

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111622\  
 Data File : VU051882.D  
 Acq On : 16 Nov 2022 15:13  
 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050122

Quant Time: Nov 17 01:21:58 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM111522WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Nov 17 01:20:24 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247   | 114   | 474896   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 475951   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152   | 249711   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 101189   | 43.403   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 86.800%  |
| 7) Chloroethane-d5            | 1.900   | 69    | 108253   | 46.343   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 92.680%  |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 191313   | 45.760   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 91.520%  |
| 21) 2-Butanone-d5             | 4.617   | 46    | 253494   | 95.619   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 95.620%  |
| 24) Chloroform-d              | 5.060   | 84    | 280218   | 47.947   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.900%  |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65    | 166089   | 46.425   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 92.860%  |
| 32) Benzene-d6                | 5.726   | 84    | 494914   | 49.871   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 99.740%  |
| 36) 1,2-Dichloropropane-d6    | 6.690   | 67    | 182424   | 49.385   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 98.760%  |
| 41) Toluene-d8                | 7.896   | 98    | 416917   | 51.184   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 102.360% |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 72798    | 49.478   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 98.960%  |
| 47) 2-Hexanone-d5             | 8.632   | 63    | 193871   | 103.269  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 103.270% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755  | 84    | 349726   | 48.645   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 97.300%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 210949   | 48.003   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.000%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 136164   | 46.702   | ug/L   | 99       |
| 3) Chloromethane              | 1.523   | 50    | 182970   | 47.256   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.604   | 62    | 189138   | 47.094   | ug/L   | 99       |
| 6) Bromomethane               | 1.839   | 94    | 95144    | 54.682   | ug/L   | 98       |
| 8) Chloroethane               | 1.922   | 64    | 128584   | 49.245   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.131   | 101   | 233443   | 48.550   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578   | 101   | 149952   | 49.484   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.575   | 96    | 140270   | 49.563   | ug/L   | 99       |
| 13) Acetone                   | 2.620   | 43    | 255326   | 90.019   | ug/L   | 100      |
| 14) Carbon disulfide          | 2.790   | 76    | 366842   | 46.787   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.945   | 43    | 189879   | 49.105   | ug/L   | 100      |
| 16) Methylene chloride        | 3.044   | 84    | 200756   | 44.435   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 150923   | 49.484   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 3.359   | 73    | 477252   | 50.558   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.864   | 63    | 309874   | 49.920   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.665   | 96    | 181511   | 50.995   | ug/L   | 99       |
| 22) 2-Butanone                | 4.697   | 43    | 312869   | 97.671   | ug/L   | 99       |
| 23) Bromochloromethane        | 4.970   | 128   | 96971    | 49.368   | ug/L   | 98       |
| 25) Chloroform                | 5.086   | 83    | 321132   | 49.581   | ug/L   | 98       |

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 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

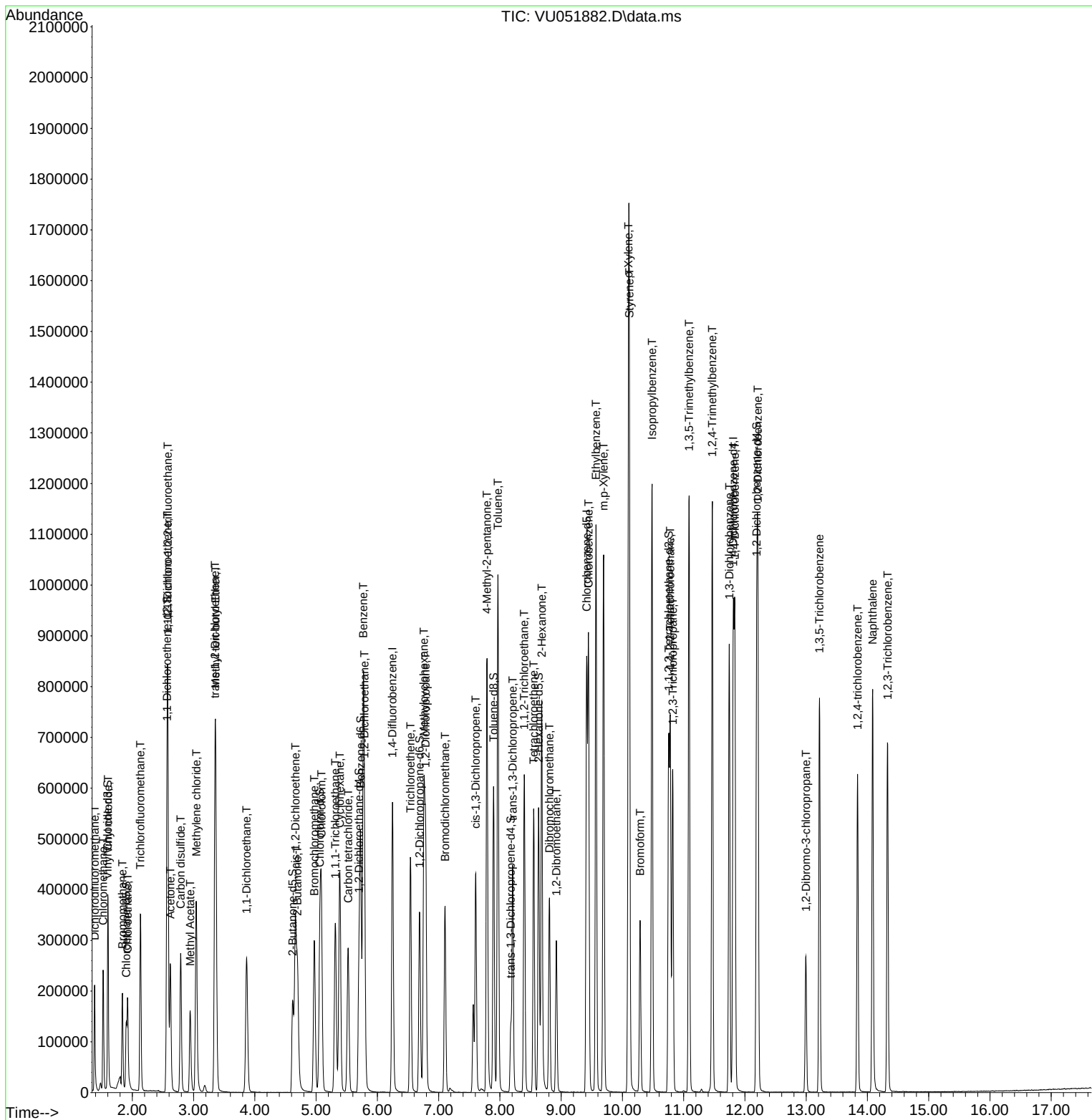
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050122

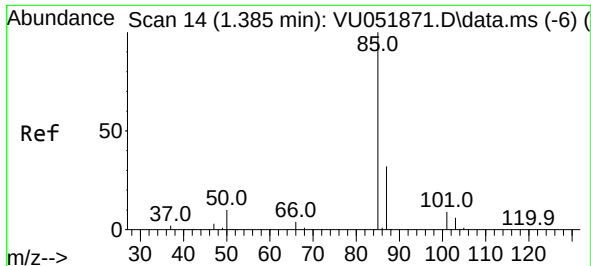
Quant Time: Nov 17 01:21:58 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM111522WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Nov 17 01:20:24 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.790  | 62   | 238426   | 49.815  | ug/L  | 99       |
| 29) Cyclohexane               | 5.388  | 56   | 214071   | 52.717  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane     | 5.314  | 97   | 241128   | 50.110  | ug/L  | 100      |
| 31) Carbon tetrachloride      | 5.523  | 117  | 196573   | 48.864  | ug/L  | 96       |
| 33) Benzene                   | 5.771  | 78   | 724140   | 52.893  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 165309   | 50.967  | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.761  | 83   | 236751   | 53.832  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 196186   | 50.606  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.105  | 83   | 245601   | 50.637  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 265021   | 52.261  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 529428   | 103.705 | ug/L  | 99       |
| 42) Toluene                   | 7.967  | 91   | 767897   | 54.532  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 254109   | 52.293  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 198659   | 50.427  | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.552  | 164  | 126333   | 48.772  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.684  | 43   | 463990   | 105.824 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.809  | 129  | 202361   | 49.818  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 201125   | 50.714  | ug/L  | 99       |
| 51) Chlorobenzene             | 9.446  | 112  | 489532   | 50.875  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.568  | 91   | 776911   | 53.910  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.694  | 106  | 312123   | 55.953  | ug/L  | 99       |
| 54) o-Xylene                  | 10.099 | 106  | 312182   | 54.985  | ug/L  | 99       |
| 55) Styrene                   | 10.115 | 104  | 550134   | 56.156  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 370648   | 49.789  | ug/L  | 100      |
| 59) Bromoform                 | 10.288 | 173  | 155822   | 46.024  | ug/L  | 100      |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 281297   | 47.092  | ug/L  | 98       |
| 61) Isopropylbenzene          | 10.484 | 105  | 773342   | 52.988  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 639417   | 53.767  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 643733   | 55.404  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 373801   | 50.534  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 367510   | 49.062  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 393970   | 50.088  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.996 | 75   | 71694    | 46.879  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 248787   | 50.696  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 193848   | 49.835  | ug/L  | 99       |
| 71) Naphthalene               | 14.086 | 128  | 654932   | 51.195  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 214953   | 50.489  | ug/L  | 99       |

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

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Response via : Initial Calibration

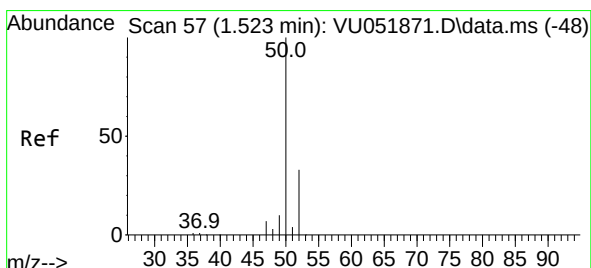
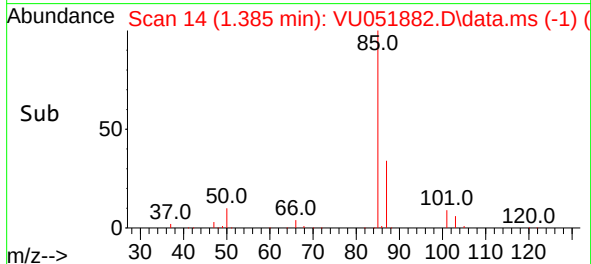
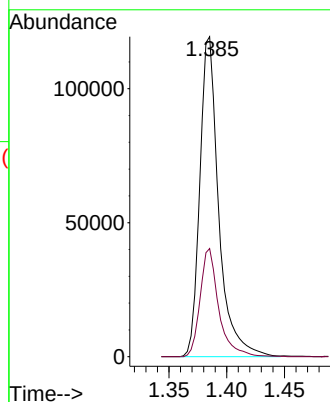
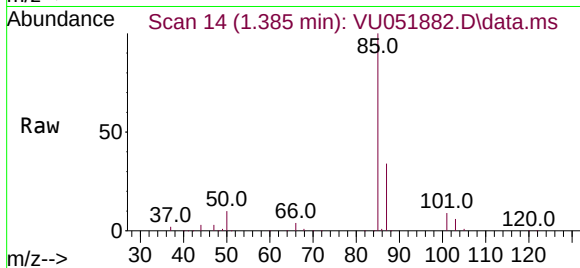




#2  
Dichlorodifluoromethane  
Concen: 46.702 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

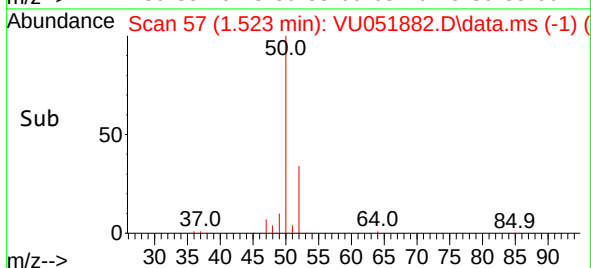
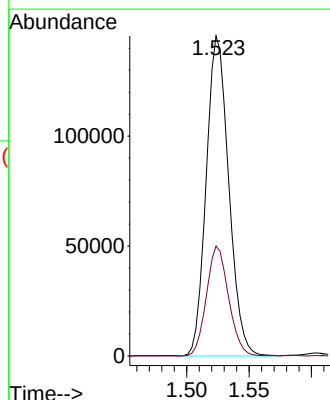
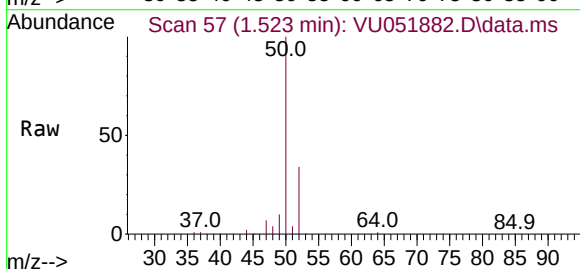
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

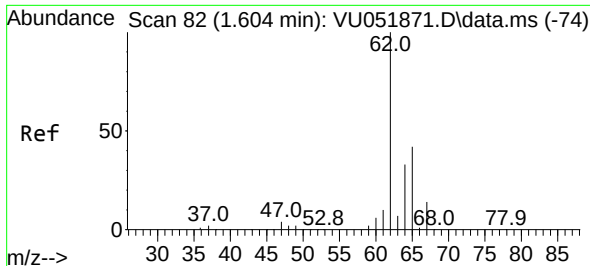
Tgt Ion: 85 Resp: 136164  
Ion Ratio Lower Upper  
85 100  
87 33.3 26.0 39.0



#3  
Chloromethane  
Concen: 47.256 ug/L  
RT: 1.523 min Scan# 57  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion: 50 Resp: 182970  
Ion Ratio Lower Upper  
50 100  
52 34.4 23.4 43.6

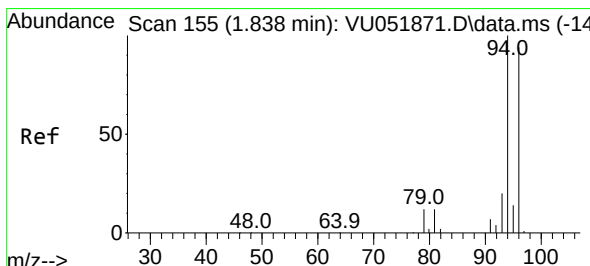
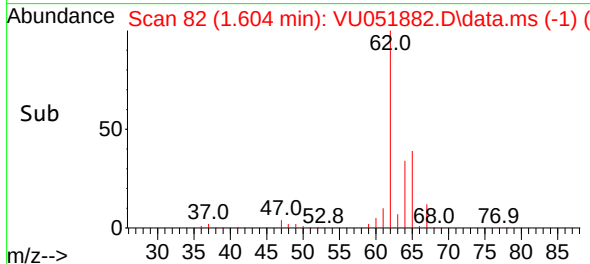
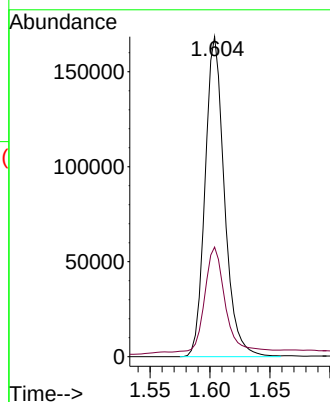
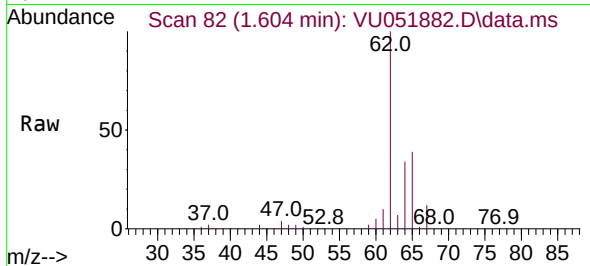




#5  
 Vinyl chloride  
 Concen: 47.094 ug/L  
 RT: 1.604 min Scan# 82  
 Delta R.T. 0.000 min  
 Lab File: VU051882.D  
 Acq: 16 Nov 2022 15:13

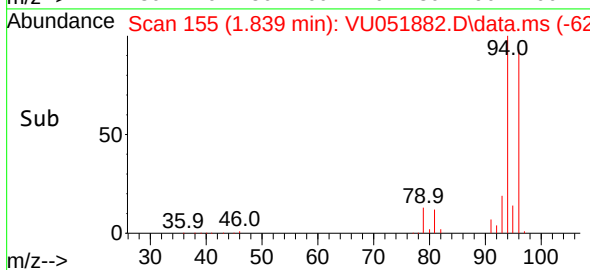
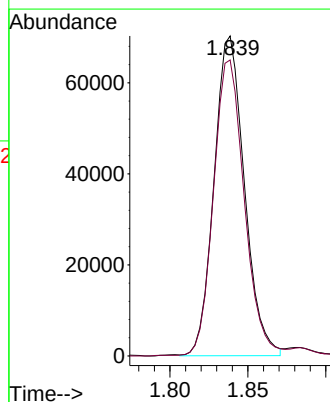
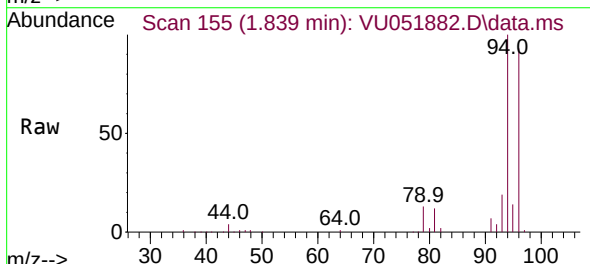
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050122

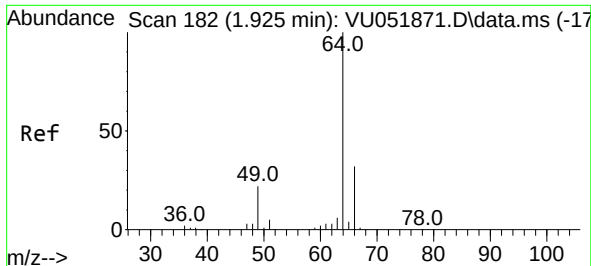
Tgt Ion: 62 Resp: 189138  
 Ion Ratio Lower Upper  
 62 100  
 64 34.2 24.3 45.1



#6  
 Bromomethane  
 Concen: 54.682 ug/L  
 RT: 1.839 min Scan# 155  
 Delta R.T. 0.000 min  
 Lab File: VU051882.D  
 Acq: 16 Nov 2022 15:13

Tgt Ion: 94 Resp: 95144  
 Ion Ratio Lower Upper  
 94 100  
 96 92.5 66.1 122.7

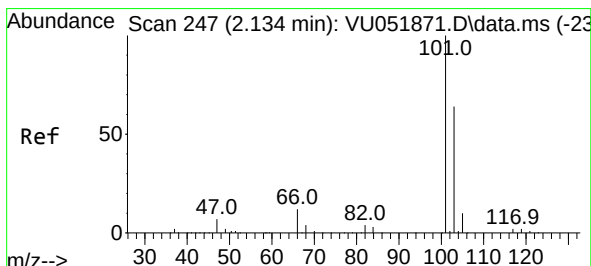
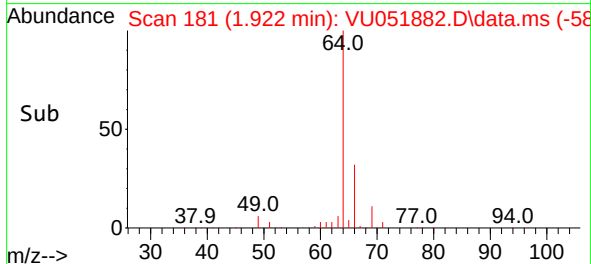
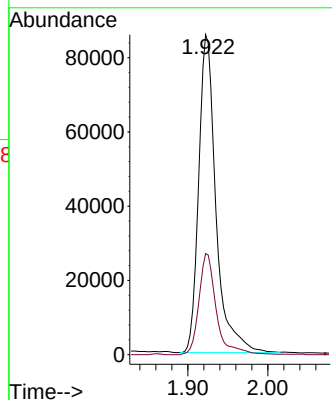
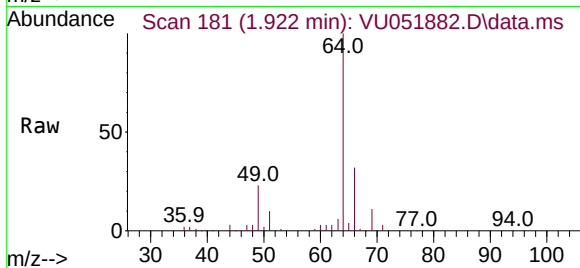




#8  
Chloroethane  
Concen: 49.245 ug/L  
RT: 1.922 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

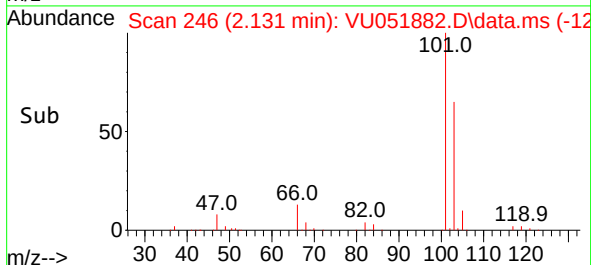
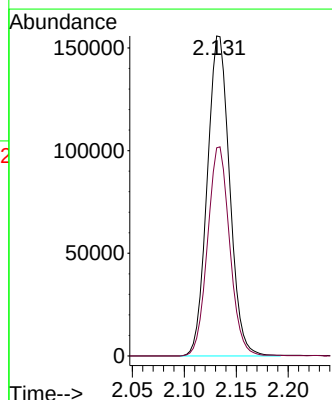
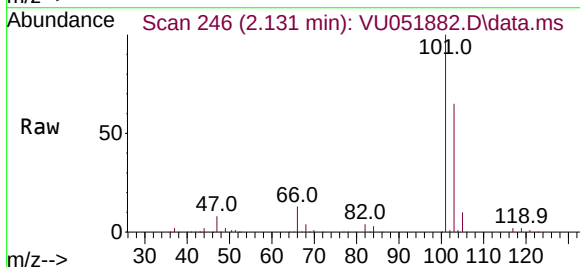
Instrument :  
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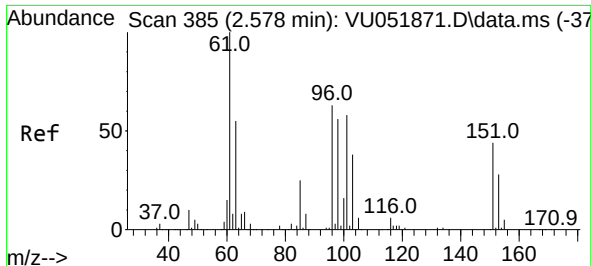
Tgt Ion: 64 Resp: 128584  
Ion Ratio Lower Upper  
64 100  
66 31.6 22.4 41.6



#9  
Trichlorofluoromethane  
Concen: 48.550 ug/L  
RT: 2.131 min Scan# 246  
Delta R.T. -0.003 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion:101 Resp: 233443  
Ion Ratio Lower Upper  
101 100  
103 64.5 51.4 77.2

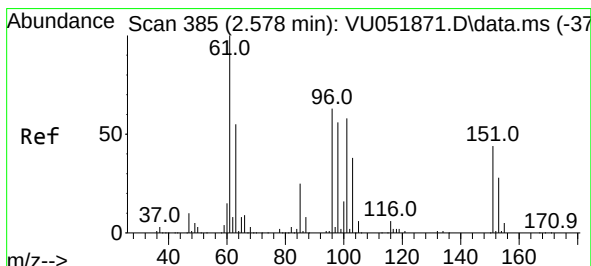
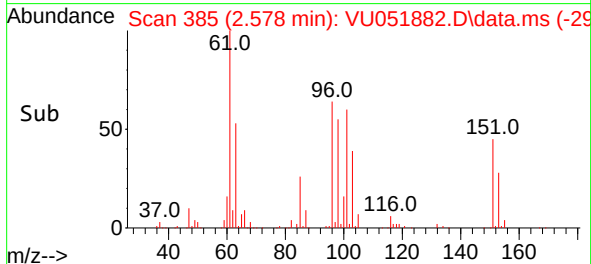
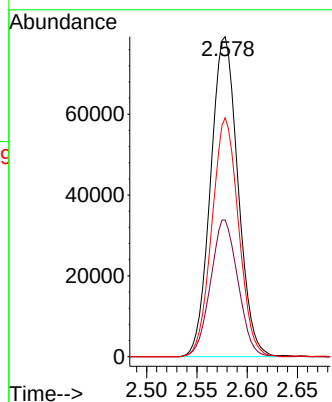
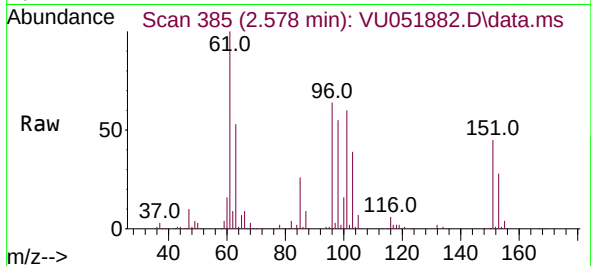




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 49.484 ug/L  
 RT: 2.578 min Scan# 385  
 Delta R.T. 0.000 min  
 Lab File: VU051882.D  
 Acq: 16 Nov 2022 15:13

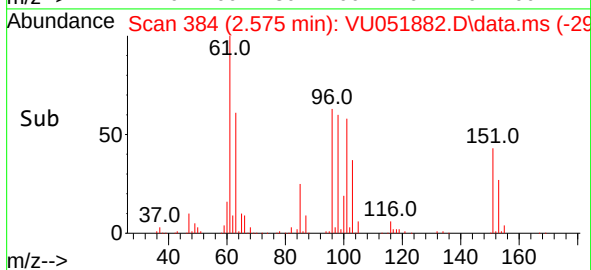
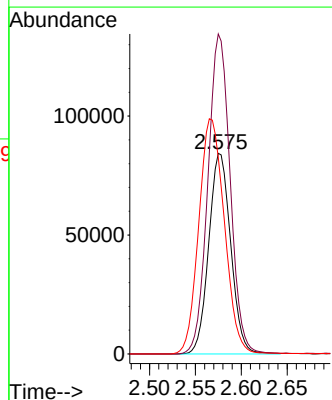
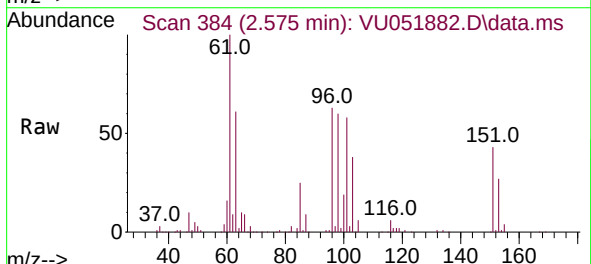
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050122

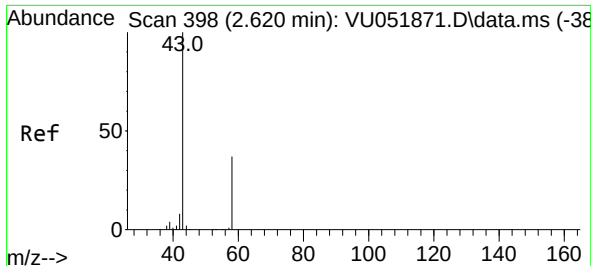
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 Ion Ratio Lower Upper  
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 151 72.8 58.3 87.5



#12  
 1,1-Dichloroethene  
 Concen: 49.563 ug/L  
 RT: 2.575 min Scan# 384  
 Delta R.T. -0.003 min  
 Lab File: VU051882.D  
 Acq: 16 Nov 2022 15:13

Tgt Ion: 96 Resp: 140270  
 Ion Ratio Lower Upper  
 96 100  
 61 159.5 110.7 205.5  
 63 97.9 68.6 127.4





#13

Acetone

Concen: 90.019 ug/L

RT: 2.620 min Scan# 398

Delta R.T. 0.000 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

Instrument :

MSVOA\_U

ClientSampleId :

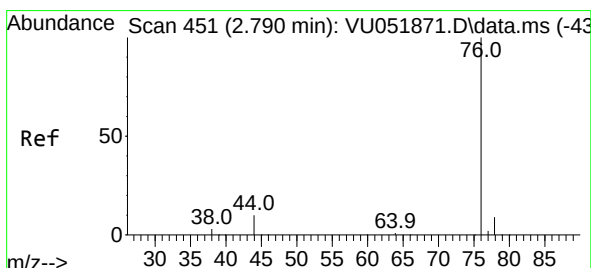
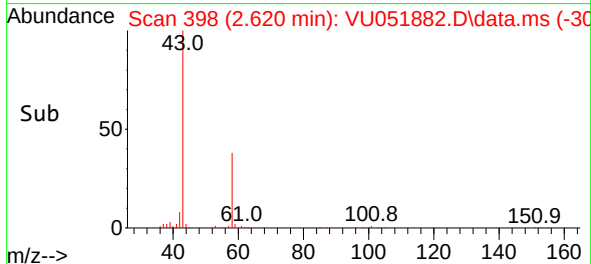
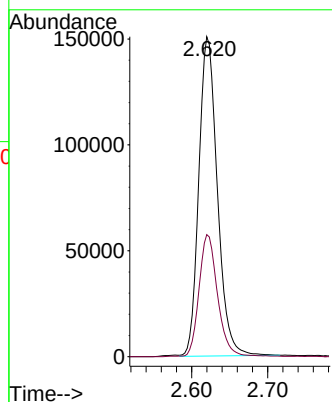
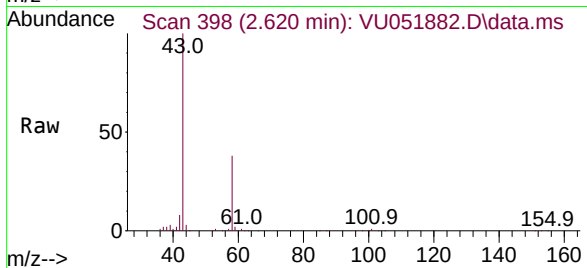
VSTD050122

Tgt Ion: 43 Resp: 255326

Ion Ratio Lower Upper

43 100

58 37.7 0.0 75.4



#14

Carbon disulfide

Concen: 46.787 ug/L

RT: 2.790 min Scan# 451

Delta R.T. 0.000 min

Lab File: VU051882.D

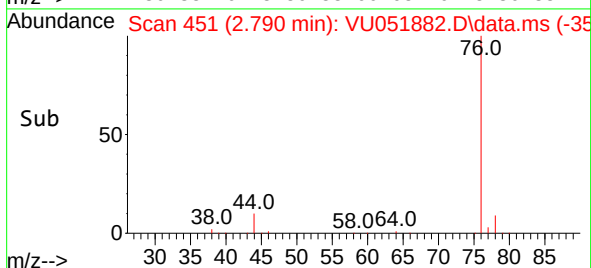
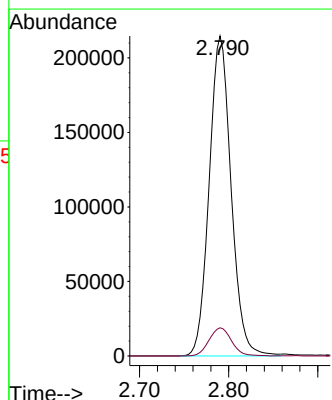
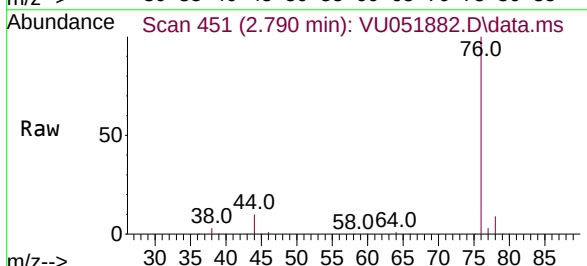
Acq: 16 Nov 2022 15:13

Tgt Ion: 76 Resp: 366842

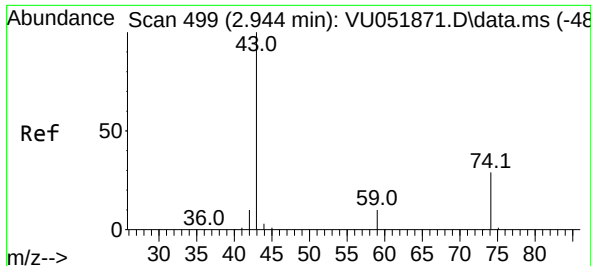
Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0



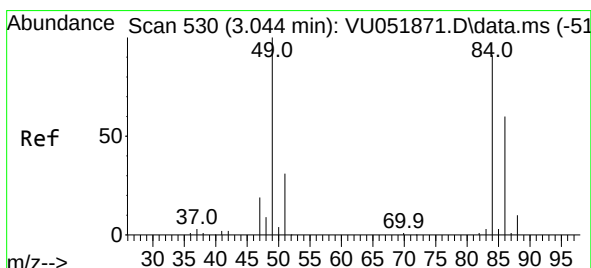
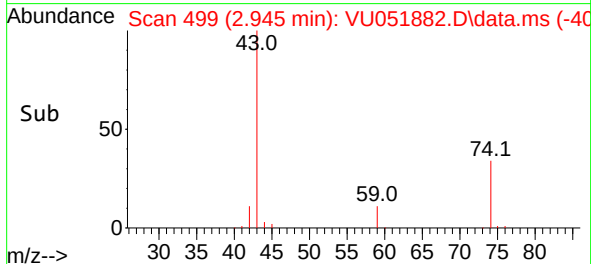
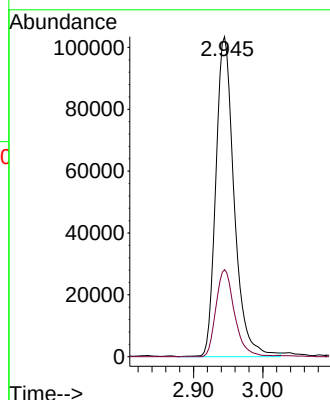
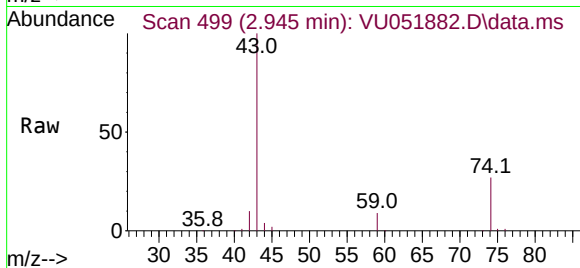




#15  
Methyl Acetate  
Concen: 49.105 ug/L  
RT: 2.945 min Scan# 499  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

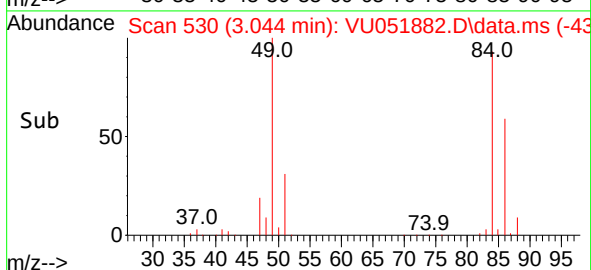
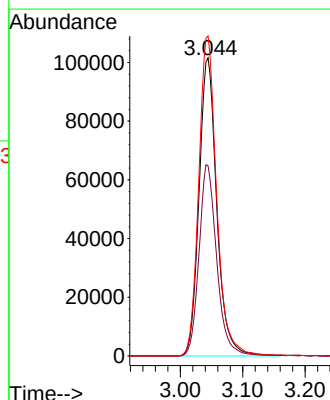
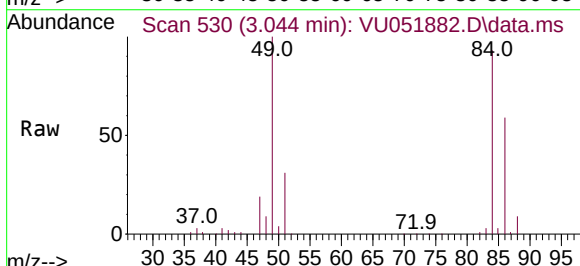
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

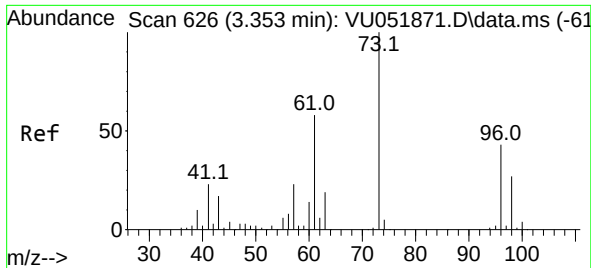
Tgt Ion: 43 Resp: 189879  
Ion Ratio Lower Upper  
43 100  
74 27.4 21.8 32.8



#16  
Methylene chloride  
Concen: 44.435 ug/L  
RT: 3.044 min Scan# 530  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion: 84 Resp: 200756  
Ion Ratio Lower Upper  
84 100  
86 63.8 44.7 82.9  
49 107.3 76.5 142.1

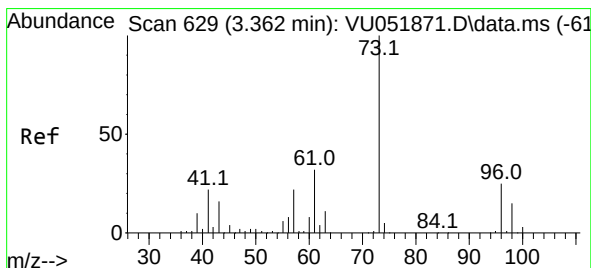
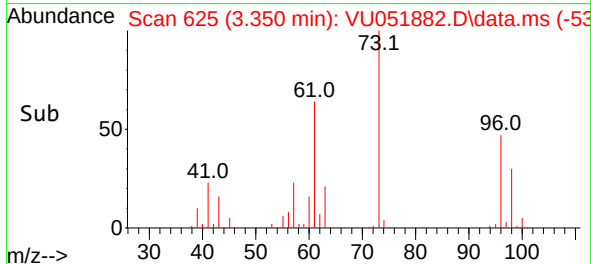
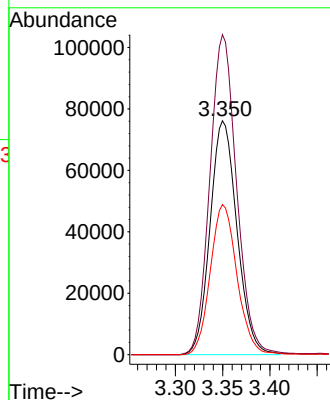
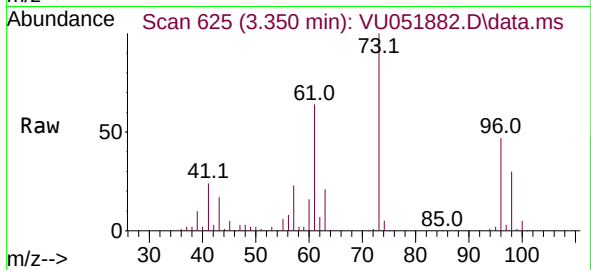




#17  
trans-1,2-Dichloroethene  
Concen: 49.484 ug/L  
RT: 3.350 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

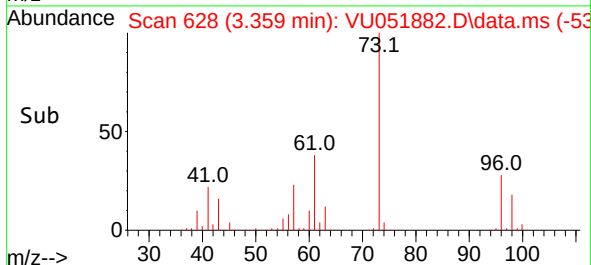
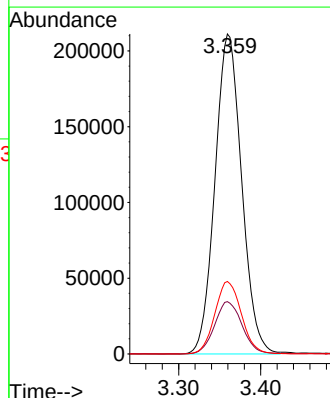
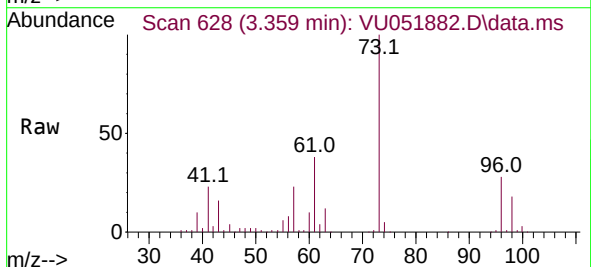
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

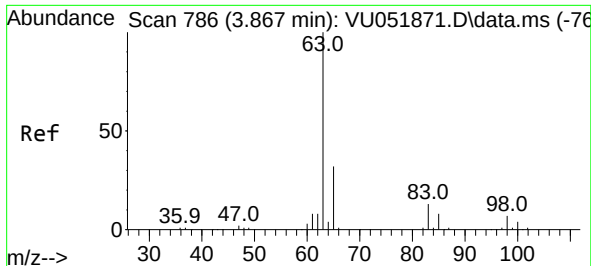
Tgt Ion: 96 Resp: 150923  
Ion Ratio Lower Upper  
96 100  
61 136.8 98.3 182.7  
98 64.1 45.5 84.5



#18  
Methyl tert-butyl Ether  
Concen: 50.558 ug/L  
RT: 3.359 min Scan# 628  
Delta R.T. -0.003 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion: 73 Resp: 477252  
Ion Ratio Lower Upper  
73 100  
43 17.0 13.4 20.0  
57 22.6 17.7 26.5





#19

1,1-Dichloroethane

Concen: 49.920 ug/L

RT: 3.864 min Scan# 786

Delta R.T. -0.003 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050122

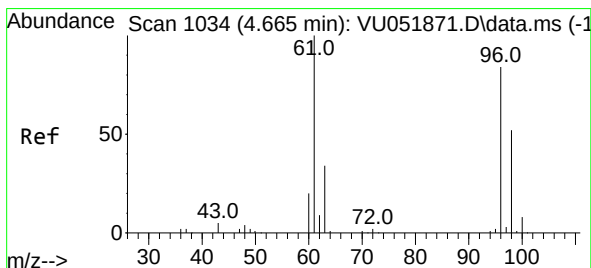
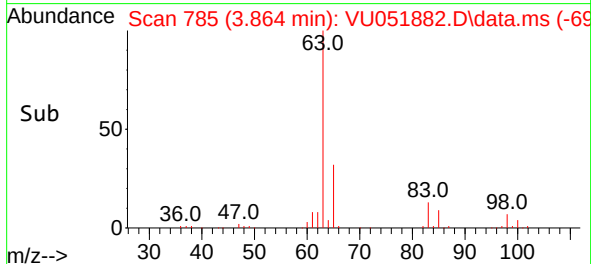
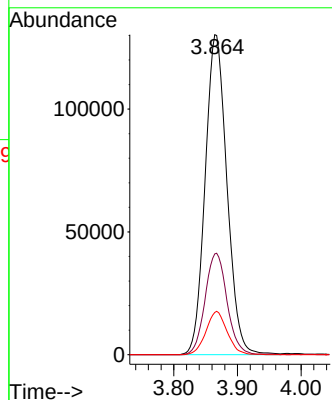
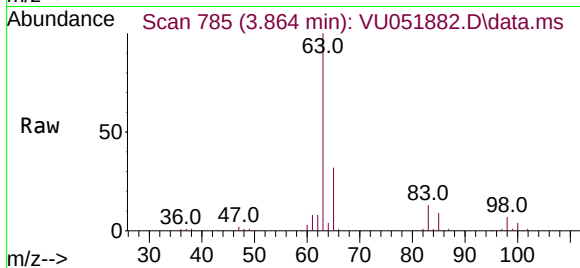
Tgt Ion: 63 Resp: 309874

Ion Ratio Lower Upper

63 100

65 31.5 22.2 41.2

83 13.2 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 50.995 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

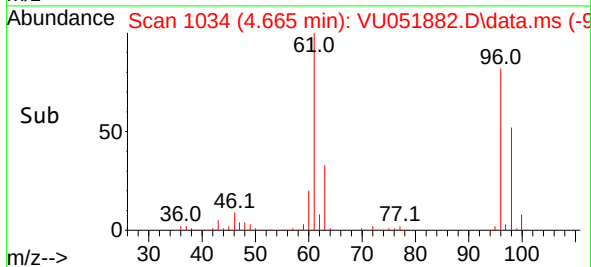
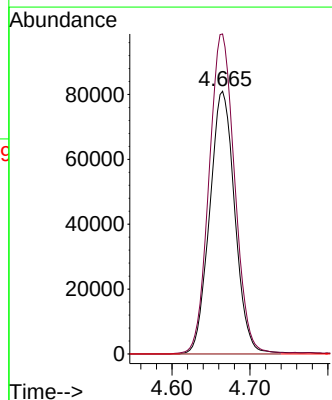
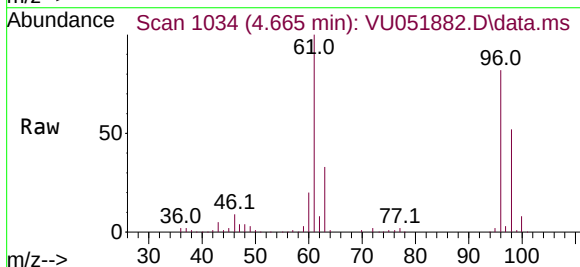
Tgt Ion: 96 Resp: 181511

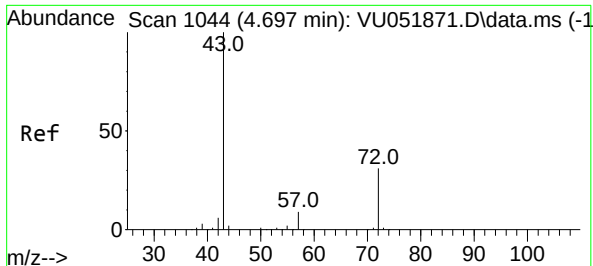
Ion Ratio Lower Upper

96 100

61 121.8 86.0 159.8

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 97.671 ug/L

RT: 4.697 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

Instrument :

MSVOA\_U

ClientSampleId :

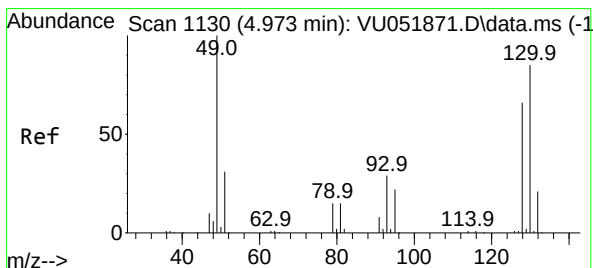
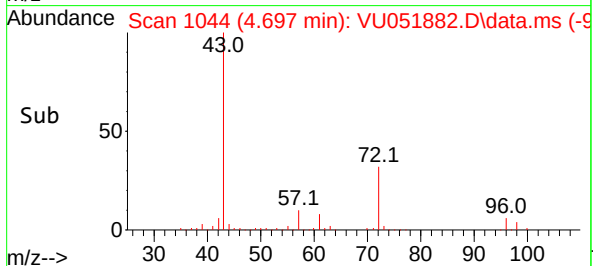
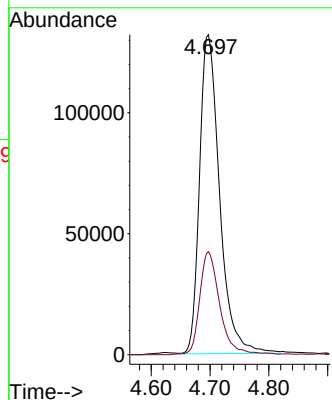
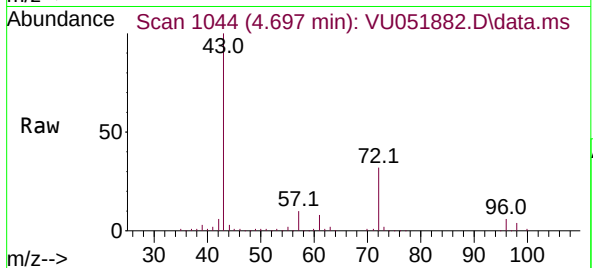
VSTD050122

Tgt Ion: 43 Resp: 312869

Ion Ratio Lower Upper

43 100

72 31.7 15.7 47.1



#23

Bromochloromethane

Concen: 49.368 ug/L

RT: 4.970 min Scan# 1129

Delta R.T. -0.003 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

Tgt Ion:128 Resp: 96971

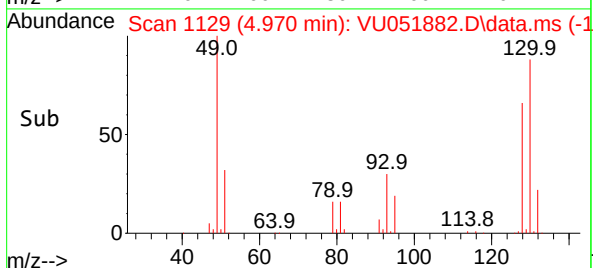
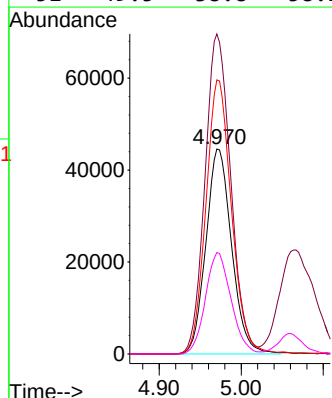
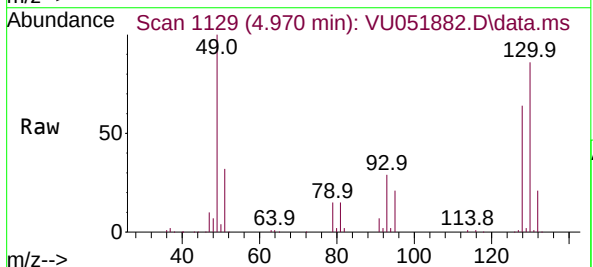
Ion Ratio Lower Upper

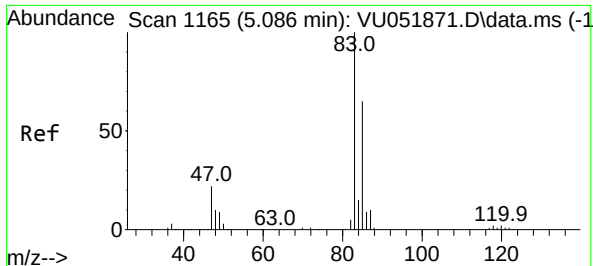
128 100

49 156.2 107.2 199.0

130 133.7 92.5 171.7

51 49.5 38.8 58.2





#25

Chloroform

Concen: 49.581 ug/L

RT: 5.086 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

Instrument :

MSVOA\_U

ClientSampleId :

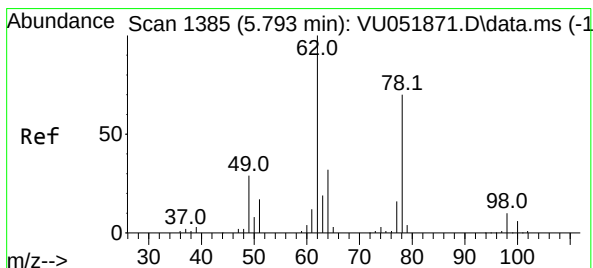
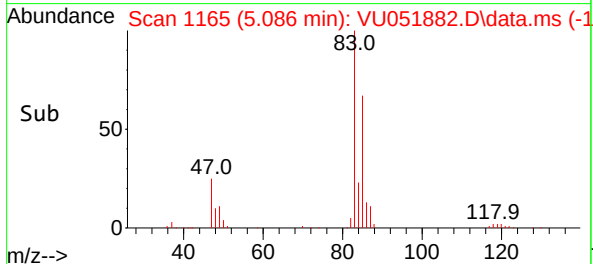
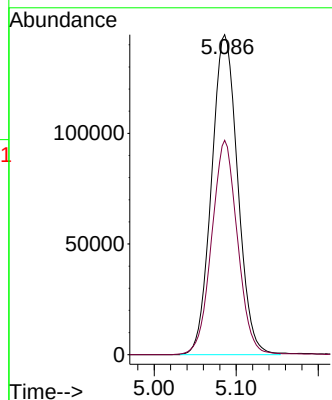
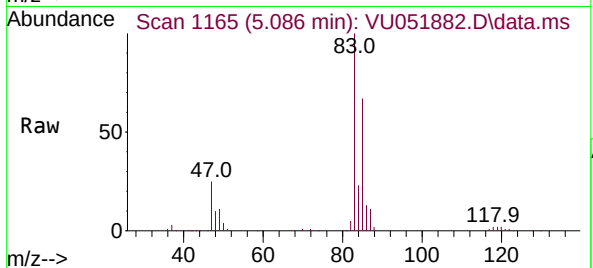
VSTD050122

Tgt Ion: 83 Resp: 321132

Ion Ratio Lower Upper

83 100

85 67.0 45.6 84.8



#27

1,2-Dichloroethane

Concen: 49.815 ug/L

RT: 5.790 min Scan# 1384

Delta R.T. -0.003 min

Lab File: VU051882.D

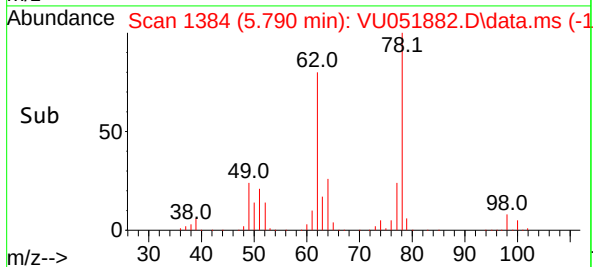
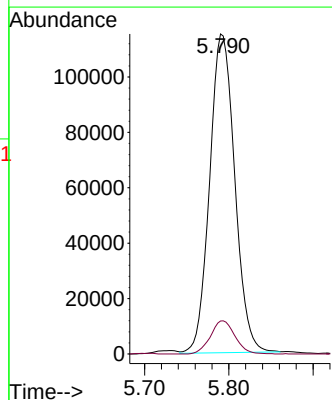
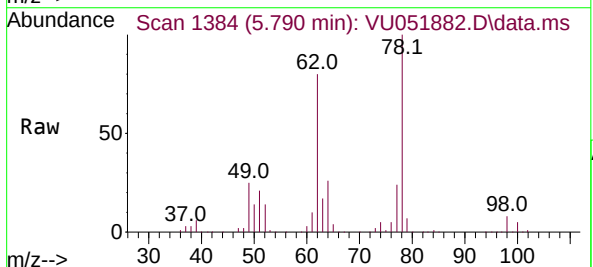
Acq: 16 Nov 2022 15:13

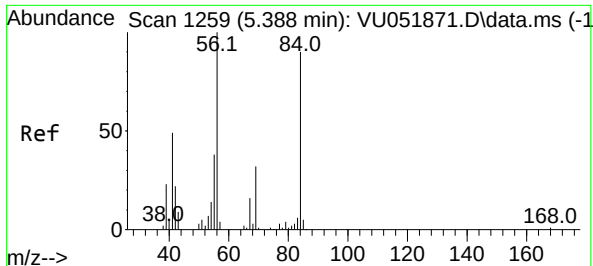
Tgt Ion: 62 Resp: 238426

Ion Ratio Lower Upper

62 100

98 10.3 8.1 12.1





#29

Cyclohexane

Concen: 52.717 ug/L

RT: 5.388 min Scan# 1259

Delta R.T. 0.000 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050122

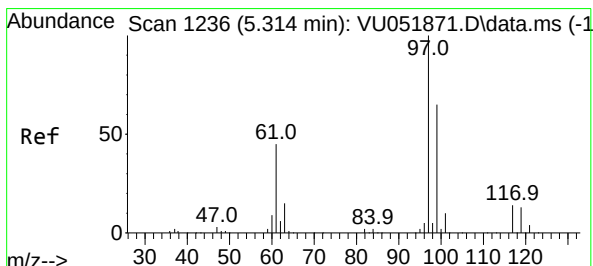
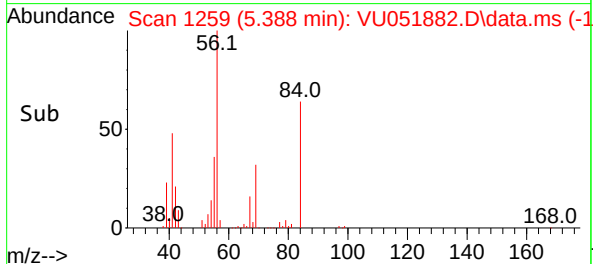
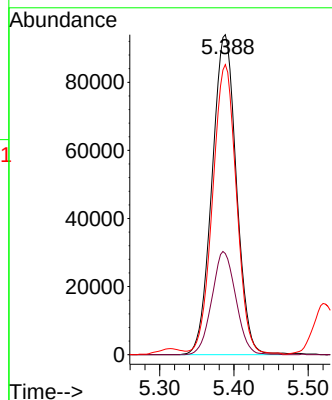
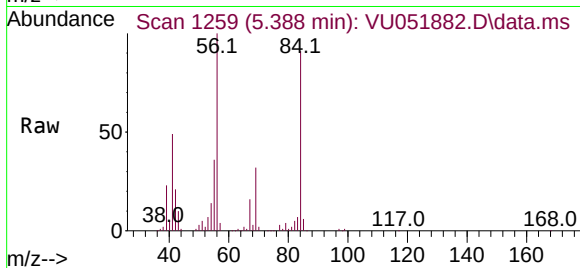
Tgt Ion: 56 Resp: 214071

Ion Ratio Lower Upper

56 100

69 31.7 25.4 38.2

84 89.0 71.4 107.0



#30

1,1,1-Trichloroethane

Concen: 50.110 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. 0.000 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

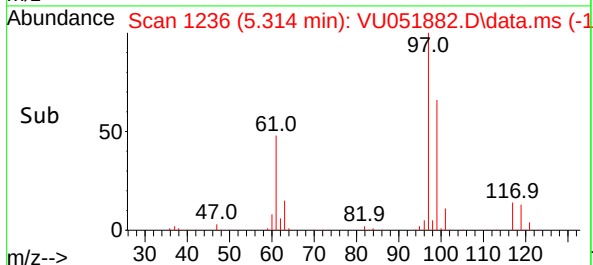
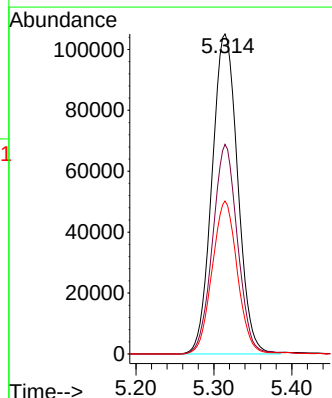
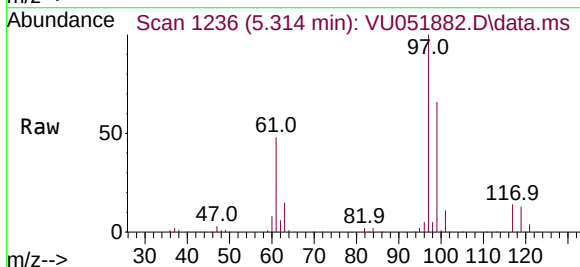
Tgt Ion: 97 Resp: 241128

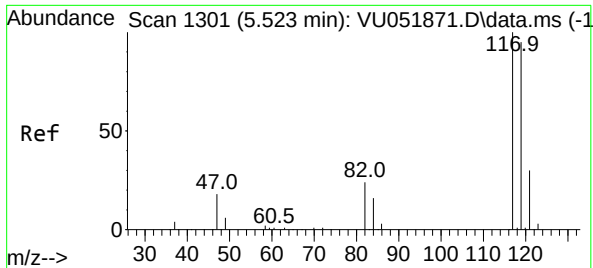
Ion Ratio Lower Upper

97 100

99 63.8 51.2 76.8

61 46.8 37.4 56.2

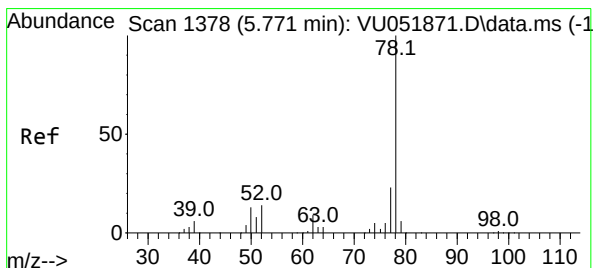
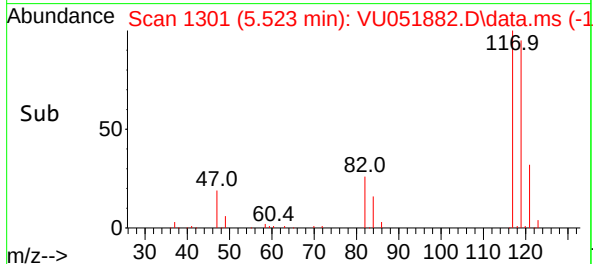
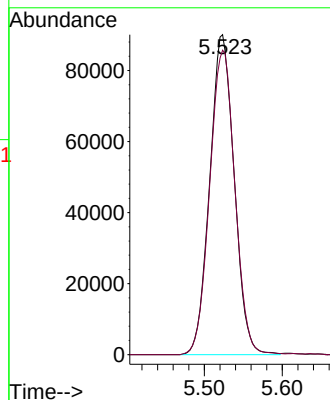
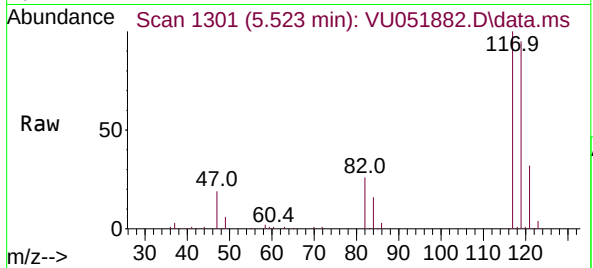




#31  
Carbon tetrachloride  
Concen: 48.864 ug/L  
RT: 5.523 min Scan# 1301  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

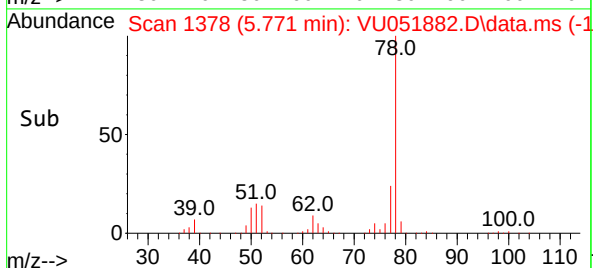
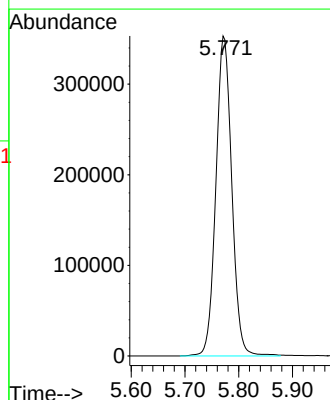
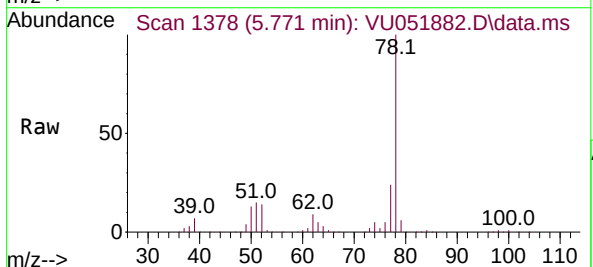
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

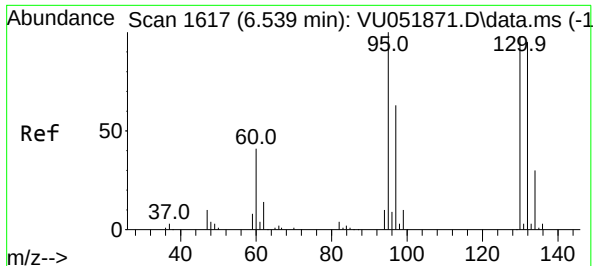
Tgt Ion:117 Resp: 196573  
Ion Ratio Lower Upper  
117 100  
119 98.0 75.6 113.4



#33  
Benzene  
Concen: 52.893 ug/L  
RT: 5.771 min Scan# 1378  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion: 78 Resp: 724140

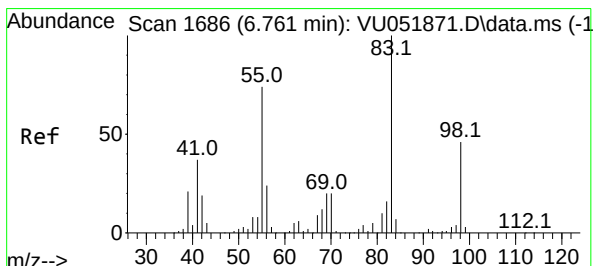
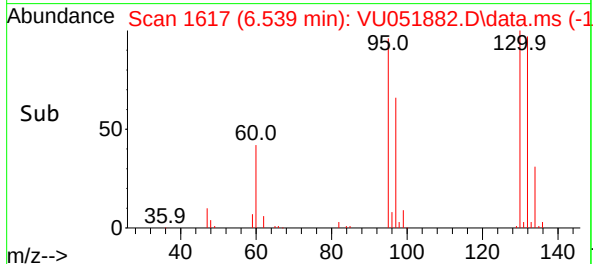
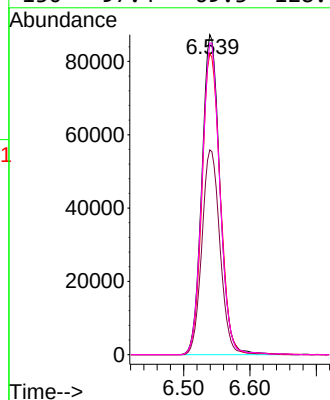
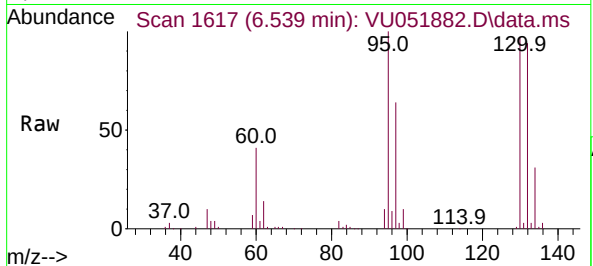




#34  
Trichloroethene  
Concen: 50.967 ug/L  
RT: 6.539 min Scan# 1617  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

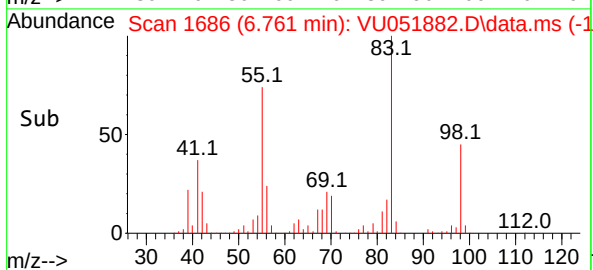
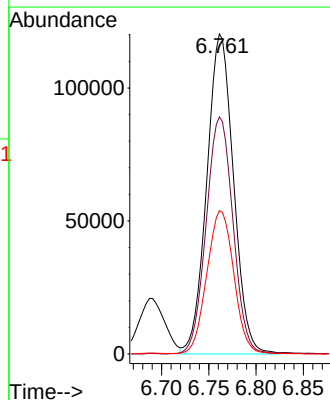
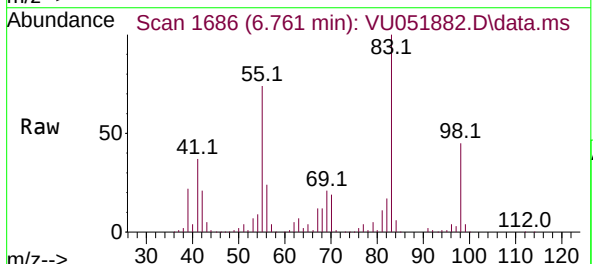
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

Tgt Ion: 95 Resp: 165309  
Ion Ratio Lower Upper  
95 100  
97 64.0 45.8 85.0  
132 94.1 65.3 121.3  
130 97.4 69.3 128.7

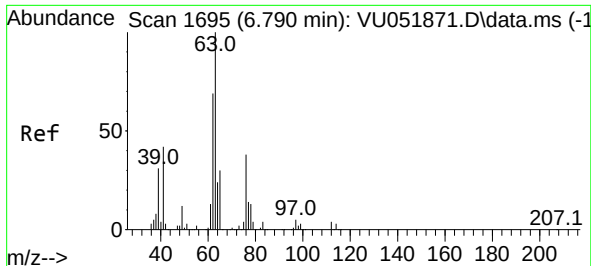


#35  
Methylcyclohexane  
Concen: 53.832 ug/L  
RT: 6.761 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion: 83 Resp: 236751  
Ion Ratio Lower Upper  
83 100  
55 74.4 60.0 90.0  
98 45.2 35.8 53.8







#37

1,2-Dichloropropane

Concen: 50.606 ug/L

RT: 6.787 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

Instrument :

MSVOA\_U

ClientSampleId :

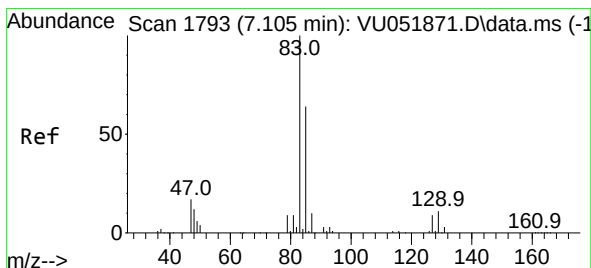
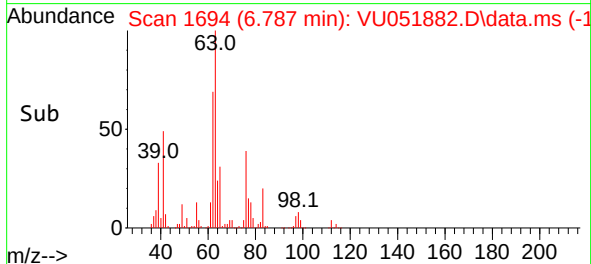
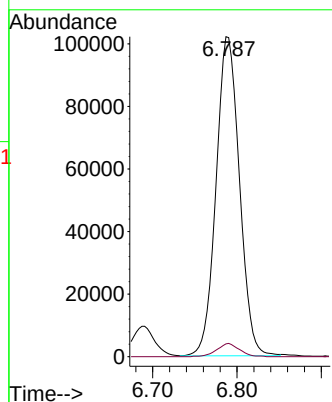
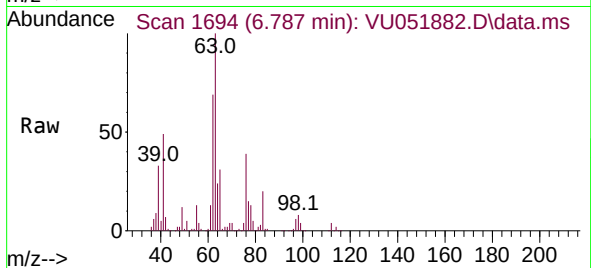
VSTD050122

Tgt Ion: 63 Resp: 196186

Ion Ratio Lower Upper

63 100

112 3.6 3.0 4.6



#38

Bromodichloromethane

Concen: 50.637 ug/L

RT: 7.105 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

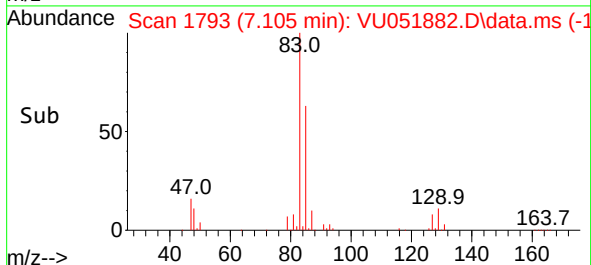
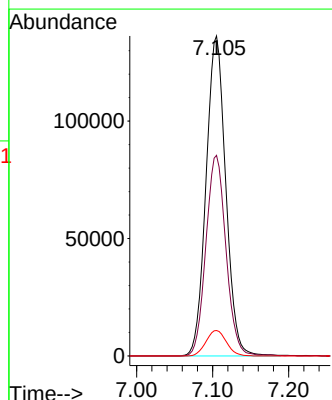
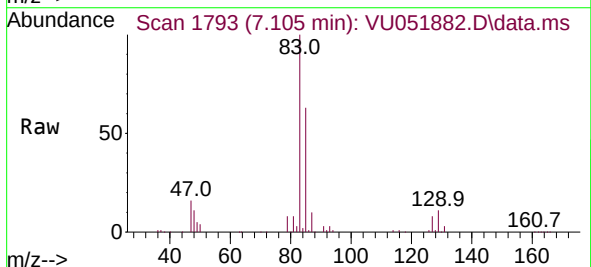
Tgt Ion: 83 Resp: 245601

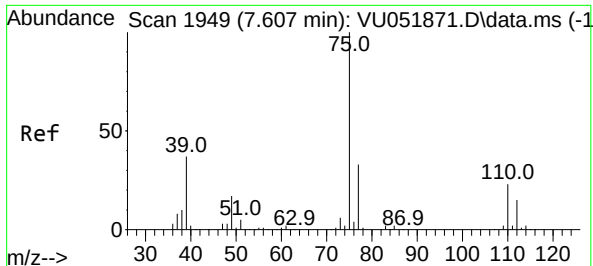
Ion Ratio Lower Upper

83 100

85 62.7 44.6 82.8

127 8.0 6.5 9.7





#39

cis-1,3-Dichloropropene

Concen: 52.261 ug/L

RT: 7.607 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

Instrument :

MSVOA\_U

ClientSampleId :

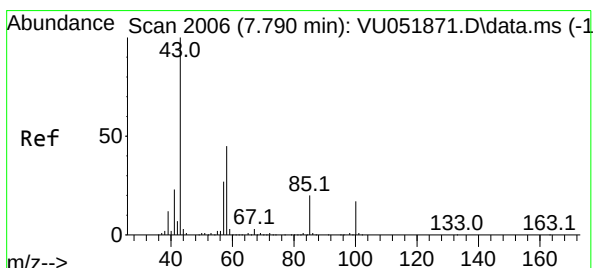
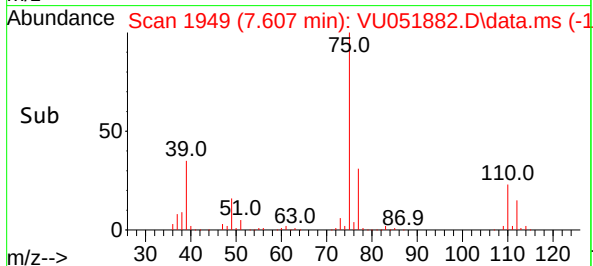
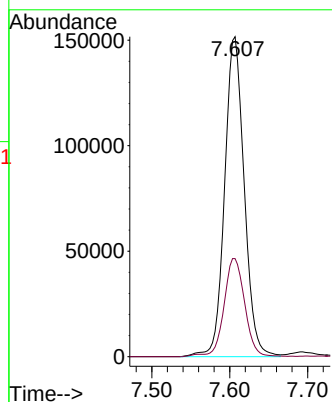
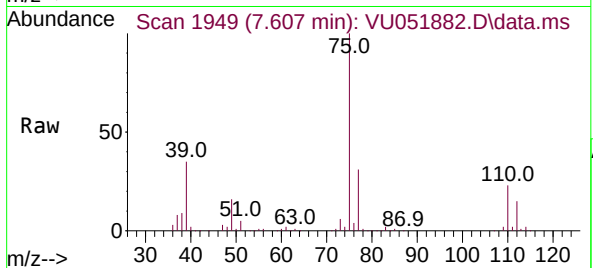
VSTD050122

Tgt Ion: 75 Resp: 265021

Ion Ratio Lower Upper

75 100

77 30.7 22.5 41.7



#40

4-Methyl-2-pentanone

Concen: 103.705 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

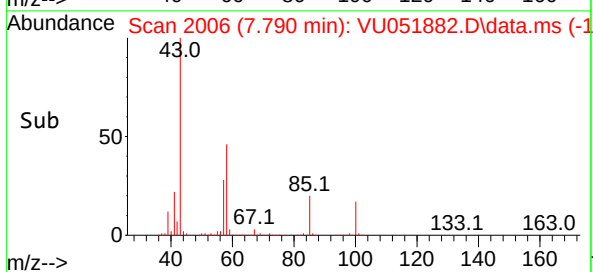
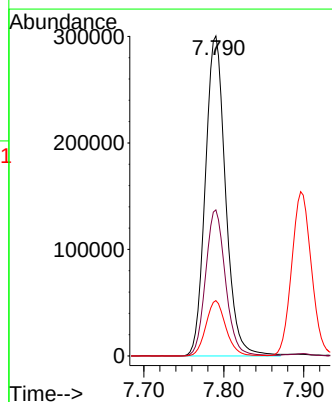
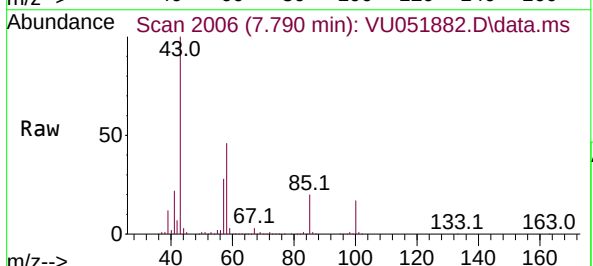
Tgt Ion: 43 Resp: 529428

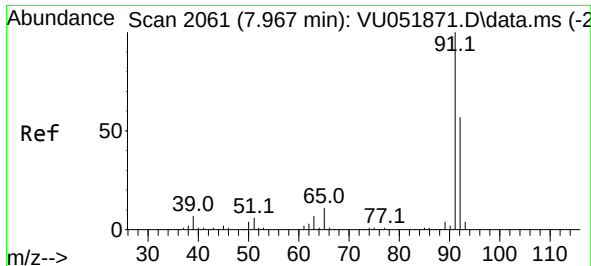
Ion Ratio Lower Upper

43 100

58 45.0 35.4 53.2

100 17.1 13.4 20.0





#42

Toluene

Concen: 54.532 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. 0.000 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

Instrument :

MSVOA\_U

ClientSampleId :

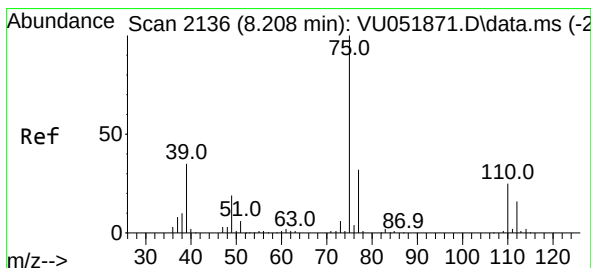
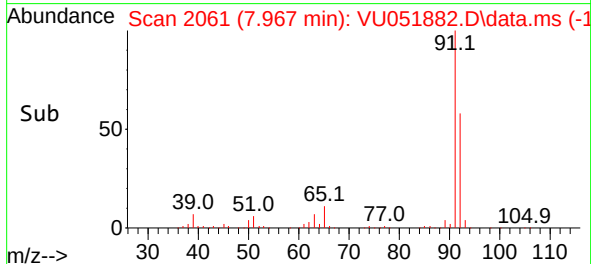
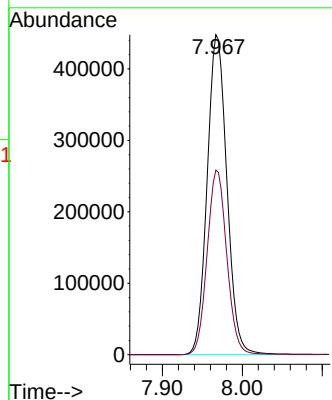
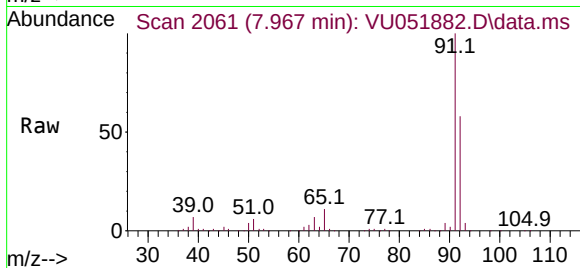
VSTD050122

Tgt Ion: 91 Resp: 767897

Ion Ratio Lower Upper

91 100

92 57.7 39.5 73.4



#44

trans-1,3-Dichloropropene

Concen: 52.293 ug/L

RT: 8.208 min Scan# 2136

Delta R.T. 0.000 min

Lab File: VU051882.D

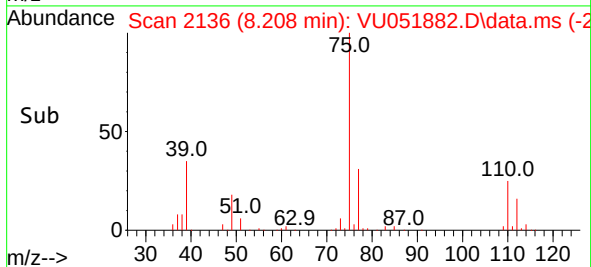
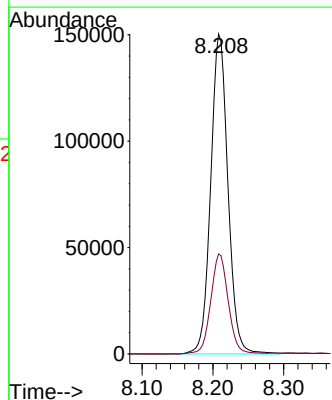
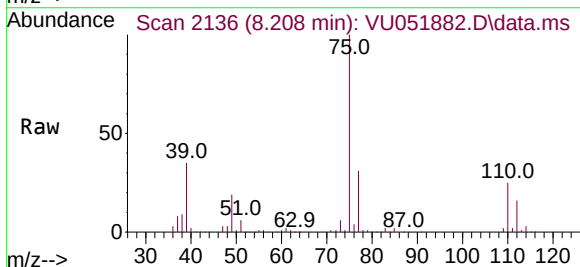
Acq: 16 Nov 2022 15:13

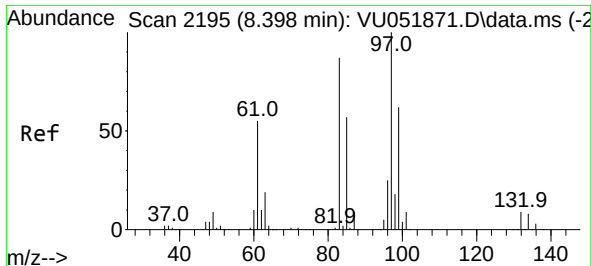
Tgt Ion: 75 Resp: 254109

Ion Ratio Lower Upper

75 100

77 31.2 21.8 40.6



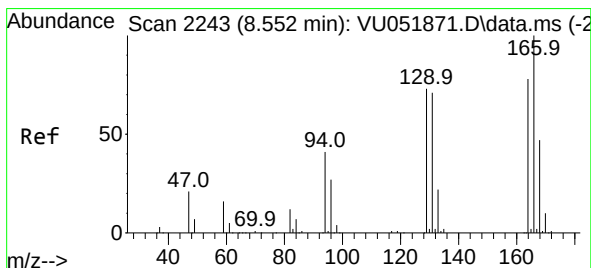
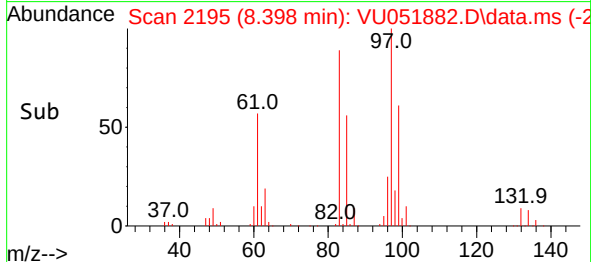
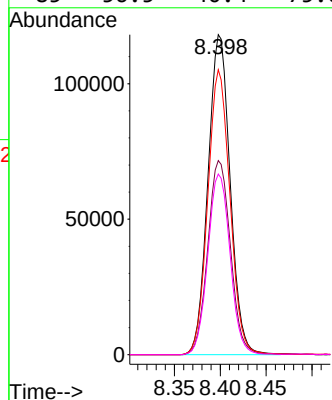
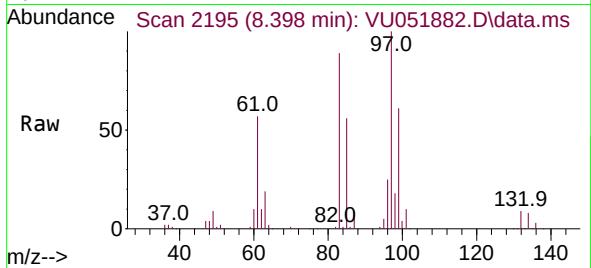


#45  
1,1,2-Trichloroethane  
Concen: 50.427 ug/L  
RT: 8.398 min Scan# 2195  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

Tgt Ion: 97 Resp: 198659

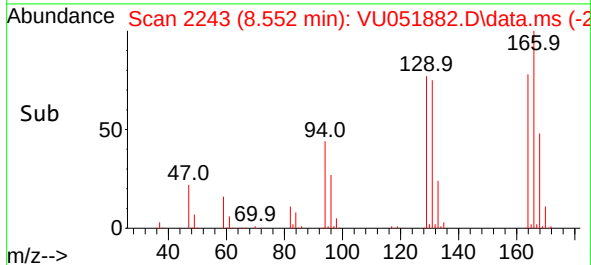
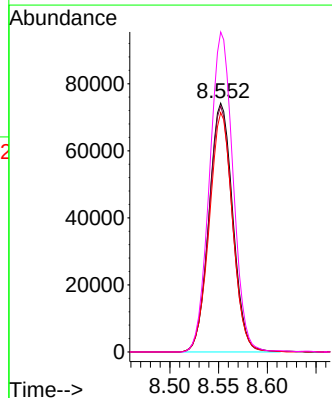
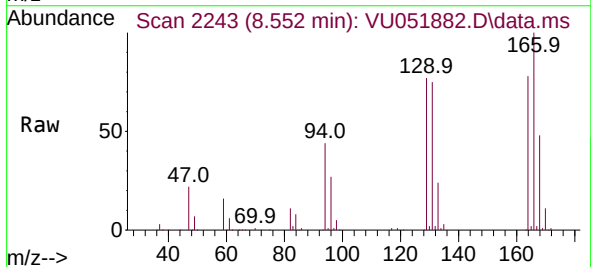
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 60.7  | 44.3  | 82.3  |
| 83  | 89.1  | 62.3  | 115.7 |
| 85  | 56.5  | 40.4  | 75.0  |

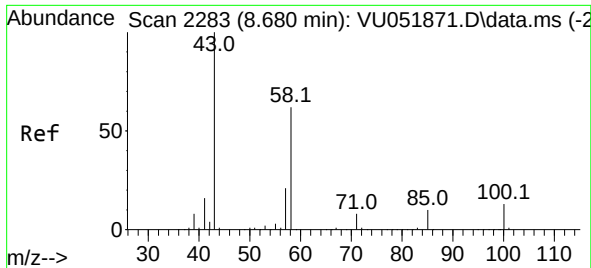


#46  
Tetrachloroethene  
Concen: 48.772 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion: 164 Resp: 126333

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 98.8  | 68.5  | 127.1 |
| 131 | 96.2  | 66.6  | 123.8 |
| 166 | 128.6 | 91.9  | 170.7 |

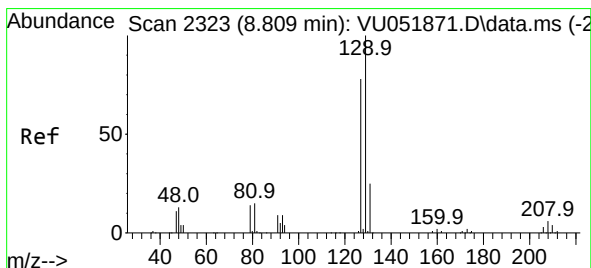
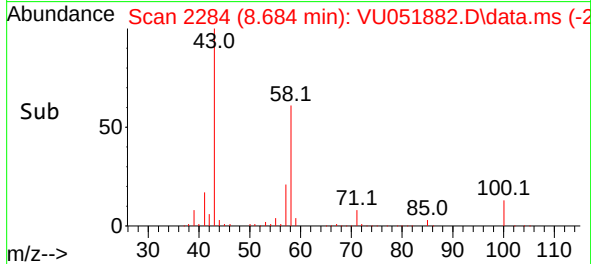
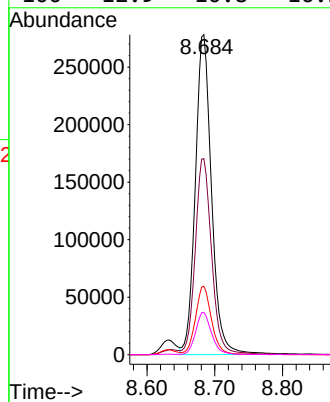
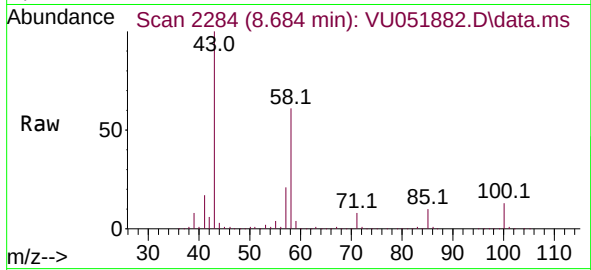




#48  
2-Hexanone  
Concen: 105.824 ug/L  
RT: 8.684 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

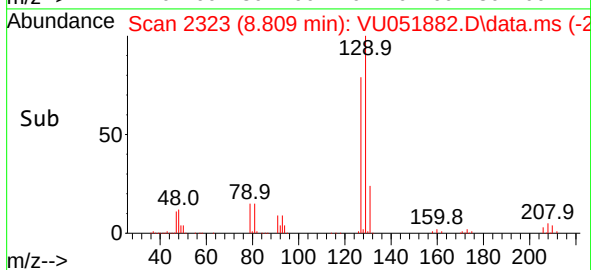
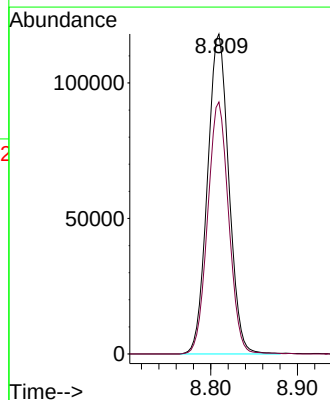
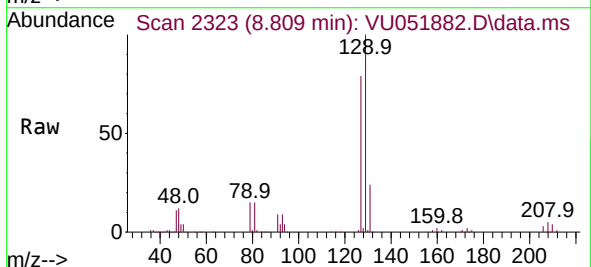
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

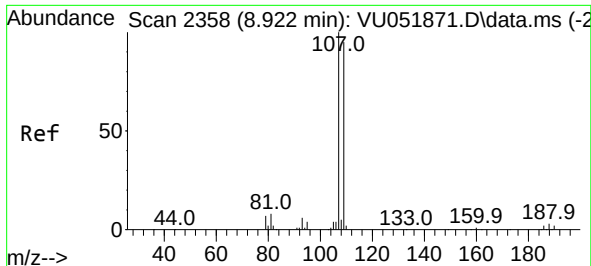
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 463990 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 61.5  | 50.6  | 76.0   |
| 57       | 21.3  | 16.8  | 25.2   |
| 100      | 12.9  | 10.8  | 16.2   |



#49  
Dibromochloromethane  
Concen: 49.818 ug/L  
RT: 8.809 min Scan# 2323  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 202361 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 78.8  | 54.4  | 101.0  |





#50

1,2-Dibromoethane

Concen: 50.714 ug/L

RT: 8.922 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050122

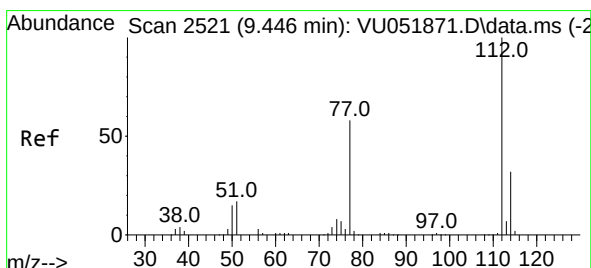
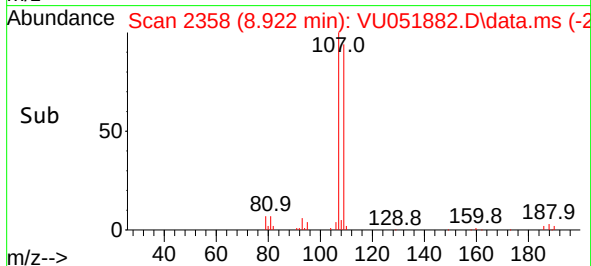
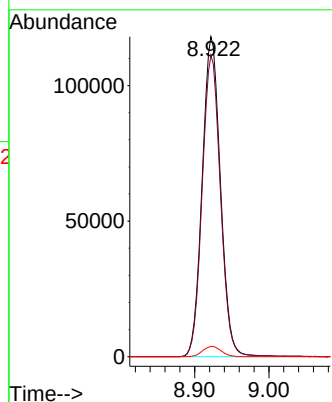
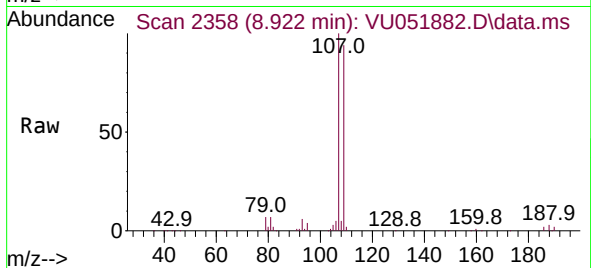
Tgt Ion:107 Resp: 201125

Ion Ratio Lower Upper

107 100

109 94.2 65.0 120.6

188 3.2 2.9 4.3



#51

Chlorobenzene

Concen: 50.875 ug/L

RT: 9.446 min Scan# 2521

Delta R.T. 0.000 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

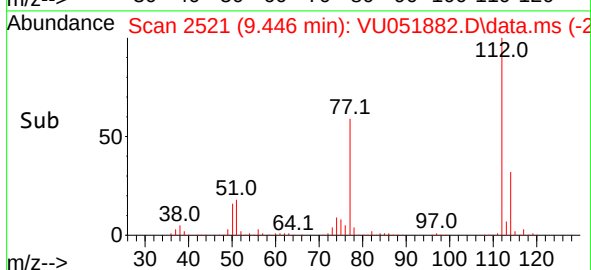
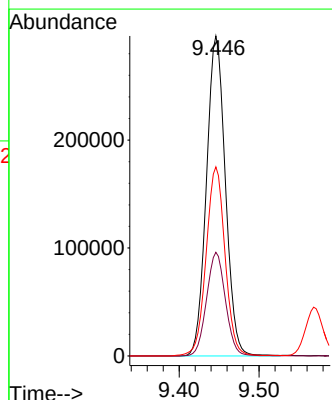
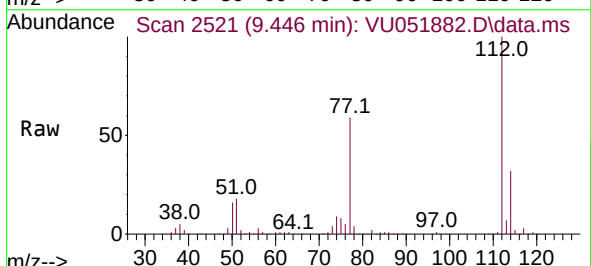
Tgt Ion:112 Resp: 489532

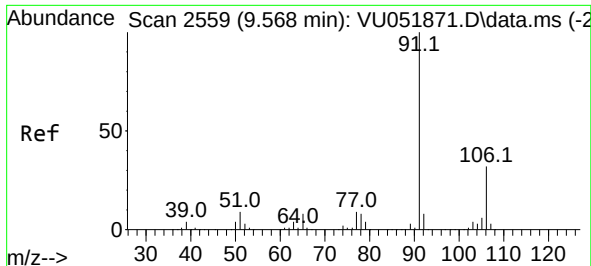
Ion Ratio Lower Upper

112 100

114 32.4 22.2 41.2

77 59.1 46.7 70.1

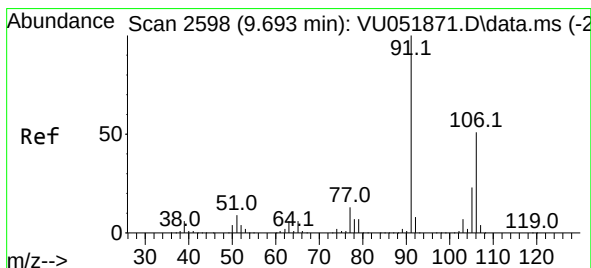
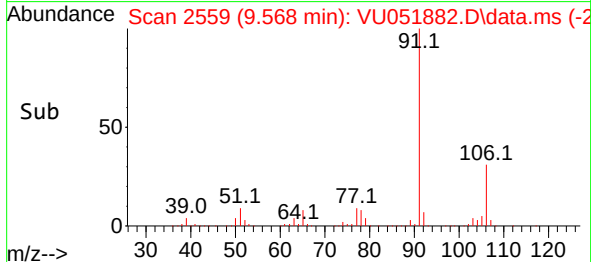
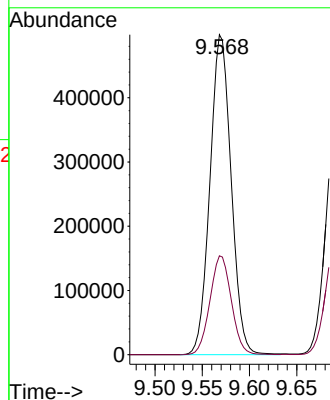
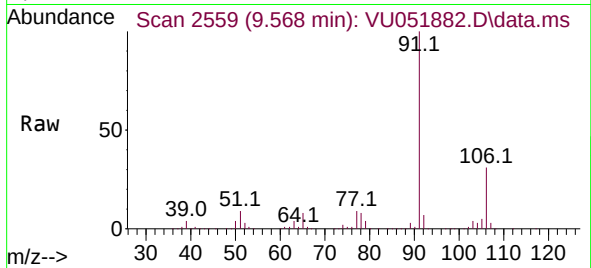




#52  
Ethylbenzene  
Concen: 53.910 ug/L  
RT: 9.568 min Scan# 2559  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

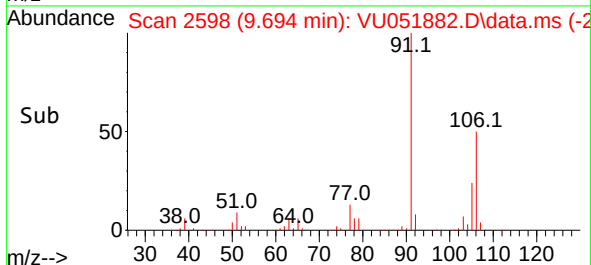
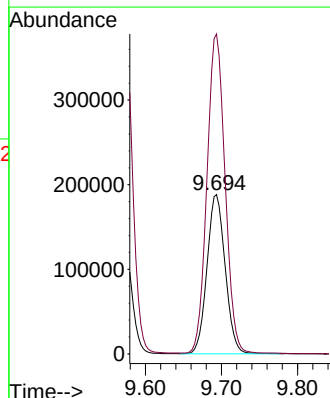
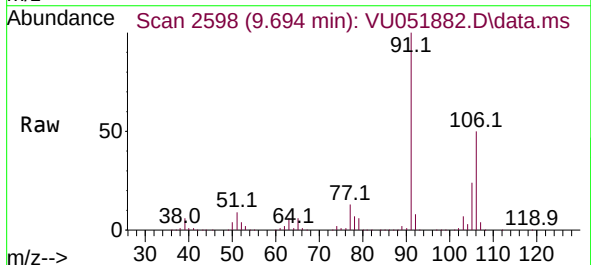
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

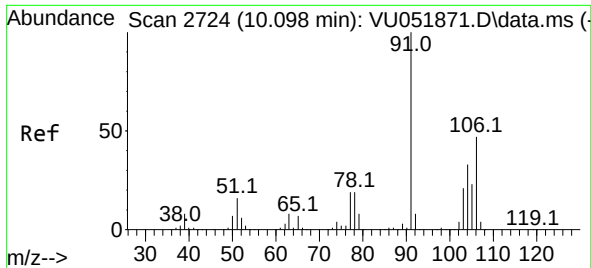
Tgt Ion: 91 Resp: 776911  
Ion Ratio Lower Upper  
91 100  
106 30.9 21.3 39.6



#53  
m,p-Xylene  
Concen: 55.953 ug/L  
RT: 9.694 min Scan# 2598  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion: 106 Resp: 312123  
Ion Ratio Lower Upper  
106 100  
91 200.8 141.7 263.3

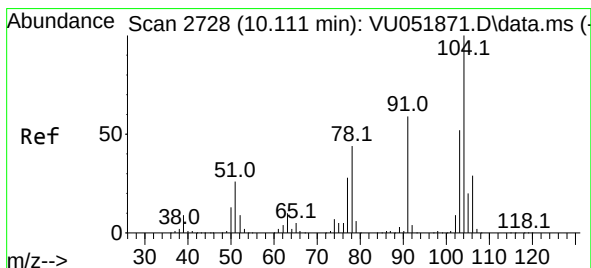
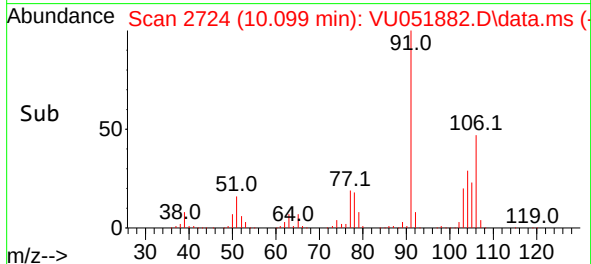
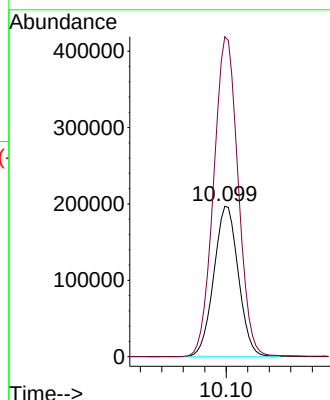
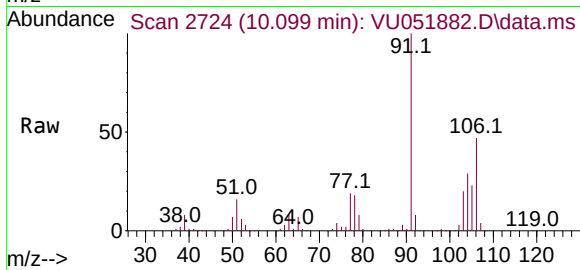




#54  
o-Xylene  
Concen: 54.985 ug/L  
RT: 10.099 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

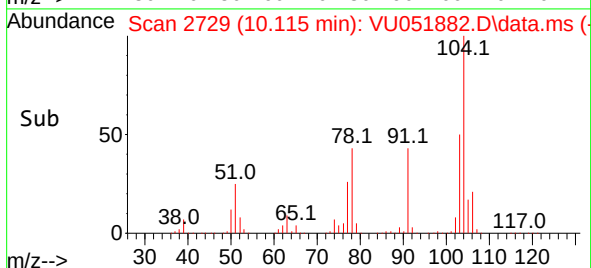
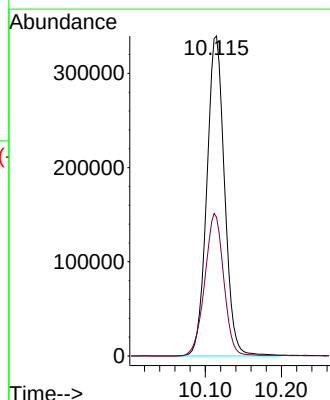
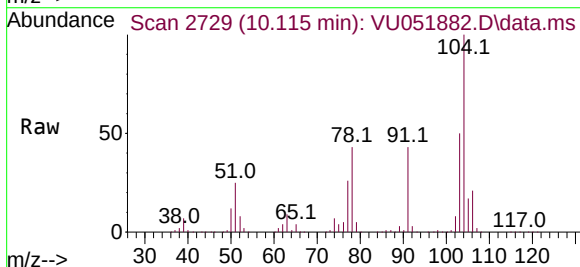
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

Tgt Ion:106 Resp: 312182  
Ion Ratio Lower Upper  
106 100  
91 212.8 149.7 278.1

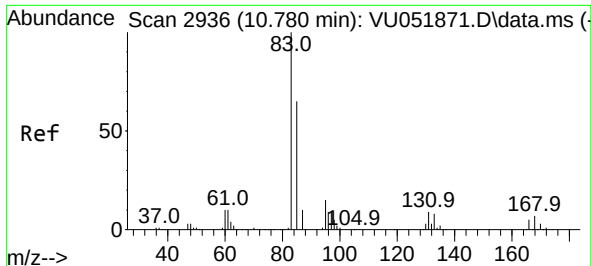


#55  
Styrene  
Concen: 56.156 ug/L  
RT: 10.115 min Scan# 2729  
Delta R.T. 0.003 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion:104 Resp: 550134  
Ion Ratio Lower Upper  
104 100  
78 43.3 30.3 56.3



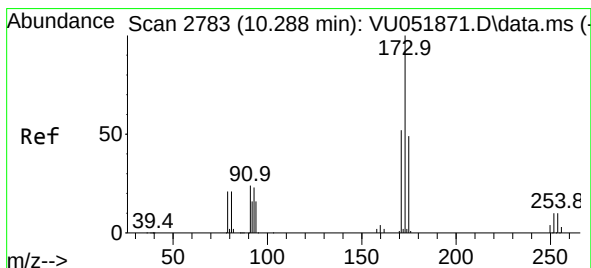
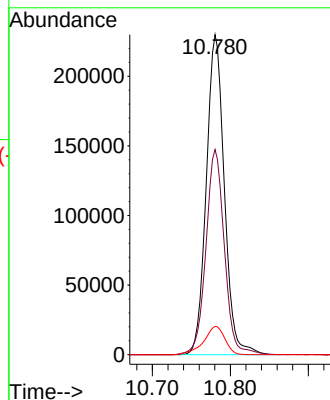
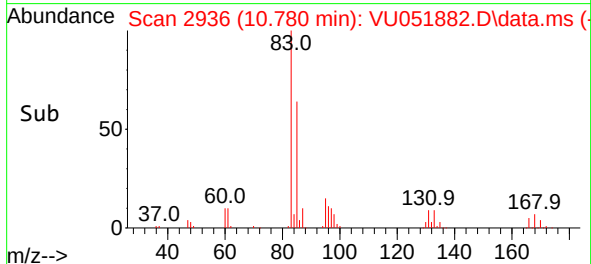
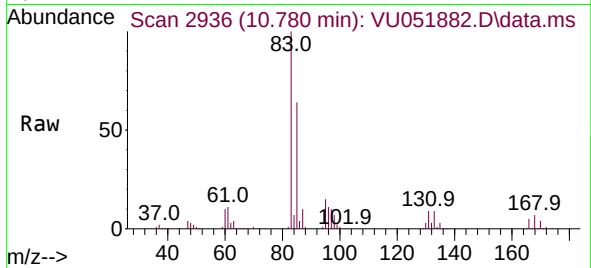




#57  
1,1,2,2-Tetrachloroethane  
Concen: 49.789 ug/L  
RT: 10.780 min Scan# 2936  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

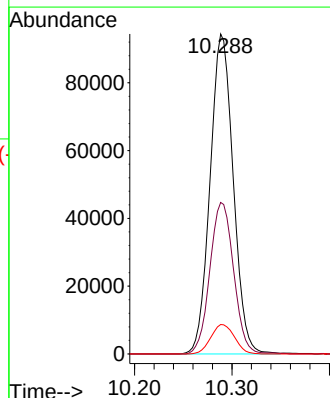
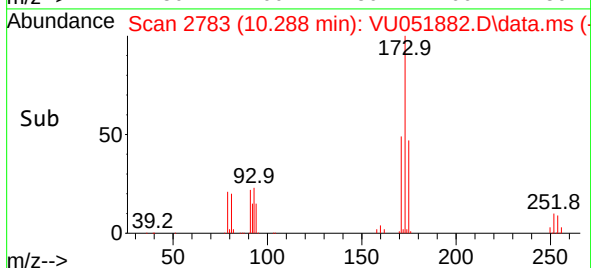
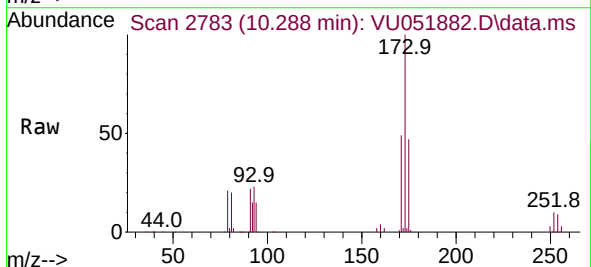
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

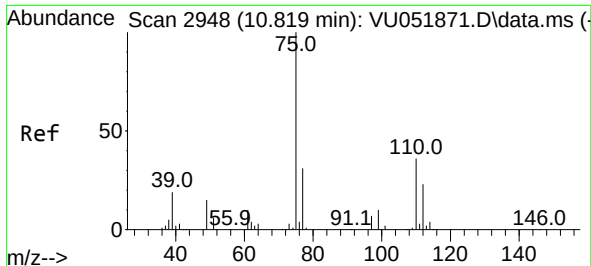
Tgt Ion: 83 Resp: 370648  
Ion Ratio Lower Upper  
83 100  
85 64.1 44.9 83.3  
131 8.9 6.8 10.2



#59  
Bromoform  
Concen: 46.024 ug/L  
RT: 10.288 min Scan# 2783  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion:173 Resp: 155822  
Ion Ratio Lower Upper  
173 100  
175 48.4 38.9 58.3  
254 9.4 7.4 11.2

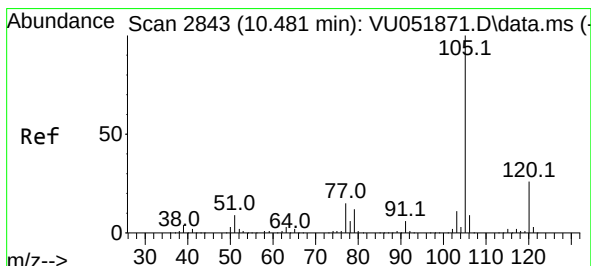
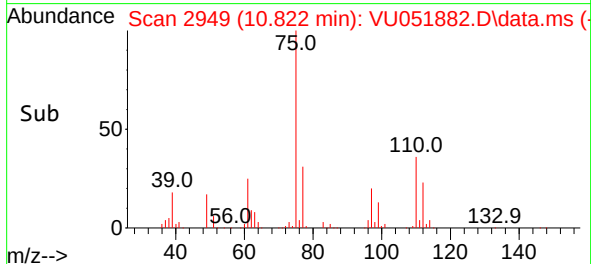
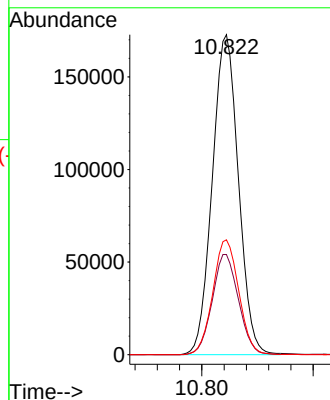
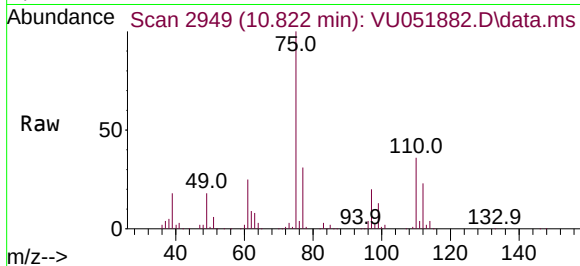




#60  
1,2,3-Trichloropropane  
Concen: 47.092 ug/L  
RT: 10.822 min Scan# 2948  
Delta R.T. 0.003 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

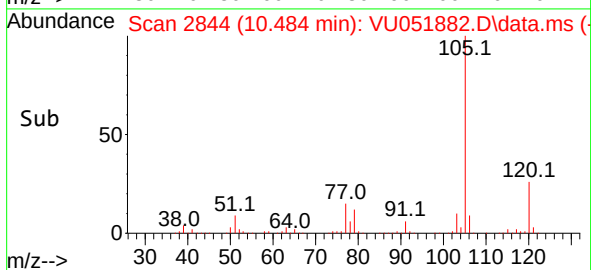
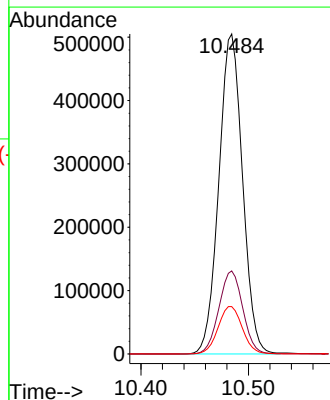
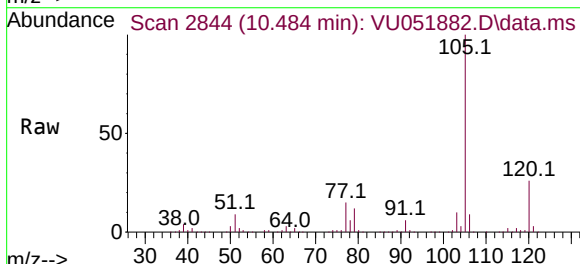
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

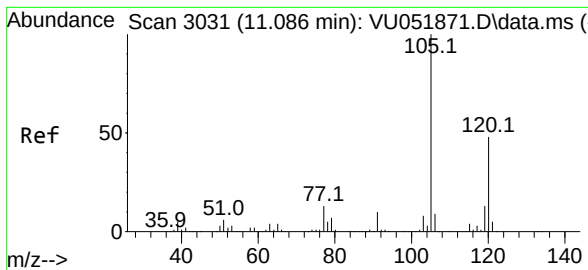
Tgt Ion: 75 Resp: 281297  
Ion Ratio Lower Upper  
75 100  
77 31.5 26.2 39.4  
110 35.7 29.0 43.4



#61  
Isopropylbenzene  
Concen: 52.988 ug/L  
RT: 10.484 min Scan# 2844  
Delta R.T. 0.003 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion: 105 Resp: 773342  
Ion Ratio Lower Upper  
105 100  
120 26.2 21.1 31.7  
77 15.2 12.2 18.4

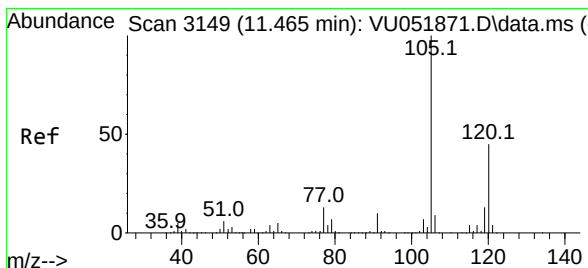
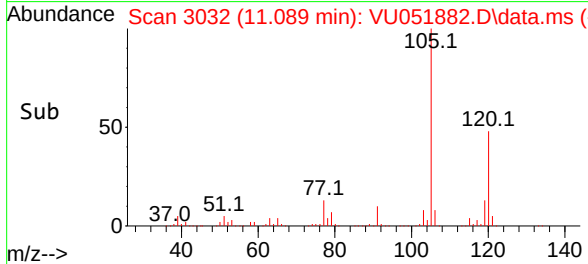
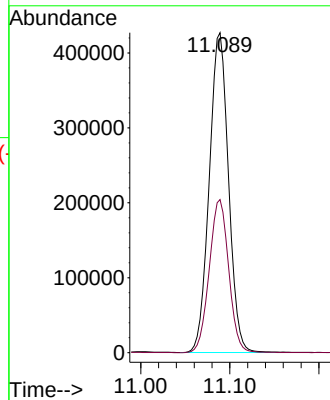
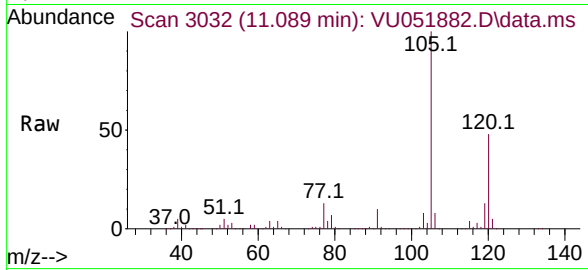




#62  
1,3,5-Trimethylbenzene  
Concen: 53.767 ug/L  
RT: 11.089 min Scan# 3031  
Delta R.T. 0.003 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

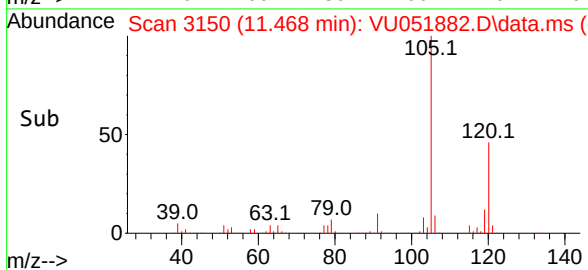
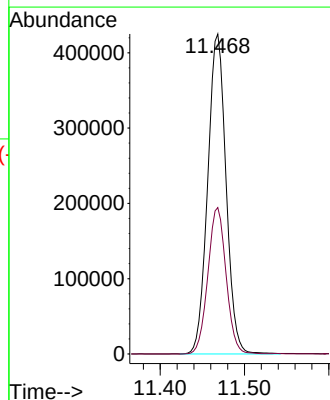
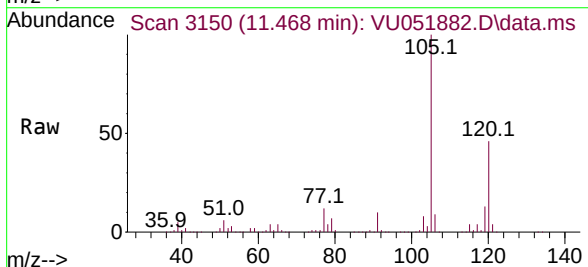
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

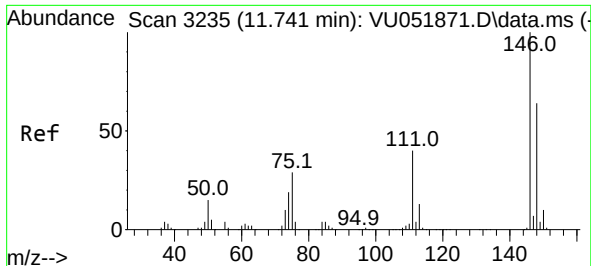
Tgt Ion:105 Resp: 639417  
Ion Ratio Lower Upper  
105 100  
120 48.4 39.1 58.7



#63  
1,2,4-Trimethylbenzene  
Concen: 55.404 ug/L  
RT: 11.468 min Scan# 3150  
Delta R.T. 0.003 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion:105 Resp: 643733  
Ion Ratio Lower Upper  
105 100  
120 45.5 36.2 54.2

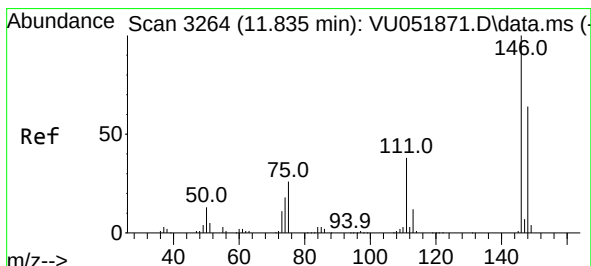
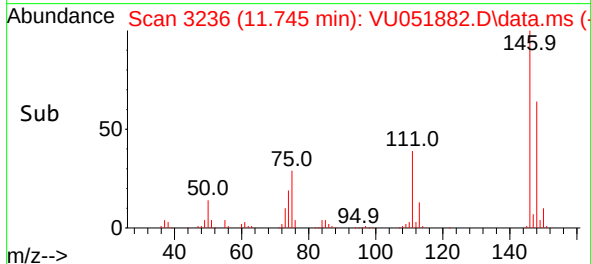
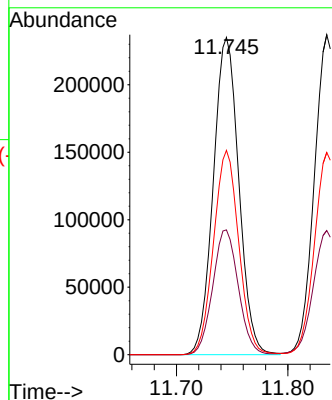
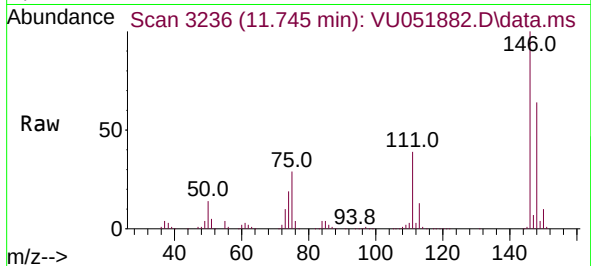




#64  
1,3-Dichlorobenzene  
Concen: 50.534 ug/L  
RT: 11.745 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

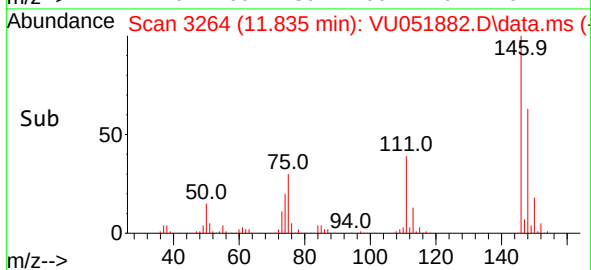
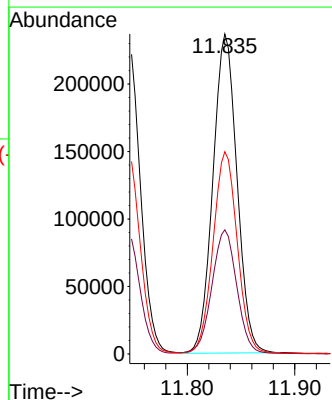
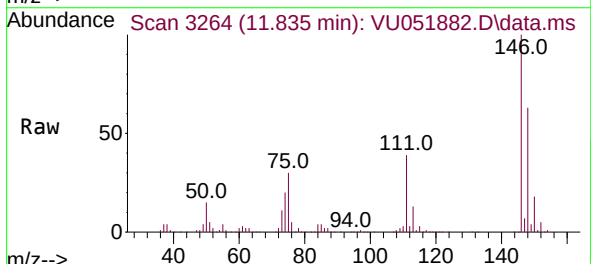
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

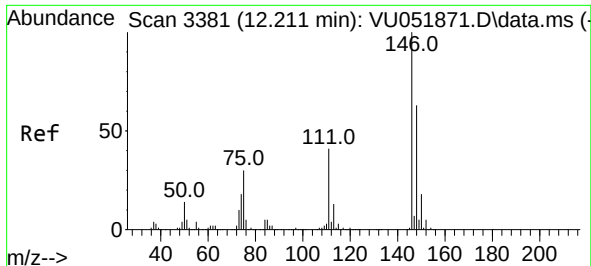
Tgt Ion:146 Resp: 373801  
Ion Ratio Lower Upper  
146 100  
111 39.3 28.1 52.1  
148 64.4 44.4 82.4



#65  
1,4-Dichlorobenzene  
Concen: 49.062 ug/L  
RT: 11.835 min Scan# 3264  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion:146 Resp: 367510  
Ion Ratio Lower Upper  
146 100  
111 38.8 26.7 49.5  
148 63.2 44.4 82.4





#67

1,2-Dichlorobenzene

Concen: 50.088 ug/L

RT: 12.211 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050122

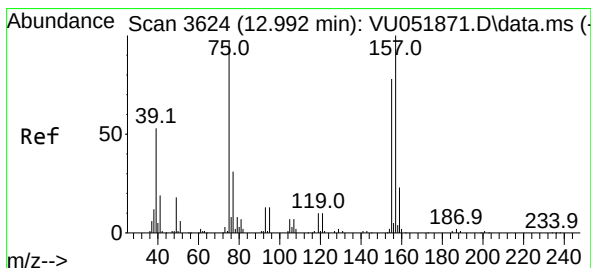
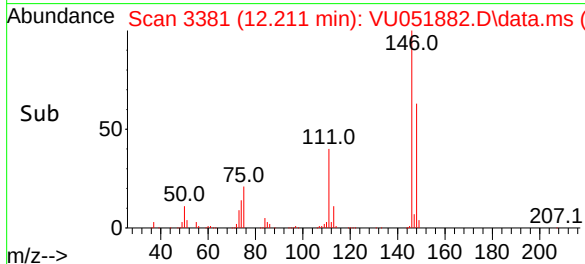
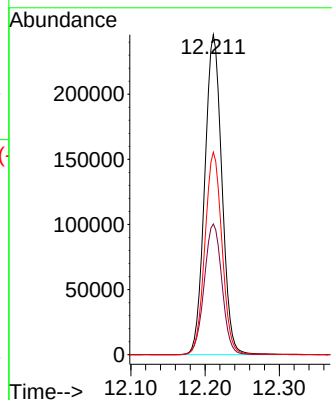
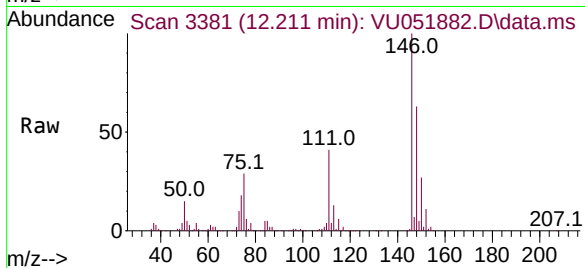
Tgt Ion:146 Resp: 393970

Ion Ratio Lower Upper

146 100

111 40.8 33.6 50.4

148 63.3 50.9 76.3



#68

1,2-Dibromo-3-chloropropane

Concen: 46.879 ug/L

RT: 12.996 min Scan# 3625

Delta R.T. 0.003 min

Lab File: VU051882.D

Acq: 16 Nov 2022 15:13

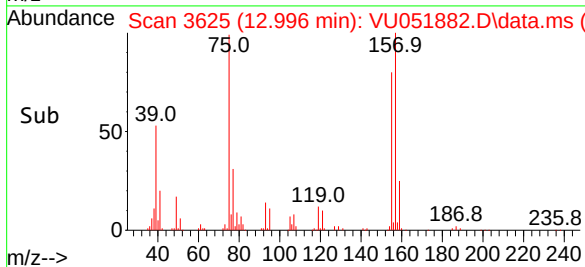
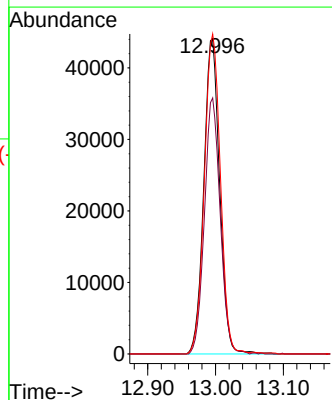
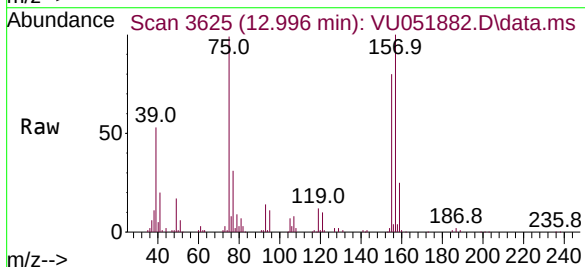
Tgt Ion: 75 Resp: 71694

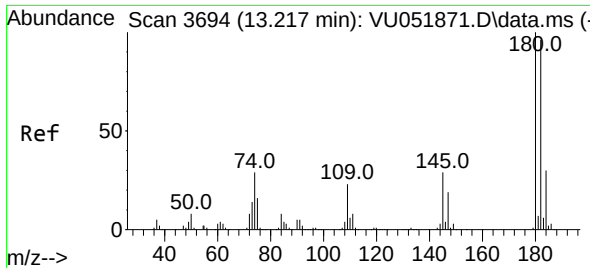
Ion Ratio Lower Upper

75 100

155 81.2 63.0 94.6

157 101.5 79.4 119.0

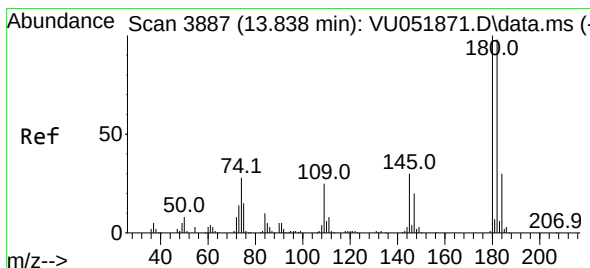
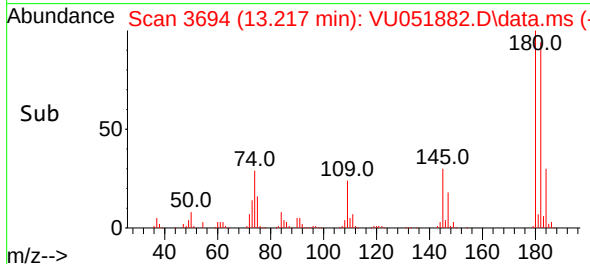
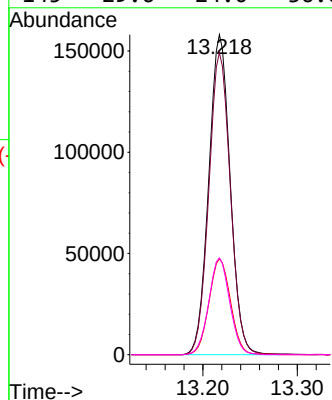
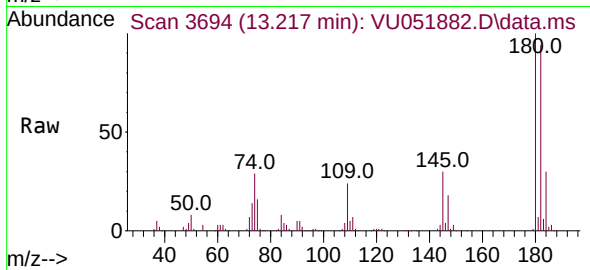




#69  
 1,3,5-Trichlorobenzene  
 Concen: 50.696 ug/L  
 RT: 13.217 min Scan# 3694  
 Delta R.T. 0.000 min  
 Lab File: VU051882.D  
 Acq: 16 Nov 2022 15:13

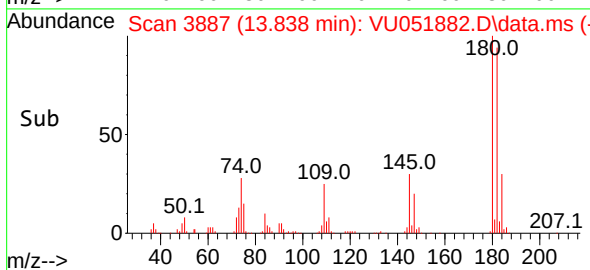
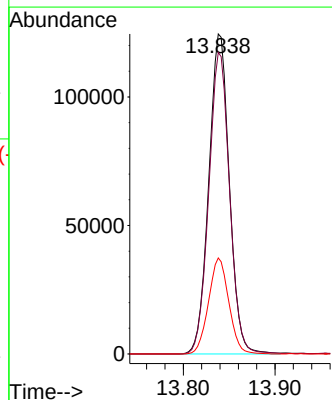
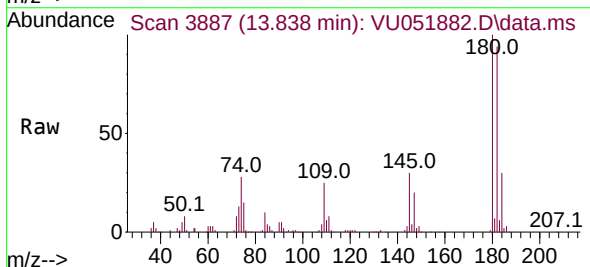
Instrument :  
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 ClientSampleId :  
 VSTD050122

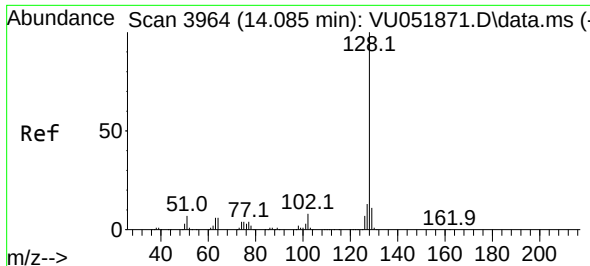
Tgt Ion:180 Resp: 248787  
 Ion Ratio Lower Upper  
 180 100  
 182 94.6 77.0 115.4  
 184 30.1 23.8 35.8  
 145 29.6 24.0 36.0



#70  
 1,2,4-trichlorobenzene  
 Concen: 49.835 ug/L  
 RT: 13.838 min Scan# 3887  
 Delta R.T. 0.000 min  
 Lab File: VU051882.D  
 Acq: 16 Nov 2022 15:13

Tgt Ion:180 Resp: 193848  
 Ion Ratio Lower Upper  
 180 100  
 182 95.1 76.4 114.6  
 145 29.6 24.2 36.2

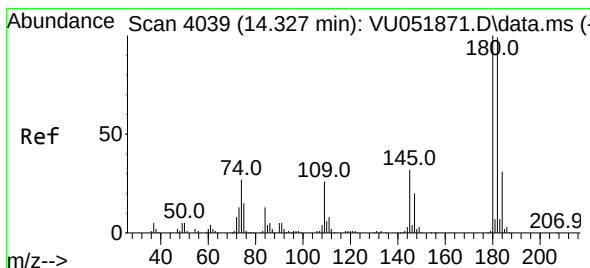
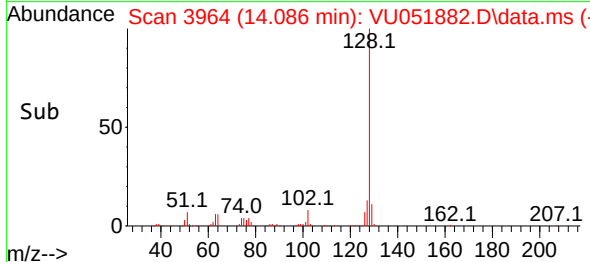
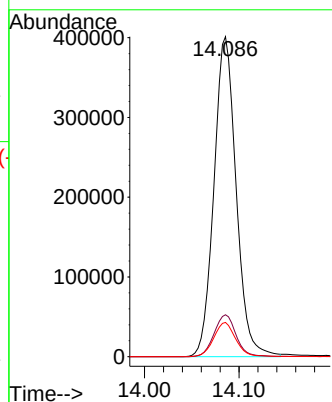
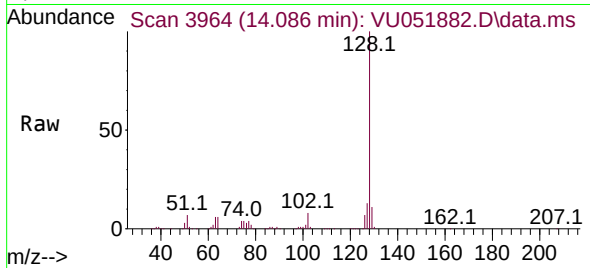




#71  
Naphthalene  
Concen: 51.195 ug/L  
RT: 14.086 min Scan# 3964  
Delta R.T. 0.000 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050122

Tgt Ion:128 Resp: 654932  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.4 15.6  
129 10.7 8.5 12.7



#72  
1,2,3-Trichlorobenzene  
Concen: 50.489 ug/L  
RT: 14.330 min Scan# 4040  
Delta R.T. 0.003 min  
Lab File: VU051882.D  
Acq: 16 Nov 2022 15:13

Tgt Ion:180 Resp: 214953  
Ion Ratio Lower Upper  
180 100  
182 97.2 76.9 115.3  
145 32.5 24.9 37.3

