

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011520\  
 Data File : VX014619.D  
 Acq On : 15 Jan 2020 15:28  
 Operator : JC/SP  
 Sample : L1102-01 5X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EFF-WW

Quant Time: Jan 16 02:10:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jan 15 12:41:12 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.01  | 128  | 71635    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 397087   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.10 | 117  | 365819   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.05   | 65    | 158050   | 31.39    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 104.63% |
| 60) 4-Bromofluorobenzene  | 11.13  | 95    | 174090   | 29.74    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 99.13%  |
| 63) Toluene-d8            | 8.71   | 98    | 488452   | 29.56    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 98.53%  |

## Target Compounds

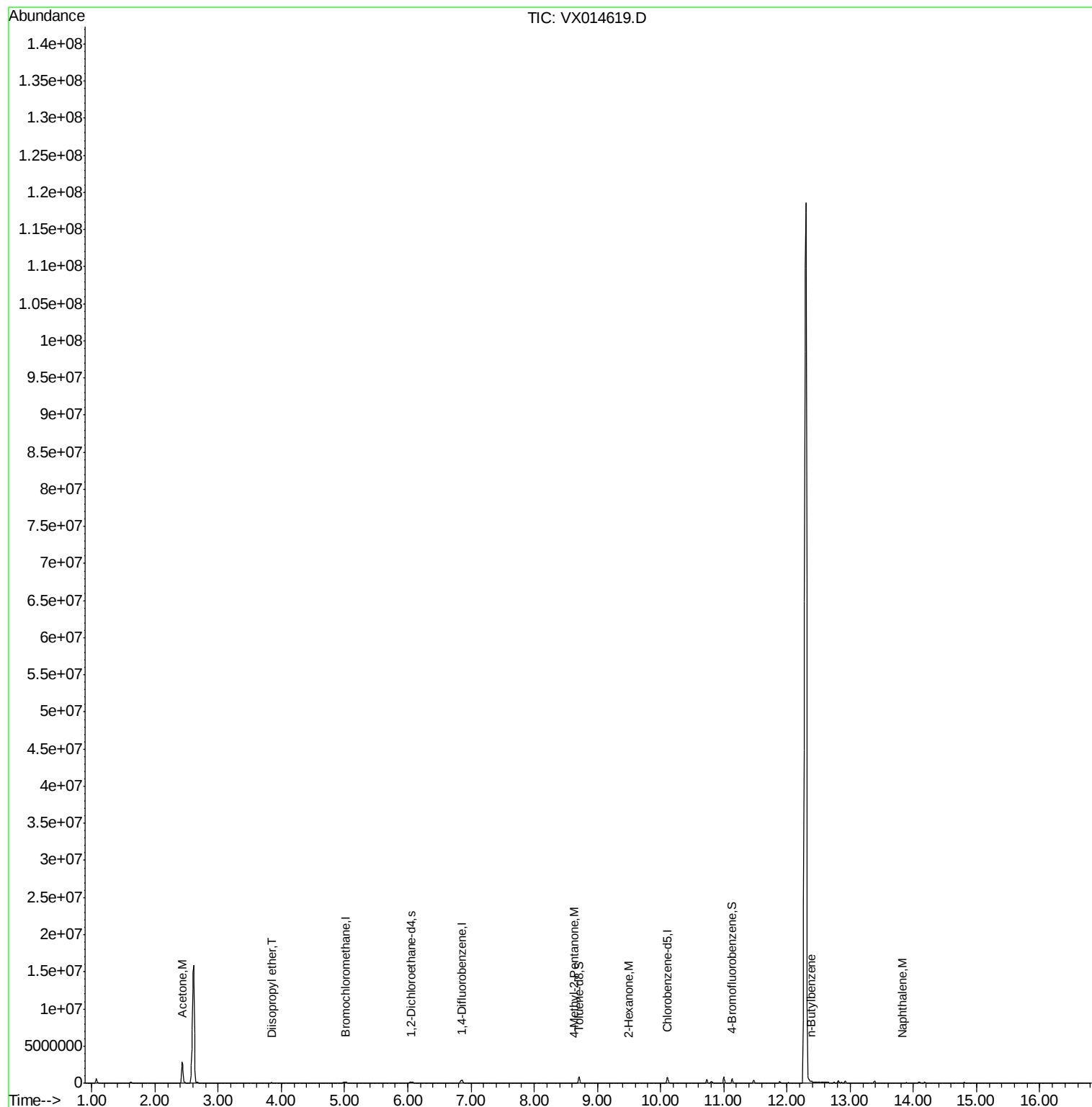
|                          |       |     |        |          | Ovalue    |
|--------------------------|-------|-----|--------|----------|-----------|
| 15) Acetone              | 2.43  | 58  | 921632 | 1121.536 | ug/l 90   |
| 20) Diisopropyl ether    | 3.84  | 45  | 48259  | 3.324    | ug/l # 88 |
| 58) 4-Methyl-2-Pentanone | 8.64  | 43  | 14396  | 2.090    | ug/l 97   |
| 59) 2-Hexanone           | 9.49  | 43  | 18402  | 3.454    | ug/l 99   |
| 85) n-Butylbenzene       | 12.38 | 91  | 3402   | 0.214    | ug/l 89   |
| 91) Naphthalene          | 13.83 | 128 | 4500   | 0.234    | ug/l # 88 |

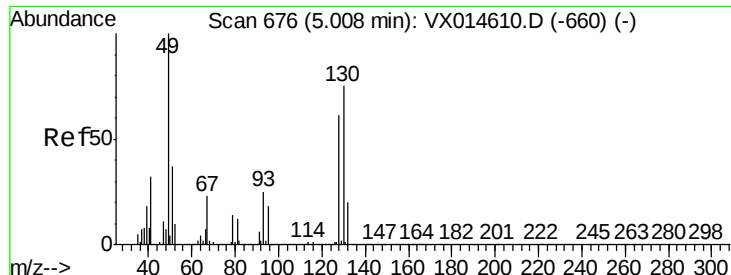
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011520\  
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Sample : L1102-01 5X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW

Quant Time: Jan 16 02:10:00 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Jan 15 12:41:12 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014619.D

Acq: 15 Jan 2020 15:28

Instrument :

MSVOA\_X

ClientSampleId :

EFF-WW

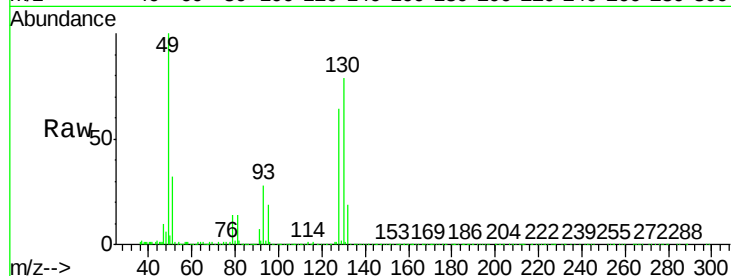
Tot Ion:128 Resp: 71635

Ion Ratio Lower Upper

128 100

49 159.1 0.0 405.0

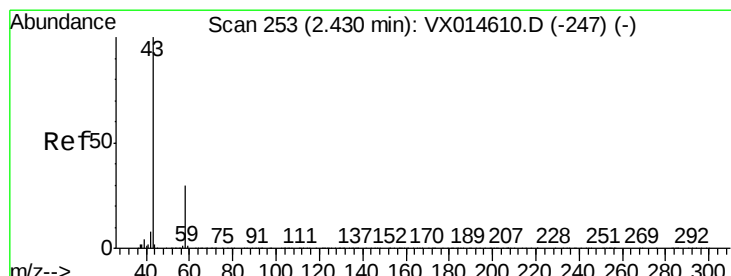
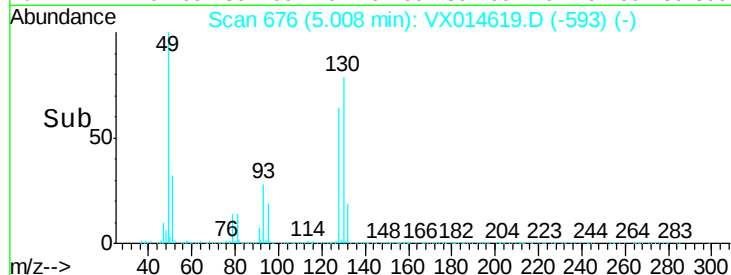
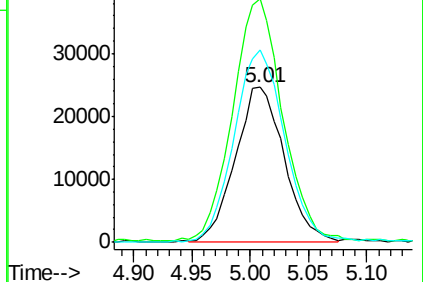
130 128.6 0.0 321.5



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



#15

Acetone

Concen: 1121.536 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014619.D

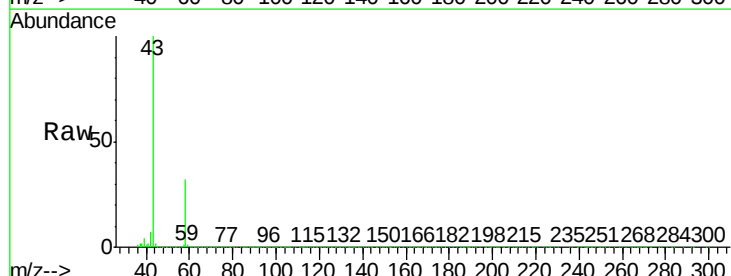
Acq: 15 Jan 2020 15:28

Tgt Ion: 58 Resp: 921632

Ion Ratio Lower Upper

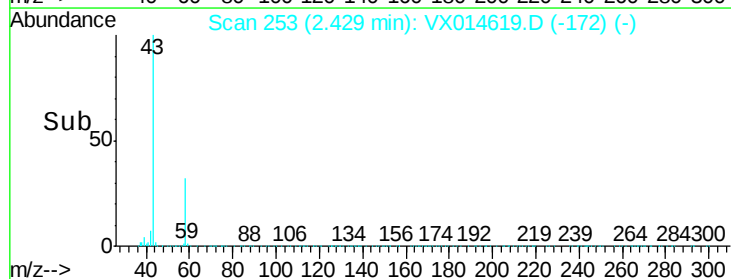
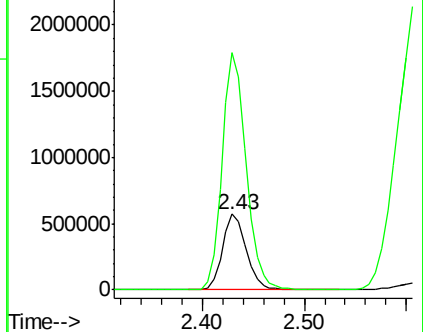
58 100

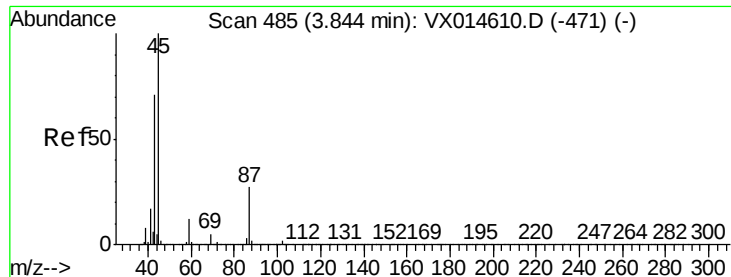
43 314.5 236.3 354.5



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

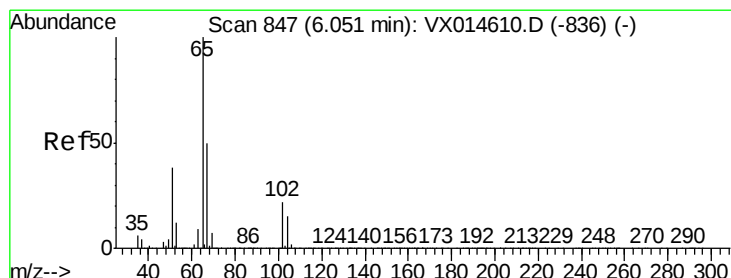
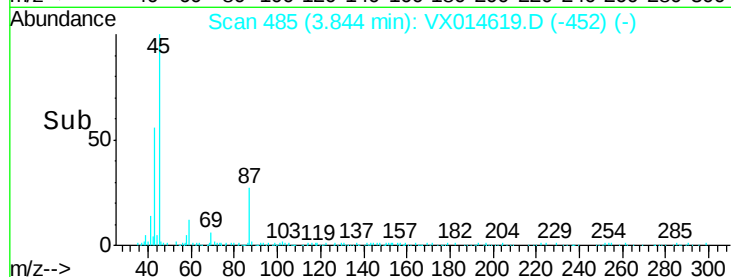
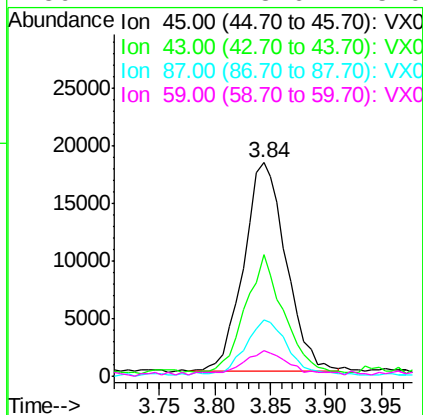
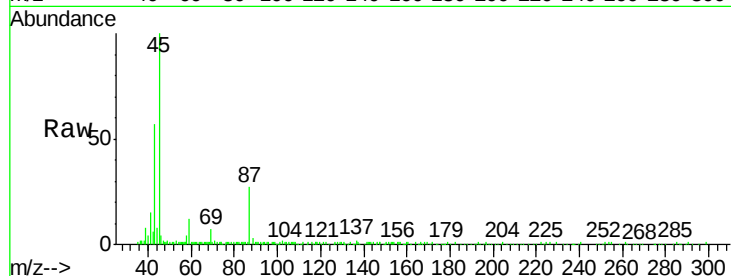




#20  
Diisopropyl ether  
Concen: 3.324 ug/l  
RT: 3.84 min Scan# 485  
Delta R.T. -0.00 min  
Lab File: VX014619.D  
Acq: 15 Jan 2020 15:28

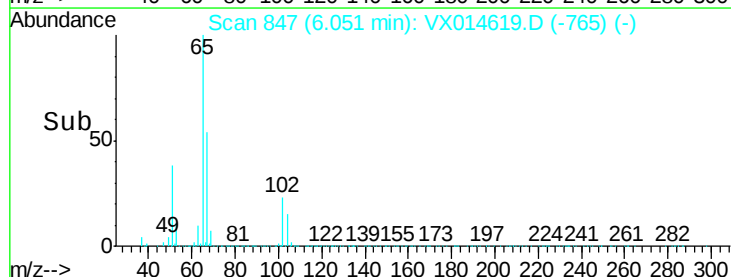
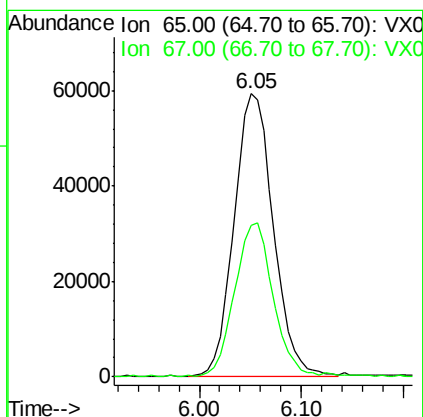
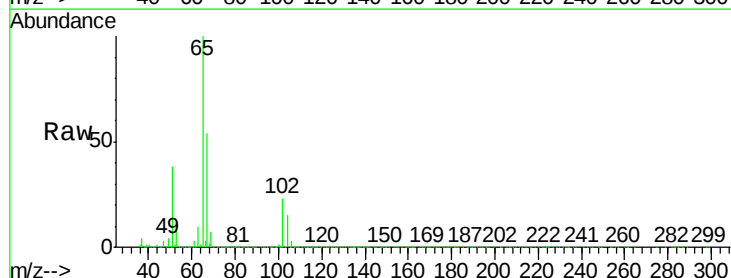
Instrument :  
MSVOA\_X  
ClientSampled :  
EFF-WW

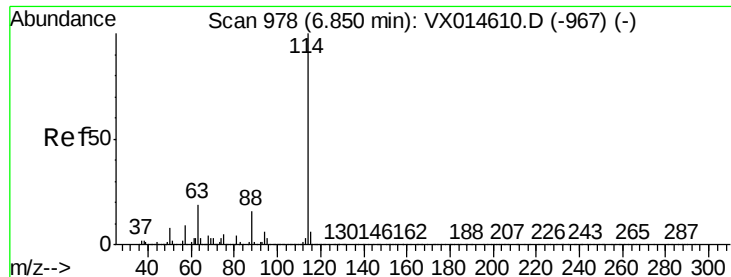
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 45    | Resp: | 48259 |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 55.4  | 55.9  | 83.9# |
| 87       | 26.6  | 22.2  | 33.2  |
| 59       | 11.7  | 8.6   | 13.0  |



#27  
1,2-Dichloroethane-d4  
Concen: 31.389 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. -0.00 min  
Lab File: VX014619.D  
Acq: 15 Jan 2020 15:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 158050 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 52.7  | 43.1  | 64.7   |





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014619.D

Acq: 15 Jan 2020 15:28

Instrument :

MSVOA\_X

ClientSampleId :

EFF-WW

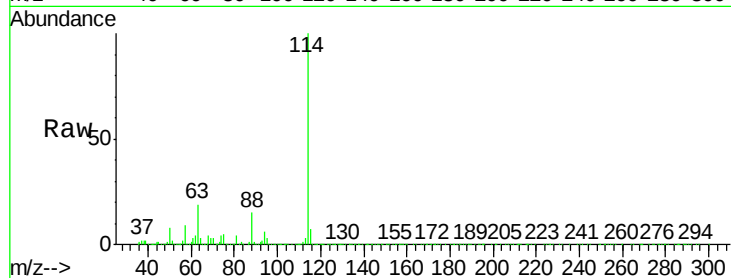
Tot Ion:114 Resp: 397087

Ion Ratio Lower Upper

114 100

63 20.0 16.1 24.1

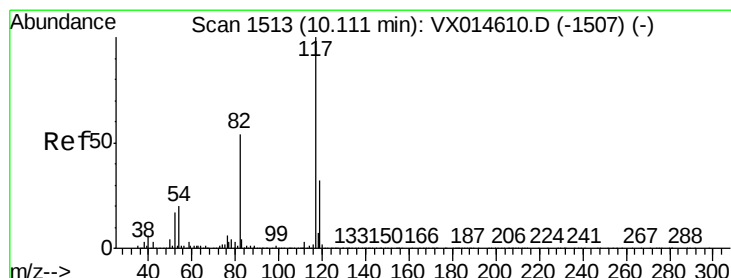
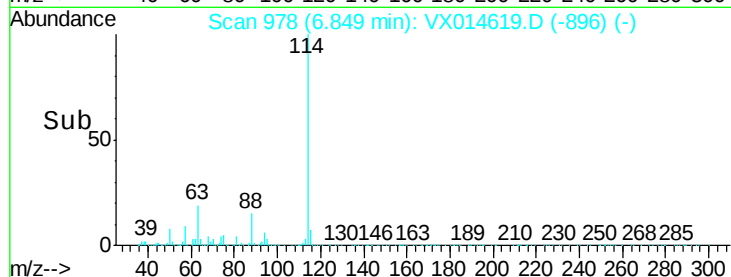
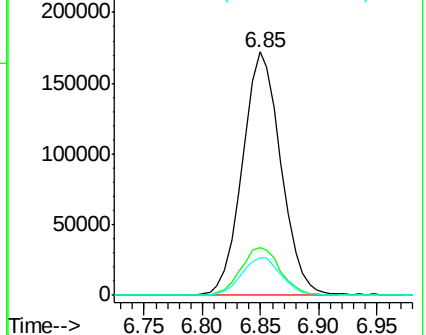
88 15.9 12.5 18.7



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



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.10 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX014619.D

Acq: 15 Jan 2020 15:28

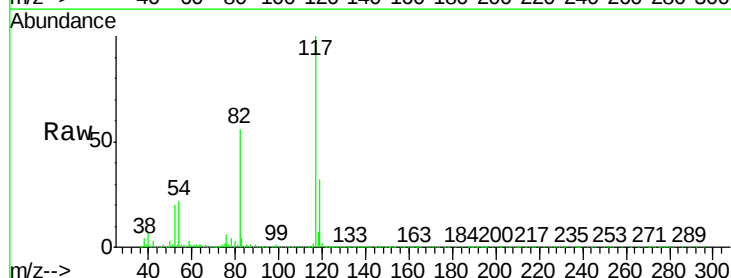
Tgt Ion:117 Resp: 365819

Ion Ratio Lower Upper

117 100

82 53.5 43.8 65.6

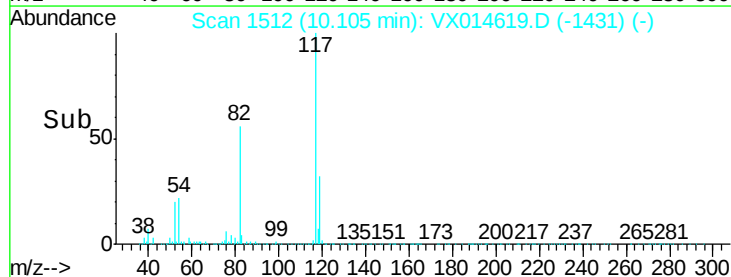
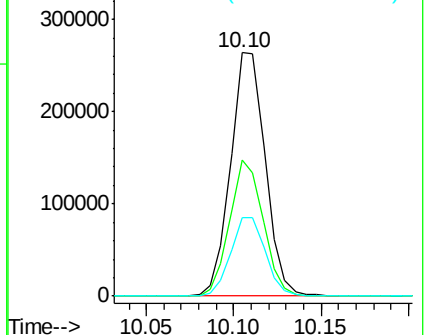
119 32.2 25.8 38.6

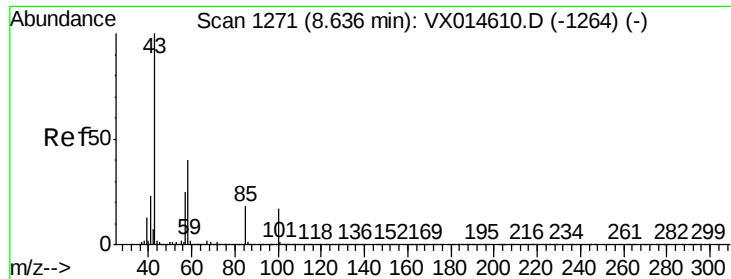


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

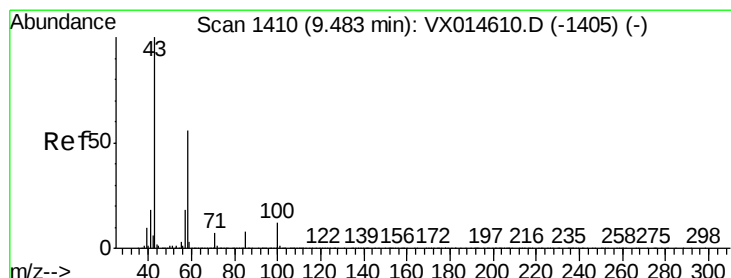
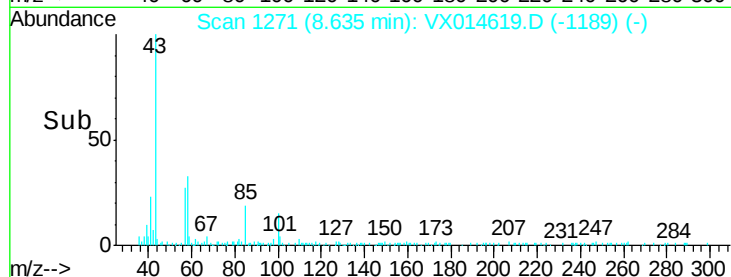
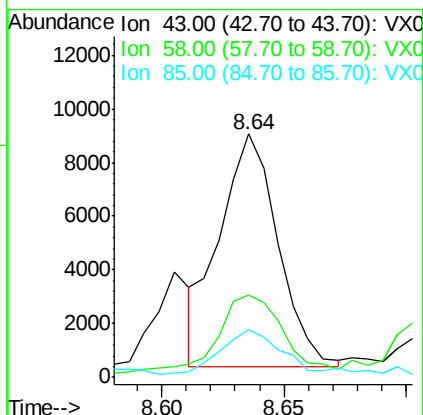
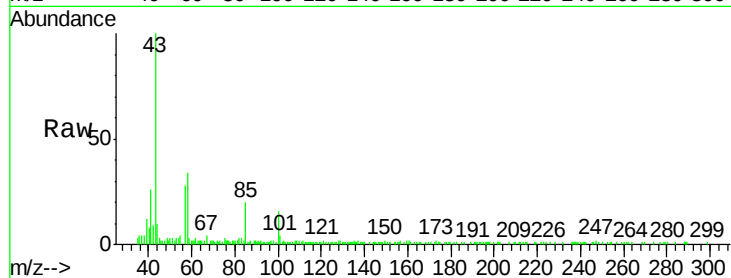




#58  
4-Methyl-2-Pentanone  
Concen: 2.090 ug/l  
RT: 8.64 min Scan# 1271  
Delta R.T. -0.00 min  
Lab File: VX014619.D  
Acq: 15 Jan 2020 15:28

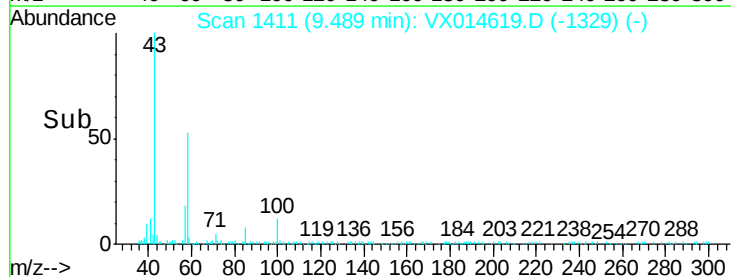
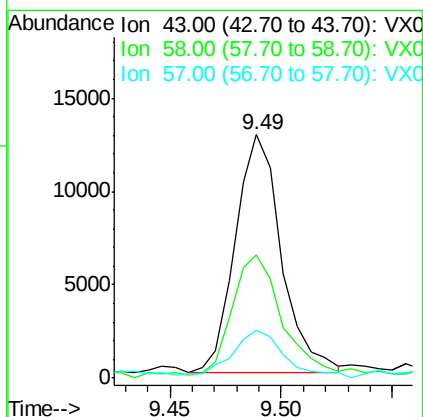
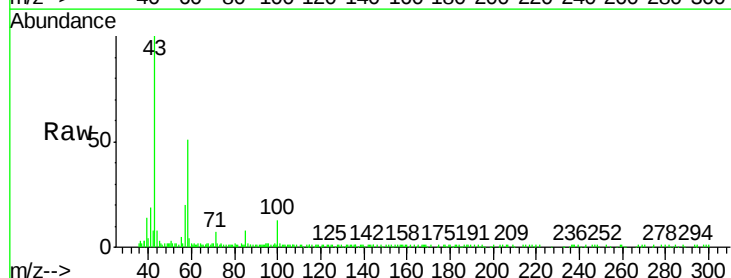
Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW

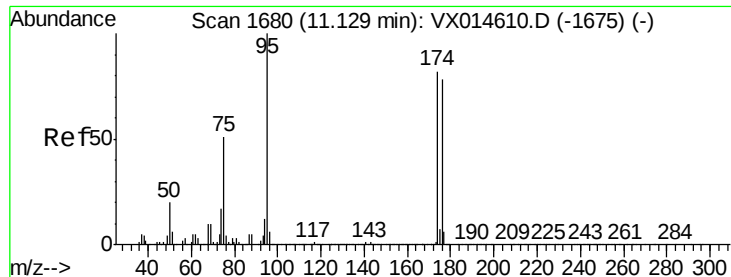
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 14396 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 38.2  | 31.2  | 46.8  |
| 85       | 20.3  | 14.2  | 21.2  |



#59  
2-Hexanone  
Concen: 3.454 ug/l  
RT: 9.49 min Scan# 1411  
Delta R.T. -0.00 min  
Lab File: VX014619.D  
Acq: 15 Jan 2020 15:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 18402 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 55.6  | 43.8  | 65.6  |
| 57       | 18.2  | 15.4  | 23.0  |

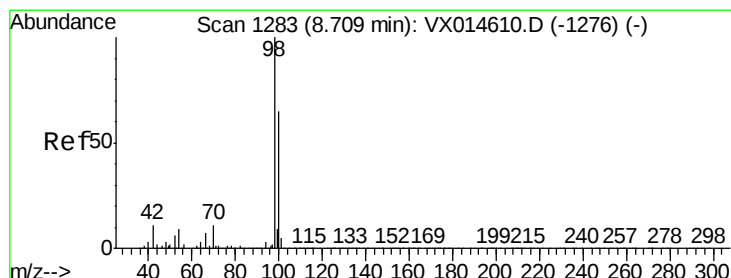
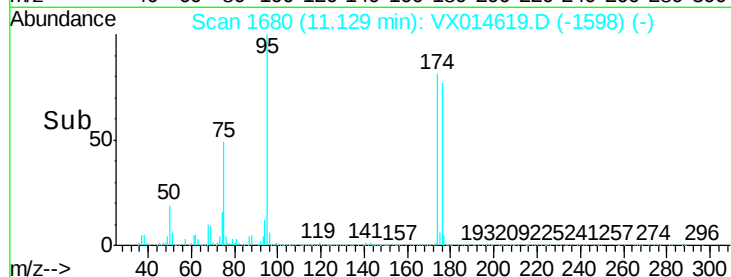
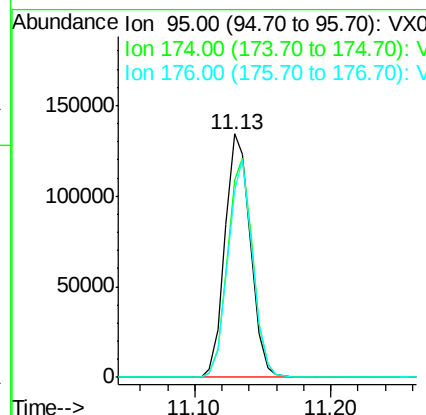
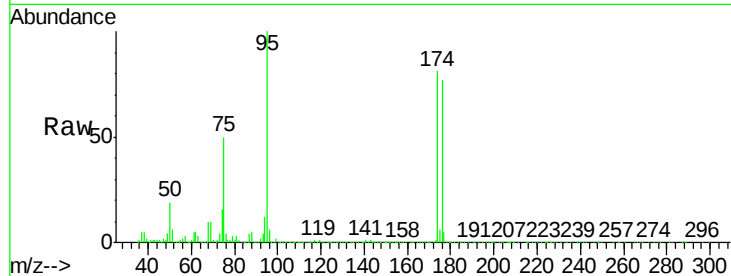




#60  
4-Bromofluorobenzene  
Concen: 29.739 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. -0.00 min  
Lab File: VX014619.D  
Acq: 15 Jan 2020 15:28

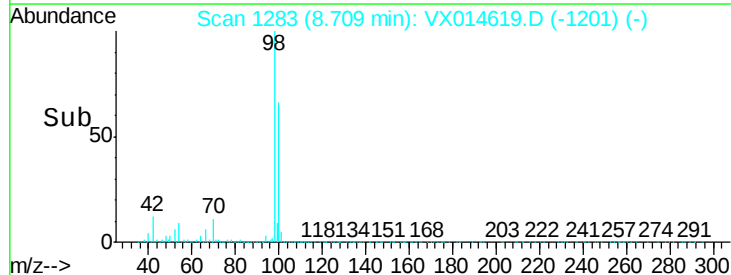
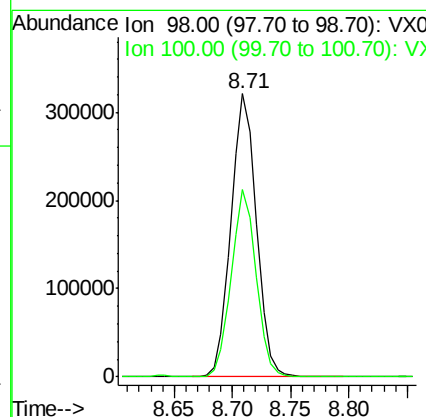
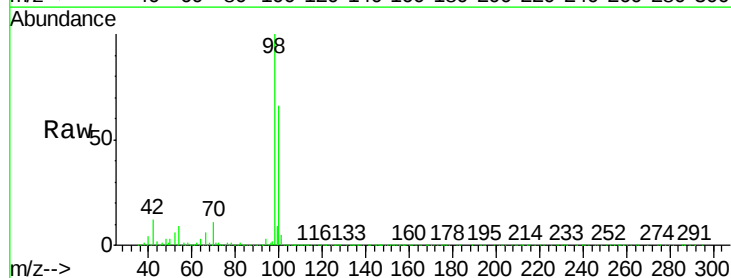
Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW

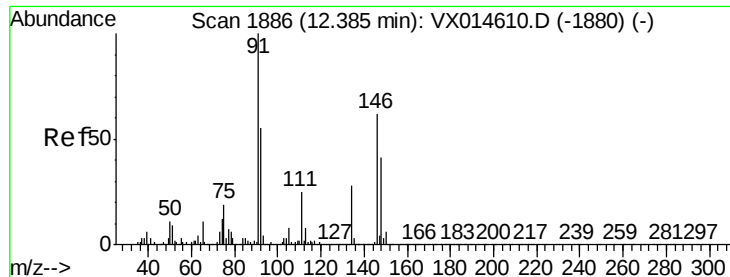
Tot Ion: 95 Resp: 174090  
Ion Ratio Lower Upper  
95 100  
174 88.6 70.2 105.2  
176 86.3 68.3 102.5



#63  
Toluene-d8  
Concen: 29.560 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VX014619.D  
Acq: 15 Jan 2020 15:28

Tgt Ion: 98 Resp: 488452  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.2 78.2





#85

n-Butylbenzene

Concen: 0.214 ug/l

RT: 12.38 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX014619.D

Acq: 15 Jan 2020 15:28

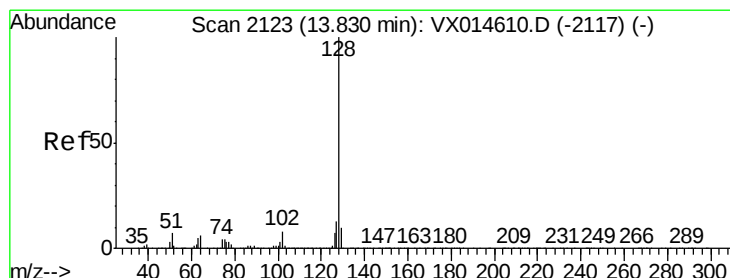
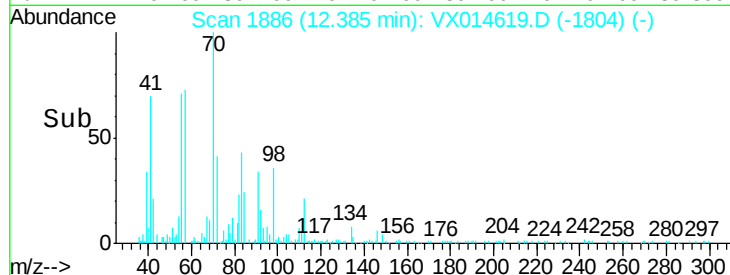
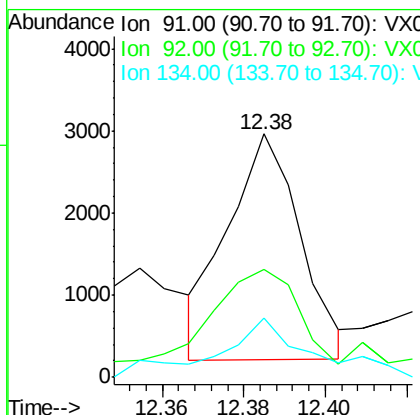
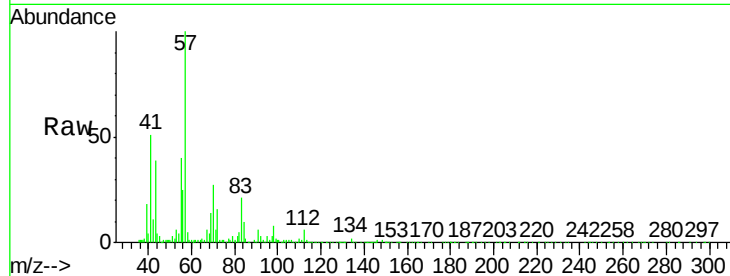
Instrument :

MSVOA\_X

ClientSampleId :

EFF-WW

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 91    | Resp: | 3402  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 47.8  | 0.0   | 109.0 |
| 134      | 19.2  | 0.0   | 54.0  |



#91

Naphthalene

Concen: 0.234 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX014619.D

Acq: 15 Jan 2020 15:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 4500  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 20.4  | 10.4  | 15.6# |
| 129      | 12.6  | 8.9   | 13.3  |

