

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022219\  
 Data File : VX007655.D  
 Acq On : 22 Feb 2019 13:09  
 Operator : JC/SP  
 Sample : K1570-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 50-50

Quant Time: Feb 23 01:04:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Feb 13 07:51:18 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.03  | 128  | 67642    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.86  | 114  | 362625   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 312547   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.07   | 65    | 136475   | 31.19    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 103.97% |
| 60) 4-Bromofluorobenzene  | 11.13  | 95    | 134215   | 27.98    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 93.27%  |
| 63) Toluene-d8            | 8.71   | 98    | 423046   | 29.95    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 99.83%  |

## Target Compounds

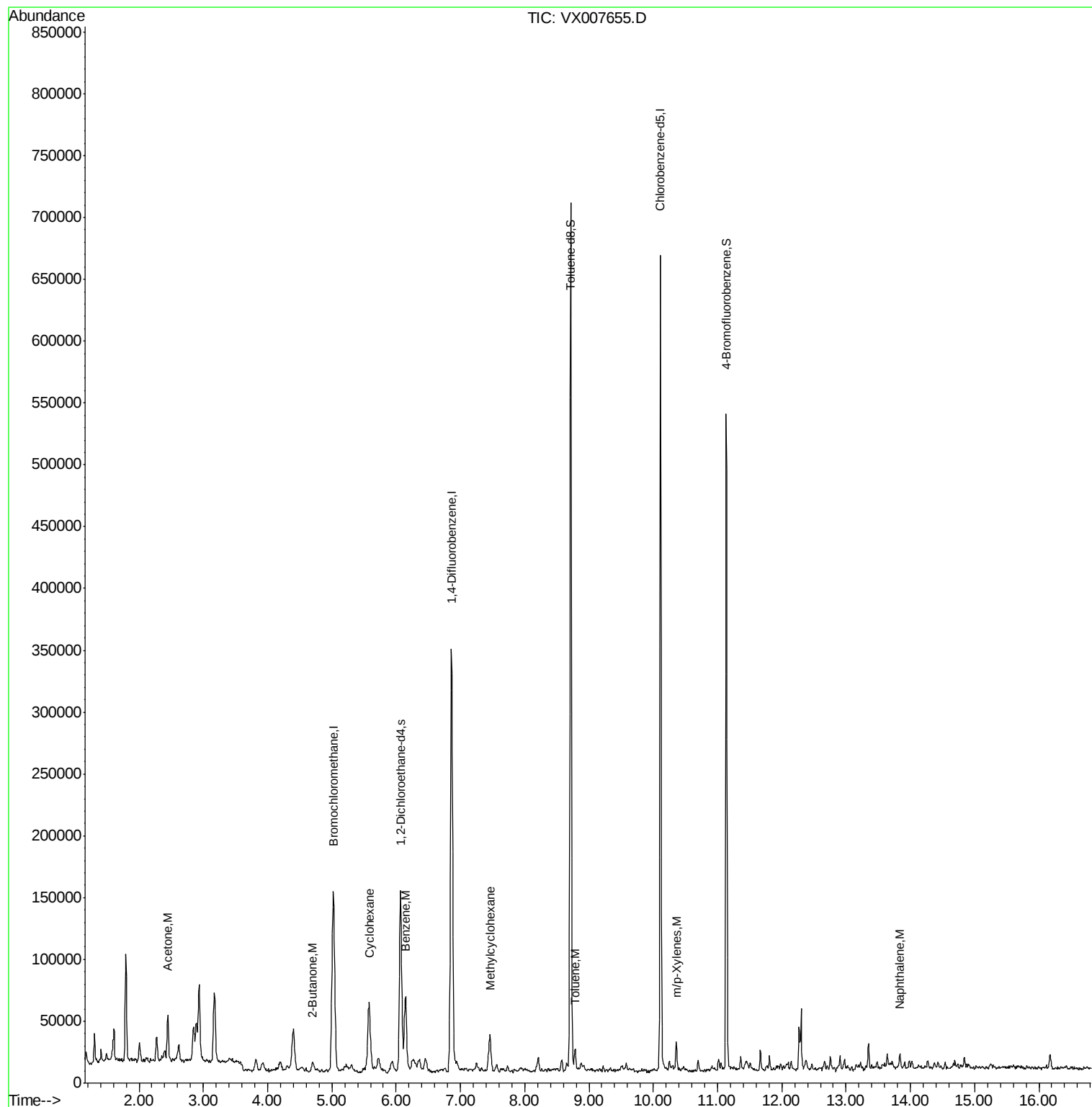
|                       |       |     |       |        | Ovalue    |
|-----------------------|-------|-----|-------|--------|-----------|
| 15) Acetone           | 2.45  | 58  | 14069 | 21.954 | ug/l 92   |
| 26) Cyclohexane       | 5.58  | 56  | 34774 | 6.148  | ug/l # 98 |
| 30) 2-Butanone        | 4.70  | 43  | 13724 | 4.585  | ug/l # 89 |
| 34) Benzene           | 6.15  | 78  | 73681 | 4.621  | ug/l 97   |
| 38) Methylcyclohexane | 7.46  | 83  | 11751 | 2.007  | ug/l 82   |
| 62) Toluene           | 8.79  | 91  | 9556  | 0.561  | ug/l 92   |
| 67) m/p-Xylenes       | 10.36 | 106 | 5931  | 0.837  | ug/l 89   |
| 91) Naphthalene       | 13.83 | 128 | 7783  | 0.423  | ug/l # 92 |

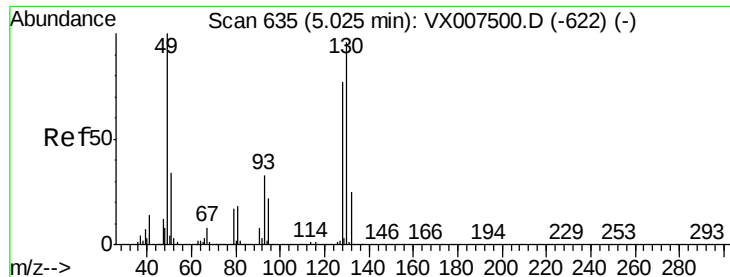
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX022219\  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
50-50

Quant Time: Feb 23 01:04:59 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Feb 13 07:51:18 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.03 min Scan# 635

Delta R.T. 0.00 min

Lab File: VX007655.D

Acq: 22 Feb 2019 13:09

Instrument :

MSVOA\_X

ClientSampleId :

50-50

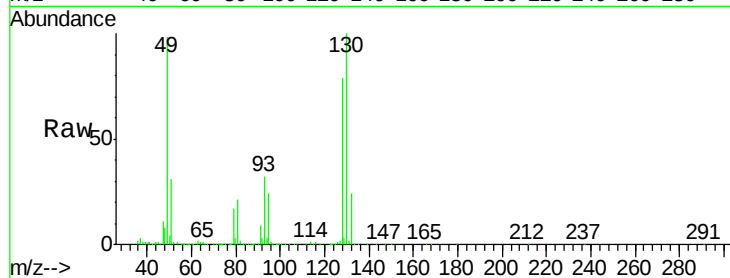
Tot Ion:128 Resp: 67642

Ion Ratio Lower Upper

128 100

49 139.3 0.0 350.8

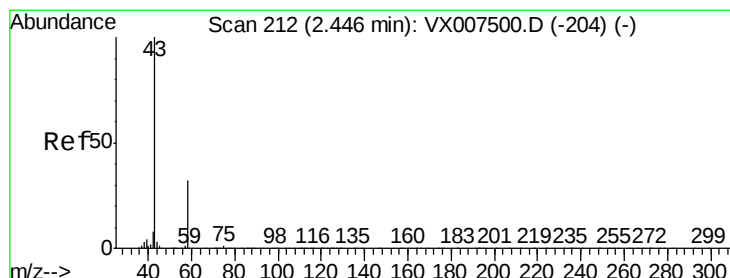
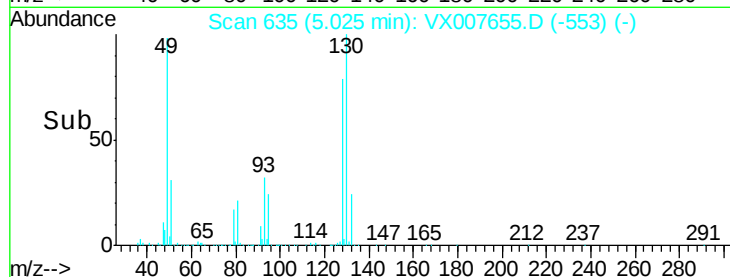
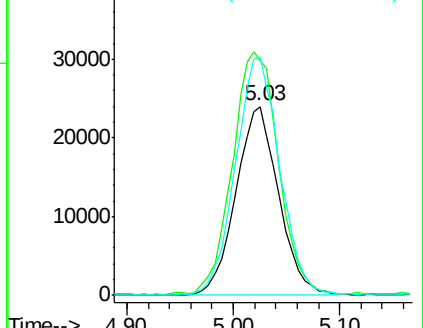
130 130.7 0.0 325.8



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



#15

Acetone

Concen: 21.954 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007655.D

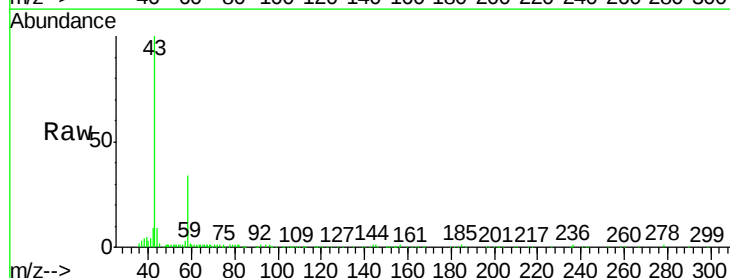
Acq: 22 Feb 2019 13:09

Tgt Ion: 58 Resp: 14069

Ion Ratio Lower Upper

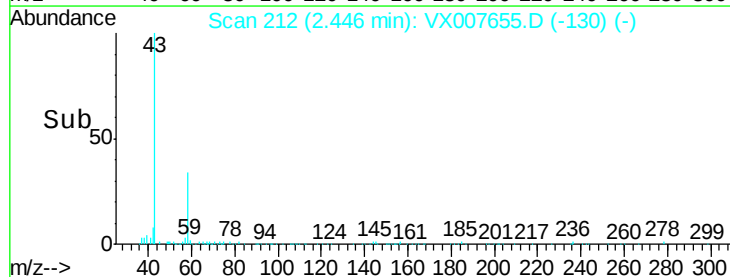
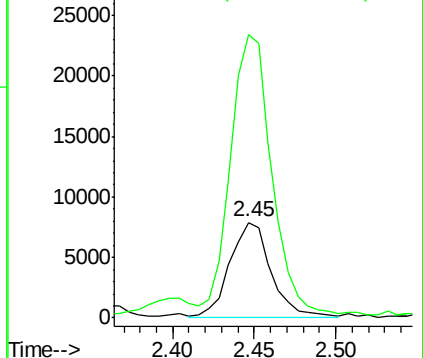
58 100

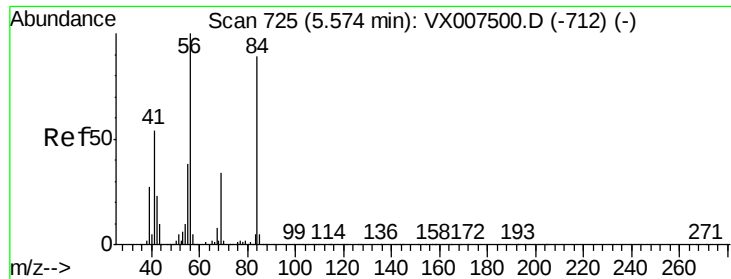
43 296.4 249.8 374.6



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

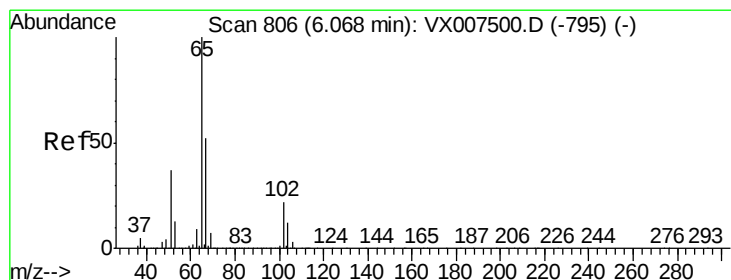
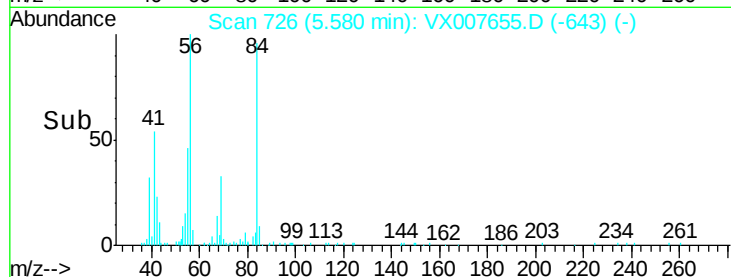
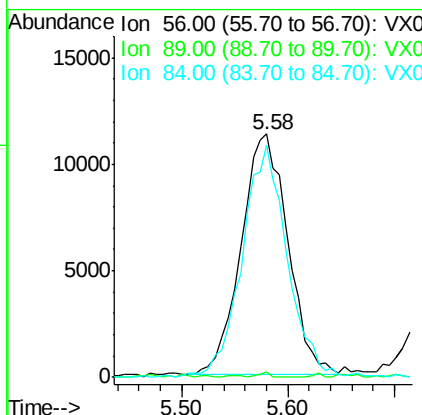
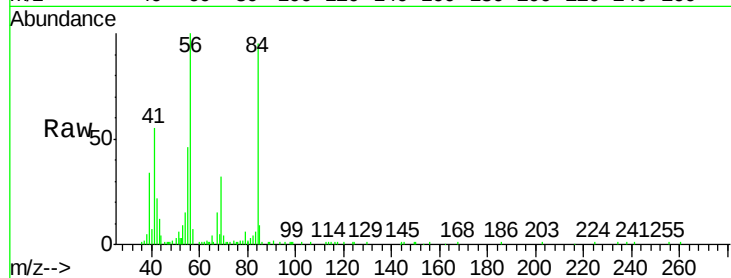




#26  
Cyclohexane  
Concen: 6.148 ug/l  
RT: 5.58 min Scan# 726  
Delta R.T. 0.01 min  
Lab File: VX007655.D  
Acq: 22 Feb 2019 13:09

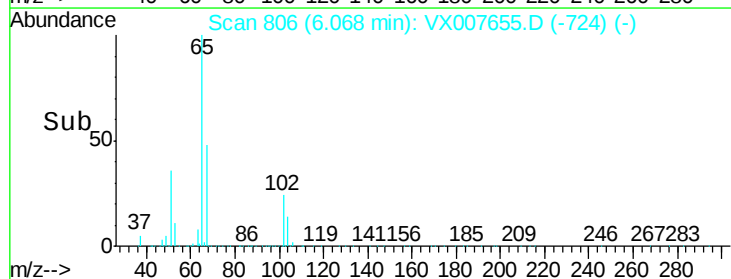
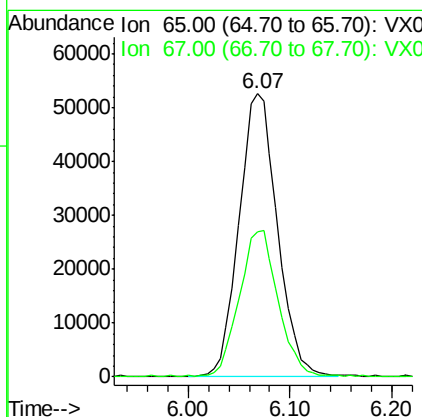
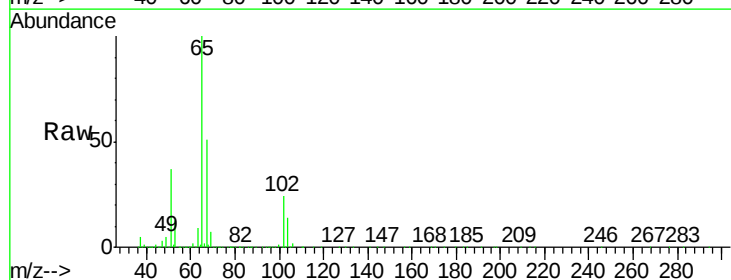
Instrument :  
MSVOA\_X  
ClientSampleId :  
50-50

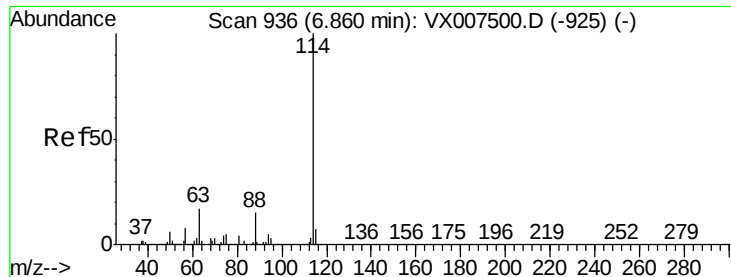
Tot Ion: 56 Resp: 34774  
Ion Ratio Lower Upper  
56 100  
89 0.5 0.0 0.0#  
84 91.0 73.9 110.9



#27  
1,2-Dichloroethane-d4  
Concen: 31.190 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. 0.00 min  
Lab File: VX007655.D  
Acq: 22 Feb 2019 13:09

Tgt Ion: 65 Resp: 136475  
Ion Ratio Lower Upper  
65 100  
67 52.0 42.9 64.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007655.D

Acq: 22 Feb 2019 13:09

Instrument :

MSVOA\_X

ClientSampleId :

50-50

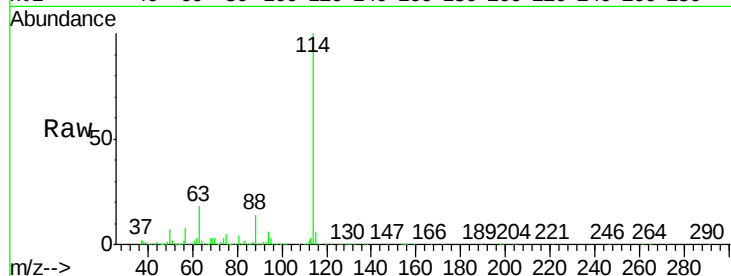
Tot Ion:114 Resp: 362625

Ion Ratio Lower Upper

114 100

63 18.0 14.2 21.4

88 14.6 11.9 17.9

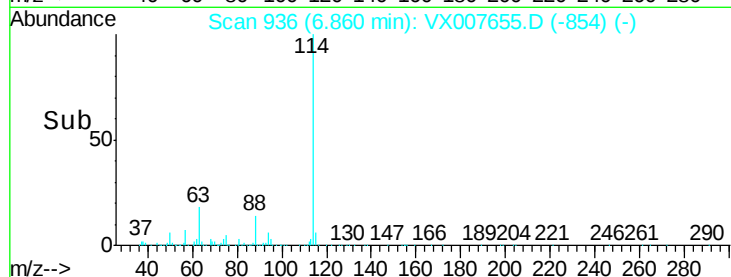


Abundance Ion 114.00 (113.70 to 114.70): V

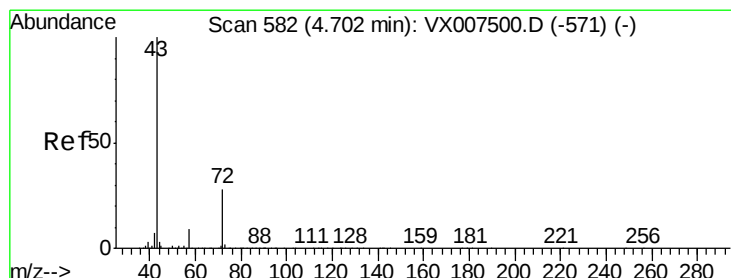
Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

6.86



Time--> 6.70 6.80 6.90 7.00



#30

2-Butanone

Concen: 4.585 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX007655.D

Acq: 22 Feb 2019 13:09

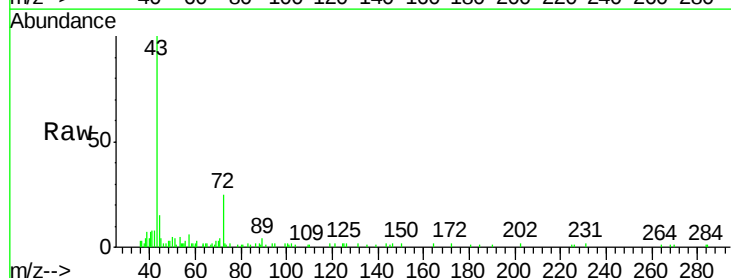
Tgt Ion: 43 Resp: 13724

Ion Ratio Lower Upper

43 100

57 2.0 7.0 10.6#

72 31.5 21.5 32.3

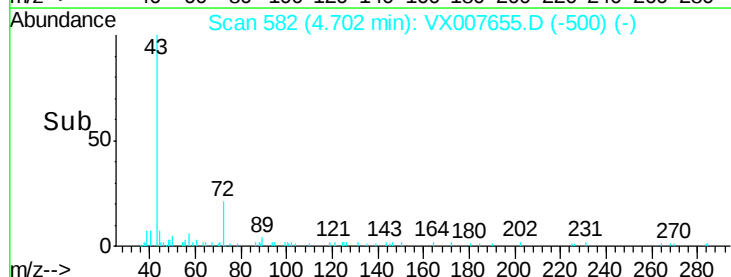


Abundance Ion 43.00 (42.70 to 43.70): VX0

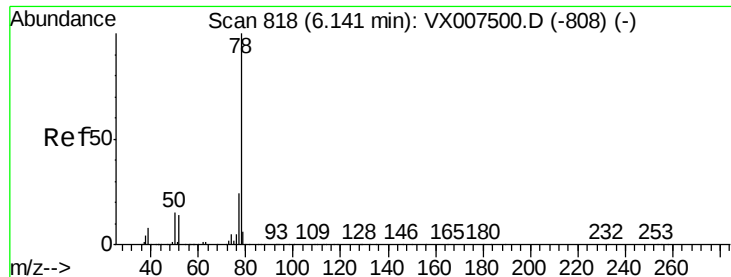
Ion 57.00 (56.70 to 57.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.70



Time--> 4.60 4.65 4.70 4.75 4.80



#34

Benzene

Concen: 4.621 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX007655.D

Acq: 22 Feb 2019 13:09

Instrument :

MSVOA\_X

ClientSampled :

50-50

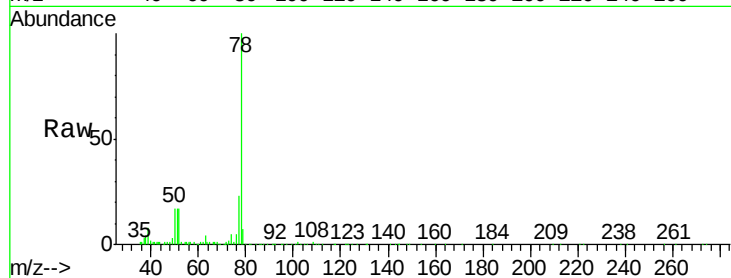
Tot Ion: 78 Resp: 73681

Ion Ratio Lower Upper

78 100

77 23.0 19.1 28.7

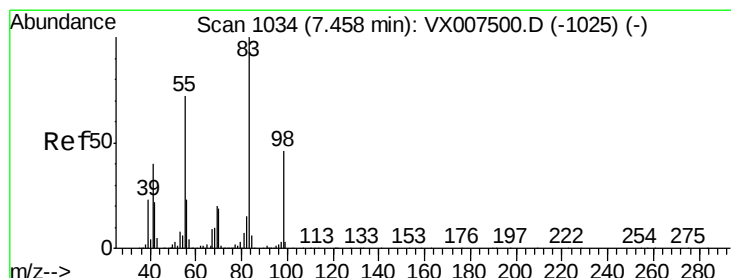
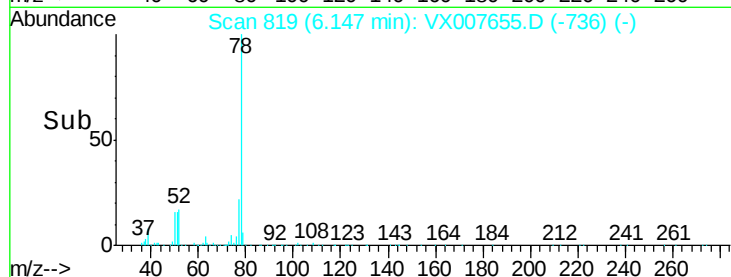
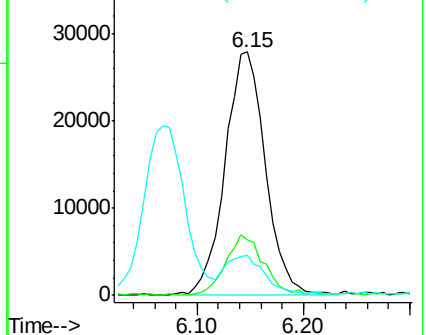
51 16.0 10.8 16.2



Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#38

Methylcyclohexane

Concen: 2.007 ug/l

RT: 7.46 min Scan# 1034

Delta R.T. 0.00 min

Lab File: VX007655.D

Acq: 22 Feb 2019 13:09

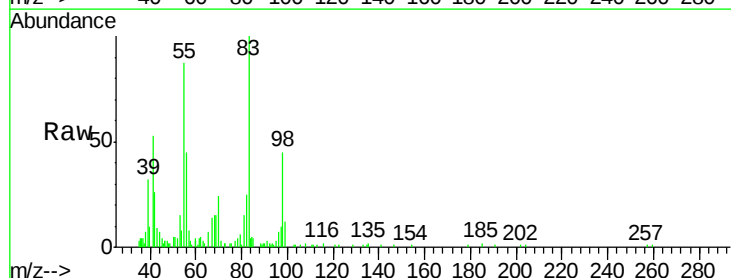
Tgt Ion: 83 Resp: 11751

Ion Ratio Lower Upper

83 100

55 90.7 36.0 108.0

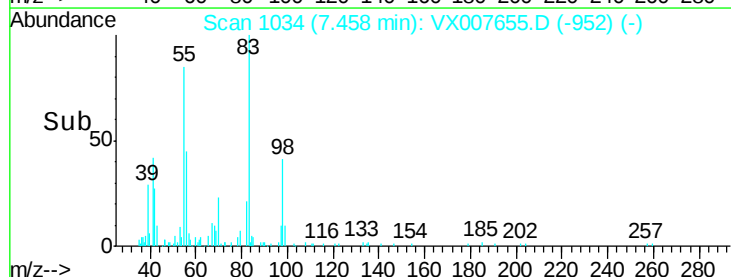
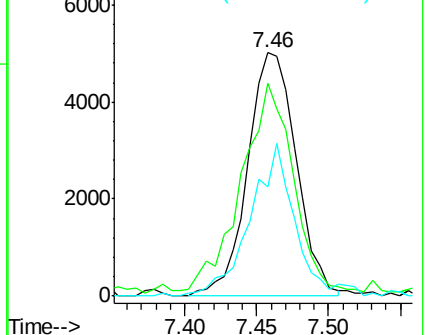
98 55.6 23.8 71.4

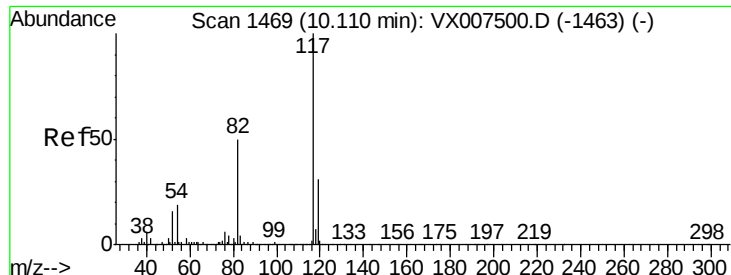


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

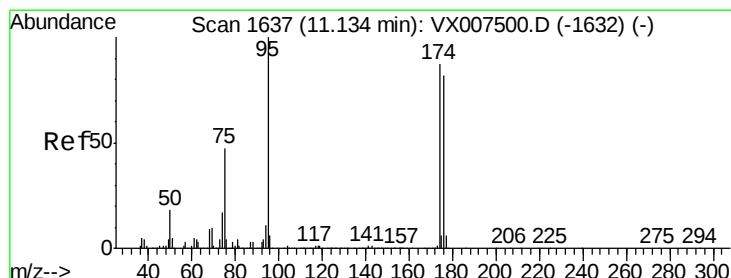
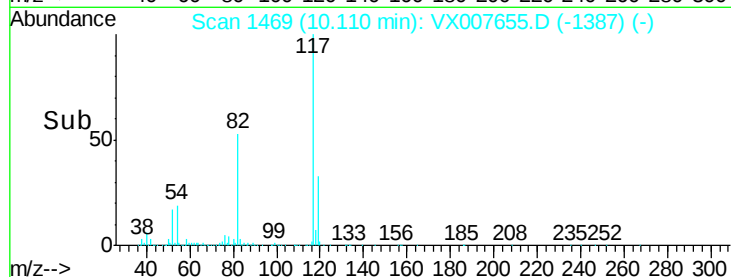
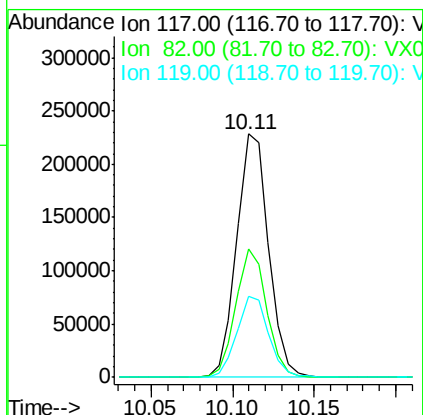
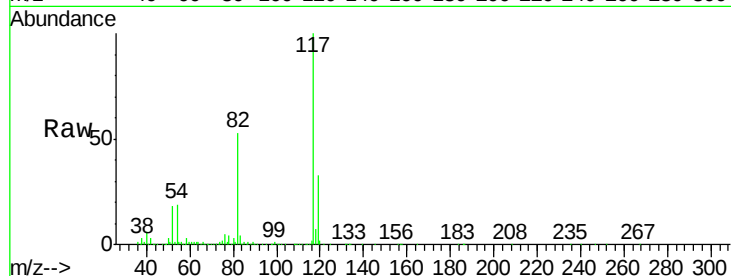




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX007655.D  
Acq: 22 Feb 2019 13:09

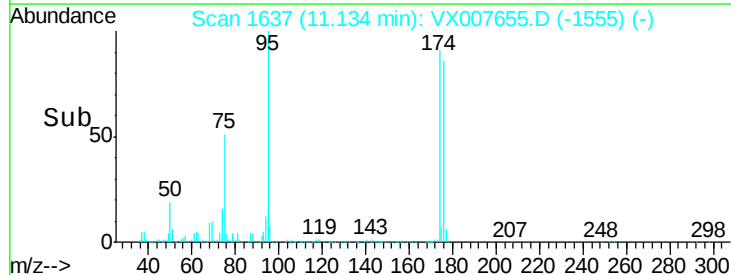
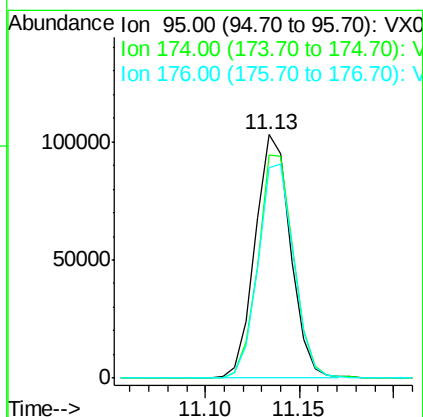
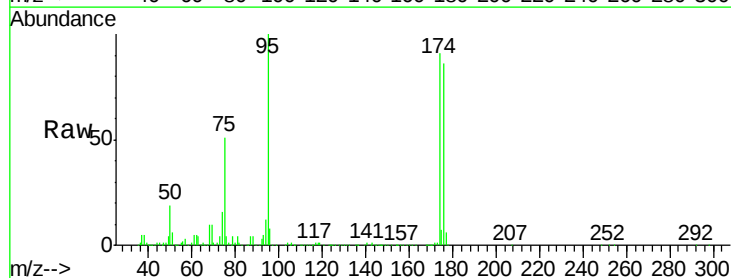
Instrument :  
MSVOA\_X  
ClientSampleId :  
50-50

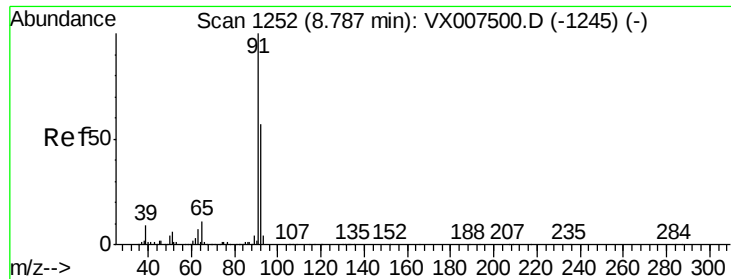
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.2  | 40.4  | 60.6  |
| 119     | 33.1  | 25.8  | 38.6  |



#60  
4-Bromofluorobenzene  
Concen: 27.979 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX007655.D  
Acq: 22 Feb 2019 13:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 92.4  | 74.9  | 112.3 |
| 176     | 88.5  | 70.7  | 106.1 |





#62

Toluene

Concen: 0.561 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX007655.D

Acq: 22 Feb 2019 13:09

Instrument :

MSVOA\_X

ClientSampleId :

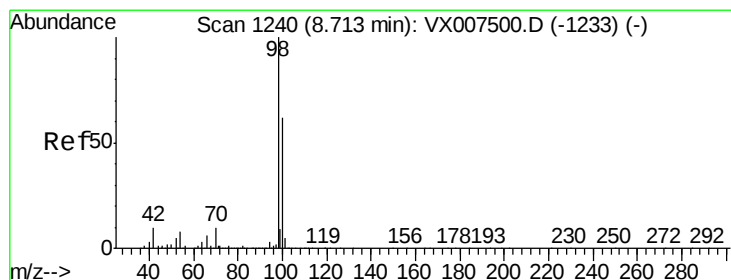
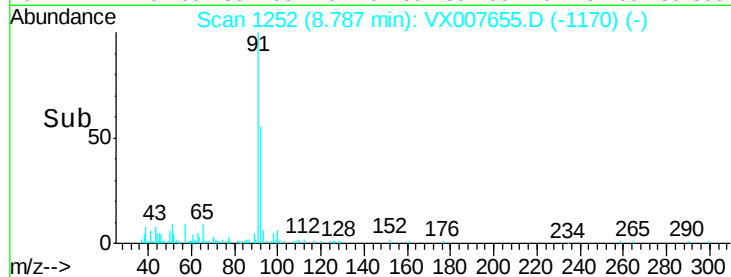
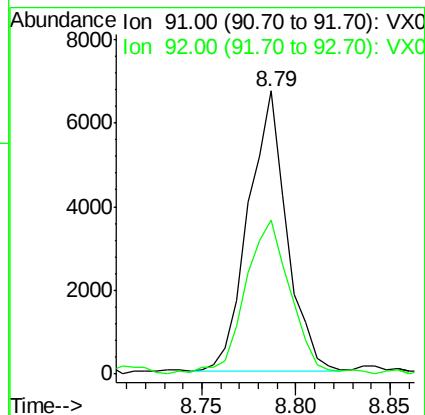
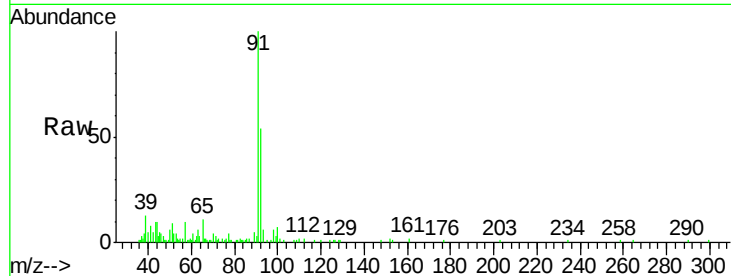
50-50

Tot Ion: 91 Resp: 9556

Ion Ratio Lower Upper

91 100

92 64.3 46.4 69.6



#63

Toluene-d8

Concen: 29.947 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007655.D

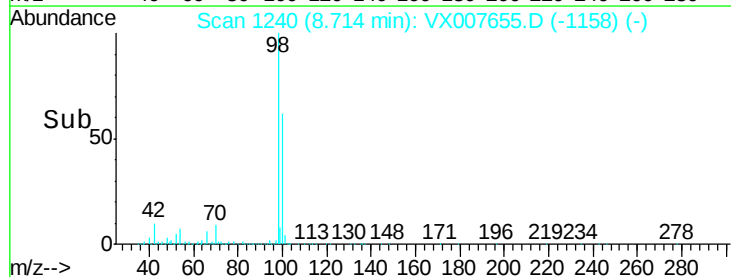
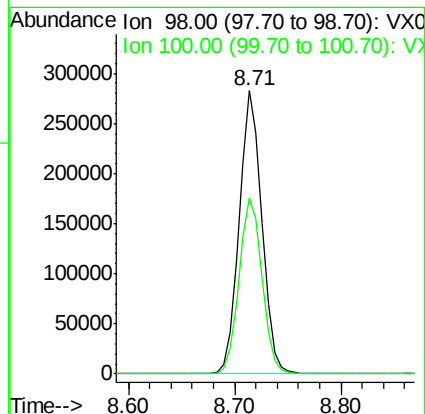
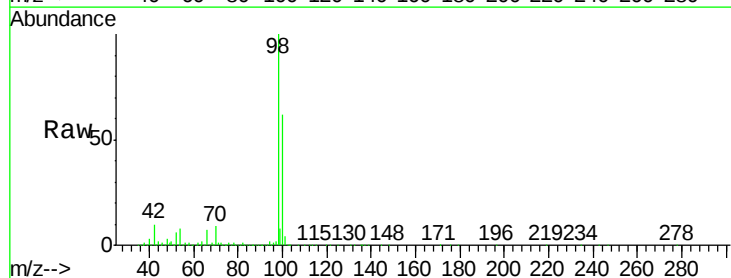
Acq: 22 Feb 2019 13:09

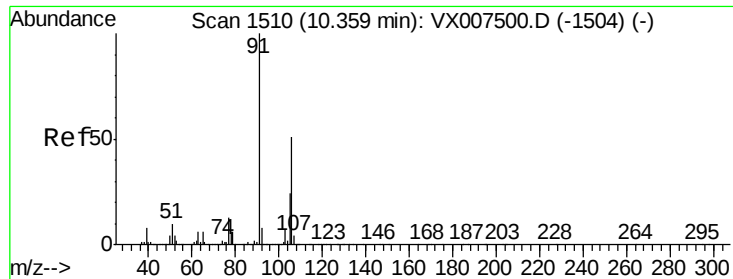
Tgt Ion: 98 Resp: 423046

Ion Ratio Lower Upper

98 100

100 62.8 50.9 76.3





#67

m/p-Xylenes

Concen: 0.837 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX007655.D

Acq: 22 Feb 2019 13:09

Instrument :

MSVOA\_X

ClientSampled :

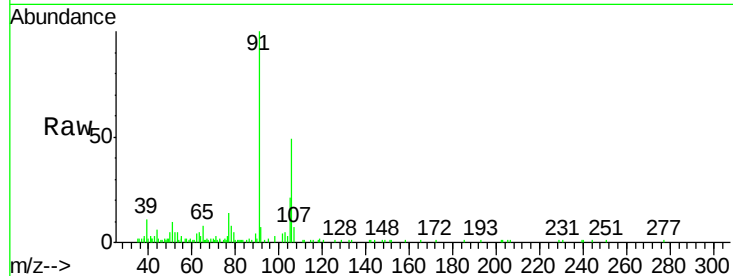
50-50

Tot Ion:106 Resp: 5931

Ion Ratio Lower Upper

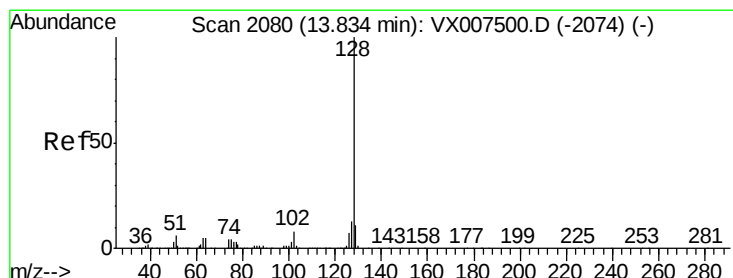
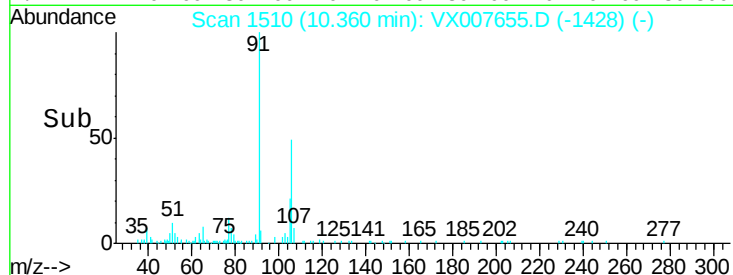
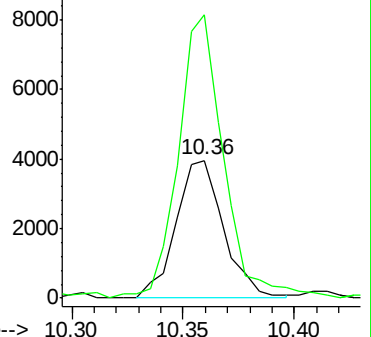
106 100

91 180.0 157.0 235.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#91

Naphthalene

Concen: 0.423 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007655.D

Acq: 22 Feb 2019 13:09

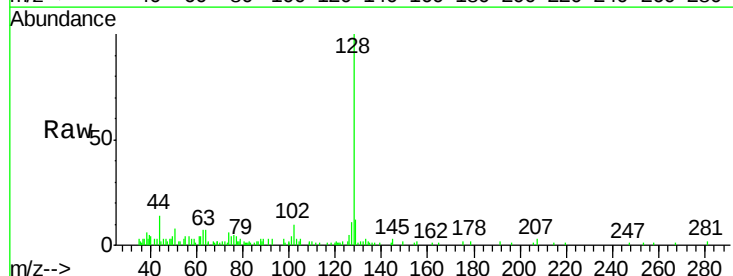
Tgt Ion:128 Resp: 7783

Ion Ratio Lower Upper

128 100

127 14.5 10.5 15.7

129 16.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

