

Data File : VW014972.D  
Acq On : 13 Feb 2020 10:40  
Operator : SY/VA  
Sample : VSTD02503  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025303

Quant Time: Feb 13 11:43:41 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM021320SMA.M  
Quant Title : SFAM01.0  
QLast Update : Thu Feb 13 11:35:52 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 753782   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 695704   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 319436   | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |         |       |      |      |
|--------------------------------|-------|-----|---------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.36  | 65  | 392706  | 37.91 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 299458  | 33.21 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 4.03  | 63  | 687961  | 37.64 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 7.07  | 46  | 225814  | 49.51 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 614900  | 36.33 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 362526  | 36.69 | ug/L | 0.00 |
| 32) Benzene-d6                 | 8.27  | 84  | 1236906 | 33.26 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 9.27  | 67  | 418115  | 36.52 | ug/L | 0.00 |
| 41) Toluene-d8                 | 10.32 | 98  | 1085108 | 31.70 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 10.57 | 79  | 163138  | 28.24 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 10.92 | 63  | 165538  | 41.78 | ug/L | 0.00 |
| 56) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 319801  | 25.74 | ug/L | 0.00 |
| 66) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 309259  | 26.95 | ug/L | 0.00 |

Target Compounds

|                                |       |     |         |        |      | Qvalue |
|--------------------------------|-------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 170733  | 14.492 | ug/L | 100    |
| 3) Chloromethane               | 2.21  | 50  | 303978  | 23.617 | ug/L | 100    |
| 5) Vinyl chloride              | 2.37  | 62  | 411774  | 30.409 | ug/L | 100    |
| 6) Bromomethane                | 2.78  | 94  | 186095  | 23.620 | ug/L | 100    |
| 8) Chloroethane                | 2.93  | 64  | 223129  | 28.565 | ug/L | 100    |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 168987  | 10.632 | ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 4.07  | 101 | 277336  | 28.106 | ug/L | 100    |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 267301  | 27.456 | ug/L | 100    |
| 13) Acetone                    | 4.12  | 43  | 217170  | 41.263 | ug/L | 100    |
| 14) Carbon disulfide           | 4.39  | 76  | 952972  | 28.983 | ug/L | 100    |
| 15) Methyl Acetate             | 4.67  | 43  | 187915  | 23.104 | ug/L | 100    |
| 16) Methylene chloride         | 4.92  | 84  | 297943  | 23.660 | ug/L | 100    |
| 17) trans-1,2-Dichloroethene   | 5.42  | 96  | 267009  | 24.492 | ug/L | 100    |
| 18) Methyl tert-butyl Ether    | 5.43  | 73  | 342540  | 11.377 | ug/L | 100    |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 591932  | 31.801 | ug/L | 100    |
| 20) cis-1,2-Dichloroethene     | 7.17  | 96  | 279863  | 23.372 | ug/L | 100    |
| 22) 2-Butanone                 | 7.17  | 43  | 267969  | 40.666 | ug/L | 100    |
| 23) Bromochloromethane         | 7.51  | 128 | 111293  | 21.024 | ug/L | 100    |
| 25) Chloroform                 | 7.67  | 83  | 529962  | 28.775 | ug/L | 100    |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 393110  | 30.103 | ug/L | 100    |
| 29) Cyclohexane                | 7.96  | 56  | 585240  | 30.133 | ug/L | 100    |
| 30) 1,1,1-Trichloroethane      | 7.87  | 97  | 404705  | 25.930 | ug/L | 100    |
| 31) Carbon tetrachloride       | 8.07  | 117 | 364319  | 26.467 | ug/L | # 1    |
| 33) Benzene                    | 8.32  | 78  | 1249827 | 28.184 | ug/L | 100    |
| 34) Trichloroethene            | 9.09  | 95  | 289956  | 25.622 | ug/L | 100    |
| 35) Methylcyclohexane          | 9.34  | 83  | 531068  | 25.462 | ug/L | 100    |
| 37) 1,2-Dichloropropane        | 9.37  | 63  | 341210  | 30.538 | ug/L | 100    |
| 38) Bromodichloromethane       | 9.64  | 83  | 380610  | 26.610 | ug/L | 100    |
| 39) cis-1,3-Dichloropropene    | 10.07 | 75  | 470151  | 24.841 | ug/L | 100    |
| 40) 4-Methyl-2-pentanone       | 10.21 | 43  | 528080  | 43.533 | ug/L | 100    |

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025303

Quant Time: Feb 13 11:43:41 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM021320SMA.M  
Quant Title : SFAM01.0  
QLast Update : Thu Feb 13 11:35:52 2020  
Response via : Initial Calibration

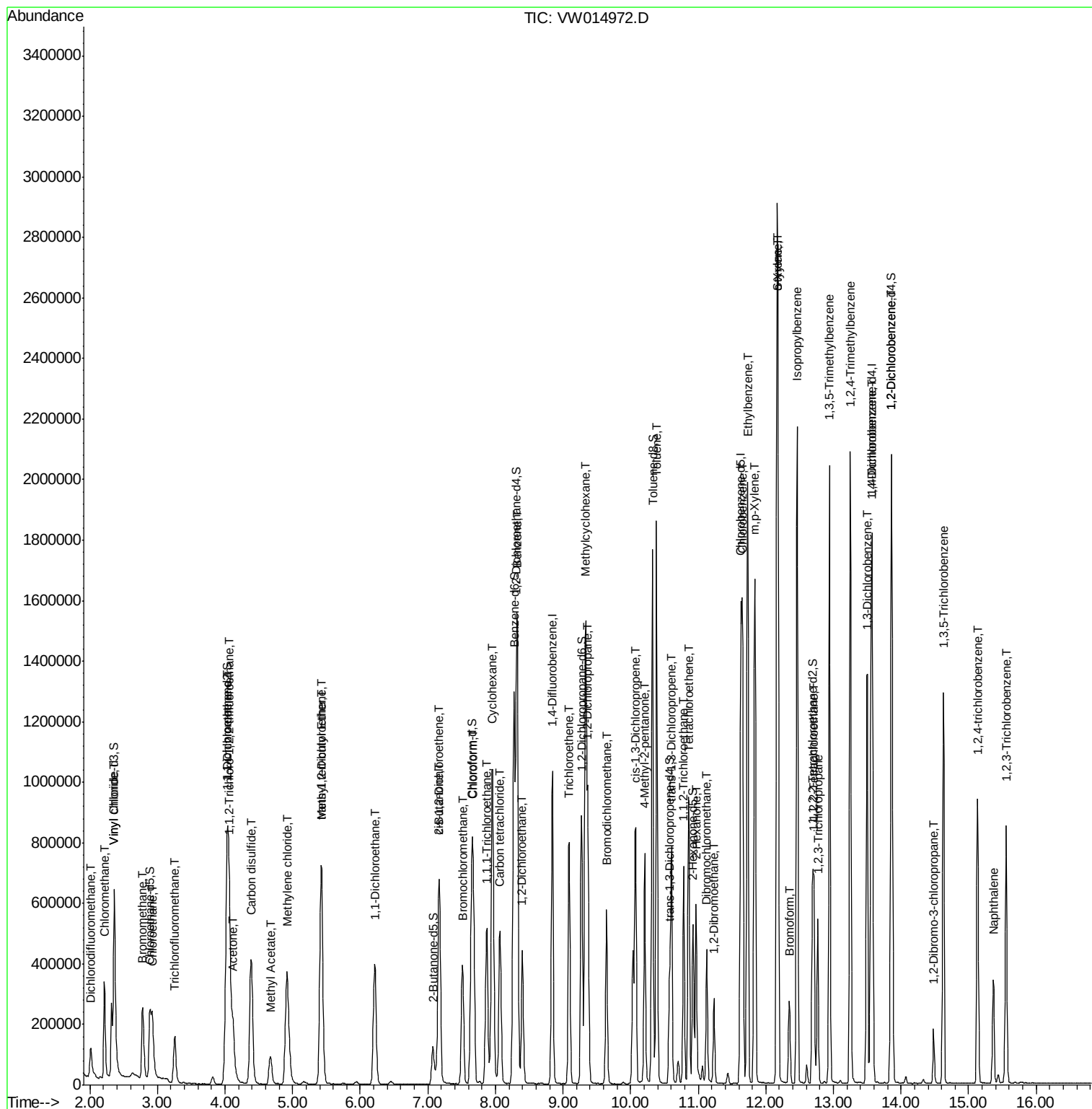
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 10.38 | 91   | 1246298  | 25.957 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 10.60 | 75   | 395688   | 24.575 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 10.79 | 97   | 209531   | 21.772 | ug/L  | 100      |
| 46) Tetrachloroethene          | 10.86 | 164  | 192737   | 22.141 | ug/L  | 100      |
| 48) 2-Hexanone                 | 10.97 | 43   | 402037   | 43.209 | ug/L  | 100      |
| 49) Dibromochloromethane       | 11.13 | 129  | 217526   | 20.912 | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 11.23 | 107  | 191291   | 19.678 | ug/L  | 100      |
| 51) Chlorobenzene              | 11.66 | 112  | 694832   | 22.839 | ug/L  | 100      |
| 52) Ethylbenzene               | 11.73 | 91   | 1356529  | 25.202 | ug/L  | 100      |
| 53) m,p-Xylene                 | 11.84 | 106  | 482115   | 23.052 | ug/L  | 100      |
| 54) o-Xylene                   | 12.16 | 106  | 450643   | 22.490 | ug/L  | 100      |
| 55) Styrene                    | 12.18 | 104  | 801910   | 22.863 | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 288393   | 21.374 | ug/L  | 100      |
| 59) Bromoform                  | 12.35 | 173  | 115786   | 17.143 | ug/L  | 100      |
| 60) Isopropylbenzene           | 12.46 | 105  | 1239537  | 24.356 | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane     | 12.77 | 75   | 221485   | 22.298 | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 1019503  | 24.202 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 1017561  | 24.414 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene        | 13.50 | 146  | 493659   | 21.868 | ug/L  | 100      |
| 65) 1,4-Dichlorobenzene        | 13.58 | 146  | 498132   | 21.981 | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene        | 13.87 | 146  | 462016   | 22.112 | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 48870    | 19.495 | ug/L  | 100      |
| 69) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 338222   | 21.807 | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene     | 15.13 | 180  | 263219   | 18.625 | ug/L  | 100      |
| 71) Naphthalene                | 15.36 | 128  | 274272   | 6.965  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 253787   | 19.250 | ug/L  | 100      |

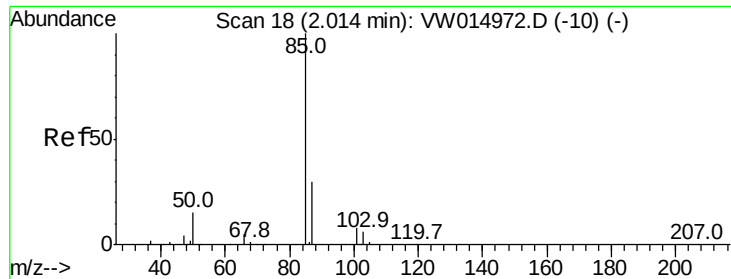
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#2

Dichlorodifluoromethane

Concen: 14.492 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

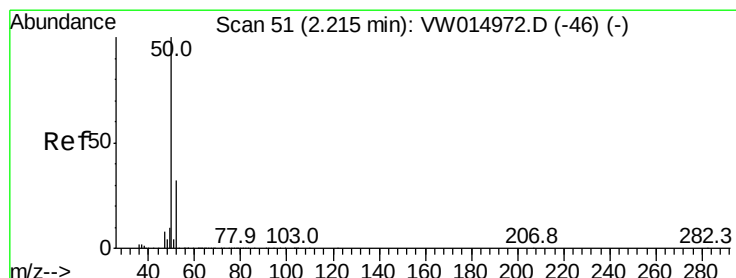
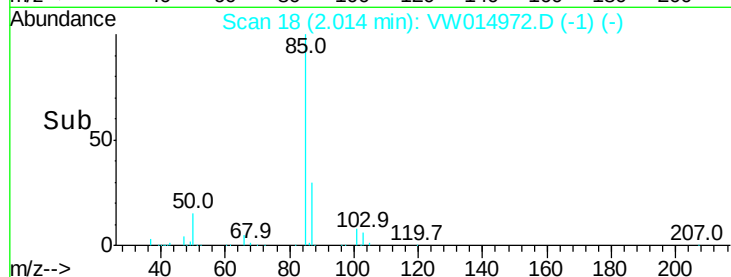
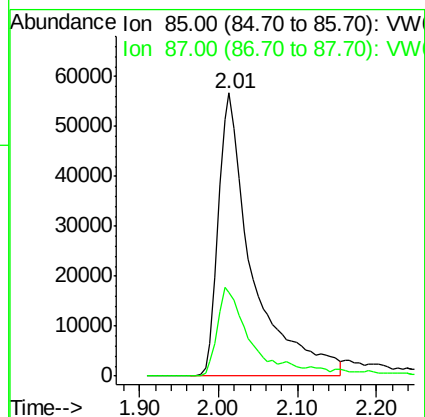
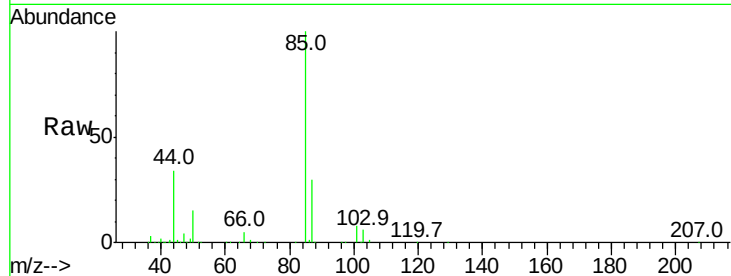
VSTD025303

Tgt Ion: 85 Resp: 170733

Ion Ratio Lower Upper

85 100

87 26.9 21.5 32.3



#3

Chloromethane

Concen: 23.617 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW014972.D

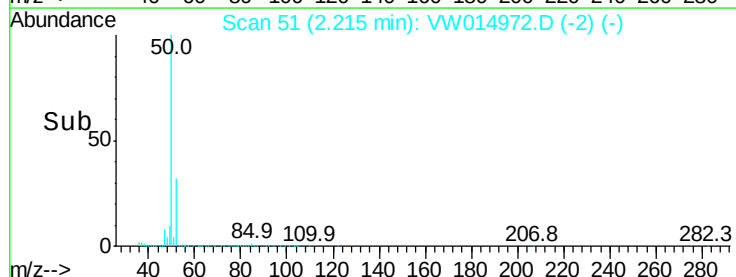
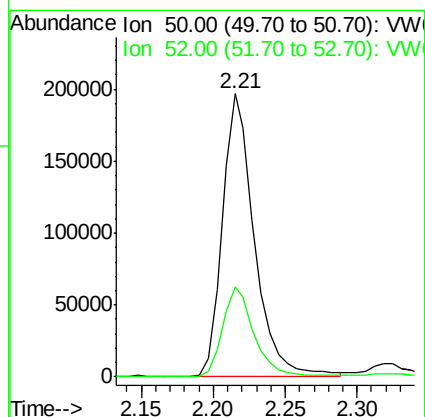
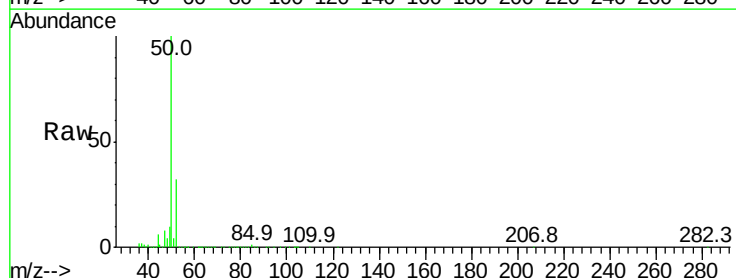
Acq: 13 Feb 2020 10:40

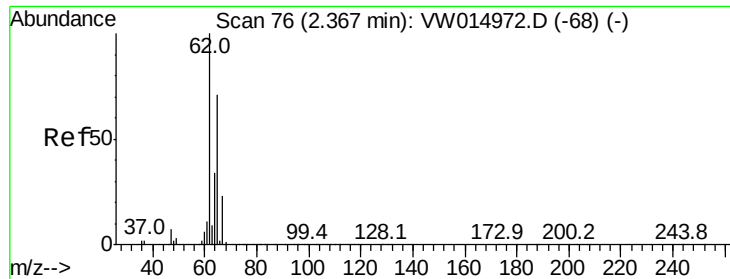
Tgt Ion: 50 Resp: 303978

Ion Ratio Lower Upper

50 100

52 31.8 22.3 41.3





#5

Vinyl chloride

Concen: 30.409 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

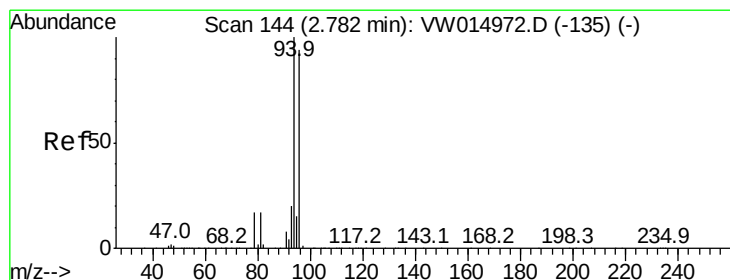
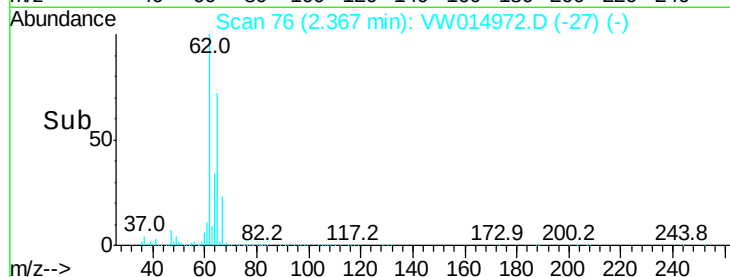
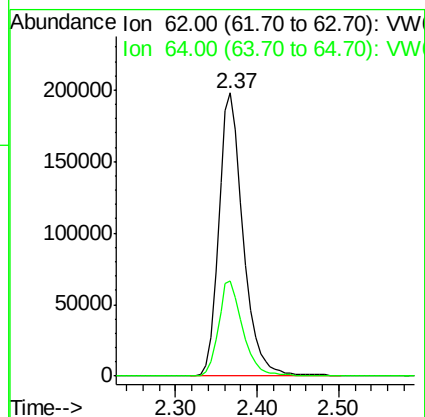
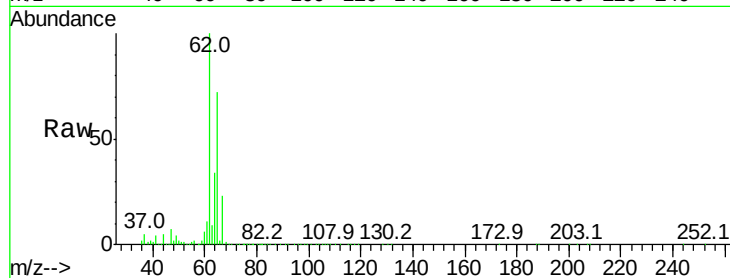
VSTD025303

Tgt Ion: 62 Resp: 411774

Ion Ratio Lower Upper

62 100

64 33.7 23.6 43.8



#6

Bromomethane

Concen: 23.620 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW014972.D

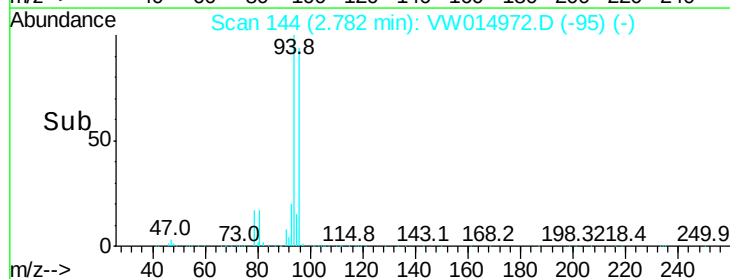
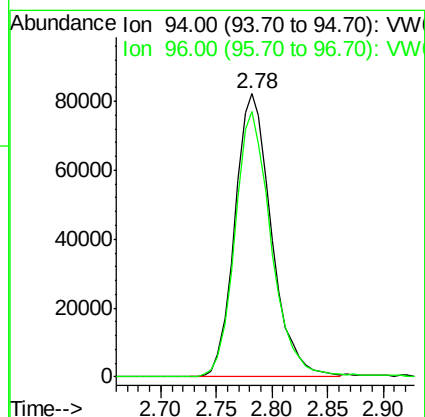
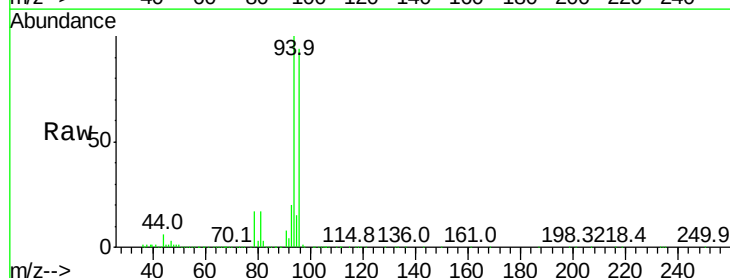
Acq: 13 Feb 2020 10:40

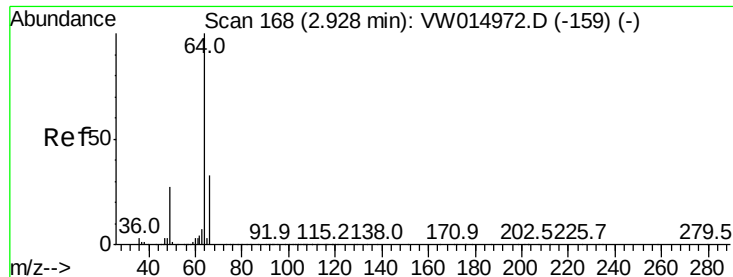
Tgt Ion: 94 Resp: 186095

Ion Ratio Lower Upper

94 100

96 94.0 65.8 122.2





#8

Chloroethane

Concen: 28.565 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

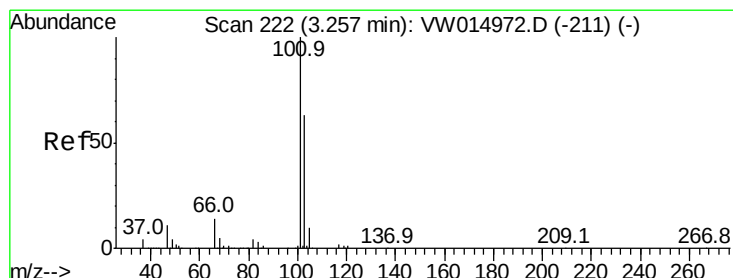
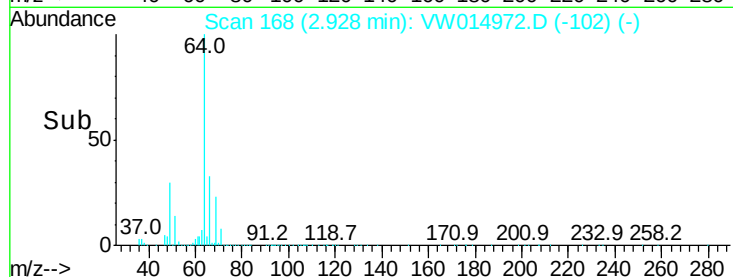
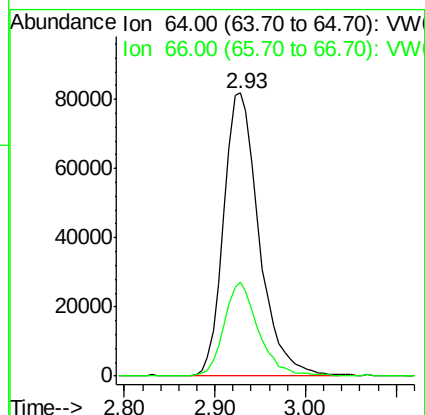
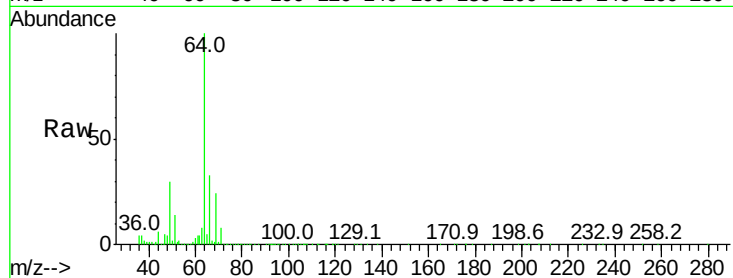
VSTD025303

Tgt Ion: 64 Resp: 223129

Ion Ratio Lower Upper

64 100

66 33.0 23.1 42.9



#9

Trichlorofluoromethane

Concen: 10.632 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW014972.D

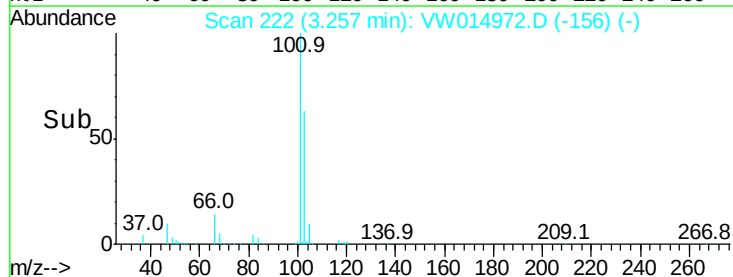
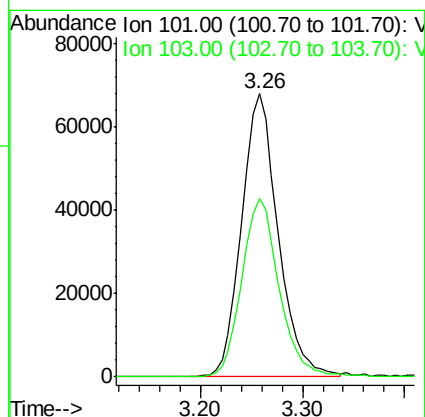
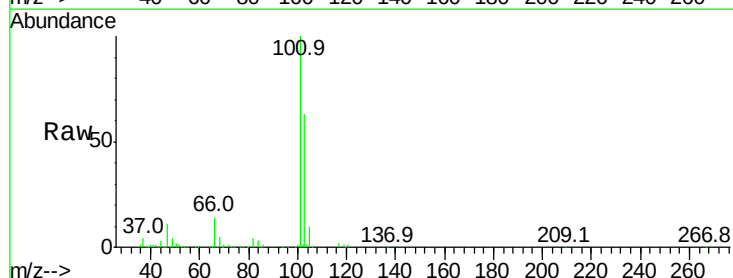
Acq: 13 Feb 2020 10:40

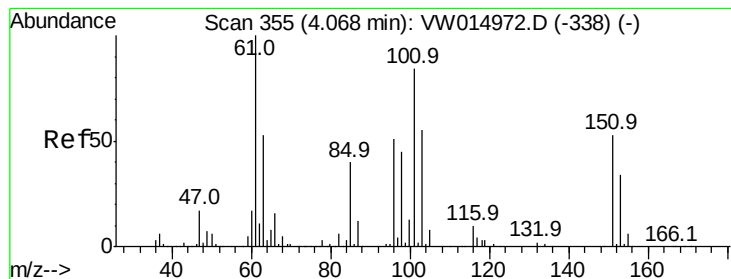
Tgt Ion: 101 Resp: 168987

Ion Ratio Lower Upper

101 100

103 64.4 51.5 77.3





#10

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

Concen: 28.106 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025303

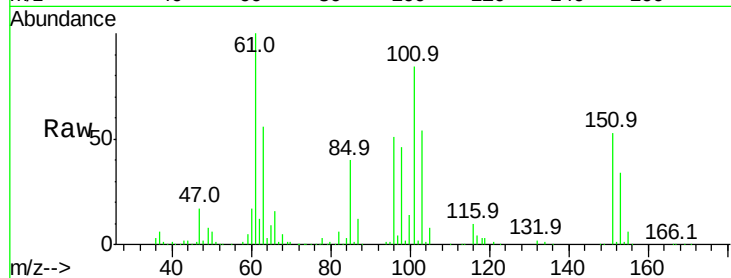
Tgt Ion: 101 Resp: 277336

Ion Ratio Lower Upper

101 100

85 45.6 36.5 54.7

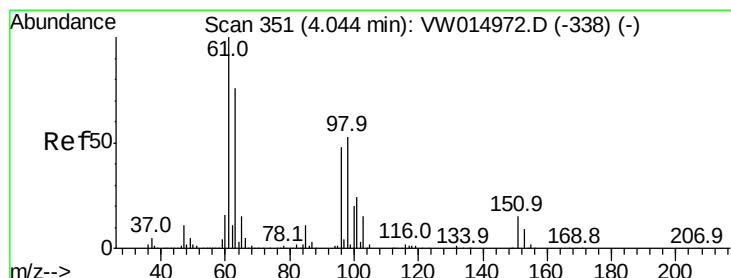
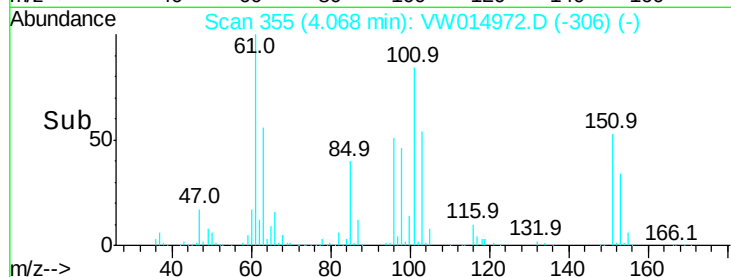
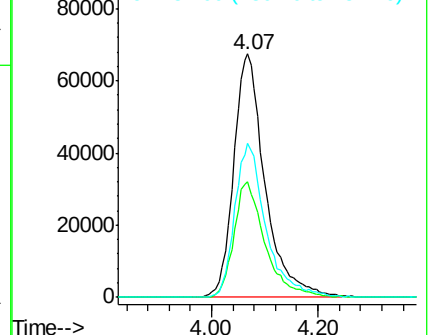
151 62.8 50.2 75.4



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: 27.456 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

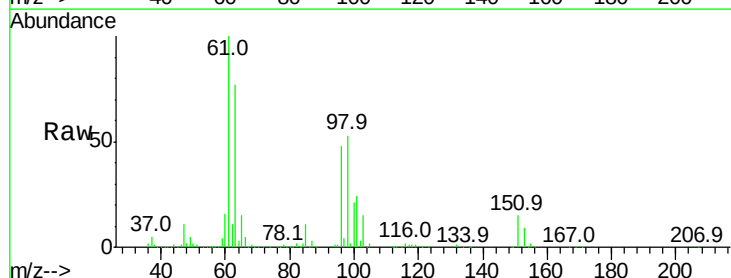
Tgt Ion: 96 Resp: 267301

Ion Ratio Lower Upper

96 100

61 210.0 147.0 273.0

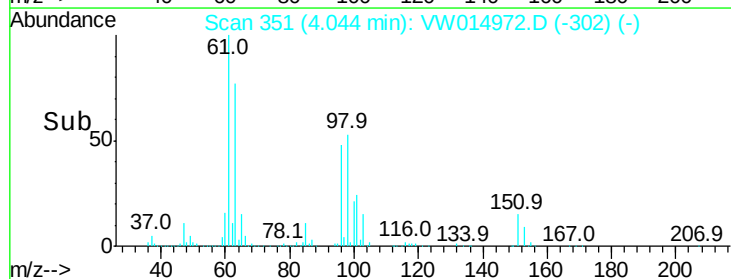
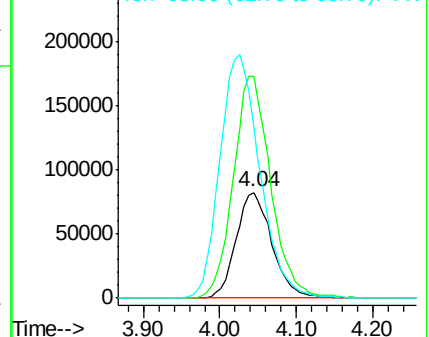
63 162.0 113.4 210.6

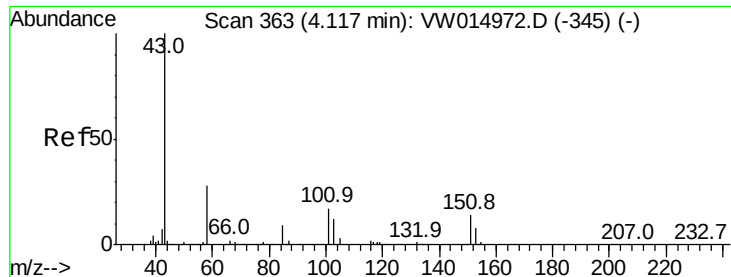


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 41.263 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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Instrument :

MSVOA\_W

ClientSampleId :

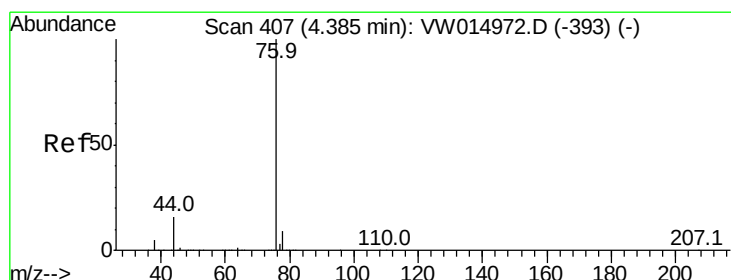
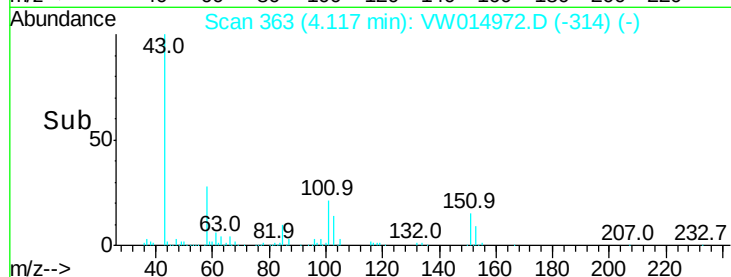
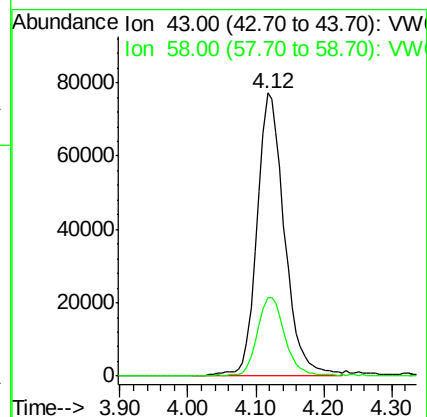
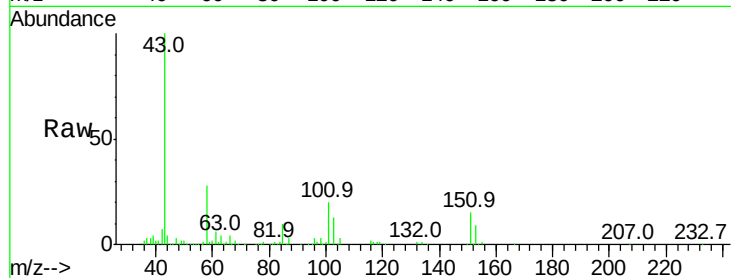
VSTD025303

Tgt Ion: 43 Resp: 217170

Ion Ratio Lower Upper

43 100

58 27.3 0.0 54.6



#14

Carbon disulfide

Concen: 28.983 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW014972.D

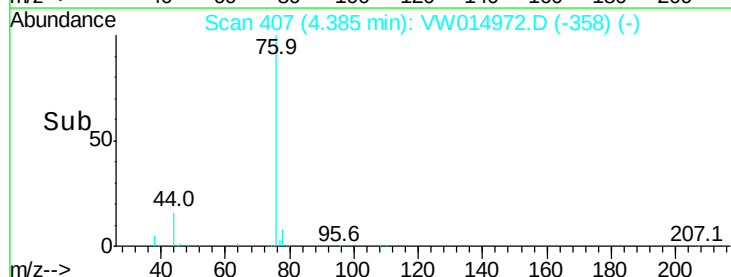
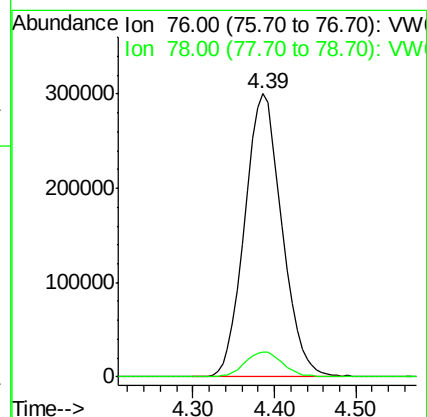
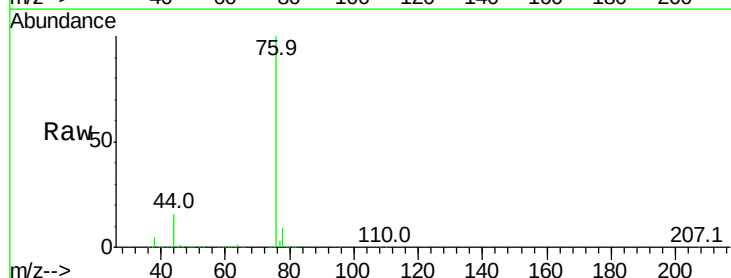
Acq: 13 Feb 2020 10:40

Tgt Ion: 76 Resp: 952972

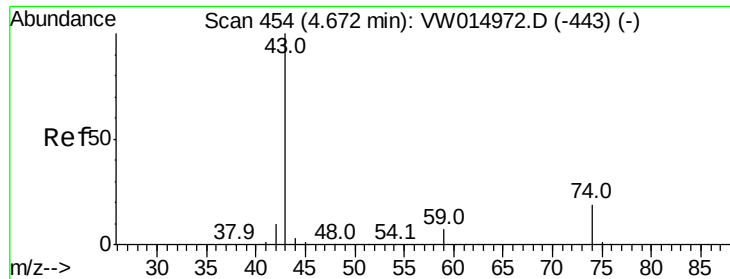
Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8



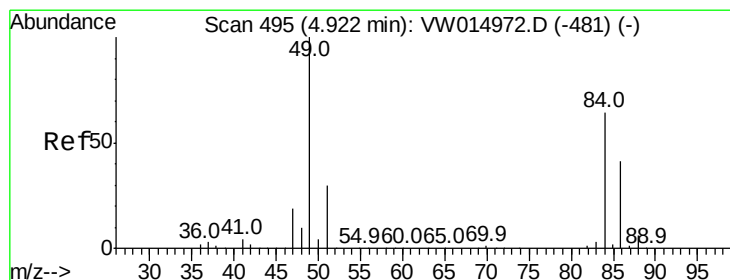
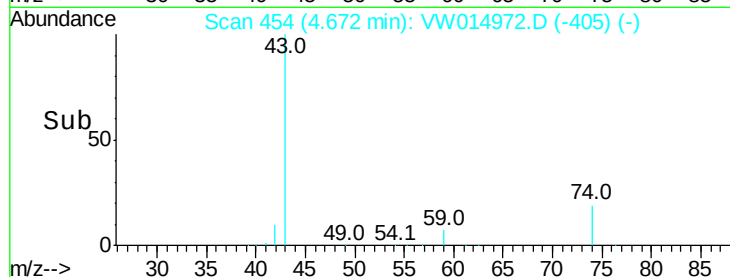
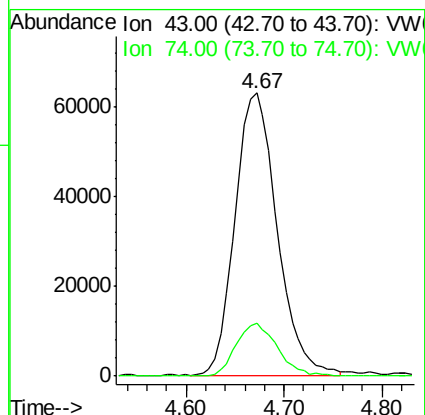
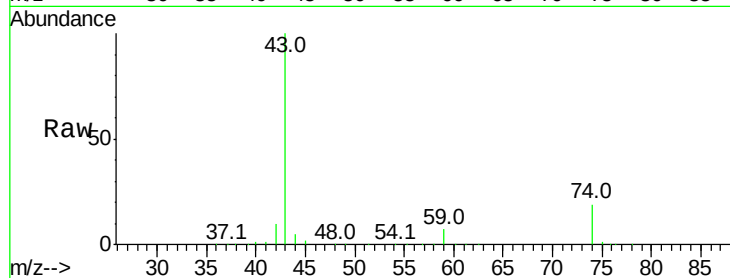




#15  
Methyl Acetate  
Concen: 23.104 ug/L  
RT: 4.67 min Scan# 454  
Delta R.T. 0.00 min  
Lab File: VW014972.D  
Acq: 13 Feb 2020 10:40

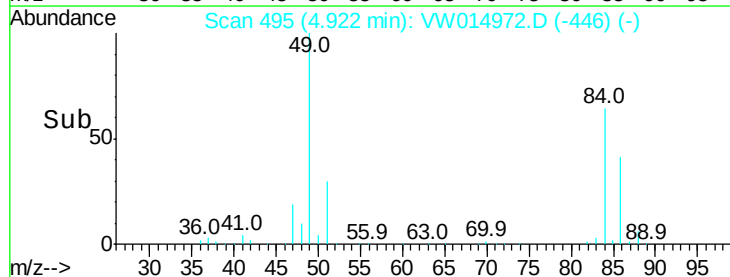
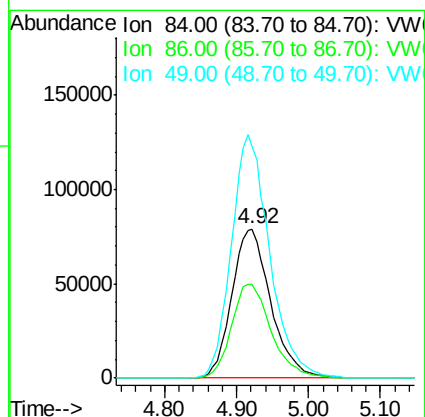
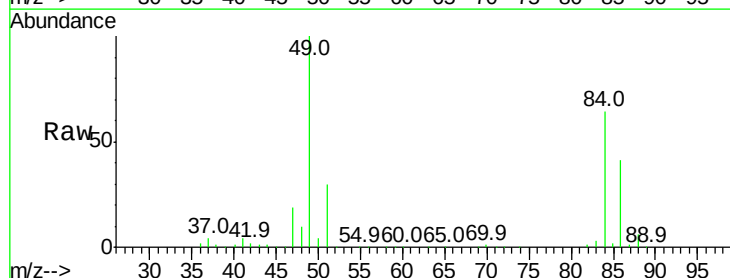
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025303

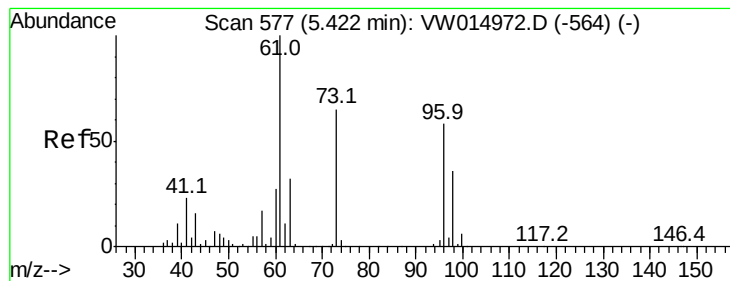
Tgt Ion: 43 Resp: 187915  
Ion Ratio Lower Upper  
43 100  
74 18.2 14.6 21.8



#16  
Methylene chloride  
Concen: 23.660 ug/L  
RT: 4.92 min Scan# 495  
Delta R.T. 0.00 min  
Lab File: VW014972.D  
Acq: 13 Feb 2020 10:40

Tgt Ion: 84 Resp: 297943  
Ion Ratio Lower Upper  
84 100  
86 63.4 44.4 82.4  
49 155.7 109.0 202.4





#17

trans-1,2-Dichloroethene

Concen: 24.492 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025303

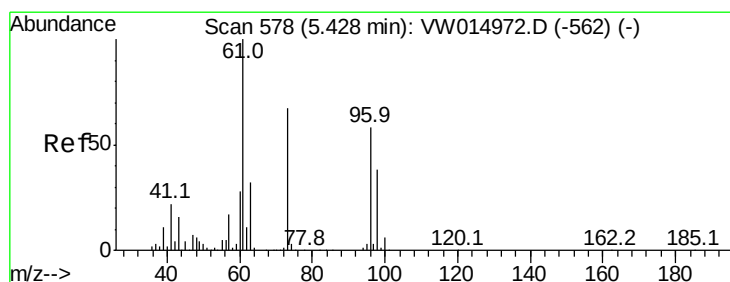
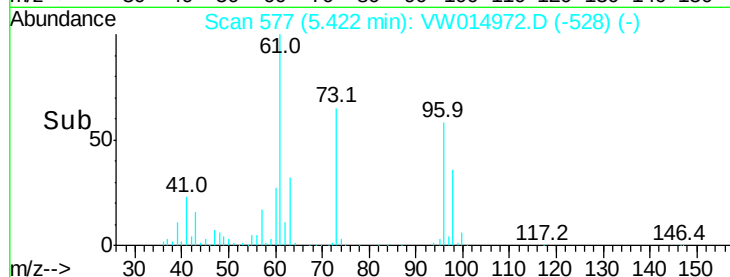
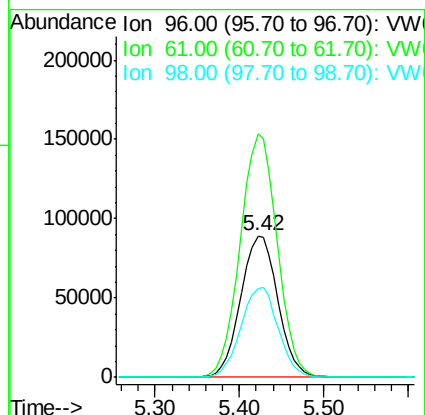
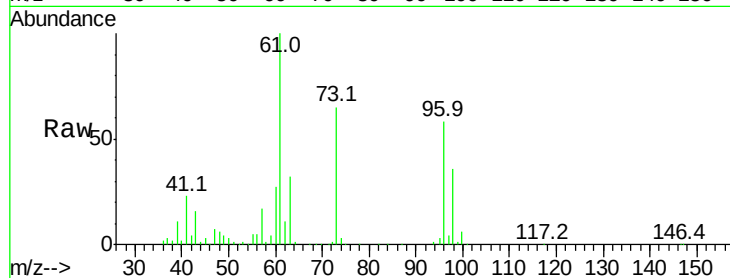
Tgt Ion: 96 Resp: 267009

Ion Ratio Lower Upper

96 100

61 171.6 120.1 223.1

98 62.5 43.8 81.3



#18

Methyl tert-butyl Ether

Concen: 11.377 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

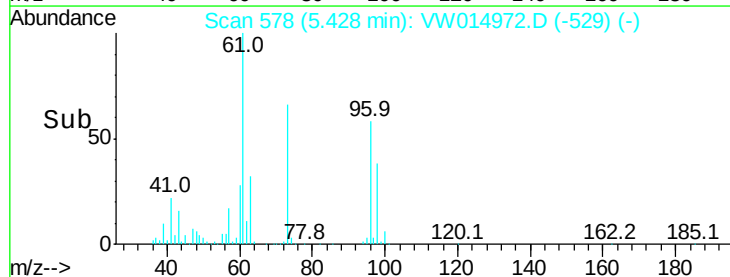
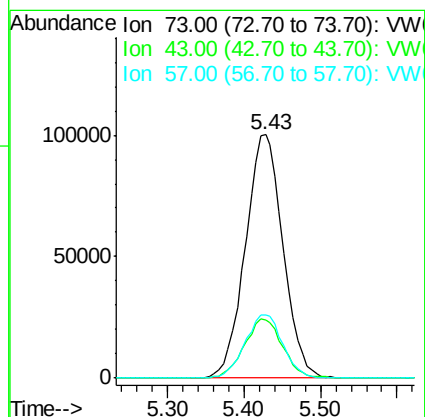
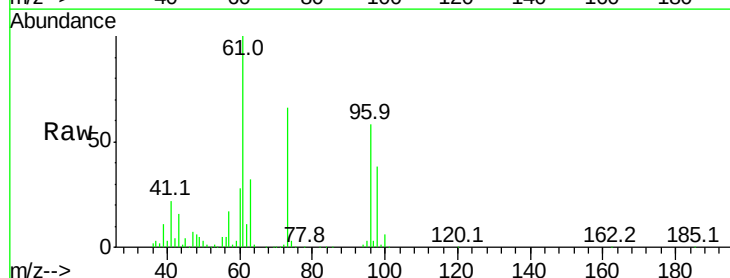
Tgt Ion: 73 Resp: 342540

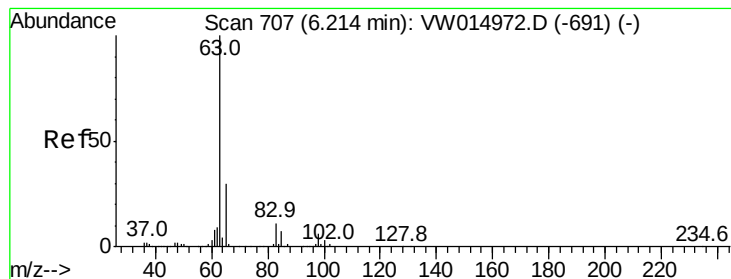
Ion Ratio Lower Upper

73 100

43 24.5 19.6 29.4

57 26.2 21.0 31.4





#19

1,1-Dichloroethane

Concen: 31.801 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025303

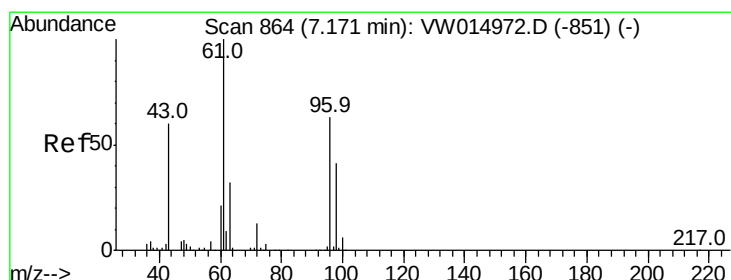
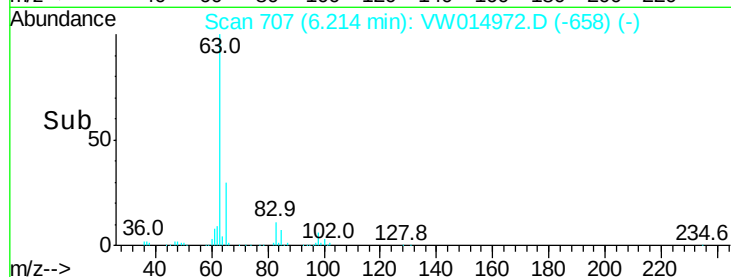
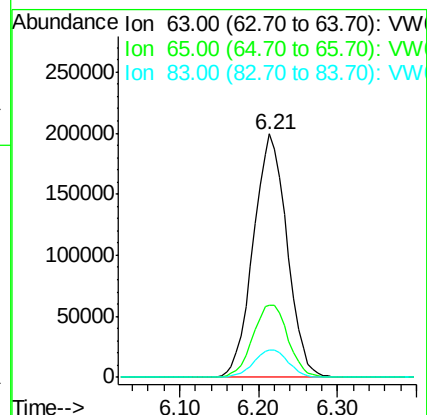
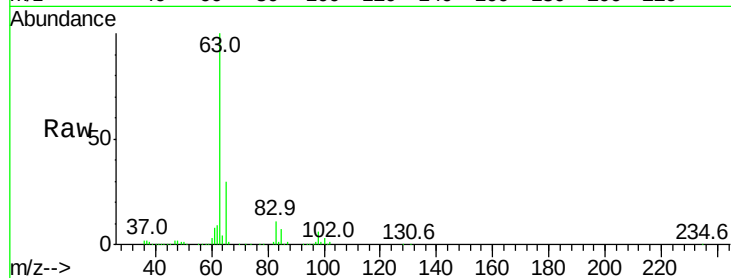
Tgt Ion: 63 Resp: 591932

Ion Ratio Lower Upper

63 100

65 29.8 20.9 38.7

83 11.2 7.8 14.6



#20

cis-1,2-Dichloroethene

Concen: 23.372 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

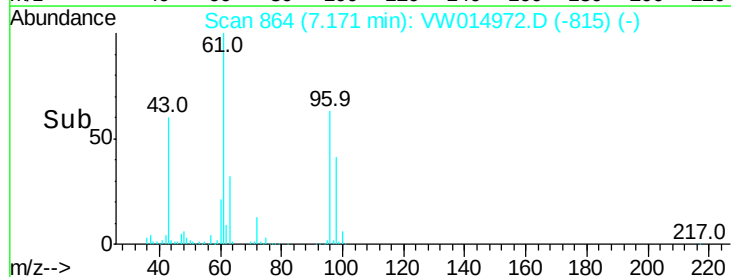
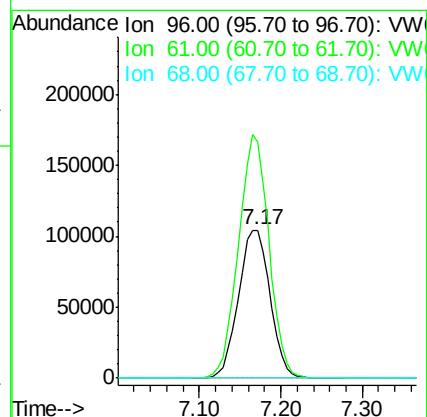
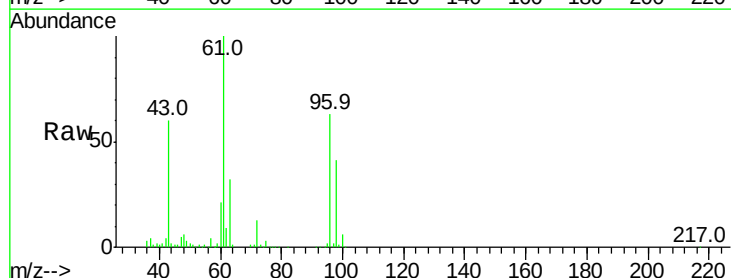
Tgt Ion: 96 Resp: 279863

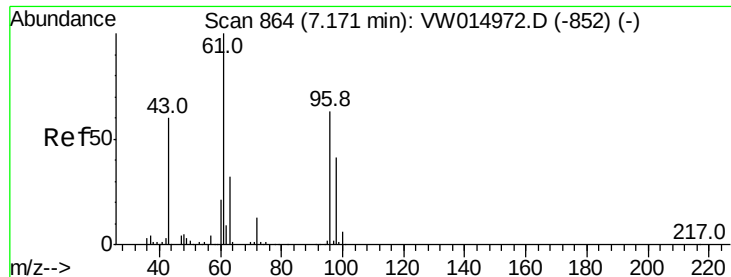
Ion Ratio Lower Upper

96 100

61 159.3 111.5 207.1

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 40.666 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampled :

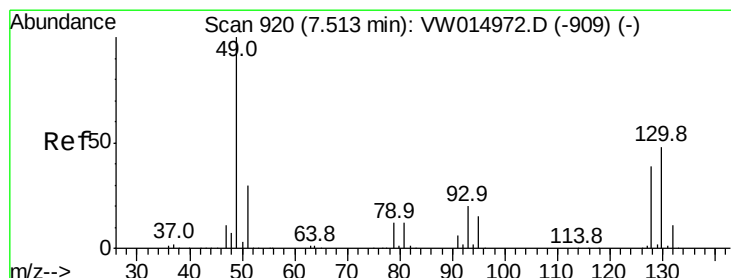
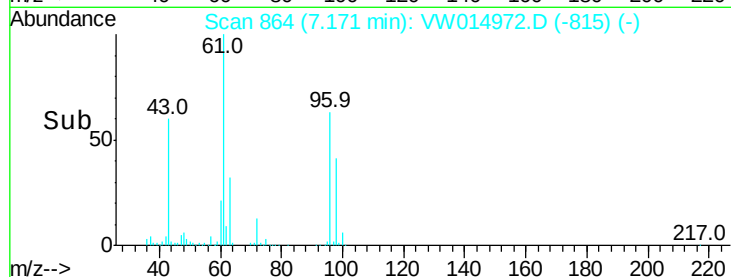
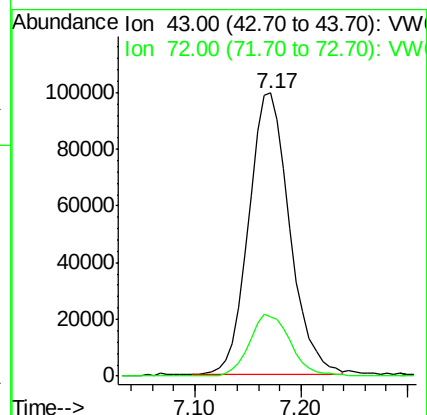
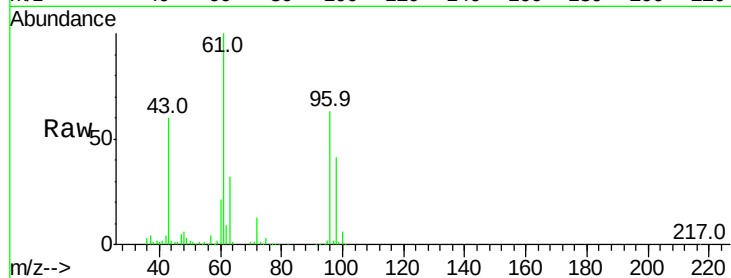
VSTD025303

Tgt Ion: 43 Resp: 267969

Ion Ratio Lower Upper

43 100

72 22.1 11.1 33.1



#23

Bromochloromethane

Concen: 21.024 ug/L

RT: 7.51 min Scan# 920

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Tgt Ion: 128 Resp: 111293

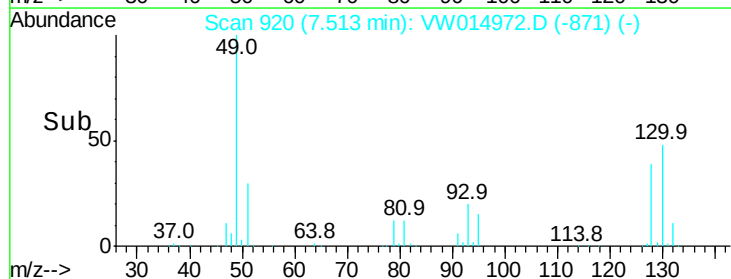
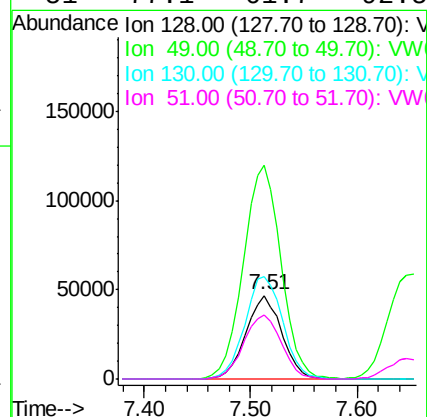
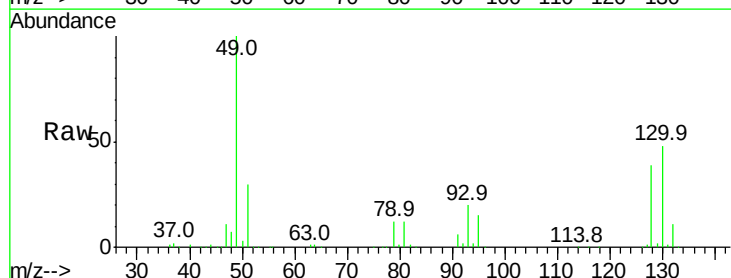
Ion Ratio Lower Upper

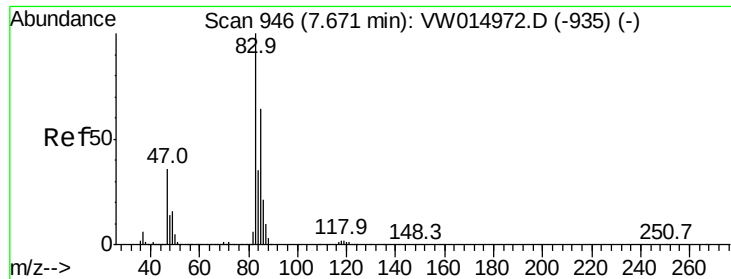
128 100

49 255.7 179.0 332.4

130 122.1 85.5 158.7

51 77.1 61.7 92.5

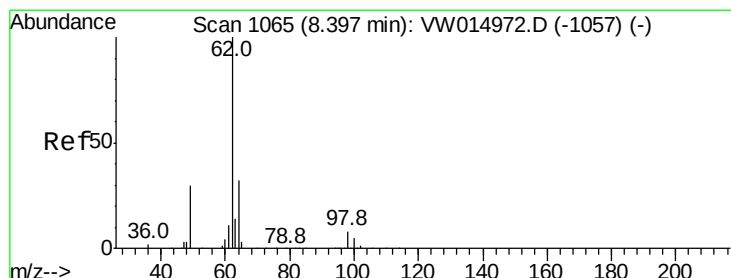
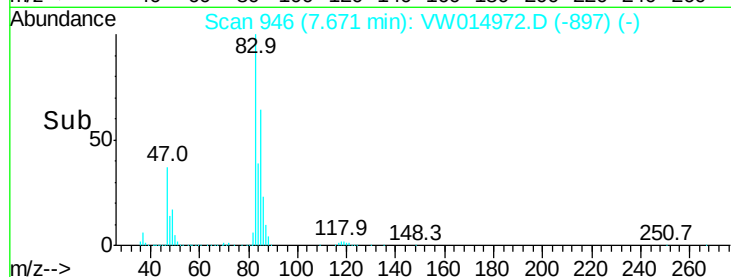
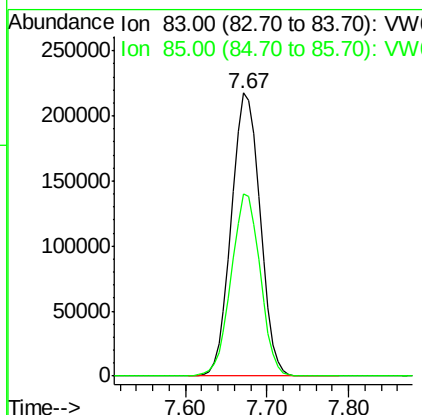
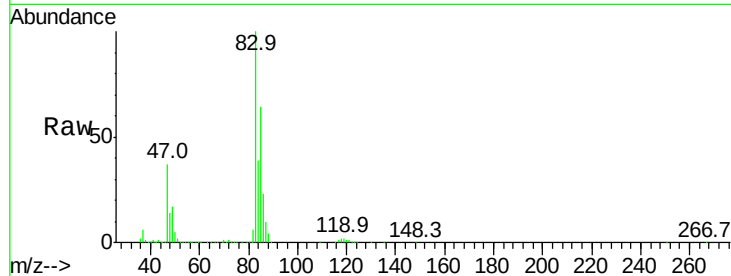




#25  
Chloroform  
Concen: 28.775 ug/L  
RT: 7.67 min Scan# 946  
Delta R.T. 0.00 min  
Lab File: VW014972.D  
Acq: 13 Feb 2020 10:40

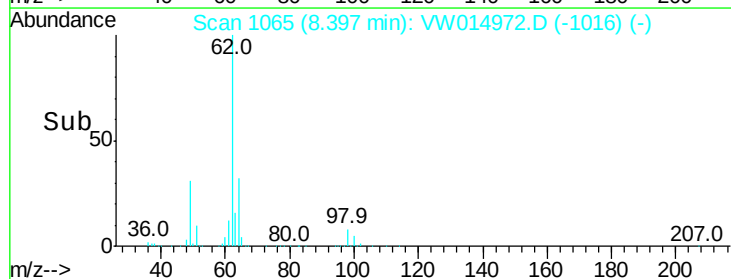
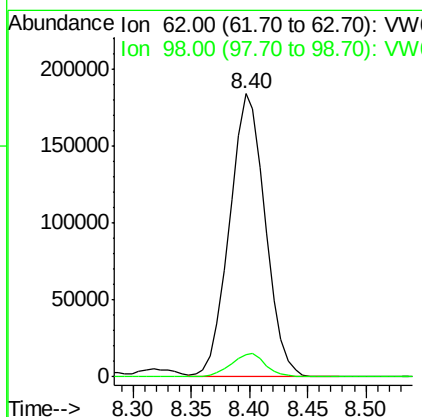
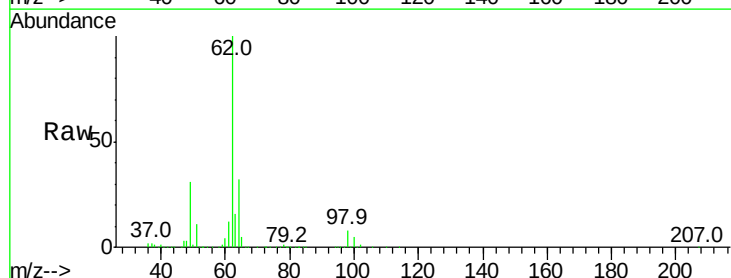
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025303

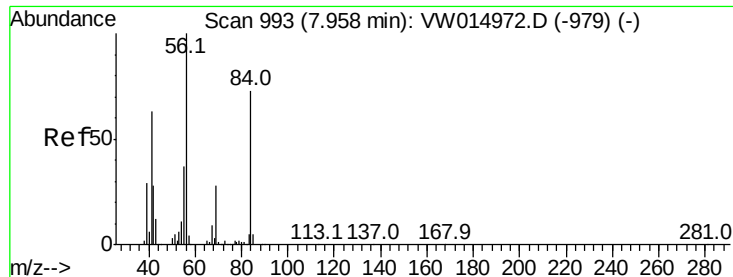
Tgt Ion: 83 Resp: 529962  
Ion Ratio Lower Upper  
83 100  
85 64.4 45.1 83.7



#27  
1,2-Dichloroethane  
Concen: 30.103 ug/L  
RT: 8.40 min Scan# 1065  
Delta R.T. 0.00 min  
Lab File: VW014972.D  
Acq: 13 Feb 2020 10:40

Tgt Ion: 62 Resp: 393110  
Ion Ratio Lower Upper  
62 100  
98 7.8 6.2 9.4





#29

Cyclohexane

Concen: 30.133 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025303

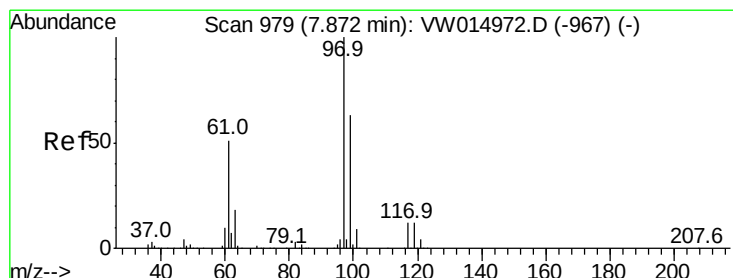
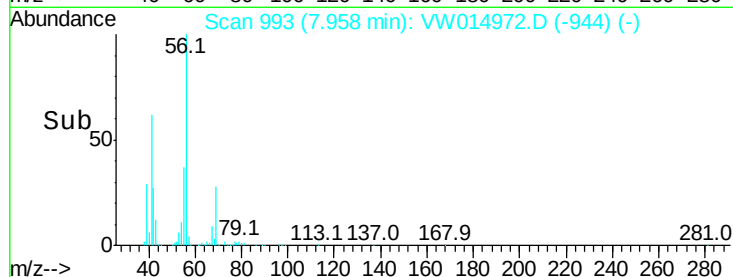
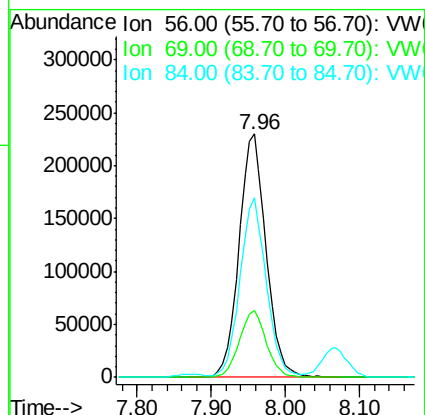
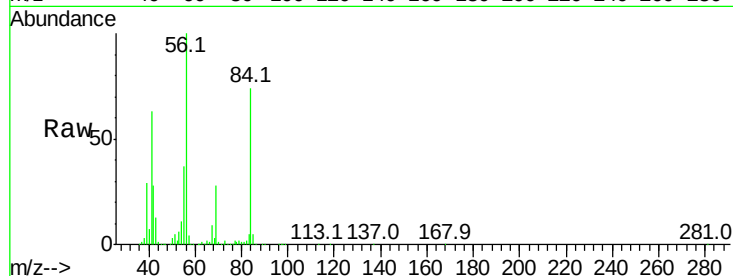
Tgt Ion: 56 Resp: 585240

Ion Ratio Lower Upper

56 100

69 27.5 22.0 33.0

84 72.2 57.8 86.6



#30

1,1,1-Trichloroethane

Concen: 25.930 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

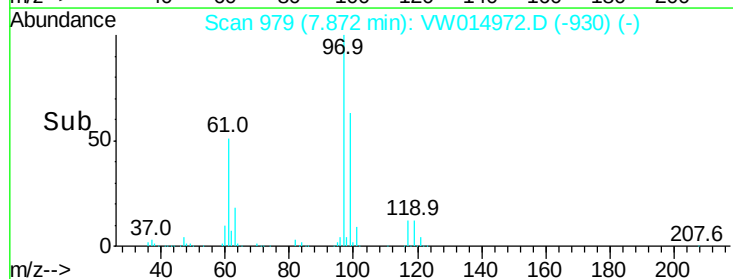
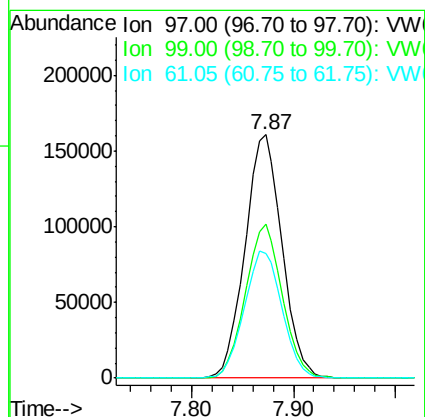
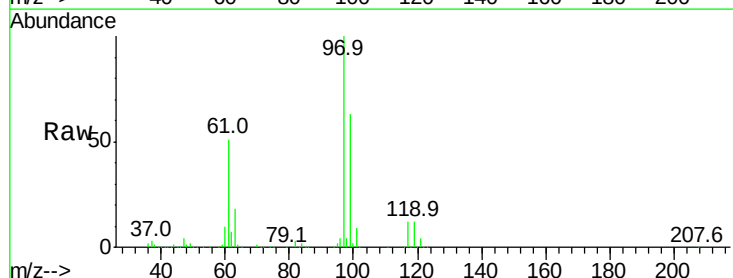
Tgt Ion: 97 Resp: 404705

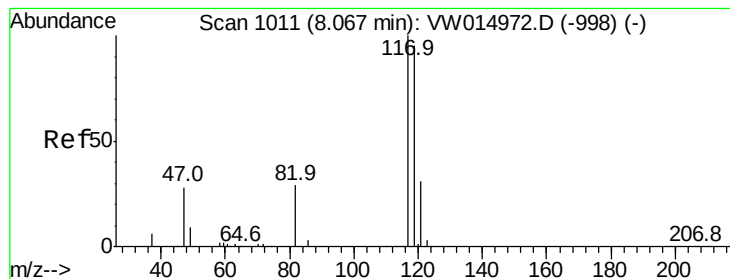
Ion Ratio Lower Upper

97 100

99 63.2 50.6 75.8

61 53.4 42.7 64.1





#31

Carbon tetrachloride

Concen: 26.467 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

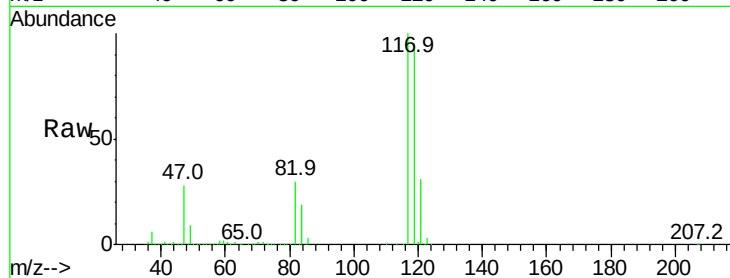
VSTD025303

Tgt Ion:117 Resp: 364319

Ion Ratio Lower Upper

117 100

119 95.7 10.1 15.1#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

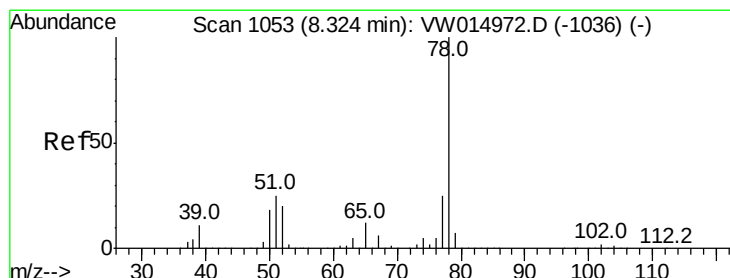
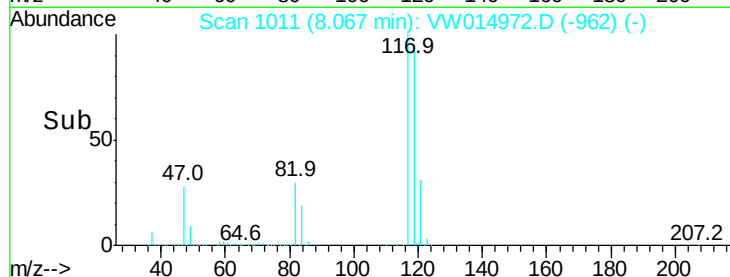
150000

100000

50000

0

Time-->



#33

Benzene

Concen: 28.184 ug/L

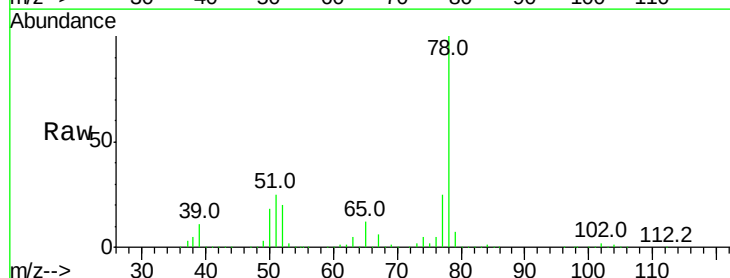
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Tgt Ion: 78 Resp: 1249827



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

600000

500000

400000

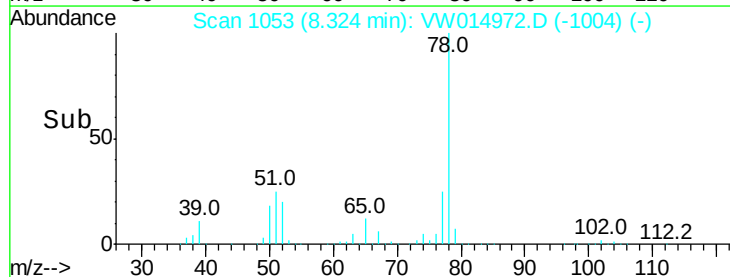
300000

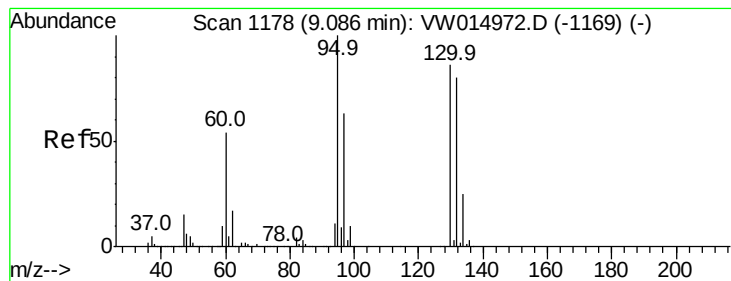
200000

100000

0

Time-->





#34

Trichloroethene

Concen: 25.622 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025303

Tgt Ion: 95 Resp: 289956

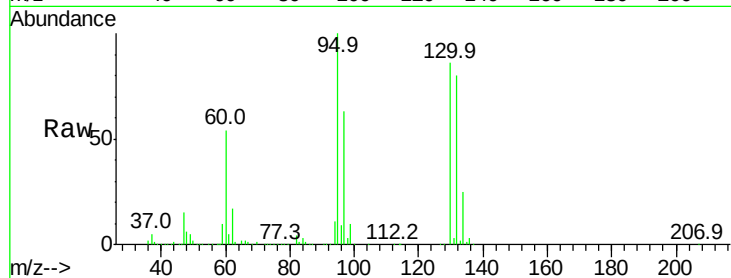
Ion Ratio Lower Upper

95 100

97 63.1 44.2 82.0

132 80.2 56.1 104.3

130 85.9 60.1 111.7

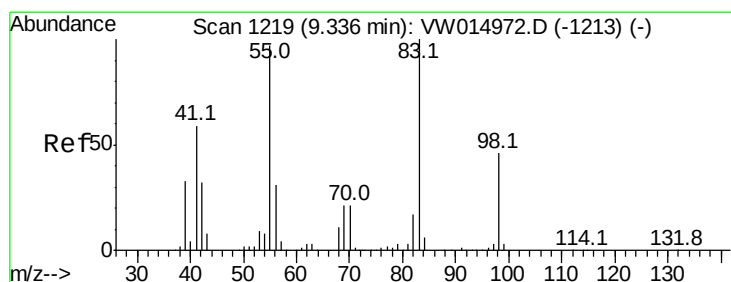
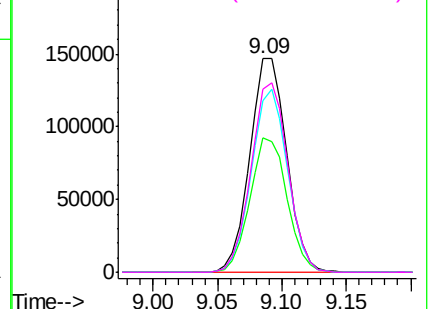
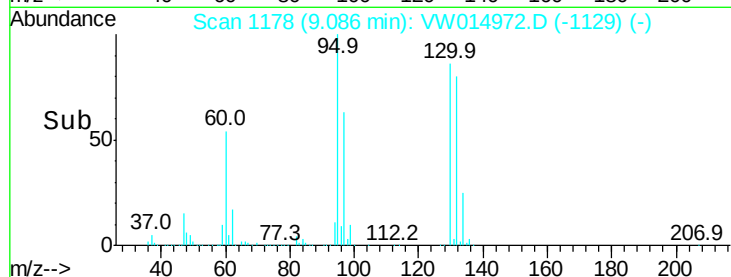


Abundance Ion 95.00 (94.70 to 95.70): VW

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



#35

Methylcyclohexane

Concen: 25.462 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

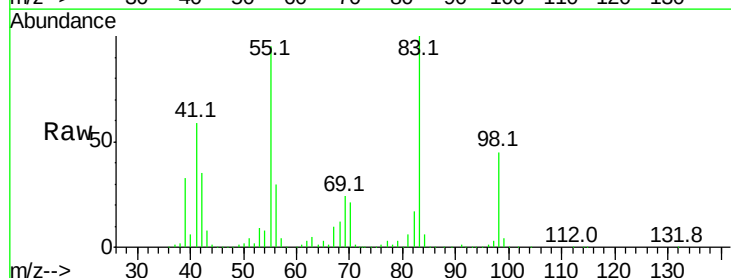
Tgt Ion: 83 Resp: 531068

Ion Ratio Lower Upper

83 100

55 95.4 76.3 114.5

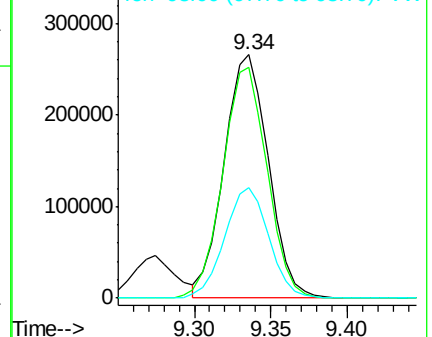
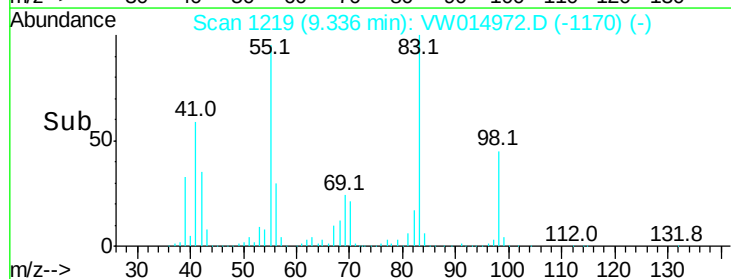
98 45.5 36.4 54.6



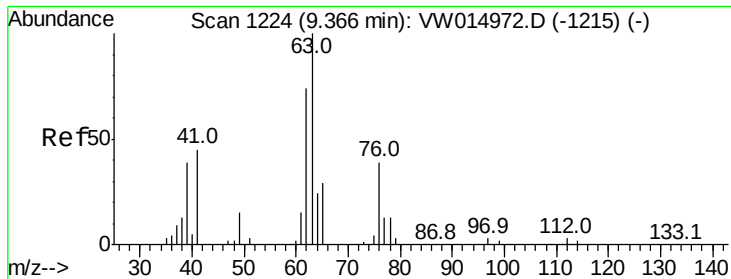
Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW



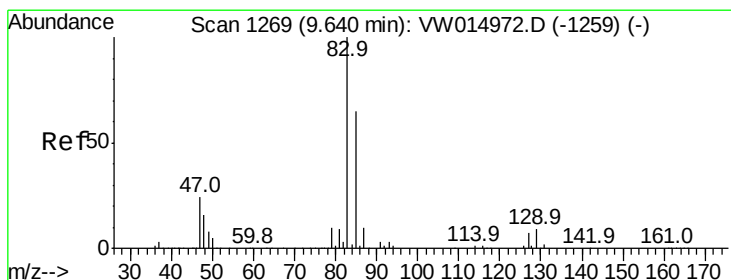
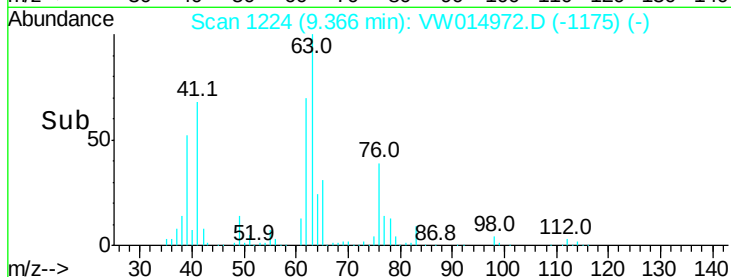
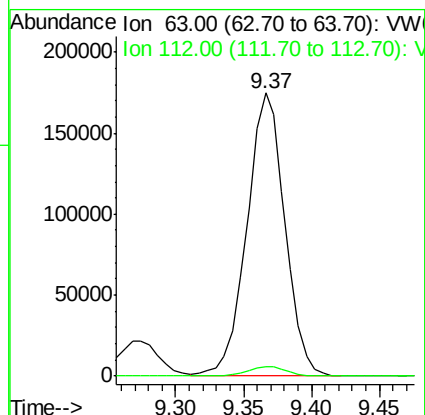
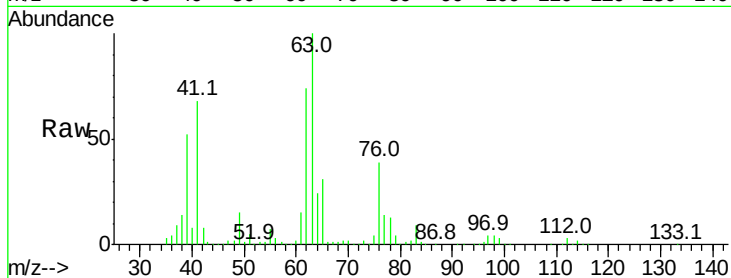




#37  
 1,2-Dichloropropane  
 Concen: 30.538 ug/L  
 RT: 9.37 min Scan# 1224  
 Delta R.T. 0.00 min  
 Lab File: VW014972.D  
 Acq: 13 Feb 2020 10:40

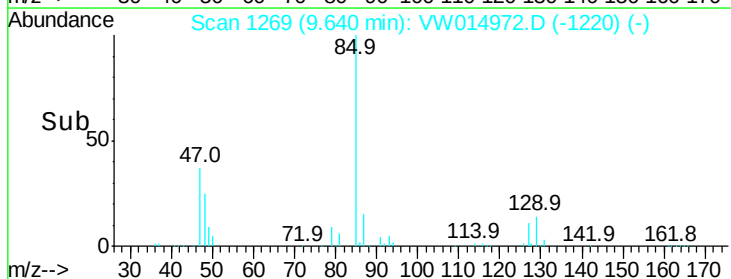
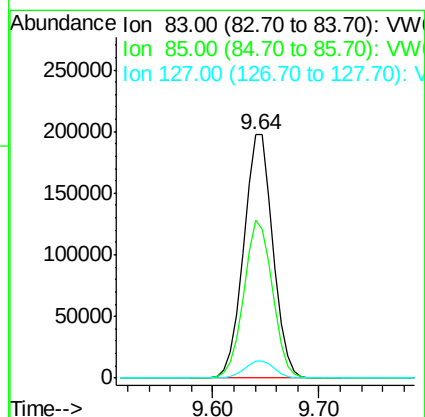
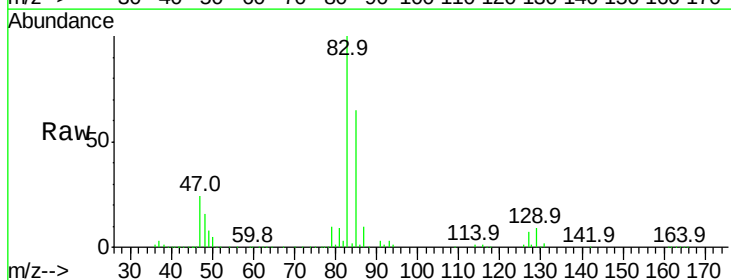
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025303

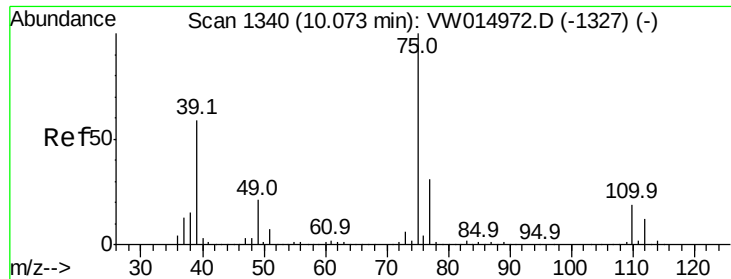
Tgt Ion: 63 Resp: 341210  
 Ion Ratio Lower Upper  
 63 100  
 112 3.3 2.6 4.0



#38  
 Bromodichloromethane  
 Concen: 26.610 ug/L  
 RT: 9.64 min Scan# 1269  
 Delta R.T. 0.00 min  
 Lab File: VW014972.D  
 Acq: 13 Feb 2020 10:40

Tgt Ion: 83 Resp: 380610  
 Ion Ratio Lower Upper  
 83 100  
 85 64.6 45.2 84.0  
 127 6.9 5.5 8.3

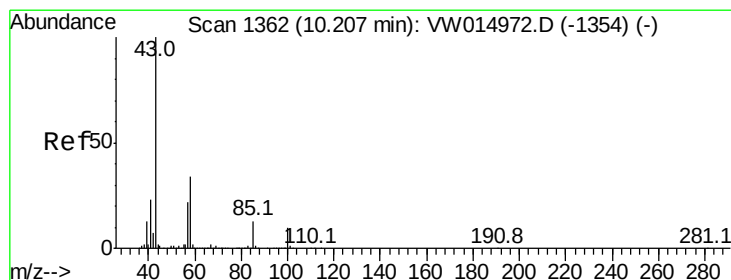
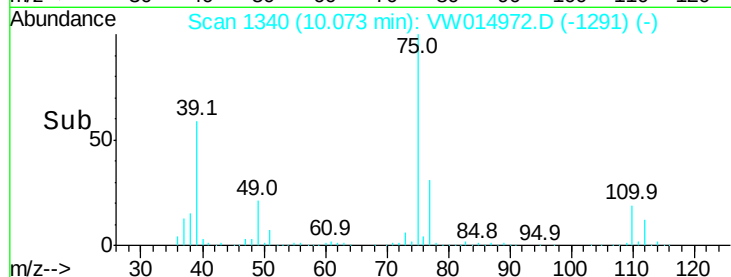
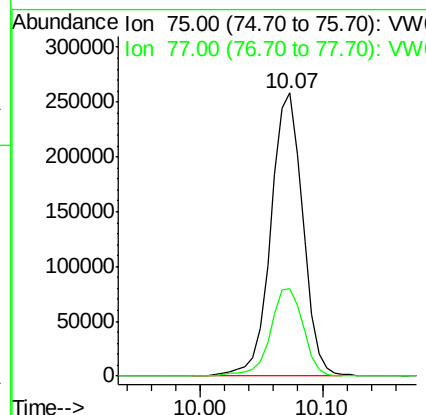
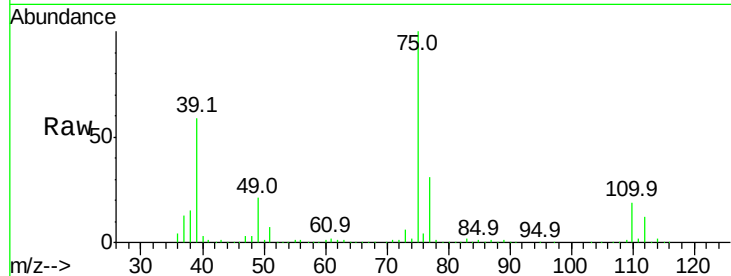




#39  
 cis-1,3-Dichloropropene  
 Concen: 24.841 ug/L  
 RT: 10.07 min Scan# 1340  
 Delta R.T. 0.00 min  
 Lab File: VW014972.D  
 Acq: 13 Feb 2020 10:40

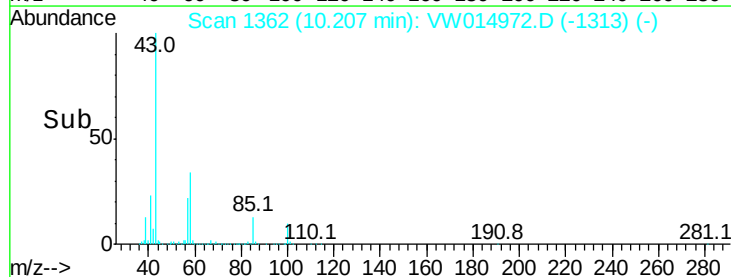
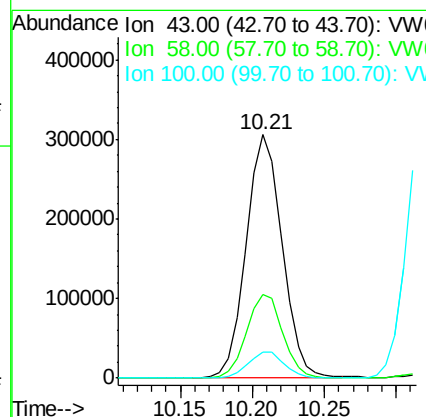
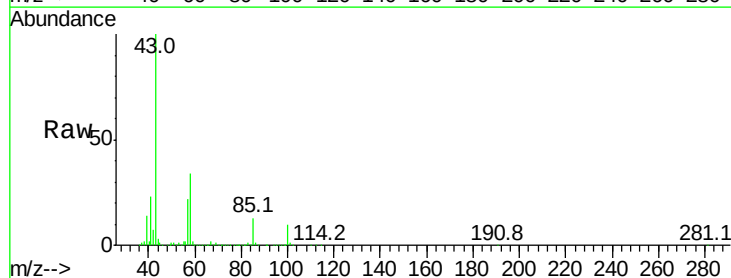
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025303

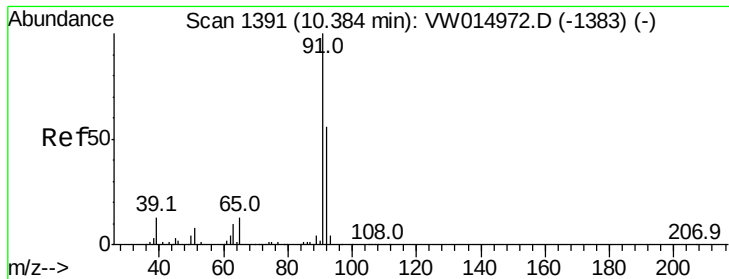
Tgt Ion: 75 Resp: 470151  
 Ion Ratio Lower Upper  
 75 100  
 77 30.9 21.6 40.2



#40  
 4-Methyl-2-pentanone  
 Concen: 43.533 ug/L  
 RT: 10.21 min Scan# 1362  
 Delta R.T. 0.00 min  
 Lab File: VW014972.D  
 Acq: 13 Feb 2020 10:40

Tgt Ion: 43 Resp: 528080  
 Ion Ratio Lower Upper  
 43 100  
 58 34.6 27.7 41.5  
 100 10.8 8.6 13.0





#42

Toluene

Concen: 25.957 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

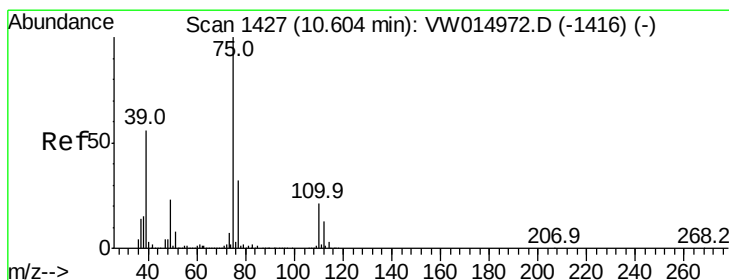
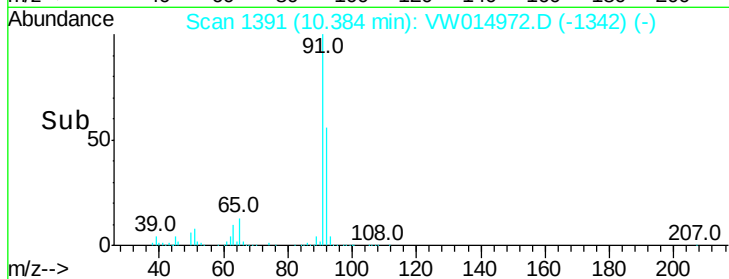
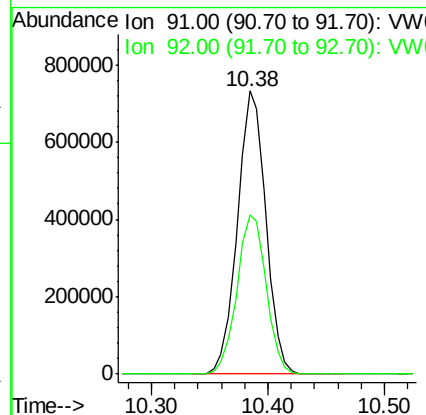
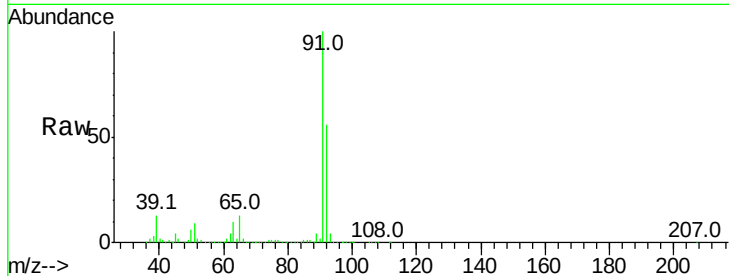
VSTD025303

Tgt Ion: 91 Resp: 1246298

Ion Ratio Lower Upper

91 100

92 56.4 39.5 73.3



#44

trans-1,3-Dichloropropene

Concen: 24.575 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014972.D

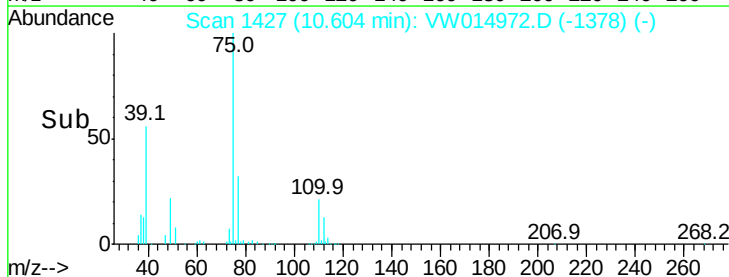
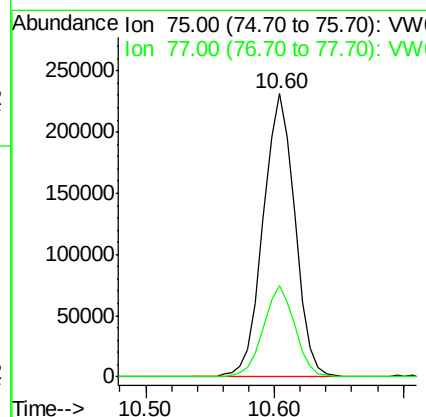
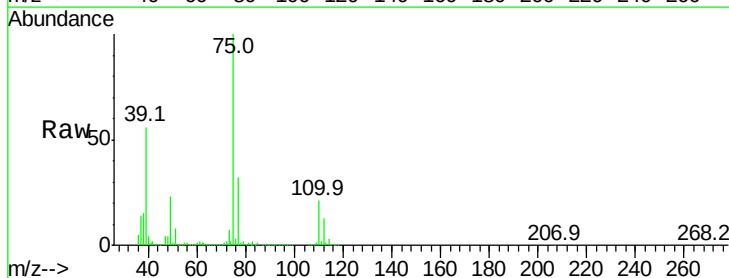
Acq: 13 Feb 2020 10:40

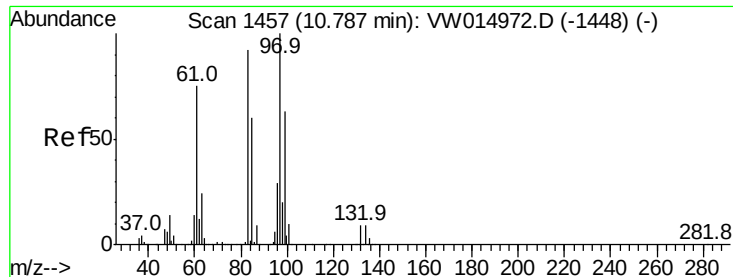
Tgt Ion: 75 Resp: 395688

Ion Ratio Lower Upper

75 100

77 32.4 22.7 42.1





#45

1,1,2-Trichloroethane

Concen: 21.772 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025303

Tgt Ion: 97 Resp: 209531

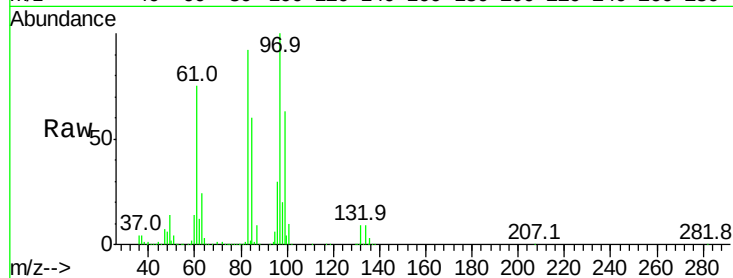
Ion Ratio Lower Upper

97 100

99 63.1 44.2 82.0

83 91.6 64.1 119.1

85 60.1 42.1 78.1

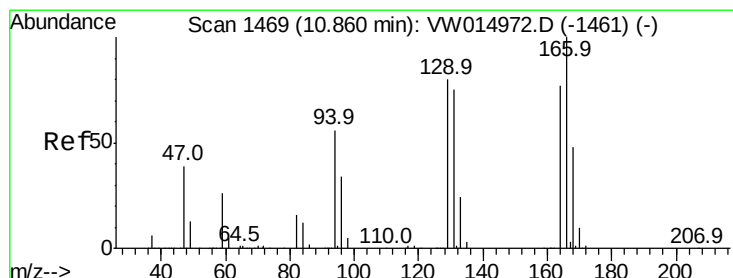
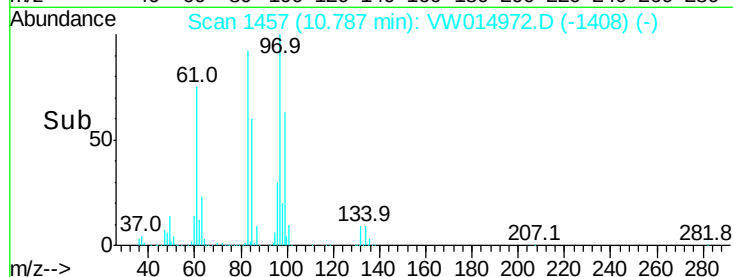
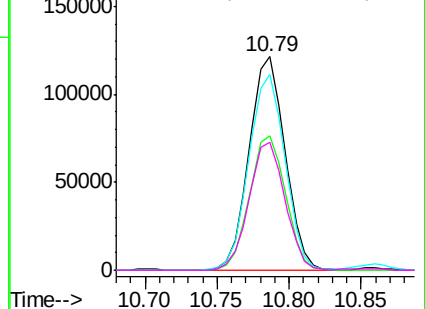


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#46

Tetrachloroethene

Concen: 22.141 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Tgt Ion: 164 Resp: 192737

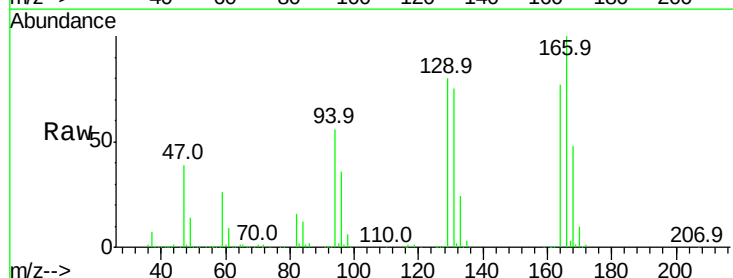
Ion Ratio Lower Upper

164 100

129 103.2 72.2 134.2

131 97.3 68.1 126.5

166 129.4 90.6 168.2

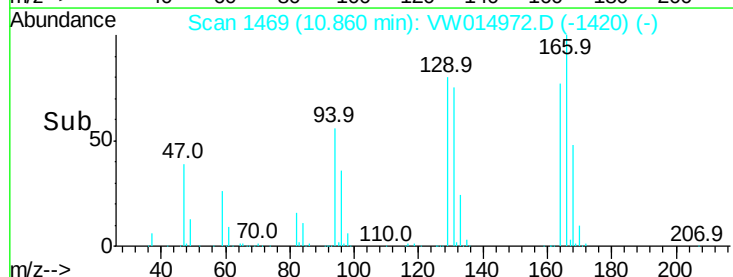
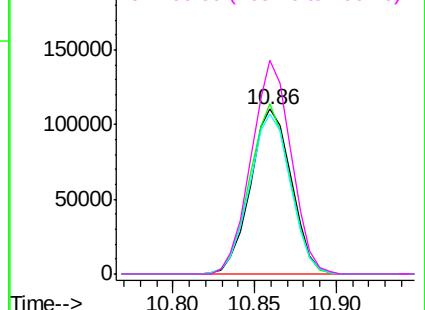


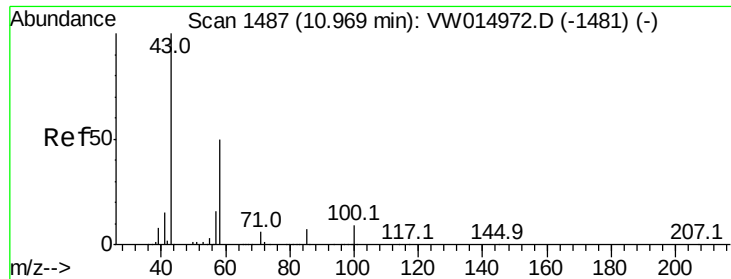
Abundance Ion 164.00 (163.70 to 164.70): V

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

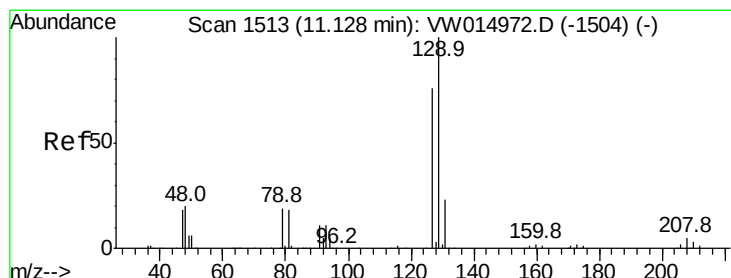
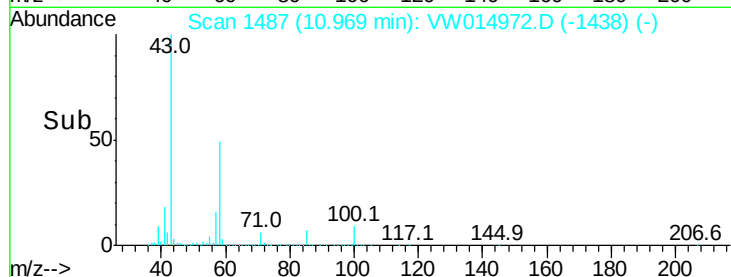
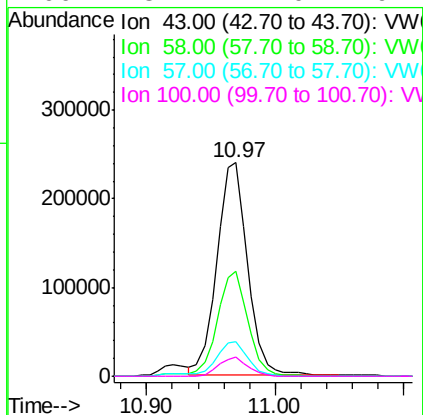
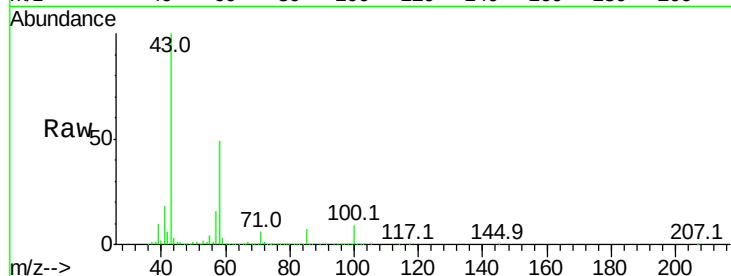




#48  
2-Hexanone  
Concen: 43.209 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW014972.D  
Acq: 13 Feb 2020 10:40

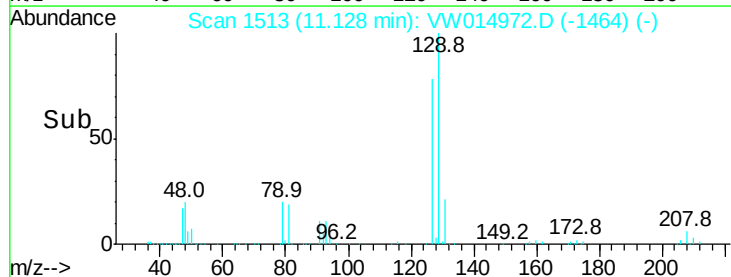
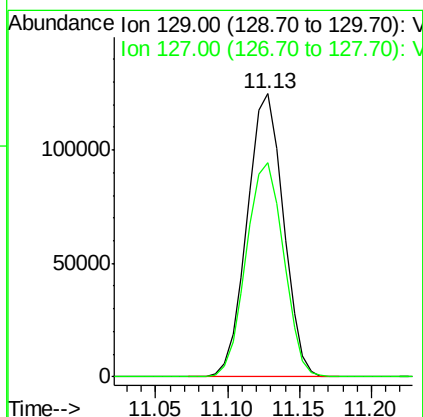
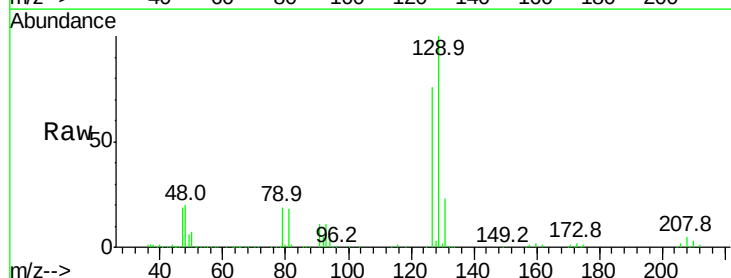
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025303

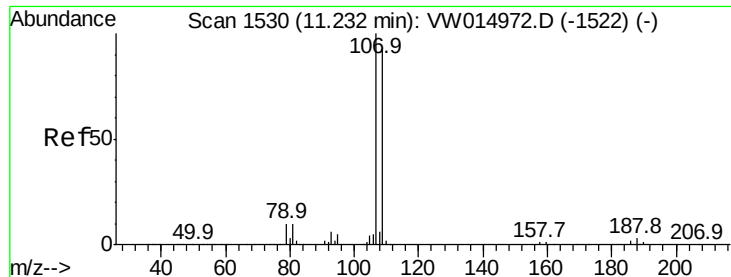
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 402037 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 49.0  | 39.2  | 58.8   |
| 57       | 16.4  | 13.1  | 19.7   |
| 100      | 8.7   | 7.0   | 10.4   |



#49  
Dibromochloromethane  
Concen: 20.912 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW014972.D  
Acq: 13 Feb 2020 10:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 217526 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 75.7  | 53.0  | 98.4   |

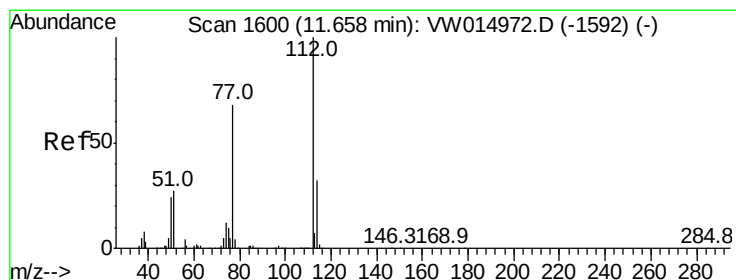
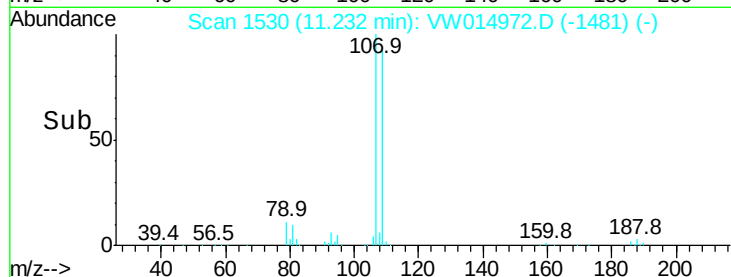
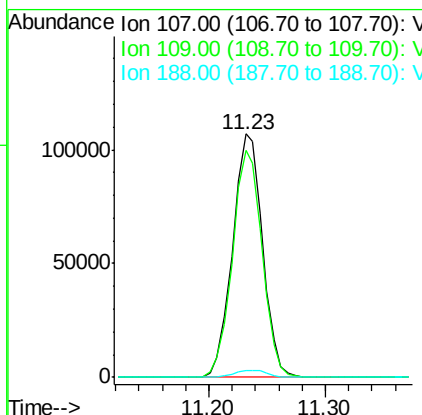
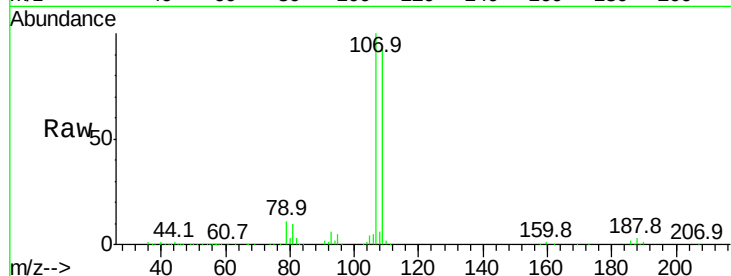




#50  
1,2-Dibromoethane  
Concen: 19.678 ug/L  
RT: 11.23 min Scan# 1530  
Delta R.T. 0.00 min  
Lab File: VW014972.D  
Acq: 13 Feb 2020 10:40

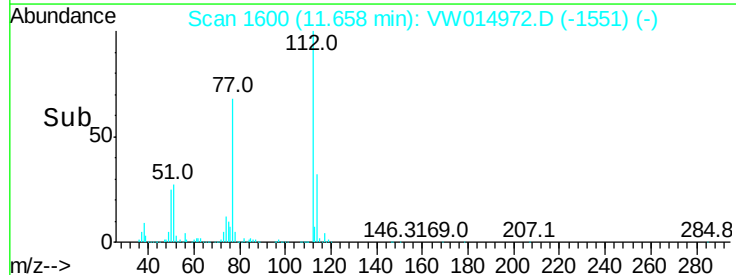
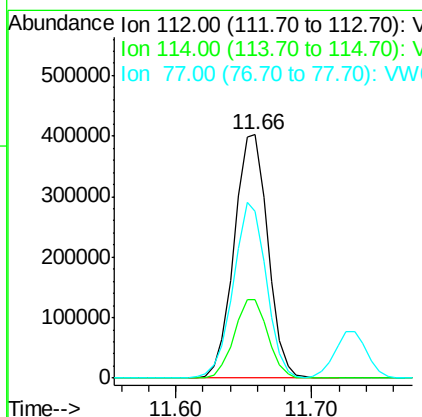
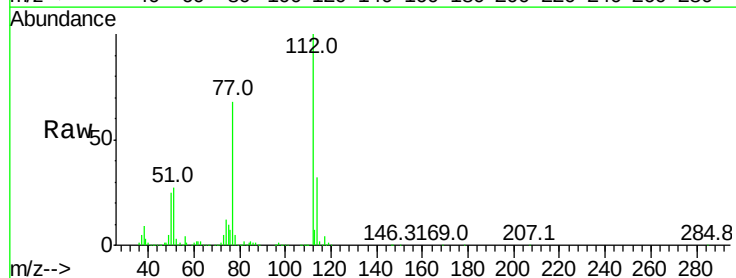
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025303

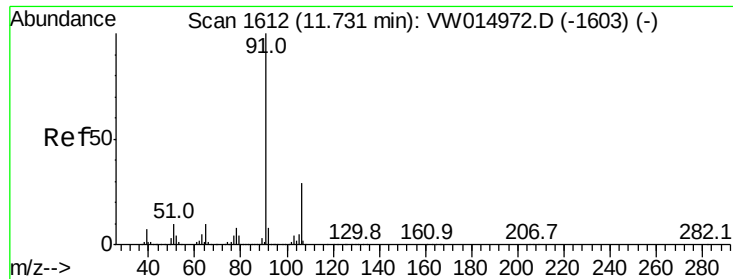
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 93.0  | 65.1  | 120.9 |
| 188     | 3.0   | 2.4   | 3.6   |



#51  
Chlorobenzene  
Concen: 22.839 ug/L  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW014972.D  
Acq: 13 Feb 2020 10:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.3  | 22.6  | 42.0  |
| 77      | 68.3  | 54.6  | 82.0  |





#52

Ethylbenzene

Concen: 25.202 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

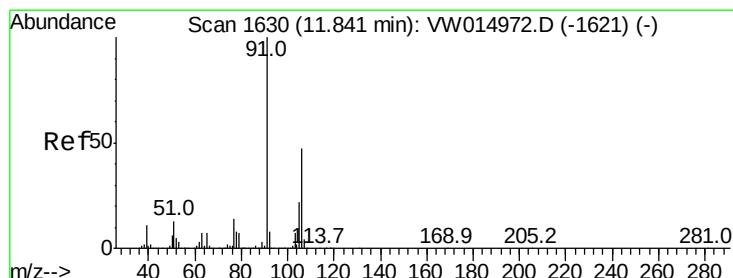
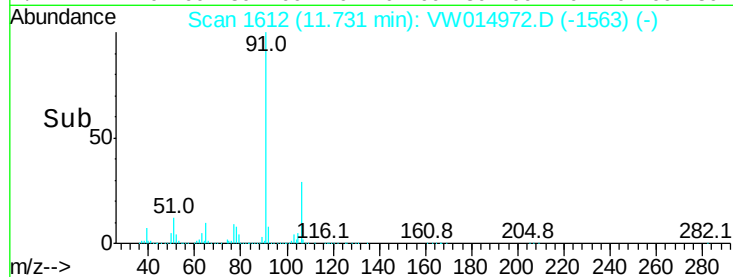
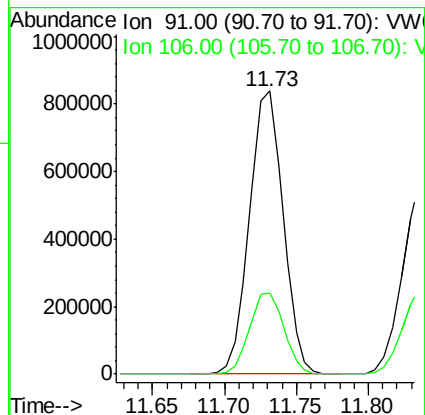
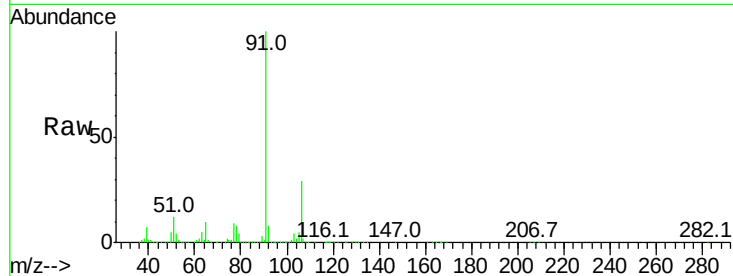
VSTD025303

Tgt Ion: 91 Resp: 1356529

Ion Ratio Lower Upper

91 100

106 28.8 20.2 37.4



#53

m,p-Xylene

Concen: 23.052 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW014972.D

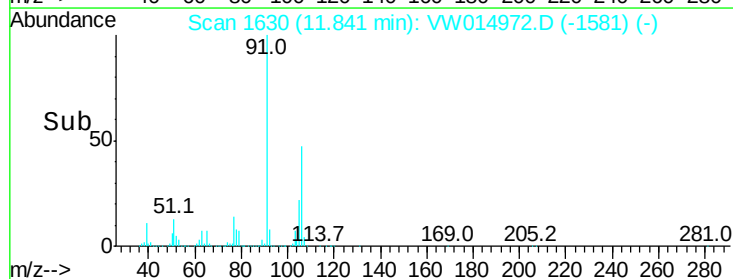
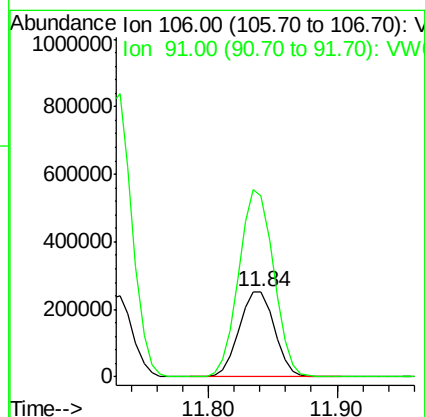
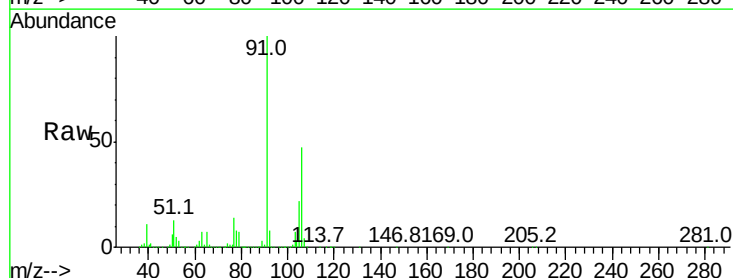
Acq: 13 Feb 2020 10:40

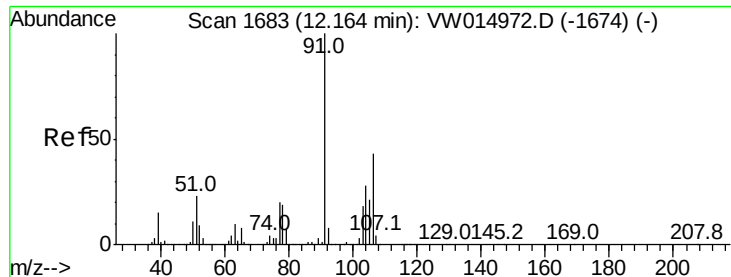
Tgt Ion: 106 Resp: 482115

Ion Ratio Lower Upper

106 100

91 213.2 149.2 277.2

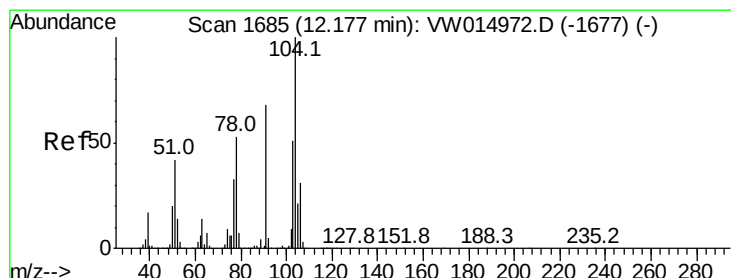
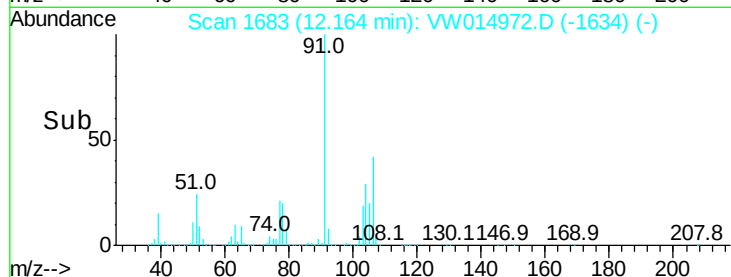
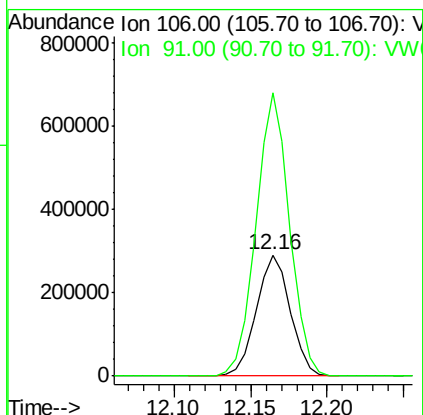
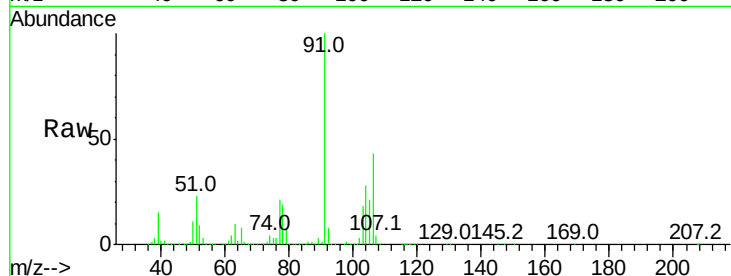




#54  
o-Xylene  
Concen: 22.490 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW014972.D  
Acq: 13 Feb 2020 10:40

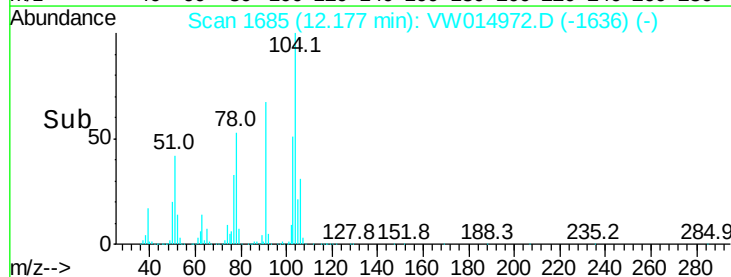
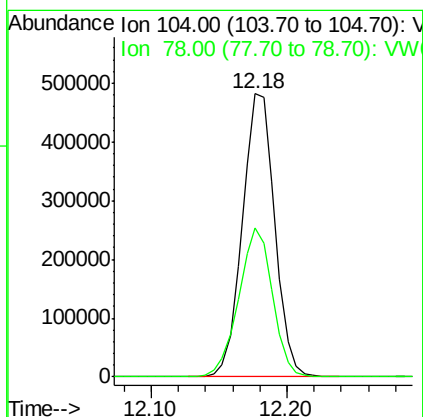
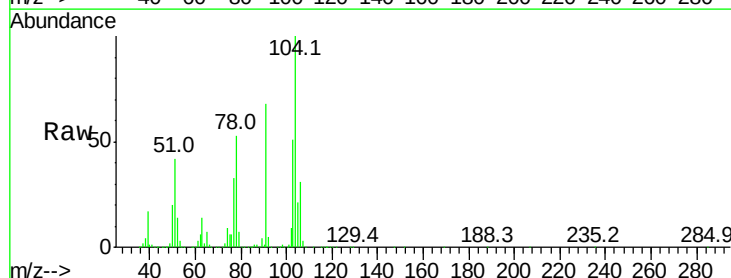
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025303

Tgt Ion:106 Resp: 450643  
Ion Ratio Lower Upper  
106 100  
91 233.9 163.7 304.1

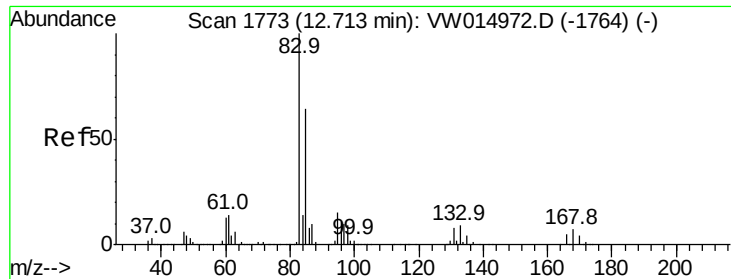


#55  
Styrene  
Concen: 22.863 ug/L  
RT: 12.18 min Scan# 1685  
Delta R.T. 0.00 min  
Lab File: VW014972.D  
Acq: 13 Feb 2020 10:40

Tgt Ion:104 Resp: 801910  
Ion Ratio Lower Upper  
104 100  
78 52.6 36.8 68.4



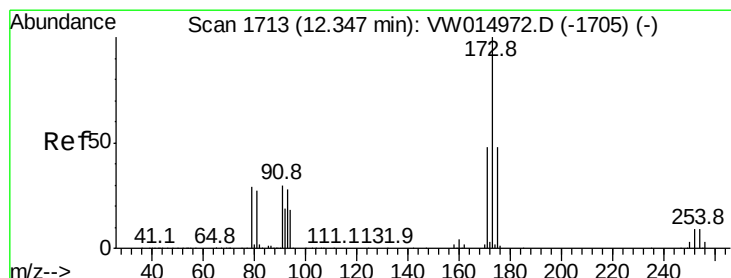
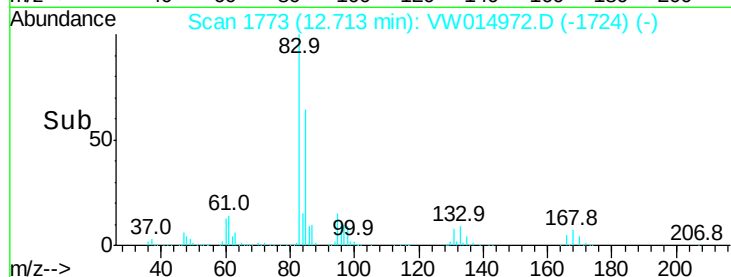
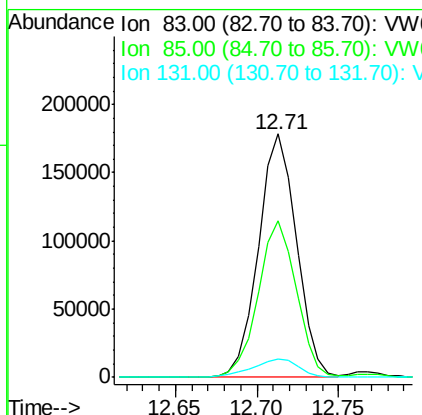
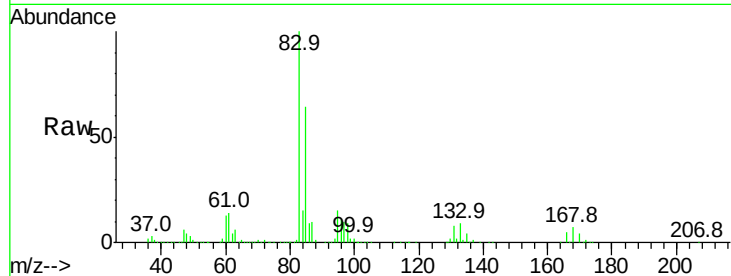




#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 21.374 ug/L  
 RT: 12.71 min Scan# 1773  
 Delta R.T. 0.00 min  
 Lab File: VW014972.D  
 Acq: 13 Feb 2020 10:40

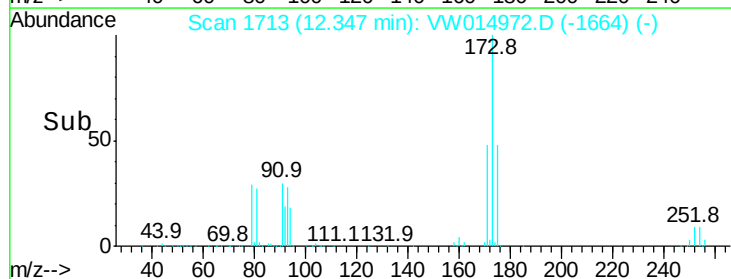
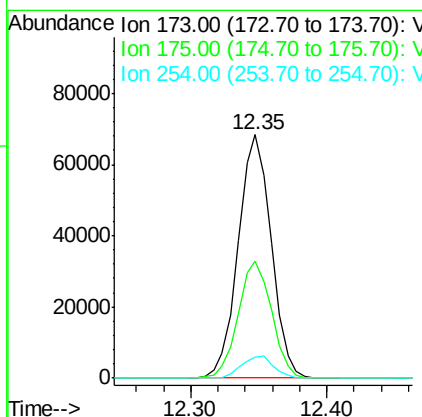
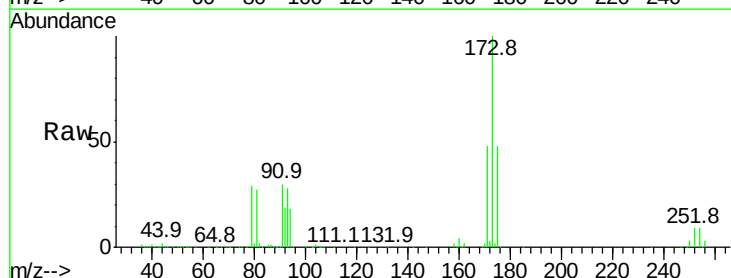
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025303

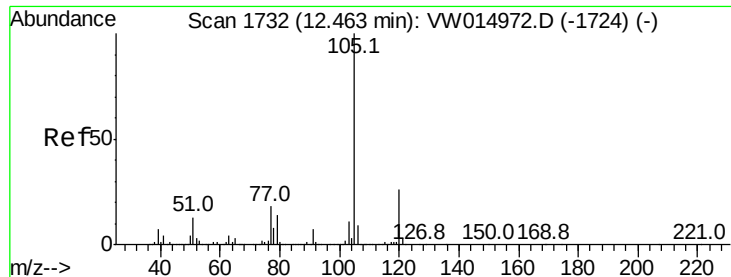
Tgt Ion: 83 Resp: 288393  
 Ion Ratio Lower Upper  
 83 100  
 85 64.2 44.9 83.5  
 131 7.7 6.2 9.2



#59  
 Bromoform  
 Concen: 17.143 ug/L  
 RT: 12.35 min Scan# 1713  
 Delta R.T. 0.00 min  
 Lab File: VW014972.D  
 Acq: 13 Feb 2020 10:40

Tgt Ion: 173 Resp: 115786  
 Ion Ratio Lower Upper  
 173 100  
 175 48.7 39.0 58.4  
 254 8.9 7.1 10.7





#60

Isopropylbenzene

Concen: 24.356 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampled :

VSTD025303

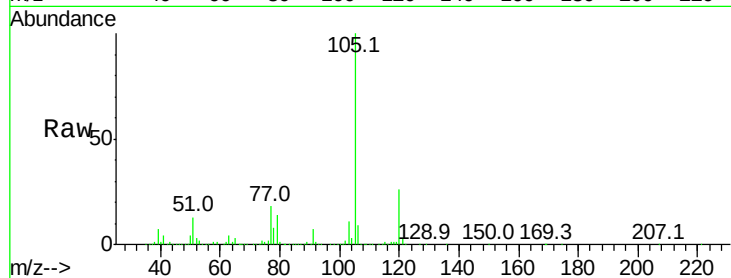
Tgt Ion: 105 Resp: 1239537

Ion Ratio Lower Upper

105 100

120 25.1 20.1 30.1

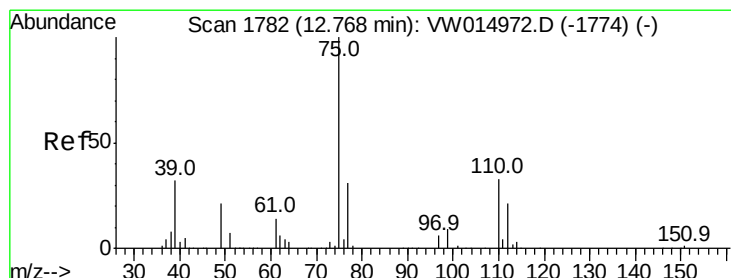
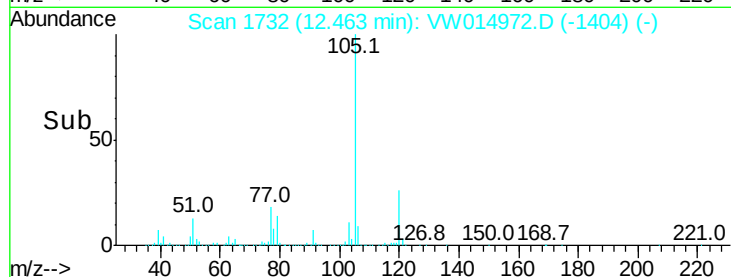
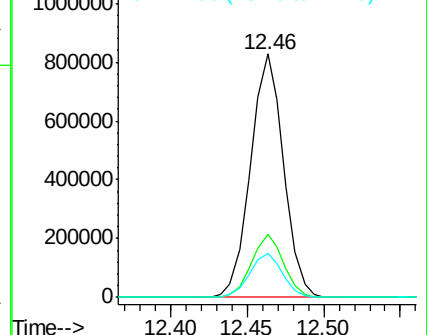
77 18.0 14.4 21.6



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



#61

1,2,3-Trichloropropane

Concen: 22.298 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

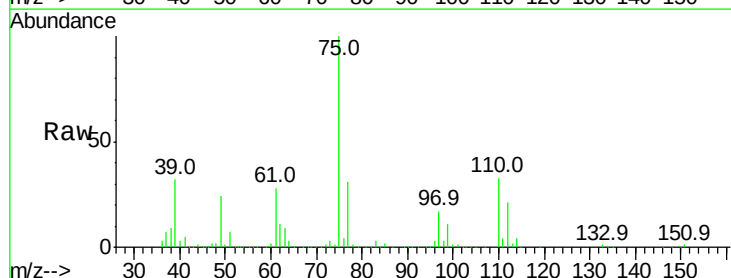
Tgt Ion: 75 Resp: 221485

Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.6

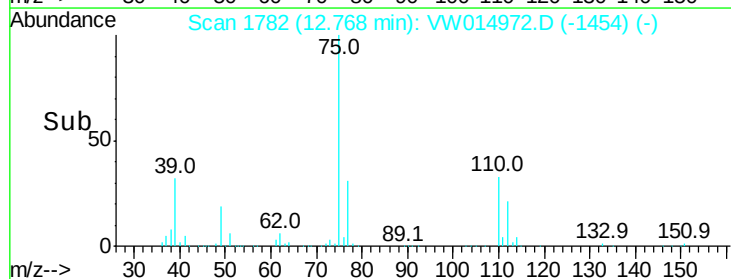
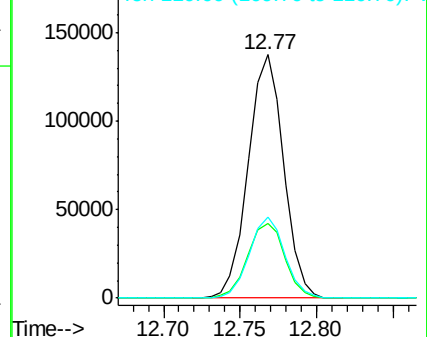
110 33.2 26.6 39.8

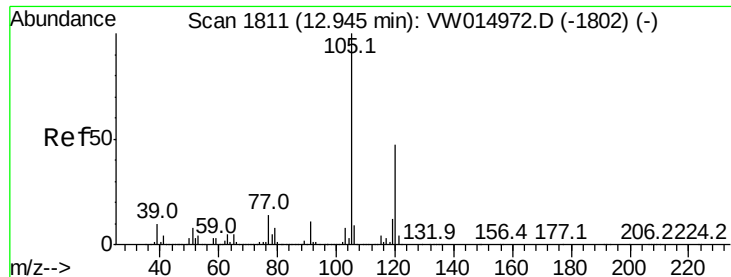


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

Ion 110.00 (109.70 to 110.70): V

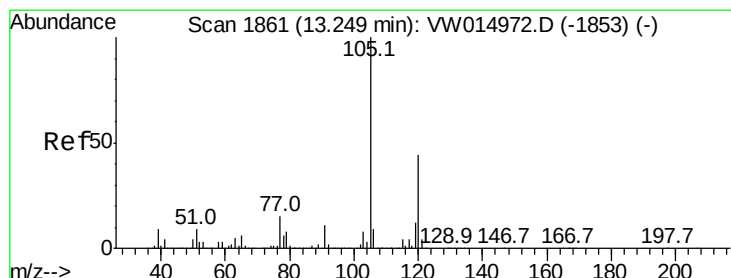
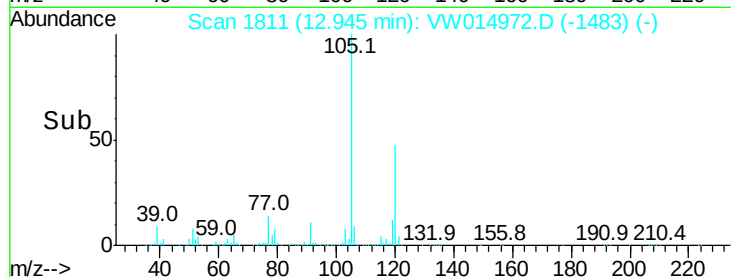
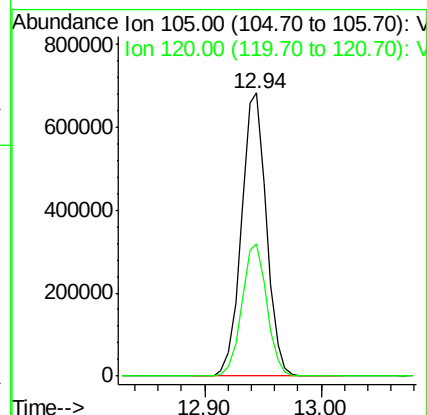
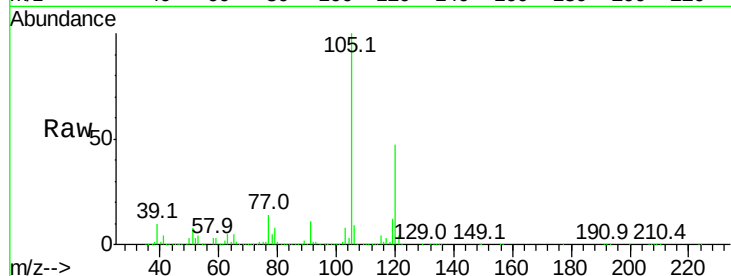




#62  
 1,3,5-Trimethylbenzene  
 Concen: 24.202 ug/L  
 RT: 12.94 min Scan# 1811  
 Delta R.T. 0.00 min  
 Lab File: VW014972.D  
 Acq: 13 Feb 2020 10:40

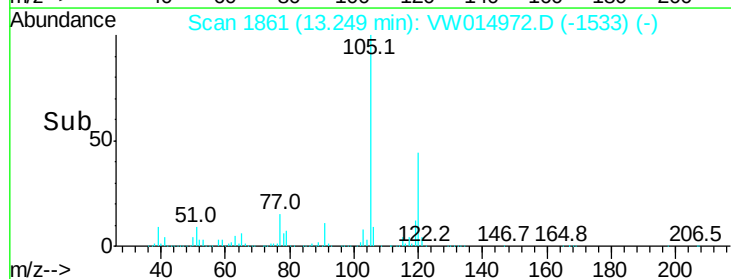
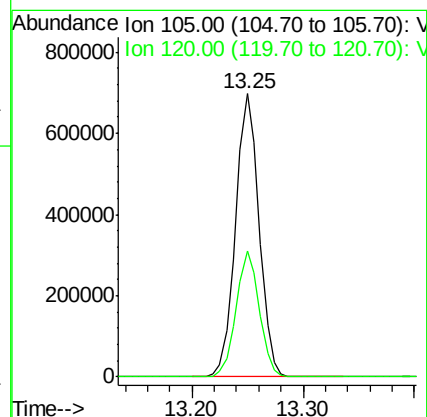
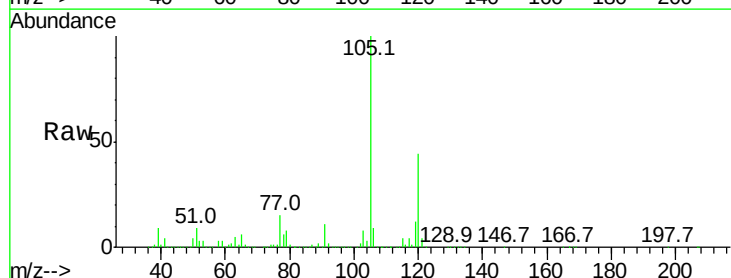
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025303

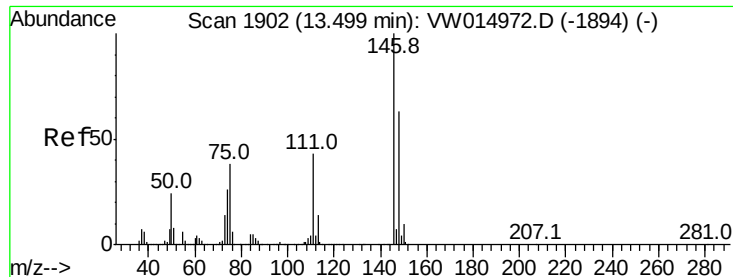
Tgt Ion:105 Resp: 1019503  
 Ion Ratio Lower Upper  
 105 100  
 120 46.7 37.4 56.0



#63  
 1,2,4-Trimethylbenzene  
 Concen: 24.414 ug/L  
 RT: 13.25 min Scan# 1861  
 Delta R.T. 0.00 min  
 Lab File: VW014972.D  
 Acq: 13 Feb 2020 10:40

Tgt Ion:105 Resp: 1017561  
 Ion Ratio Lower Upper  
 105 100  
 120 43.7 35.0 52.4

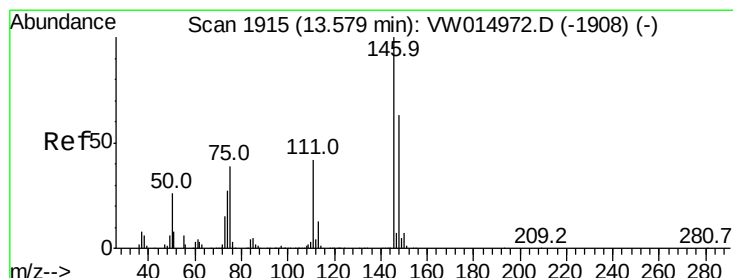
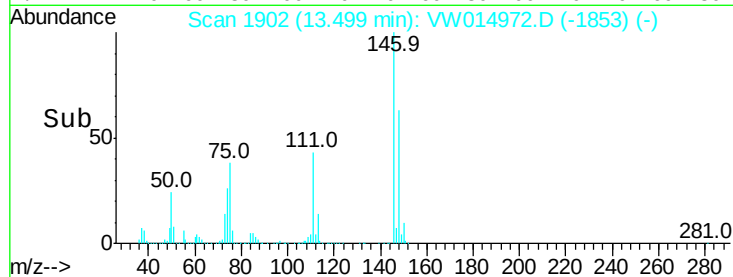
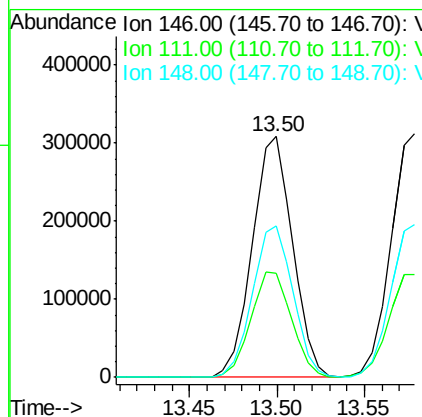
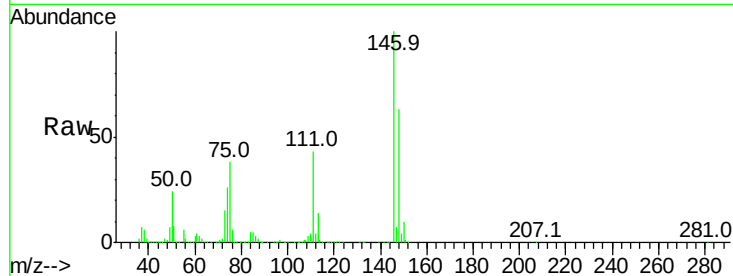




#64  
 1,3-Dichlorobenzene  
 Concen: 21.868 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW014972.D  
 Acq: 13 Feb 2020 10:40

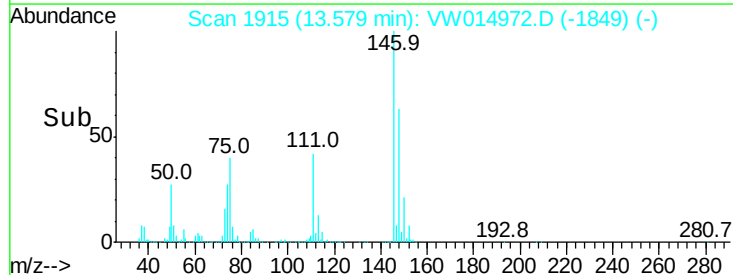
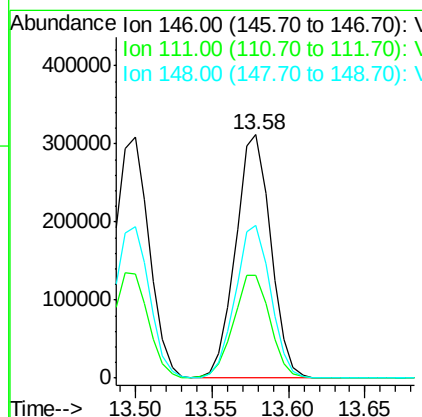
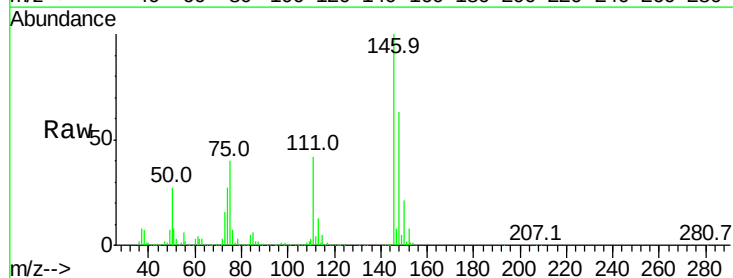
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025303

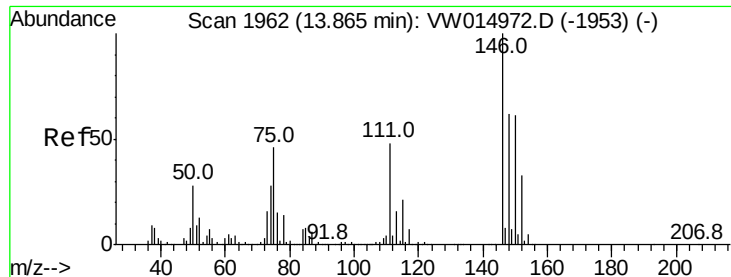
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.1  | 30.2  | 56.0  |
| 148     | 63.2  | 44.2  | 82.2  |



#65  
 1,4-Dichlorobenzene  
 Concen: 21.981 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW014972.D  
 Acq: 13 Feb 2020 10:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.2  | 29.5  | 54.9  |
| 148     | 62.5  | 43.8  | 81.3  |





#67

1,2-Dichlorobenzene

Concen: 22.112 ug/L

RT: 13.87 min Scan# 1962

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025303

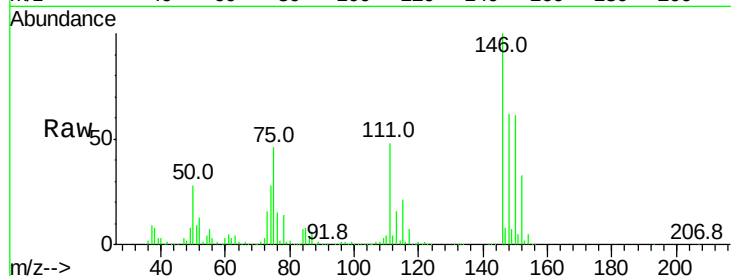
Tgt Ion:146 Resp: 462016

Ion Ratio Lower Upper

146 100

111 47.5 38.0 57.0

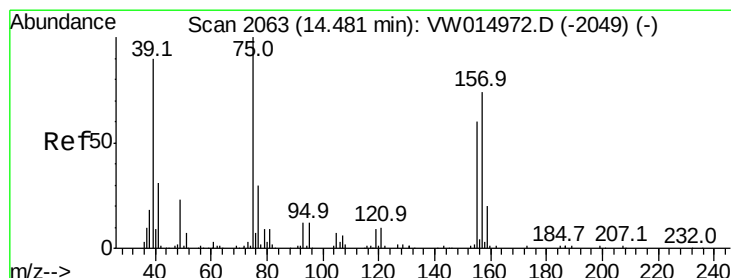
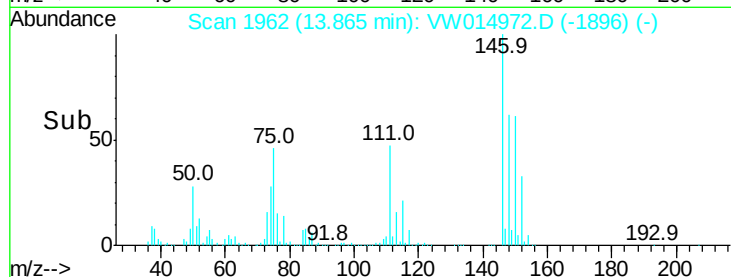
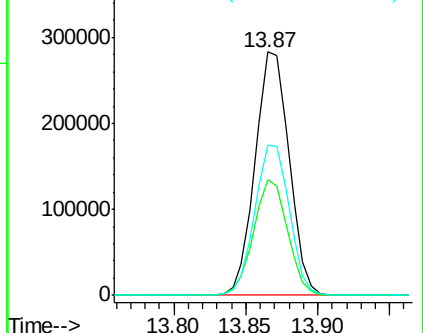
148 61.9 49.5 74.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2-Dibromo-3-chloropropane

Concen: 19.495 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

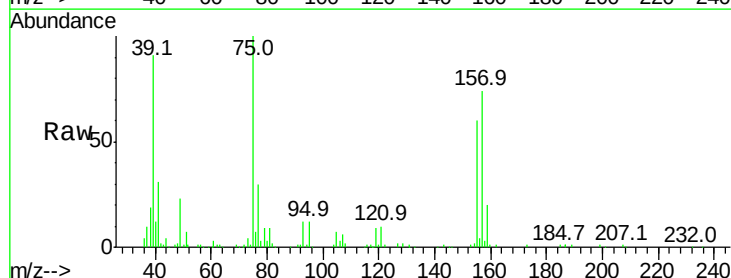
Tgt Ion: 75 Resp: 48870

Ion Ratio Lower Upper

75 100

155 60.0 48.0 72.0

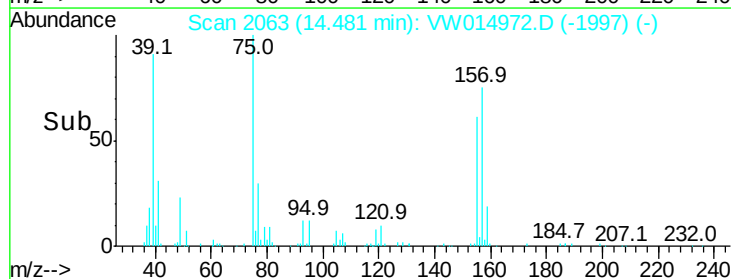
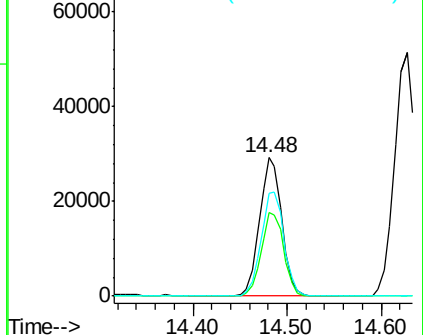
157 74.2 59.4 89.0

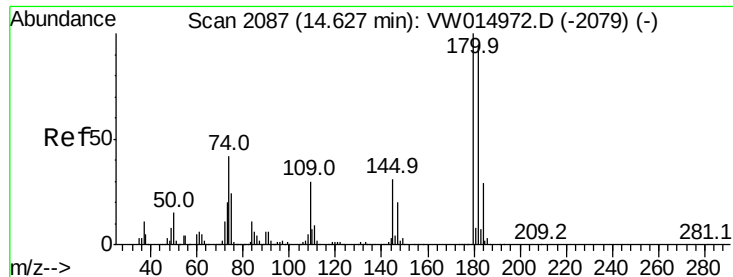


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

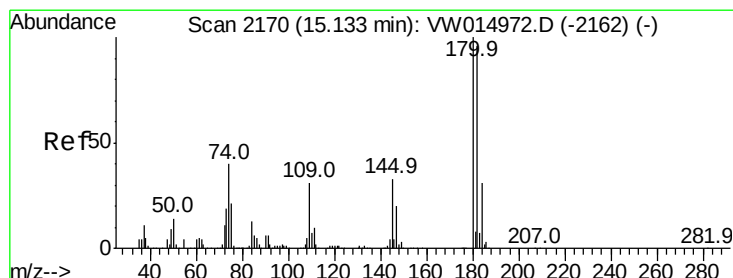
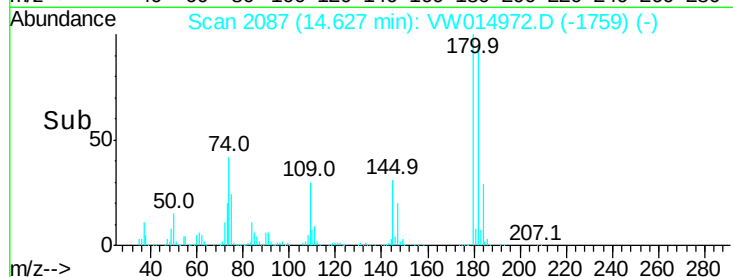
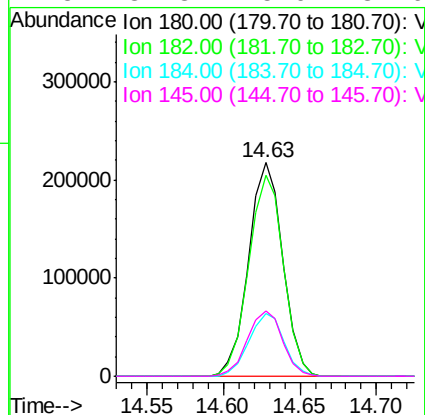
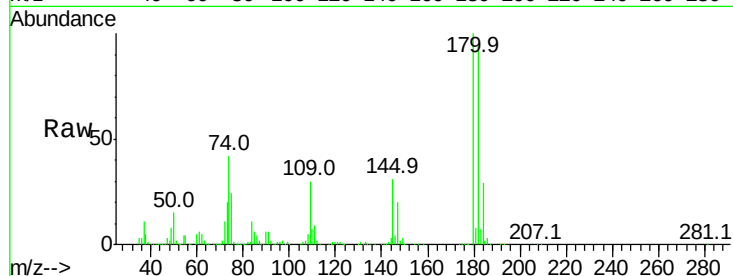




#69  
 1,3,5-Trichlorobenzene  
 Concen: 21.807 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. 0.00 min  
 Lab File: VW014972.D  
 Acq: 13 Feb 2020 10:40

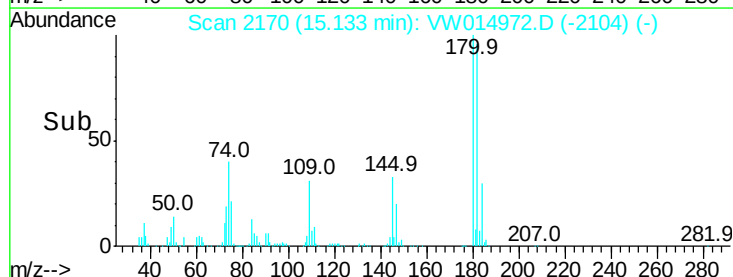
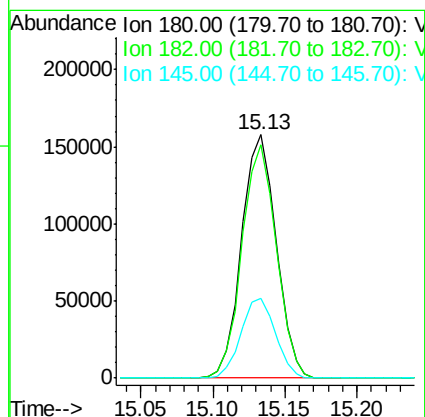
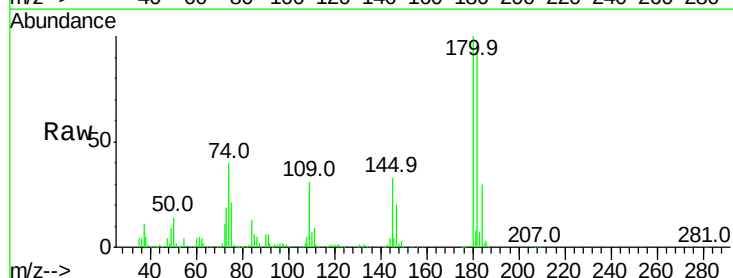
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025303

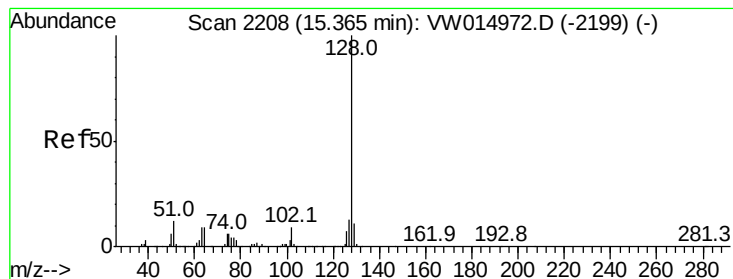
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 338222 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.6  | 76.5  | 114.7  |
| 184      | 30.2  | 24.2  | 36.2   |
| 145      | 31.3  | 25.0  | 37.6   |



#70  
 1,2,4-trichlorobenzene  
 Concen: 18.625 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW014972.D  
 Acq: 13 Feb 2020 10:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 263219 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.3  | 76.2  | 114.4  |
| 145      | 32.8  | 26.2  | 39.4   |





#71

Naphthalene

Concen: 6.965 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025303

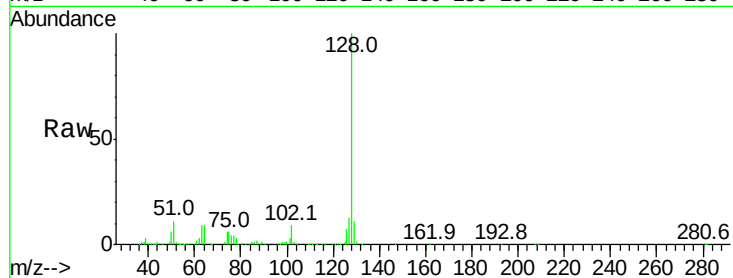
Tgt Ion:128 Resp: 274272

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

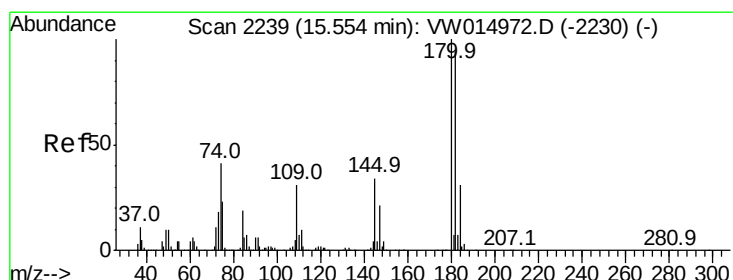
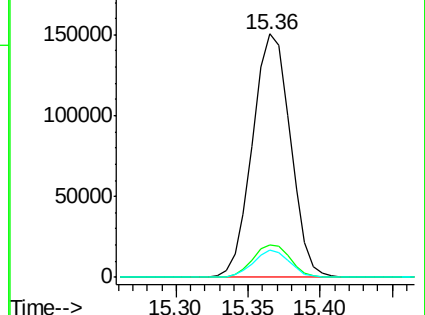
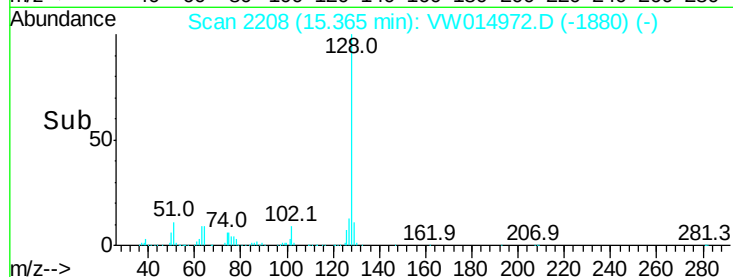
129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 19.250 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014972.D

Acq: 13 Feb 2020 10:40

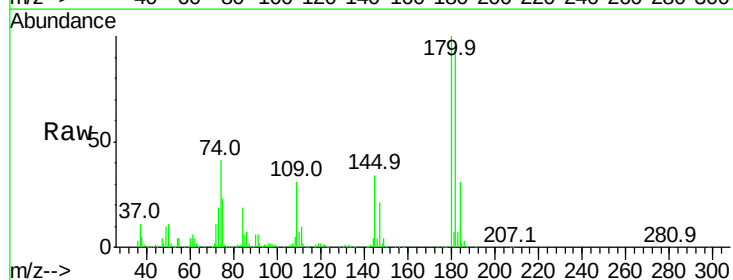
Tgt Ion:180 Resp: 253787

Ion Ratio Lower Upper

180 100

182 94.0 75.2 112.8

145 33.8 27.0 40.6



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

