

Data File : VW010292.D  
Acq On : 07 May 2019 10:49  
Operator : SY/VA  
Sample : VSTD00508  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD00505

Quant Time: May 08 01:51:43 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM050719S.M  
Quant Title : VOC Analysis  
QLast Update : Wed May 08 01:48:21 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 517450   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 482705   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 223694   | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |        |      |      |      |
|--------------------------------|-------|-----|--------|------|------|------|
| 4) Vinyl Chloride-d3           | 2.36  | 65  | 32654  | 5.42 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 27644  | 5.45 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.01  | 63  | 81270  | 5.41 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.07  | 46  | 24866  | 8.91 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.64  | 84  | 75568  | 5.48 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.30  | 65  | 44595  | 5.47 | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 139319 | 5.31 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 43035  | 5.37 | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 121698 | 5.21 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 18988  | 5.18 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 16594  | 8.10 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 39147  | 5.14 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.86 | 152 | 41286  | 5.41 | ug/L | 0.00 |

Target Compounds

|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 32848  | 4.602 | ug/L   | 99     |
| 3) Chloromethane               | 2.21  | 50  | 33661  | 5.048 | ug/L   | 96     |
| 5) Vinyl chloride              | 2.36  | 62  | 41019  | 5.255 | ug/L   | 96     |
| 6) Bromomethane                | 2.78  | 94  | 24349  | 5.161 | ug/L   | 98     |
| 8) Chloroethane                | 2.92  | 64  | 24743  | 5.228 | ug/L   | 98     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 24881  | 4.939 | ug/L   | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 33257  | 4.653 | ug/L # | 70     |
| 12) 1,1-Dichloroethene         | 4.03  | 96  | 35371  | 5.035 | ug/L   | 99     |
| 13) Acetone                    | 4.12  | 43  | 23169  | 9.700 | ug/L   | 99     |
| 14) Carbon disulfide           | 4.38  | 76  | 107559 | 5.003 | ug/L   | 99     |
| 15) Methyl Acetate             | 4.67  | 43  | 25608  | 4.996 | ug/L # | 78     |
| 16) Methylene chloride         | 4.92  | 84  | 37076  | 5.160 | ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 5.42  | 73  | 45292  | 4.919 | ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 35357  | 4.879 | ug/L   | 90     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 70998  | 5.111 | ug/L   | 99     |
| 21) 2-Butanone                 | 7.17  | 43  | 29932  | 8.760 | ug/L   | 100    |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 35562  | 4.753 | ug/L   | 95     |
| 23) Bromochloromethane         | 7.51  | 128 | 17034  | 5.074 | ug/L   | 98     |
| 25) Chloroform                 | 7.68  | 83  | 70905  | 5.169 | ug/L   | 98     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 50936  | 5.060 | ug/L   | 97     |
| 30) Cyclohexane                | 7.95  | 56  | 55818  | 4.472 | ug/L   | 98     |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 57466  | 5.228 | ug/L   | 99     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 55181  | 5.051 | ug/L   | 99     |
| 34) Benzene                    | 8.32  | 78  | 147406 | 4.975 | ug/L   | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 39206  | 5.008 | ug/L   | 99     |
| 36) Methylcyclohexane          | 9.33  | 83  | 61236  | 4.631 | ug/L   | 96     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 38866  | 5.141 | ug/L # | 95     |
| 41) Bromodichloromethane       | 9.65  | 83  | 49069  | 5.015 | ug/L   | 95     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 51689  | 4.569 | ug/L   | 95     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 57080  | 8.475 | ug/L   | 99     |

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ALS Vial : 1 Sample Multiplier: 1

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MSVOA\_W  
ClientSampleId :  
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Quant Title : VOC Analysis  
QLast Update : Wed May 08 01:48:21 2019  
Response via : Initial Calibration

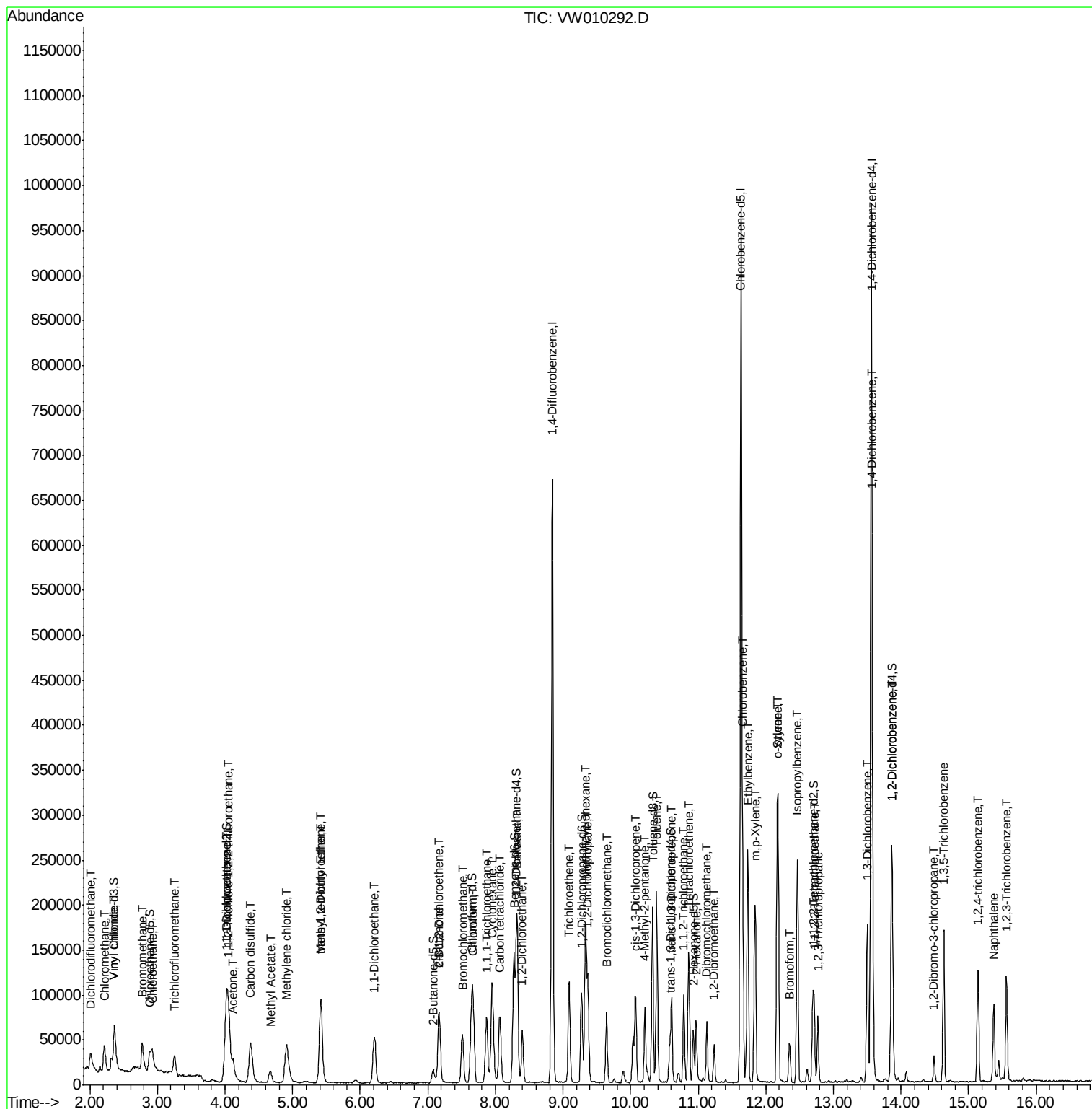
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 44) Toluene                    | 10.39 | 91   | 151745   | 4.890 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 45326    | 4.646 | ug/L  | 93       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 28495    | 5.046 | ug/L  | 96       |
| 47) Tetrachloroethene          | 10.86 | 164  | 29225    | 4.937 | ug/L  | 97       |
| 49) 2-Hexanone                 | 10.97 | 43   | 44140    | 8.642 | ug/L  | 95       |
| 50) Dibromochloromethane       | 11.13 | 129  | 31660    | 4.874 | ug/L  | 98       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 27029    | 4.859 | ug/L  | 97       |
| 52) Chlorobenzene              | 11.66 | 112  | 97686    | 5.040 | ug/L  | 95       |
| 53) Ethylbenzene               | 11.73 | 91   | 165819   | 4.788 | ug/L  | 100      |
| 54) m,p-Xylene                 | 11.84 | 106  | 59272    | 4.704 | ug/L  | 95       |
| 55) o-xylene                   | 12.16 | 106  | 54676    | 4.661 | ug/L  | 88       |
| 56) Styrene                    | 12.18 | 104  | 93167    | 4.603 | ug/L  | 100      |
| 57) Isopropylbenzene           | 12.47 | 105  | 146721   | 4.552 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 38545    | 4.966 | ug/L  | 94       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 28595    | 4.800 | ug/L  | 96       |
| 62) Bromoform                  | 12.35 | 173  | 19075    | 4.958 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 64543    | 4.846 | ug/L  | 95       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 74952    | 5.196 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 64349    | 5.022 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 7288     | 4.773 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 50657    | 5.078 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 15.14 | 180  | 37916    | 4.802 | ug/L  | 98       |
| 69) Naphthalene                | 15.37 | 128  | 70512    | 3.960 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 36413    | 4.801 | ug/L  | 98       |

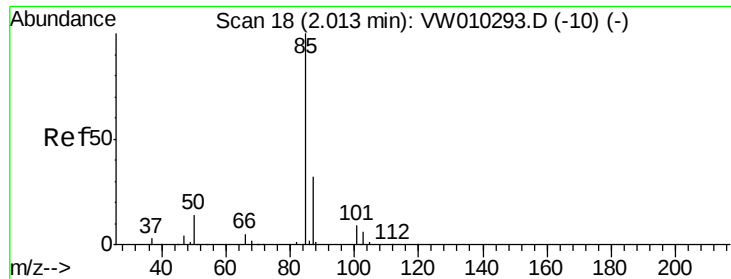
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#2

Dichlorodifluoromethane

Concen: 4.602 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

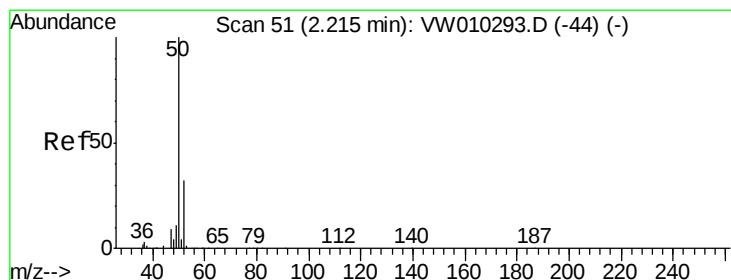
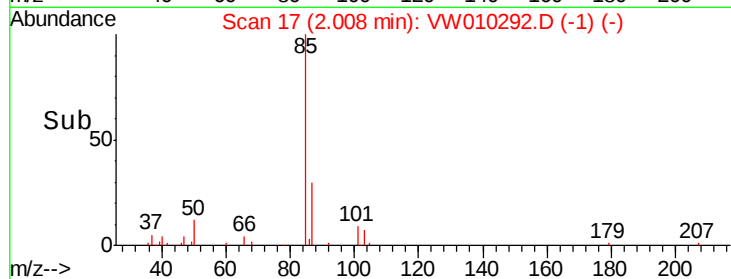
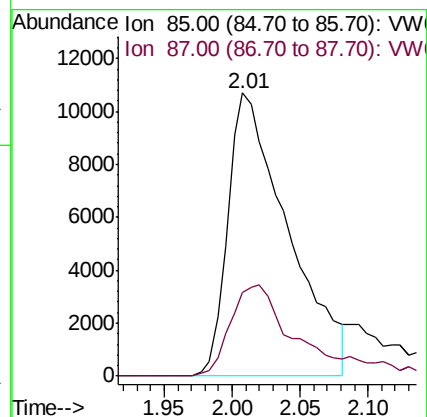
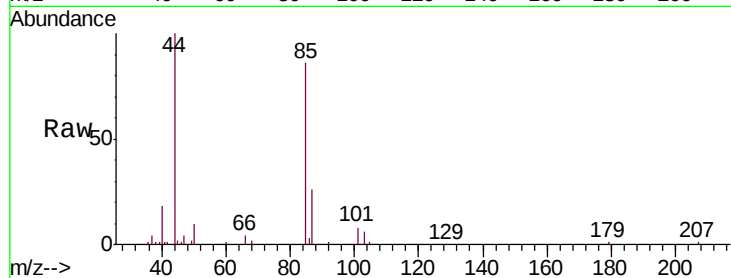
VSTD00505

Tgt Ion: 85 Resp: 32848

Ion Ratio Lower Upper

85 100

87 26.0 18.7 34.7



#3

Chloromethane

Concen: 5.048 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW010292.D

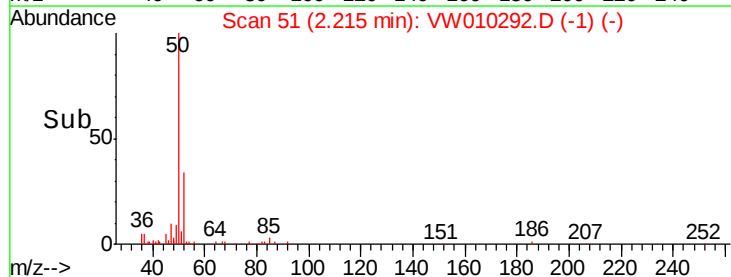
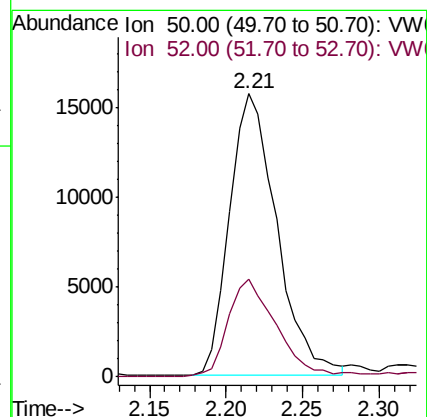
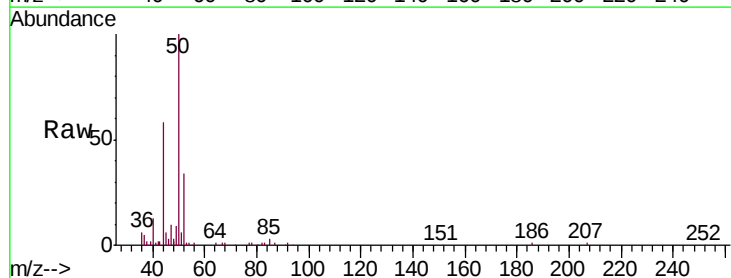
Acq: 07 May 2019 10:49

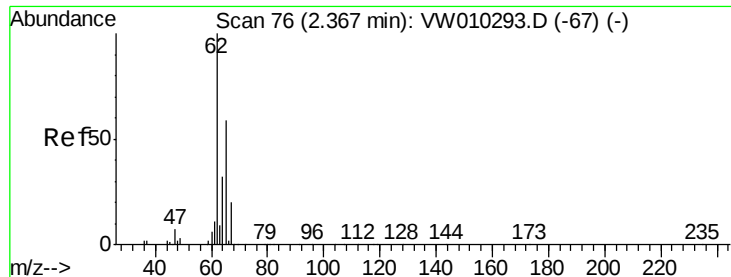
Tgt Ion: 50 Resp: 33661

Ion Ratio Lower Upper

50 100

52 34.3 22.5 41.9





#5

Vinyl chloride

Concen: 5.255 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

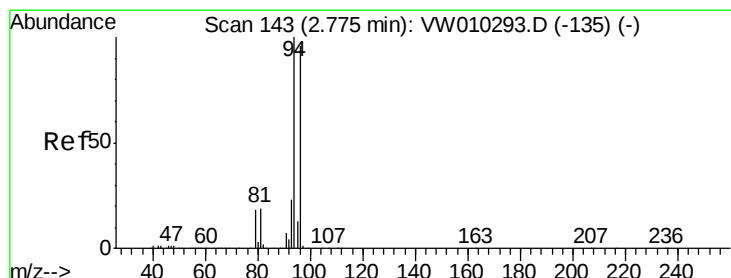
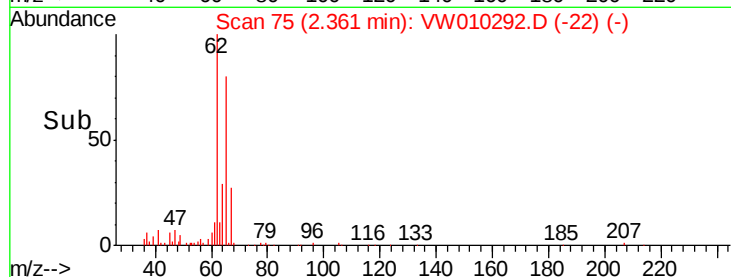
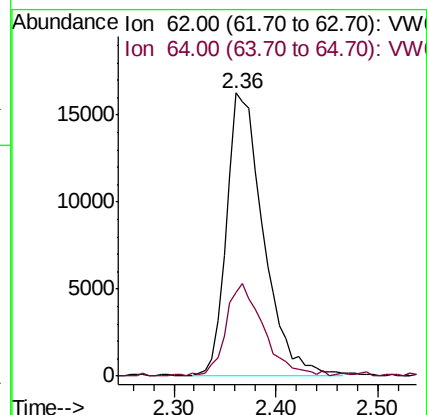
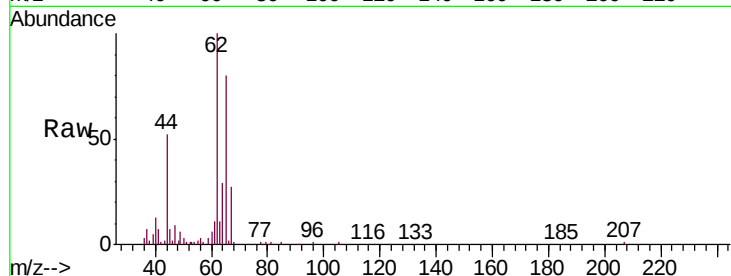
VSTD00505

Tgt Ion: 62 Resp: 41019

Ion Ratio Lower Upper

62 100

64 29.5 22.1 41.1



#6

Bromomethane

Concen: 5.161 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW010292.D

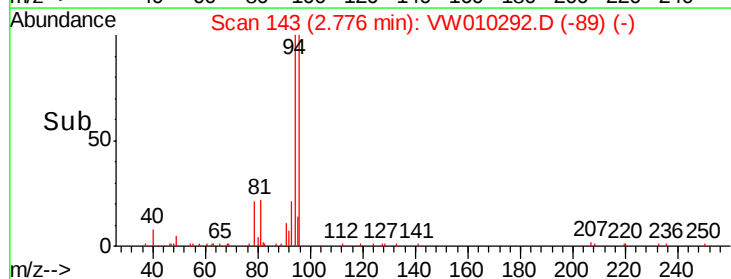
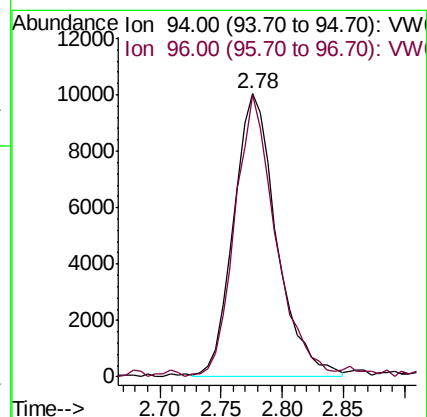
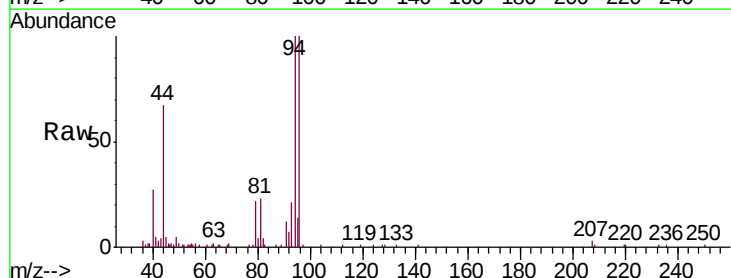
Acq: 07 May 2019 10:49

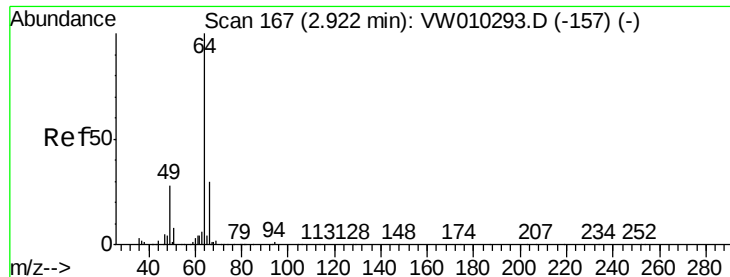
Tgt Ion: 94 Resp: 24349

Ion Ratio Lower Upper

94 100

96 95.4 9.3 177.1





#8

Chloroethane

Concen: 5.228 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

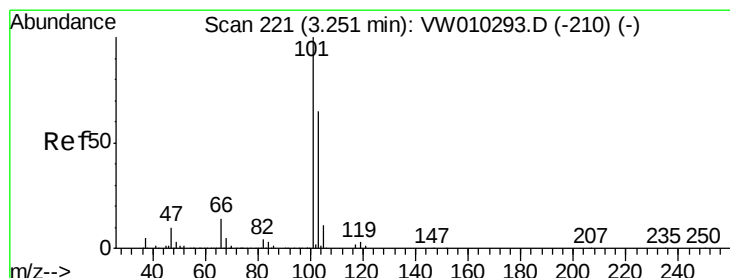
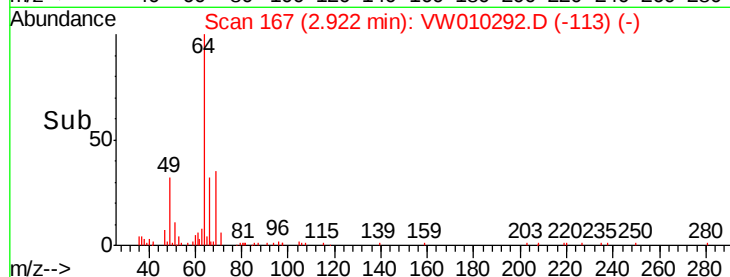
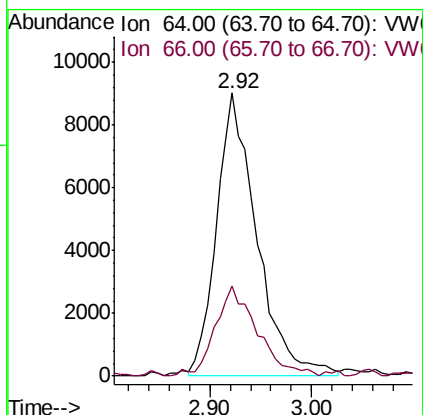
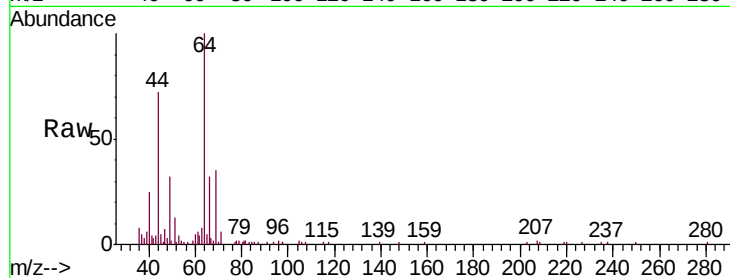
VSTD00505

Tgt Ion: 64 Resp: 24743

Ion Ratio Lower Upper

64 100

66 32.0 21.5 39.9



#9

Trichlorofluoromethane

Concen: 4.939 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.01 min

Lab File: VW010292.D

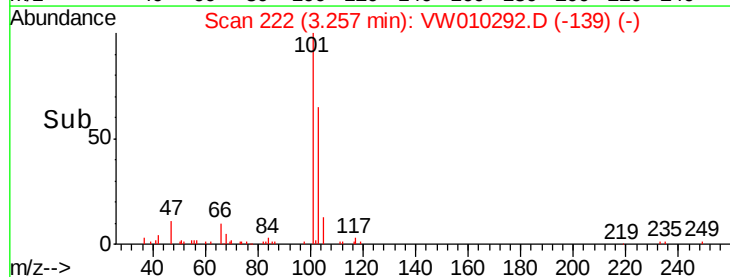
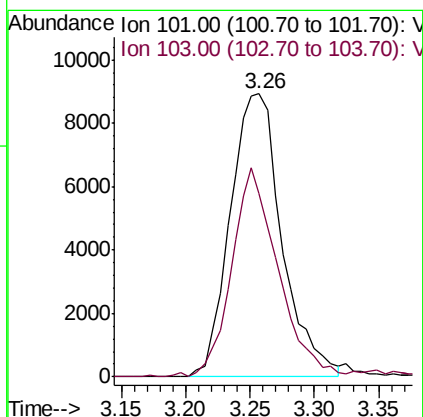
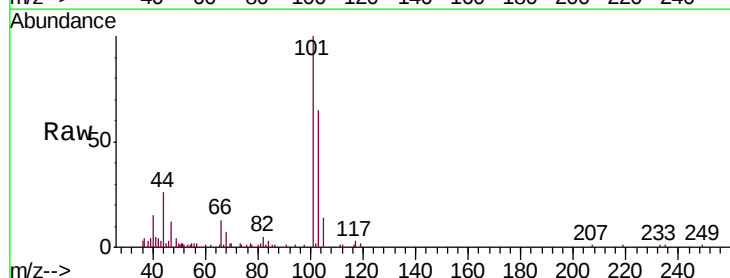
Acq: 07 May 2019 10:49

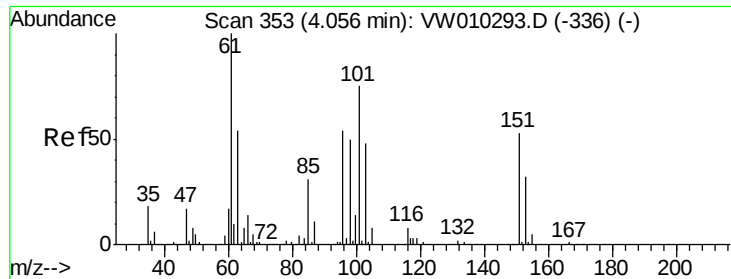
Tgt Ion: 101 Resp: 24881

Ion Ratio Lower Upper

101 100

103 66.0 45.1 83.7





#11

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

Concen: 4.653 ug/L

RT: 4.06 min Scan# 353

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

VSTD00505

Tgt Ion:101 Resp: 33257

Ion Ratio Lower Upper

101 100

85 45.4

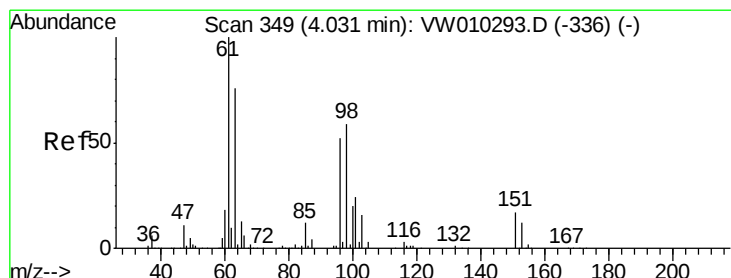
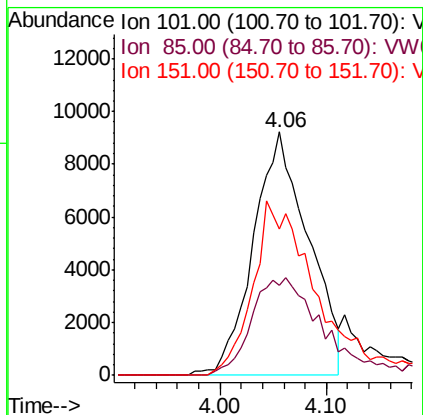
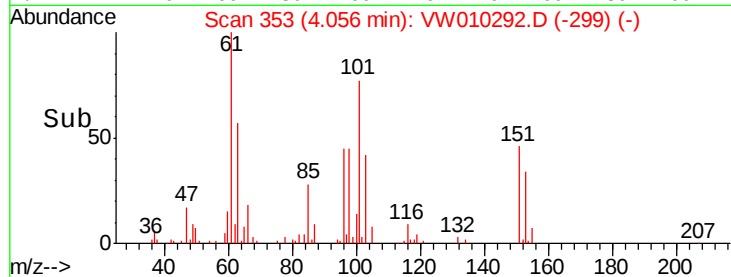
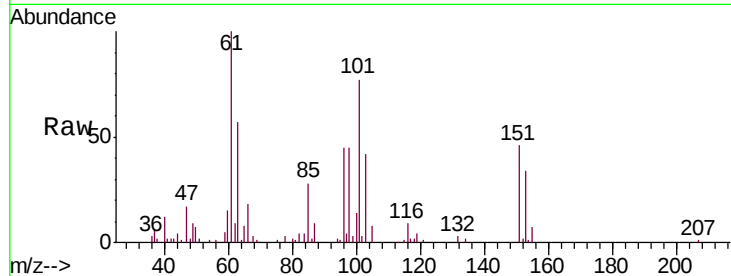
151 35.9

33.7

58.7

50.5

88.1#



#12

1,1-Dichloroethene

Concen: 5.035 ug/L

RT: 4.03 min Scan# 349

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Tgt Ion: 96 Resp: 35371

Ion Ratio Lower Upper

96 100

61 192.8

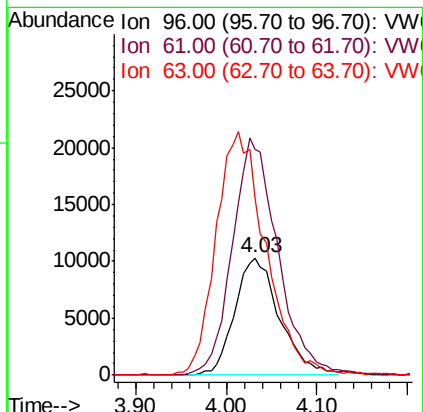
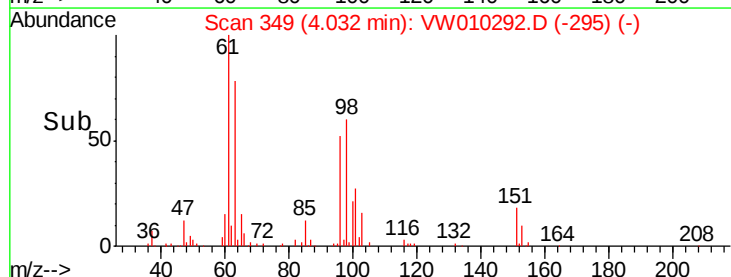
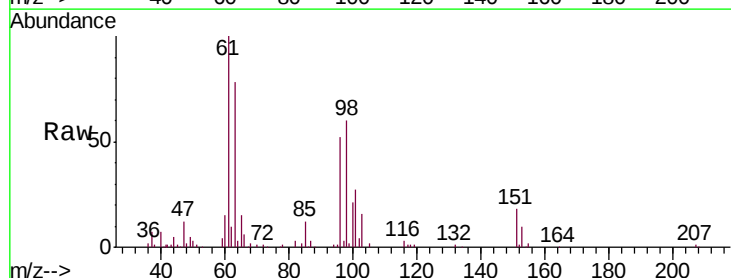
63 151.3

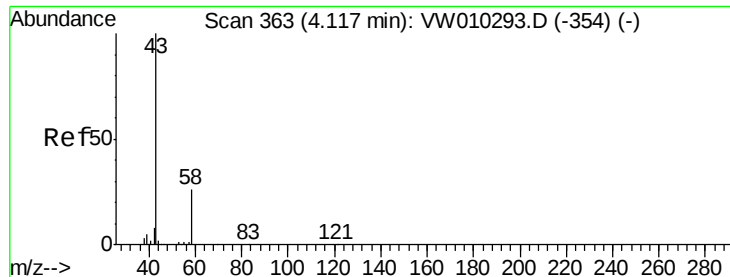
135.1

103.1

250.9

191.5





#13

Acetone

Concen: 9.700 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

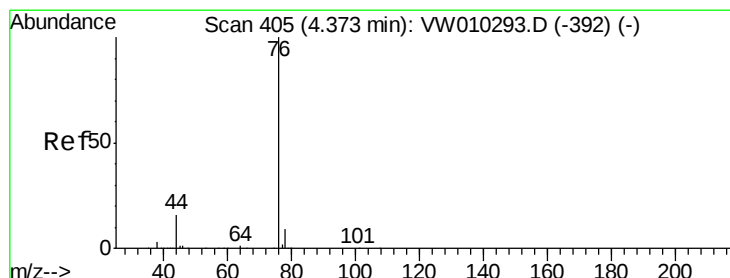
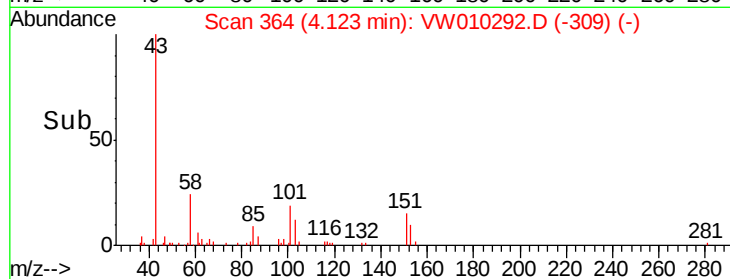
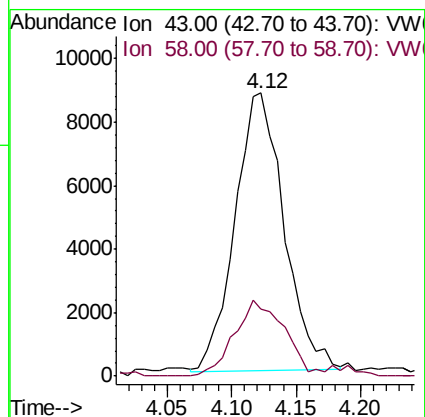
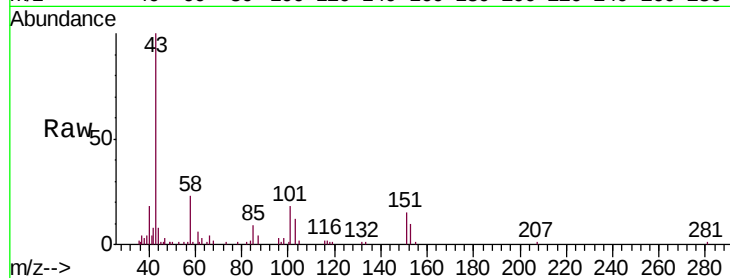
VSTD00505

Tgt Ion: 43 Resp: 23169

Ion Ratio Lower Upper

43 100

58 27.3 0.0 55.2



#14

Carbon disulfide

Concen: 5.003 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW010292.D

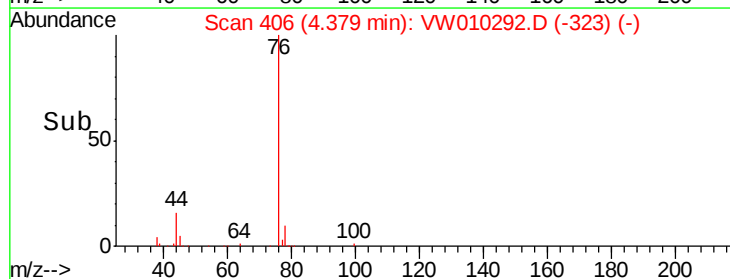
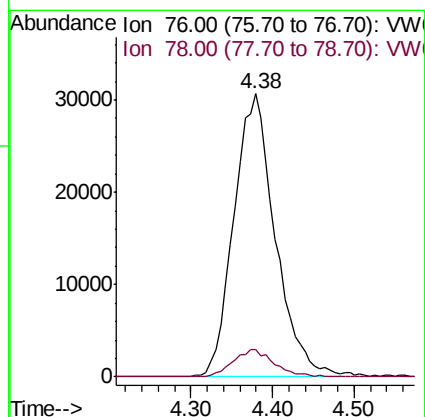
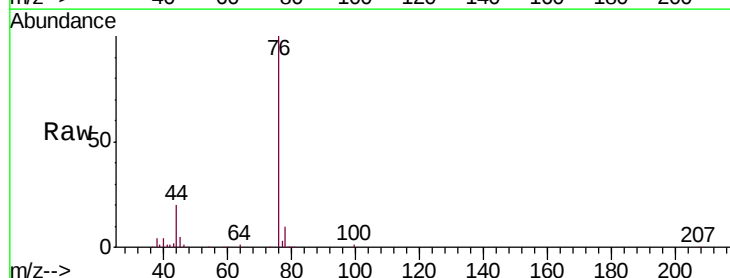
Acq: 07 May 2019 10:49

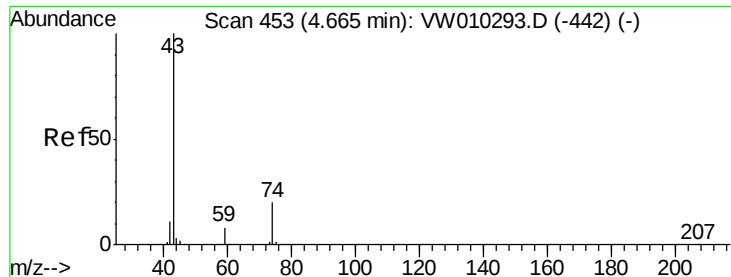
Tgt Ion: 76 Resp: 107559

Ion Ratio Lower Upper

76 100

78 9.7 7.5 11.3

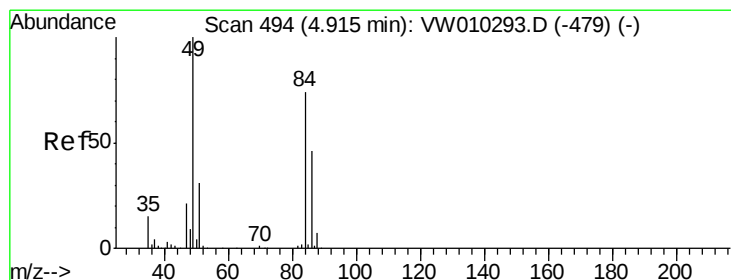
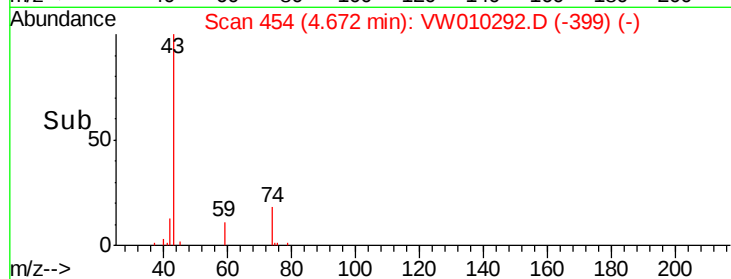
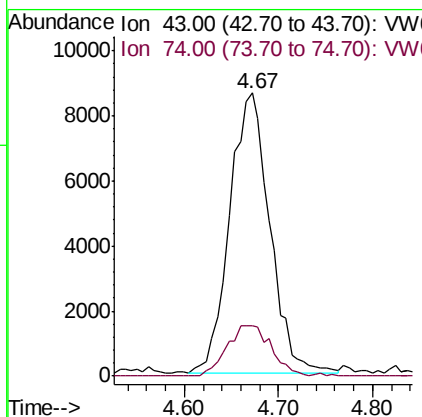
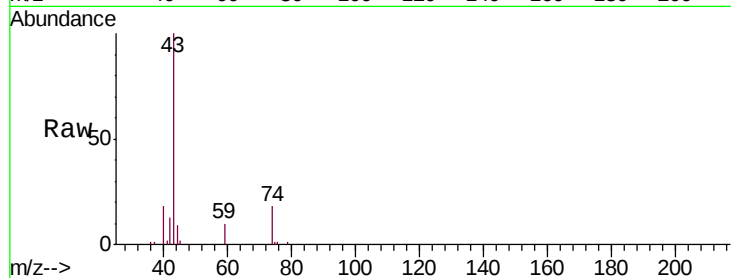




#15  
Methyl Acetate  
Concen: 4.996 ug/L  
RT: 4.67 min Scan# 454  
Delta R.T. 0.01 min  
Lab File: VW010292.D  
Acq: 07 May 2019 10:49

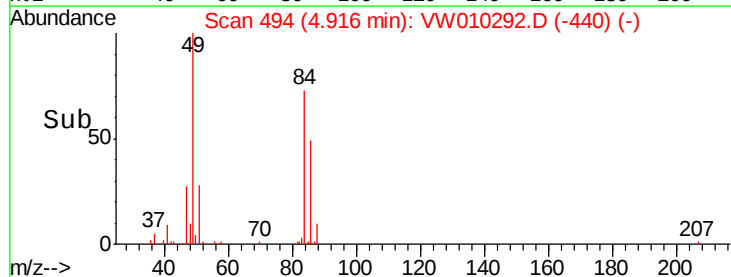
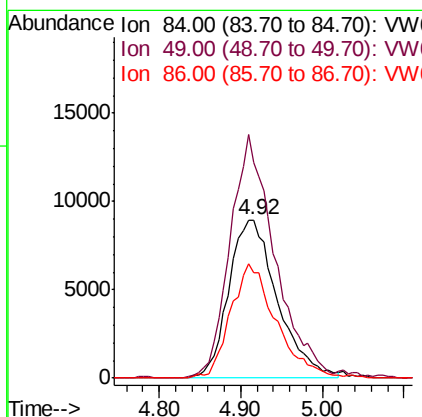
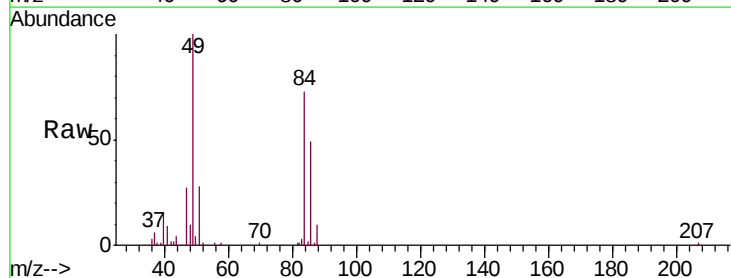
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD00505

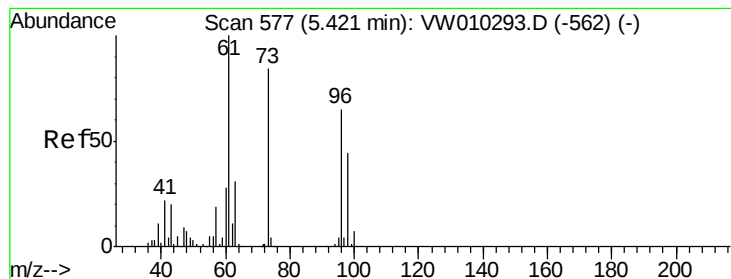
Tgt Ion: 43 Resp: 25608  
Ion Ratio Lower Upper  
43 100  
74 9.8 16.1 24.1#



#16  
Methylene chloride  
Concen: 5.160 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW010292.D  
Acq: 07 May 2019 10:49

Tgt Ion: 84 Resp: 37076  
Ion Ratio Lower Upper  
84 100  
49 136.3 94.4 175.4  
86 66.3 43.8 81.4





#17

Methyl tert-butyl Ether

Concen: 4.919 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

VSTD00505

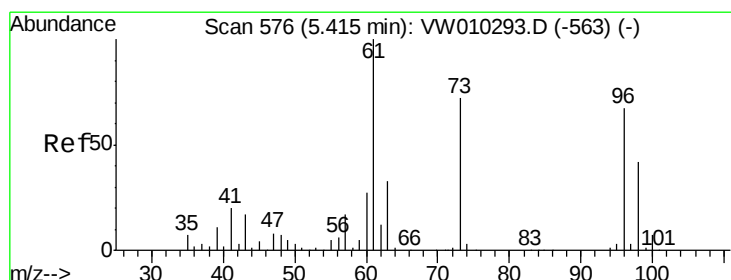
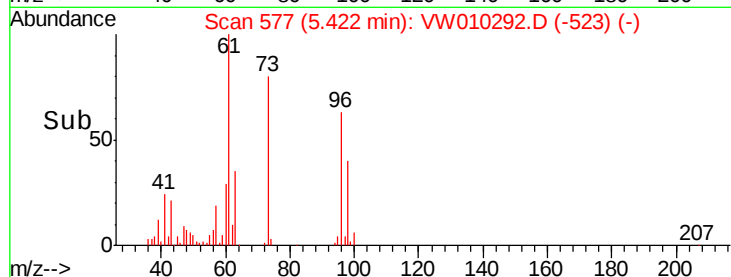
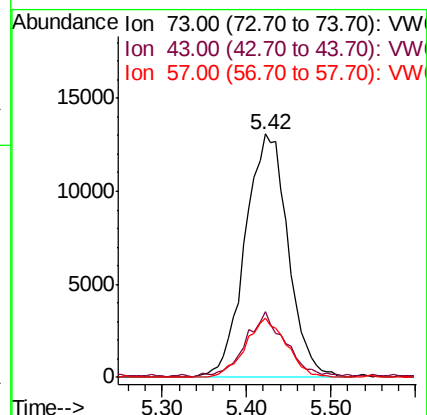
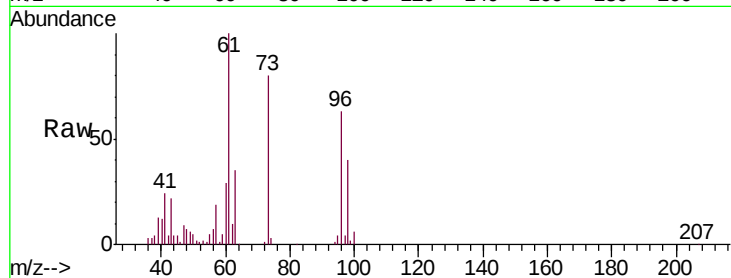
Tgt Ion: 73 Resp: 45292

Ion Ratio Lower Upper

73 100

43 24.4 19.5 29.3

57 23.0 18.9 28.3



#18

trans-1,2-Dichloroethene

Concen: 4.879 ug/L

RT: 5.42 min Scan# 576

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

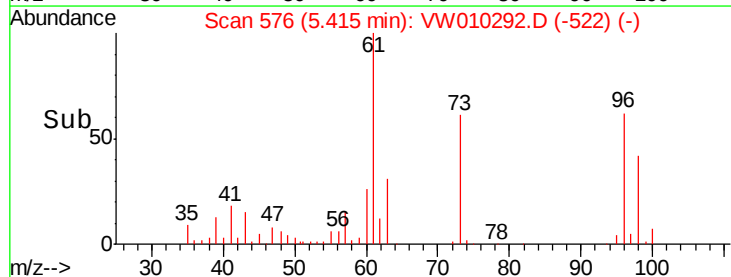
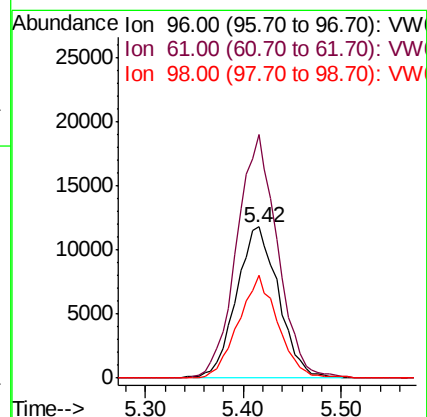
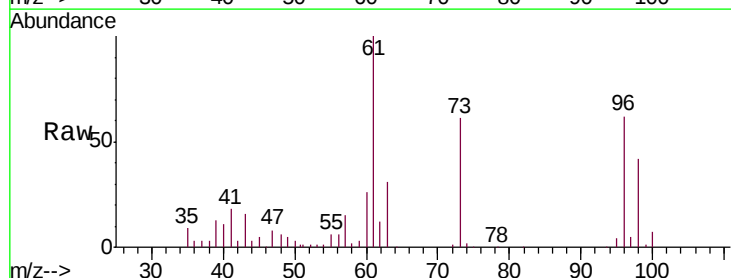
Tgt Ion: 96 Resp: 35357

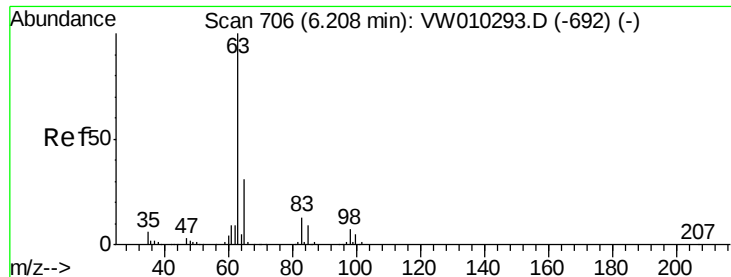
Ion Ratio Lower Upper

96 100

61 161.4 103.7 192.7

98 68.3 43.6 81.0

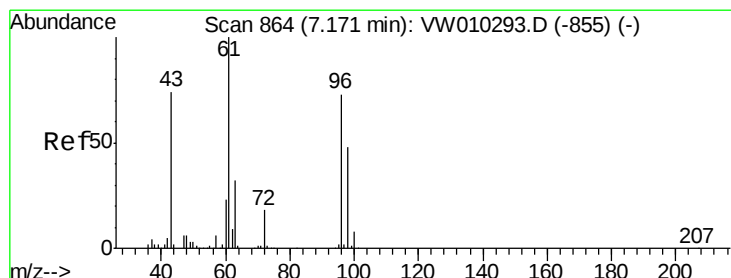
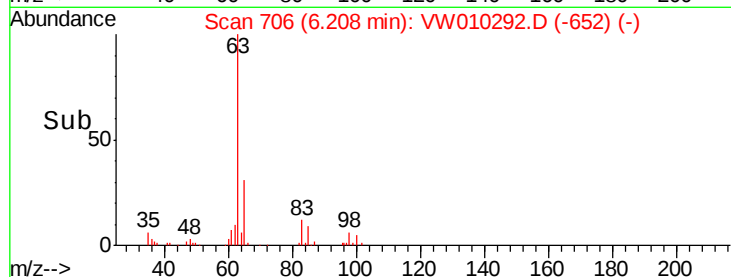
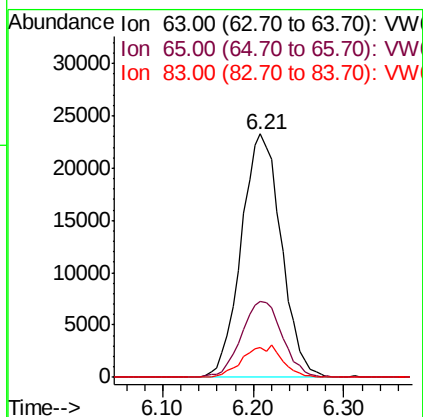
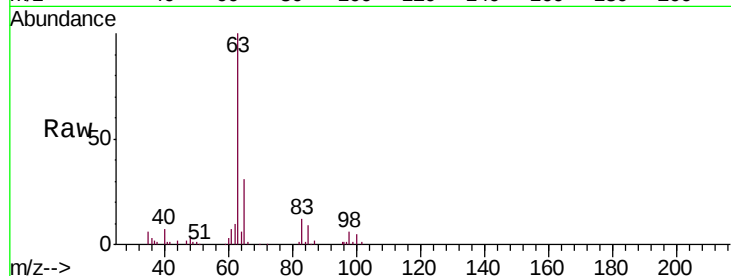




#19  
 1,1-Dichloroethane  
 Concen: 5.111 ug/L  
 RT: 6.21 min Scan# 706  
 Delta R.T. 0.00 min  
 Lab File: VW010292.D  
 Acq: 07 May 2019 10:49

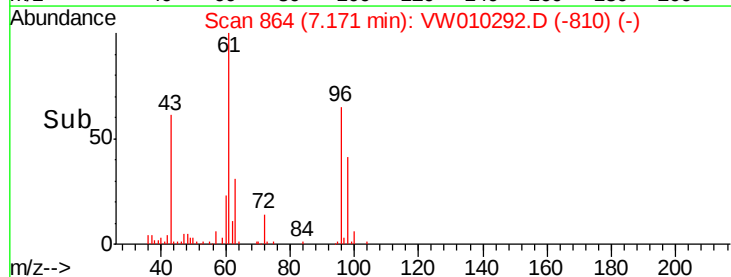
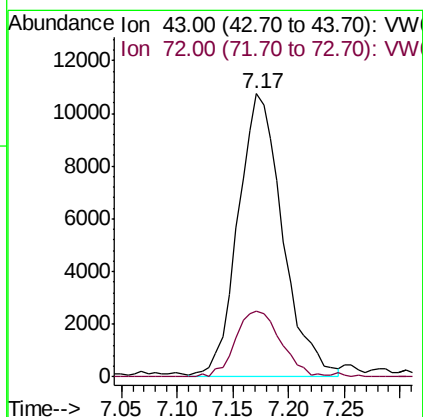
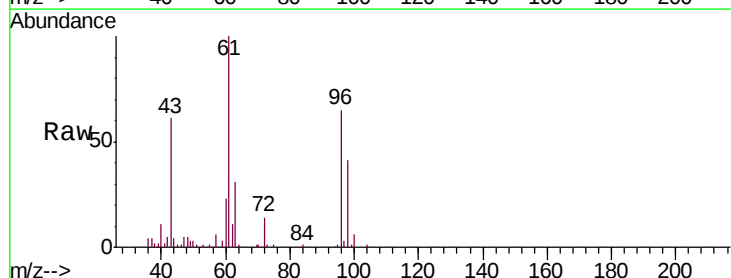
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00505

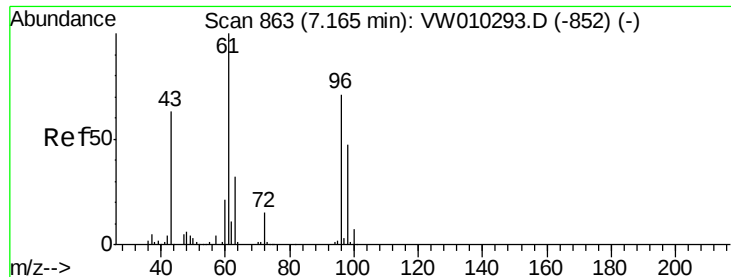
Tgt Ion: 63 Resp: 70998  
 Ion Ratio Lower Upper  
 63 100  
 65 31.0 21.8 40.4  
 83 12.2 9.2 17.2



#21  
 2-Butanone  
 Concen: 8.760 ug/L  
 RT: 7.17 min Scan# 864  
 Delta R.T. 0.00 min  
 Lab File: VW010292.D  
 Acq: 07 May 2019 10:49

Tgt Ion: 43 Resp: 29932  
 Ion Ratio Lower Upper  
 43 100  
 72 23.3 11.7 35.1



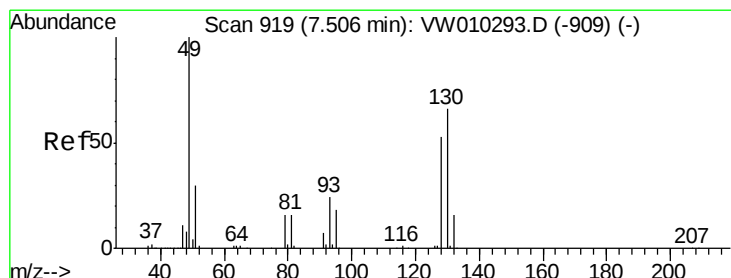
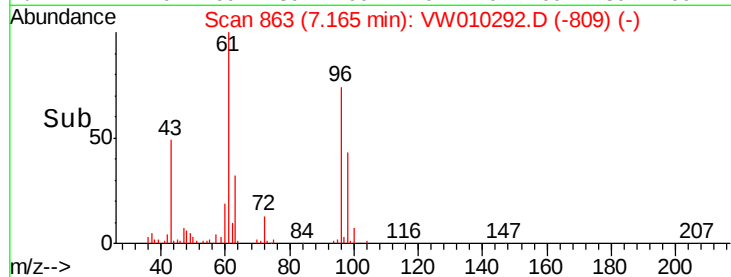
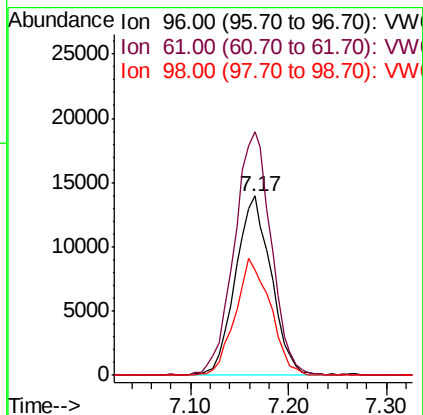
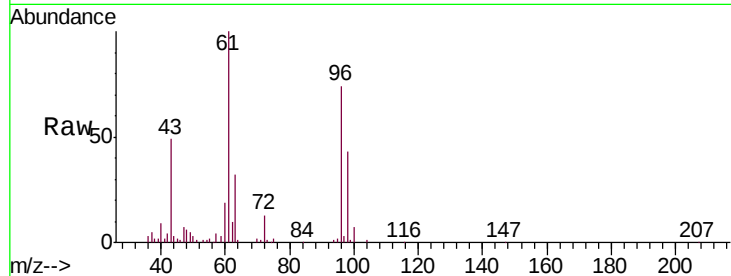


#22

cis-1,2-Dichloroethene  
 Concen: 4.753 ug/L  
 RT: 7.17 min Scan# 863  
 Delta R.T. 0.00 min  
 Lab File: VW010292.D  
 Acq: 07 May 2019 10:49

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00505

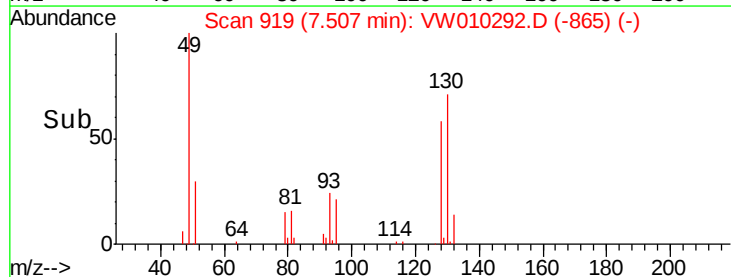
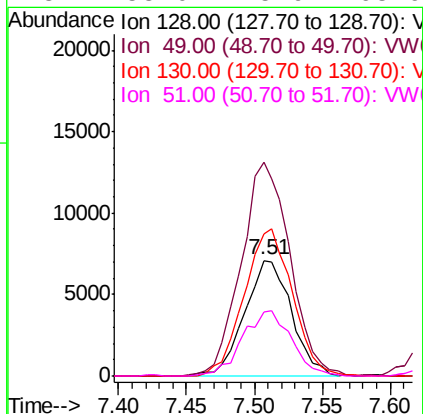
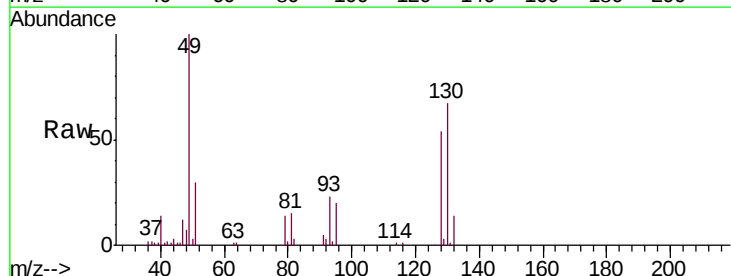
Tgt Ion: 96 Resp: 35562  
 Ion Ratio Lower Upper  
 96 100  
 61 135.8 98.2 182.4  
 98 58.9 45.8 85.2

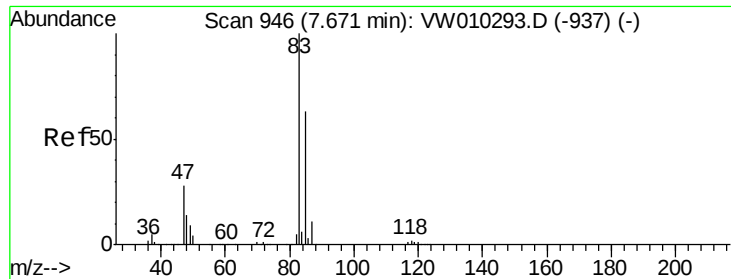


#23

Bromochloromethane  
 Concen: 5.074 ug/L  
 RT: 7.51 min Scan# 919  
 Delta R.T. 0.00 min  
 Lab File: VW010292.D  
 Acq: 07 May 2019 10:49

Tgt Ion: 128 Resp: 17034  
 Ion Ratio Lower Upper  
 128 100  
 49 184.8 132.5 246.1  
 130 123.2 86.7 161.1  
 51 55.0 45.9 68.9





#25

Chloroform

Concen: 5.169 ug/L

RT: 7.68 min Scan# 947

Delta R.T. 0.01 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

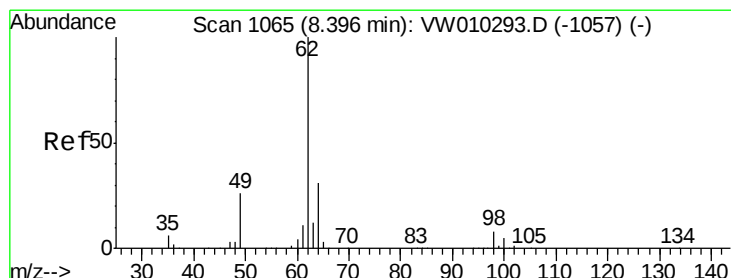
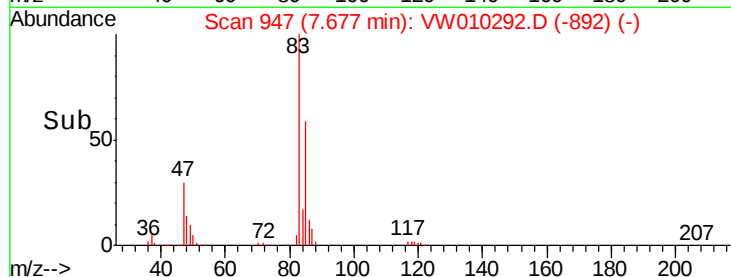
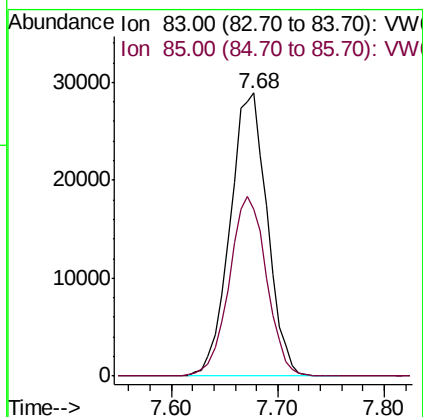
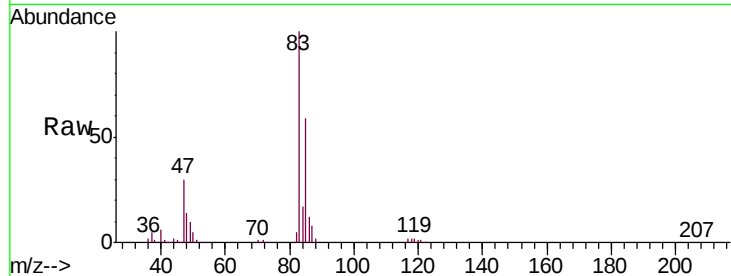
VSTD00505

Tgt Ion: 83 Resp: 70905

Ion Ratio Lower Upper

83 100

85 63.7 45.8 85.0



#27

1,2-Dichloroethane

Concen: 5.060 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW010292.D

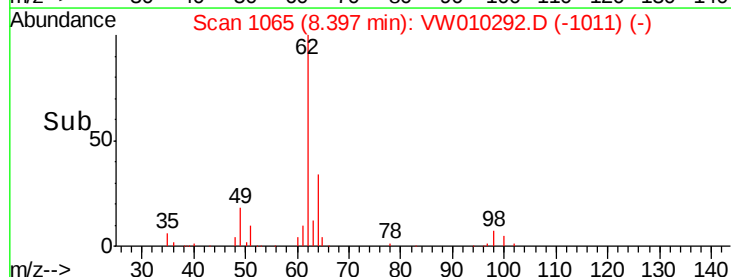
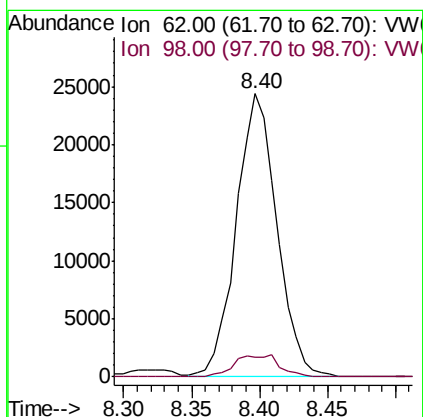
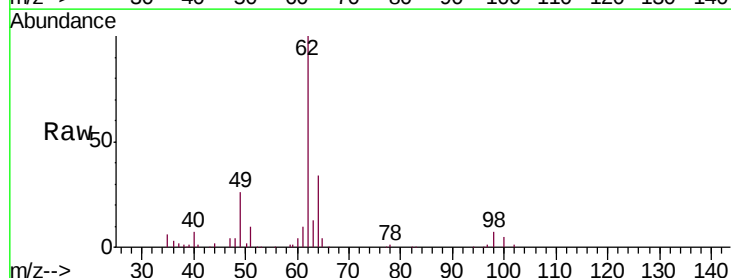
Acq: 07 May 2019 10:49

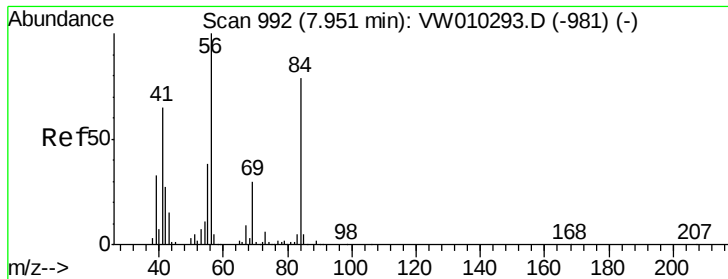
Tgt Ion: 62 Resp: 50936

Ion Ratio Lower Upper

62 100

98 6.7 6.2 9.4

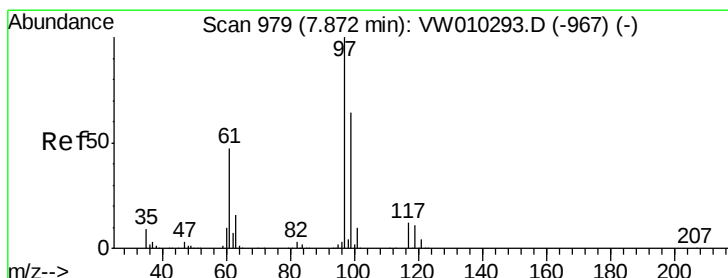
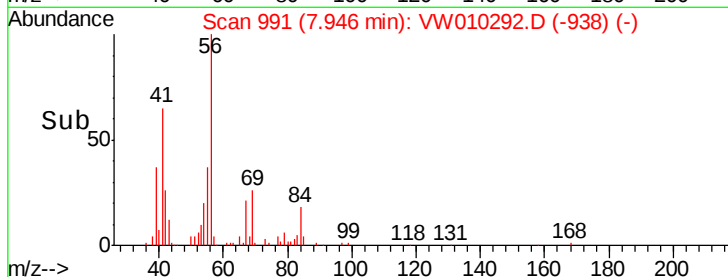
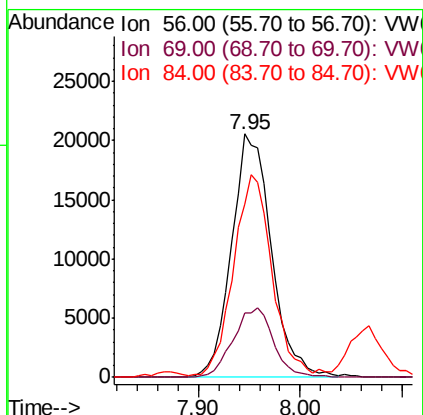
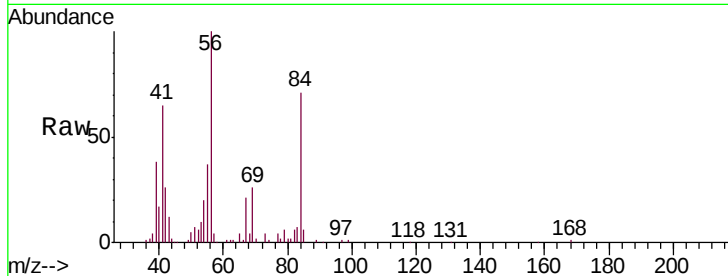




#30  
Cyclohexane  
Concen: 4.472 ug/L  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW010292.D  
Acq: 07 May 2019 10:49

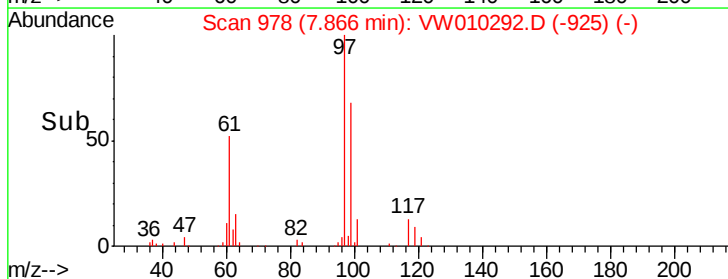
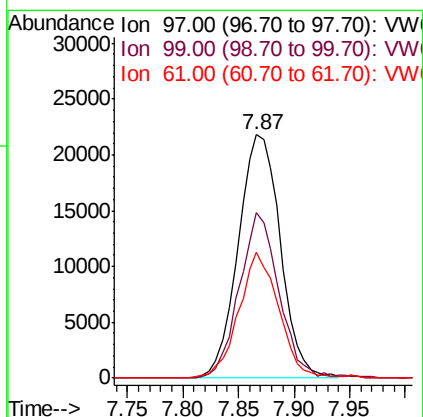
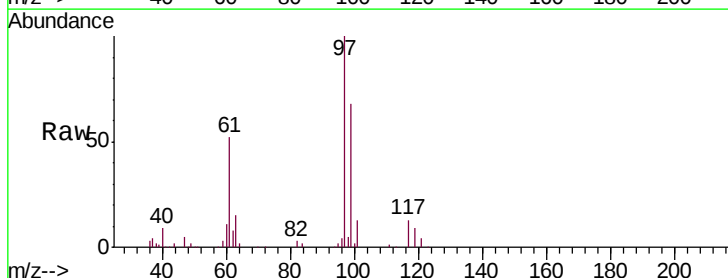
Instrument :  
MSVOA\_W  
ClientSampled :  
VSTD00505

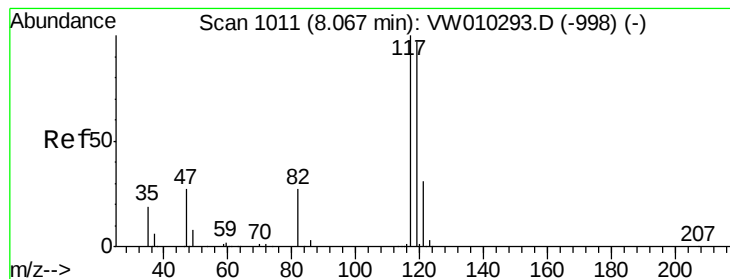
Tgt Ion: 56 Resp: 55818  
Ion Ratio Lower Upper  
56 100  
69 28.9 23.6 35.4  
84 80.2 65.8 98.8



#31  
1,1,1-Trichloroethane  
Concen: 5.228 ug/L  
RT: 7.87 min Scan# 978  
Delta R.T. -0.01 min  
Lab File: VW010292.D  
Acq: 07 May 2019 10:49

Tgt Ion: 97 Resp: 57466  
Ion Ratio Lower Upper  
97 100  
99 63.0 51.8 77.6  
61 48.8 39.3 58.9





#32

Carbon tetrachloride

Concen: 5.051 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

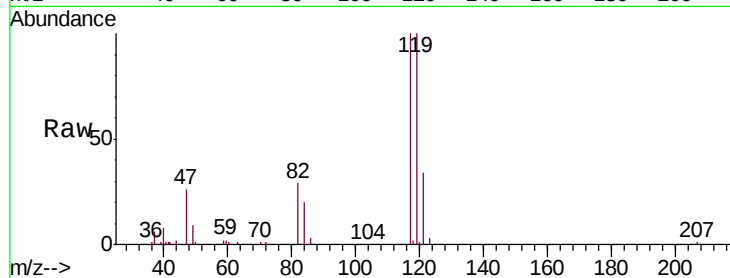
VSTD00505

Tgt Ion:117 Resp: 55181

Ion Ratio Lower Upper

117 100

119 94.6 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

25000

20000

15000

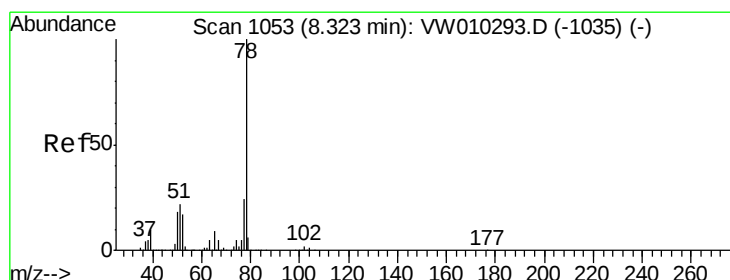
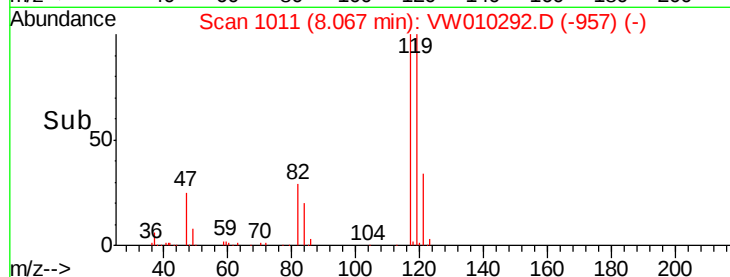
10000

5000

0

8.00 8.10 8.20

Time-->



#34

Benzene

Concen: 4.975 ug/L

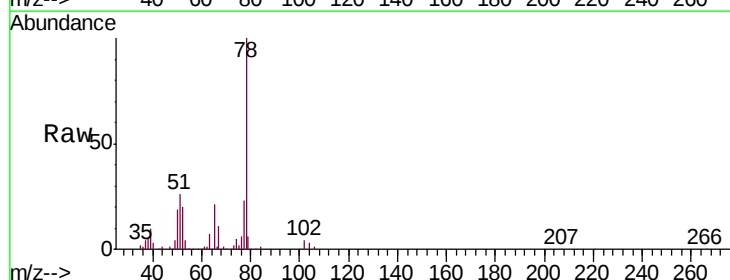
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Tgt Ion: 78 Resp: 147406



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

60000

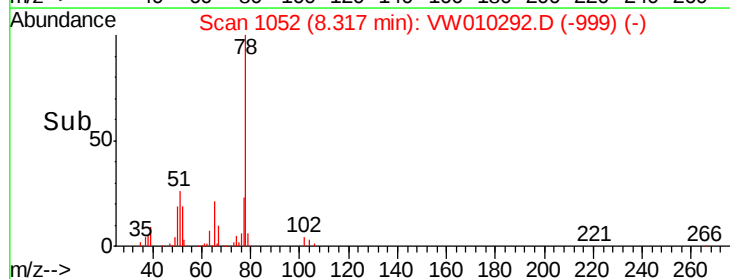
40000

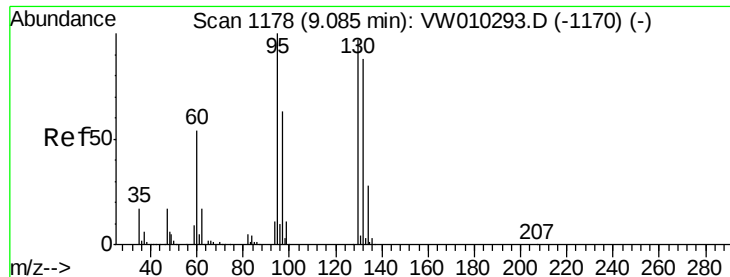
20000

0

8.20 8.30 8.40

Time-->

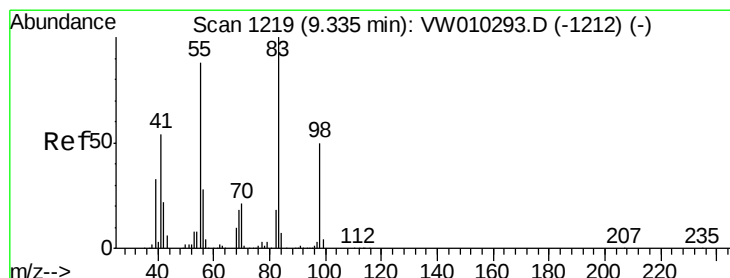
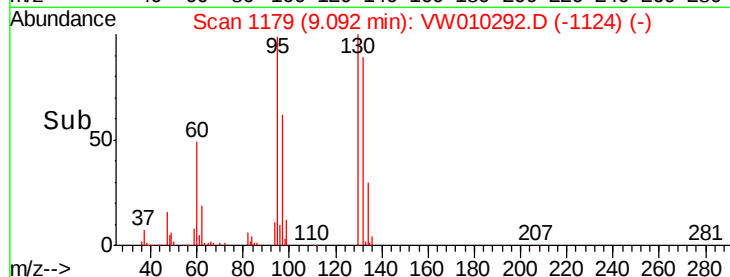
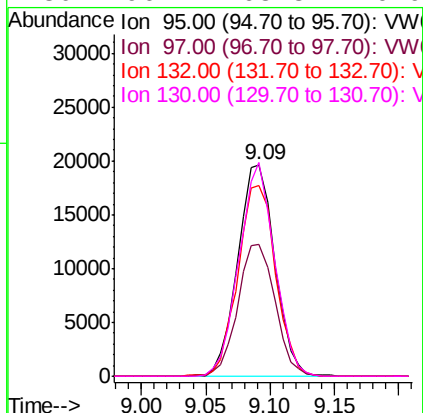
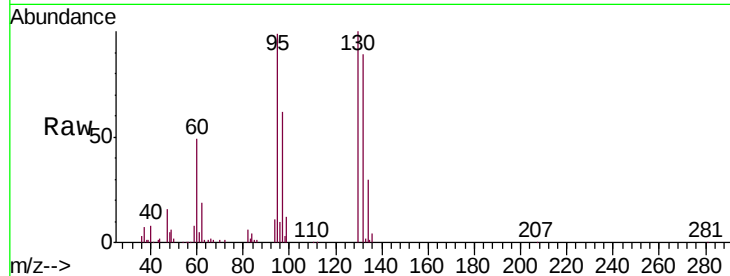




#35  
 Trichloroethene  
 Concen: 5.008 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. 0.01 min  
 Lab File: VW010292.D  
 Acq: 07 May 2019 10:49

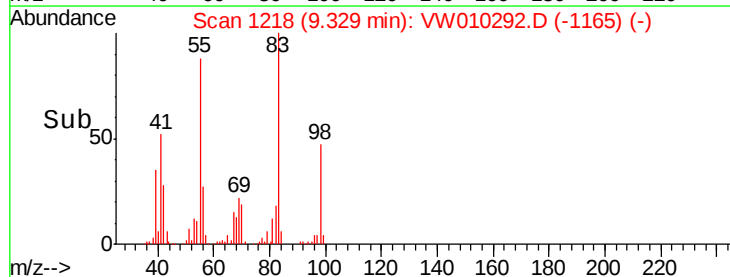
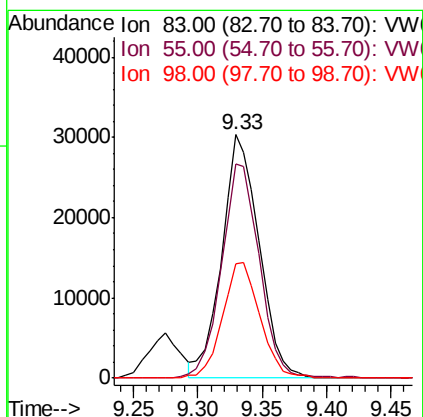
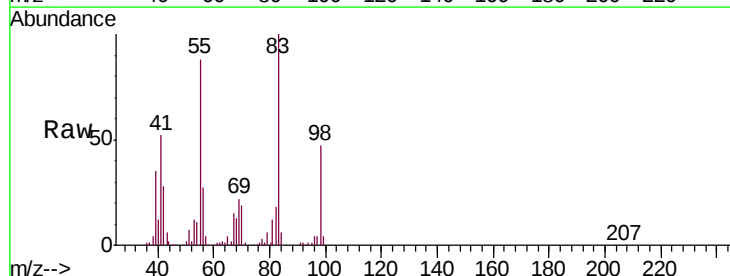
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VSTD00505

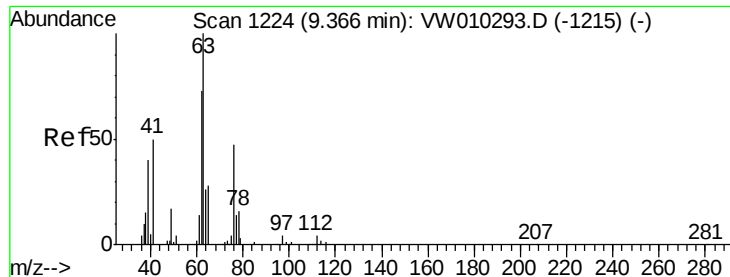
Tgt Ion: 95 Resp: 39206  
 Ion Ratio Lower Upper  
 95 100  
 97 62.6 44.8 83.2  
 132 91.6 64.7 120.1  
 130 96.7 68.3 126.9



#36  
 Methylcyclohexane  
 Concen: 4.631 ug/L  
 RT: 9.33 min Scan# 1218  
 Delta R.T. -0.01 min  
 Lab File: VW010292.D  
 Acq: 07 May 2019 10:49

Tgt Ion: 83 Resp: 61236  
 Ion Ratio Lower Upper  
 83 100  
 55 89.0 67.2 100.8  
 98 47.6 38.7 58.1





#40

1,2-Dichloropropane

Concen: 5.141 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

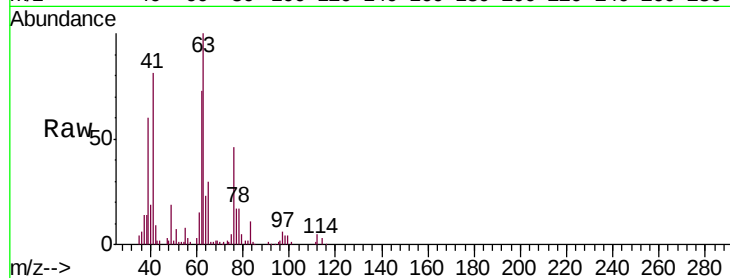
VSTD00505

Tgt Ion: 63 Resp: 38866

Ion Ratio Lower Upper

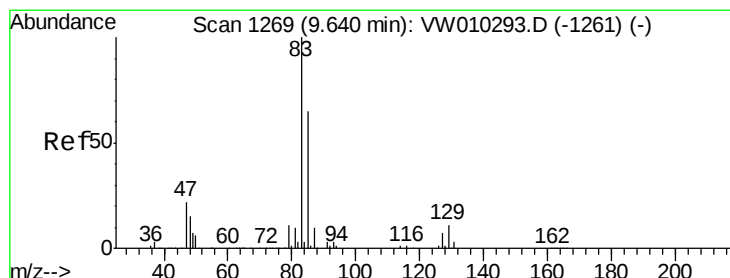
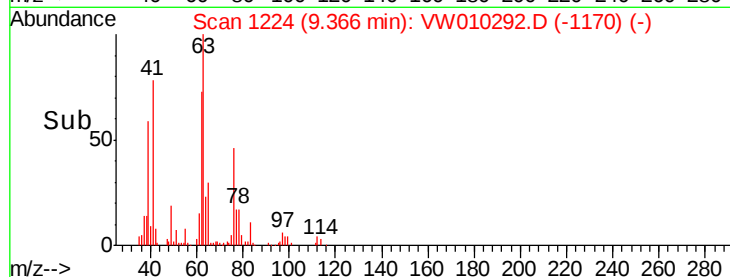
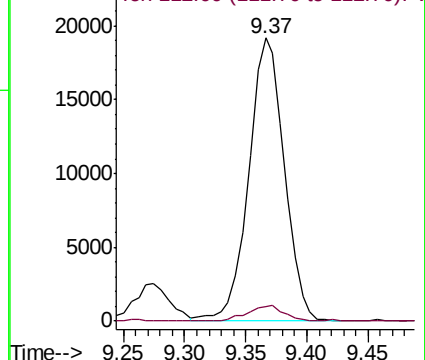
63 100

112 5.5 3.2 4.8#



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 5.015 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

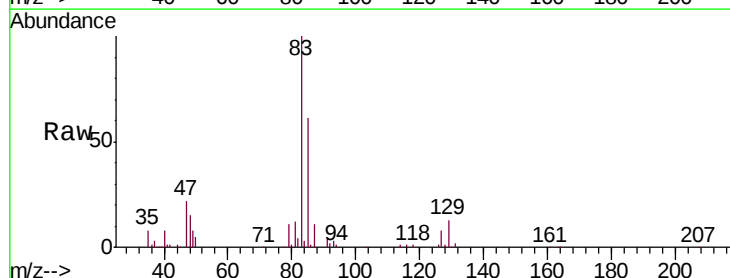
Tgt Ion: 83 Resp: 49069

Ion Ratio Lower Upper

83 100

85 61.2 45.5 84.5

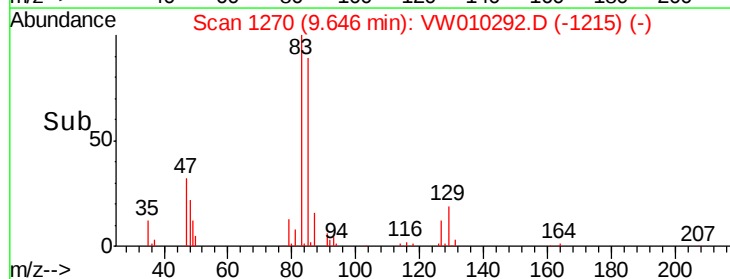
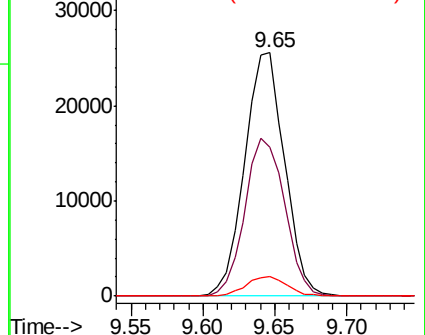
127 7.9 5.6 8.4

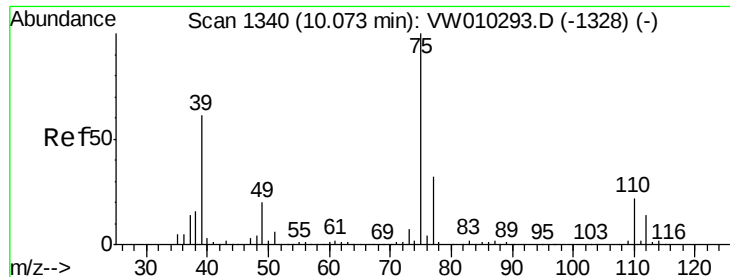


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 4.569 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

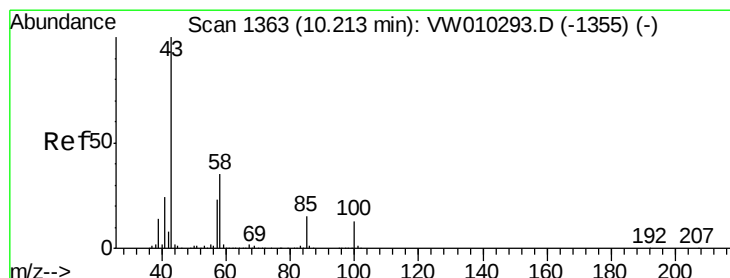
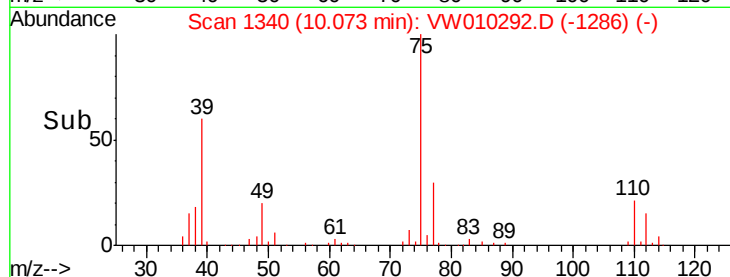
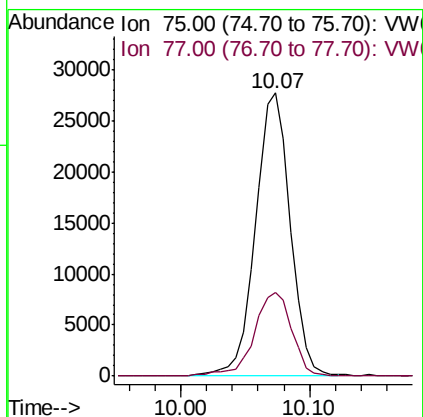
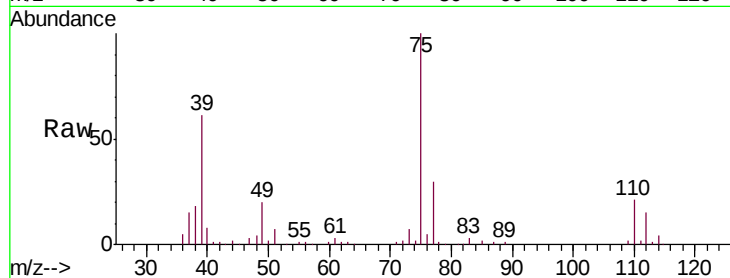
VSTD00505

Tgt Ion: 75 Resp: 51689

Ion Ratio Lower Upper

75 100

77 29.5 22.5 41.7



#43

4-Methyl-2-pentanone

Concen: 8.475 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

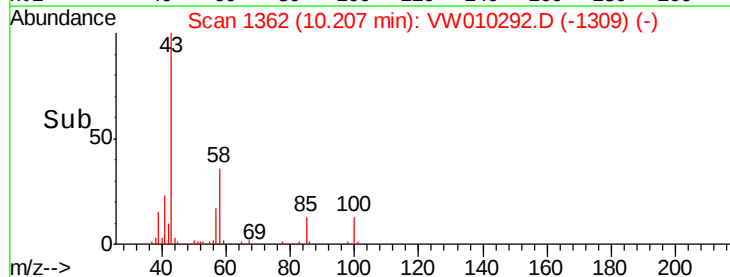
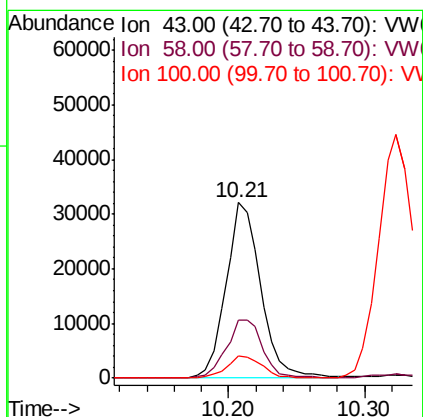
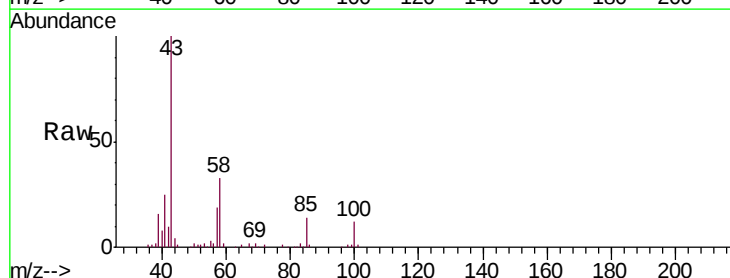
Tgt Ion: 43 Resp: 57080

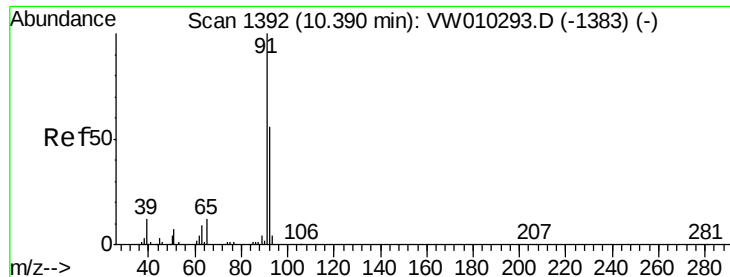
Ion Ratio Lower Upper

43 100

58 34.8 28.3 42.5

100 12.6 10.5 15.7





#44

Toluene

Concen: 4.890 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

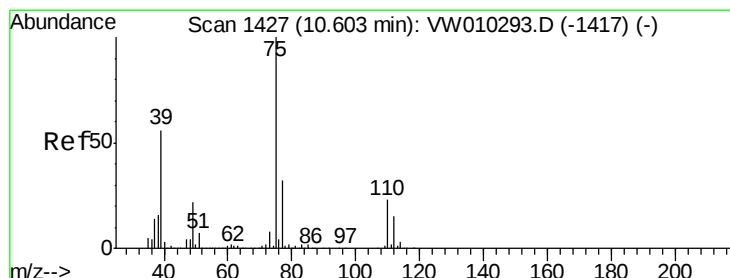
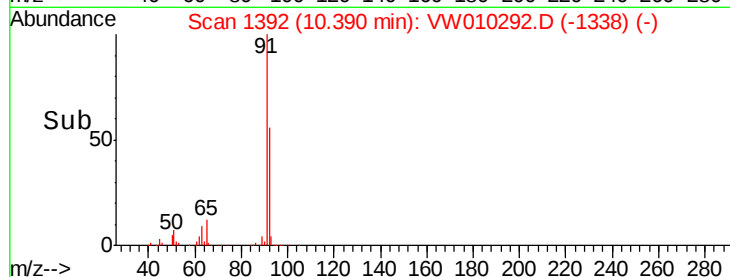
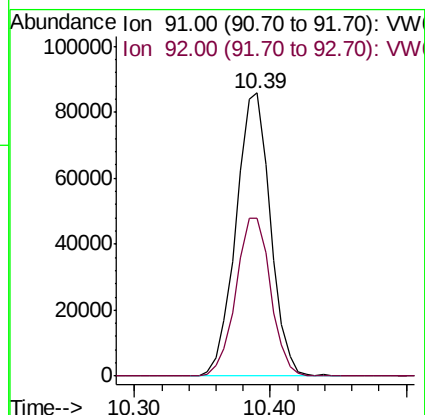
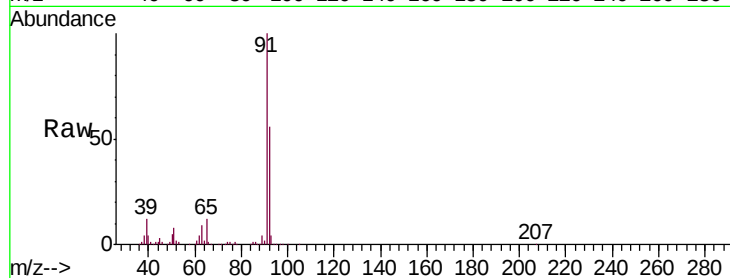
VSTD00505

Tgt Ion: 91 Resp: 151745

Ion Ratio Lower Upper

91 100

92 55.8 39.5 73.4



#45

trans-1,3-Dichloropropene

Concen: 4.646 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW010292.D

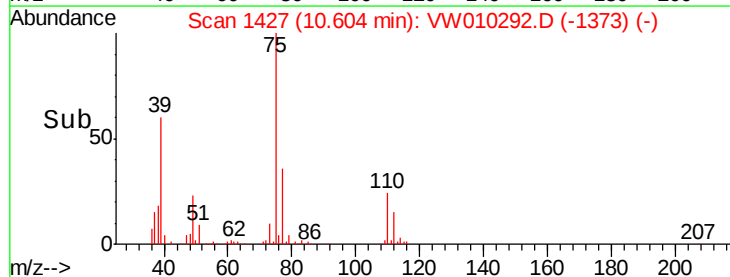
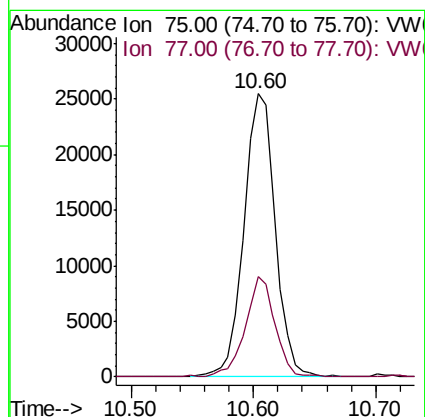
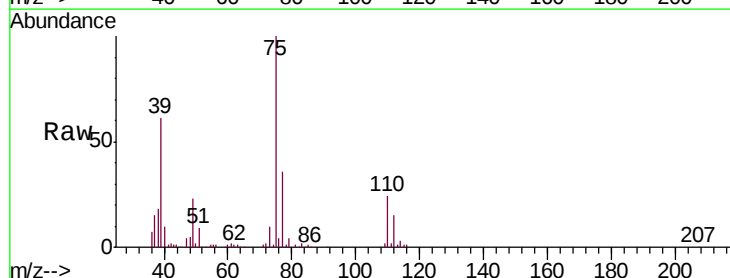
Acq: 07 May 2019 10:49

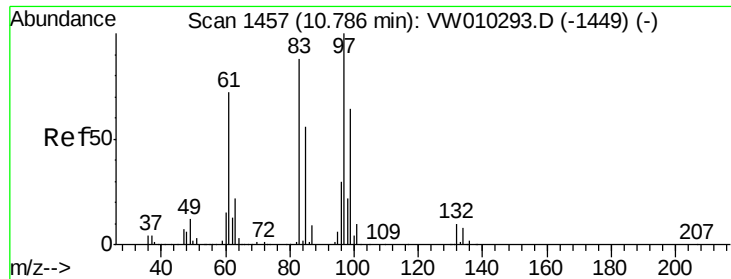
Tgt Ion: 75 Resp: 45326

Ion Ratio Lower Upper

75 100

77 35.6 22.1 41.1





#46

1,1,2-Trichloroethane

Concen: 5.046 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

VSTD00505

Tgt Ion: 97 Resp: 28495

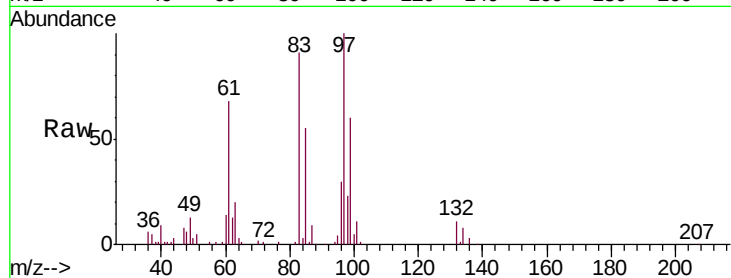
Ion Ratio Lower Upper

97 100

83 90.8 61.2 113.8

85 55.2 39.3 72.9

99 59.6 44.7 82.9



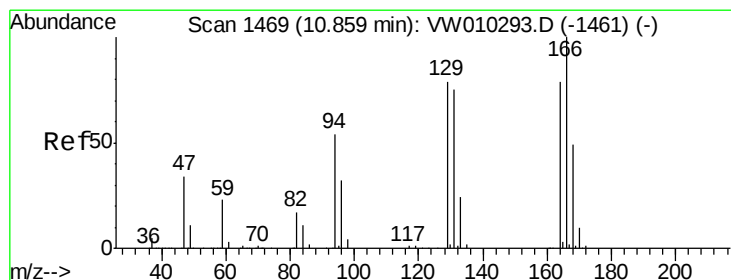
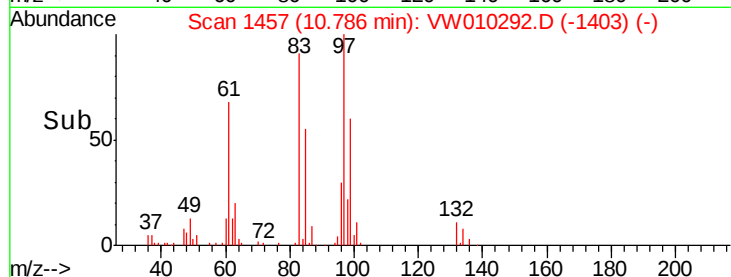
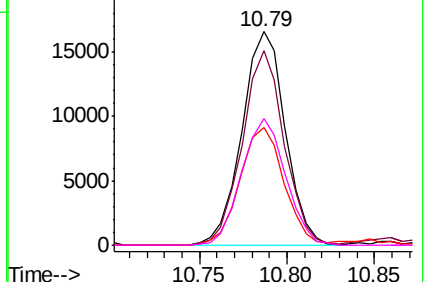
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 4.937 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Tgt Ion: 164 Resp: 29225

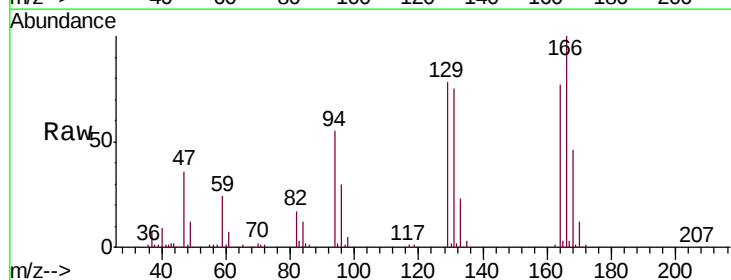
Ion Ratio Lower Upper

164 100

129 102.0 70.1 130.3

131 98.5 66.2 123.0

166 130.7 88.8 164.8



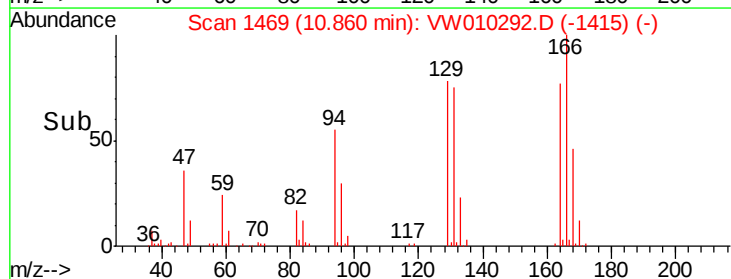
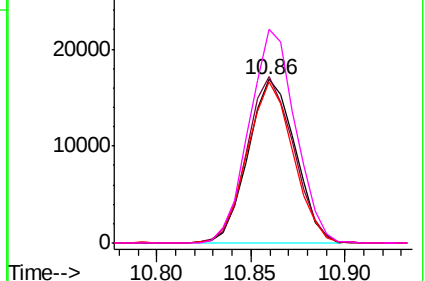
Abundance

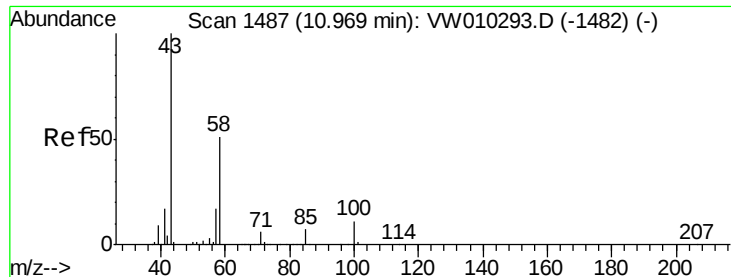
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 8.642 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

VSTD00505

Tgt Ion: 43 Resp: 44140

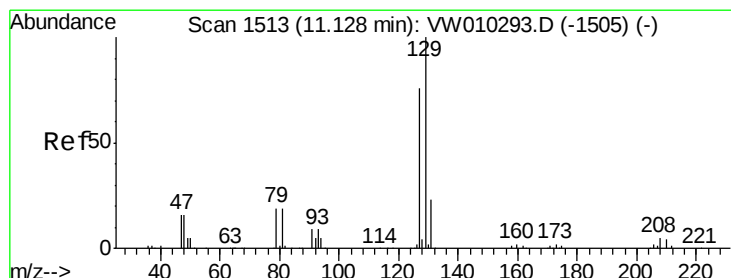
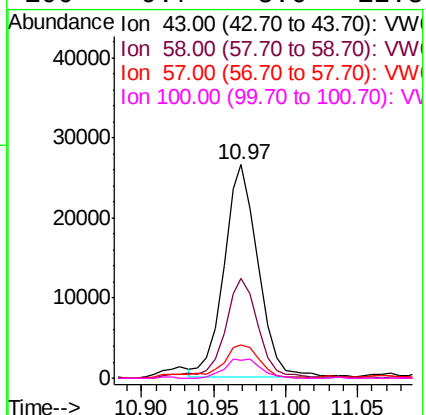
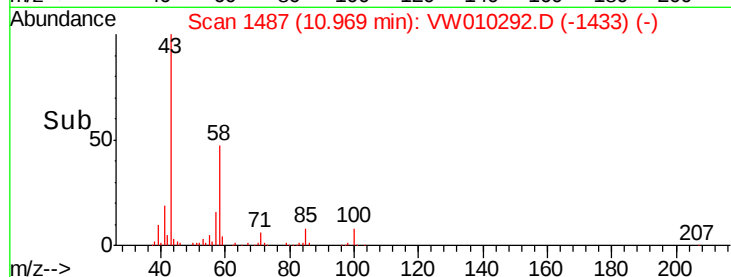
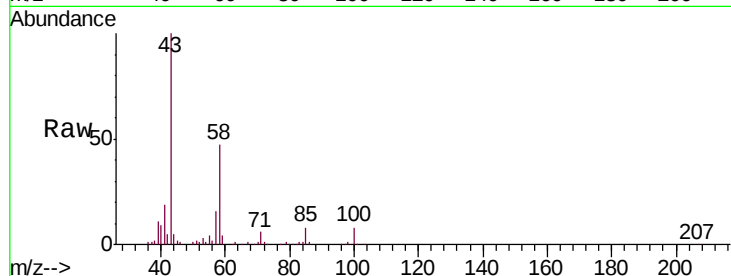
Ion Ratio Lower Upper

43 100

58 44.6 39.2 58.8

57 15.8 14.1 21.1

100 9.7 8.6 12.8



#50

Dibromochloromethane

Concen: 4.874 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW010292.D

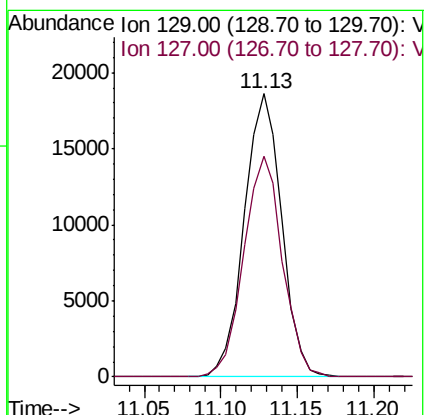
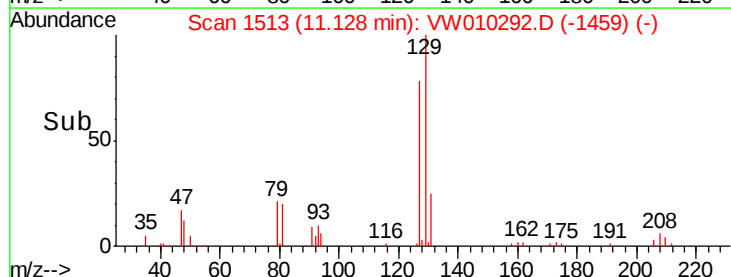
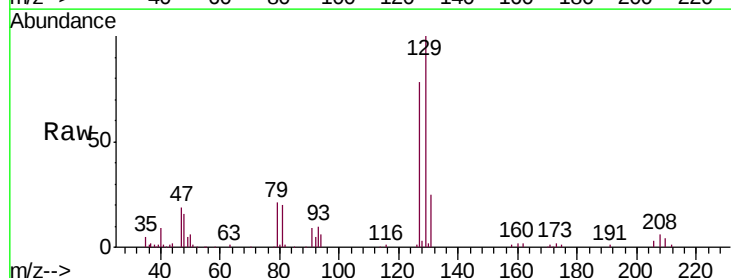
Acq: 07 May 2019 10:49

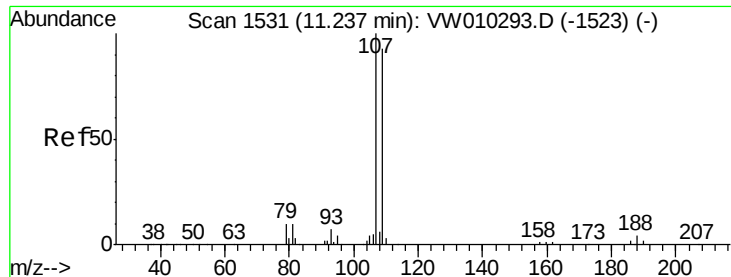
Tgt Ion: 129 Resp: 31660

Ion Ratio Lower Upper

129 100

127 77.8 53.3 99.1

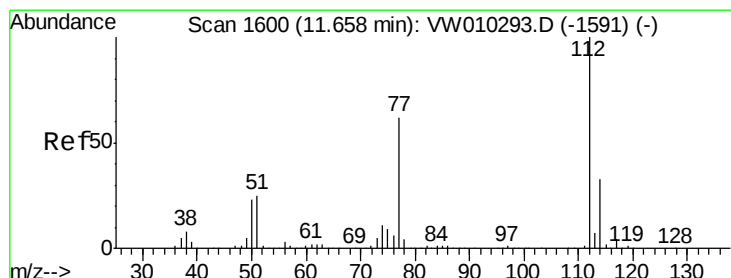
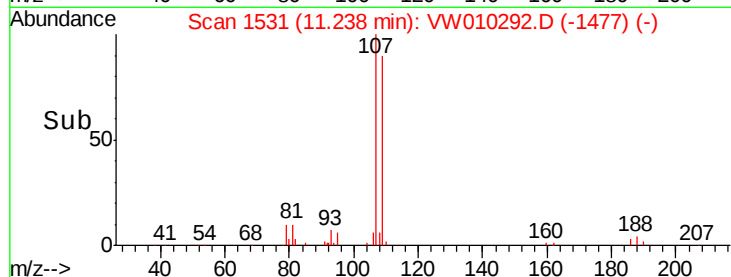
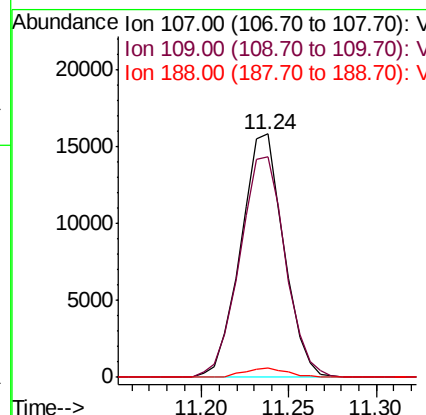
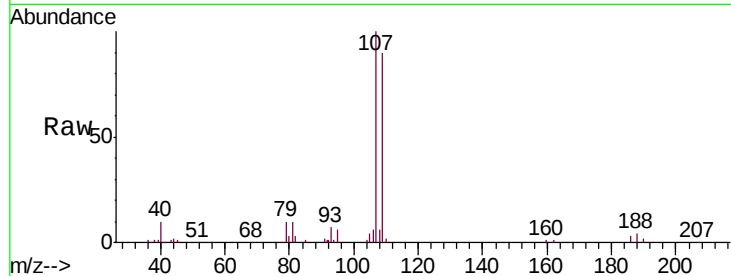




#51  
1,2-Dibromoethane  
Concen: 4.859 ug/L  
RT: 11.24 min Scan# 1531  
Delta R.T. 0.00 min  
Lab File: VW010292.D  
Acq: 07 May 2019 10:49

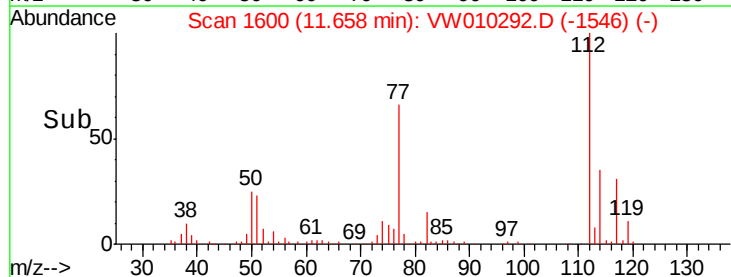
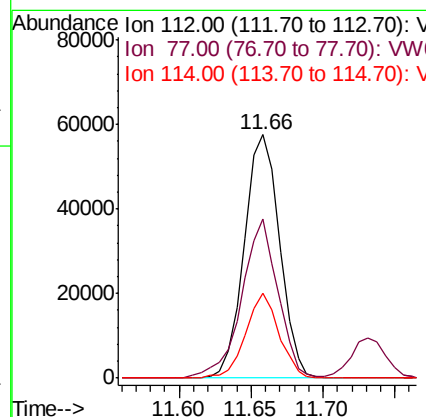
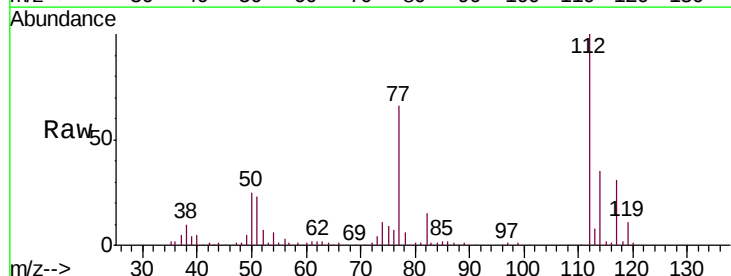
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD00505

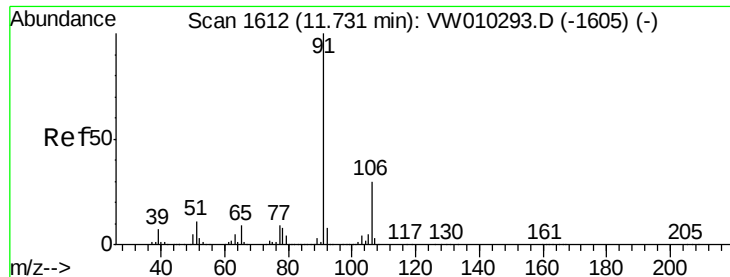
Tgt Ion:107 Resp: 27029  
Ion Ratio Lower Upper  
107 100  
109 90.4 65.3 121.3  
188 4.0 2.8 4.2



#52  
Chlorobenzene  
Concen: 5.040 ug/L  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW010292.D  
Acq: 07 May 2019 10:49

Tgt Ion:112 Resp: 97686  
Ion Ratio Lower Upper  
112 100  
77 65.5 49.3 73.9  
114 34.7 22.9 42.5





#53

Ethylbenzene

Concen: 4.788 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

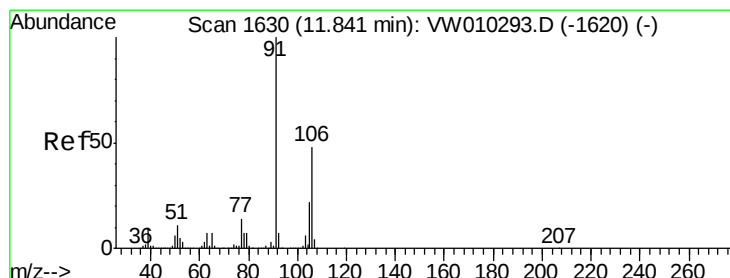
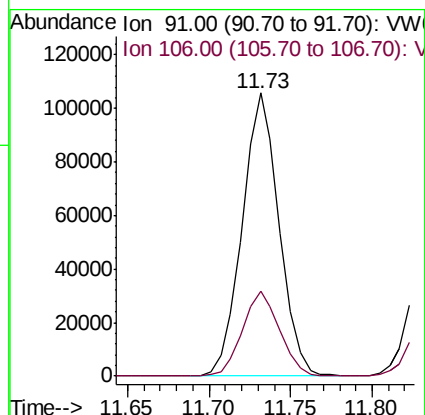
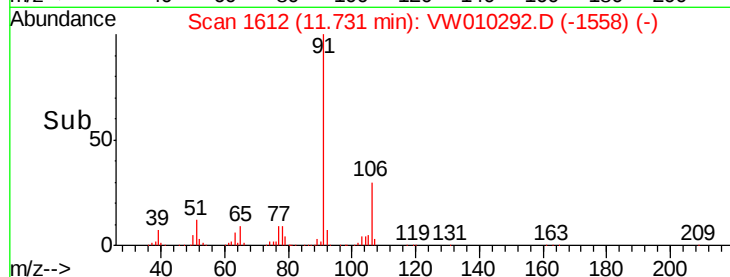
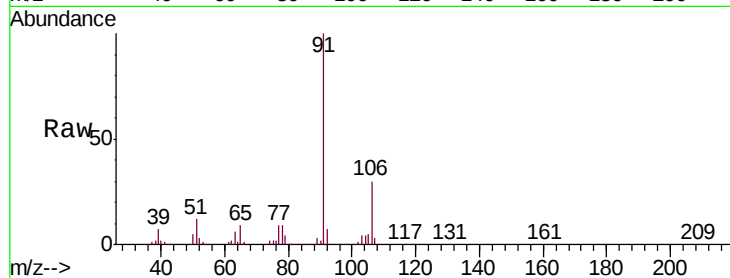
VSTD00505

Tgt Ion: 91 Resp: 165819

Ion Ratio Lower Upper

91 100

106 30.0 21.0 39.0



#54

m,p-Xylene

Concen: 4.704 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW010292.D

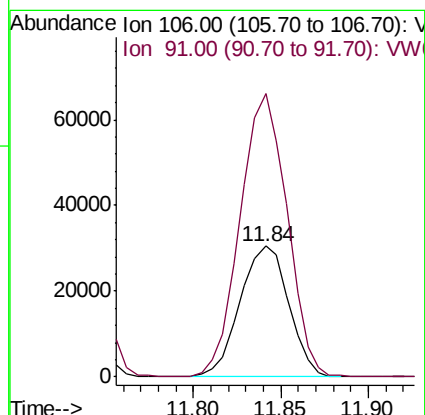
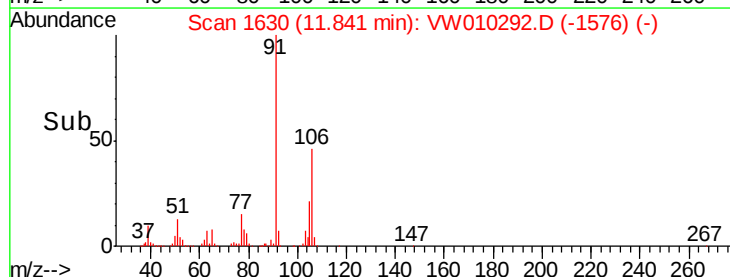
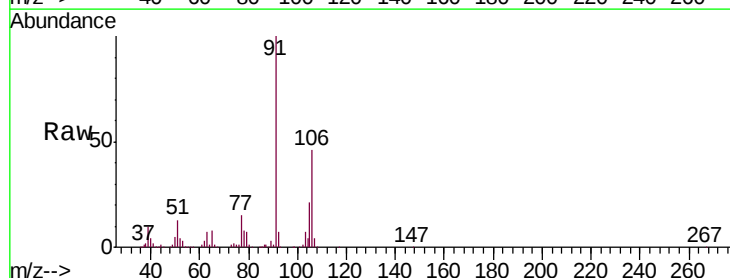
Acq: 07 May 2019 10:49

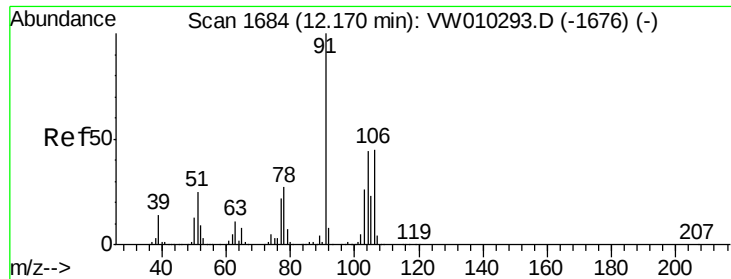
Tgt Ion: 106 Resp: 59272

Ion Ratio Lower Upper

106 100

91 216.1 145.5 270.1

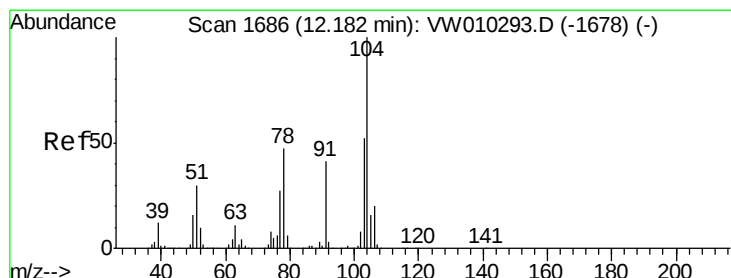
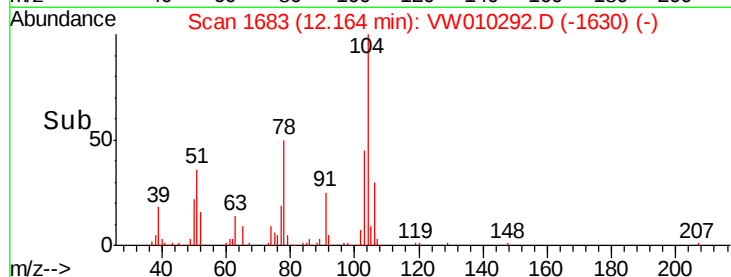
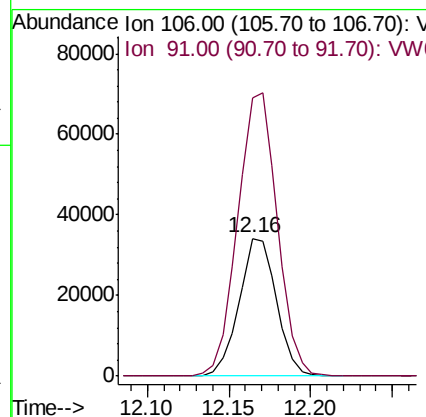
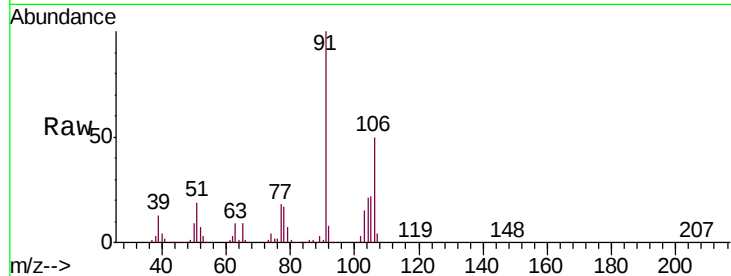




#55  
o-xylene  
Concen: 4.661 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.01 min  
Lab File: VW010292.D  
Acq: 07 May 2019 10:49

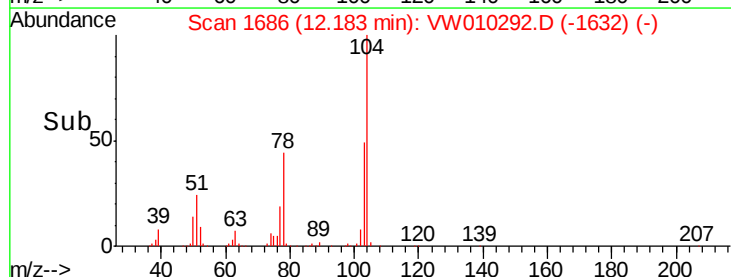
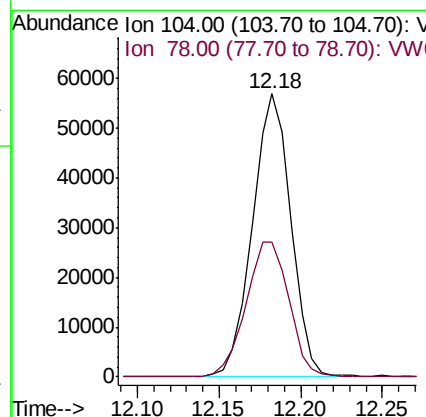
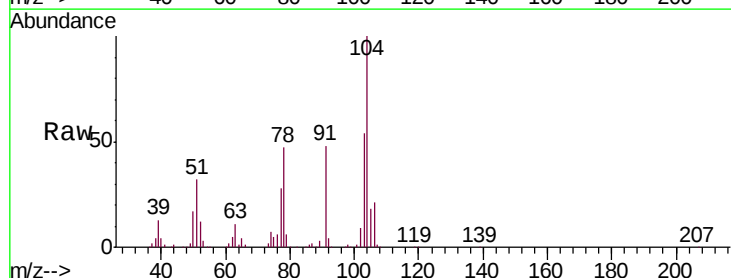
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD00505

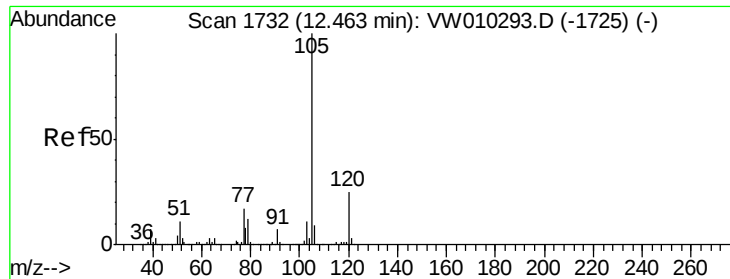
Tgt Ion:106 Resp: 54676  
Ion Ratio Lower Upper  
106 100  
91 201.9 154.6 287.2



#56  
Styrene  
Concen: 4.603 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW010292.D  
Acq: 07 May 2019 10:49

Tgt Ion:104 Resp: 93167  
Ion Ratio Lower Upper  
104 100  
78 47.5 33.3 61.9





#57

Isopropylbenzene

Concen: 4.552 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

VSTD00505

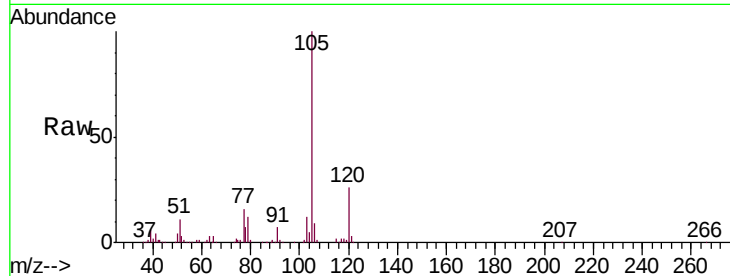
Tgt Ion: 105 Resp: 146721

Ion Ratio Lower Upper

105 100

120 26.4 20.5 30.7

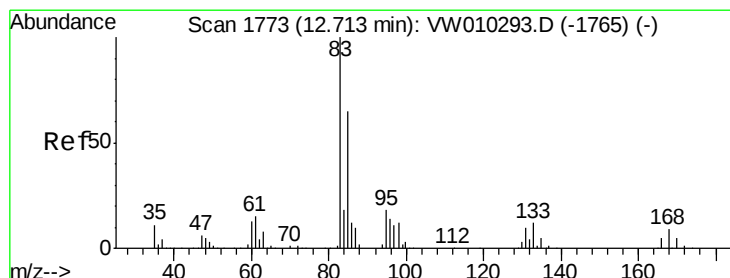
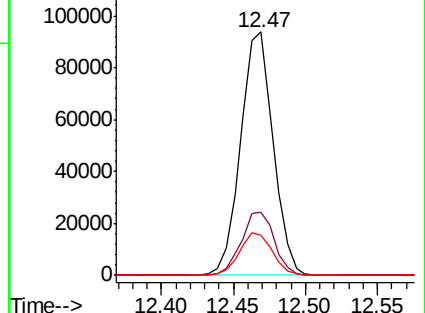
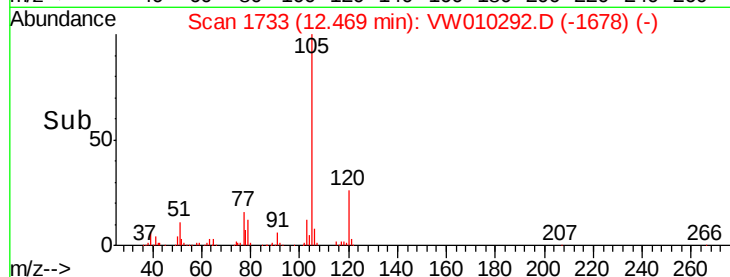
77 17.5 13.5 20.3



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: 4.966 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

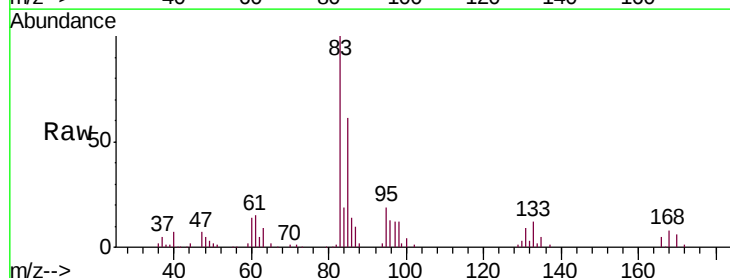
Tgt Ion: 83 Resp: 38545

Ion Ratio Lower Upper

83 100

85 60.6 45.6 84.8

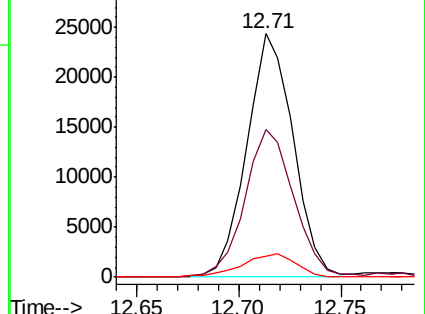
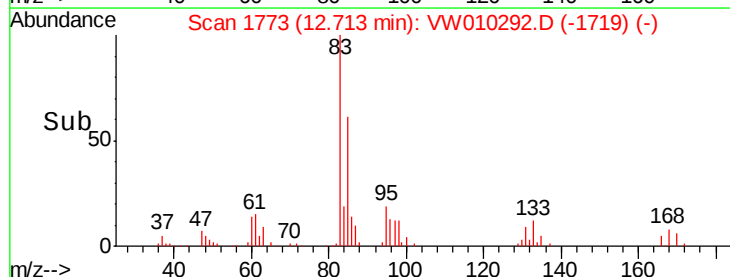
131 8.8 8.2 12.4

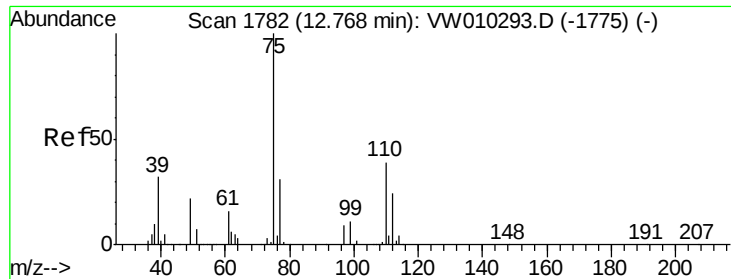


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 4.800 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

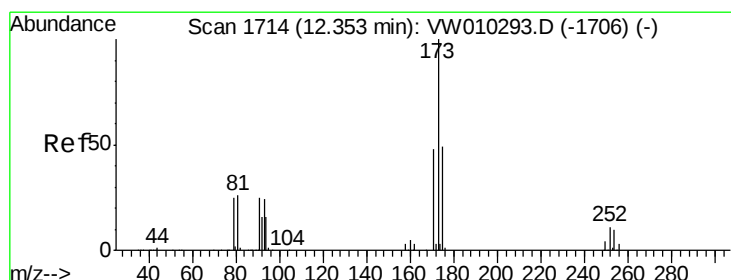
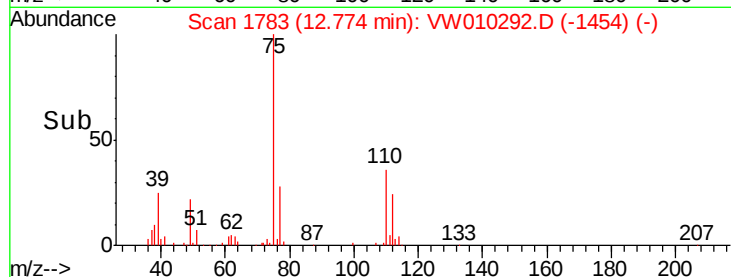
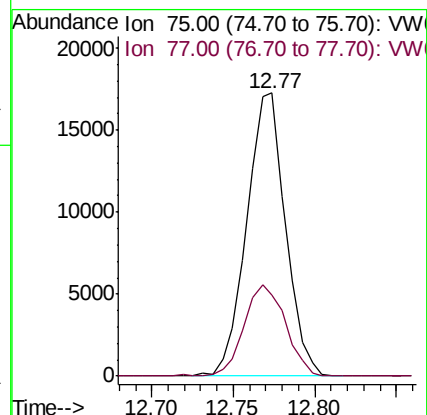
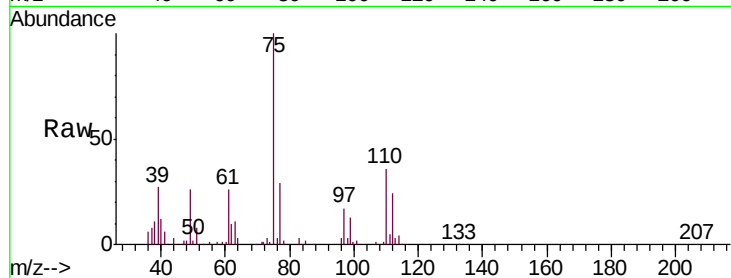
VSTD00505

Tgt Ion: 75 Resp: 28595

Ion Ratio Lower Upper

75 100

77 34.3 25.7 38.5



#62

Bromoform

Concen: 4.958 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.01 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

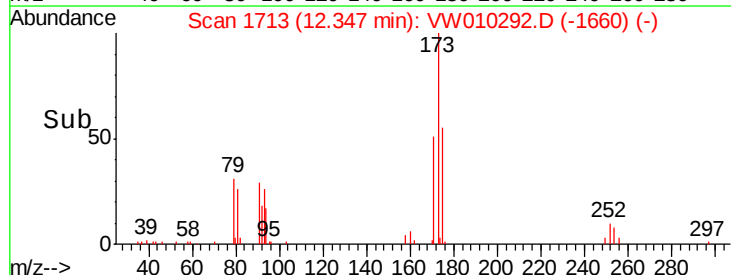
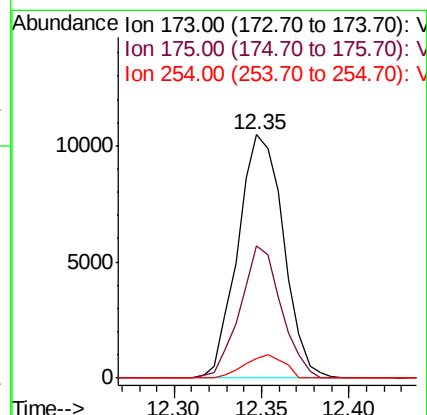
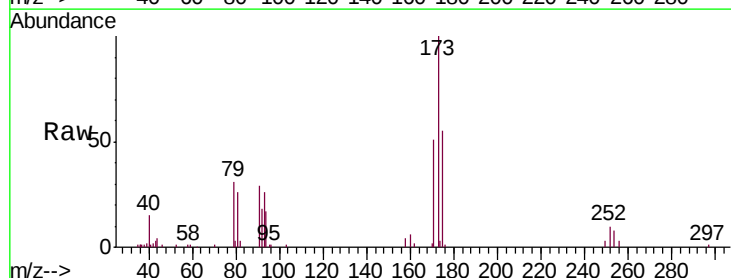
Tgt Ion: 173 Resp: 19075

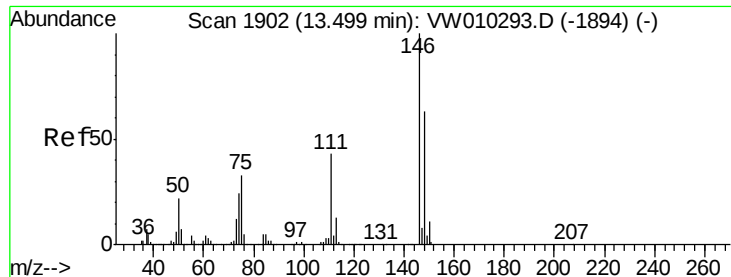
Ion Ratio Lower Upper

173 100

175 49.1 39.4 59.2

254 8.4 7.5 11.3

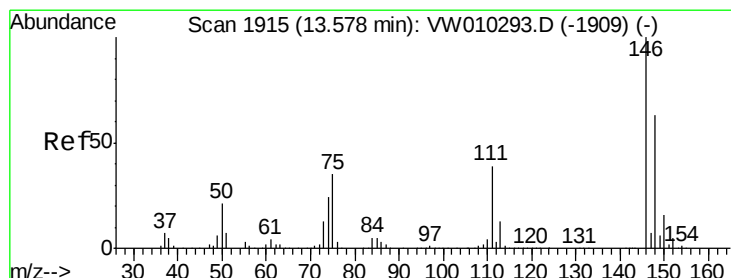
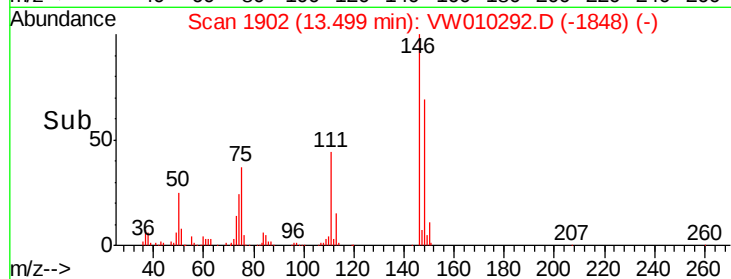
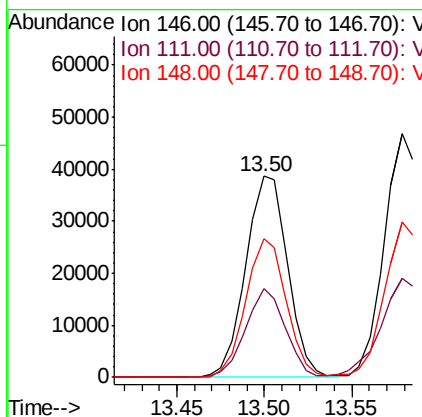
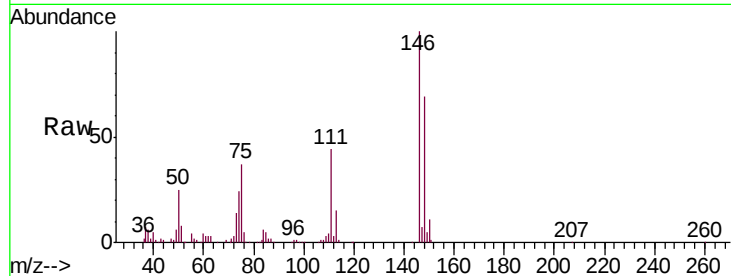




#63  
 1,3-Dichlorobenzene  
 Concen: 4.846 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW010292.D  
 Acq: 07 May 2019 10:49

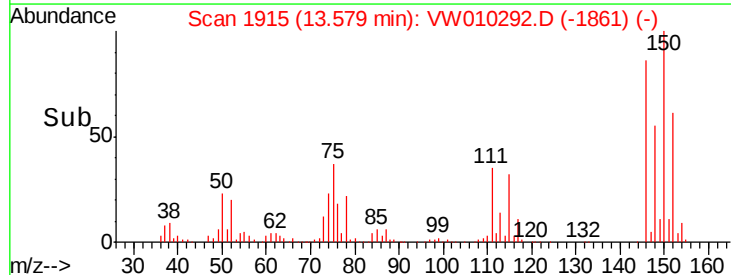
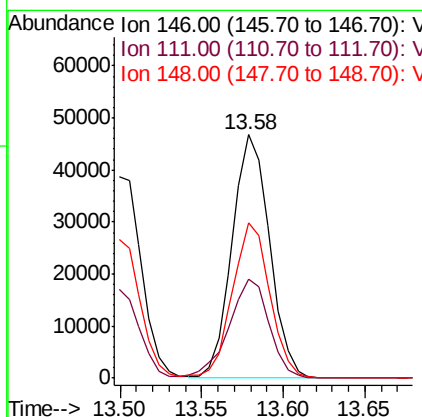
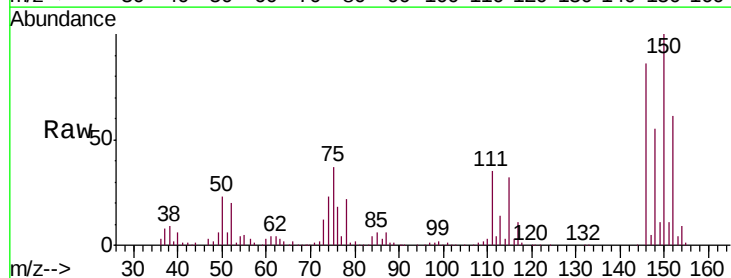
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00505

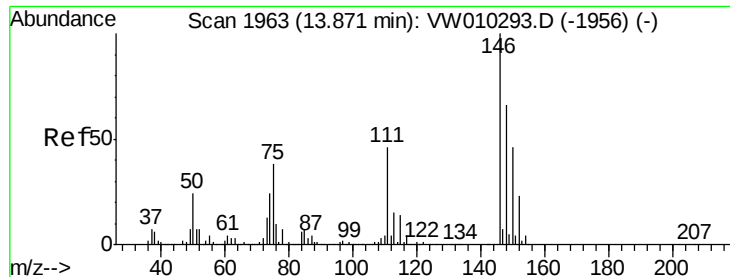
Tgt Ion:146 Resp: 64543  
 Ion Ratio Lower Upper  
 146 100  
 111 44.0 30.0 55.8  
 148 68.9 43.9 81.5



#64  
 1,4-Dichlorobenzene  
 Concen: 5.196 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW010292.D  
 Acq: 07 May 2019 10:49

Tgt Ion:146 Resp: 74952  
 Ion Ratio Lower Upper  
 146 100  
 111 40.8 27.4 51.0  
 148 63.7 44.0 81.6

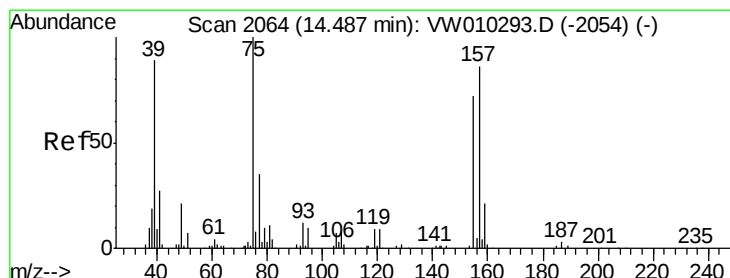
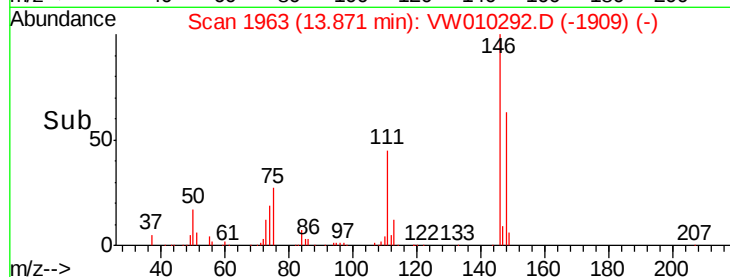
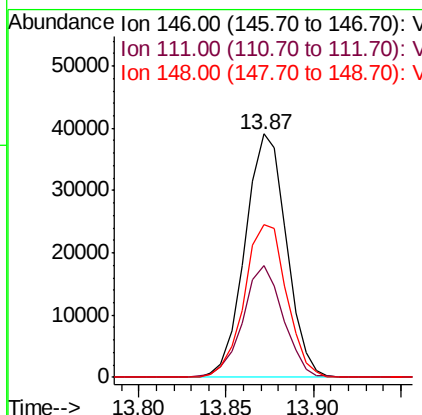
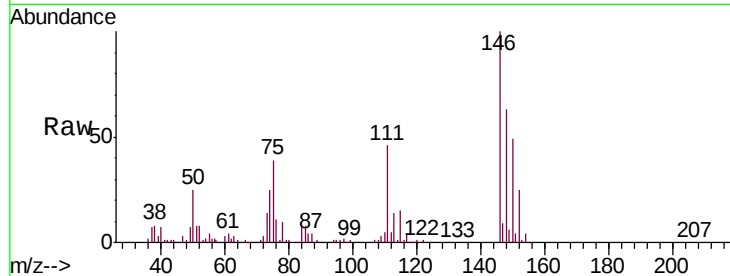




#65  
 1,2-Dichlorobenzene  
 Concen: 5.022 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.00 min  
 Lab File: VW010292.D  
 Acq: 07 May 2019 10:49

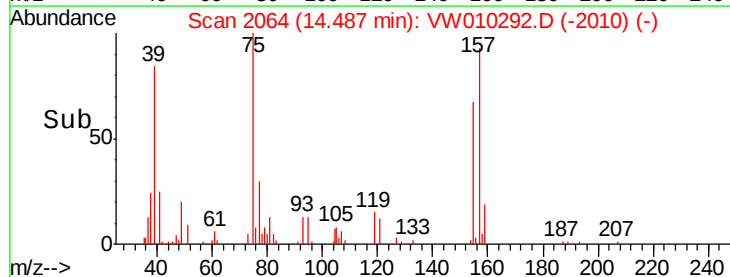
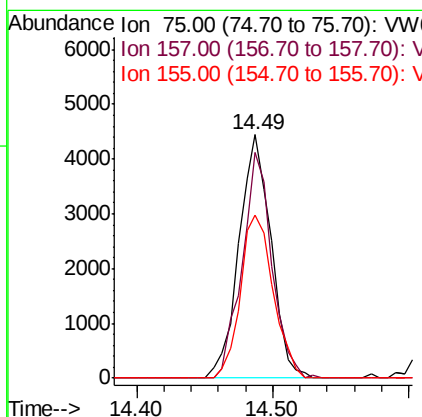
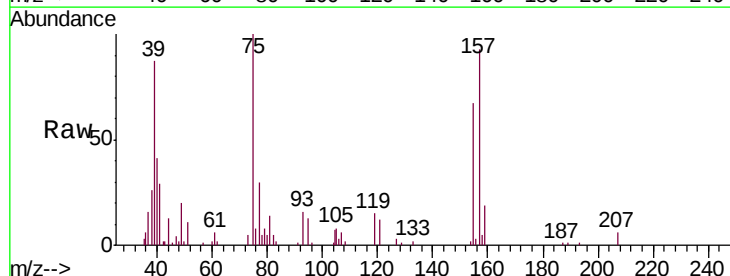
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00505

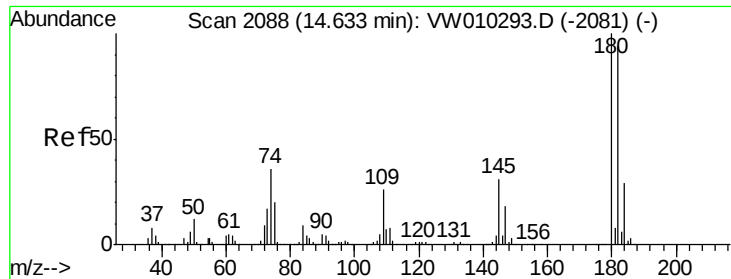
Tgt Ion:146 Resp: 64349  
 Ion Ratio Lower Upper  
 146 100  
 111 46.0 36.8 55.2  
 148 63.0 52.9 79.3



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.773 ug/L  
 RT: 14.49 min Scan# 2064  
 Delta R.T. 0.00 min  
 Lab File: VW010292.D  
 Acq: 07 May 2019 10:49

Tgt Ion: 75 Resp: 7288  
 Ion Ratio Lower Upper  
 75 100  
 157 92.7 68.6 103.0  
 155 69.9 57.3 85.9

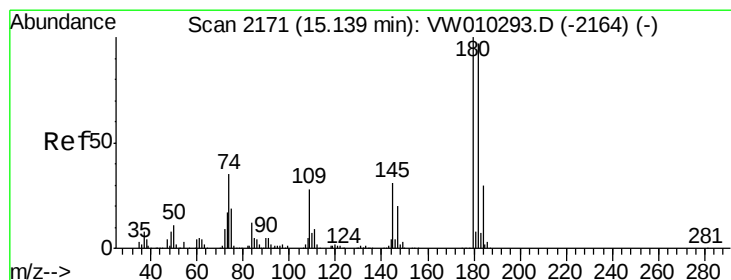
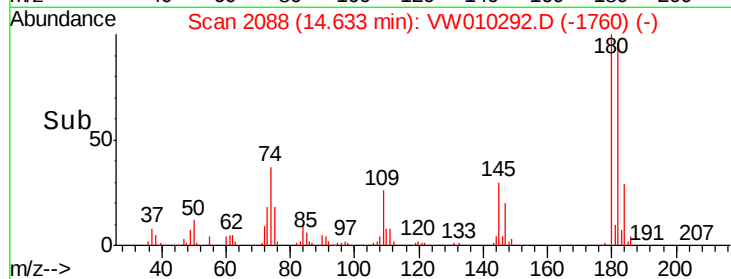
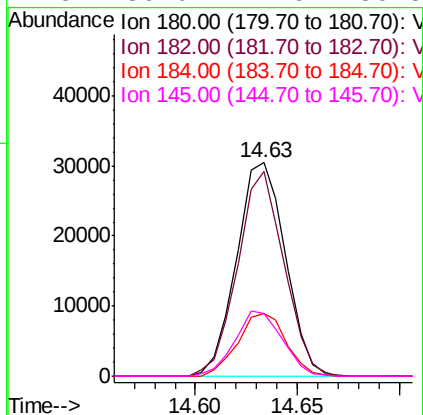
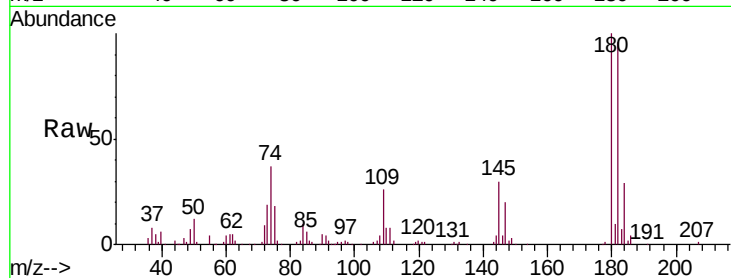




#67  
 1,3,5-Trichlorobenzene  
 Concen: 5.078 ug/L  
 RT: 14.63 min Scan# 2088  
 Delta R.T. 0.00 min  
 Lab File: VW010292.D  
 Acq: 07 May 2019 10:49

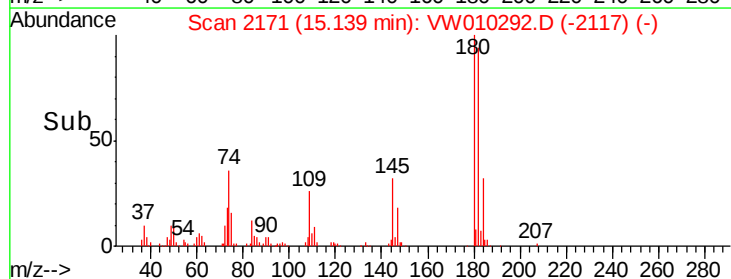
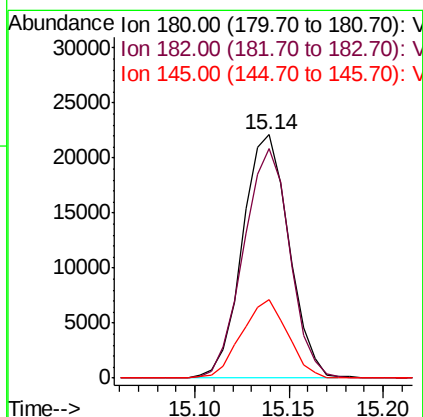
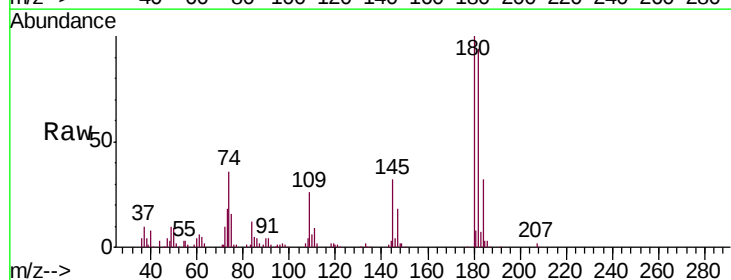
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD00505

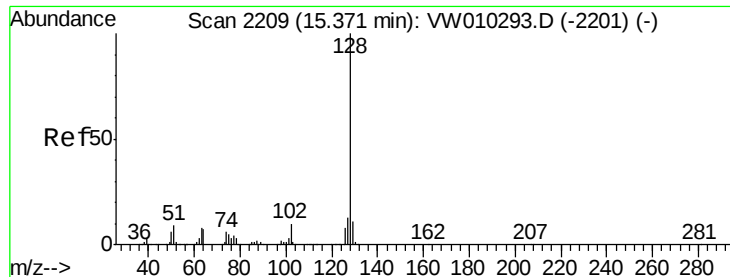
Tgt Ion:180 Resp: 50657  
 Ion Ratio Lower Upper  
 180 100  
 182 91.3 75.4 113.0  
 184 29.0 23.8 35.8  
 145 30.0 24.6 36.8



#68  
 1,2,4-trichlorobenzene  
 Concen: 4.802 ug/L  
 RT: 15.14 min Scan# 2171  
 Delta R.T. 0.00 min  
 Lab File: VW010292.D  
 Acq: 07 May 2019 10:49

Tgt Ion:180 Resp: 37916  
 Ion Ratio Lower Upper  
 180 100  
 182 93.8 77.0 115.6  
 145 31.8 25.0 37.4





#69

Naphthalene

Concen: 3.960 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

Instrument :

MSVOA\_W

ClientSampleId :

VSTD00505

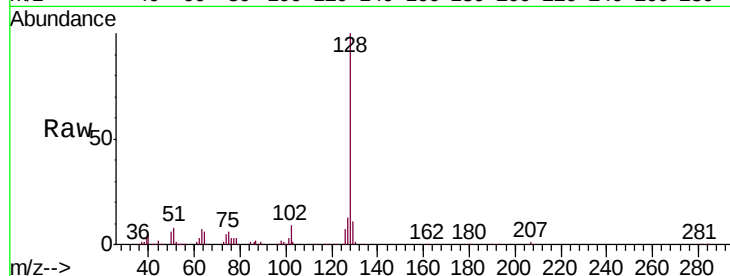
Tgt Ion:128 Resp: 70512

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

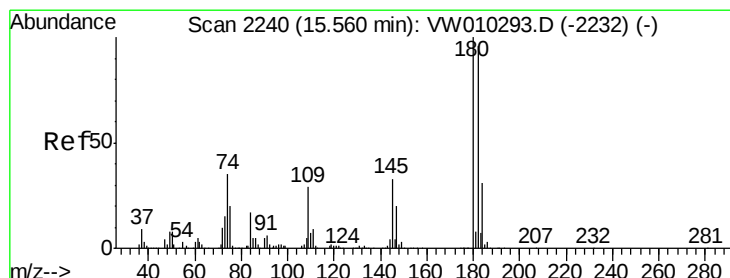
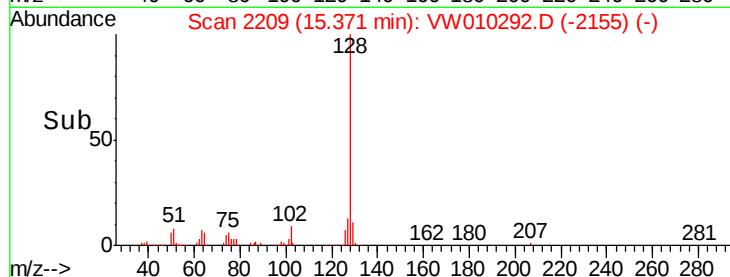
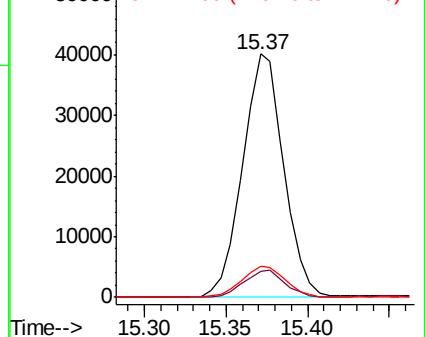
127 13.4 10.8 16.2



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: 4.801 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW010292.D

Acq: 07 May 2019 10:49

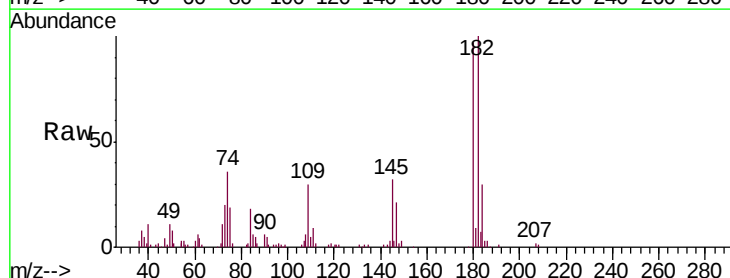
Tgt Ion:180 Resp: 36413

Ion Ratio Lower Upper

180 100

182 96.6 75.8 113.6

145 34.2 26.7 40.1



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

