

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021619\  
 Data File : VX007572.D  
 Acq On : 15 Feb 2019 17:04  
 Operator : JC/SP  
 Sample : K1520-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EFF-WW

Quant Time: Feb 16 05:12:50 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  | 77205    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.86  | 114  | 407512   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 367977   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.07   | 65    | 154064   | 30.85    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 102.83% |
| 60) 4-Bromofluorobenzene  | 11.13  | 95    | 164830   | 29.19    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 97.30%  |
| 63) Toluene-d8            | 8.71   | 98    | 473194   | 28.45    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 94.83%  |

## Target Compounds

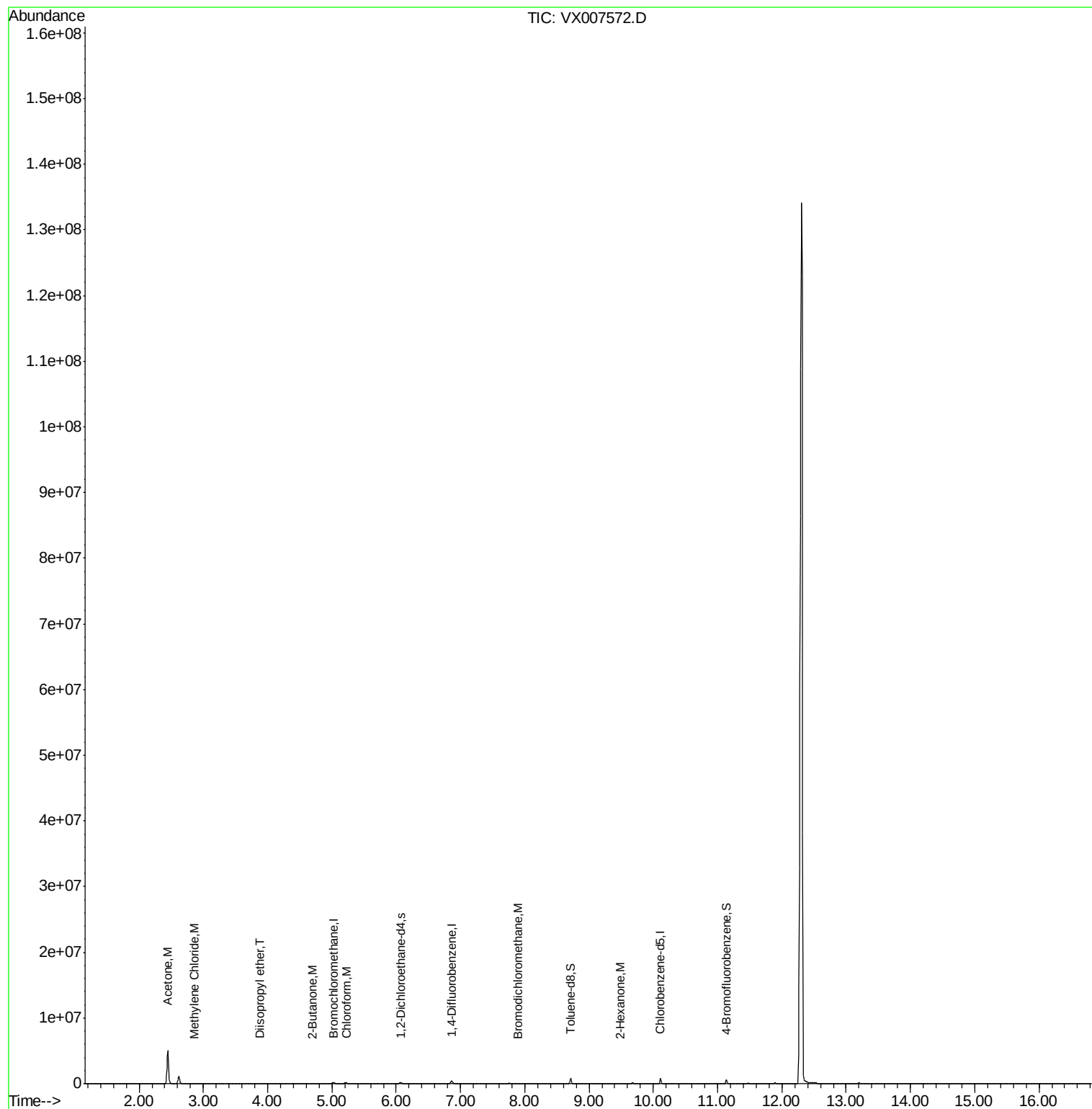
|                          |      |    |         |          | Ovalue    |
|--------------------------|------|----|---------|----------|-----------|
| 15) Acetone              | 2.45 | 58 | 1675857 | 2291.182 | ug/l 97   |
| 18) Methylene Chloride   | 2.86 | 84 | 5977    | 1.253    | ug/l # 94 |
| 20) Diisopropyl ether    | 3.87 | 45 | 41482   | 3.020    | ug/l # 86 |
| 25) Chloroform           | 5.22 | 83 | 153128  | 18.831   | ug/l 97   |
| 30) 2-Butanone           | 4.70 | 43 | 26203   | 7.789    | ug/l 99   |
| 41) Bromodichloromethane | 7.90 | 83 | 7796    | 1.365    | ug/l 97   |
| 59) 2-Hexanone           | 9.50 | 43 | 3416    | 0.679    | ug/l # 77 |

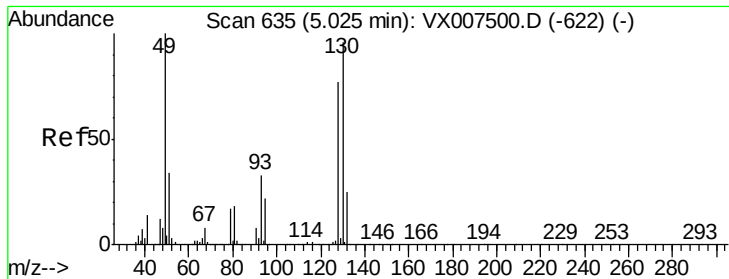
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX021619\  
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Sample : K1520-02  
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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW

Quant Time: Feb 16 05:12:50 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: VX007572.D

Acq: 15 Feb 2019 17:04

Instrument :

MSVOA\_X

ClientSampleId :

EFF-WW

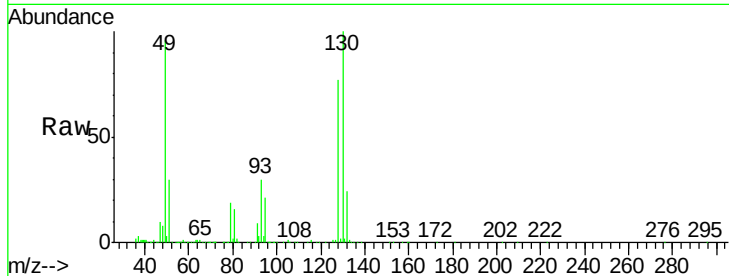
Tot Ion:128 Resp: 77205

Ion Ratio Lower Upper

128 100

49 136.7 0.0 350.8

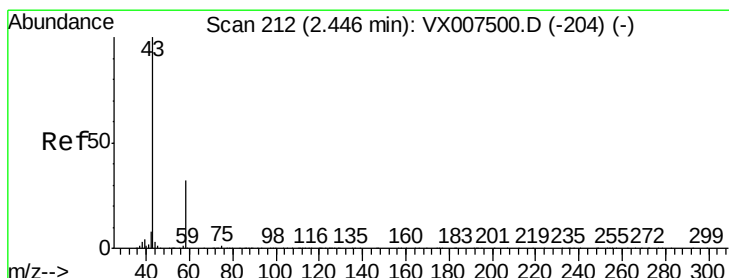
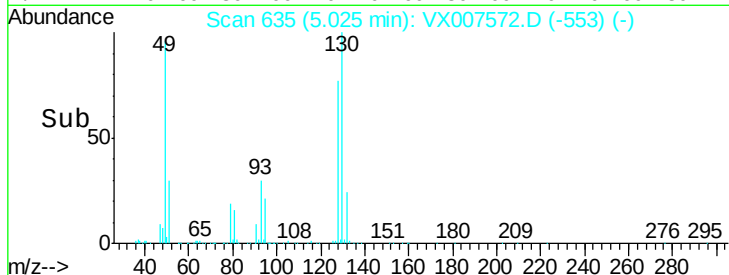
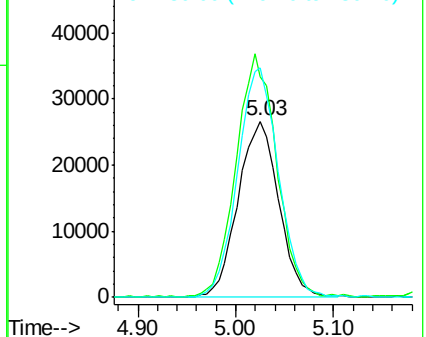
130 130.8 0.0 325.8



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: 2291.182 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007572.D

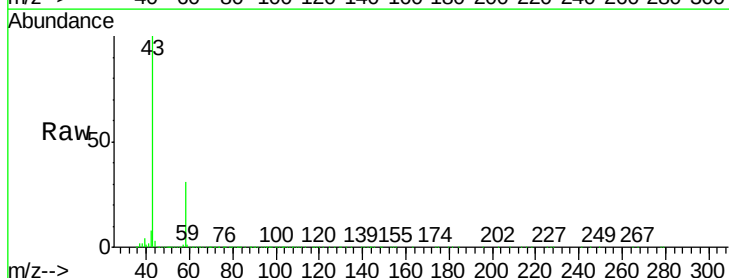
Acq: 15 Feb 2019 17:04

Tgt Ion: 58 Resp: 1675857

Ion Ratio Lower Upper

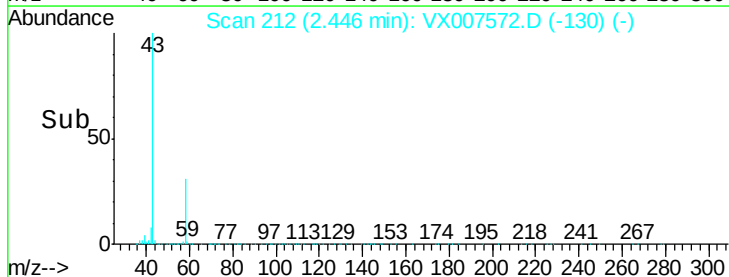
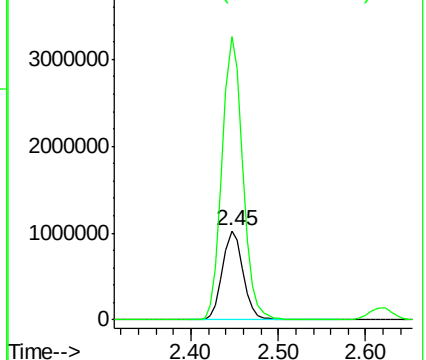
58 100

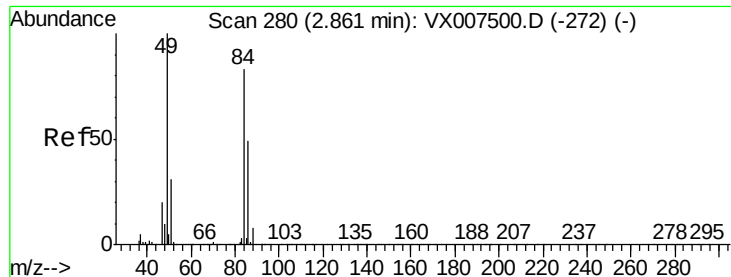
43 317.9 249.8 374.6



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

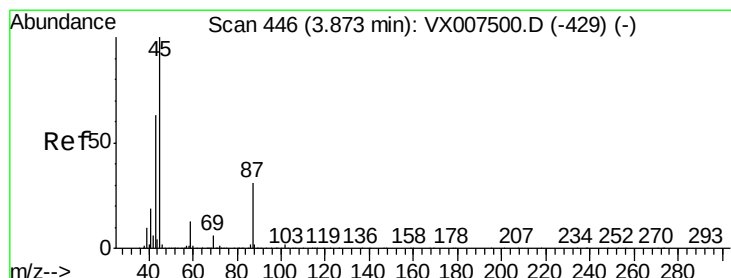
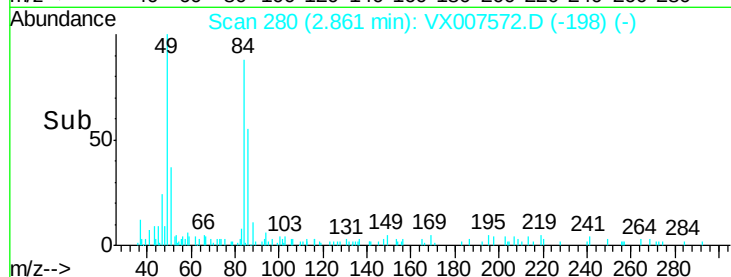
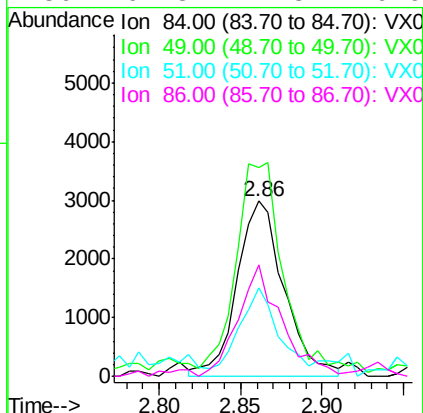
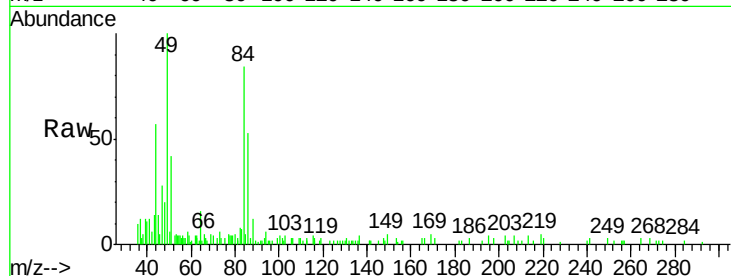




#18  
Methylene Chloride  
Concen: 1.253 ug/l  
RT: 2.86 min Scan# 280  
Delta R.T. 0.00 min  
Lab File: VX007572.D  
Acq: 15 Feb 2019 17:04

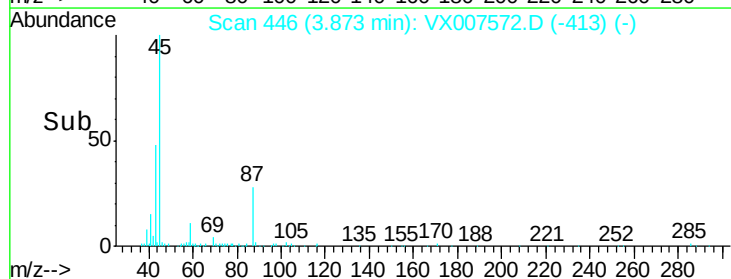
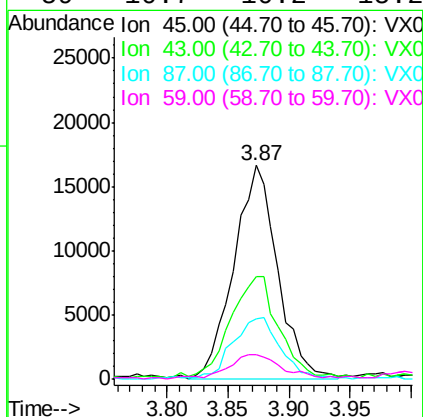
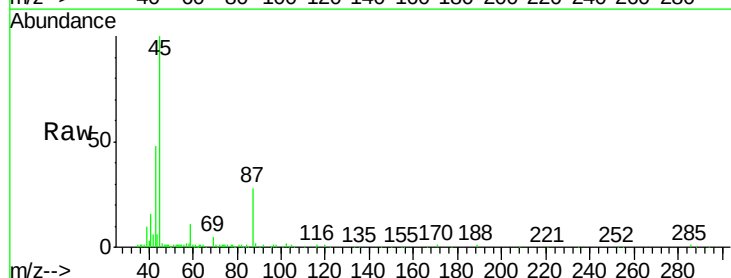
Instrument :  
MSVOA\_X  
ClientSampled :  
EFF-WW

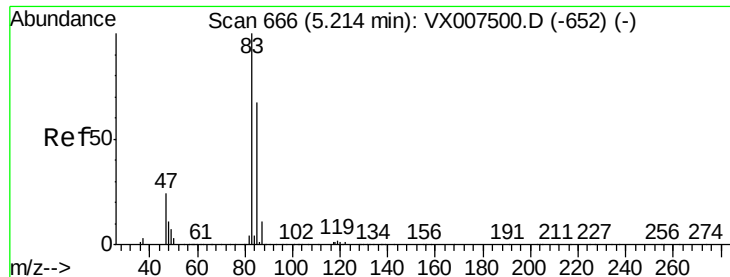
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 5977  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 116.5 | 96.1  | 144.1 |
| 51       | 44.3  | 29.1  | 43.7# |
| 86       | 64.3  | 47.3  | 70.9  |



#20  
Diisopropyl ether  
Concen: 3.020 ug/l  
RT: 3.87 min Scan# 446  
Delta R.T. 0.00 min  
Lab File: VX007572.D  
Acq: 15 Feb 2019 17:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 41482 |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 47.3  | 50.6  | 76.0# |
| 87       | 27.6  | 24.5  | 36.7  |
| 59       | 10.7  | 10.2  | 15.2  |





#25

Chloroform

Concen: 18.831 ug/l

RT: 5.22 min Scan# 667

Delta R.T. 0.01 min

Lab File: VX007572.D

Acq: 15 Feb 2019 17:04

Instrument :

MSVOA\_X

ClientSampled :

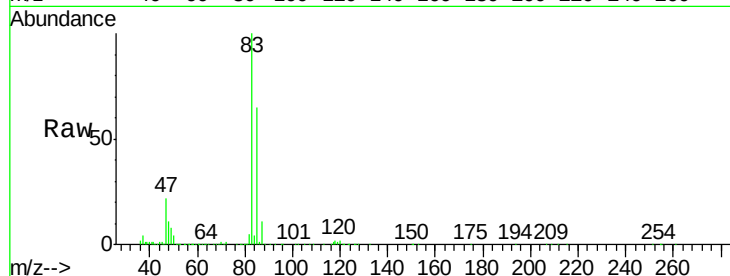
EFF-WW

Tot Ion: 83 Resp: 153128

Ion Ratio Lower Upper

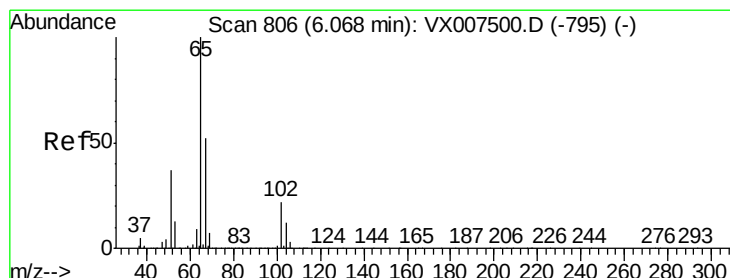
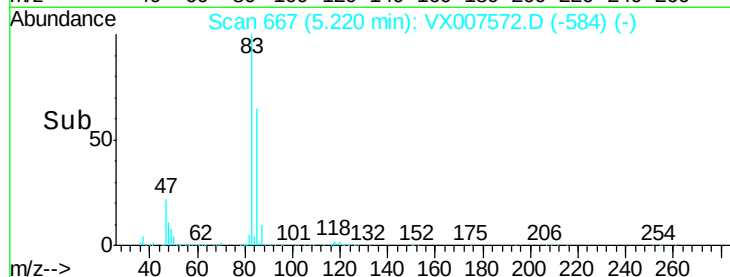
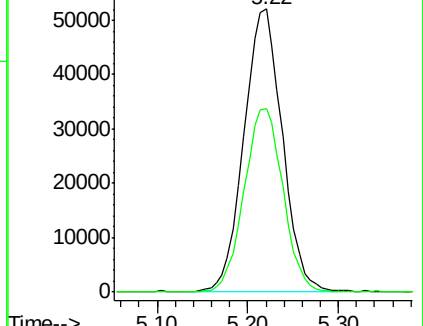
83 100

85 64.6 53.8 80.6



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 30.849 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX007572.D

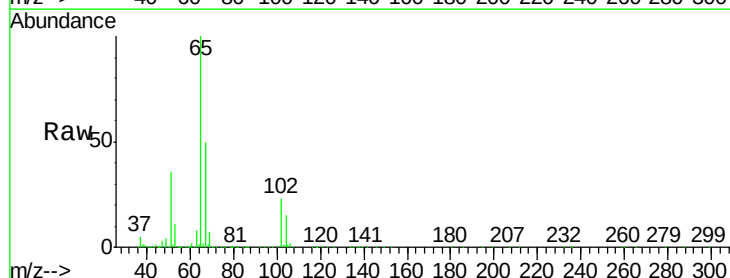
Acq: 15 Feb 2019 17:04

Tgt Ion: 65 Resp: 154064

Ion Ratio Lower Upper

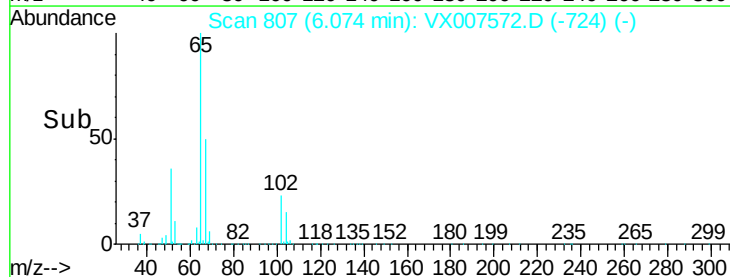
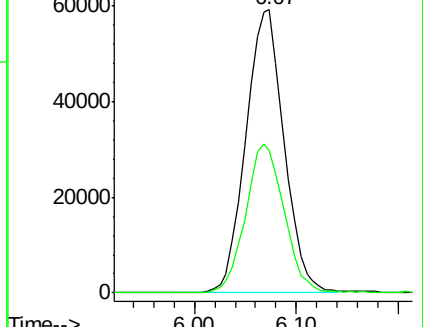
65 100

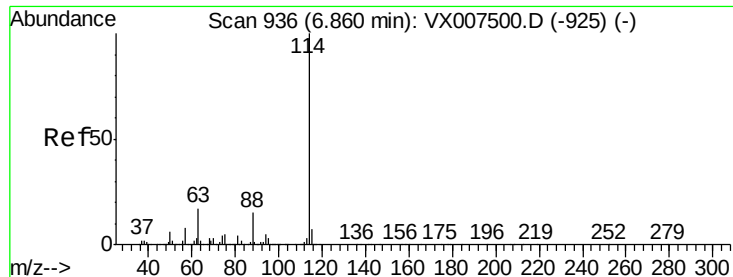
67 52.8 42.9 64.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

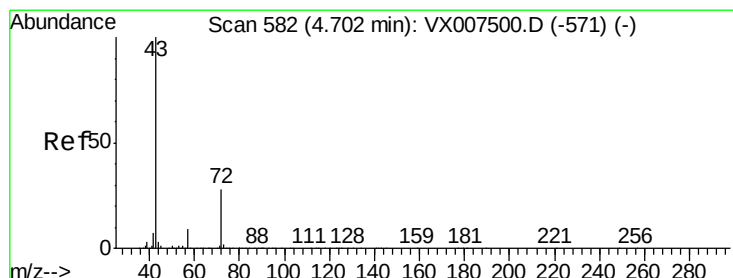
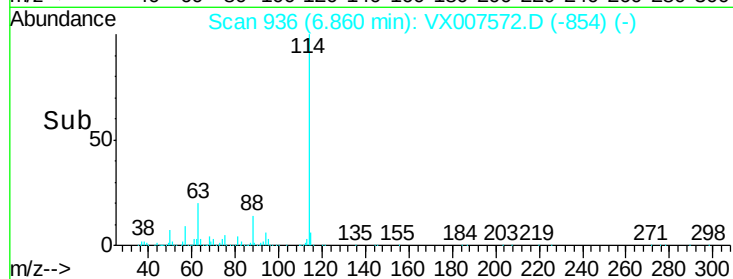
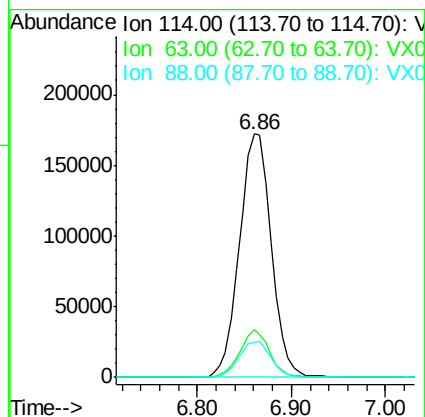
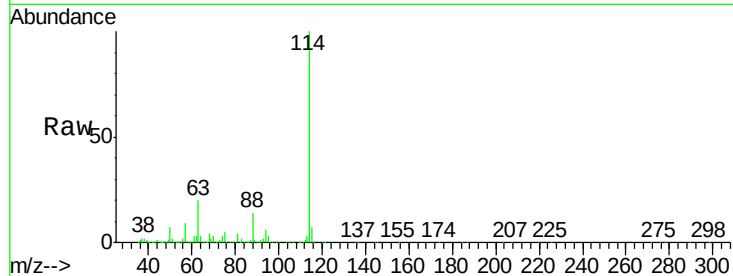




#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX007572.D  
 Acq: 15 Feb 2019 17:04

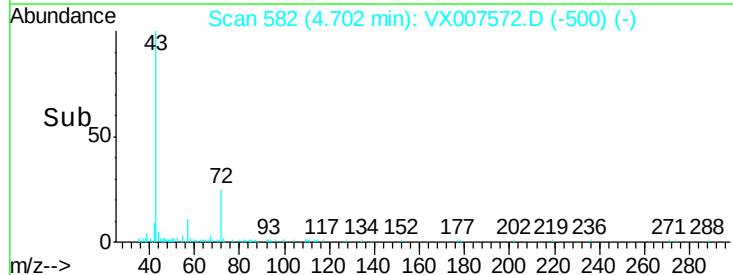
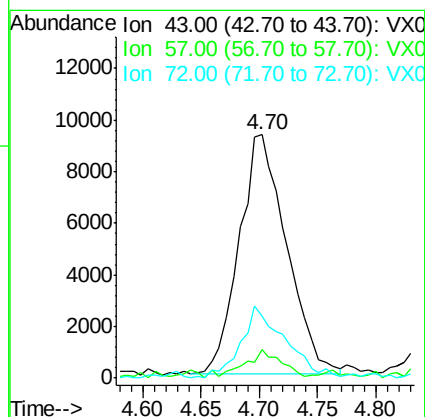
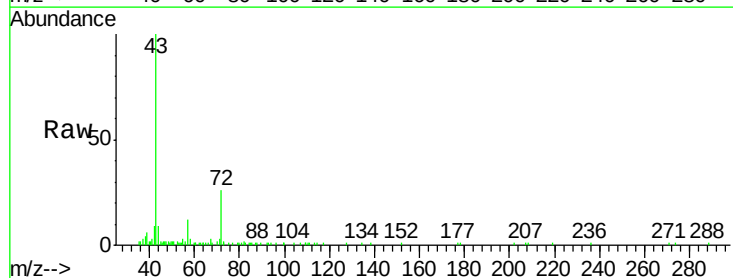
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EFF-WW

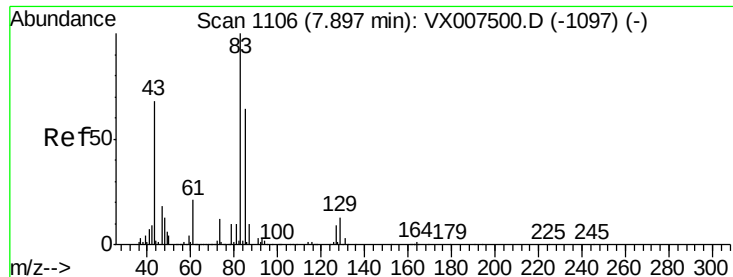
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 114   | Resp: | 407512 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 18.1  | 14.2  | 21.4   |
| 88       | 14.8  | 11.9  | 17.9   |



#30  
 2-Butanone  
 Concen: 7.789 ug/l  
 RT: 4.70 min Scan# 582  
 Delta R.T. 0.00 min  
 Lab File: VX007572.D  
 Acq: 15 Feb 2019 17:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 26203 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 57       | 8.1   | 7.0   | 10.6  |
| 72       | 27.2  | 21.5  | 32.3  |





#41

Bromodichloromethane

Concen: 1.365 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VX007572.D

Acq: 15 Feb 2019 17:04

Instrument :

MSVOA\_X

ClientSampleId :

EFF-WW

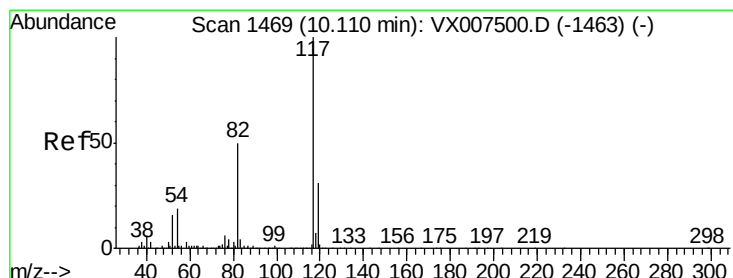
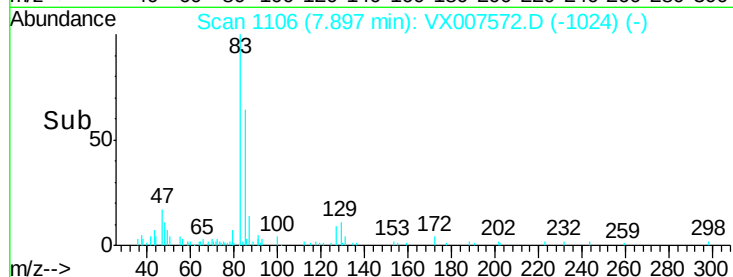
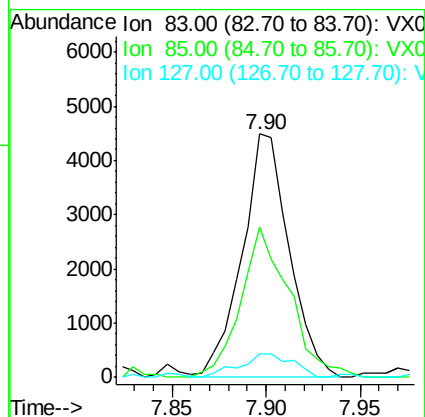
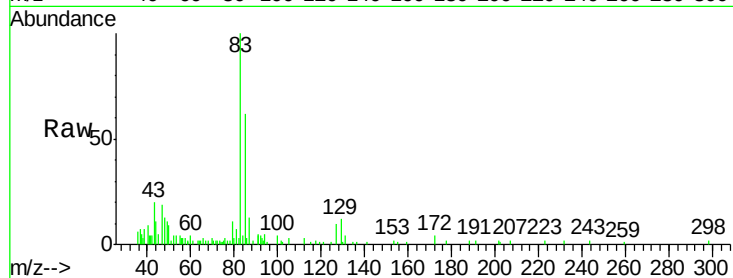
Tot Ion: 83 Resp: 7796

Ion Ratio Lower Upper

83 100

85 61.8 51.1 76.7

127 9.6 7.2 10.8



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007572.D

Acq: 15 Feb 2019 17:04

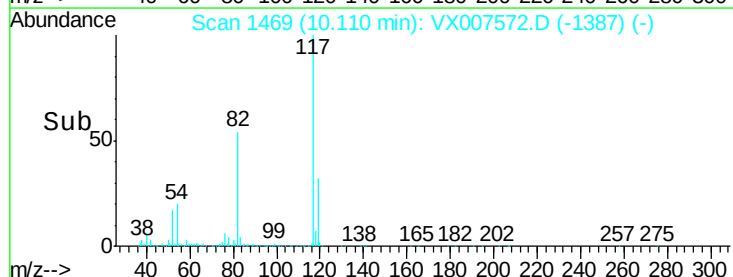
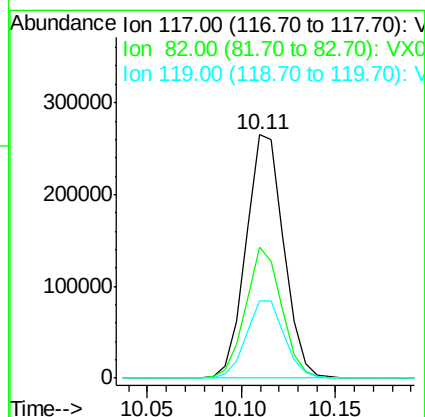
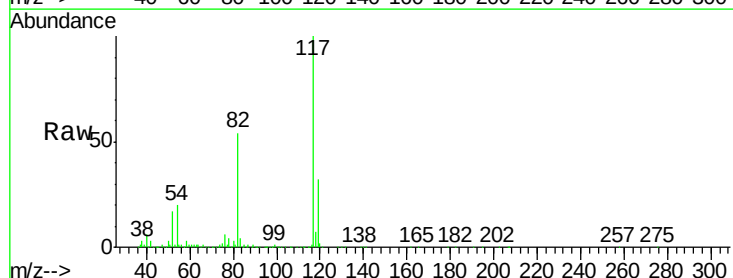
Tgt Ion: 117 Resp: 367977

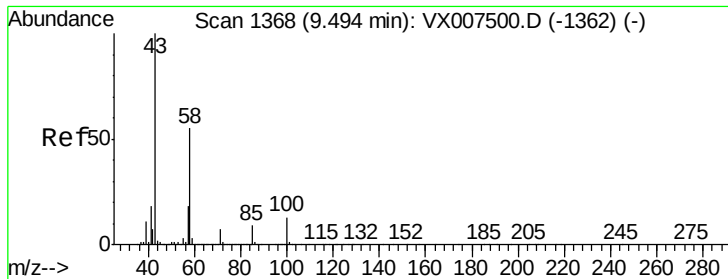
Ion Ratio Lower Upper

117 100

82 51.3 40.4 60.6

119 32.0 25.8 38.6

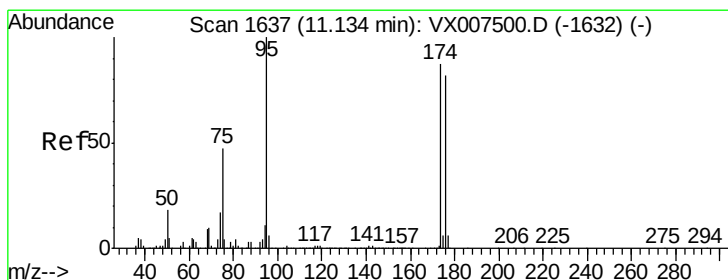
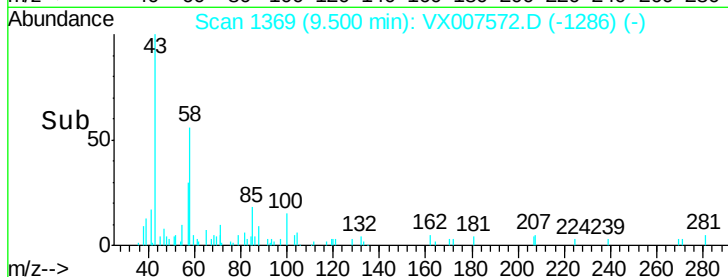
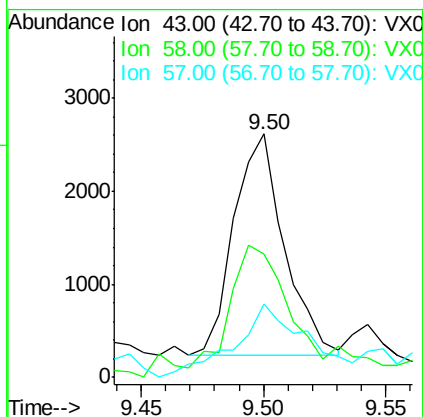
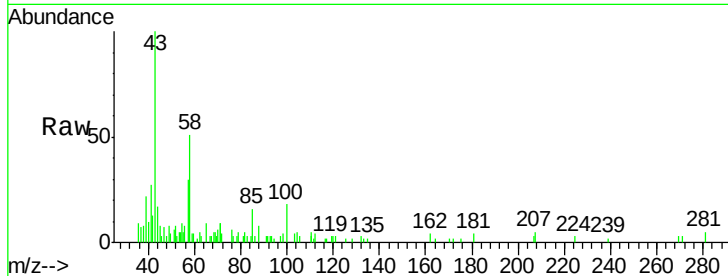




#59  
2-Hexanone  
Concen: 0.679 ug/l  
RT: 9.50 min Scan# 1369  
Delta R.T. 0.01 min  
Lab File: VX007572.D  
Acq: 15 Feb 2019 17:04

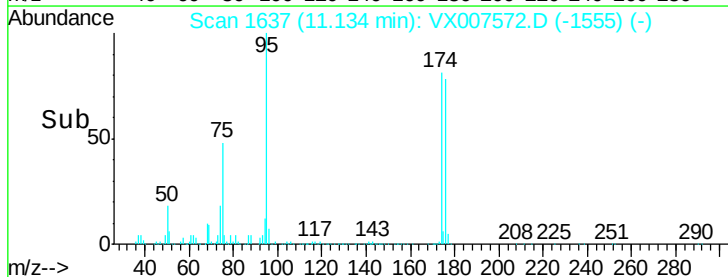
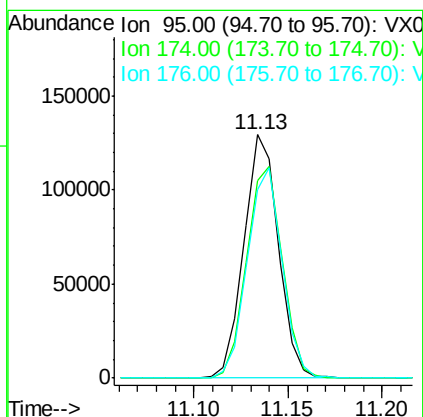
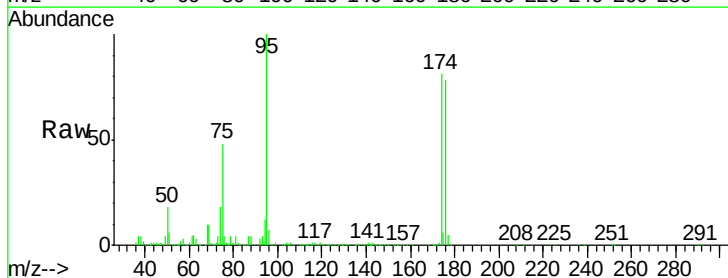
Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW

Tot Ion: 43 Resp: 3416  
Ion Ratio Lower Upper  
43 100  
58 61.8 43.9 65.9  
57 47.4 14.9 22.3#

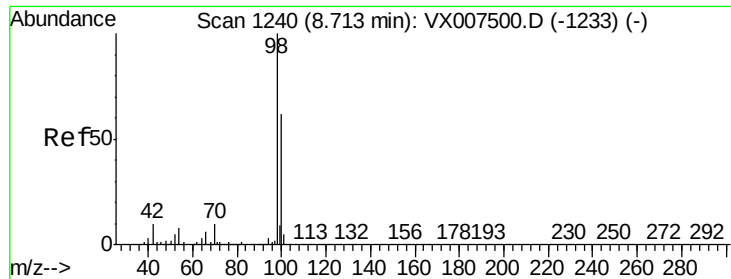


#60  
4-Bromofluorobenzene  
Concen: 29.185 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX007572.D  
Acq: 15 Feb 2019 17:04

Tgt Ion: 95 Resp: 164830  
Ion Ratio Lower Upper  
95 100  
174 89.8 74.9 112.3  
176 86.9 70.7 106.1







#63

Toluene-d8

Concen: 28.451 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007572.D

Acq: 15 Feb 2019 17:04

Instrument :

MSVOA\_X

ClientSampleId :

EFF-WW

Tot Ion: 98 Resp: 473194

Ion Ratio Lower Upper

98 100

100 64.0 50.9 76.3

