

Data File : VW001880.D

Acq On : 05 Apr 2018 14:50

Operator : JC/SY

Sample : VSTD10085

Misc : 5.00G/10ML/MSVOA\_W/SOIL

ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10085

Quant Time: Apr 05 15:07:55 2018

Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040518S.M

Quant Title : VOC Analysis

QLast Update : Thu Apr 05 15:01:36 2018

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 353421   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.64 | 117  | 345800   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 177759   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 475528  | 82.24  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.88  | 69  | 351868  | 82.48  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.01  | 63  | 1099563 | 91.03  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.09  | 46  | 298283  | 450.17 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 978211  | 86.68  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 587411  | 88.35  | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.28  | 84  | 1954237 | 91.39  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.28  | 67  | 619838  | 87.91  | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.34 | 98  | 1917897 | 98.91  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.59 | 79  | 289927  | 99.81  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 373990  | 373.32 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.71 | 84  | 619906  | 102.30 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.87 | 152 | 670043  | 94.25  | ug/L | 0.00 |

## Target Compounds

|                                |       |     |         |        |      | Qvalue |
|--------------------------------|-------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 2.00  | 85  | 830198  | 106.20 | ug/L | 99     |
| 3) Chloromethane               | 2.22  | 50  | 741015  | 93.01  | ug/L | 98     |
| 5) Vinyl chloride              | 2.36  | 62  | 705540  | 106.03 | ug/L | 98     |
| 6) Bromomethane                | 2.76  | 94  | 322127  | 119.97 | ug/L | 99     |
| 8) Chloroethane                | 2.92  | 64  | 366779  | 102.00 | ug/L | 97     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 938131  | 97.73  | ug/L | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 572520  | 98.98  | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 4.03  | 96  | 539296  | 105.23 | ug/L | 92     |
| 13) Acetone                    | 4.13  | 43  | 337094  | 171.92 | ug/L | 99     |
| 14) Carbon disulfide           | 4.37  | 76  | 1880867 | 101.56 | ug/L | 100    |
| 15) Methyl Acetate             | 4.68  | 43  | 428810  | 128.96 | ug/L | 98     |
| 16) Methylene chloride         | 4.92  | 84  | 571920  | 78.63  | ug/L | 100    |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 1371128 | 120.70 | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 584751  | 108.81 | ug/L | 100    |
| 19) 1,1-Dichloroethane         | 6.22  | 63  | 1059312 | 101.66 | ug/L | 99     |
| 21) 2-Butanone                 | 7.18  | 43  | 568404  | 249.08 | ug/L | 98     |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 614314  | 112.07 | ug/L | 97     |
| 23) Bromochloromethane         | 7.52  | 128 | 262719  | 109.11 | ug/L | 96     |
| 25) Chloroform                 | 7.68  | 83  | 1081294 | 99.00  | ug/L | 100    |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 767903  | 99.64  | ug/L | 99     |
| 30) Cyclohexane                | 7.95  | 56  | 1103583 | 127.06 | ug/L | 99     |
| 31) 1,1,1-Trichloroethane      | 7.88  | 97  | 957327  | 105.23 | ug/L | 99     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 865988  | 104.70 | ug/L | 99     |
| 34) Benzene                    | 8.33  | 78  | 2339017 | 104.45 | ug/L | 100    |
| 35) Trichloroethene            | 9.10  | 95  | 616063  | 102.80 | ug/L | 100    |
| 36) Methylcyclohexane          | 9.34  | 83  | 1107544 | 117.87 | ug/L | 99     |
| 40) 1,2-Dichloropropane        | 9.38  | 63  | 612915  | 99.17  | ug/L | 100    |
| 41) Bromodichloromethane       | 9.65  | 83  | 768049  | 99.53  | ug/L | 97     |
| 42) cis-1,3-Dichloropropene    | 10.08 | 75  | 967001  | 116.31 | ug/L | 98     |
| 43) 4-Methyl-2-pentanone       | 10.22 | 43  | 1216381 | 285.55 | ug/L | 98     |

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10085

Quant Time: Apr 05 15:07:55 2018

Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040518S.M

Quant Title : VOC Analysis

QLast Update : Thu Apr 05 15:01:36 2018

Response via : Initial Calibration

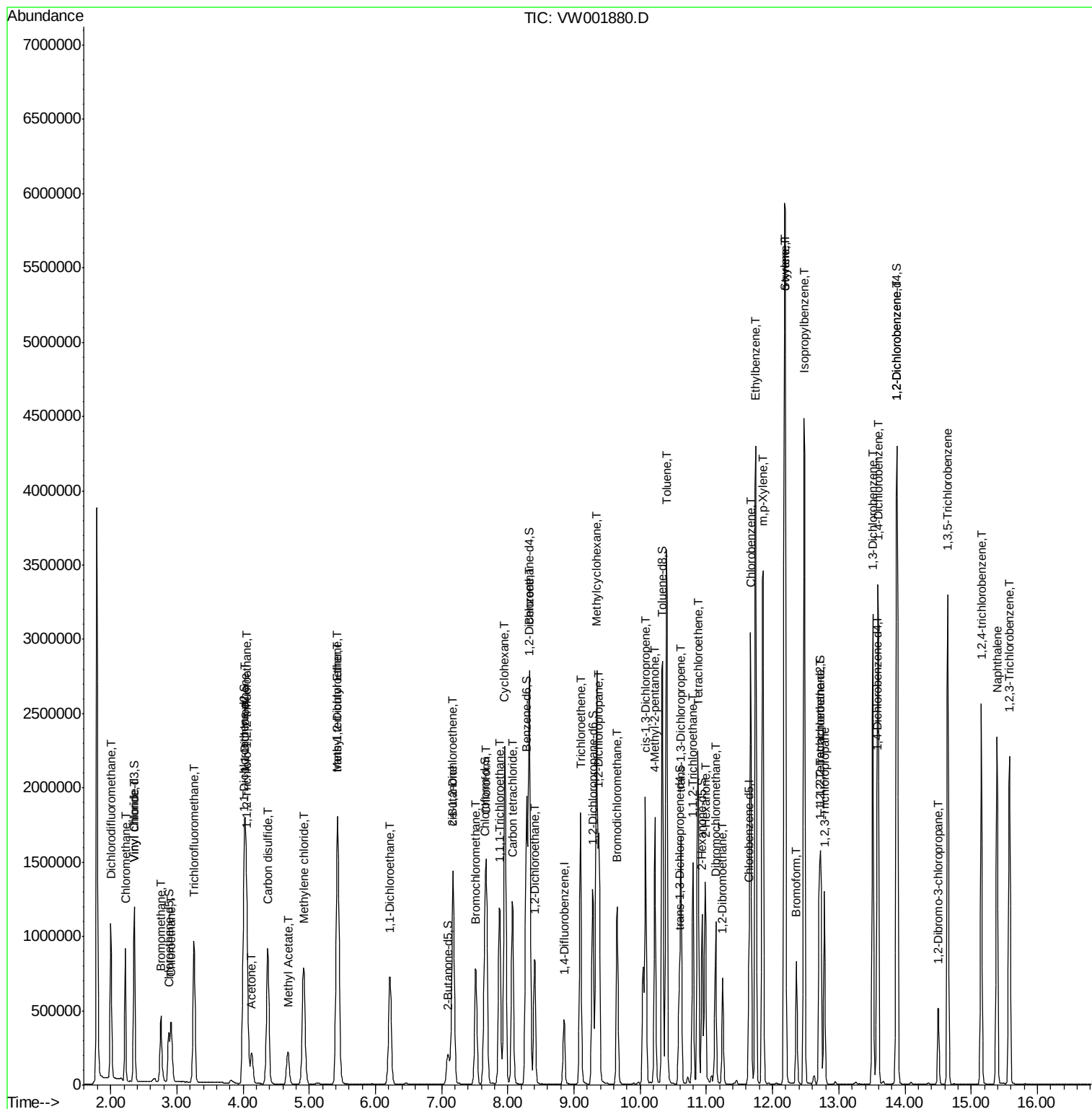
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 44) Toluene                    | 10.40 | 91   | 2593200  | 111.81 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 10.62 | 75   | 854804   | 115.08 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane      | 10.80 | 97   | 465923   | 101.61 | ug/L  | 97       |
| 47) Tetrachloroethene          | 10.87 | 164  | 496446   | 106.64 | ug/L  | 99       |
| 49) 2-Hexanone                 | 10.98 | 43   | 892925   | 288.66 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.14 | 129  | 556292   | 105.17 | ug/L  | 99       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 461090   | 112.49 | ug/L  | 95       |
| 52) Chlorobenzene              | 11.67 | 112  | 1576537  | 103.94 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.74 | 91   | 2956840  | 116.15 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.85 | 106  | 1094623  | 117.18 | ug/L  | 99       |
| 55) o-xylene                   | 12.18 | 106  | 1032767  | 118.13 | ug/L  | 100      |
| 56) Styrene                    | 12.19 | 104  | 1771196  | 116.08 | ug/L  | 97       |
| 57) Isopropylbenzene           | 12.48 | 105  | 2842557  | 121.35 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 654993   | 111.22 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 12.78 | 75   | 523369   | 114.87 | ug/L  | 98       |
| 62) Bromoform                  | 12.36 | 173  | 360850   | 110.26 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 13.51 | 146  | 1234211  | 108.91 | ug/L  | 100      |
| 64) 1,4-Dichlorobenzene        | 13.59 | 146  | 1264895  | 101.93 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 13.88 | 146  | 1160762  | 103.12 | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 14.50 | 75   | 132118   | 117.96 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 14.65 | 180  | 956749   | 108.61 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 15.15 | 180  | 784043   | 114.10 | ug/L  | 99       |
| 69) Naphthalene                | 15.39 | 128  | 1873565  | 138.82 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.58 | 180  | 731152   | 110.79 | ug/L  | 99       |

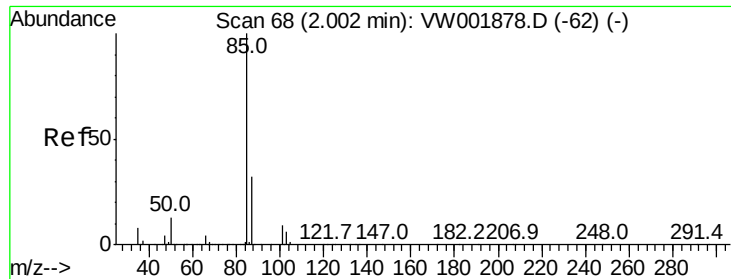
(#)=qualifier out of range (m)=manual integration (+)=signals summed

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Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040518S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Apr 05 15:01:36 2018  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 106.20 ug/L

RT: 2.00 min Scan# 68

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

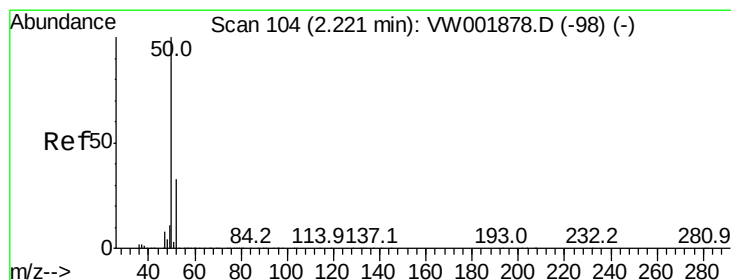
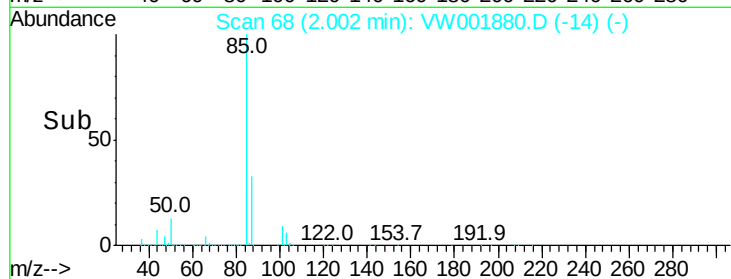
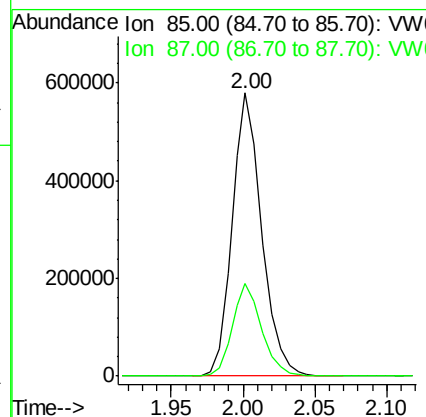
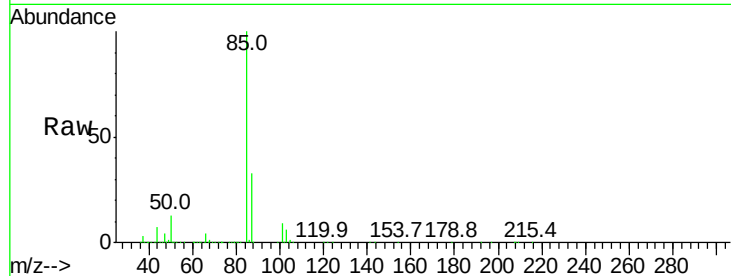
VSTD10085

Tgt Ion: 85 Resp: 830198

Ion Ratio Lower Upper

85 100

87 32.5 22.3 41.5



#3

Chloromethane

Concen: 93.01 ug/L

RT: 2.22 min Scan# 104

Delta R.T. -0.00 min

Lab File: VW001880.D

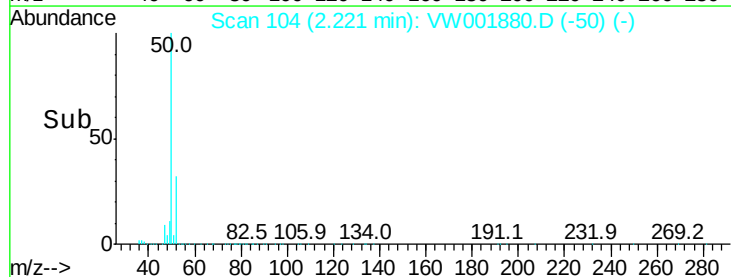
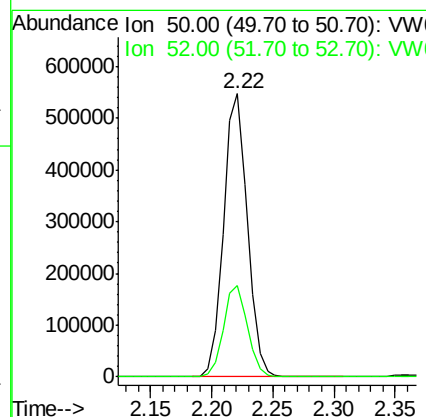
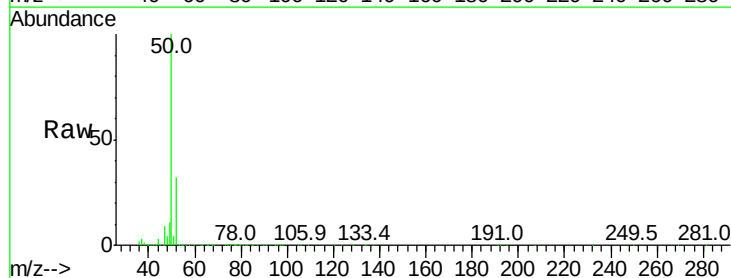
Acq: 05 Apr 2018 14:50

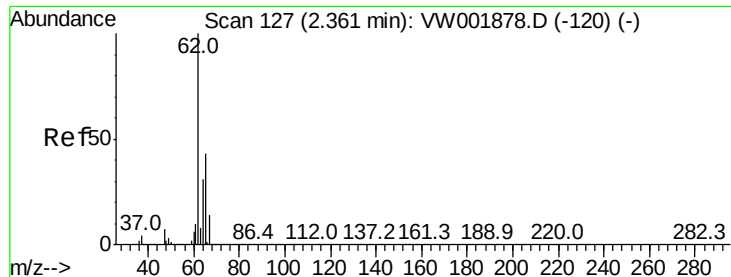
Tgt Ion: 50 Resp: 741015

Ion Ratio Lower Upper

50 100

52 32.2 23.2 43.0





#5

Vinyl chloride

Concen: 106.03 ug/L

RT: 2.36 min Scan# 127

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

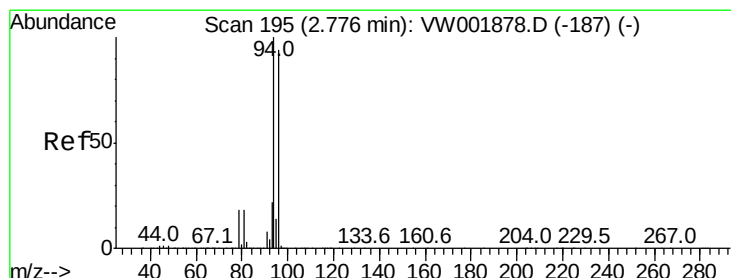
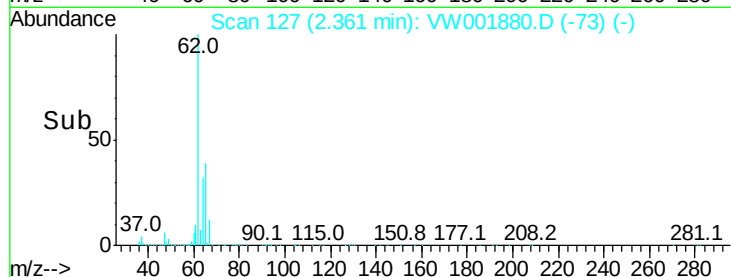
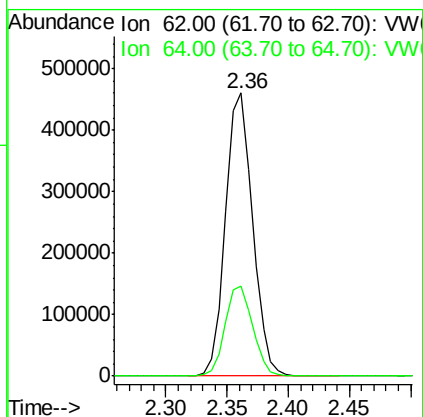
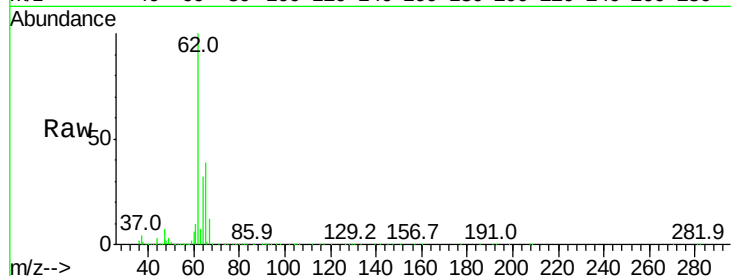
VSTD10085

Tgt Ion: 62 Resp: 705540

Ion Ratio Lower Upper

62 100

64 31.9 21.4 39.8



#6

Bromomethane

Concen: 119.97 ug/L

RT: 2.76 min Scan# 192

Delta R.T. -0.02 min

Lab File: VW001880.D

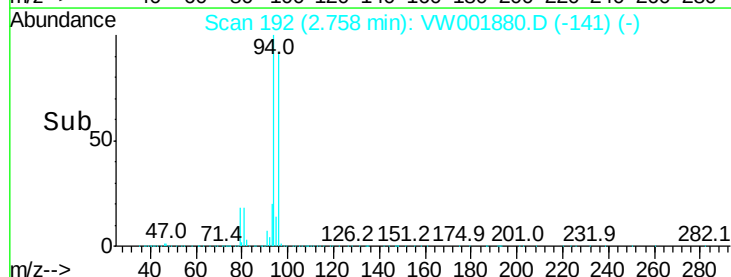
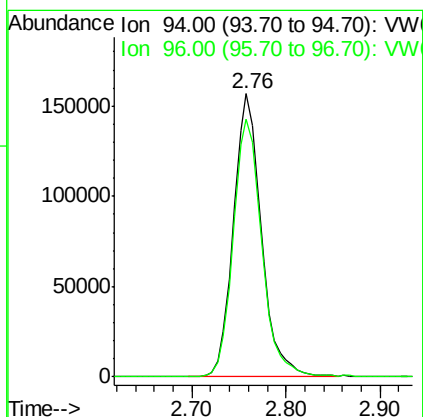
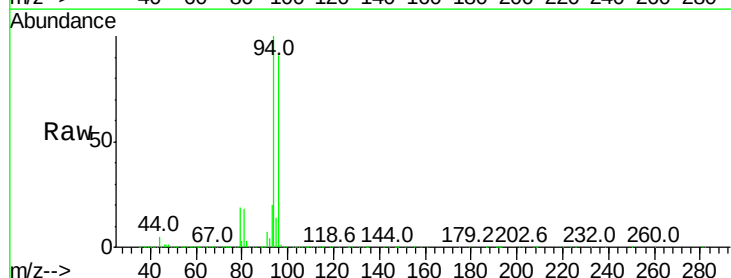
Acq: 05 Apr 2018 14:50

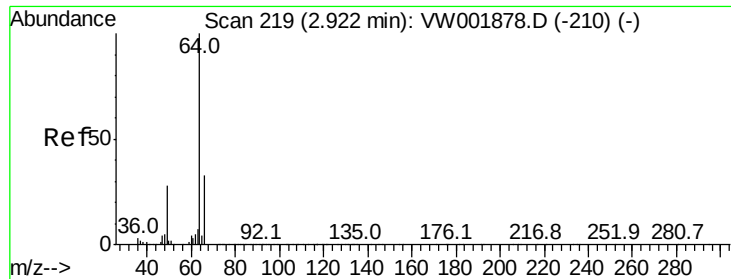
Tgt Ion: 94 Resp: 322127

Ion Ratio Lower Upper

94 100

96 93.3 9.5 179.7





#8

Chloroethane

Concen: 102.00 ug/L

RT: 2.92 min Scan# 218

Delta R.T. -0.01 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

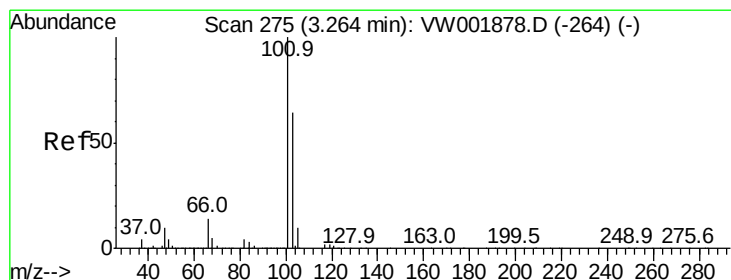
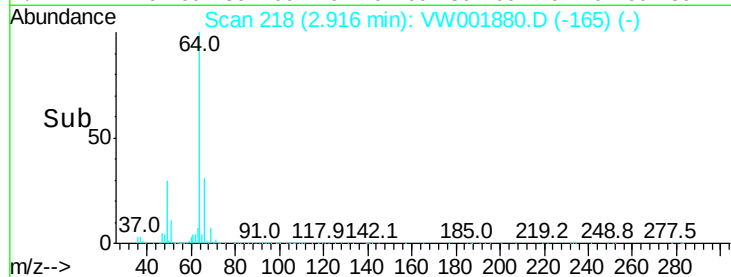
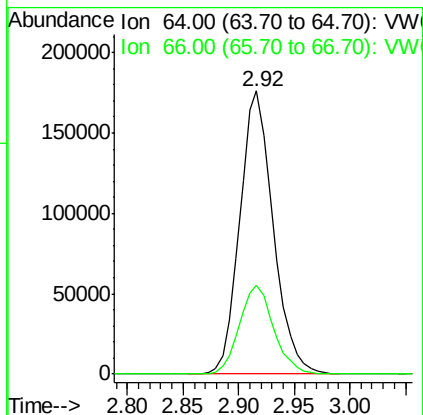
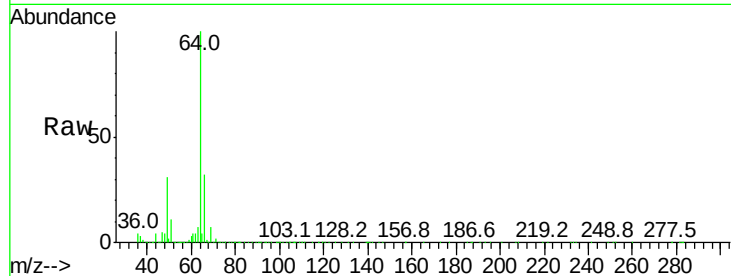
VSTD10085

Tgt Ion: 64 Resp: 366779

Ion Ratio Lower Upper

64 100

66 31.5 23.4 43.4



#9

Trichlorofluoromethane

Concen: 97.73 ug/L

RT: 3.26 min Scan# 274

Delta R.T. -0.01 min

Lab File: VW001880.D

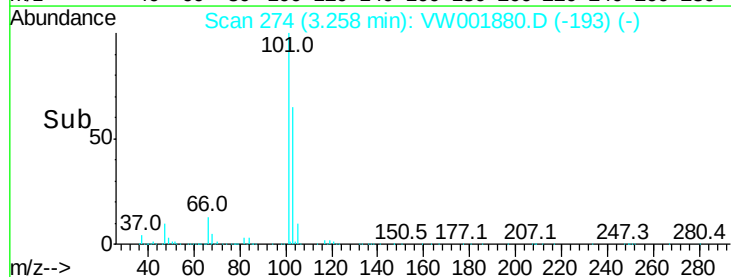
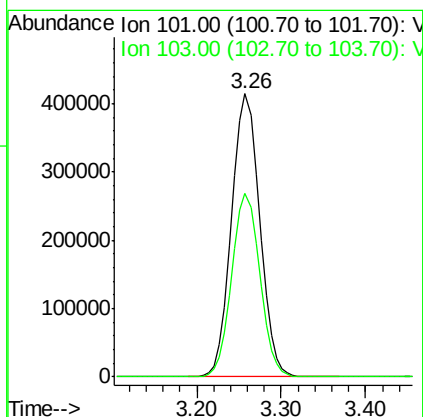
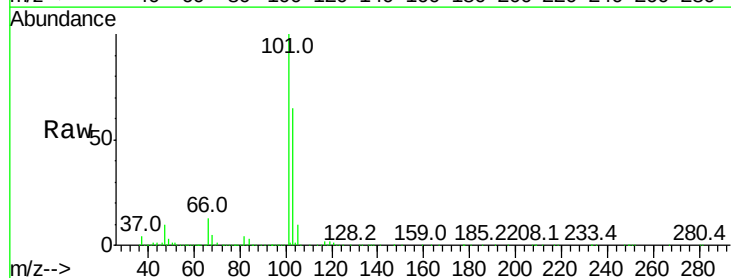
Acq: 05 Apr 2018 14:50

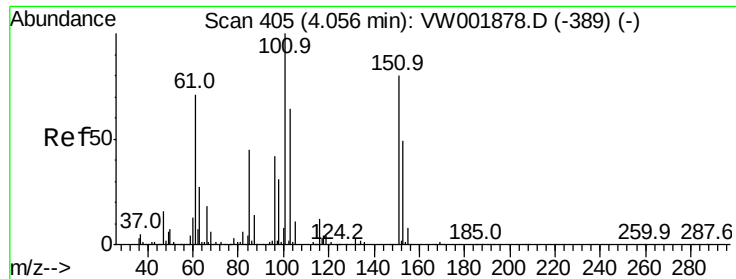
Tgt Ion: 101 Resp: 938131

Ion Ratio Lower Upper

101 100

103 64.6 45.2 84.0





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 98.98 ug/L

RT: 4.06 min Scan# 405

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10085

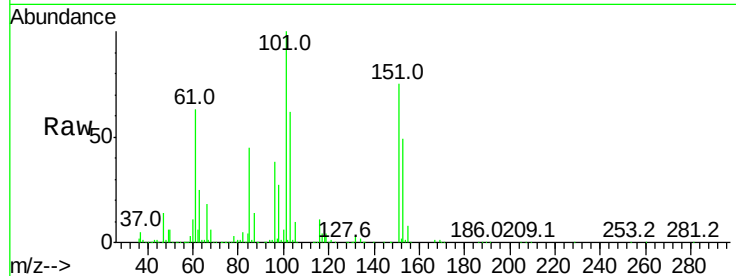
Tgt Ion: 101 Resp: 572520

Ion Ratio Lower Upper

101 100

85 44.9 35.8 53.8

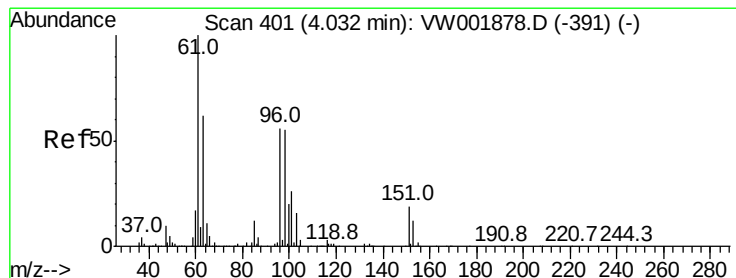
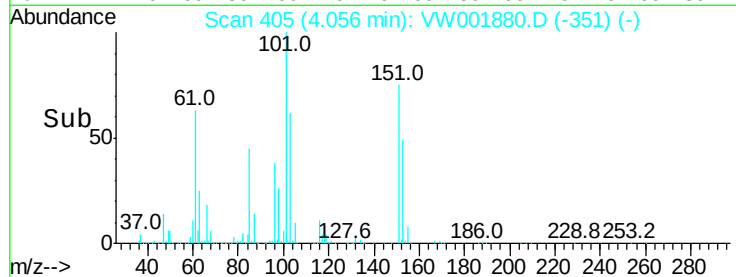
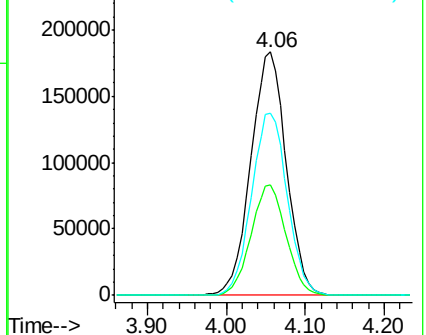
151 75.6 61.5 92.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 105.23 ug/L

RT: 4.03 min Scan# 401

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

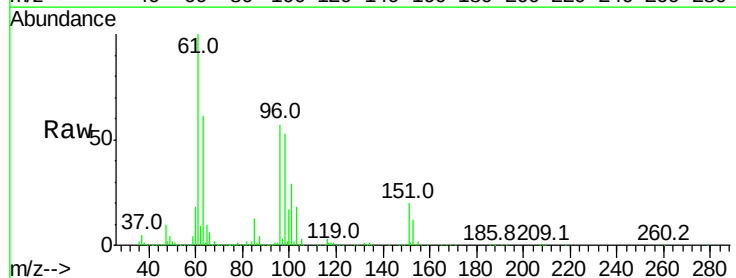
Tgt Ion: 96 Resp: 539296

Ion Ratio Lower Upper

96 100

61 176.9 127.1 236.1

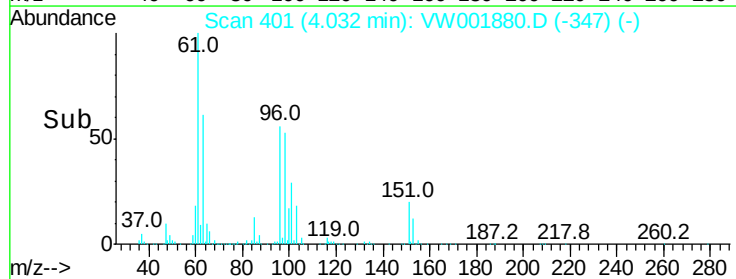
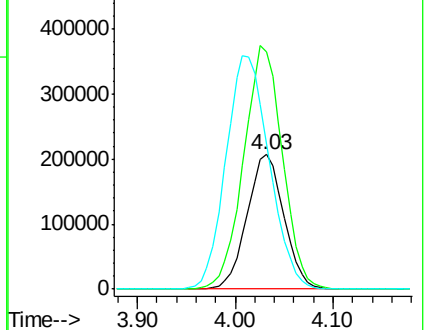
63 108.0 86.5 160.7

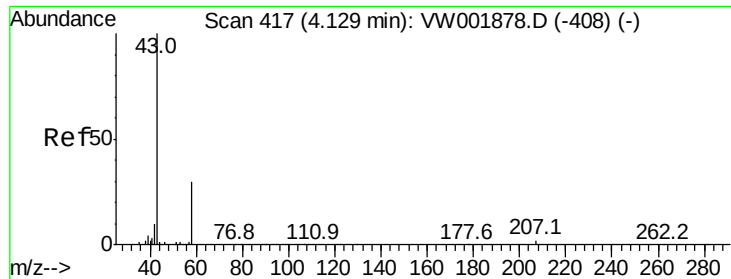


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 171.92 ug/L

RT: 4.13 min Scan# 417

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

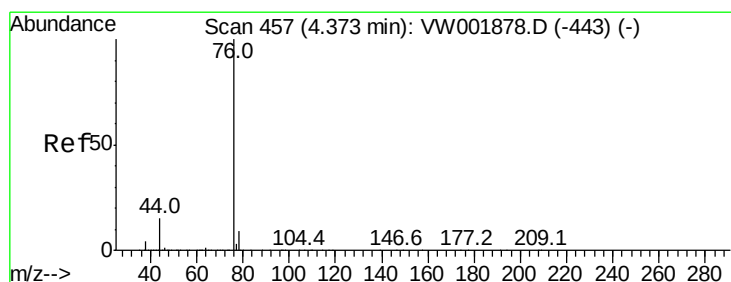
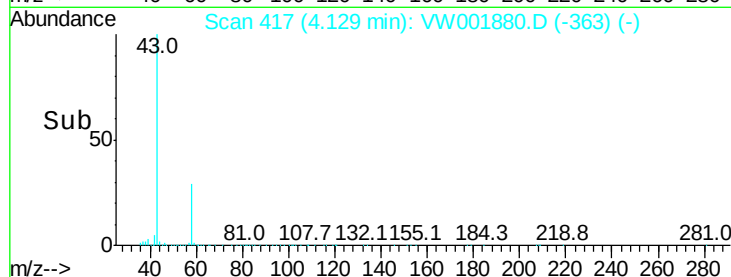
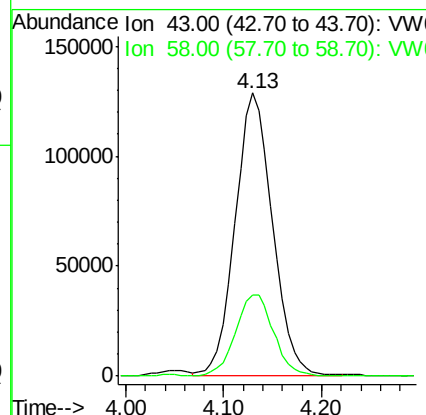
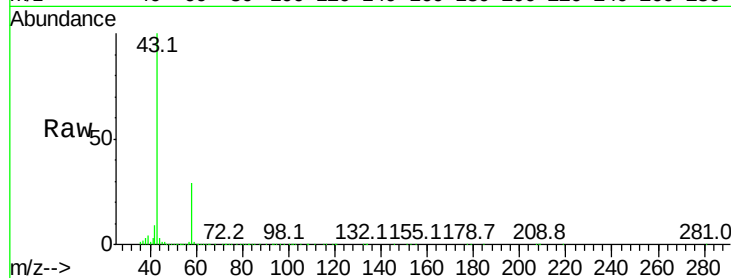
VSTD10085

Tgt Ion: 43 Resp: 337094

Ion Ratio Lower Upper

43 100

58 29.4 0.0 59.6



#14

Carbon disulfide

Concen: 101.56 ug/L

RT: 4.37 min Scan# 457

Delta R.T. -0.00 min

Lab File: VW001880.D

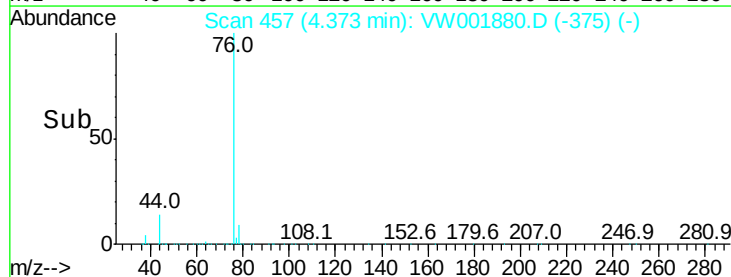
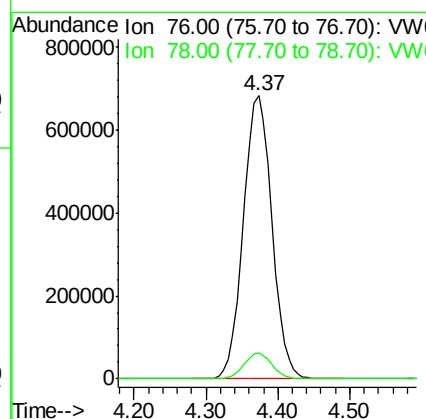
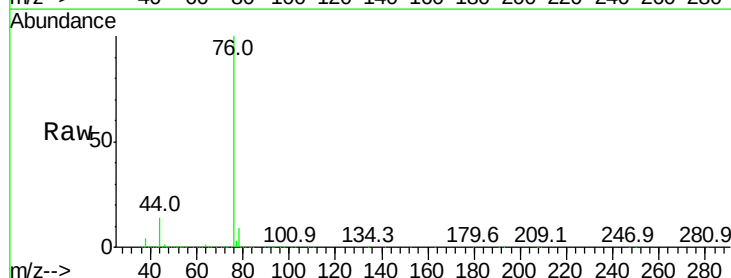
Acq: 05 Apr 2018 14:50

Tgt Ion: 76 Resp: 1880867

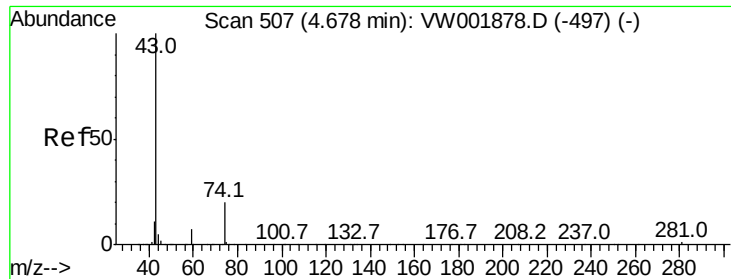
Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9



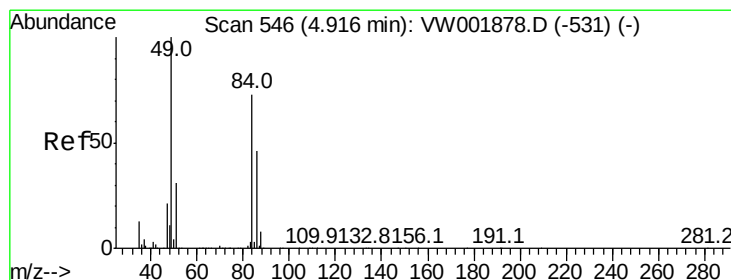
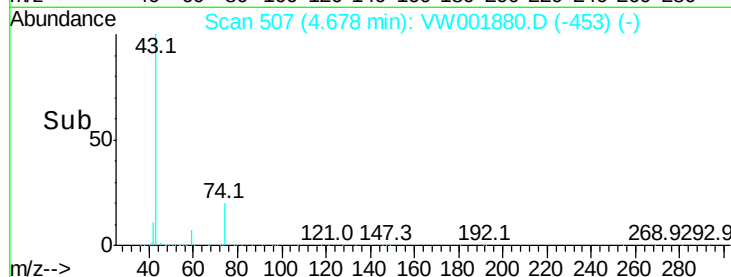
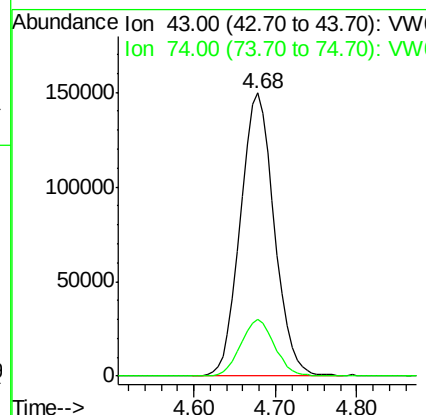
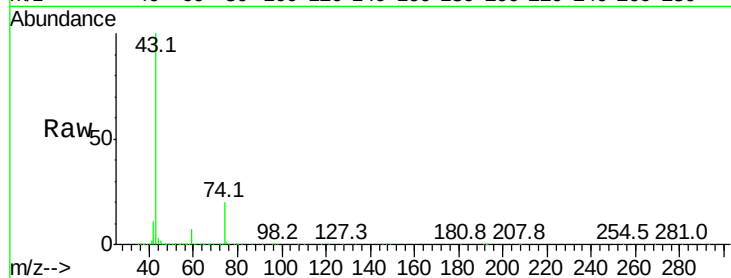




#15  
Methyl Acetate  
Concen: 128.96 ug/L  
RT: 4.68 min Scan# 507  
Delta R.T. -0.00 min  
Lab File: VW001880.D  
Acq: 05 Apr 2018 14:50

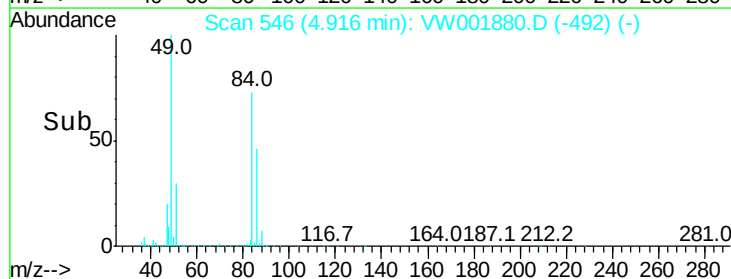
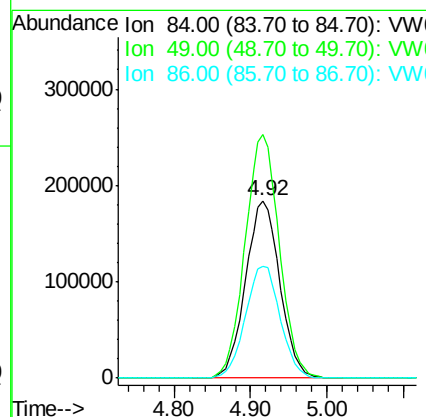
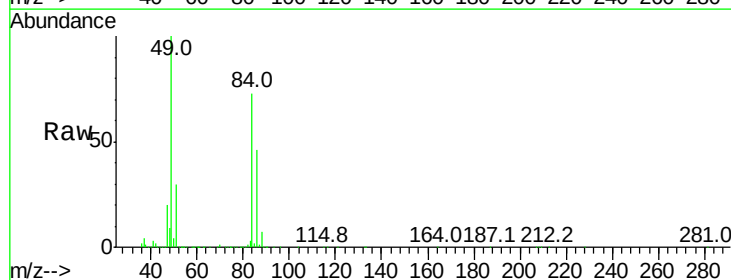
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10085

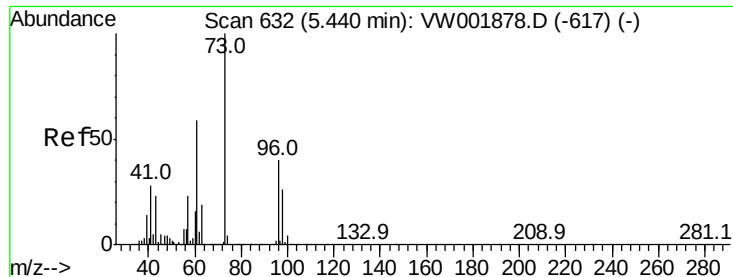
Tgt Ion: 43 Resp: 428810  
Ion Ratio Lower Upper  
43 100  
74 20.1 17.0 25.4



#16  
Methylene chloride  
Concen: 78.63 ug/L  
RT: 4.92 min Scan# 546  
Delta R.T. -0.00 min  
Lab File: VW001880.D  
Acq: 05 Apr 2018 14:50

Tgt Ion: 84 Resp: 571920  
Ion Ratio Lower Upper  
84 100  
49 137.1 96.2 178.6  
86 62.9 44.1 81.9



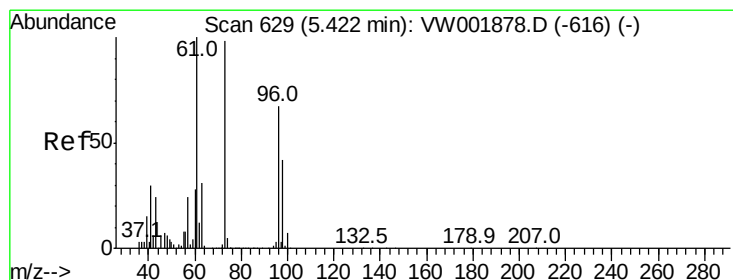
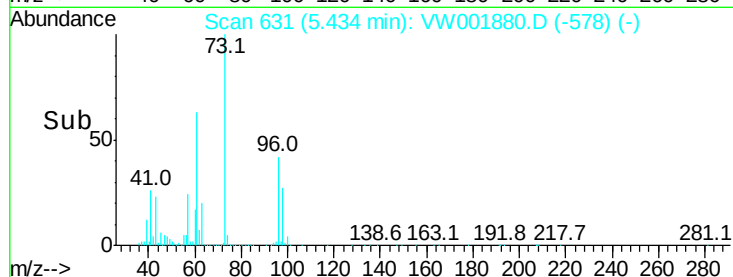
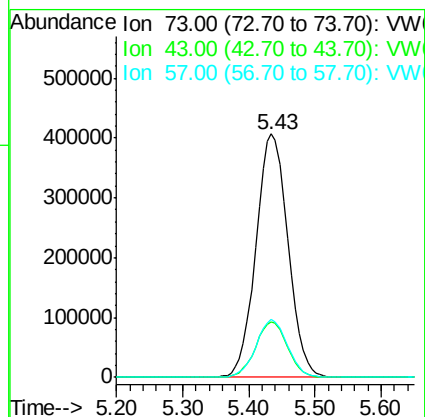
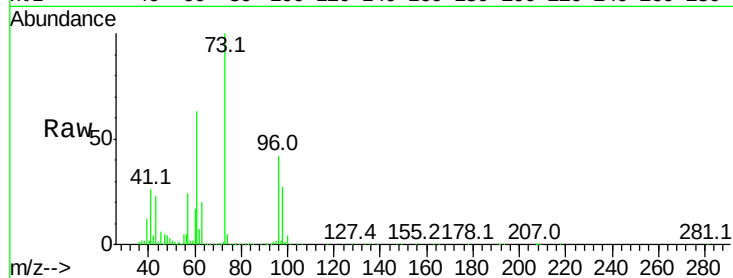


#17  
Methyl tert-butyl Ether  
Concen: 120.70 ug/L  
RT: 5.43 min Scan# 631  
Delta R.T. -0.01 min  
Lab File: VW001880.D  
Acq: 05 Apr 2018 14:50

Instrument :  
MSVOA\_W  
ClientSampled :  
VSTD10085

Tgt Ion: 73 Resp: 1371128

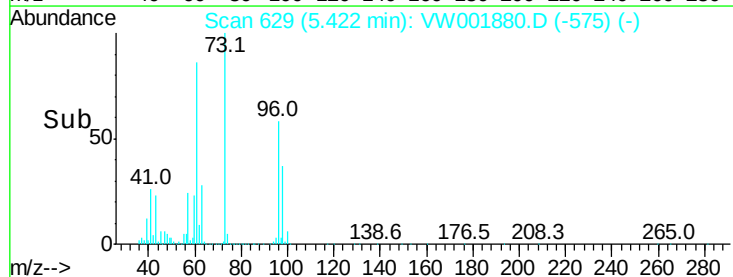
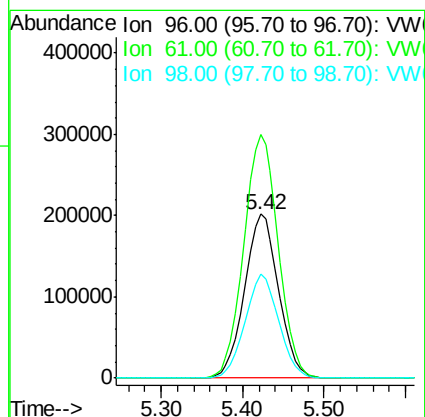
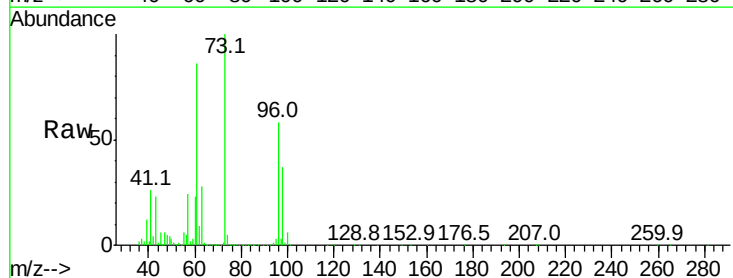
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 43  | 22.7  | 18.6  | 28.0  |
| 57  | 23.5  | 19.4  | 29.0  |

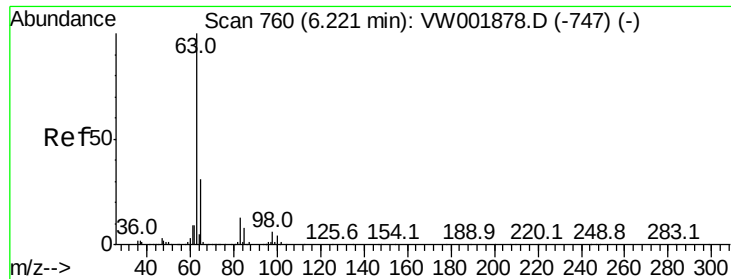


#18  
trans-1,2-Dichloroethene  
Concen: 108.81 ug/L  
RT: 5.42 min Scan# 629  
Delta R.T. -0.00 min  
Lab File: VW001880.D  
Acq: 05 Apr 2018 14:50

Tgt Ion: 96 Resp: 584751

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 148.7 | 104.3 | 193.7 |
| 98  | 63.4  | 44.2  | 82.0  |



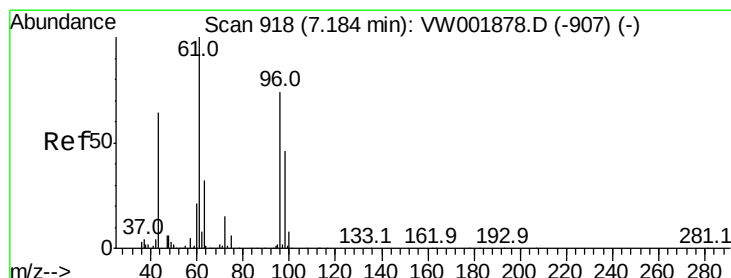
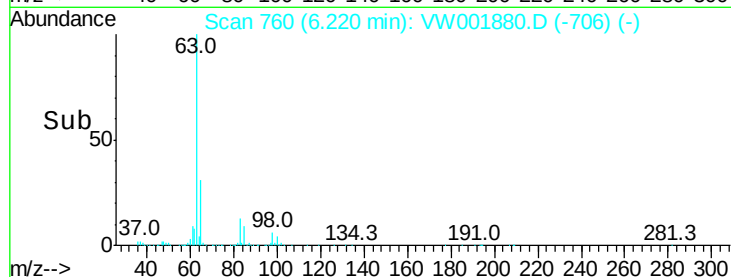
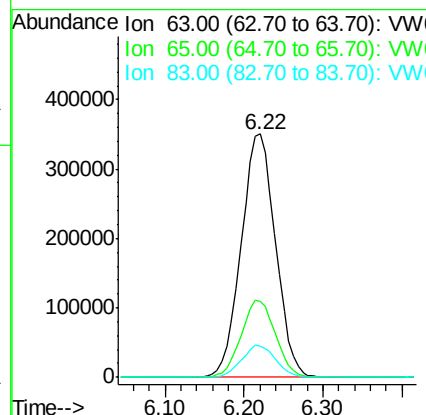
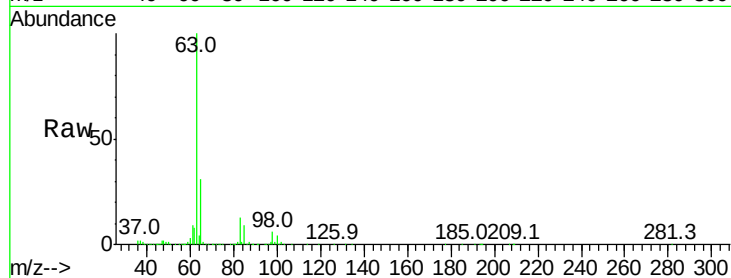


#19  
 1,1-Dichloroethane  
 Concen: 101.66 ug/L  
 RT: 6.22 min Scan# 760  
 Delta R.T. -0.00 min  
 Lab File: VW001880.D  
 Acq: 05 Apr 2018 14:50

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD10085

Tgt Ion: 63 Resp: 1059312  

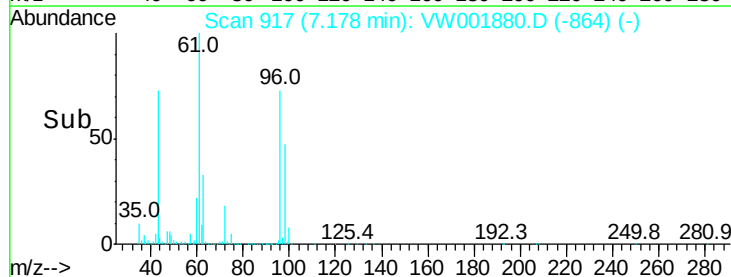
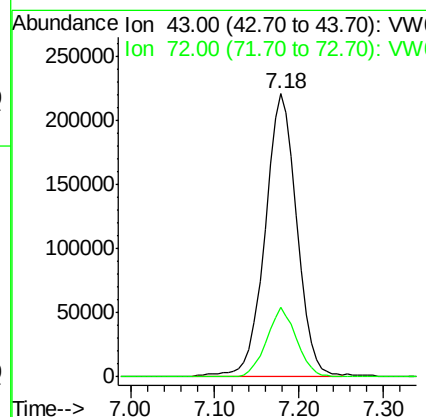
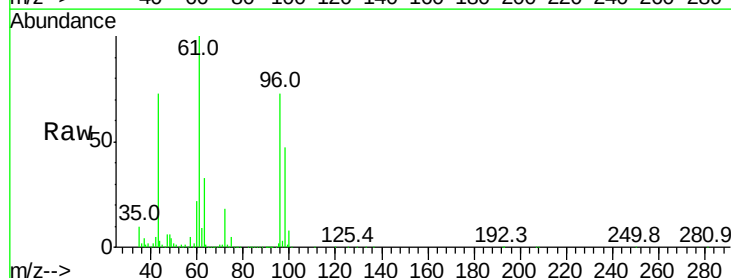
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 31.2  | 21.7  | 40.3  |
| 83  | 13.0  | 8.8   | 16.4  |

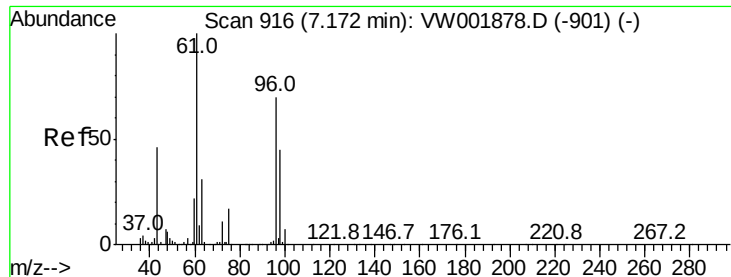


#21  
 2-Butanone  
 Concen: 249.08 ug/L  
 RT: 7.18 min Scan# 917  
 Delta R.T. -0.01 min  
 Lab File: VW001880.D  
 Acq: 05 Apr 2018 14:50

Tgt Ion: 43 Resp: 568404  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 23.3  | 12.2  | 36.6  |



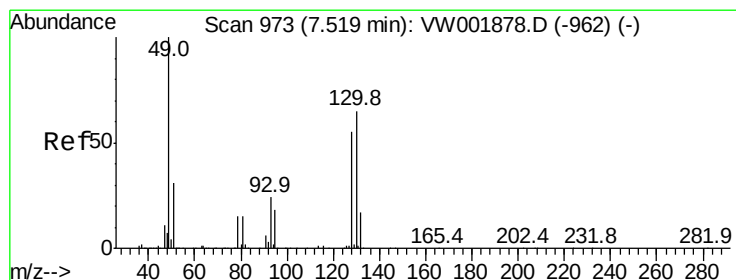
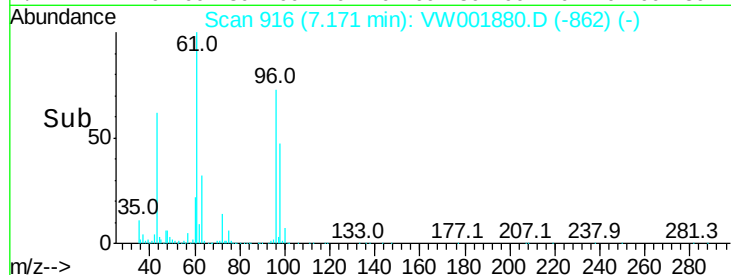
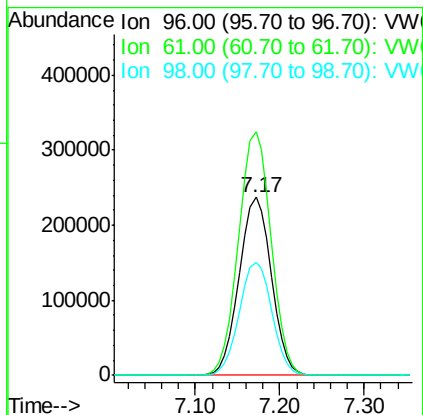
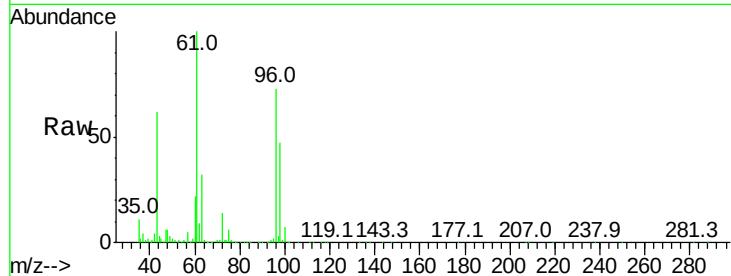


#22

cis-1,2-Dichloroethene  
Concen: 112.07 ug/L  
RT: 7.17 min Scan# 916  
Delta R.T. -0.00 min  
Lab File: VW001880.D  
Acq: 05 Apr 2018 14:50

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10085

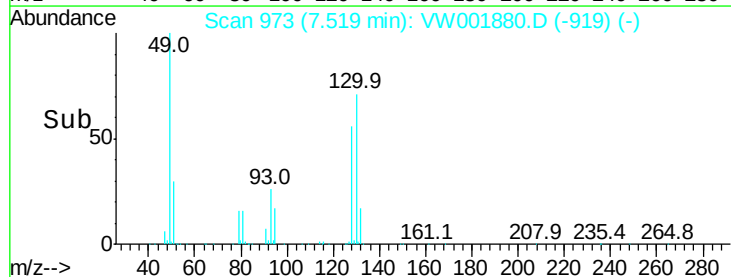
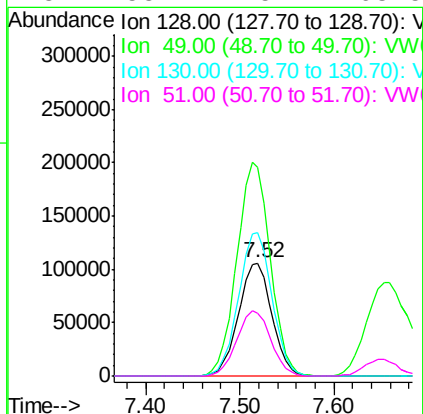
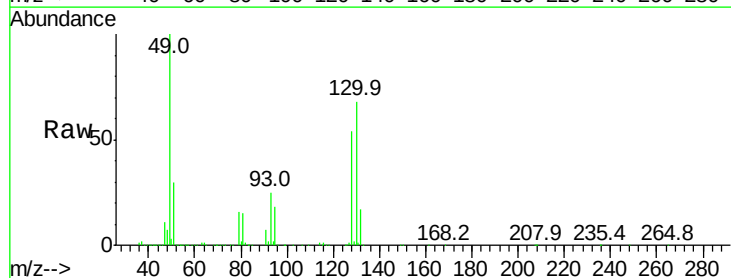
Tgt Ion: 96 Resp: 614314  
Ion Ratio Lower Upper  
96 100  
61 136.9 99.5 184.9  
98 63.7 45.2 84.0

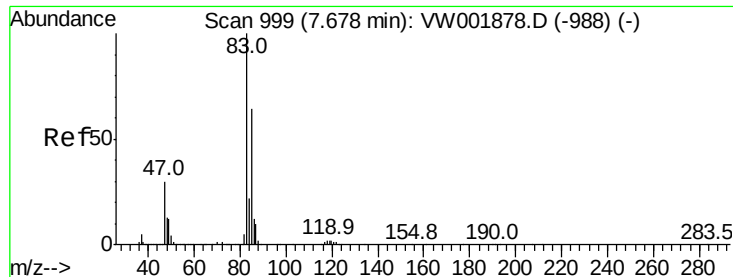


#23

Bromochloromethane  
Concen: 109.11 ug/L  
RT: 7.52 min Scan# 973  
Delta R.T. -0.00 min  
Lab File: VW001880.D  
Acq: 05 Apr 2018 14:50

Tgt Ion: 128 Resp: 262719  
Ion Ratio Lower Upper  
128 100  
49 185.1 127.9 237.5  
130 126.5 82.9 153.9  
51 55.7 45.7 68.5





#25

Chloroform

Concen: 99.00 ug/L

RT: 7.68 min Scan# 999

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

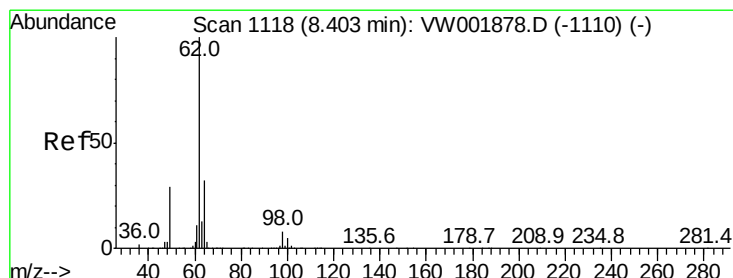
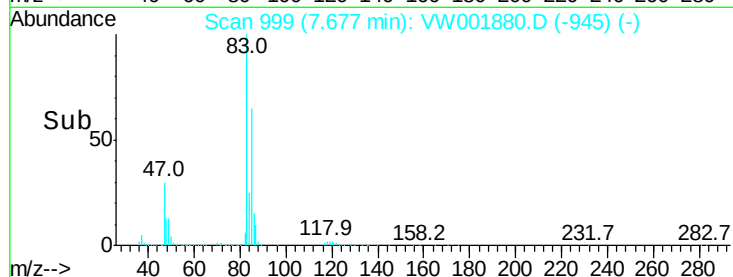
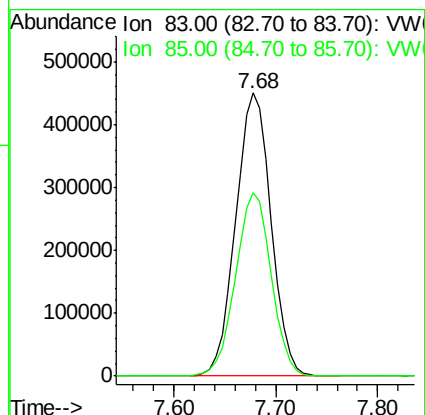
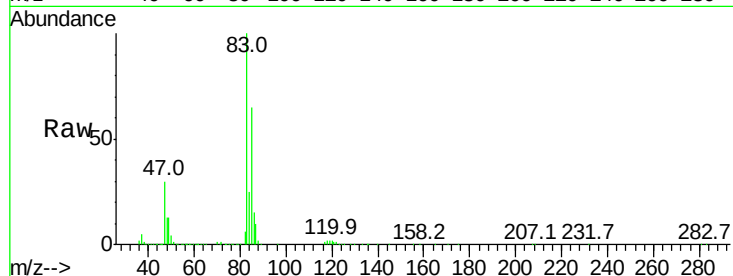
VSTD10085

Tgt Ion: 83 Resp: 1081294

Ion Ratio Lower Upper

83 100

85 65.4 45.6 84.6



#27

1,2-Dichloroethane

Concen: 99.64 ug/L

RT: 8.40 min Scan# 1118

Delta R.T. -0.00 min

Lab File: VW001880.D

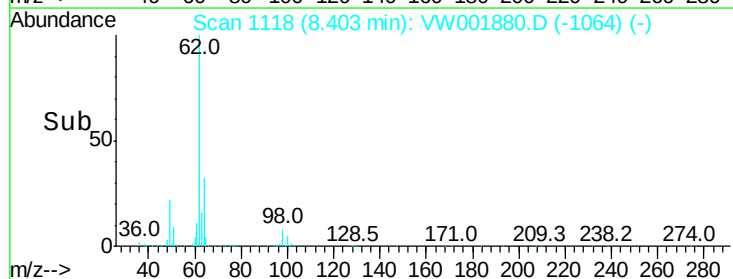
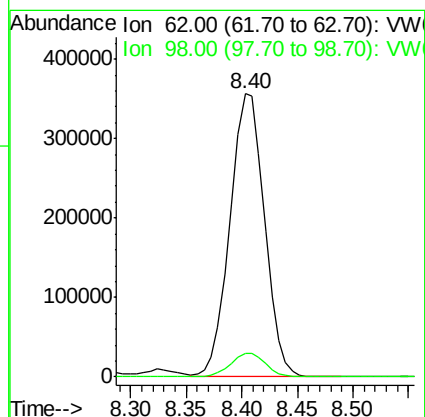
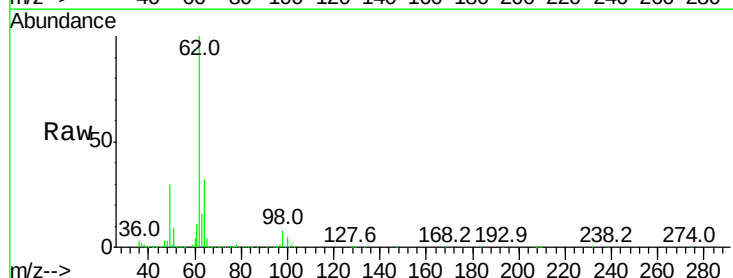
Acq: 05 Apr 2018 14:50

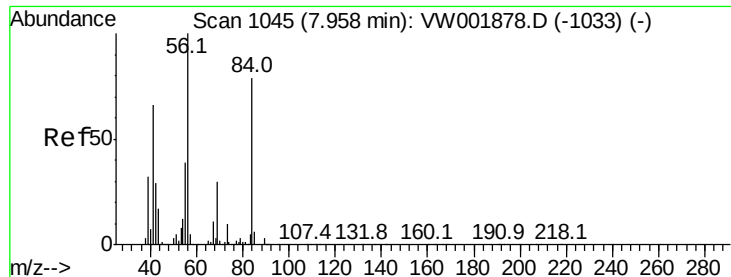
Tgt Ion: 62 Resp: 767903

Ion Ratio Lower Upper

62 100

98 8.2 6.7 10.1

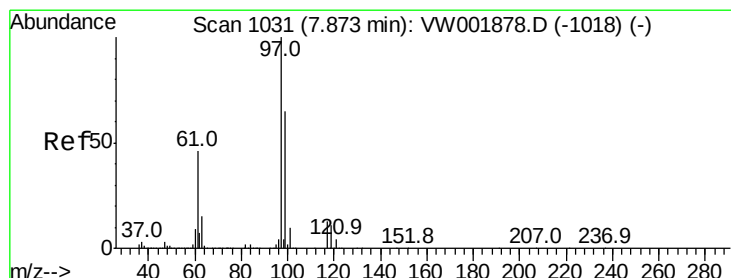
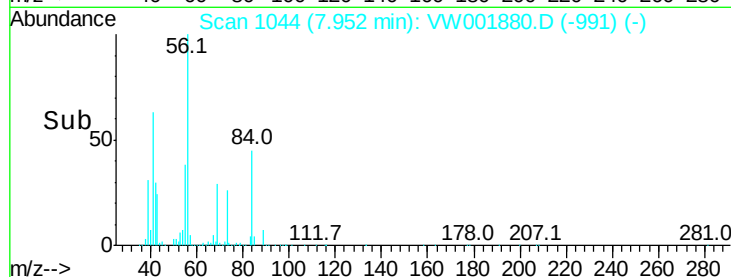
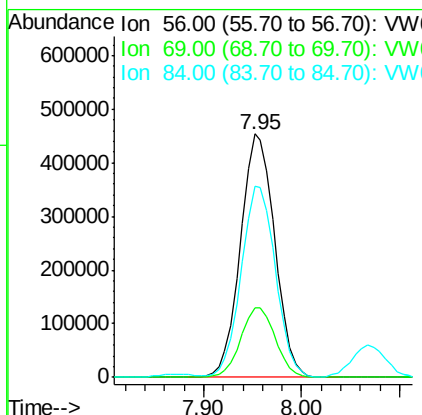
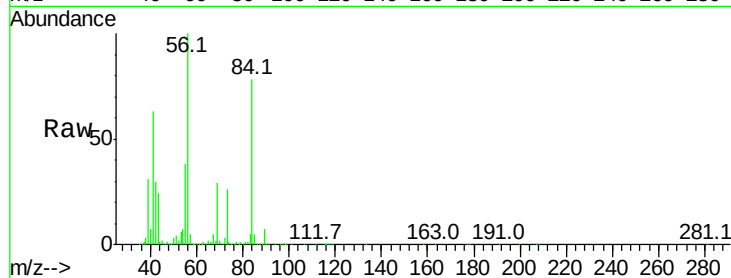




#30  
Cyclohexane  
Concen: 127.06 ug/L  
RT: 7.95 min Scan# 1044  
Delta R.T. -0.01 min  
Lab File: VW001880.D  
Acq: 05 Apr 2018 14:50

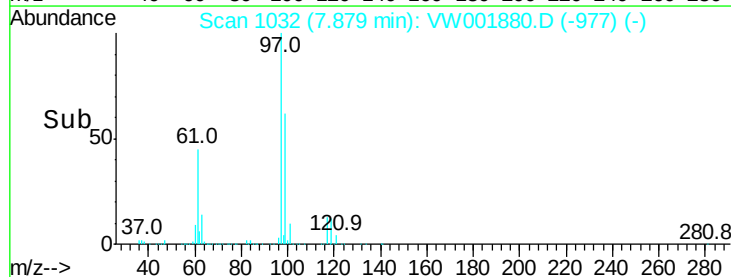
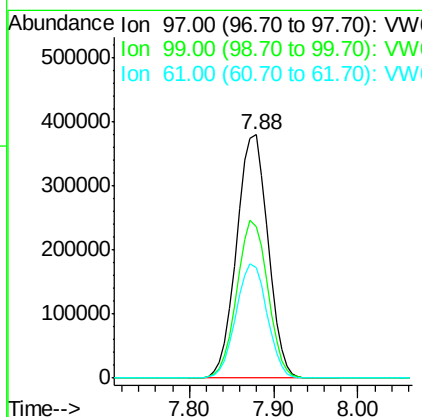
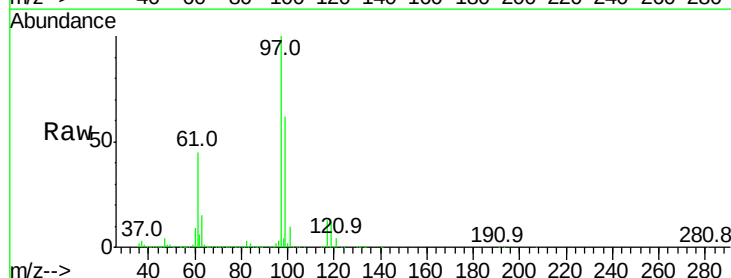
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10085

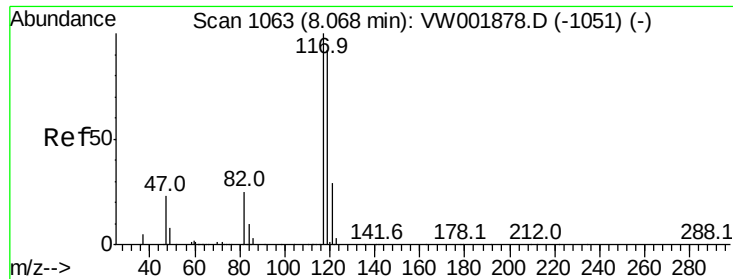
Tgt Ion: 56 Resp: 1103583  
Ion Ratio Lower Upper  
56 100  
69 29.0 22.9 34.3  
84 78.9 64.3 96.5



#31  
1,1,1-Trichloroethane  
Concen: 105.23 ug/L  
RT: 7.88 min Scan# 1032  
Delta R.T. 0.01 min  
Lab File: VW001880.D  
Acq: 05 Apr 2018 14:50

Tgt Ion: 97 Resp: 957327  
Ion Ratio Lower Upper  
97 100  
99 63.8 52.0 78.0  
61 46.8 38.0 57.0





#32

Carbon tetrachloride

Concen: 104.70 ug/L

RT: 8.07 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

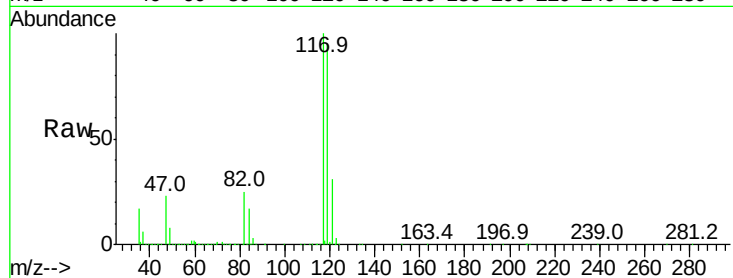
VSTD10085

Tgt Ion:117 Resp: 865988

Ion Ratio Lower Upper

117 100

119 96.1 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

400000

300000

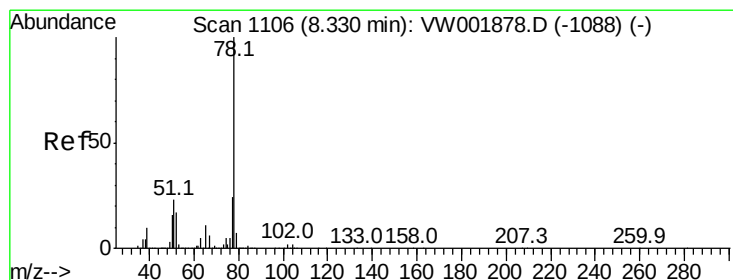
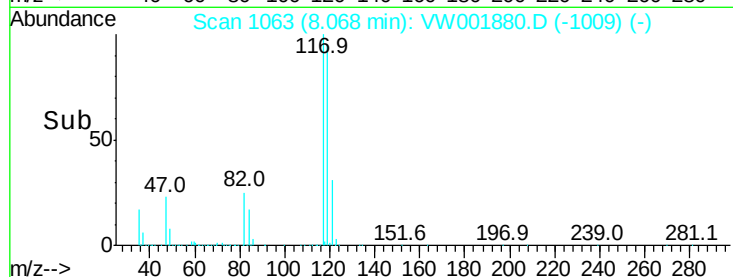
200000

100000

0

8.00 8.10 8.20

Time-->



#34

Benzene

Concen: 104.45 ug/L

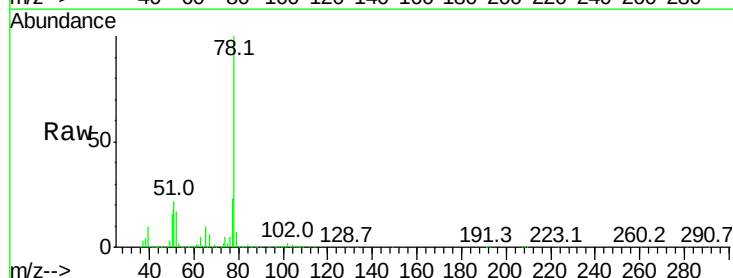
RT: 8.33 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Tgt Ion: 78 Resp: 2339017



Abundance Ion 78.00 (77.70 to 78.70): VW

1200000

1000000

800000

600000

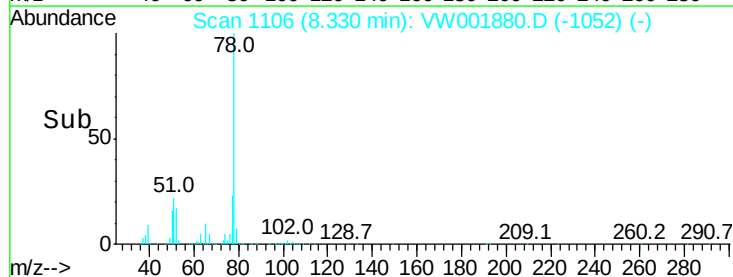
400000

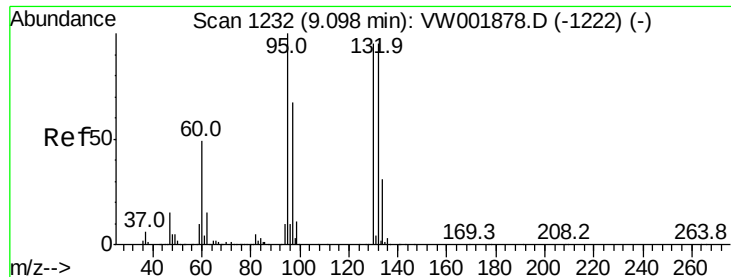
200000

0

8.20 8.30 8.40

Time-->

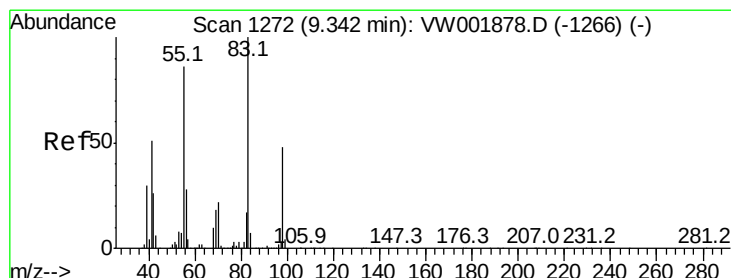
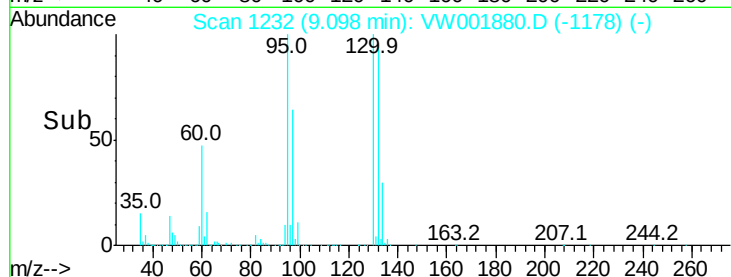
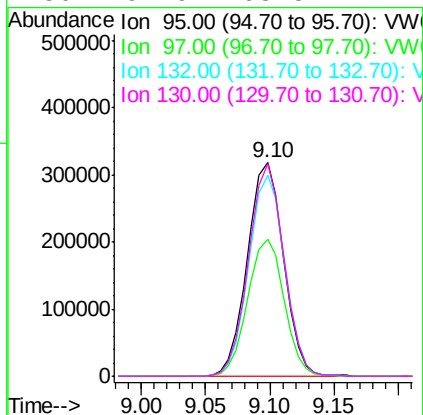
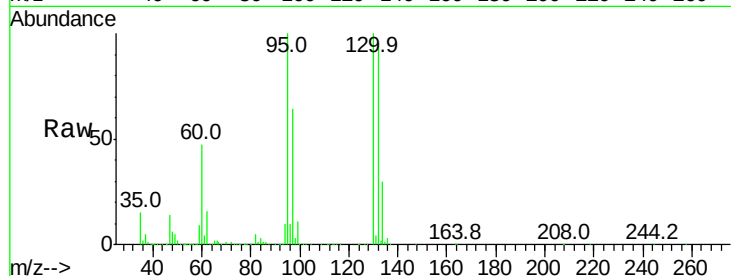




#35  
 Trichloroethene  
 Concen: 102.80 ug/L  
 RT: 9.10 min Scan# 1232  
 Delta R.T. -0.00 min  
 Lab File: VW001880.D  
 Acq: 05 Apr 2018 14:50

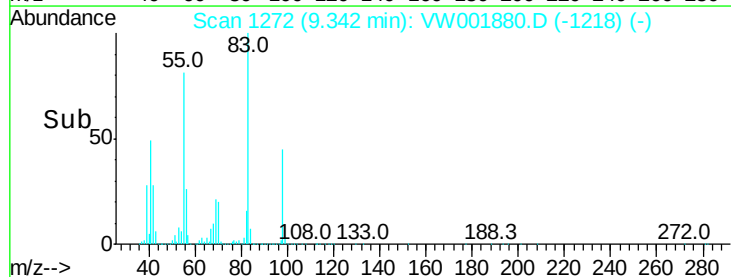
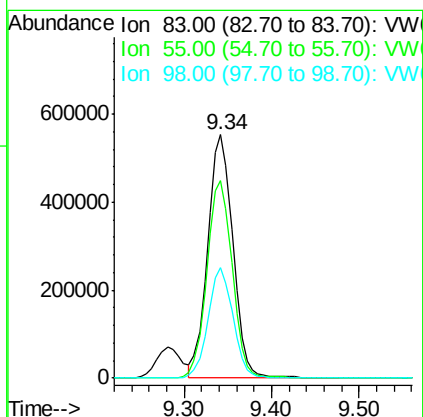
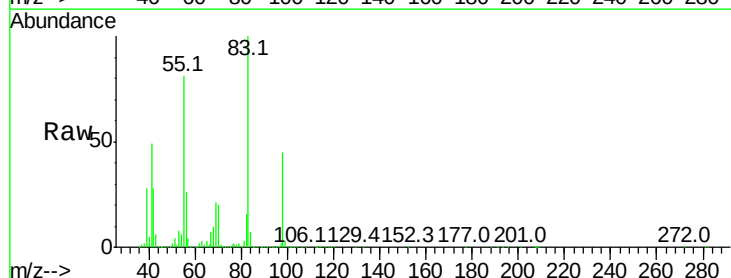
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD10085

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 616063 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 65.0  | 44.9  | 83.3   |
| 132      | 94.2  | 66.2  | 123.0  |
| 130      | 97.9  | 68.5  | 127.1  |

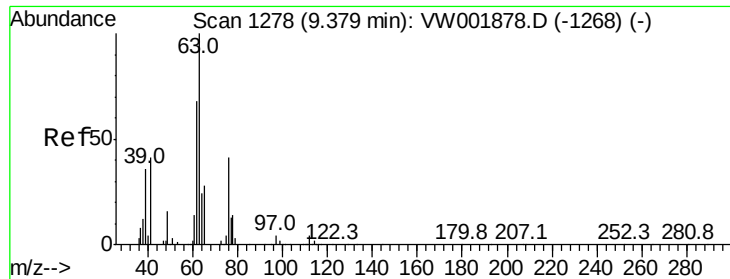


#36  
 Methylcyclohexane  
 Concen: 117.87 ug/L  
 RT: 9.34 min Scan# 1272  
 Delta R.T. -0.00 min  
 Lab File: VW001880.D  
 Acq: 05 Apr 2018 14:50

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 83    | Resp: | 1107544 |
| Ion      | Ratio | Lower | Upper   |
| 83       | 100   |       |         |
| 55       | 82.2  | 67.0  | 100.4   |
| 98       | 44.8  | 35.9  | 53.9    |







#40

1,2-Dichloropropane

Concen: 99.17 ug/L

RT: 9.38 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

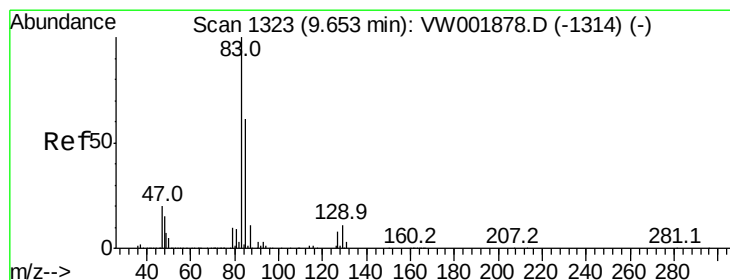
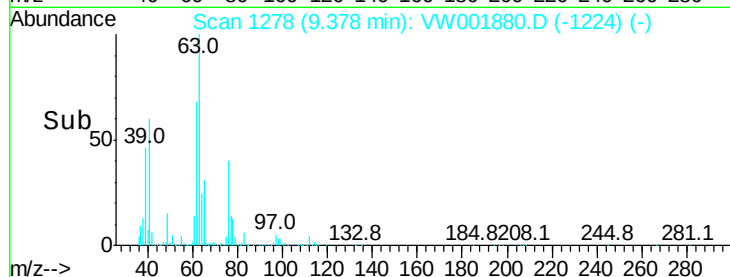
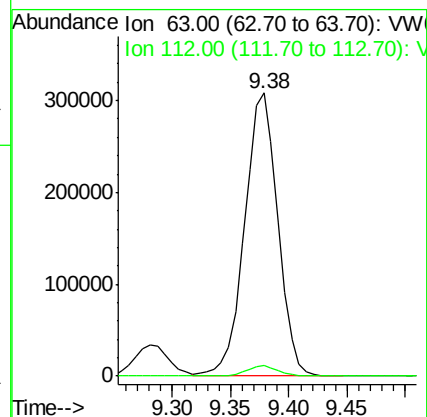
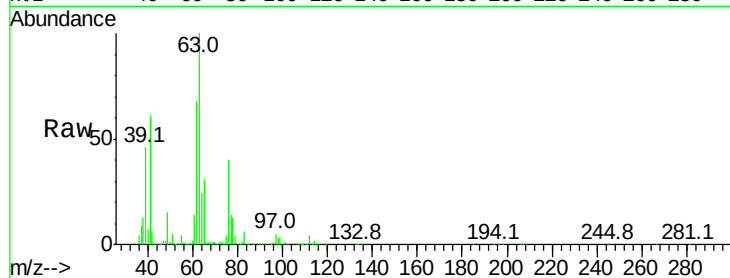
VSTD10085

Tgt Ion: 63 Resp: 612915

Ion Ratio Lower Upper

63 100

112 3.6 2.9 4.3



#41

Bromodichloromethane

Concen: 99.53 ug/L

RT: 9.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

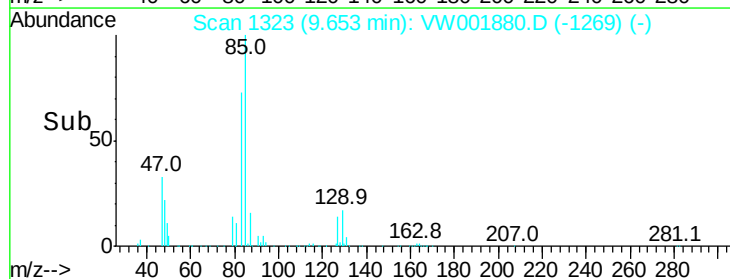
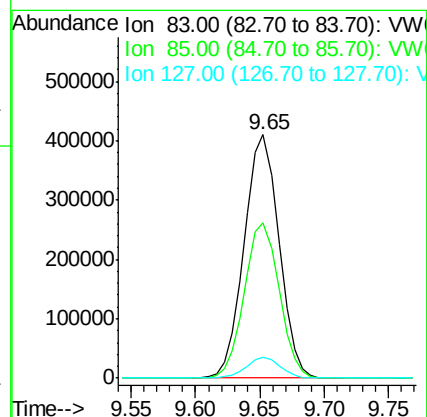
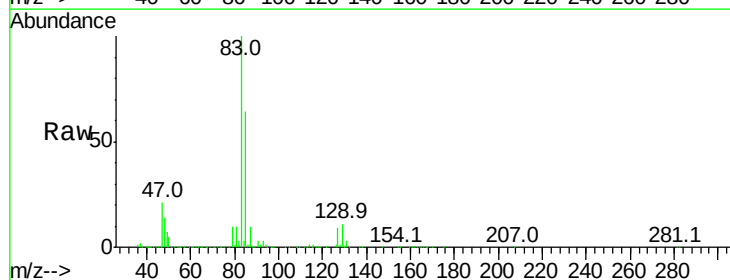
Tgt Ion: 83 Resp: 768049

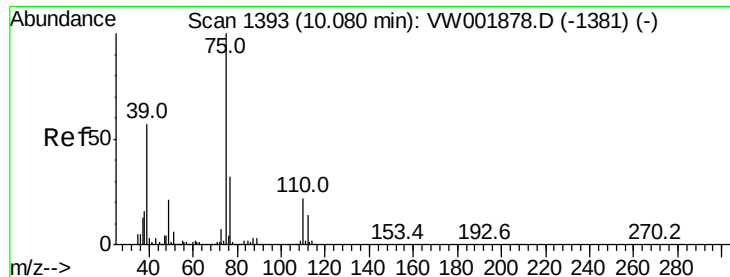
Ion Ratio Lower Upper

83 100

85 63.8 42.7 79.3

127 8.6 6.5 9.7





#42

cis-1,3-Dichloropropene

Concen: 116.31 ug/L

RT: 10.08 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

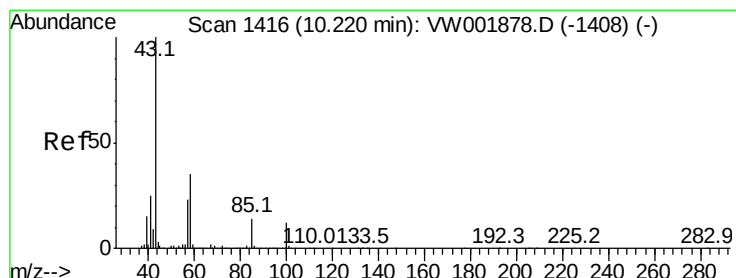
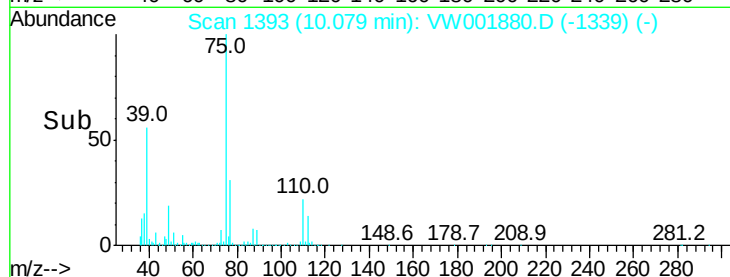
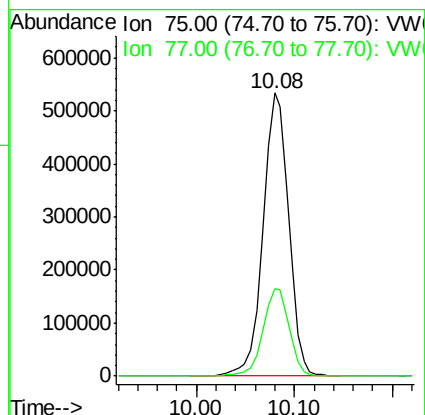
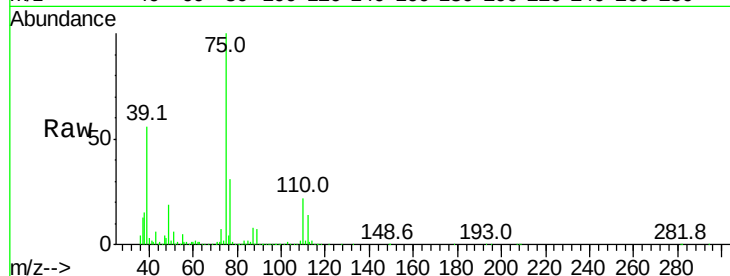
VSTD10085

Tgt Ion: 75 Resp: 967001

Ion Ratio Lower Upper

75 100

77 31.1 22.7 42.1



#43

4-Methyl-2-pentanone

Concen: 285.55 ug/L

RT: 10.22 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

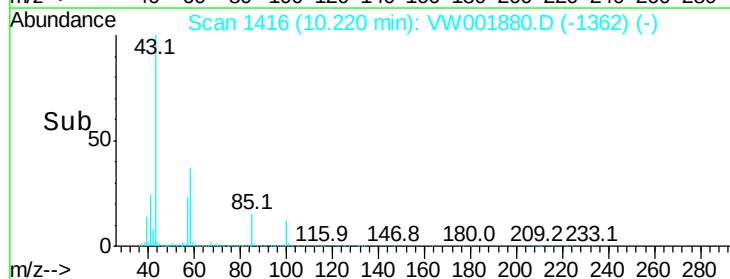
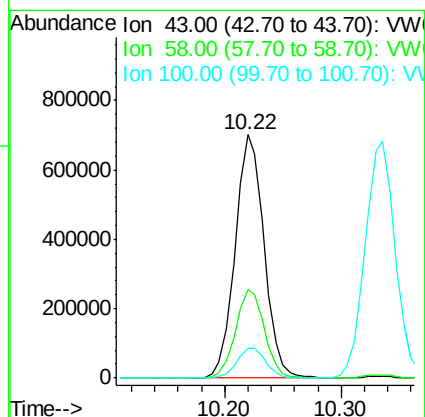
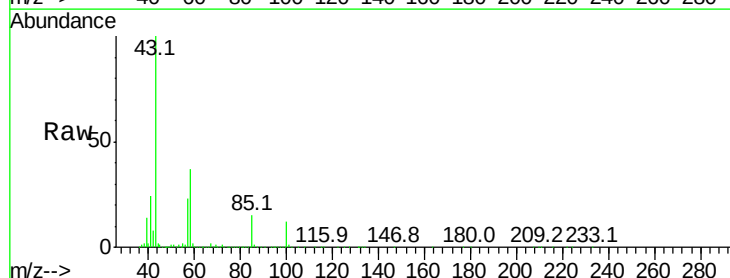
Tgt Ion: 43 Resp: 1216381

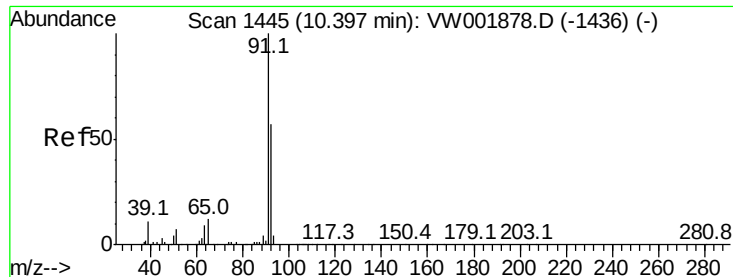
Ion Ratio Lower Upper

43 100

58 36.3 28.1 42.1

100 12.5 9.6 14.4





#44

Toluene

Concen: 111.81 ug/L

RT: 10.40 min Scan# 1445

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

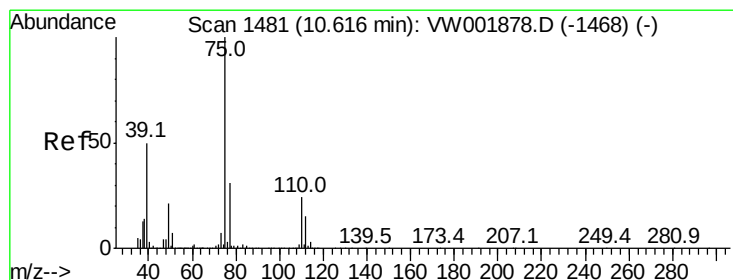
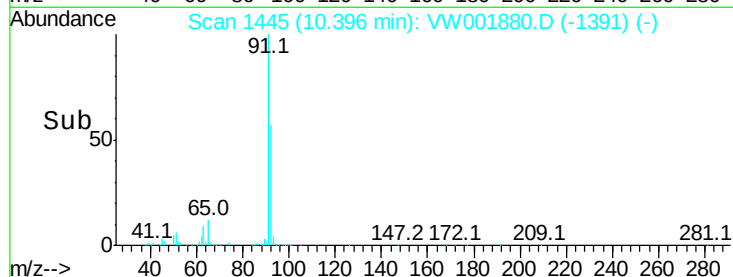
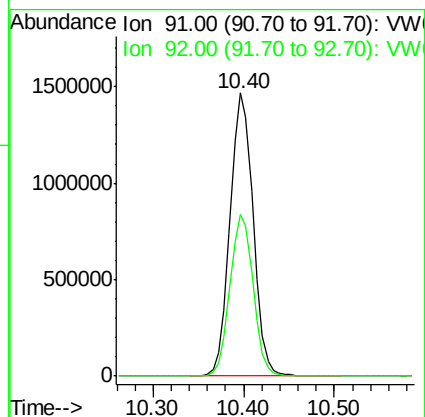
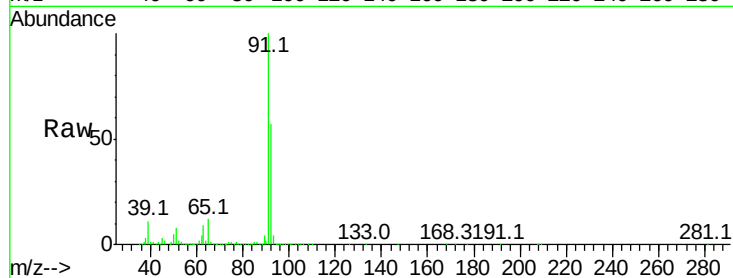
VSTD10085

Tgt Ion: 91 Resp: 2593200

Ion Ratio Lower Upper

91 100

92 57.2 40.0 74.2



#45

trans-1,3-Dichloropropene

Concen: 115.08 ug/L

RT: 10.62 min Scan# 1481

Delta R.T. -0.00 min

Lab File: VW001880.D

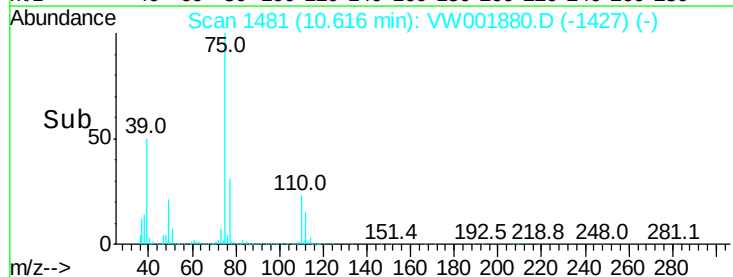
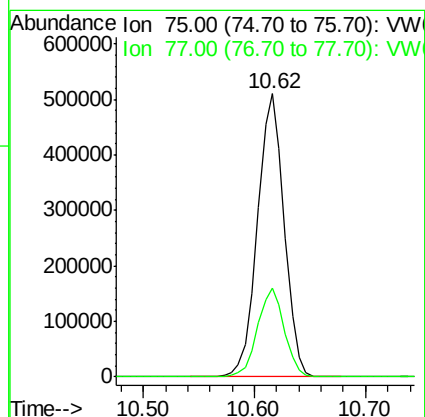
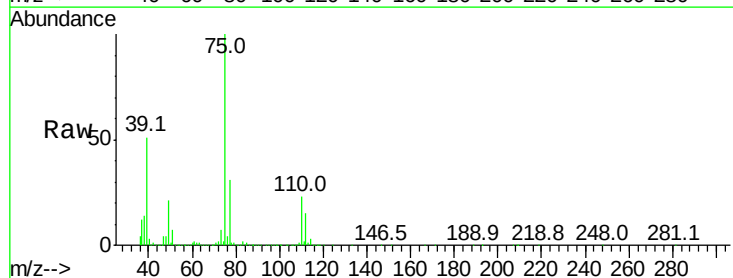
Acq: 05 Apr 2018 14:50

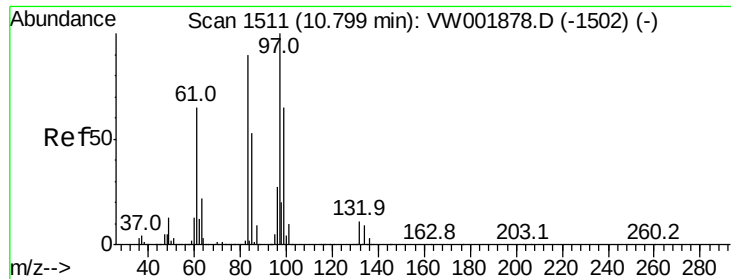
Tgt Ion: 75 Resp: 854804

Ion Ratio Lower Upper

75 100

77 31.4 21.8 40.6

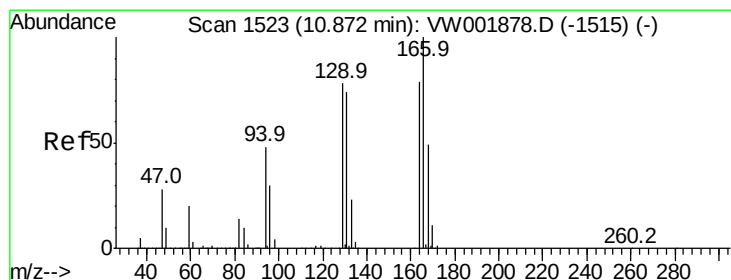
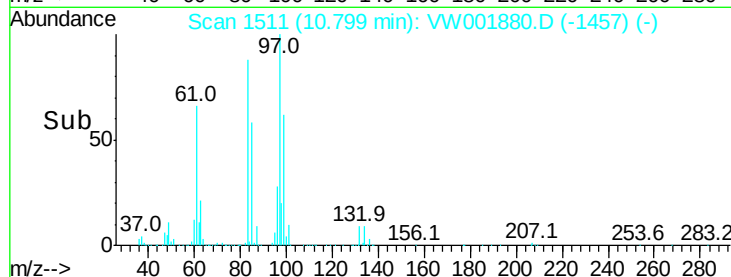
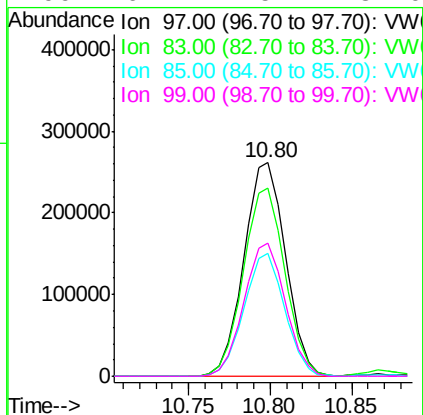
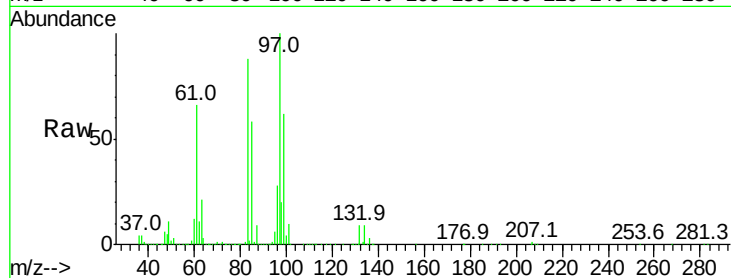




#46  
 1,1,2-Trichloroethane  
 Concen: 101.61 ug/L  
 RT: 10.80 min Scan# 1511  
 Delta R.T. -0.00 min  
 Lab File: VW001880.D  
 Acq: 05 Apr 2018 14:50

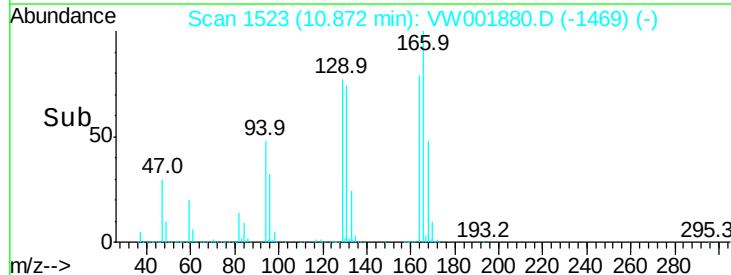
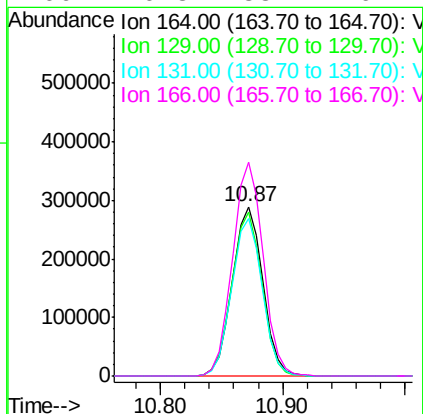
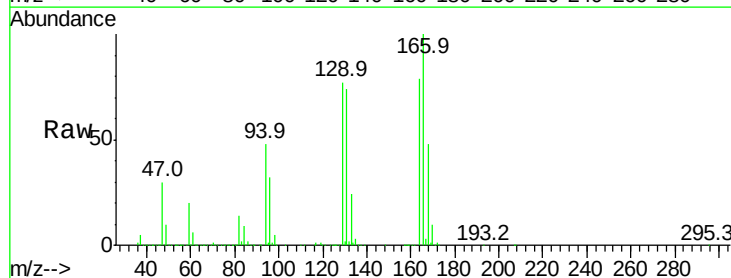
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD10085

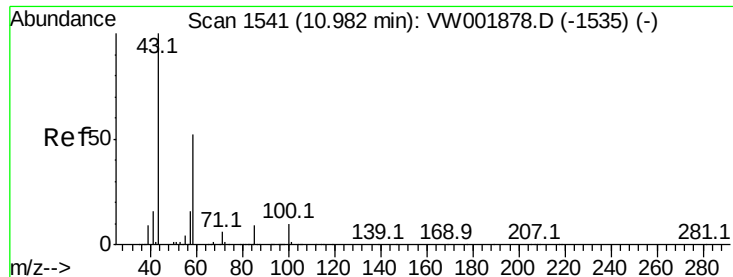
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 465923 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 88.1  | 62.6  | 116.3  |
| 85       | 57.7  | 37.2  | 69.2   |
| 99       | 62.2  | 45.2  | 84.0   |



#47  
 Tetrachloroethene  
 Concen: 106.64 ug/L  
 RT: 10.87 min Scan# 1523  
 Delta R.T. -0.00 min  
 Lab File: VW001880.D  
 Acq: 05 Apr 2018 14:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 496446 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 97.0  | 68.7  | 127.7  |
| 131      | 93.1  | 65.7  | 122.1  |
| 166      | 126.3 | 88.7  | 164.7  |

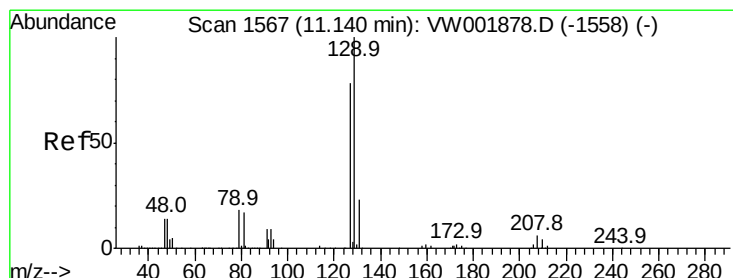
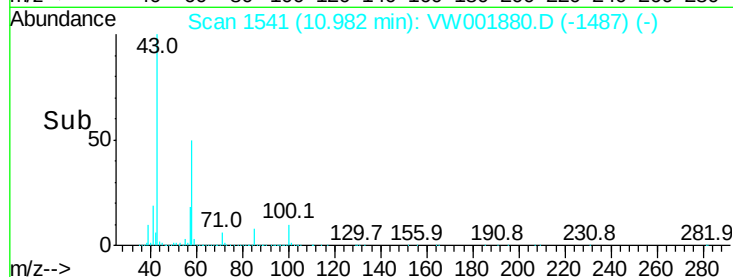
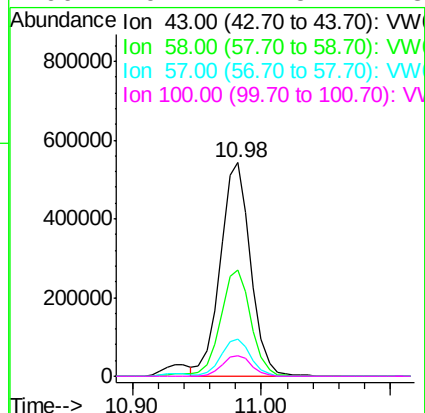
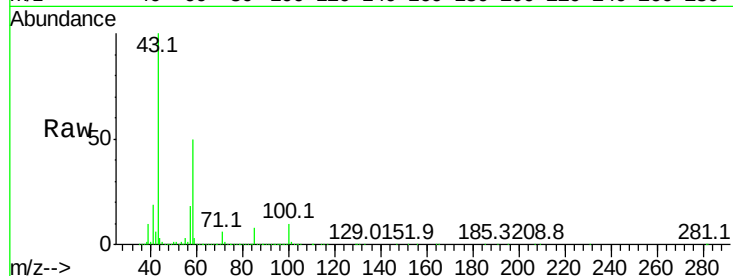




#49  
2-Hexanone  
Concen: 288.66 ug/L  
RT: 10.98 min Scan# 1541  
Delta R.T. -0.00 min  
Lab File: VW001880.D  
Acq: 05 Apr 2018 14:50

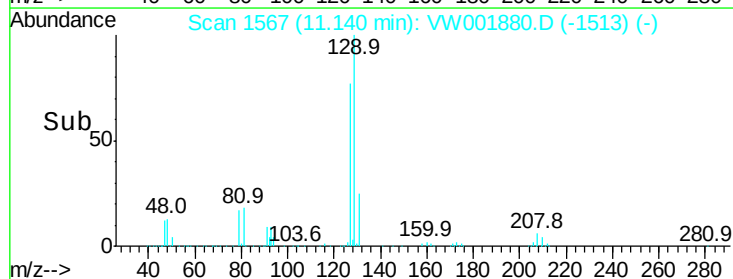
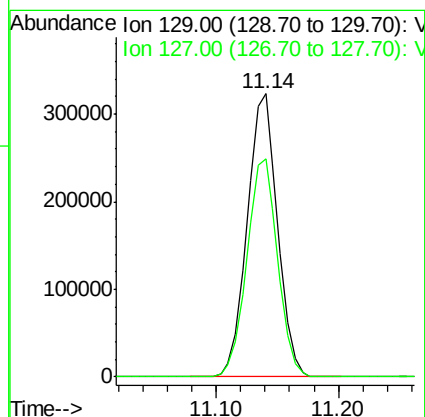
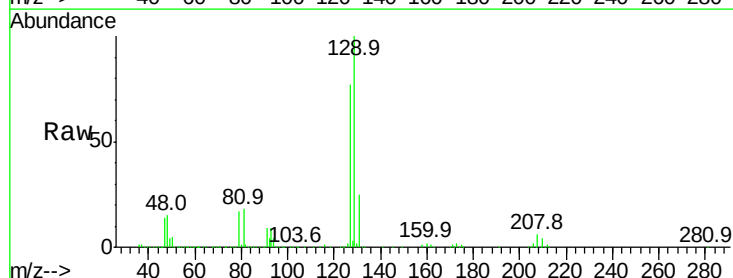
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10085

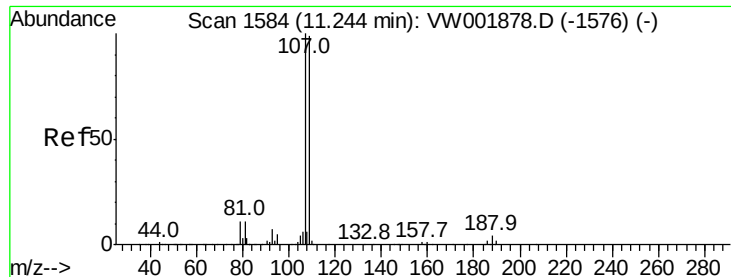
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 892925 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 49.6  | 40.5  | 60.7   |
| 57       | 17.2  | 13.8  | 20.6   |
| 100      | 9.7   | 7.5   | 11.3   |



#50  
Dibromochloromethane  
Concen: 105.17 ug/L  
RT: 11.14 min Scan# 1567  
Delta R.T. -0.00 min  
Lab File: VW001880.D  
Acq: 05 Apr 2018 14:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 556292 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 77.2  | 54.8  | 101.8  |

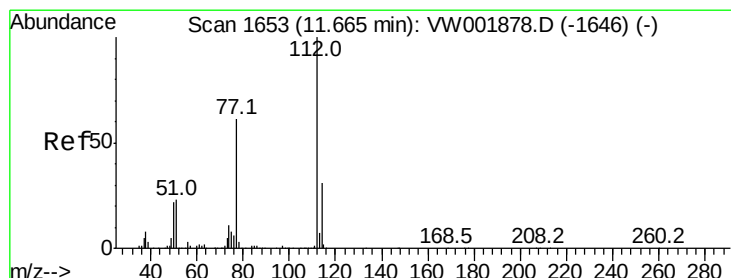
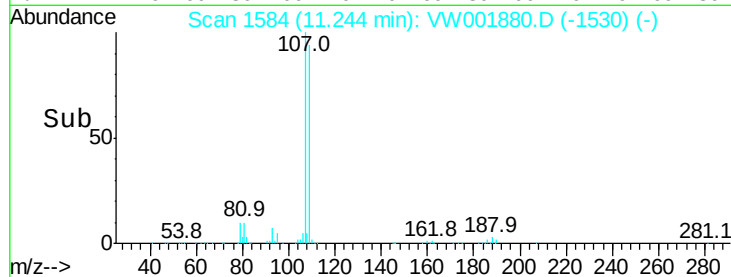
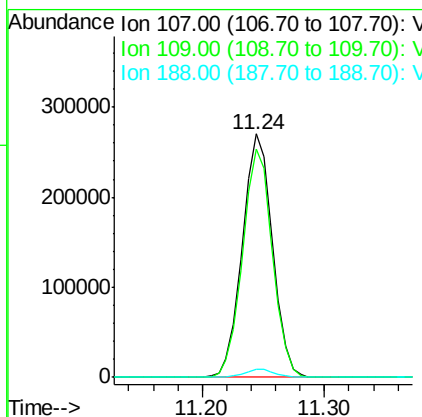
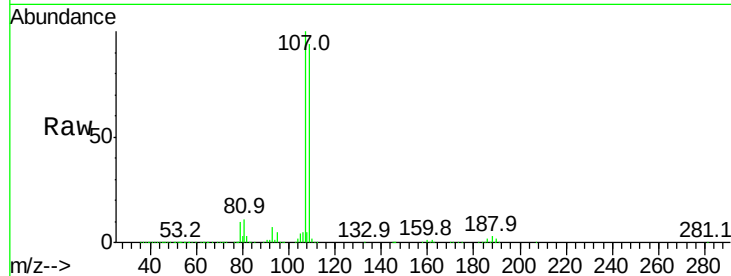




#51  
 1,2-Dibromoethane  
 Concen: 112.49 ug/L  
 RT: 11.24 min Scan# 1584  
 Delta R.T. -0.00 min  
 Lab File: VW001880.D  
 Acq: 05 Apr 2018 14:50

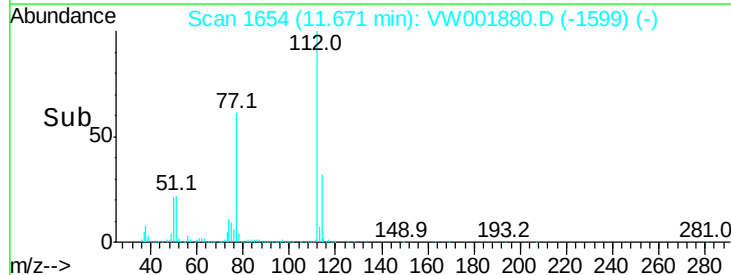
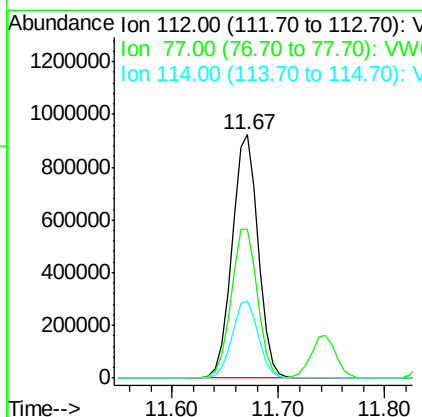
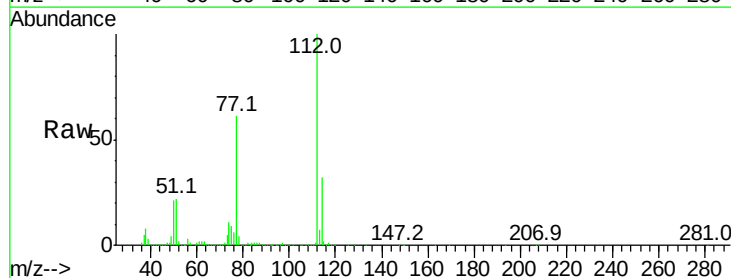
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD10085

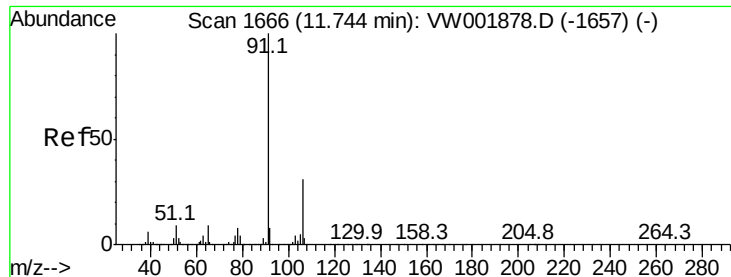
Tgt Ion:107 Resp: 461090  
 Ion Ratio Lower Upper  
 107 100  
 109 93.6 69.0 128.2  
 188 3.4 3.0 4.4



#52  
 Chlorobenzene  
 Concen: 103.94 ug/L  
 RT: 11.67 min Scan# 1654  
 Delta R.T. 0.01 min  
 Lab File: VW001880.D  
 Acq: 05 Apr 2018 14:50

Tgt Ion:112 Resp: 1576537  
 Ion Ratio Lower Upper  
 112 100  
 77 61.1 49.4 74.0  
 114 31.8 21.8 40.6





#53

Ethylbenzene

Concen: 116.15 ug/L

RT: 11.74 min Scan# 1666

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

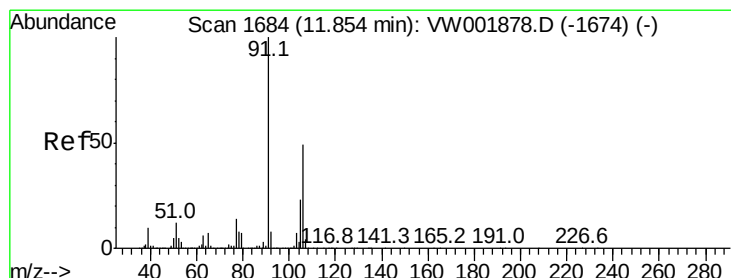
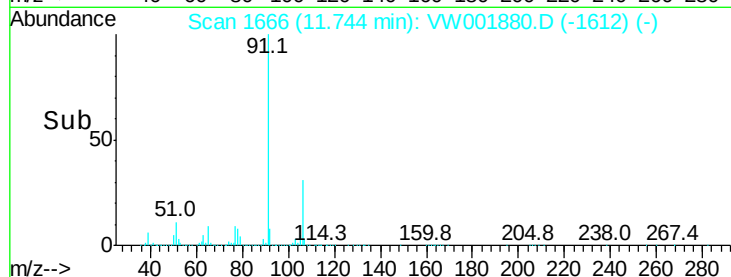
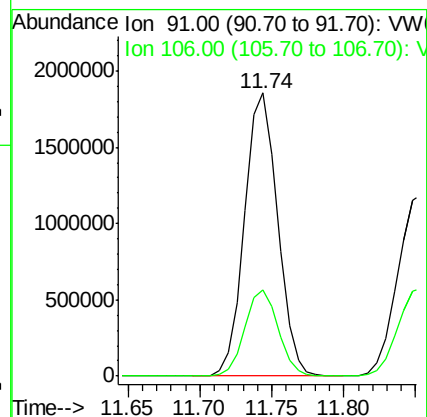
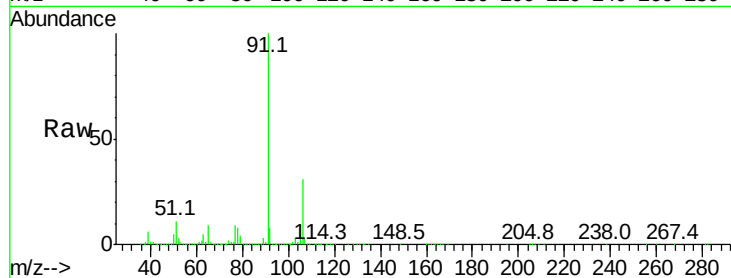
VSTD10085

Tgt Ion: 91 Resp: 2956840

Ion Ratio Lower Upper

91 100

106 30.5 21.6 40.0



#54

m,p-Xylene

Concen: 117.18 ug/L

RT: 11.85 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW001880.D

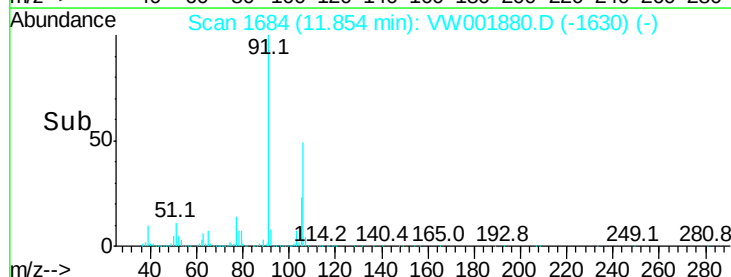
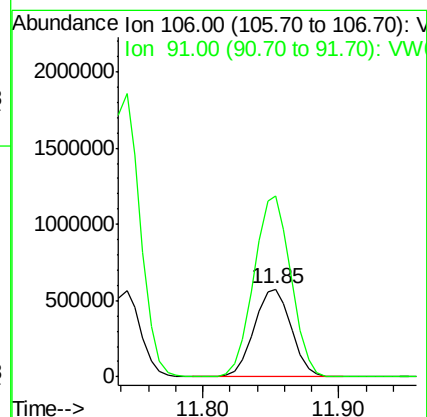
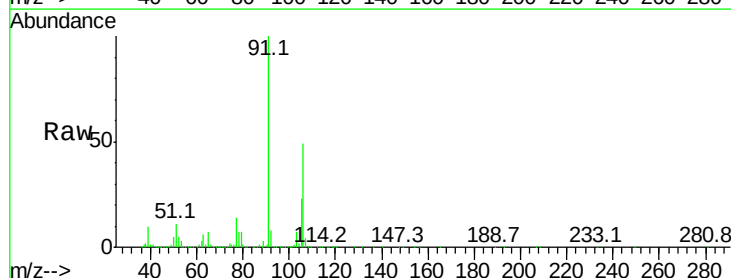
Acq: 05 Apr 2018 14:50

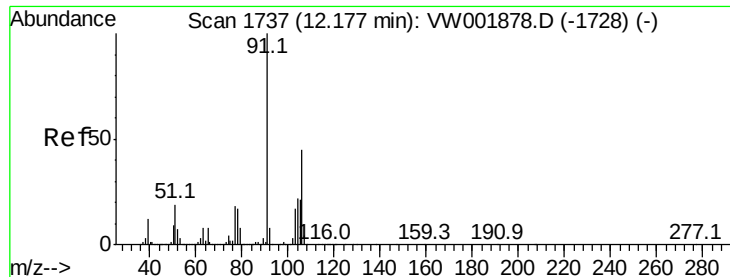
Tgt Ion: 106 Resp: 1094623

Ion Ratio Lower Upper

106 100

91 205.8 142.9 265.3

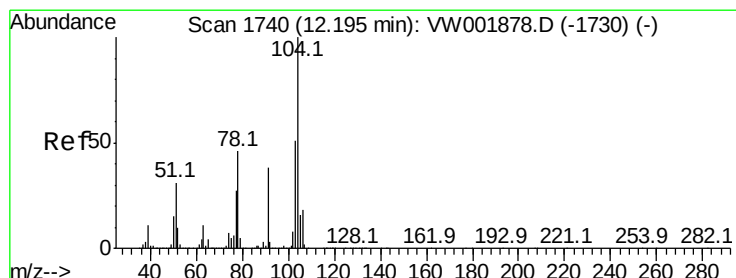
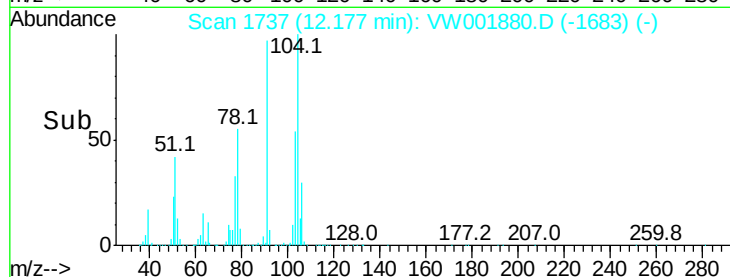
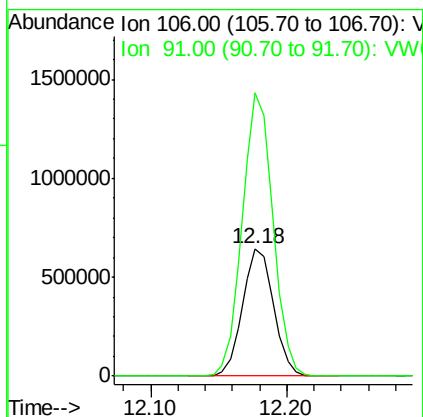
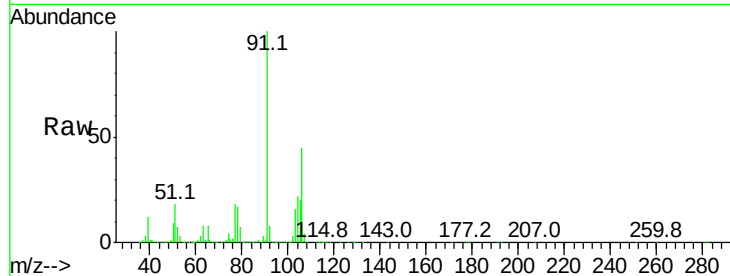




#55  
o-xylene  
Concen: 118.13 ug/L  
RT: 12.18 min Scan# 1737  
Delta R.T. -0.00 min  
Lab File: VW001880.D  
Acq: 05 Apr 2018 14:50

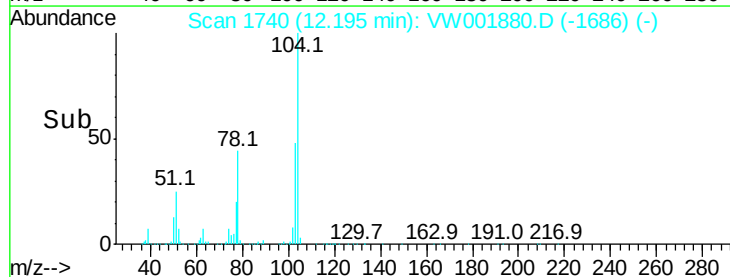
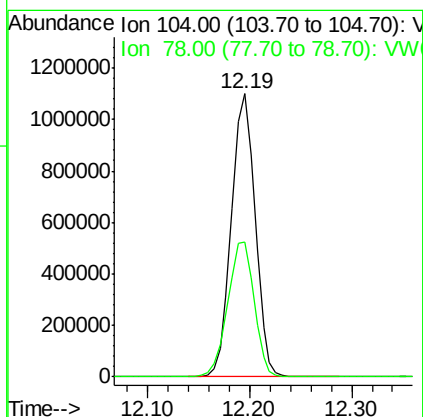
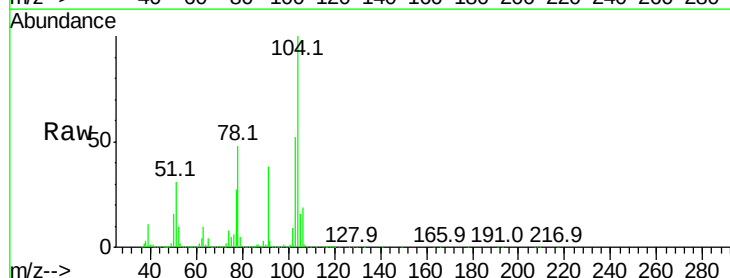
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10085

Tgt Ion:106 Resp: 1032767  
Ion Ratio Lower Upper  
106 100  
91 222.1 155.2 288.2

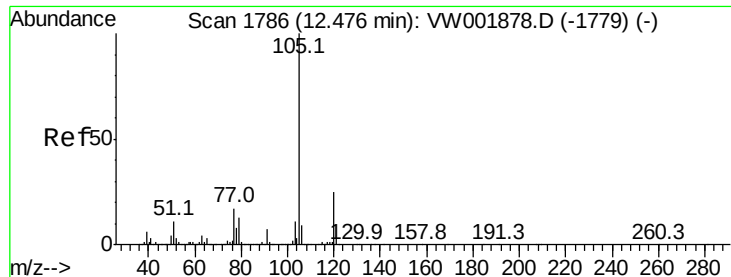


#56  
Styrene  
Concen: 116.08 ug/L  
RT: 12.19 min Scan# 1740  
Delta R.T. -0.00 min  
Lab File: VW001880.D  
Acq: 05 Apr 2018 14:50

Tgt Ion:104 Resp: 1771196  
Ion Ratio Lower Upper  
104 100  
78 47.5 32.1 59.5







#57

Isopropylbenzene

Concen: 121.35 ug/L

RT: 12.48 min Scan# 1786

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10085

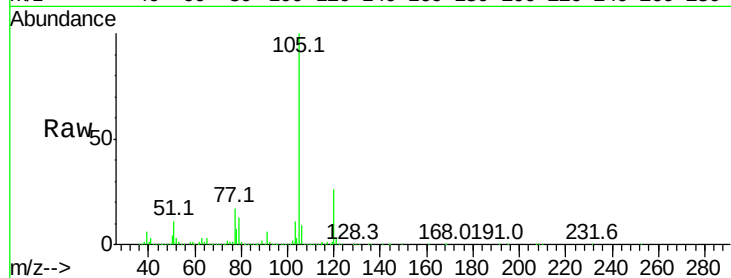
Tgt Ion:105 Resp: 2842557

Ion Ratio Lower Upper

105 100

120 26.0 20.7 31.1

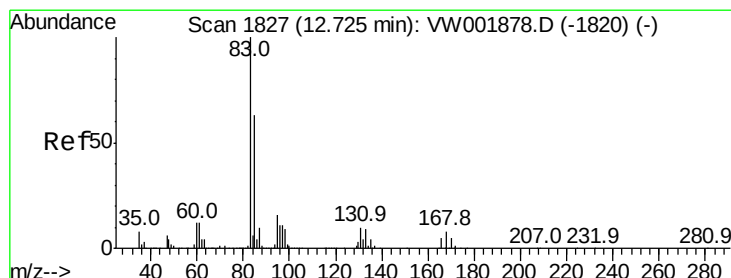
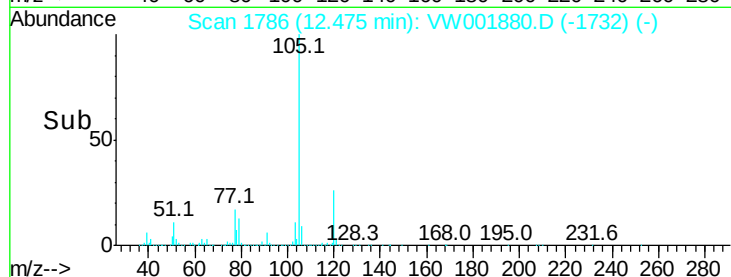
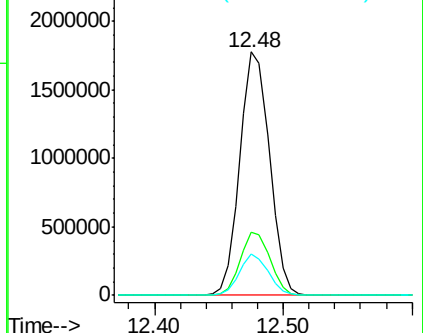
77 16.4 13.4 20.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 111.22 ug/L

RT: 12.73 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

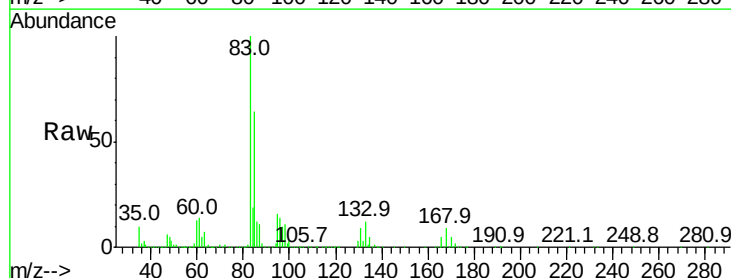
Tgt Ion: 83 Resp: 654993

Ion Ratio Lower Upper

83 100

85 64.2 44.0 81.6

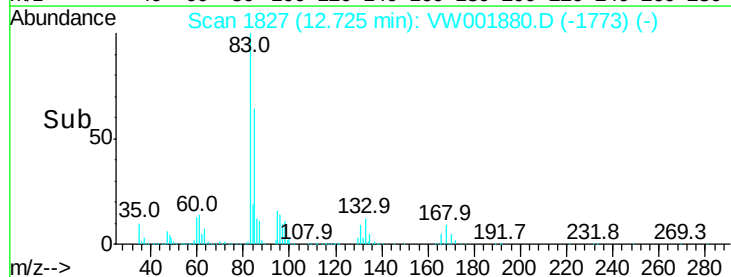
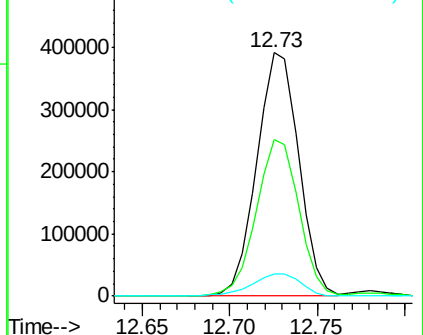
131 9.3 8.0 12.0

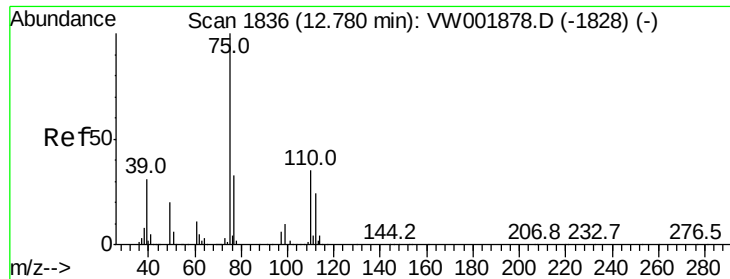


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 114.87 ug/L

RT: 12.78 min Scan# 1836

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

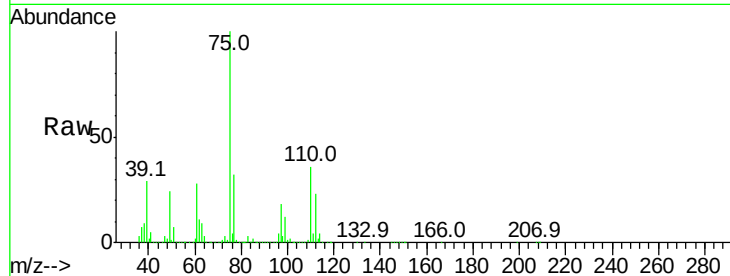
VSTD10085

Tgt Ion: 75 Resp: 523369

Ion Ratio Lower Upper

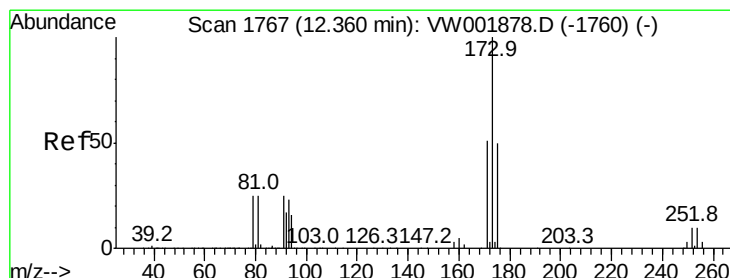
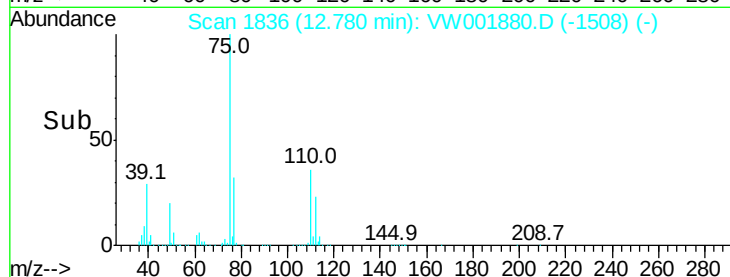
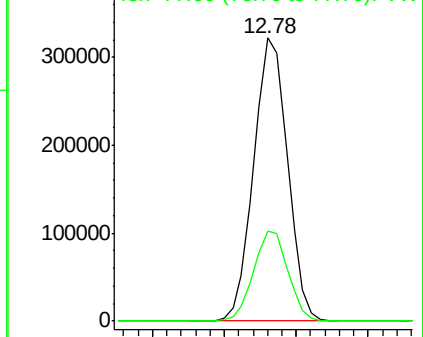
75 100

77 32.2 26.5 39.7



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#62

Bromoform

Concen: 110.26 ug/L

RT: 12.36 min Scan# 1767

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

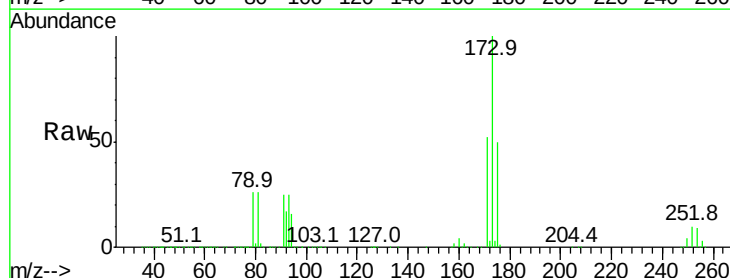
Tgt Ion: 173 Resp: 360850

Ion Ratio Lower Upper

173 100

175 49.5 39.6 59.4

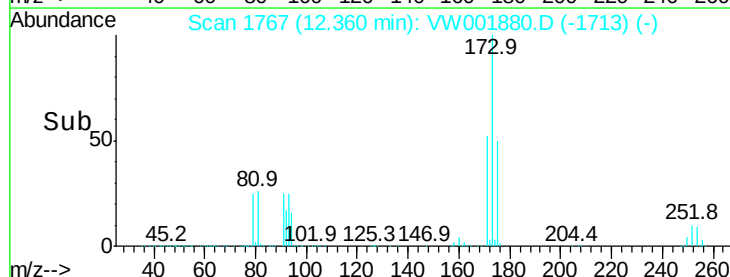
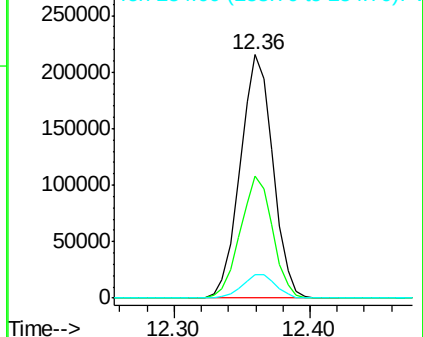
254 9.9 8.1 12.1

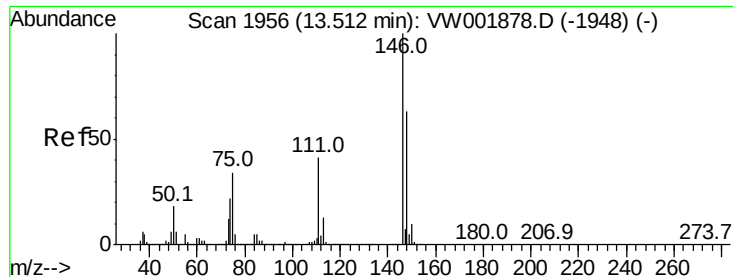


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#63

1,3-Dichlorobenzene

Concen: 108.91 ug/L

RT: 13.51 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10085

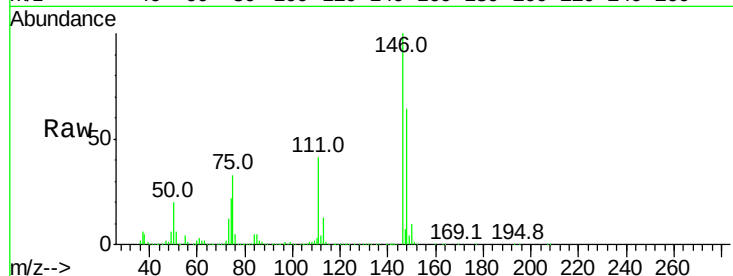
Tgt Ion:146 Resp: 1234211

Ion Ratio Lower Upper

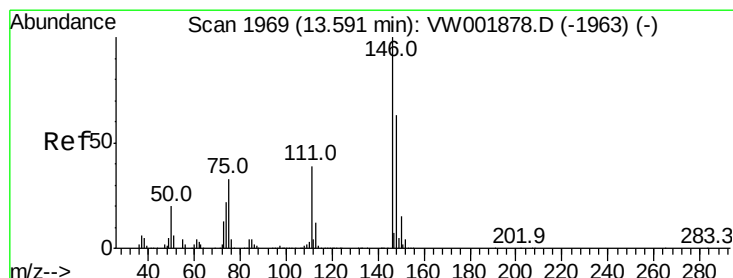
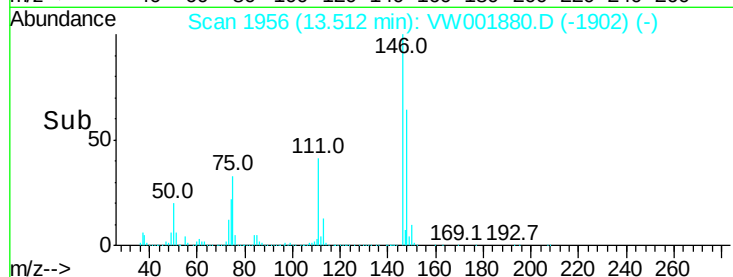
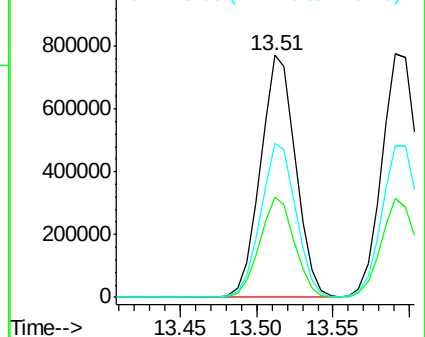
146 100

111 41.3 28.8 53.4

148 63.7 44.4 82.4



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 101.93 ug/L

RT: 13.59 min Scan# 1969

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

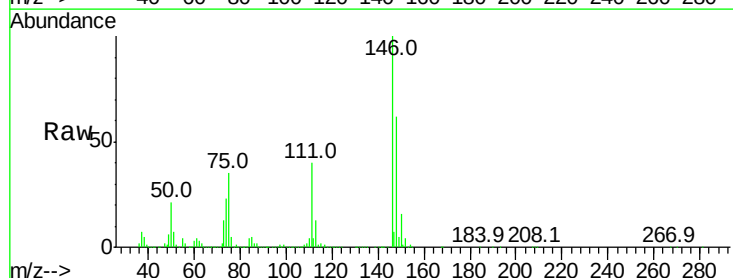
Tgt Ion:146 Resp: 1264895

Ion Ratio Lower Upper

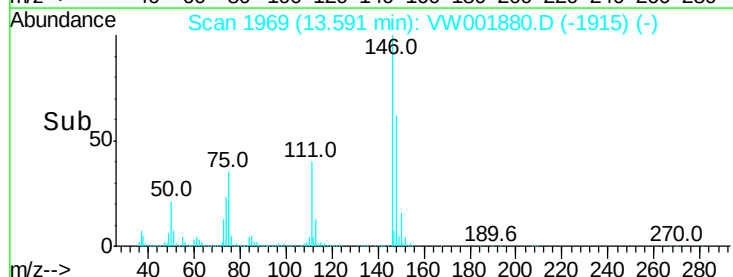
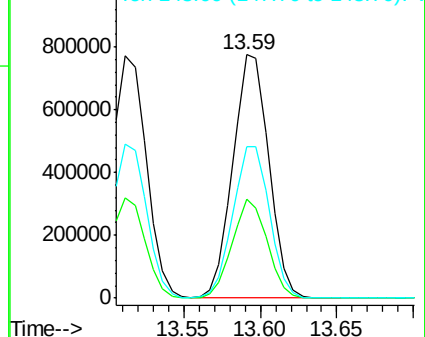
146 100

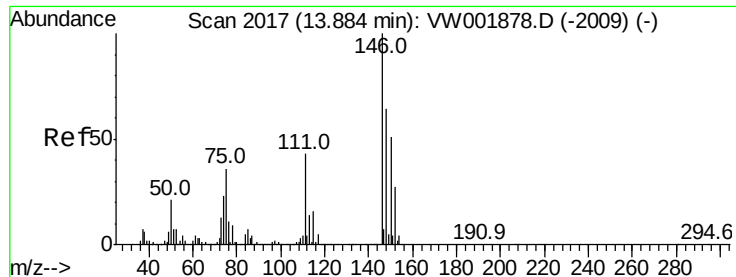
111 40.4 27.6 51.2

148 62.0 44.3 82.3



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V

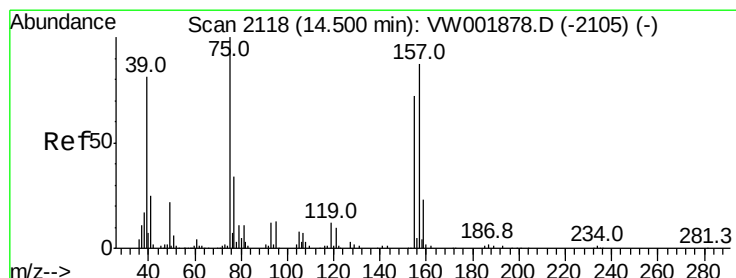
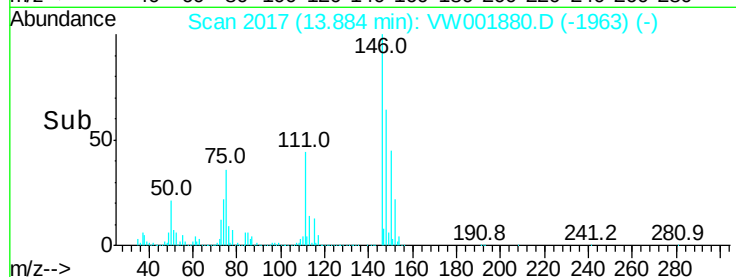
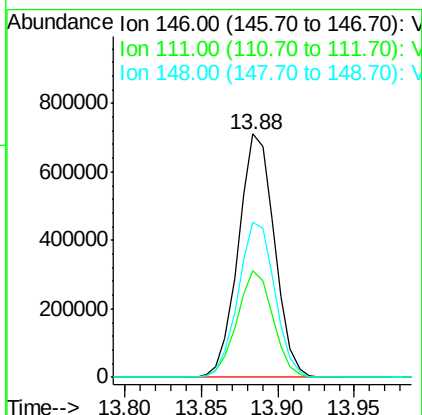
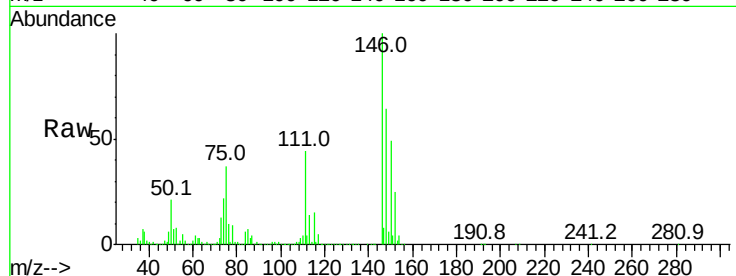




#65  
 1,2-Dichlorobenzene  
 Concen: 103.12 ug/L  
 RT: 13.88 min Scan# 2017  
 Delta R.T. -0.00 min  
 Lab File: VW001880.D  
 Acq: 05 Apr 2018 14:50

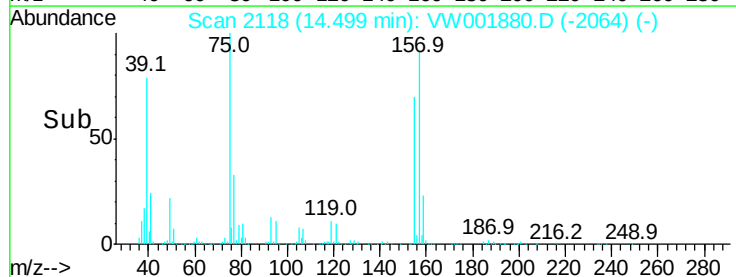
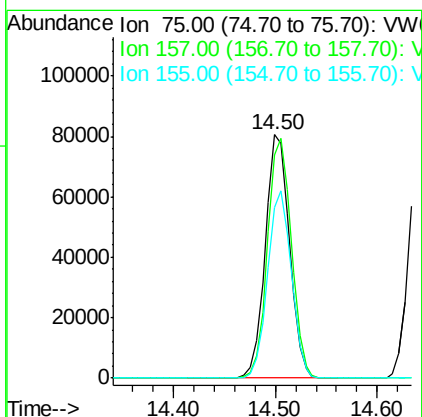
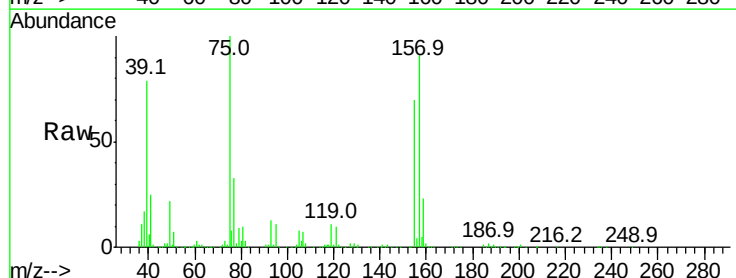
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD10085

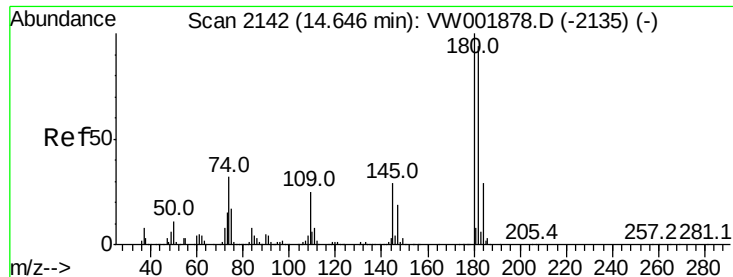
Tgt Ion:146 Resp: 1160762  
 Ion Ratio Lower Upper  
 146 100  
 111 43.6 34.4 51.6  
 148 63.9 51.2 76.8



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 117.96 ug/L  
 RT: 14.50 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VW001880.D  
 Acq: 05 Apr 2018 14:50

Tgt Ion: 75 Resp: 132118  
 Ion Ratio Lower Upper  
 75 100  
 157 91.4 69.5 104.3  
 155 69.9 57.4 86.0

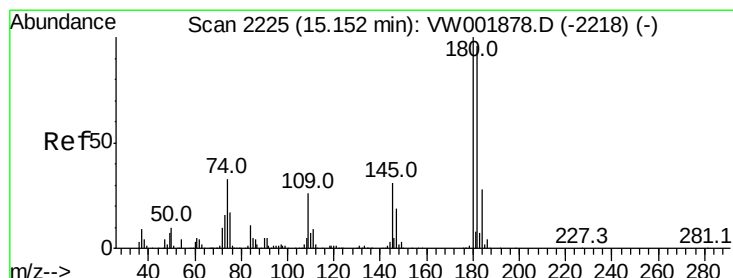
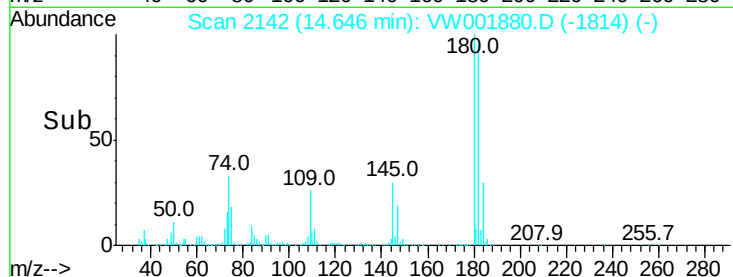
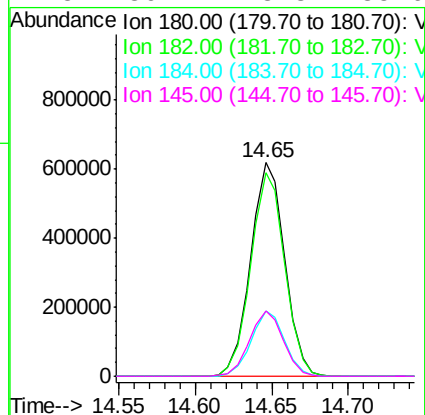
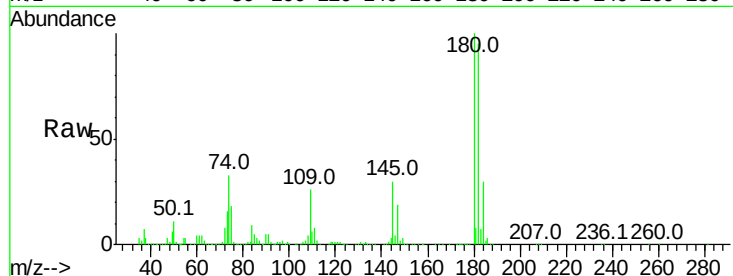




#67  
 1,3,5-Trichlorobenzene  
 Concen: 108.61 ug/L  
 RT: 14.65 min Scan# 2142  
 Delta R.T. -0.00 min  
 Lab File: VW001880.D  
 Acq: 05 Apr 2018 14:50

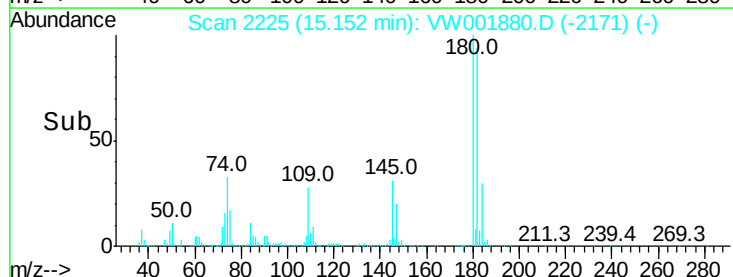
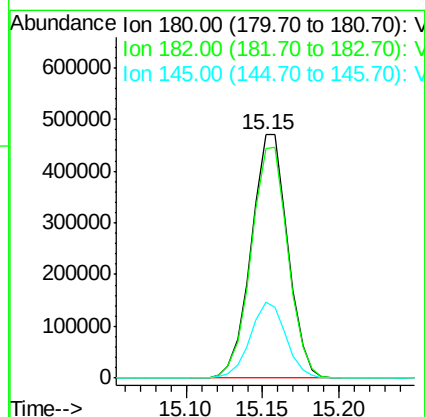
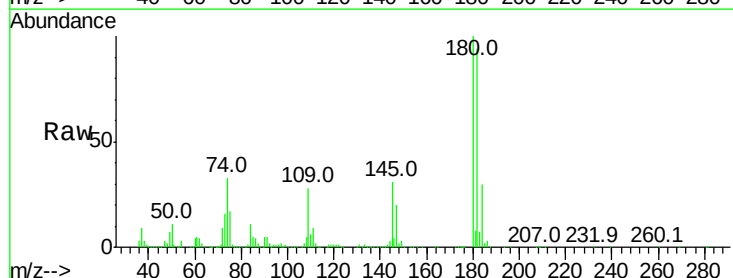
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD10085

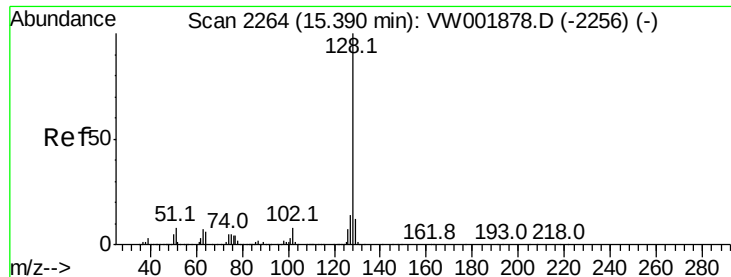
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 956749 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 94.9  | 75.9  | 113.9  |
| 184      | 30.0  | 24.1  | 36.1   |
| 145      | 30.1  | 23.8  | 35.6   |



#68  
 1,2,4-trichlorobenzene  
 Concen: 114.10 ug/L  
 RT: 15.15 min Scan# 2225  
 Delta R.T. -0.00 min  
 Lab File: VW001880.D  
 Acq: 05 Apr 2018 14:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 784043 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.5  | 77.1  | 115.7  |
| 145      | 30.5  | 24.6  | 36.8   |





#69

Naphthalene

Concen: 138.82 ug/L

RT: 15.39 min Scan# 2264

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10085

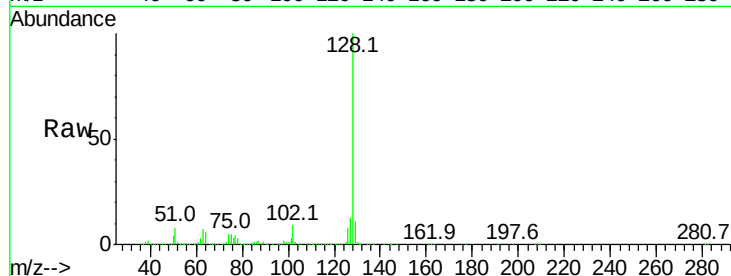
Tgt Ion:128 Resp: 1873565

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

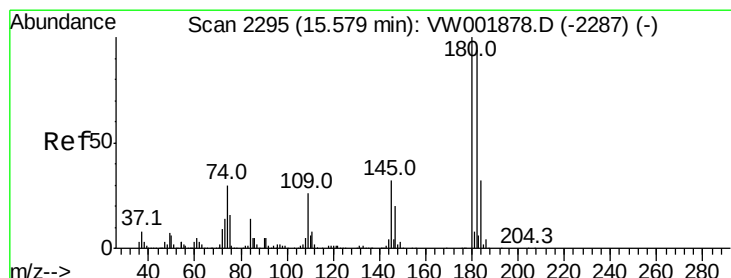
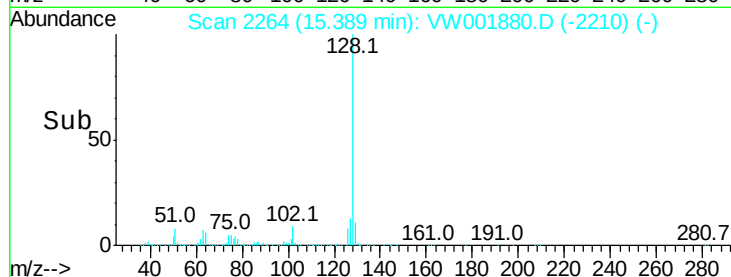
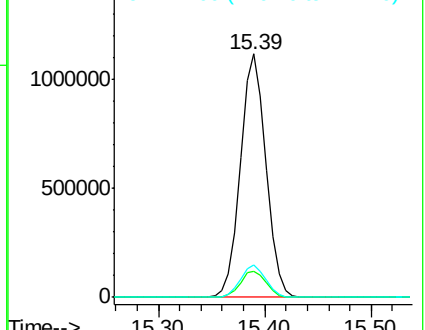
127 13.2 11.0 16.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 110.79 ug/L

RT: 15.58 min Scan# 2295

Delta R.T. -0.00 min

Lab File: VW001880.D

Acq: 05 Apr 2018 14:50

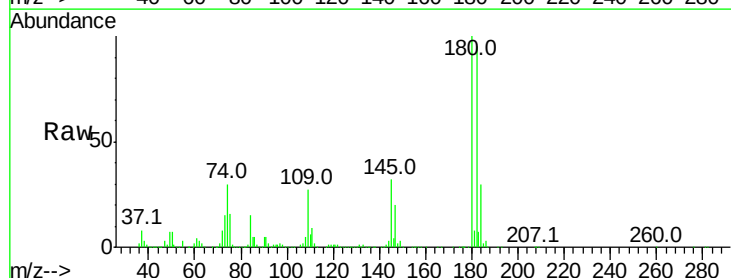
Tgt Ion:180 Resp: 731152

Ion Ratio Lower Upper

180 100

182 94.2 75.8 113.8

145 32.1 25.9 38.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

