

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX011719\  
 Data File : VX007097.D  
 Acq On : 17 Jan 2019 18:56  
 Operator : JC/SP  
 Sample : K1157-16  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WC-01-011519

Quant Time: Jan 18 05:03:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 567920   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 872223   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 819043   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 391069   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 301861   | 50.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.72% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 262268   | 46.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.90%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1058249  | 51.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.52% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 367523   | 51.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.12% |          |

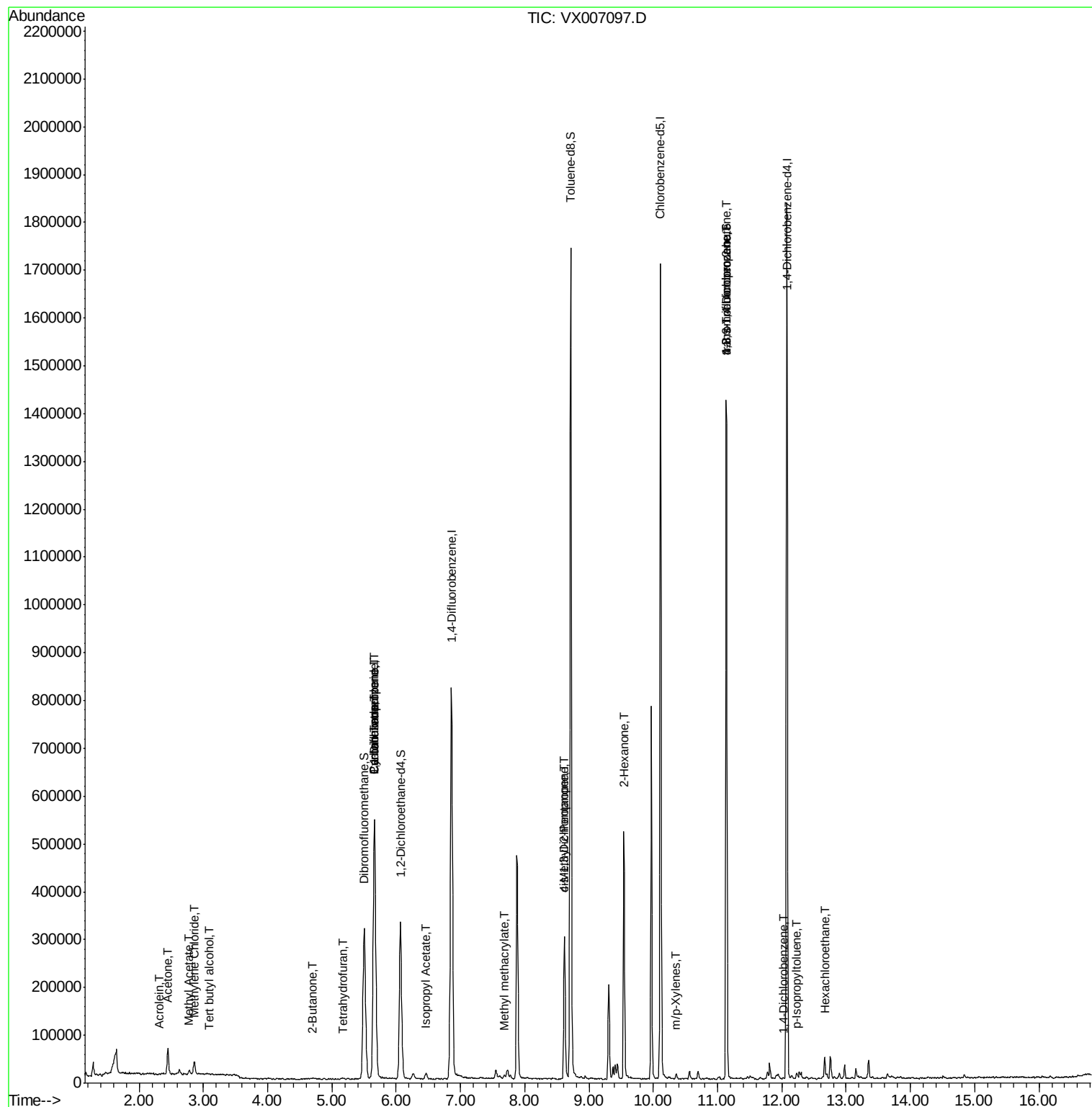
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 3.09  | 59   | 772      | 0.551     | ug/l # | 89     |
| 13) Acrolein                   | 2.32  | 56   | 321      | 3.609     | ug/l # | 76     |
| 16) Acetone                    | 2.45  | 43   | 60646    | 20.669    | ug/l   | 98     |
| 18) Methyl Acetate             | 2.78  | 43   | 10468    | 1.232     | ug/l   | 96     |
| 20) Methylene Chloride         | 2.85  | 84   | 13218    | 1.823     | ug/l   | 99     |
| 25) 2-Butanone                 | 4.70  | 43   | 4605     | 1.097     | ug/l   | 90     |
| 29) Tetrahydrofuran            | 5.17  | 42   | 1816     | 0.666     | ug/l # | 74     |
| 31) Cyclohexane                | 5.66  | 56   | 10593    | 1.266     | ug/l # | 6      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 35817    | 4.723     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 51194    | 6.710     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 6.46  | 43   | 14524    | 1.133     | ug/l # | 91     |
| 48) Methyl methacrylate        | 7.69  | 41   | 8242     | 1.252     | ug/l # | 20     |
| 49) 1,4-Dioxane                | 7.74  | 88   | 79       | Below Cal | #      | 1      |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 98222    | 11.918    | ug/l # | 51     |
| 54) cis-1,3-Dichloropropene    | 8.62  | 75   | 48642    | 5.708     | ug/l # | 64     |
| 59) 2-Hexanone                 | 9.54  | 43   | 57140    | 9.098     | ug/l # | 55     |
| 68) m/p-Xylenes                | 10.36 | 106  | 2578     | 0.222     | ug/l   | 96     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 175309   | 22.121    | ug/l # | 40     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 175309   | 65.491    | ug/l # | 10     |
| 86) p-Isopropyltoluene         | 12.24 | 119  | 5077     | 0.207     | ug/l   | 85     |
| 88) 1,4-Dichlorobenzene        | 12.03 | 146  | 926      | 0.216     | ug/l   | 75     |
| 90) Hexachloroethane           | 12.66 | 117  | 2341     | 3.471     | ug/l # | 10     |

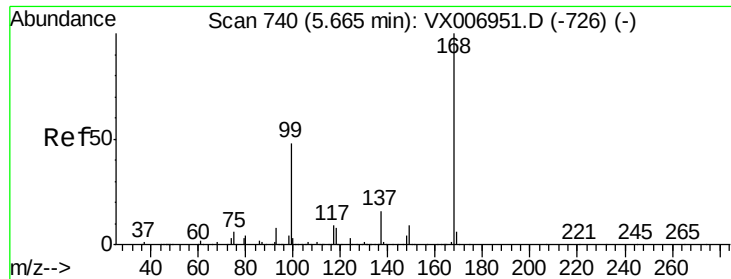
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX011719\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 08 14:06:59 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007097.D

Acq: 17 Jan 2019 18:56

Instrument :

MSVOA\_X

ClientSampleId :

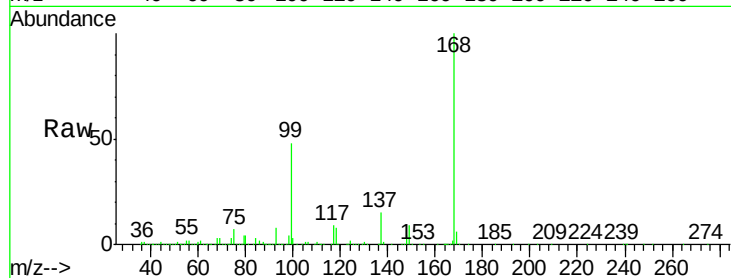
WC-01-011519

Tot Ion:168 Resp: 567920

Ion Ratio Lower Upper

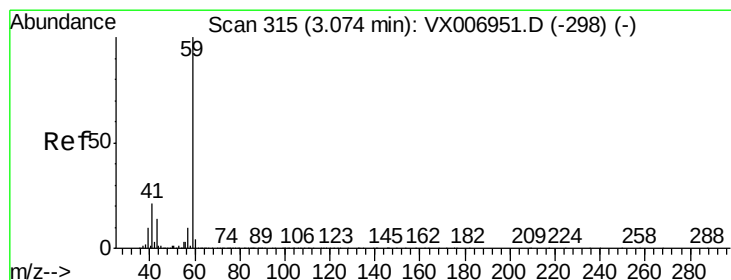
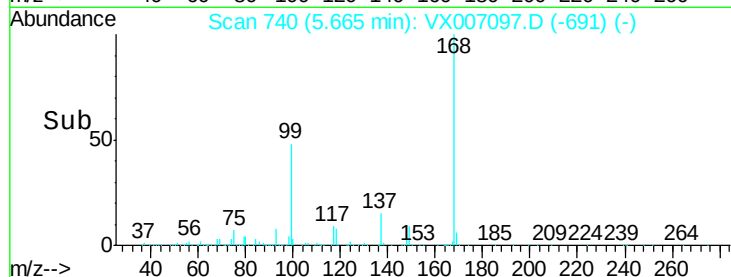
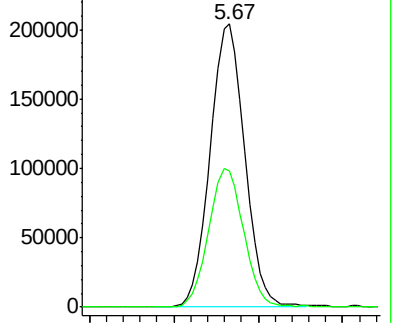
168 100

99 48.1 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 0.551 ug/l

RT: 3.09 min Scan# 318

Delta R.T. 0.02 min

Lab File: VX007097.D

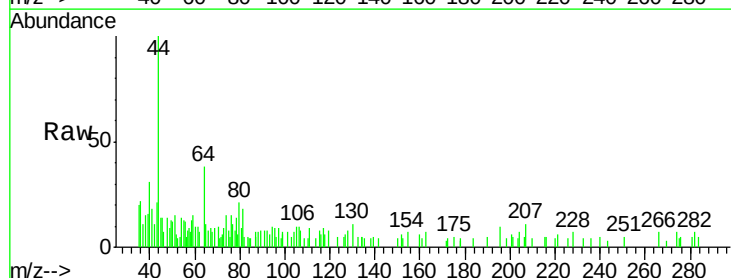
Acq: 17 Jan 2019 18:56

Tgt Ion: 59 Resp: 772

Ion Ratio Lower Upper

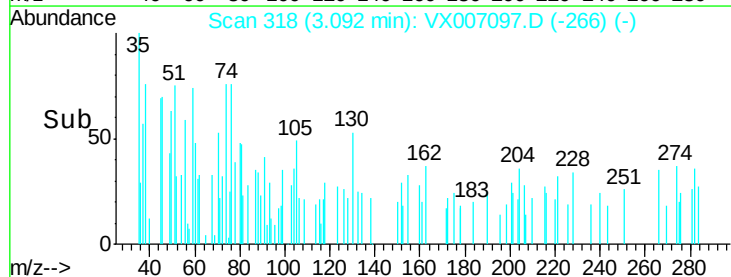
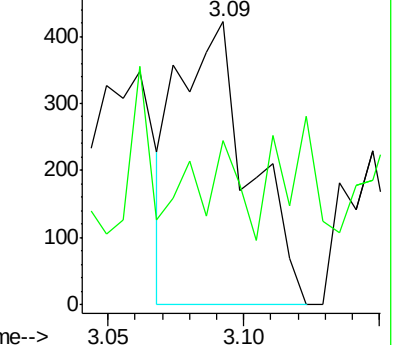
59 100

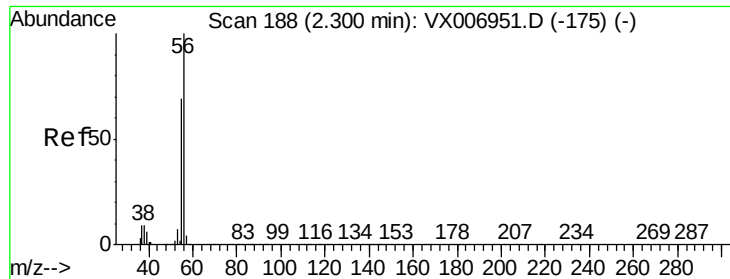
57 6.3 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

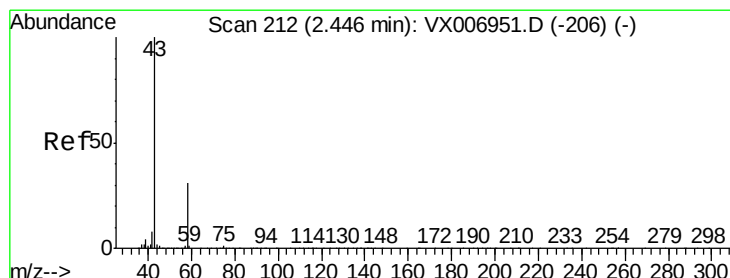
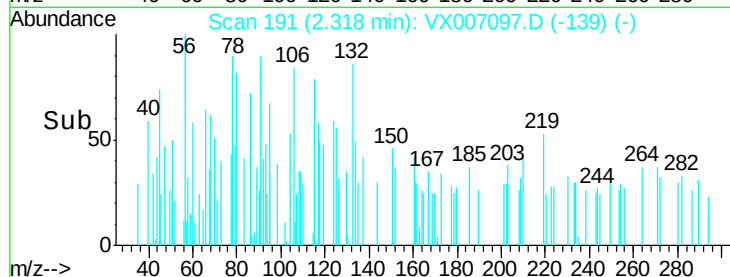
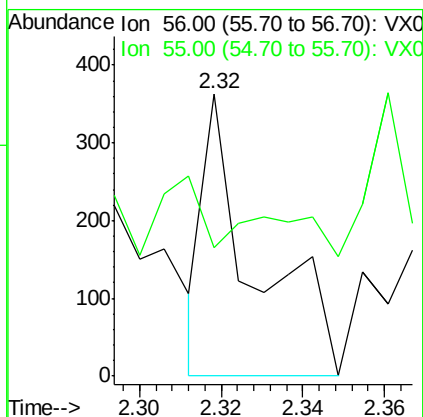
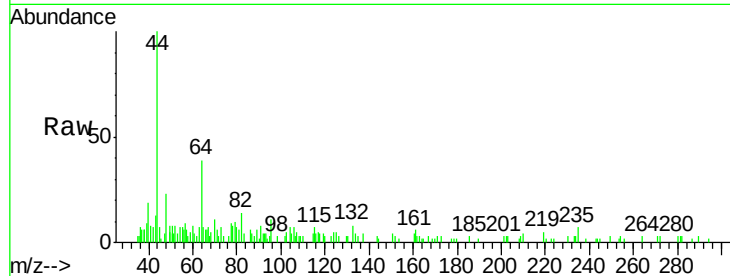




#13  
Acrolein  
Concen: 3.609 ug/l  
RT: 2.32 min Scan# 191  
Delta R.T. 0.02 min  
Lab File: VX007097.D  
Acq: 17 Jan 2019 18:56

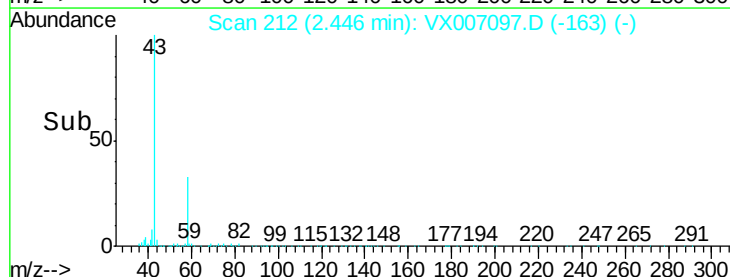
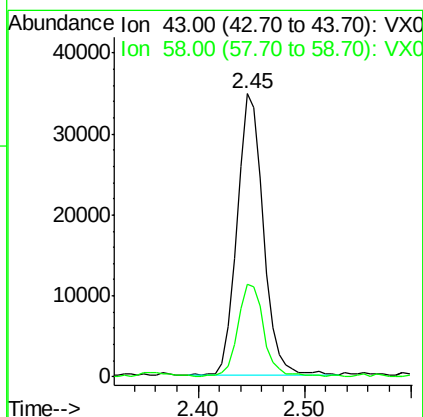
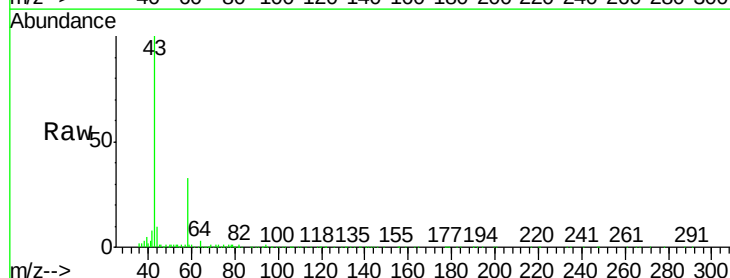
Instrument :  
MSVOA\_X  
ClientSampleId :  
WC-01-011519

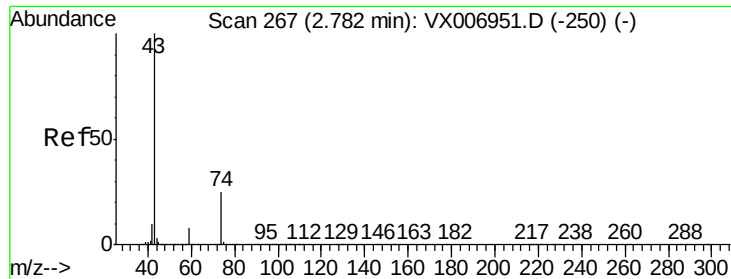
Tot Ion: 56 Resp: 321  
Ion Ratio Lower Upper  
56 100  
55 52.6 58.2 87.4#



#16  
Acetone  
Concen: 20.669 ug/l  
RT: 2.45 min Scan# 212  
Delta R.T. -0.00 min  
Lab File: VX007097.D  
Acq: 17 Jan 2019 18:56

Tgt Ion: 43 Resp: 60646  
Ion Ratio Lower Upper  
43 100  
58 32.4 25.0 37.6

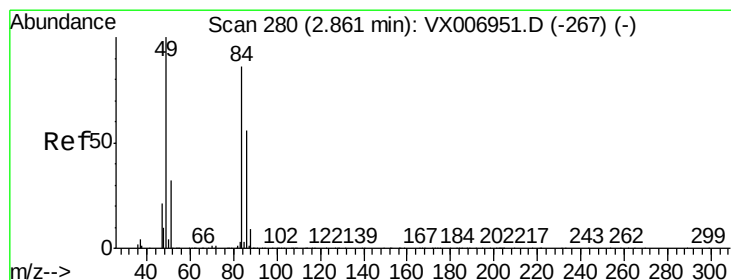
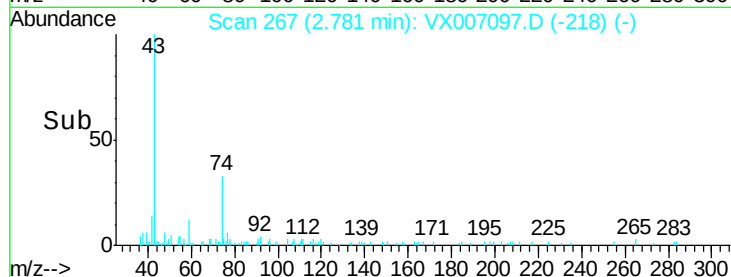
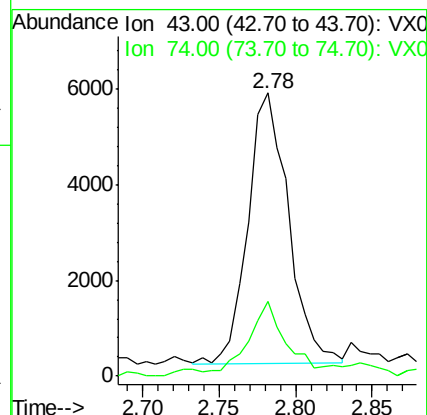
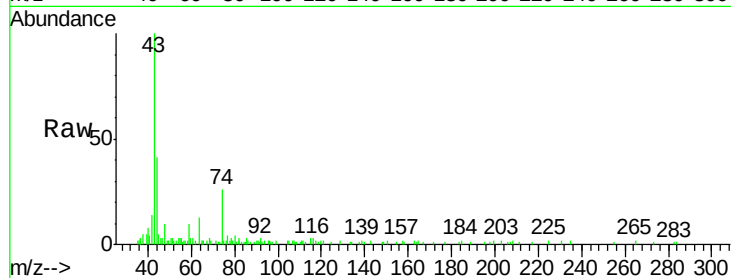




#18  
Methyl Acetate  
Concen: 1.232 ug/l  
RT: 2.78 min Scan# 267  
Delta R.T. -0.00 min  
Lab File: VX007097.D  
Acq: 17 Jan 2019 18:56

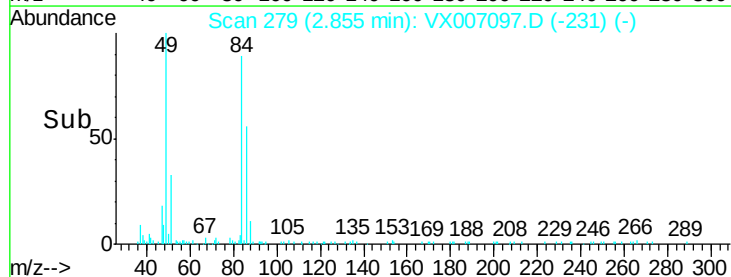
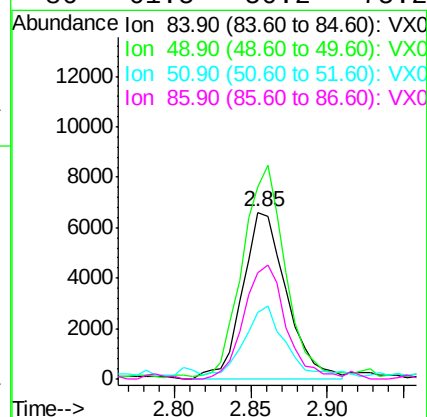
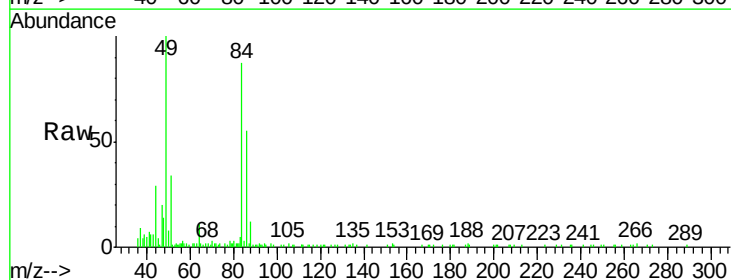
Instrument :  
MSVOA\_X  
ClientSampleId :  
WC-01-011519

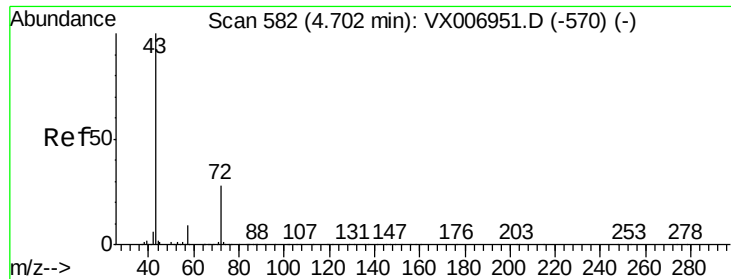
Tot Ion: 43 Resp: 10468  
Ion Ratio Lower Upper  
43 100  
74 21.5 18.6 28.0



#20  
Methylene Chloride  
Concen: 1.823 ug/l  
RT: 2.85 min Scan# 279  
Delta R.T. -0.01 min  
Lab File: VX007097.D  
Acq: 17 Jan 2019 18:56

Tgt Ion: 84 Resp: 13218  
Ion Ratio Lower Upper  
84 100  
49 113.8 91.8 137.6  
51 35.1 28.5 42.7  
86 61.5 50.2 75.2





#25

2-Butanone

Concen: 1.097 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX007097.D

Acq: 17 Jan 2019 18:56

Instrument :

MSVOA\_X

ClientSampled :

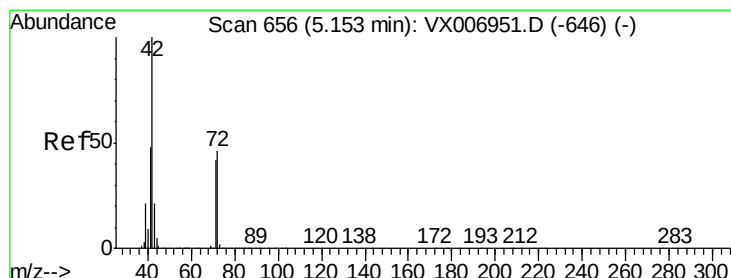
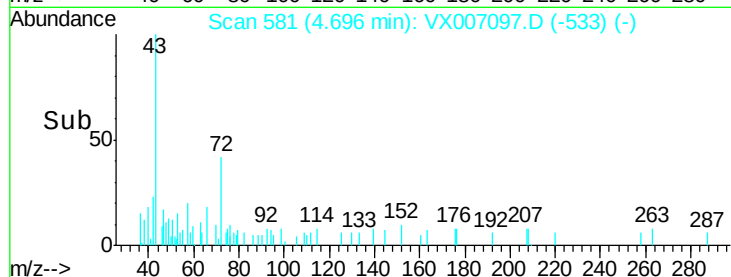
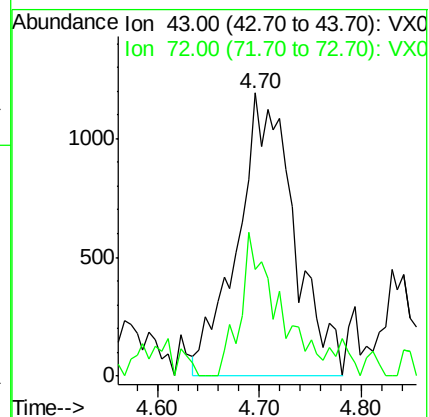
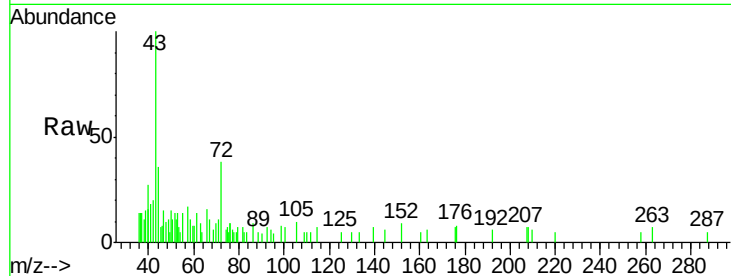
WC-01-011519

Tot Ion: 43 Resp: 4605

Ion Ratio Lower Upper

43 100

72 33.2 22.4 33.6



#29

Tetrahydrofuran

Concen: 0.666 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX007097.D

Acq: 17 Jan 2019 18:56

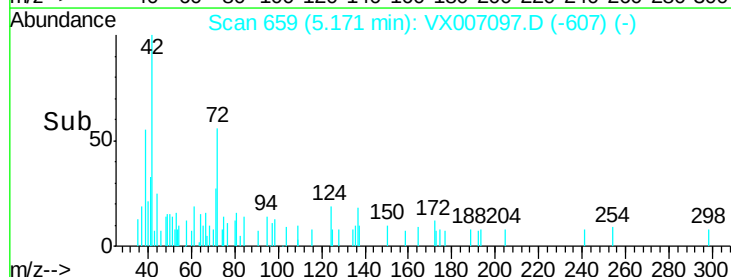
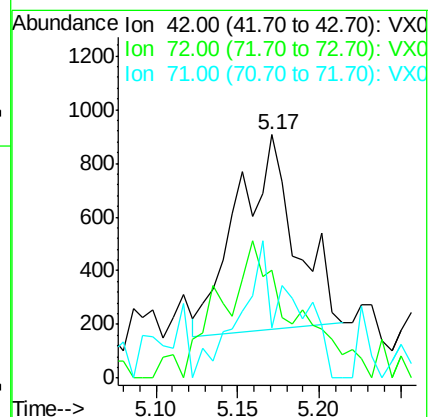
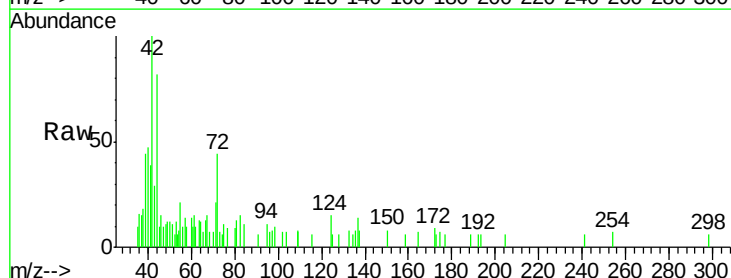
Tgt Ion: 42 Resp: 1816

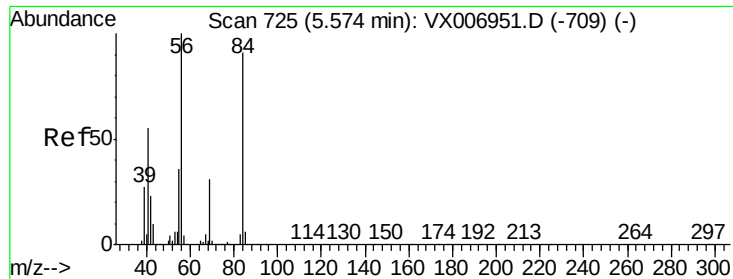
Ion Ratio Lower Upper

42 100

72 69.0 38.9 58.3#

71 59.6 36.2 54.4#

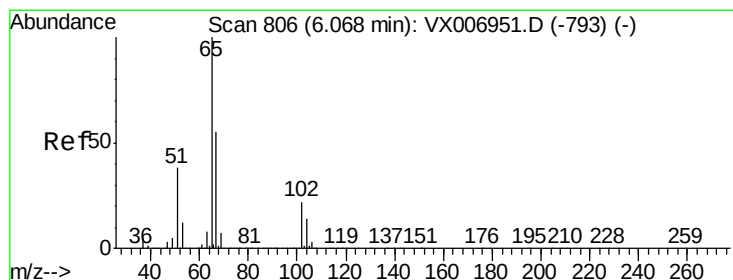
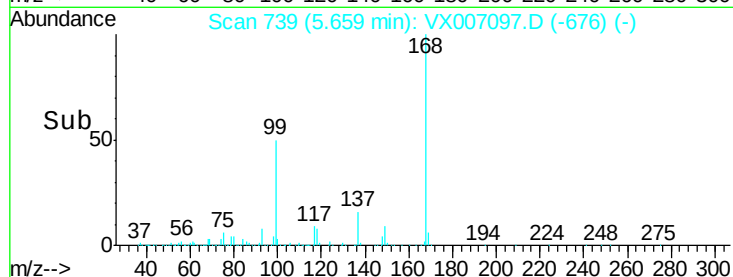
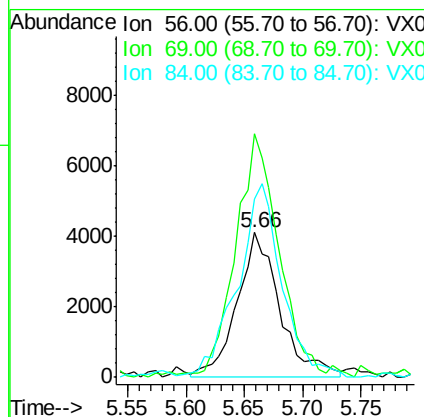
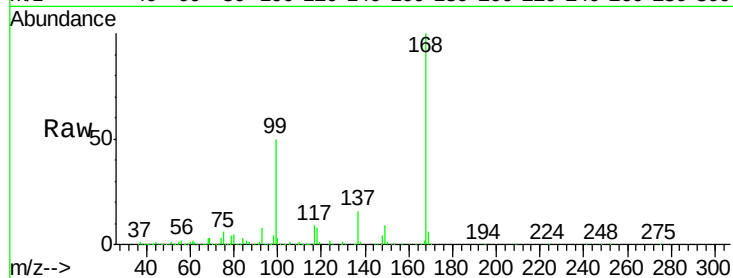




#31  
Cyclohexane  
Concen: 1.266 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. 0.09 min  
Lab File: VX007097.D  
Acq: 17 Jan 2019 18:56

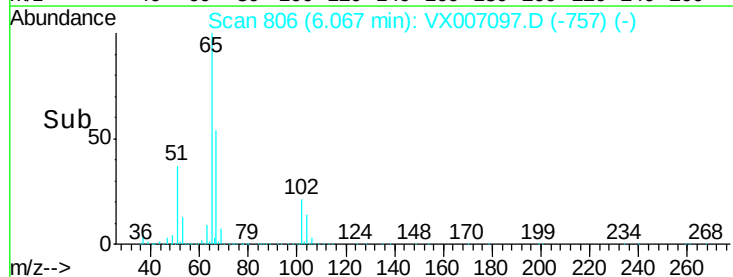
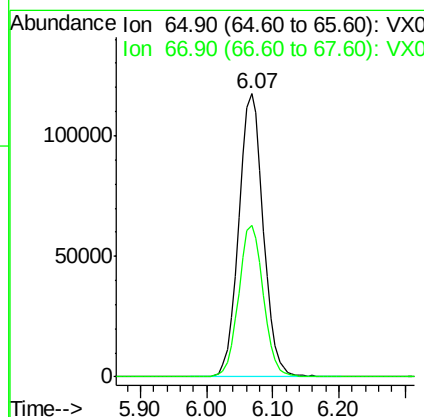
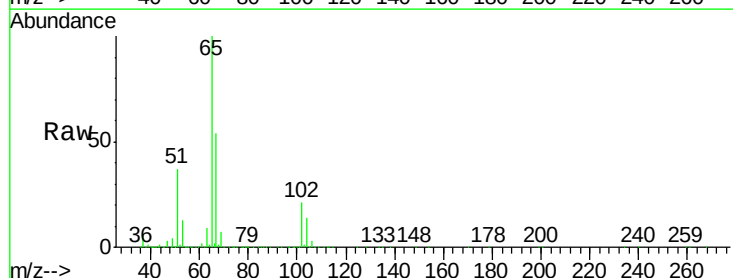
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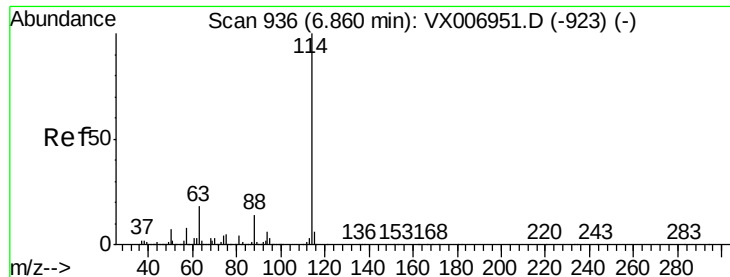
Tot Ion: 56 Resp: 10593  
Ion Ratio Lower Upper  
56 100  
69 168.9 24.4 36.6#  
84 122.5 70.0 105.0#



#33  
1,2-Dichloroethane-d4  
Concen: 50.859 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. -0.00 min  
Lab File: VX007097.D  
Acq: 17 Jan 2019 18:56

Tgt Ion: 65 Resp: 301861  
Ion Ratio Lower Upper  
65 100  
67 53.8 0.0 105.0

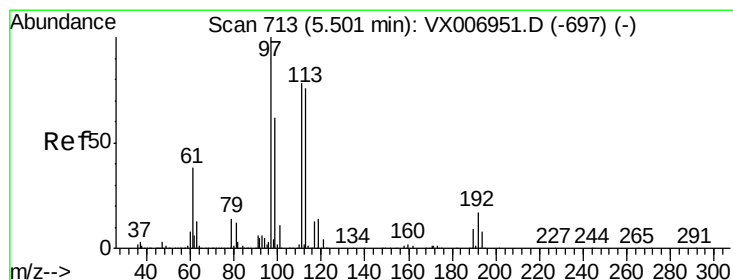
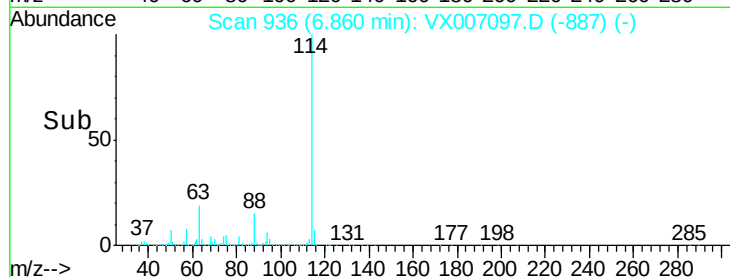
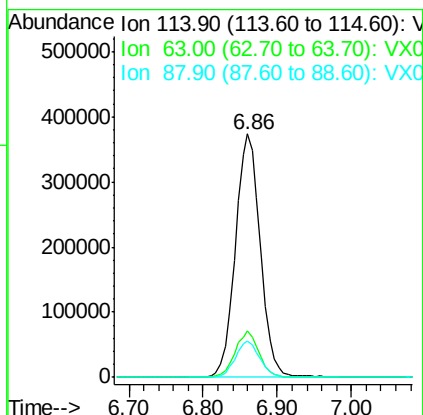
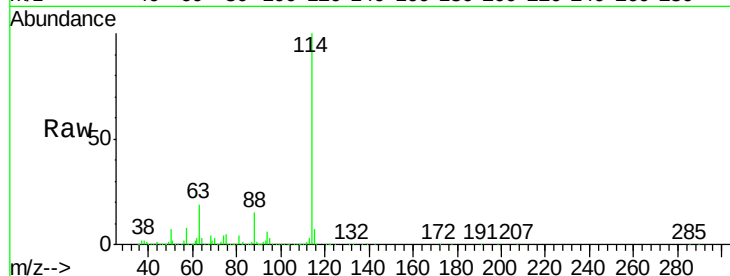




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.86 min Scan# 936  
Delta R.T. -0.00 min  
Lab File: VX007097.D  
Acq: 17 Jan 2019 18:56

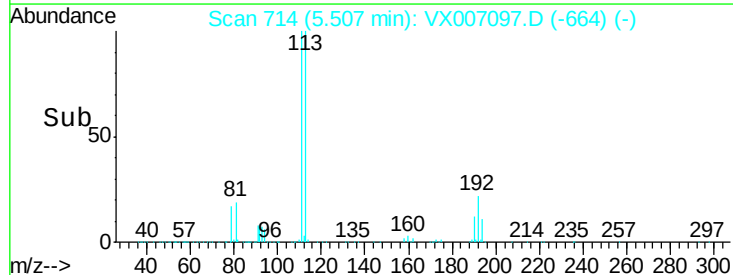
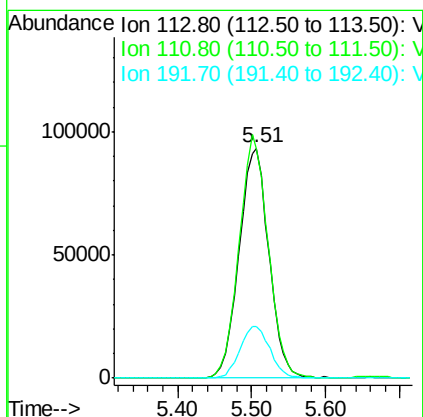
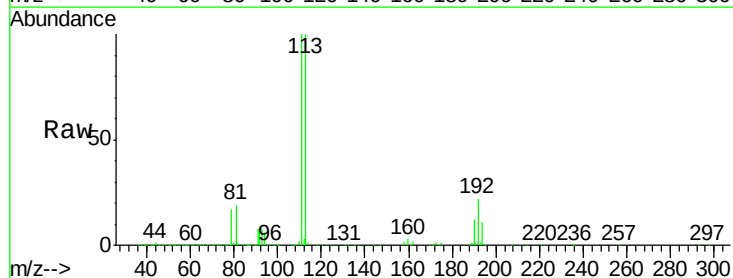
Instrument :  
MSVOA\_X  
ClientSampleId :  
WC-01-011519

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.0  | 0.0   | 34.8  |
| 88      | 14.7  | 0.0   | 28.8  |

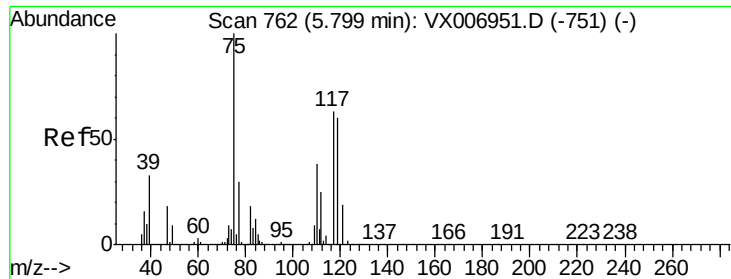


#35  
Dibromofluoromethane  
Concen: 46.954 ug/l  
RT: 5.51 min Scan# 714  
Delta R.T. 0.01 min  
Lab File: VX007097.D  
Acq: 17 Jan 2019 18:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.5 | 81.6  | 122.4 |
| 192     | 22.6  | 16.7  | 25.1  |



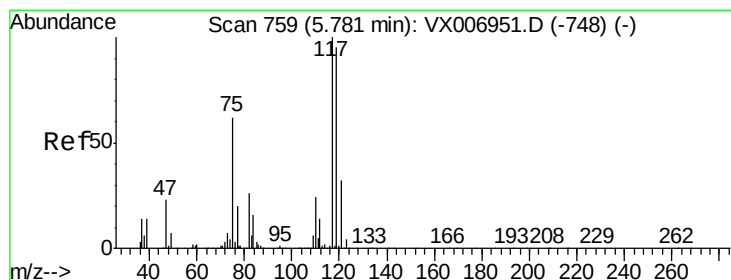
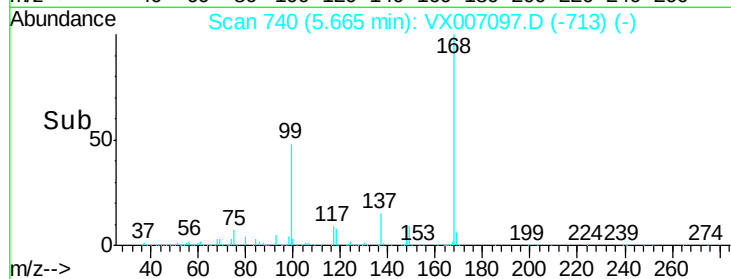
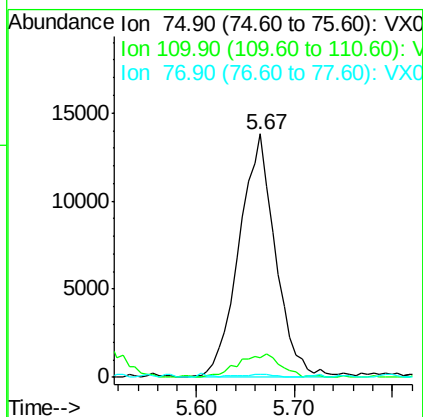
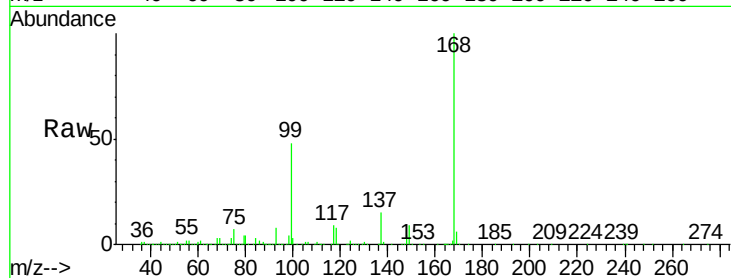




#36  
 1,1-Dichloropropene  
 Concen: 4.723 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.13 min  
 Lab File: VX007097.D  
 Acq: 17 Jan 2019 18:56

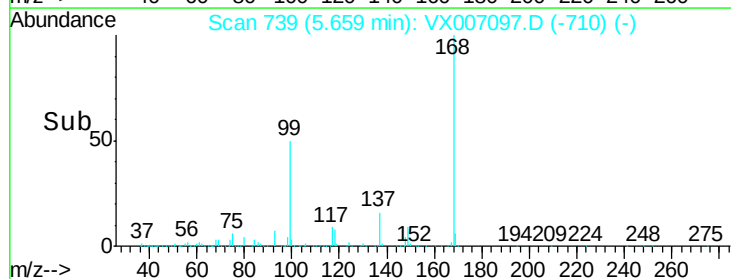
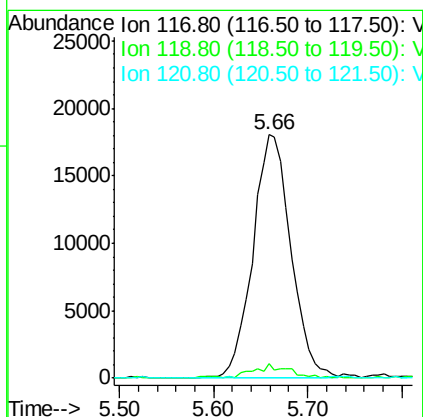
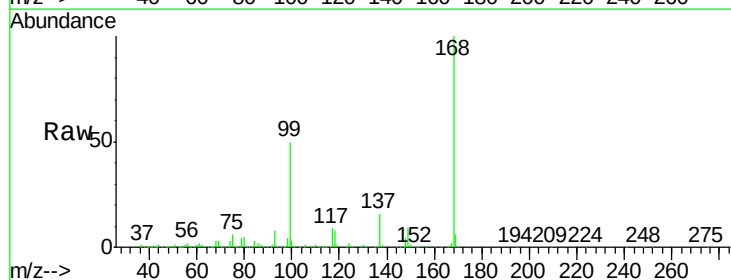
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WC-01-011519

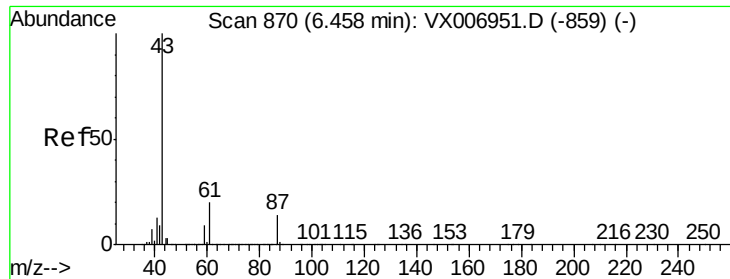
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.3  | 20.2  | 60.5# |
| 77      | 1.2   | 24.8  | 37.2# |



#38  
 Carbon Tetrachloride  
 Concen: 6.710 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.12 min  
 Lab File: VX007097.D  
 Acq: 17 Jan 2019 18:56

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.2   | 79.4  | 119.2# |
| 121     | 0.0   | 24.0  | 36.0#  |





#43

Isopropyl Acetate

Concen: 1.133 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007097.D

Acq: 17 Jan 2019 18:56

Instrument :

MSVOA\_X

ClientSampleId :

WC-01-011519

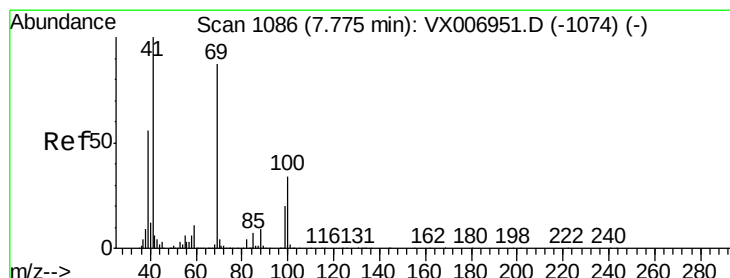
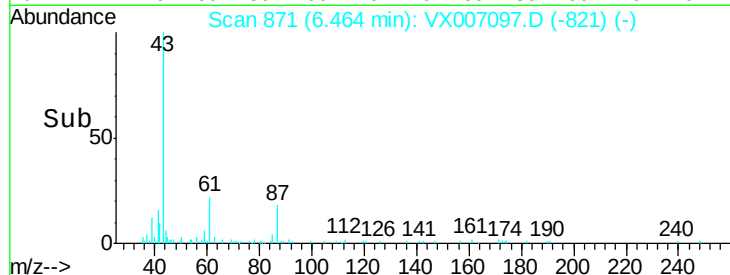
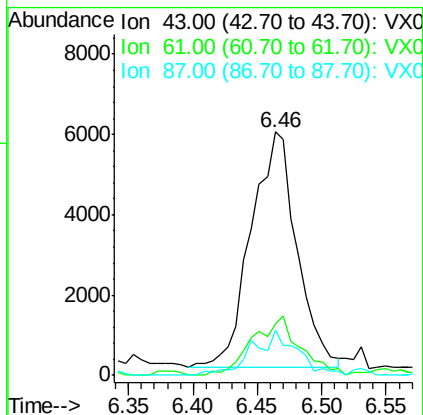
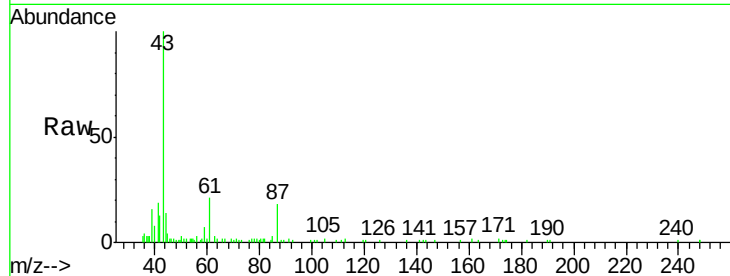
Tot Ion: 43 Resp: 14524

Ion Ratio Lower Upper

43 100

61 25.7 16.8 25.2#

87 18.7 12.4 18.6#



#48

Methyl methacrylate

Concen: 1.252 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX007097.D

Acq: 17 Jan 2019 18:56

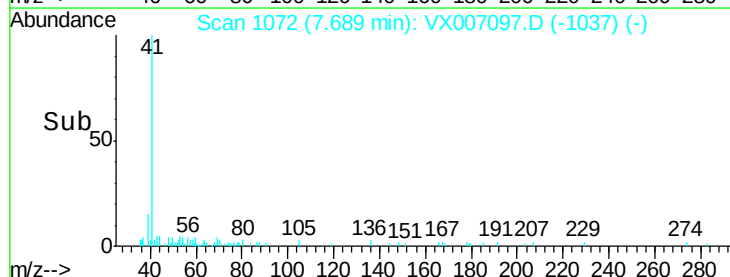
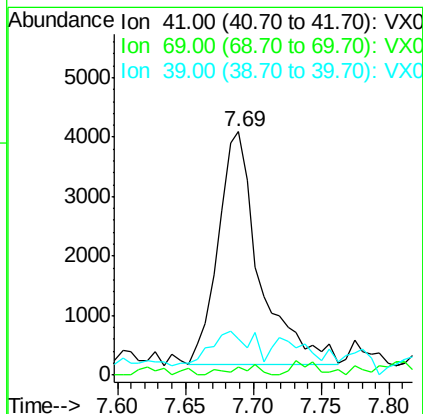
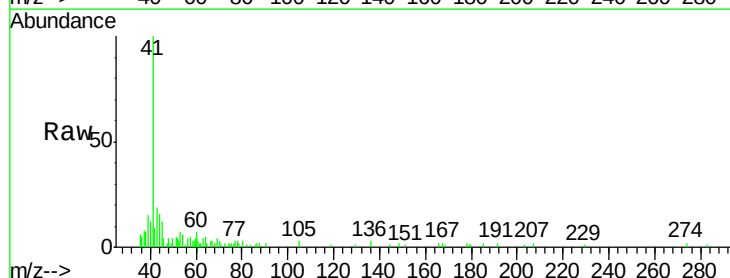
Tgt Ion: 41 Resp: 8242

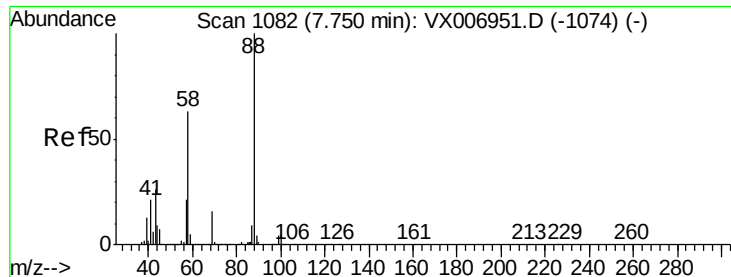
Ion Ratio Lower Upper

41 100

69 2.9 72.4 108.6#

39 13.0 45.8 68.8#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.74 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VX007097.D

Acq: 17 Jan 2019 18:56

Instrument :

MSVOA\_X

ClientSampled :

WC-01-011519

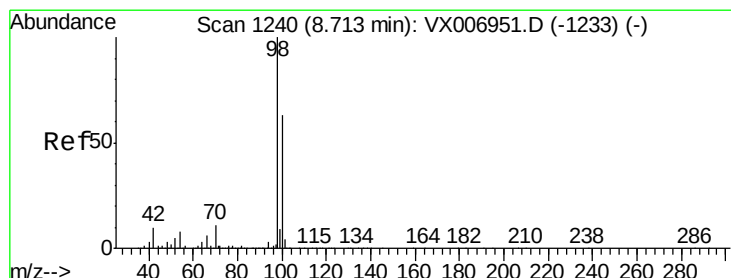
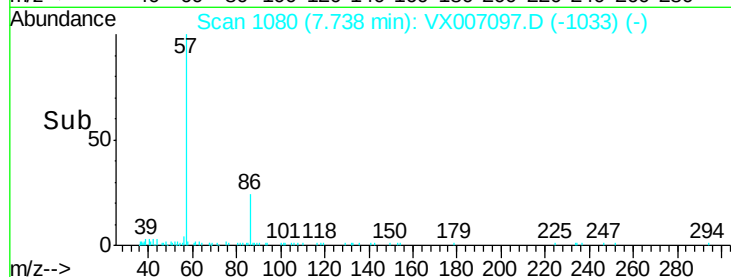
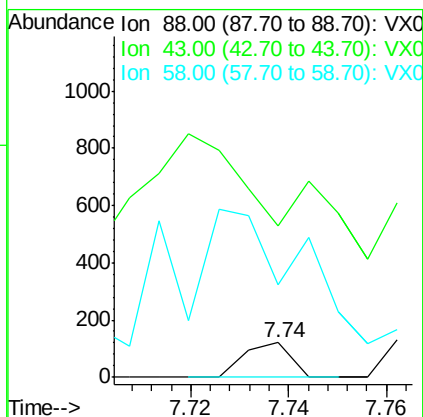
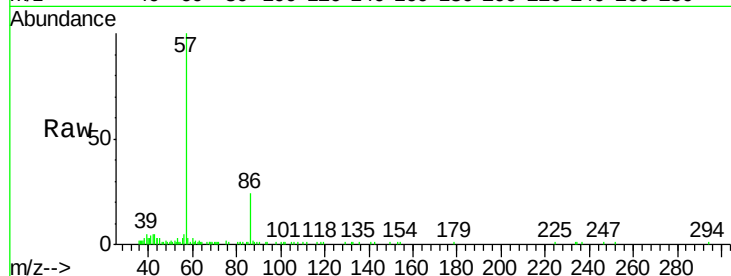
Tot Ion: 88 Resp: 79

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 1540.5 51.0 76.4#



#50

Toluene-d8

Concen: 51.760 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007097.D

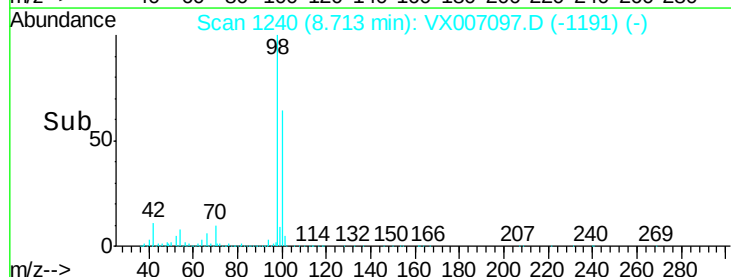
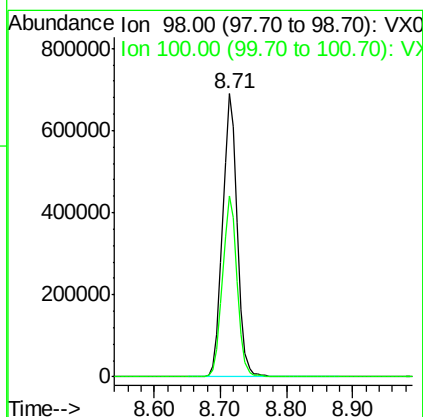
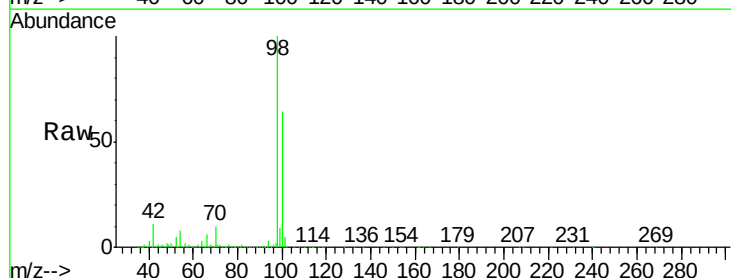
Acq: 17 Jan 2019 18:56

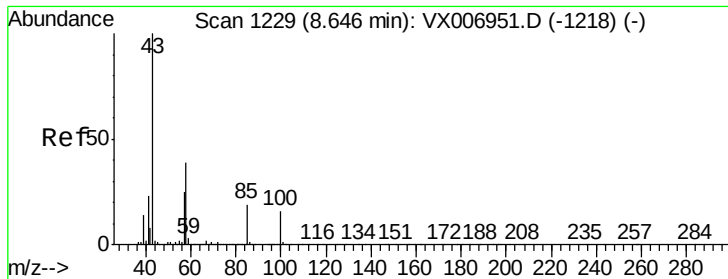
Tgt Ion: 98 Resp: 1058249

Ion Ratio Lower Upper

98 100

100 63.5 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 11.918 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007097.D

Acq: 17 Jan 2019 18:56

Instrument :

MSVOA\_X

ClientSampleId :

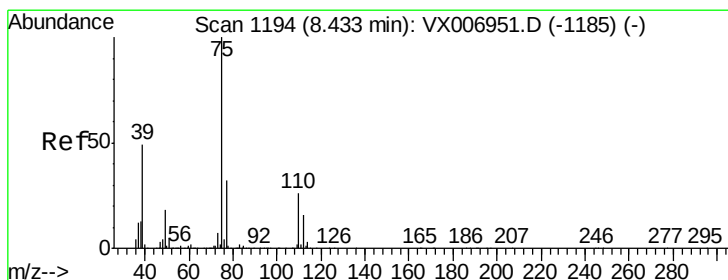
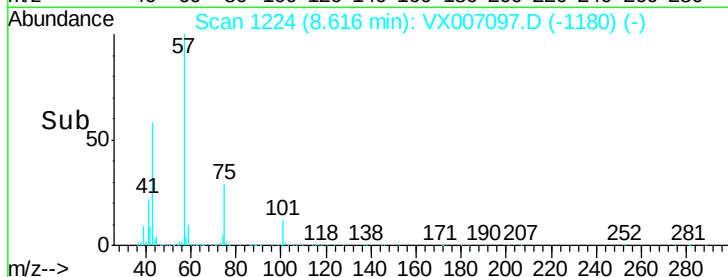
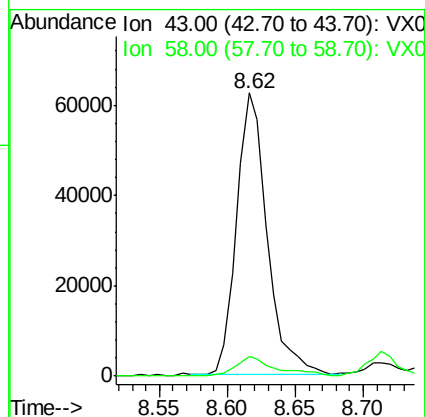
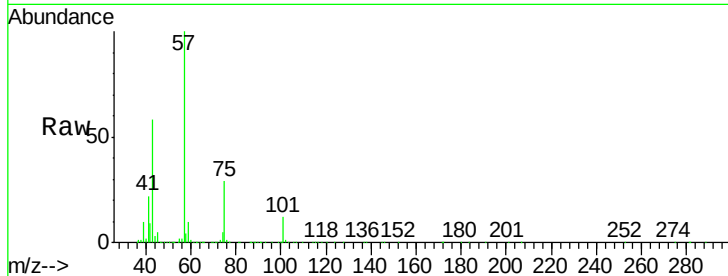
WC-01-011519

Tot Ion: 43 Resp: 98222

Ion Ratio Lower Upper

43 100

58 9.2 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 5.708 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007097.D

Acq: 17 Jan 2019 18:56

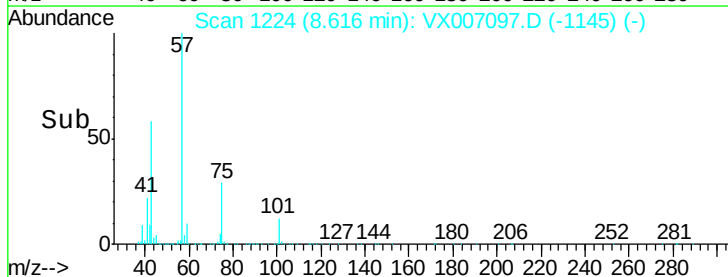
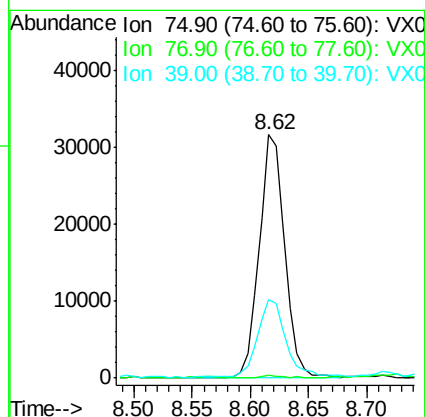
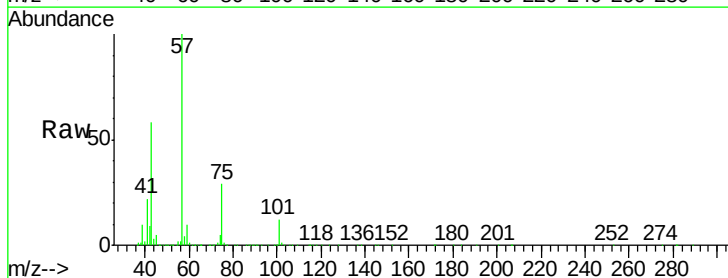
Tgt Ion: 75 Resp: 48642

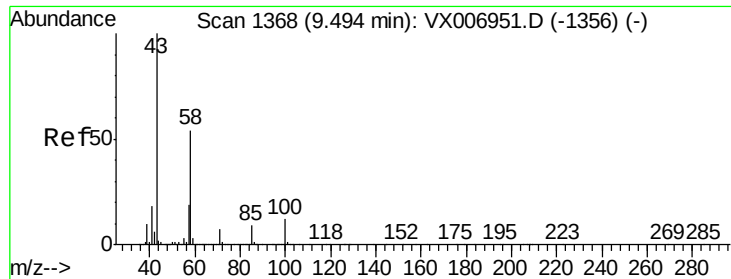
Ion Ratio Lower Upper

75 100

77 1.0 26.2 39.2#

39 31.4 36.7 55.1#





#59

2-Hexanone

Concen: 9.098 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007097.D

Acq: 17 Jan 2019 18:56

Instrument :

MSVOA\_X

ClientSampleId :

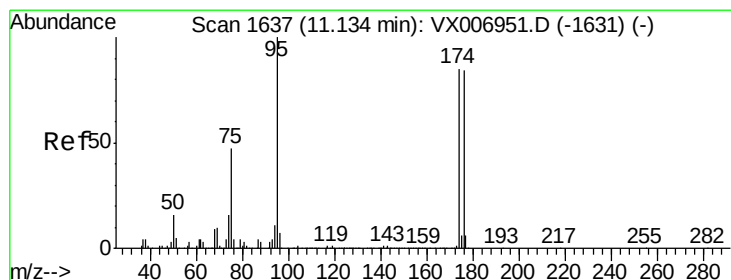
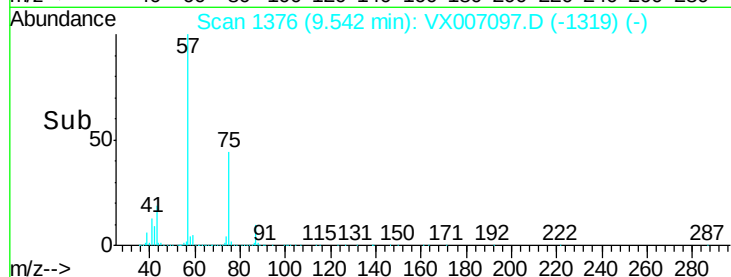
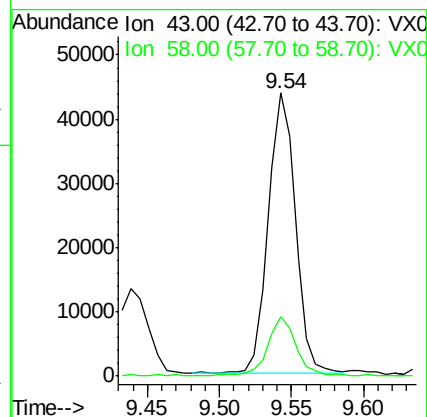
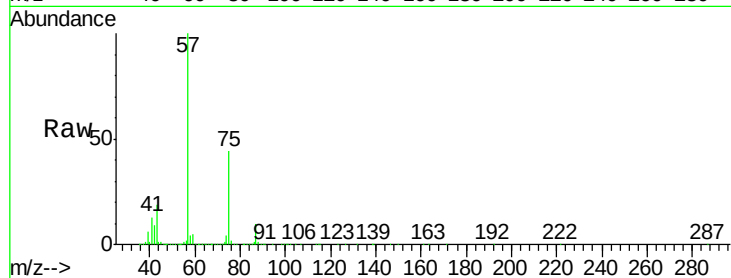
WC-01-011519

Tot Ion: 43 Resp: 57140

Ion Ratio Lower Upper

43 100

58 22.7 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 51.563 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007097.D

Acq: 17 Jan 2019 18:56

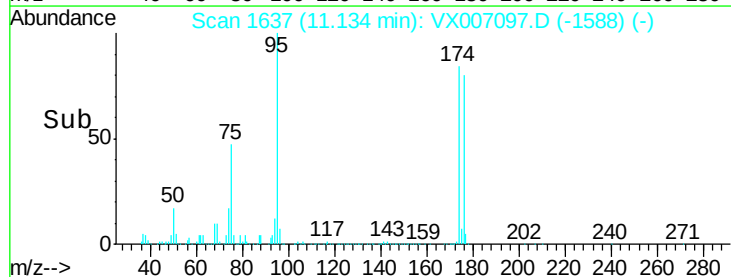
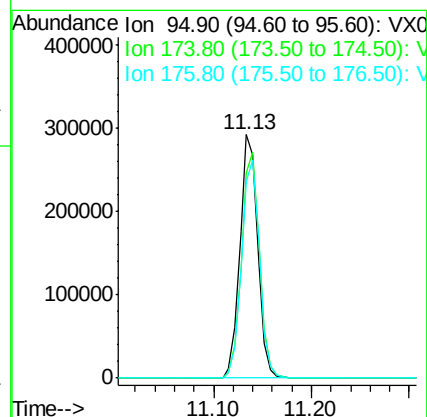
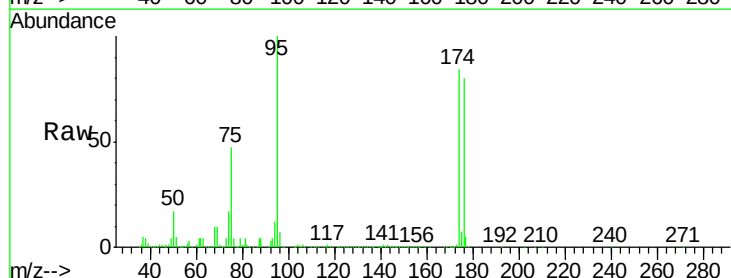
Tgt Ion: 95 Resp: 367523

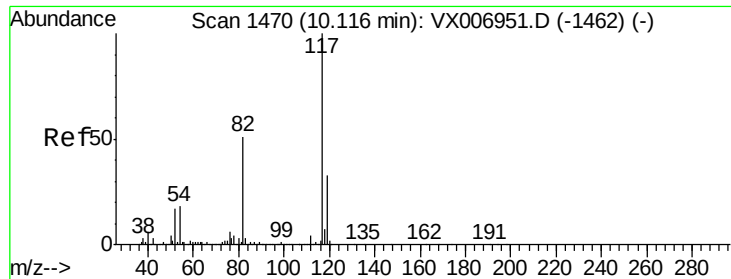
Ion Ratio Lower Upper

95 100

174 93.5 0.0 182.2

176 90.8 0.0 178.8

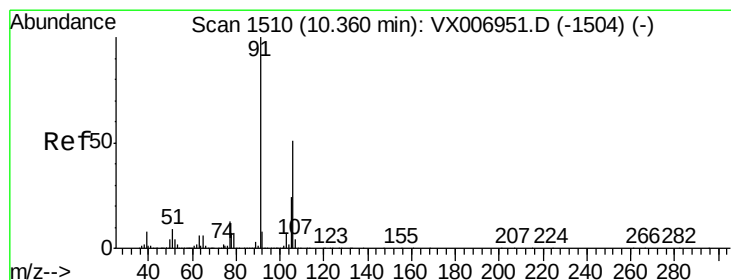
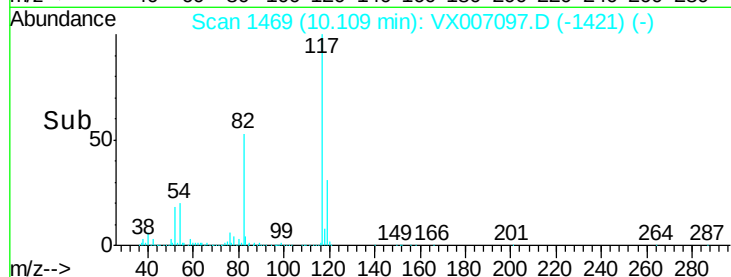
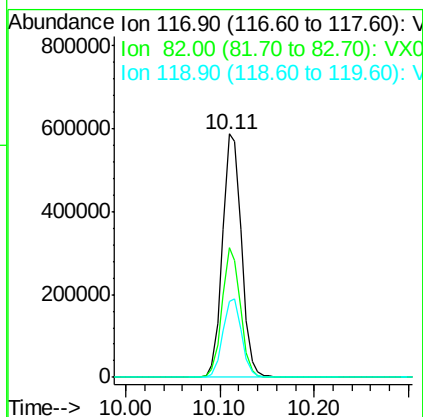
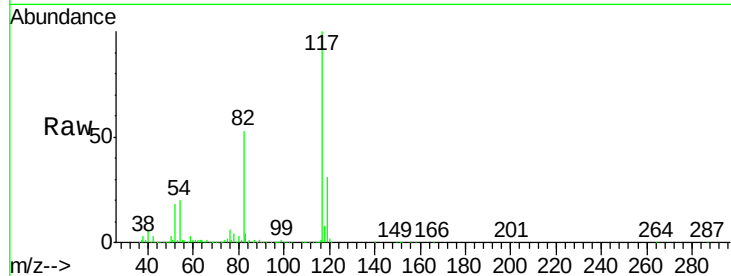




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.01 min  
Lab File: VX007097.D  
Acq: 17 Jan 2019 18:56

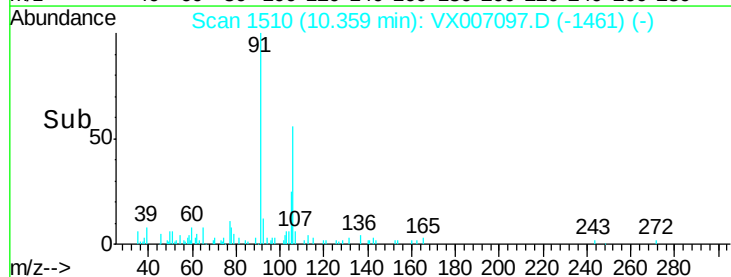
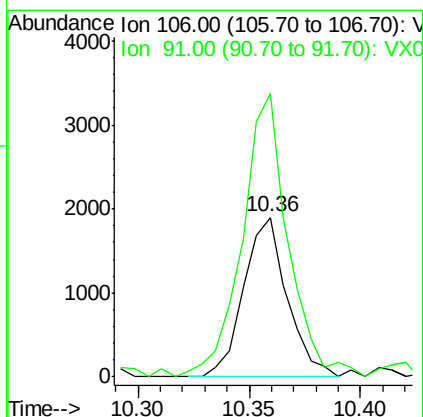
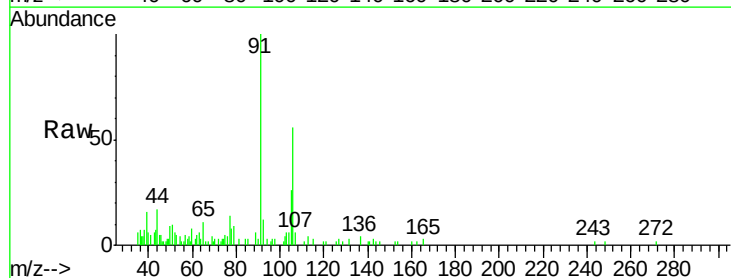
Instrument :  
MSVOA\_X  
ClientSampleId :  
WC-01-011519

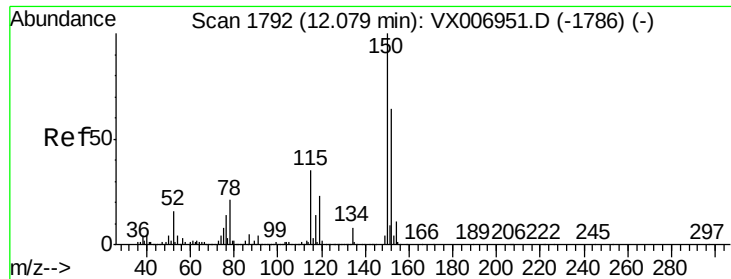
Tot Ion:117 Resp: 819043  
Ion Ratio Lower Upper  
117 100  
82 53.3 41.0 61.6  
119 31.3 25.4 38.0



#68  
m/p-Xylenes  
Concen: 0.222 ug/l  
RT: 10.36 min Scan# 1510  
Delta R.T. -0.00 min  
Lab File: VX007097.D  
Acq: 17 Jan 2019 18:56

Tgt Ion:106 Resp: 2578  
Ion Ratio Lower Upper  
106 100  
91 188.1 155.8 233.6

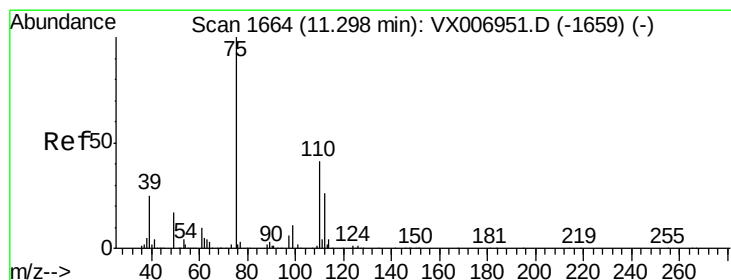
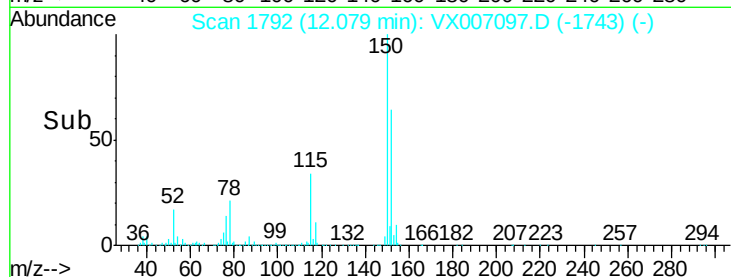
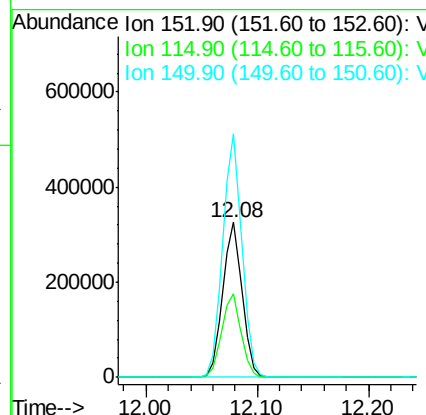
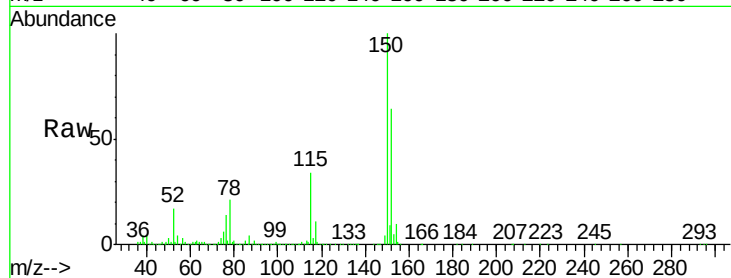




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.08 min Scan# 1792  
 Delta R.T. -0.00 min  
 Lab File: VX007097.D  
 Acq: 17 Jan 2019 18:56

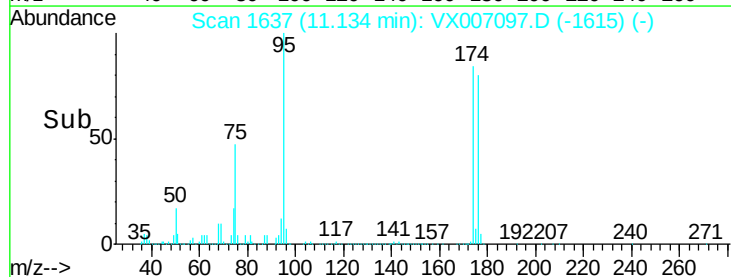
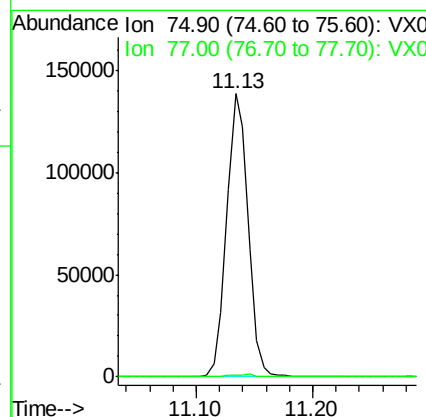
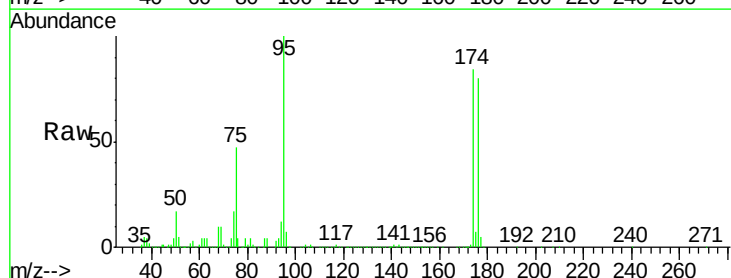
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WC-01-011519

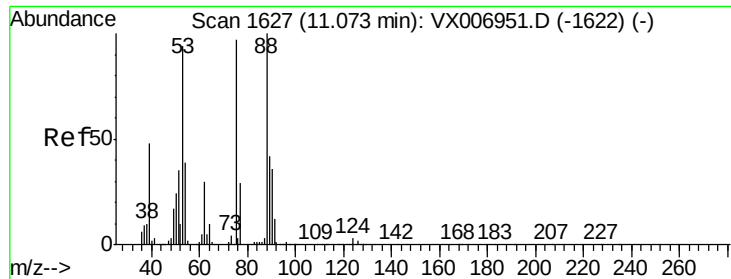
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.6  | 39.1  | 117.2 |
| 150     | 155.9 | 0.0   | 344.8 |



#76  
 1,2,3-Trichloropropane  
 Concen: 22.121 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX007097.D  
 Acq: 17 Jan 2019 18:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.4   | 18.5  | 55.5# |





#81

trans-1,4-Dichloro-2-butene

Concen: 65.491 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007097.D

Acq: 17 Jan 2019 18:56

Instrument :

MSVOA\_X

ClientSampleId :

WC-01-011519

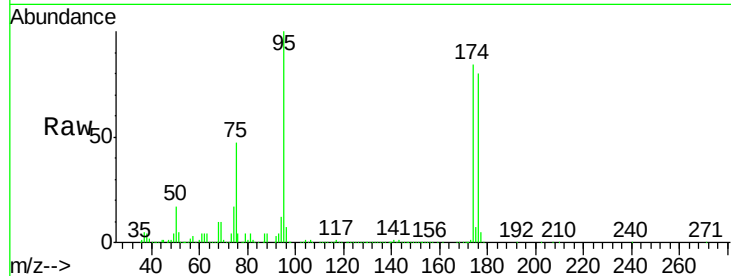
Tot Ion: 75 Resp: 175309

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

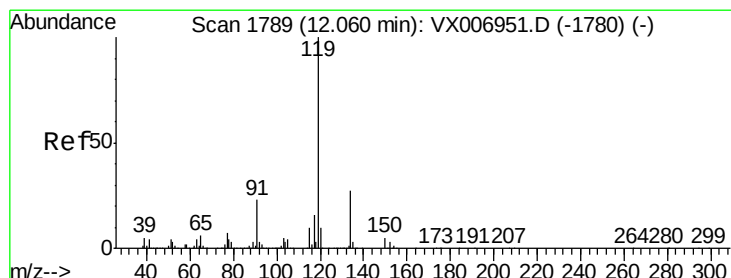
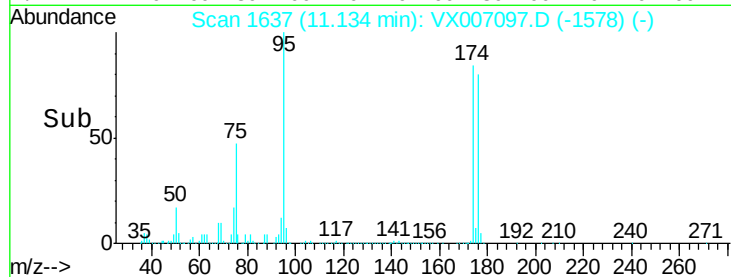
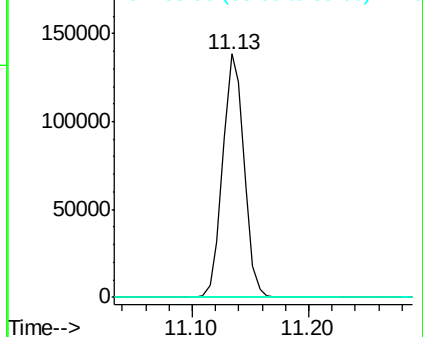
89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#86

p-Isopropyltoluene

Concen: 0.207 ug/l

RT: 12.24 min Scan# 1818

Delta R.T. 0.18 min

Lab File: VX007097.D

Acq: 17 Jan 2019 18:56

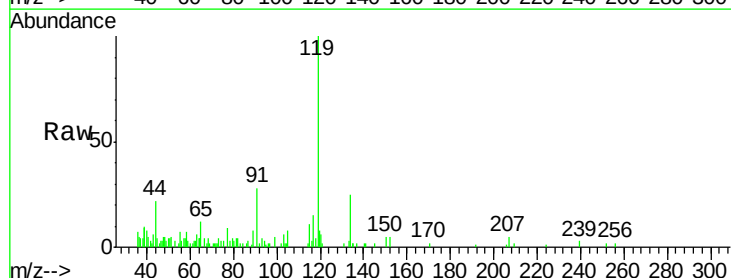
Tgt Ion:119 Resp: 5077

Ion Ratio Lower Upper

119 100

134 35.7 14.0 41.9

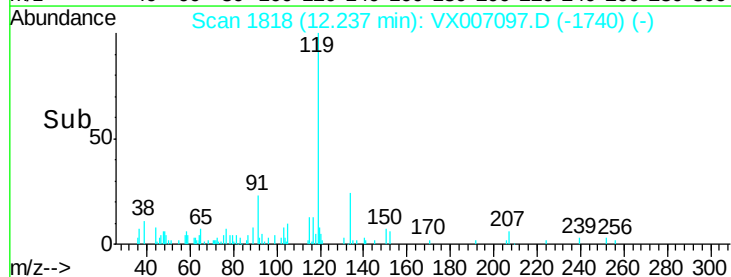
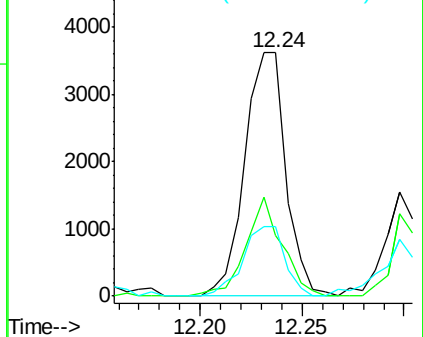
91 29.5 11.3 33.9



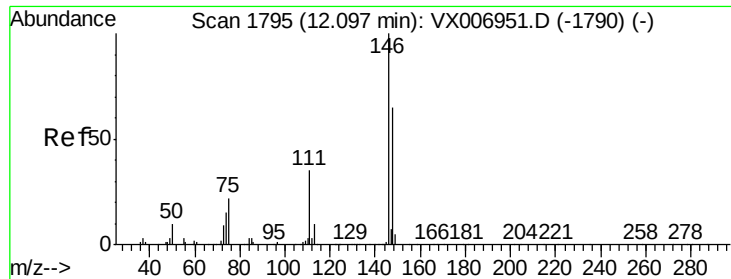
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0



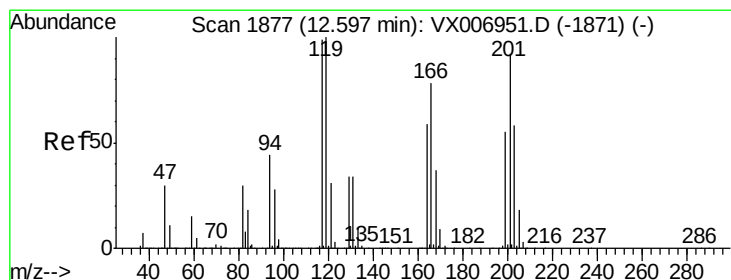
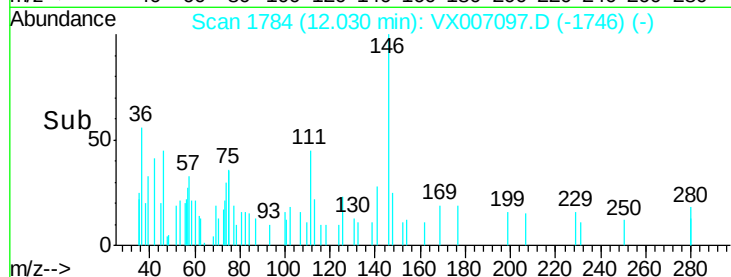
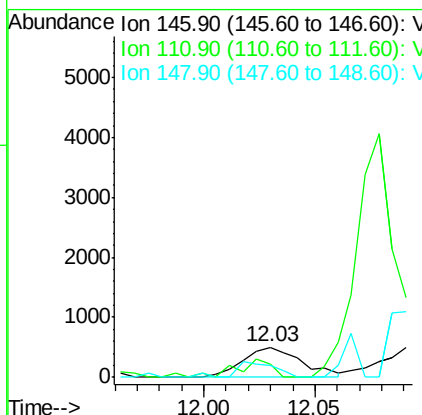
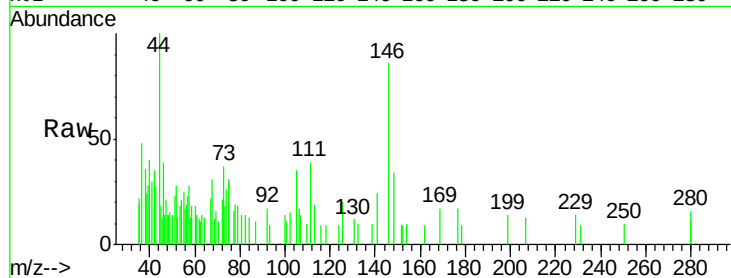




#88  
 1,4-Dichlorobenzene  
 Concen: 0.216 ug/l  
 RT: 12.03 min Scan# 1784  
 Delta R.T. -0.07 min  
 Lab File: VX007097.D  
 Acq: 17 Jan 2019 18:56

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WC-01-011519

Tot Ion:146 Resp: 926  
 Ion Ratio Lower Upper  
 146 100  
 111 34.3 18.1 54.1  
 148 34.4 31.9 95.9



#90  
 Hexachloroethane  
 Concen: 3.471 ug/l  
 RT: 12.66 min Scan# 1888  
 Delta R.T. 0.07 min  
 Lab File: VX007097.D  
 Acq: 17 Jan 2019 18:56

Tgt Ion:117 Resp: 2341  
 Ion Ratio Lower Upper  
 117 100  
 201 3.0 42.9 128.7#

