

Data File : VW013893.D  
Acq On : 01 Nov 2019 11:55  
Operator : SY/VA  
Sample : VSTD05018  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05002

Quant Time: Nov 01 12:31:21 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110119S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 01 12:21:46 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 301404   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 294652   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 181284   | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 2.36  | 65  | 222604 | 48.51  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 184374 | 51.36  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.03  | 63  | 465953 | 50.75  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.07  | 46  | 174737 | 108.35 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 468126 | 50.75  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 252958 | 50.43  | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 980532 | 51.36  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 294160 | 51.41  | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 935726 | 51.26  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.57 | 79  | 138855 | 53.05  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.92 | 63  | 150974 | 114.64 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 271001 | 52.11  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 353294 | 50.60  | ug/L | 0.00 |

Target Compounds

|                                |       |     |         |         |      | Qvalue |
|--------------------------------|-------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 178672  | 53.615  | ug/L | 96     |
| 3) Chloromethane               | 2.21  | 50  | 183641  | 51.260  | ug/L | 99     |
| 5) Vinyl chloride              | 2.37  | 62  | 262944  | 51.766  | ug/L | 100    |
| 6) Bromomethane                | 2.78  | 94  | 163354  | 51.044  | ug/L | 100    |
| 8) Chloroethane                | 2.92  | 64  | 155416  | 54.180  | ug/L | 96     |
| 9) Trichlorofluoromethane      | 3.25  | 101 | 132262  | 59.716  | ug/L | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07  | 101 | 260413  | 52.332  | ug/L | 100    |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 265144  | 53.133  | ug/L | 92     |
| 13) Acetone                    | 4.12  | 43  | 134458  | 89.090  | ug/L | 98     |
| 14) Carbon disulfide           | 4.39  | 76  | 773449  | 53.328  | ug/L | 99     |
| 15) Methyl Acetate             | 4.67  | 43  | 149402  | 53.763  | ug/L | 100    |
| 16) Methylene chloride         | 4.92  | 84  | 266421  | 45.215  | ug/L | 96     |
| 17) Methyl tert-butyl Ether    | 5.42  | 73  | 346044  | 55.690  | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 275300  | 52.669  | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 467221  | 52.256  | ug/L | 97     |
| 21) 2-Butanone                 | 7.17  | 43  | 217634  | 100.495 | ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 297309  | 53.138  | ug/L | 95     |
| 23) Bromochloromethane         | 7.51  | 128 | 136783  | 52.368  | ug/L | 94     |
| 25) Chloroform                 | 7.67  | 83  | 463070  | 51.589  | ug/L | 98     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 310262  | 52.554  | ug/L | 99     |
| 30) Cyclohexane                | 7.95  | 56  | 471244  | 55.719  | ug/L | 100    |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 359688  | 53.263  | ug/L | 100    |
| 32) Carbon tetrachloride       | 8.07  | 117 | 359541  | 53.487  | ug/L | 99     |
| 34) Benzene                    | 8.32  | 78  | 1085487 | 53.125  | ug/L | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 283943  | 52.654  | ug/L | 99     |
| 36) Methylcyclohexane          | 9.34  | 83  | 510075  | 54.640  | ug/L | 99     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 269429  | 53.376  | ug/L | 99     |
| 41) Bromodichloromethane       | 9.64  | 83  | 345146  | 54.445  | ug/L | 98     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 442531  | 55.843  | ug/L | 99     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 431247  | 110.722 | ug/L | 100    |

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MSVOA\_W  
ClientSampleId :  
VSTD05002

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Quant Title : VOC Analysis  
QLast Update : Fri Nov 01 12:21:46 2019  
Response via : Initial Calibration

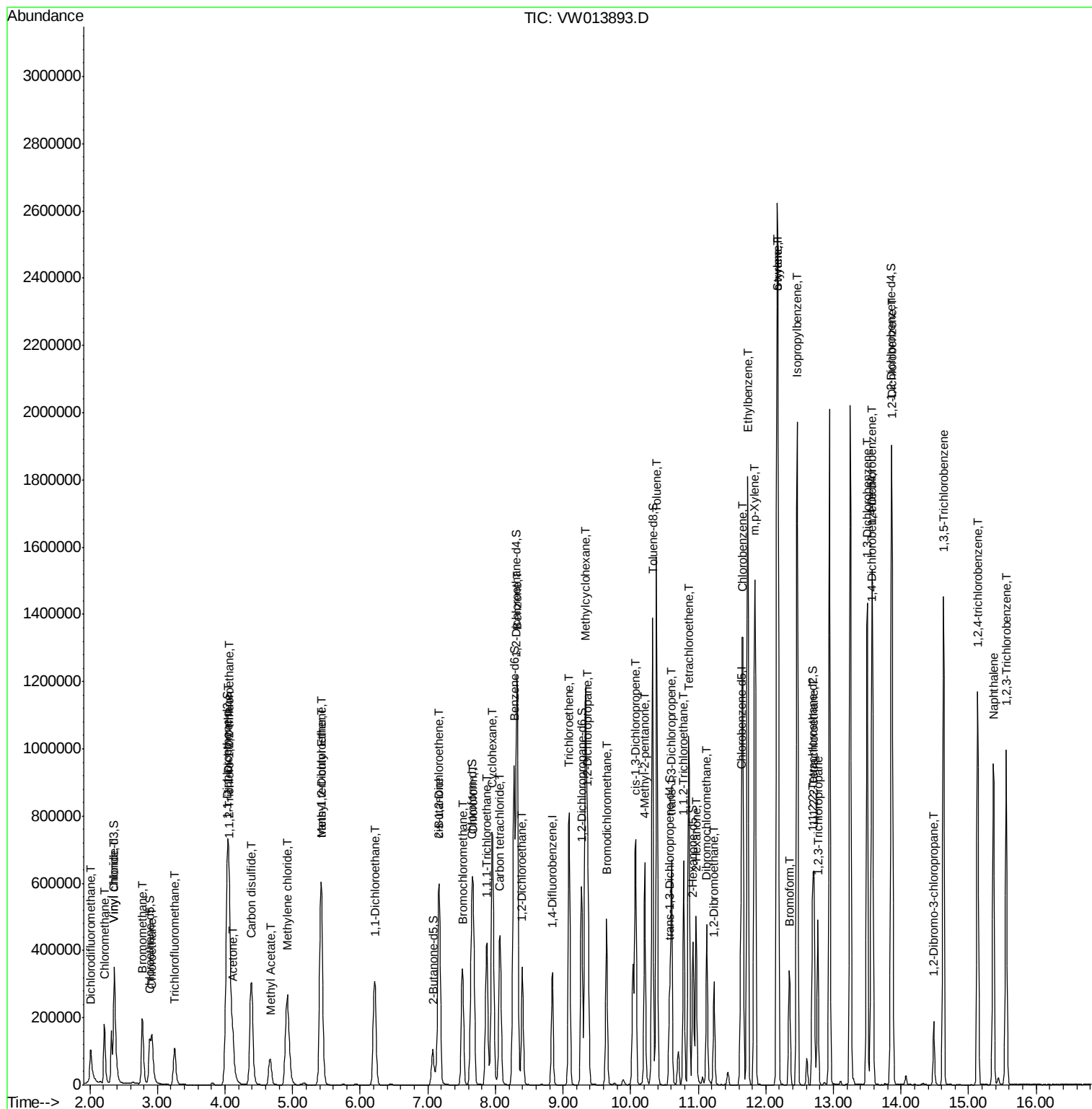
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 44) Toluene                    | 10.38 | 91   | 1190134  | 53.944  | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 370052   | 57.256  | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 213990   | 52.579  | ug/L  | 97       |
| 47) Tetrachloroethene          | 10.86 | 164  | 256746   | 53.014  | ug/L  | 99       |
| 49) 2-Hexanone                 | 10.97 | 43   | 317202   | 113.809 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 261958   | 55.365  | ug/L  | 98       |
| 51) 1,2-Dibromoethane          | 11.23 | 107  | 215251   | 54.036  | ug/L  | 100      |
| 52) Chlorobenzene              | 11.66 | 112  | 759654   | 53.096  | ug/L  | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 1317413  | 54.095  | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 517377   | 54.302  | ug/L  | 95       |
| 55) o-xylene                   | 12.16 | 106  | 488710   | 54.496  | ug/L  | 100      |
| 56) Styrene                    | 12.18 | 104  | 858468   | 55.791  | ug/L  | 96       |
| 57) Isopropylbenzene           | 12.46 | 105  | 1330217  | 55.425  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 276909   | 54.196  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 205832   | 52.872  | ug/L  | 99       |
| 62) Bromoform                  | 12.35 | 173  | 172294   | 54.624  | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 638687   | 53.979  | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 637227   | 53.094  | ug/L  | 95       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 580487   | 53.078  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 47627    | 55.099  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 490340   | 53.868  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 412782   | 56.538  | ug/L  | 99       |
| 69) Naphthalene                | 15.36 | 128  | 855873   | 60.935  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 381053   | 56.450  | ug/L  | 100      |

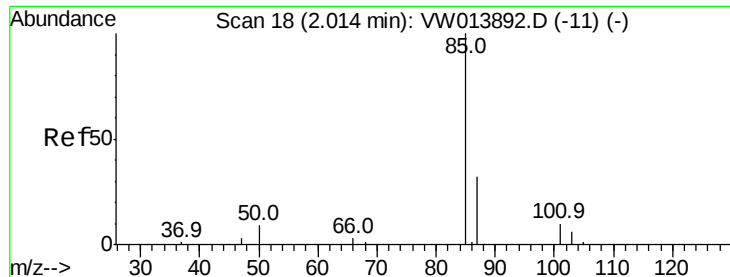
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#2

Dichlorodifluoromethane

Concen: 53.615 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

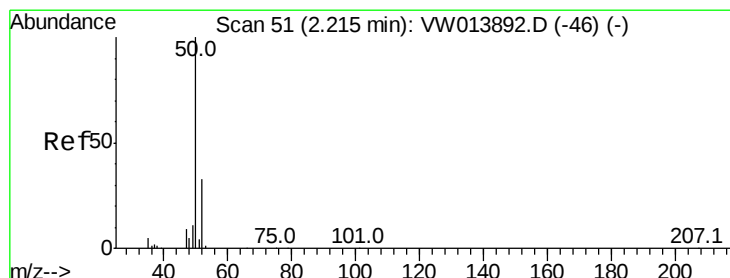
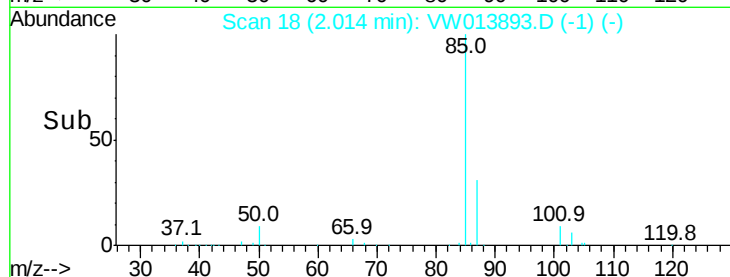
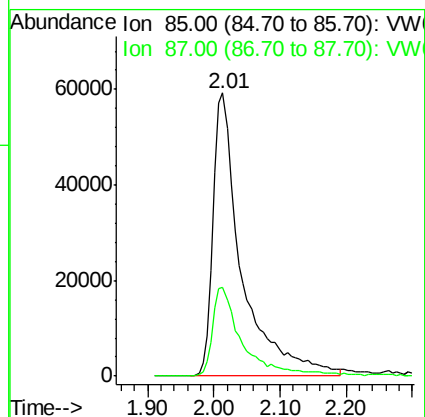
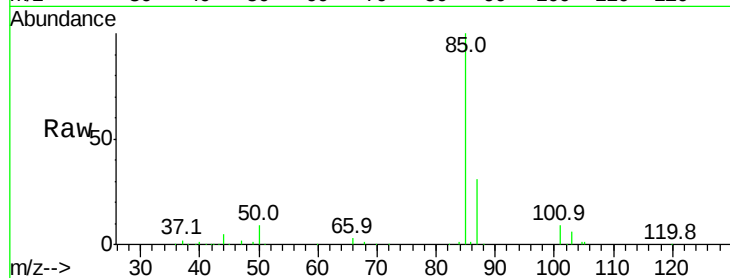
VSTD05002

Tgt Ion: 85 Resp: 178672

Ion Ratio Lower Upper

85 100

87 28.4 21.6 40.2



#3

Chloromethane

Concen: 51.260 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW013893.D

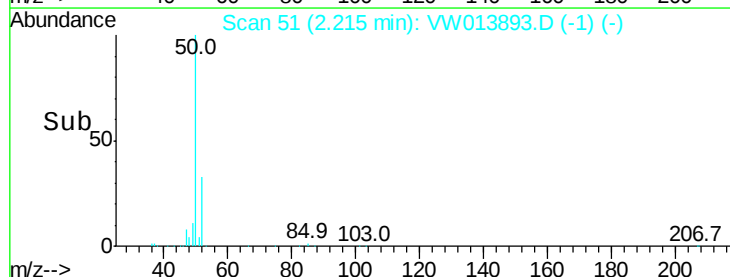
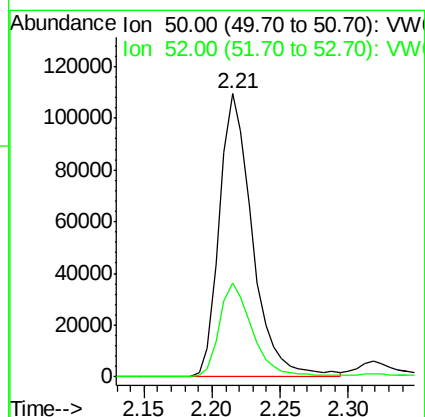
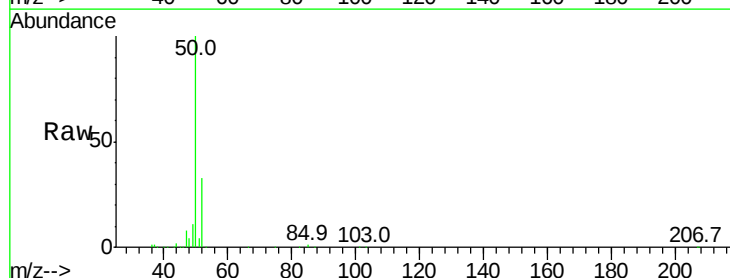
Acq: 01 Nov 2019 11:55

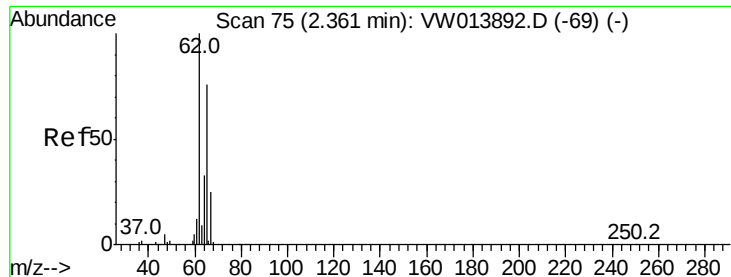
Tgt Ion: 50 Resp: 183641

Ion Ratio Lower Upper

50 100

52 33.3 23.0 42.6





#5

Vinyl chloride

Concen: 51.766 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.01 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

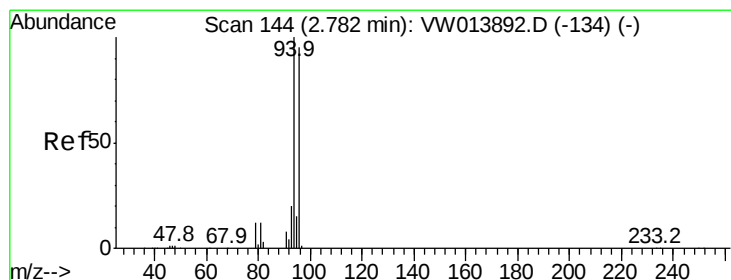
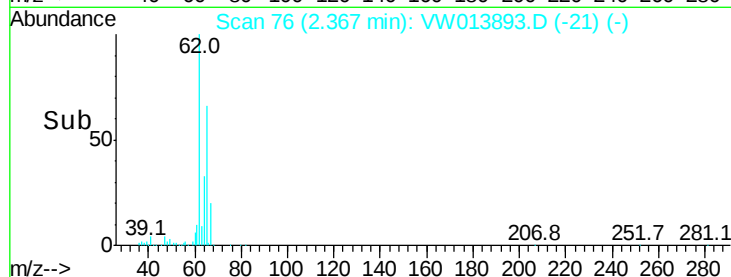
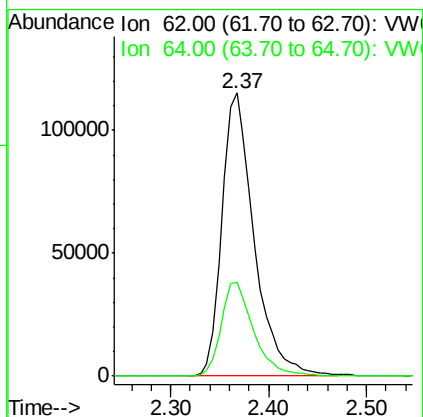
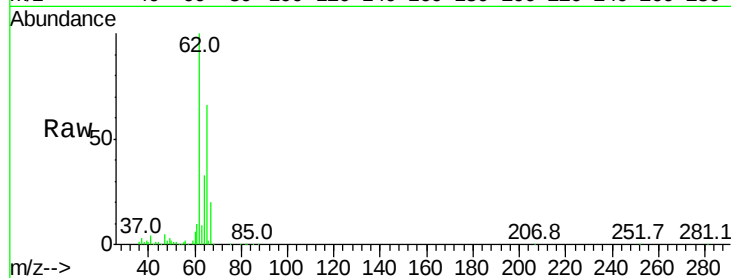
VSTD05002

Tgt Ion: 62 Resp: 262944

Ion Ratio Lower Upper

62 100

64 33.4 23.3 43.3



#6

Bromomethane

Concen: 51.044 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW013893.D

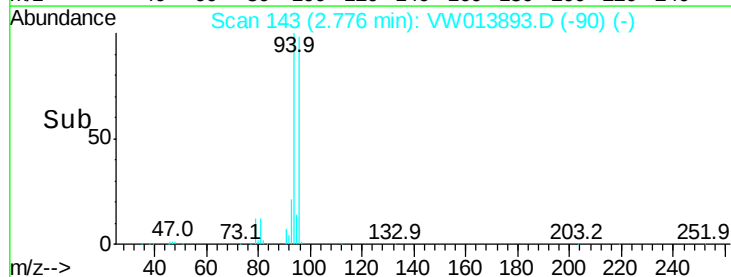
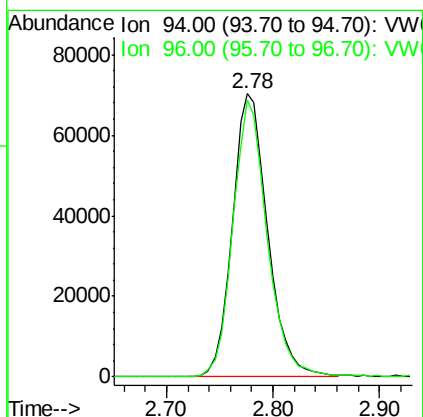
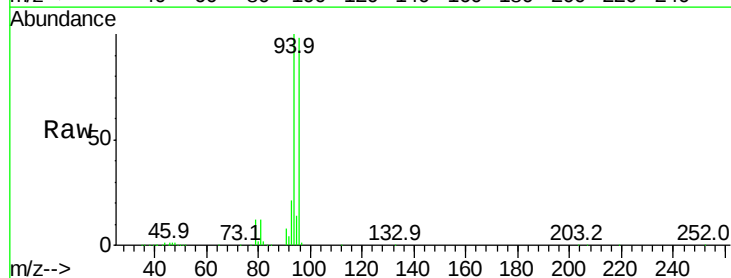
Acq: 01 Nov 2019 11:55

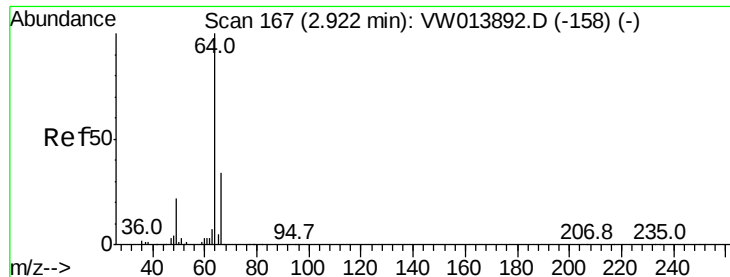
Tgt Ion: 94 Resp: 163354

Ion Ratio Lower Upper

94 100

96 94.8 9.5 179.7





#8

Chloroethane

Concen: 54.180 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

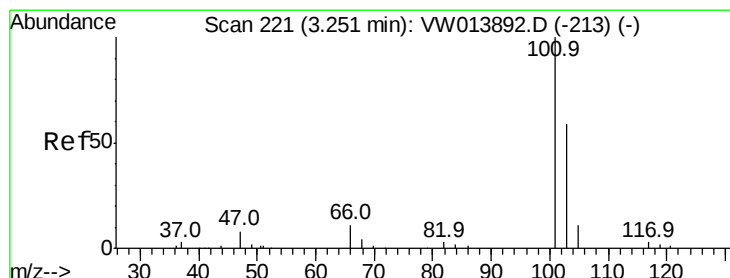
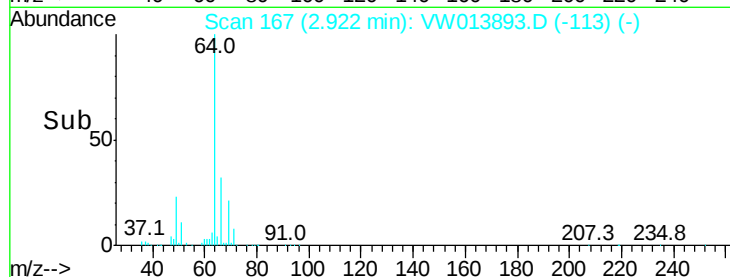
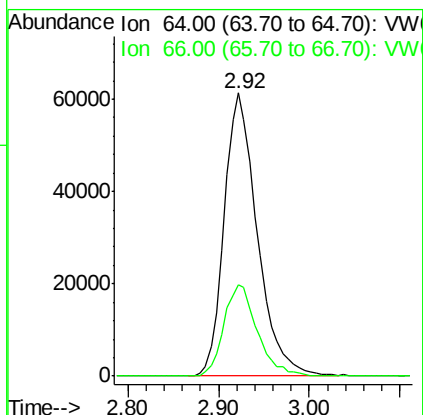
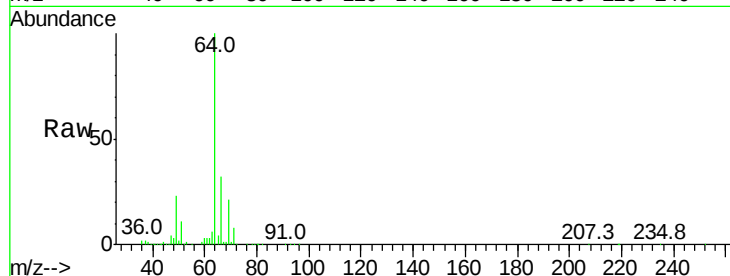
VSTD05002

Tgt Ion: 64 Resp: 155416

Ion Ratio Lower Upper

64 100

66 32.3 24.1 44.7



#9

Trichlorofluoromethane

Concen: 59.716 ug/L

RT: 3.25 min Scan# 221

Delta R.T. 0.00 min

Lab File: VW013893.D

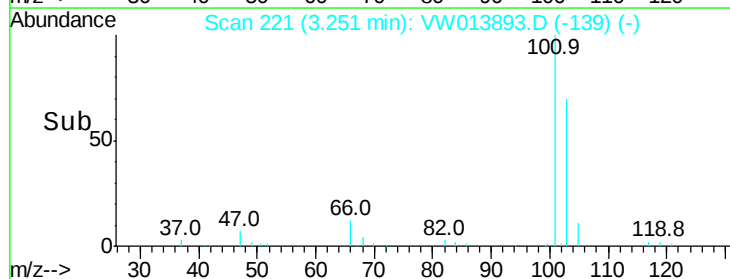
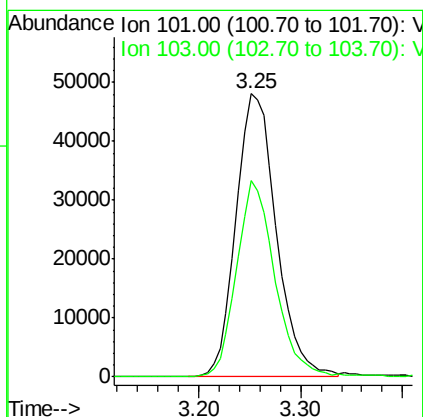
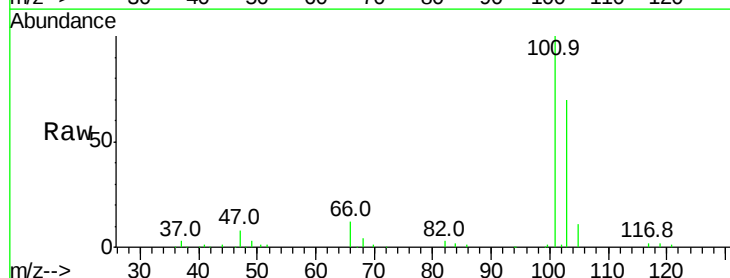
Acq: 01 Nov 2019 11:55

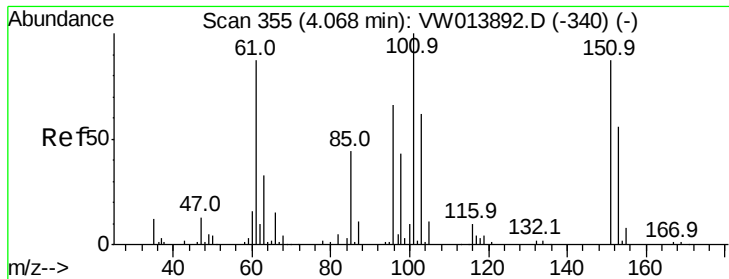
Tgt Ion: 101 Resp: 132262

Ion Ratio Lower Upper

101 100

103 65.3 44.9 83.3





#11

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

Concen: 52.332 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTD05002

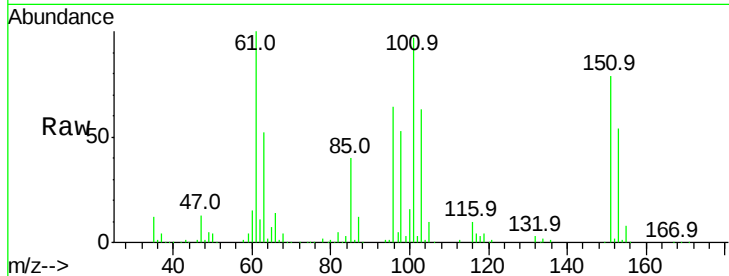
Tgt Ion: 101 Resp: 260413

Ion Ratio Lower Upper

101 100

85 39.2 30.9 46.3

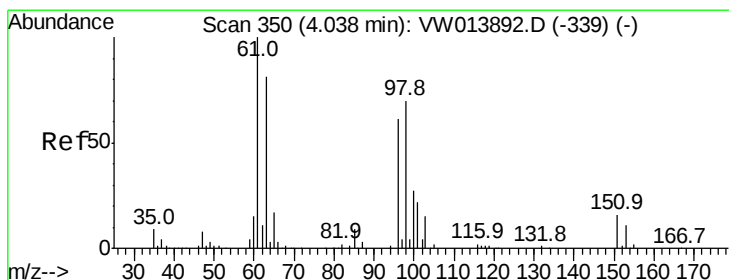
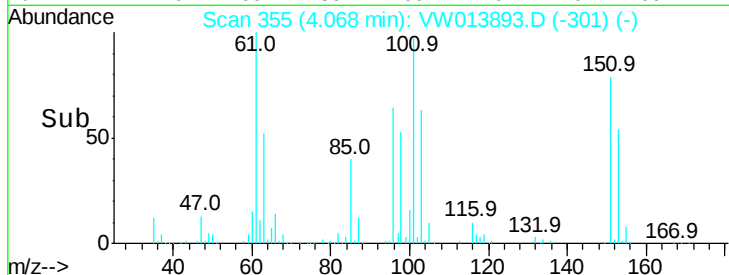
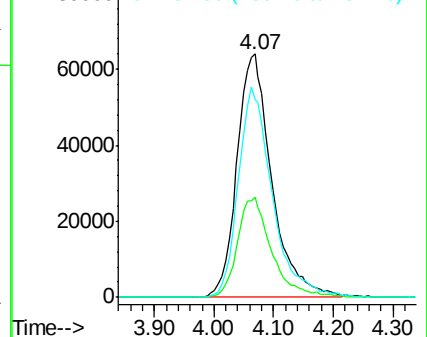
151 83.1 66.3 99.5



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: 53.133 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

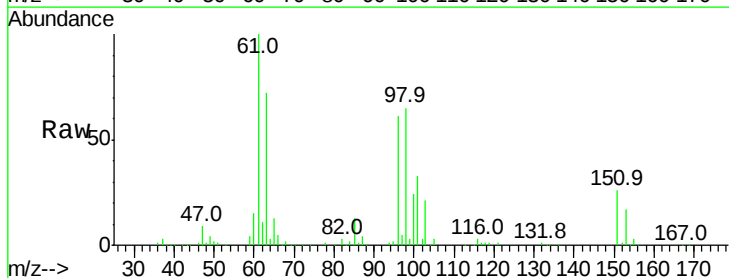
Tgt Ion: 96 Resp: 265144

Ion Ratio Lower Upper

96 100

61 164.6 115.1 213.8

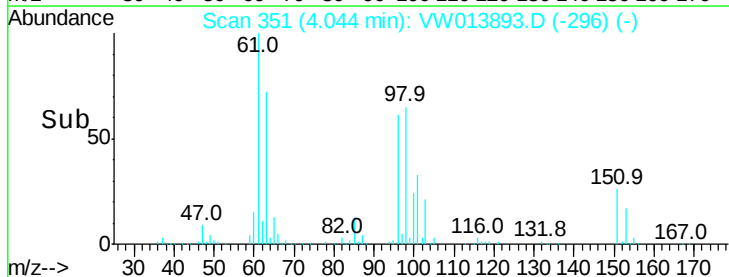
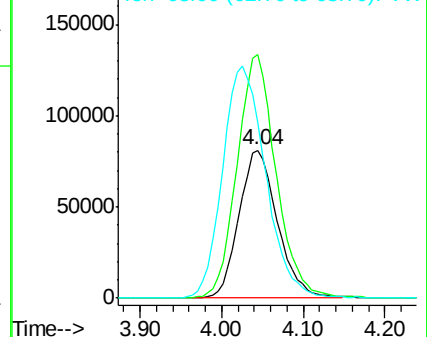
63 119.1 97.4 180.8

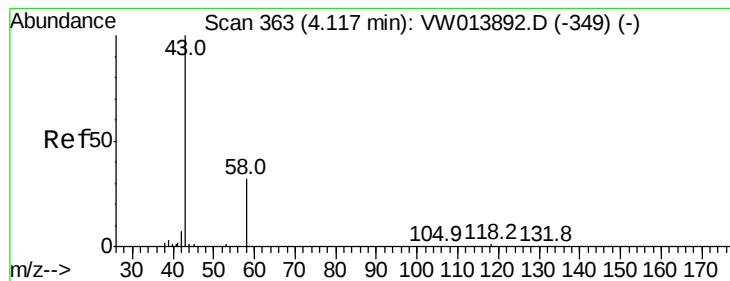


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 89.090 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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Instrument :

MSVOA\_W

ClientSampleId :

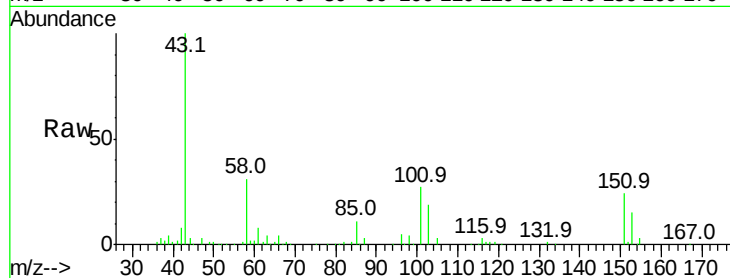
VSTD05002

Tgt Ion: 43 Resp: 134458

Ion Ratio Lower Upper

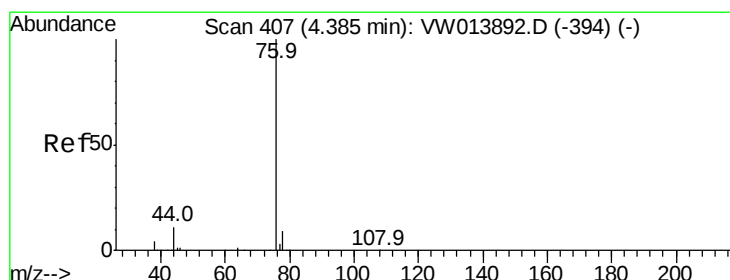
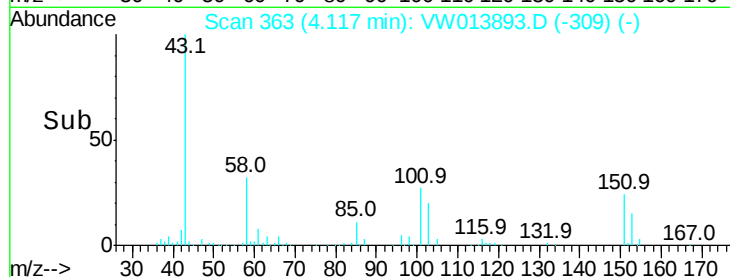
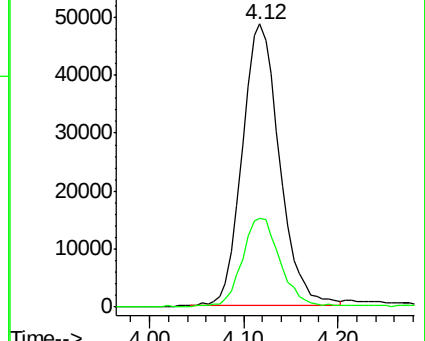
43 100

58 32.5 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 53.328 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW013893.D

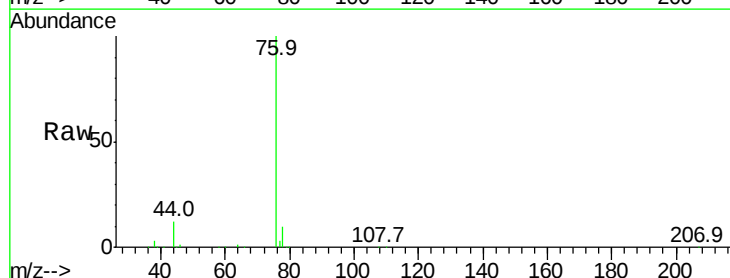
Acq: 01 Nov 2019 11:55

Tgt Ion: 76 Resp: 773449

Ion Ratio Lower Upper

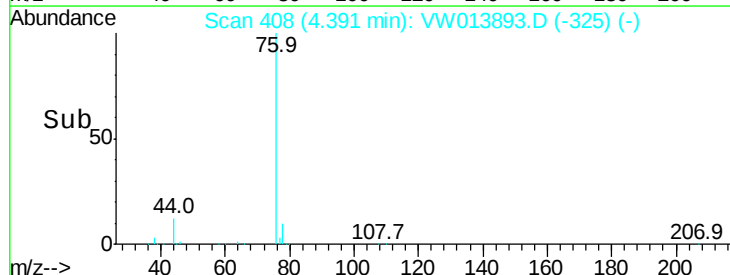
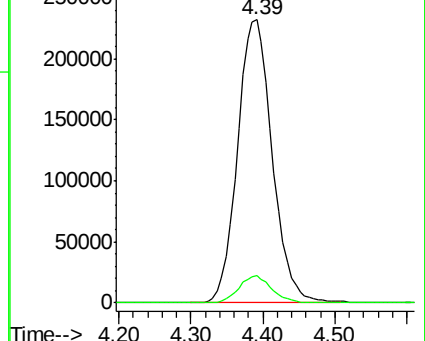
76 100

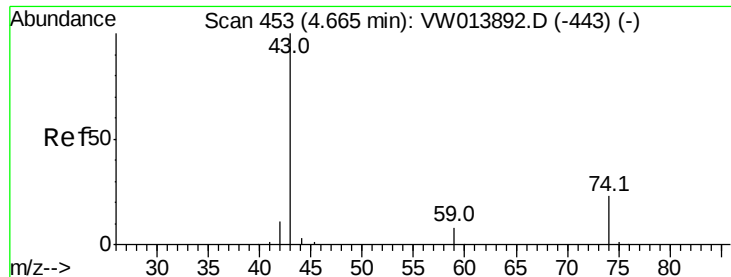
78 9.6 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

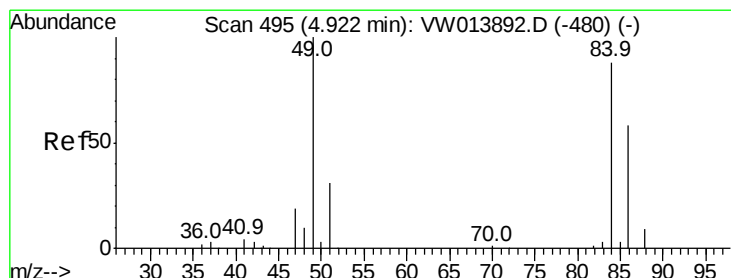
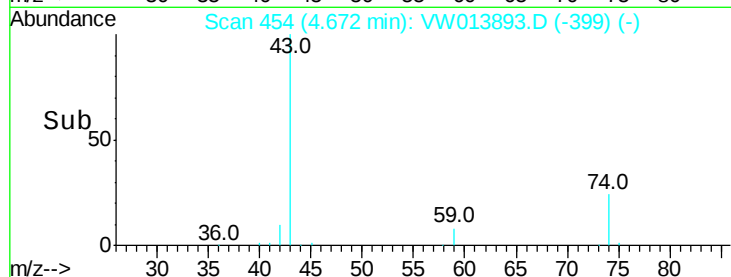
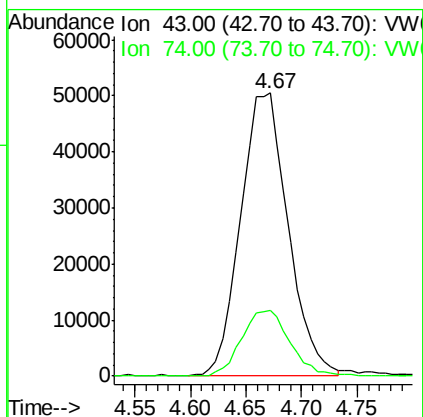
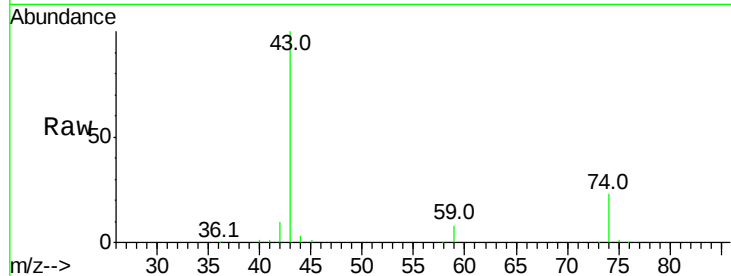




#15  
Methyl Acetate  
Concen: 53.763 ug/L  
RT: 4.67 min Scan# 454  
Delta R.T. 0.01 min  
Lab File: VW013893.D  
Acq: 01 Nov 2019 11:55

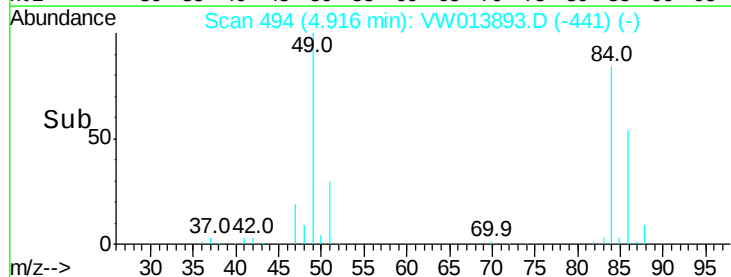
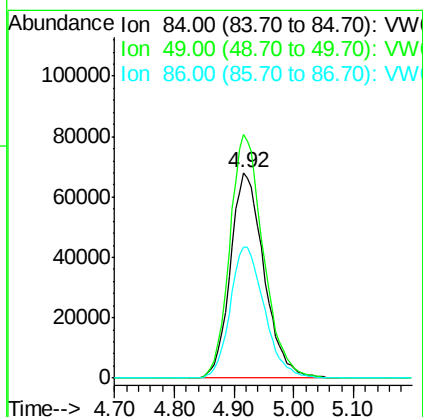
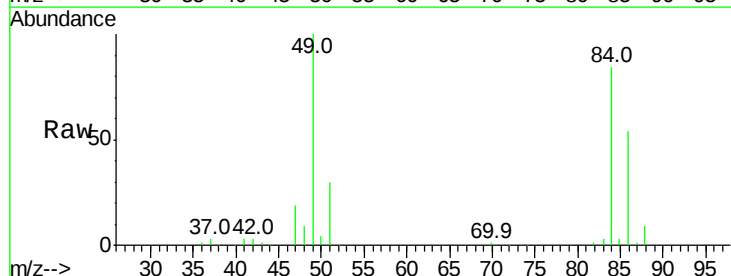
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05002

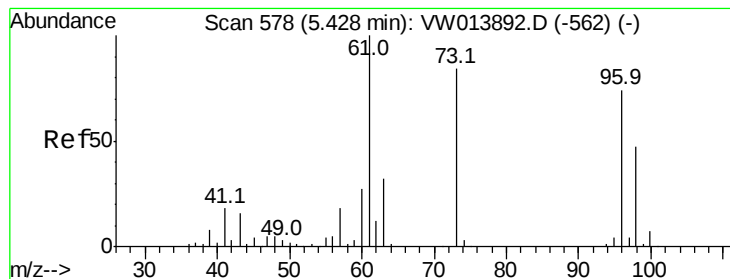
Tgt Ion: 43 Resp: 149402  
Ion Ratio Lower Upper  
43 100  
74 23.9 19.1 28.7



#16  
Methylene chloride  
Concen: 45.215 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW013893.D  
Acq: 01 Nov 2019 11:55

Tgt Ion: 84 Resp: 266421  
Ion Ratio Lower Upper  
84 100  
49 118.6 79.7 148.1  
86 64.1 46.4 86.2





#17

Methyl tert-butyl Ether

Concen: 55.690 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.01 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTD05002

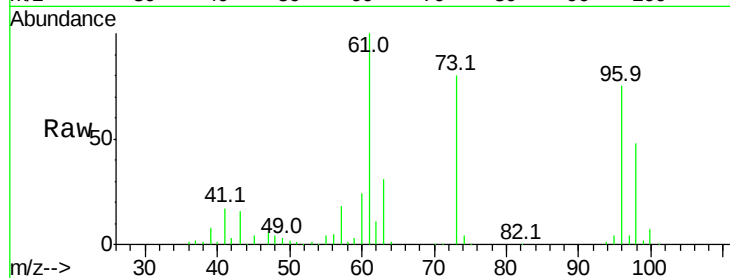
Tgt Ion: 73 Resp: 346044

Ion Ratio Lower Upper

73 100

43 19.0 14.4 21.6

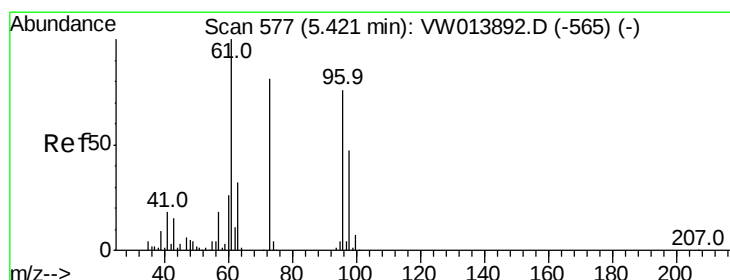
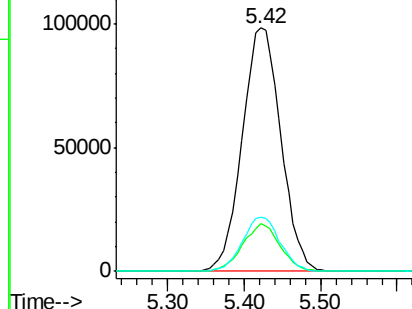
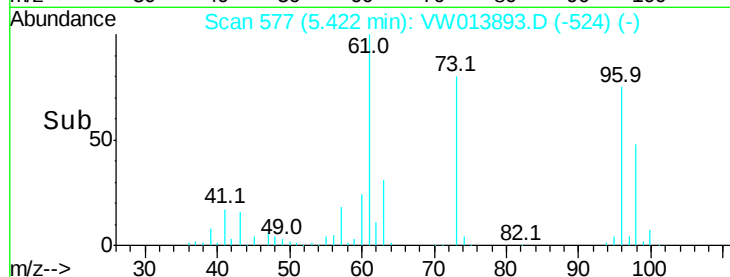
57 21.9 17.8 26.6



Abundance Ion 73.00 (72.70 to 73.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 57.00 (56.70 to 57.70): VW



#18

trans-1,2-Dichloroethene

Concen: 52.669 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

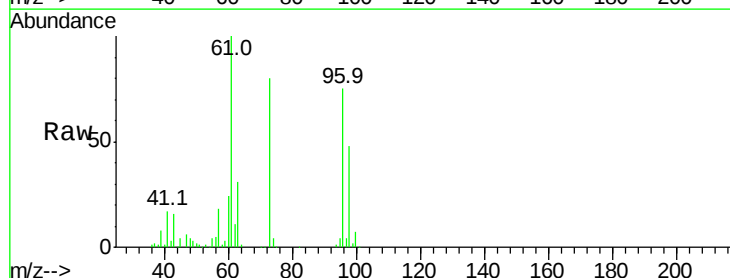
Tgt Ion: 96 Resp: 275300

Ion Ratio Lower Upper

96 100

61 133.9 92.6 172.0

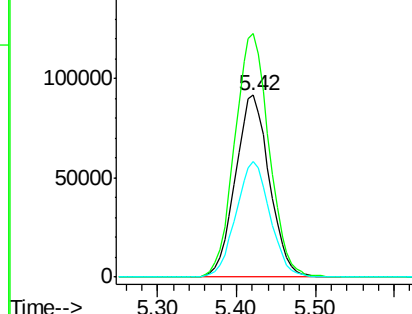
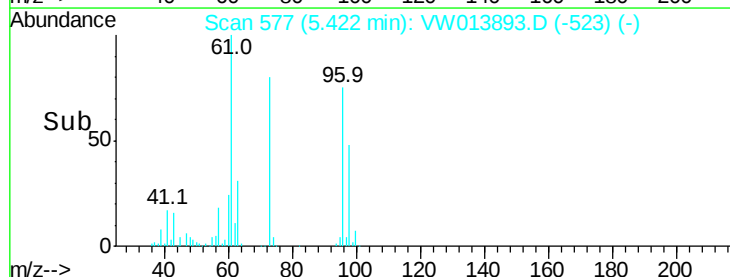
98 63.7 43.8 81.3

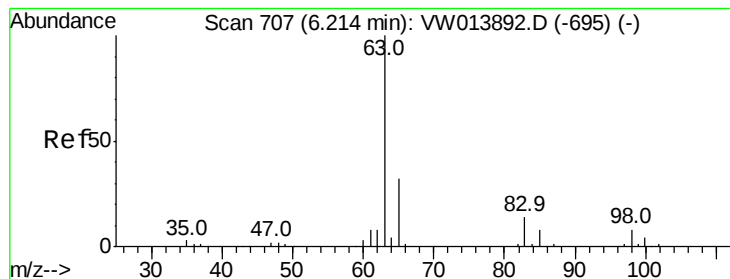


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW





#19

1,1-Dichloroethane

Concen: 52.256 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTD05002

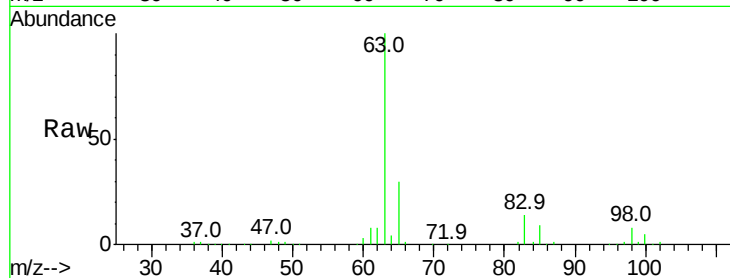
Tgt Ion: 63 Resp: 467221

Ion Ratio Lower Upper

63 100

65 29.8 22.3 41.5

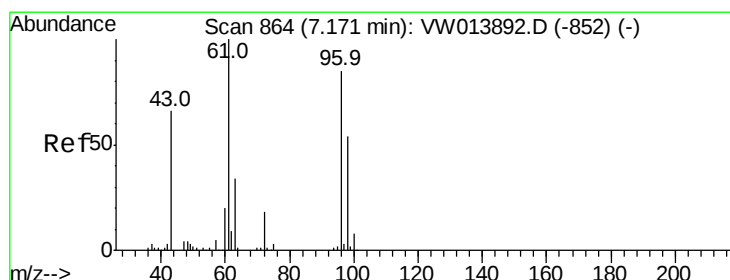
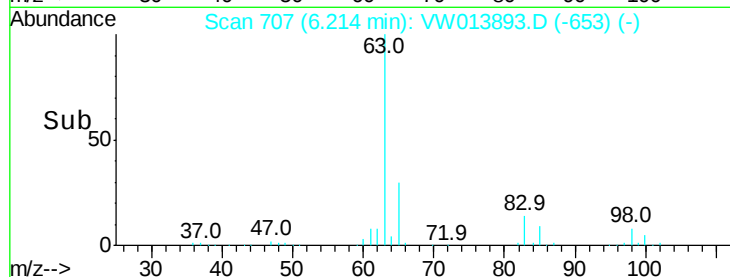
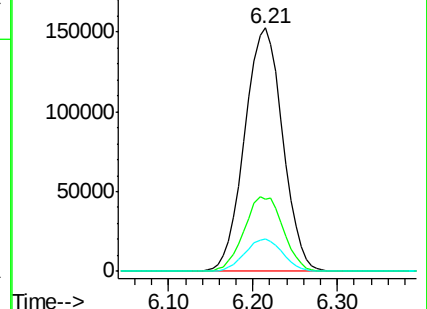
83 13.5 10.1 18.7



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 100.495 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW013893.D

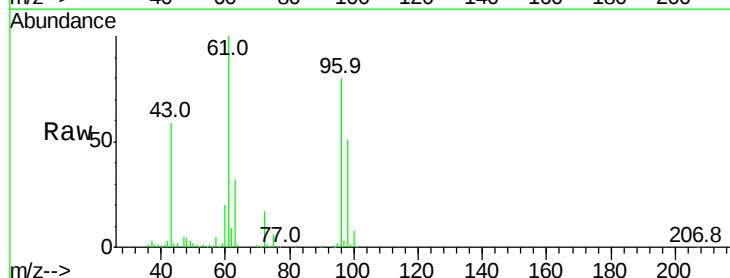
Acq: 01 Nov 2019 11:55

Tgt Ion: 43 Resp: 217634

Ion Ratio Lower Upper

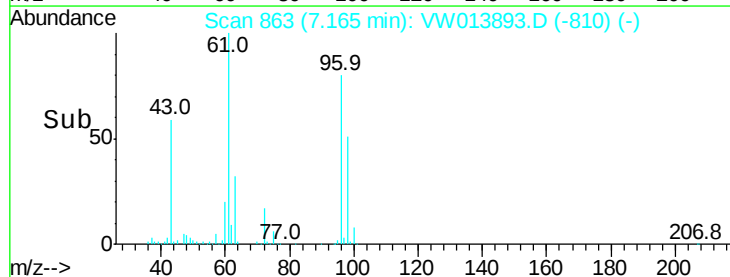
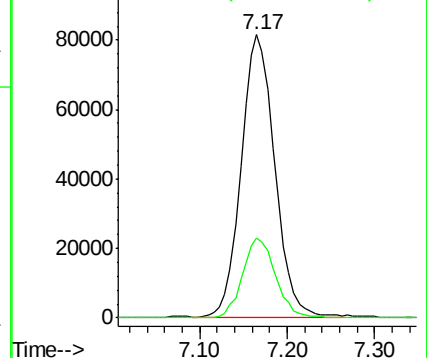
43 100

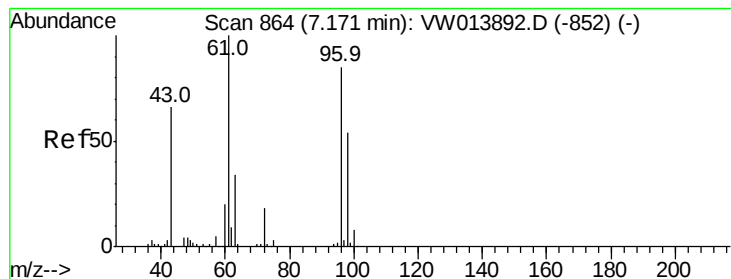
72 27.4 13.6 40.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



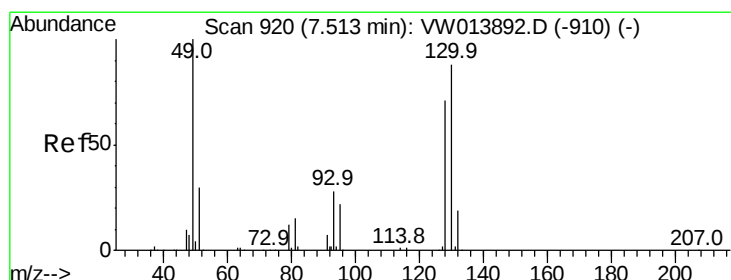
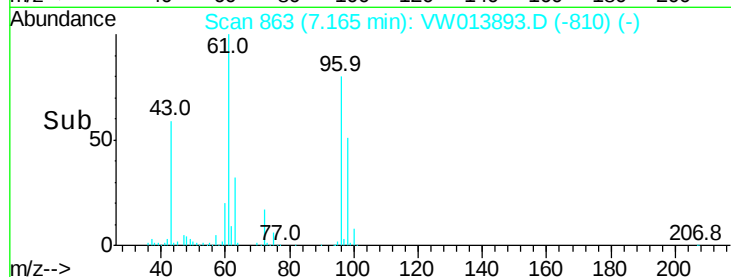
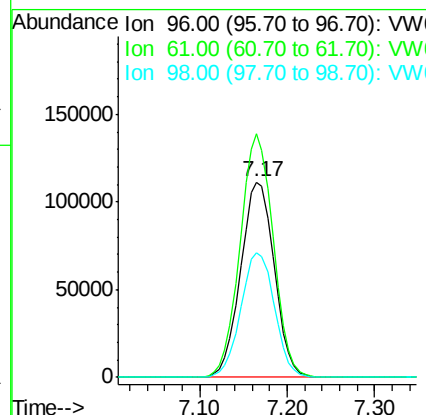
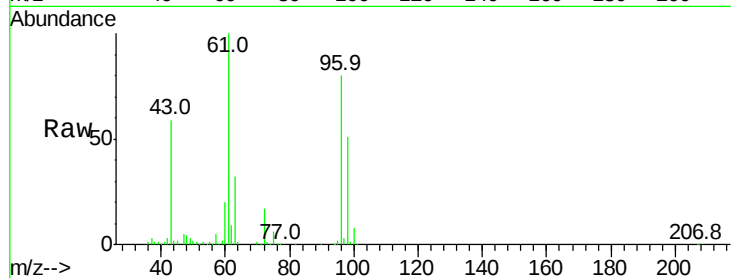


#22

cis-1,2-Dichloroethene  
 Concen: 53.138 ug/L  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW013893.D  
 Acq: 01 Nov 2019 11:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05002

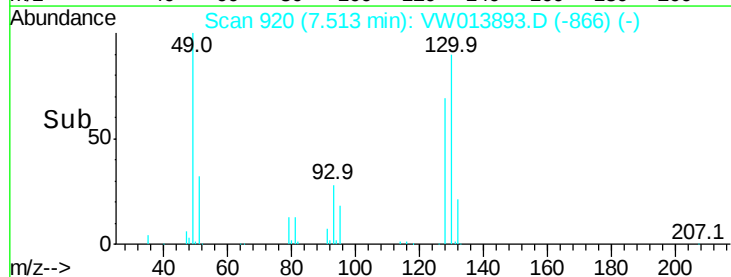
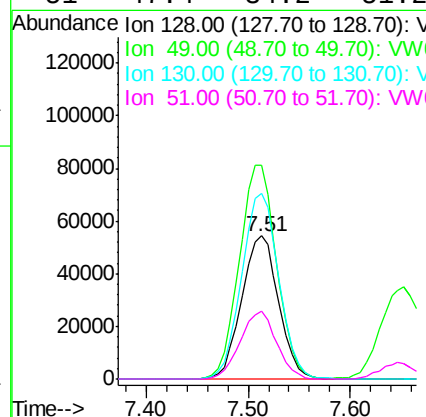
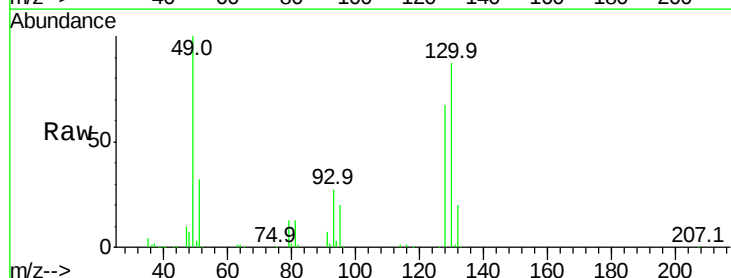
Tgt Ion: 96 Resp: 297309  
 Ion Ratio Lower Upper  
 96 100  
 61 124.8 82.3 152.9  
 98 64.0 44.0 81.8

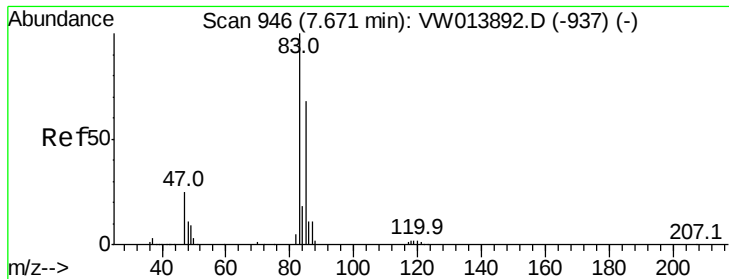


#23

Bromochloromethane  
 Concen: 52.368 ug/L  
 RT: 7.51 min Scan# 920  
 Delta R.T. 0.00 min  
 Lab File: VW013893.D  
 Acq: 01 Nov 2019 11:55

Tgt Ion: 128 Resp: 136783  
 Ion Ratio Lower Upper  
 128 100  
 49 149.0 98.7 183.3  
 130 129.2 86.8 161.2  
 51 47.4 34.2 51.2





#25

Chloroform

Concen: 51.589 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

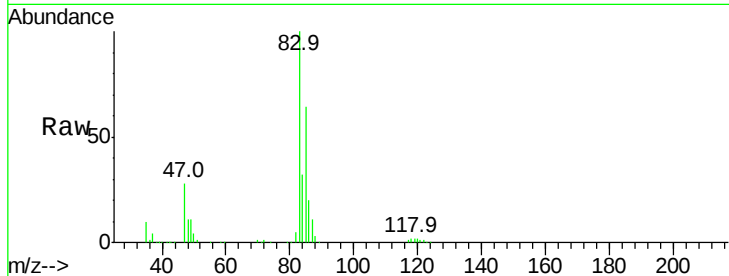
VSTD05002

Tgt Ion: 83 Resp: 463070

Ion Ratio Lower Upper

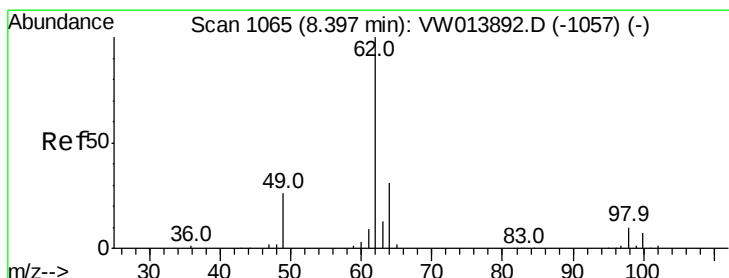
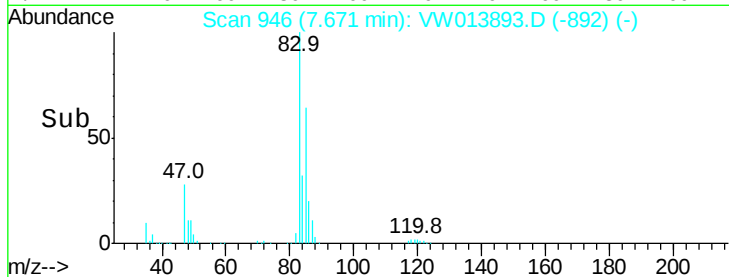
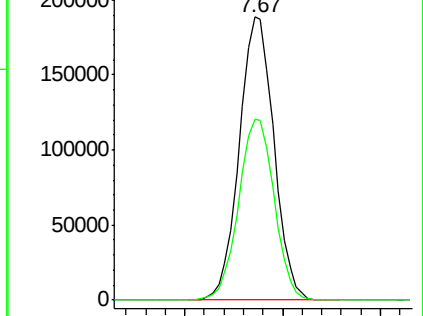
83 100

85 65.6 46.9 87.1



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#27

1,2-Dichloroethane

Concen: 52.554 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW013893.D

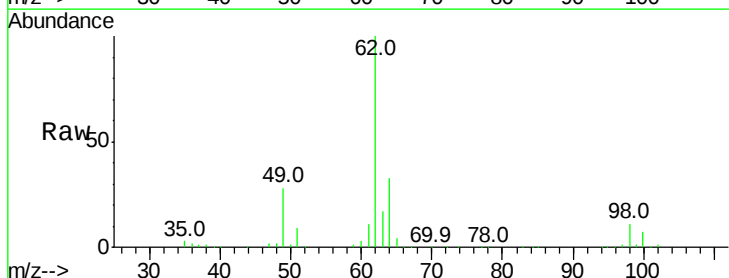
Acq: 01 Nov 2019 11:55

Tgt Ion: 62 Resp: 310262

Ion Ratio Lower Upper

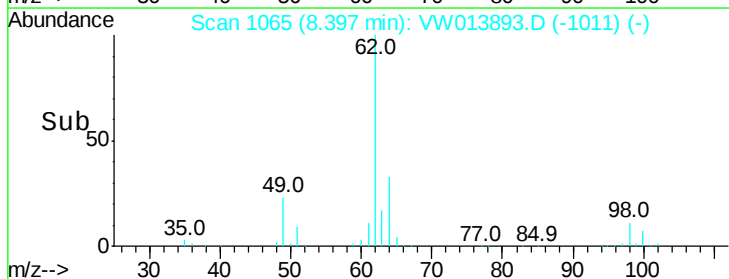
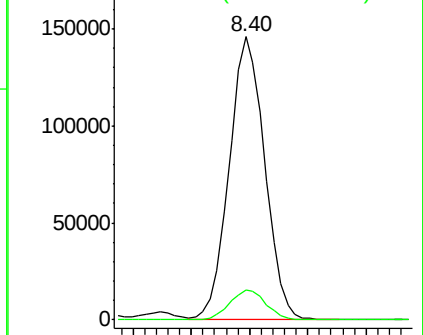
62 100

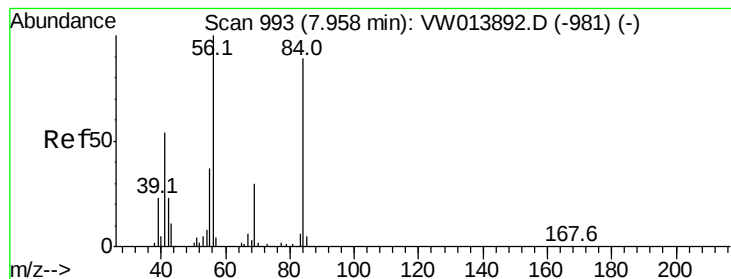
98 10.7 8.2 12.2



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW





#30

Cyclohexane

Concen: 55.719 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTD05002

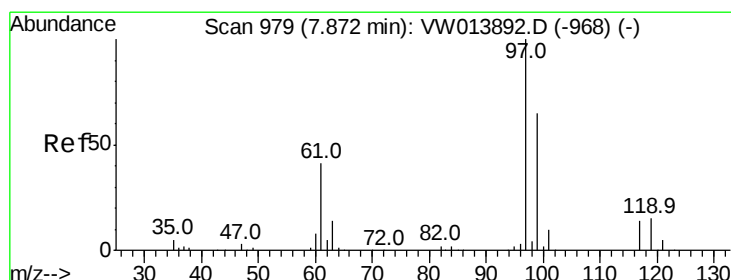
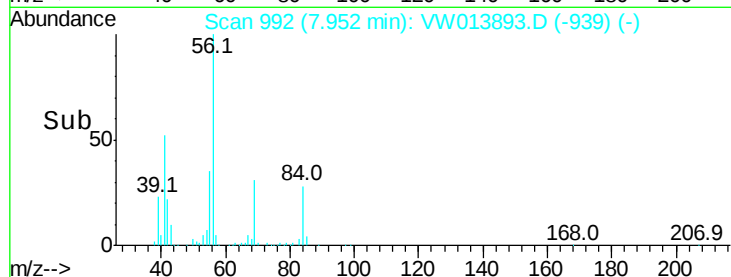
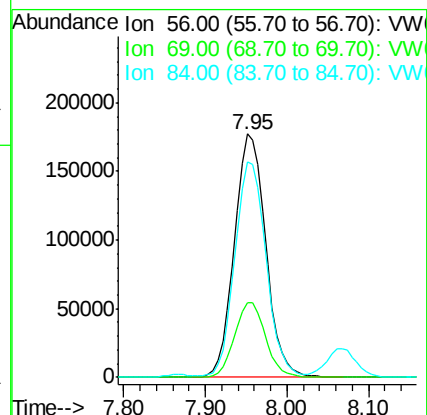
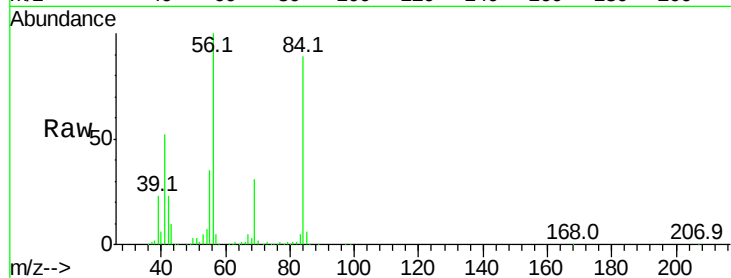
Tgt Ion: 56 Resp: 471244

Ion Ratio Lower Upper

56 100

69 30.5 24.5 36.7

84 88.4 70.6 105.8



#31

1,1,1-Trichloroethane

Concen: 53.263 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

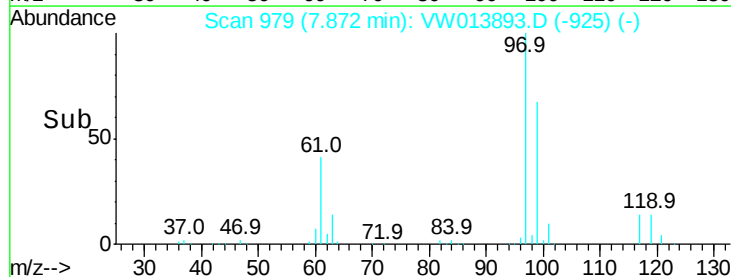
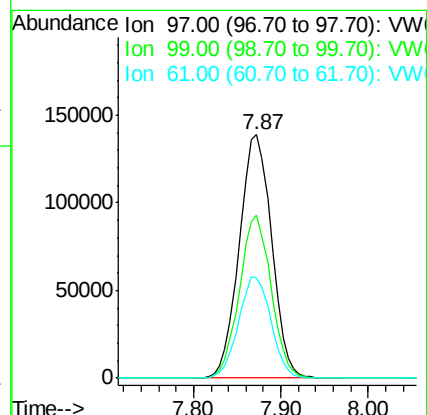
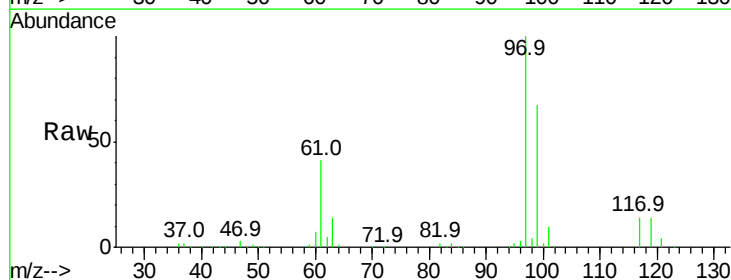
Tgt Ion: 97 Resp: 359688

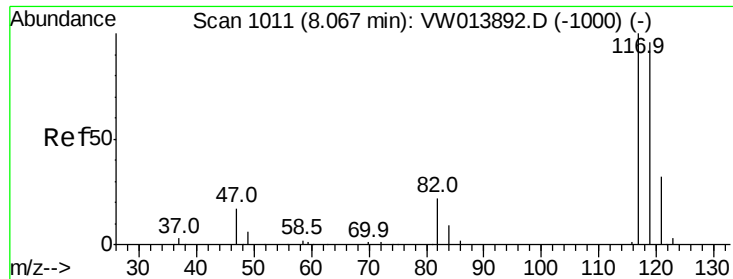
Ion Ratio Lower Upper

97 100

99 65.0 52.0 78.0

61 41.7 33.6 50.4





#32

Carbon tetrachloride

Concen: 53.487 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

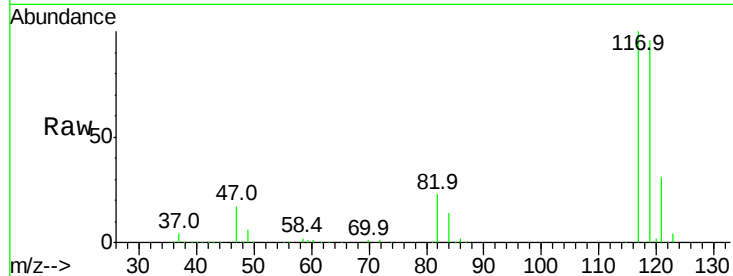
VSTD05002

Tgt Ion:117 Resp: 359541

Ion Ratio Lower Upper

117 100

119 96.8 77.9 116.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

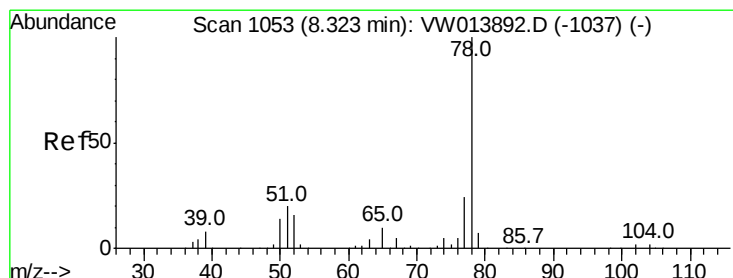
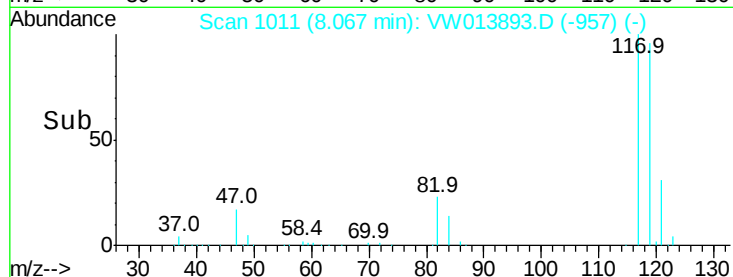
150000

100000

50000

0

Time-->



#34

Benzene

Concen: 53.125 ug/L

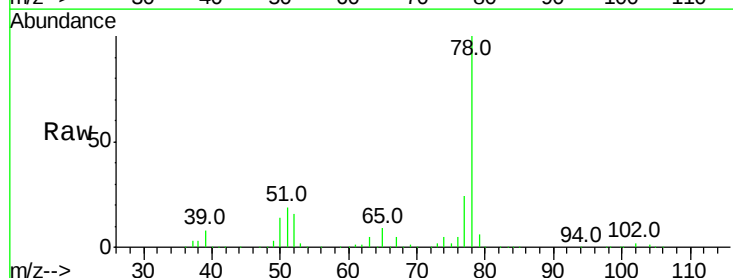
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Tgt Ion: 78 Resp: 1085487



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

500000

400000

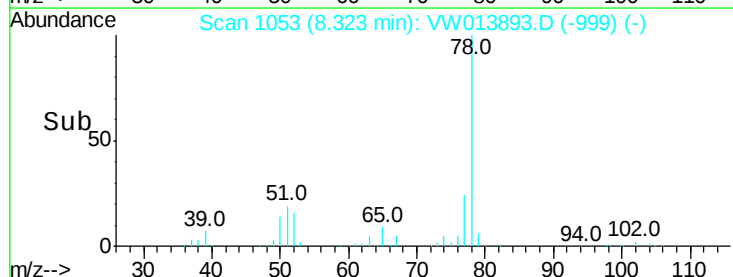
300000

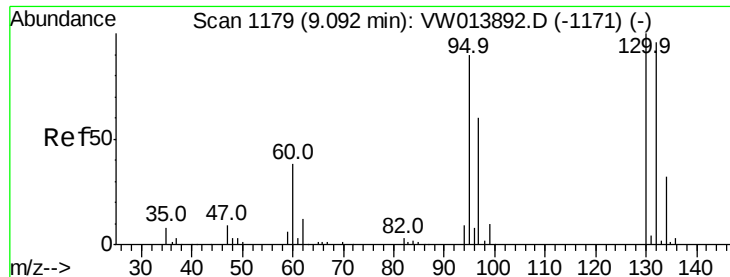
200000

100000

0

Time-->





#35

Trichloroethene

Concen: 52.654 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTD05002

Tgt Ion: 95 Resp: 283943

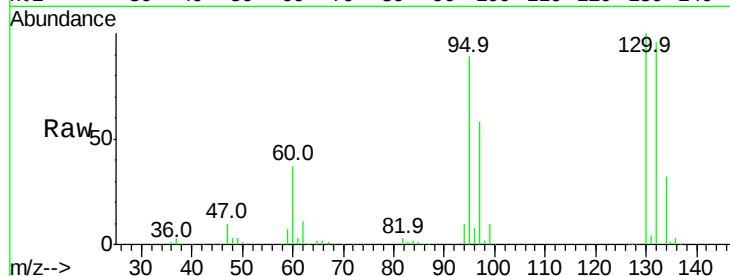
Ion Ratio Lower Upper

95 100

97 65.2 44.9 83.5

132 105.8 73.3 136.1

130 108.8 75.5 140.1

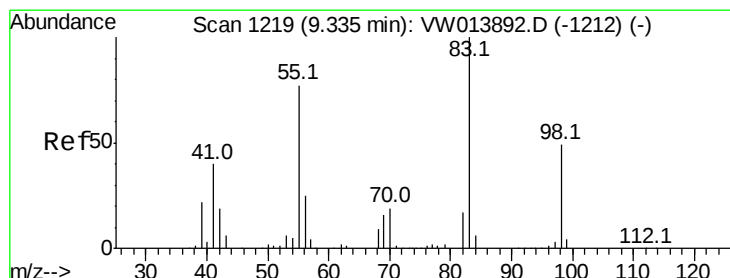
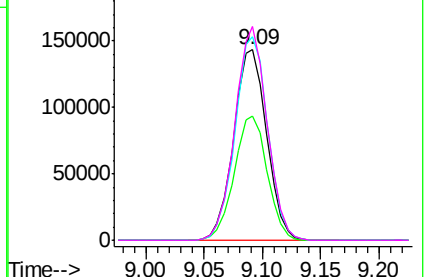
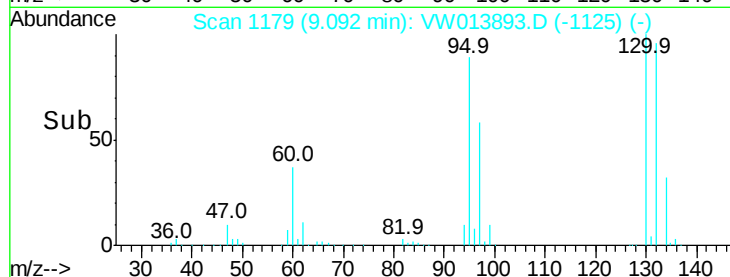


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 54.640 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

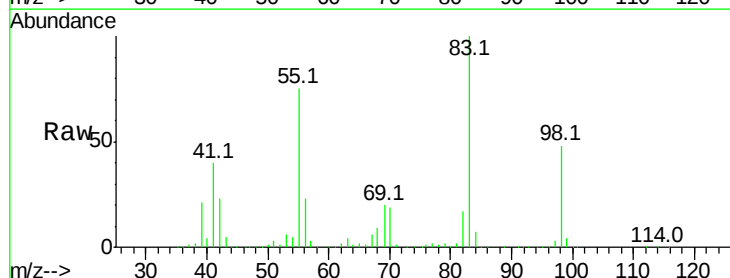
Tgt Ion: 83 Resp: 510075

Ion Ratio Lower Upper

83 100

55 76.1 60.2 90.2

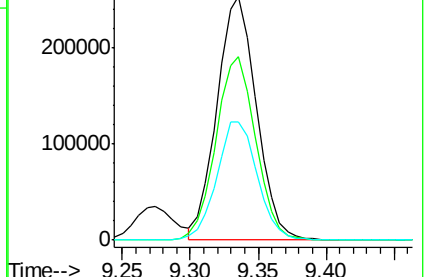
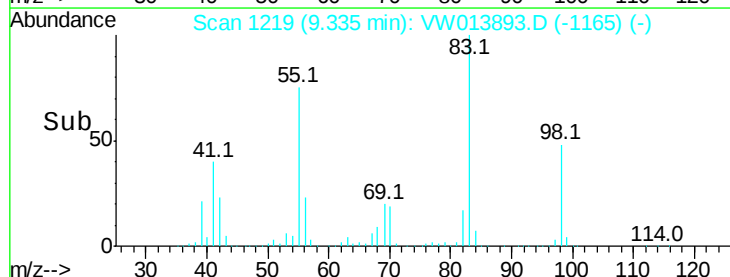
98 50.3 39.2 58.8

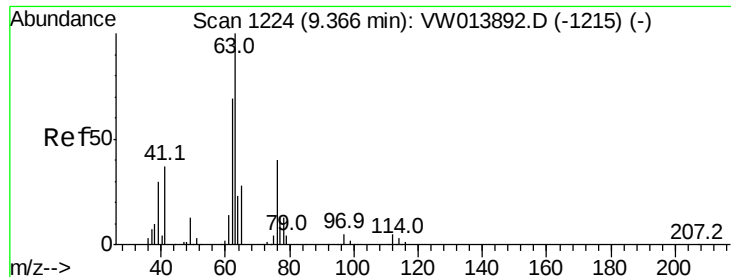


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 53.376 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

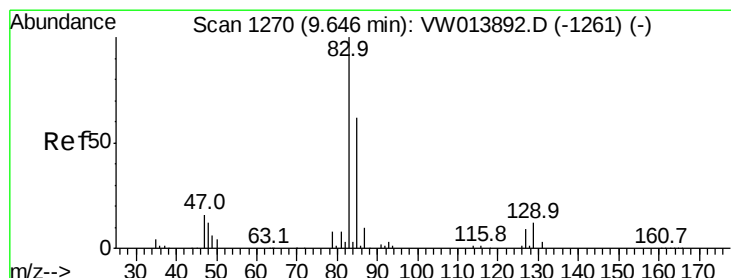
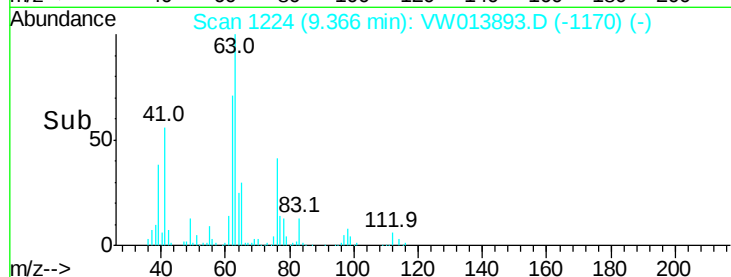
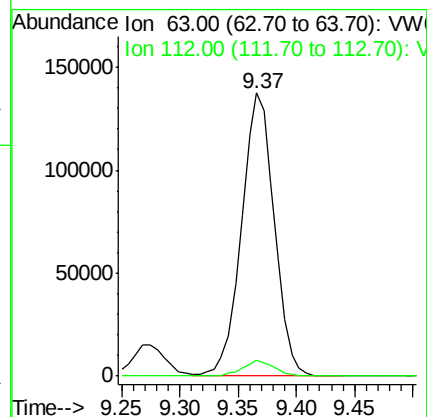
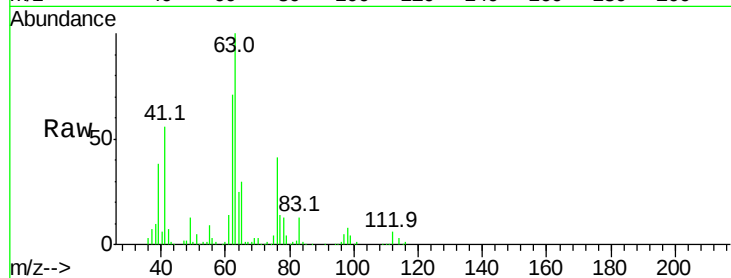
VSTD05002

Tgt Ion: 63 Resp: 269429

Ion Ratio Lower Upper

63 100

112 5.2 3.9 5.9



#41

Bromodichloromethane

Concen: 54.445 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

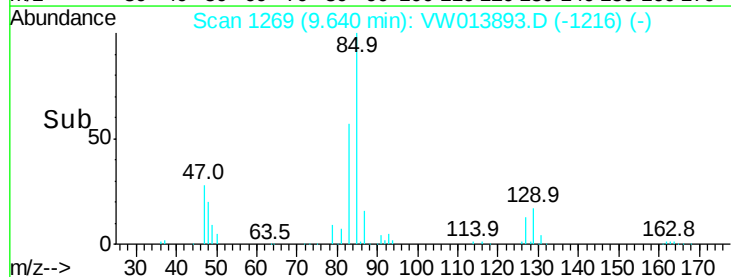
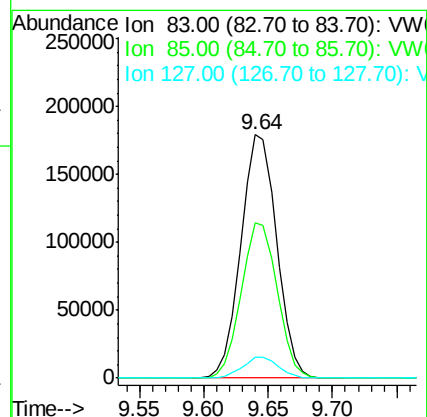
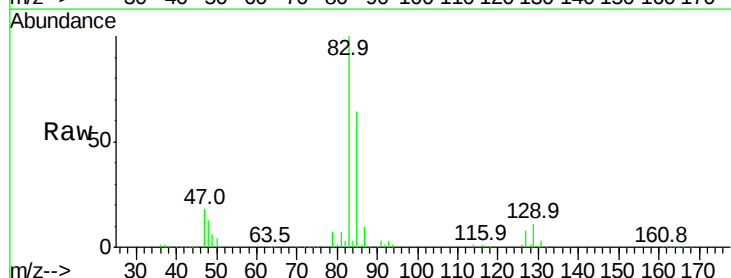
Tgt Ion: 83 Resp: 345146

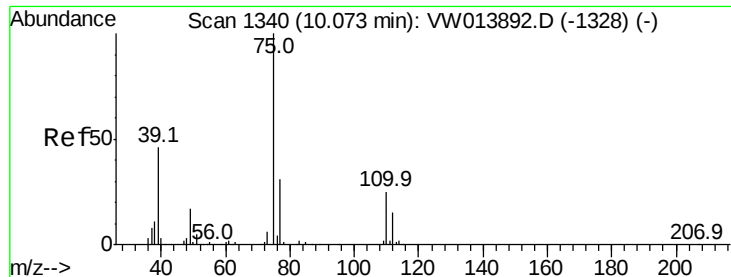
Ion Ratio Lower Upper

83 100

85 64.0 43.5 80.7

127 8.5 7.0 10.4





#42

cis-1,3-Dichloropropene

Concen: 55.843 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampled :

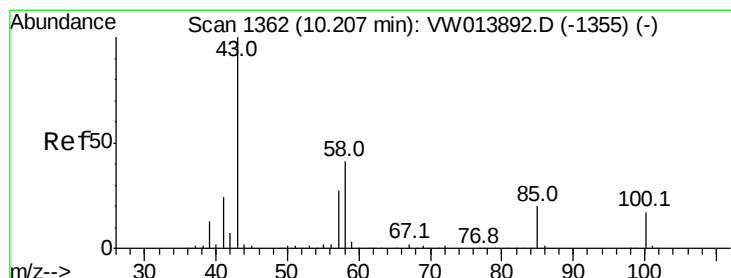
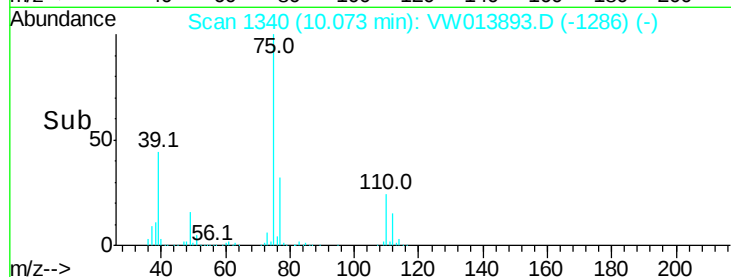
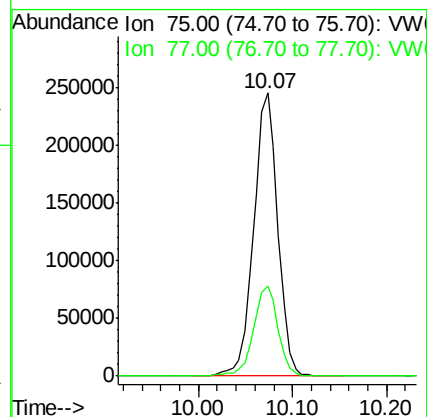
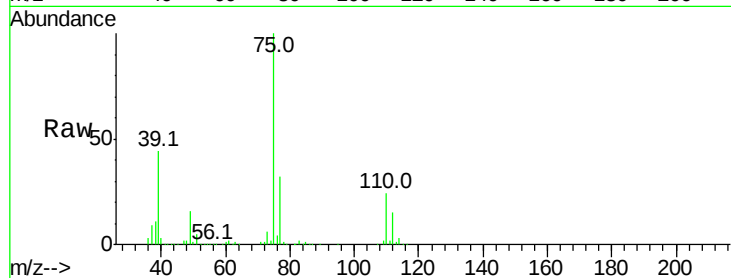
VSTD05002

Tgt Ion: 75 Resp: 442531

Ion Ratio Lower Upper

75 100

77 31.7 21.8 40.4



#43

4-Methyl-2-pentanone

Concen: 110.722 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

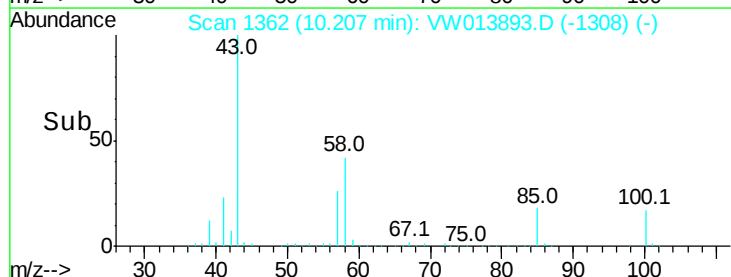
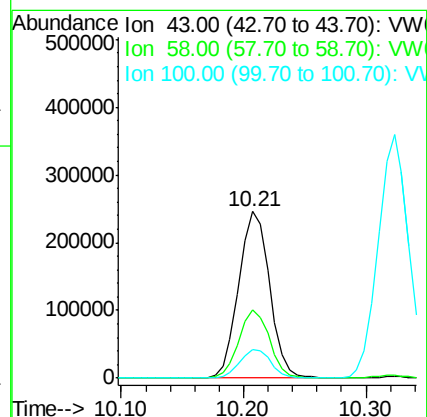
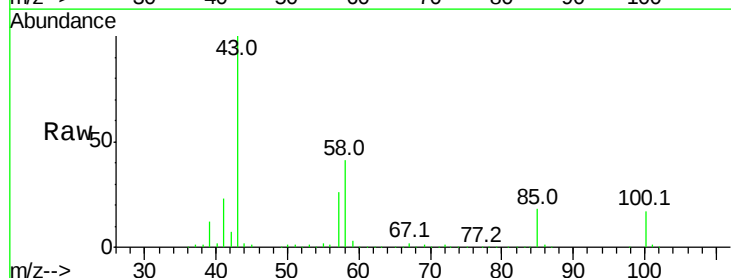
Tgt Ion: 43 Resp: 431247

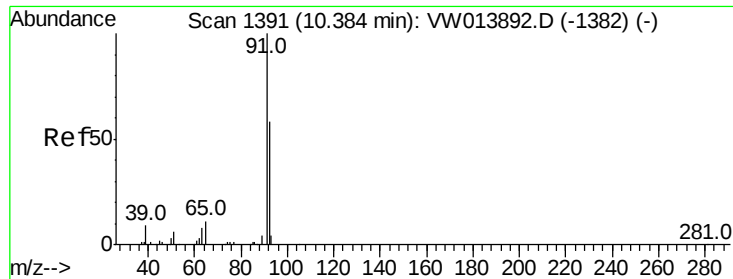
Ion Ratio Lower Upper

43 100

58 40.5 32.6 48.8

100 17.3 14.1 21.1





#44

Toluene

Concen: 53.944 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

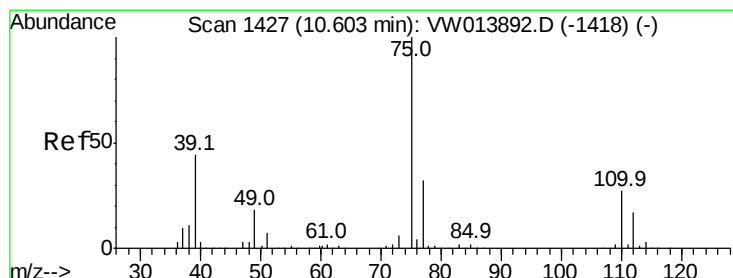
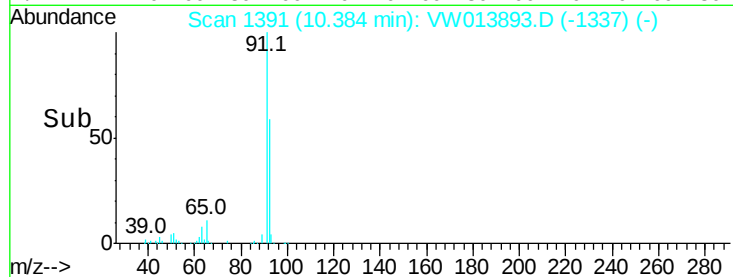
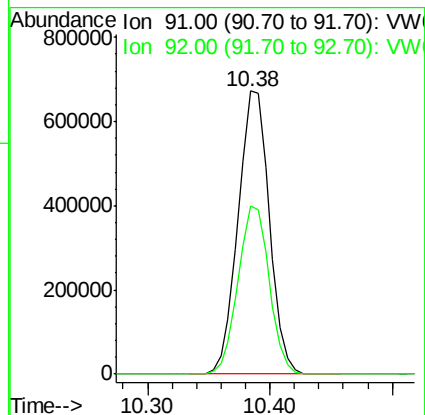
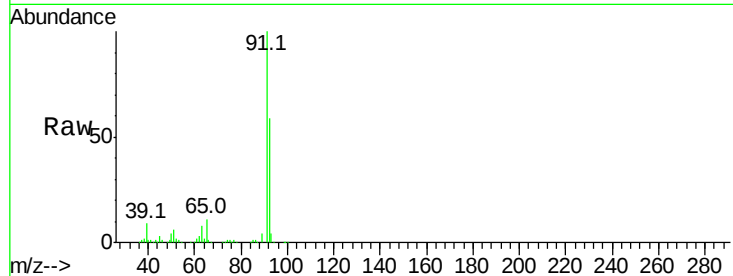
VSTD05002

Tgt Ion: 91 Resp: 1190134

Ion Ratio Lower Upper

91 100

92 59.5 40.3 74.9



#45

trans-1,3-Dichloropropene

Concen: 57.256 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW013893.D

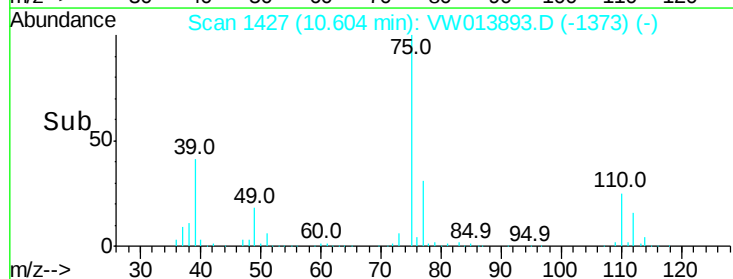
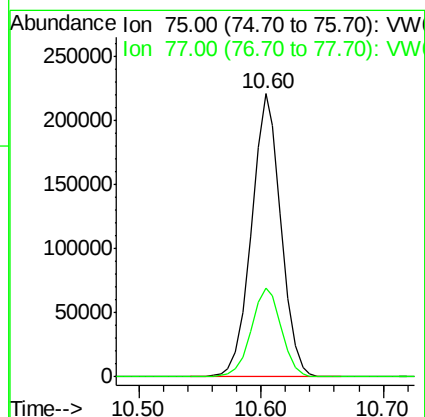
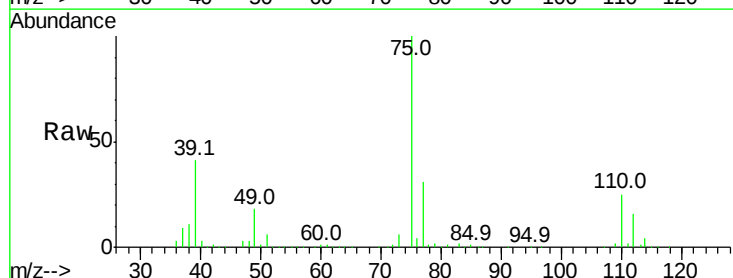
Acq: 01 Nov 2019 11:55

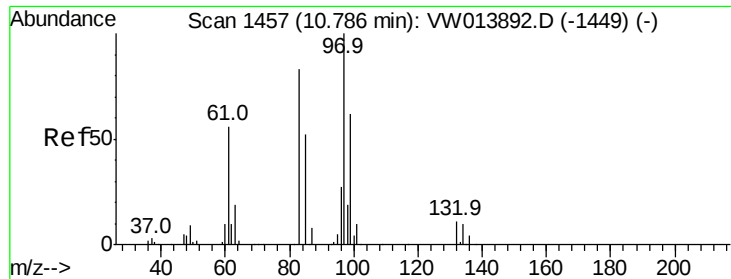
Tgt Ion: 75 Resp: 370052

Ion Ratio Lower Upper

75 100

77 31.2 22.5 41.7

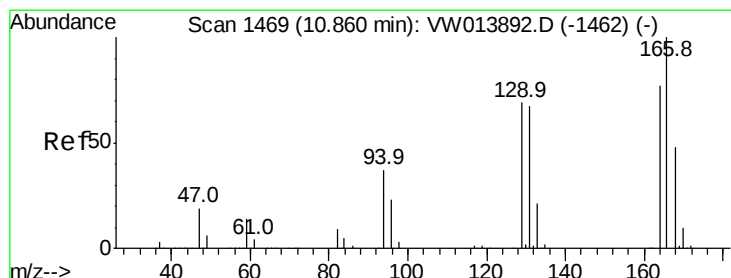
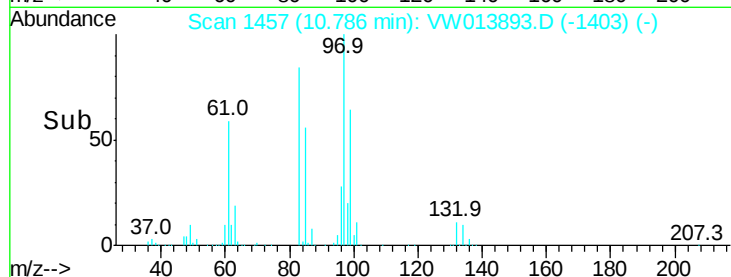
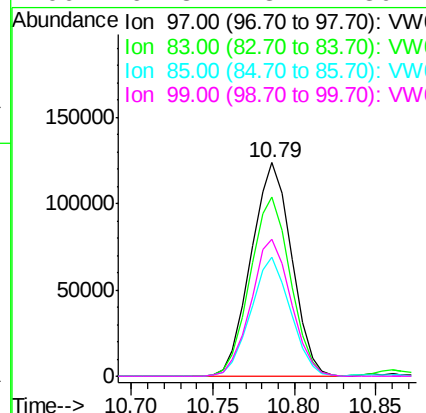
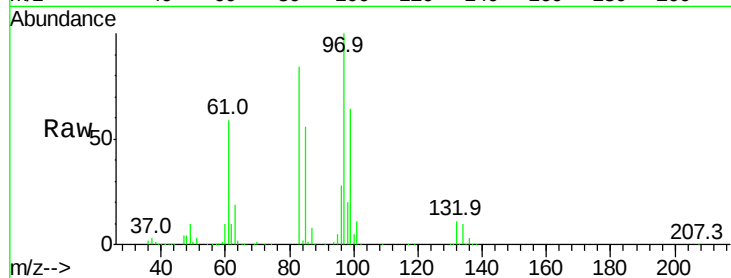




#46  
 1,1,2-Trichloroethane  
 Concen: 52.579 ug/L  
 RT: 10.79 min Scan# 1457  
 Delta R.T. 0.00 min  
 Lab File: VW013893.D  
 Acq: 01 Nov 2019 11:55

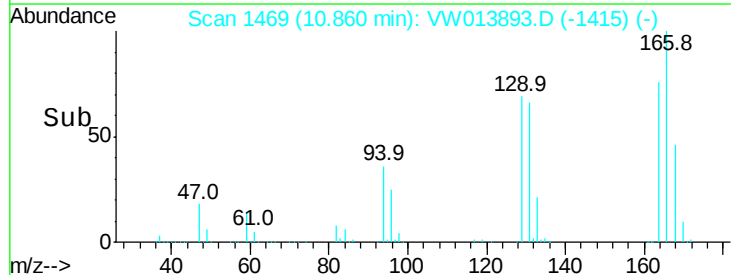
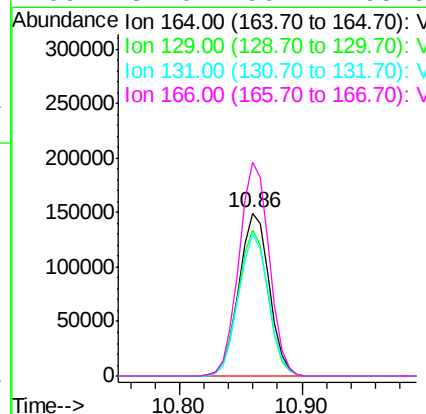
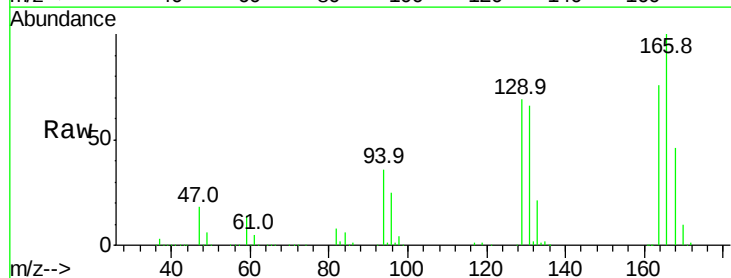
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05002

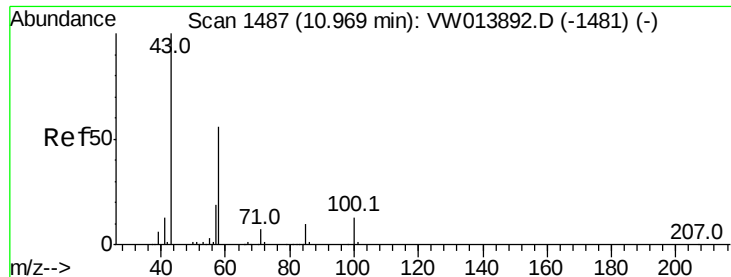
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 213990 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 84.0  | 58.4  | 108.4  |
| 85       | 56.0  | 36.2  | 67.2   |
| 99       | 64.3  | 43.1  | 80.1   |



#47  
 Tetrachloroethene  
 Concen: 53.014 ug/L  
 RT: 10.86 min Scan# 1469  
 Delta R.T. 0.00 min  
 Lab File: VW013893.D  
 Acq: 01 Nov 2019 11:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 256746 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 89.9  | 63.0  | 117.0  |
| 131      | 87.0  | 60.6  | 112.6  |
| 166      | 131.0 | 90.7  | 168.5  |



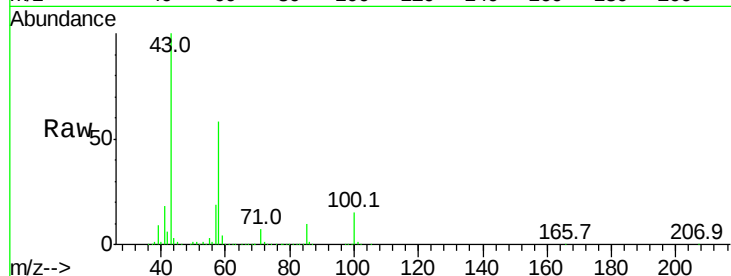


#49  
2-Hexanone  
Concen: 113.809 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW013893.D  
Acq: 01 Nov 2019 11:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05002

Tgt Ion: 43 Resp: 317202

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 57.2  | 45.2  | 67.8  |
| 57  | 19.6  | 15.4  | 23.0  |
| 100 | 13.9  | 10.9  | 16.3  |



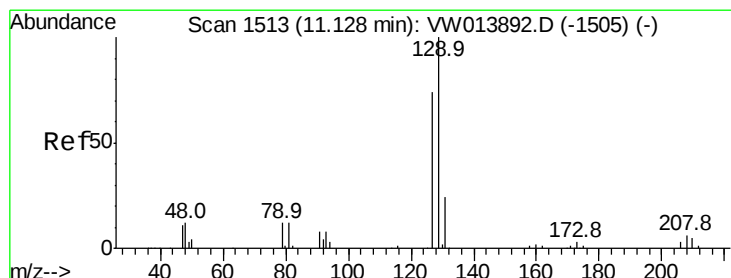
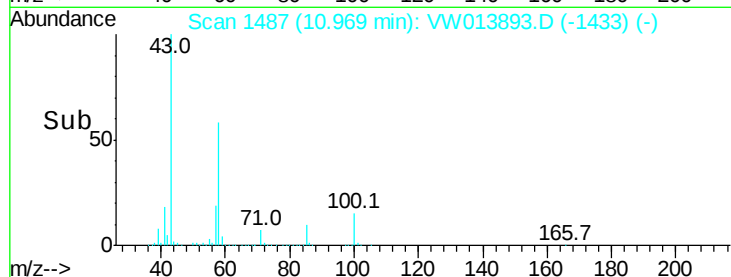
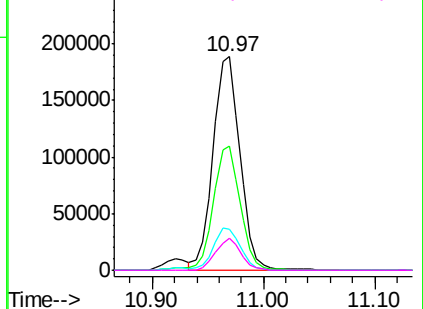
Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

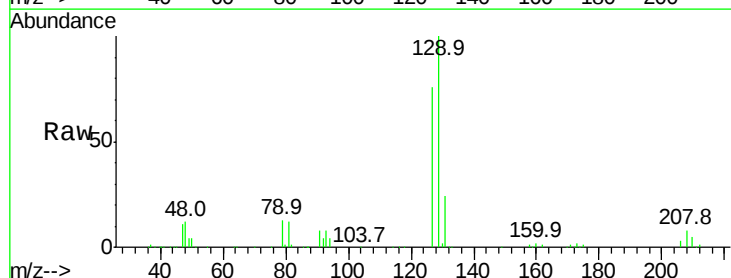
Ion 100.00 (99.70 to 100.70): VW



#50  
Dibromochloromethane  
Concen: 55.365 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW013893.D  
Acq: 01 Nov 2019 11:55

Tgt Ion: 129 Resp: 261958

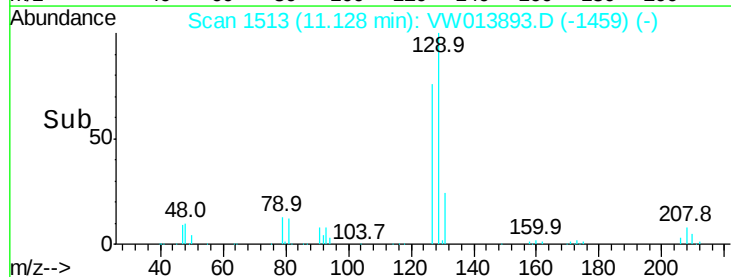
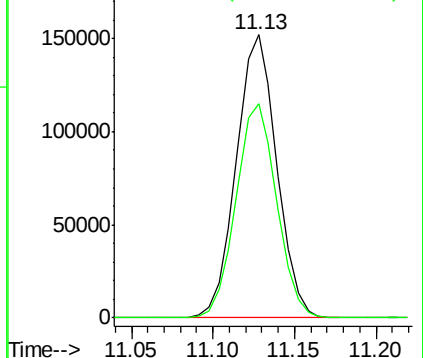
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 75.7  | 52.1  | 96.7  |

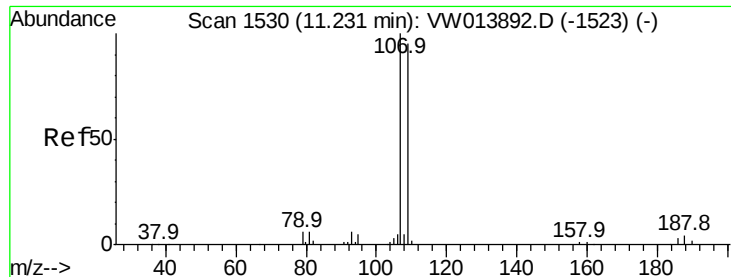


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

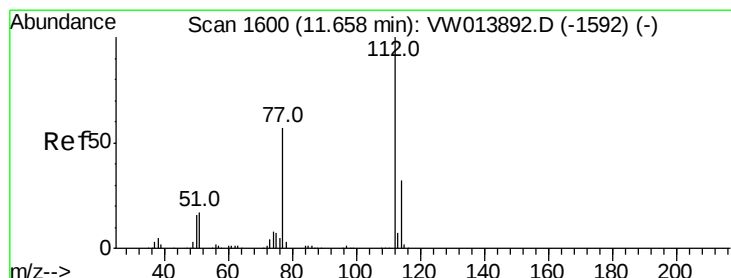
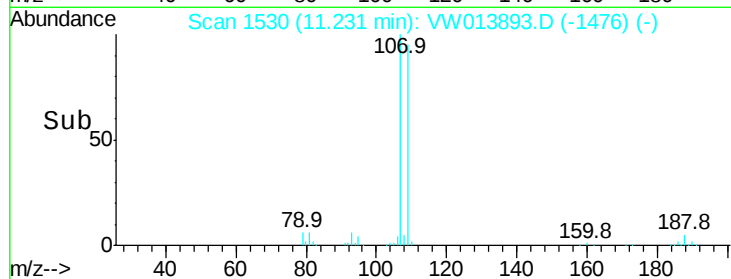
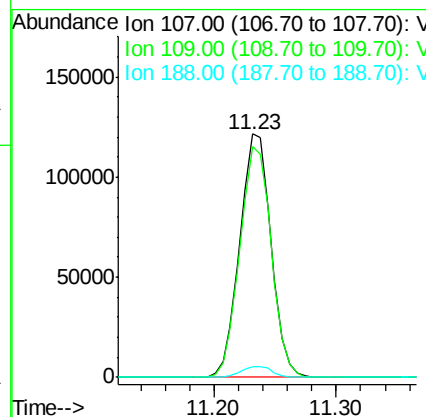
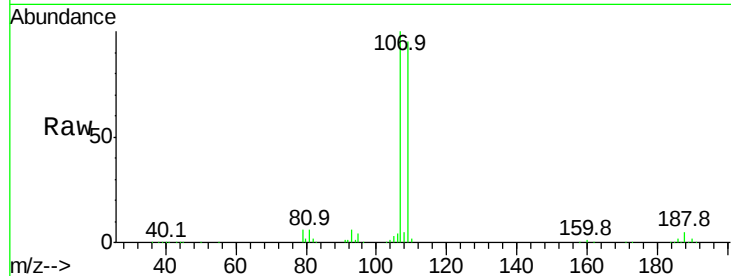




#51  
1,2-Dibromoethane  
Concen: 54.036 ug/L  
RT: 11.23 min Scan# 1530  
Delta R.T. 0.00 min  
Lab File: VW013893.D  
Acq: 01 Nov 2019 11:55

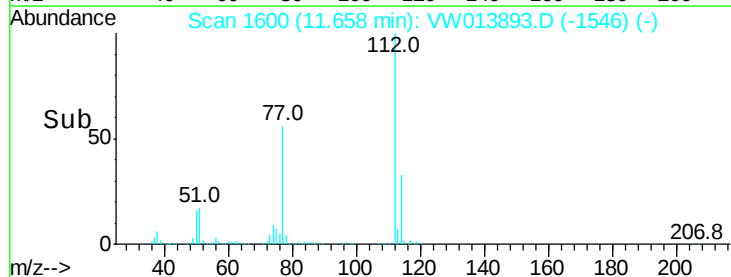
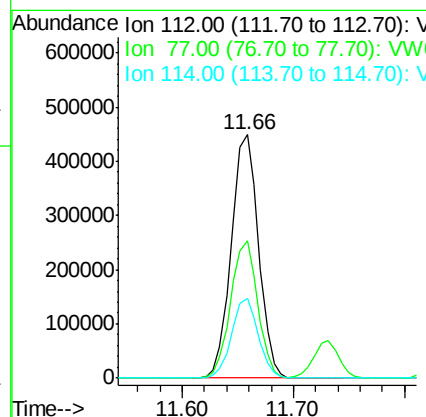
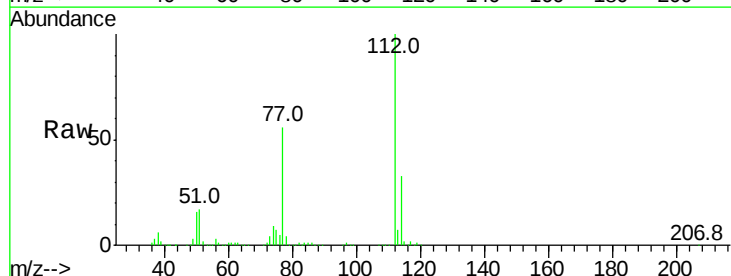
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD05002

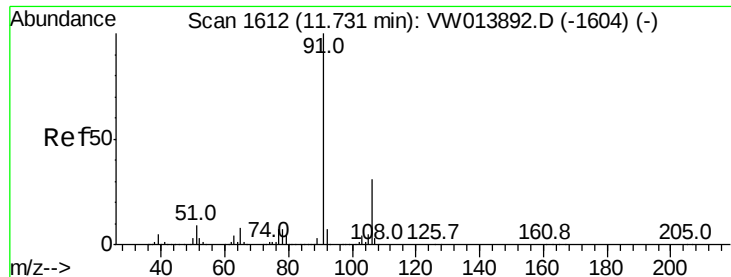
Tgt Ion:107 Resp: 215251  
Ion Ratio Lower Upper  
107 100  
109 94.8 66.3 123.1  
188 4.5 3.5 5.3



#52  
Chlorobenzene  
Concen: 53.096 ug/L  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW013893.D  
Acq: 01 Nov 2019 11:55

Tgt Ion:112 Resp: 759654  
Ion Ratio Lower Upper  
112 100  
77 56.4 45.4 68.0  
114 32.7 22.6 42.0





#53

Ethylbenzene

Concen: 54.095 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

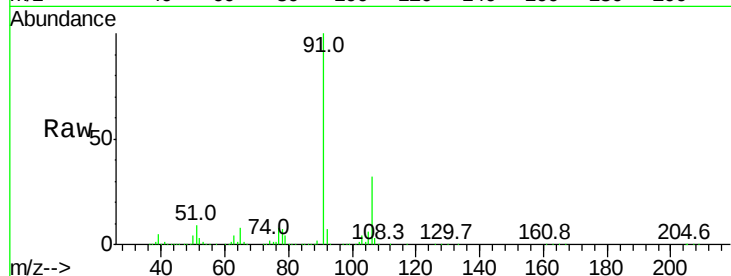
VSTD05002

Tgt Ion: 91 Resp: 1317413

Ion Ratio Lower Upper

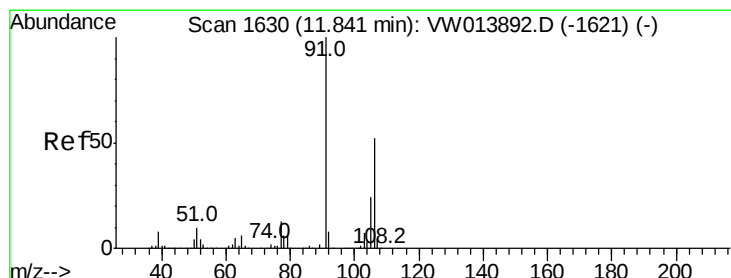
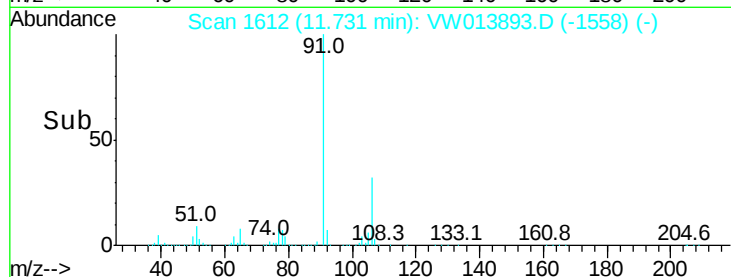
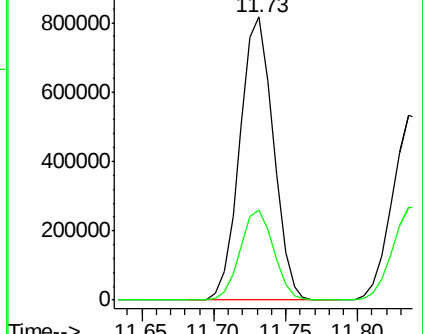
91 100

106 31.9 22.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 54.302 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW013893.D

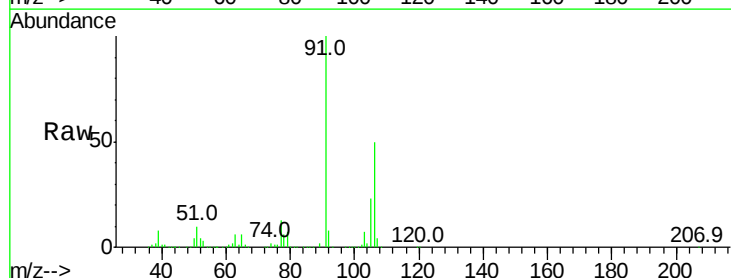
Acq: 01 Nov 2019 11:55

Tgt Ion: 106 Resp: 517377

Ion Ratio Lower Upper

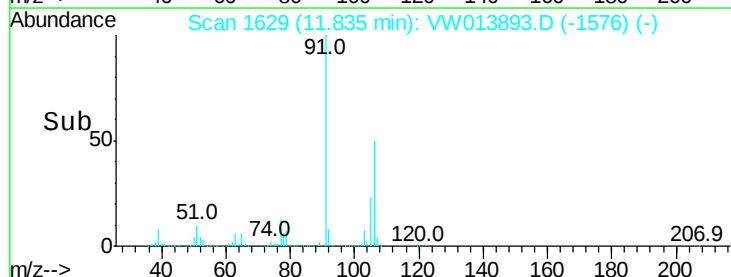
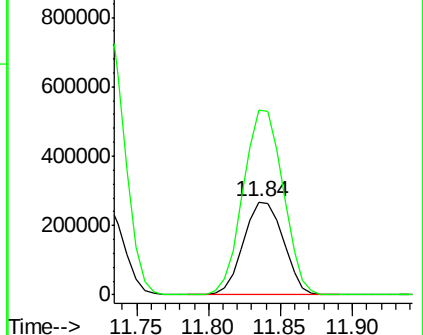
106 100

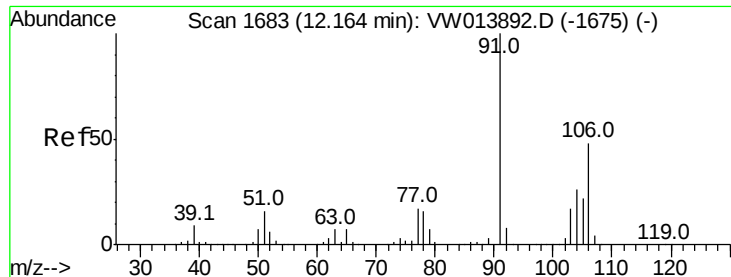
91 198.3 133.7 248.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 54.496 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

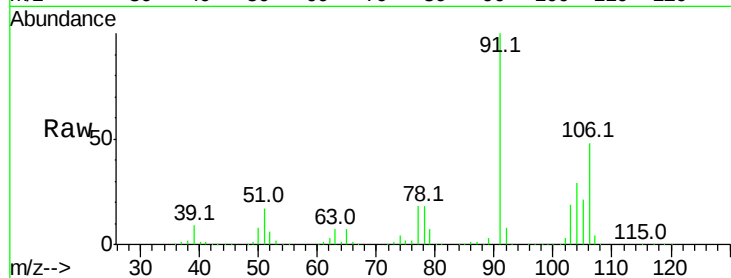
VSTD05002

Tgt Ion:106 Resp: 488710

Ion Ratio Lower Upper

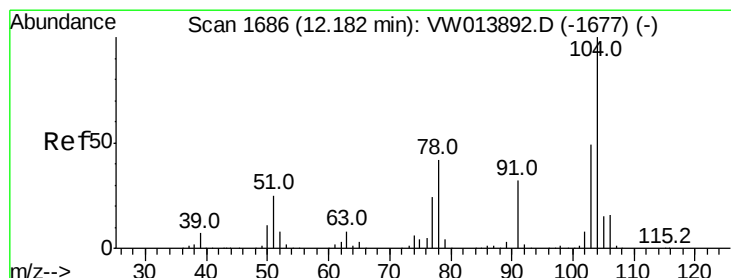
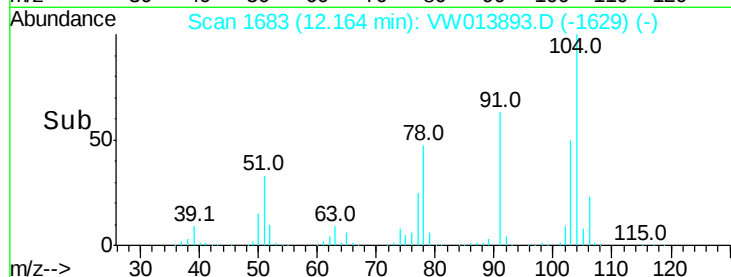
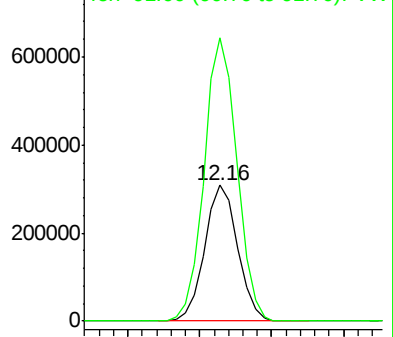
106 100

91 208.6 145.6 270.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 55.791 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VW013893.D

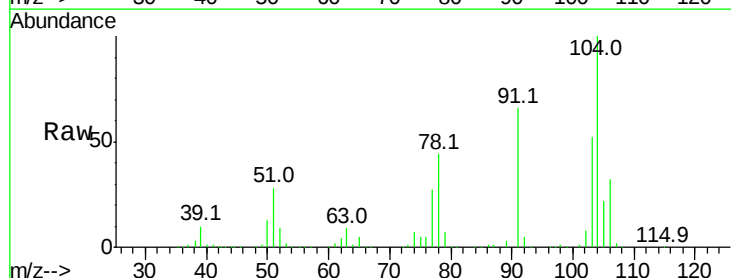
Acq: 01 Nov 2019 11:55

Tgt Ion:104 Resp: 858468

Ion Ratio Lower Upper

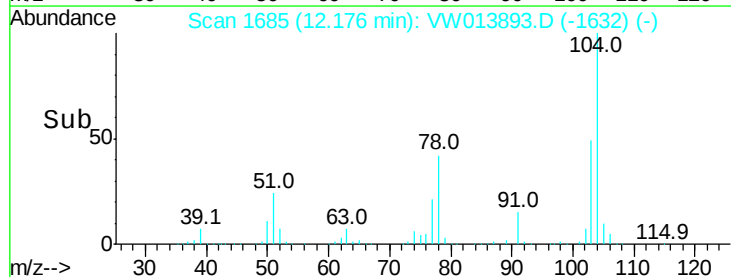
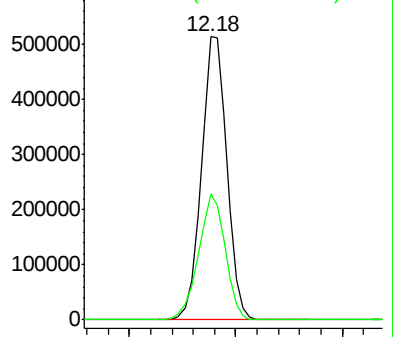
104 100

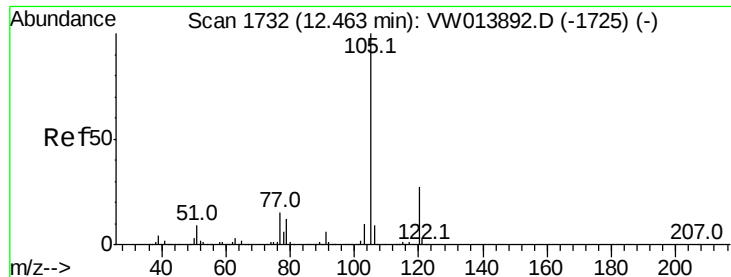
78 44.3 29.2 54.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 55.425 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampled :

VSTD05002

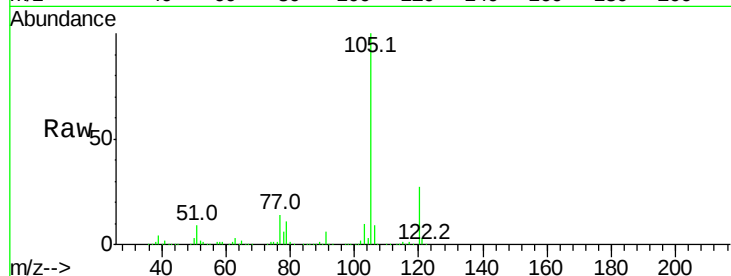
Tgt Ion:105 Resp: 1330217

Ion Ratio Lower Upper

105 100

120 26.7 21.5 32.3

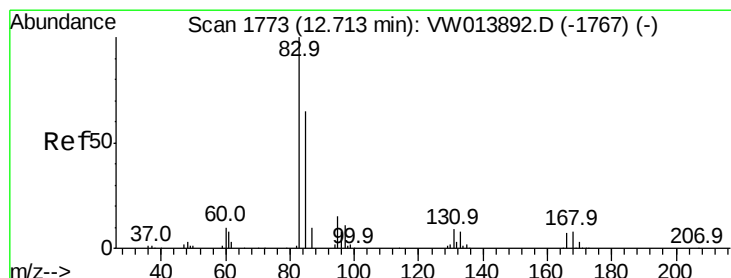
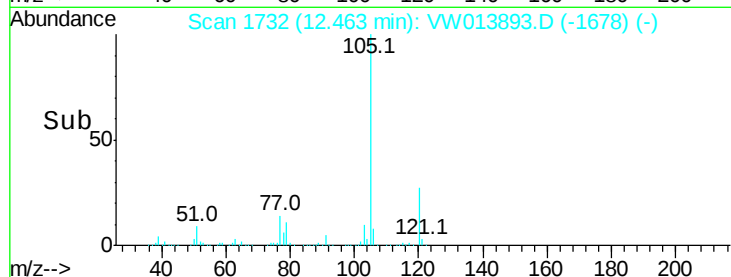
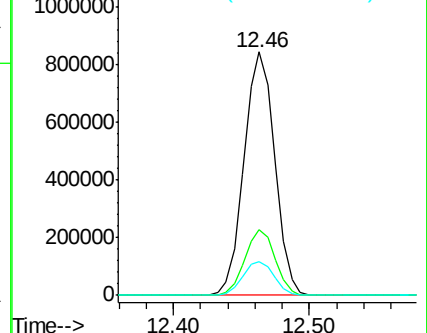
77 14.3 11.7 17.5



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: 54.196 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

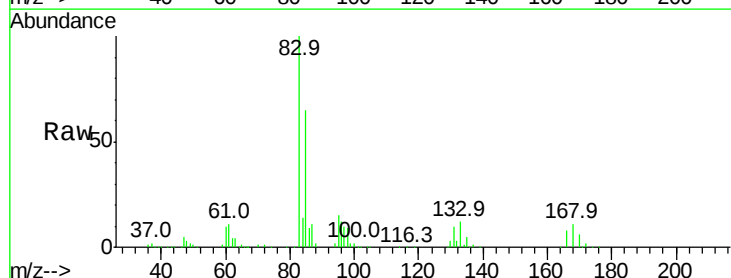
Tgt Ion: 83 Resp: 276909

Ion Ratio Lower Upper

83 100

85 64.7 45.6 84.6

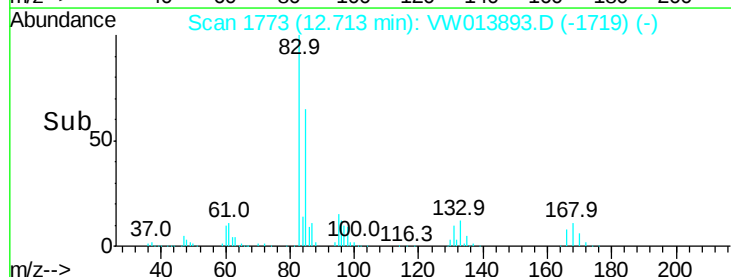
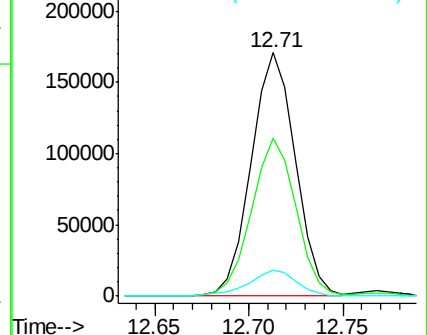
131 10.4 7.8 11.8

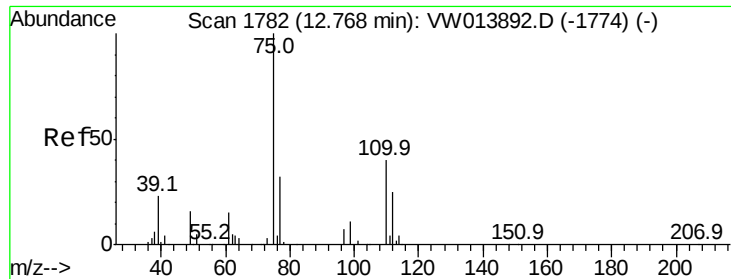


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 52.872 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

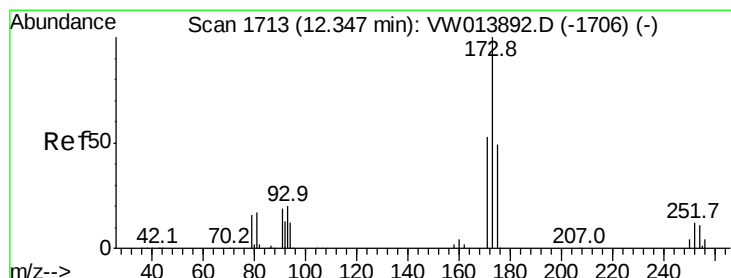
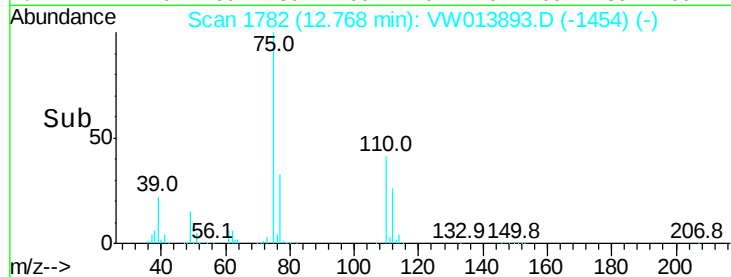
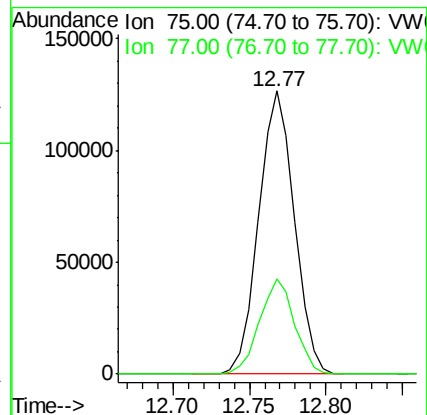
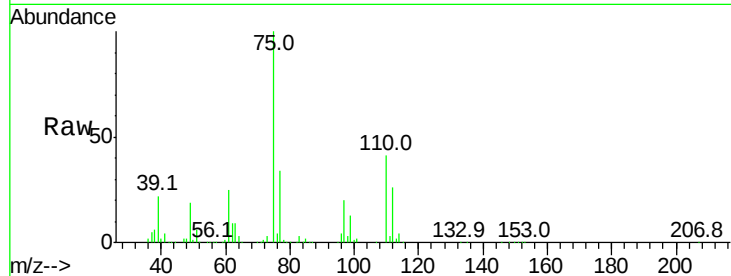
VSTD05002

Tgt Ion: 75 Resp: 205832

Ion Ratio Lower Upper

75 100

77 33.1 25.9 38.9



#62

Bromoform

Concen: 54.624 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

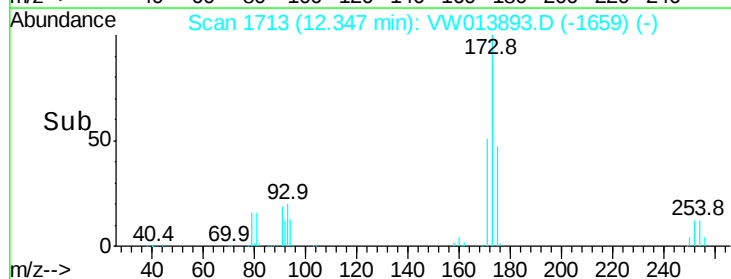
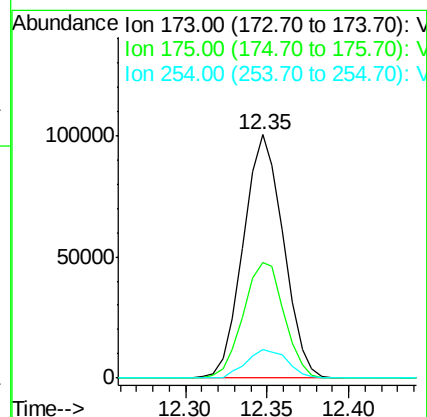
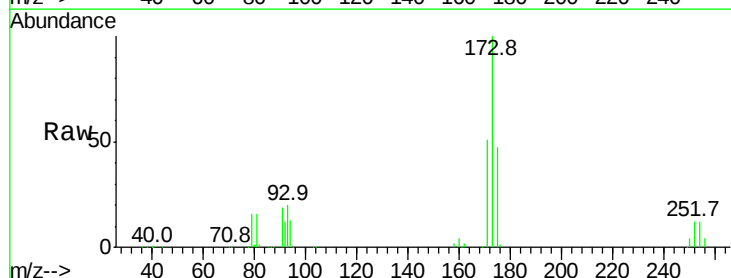
Tgt Ion: 173 Resp: 172294

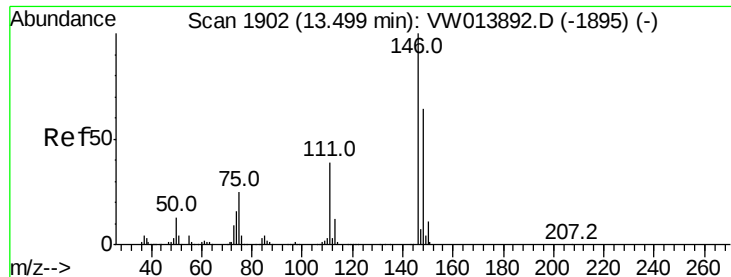
Ion Ratio Lower Upper

173 100

175 48.6 39.7 59.5

254 12.1 10.0 15.0

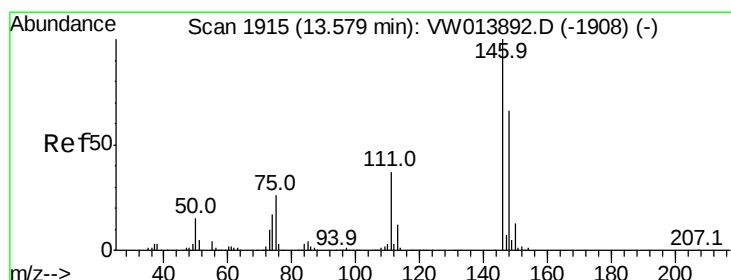
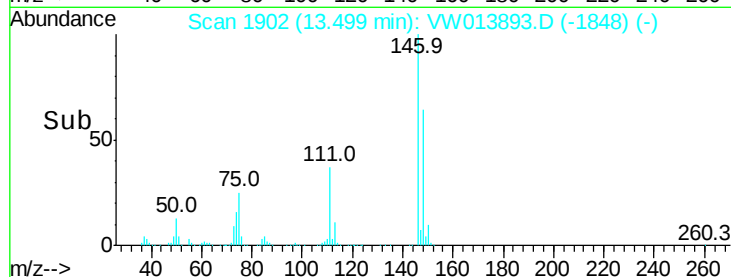
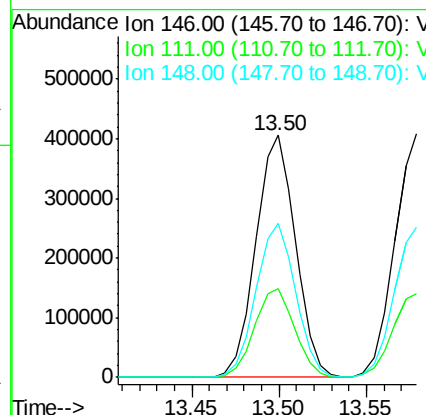
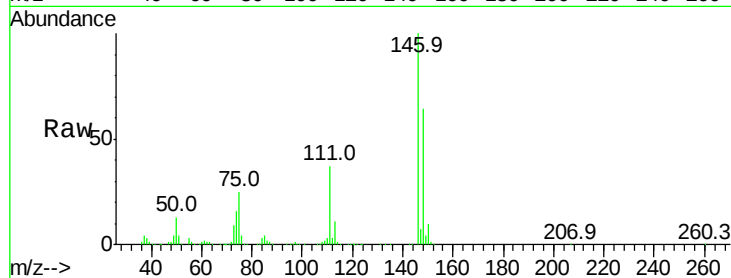




#63  
 1,3-Dichlorobenzene  
 Concen: 53.979 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW013893.D  
 Acq: 01 Nov 2019 11:55

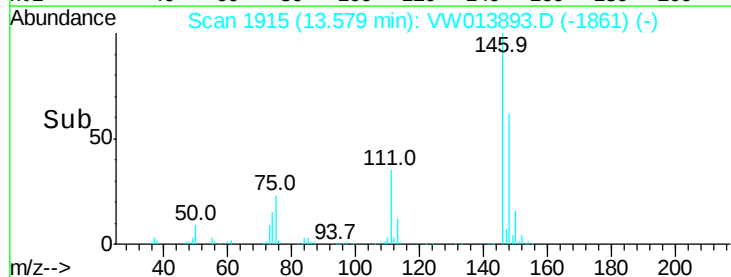
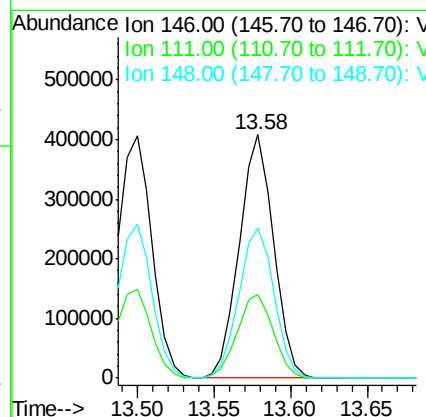
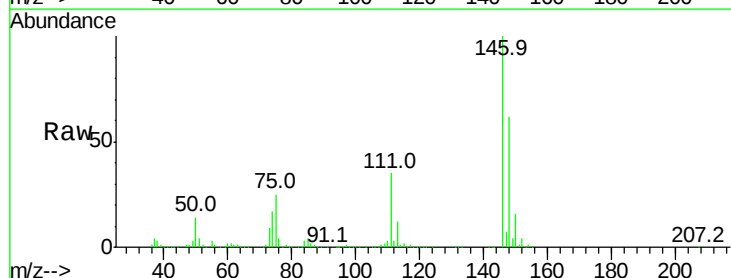
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05002

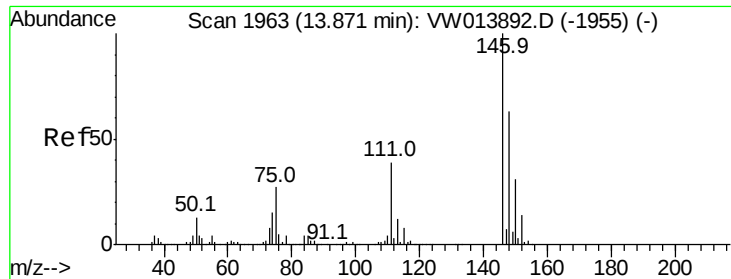
Tgt Ion:146 Resp: 638687  
 Ion Ratio Lower Upper  
 146 100  
 111 36.8 27.4 51.0  
 148 63.6 44.6 82.8



#64  
 1,4-Dichlorobenzene  
 Concen: 53.094 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW013893.D  
 Acq: 01 Nov 2019 11:55

Tgt Ion:146 Resp: 637227  
 Ion Ratio Lower Upper  
 146 100  
 111 34.6 25.9 48.1  
 148 61.5 46.3 86.1

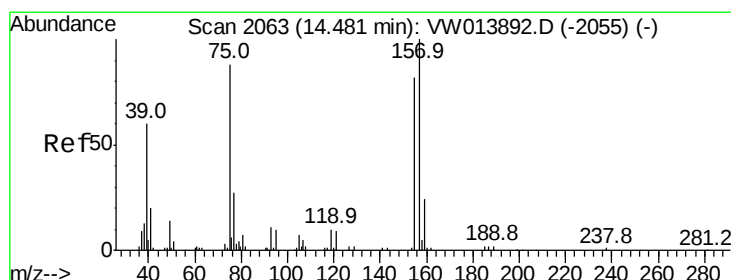
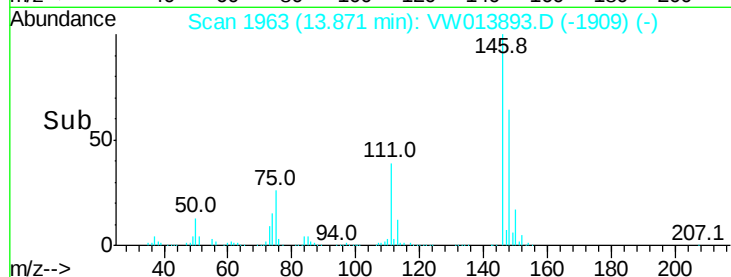
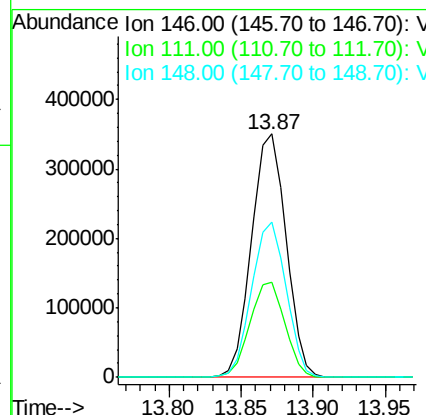
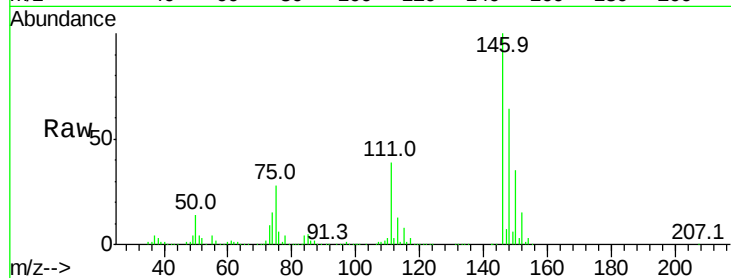




#65  
 1,2-Dichlorobenzene  
 Concen: 53.078 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.00 min  
 Lab File: VW013893.D  
 Acq: 01 Nov 2019 11:55

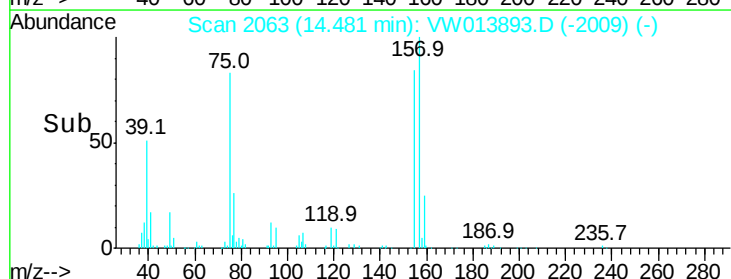
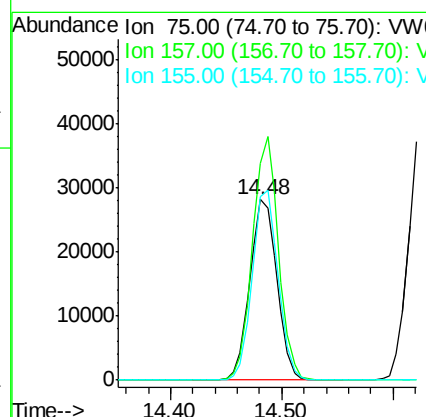
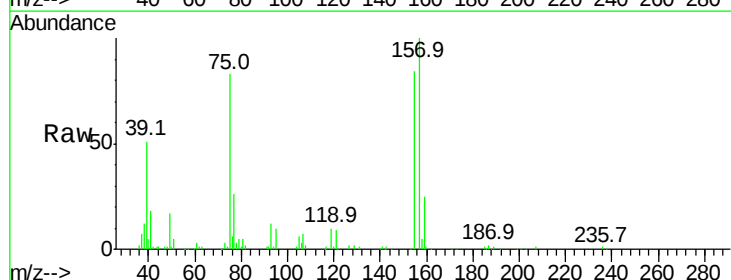
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05002

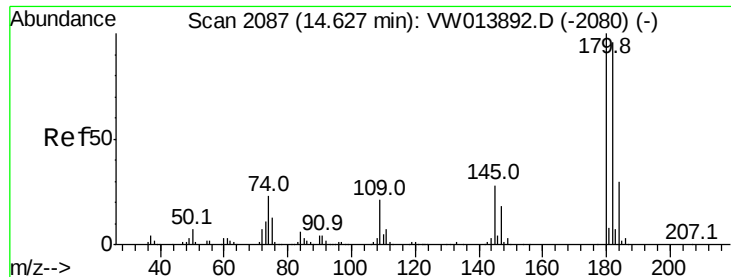
Tgt Ion:146 Resp: 580487  
 Ion Ratio Lower Upper  
 146 100  
 111 39.2 31.6 47.4  
 148 63.7 50.7 76.1



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 55.099 ug/L  
 RT: 14.48 min Scan# 2063  
 Delta R.T. 0.00 min  
 Lab File: VW013893.D  
 Acq: 01 Nov 2019 11:55

Tgt Ion: 75 Resp: 47627  
 Ion Ratio Lower Upper  
 75 100  
 157 120.1 91.0 136.6  
 155 101.4 74.7 112.1

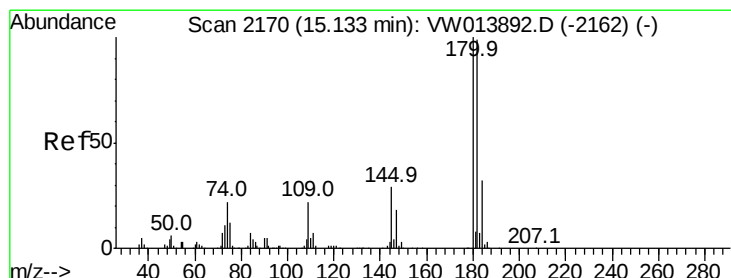
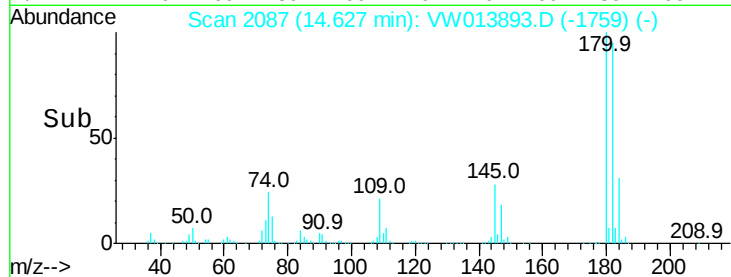
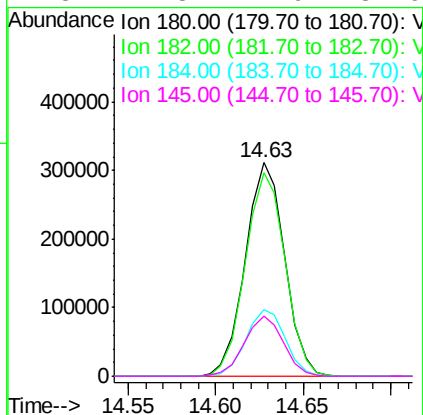
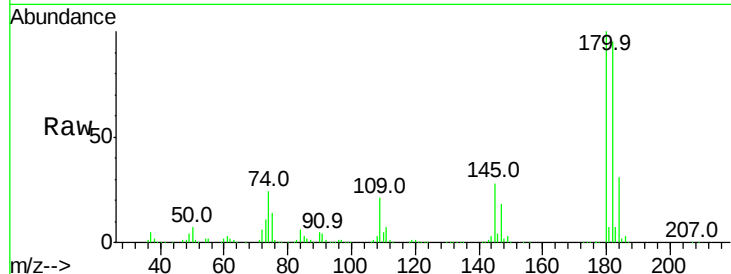




#67  
 1,3,5-Trichlorobenzene  
 Concen: 53.868 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. 0.00 min  
 Lab File: VW013893.D  
 Acq: 01 Nov 2019 11:55

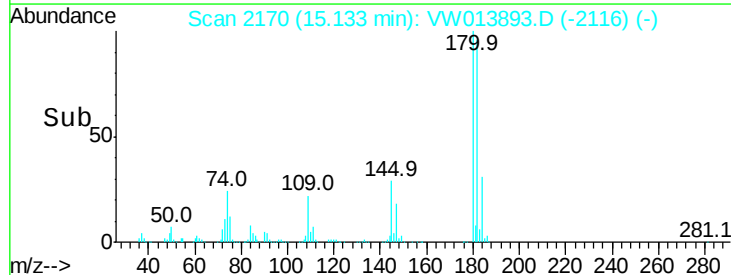
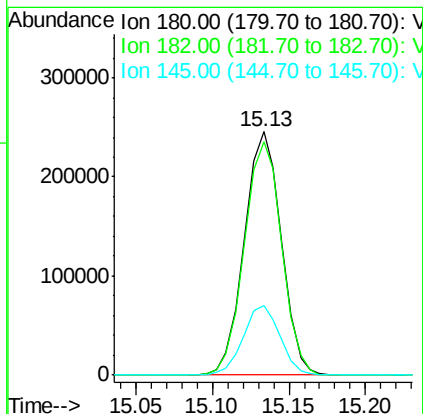
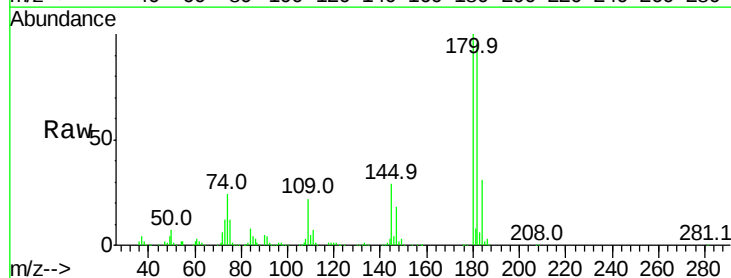
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD05002

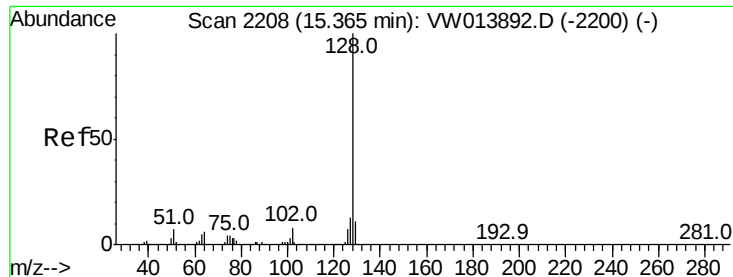
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.1  | 76.8  | 115.2 |
| 184     | 31.2  | 23.8  | 35.8  |
| 145     | 27.8  | 21.9  | 32.9  |



#68  
 1,2,4-trichlorobenzene  
 Concen: 56.538 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW013893.D  
 Acq: 01 Nov 2019 11:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.0  | 78.9  | 118.3 |
| 145     | 28.4  | 22.7  | 34.1  |





#69

Naphthalene

Concen: 60.935 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

Instrument :

MSVOA\_W

ClientSampleId :

VSTD05002

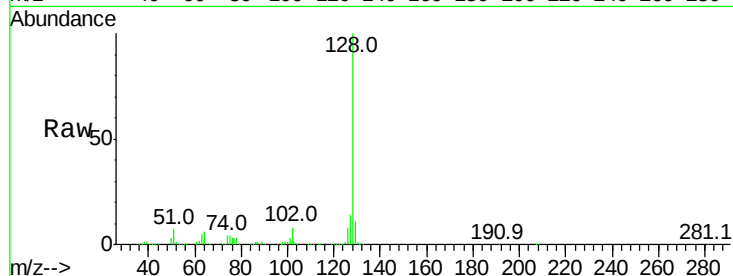
Tgt Ion:128 Resp: 855873

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

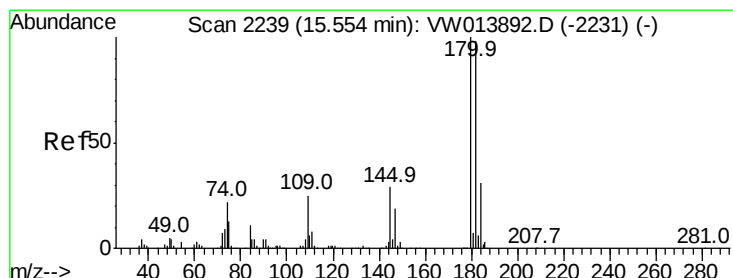
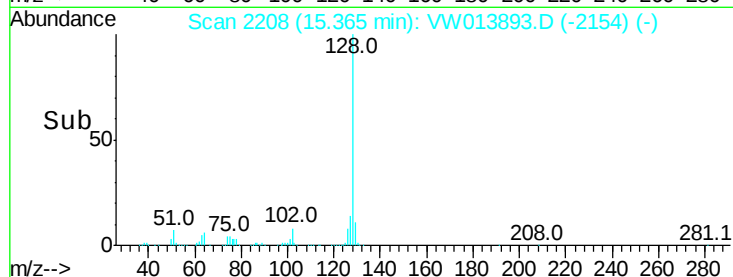
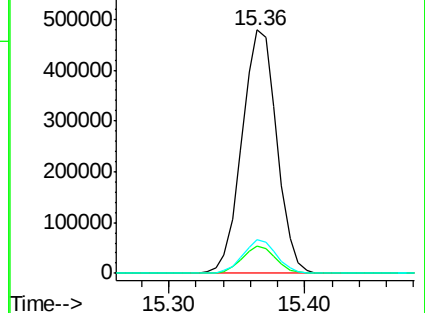
127 13.3 10.6 16.0



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: 56.450 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW013893.D

Acq: 01 Nov 2019 11:55

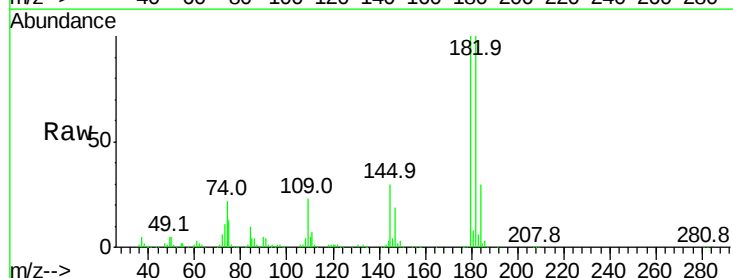
Tgt Ion:180 Resp: 381053

Ion Ratio Lower Upper

180 100

182 96.2 77.0 115.6

145 29.5 24.0 36.0



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

