

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW050523\  
 Data File : VW030999.D  
 Acq On : 05 May 2023 17:08  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005343

Quant Time: May 06 01:48:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR042823WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sat May 06 01:44:36 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.542  | 114   | 112706   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.793  | 117   | 100360   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.194 | 152   | 32827    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278  | 65    | 37305    | 4.017    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 80.400%  |
| 7) Chloroethane-d5            | 1.532  | 69    | 33366    | 4.405    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 88.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.060  | 65    | 20071    | 4.084    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 81.600%  |
| 20) 2-Butanone-d5             | 3.892  | 46    | 74882    | 45.475   | ug/L   | 0.06     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 90.960%  |
| 24) Chloroform-d              | 4.259  | 84    | 87483    | 4.741    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 94.800%  |
| 26) 1,2-Dichloroethane-d4     | 4.953  | 65    | 45371    | 4.836    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 96.800%  |
| 32) Benzene-d6                | 4.970  | 84    | 132182   | 4.493    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 89.800%  |
| 36) 1,2-Dichloropropane-d6    | 5.998  | 67    | 40176    | 4.697    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 94.000%  |
| 41) Toluene-d8                | 7.252  | 98    | 115564   | 4.125    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 82.600%  |
| 43) trans-1,3-Dichloroprop... | 7.561  | 79    | 17009    | 5.304    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 106.000% |
| 46) 2-Hexanone-d5             | 8.040  | 63    | 63992    | 56.961   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 113.920% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159 | 84    | 34746    | 5.604    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 112.000% |
| 66) 1,2-Dichlorobenzene-d4    | 11.571 | 152   | 27050    | 4.421    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 88.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.108  | 85    | 42784    | 4.805    | ug/L   | 98       |
| 3) Chloromethane              | 1.217  | 50    | 48814    | 4.672    | ug/L   | 99       |
| 5) Vinyl chloride             | 1.282  | 62    | 46713    | 5.342    | ug/L   | 100      |
| 6) Bromomethane               | 1.487  | 94    | 20472    | 4.915    | ug/L   | 94       |
| 8) Chloroethane               | 1.552  | 64    | 27833    | 5.229    | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 1.712  | 101   | 85330    | 5.289    | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.066  | 101   | 44161    | 5.362    | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.069  | 96    | 39102    | 5.155    | ug/L   | 92       |
| 13) Acetone                   | 2.140  | 43    | 4113     | 2.924    | ug/L   | 71       |
| 14) Carbon disulfide          | 2.240  | 76    | 84117    | 4.238    | ug/L   | 97       |
| 15) Methyl Acetate            | 2.410  | 43    | 15517    | 5.422    | ug/L # | 60       |
| 16) Methylene chloride        | 2.452  | 84    | 40147    | 4.679    | ug/L   | 94       |
| 17) Methyl tert-butyl Ether   | 2.719  | 73    | 82617    | 5.722    | ug/L   | 95       |
| 18) trans-1,2-Dichloroethene  | 2.696  | 96    | 33146    | 4.784    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.118  | 63    | 69981    | 5.231    | ug/L   | 97       |
| 21) 2-Butanone                | 3.941  | 43    | 17688    | 11.434   | ug/L # | 67       |
| 22) cis-1,2-Dichloroethene    | 3.828  | 96    | 35754    | 4.891    | ug/L   | 94       |
| 23) Bromochloromethane        | 4.163  | 128   | 19253    | 5.594    | ug/L   | 95       |
| 25) Chloroform                | 4.285  | 83    | 79437    | 5.534    | ug/L   | 98       |

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 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 11 Sample Multiplier: 1

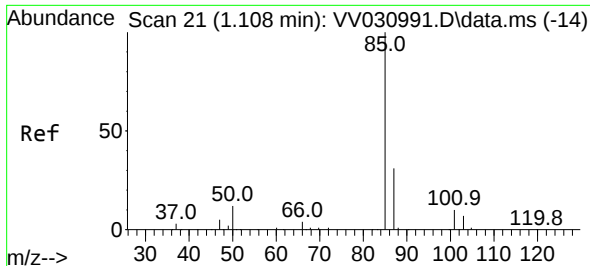
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005343

Quant Time: May 06 01:48:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR042823WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sat May 06 01:44:36 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.053  | 62   | 51717    | 5.741  | ug/L   | 97       |
| 29) 1,1,1-Trichloroethane     | 4.519  | 97   | 72858    | 5.777  | ug/L   | 98       |
| 30) Cyclohexane               | 4.587  | 56   | 46250    | 4.856  | ug/L   | 99       |
| 31) Carbon tetrachloride      | 4.741  | 117  | 65117    | 5.749  | ug/L   | 99       |
| 33) Benzene                   | 5.018  | 78   | 139638   | 5.531  | ug/L   | 100      |
| 34) Trichloroethene           | 5.841  | 95   | 36154    | 5.373  | ug/L   | 95       |
| 35) Methylcyclohexane         | 6.060  | 83   | 44011    | 4.220  | ug/L   | 96       |
| 37) 1,2-Dichloropropane       | 6.105  | 63   | 34711    | 5.797  | ug/L # | 96       |
| 38) Bromodichloromethane      | 6.442  | 83   | 52688    | 6.012  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 6.963  | 75   | 47958    | 5.347  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 7.175  | 43   | 199526   | 64.312 | ug/L   | 99       |
| 42) Toluene                   | 7.323  | 91   | 142387   | 5.239  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 7.590  | 75   | 44920    | 5.878  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 7.777  | 97   | 27488    | 6.187  | ug/L   | 96       |
| 47) Tetrachloroethene         | 7.915  | 164  | 32901    | 5.125  | ug/L   | 96       |
| 48) 2-Hexanone                | 8.092  | 43   | 150714   | 63.337 | ug/L   | 97       |
| 49) Dibromochloromethane      | 8.185  | 129  | 36019    | 6.444  | ug/L   | 99       |
| 50) 1,2-Dibromoethane         | 8.291  | 107  | 25580    | 6.455  | ug/L # | 99       |
| 51) Chlorobenzene             | 8.822  | 112  | 88195    | 4.786  | ug/L   | 98       |
| 52) Ethylbenzene              | 8.953  | 91   | 128755   | 4.345  | ug/L   | 96       |
| 53) m,p-Xylene                | 9.079  | 106  | 44931    | 3.800  | ug/L   | 99       |
| 54) o-Xylene                  | 9.484  | 106  | 42472    | 3.774  | ug/L   | 97       |
| 55) Styrene                   | 9.503  | 104  | 64739    | 3.409  | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.188 | 83   | 30087    | 6.058  | ug/L   | 99       |
| 59) Bromoform                 | 9.674  | 173  | 21564    | 11.160 | ug/L   | 100      |
| 60) Isopropylbenzene          | 9.876  | 105  | 104918   | 5.928  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.217 | 75   | 21275    | 10.317 | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 61404    | 4.262  | ug/L   | 97       |
| 63) 1,2,4-Trimethylbenzene    | 10.860 | 105  | 51803    | 3.548  | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.127 | 146  | 41676    | 4.585  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.217 | 146  | 40558    | 4.423  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 11.587 | 146  | 36512    | 4.467  | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.371 | 75   | 3886     | 7.424  | ug/L # | 87       |
| 69) 1,3,5-Trichlorobenzene    | 12.590 | 180  | 13854    | 1.925  | ug/L   | 96       |
| 70) 1,2,4-trichlorobenzene    | 13.207 | 180  | 7832     | 1.416  | ug/L   | 98       |
| 71) Naphthalene               | 13.452 | 128  | 6395     | 0.806  | ug/L # | 93       |
| 72) 1,2,3-Trichlorobenzene    | 13.689 | 180  | 6254     | 1.336  | ug/L   | 97       |

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

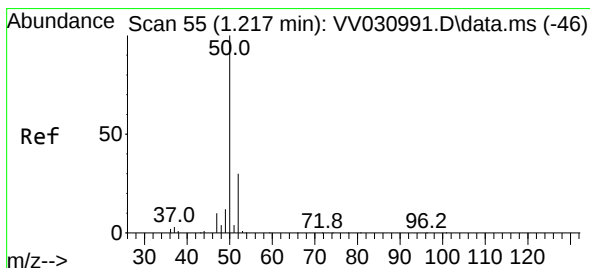
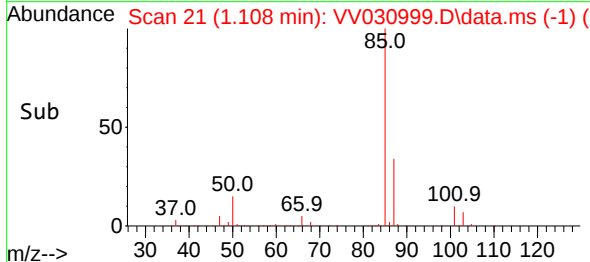
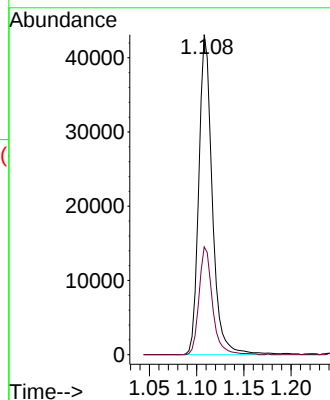
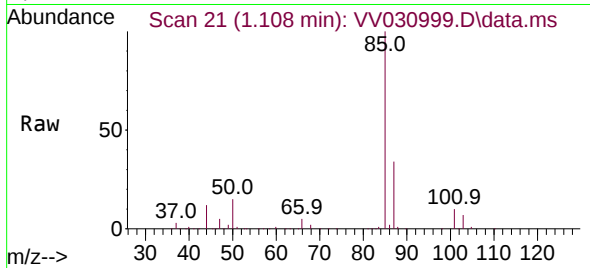




#2  
 Dichlorodifluoromethane  
 Concen: 4.805 ug/L  
 RT: 1.108 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VV030999.D  
 Acq: 05 May 2023 17:08

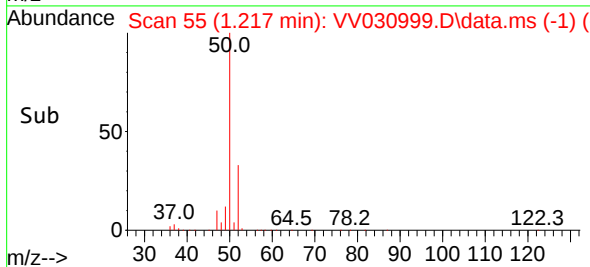
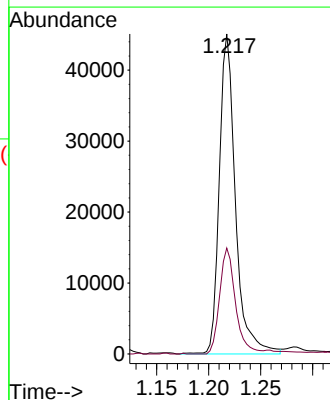
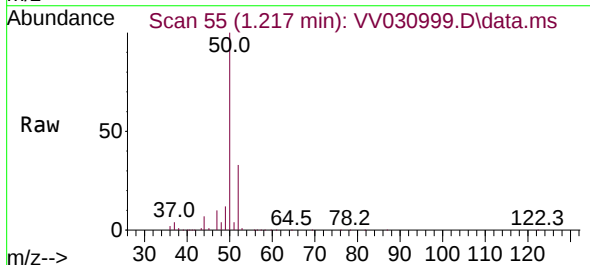
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005343

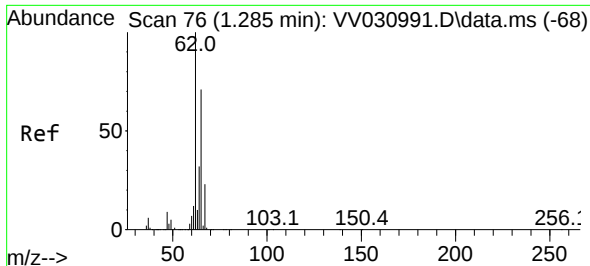
Tgt Ion: 85 Resp: 42784  
 Ion Ratio Lower Upper  
 85 100  
 87 33.5 25.8 38.6



#3  
 Chloromethane  
 Concen: 4.672 ug/L  
 RT: 1.217 min Scan# 55  
 Delta R.T. 0.000 min  
 Lab File: VV030999.D  
 Acq: 05 May 2023 17:08

Tgt Ion: 50 Resp: 48814  
 Ion Ratio Lower Upper  
 50 100  
 52 33.1 22.8 42.4

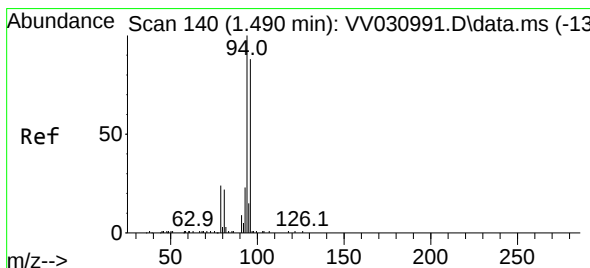
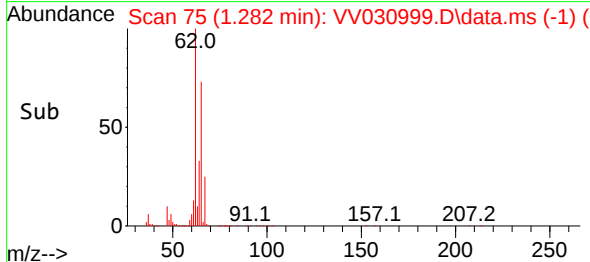
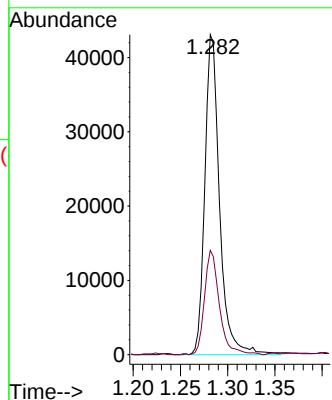
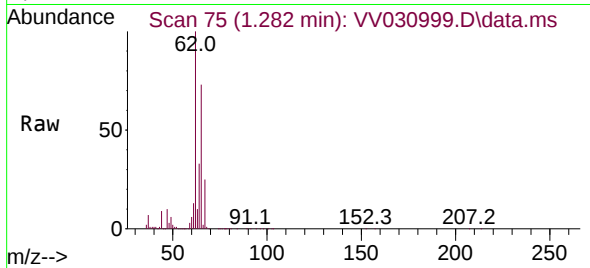




#5  
 Vinyl chloride  
 Concen: 5.342 ug/L  
 RT: 1.282 min Scan# 71  
 Delta R.T. -0.003 min  
 Lab File: VV030999.D  
 Acq: 05 May 2023 17:08

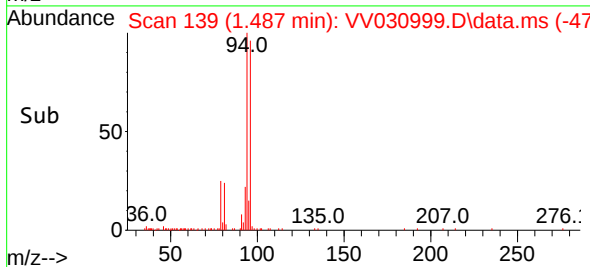
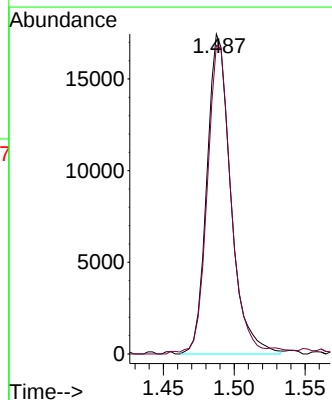
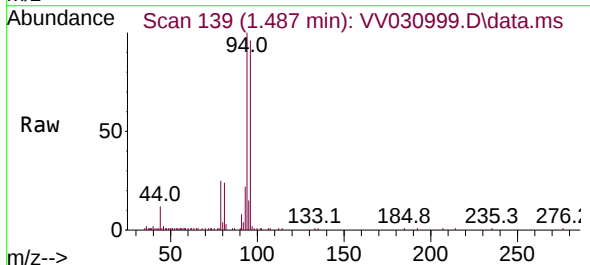
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005343

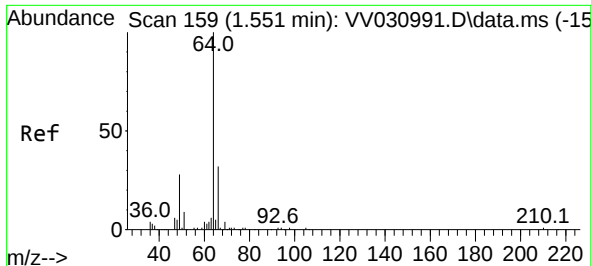
Tgt Ion: 62 Resp: 46713  
 Ion Ratio Lower Upper  
 62 100  
 64 32.6 22.8 42.4



#6  
 Bromomethane  
 Concen: 4.915 ug/L  
 RT: 1.487 min Scan# 139  
 Delta R.T. -0.003 min  
 Lab File: VV030999.D  
 Acq: 05 May 2023 17:08

Tgt Ion: 94 Resp: 20472  
 Ion Ratio Lower Upper  
 94 100  
 96 96.5 63.4 117.8

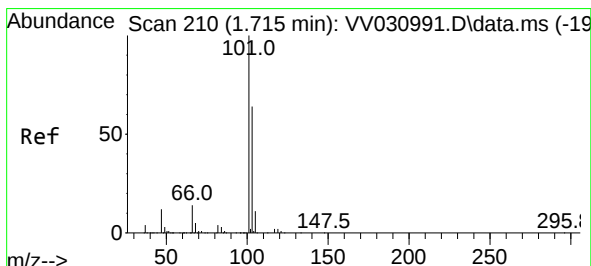
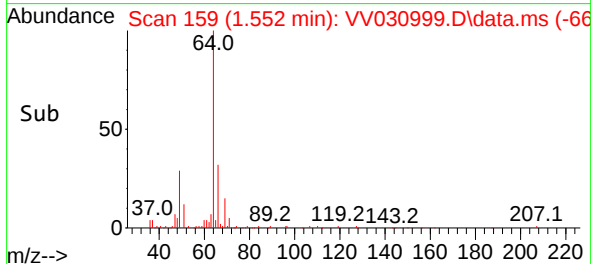
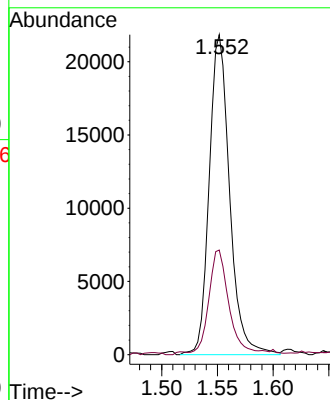
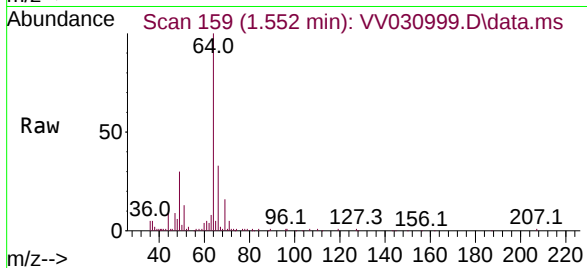




#8  
Chloroethane  
Concen: 5.229 ug/L  
RT: 1.552 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

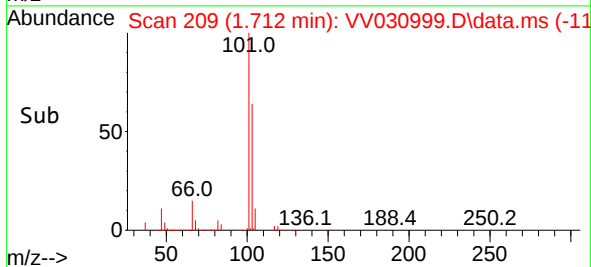
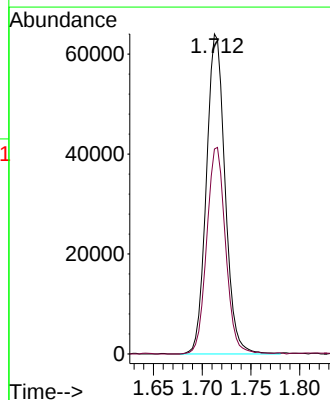
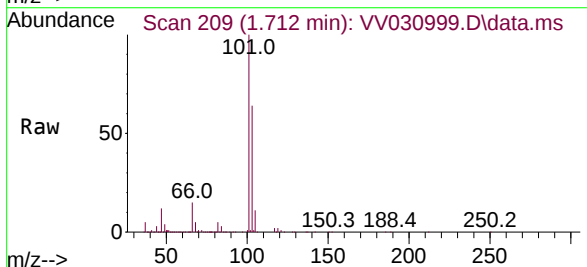
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005343

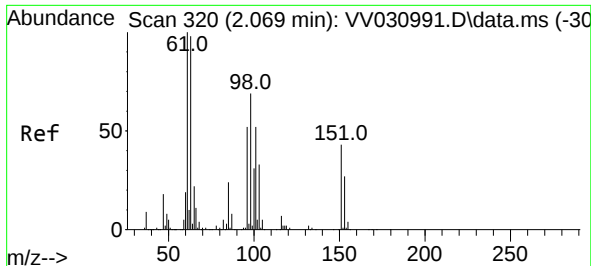
Tgt Ion: 64 Resp: 27833  
Ion Ratio Lower Upper  
64 100  
66 32.7 22.1 41.1



#9  
Trichlorofluoromethane  
Concen: 5.289 ug/L  
RT: 1.712 min Scan# 209  
Delta R.T. -0.003 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

Tgt Ion: 101 Resp: 85330  
Ion Ratio Lower Upper  
101 100  
103 65.1 51.8 77.8





#10

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

Concen: 5.362 ug/L

RT: 2.066 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005343

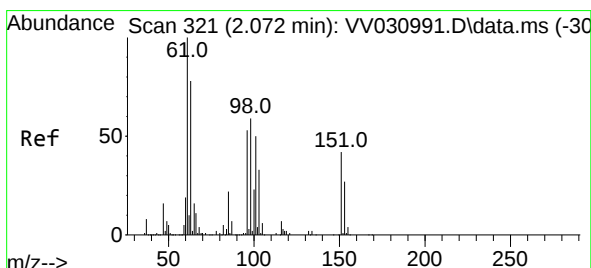
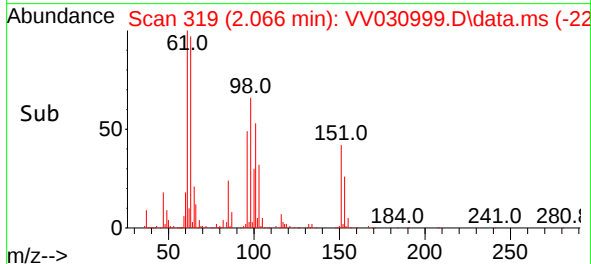
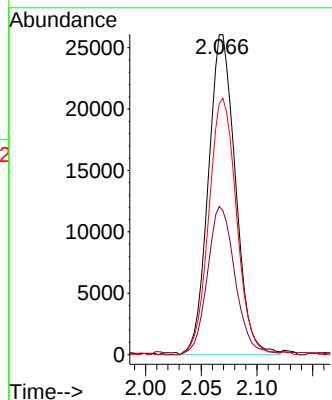
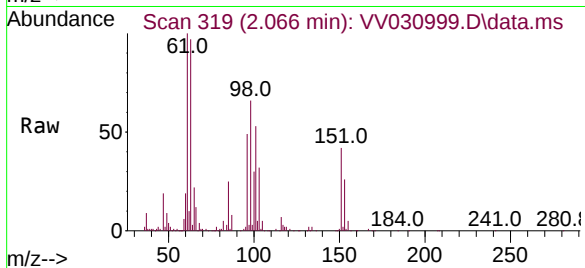
Tgt Ion:101 Resp: 44161

Ion Ratio Lower Upper

101 100

85 47.2 38.7 58.1

151 81.9 65.1 97.7



#12

1,1-Dichloroethene

Concen: 5.155 ug/L

RT: 2.069 min Scan# 320

Delta R.T. -0.003 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

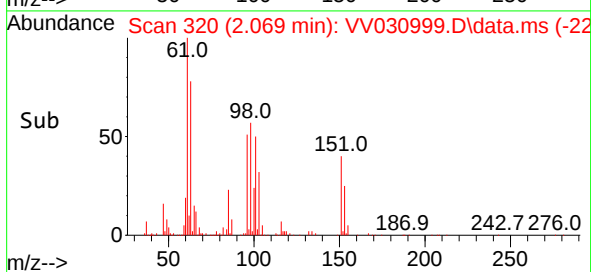
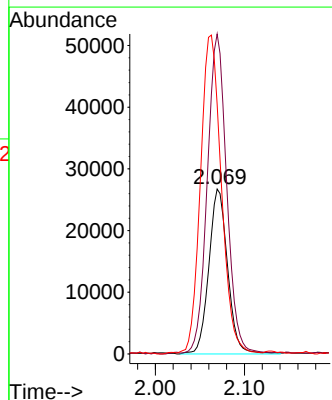
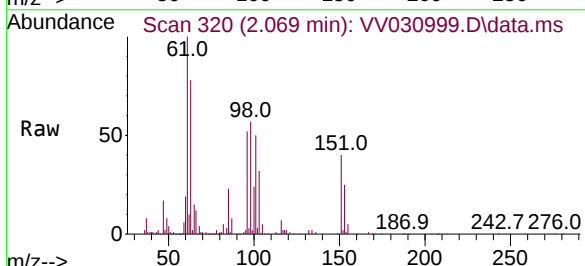
Tgt Ion: 96 Resp: 39102

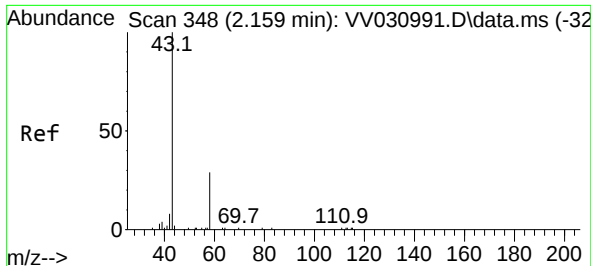
Ion Ratio Lower Upper

96 100

61 193.9 135.6 251.8

63 151.1 121.1 224.9





#13

Acetone

Concen: 2.924 ug/L

RT: 2.140 min Scan# 34

Delta R.T. -0.019 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

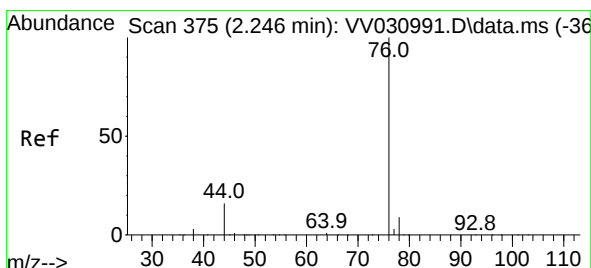
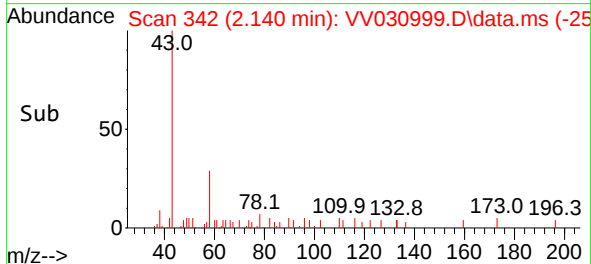
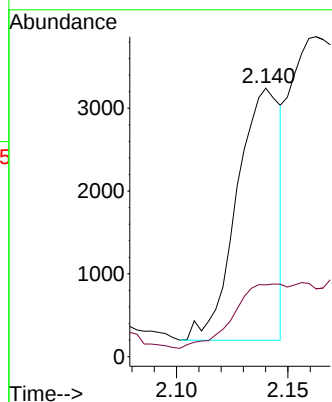
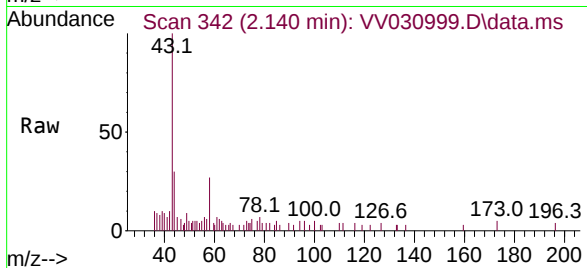
VSTD005343

Tgt Ion: 43 Resp: 4113

Ion Ratio Lower Upper

43 100

58 31.4 0.0 37.0



#14

Carbon disulfide

Concen: 4.238 ug/L

RT: 2.240 min Scan# 373

Delta R.T. -0.006 min

Lab File: VV030999.D

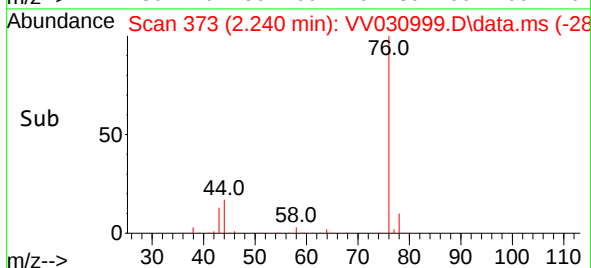
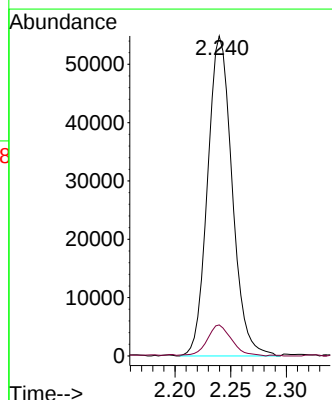
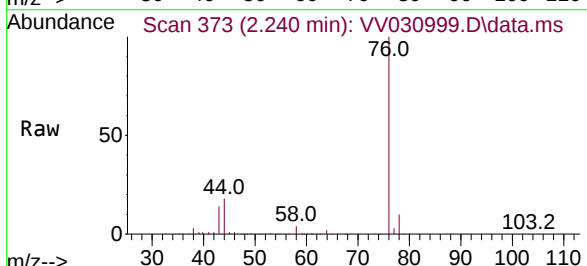
Acq: 05 May 2023 17:08

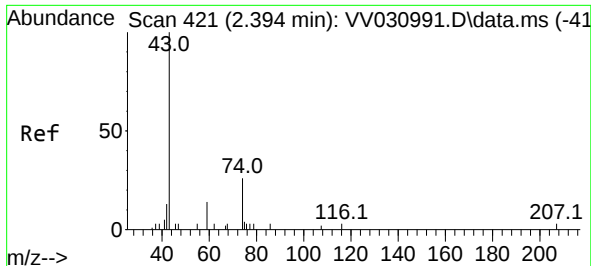
Tgt Ion: 76 Resp: 84117

Ion Ratio Lower Upper

76 100

78 9.7 6.8 10.2

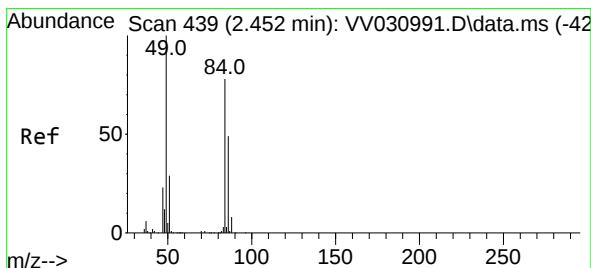
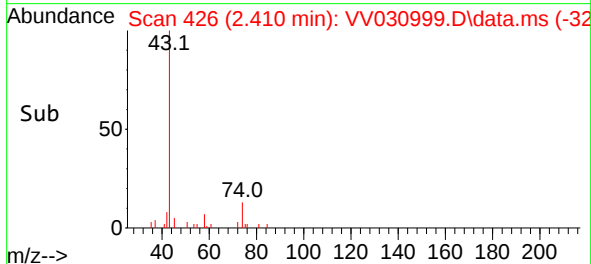
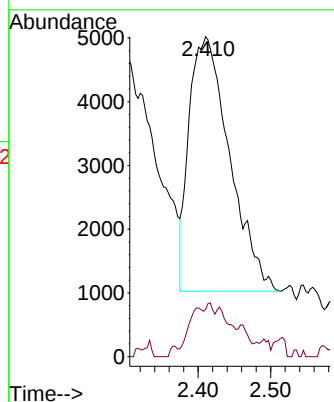
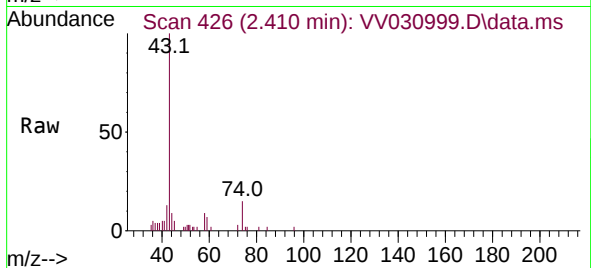




#15  
Methyl Acetate  
Concen: 5.422 ug/L  
RT: 2.410 min Scan# 41  
Delta R.T. 0.016 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

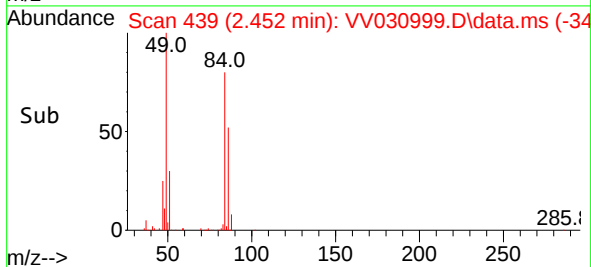
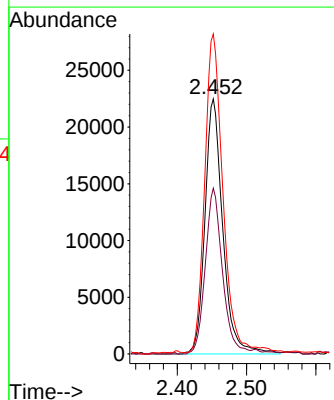
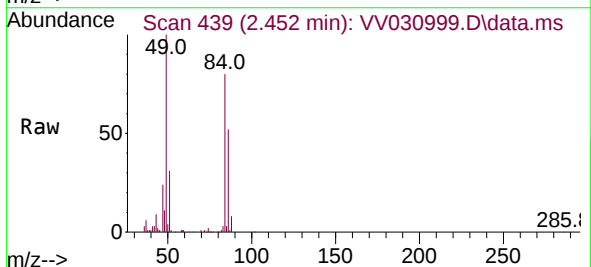
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005343

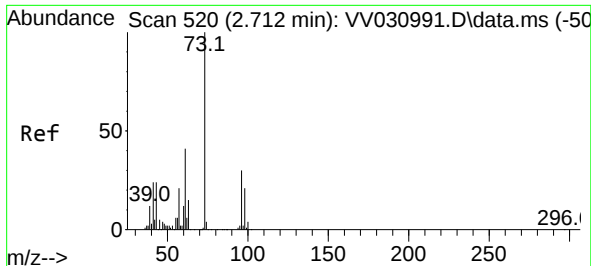
Tgt Ion: 43 Resp: 15517  
Ion Ratio Lower Upper  
43 100  
74 0.9 15.0 22.6#



#16  
Methylene chloride  
Concen: 4.679 ug/L  
RT: 2.452 min Scan# 439  
Delta R.T. 0.000 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

Tgt Ion: 84 Resp: 40147  
Ion Ratio Lower Upper  
84 100  
86 65.0 46.1 85.5  
49 125.5 94.3 175.1

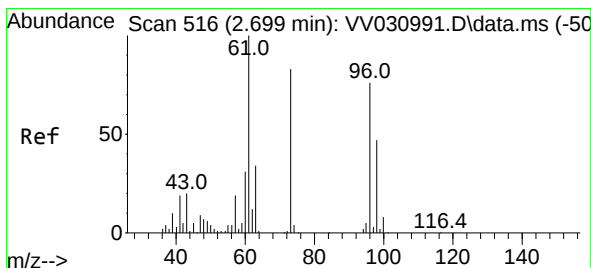
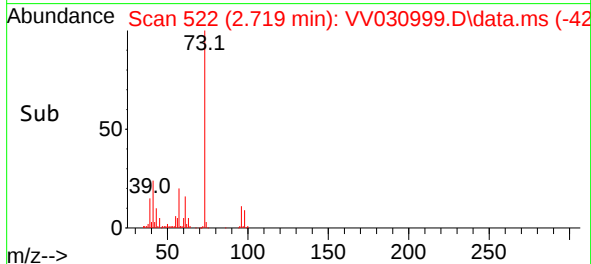
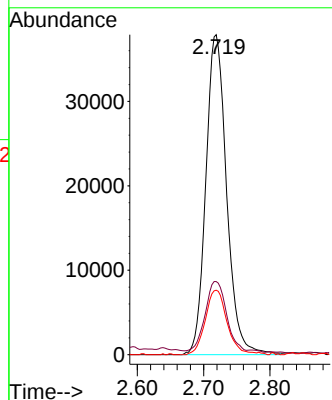
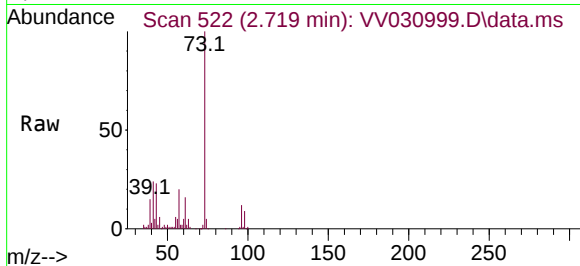




#17  
Methyl tert-butyl Ether  
Concen: 5.722 ug/L  
RT: 2.719 min Scan# 51  
Delta R.T. 0.007 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

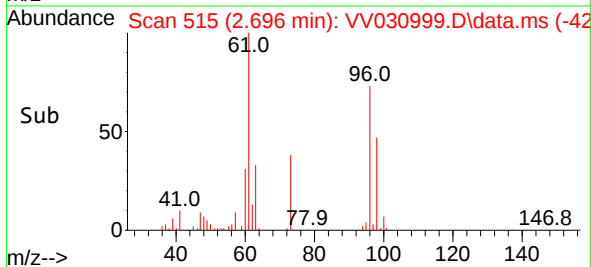
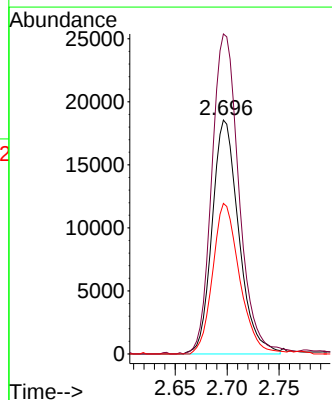
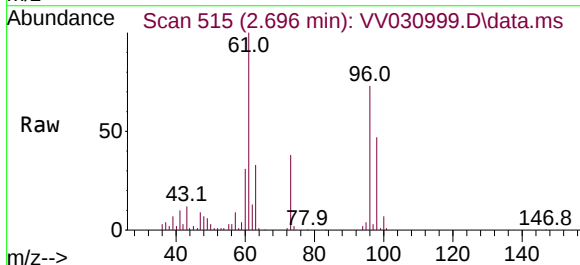
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005343

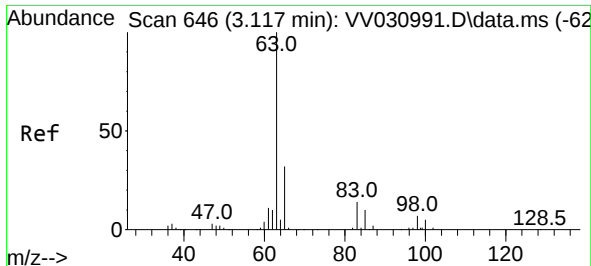
Tgt Ion: 73 Resp: 82617  
Ion Ratio Lower Upper  
73 100  
43 21.8 19.9 29.9  
57 21.3 18.2 27.4



#18  
trans-1,2-Dichloroethene  
Concen: 4.784 ug/L  
RT: 2.696 min Scan# 515  
Delta R.T. -0.003 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

Tgt Ion: 96 Resp: 33146  
Ion Ratio Lower Upper  
96 100  
61 136.8 98.9 183.7  
98 64.4 46.0 85.4





#19

1,1-Dichloroethane

Concen: 5.231 ug/L

RT: 3.118 min Scan# 64

Delta R.T. 0.000 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005343

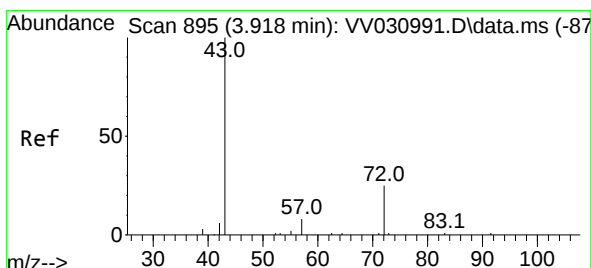
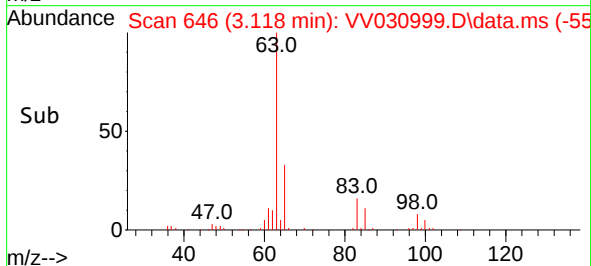
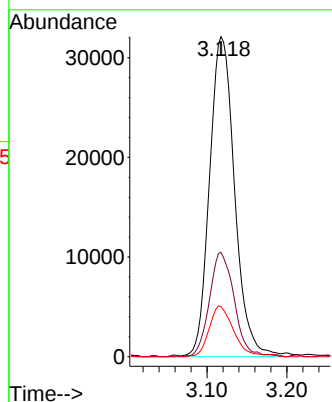
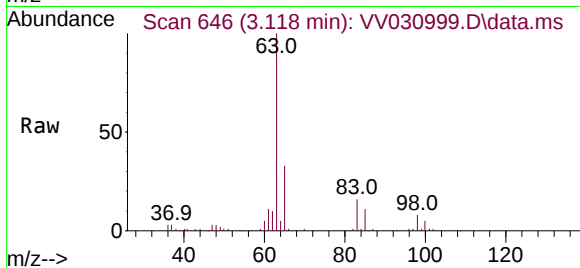
Tgt Ion: 63 Resp: 69981

Ion Ratio Lower Upper

63 100

65 32.6 21.8 40.6

83 15.6 10.2 19.0



#21

2-Butanone

Concen: 11.434 ug/L

RT: 3.941 min Scan# 902

Delta R.T. 0.023 min

Lab File: VV030999.D

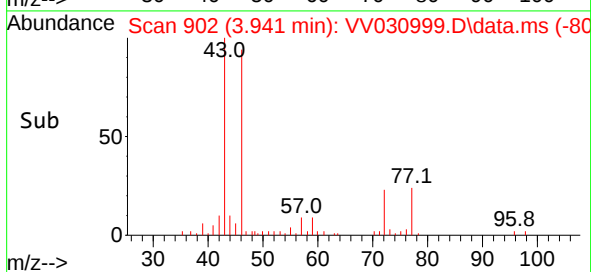
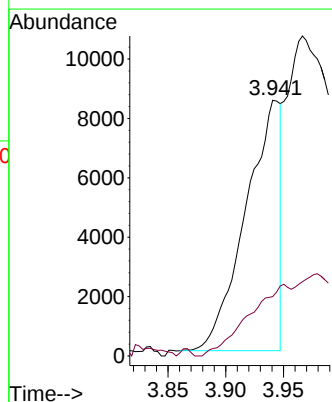
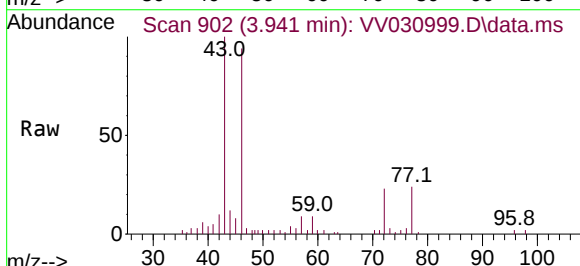
Acq: 05 May 2023 17:08

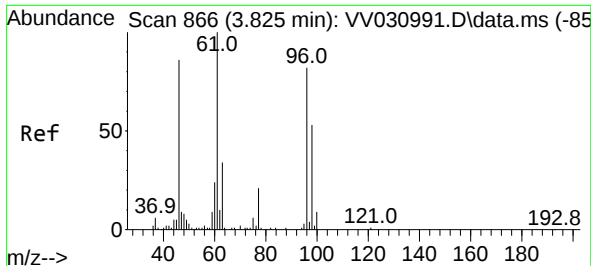
Tgt Ion: 43 Resp: 17688

Ion Ratio Lower Upper

43 100

72 34.2 9.6 28.6#

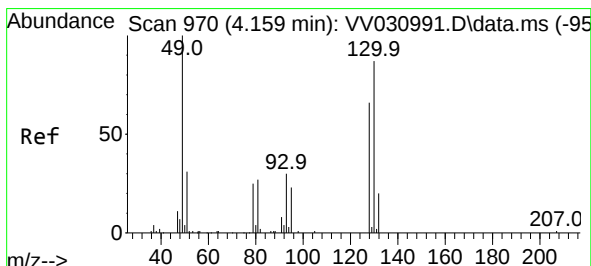
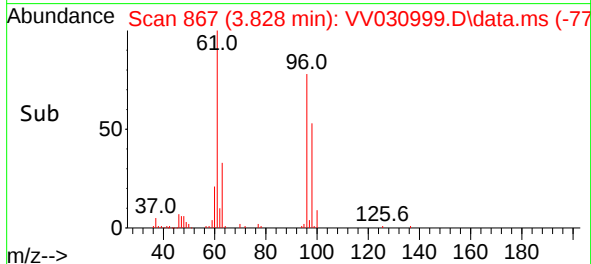
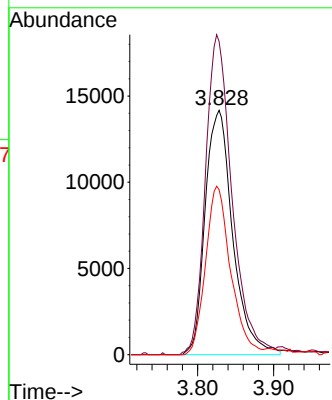
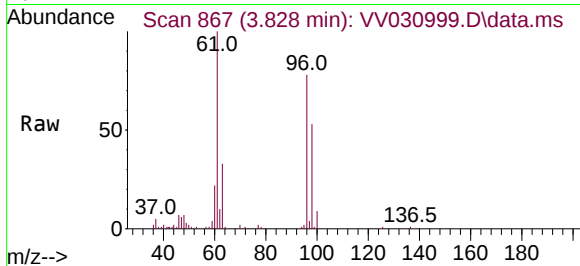




#22  
 cis-1,2-Dichloroethene  
 Concen: 4.891 ug/L  
 RT: 3.828 min Scan# 866  
 Delta R.T. 0.003 min  
 Lab File: VV030999.D  
 Acq: 05 May 2023 17:08

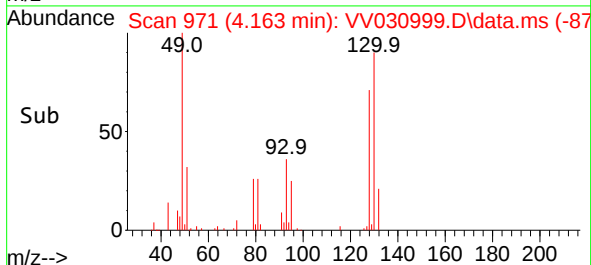
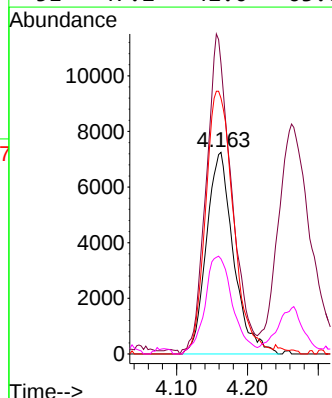
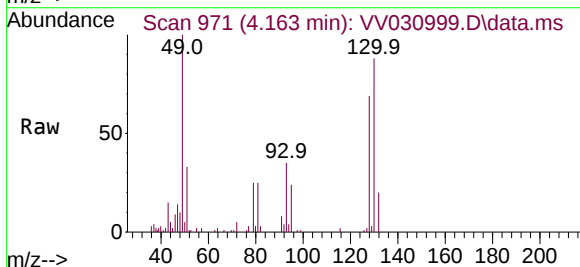
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005343

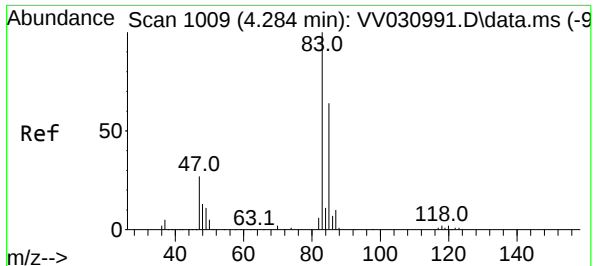
Tgt Ion: 96 Resp: 35754  
 Ion Ratio Lower Upper  
 96 100  
 61 128.2 86.0 159.6  
 98 67.5 43.2 80.2



#23  
 Bromochloromethane  
 Concen: 5.594 ug/L  
 RT: 4.163 min Scan# 971  
 Delta R.T. 0.003 min  
 Lab File: VV030999.D  
 Acq: 05 May 2023 17:08

Tgt Ion: 128 Resp: 19253  
 Ion Ratio Lower Upper  
 128 100  
 49 144.0 104.7 194.5  
 130 126.8 93.4 173.4  
 51 47.2 42.0 63.0





#25

Chloroform

Concen: 5.534 ug/L

RT: 4.285 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

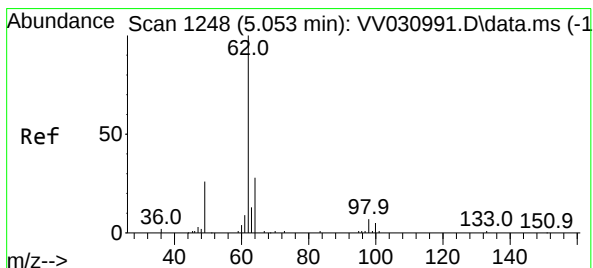
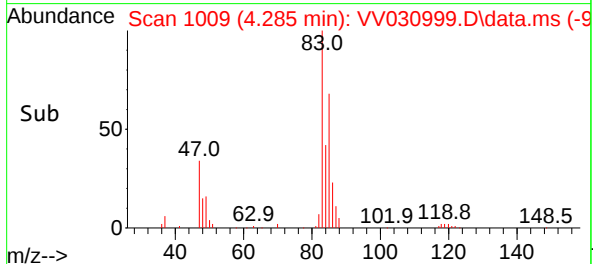
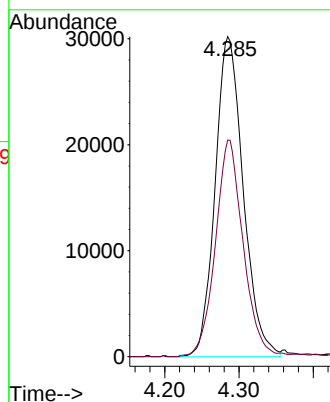
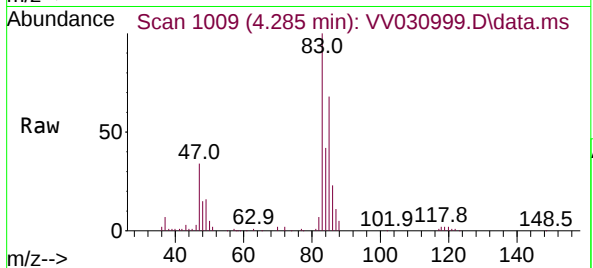
VSTD005343

Tgt Ion: 83 Resp: 79437

Ion Ratio Lower Upper

83 100

85 67.7 46.4 86.2



#27

1,2-Dichloroethane

Concen: 5.741 ug/L

RT: 5.053 min Scan# 1248

Delta R.T. 0.000 min

Lab File: VV030999.D

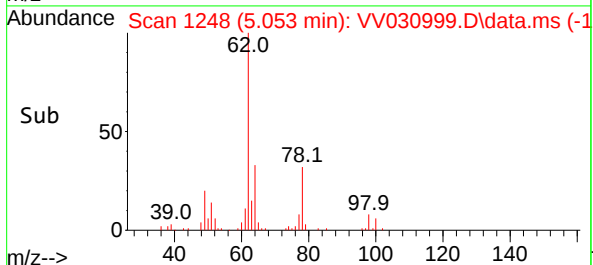
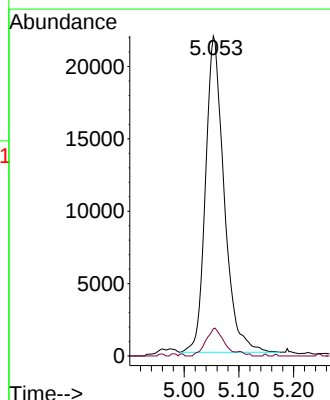
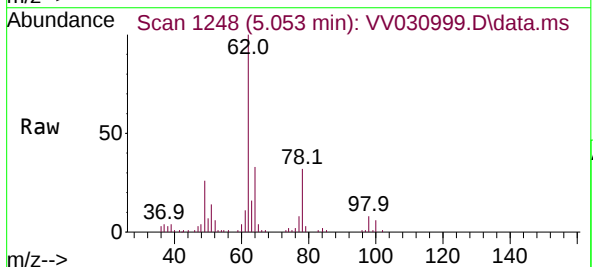
Acq: 05 May 2023 17:08

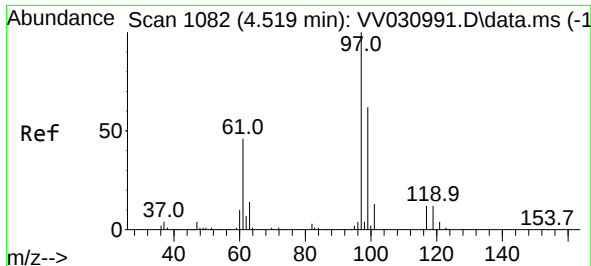
Tgt Ion: 62 Resp: 51717

Ion Ratio Lower Upper

62 100

98 8.5 6.0 9.0





#29

1,1,1-Trichloroethane

Concen: 5.777 ug/L

RT: 4.519 min Scan# 1103

Delta R.T. 0.000 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005343

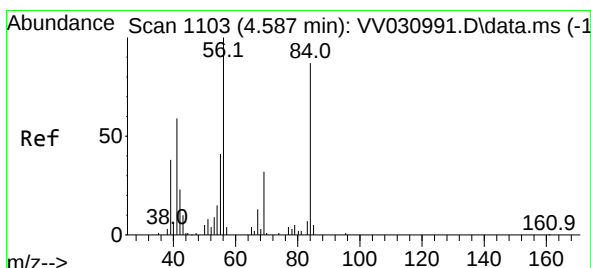
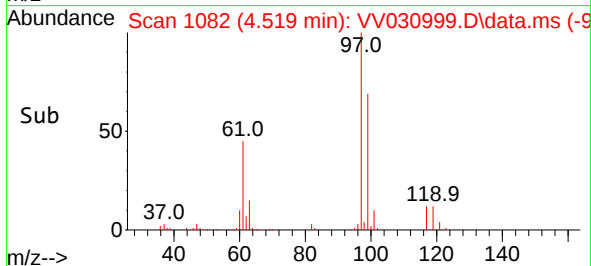
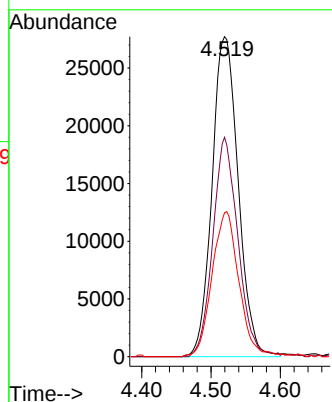
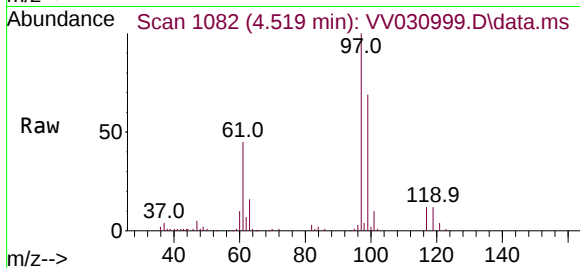
Tgt Ion: 97 Resp: 72858

Ion Ratio Lower Upper

97 100

99 65.9 51.4 77.2

61 45.8 37.4 56.0



#30

Cyclohexane

Concen: 4.856 ug/L

RT: 4.587 min Scan# 1103

Delta R.T. 0.000 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

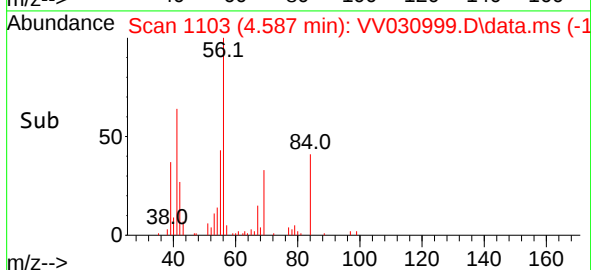
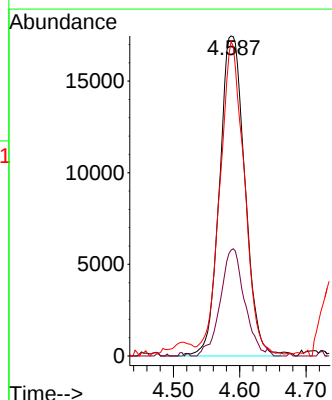
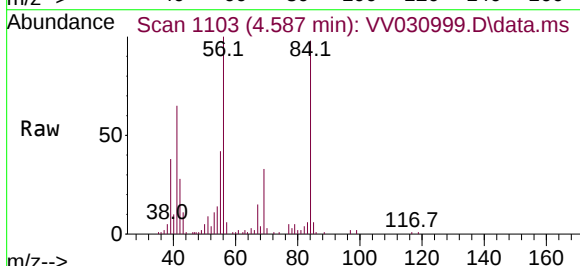
Tgt Ion: 56 Resp: 46250

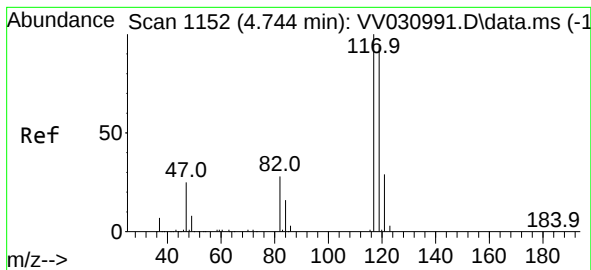
Ion Ratio Lower Upper

56 100

69 31.9 25.0 37.6

84 93.4 74.2 111.2





#31

Carbon tetrachloride

Concen: 5.749 ug/L

RT: 4.741 min Scan# 1151

Delta R.T. -0.003 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

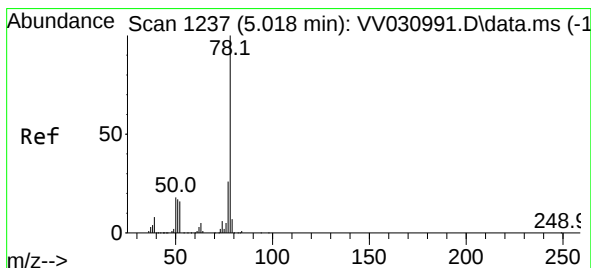
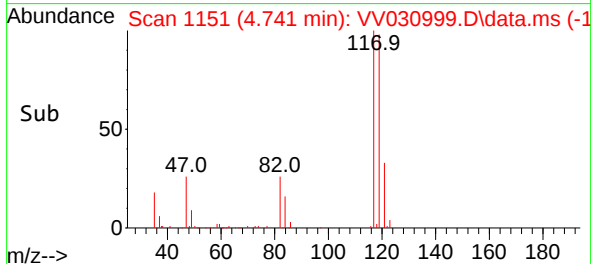
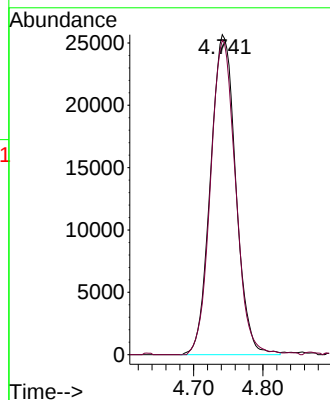
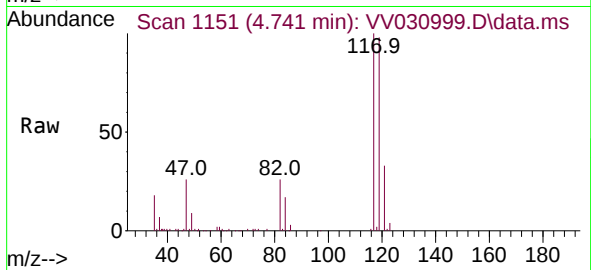
VSTD005343

Tgt Ion:117 Resp: 65117

Ion Ratio Lower Upper

117 100

119 97.0 78.4 117.6



#33

Benzene

Concen: 5.531 ug/L

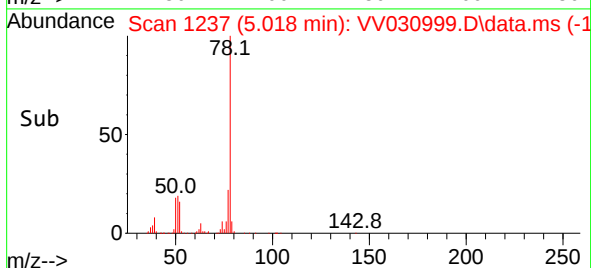
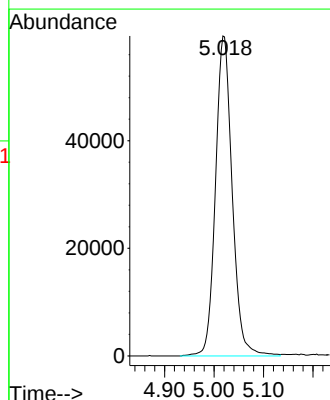
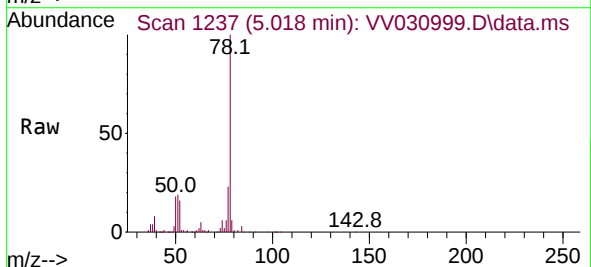
RT: 5.018 min Scan# 1237

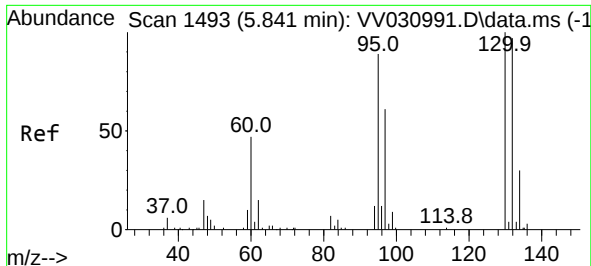
Delta R.T. 0.000 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Tgt Ion: 78 Resp: 139638

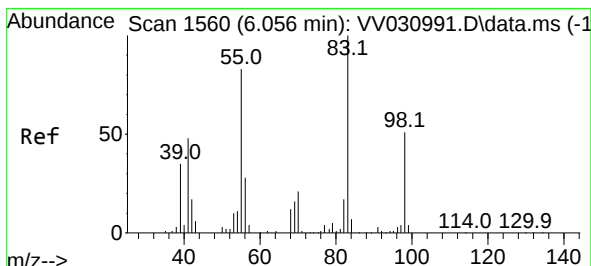
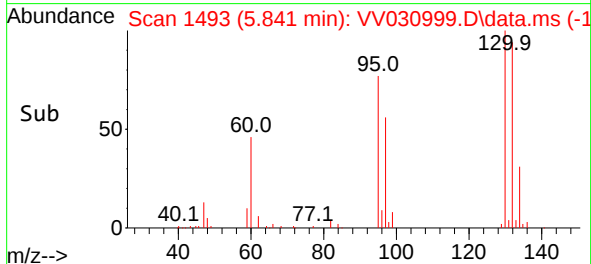
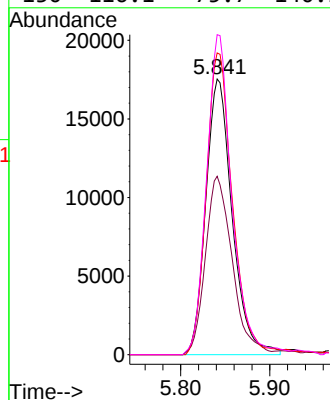
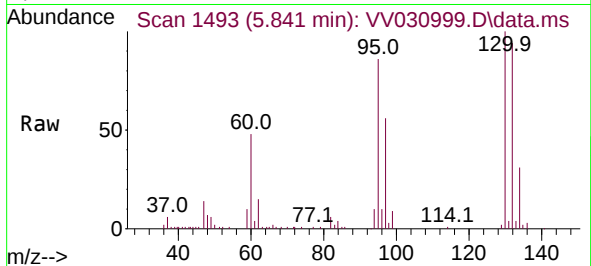




#34  
Trichloroethene  
Concen: 5.373 ug/L  
RT: 5.841 min Scan# 1493  
Delta R.T. 0.000 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

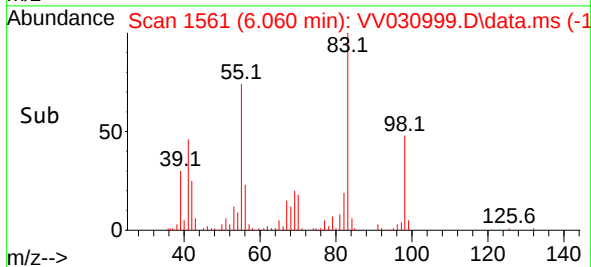
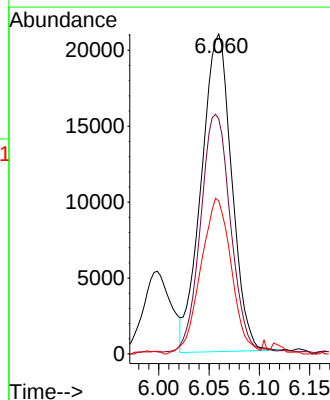
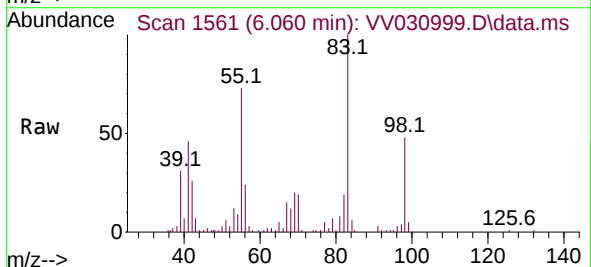
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005343

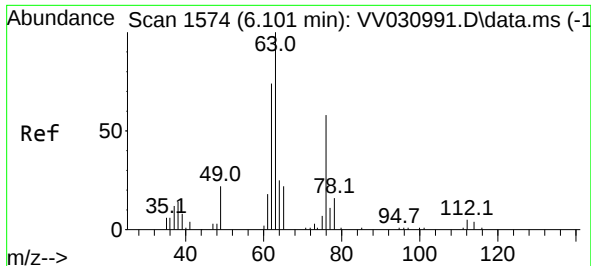
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 95    | Resp: | 36154 |
| Ion Ratio | Lower | Upper |       |
| 95        | 100   |       |       |
| 97        | 64.7  | 46.2  | 85.8  |
| 132       | 109.5 | 72.7  | 135.1 |
| 130       | 116.1 | 75.7  | 140.5 |



#35  
Methylcyclohexane  
Concen: 4.220 ug/L  
RT: 6.060 min Scan# 1561  
Delta R.T. 0.003 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 44011 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 55        | 73.9  | 62.9  | 94.3  |
| 98        | 49.2  | 40.5  | 60.7  |





#37

1,2-Dichloropropane

Concen: 5.797 ug/L

RT: 6.105 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

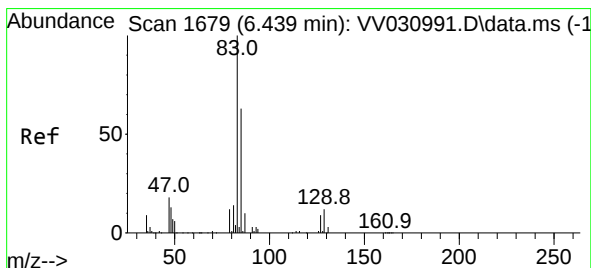
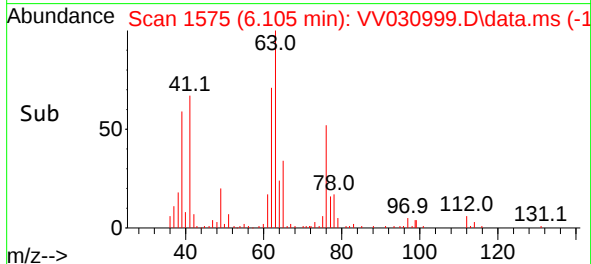
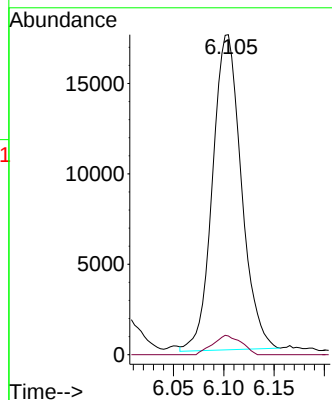
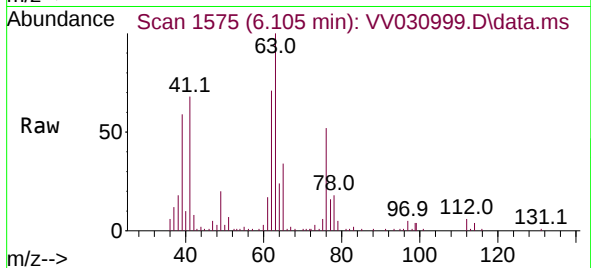
VSTD005343

Tgt Ion: 63 Resp: 34711

Ion Ratio Lower Upper

63 100

112 6.0 3.8 5.8#



#38

Bromodichloromethane

Concen: 6.012 ug/L

RT: 6.442 min Scan# 1680

Delta R.T. 0.003 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

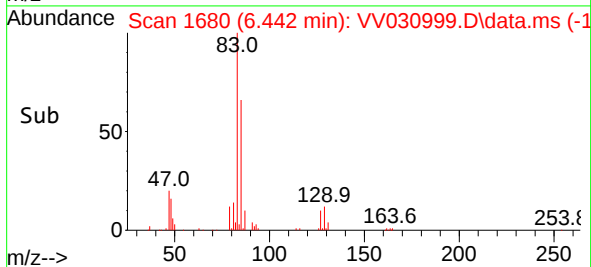
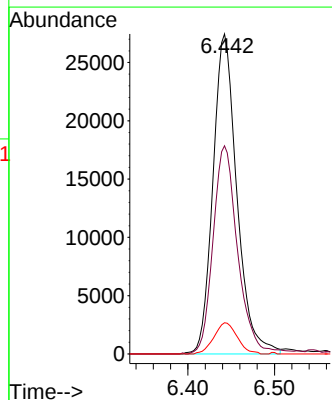
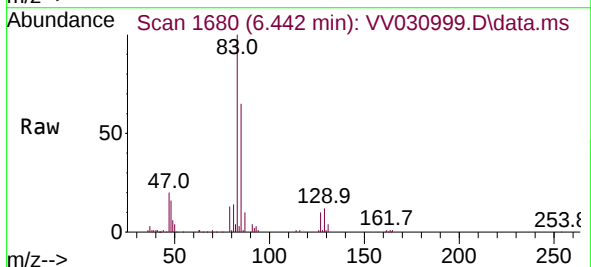
Tgt Ion: 83 Resp: 52688

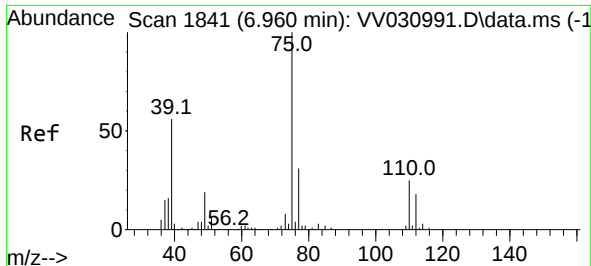
Ion Ratio Lower Upper

83 100

85 65.1 44.4 82.4

127 9.8 6.6 9.8





#39

cis-1,3-Dichloropropene

Concen: 5.347 ug/L

RT: 6.963 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

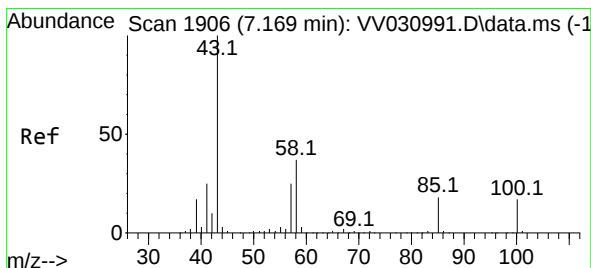
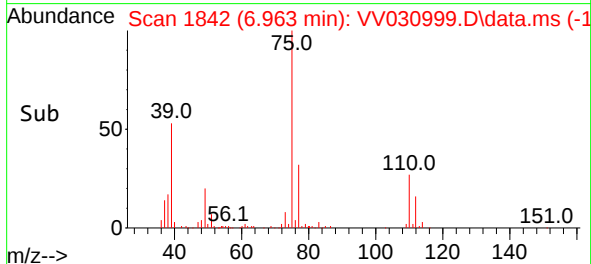
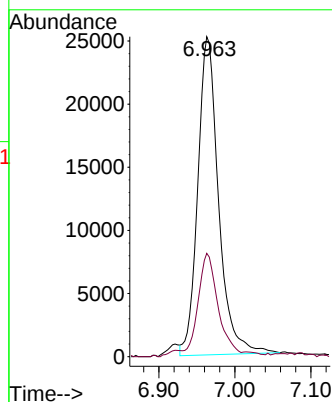
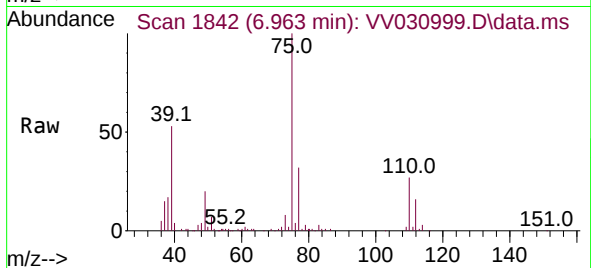
VSTD005343

Tgt Ion: 75 Resp: 47958

Ion Ratio Lower Upper

75 100

77 32.3 22.6 42.0



#40

4-Methyl-2-pentanone

Concen: 64.312 ug/L

RT: 7.175 min Scan# 1908

Delta R.T. 0.007 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

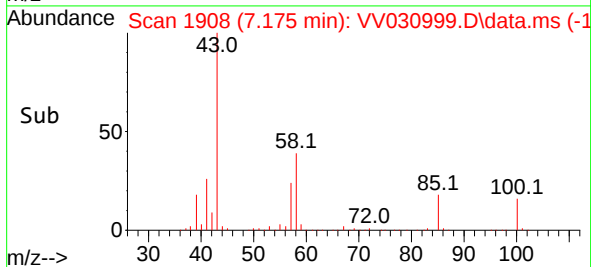
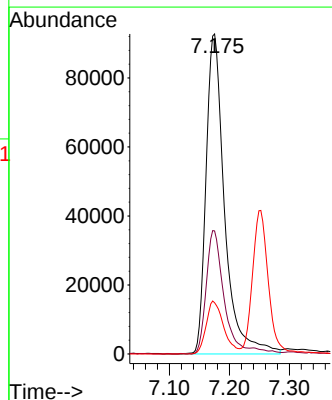
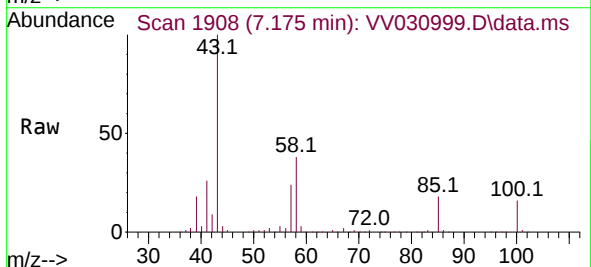
Tgt Ion: 43 Resp: 199526

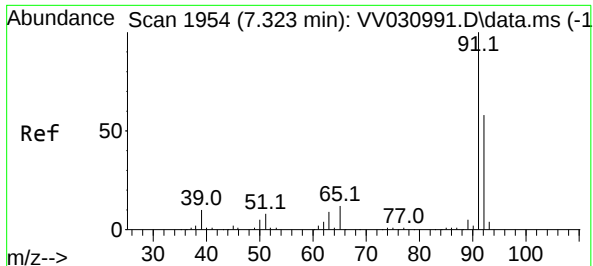
Ion Ratio Lower Upper

43 100

58 36.2 28.3 42.5

100 15.6 11.8 17.8





#42

Toluene

Concen: 5.239 ug/L

RT: 7.323 min Scan# 1954

Delta R.T. 0.000 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

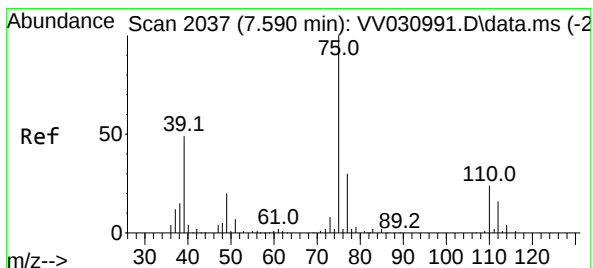
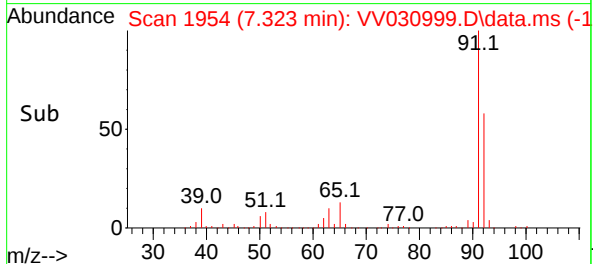
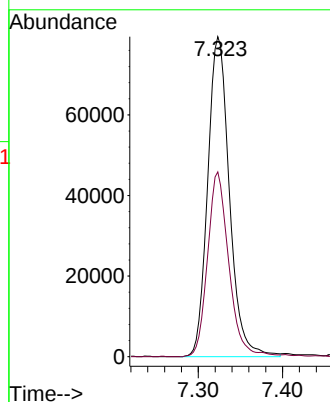
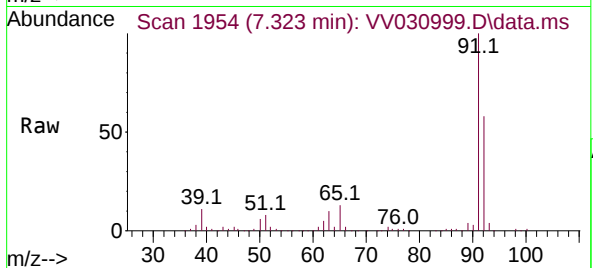
VSTD005343

Tgt Ion: 91 Resp: 142387

Ion Ratio Lower Upper

91 100

92 57.7 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 5.878 ug/L

RT: 7.590 min Scan# 2037

Delta R.T. 0.000 min

Lab File: VV030999.D

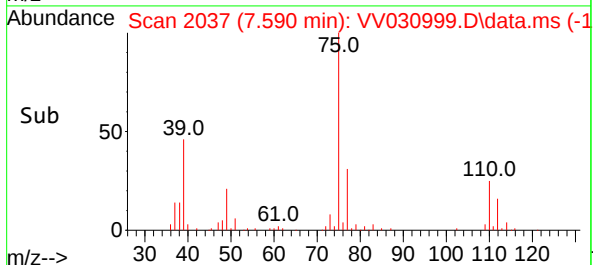
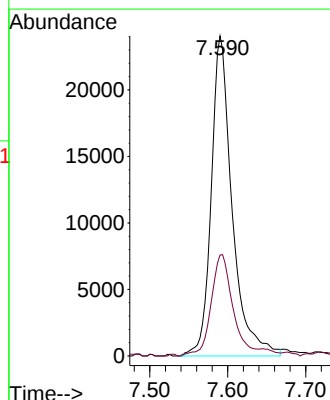
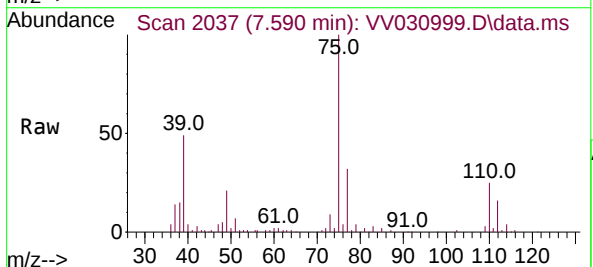
Acq: 05 May 2023 17:08

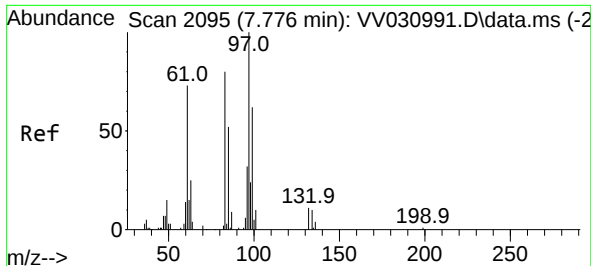
Tgt Ion: 75 Resp: 44920

Ion Ratio Lower Upper

75 100

77 31.5 21.6 40.0

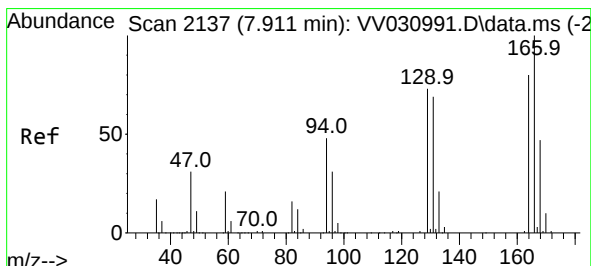
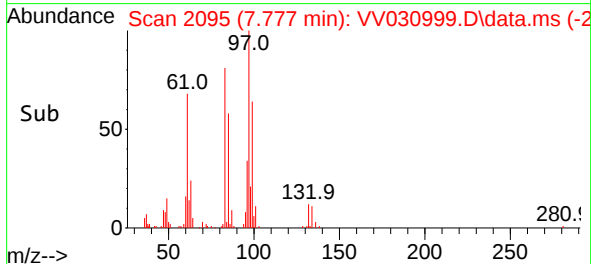
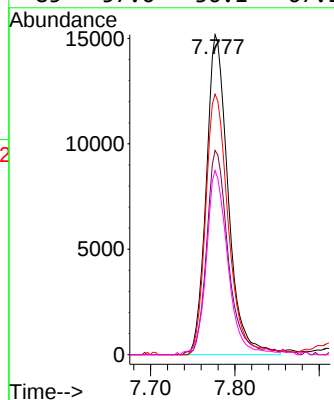
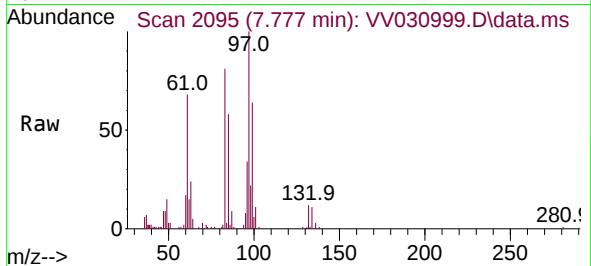




#45  
1,1,2-Trichloroethane  
Concen: 6.187 ug/L  
RT: 7.777 min Scan# 2095  
Delta R.T. 0.000 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

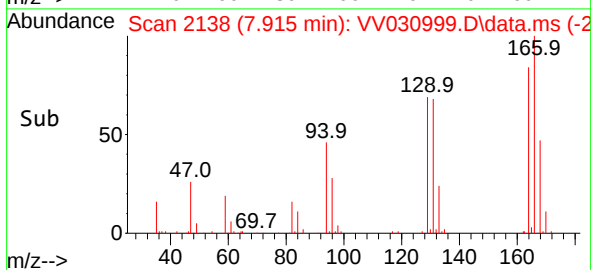
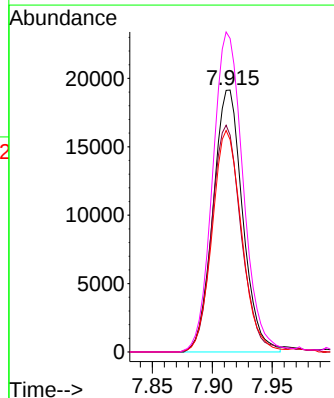
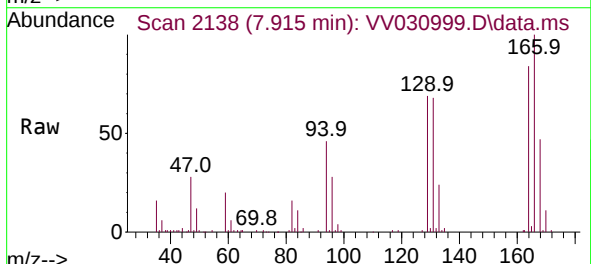
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005343

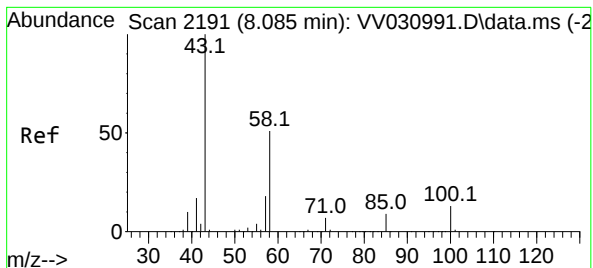
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 27488 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 63.8     | 42.8 79.6   |
| 83 81.4     | 57.5 106.7  |
| 85 57.6     | 36.1 67.1   |



#47  
Tetrachloroethene  
Concen: 5.125 ug/L  
RT: 7.915 min Scan# 2138  
Delta R.T. 0.003 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 32901 |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 129 | 82.7    | 60.5  | 112.3 |
| 131 | 81.0    | 60.8  | 112.8 |
| 166 | 119.6   | 85.9  | 159.5 |





#48

2-Hexanone

Concen: 63.337 ug/L

RT: 8.092 min Scan# 2193

Delta R.T. 0.007 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005343

Tgt Ion: 43 Resp: 150714

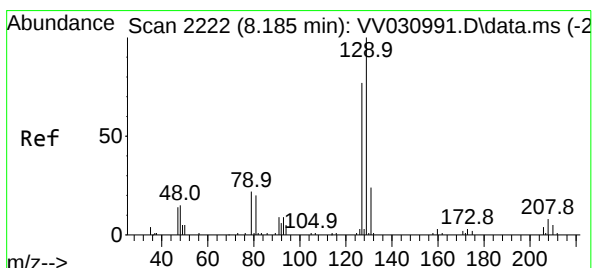
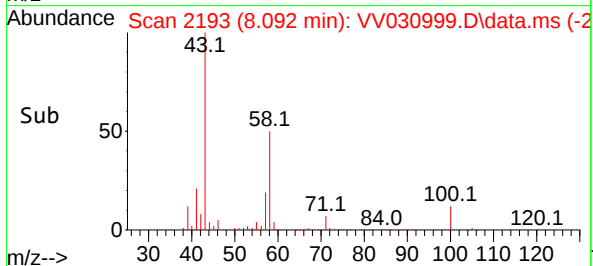
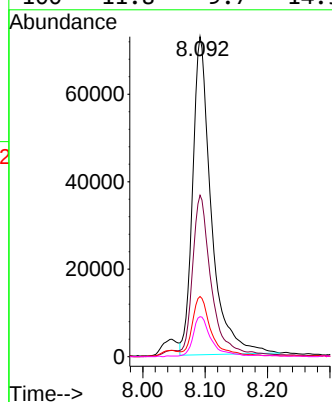
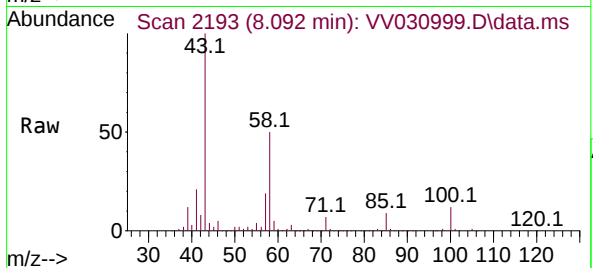
Ion Ratio Lower Upper

43 100

58 47.5 39.9 59.9

57 18.9 14.1 21.1

100 11.8 9.7 14.5



#49

Dibromochloromethane

Concen: 6.444 ug/L

RT: 8.185 min Scan# 2222

Delta R.T. 0.000 min

Lab File: VV030999.D

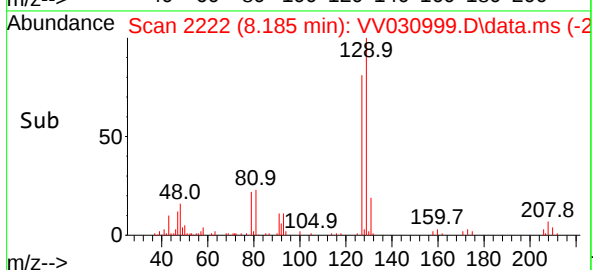
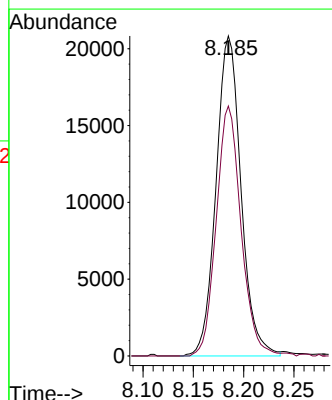
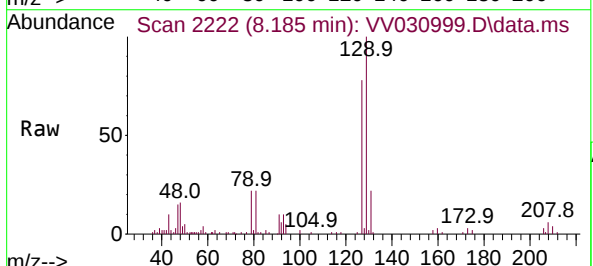
Acq: 05 May 2023 17:08

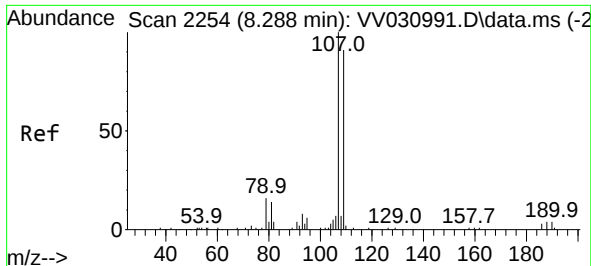
Tgt Ion: 129 Resp: 36019

Ion Ratio Lower Upper

129 100

127 78.1 55.3 102.7





#50

1,2-Dibromoethane

Concen: 6.455 ug/L

RT: 8.291 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005343

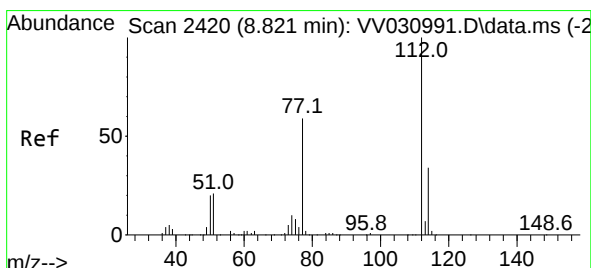
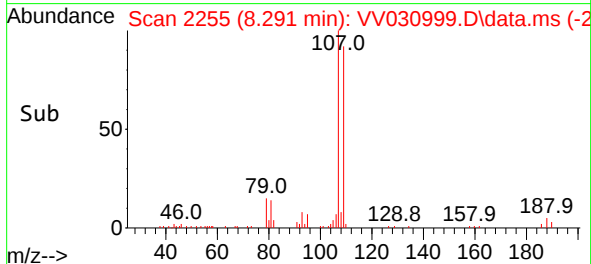
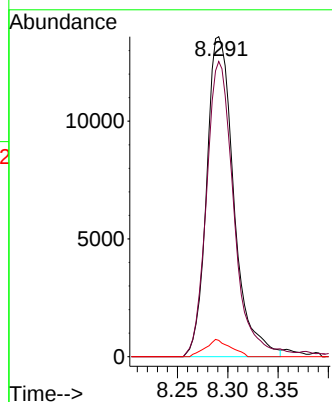
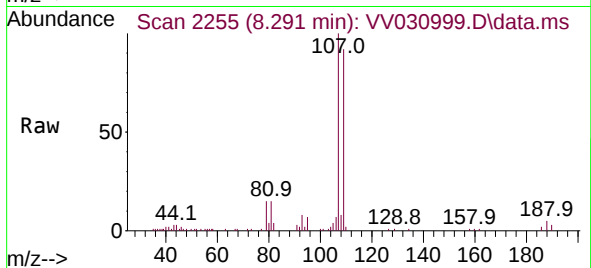
Tgt Ion:107 Resp: 25580

Ion Ratio Lower Upper

107 100

109 92.2 64.9 120.5

188 5.1 3.2 4.8#



#51

Chlorobenzene

Concen: 4.786 ug/L

RT: 8.822 min Scan# 2420

Delta R.T. 0.000 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

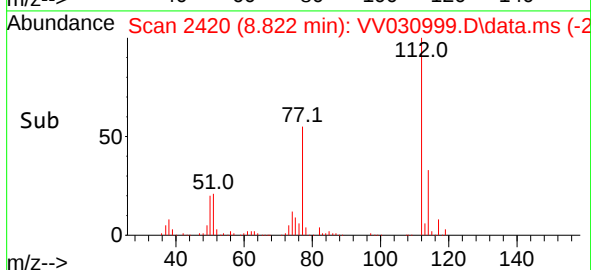
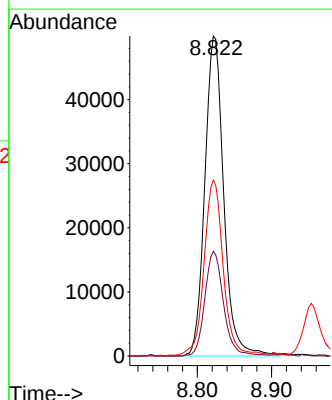
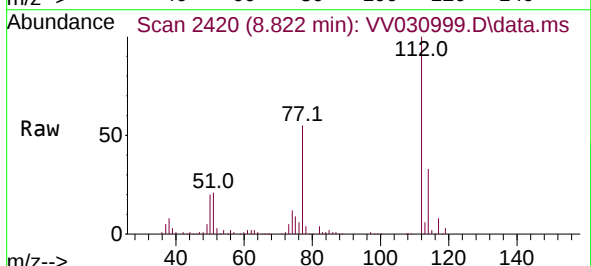
Tgt Ion:112 Resp: 88195

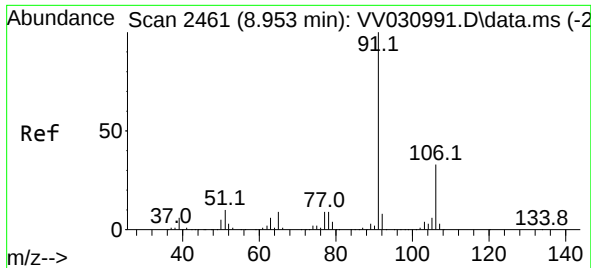
Ion Ratio Lower Upper

112 100

114 32.7 22.5 41.9

77 55.0 45.3 67.9

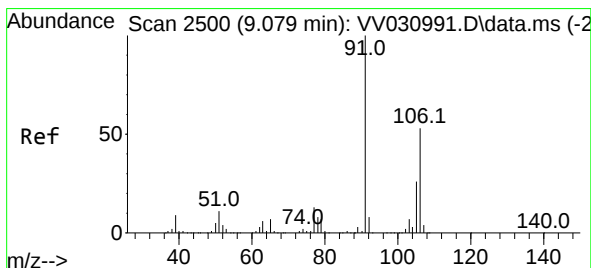
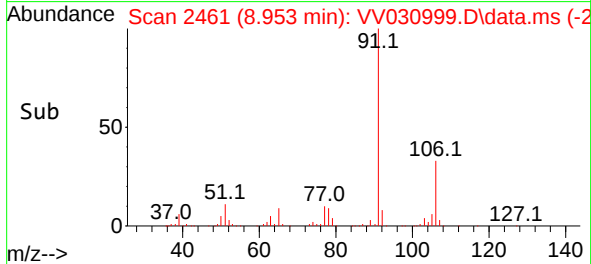
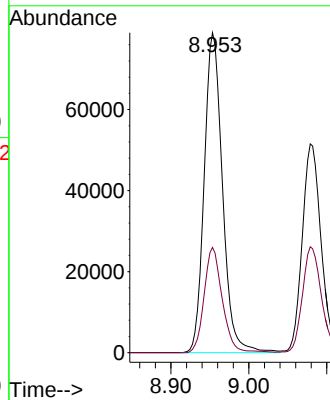
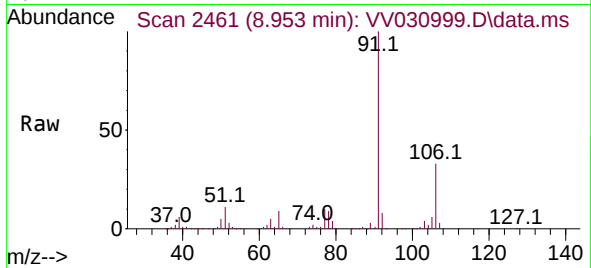




#52  
Ethylbenzene  
Concen: 4.345 ug/L  
RT: 8.953 min Scan# 2461  
Delta R.T. 0.000 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

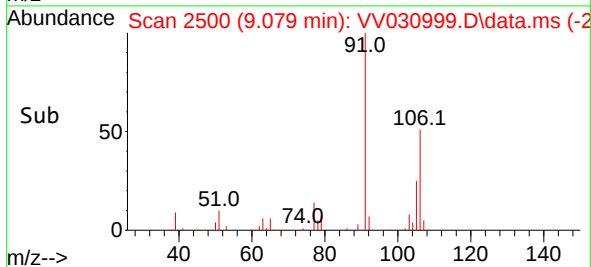
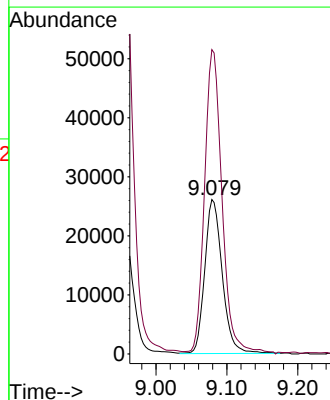
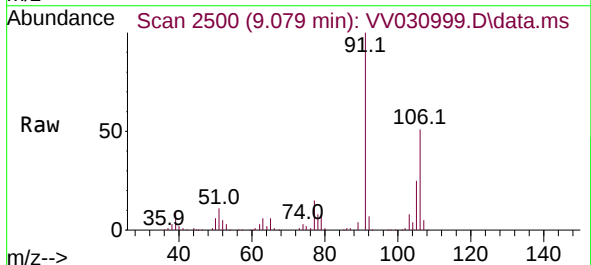
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005343

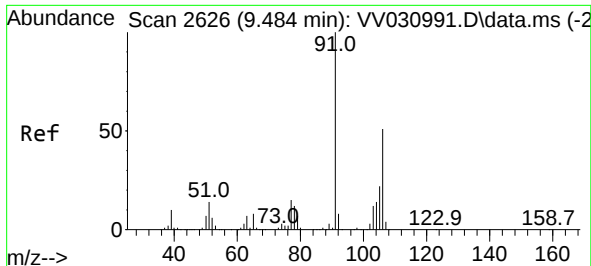
Tgt Ion: 91 Resp: 128755  
Ion Ratio Lower Upper  
91 100  
106 32.9 21.4 39.8



#53  
m,p-Xylene  
Concen: 3.800 ug/L  
RT: 9.079 min Scan# 2500  
Delta R.T. 0.000 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

Tgt Ion: 106 Resp: 44931  
Ion Ratio Lower Upper  
106 100  
91 197.2 138.7 257.5

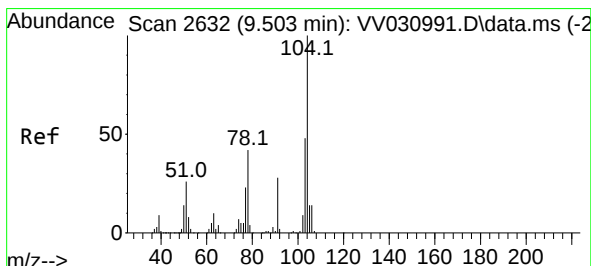
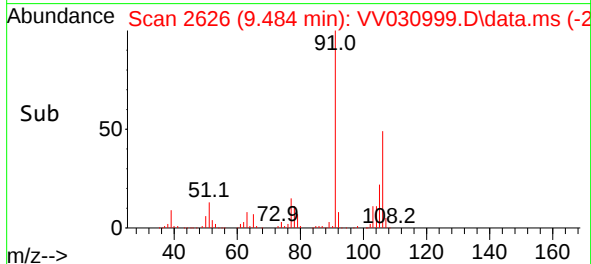
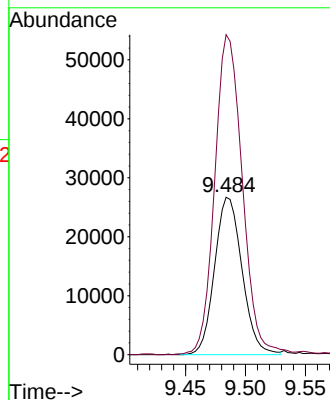
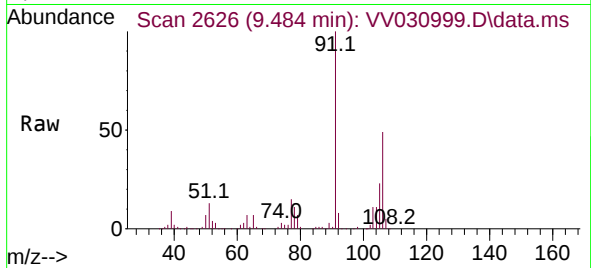




#54  
o-Xylene  
Concen: 3.774 ug/L  
RT: 9.484 min Scan# 2626  
Delta R.T. 0.000 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

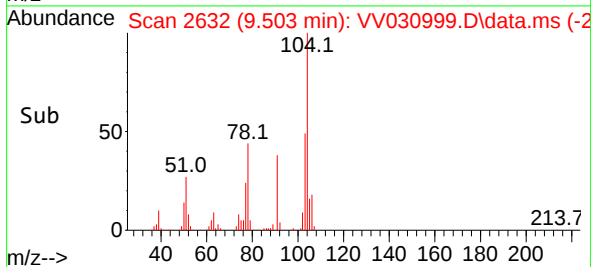
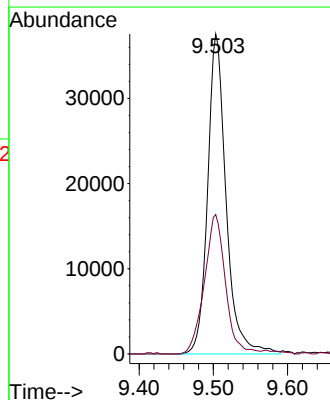
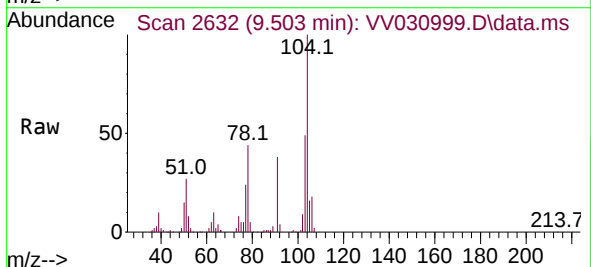
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005343

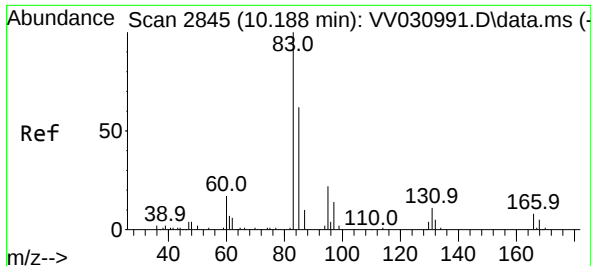
Tgt Ion:106 Resp: 42472  
Ion Ratio Lower Upper  
106 100  
91 203.3 145.1 269.5



#55  
Styrene  
Concen: 3.409 ug/L  
RT: 9.503 min Scan# 2632  
Delta R.T. 0.000 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

Tgt Ion:104 Resp: 64739  
Ion Ratio Lower Upper  
104 100  
78 43.5 31.4 58.2





#57

1,1,2,2-Tetrachloroethane

Concen: 6.058 ug/L

RT: 10.188 min Scan# 2845

Delta R.T. 0.000 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005343

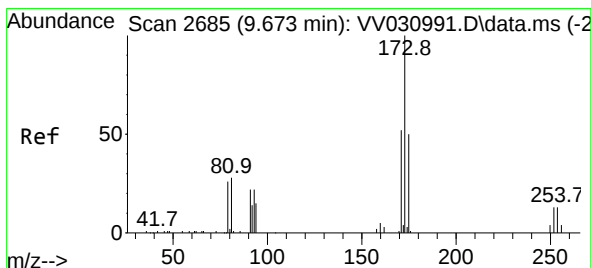
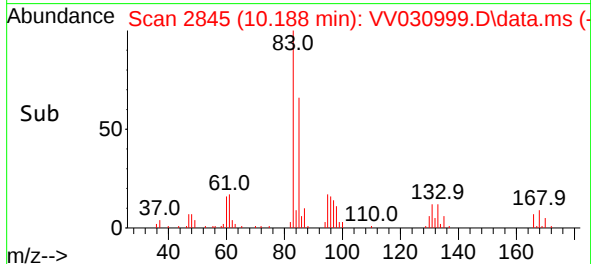
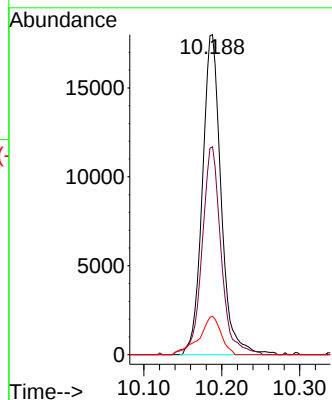
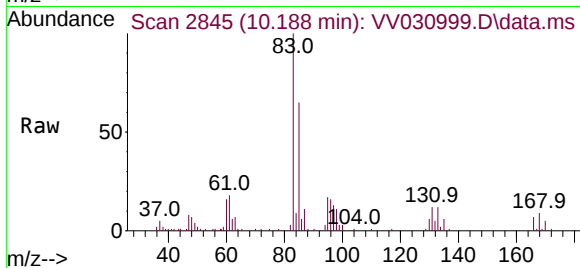
Tgt Ion: 83 Resp: 30087

Ion Ratio Lower Upper

83 100

85 65.0 45.2 84.0

131 12.0 8.3 12.5



#59

Bromoform

Concen: 11.160 ug/L

RT: 9.674 min Scan# 2685

Delta R.T. 0.000 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

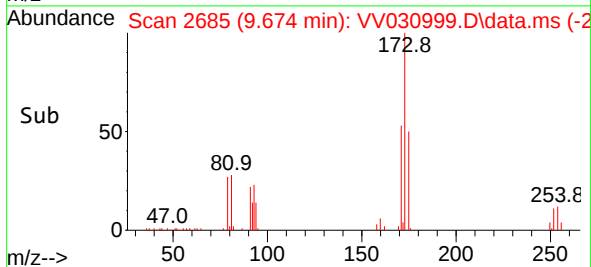
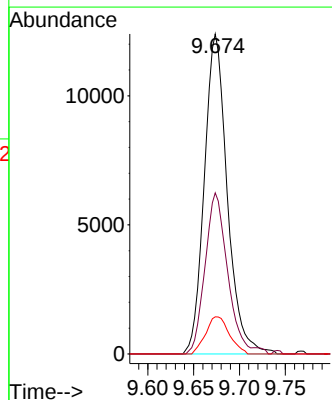
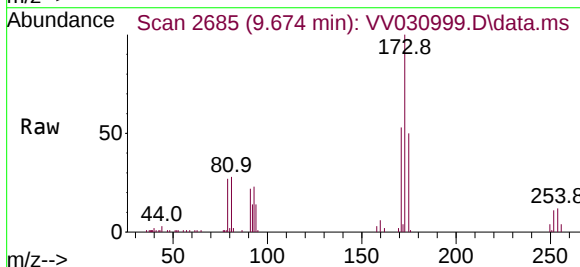
Tgt Ion: 173 Resp: 21564

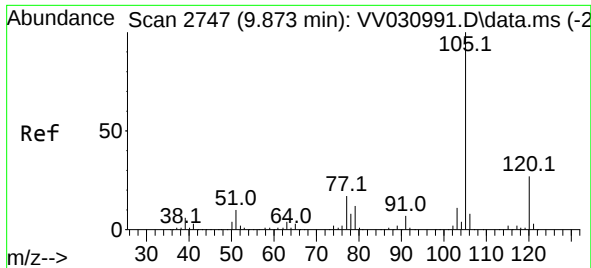
Ion Ratio Lower Upper

173 100

175 49.9 39.9 59.9

254 12.0 9.7 14.5

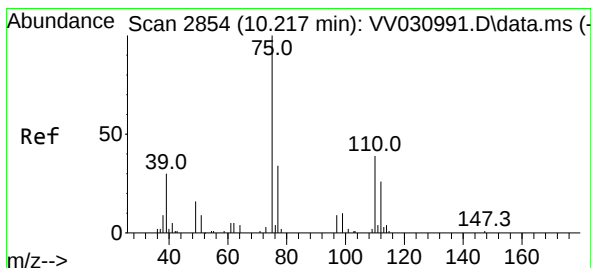
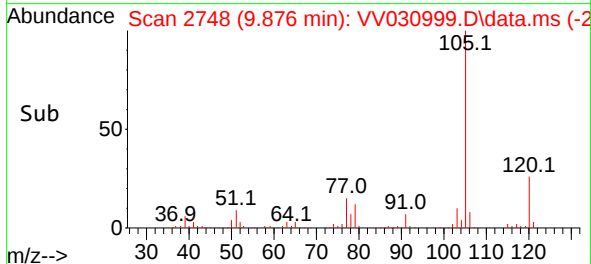
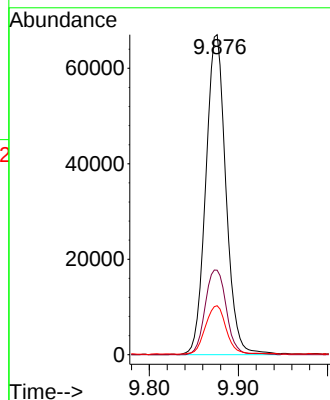
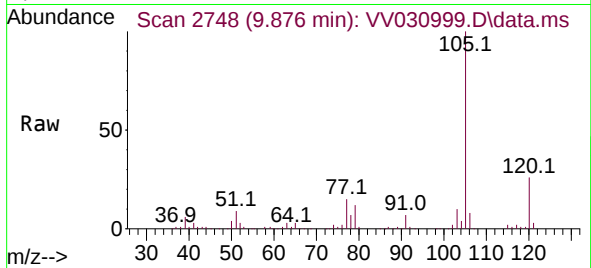




#60  
Isopropylbenzene  
Concen: 5.928 ug/L  
RT: 9.876 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

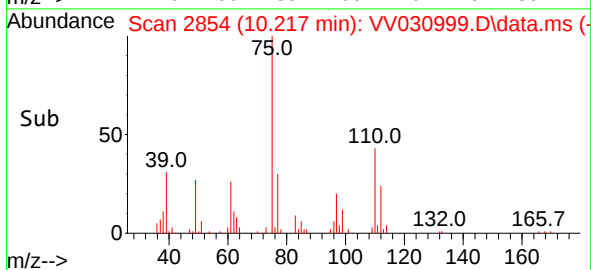
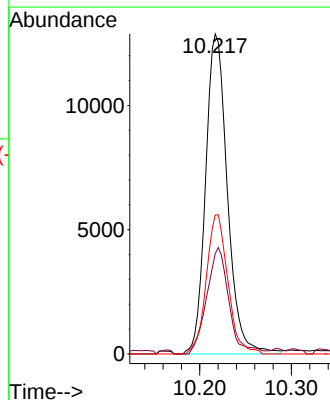
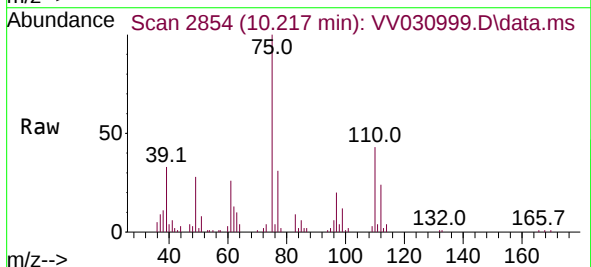
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005343

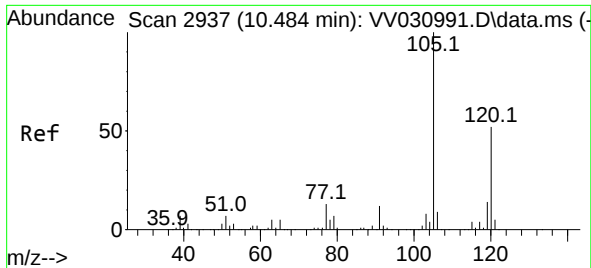
Tgt Ion:105 Resp: 104918  
Ion Ratio Lower Upper  
105 100  
120 27.8 22.2 33.4  
77 15.7 13.0 19.6



#61  
1,2,3-Trichloropropane  
Concen: 10.317 ug/L  
RT: 10.217 min Scan# 2854  
Delta R.T. 0.000 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

Tgt Ion: 75 Resp: 21275  
Ion Ratio Lower Upper  
75 100  
77 33.6 25.3 37.9  
110 43.1 34.0 51.0

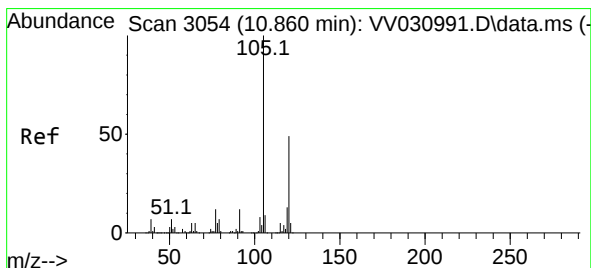
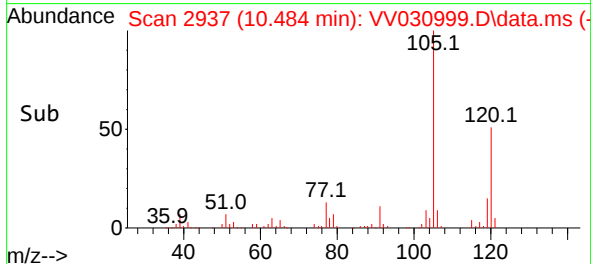
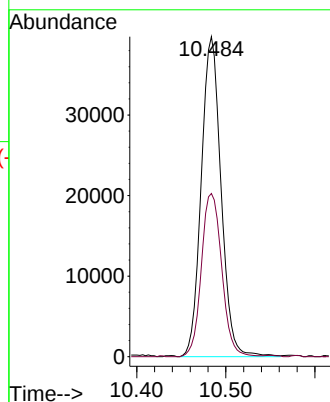
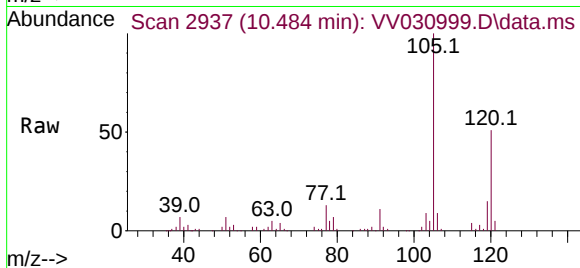




#62  
1,3,5-Trimethylbenzene  
Concen: 4.262 ug/L  
RT: 10.484 min Scan# 2937  
Delta R.T. 0.000 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

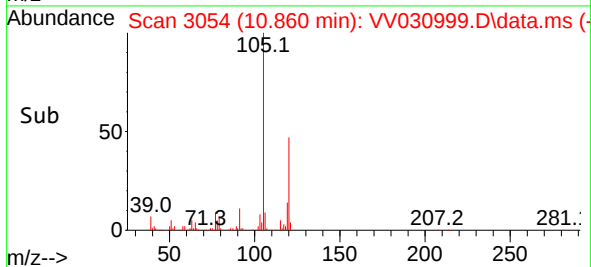
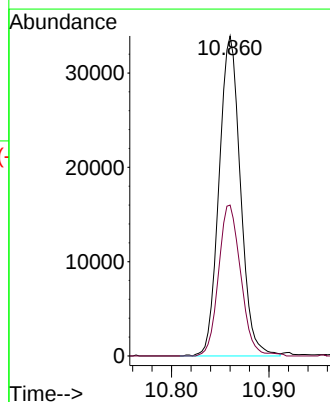
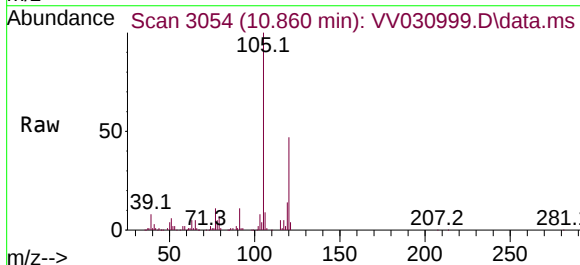
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005343

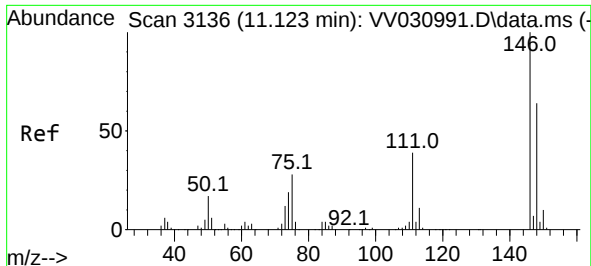
Tgt Ion:105 Resp: 61404  
Ion Ratio Lower Upper  
105 100  
120 52.5 40.2 60.4



#63  
1,2,4-Trimethylbenzene  
Concen: 3.548 ug/L  
RT: 10.860 min Scan# 3054  
Delta R.T. 0.000 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

Tgt Ion:105 Resp: 51803  
Ion Ratio Lower Upper  
105 100  
120 49.0 37.9 56.9

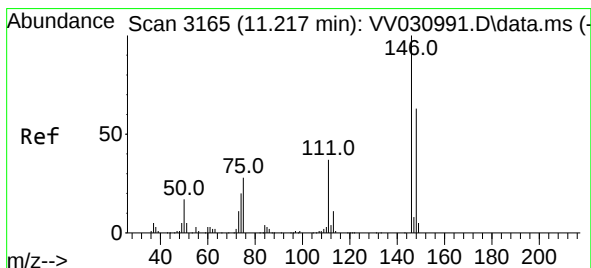
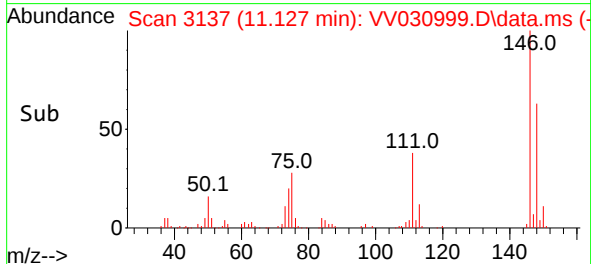
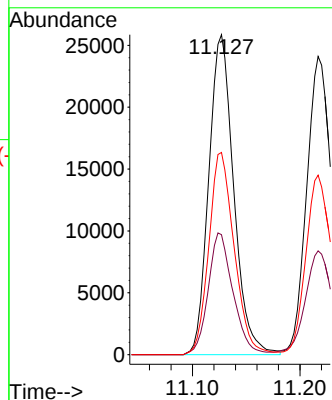
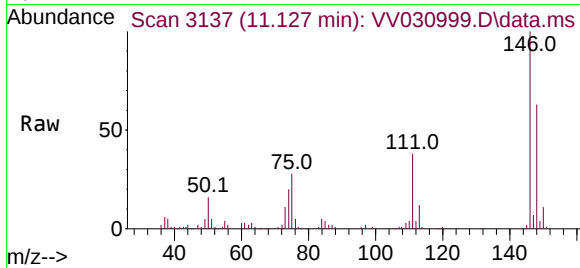




#64  
1,3-Dichlorobenzene  
Concen: 4.585 ug/L  
RT: 11.127 min Scan# 3136  
Delta R.T. 0.003 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

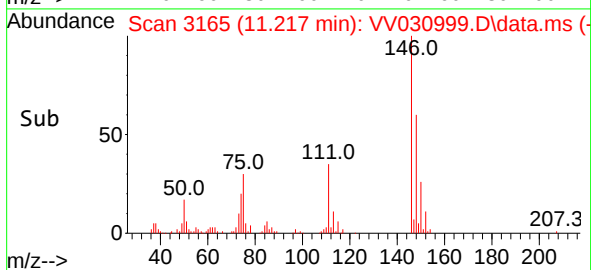
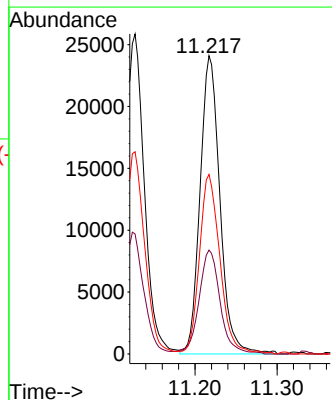
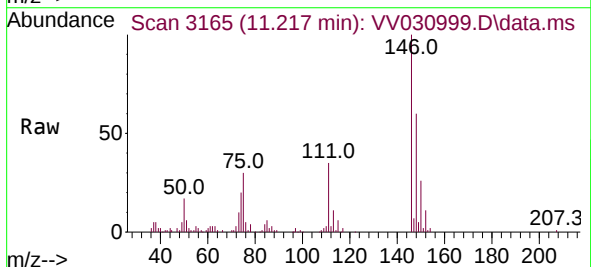
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005343

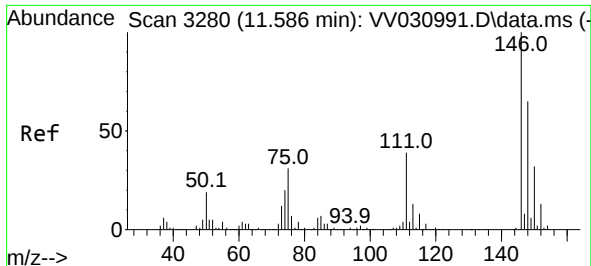
Tgt Ion:146 Resp: 41676  
Ion Ratio Lower Upper  
146 100  
111 37.5 26.5 49.3  
148 63.2 43.4 80.6



#65  
1,4-Dichlorobenzene  
Concen: 4.423 ug/L  
RT: 11.217 min Scan# 3165  
Delta R.T. 0.000 min  
Lab File: VV030999.D  
Acq: 05 May 2023 17:08

Tgt Ion:146 Resp: 40558  
Ion Ratio Lower Upper  
146 100  
111 34.8 23.9 44.5  
148 60.2 42.8 79.6





#67

1,2-Dichlorobenzene

Concen: 4.467 ug/L

RT: 11.587 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005343

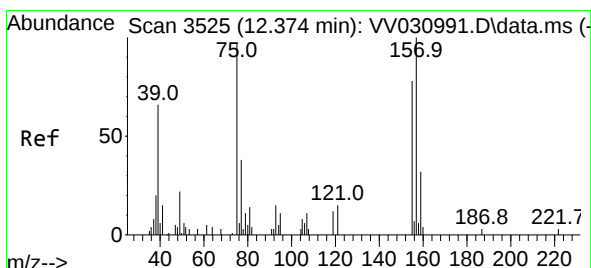
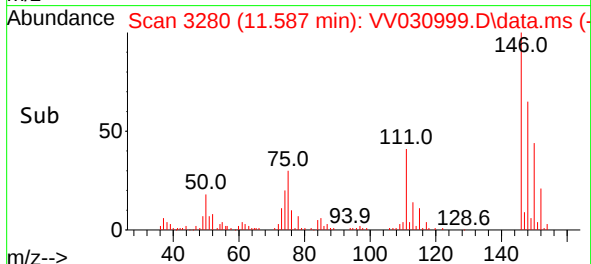
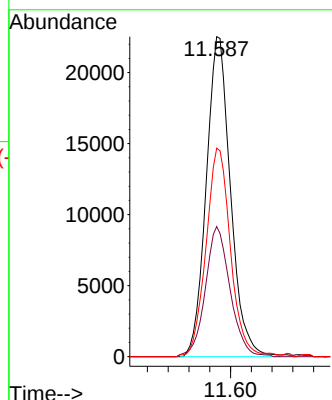
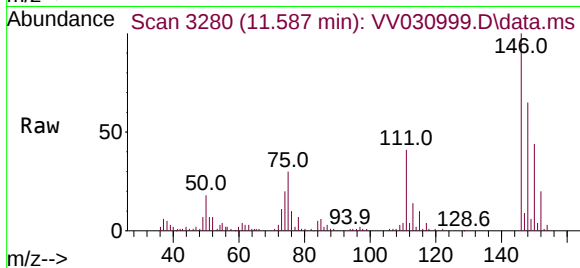
Tgt Ion:146 Resp: 36512

Ion Ratio Lower Upper

146 100

111 40.7 34.0 51.0

148 65.1 53.8 80.6



#68

1,2-Dibromo-3-chloropropane

Concen: 7.424 ug/L

RT: 12.371 min Scan# 3524

Delta R.T. -0.003 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

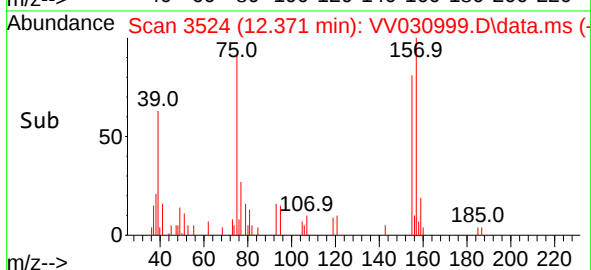
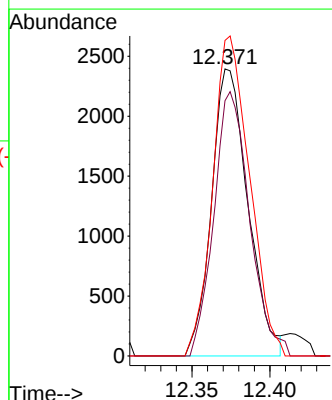
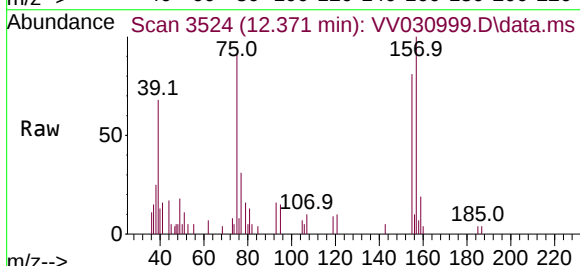
Tgt Ion: 75 Resp: 3886

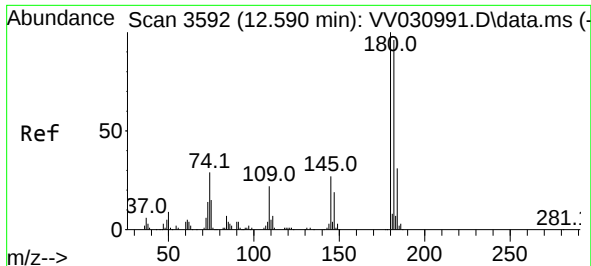
Ion Ratio Lower Upper

75 100

155 88.9 56.2 84.4#

157 109.9 83.1 124.7





#69

1,3,5-Trichlorobenzene

Concen: 1.925 ug/L

RT: 12.590 min Scan# 3592

Delta R.T. 0.000 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005343

Tgt Ion:180 Resp: 13854

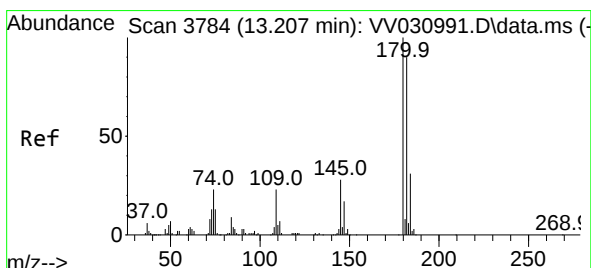
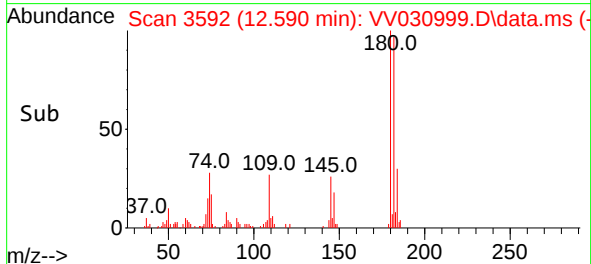
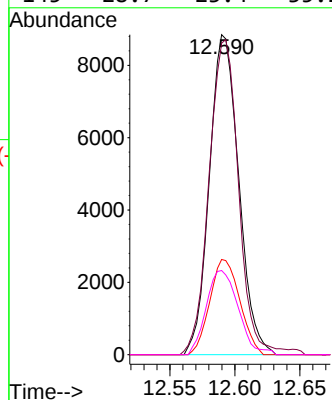
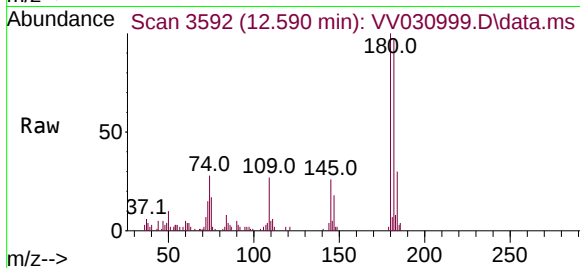
Ion Ratio Lower Upper

180 100

182 99.6 75.1 112.7

184 30.5 24.1 36.1

145 28.7 23.4 35.2



#70

1,2,4-trichlorobenzene

Concen: 1.416 ug/L

RT: 13.207 min Scan# 3784

Delta R.T. 0.000 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

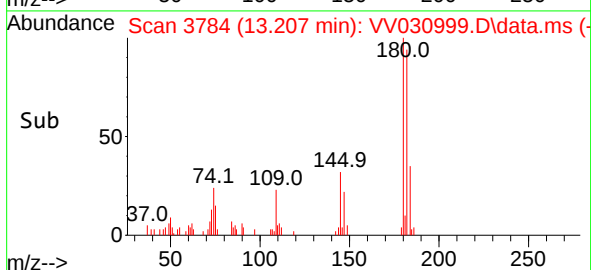
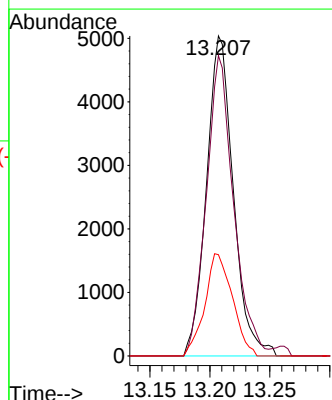
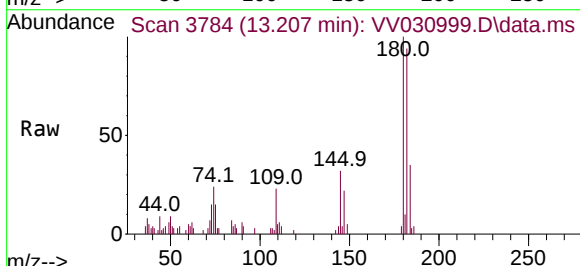
Tgt Ion:180 Resp: 7832

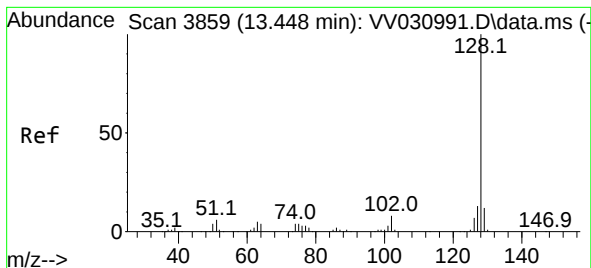
Ion Ratio Lower Upper

180 100

182 95.2 76.0 114.0

145 32.8 22.9 34.3





#71

Naphthalene

Concen: 0.806 ug/L

RT: 13.452 min Scan# 3860

Delta R.T. 0.003 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005343

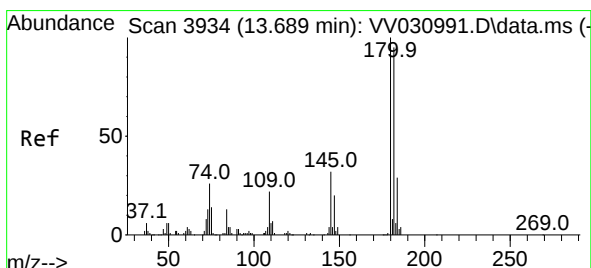
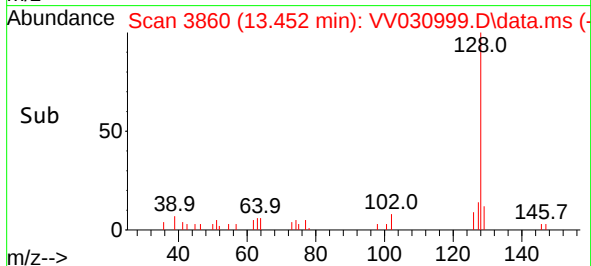
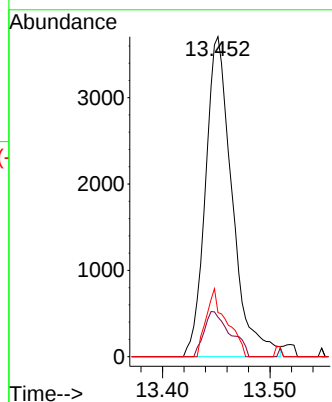
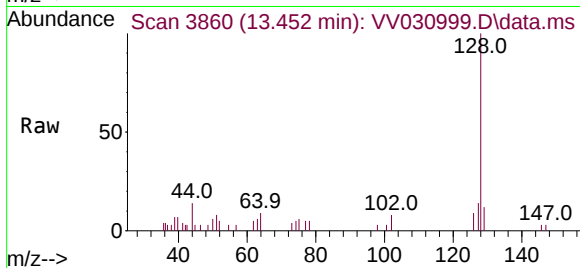
Tgt Ion:128 Resp: 6395

Ion Ratio Lower Upper

128 100

129 13.7 8.6 13.0#

127 16.2 10.6 16.0#



#72

1,2,3-Trichlorobenzene

Concen: 1.336 ug/L

RT: 13.689 min Scan# 3934

Delta R.T. 0.000 min

Lab File: VV030999.D

Acq: 05 May 2023 17:08

Tgt Ion:180 Resp: 6254

Ion Ratio Lower Upper

180 100

182 93.0 77.3 115.9

145 31.7 24.7 37.1

