

Data File : VW013959.D  
Acq On : 11 Nov 2019 12:38  
Operator : SY/VA  
Sample : VSTD100  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10004

Quant Time: Nov 11 13:05:21 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Nov 11 12:14:45 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 299956   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 272582   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 153269   | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 510673  | 109.42 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 405934  | 108.86 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.02  | 63  | 1002455 | 105.44 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.07  | 46  | 192402  | 114.56 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.64  | 84  | 866155  | 91.65  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.30  | 65  | 377902  | 74.29  | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 1896619 | 103.87 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 525990  | 95.16  | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 1806164 | 104.27 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.57 | 79  | 218488  | 86.57  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.92 | 63  | 168297  | 134.03 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 330924  | 67.68  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 555917  | 91.65  | ug/L | 0.00 |

Target Compounds

|                                |       |     |         |         |      | Qvalue |
|--------------------------------|-------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 372888  | 115.658 | ug/L | 99     |
| 3) Chloromethane               | 2.21  | 50  | 353435  | 95.587  | ug/L | 98     |
| 5) Vinyl chloride              | 2.37  | 62  | 507512  | 96.100  | ug/L | 96     |
| 6) Bromomethane                | 2.78  | 94  | 299700  | 90.219  | ug/L | 99     |
| 8) Chloroethane                | 2.92  | 64  | 300978  | 100.390 | ug/L | 98     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 374258  | 139.117 | ug/L | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 506917  | 98.183  | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 515705  | 99.621  | ug/L | 90     |
| 13) Acetone                    | 4.12  | 43  | 151348  | 92.527  | ug/L | 100    |
| 14) Carbon disulfide           | 4.38  | 76  | 1517411 | 102.559 | ug/L | 100    |
| 15) Methyl Acetate             | 4.67  | 43  | 159300  | 56.242  | ug/L | 99     |
| 16) Methylene chloride         | 4.92  | 84  | 445928  | 79.510  | ug/L | 96     |
| 17) Methyl tert-butyl Ether    | 5.42  | 73  | 511531  | 78.112  | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 519693  | 96.328  | ug/L | 97     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 859480  | 93.830  | ug/L | 100    |
| 21) 2-Butanone                 | 7.16  | 43  | 224073  | 99.799  | ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 7.16  | 96  | 531052  | 93.602  | ug/L | 97     |
| 23) Bromochloromethane         | 7.51  | 128 | 209739  | 78.621  | ug/L | 96     |
| 25) Chloroform                 | 7.67  | 83  | 808679  | 87.810  | ug/L | 100    |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 436924  | 71.732  | ug/L | 100    |
| 30) Cyclohexane                | 7.95  | 56  | 922155  | 112.108 | ug/L | 99     |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 688194  | 103.101 | ug/L | 99     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 685802  | 105.066 | ug/L | 100    |
| 34) Benzene                    | 8.32  | 78  | 1956587 | 98.870  | ug/L | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 533730  | 102.314 | ug/L | 100    |
| 36) Methylcyclohexane          | 9.34  | 83  | 992291  | 108.371 | ug/L | 99     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 450935  | 92.838  | ug/L | 100    |
| 41) Bromodichloromethane       | 9.64  | 83  | 553177  | 90.595  | ug/L | 99     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 715064  | 93.415  | ug/L | 99     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 470194  | 125.872 | ug/L | 100    |

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ClientSampleId :  
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Nov 11 12:14:45 2019  
Response via : Initial Calibration

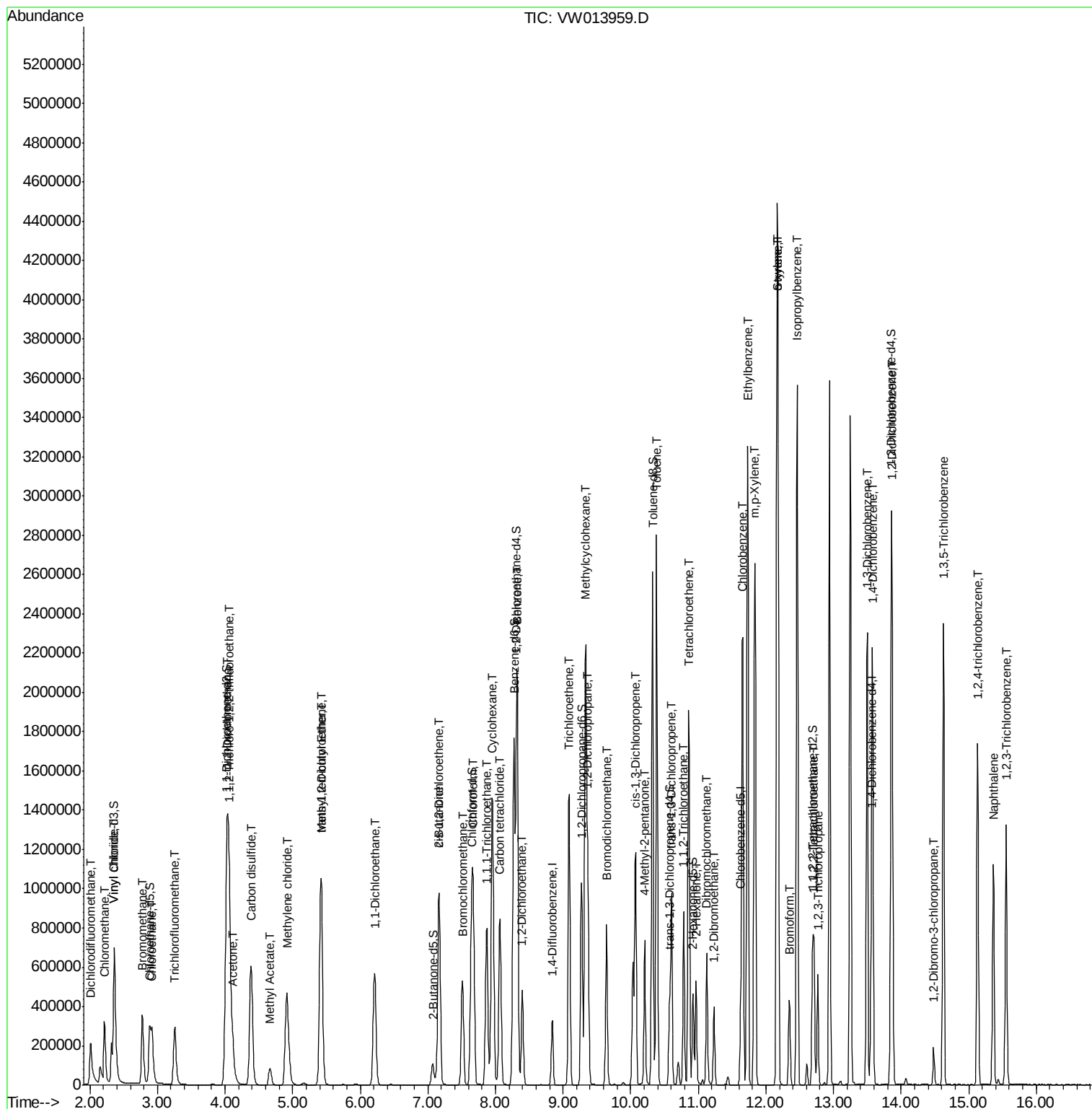
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 44) Toluene                    | 10.38 | 91   | 2145013  | 100.870 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 535842   | 84.717  | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 293124   | 75.575  | ug/L  | 98       |
| 47) Tetrachloroethene          | 10.86 | 164  | 483287   | 100.627 | ug/L  | 99       |
| 49) 2-Hexanone                 | 10.97 | 43   | 336178   | 122.504 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 373460   | 82.947  | ug/L  | 97       |
| 51) 1,2-Dibromoethane          | 11.23 | 107  | 279342   | 72.855  | ug/L  | 99       |
| 52) Chlorobenzene              | 11.66 | 112  | 1307010  | 95.304  | ug/L  | 98       |
| 53) Ethylbenzene               | 11.73 | 91   | 2380023  | 100.544 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 912109   | 99.986  | ug/L  | 98       |
| 55) o-xylene                   | 12.16 | 106  | 856500   | 99.329  | ug/L  | 99       |
| 56) Styrene                    | 12.18 | 104  | 1433166  | 96.315  | ug/L  | 98       |
| 57) Isopropylbenzene           | 12.46 | 105  | 2394830  | 102.997 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 325266   | 66.590  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 231348   | 63.082  | ug/L  | 100      |
| 62) Bromoform                  | 12.35 | 173  | 219937   | 78.925  | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 1024453  | 96.519  | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 986956   | 92.760  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 870917   | 90.745  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 48513    | 63.101  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 793761   | 99.291  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 611207   | 94.438  | ug/L  | 99       |
| 69) Naphthalene                | 15.36 | 128  | 988162   | 80.478  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 517007   | 86.688  | ug/L  | 99       |

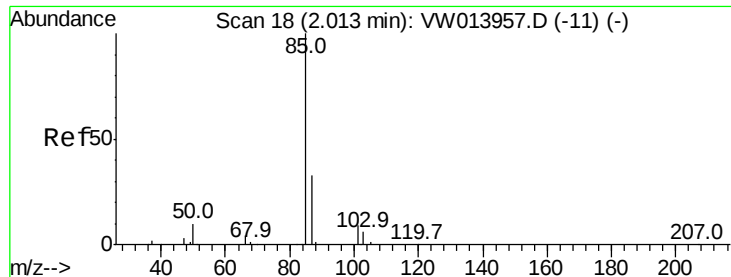
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#2

Dichlorodifluoromethane

Concen: 115.658 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

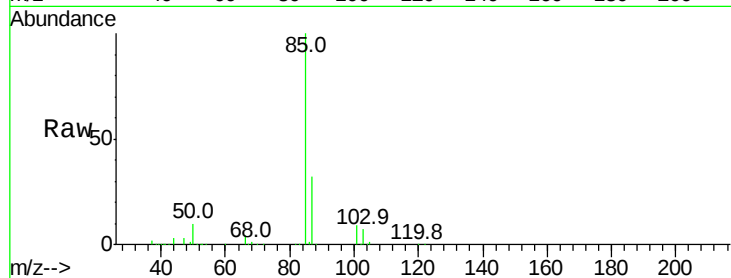
VSTD10004

Tgt Ion: 85 Resp: 372888

Ion Ratio Lower Upper

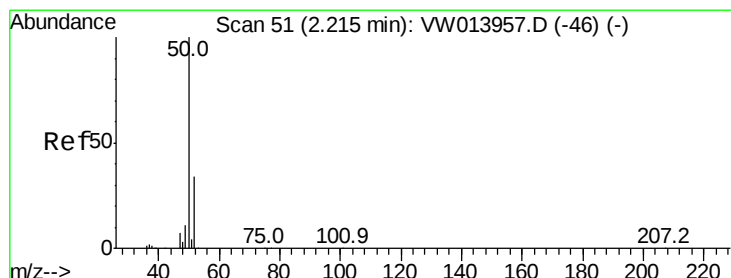
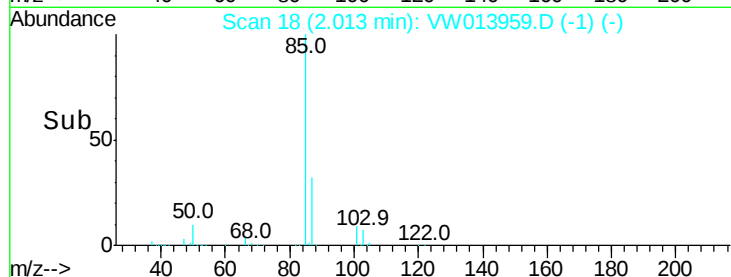
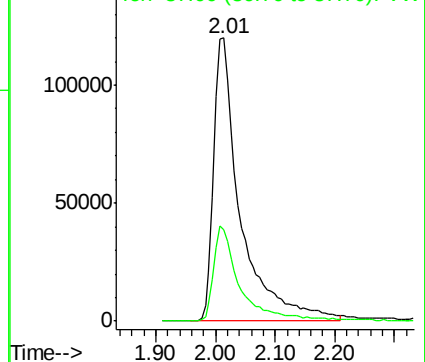
85 100

87 31.0 22.1 41.1



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 95.587 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW013959.D

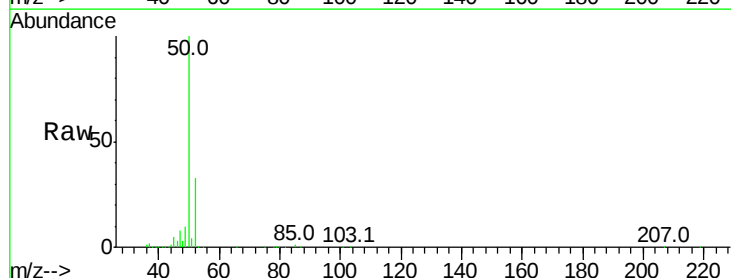
Acq: 11 Nov 2019 12:38

Tgt Ion: 50 Resp: 353435

Ion Ratio Lower Upper

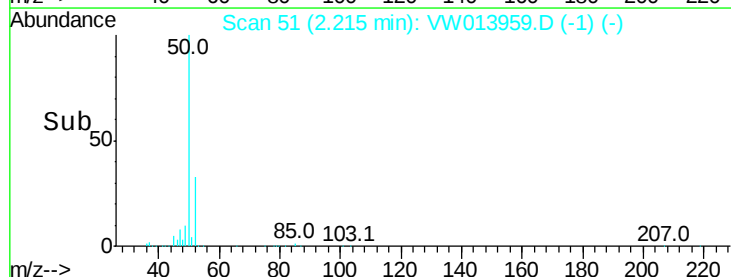
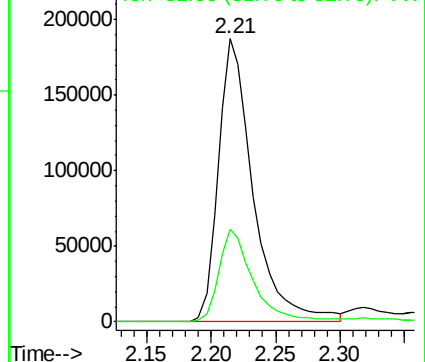
50 100

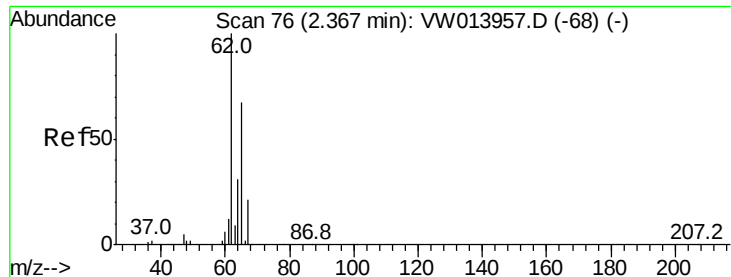
52 32.6 23.8 44.2



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 96.100 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

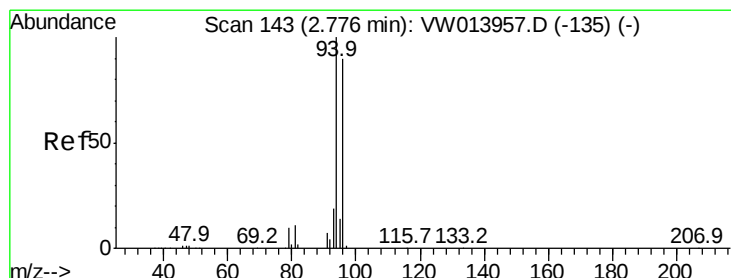
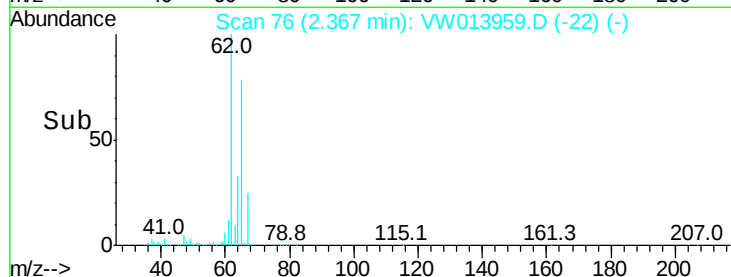
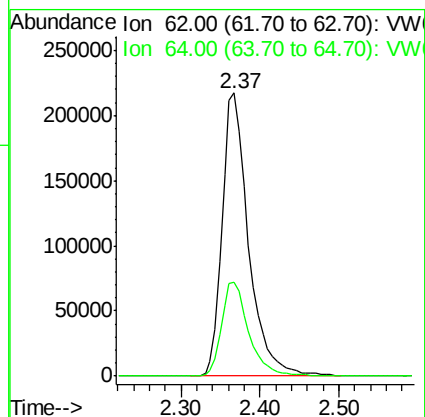
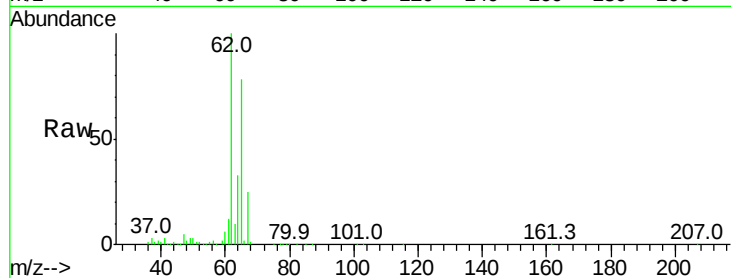
VSTD10004

Tgt Ion: 62 Resp: 507512

Ion Ratio Lower Upper

62 100

64 33.1 21.8 40.4



#6

Bromomethane

Concen: 90.219 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW013959.D

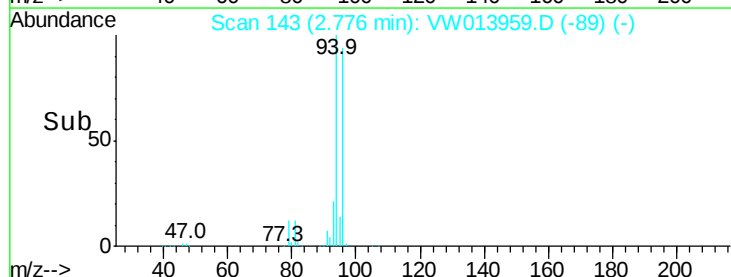
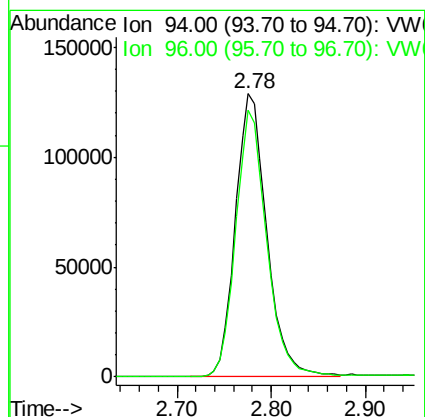
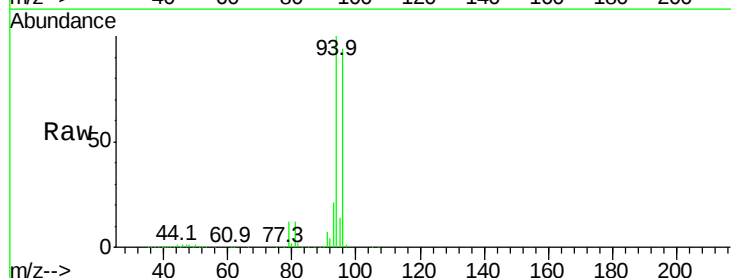
Acq: 11 Nov 2019 12:38

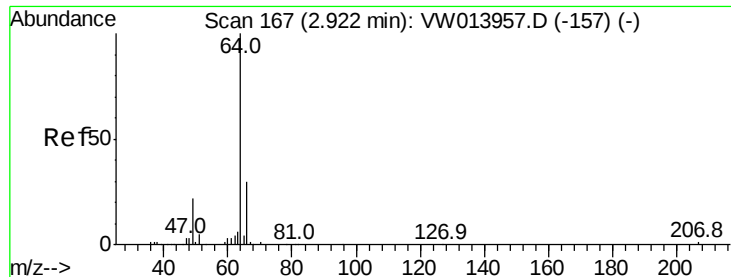
Tgt Ion: 94 Resp: 299700

Ion Ratio Lower Upper

94 100

96 93.0 9.4 178.8





#8

Chloroethane

Concen: 100.390 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

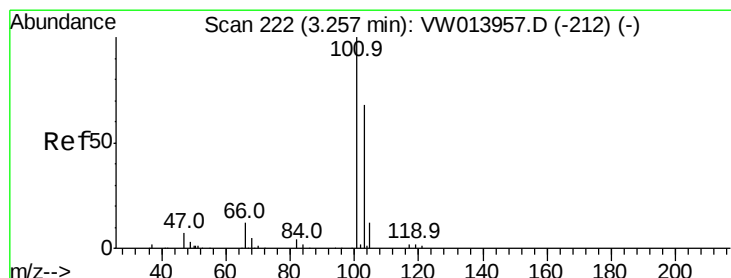
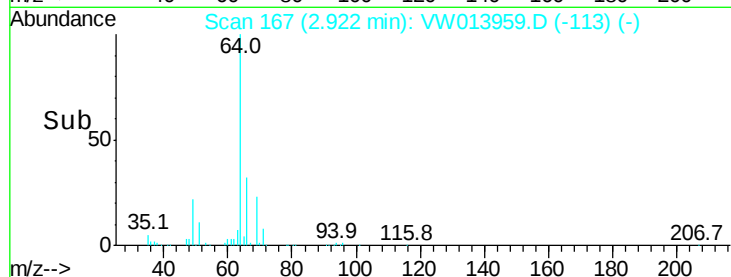
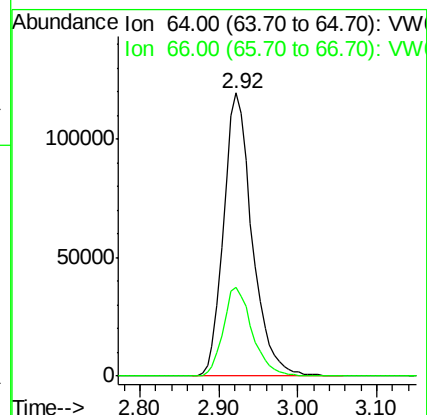
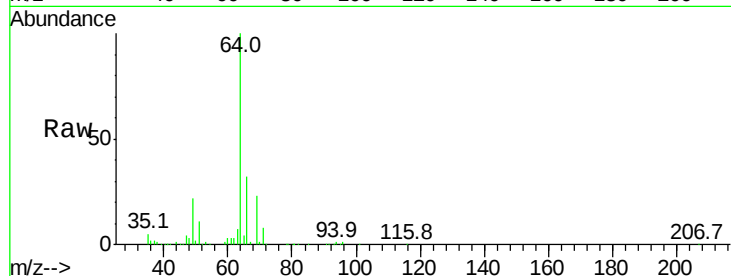
VSTD10004

Tgt Ion: 64 Resp: 300978

Ion Ratio Lower Upper

64 100

66 31.6 21.2 39.4



#9

Trichlorofluoromethane

Concen: 139.117 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW013959.D

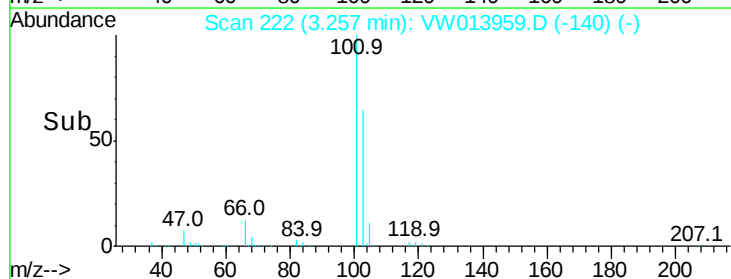
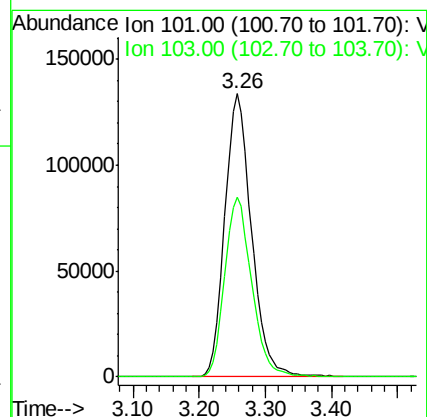
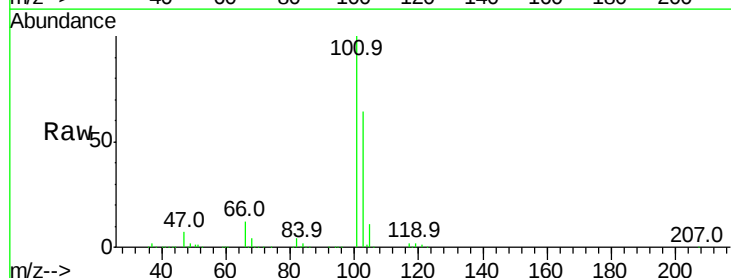
Acq: 11 Nov 2019 12:38

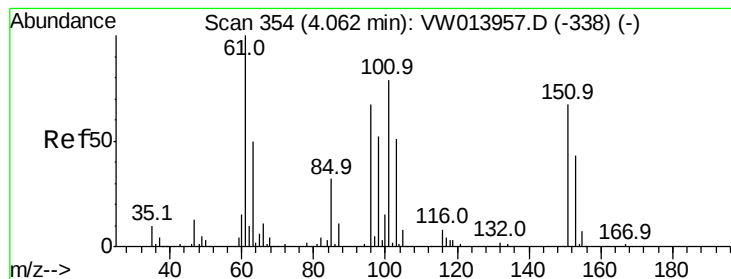
Tgt Ion: 101 Resp: 374258

Ion Ratio Lower Upper

101 100

103 64.0 45.4 84.2





#11

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

Concen: 98.183 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10004

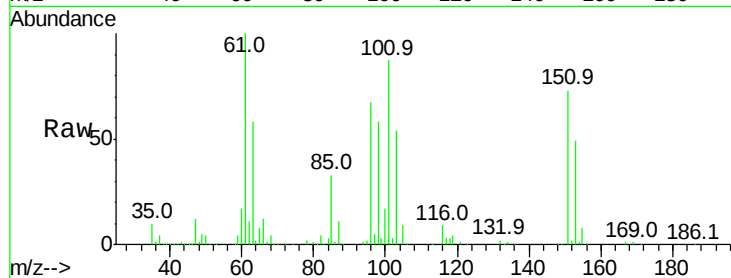
Tgt Ion: 101 Resp: 506917

Ion Ratio Lower Upper

101 100

85 39.9 31.4 47.2

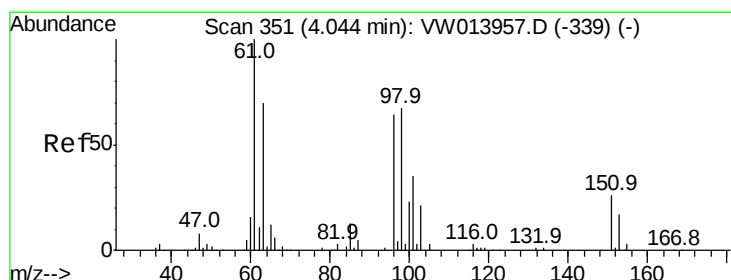
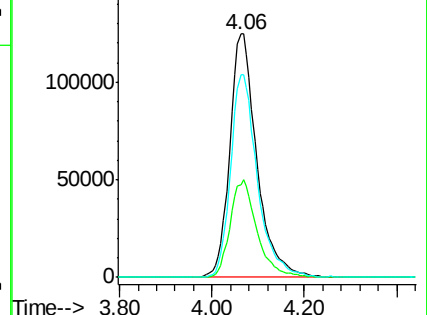
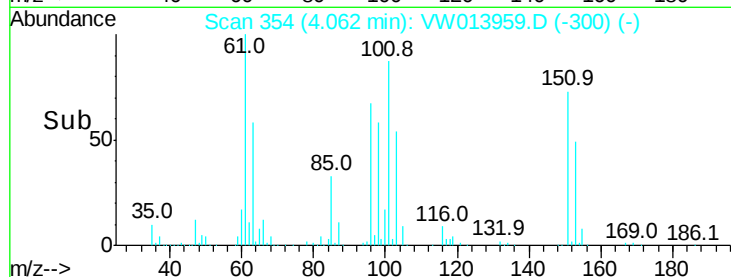
151 82.5 66.9 100.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 99.621 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

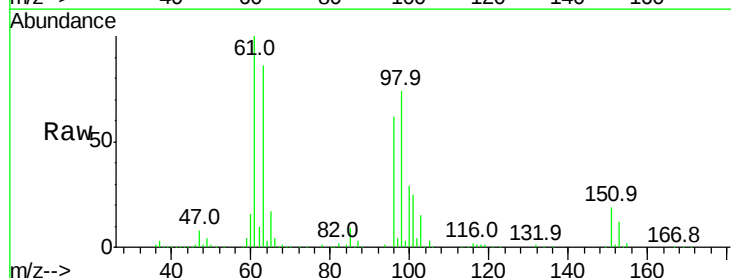
Tgt Ion: 96 Resp: 515705

Ion Ratio Lower Upper

96 100

61 160.2 109.8 204.0

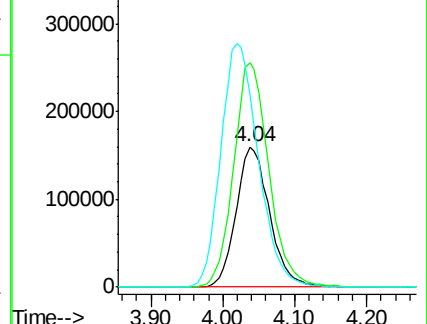
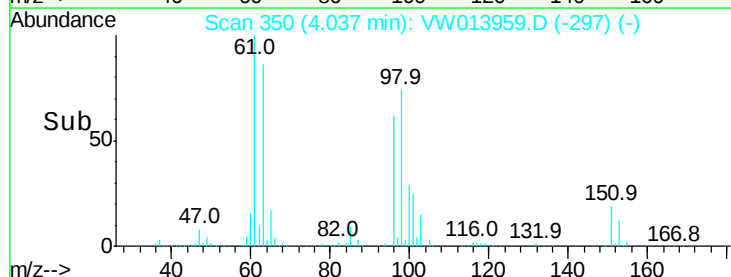
63 137.4 80.7 149.9

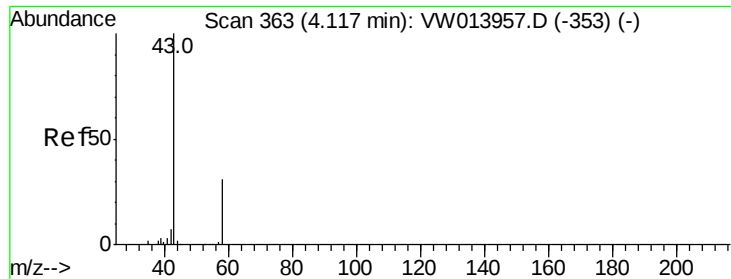


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 92.527 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

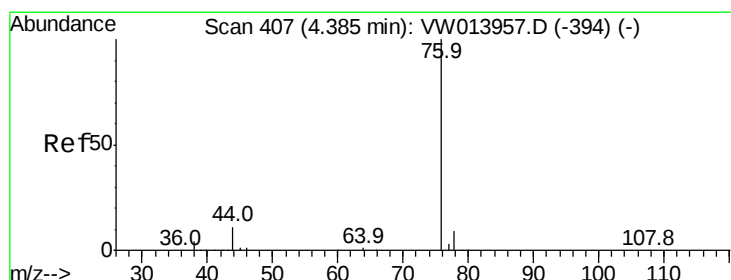
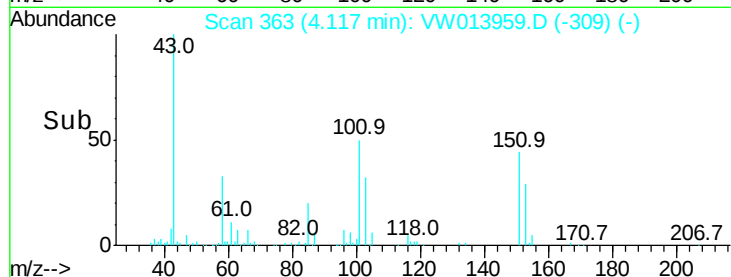
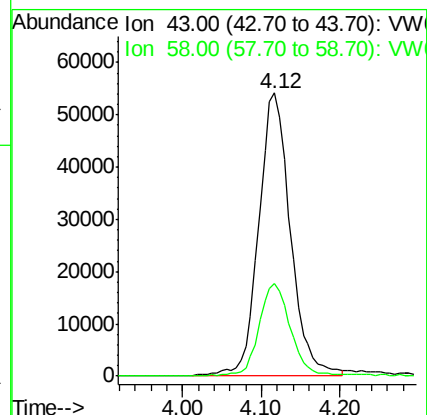
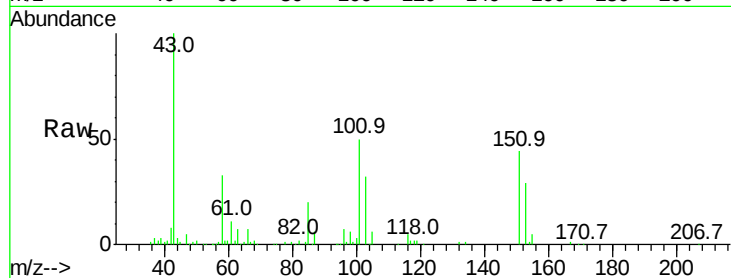
VSTD10004

Tgt Ion: 43 Resp: 151348

Ion Ratio Lower Upper

43 100

58 32.7 0.0 65.4



#14

Carbon disulfide

Concen: 102.559 ug/L

RT: 4.38 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW013959.D

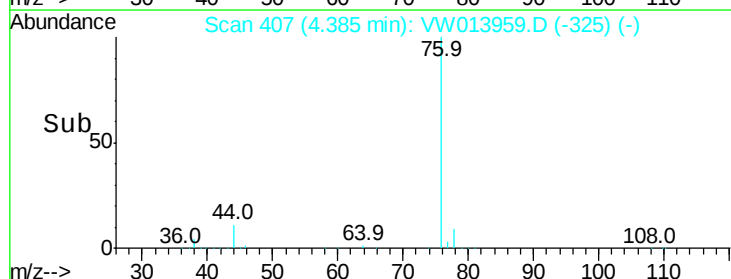
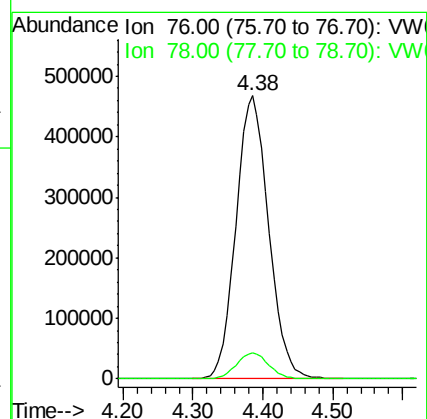
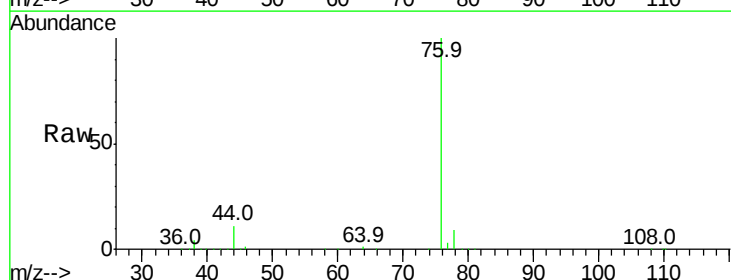
Acq: 11 Nov 2019 12:38

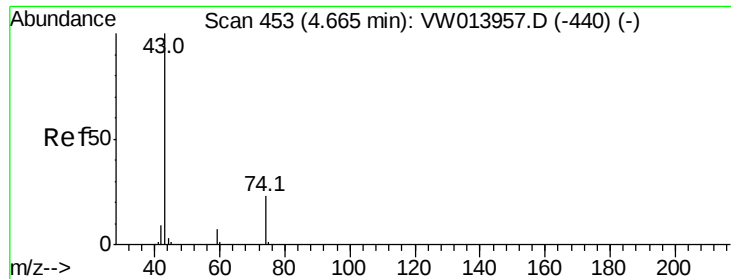
Tgt Ion: 76 Resp: 1517411

Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8

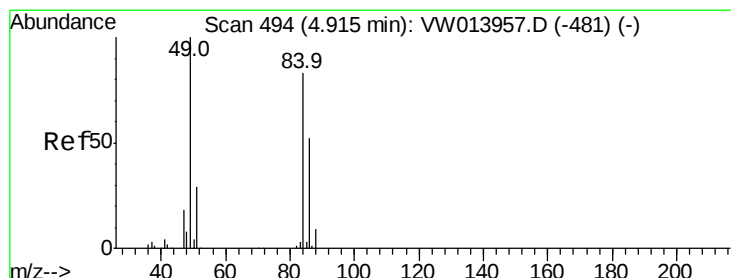
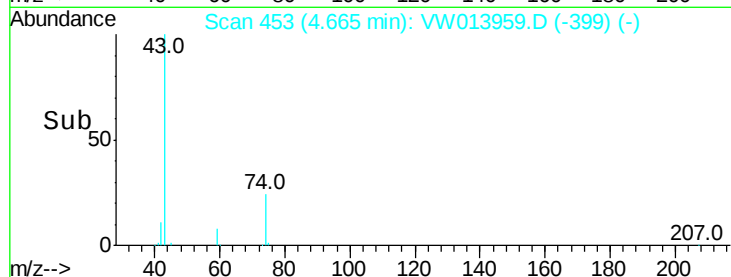
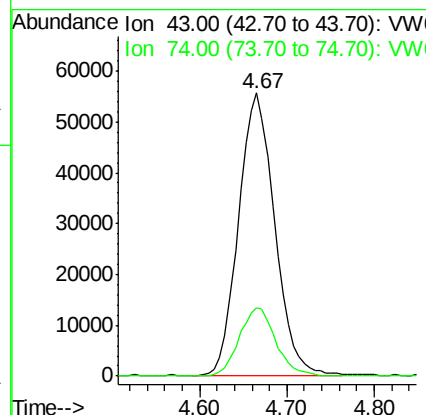
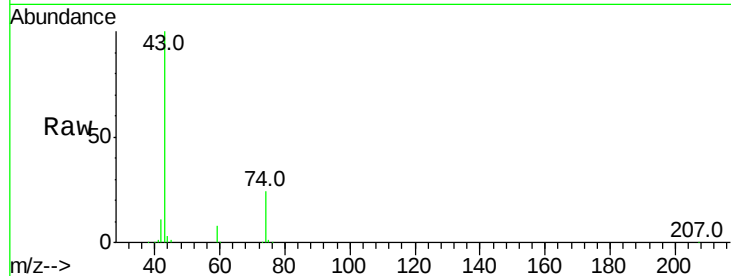




#15  
Methyl Acetate  
Concen: 56.242 ug/L  
RT: 4.67 min Scan# 453  
Delta R.T. 0.00 min  
Lab File: VW013959.D  
Acq: 11 Nov 2019 12:38

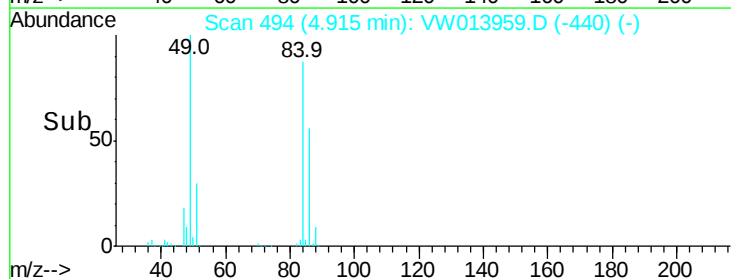
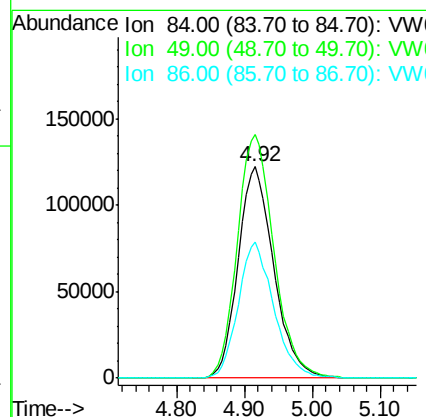
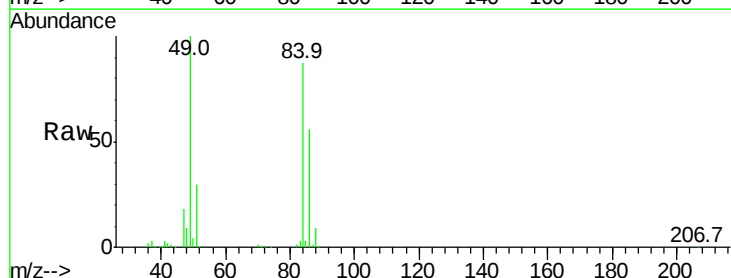
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10004

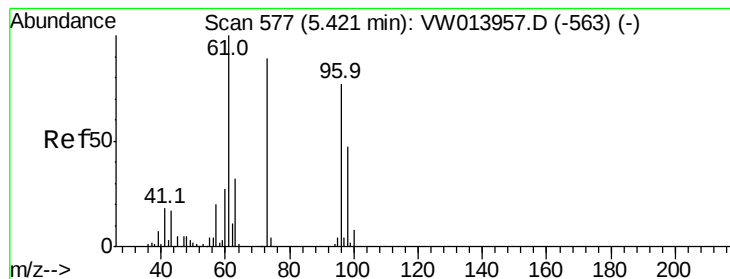
Tgt Ion: 43 Resp: 159300  
Ion Ratio Lower Upper  
43 100  
74 24.7 19.3 28.9



#16  
Methylene chloride  
Concen: 79.510 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW013959.D  
Acq: 11 Nov 2019 12:38

Tgt Ion: 84 Resp: 445928  
Ion Ratio Lower Upper  
84 100  
49 115.1 84.2 156.4  
86 64.3 43.7 81.1





#17

Methyl tert-butyl Ether

Concen: 78.112 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10004

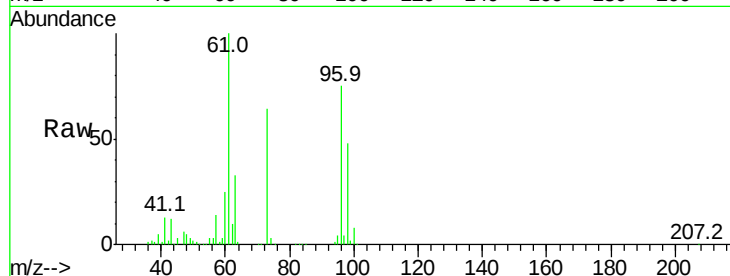
Tgt Ion: 73 Resp: 511531

Ion Ratio Lower Upper

73 100

43 18.9 15.5 23.3

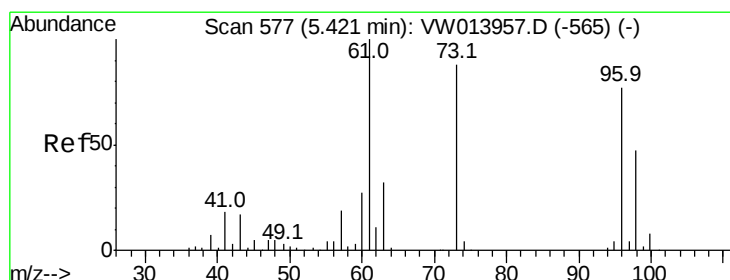
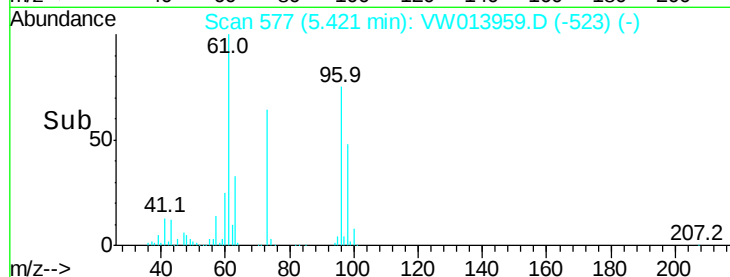
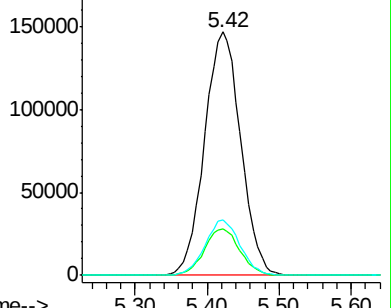
57 22.0 18.2 27.4



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: 96.328 ug/L

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

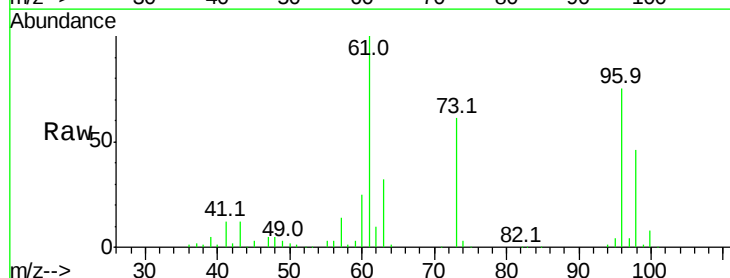
Tgt Ion: 96 Resp: 519693

Ion Ratio Lower Upper

96 100

61 133.4 90.6 168.2

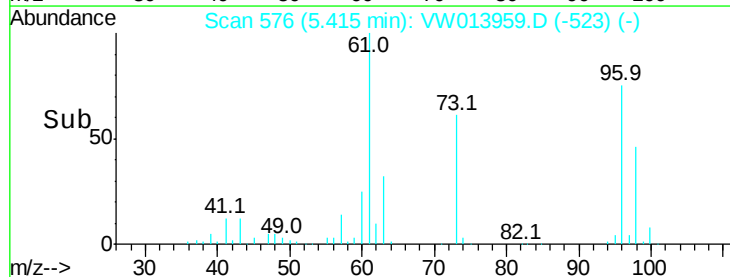
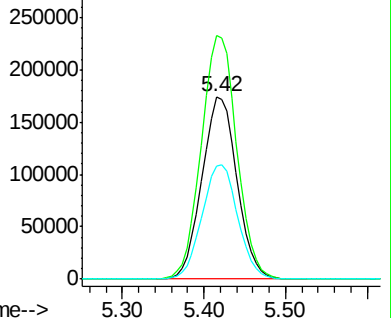
98 62.0 42.9 79.7

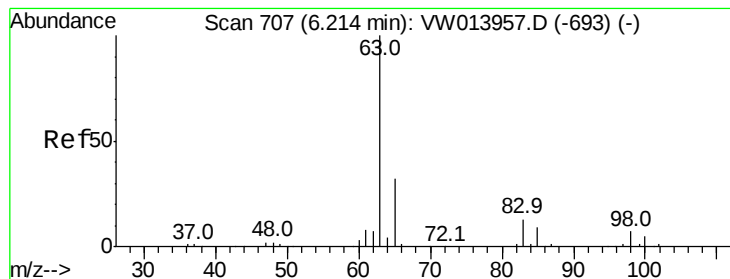


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW





#19

1,1-Dichloroethane

Concen: 93.830 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampled :

VSTD10004

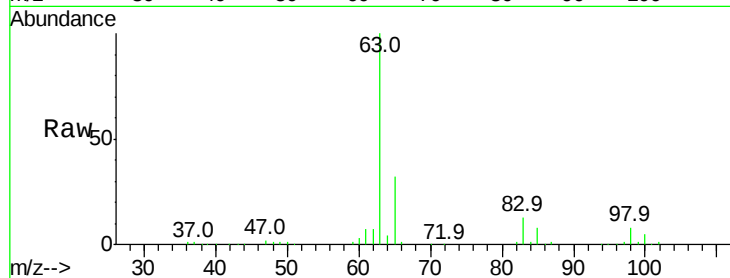
Tgt Ion: 63 Resp: 859480

Ion Ratio Lower Upper

63 100

65 31.5 22.1 41.1

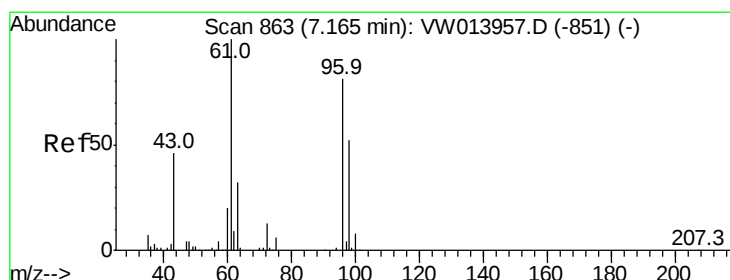
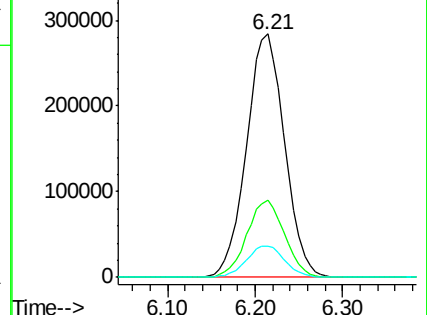
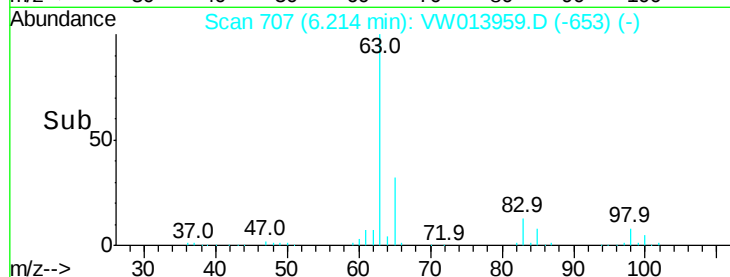
83 13.0 9.0 16.6



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: 99.799 ug/L

RT: 7.16 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW013959.D

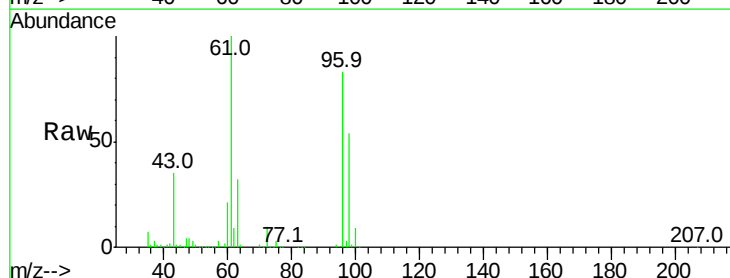
Acq: 11 Nov 2019 12:38

Tgt Ion: 43 Resp: 224073

Ion Ratio Lower Upper

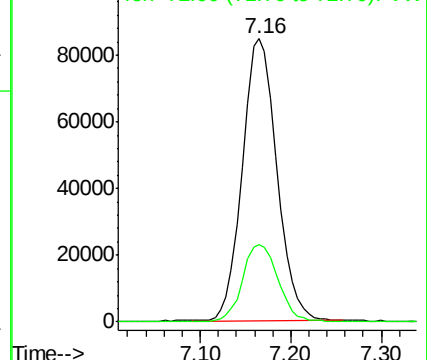
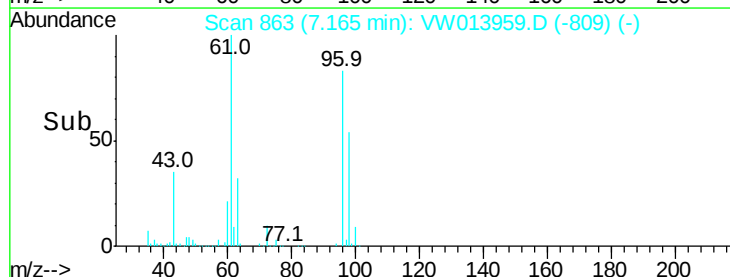
43 100

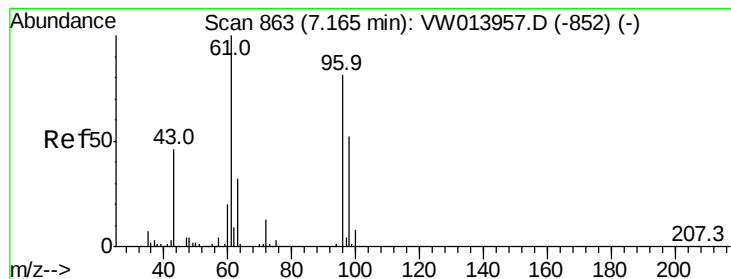
72 28.0 14.1 42.2



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: 93.602 ug/L

RT: 7.16 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10004

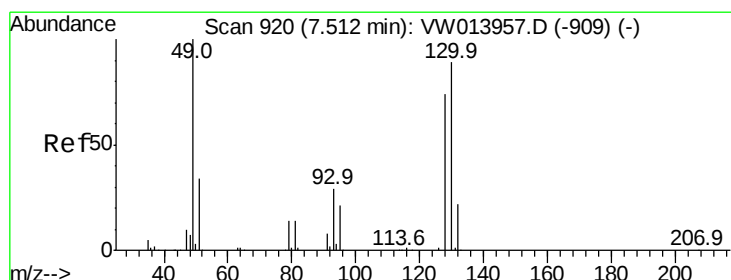
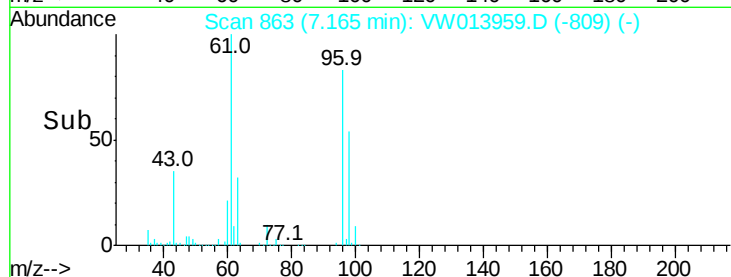
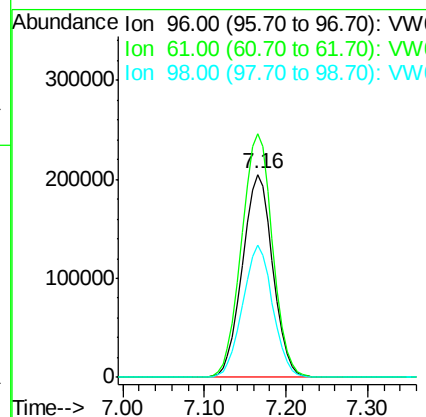
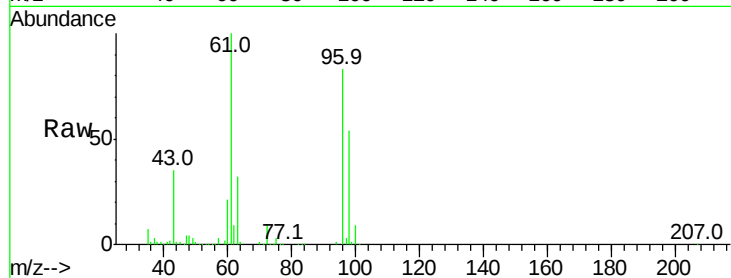
Tgt Ion: 96 Resp: 531052

Ion Ratio Lower Upper

96 100

61 119.9 86.9 161.5

98 64.8 45.5 84.5



#23

Bromochloromethane

Concen: 78.621 ug/L

RT: 7.51 min Scan# 920

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Tgt Ion: 128 Resp: 209739

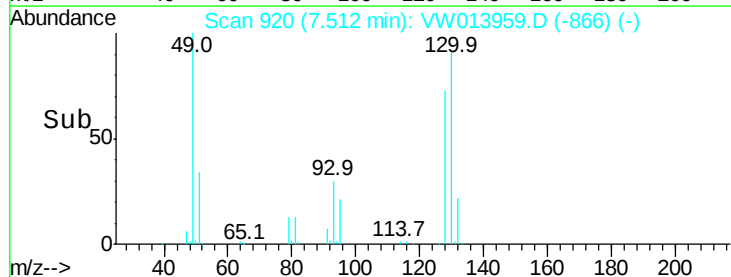
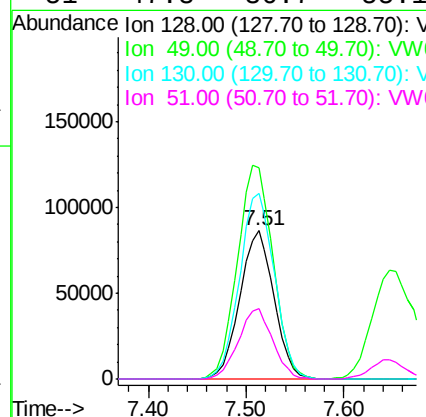
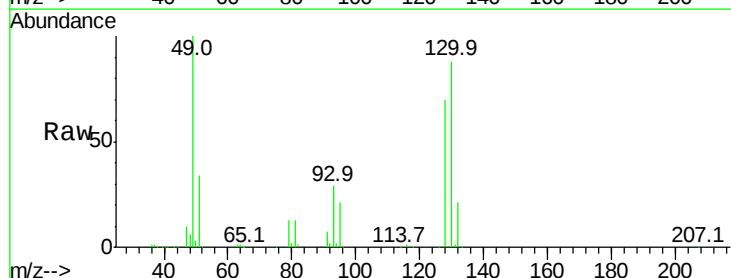
Ion Ratio Lower Upper

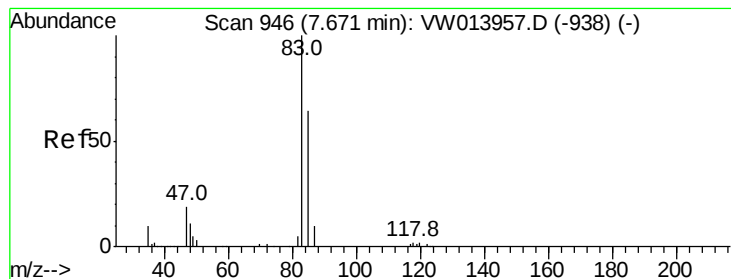
128 100

49 142.2 95.1 176.5

130 125.2 85.0 158.0

51 47.8 36.7 55.1





#25

Chloroform

Concen: 87.810 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

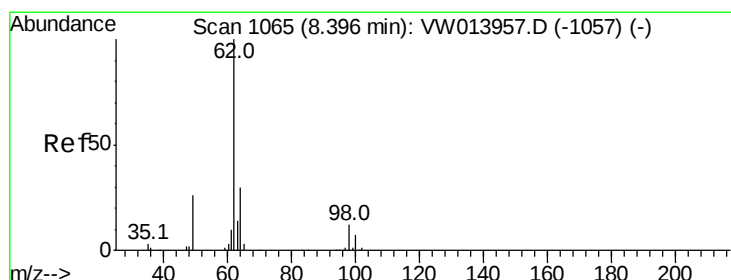
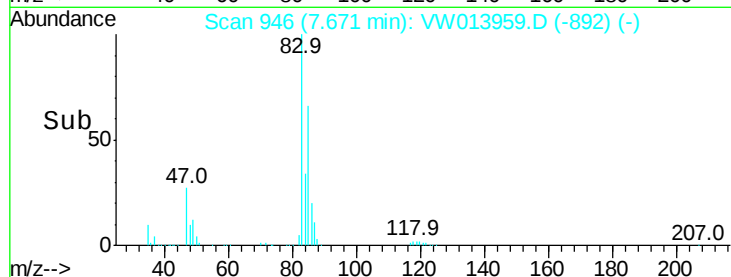
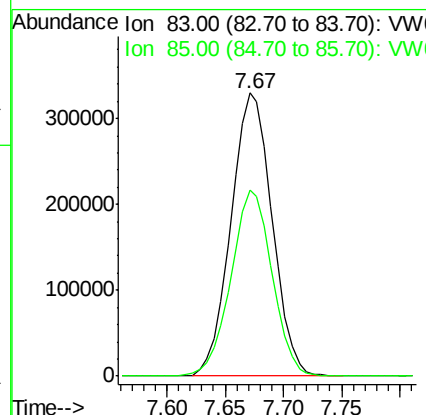
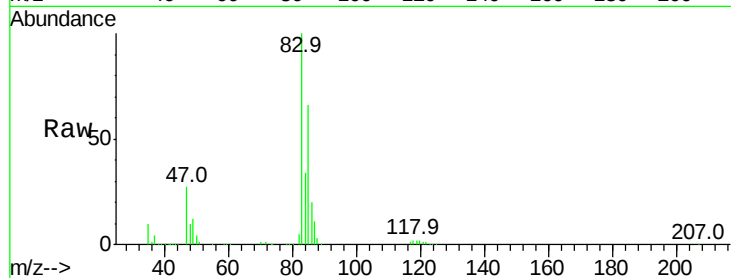
VSTD10004

Tgt Ion: 83 Resp: 808679

Ion Ratio Lower Upper

83 100

85 65.9 46.1 85.7



#27

1,2-Dichloroethane

Concen: 71.732 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW013959.D

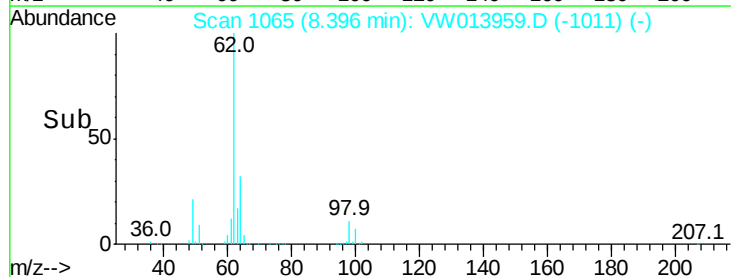
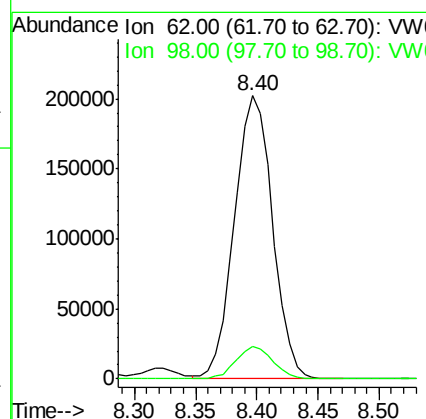
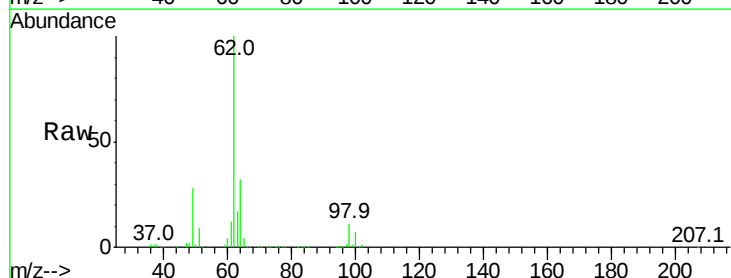
Acq: 11 Nov 2019 12:38

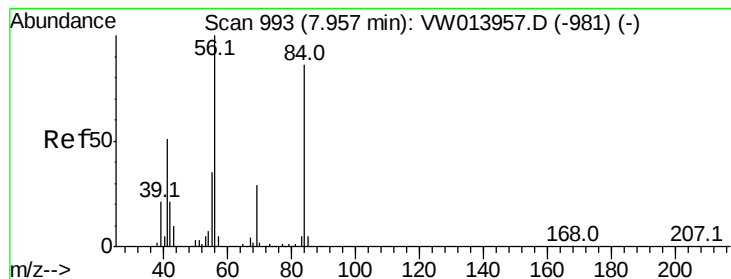
Tgt Ion: 62 Resp: 436924

Ion Ratio Lower Upper

62 100

98 11.5 9.3 13.9





#30

Cyclohexane

Concen: 112.108 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10004

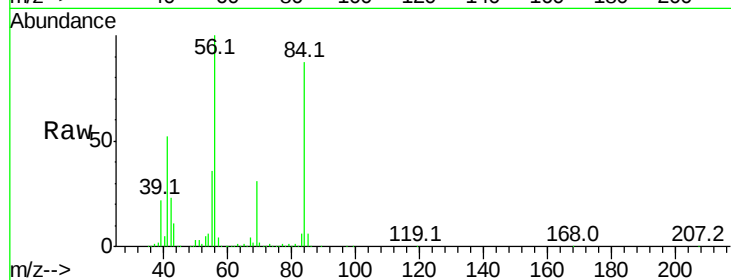
Tgt Ion: 56 Resp: 922155

Ion Ratio Lower Upper

56 100

69 30.7 24.6 37.0

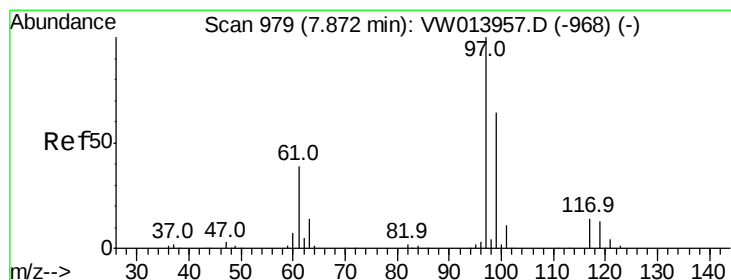
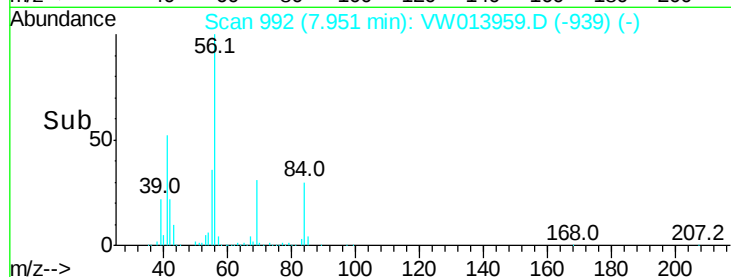
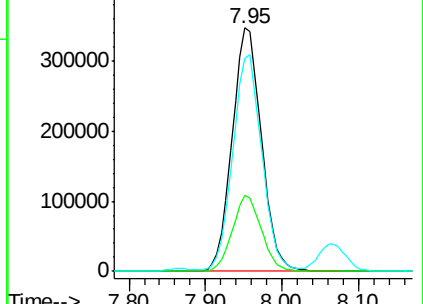
84 88.5 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 103.101 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

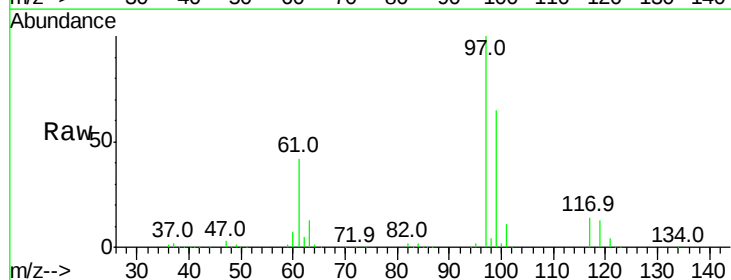
Tgt Ion: 97 Resp: 688194

Ion Ratio Lower Upper

97 100

99 64.9 51.1 76.7

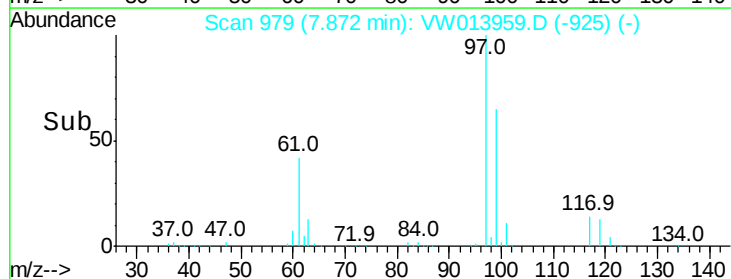
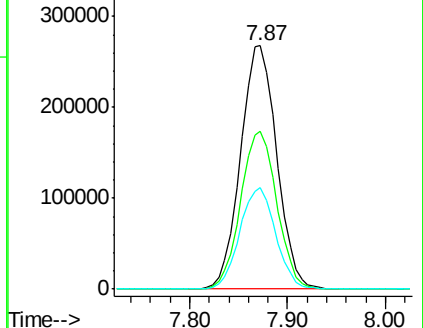
61 41.4 32.8 49.2

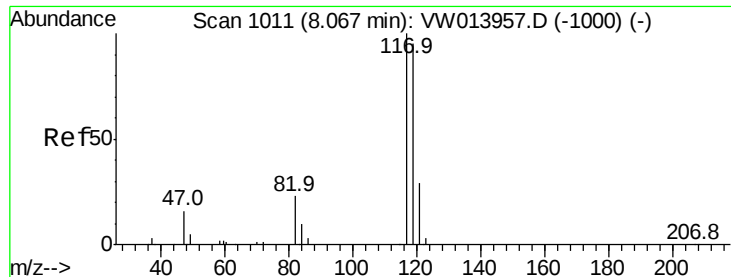


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 105.066 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

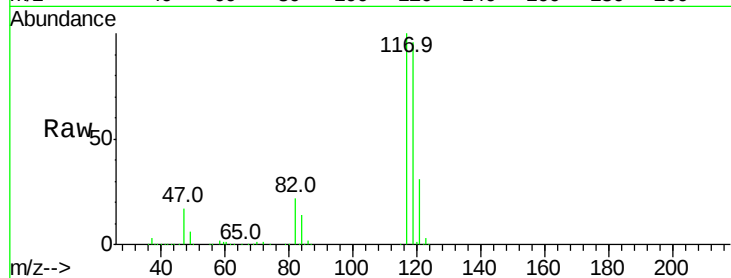
VSTD10004

Tgt Ion:117 Resp: 685802

Ion Ratio Lower Upper

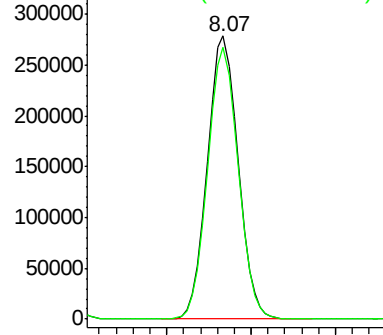
117 100

119 95.6 76.7 115.1

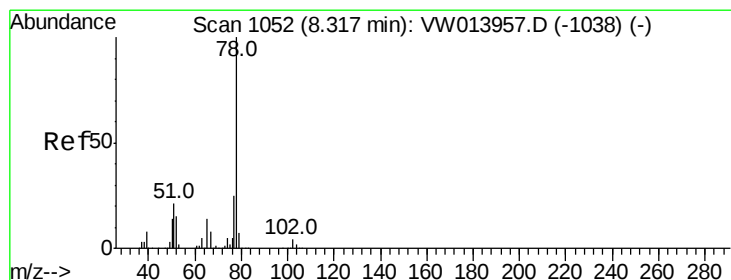
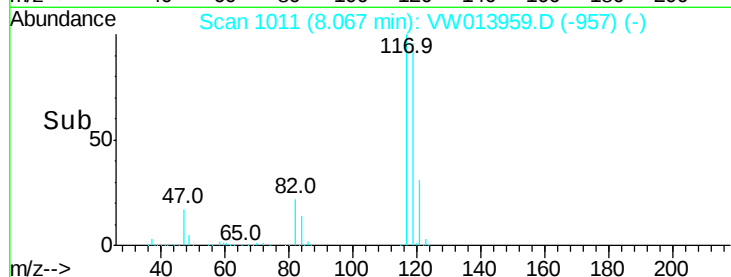


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#34

Benzene

Concen: 98.870 ug/L

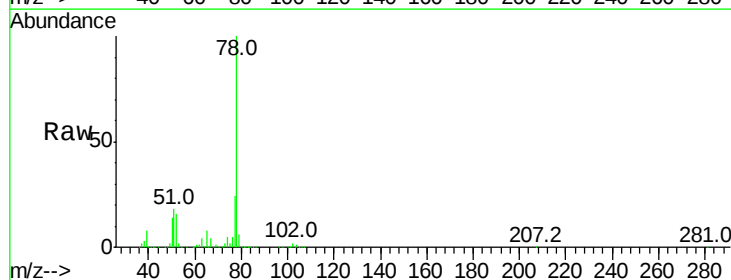
RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

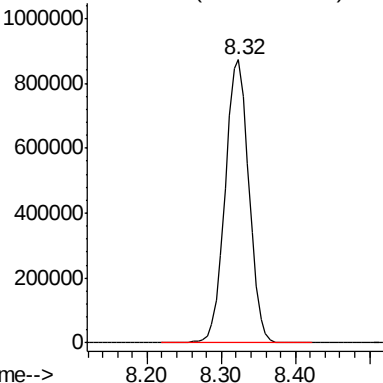
Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

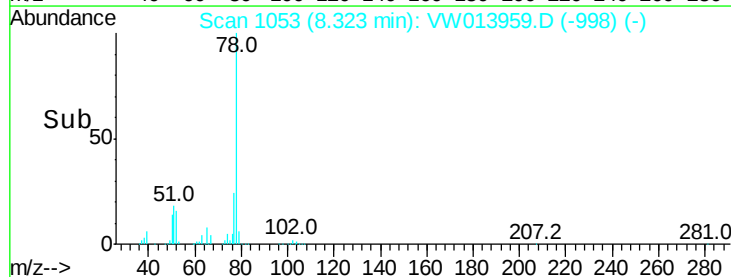
Tgt Ion: 78 Resp: 1956587

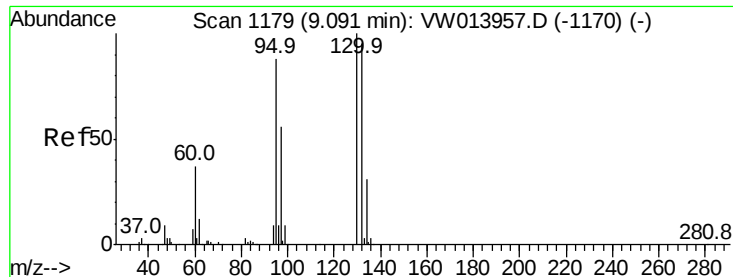


Abundance Ion 78.00 (77.70 to 78.70): VW



Time-->

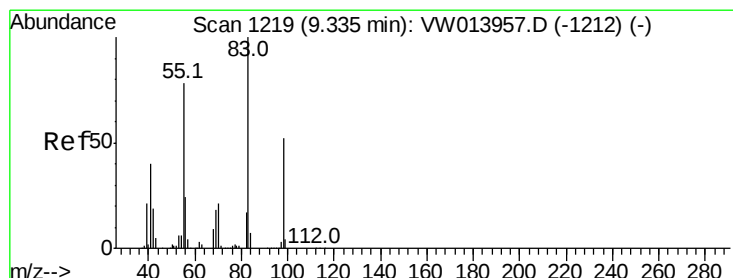
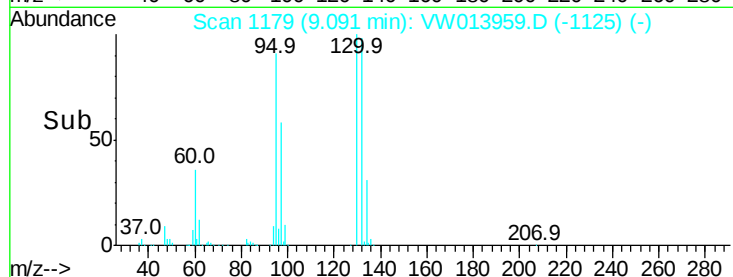
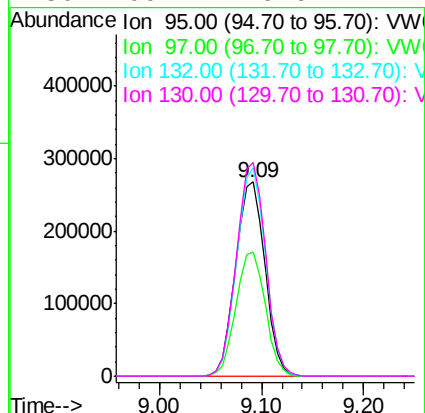
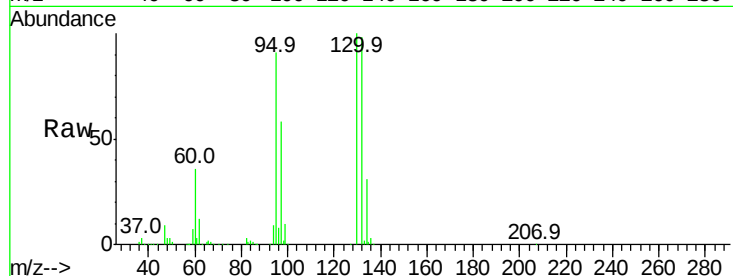




#35  
 Trichloroethene  
 Concen: 102.314 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. 0.00 min  
 Lab File: VW013959.D  
 Acq: 11 Nov 2019 12:38

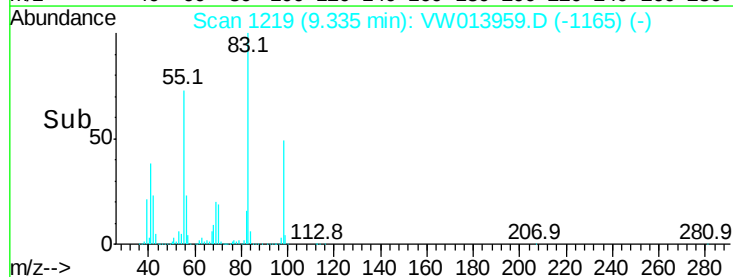
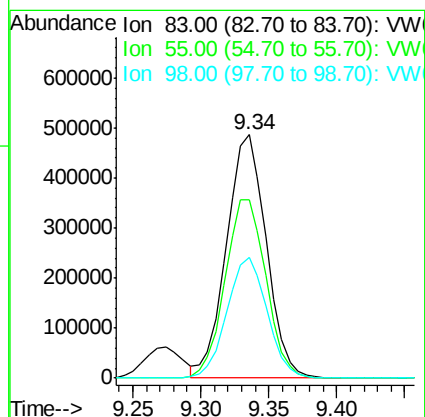
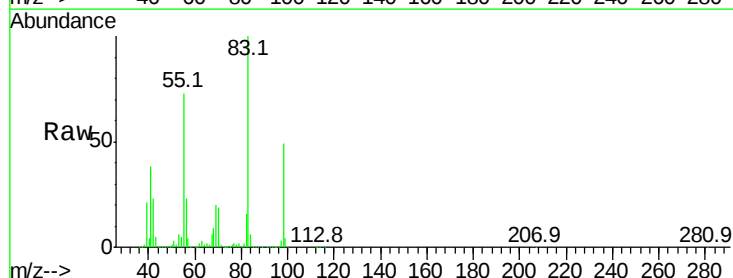
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD10004

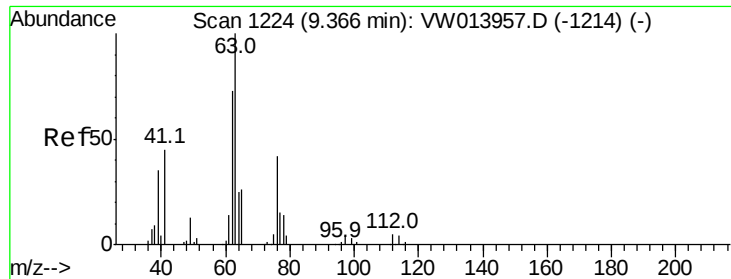
Tgt Ion: 95 Resp: 533730  
 Ion Ratio Lower Upper  
 95 100  
 97 63.8 45.1 83.9  
 132 105.6 73.7 136.9  
 130 109.2 76.6 142.2



#36  
 Methylcyclohexane  
 Concen: 108.371 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. 0.00 min  
 Lab File: VW013959.D  
 Acq: 11 Nov 2019 12:38

Tgt Ion: 83 Resp: 992291  
 Ion Ratio Lower Upper  
 83 100  
 55 75.3 59.8 89.8  
 98 49.9 39.5 59.3





#40

1,2-Dichloropropane

Concen: 92.838 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampled :

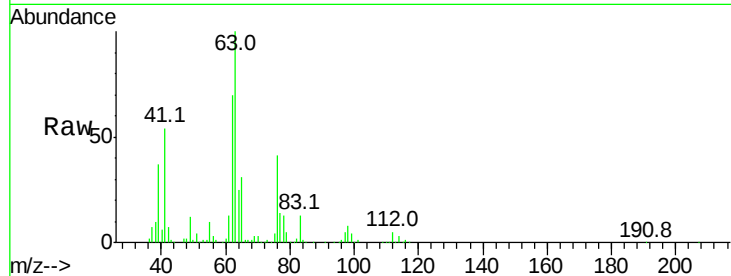
VSTD10004

Tgt Ion: 63 Resp: 450935

Ion Ratio Lower Upper

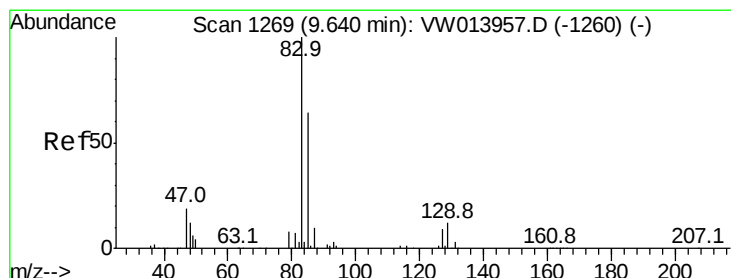
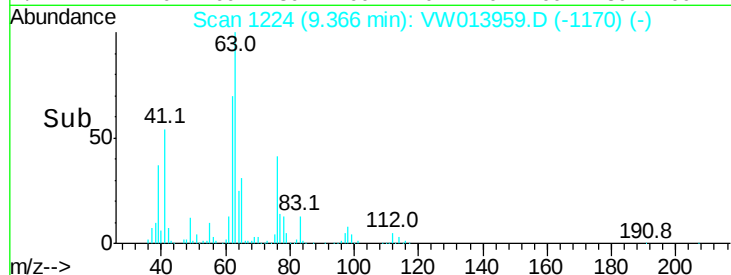
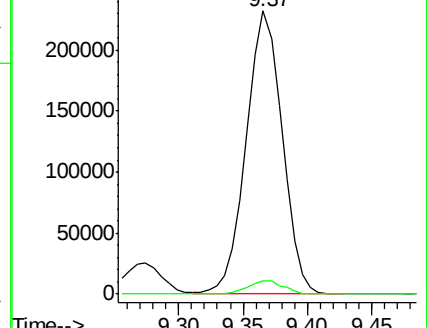
63 100

112 4.8 3.9 5.9



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 90.595 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

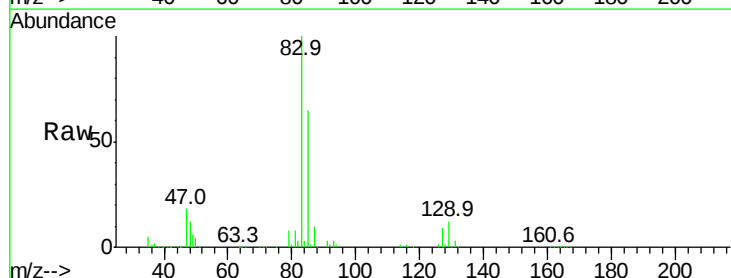
Tgt Ion: 83 Resp: 553177

Ion Ratio Lower Upper

83 100

85 65.3 45.1 83.7

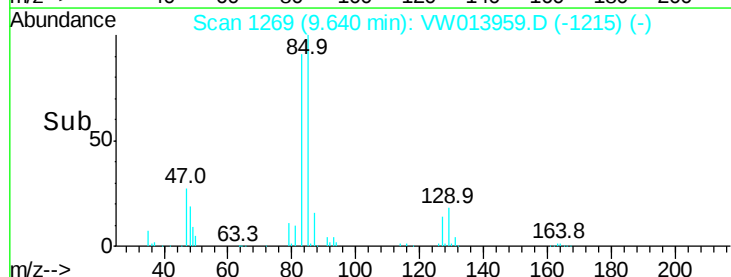
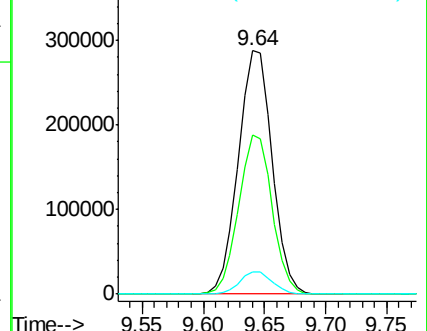
127 8.9 7.4 11.0

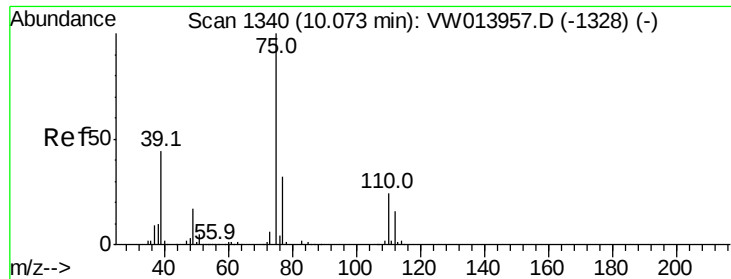


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 93.415 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampled :

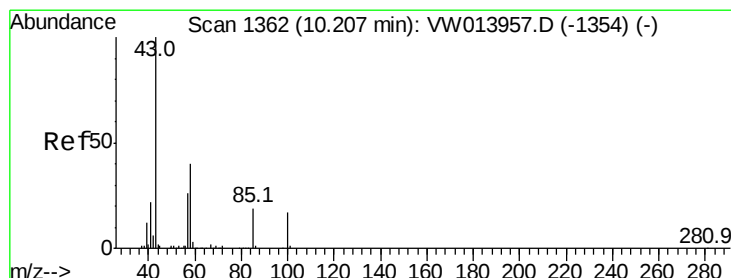
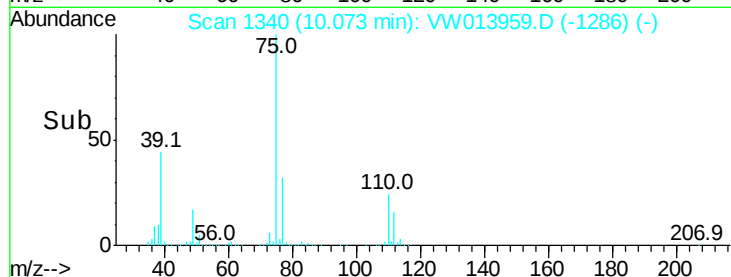
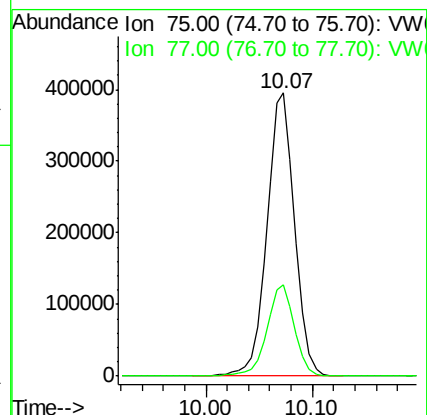
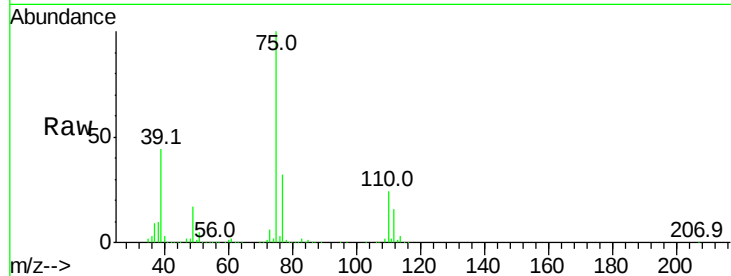
VSTD10004

Tgt Ion: 75 Resp: 715064

Ion Ratio Lower Upper

75 100

77 32.3 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 125.872 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

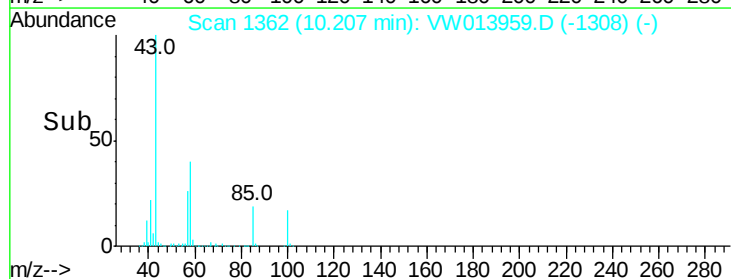
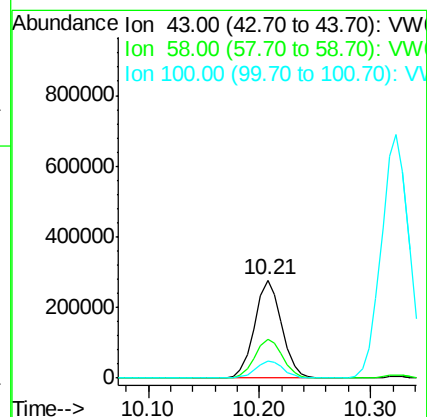
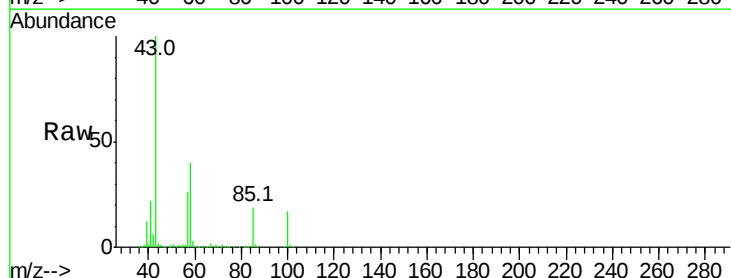
Tgt Ion: 43 Resp: 470194

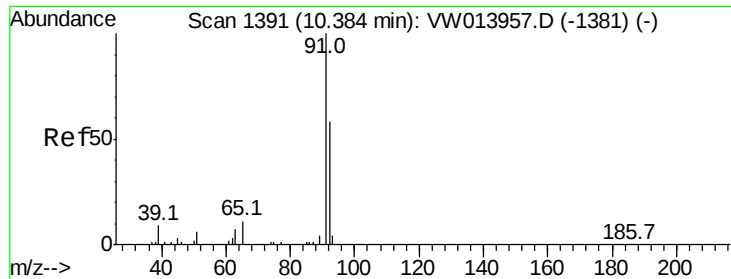
Ion Ratio Lower Upper

43 100

58 40.8 32.6 49.0

100 17.5 13.8 20.8





#44

Toluene

Concen: 100.870 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampled :

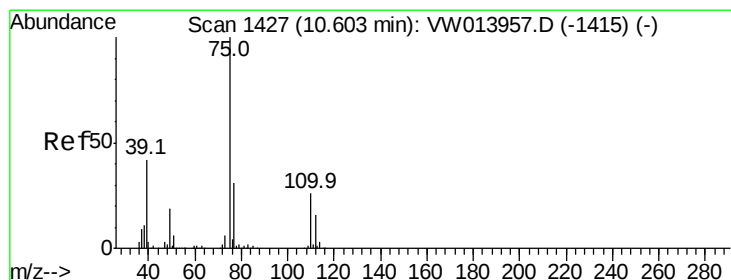
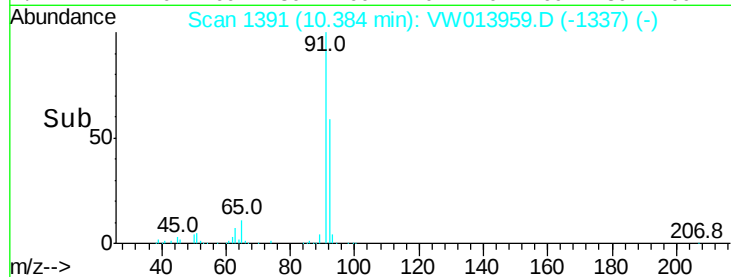
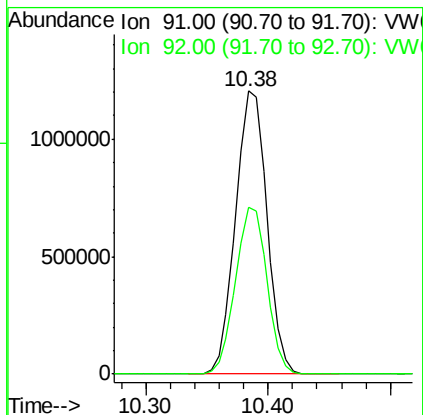
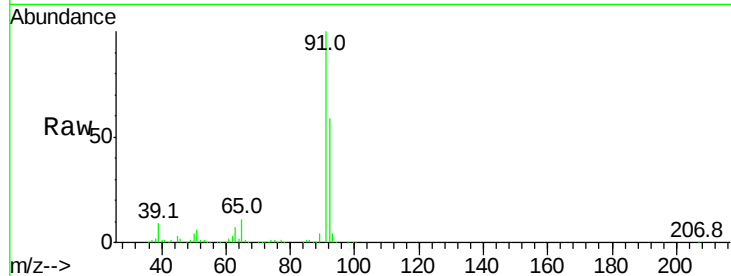
VSTD10004

Tgt Ion: 91 Resp: 2145013

Ion Ratio Lower Upper

91 100

92 59.1 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 84.717 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW013959.D

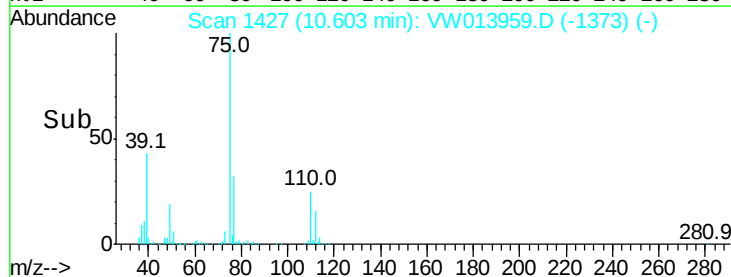
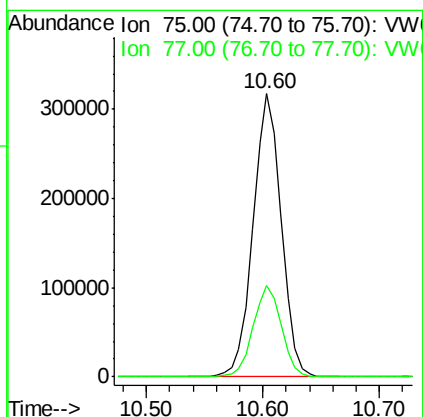
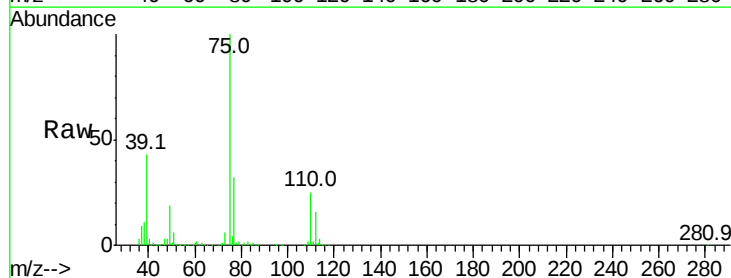
Acq: 11 Nov 2019 12:38

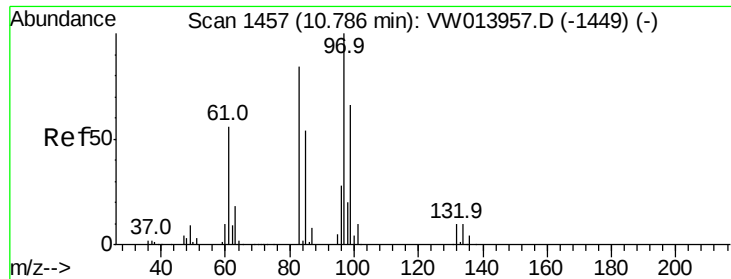
Tgt Ion: 75 Resp: 535842

Ion Ratio Lower Upper

75 100

77 32.3 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 75.575 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10004

Tgt Ion: 97 Resp: 293124

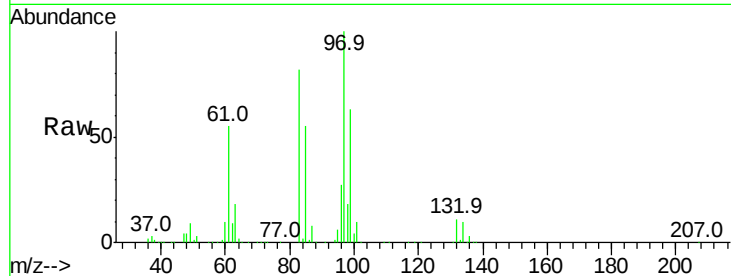
Ion Ratio Lower Upper

97 100

83 81.8 58.9 109.5

85 55.0 38.1 70.9

99 63.4 46.5 86.3



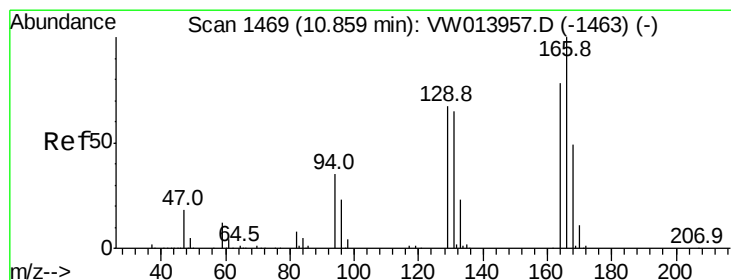
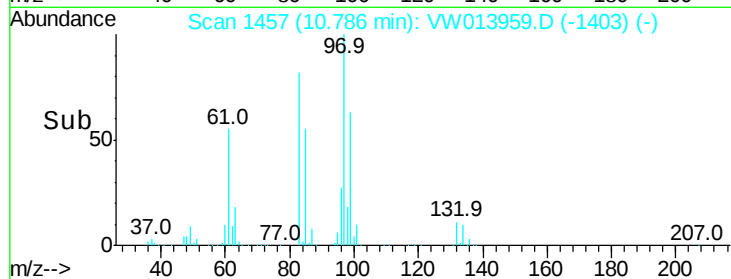
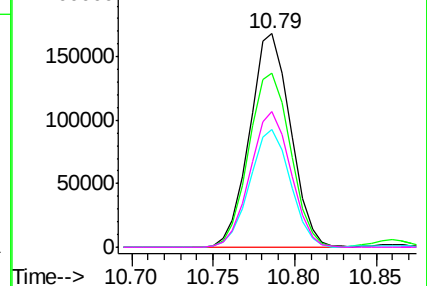
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 100.627 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Tgt Ion: 164 Resp: 483287

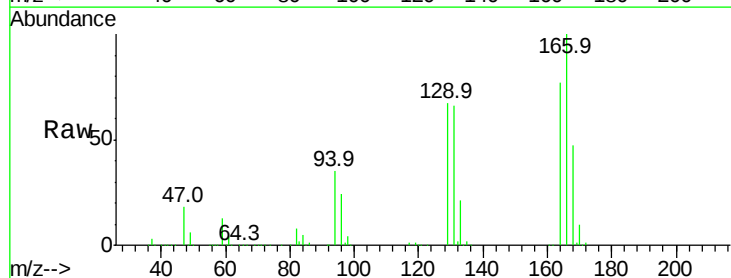
Ion Ratio Lower Upper

164 100

129 86.5 60.6 112.6

131 85.7 59.1 109.7

166 129.3 90.8 168.6



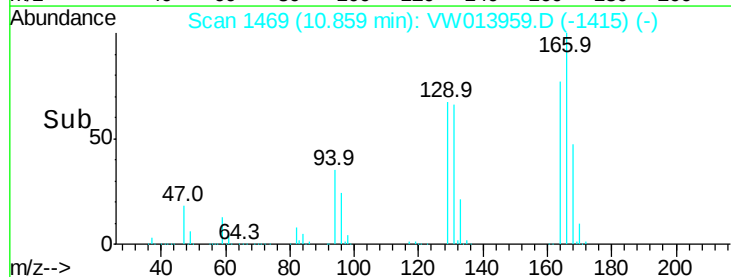
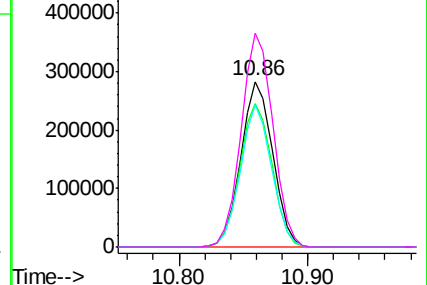
Abundance

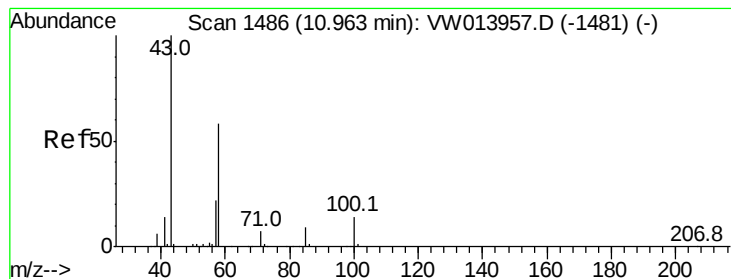
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

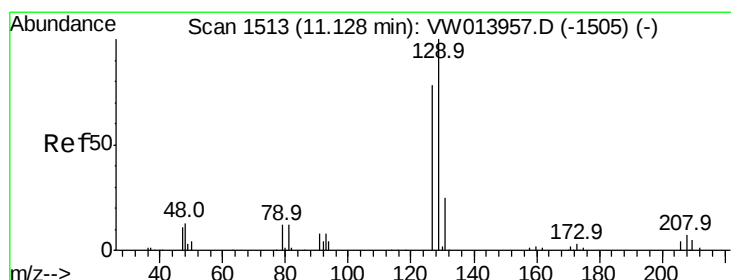
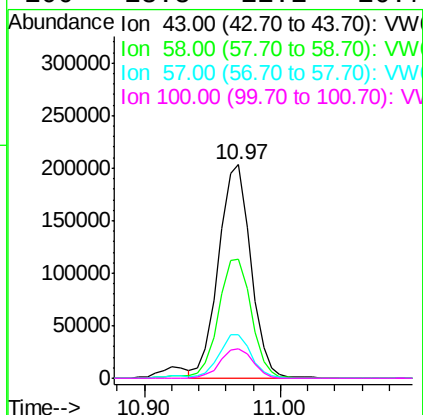
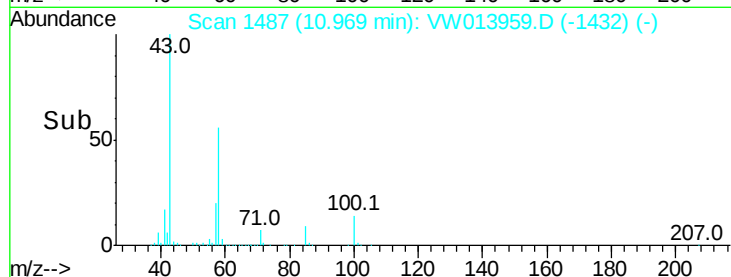
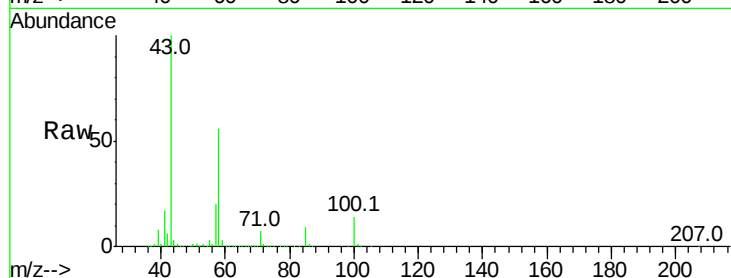




#49  
2-Hexanone  
Concen: 122.504 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.01 min  
Lab File: VW013959.D  
Acq: 11 Nov 2019 12:38

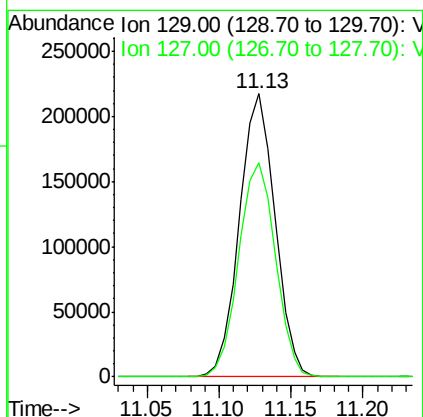
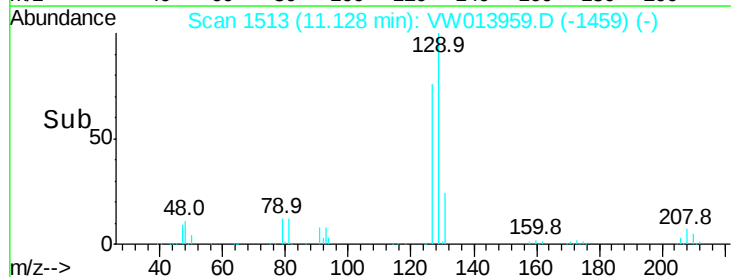
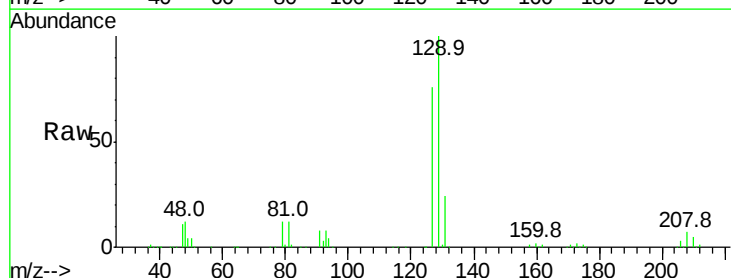
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10004

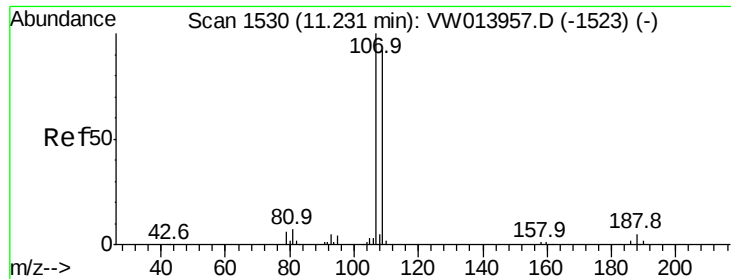
Tgt Ion: 43 Resp: 336178  
Ion Ratio Lower Upper  
43 100  
58 56.9 44.4 66.6  
57 20.4 16.5 24.7  
100 13.8 11.1 16.7



#50  
Dibromochloromethane  
Concen: 82.947 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW013959.D  
Acq: 11 Nov 2019 12:38

Tgt Ion: 129 Resp: 373460  
Ion Ratio Lower Upper  
129 100  
127 75.9 54.9 102.1

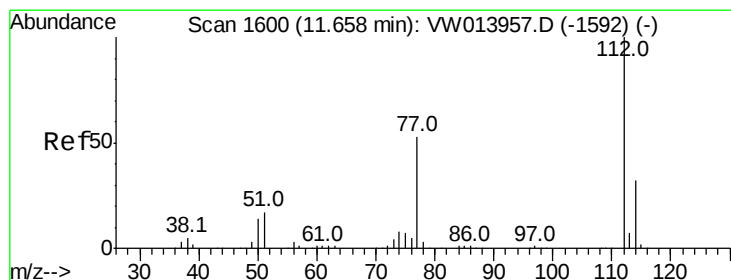
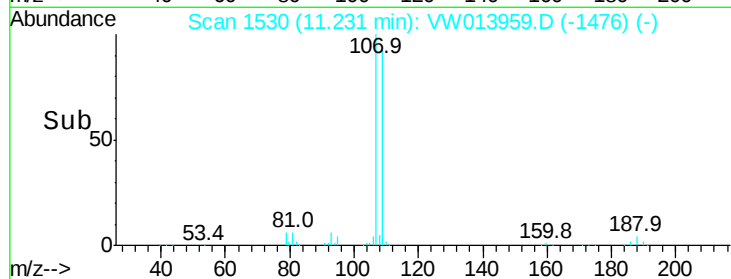
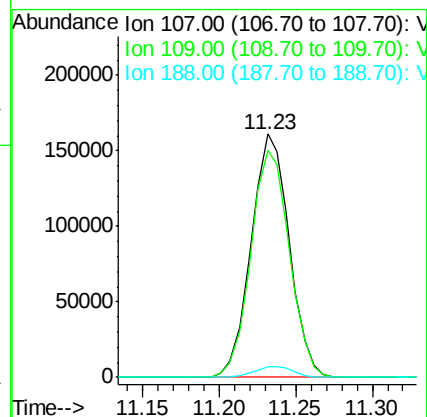
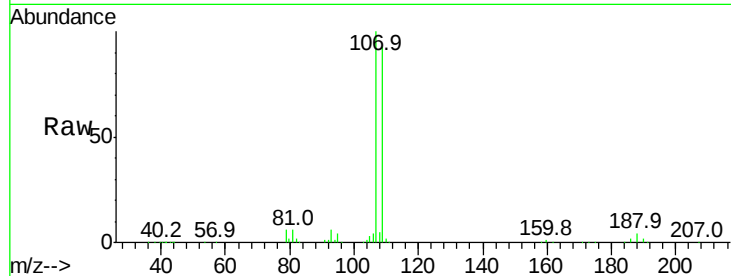




#51  
1,2-Dibromoethane  
Concen: 72.855 ug/L  
RT: 11.23 min Scan# 1530  
Delta R.T. 0.00 min  
Lab File: VW013959.D  
Acq: 11 Nov 2019 12:38

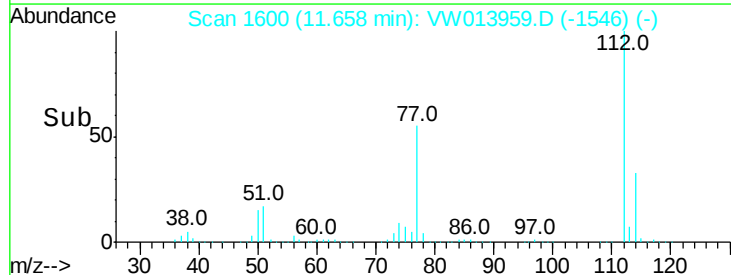
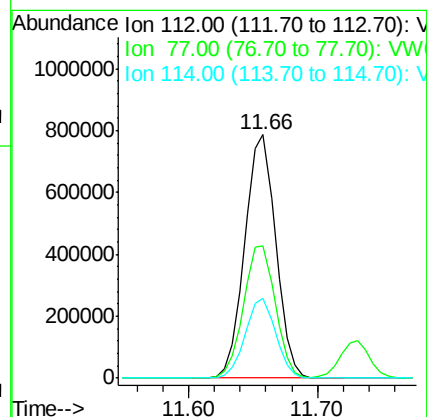
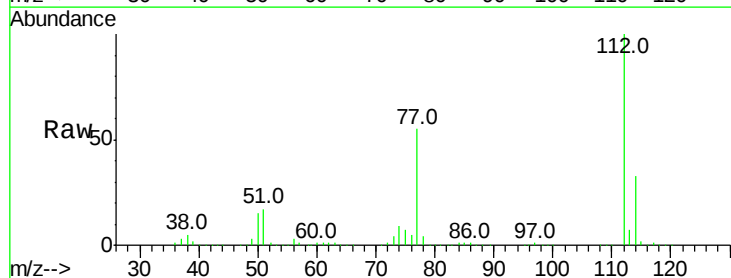
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10004

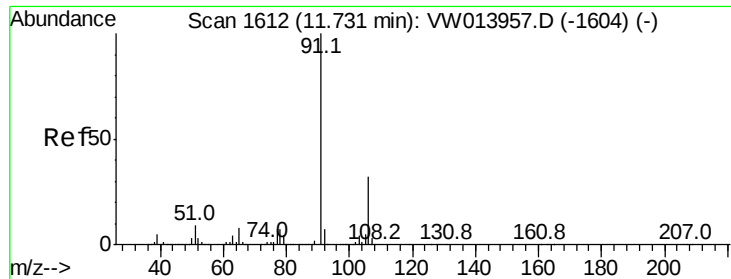
Tgt Ion:107 Resp: 279342  
Ion Ratio Lower Upper  
107 100  
109 93.2 64.6 120.0  
188 4.4 3.9 5.9



#52  
Chlorobenzene  
Concen: 95.304 ug/L  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW013959.D  
Acq: 11 Nov 2019 12:38

Tgt Ion:112 Resp: 1307010  
Ion Ratio Lower Upper  
112 100  
77 54.6 42.2 63.4  
114 32.7 22.5 41.9

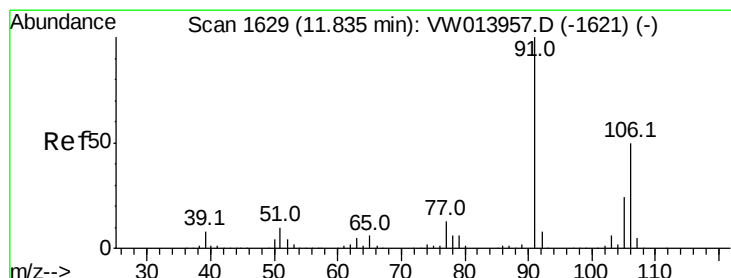
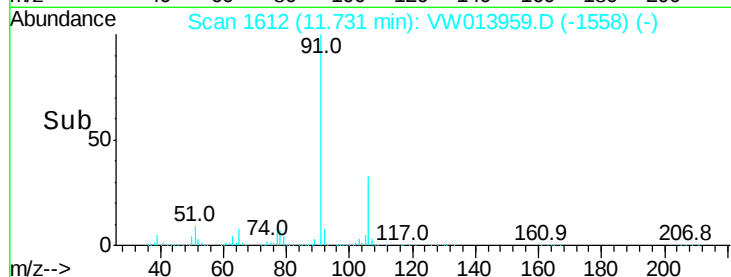
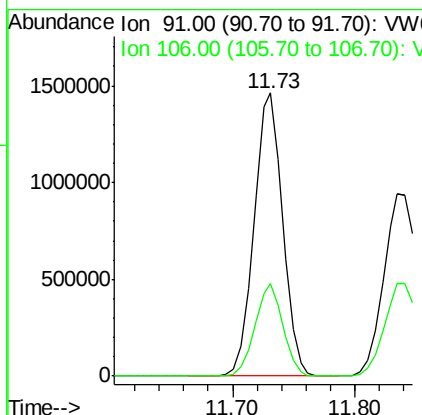
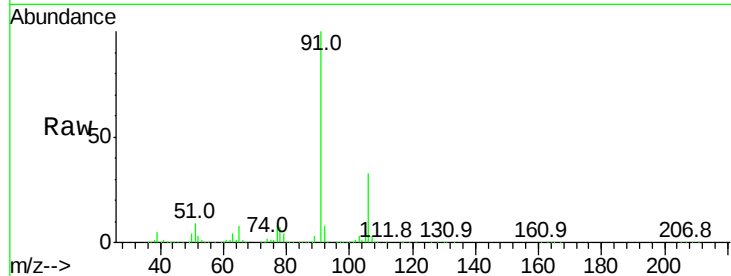




#53  
Ethylbenzene  
Concen: 100.544 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW013959.D  
Acq: 11 Nov 2019 12:38

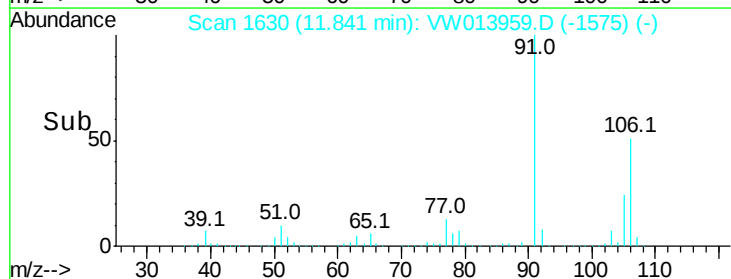
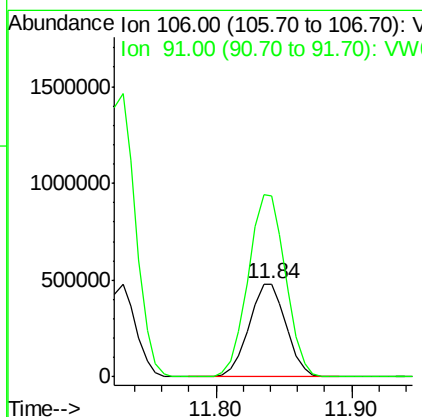
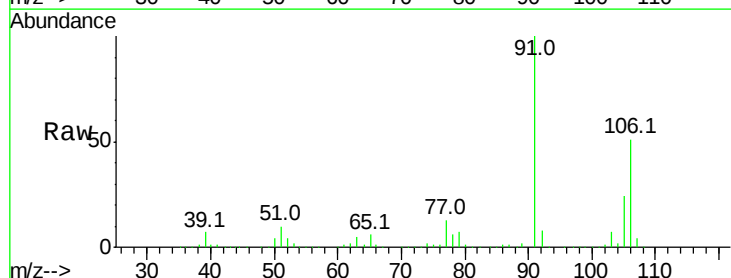
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10004

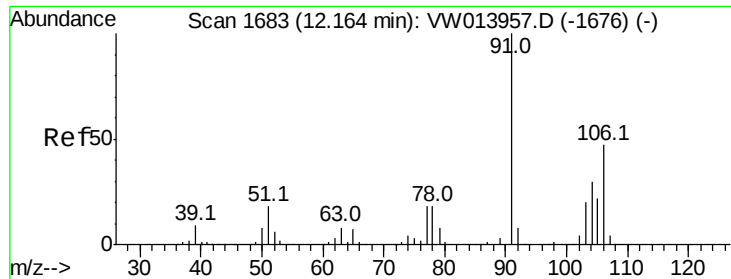
Tgt Ion: 91 Resp: 2380023  
Ion Ratio Lower Upper  
91 100  
106 32.5 22.3 41.5



#54  
m,p-Xylene  
Concen: 99.986 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.01 min  
Lab File: VW013959.D  
Acq: 11 Nov 2019 12:38

Tgt Ion: 106 Resp: 912109  
Ion Ratio Lower Upper  
106 100  
91 195.0 138.7 257.5





#55

o-xylene

Concen: 99.329 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

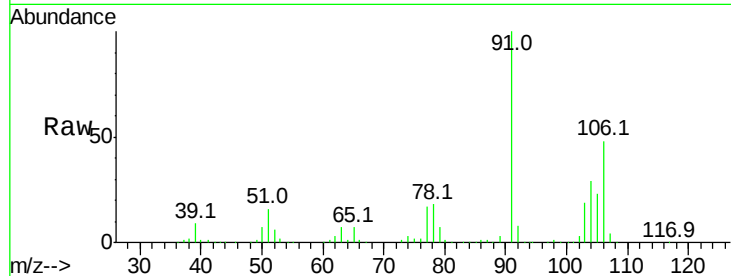
VSTD10004

Tgt Ion:106 Resp: 856500

Ion Ratio Lower Upper

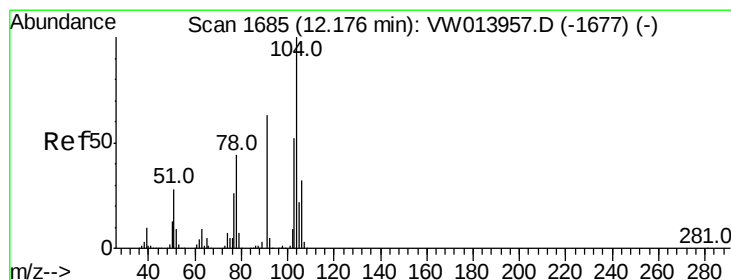
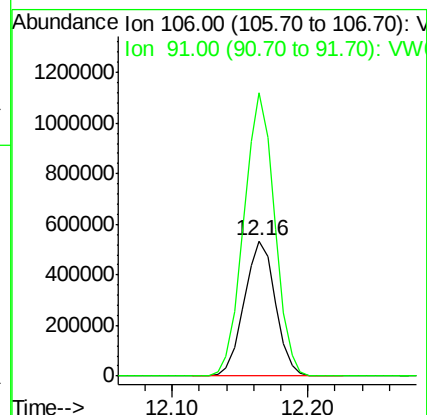
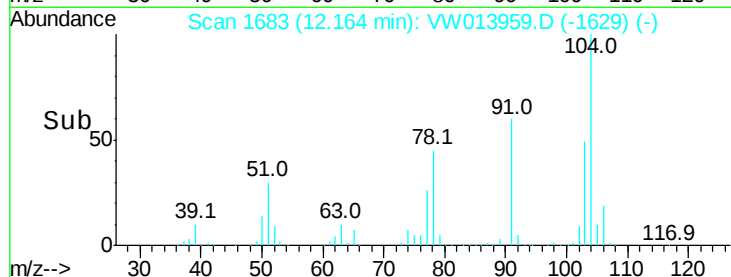
106 100

91 209.6 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 96.315 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VW013959.D

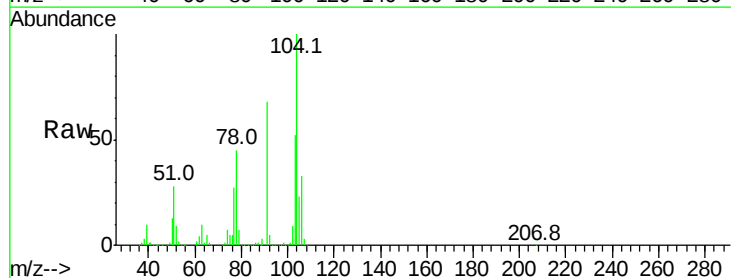
Acq: 11 Nov 2019 12:38

Tgt Ion:104 Resp: 1433166

Ion Ratio Lower Upper

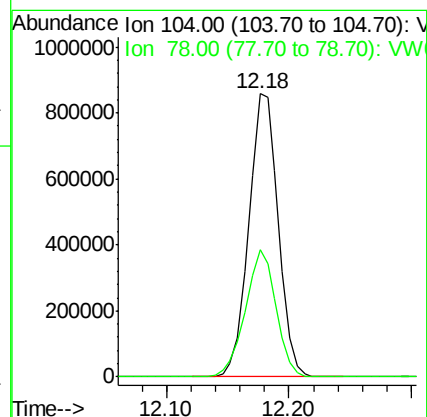
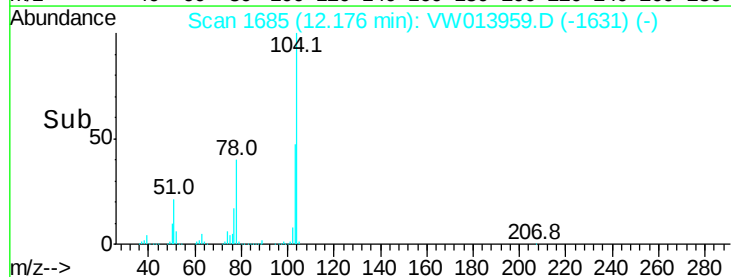
104 100

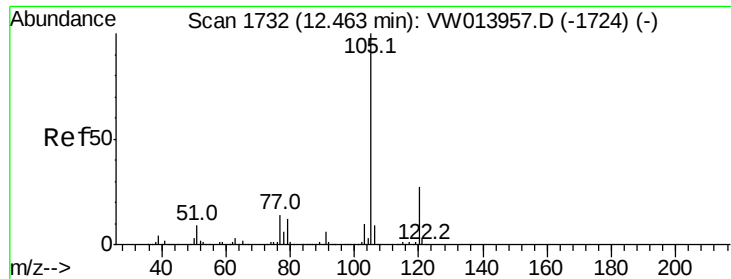
78 45.0 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 102.997 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10004

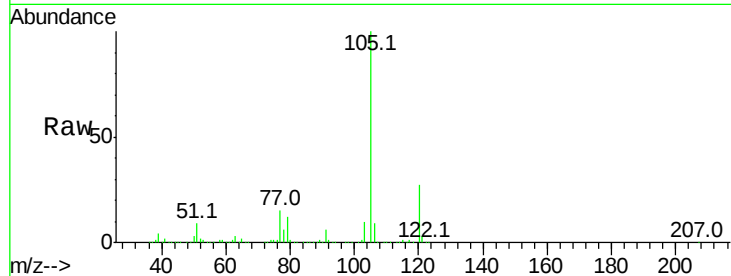
Tgt Ion:105 Resp: 2394830

Ion Ratio Lower Upper

105 100

120 26.9 21.6 32.4

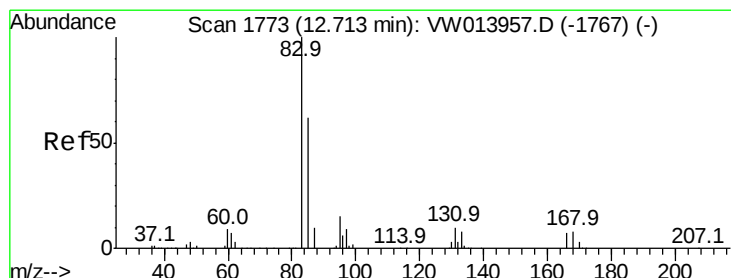
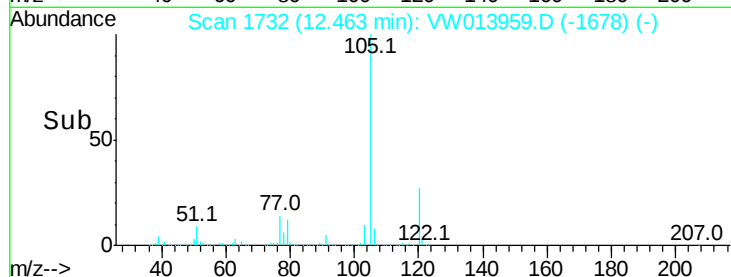
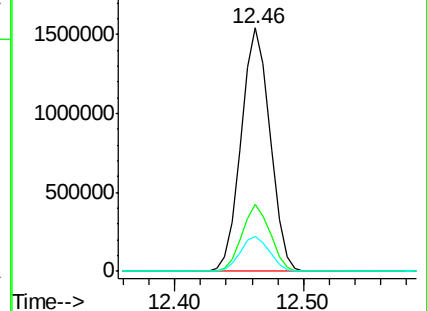
77 14.4 11.6 17.4



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: 66.590 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

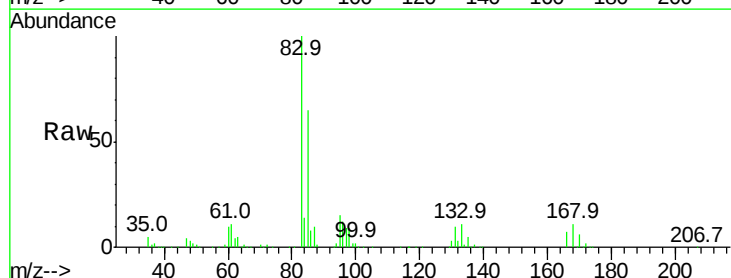
Tgt Ion: 83 Resp: 325266

Ion Ratio Lower Upper

83 100

85 65.2 43.7 81.1

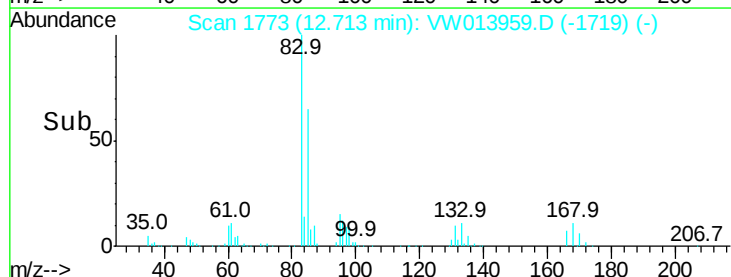
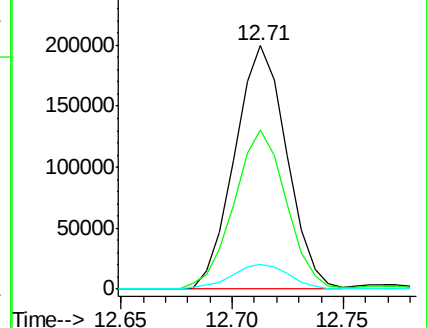
131 10.0 8.2 12.2

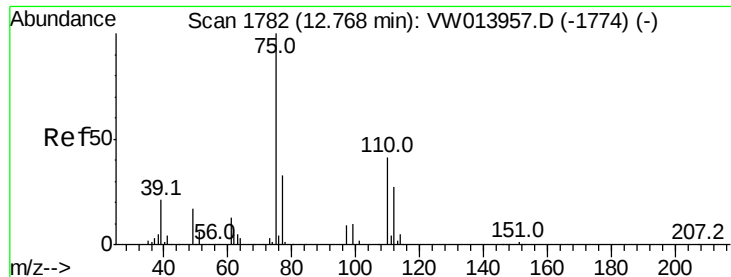


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 63.082 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

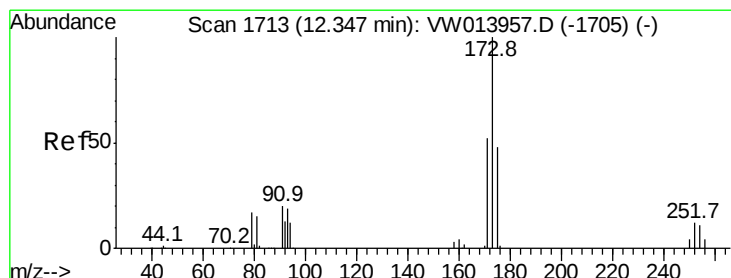
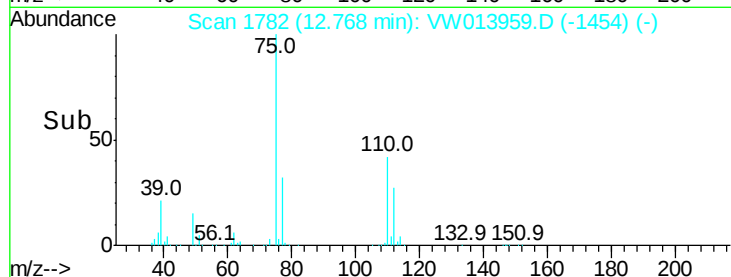
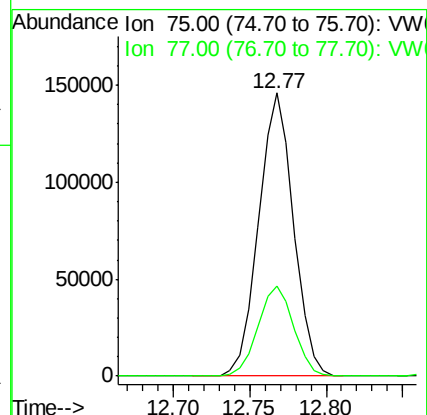
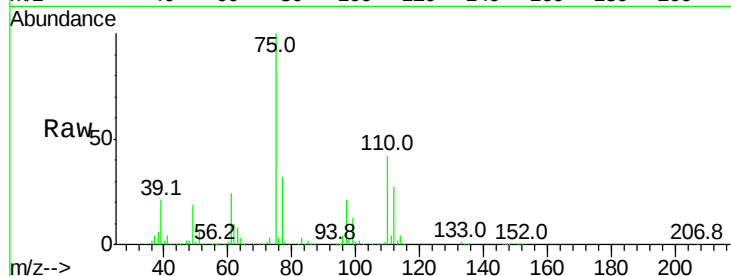
VSTD10004

Tgt Ion: 75 Resp: 231348

Ion Ratio Lower Upper

75 100

77 32.5 25.9 38.9



#62

Bromoform

Concen: 78.925 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

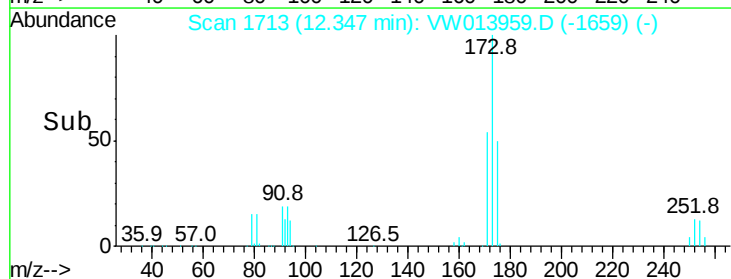
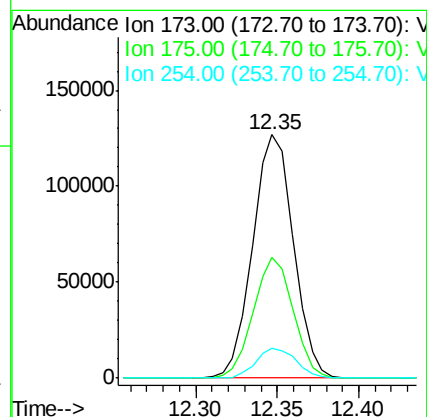
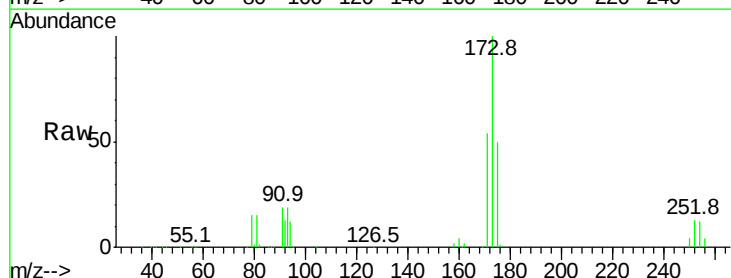
Tgt Ion: 173 Resp: 219937

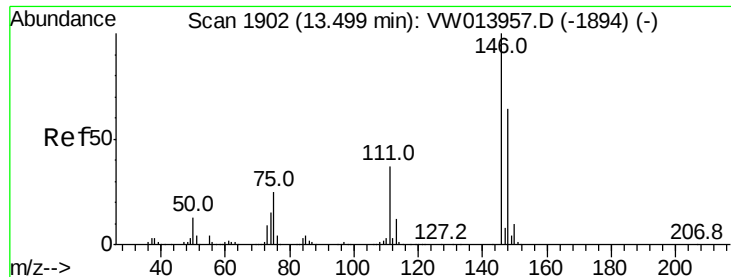
Ion Ratio Lower Upper

173 100

175 48.6 38.8 58.2

254 12.0 9.4 14.0

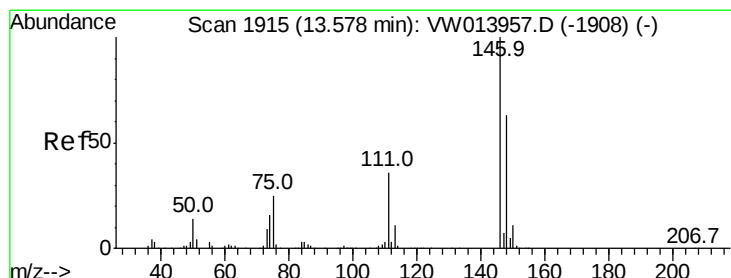
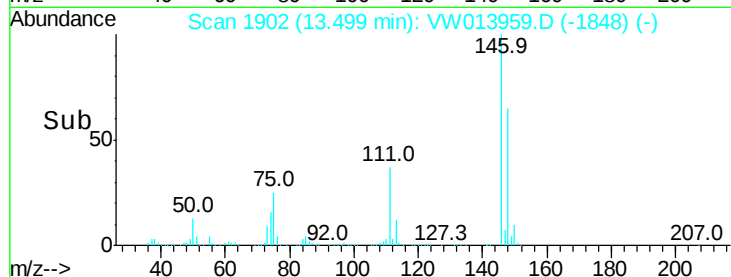
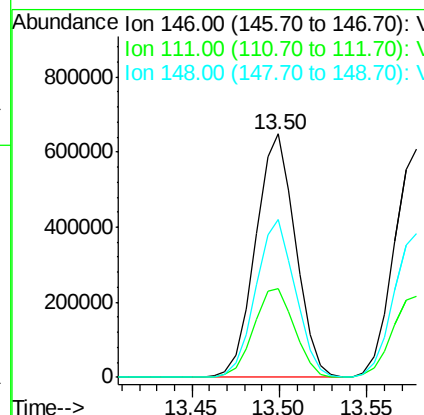
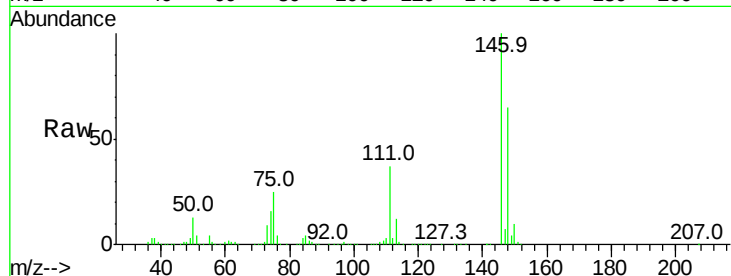




#63  
 1,3-Dichlorobenzene  
 Concen: 96.519 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW013959.D  
 Acq: 11 Nov 2019 12:38

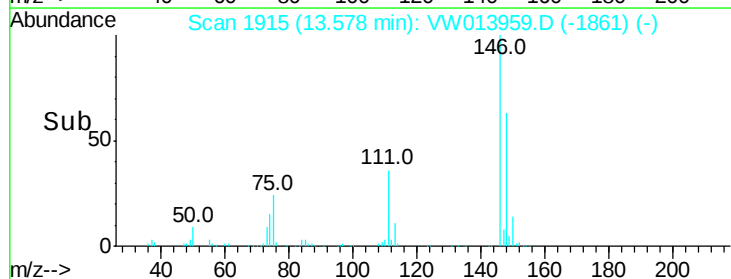
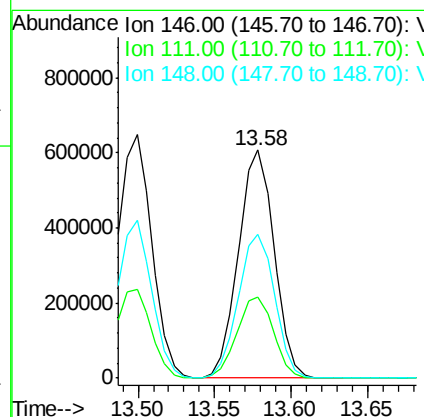
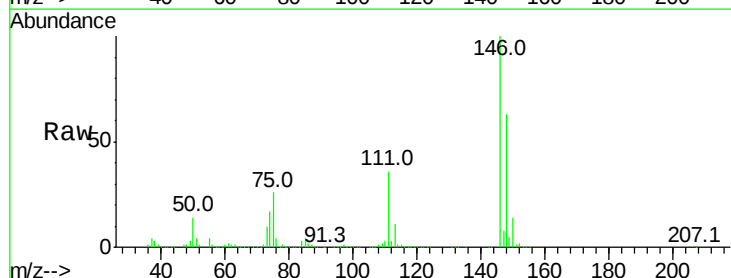
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD10004

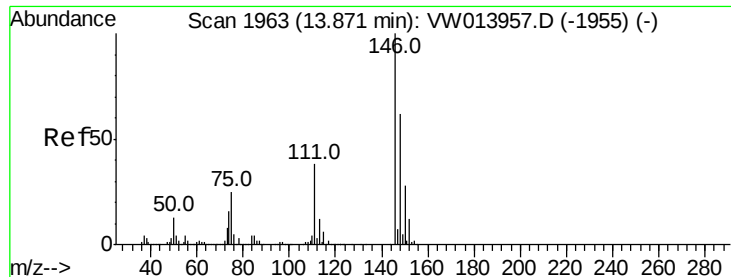
Tgt Ion:146 Resp: 1024453  
 Ion Ratio Lower Upper  
 146 100  
 111 36.6 26.0 48.2  
 148 64.8 44.7 82.9



#64  
 1,4-Dichlorobenzene  
 Concen: 92.760 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW013959.D  
 Acq: 11 Nov 2019 12:38

Tgt Ion:146 Resp: 986956  
 Ion Ratio Lower Upper  
 146 100  
 111 35.6 24.9 46.3  
 148 62.9 43.9 81.5

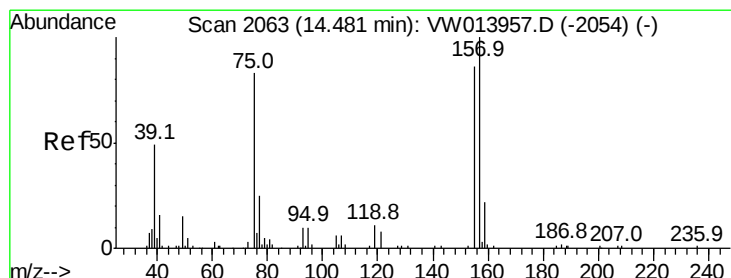
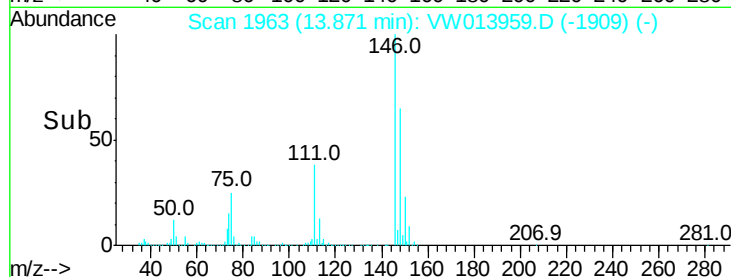
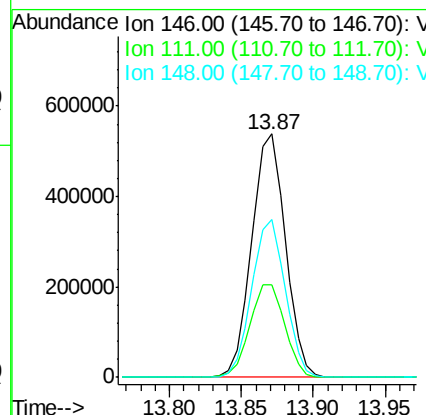
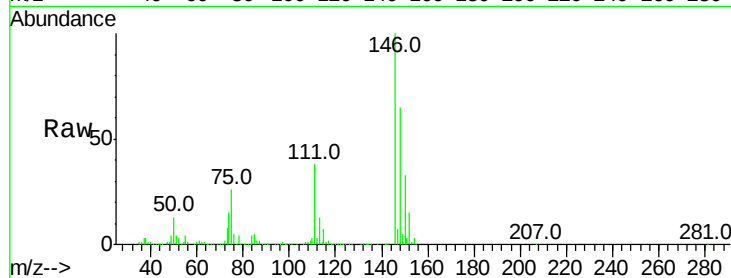




#65  
1,2-Dichlorobenzene  
Concen: 90.745 ug/L  
RT: 13.87 min Scan# 1963  
Delta R.T. 0.00 min  
Lab File: VW013959.D  
Acq: 11 Nov 2019 12:38

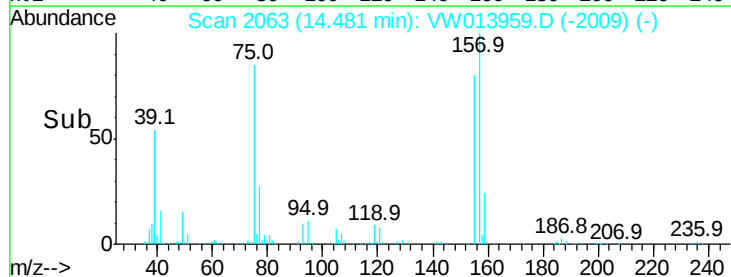
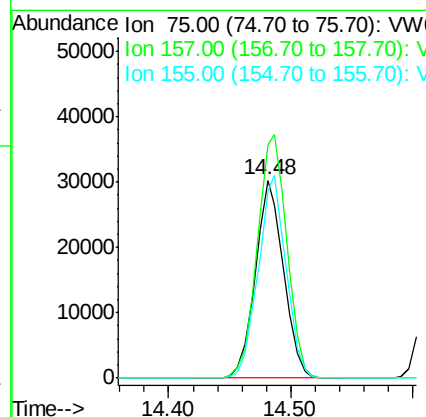
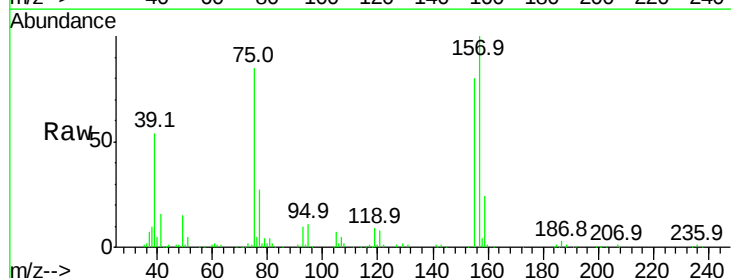
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD10004

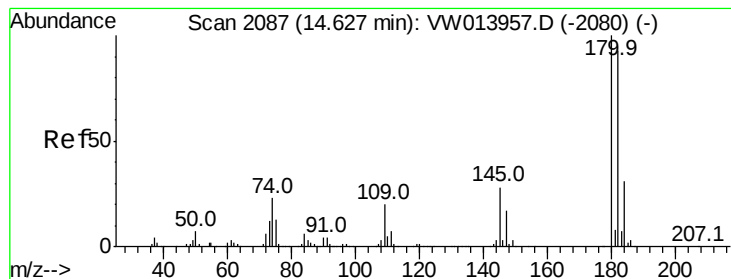
Tgt Ion:146 Resp: 870917  
Ion Ratio Lower Upper  
146 100  
111 37.8 30.5 45.7  
148 64.6 49.4 74.2



#66  
1,2-Dibromo-3-chloropropane  
Concen: 63.101 ug/L  
RT: 14.48 min Scan# 2063  
Delta R.T. 0.00 min  
Lab File: VW013959.D  
Acq: 11 Nov 2019 12:38

Tgt Ion: 75 Resp: 48513  
Ion Ratio Lower Upper  
75 100  
157 118.0 96.9 145.3  
155 94.5 82.9 124.3





#67

1,3,5-Trichlorobenzene

Concen: 99.291 ug/L

RT: 14.63 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10004

Tgt Ion:180 Resp: 793761

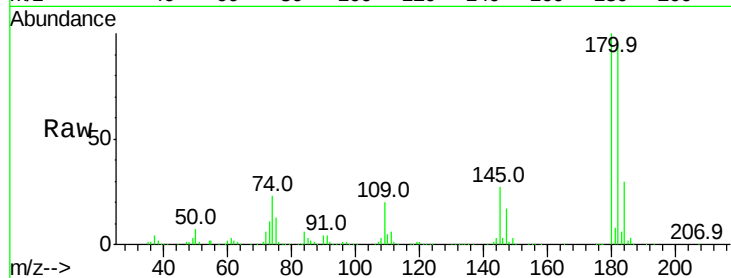
Ion Ratio Lower Upper

180 100

182 95.7 76.2 114.2

184 30.7 24.3 36.5

145 27.2 21.9 32.9

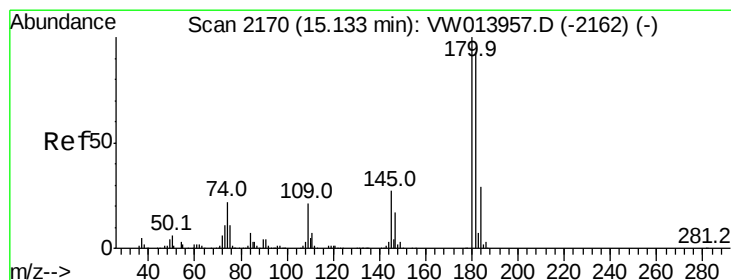
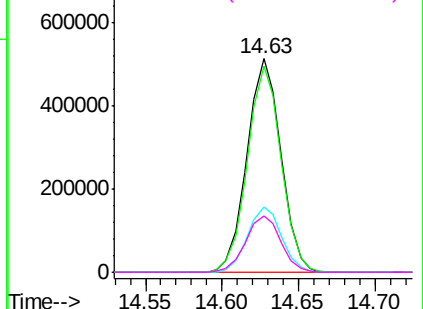
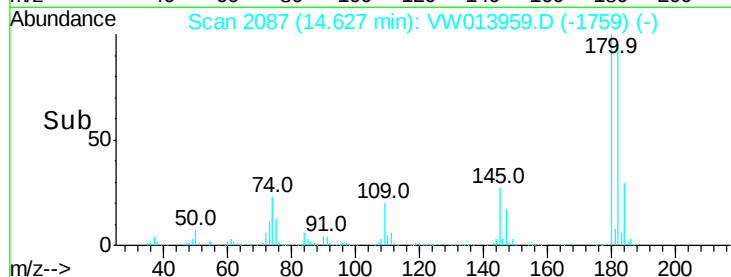


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68

1,2,4-trichlorobenzene

Concen: 94.438 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

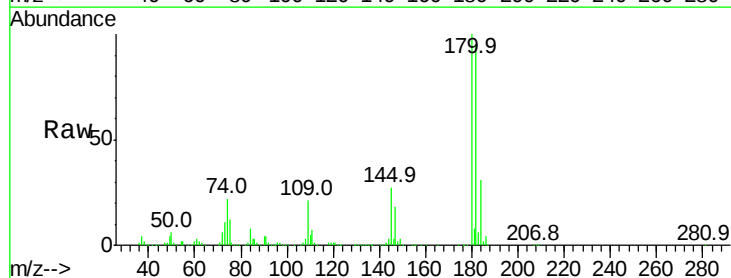
Tgt Ion:180 Resp: 611207

Ion Ratio Lower Upper

180 100

182 96.1 75.8 113.8

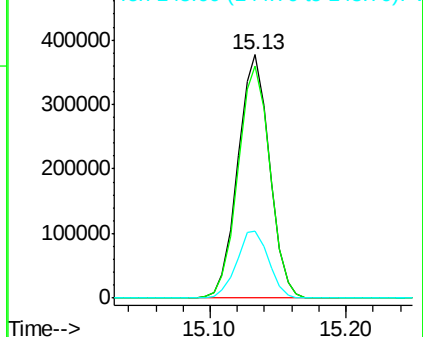
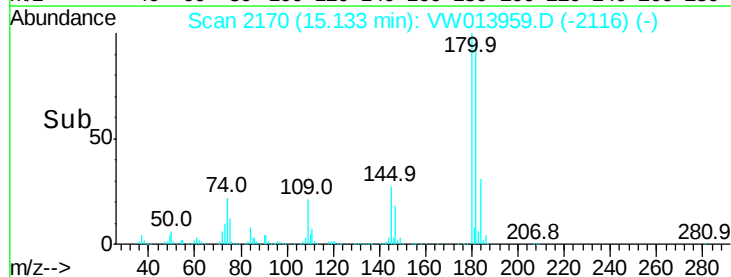
145 28.0 22.4 33.6

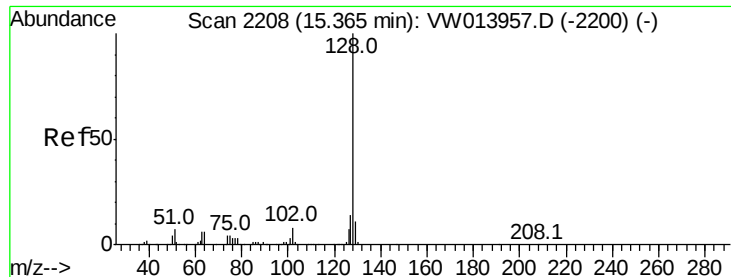


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 80.478 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

Instrument :

MSVOA\_W

ClientSampleId :

VSTD10004

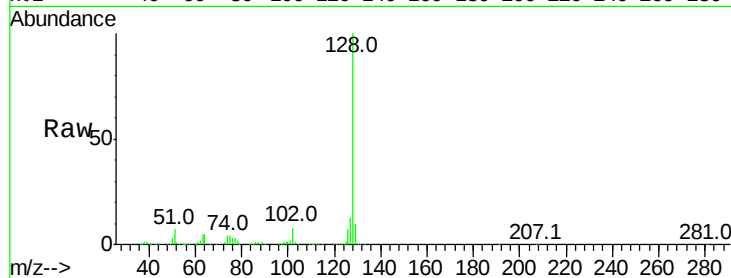
Tgt Ion:128 Resp: 988162

Ion Ratio Lower Upper

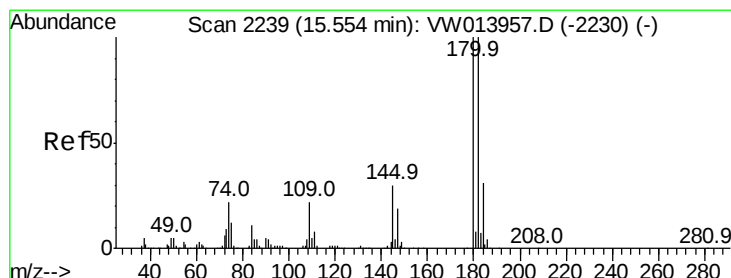
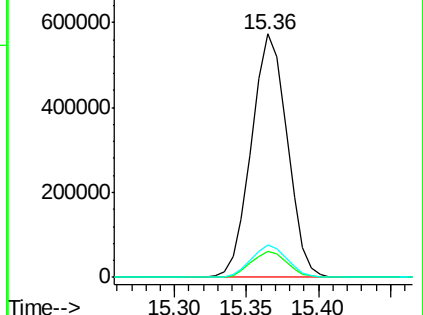
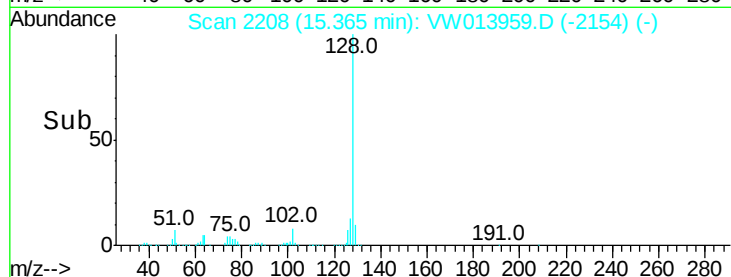
128 100

129 10.6 8.8 13.2

127 13.3 10.4 15.6



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: 86.688 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW013959.D

Acq: 11 Nov 2019 12:38

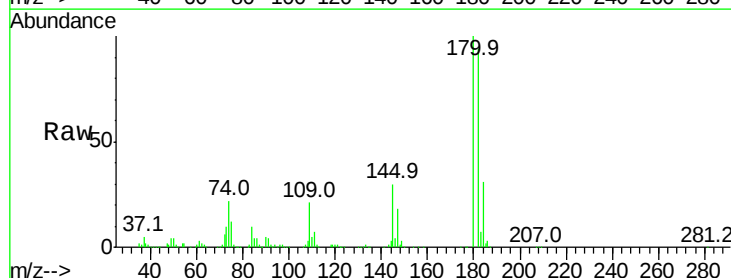
Tgt Ion:180 Resp: 517007

Ion Ratio Lower Upper

180 100

182 95.7 75.8 113.6

145 29.4 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

