

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX111219\  
 Data File : VX013377.D  
 Acq On : 12 Nov 2019 11:36  
 Operator : JC/SP  
 Sample : K5765-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TT-011-IDWGW-20191107

Quant Time: Nov 21 18:35:58 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  | 142019   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 786856   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 679501   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.05   | 65    | 307173   | 29.29    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 97.63%  |
| 60) 4-Bromofluorobenzene  | 11.13  | 95    | 300350   | 27.50    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 91.67%  |
| 63) Toluene-d8            | 8.71   | 98    | 935927   | 30.46    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.53% |

## Target Compounds

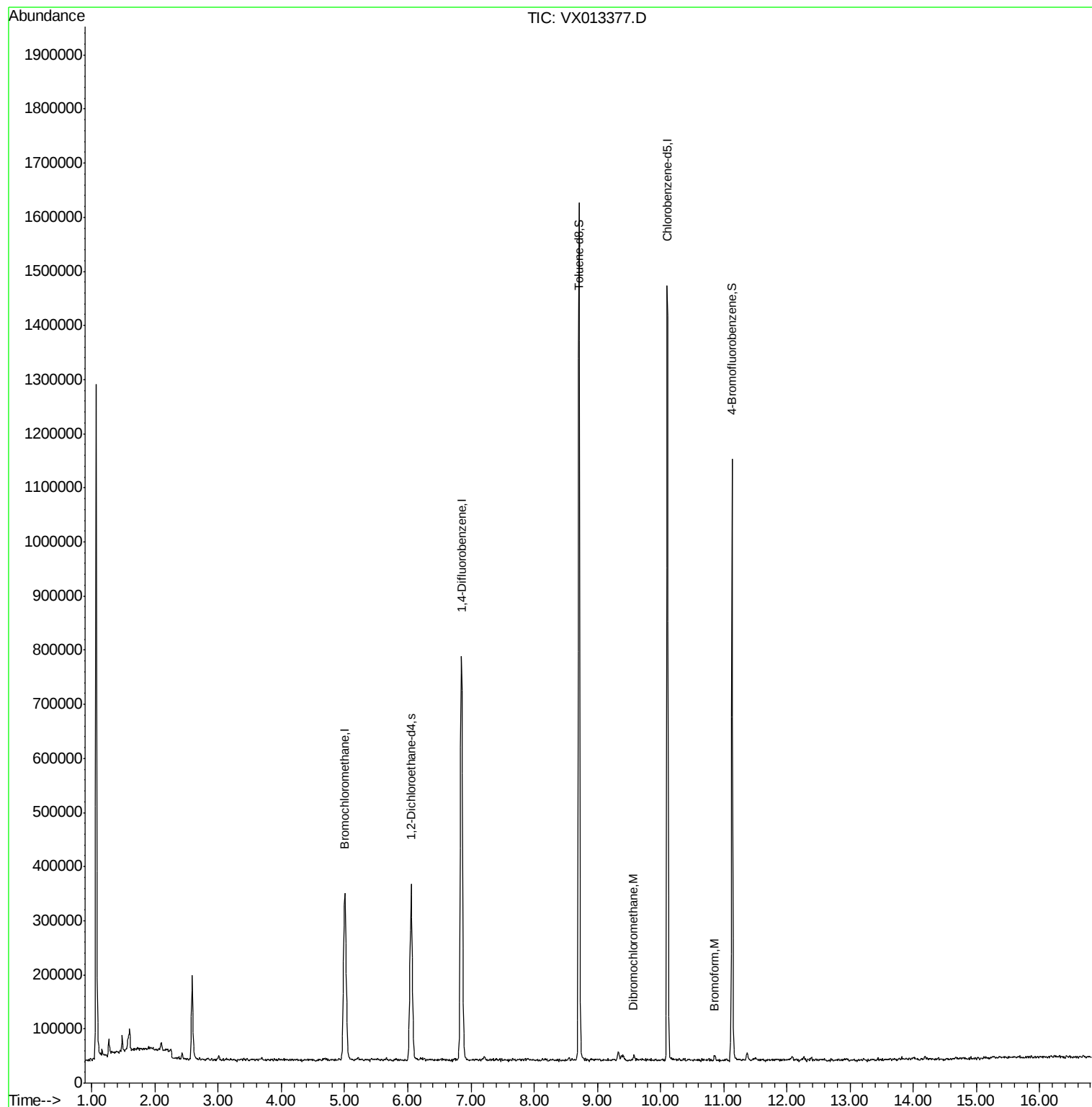
|                          |       |     |      |       | Ovalue |    |
|--------------------------|-------|-----|------|-------|--------|----|
| 53) Dibromochloromethane | 9.58  | 129 | 5279 | 0.537 | ug/l   | 95 |
| 56) Bromoform            | 10.85 | 173 | 4255 | 0.543 | ug/l # | 87 |

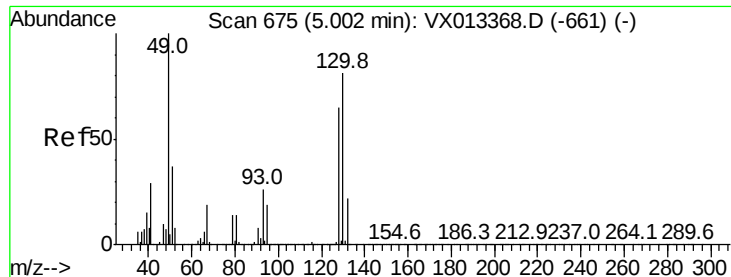
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Tue Nov 12 01:16:13 2019  
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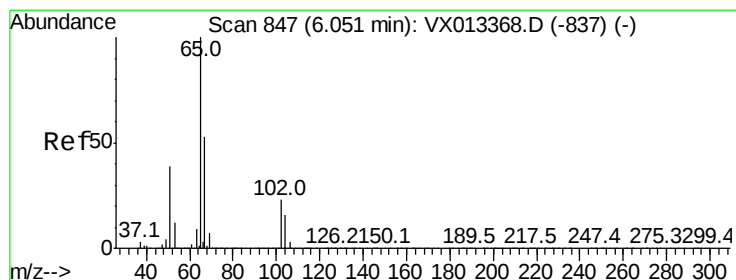
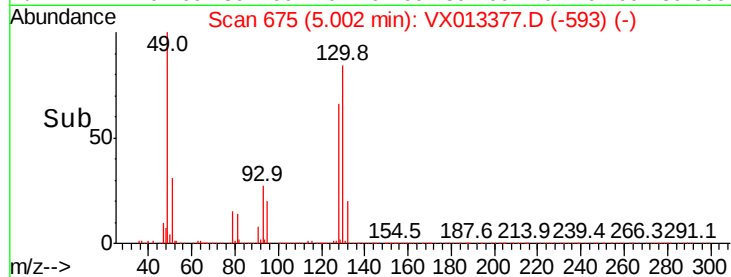
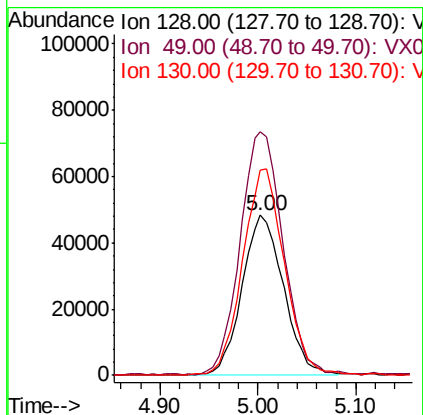
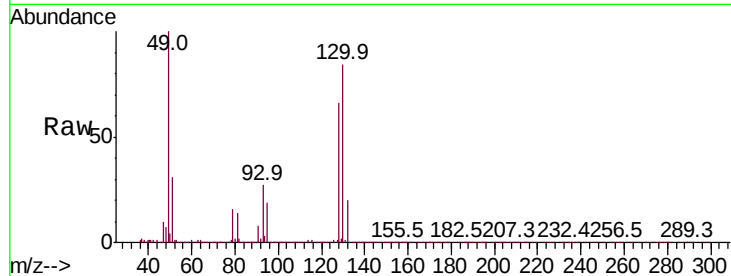


#1

Bromochloromethane  
Concen: 30.000 ug/l  
RT: 5.00 min Scan# 675  
Delta R.T. 0.00 min  
Lab File: VX013377.D  
Acq: 12 Nov 2019 11:36

Instrument :  
MSVOA\_X  
ClientSampleId :  
TT-011-IDWGW-20191107

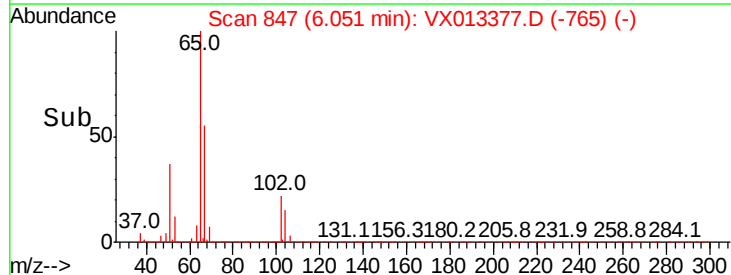
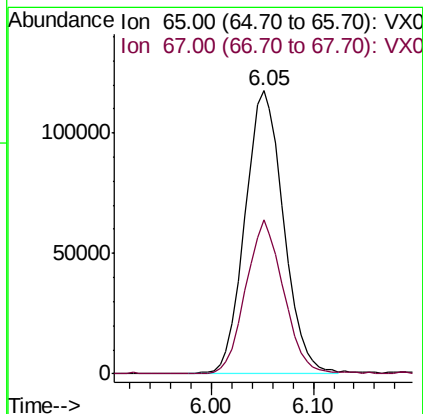
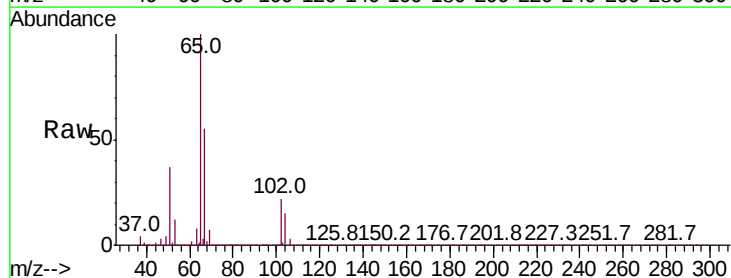
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 155.6 | 0.0   | 388.3 |
| 130     | 129.6 | 0.0   | 318.5 |

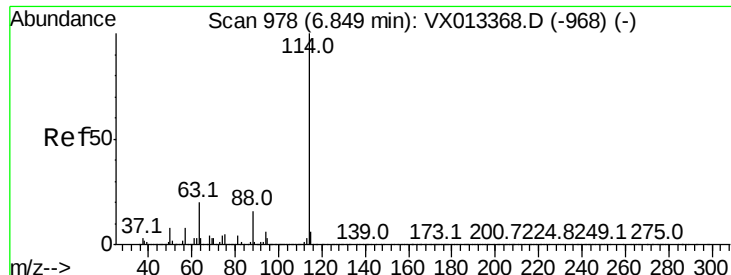


#27

1,2-Dichloroethane-d4  
Concen: 29.291 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. 0.00 min  
Lab File: VX013377.D  
Acq: 12 Nov 2019 11:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 53.2  | 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: VX013377.D

Acq: 12 Nov 2019 11:36

Instrument :

MSVOA\_X

ClientSampleId :

TT-011-IDWGW-20191107

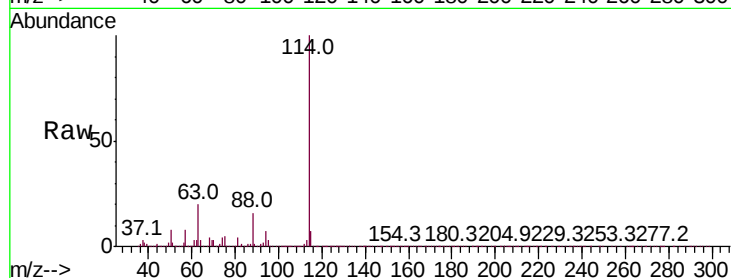
Tot Ion:114 Resp: 786856

Ion Ratio Lower Upper

114 100

63 19.9 16.1 24.1

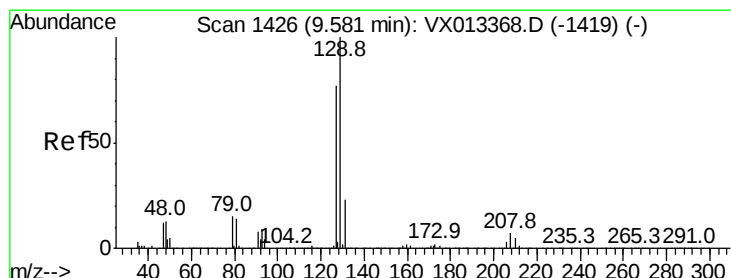
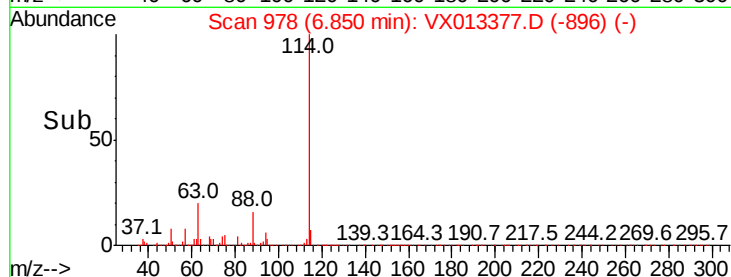
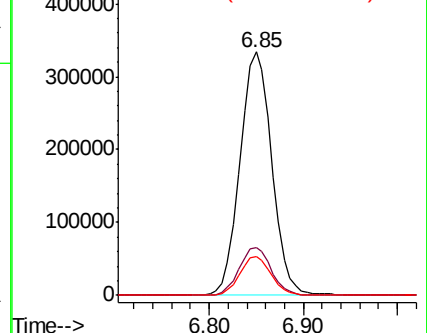
88 15.8 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0



#53

Dibromochloromethane

Concen: 0.537 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.00 min

Lab File: VX013377.D

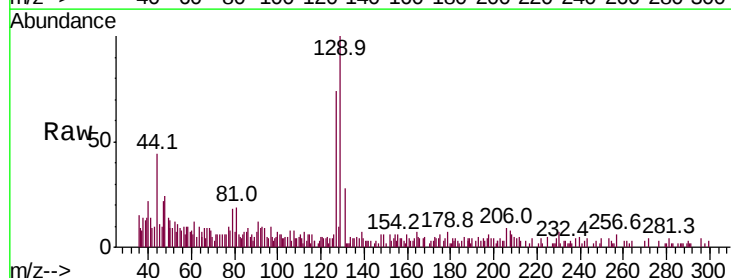
Acq: 12 Nov 2019 11:36

Tgt Ion:129 Resp: 5279

Ion Ratio Lower Upper

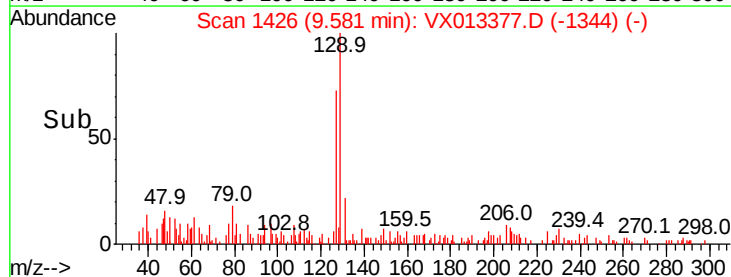
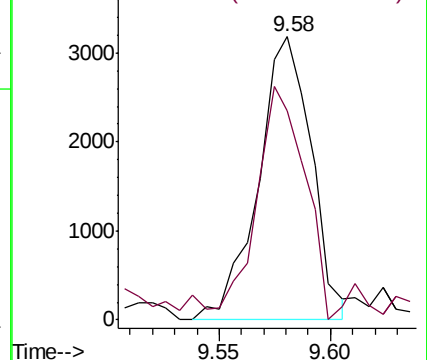
129 100

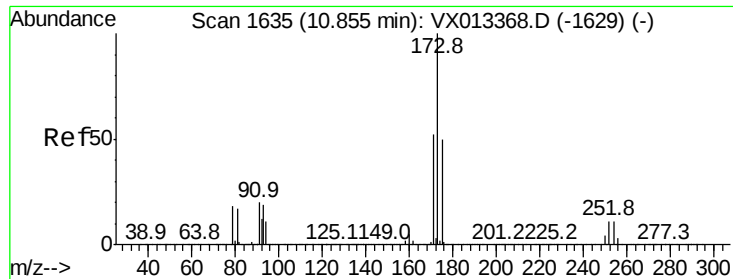
127 75.1 39.6 119.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

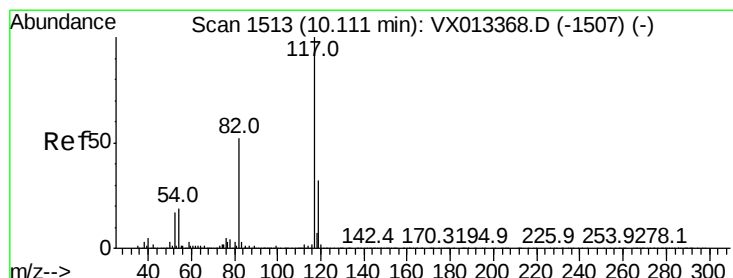
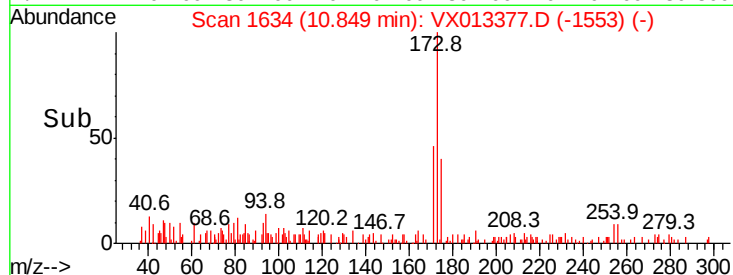
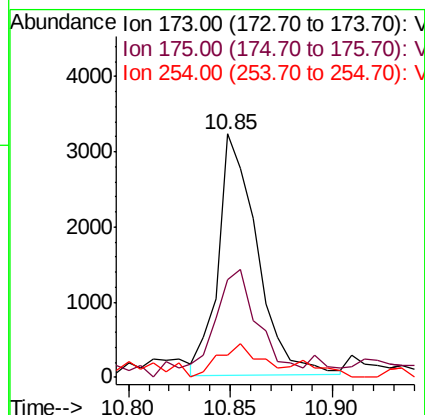
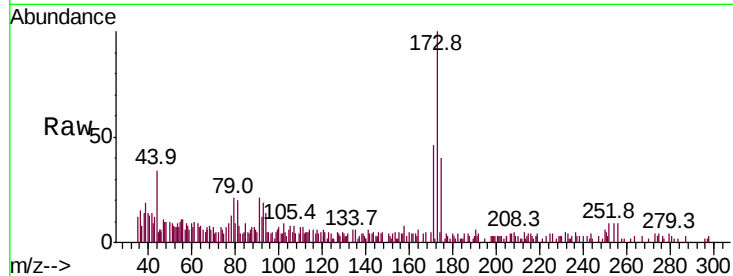




#56  
Bromoform  
Concen: 0.543 ug/l  
RT: 10.85 min Scan# 1634  
Delta R.T. -0.01 min  
Lab File: VX013377.D  
Acq: 12 Nov 2019 11:36

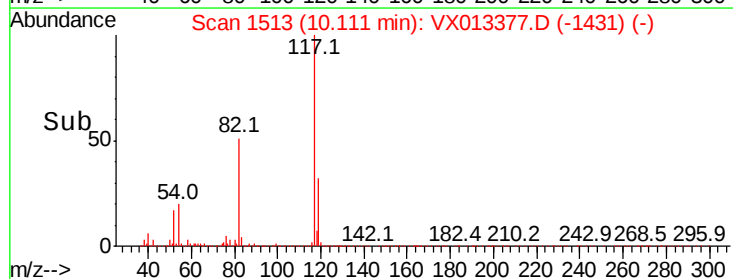
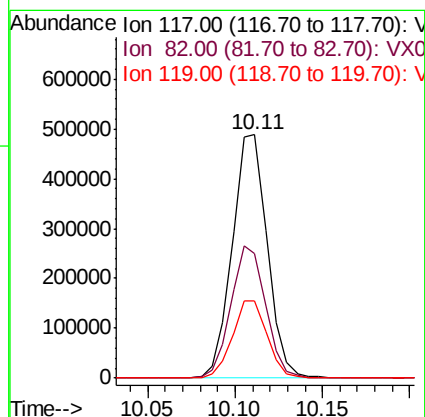
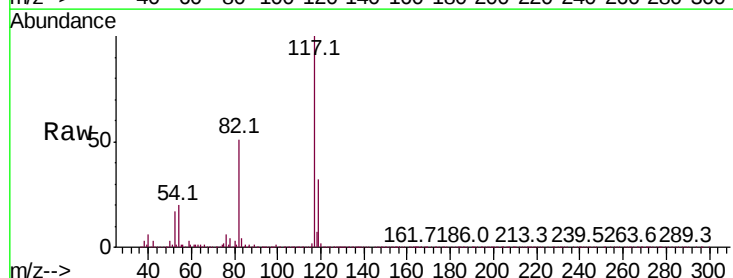
Instrument :  
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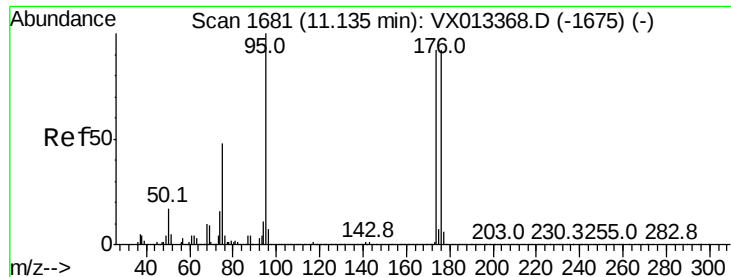
Tot Ion:173 Resp: 4255  
Ion Ratio Lower Upper  
173 100  
175 40.2 39.4 59.0  
254 15.0 8.6 12.8#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX013377.D  
Acq: 12 Nov 2019 11:36

Tgt Ion:117 Resp: 679501  
Ion Ratio Lower Upper  
117 100  
82 54.1 43.7 65.5  
119 31.6 25.5 38.3





#60

4-Bromofluorobenzene

Concen: 27.501 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013377.D

Acq: 12 Nov 2019 11:36

Instrument :

MSVOA\_X

ClientSampleId :

TT-011-IDWGW-20191107

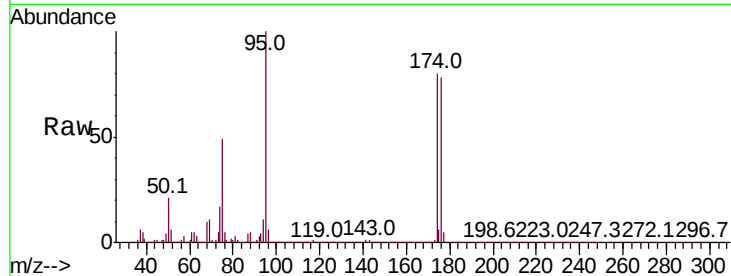
Tot Ion: 95 Resp: 300350

Ion Ratio Lower Upper

95 100

174 88.2 70.2 105.2

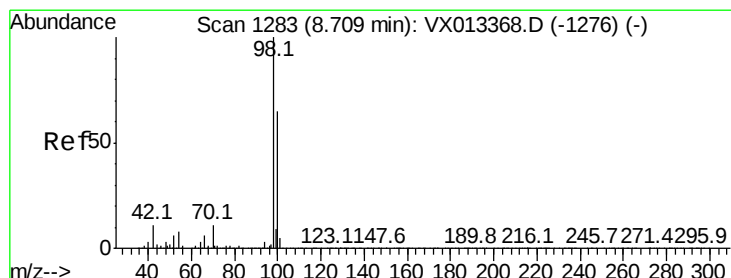
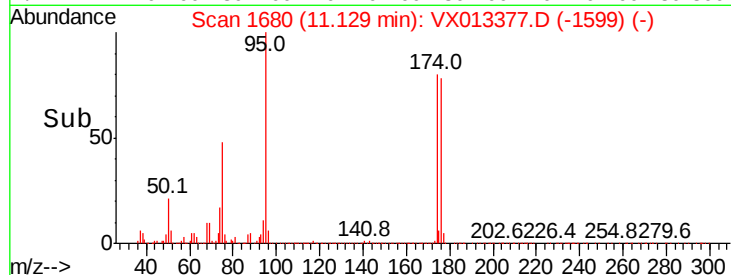
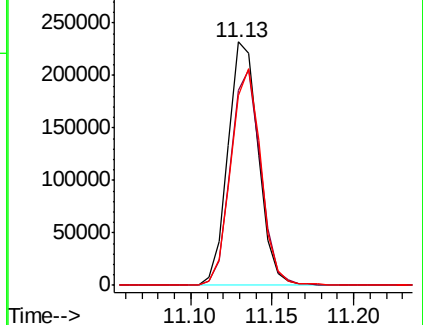
176 87.6 68.3 102.5



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Toluene-d8

Concen: 30.460 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013377.D

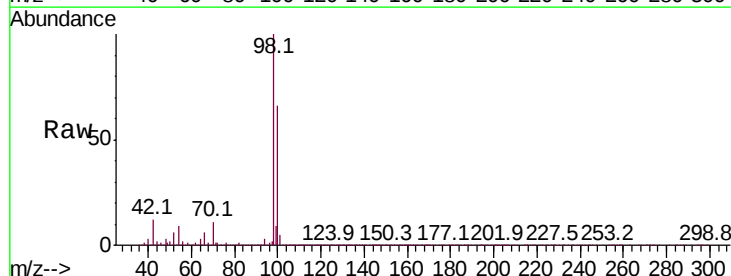
Acq: 12 Nov 2019 11:36

Tgt Ion: 98 Resp: 935927

Ion Ratio Lower Upper

98 100

100 65.9 52.5 78.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

