

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU122022\  
 Data File : VU052463.D  
 Acq On : 20 Dec 2022 17:08  
 Operator : JC/MD  
 Sample : VSTD01077  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010077

Quant Time: Dec 21 03:25:18 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122022WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Dec 21 03:23:31 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Difluorobenzene        | 6.247  | 114  | 179709   | 5.000   | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 9.414  | 117  | 174883   | 5.000   | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.806 | 152  | 93224    | 5.000   | ug/L  | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 4) Vinyl Chloride-d3          | 1.597  | 65   | 187293   | 10.287  | ug/L  | 0.00     |
| 7) Chloroethane-d5            | 1.916  | 69   | 157659   | 10.041  | ug/L  | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.568  | 65   | 79450    | 10.141  | ug/L  | 0.00     |
| 20) 2-Butanone-d5             | 4.649  | 46   | 609746   | 108.260 | ug/L  | 0.00     |
| 24) Chloroform-d              | 5.060  | 84   | 310421   | 10.106  | ug/L  | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.697  | 65   | 178593   | 10.023  | ug/L  | 0.00     |
| 32) Benzene-d6                | 5.726  | 84   | 630885   | 10.522  | ug/L  | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 6.687  | 67   | 211696   | 10.257  | ug/L  | 0.00     |
| 41) Toluene-d8                | 7.893  | 98   | 561037   | 11.146  | ug/L  | 0.00     |
| 43) trans-1,3-Dichloroprop... | 8.176  | 79   | 78703    | 11.136  | ug/L  | 0.00     |
| 46) 2-Hexanone-d5             | 8.632  | 63   | 467969   | 121.025 | ug/L  | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751 | 84   | 183376   | 10.465  | ug/L  | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 12.189 | 152  | 191939   | 10.113  | ug/L  | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.385  | 85   | 164240   | 10.271  | ug/L  | 100      |
| 3) Chloromethane              | 1.520  | 50   | 225382   | 9.765   | ug/L  | 99       |
| 5) Vinyl chloride             | 1.604  | 62   | 215265   | 10.288  | ug/L  | 99       |
| 6) Bromomethane               | 1.858  | 94   | 119351   | 10.006  | ug/L  | 99       |
| 8) Chloroethane               | 1.935  | 64   | 134163   | 9.362   | ug/L  | 96       |
| 9) Trichlorofluoromethane     | 2.141  | 101  | 244431   | 10.333  | ug/L  | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.581  | 101  | 142519   | 10.135  | ug/L  | 100      |
| 12) 1,1-Dichloroethene        | 2.581  | 96   | 138675   | 10.304  | ug/L  | 96       |
| 13) Acetone                   | 2.678  | 43   | 391208   | 93.394  | ug/L  | 98       |
| 14) Carbon disulfide          | 2.793  | 76   | 446580   | 10.298  | ug/L  | 99       |
| 15) Methyl Acetate            | 2.964  | 43   | 100203   | 11.041  | ug/L  | 94       |
| 16) Methylene chloride        | 3.044  | 84   | 168739   | 8.875   | ug/L  | 98       |
| 17) Methyl tert-butyl Ether   | 3.363  | 73   | 380513   | 10.591  | ug/L  | 99       |
| 18) trans-1,2-Dichloroethene  | 3.353  | 96   | 143926   | 10.376  | ug/L  | 97       |
| 19) 1,1-Dichloroethane        | 3.867  | 63   | 309721   | 10.267  | ug/L  | 99       |
| 21) 2-Butanone                | 4.726  | 43   | 684019   | 112.865 | ug/L  | 98       |
| 22) cis-1,2-Dichloroethene    | 4.665  | 96   | 159534   | 10.480  | ug/L  | 96       |
| 23) Bromochloromethane        | 4.973  | 128  | 73531    | 10.423  | ug/L  | 98       |
| 25) Chloroform                | 5.083  | 83   | 294866   | 10.089  | ug/L  | 100      |
| 27) 1,2-Dichloroethane        | 5.790  | 62   | 206478   | 10.225  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane     | 5.314  | 97   | 231323   | 10.509  | ug/L  | 99       |
| 30) Cyclohexane               | 5.388  | 56   | 271353   | 11.408  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.523  | 117  | 200939   | 10.389  | ug/L  | 100      |
| 33) Benzene                   | 5.771  | 78   | 670348   | 10.642  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 154176   | 10.470  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.761  | 83   | 259842   | 11.701  | ug/L  | 97       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 188565   | 10.728  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.102  | 83   | 219245   | 10.248  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene   | 7.604  | 75   | 245151   | 11.012  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 1487293  | 115.789 | ug/L  | 98       |
| 42) Toluene                   | 7.967  | 91   | 675109   | 11.178  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.205  | 75   | 219961   | 11.212  | ug/L  | 97       |

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 ALS Vial : 5 Sample Multiplier: 1

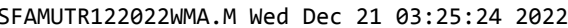
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010077

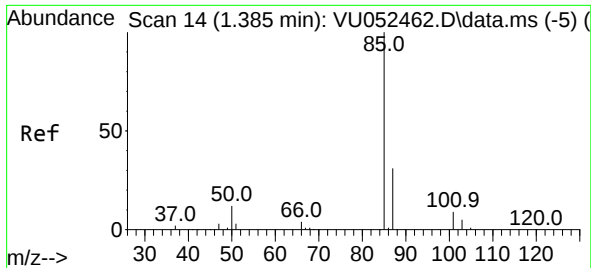
Quant Time: Dec 21 03:25:18 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122022WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Dec 21 03:23:31 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| -----                         |        |      |          |         |        |          |
| 45) 1,1,2-Trichloroethane     | 8.394  | 97   | 129957   | 10.439  | ug/L   | 99       |
| 47) Tetrachloroethene         | 8.549  | 164  | 108964   | 10.600  | ug/L   | 99       |
| 48) 2-Hexanone                | 8.684  | 43   | 1109870  | 115.771 | ug/L   | 100      |
| 49) Dibromochloromethane      | 8.806  | 129  | 140960   | 10.693  | ug/L   | 100      |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 119460   | 10.556  | ug/L # | 99       |
| 51) Chlorobenzene             | 9.443  | 112  | 403097   | 10.451  | ug/L   | 98       |
| 52) Ethylbenzene              | 9.565  | 91   | 712432   | 11.398  | ug/L   | 99       |
| 53) m,p-Xylene                | 9.690  | 106  | 271773   | 11.792  | ug/L   | 99       |
| 54) o-Xylene                  | 10.095 | 106  | 259277   | 11.735  | ug/L   | 99       |
| 55) Styrene                   | 10.108 | 104  | 463868   | 12.068  | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 182171   | 10.585  | ug/L   | 99       |
| 59) Bromoform                 | 10.285 | 173  | 79650    | 9.724   | ug/L   | 98       |
| 60) Isopropylbenzene          | 10.481 | 105  | 680748   | 11.267  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.819 | 75   | 131174   | 9.810   | ug/L   | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.082 | 105  | 570935   | 11.457  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.462 | 105  | 584302   | 11.647  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 310509   | 10.358  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 311972   | 10.062  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 303003   | 10.229  | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.989 | 75   | 29840    | 9.859   | ug/L   | 91       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 229779   | 10.409  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 196804   | 10.595  | ug/L   | 98       |
| 71) Naphthalene               | 14.082 | 128  | 420123   | 11.178  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.323 | 180  | 196240   | 10.540  | ug/L   | 99       |
| -----                         |        |      |          |         |        |          |

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

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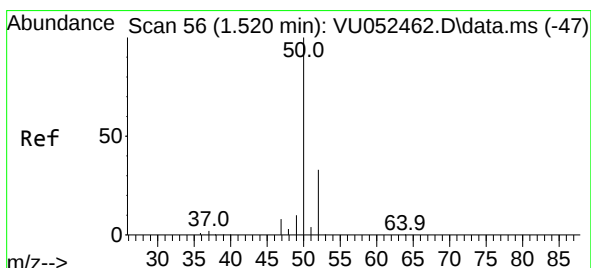
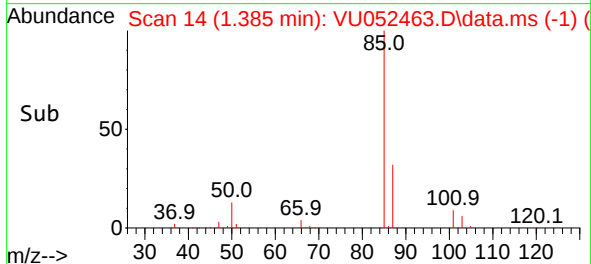
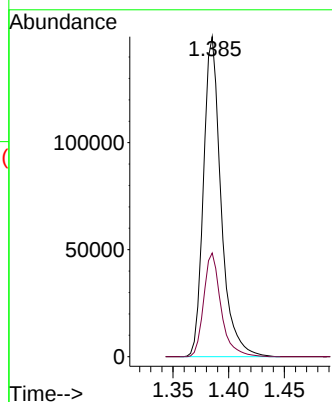
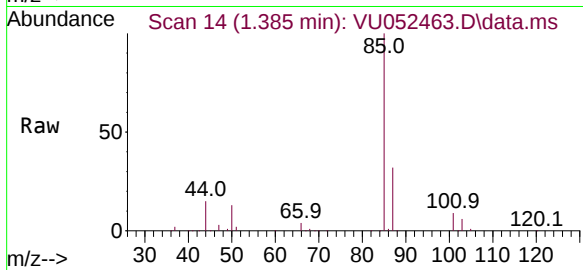




#2  
Dichlorodifluoromethane  
Concen: 10.271 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

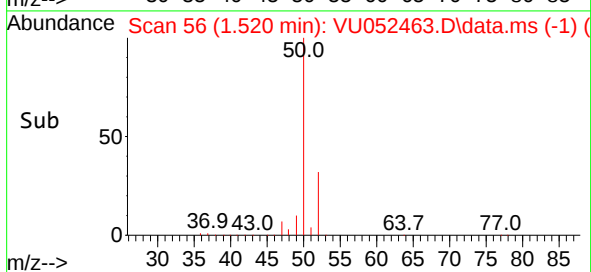
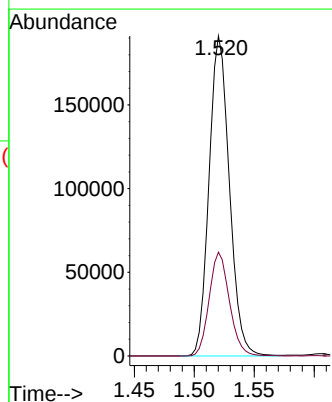
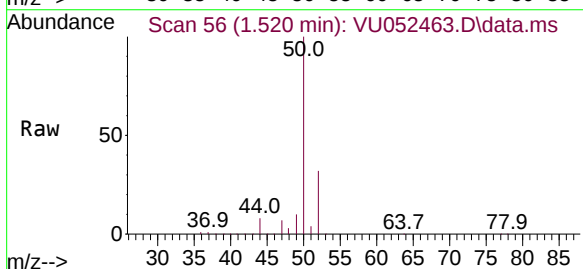
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010077

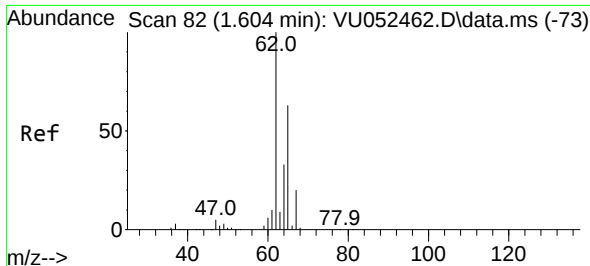
Tgt Ion: 85 Resp: 164240  
Ion Ratio Lower Upper  
85 100  
87 31.9 25.6 38.4



#3  
Chloromethane  
Concen: 9.765 ug/L  
RT: 1.520 min Scan# 56  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

Tgt Ion: 50 Resp: 225382  
Ion Ratio Lower Upper  
50 100  
52 32.5 23.0 42.6

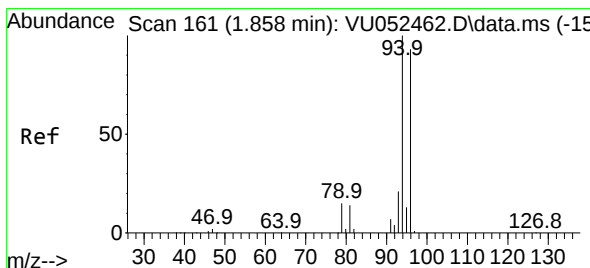
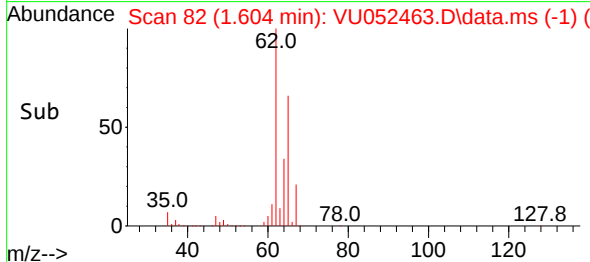
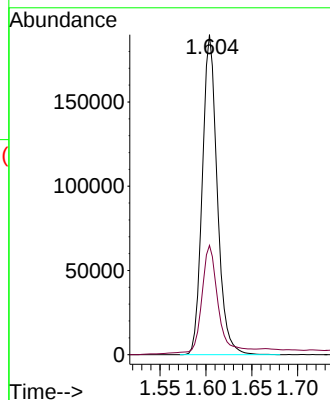
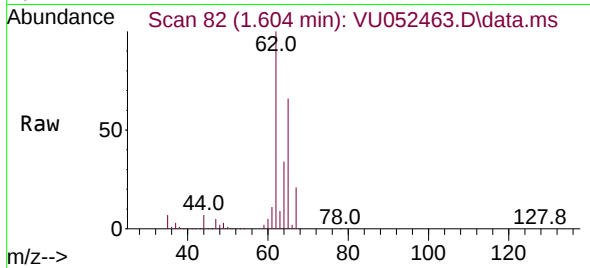




#5  
 Vinyl chloride  
 Concen: 10.288 ug/L  
 RT: 1.604 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: VU052463.D  
 Acq: 20 Dec 2022 17:08

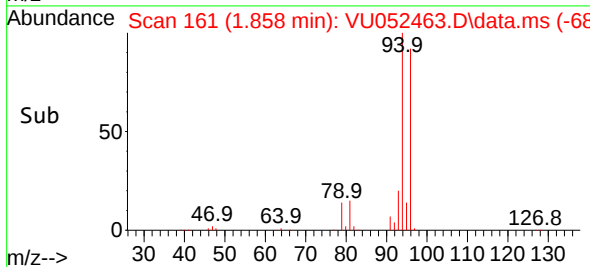
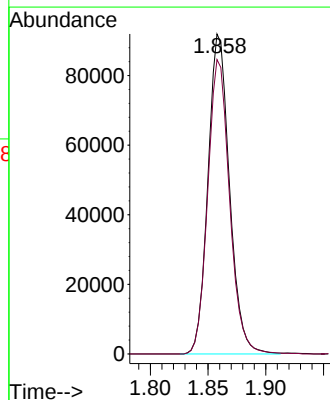
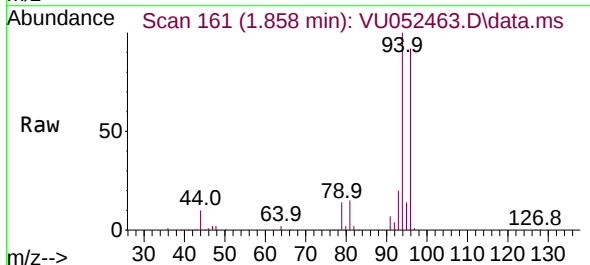
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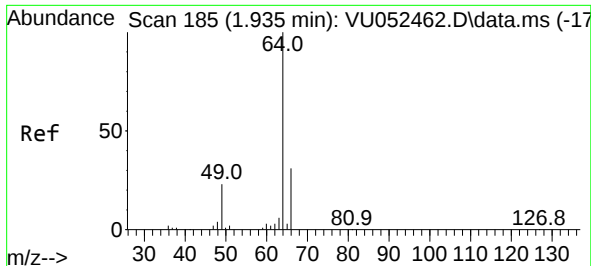
Tgt Ion: 62 Resp: 215265  
 Ion Ratio Lower Upper  
 62 100  
 64 34.1 24.4 45.4



#6  
 Bromomethane  
 Concen: 10.006 ug/L  
 RT: 1.858 min Scan# 161  
 Delta R.T. -0.000 min  
 Lab File: VU052463.D  
 Acq: 20 Dec 2022 17:08

Tgt Ion: 94 Resp: 119351  
 Ion Ratio Lower Upper  
 94 100  
 96 92.0 65.0 120.8

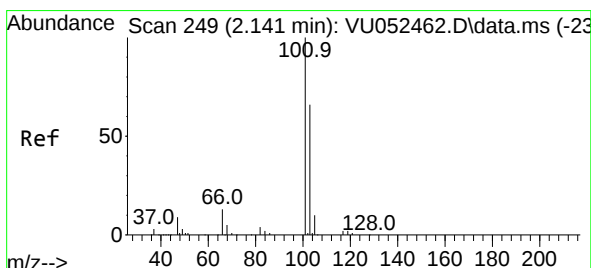
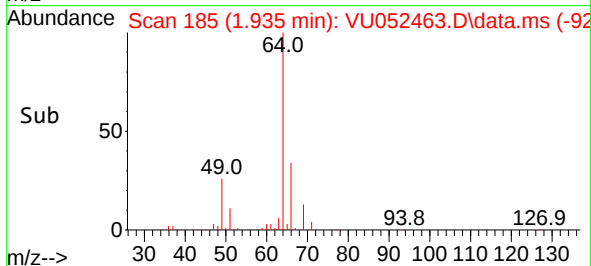
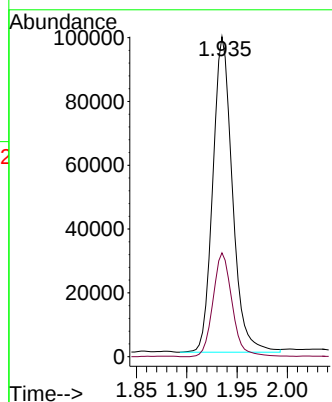
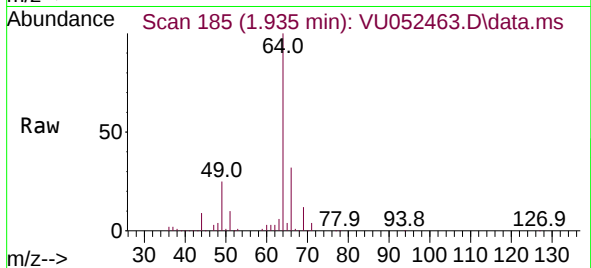




#8  
Chloroethane  
Concen: 9.362 ug/L  
RT: 1.935 min Scan# 185  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

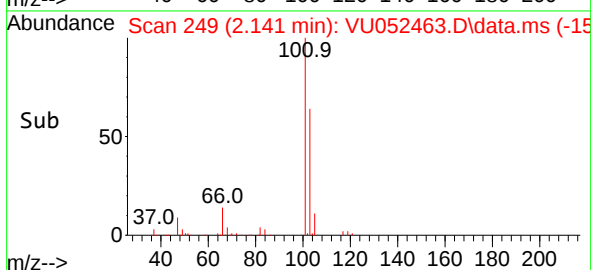
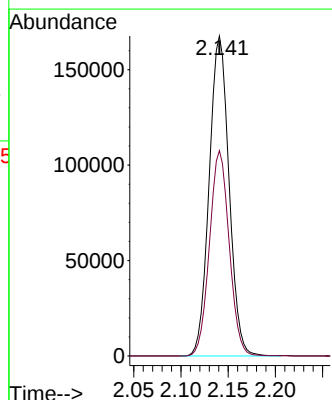
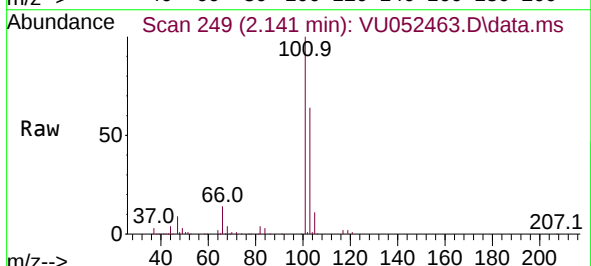
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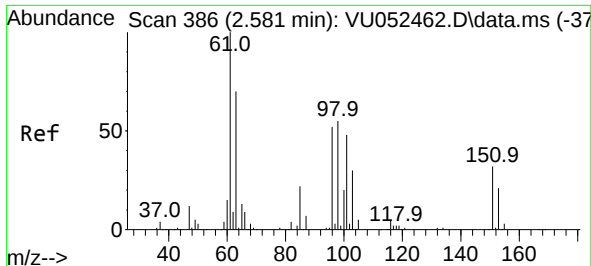
Tgt Ion: 64 Resp: 134163  
Ion Ratio Lower Upper  
64 100  
66 32.4 21.3 39.5



#9  
Trichlorofluoromethane  
Concen: 10.333 ug/L  
RT: 2.141 min Scan# 249  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

Tgt Ion:101 Resp: 244431  
Ion Ratio Lower Upper  
101 100  
103 63.8 52.0 78.0

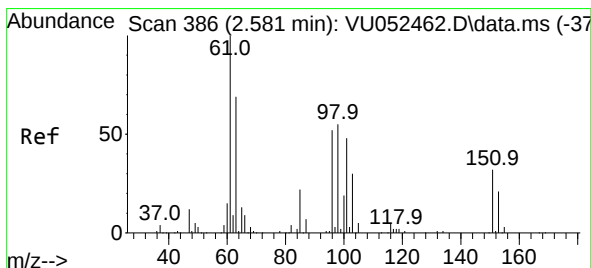
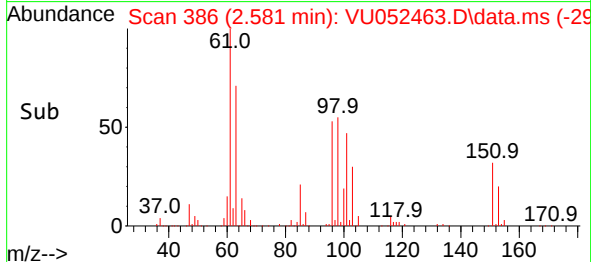
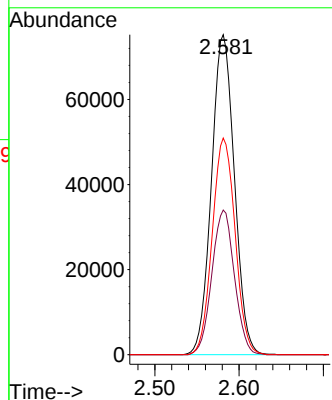
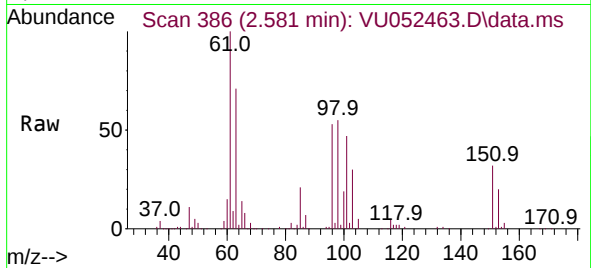




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 10.135 ug/L  
 RT: 2.581 min Scan# 386  
 Delta R.T. -0.000 min  
 Lab File: VU052463.D  
 Acq: 20 Dec 2022 17:08

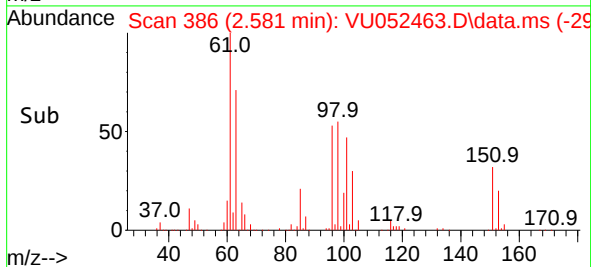
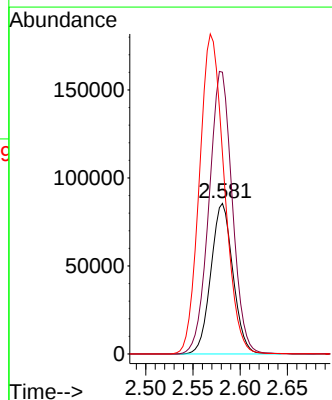
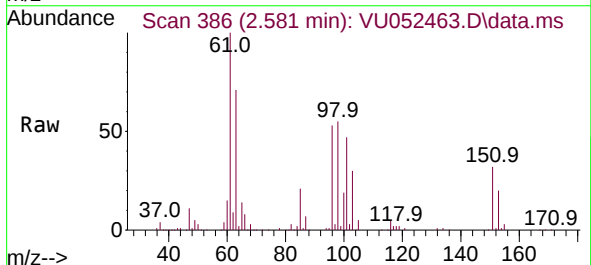
Instrument :  
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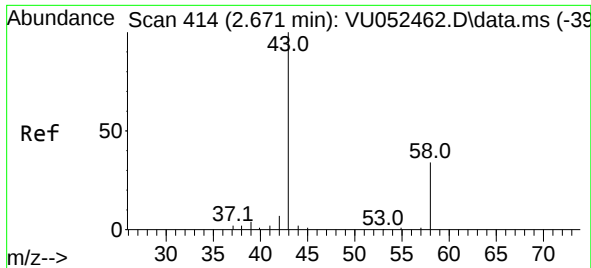
Tgt Ion:101 Resp: 142519  
 Ion Ratio Lower Upper  
 101 100  
 85 44.4 35.8 53.6  
 151 67.4 53.6 80.4



#12  
 1,1-Dichloroethene  
 Concen: 10.304 ug/L  
 RT: 2.581 min Scan# 386  
 Delta R.T. -0.000 min  
 Lab File: VU052463.D  
 Acq: 20 Dec 2022 17:08

Tgt Ion: 96 Resp: 138675  
 Ion Ratio Lower Upper  
 96 100  
 61 187.0 135.4 251.4  
 63 133.3 95.4 177.2





#13

Acetone

Concen: 93.394 ug/L

RT: 2.678 min Scan# 414

Delta R.T. 0.006 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

Instrument :

MSVOA\_U

ClientSampleId :

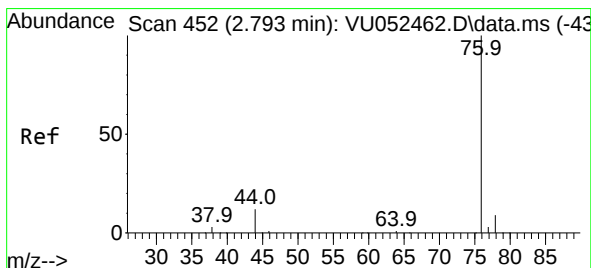
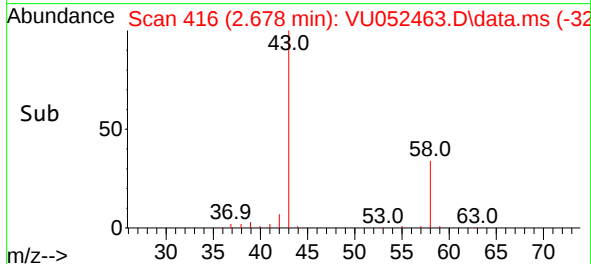
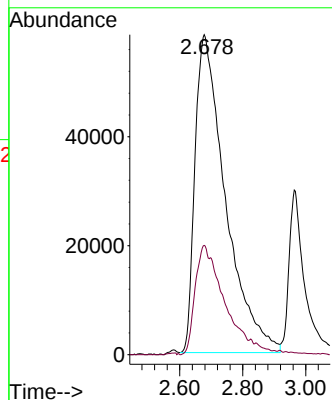
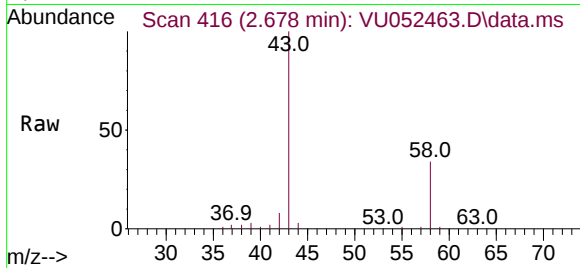
VSTD010077

Tgt Ion: 43 Resp: 391208

Ion Ratio Lower Upper

43 100

58 31.8 0.0 65.4



#14

Carbon disulfide

Concen: 10.298 ug/L

RT: 2.793 min Scan# 452

Delta R.T. -0.000 min

Lab File: VU052463.D

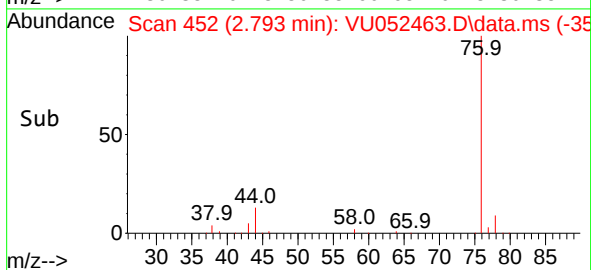
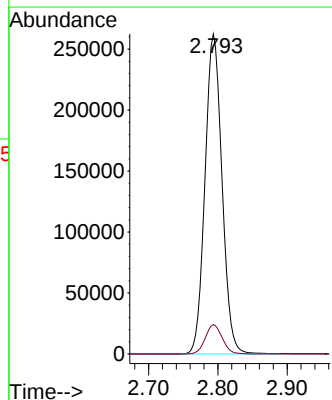
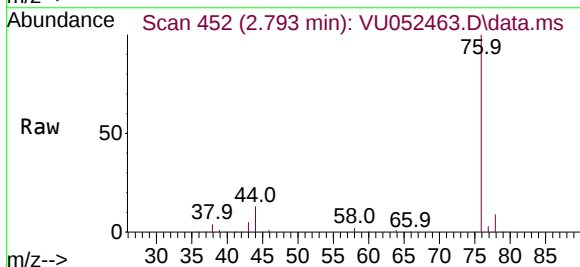
Acq: 20 Dec 2022 17:08

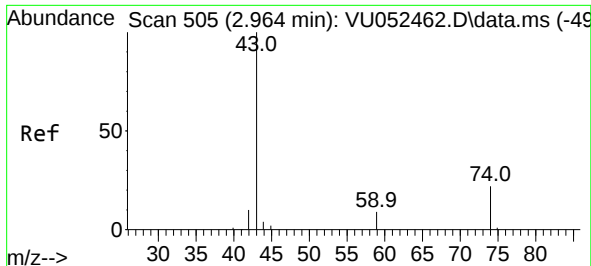
Tgt Ion: 76 Resp: 446580

Ion Ratio Lower Upper

76 100

78 9.2 7.1 10.7

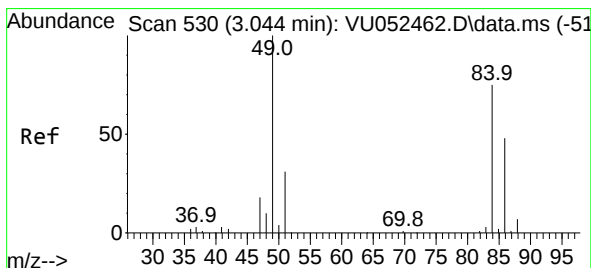
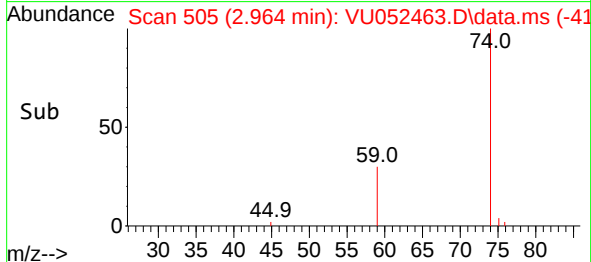
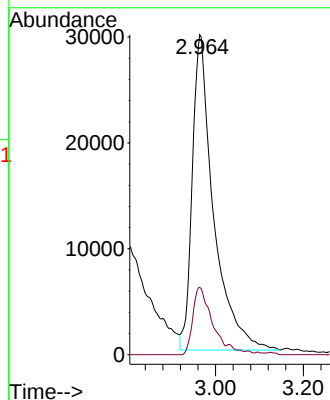
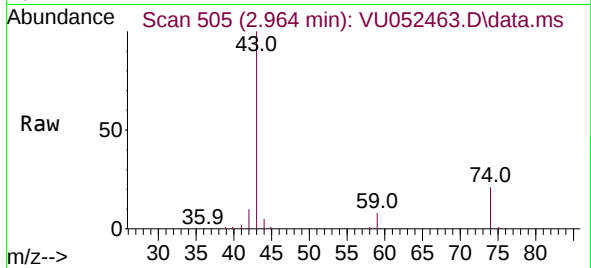




#15  
Methyl Acetate  
Concen: 11.041 ug/L  
RT: 2.964 min Scan# 505  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

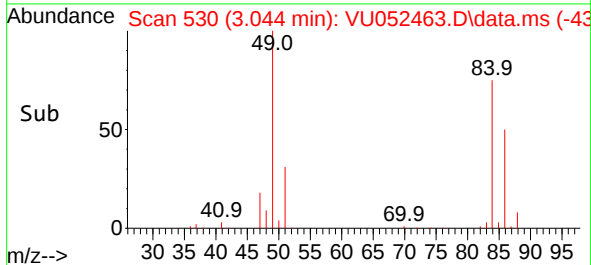
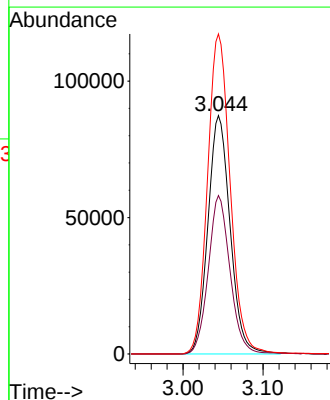
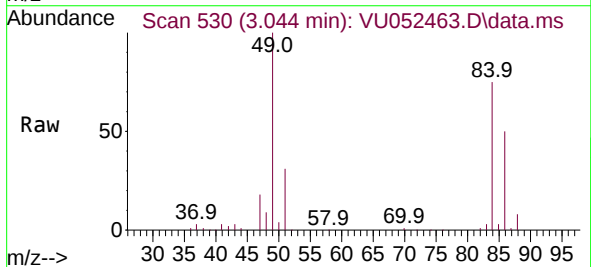
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010077

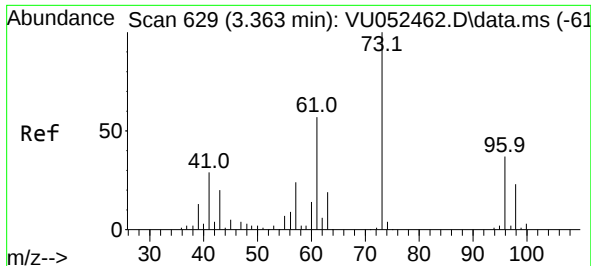
Tgt Ion: 43 Resp: 100203  
Ion Ratio Lower Upper  
43 100  
74 18.4 16.9 25.3



#16  
Methylene chloride  
Concen: 8.875 ug/L  
RT: 3.044 min Scan# 530  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

Tgt Ion: 84 Resp: 168739  
Ion Ratio Lower Upper  
84 100  
86 66.5 44.7 83.1  
49 134.2 93.3 173.3

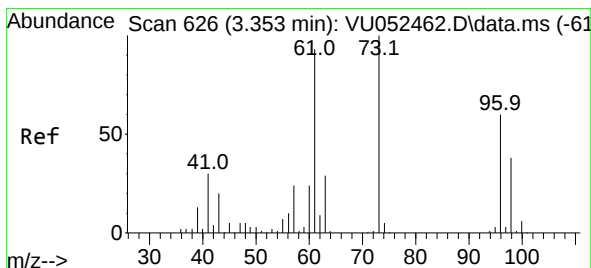
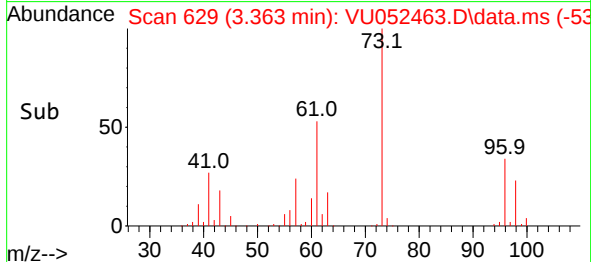
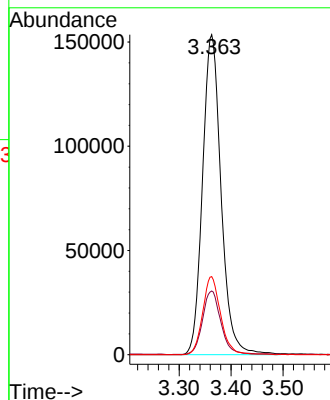
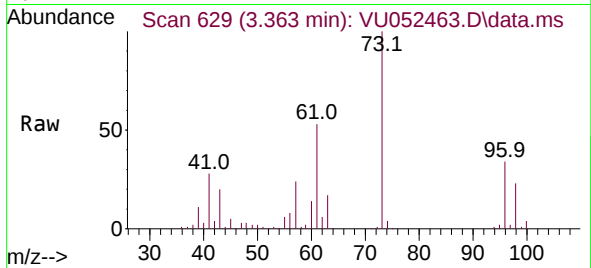




#17  
Methyl tert-butyl Ether  
Concen: 10.591 ug/L  
RT: 3.363 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

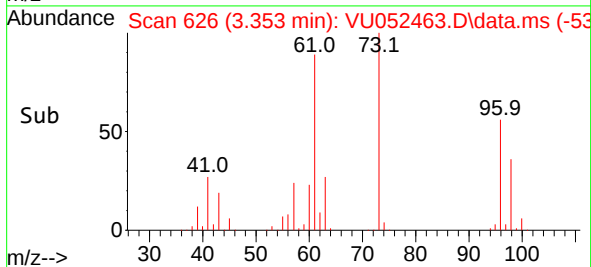
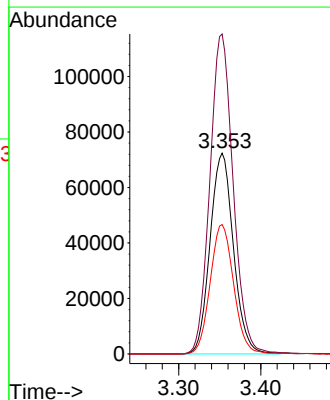
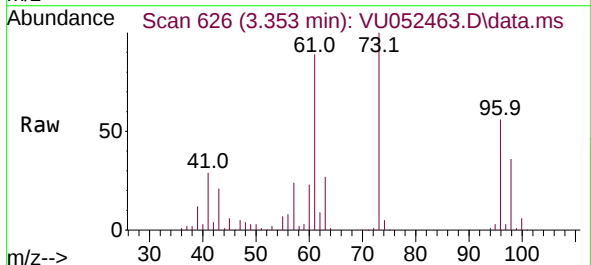
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010077

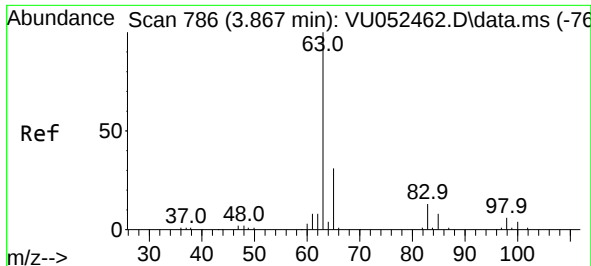
Tgt Ion: 73 Resp: 380513  
Ion Ratio Lower Upper  
73 100  
43 19.6 16.1 24.1  
57 23.5 19.2 28.8



#18  
trans-1,2-Dichloroethene  
Concen: 10.376 ug/L  
RT: 3.353 min Scan# 626  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

Tgt Ion: 96 Resp: 143926  
Ion Ratio Lower Upper  
96 100  
61 159.3 108.3 201.1  
98 64.4 44.0 81.6





#19

1,1-Dichloroethane

Concen: 10.267 ug/L

RT: 3.867 min Scan# 786

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

Instrument :

MSVOA\_U

ClientSampleId :

VSTD010077

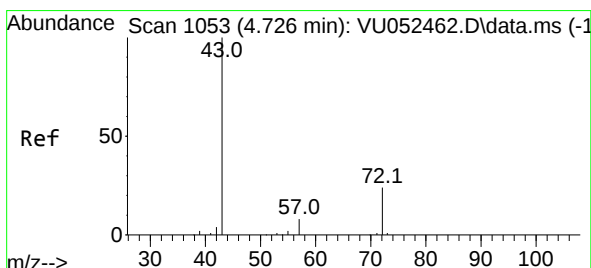
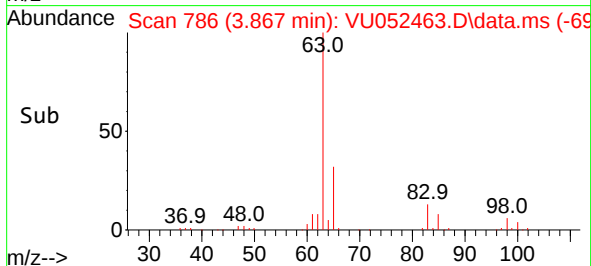
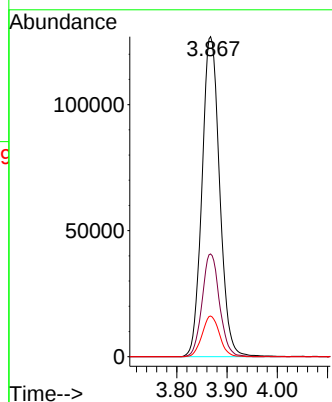
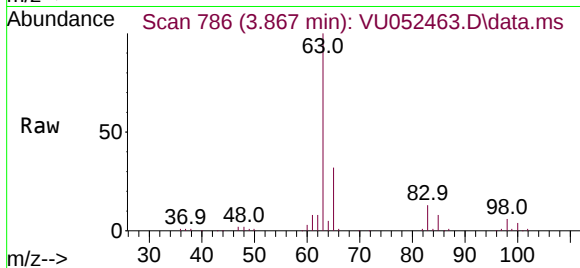
Tgt Ion: 63 Resp: 309721

Ion Ratio Lower Upper

63 100

65 32.1 22.0 40.8

83 12.7 9.0 16.8



#21

2-Butanone

Concen: 112.865 ug/L

RT: 4.726 min Scan# 1053

Delta R.T. -0.000 min

Lab File: VU052463.D

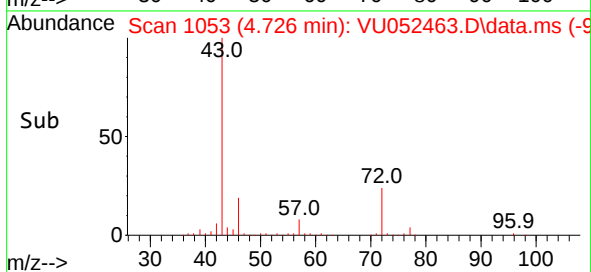
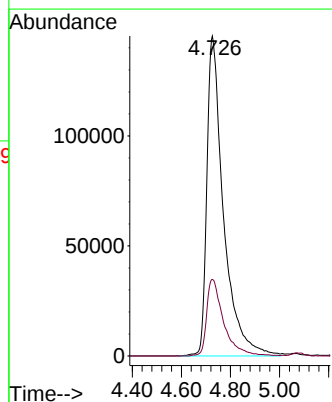
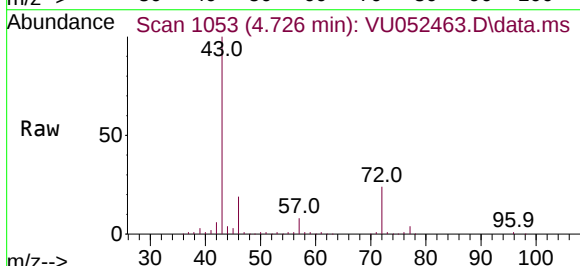
Acq: 20 Dec 2022 17:08

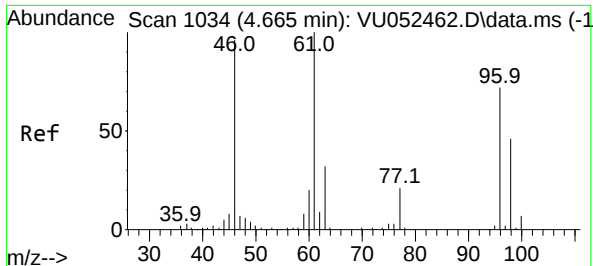
Tgt Ion: 43 Resp: 684019

Ion Ratio Lower Upper

43 100

72 24.3 11.6 34.7

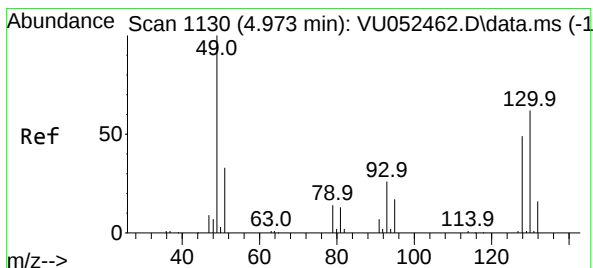
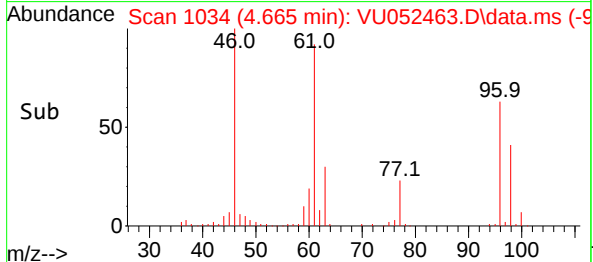
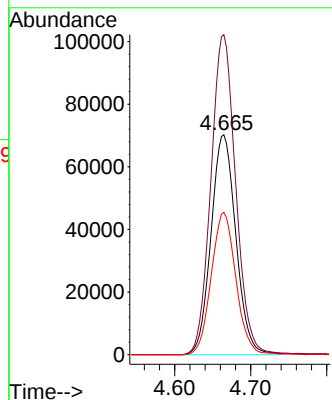
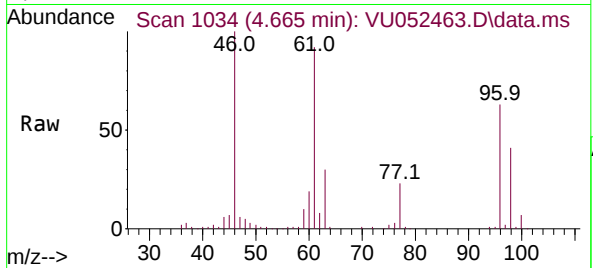




#22  
 cis-1,2-Dichloroethene  
 Concen: 10.480 ug/L  
 RT: 4.665 min Scan# 1034  
 Delta R.T. -0.000 min  
 Lab File: VU052463.D  
 Acq: 20 Dec 2022 17:08

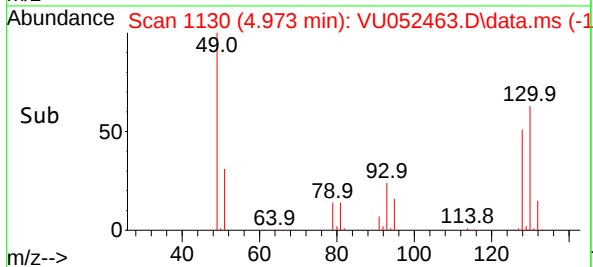
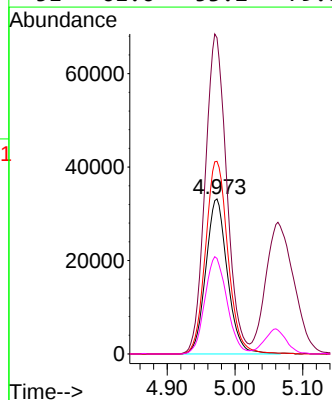
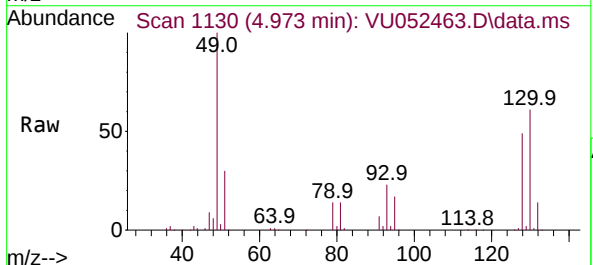
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010077

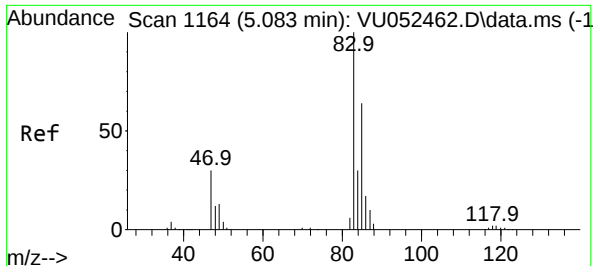
Tgt Ion: 96 Resp: 159534  
 Ion Ratio Lower Upper  
 96 100  
 61 145.5 96.9 180.1  
 98 64.8 44.7 83.1



#23  
 Bromochloromethane  
 Concen: 10.423 ug/L  
 RT: 4.973 min Scan# 1130  
 Delta R.T. -0.000 min  
 Lab File: VU052463.D  
 Acq: 20 Dec 2022 17:08

Tgt Ion:128 Resp: 73531  
 Ion Ratio Lower Upper  
 128 100  
 49 203.8 143.3 266.1  
 130 124.2 88.4 164.2  
 51 61.6 53.2 79.8





#25

Chloroform

Concen: 10.089 ug/L

RT: 5.083 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

Instrument :

MSVOA\_U

ClientSampleId :

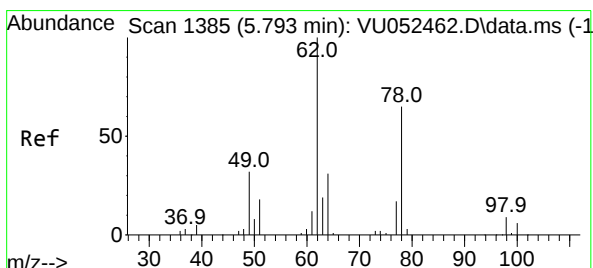
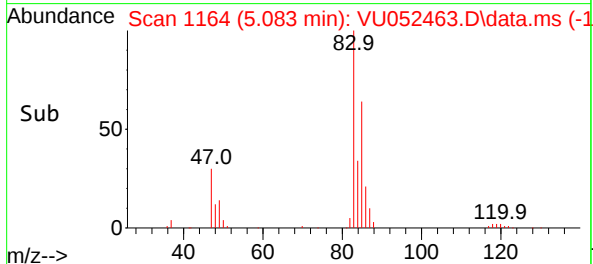
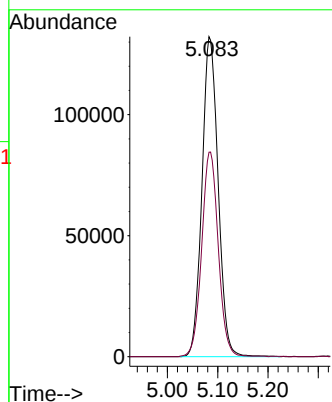
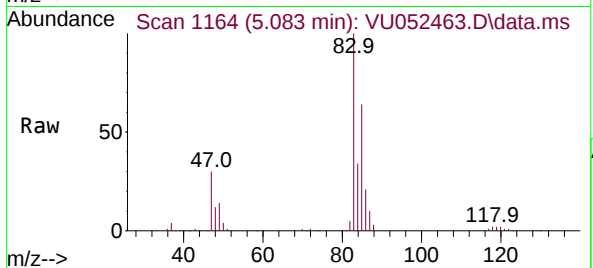
VSTD010077

Tgt Ion: 83 Resp: 294866

Ion Ratio Lower Upper

83 100

85 63.9 44.7 83.1



#27

1,2-Dichloroethane

Concen: 10.225 ug/L

RT: 5.790 min Scan# 1384

Delta R.T. -0.003 min

Lab File: VU052463.D

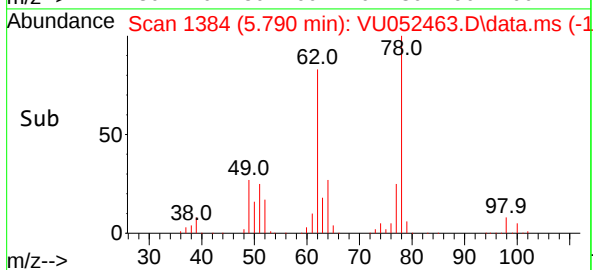
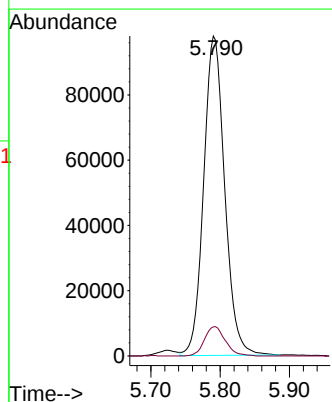
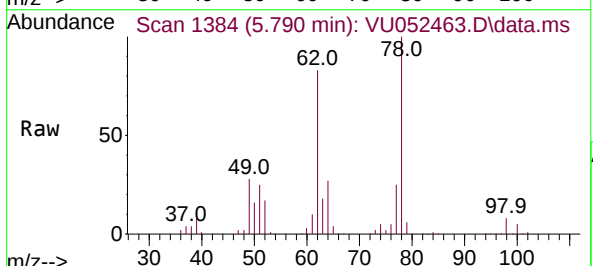
Acq: 20 Dec 2022 17:08

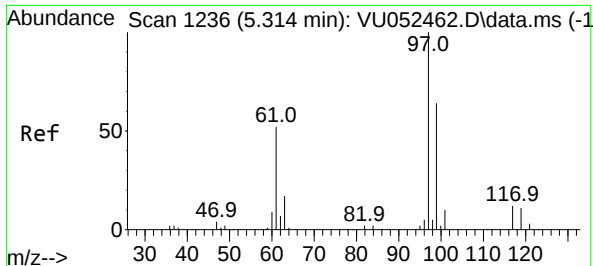
Tgt Ion: 62 Resp: 206478

Ion Ratio Lower Upper

62 100

98 9.1 7.4 11.2





#29

1,1,1-Trichloroethane

Concen: 10.509 ug/L

RT: 5.314 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

Instrument :

MSVOA\_U

ClientSampleId :

VSTD010077

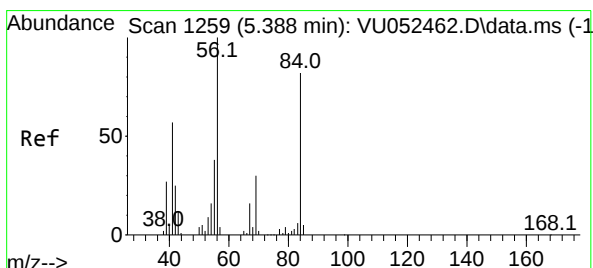
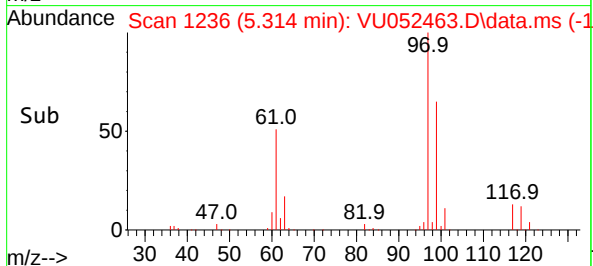
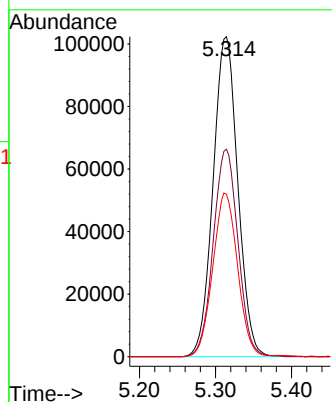
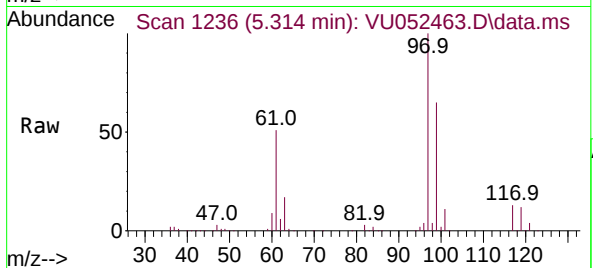
Tgt Ion: 97 Resp: 231323

Ion Ratio Lower Upper

97 100

99 64.8 52.2 78.2

61 51.2 41.6 62.4



#30

Cyclohexane

Concen: 11.408 ug/L

RT: 5.388 min Scan# 1259

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

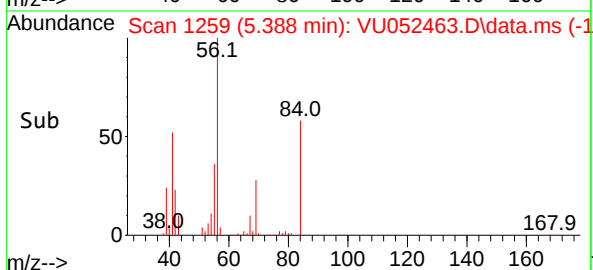
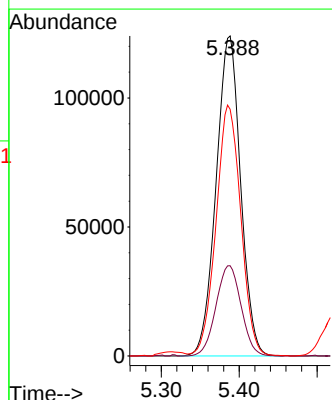
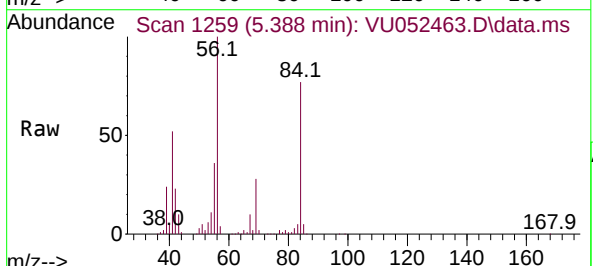
Tgt Ion: 56 Resp: 271353

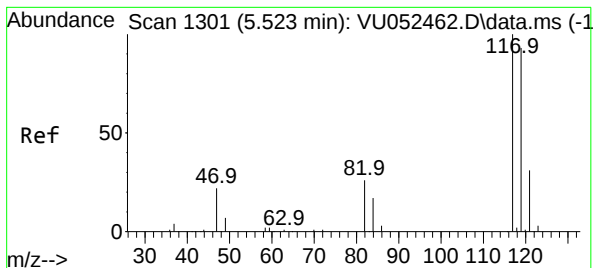
Ion Ratio Lower Upper

56 100

69 28.9 23.0 34.6

84 79.3 64.4 96.6





#31

Carbon tetrachloride

Concen: 10.389 ug/L

RT: 5.523 min Scan# 1301

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

Instrument :

MSVOA\_U

ClientSampleId :

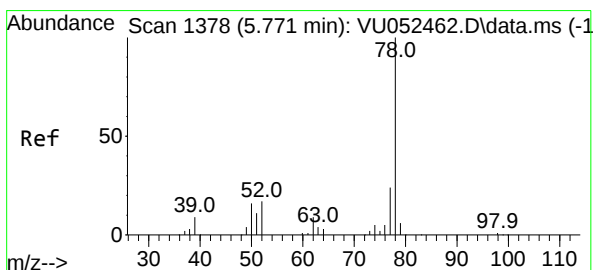
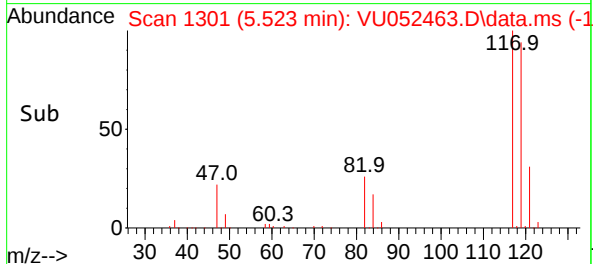
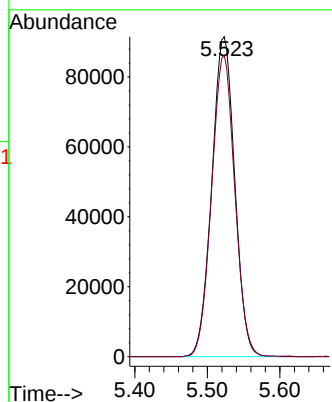
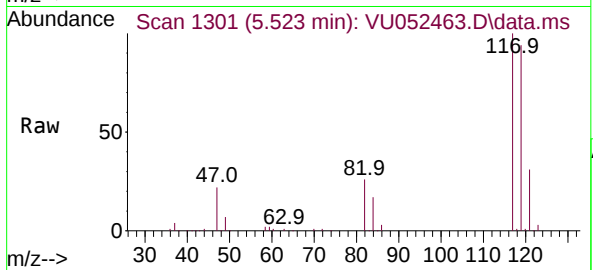
VSTD010077

Tgt Ion:117 Resp: 200939

Ion Ratio Lower Upper

117 100

119 95.3 76.3 114.5



#33

Benzene

Concen: 10.642 ug/L

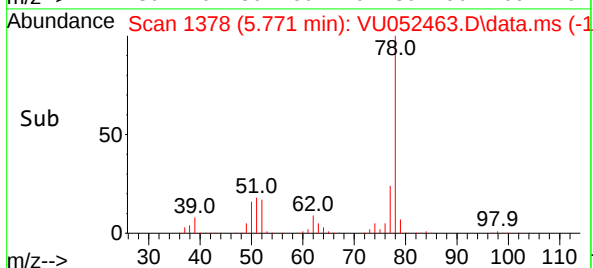
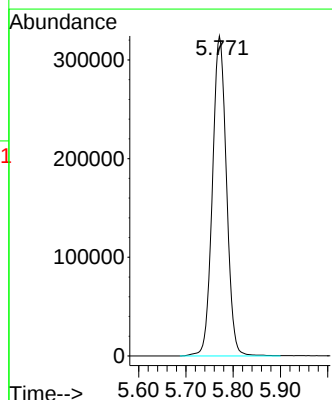
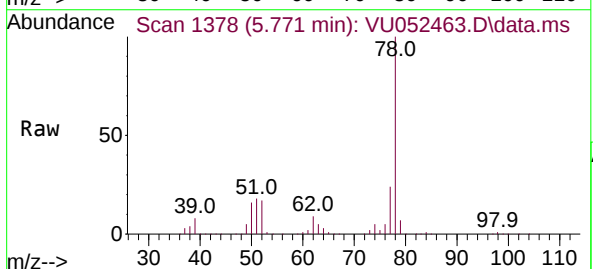
RT: 5.771 min Scan# 1378

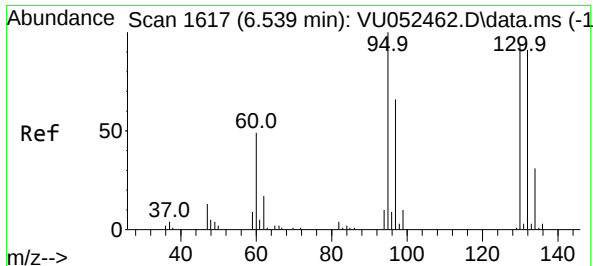
Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

Tgt Ion: 78 Resp: 670348

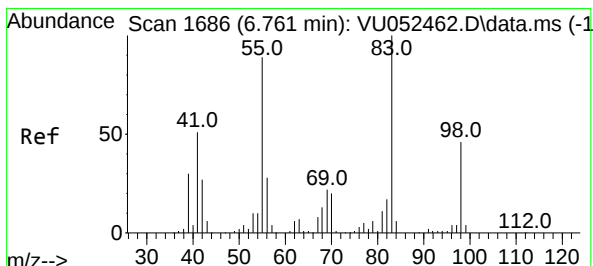
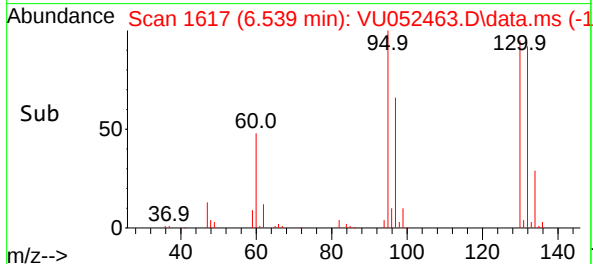
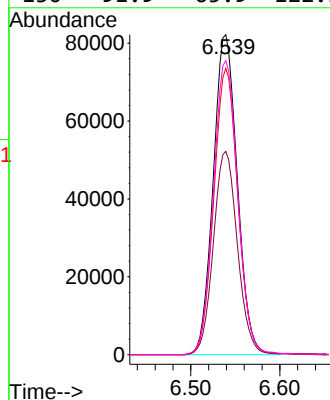
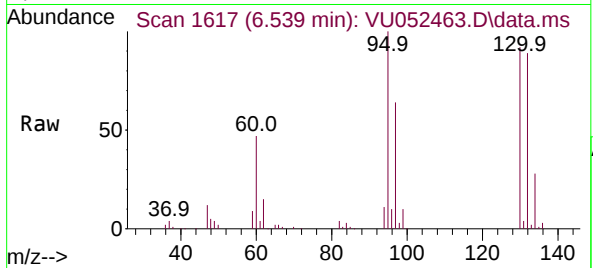




#34  
Trichloroethene  
Concen: 10.470 ug/L  
RT: 6.539 min Scan# 1617  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

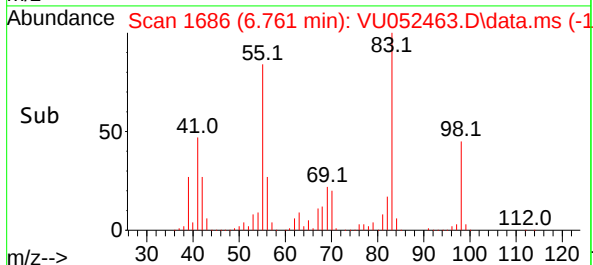
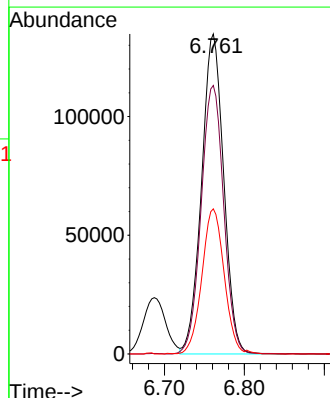
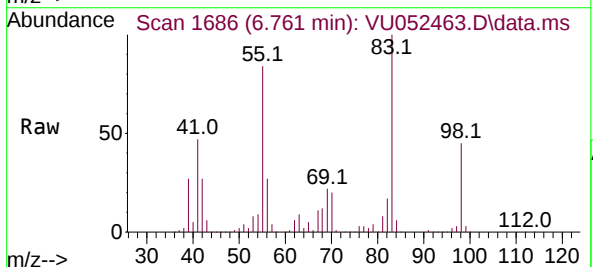
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010077

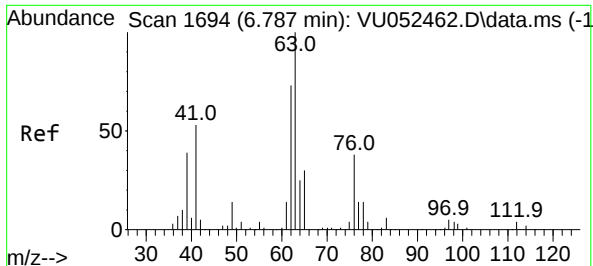
Tgt Ion: 95 Resp: 154176  
Ion Ratio Lower Upper  
95 100  
97 63.5 46.3 86.1  
132 89.4 63.9 118.7  
130 91.9 65.9 122.5



#35  
Methylcyclohexane  
Concen: 11.701 ug/L  
RT: 6.761 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

Tgt Ion: 83 Resp: 259842  
Ion Ratio Lower Upper  
83 100  
55 85.6 71.4 107.0  
98 45.8 36.5 54.7





#37

1,2-Dichloropropane

Concen: 10.728 ug/L

RT: 6.787 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

Instrument :

MSVOA\_U

ClientSampleId :

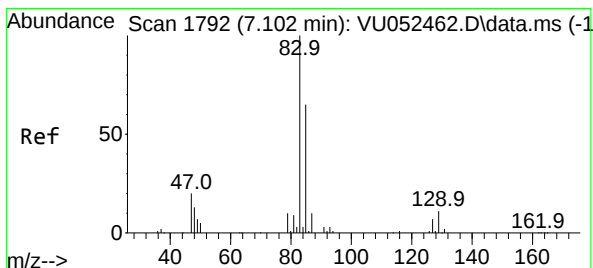
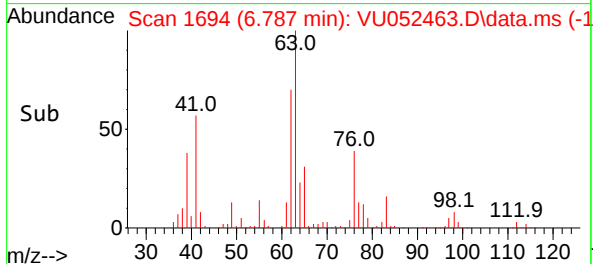
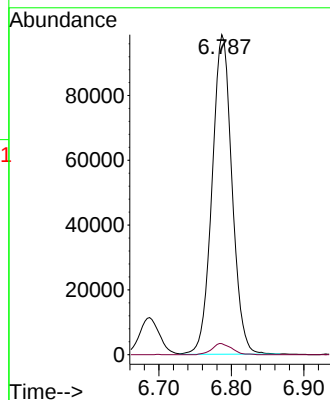
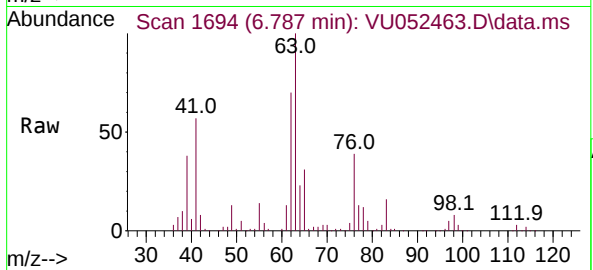
VSTD010077

Tgt Ion: 63 Resp: 188565

Ion Ratio Lower Upper

63 100

112 3.5 3.0 4.6



#38

Bromodichloromethane

Concen: 10.248 ug/L

RT: 7.102 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

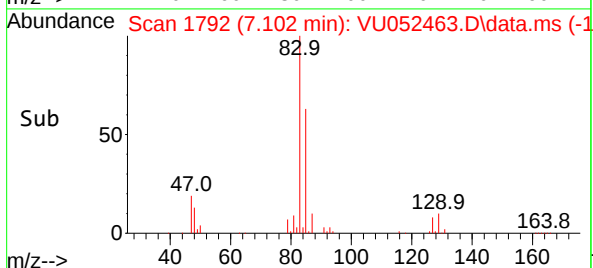
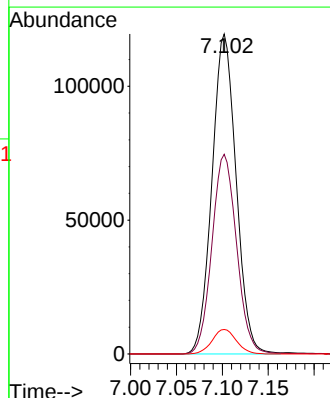
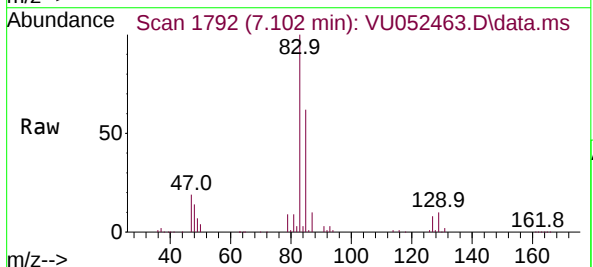
Tgt Ion: 83 Resp: 219245

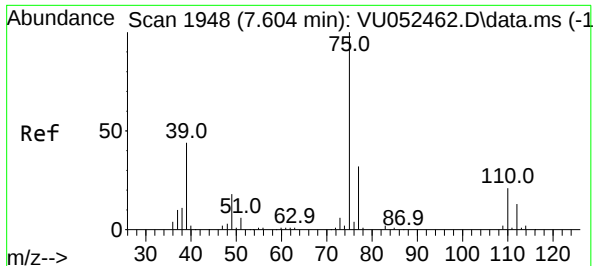
Ion Ratio Lower Upper

83 100

85 62.4 45.2 84.0

127 7.7 5.8 8.6





#39

cis-1,3-Dichloropropene

Concen: 11.012 ug/L

RT: 7.604 min Scan# 1948

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

Instrument :

MSVOA\_U

ClientSampleId :

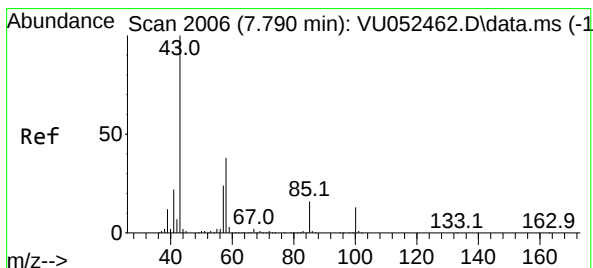
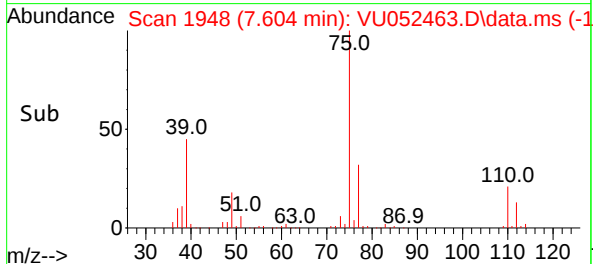
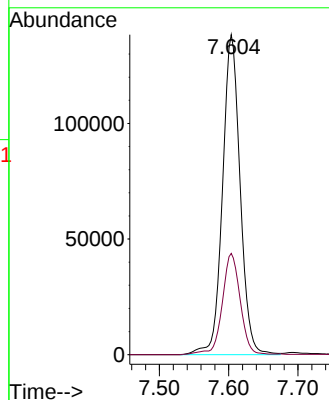
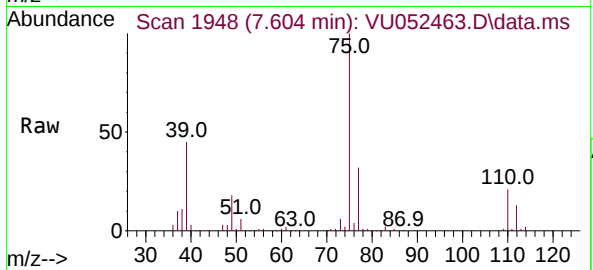
VSTD010077

Tgt Ion: 75 Resp: 245151

Ion Ratio Lower Upper

75 100

77 31.6 22.0 41.0



#40

4-Methyl-2-pentanone

Concen: 115.789 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

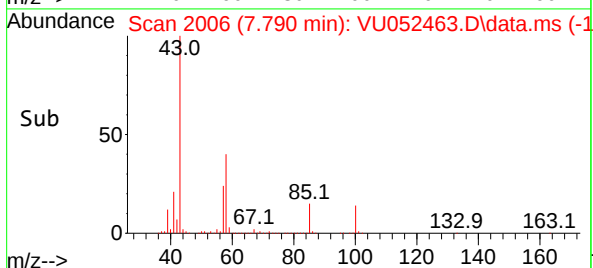
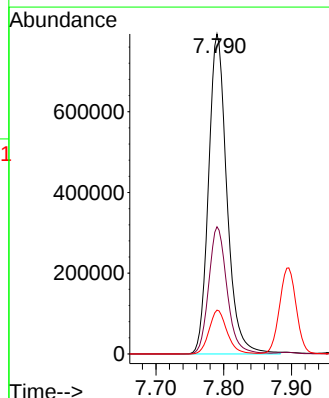
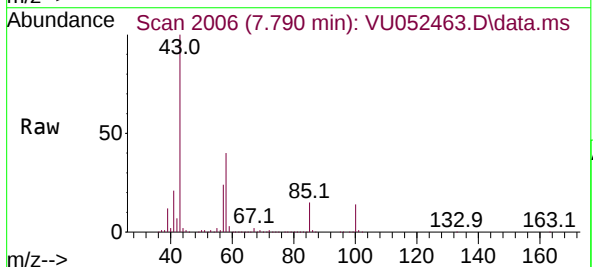
Tgt Ion: 43 Resp: 1487293

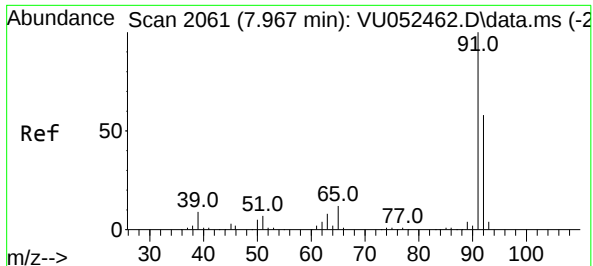
Ion Ratio Lower Upper

43 100

58 39.8 30.6 45.8

100 13.5 10.4 15.6





#42

Toluene

Concen: 11.178 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

Instrument :

MSVOA\_U

ClientSampleId :

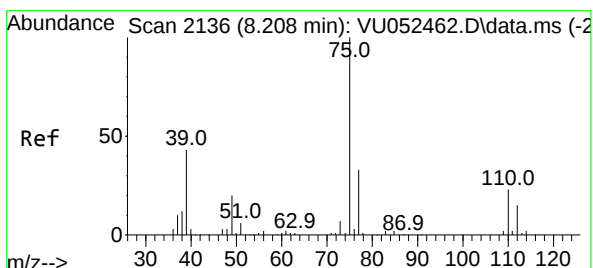
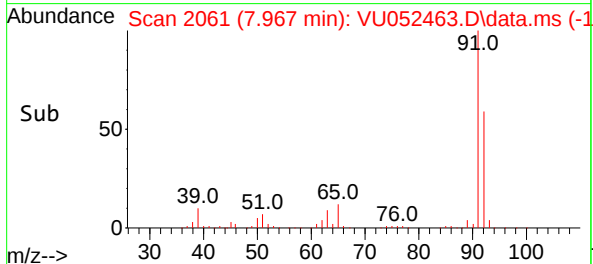
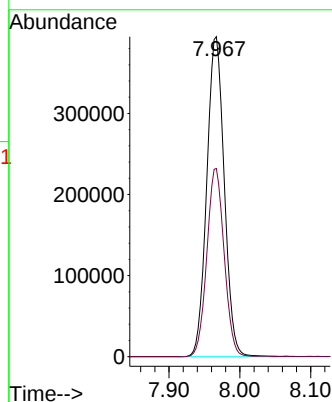
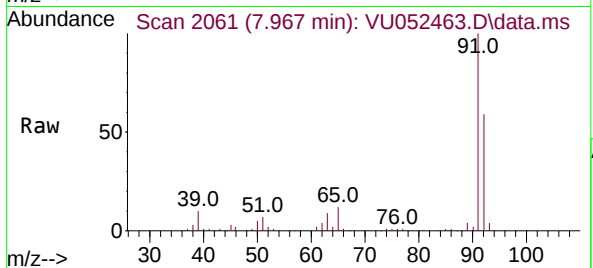
VSTD010077

Tgt Ion: 91 Resp: 675109

Ion Ratio Lower Upper

91 100

92 58.8 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 11.212 ug/L

RT: 8.205 min Scan# 2135

Delta R.T. -0.003 min

Lab File: VU052463.D

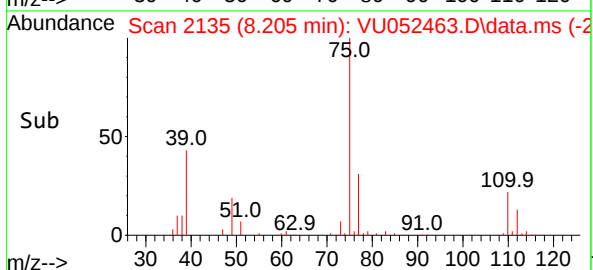
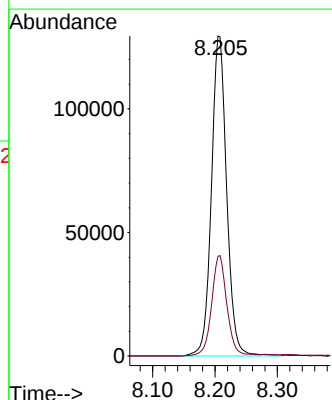
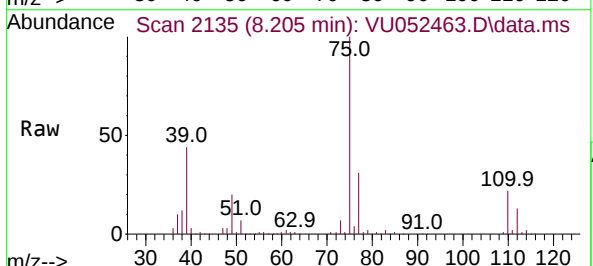
Acq: 20 Dec 2022 17:08

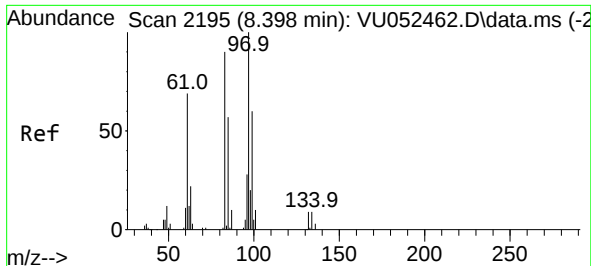
Tgt Ion: 75 Resp: 219961

Ion Ratio Lower Upper

75 100

77 31.1 22.8 42.4

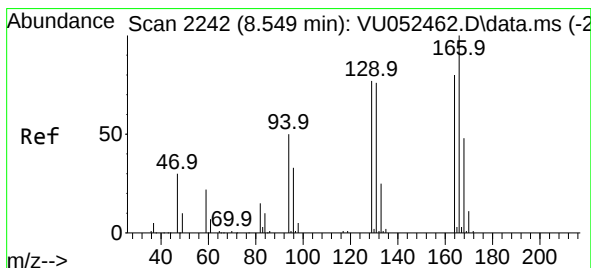
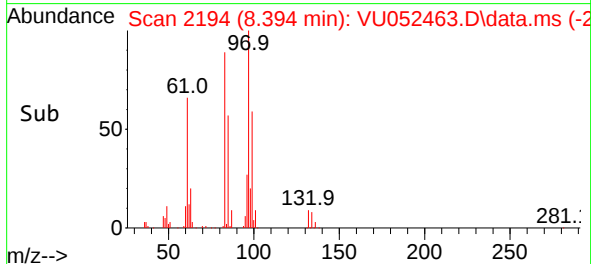
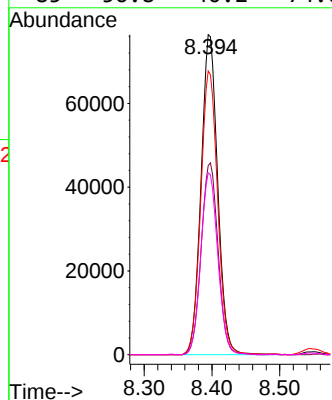
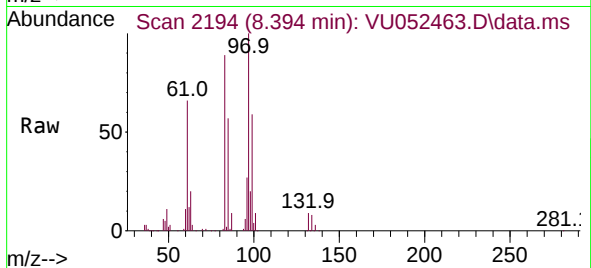




#45  
1,1,2-Trichloroethane  
Concen: 10.439 ug/L  
RT: 8.394 min Scan# 2195  
Delta R.T. -0.003 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

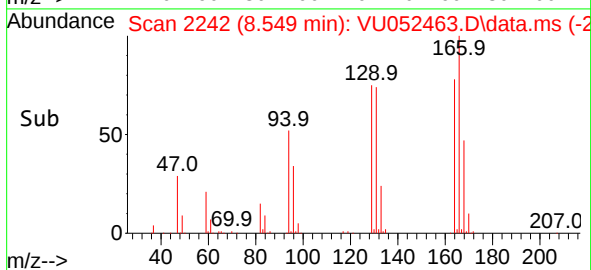
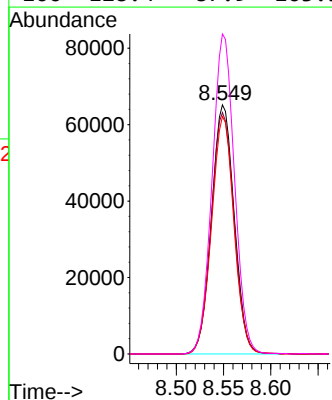
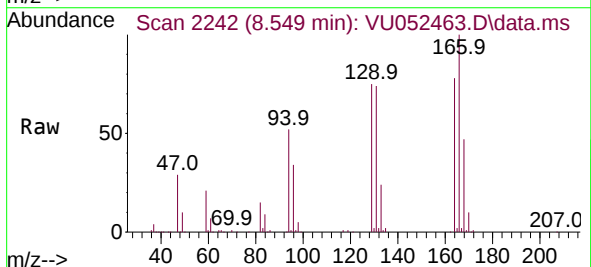
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010077

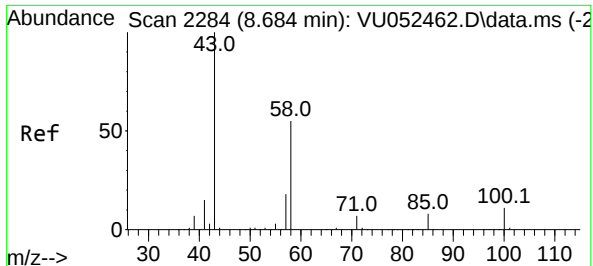
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 129957 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 59.1  | 42.0  | 78.0   |
| 83       | 88.6  | 63.2  | 117.4  |
| 85       | 56.8  | 40.2  | 74.6   |



#47  
Tetrachloroethene  
Concen: 10.600 ug/L  
RT: 8.549 min Scan# 2242  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 108964 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 96.9  | 68.1  | 126.5  |
| 131      | 95.3  | 66.5  | 123.5  |
| 166      | 128.4 | 87.9  | 163.3  |



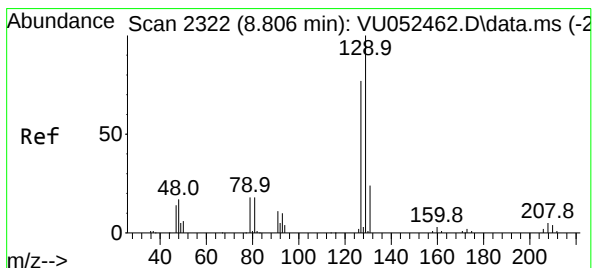
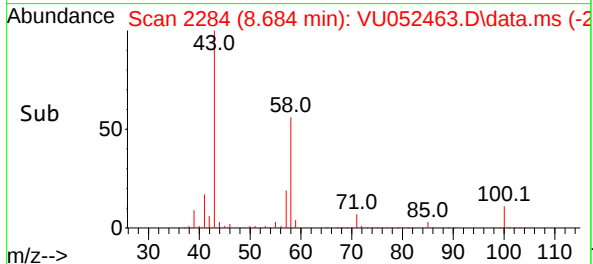
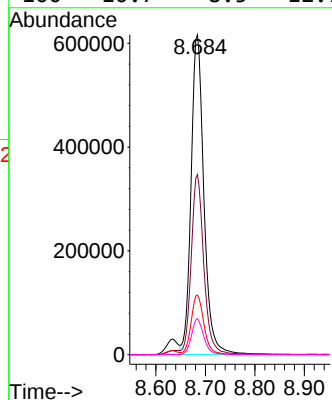
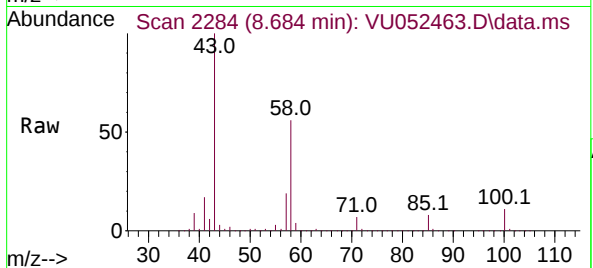


#48  
2-Hexanone  
Concen: 115.771 ug/L  
RT: 8.684 min Scan# 2110  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010077

Tgt Ion: 43 Resp: 1109870

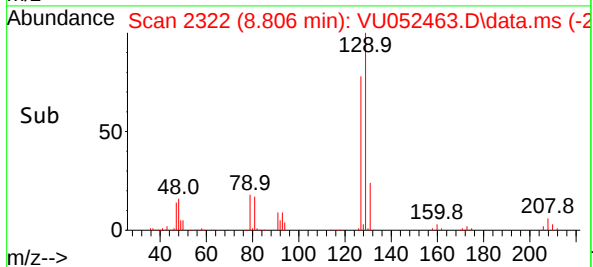
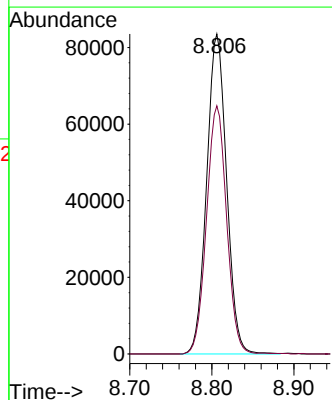
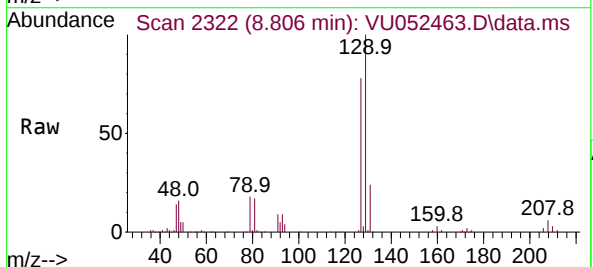
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 55.2  | 44.1  | 66.1  |
| 57  | 18.8  | 14.6  | 21.8  |
| 100 | 10.7  | 8.5   | 12.7  |

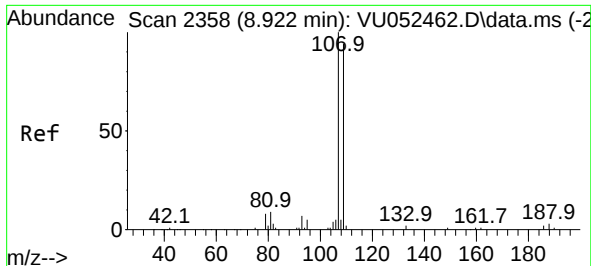


#49  
Dibromochloromethane  
Concen: 10.693 ug/L  
RT: 8.806 min Scan# 2322  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

Tgt Ion: 129 Resp: 140960

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 77.6  | 54.2  | 100.6 |

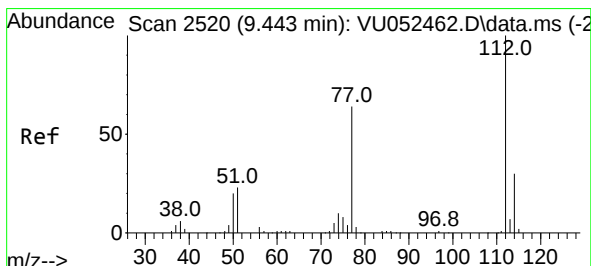
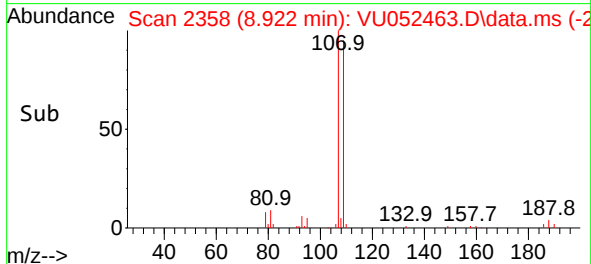
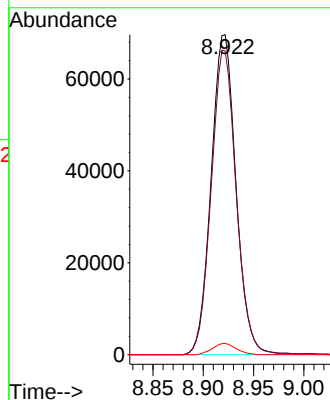
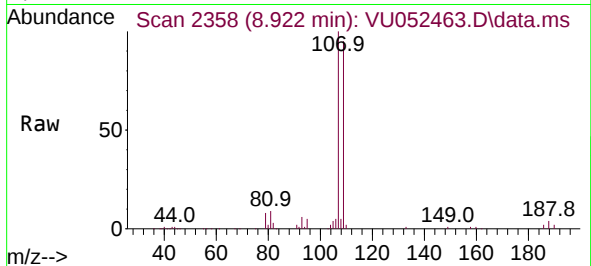




#50  
1,2-Dibromoethane  
Concen: 10.556 ug/L  
RT: 8.922 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

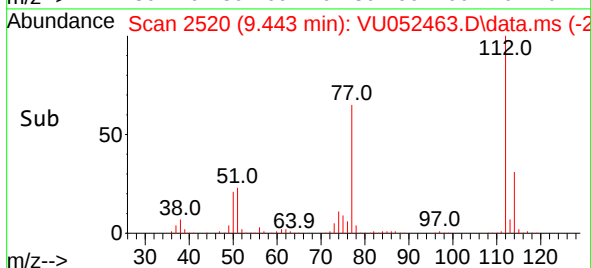
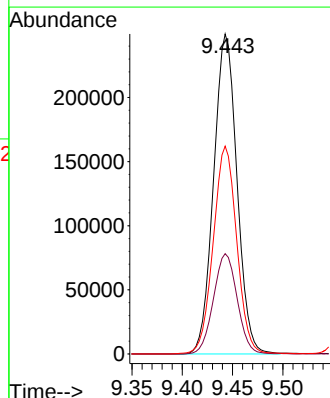
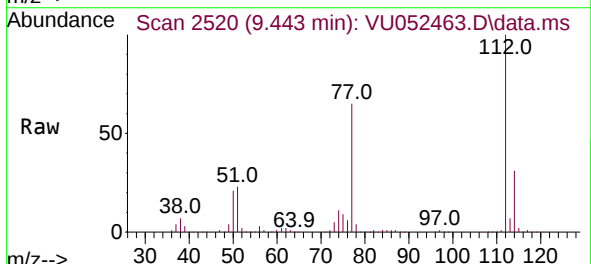
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010077

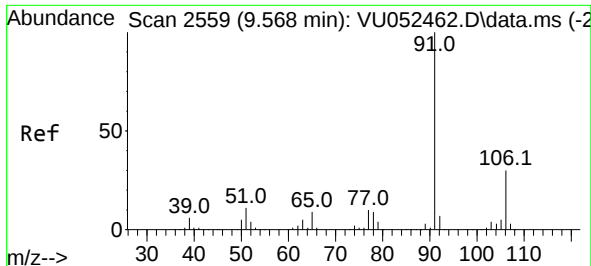
Tgt Ion:107 Resp: 119460  
Ion Ratio Lower Upper  
107 100  
109 95.0 65.8 122.2  
188 3.5 2.3 3.5#



#51  
Chlorobenzene  
Concen: 10.451 ug/L  
RT: 9.443 min Scan# 2520  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

Tgt Ion:112 Resp: 403097  
Ion Ratio Lower Upper  
112 100  
114 31.4 21.3 39.5  
77 64.9 51.0 76.6

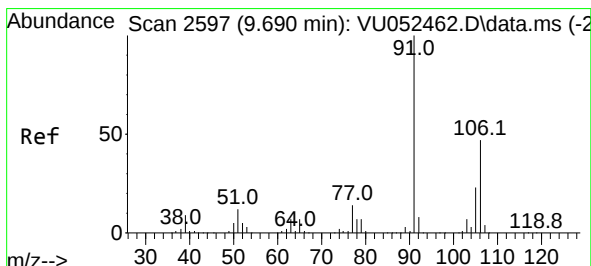
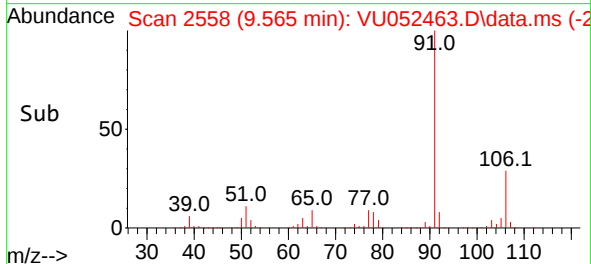
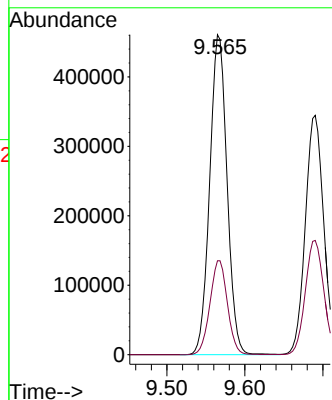
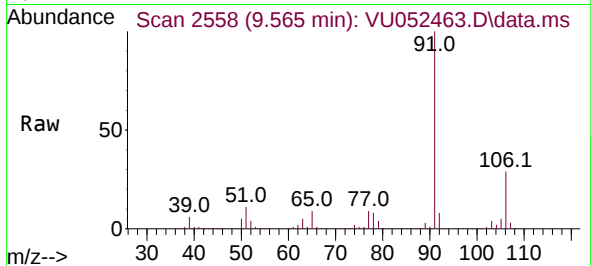




#52  
Ethylbenzene  
Concen: 11.398 ug/L  
RT: 9.565 min Scan# 2558  
Delta R.T. -0.003 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

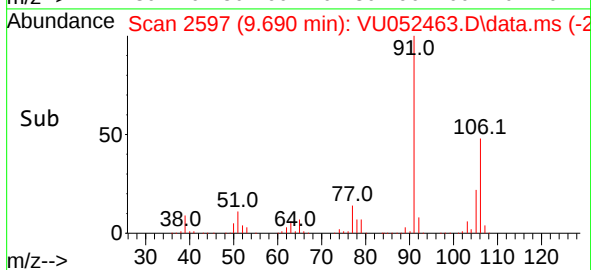
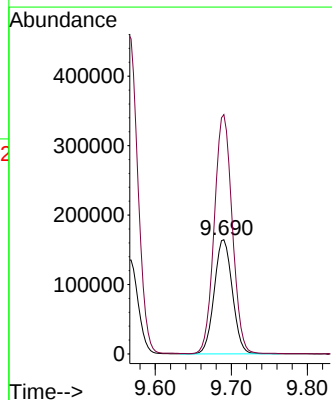
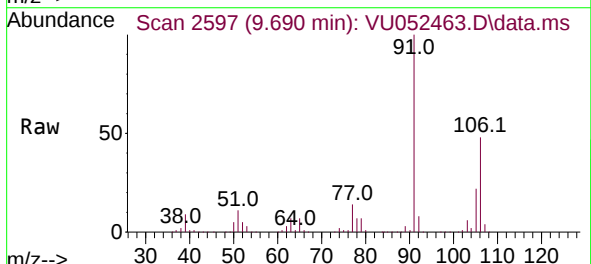
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010077

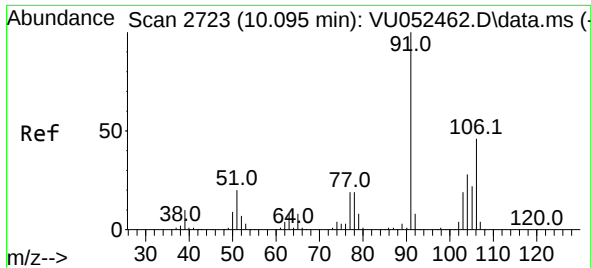
Tgt Ion: 91 Resp: 712432  
Ion Ratio Lower Upper  
91 100  
106 29.4 20.9 38.7



#53  
m,p-Xylene  
Concen: 11.792 ug/L  
RT: 9.690 min Scan# 2597  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

Tgt Ion: 106 Resp: 271773  
Ion Ratio Lower Upper  
106 100  
91 209.7 148.2 275.2

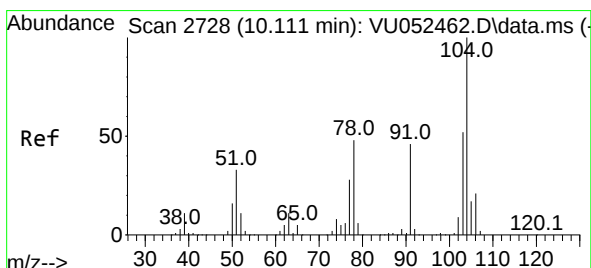
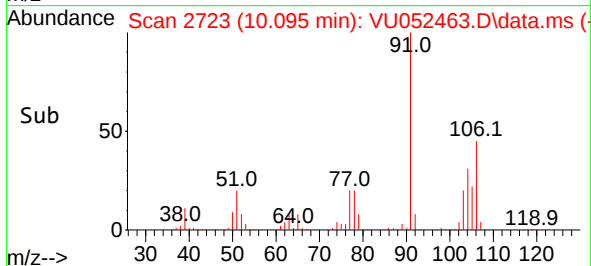
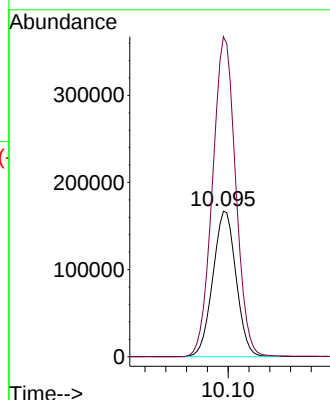
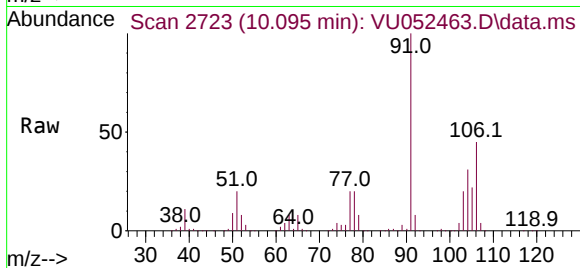




#54  
o-Xylene  
Concen: 11.735 ug/L  
RT: 10.095 min Scan# 2723  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

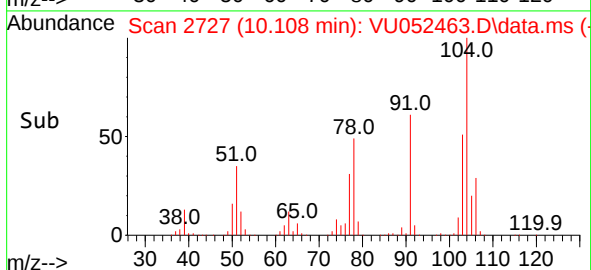
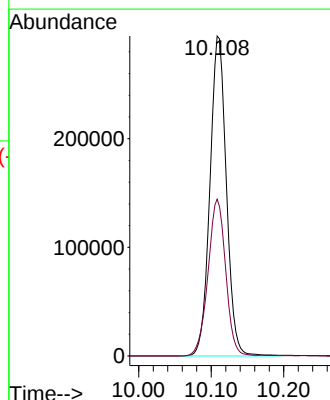
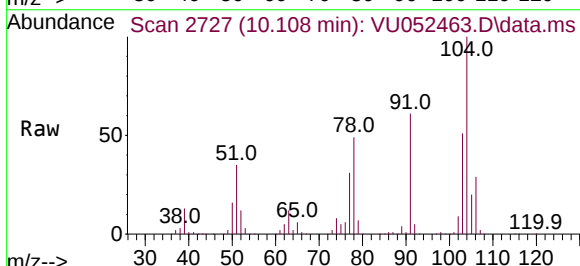
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010077

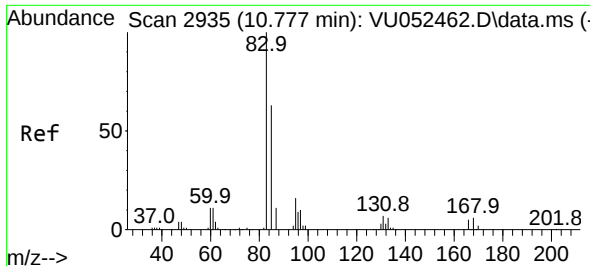
Tgt Ion:106 Resp: 259277  
Ion Ratio Lower Upper  
106 100  
91 220.0 153.2 284.4



#55  
Styrene  
Concen: 12.068 ug/L  
RT: 10.108 min Scan# 2727  
Delta R.T. -0.003 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

Tgt Ion:104 Resp: 463868  
Ion Ratio Lower Upper  
104 100  
78 49.0 33.4 62.0

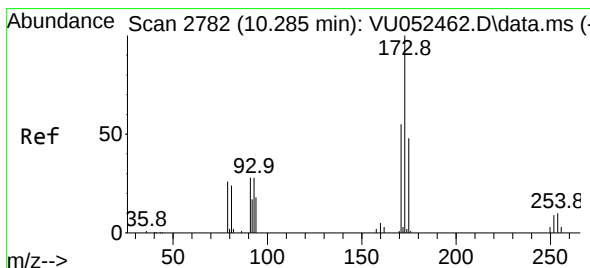
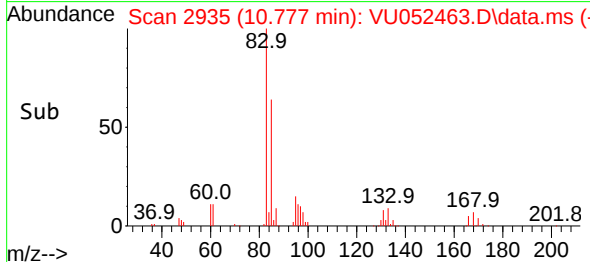
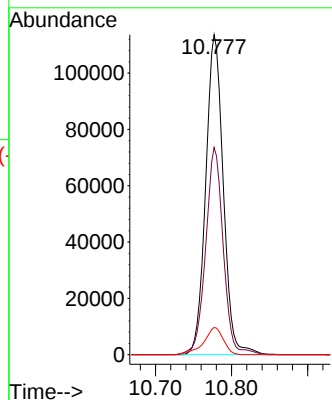
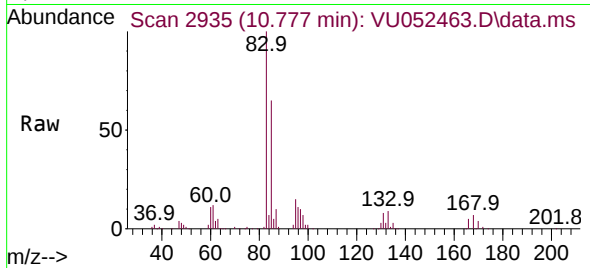




#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 10.585 ug/L  
 RT: 10.777 min Scan# 2935  
 Delta R.T. -0.000 min  
 Lab File: VU052463.D  
 Acq: 20 Dec 2022 17:08

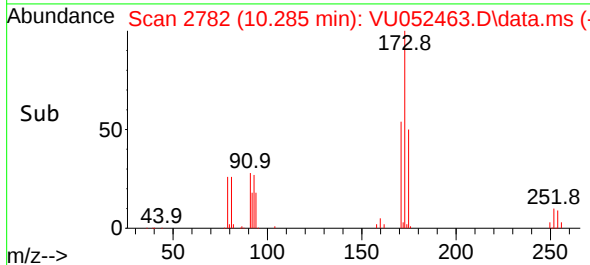
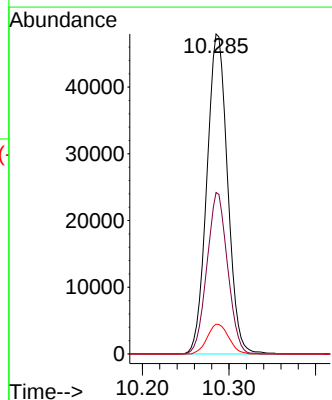
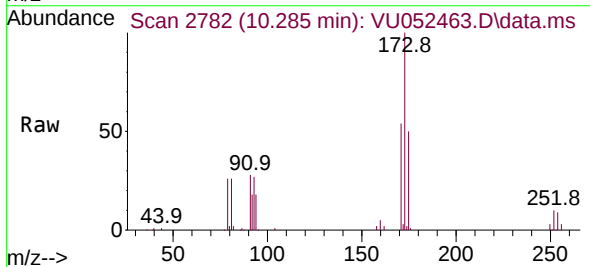
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD010077

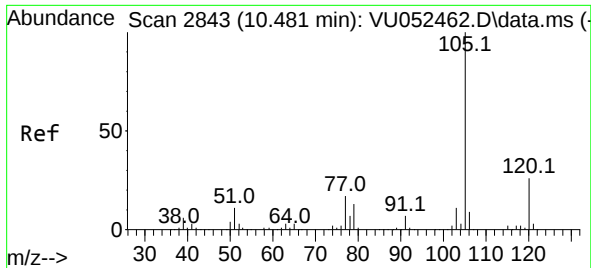
Tgt Ion: 83 Resp: 182171  
 Ion Ratio Lower Upper  
 83 100  
 85 64.7 44.7 83.1  
 131 8.5 6.0 9.0



#59  
 Bromoform  
 Concen: 9.724 ug/L  
 RT: 10.285 min Scan# 2782  
 Delta R.T. -0.000 min  
 Lab File: VU052463.D  
 Acq: 20 Dec 2022 17:08

Tgt Ion: 173 Resp: 79650  
 Ion Ratio Lower Upper  
 173 100  
 175 50.2 38.9 58.3  
 254 9.6 7.0 10.6

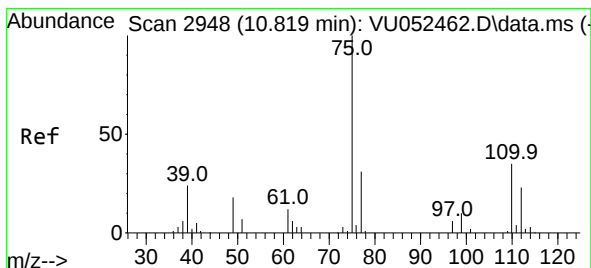
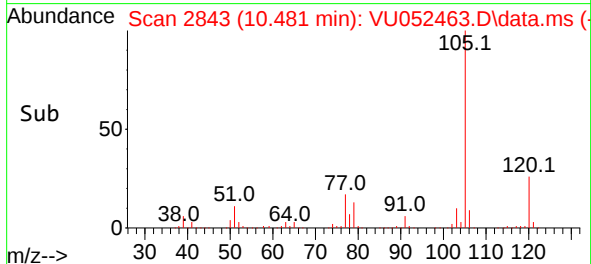
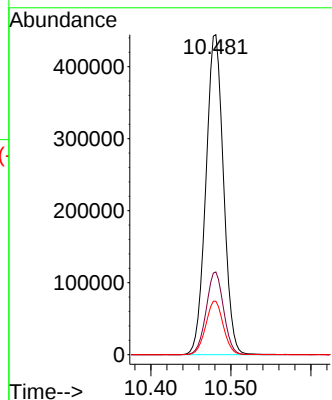
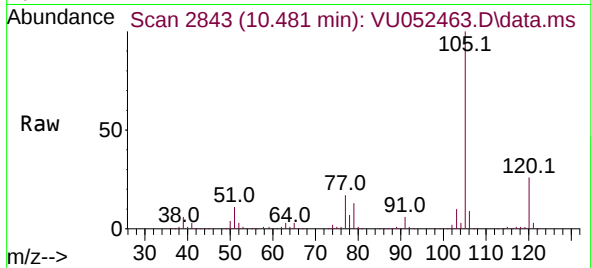




#60  
Isopropylbenzene  
Concen: 11.267 ug/L  
RT: 10.481 min Scan# 2843  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

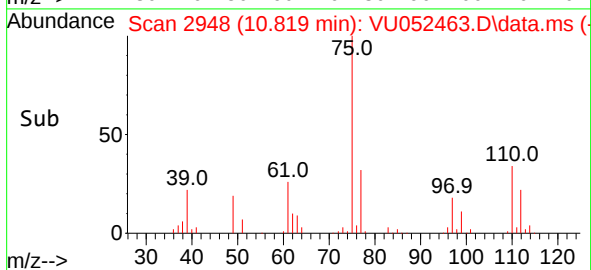
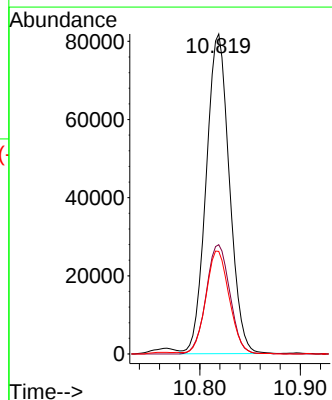
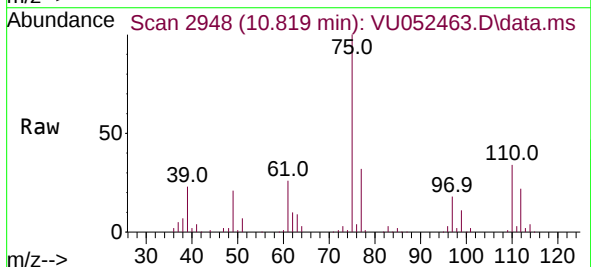
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010077

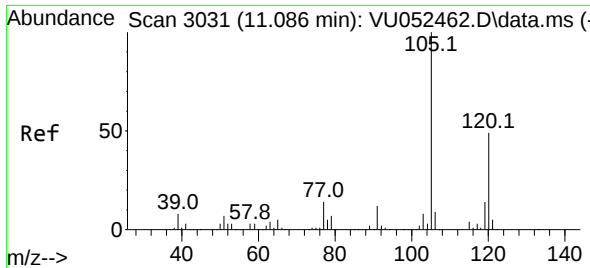
Tgt Ion:105 Resp: 680748  
Ion Ratio Lower Upper  
105 100  
120 25.7 20.6 31.0  
77 16.8 13.8 20.8



#61  
1,2,3-Trichloropropane  
Concen: 9.810 ug/L  
RT: 10.819 min Scan# 2948  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

Tgt Ion: 75 Resp: 131174  
Ion Ratio Lower Upper  
75 100  
110 35.0 27.9 41.9  
77 32.7 25.9 38.9

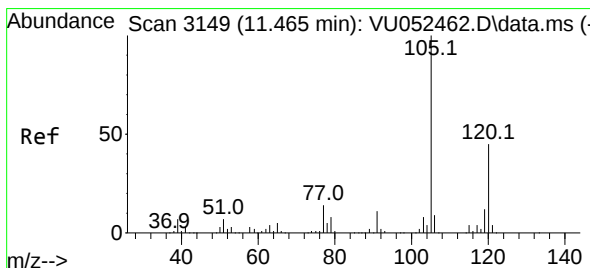
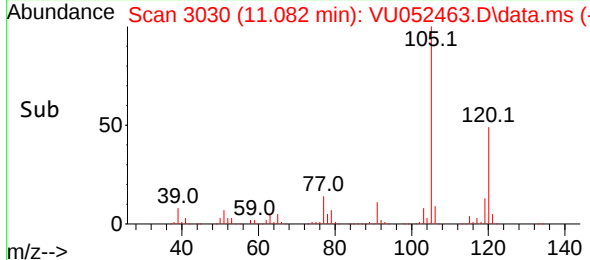
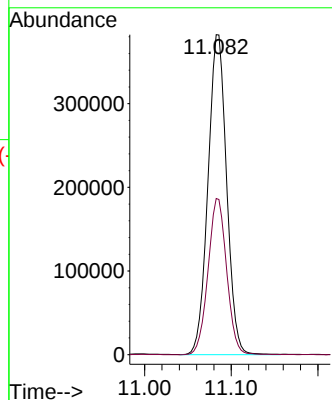
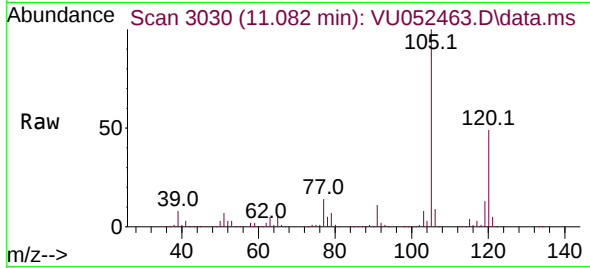




#62  
1,3,5-Trimethylbenzene  
Concen: 11.457 ug/L  
RT: 11.082 min Scan# 3031  
Delta R.T. -0.003 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

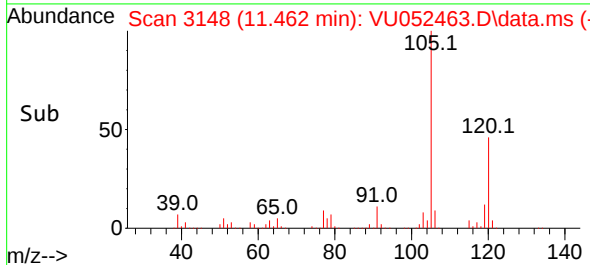
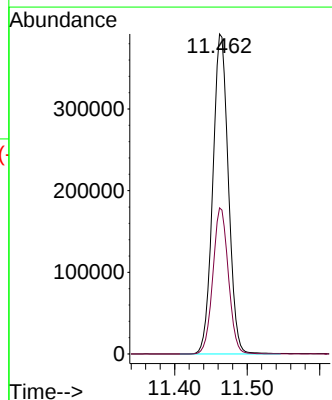
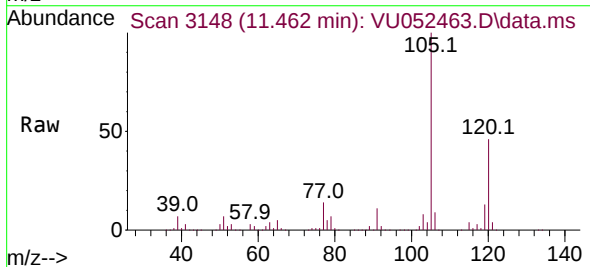
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010077

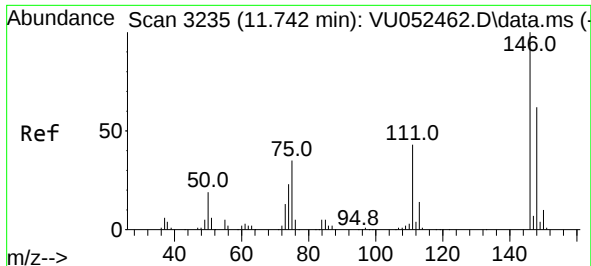
Tgt Ion:105 Resp: 570935  
Ion Ratio Lower Upper  
105 100  
120 48.8 38.6 57.8



#63  
1,2,4-Trimethylbenzene  
Concen: 11.647 ug/L  
RT: 11.462 min Scan# 3148  
Delta R.T. -0.003 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

Tgt Ion:105 Resp: 584302  
Ion Ratio Lower Upper  
105 100  
120 45.4 35.6 53.4

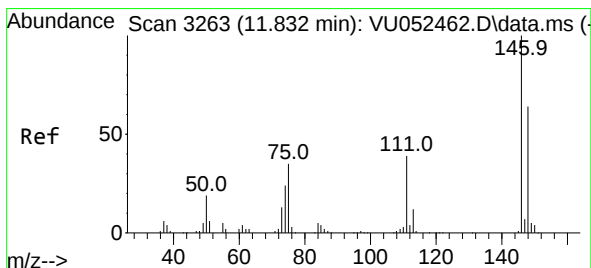
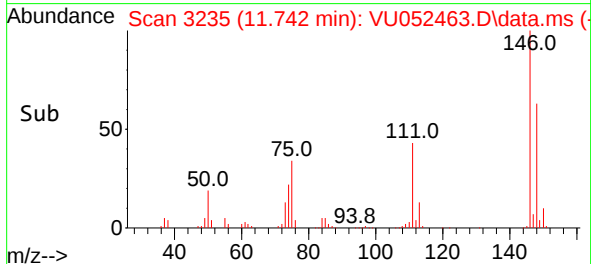
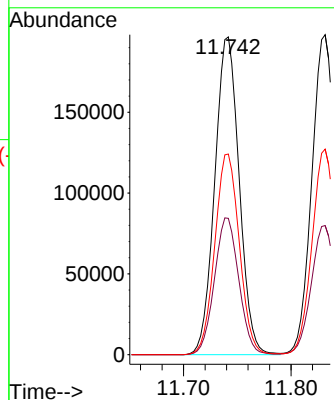
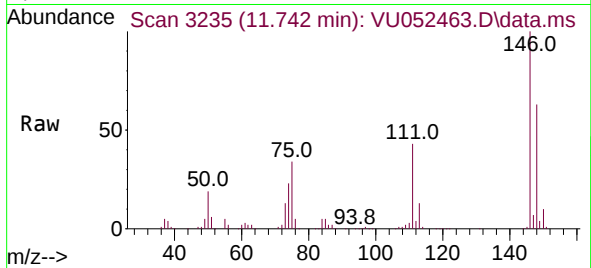




#64  
1,3-Dichlorobenzene  
Concen: 10.358 ug/L  
RT: 11.742 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

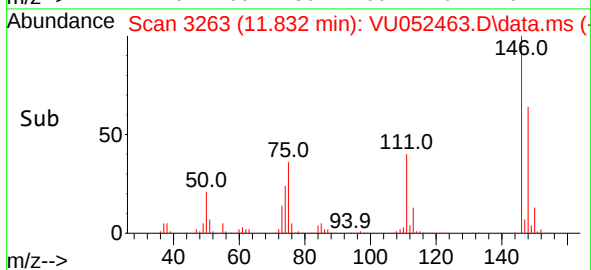
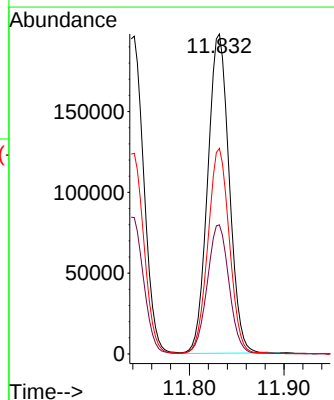
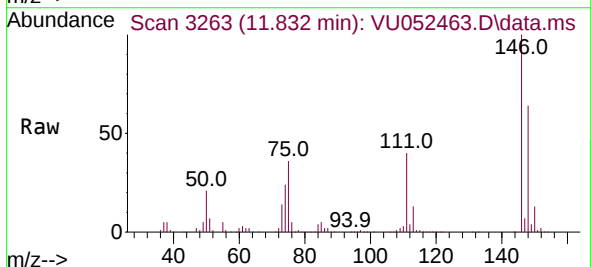
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD010077

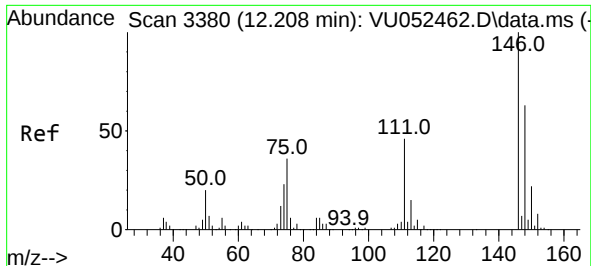
Tgt Ion:146 Resp: 310509  
Ion Ratio Lower Upper  
146 100  
111 42.9 29.9 55.5  
148 63.1 43.4 80.6



#65  
1,4-Dichlorobenzene  
Concen: 10.062 ug/L  
RT: 11.832 min Scan# 3263  
Delta R.T. -0.000 min  
Lab File: VU052463.D  
Acq: 20 Dec 2022 17:08

Tgt Ion:146 Resp: 311972  
Ion Ratio Lower Upper  
146 100  
111 40.3 27.5 51.1  
148 64.2 44.9 83.3





#67

1,2-Dichlorobenzene

Concen: 10.229 ug/L

RT: 12.208 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

Instrument :

MSVOA\_U

ClientSampleId :

VSTD010077

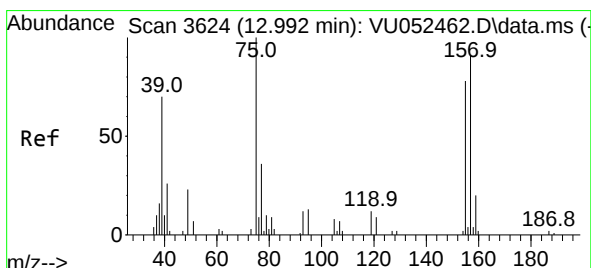
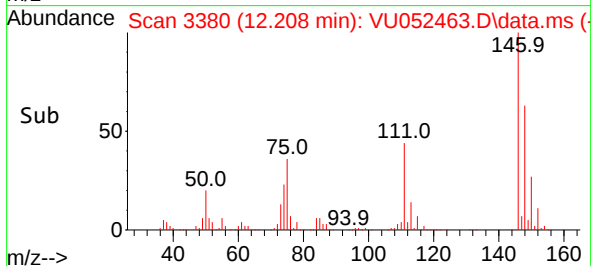
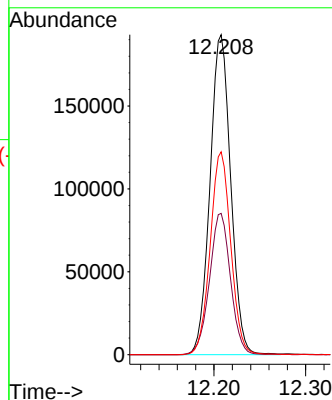
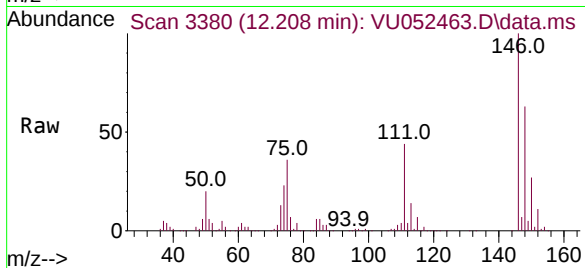
Tgt Ion:146 Resp: 303003

Ion Ratio Lower Upper

146 100

111 44.1 36.6 55.0

148 63.4 50.5 75.7



#68

1,2-Dibromo-3-chloropropane

Concen: 9.859 ug/L

RT: 12.989 min Scan# 3623

Delta R.T. -0.003 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

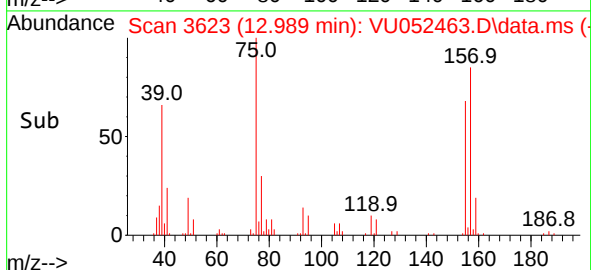
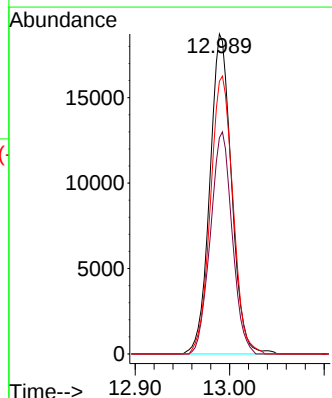
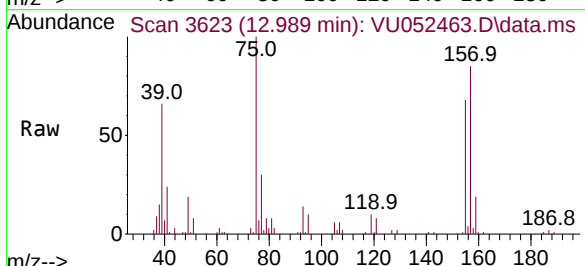
Tgt Ion: 75 Resp: 29840

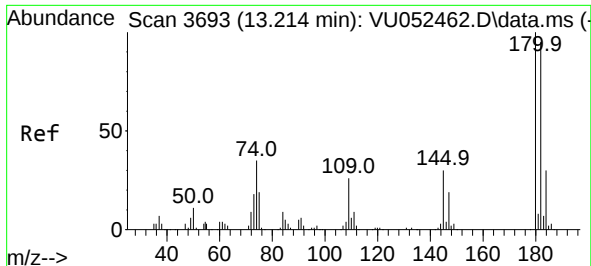
Ion Ratio Lower Upper

75 100

155 67.6 62.2 93.2

157 85.2 73.0 109.4





#69

1,3,5-Trichlorobenzene

Concen: 10.409 ug/L

RT: 13.214 min Scan# 3693

Delta R.T. -0.000 min

Lab File: VU052463.D

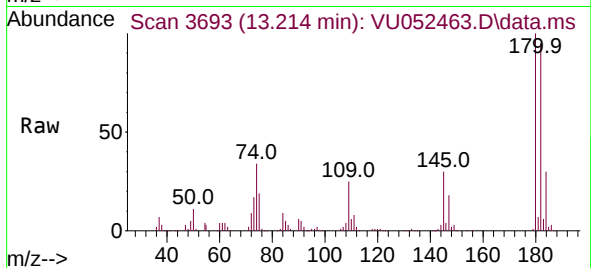
Acq: 20 Dec 2022 17:08

Instrument :

MSVOA\_U

ClientSampleId :

VSTD010077



Tgt Ion:180 Resp: 229779

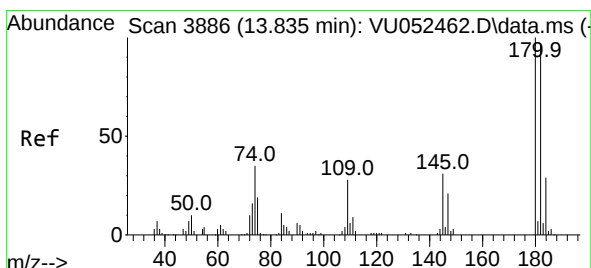
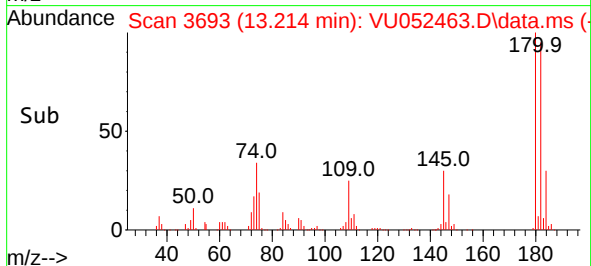
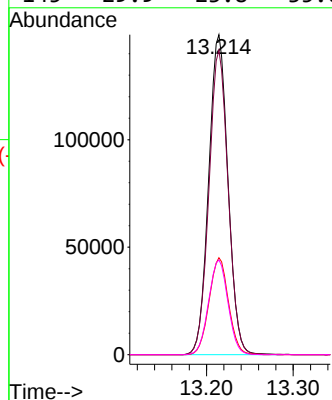
Ion Ratio Lower Upper

180 100

182 95.0 75.8 113.8

184 30.6 23.4 35.0

145 29.9 23.8 35.6



#70

1,2,4-trichlorobenzene

Concen: 10.595 ug/L

RT: 13.835 min Scan# 3886

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

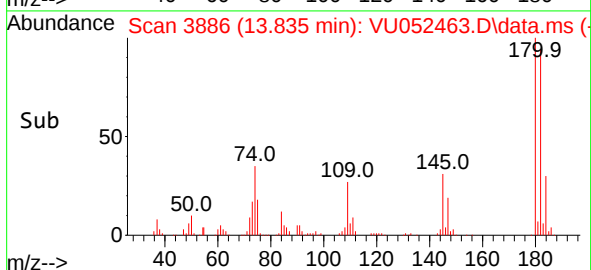
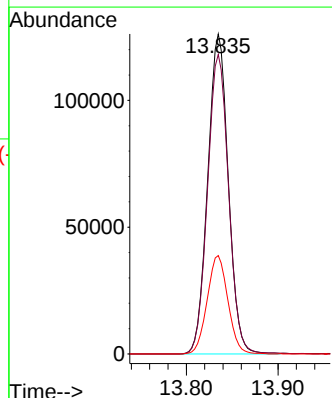
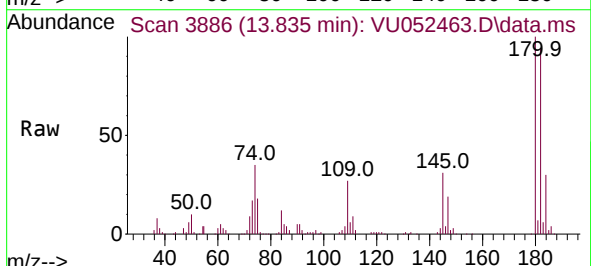
Tgt Ion:180 Resp: 196804

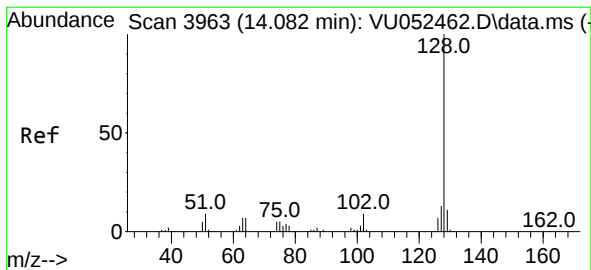
Ion Ratio Lower Upper

180 100

182 95.7 77.7 116.5

145 30.9 24.0 36.0





#71

Naphthalene

Concen: 11.178 ug/L

RT: 14.082 min Scan# 3963

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

Instrument :

MSVOA\_U

ClientSampleId :

VSTD010077

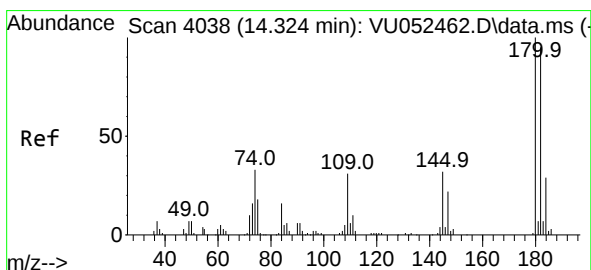
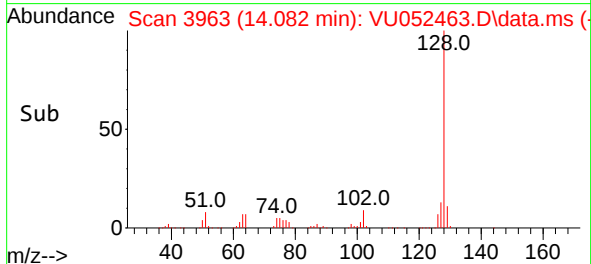
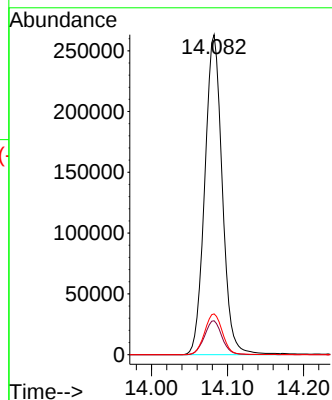
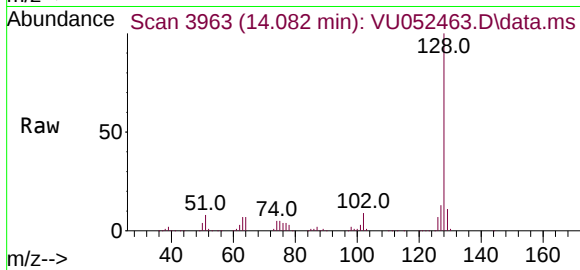
Tgt Ion:128 Resp: 420123

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

127 13.1 10.6 16.0



#72

1,2,3-Trichlorobenzene

Concen: 10.540 ug/L

RT: 14.323 min Scan# 4038

Delta R.T. -0.000 min

Lab File: VU052463.D

Acq: 20 Dec 2022 17:08

Tgt Ion:180 Resp: 196240

Ion Ratio Lower Upper

180 100

182 96.0 76.3 114.5

145 32.7 25.8 38.8

