

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111419\  
 Data File : VX013414.D  
 Acq On : 14 Nov 2019 12:06  
 Operator : JC/SP  
 Sample : K5834-01 10X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Nov 15 00:54:06 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Nov 12 01:16:13 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.00  | 128  | 128402   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 679999   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 598499   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 27) 1,2-Dichloroethane-d4 | 6.05   | 65    | 273959   | 28.89    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 96.30% |
| 60) 4-Bromofluorobenzene  | 11.14  | 95    | 260851   | 27.12    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 90.40% |
| 63) Toluene-d8            | 8.71   | 98    | 809218   | 29.90    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 99.67% |

## Target Compounds

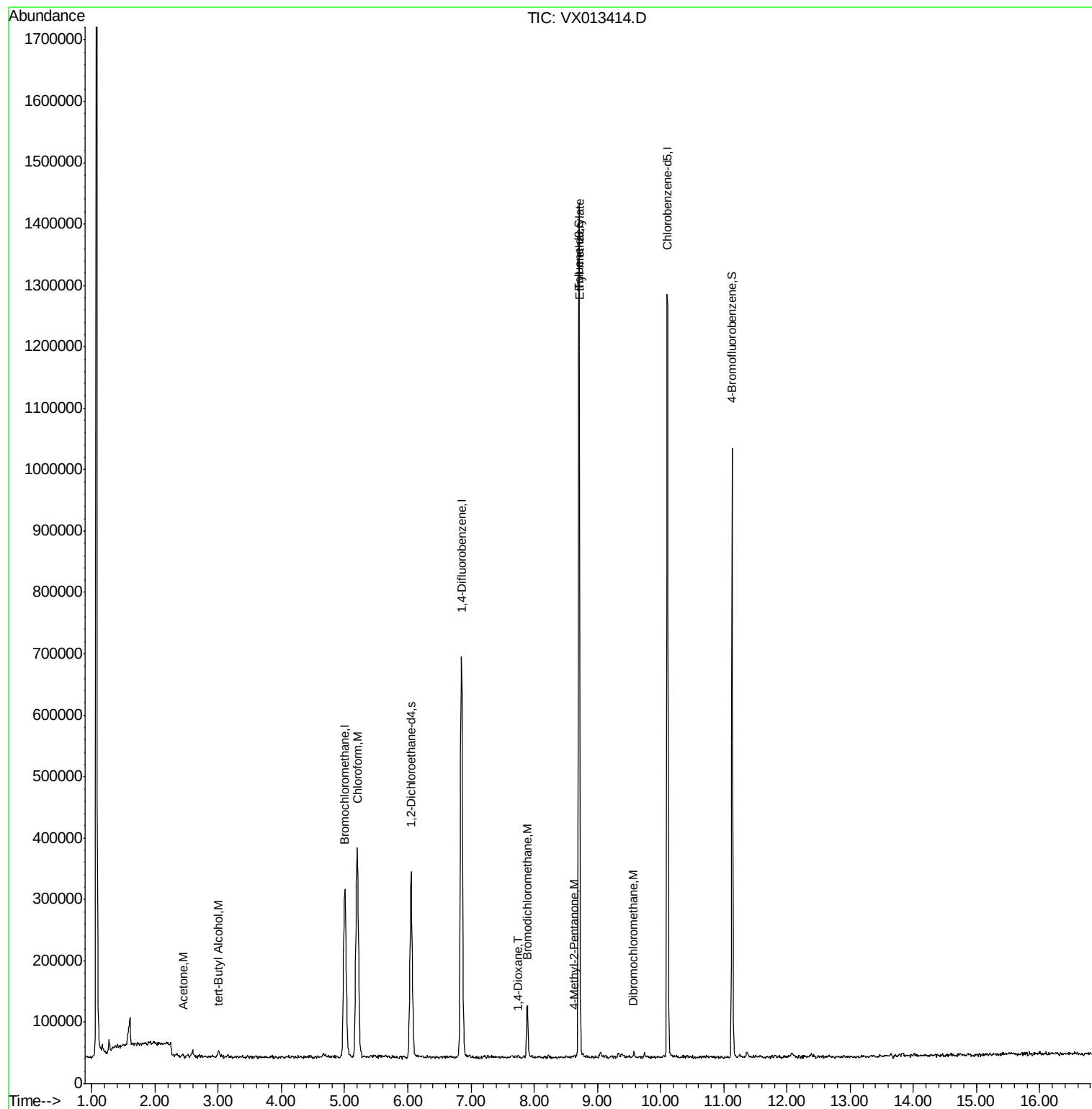
|                          |      |     |        |        | Ovalue |    |
|--------------------------|------|-----|--------|--------|--------|----|
| 15) Acetone              | 2.44 | 58  | 1431   | 0.925  | ug/l   | 75 |
| 23) tert-Butyl Alcohol   | 3.00 | 59  | 7243   | 2.945  | ug/l # | 98 |
| 25) Chloroform           | 5.20 | 83  | 414407 | 27.666 | ug/l   | 97 |
| 41) Bromodichloromethane | 7.89 | 83  | 55788  | 5.272  | ug/l   | 92 |
| 45) 1,4-Dioxane          | 7.75 | 88  | 113    | 0.509  | ug/l # | 1  |
| 51) Ethyl methacrylate   | 8.72 | 69  | 3269   | 0.248  | ug/l   | 73 |
| 53) Dibromochloromethane | 9.58 | 129 | 4439   | 0.522  | ug/l   | 95 |
| 58) 4-Methyl-2-Pentanone | 8.63 | 43  | 3632   | 0.290  | ug/l # | 51 |

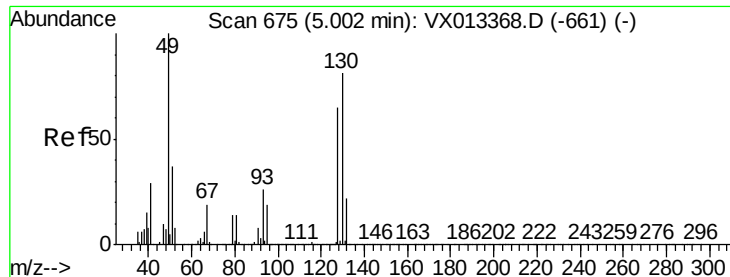
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX111419\  
Data File : VX013414.D  
Acq On : 14 Nov 2019 12:06  
Operator : JC/SP  
Sample : K5834-01 10X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Nov 15 00:54:06 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Tue Nov 12 01:16:13 2019  
Response via : Initial Calibration

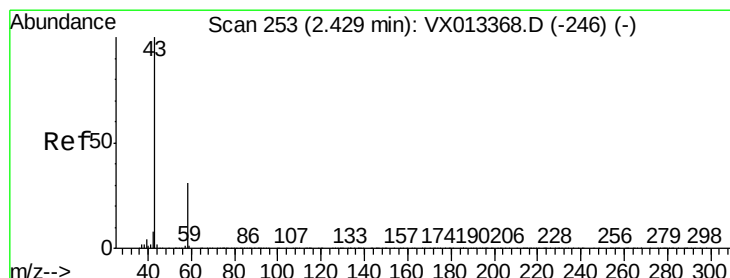
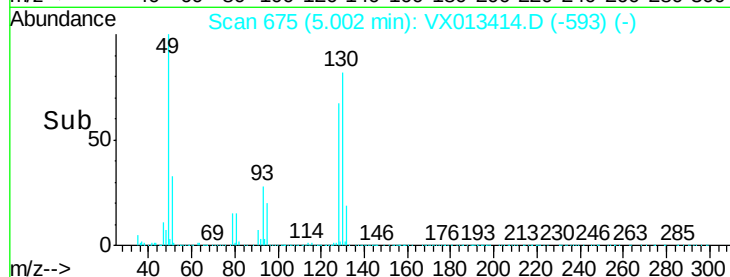
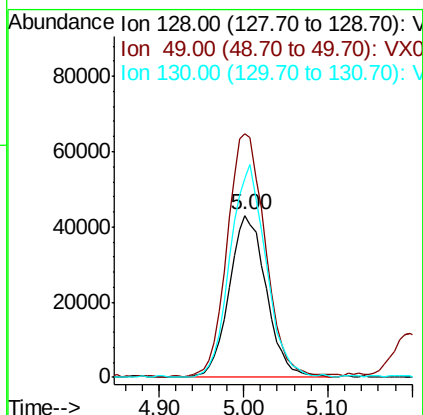
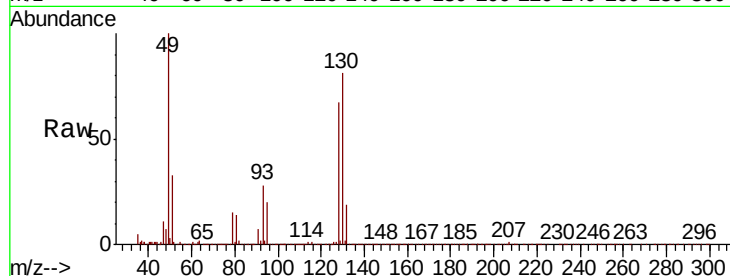




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 5.00 min Scan# 675  
Delta R.T. 0.00 min  
Lab File: VX013414.D  
Acq: 14 Nov 2019 12:06

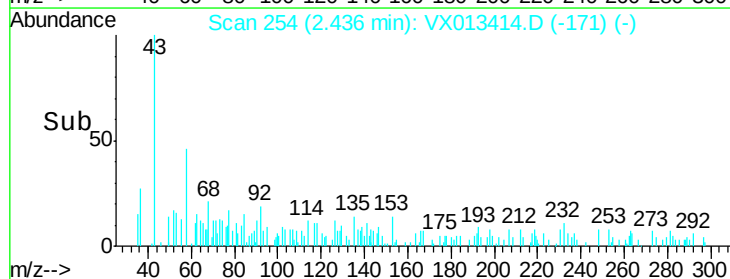
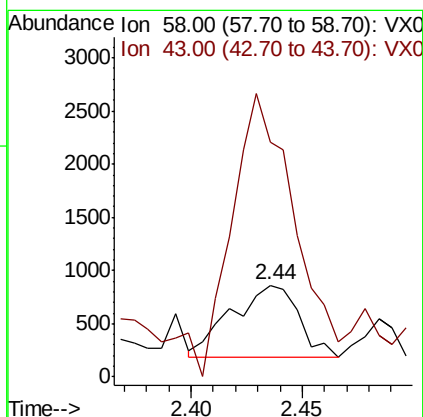
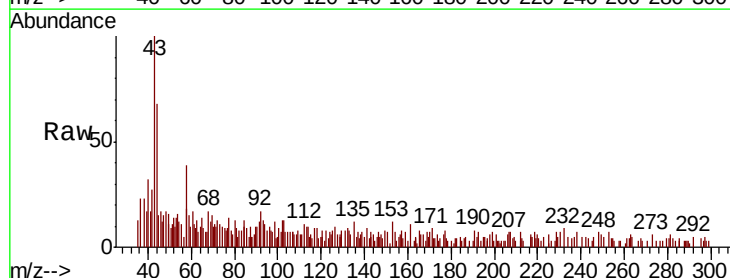
Instrument :  
MSVOA\_X  
ClientSampleId :

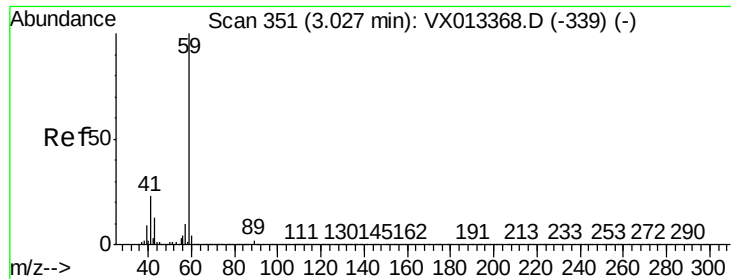
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 152.9 | 0.0   | 388.3 |
| 130     | 126.5 | 0.0   | 318.5 |



#15  
Acetone  
Concen: 0.925 ug/l  
RT: 2.44 min Scan# 254  
Delta R.T. 0.01 min  
Lab File: VX013414.D  
Acq: 14 Nov 2019 12:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 58      | 100   |       |       |
| 43      | 274.5 | 261.4 | 392.2 |



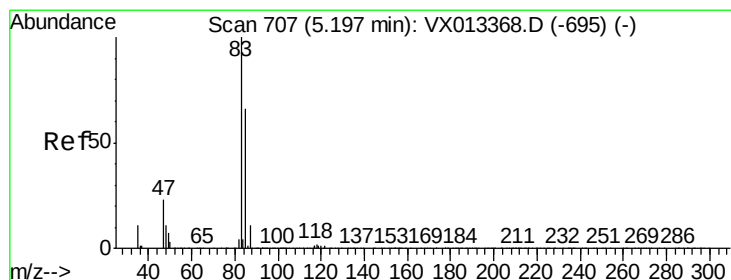
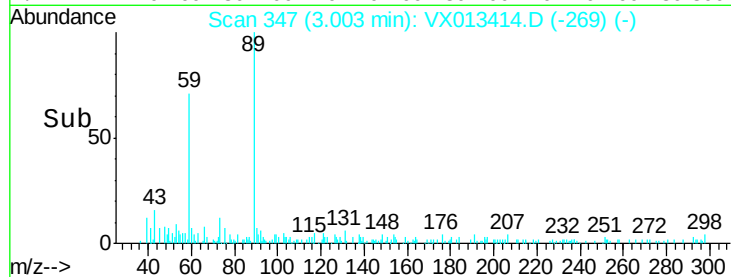
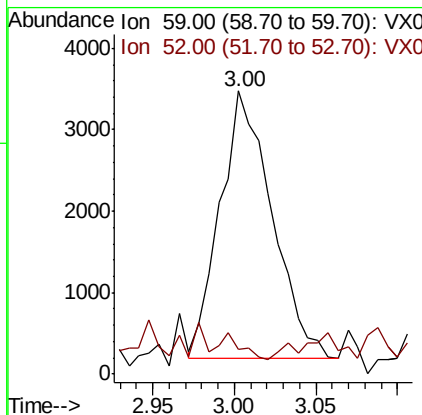
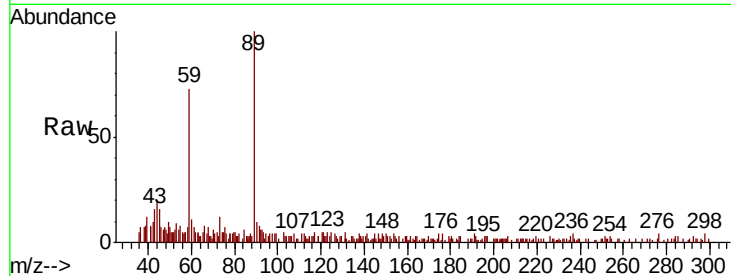


#23

tert-Butyl Alcohol  
 Concen: 2.945 ug/l  
 RT: 3.00 min Scan# 347  
 Delta R.T. -0.02 min  
 Lab File: VX013414.D  
 Acq: 14 Nov 2019 12:06

Instrument :  
 MSVOA\_X  
 ClientSampleId :

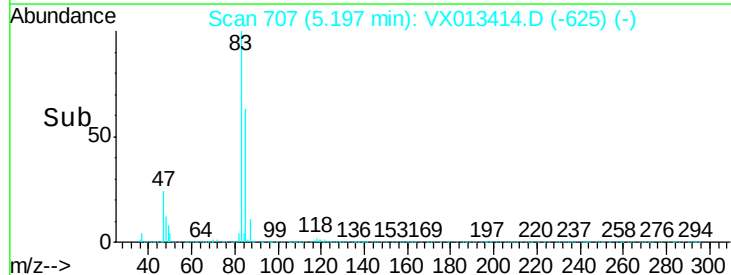
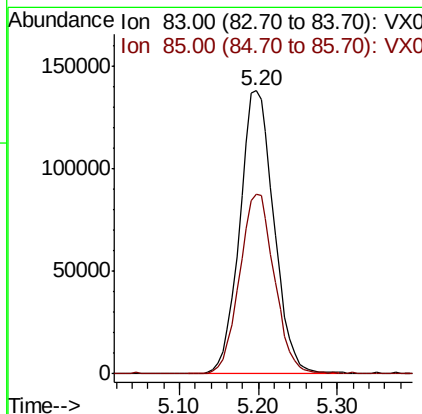
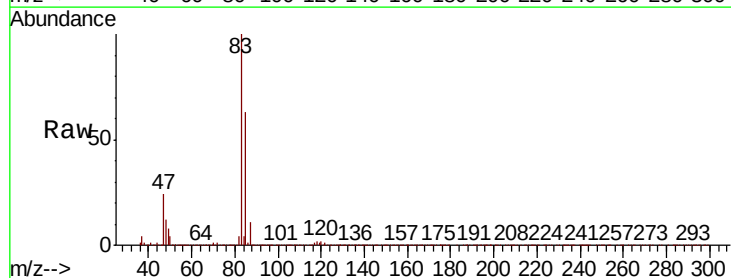
Tot Ion: 59 Resp: 7243  
 Ion Ratio Lower Upper  
 59 100  
 52 4.2 0.1 0.1#

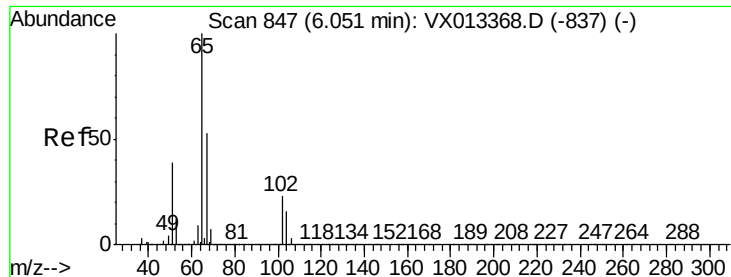


#25

Chloroform  
 Concen: 27.666 ug/l  
 RT: 5.20 min Scan# 707  
 Delta R.T. 0.00 min  
 Lab File: VX013414.D  
 Acq: 14 Nov 2019 12:06

Tgt Ion: 83 Resp: 414407  
 Ion Ratio Lower Upper  
 83 100  
 85 63.4 52.4 78.6

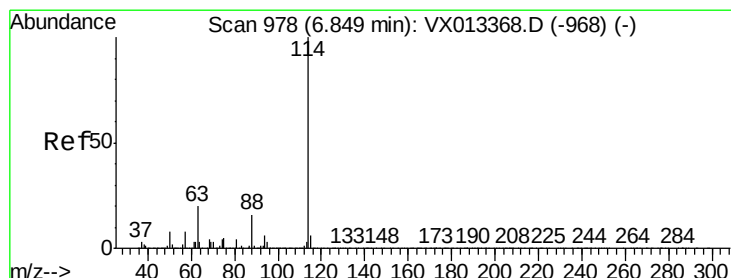
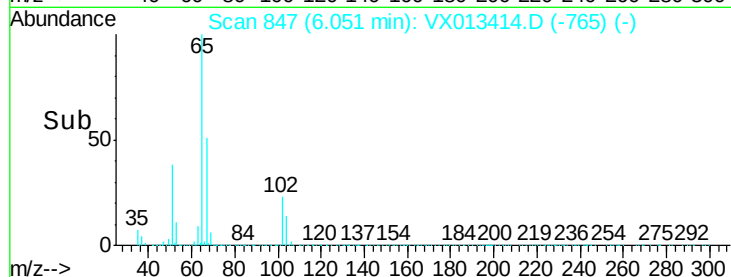
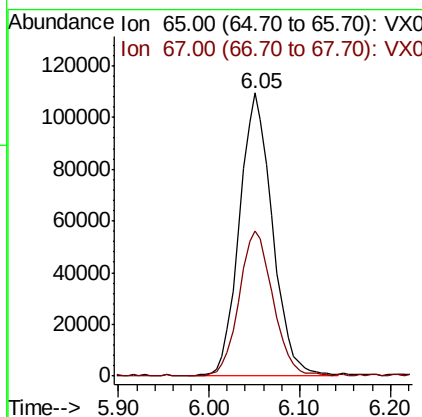
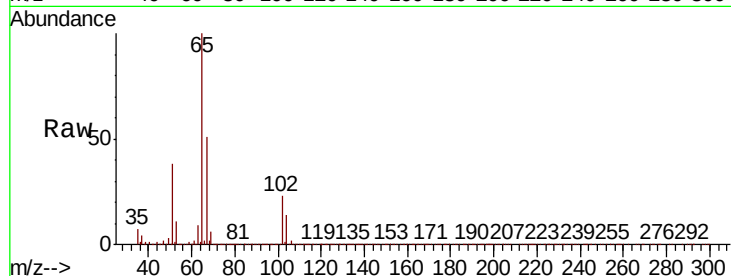




#27  
 1,2-Dichloroethane-d4  
 Concen: 28.894 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. 0.00 min  
 Lab File: VX013414.D  
 Acq: 14 Nov 2019 12:06

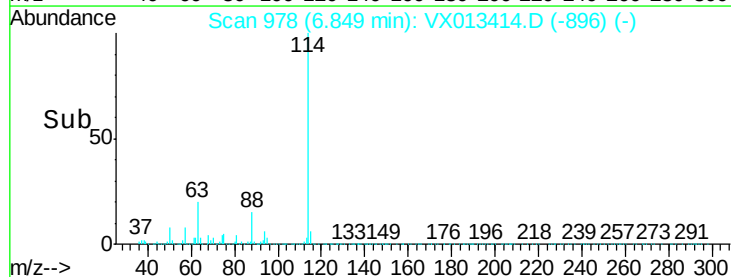
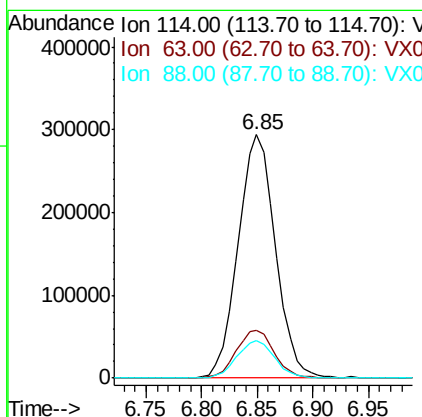
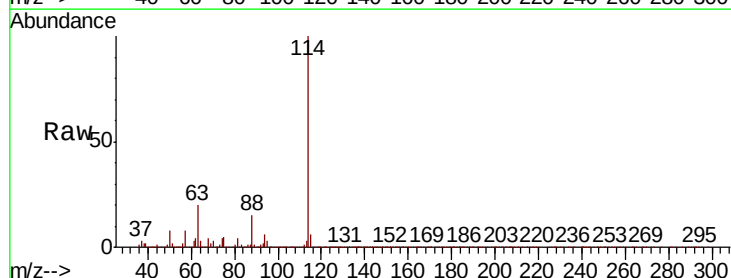
Instrument :  
 MSVOA\_X  
 ClientSampled :

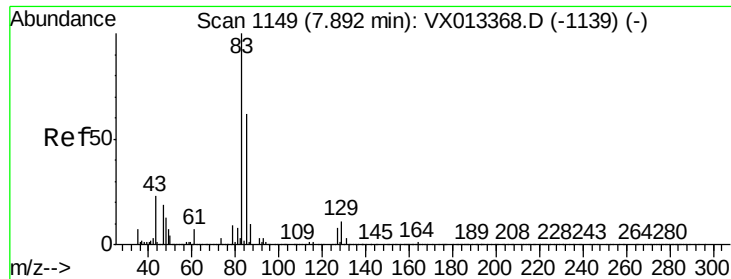
Tot Ion: 65 Resp: 273959  
 Ion Ratio Lower Upper  
 65 100  
 67 52.4 41.0 61.6



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX013414.D  
 Acq: 14 Nov 2019 12:06

Tgt Ion: 114 Resp: 679999  
 Ion Ratio Lower Upper  
 114 100  
 63 20.1 16.1 24.1  
 88 15.5 12.3 18.5





#41

Bromodichloromethane

Concen: 5.272 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VX013414.D

Acq: 14 Nov 2019 12:06

Instrument :  
MSVOA\_X  
ClientSampleId :

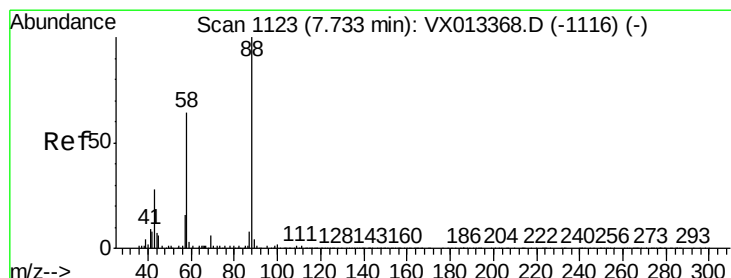
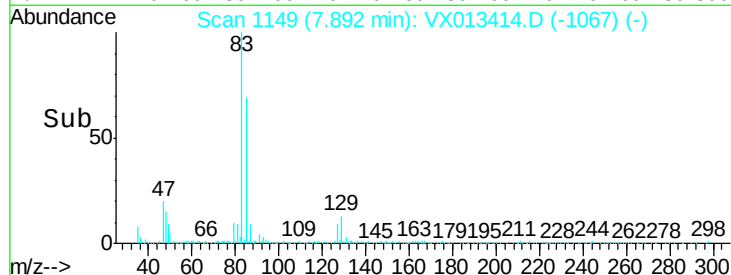
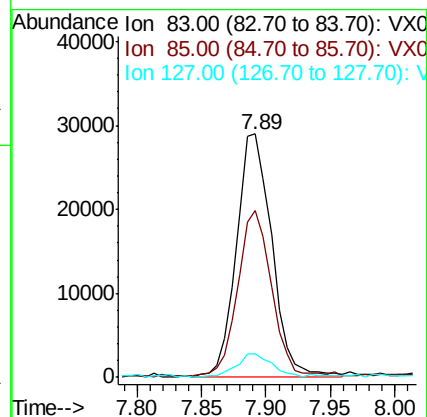
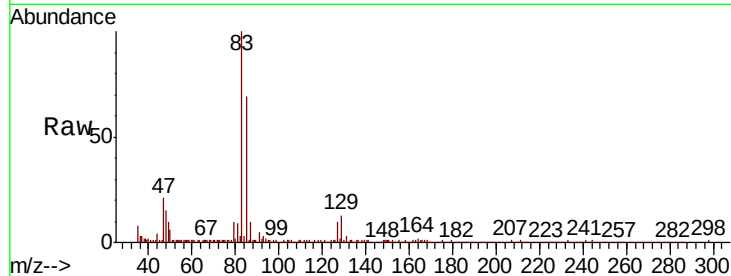
Tot Ion: 83 Resp: 55788

Ion Ratio Lower Upper

83 100

85 68.2 49.3 73.9

127 9.4 6.6 10.0



#45

1,4-Dioxane

Concen: 0.509 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013414.D

Acq: 14 Nov 2019 12:06

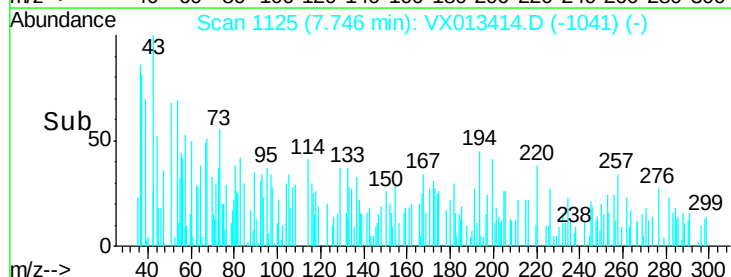
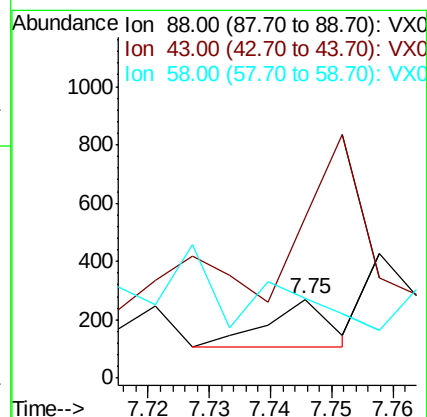
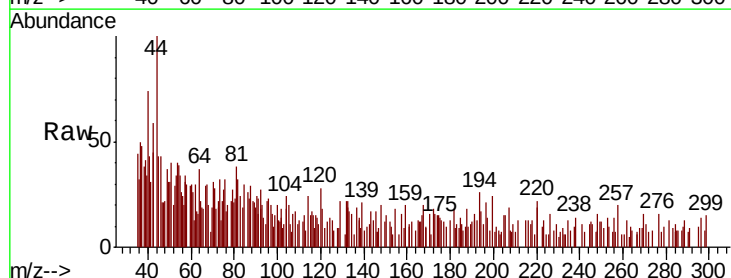
Tgt Ion: 88 Resp: 113

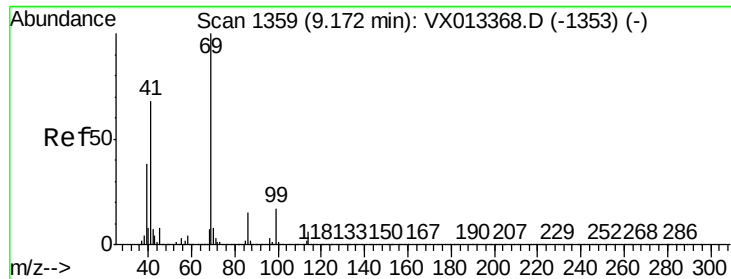
Ion Ratio Lower Upper

88 100

43 476.1 26.1 39.1#

58 106.2 55.8 83.8#





#51

Ethyl methacrylate

Concen: 0.248 ug/l

RT: 8.72 min Scan# 1285

Delta R.T. -0.45 min

Lab File: VX013414.D

Acq: 14 Nov 2019 12:06

Instrument :

MSVOA\_X

ClientSampled :

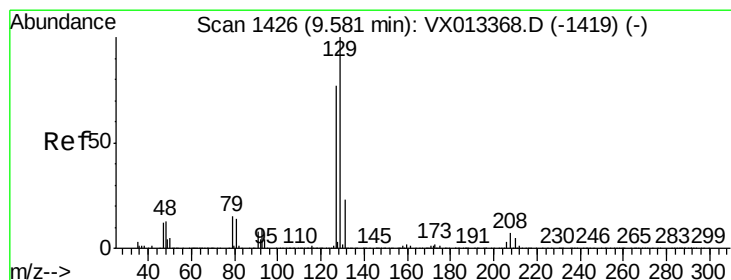
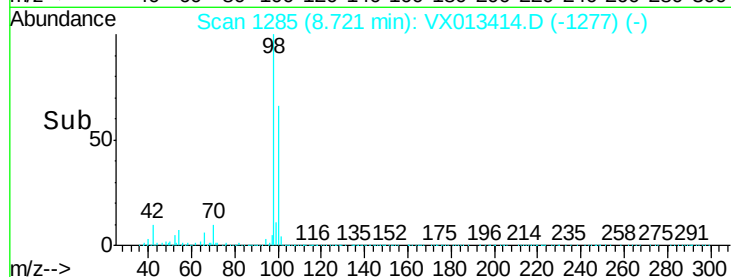
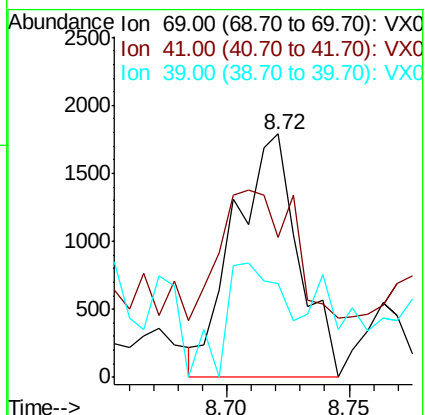
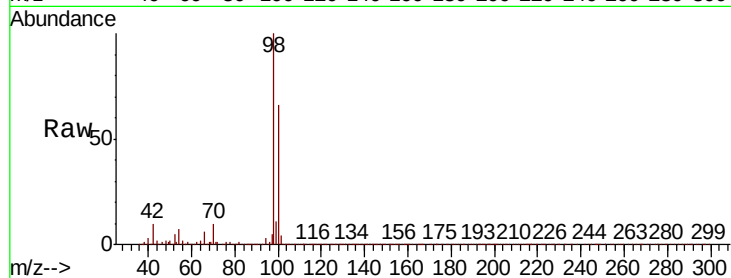
Tot Ion: 69 Resp: 3269

Ion Ratio Lower Upper

69 100

41 34.4 33.9 101.6

39 38.4 18.8 56.4



#53

Dibromochloromethane

Concen: 0.522 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.00 min

Lab File: VX013414.D

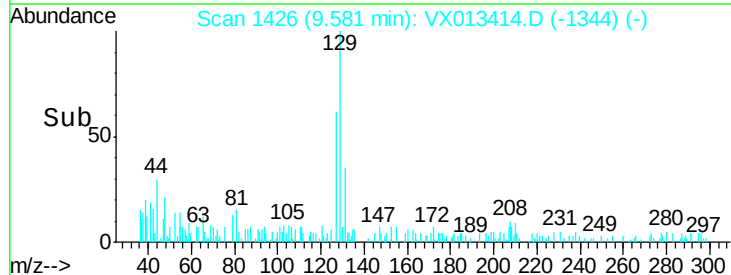
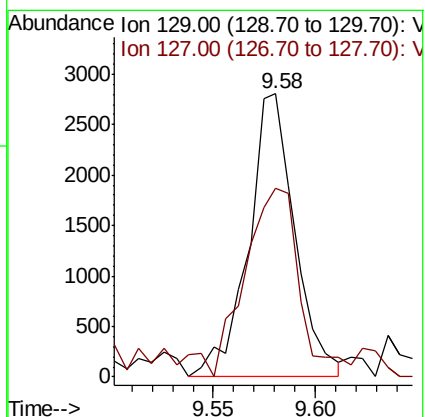
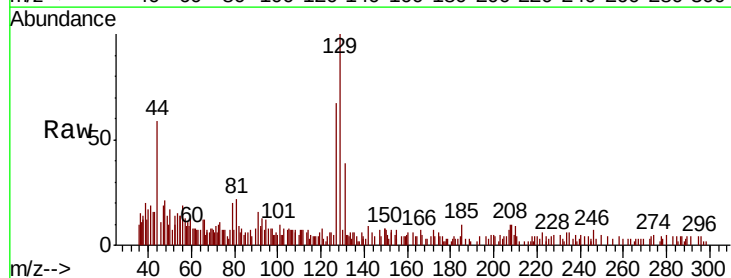
Acq: 14 Nov 2019 12:06

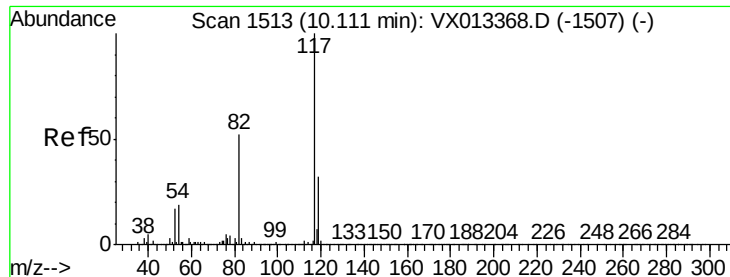
Tgt Ion: 129 Resp: 4439

Ion Ratio Lower Upper

129 100

127 75.1 39.6 119.0

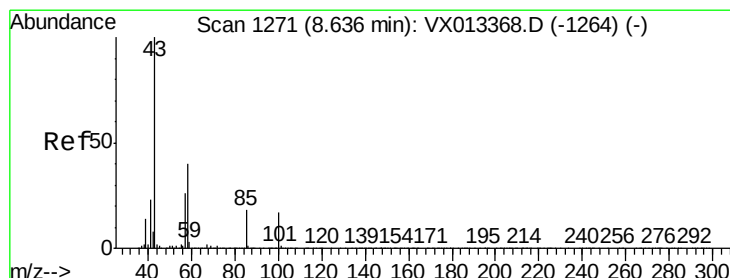
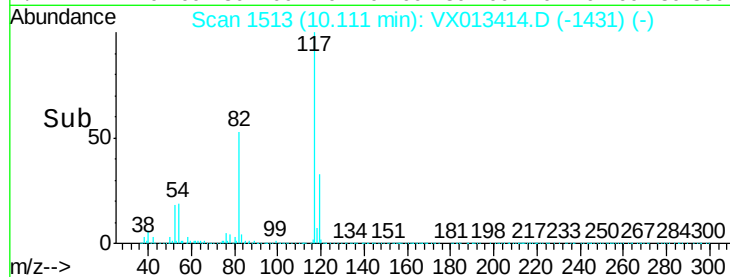
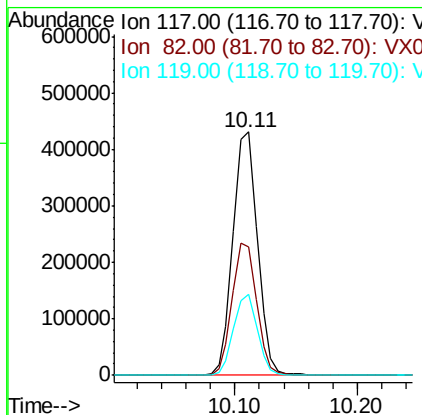
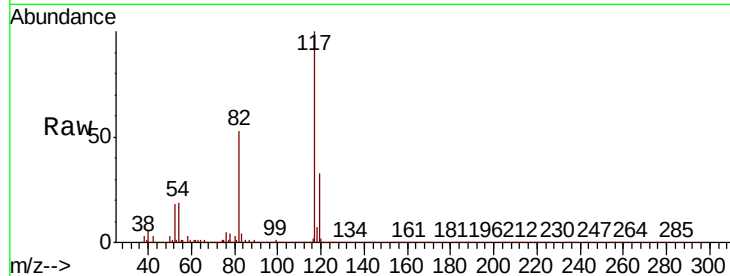




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX013414.D  
Acq: 14 Nov 2019 12:06

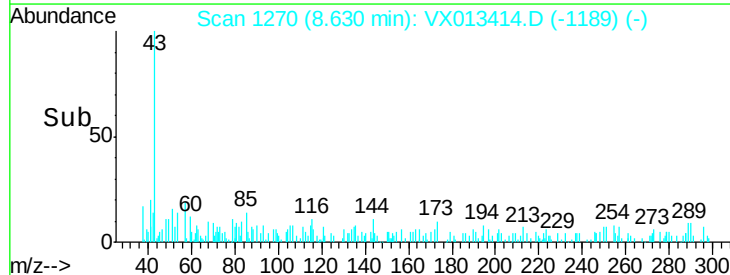
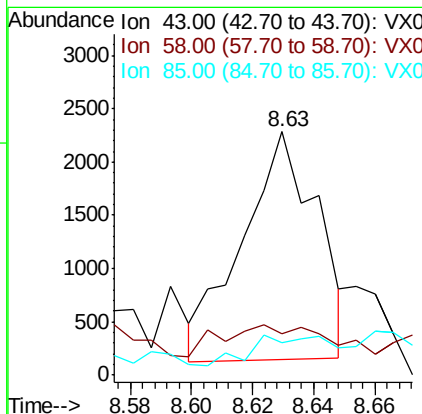
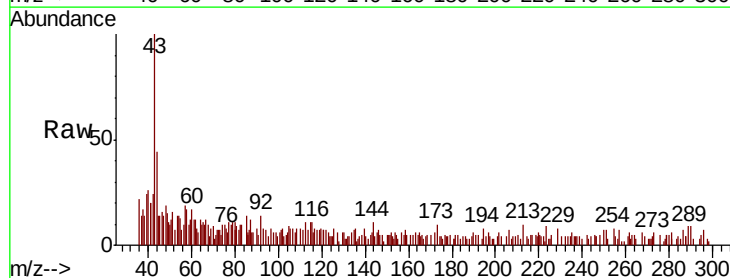
Instrument :  
MSVOA\_X  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.0  | 43.7  | 65.5  |
| 119     | 32.1  | 25.5  | 38.3  |

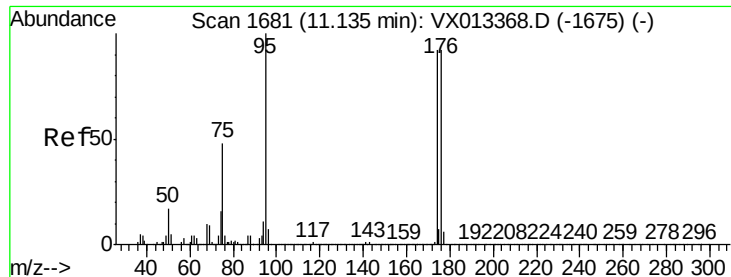


#58  
4-Methyl-2-Pentanone  
Concen: 0.290 ug/l  
RT: 8.63 min Scan# 1270  
Delta R.T. -0.01 min  
Lab File: VX013414.D  
Acq: 14 Nov 2019 12:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 3.1   | 31.6  | 47.4# |
| 85      | 6.7   | 14.2  | 21.2# |



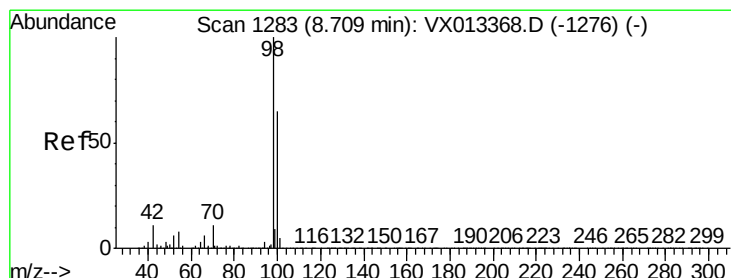
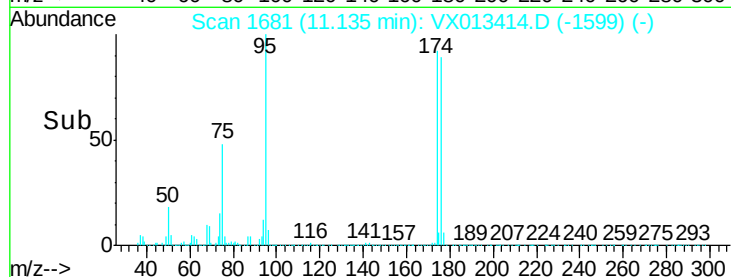
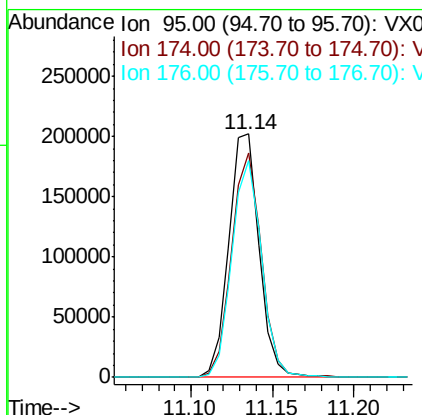
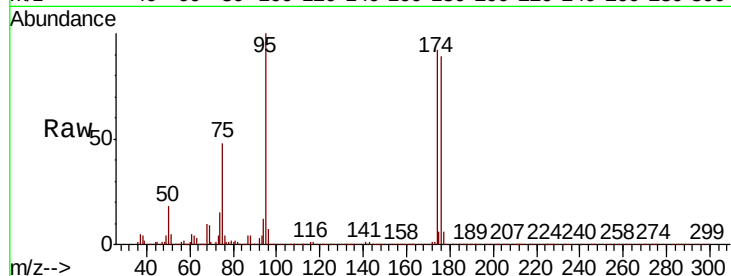




#60  
4-Bromofluorobenzene  
Concen: 27.117 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.00 min  
Lab File: VX013414.D  
Acq: 14 Nov 2019 12:06

Instrument :  
MSVOA\_X  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 91.1  | 70.2  | 105.2 |
| 176     | 87.6  | 68.3  | 102.5 |



#63  
Toluene-d8  
Concen: 29.900 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX013414.D  
Acq: 14 Nov 2019 12:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 65.8  | 52.5  | 78.7  |

