  
 Sample : VX1230WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1230WBL01

Quant Time: Dec 31 01:32:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Dec 13 01:35:34 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.00  | 128  | 86313    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 474837   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 416212   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4   | 6.05   | 65    | 187877   | 30.39    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 50 - 169 | Recovery | =    | 101.30% |
| 60) 4-Bromofluorobenzene    | 11.13  | 95    | 182187   | 27.11    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 56 - 143 | Recovery | =    | 90.37%  |
| 63) Toluene-d8              | 8.71   | 98    | 569365   | 30.60    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 66 - 137 | Recovery | =    | 102.00% |

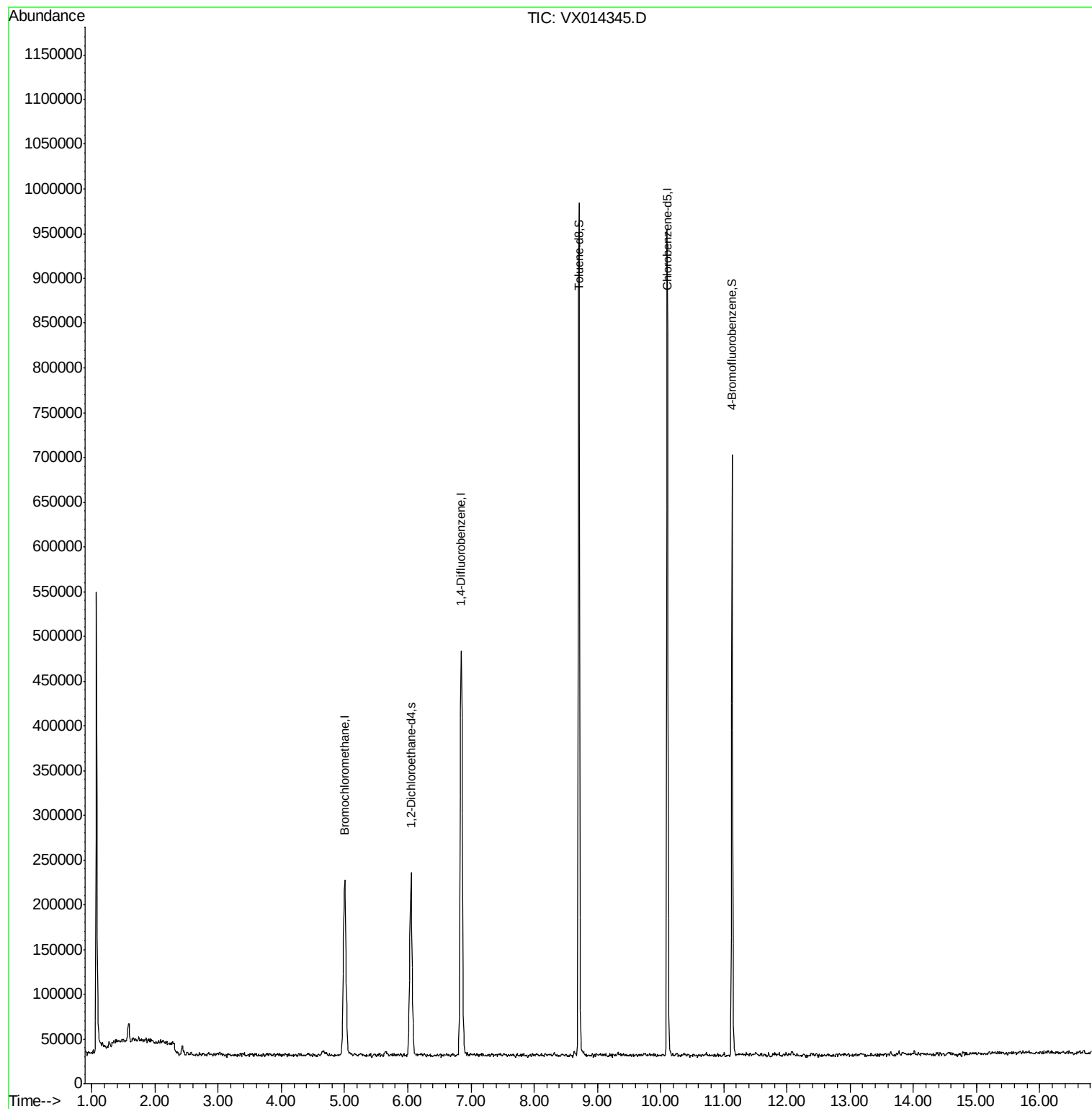
| Target Compounds | Ovalue |
|------------------|--------|
| -----            |        |

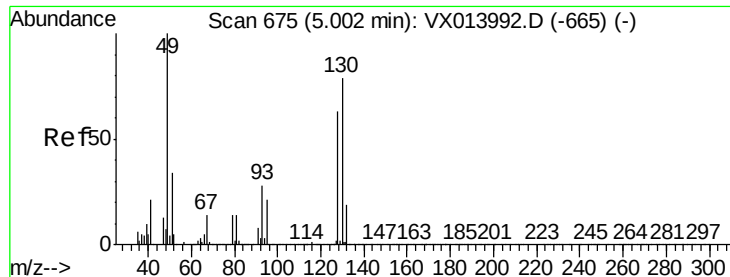
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Dec 13 01:35:34 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014345.D

Acq: 30 Dec 2019 11:09

Instrument :

MSVOA\_X

ClientSampleId :

VX1230WBL01

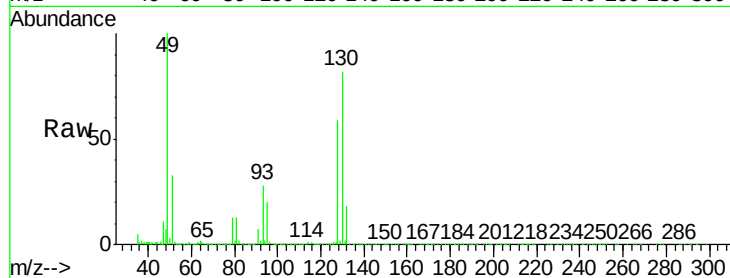
Tot Ion:128 Resp: 86313

Ion Ratio Lower Upper

128 100

49 164.8 0.0 405.0

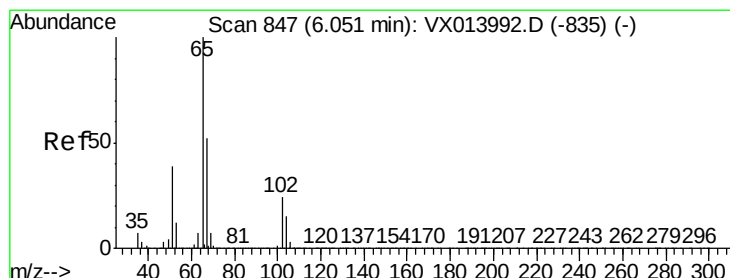
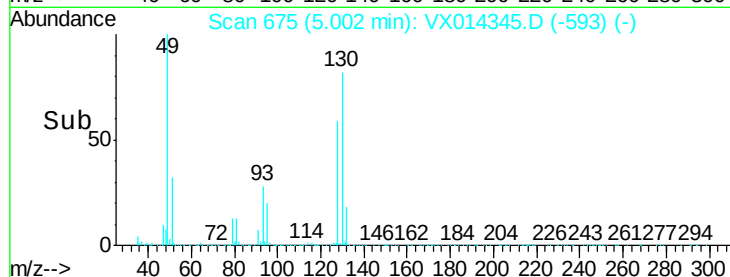
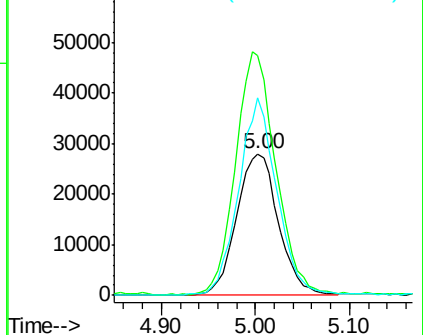
130 128.9 0.0 321.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#27

1,2-Dichloroethane-d4

Concen: 30.393 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014345.D

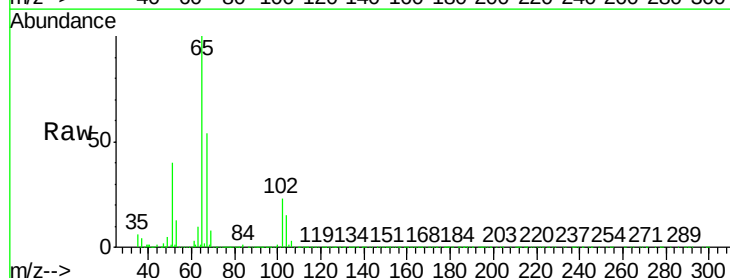
Acq: 30 Dec 2019 11:09

Tgt Ion: 65 Resp: 187877

Ion Ratio Lower Upper

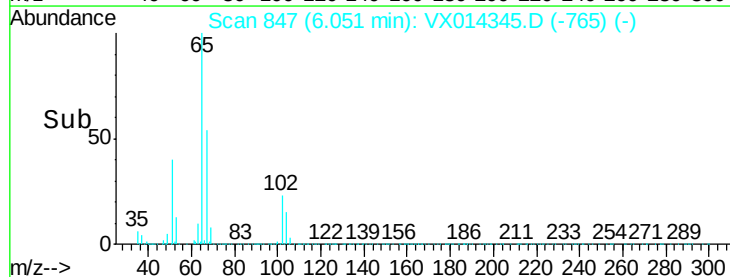
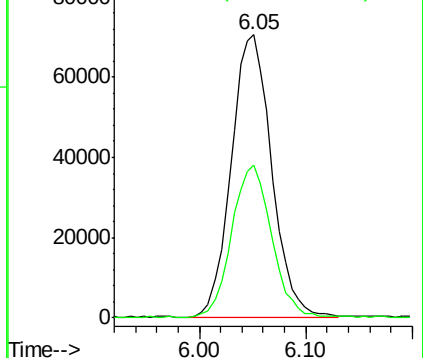
65 100

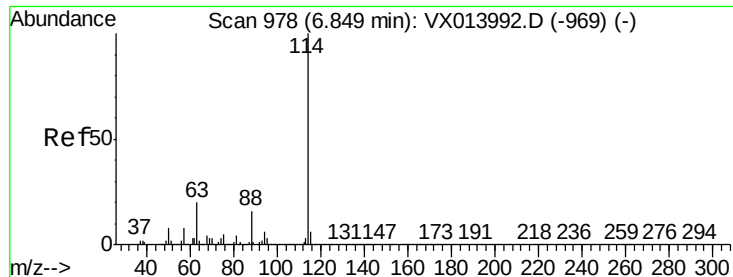
67 52.6 43.1 64.7



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

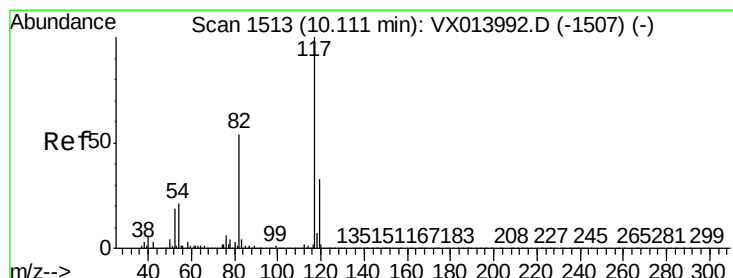
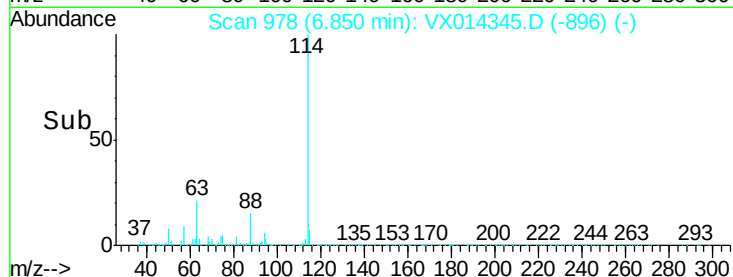
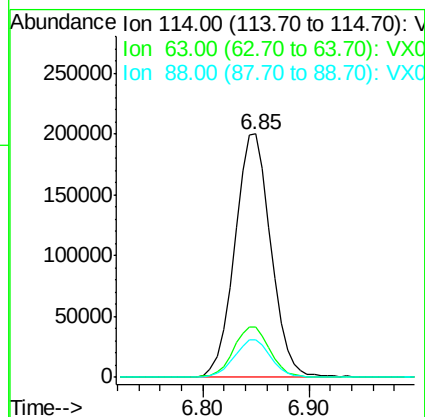
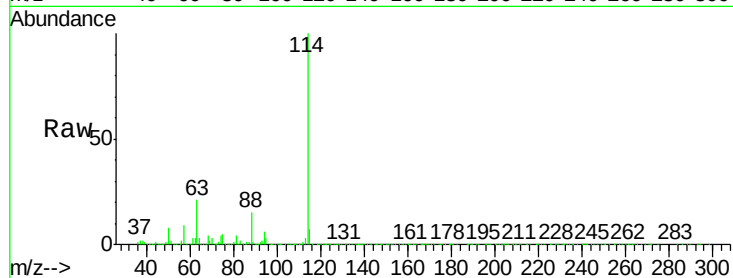




#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 6.85 min Scan# 978  
Delta R.T. 0.00 min  
Lab File: VX014345.D  
Acq: 30 Dec 2019 11:09

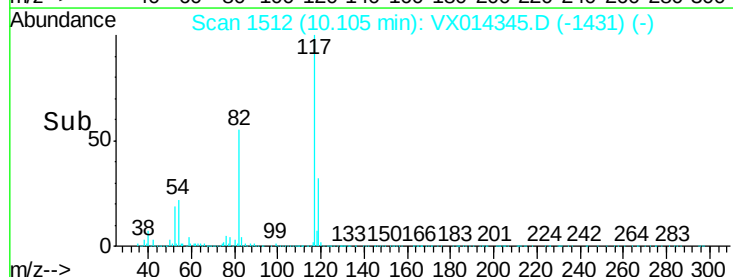
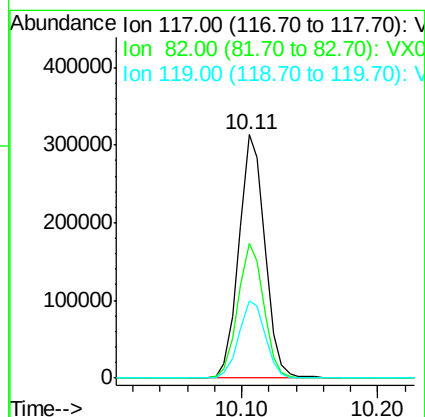
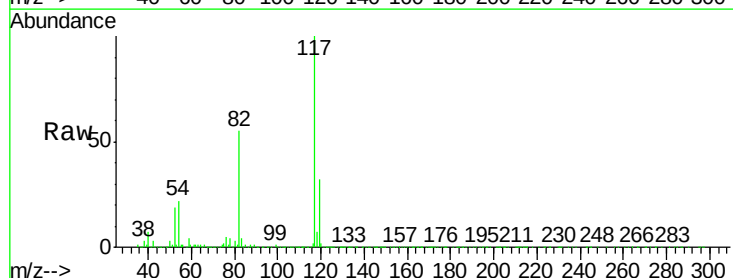
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1230WBL01

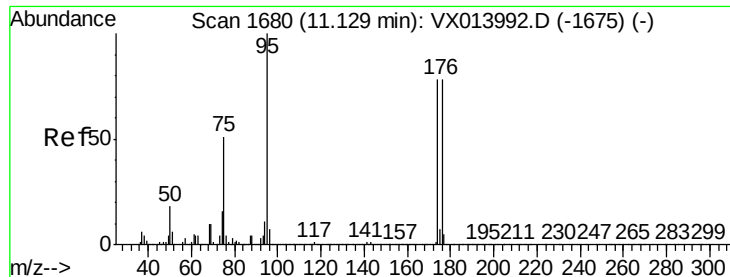
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 114   | Resp: | 474837 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 21.2  | 16.1  | 24.1   |
| 88       | 15.5  | 12.5  | 18.7   |



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1512  
Delta R.T. -0.01 min  
Lab File: VX014345.D  
Acq: 30 Dec 2019 11:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 416212 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 54.8  | 43.8  | 65.6   |
| 119      | 32.2  | 25.8  | 38.6   |

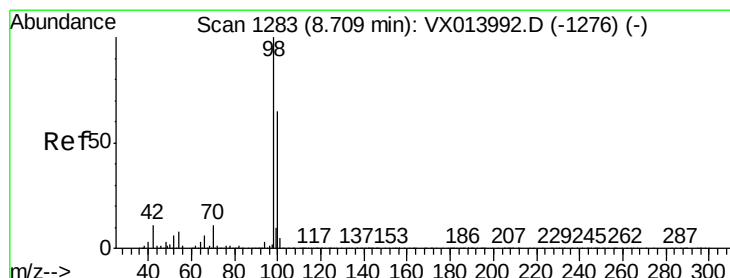
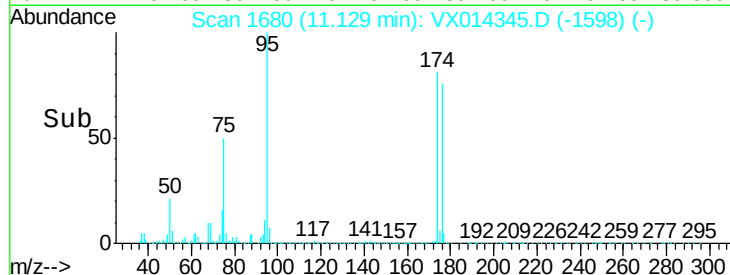
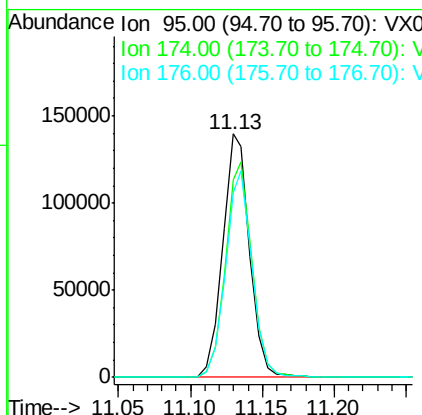
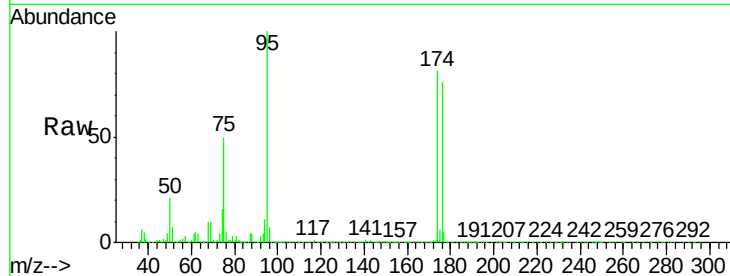




#60  
4-Bromofluorobenzene  
Concen: 27.107 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. 0.00 min  
Lab File: VX014345.D  
Acq: 30 Dec 2019 11:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1230WBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 87.4  | 70.2  | 105.2 |
| 176     | 83.8  | 68.3  | 102.5 |



#63  
Toluene-d8  
Concen: 30.604 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX014345.D  
Acq: 30 Dec 2019 11:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 66.1  | 52.2  | 78.2  |

