

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU102822\  
 Data File : VU051566.D  
 Acq On : 28 Oct 2022 14:01  
 Operator : JC/MD  
 Sample : VSTD00564  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005064

Quant Time: Oct 28 22:31:21 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR102822WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Oct 28 22:30:04 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Difluorobenzene        | 6.247  | 114  | 218972   | 5.000  | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 9.417  | 117  | 225881   | 5.000  | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809 | 152  | 118870   | 5.000  | ug/L  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 4) Vinyl Chloride-d3          | 1.597  | 65   | 84360    | 5.115  | ug/L  | 0.00     |
| 7) Chloroethane-d5            | 1.912  | 69   | 90971    | 5.289  | ug/L  | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.562  | 65   | 30249    | 5.054  | ug/L  | 0.00     |
| 20) 2-Butanone-d5             | 4.636  | 46   | 337336   | 56.480 | ug/L  | 0.00     |
| 24) Chloroform-d              | 5.063  | 84   | 206956   | 5.363  | ug/L  | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.700  | 65   | 109057   | 5.231  | ug/L  | 0.00     |
| 32) Benzene-d6                | 5.726  | 84   | 378221   | 5.306  | ug/L  | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 6.690  | 67   | 131148   | 5.262  | ug/L  | 0.00     |
| 41) Toluene-d8                | 7.896  | 98   | 304805   | 5.438  | ug/L  | 0.00     |
| 43) trans-1,3-Dichloroprop... | 8.179  | 79   | 40806    | 5.354  | ug/L  | 0.00     |
| 46) 2-Hexanone-d5             | 8.632  | 63   | 259549   | 56.573 | ug/L  | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755 | 84   | 123169   | 5.392  | ug/L  | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 12.192 | 152  | 112732   | 5.167  | ug/L  | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.382  | 85   | 117997   | 4.927  | ug/L  | 100      |
| 3) Chloromethane              | 1.523  | 50   | 156285   | 5.177  | ug/L  | 100      |
| 5) Vinyl chloride             | 1.601  | 62   | 149473   | 5.169  | ug/L  | 100      |
| 6) Bromomethane               | 1.855  | 94   | 68673    | 5.009  | ug/L  | 100      |
| 8) Chloroethane               | 1.932  | 64   | 90964    | 5.180  | ug/L  | 100      |
| 9) Trichlorofluoromethane     | 2.134  | 101  | 156978   | 4.945  | ug/L  | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578  | 101  | 91643    | 4.911  | ug/L  | 100      |
| 12) 1,1-Dichloroethene        | 2.578  | 96   | 96881    | 5.089  | ug/L  | 100      |
| 13) Acetone                   | 2.649  | 43   | 161684   | 53.353 | ug/L  | 100      |
| 14) Carbon disulfide          | 2.790  | 76   | 312715   | 5.096  | ug/L  | 100      |
| 15) Methyl Acetate            | 2.954  | 43   | 42269    | 5.328  | ug/L  | 100      |
| 16) Methylene chloride        | 3.044  | 84   | 130519   | 4.186  | ug/L  | 100      |
| 17) Methyl tert-butyl Ether   | 3.363  | 73   | 230189   | 5.273  | ug/L  | 100      |
| 18) trans-1,2-Dichloroethene  | 3.353  | 96   | 106039   | 5.190  | ug/L  | 100      |
| 19) 1,1-Dichloroethane        | 3.867  | 63   | 198487   | 5.267  | ug/L  | 100      |
| 21) 2-Butanone                | 4.713  | 43   | 262693   | 55.354 | ug/L  | 100      |
| 22) cis-1,2-Dichloroethene    | 4.665  | 96   | 116962   | 5.174  | ug/L  | 100      |
| 23) Bromochloromethane        | 4.973  | 128  | 55003    | 5.204  | ug/L  | 100      |
| 25) Chloroform                | 5.086  | 83   | 208020   | 5.321  | ug/L  | 100      |
| 27) 1,2-Dichloroethane        | 5.793  | 62   | 128349   | 5.335  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane     | 5.314  | 97   | 157697   | 5.142  | ug/L  | 100      |
| 30) Cyclohexane               | 5.385  | 56   | 137025   | 4.852  | ug/L  | 100      |
| 31) Carbon tetrachloride      | 5.523  | 117  | 131458   | 5.012  | ug/L  | 100      |
| 33) Benzene                   | 5.771  | 78   | 468531   | 5.256  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 110711   | 5.147  | ug/L  | 100      |
| 35) Methylcyclohexane         | 6.761  | 83   | 144518   | 4.859  | ug/L  | 100      |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 120275   | 5.246  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.105  | 83   | 144547   | 5.162  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 150905   | 5.130  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 631658   | 54.928 | ug/L  | 100      |
| 42) Toluene                   | 7.967  | 91   | 489106   | 5.343  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 130883   | 5.325  | ug/L  | 100      |

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 Sample : VSTD00564  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

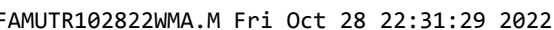
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005064

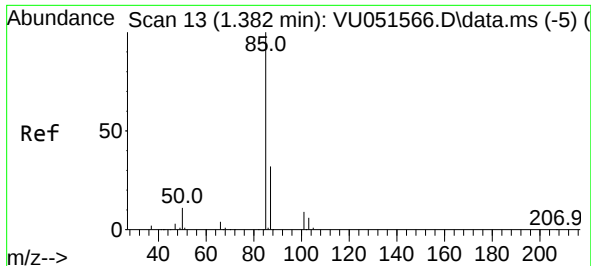
Quant Time: Oct 28 22:31:21 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR102822WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Oct 28 22:30:04 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 88246    | 5.253  | ug/L  | 100      |
| 47) Tetrachloroethene         | 8.552  | 164  | 84725    | 5.143  | ug/L  | 100      |
| 48) 2-Hexanone                | 8.684  | 43   | 477702   | 56.120 | ug/L  | 100      |
| 49) Dibromochloromethane      | 8.809  | 129  | 99273    | 5.172  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 81132    | 5.353  | ug/L  | 100      |
| 51) Chlorobenzene             | 9.443  | 112  | 299279   | 5.194  | ug/L  | 100      |
| 52) Ethylbenzene              | 9.568  | 91   | 460639   | 5.215  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.693  | 106  | 183734   | 5.355  | ug/L  | 100      |
| 54) o-Xylene                  | 10.099 | 106  | 182361   | 5.439  | ug/L  | 100      |
| 55) Styrene                   | 10.111 | 104  | 313194   | 5.587  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 110797   | 5.319  | ug/L  | 100      |
| 59) Bromoform                 | 10.288 | 173  | 55028    | 5.010  | ug/L  | 100      |
| 60) Isopropylbenzene          | 10.481 | 105  | 449011   | 5.174  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.819 | 75   | 76988    | 5.008  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 113727   | 4.868  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 338672   | 5.028  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 217847   | 5.043  | ug/L  | 100      |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 214862   | 4.960  | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 210035   | 4.991  | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 15218    | 4.808  | ug/L  | 100      |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 147978   | 4.806  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 108019   | 4.569  | ug/L  | 100      |
| 71) Naphthalene               | 14.086 | 128  | 192374   | 4.359  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 111298   | 4.662  | ug/L  | 100      |
| -----                         |        |      |          |        |       |          |

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

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QLast Update : Fri Oct 28 22:30:04 2022  
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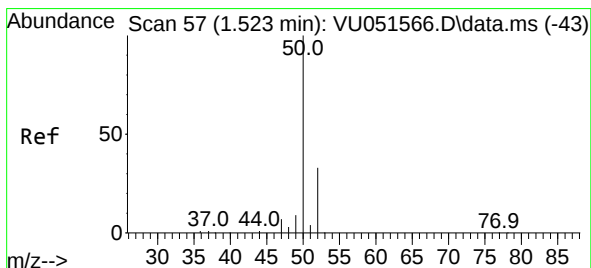
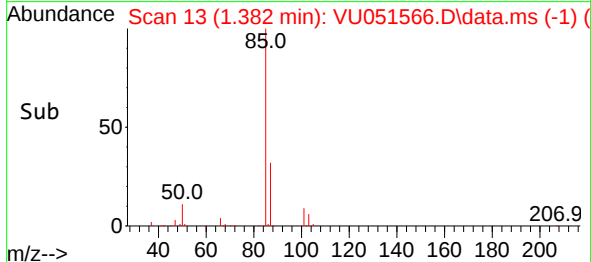
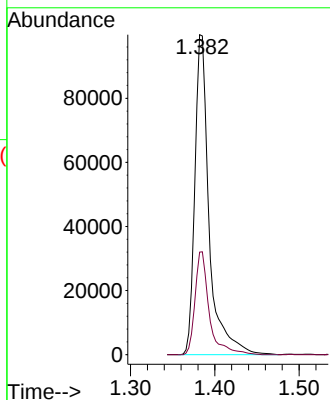
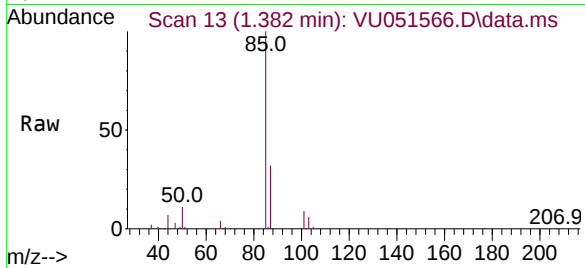




#2  
Dichlorodifluoromethane  
Concen: 4.927 ug/L  
RT: 1.382 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

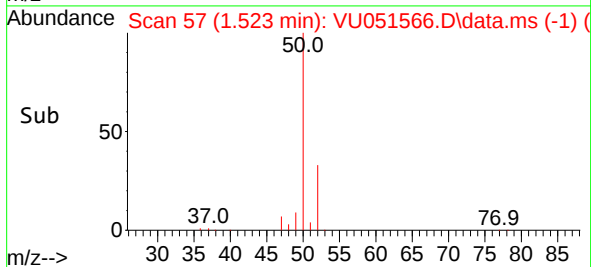
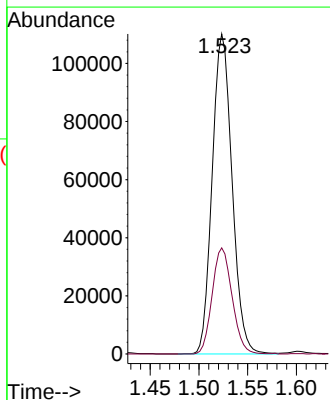
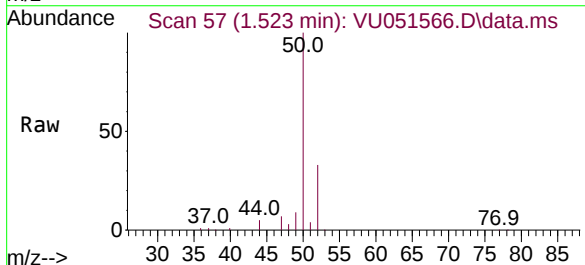
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005064

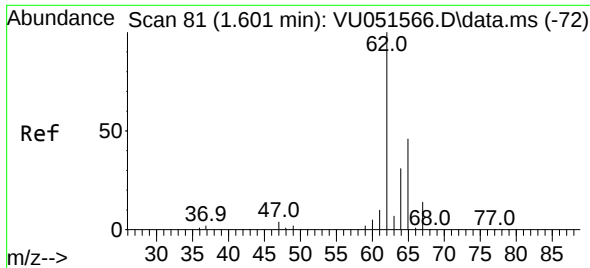
Tgt Ion: 85 Resp: 117997  
Ion Ratio Lower Upper  
85 100  
87 32.1 25.7 38.5



#3  
Chloromethane  
Concen: 5.177 ug/L  
RT: 1.523 min Scan# 57  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Tgt Ion: 50 Resp: 156285  
Ion Ratio Lower Upper  
50 100  
52 33.2 23.2 43.2

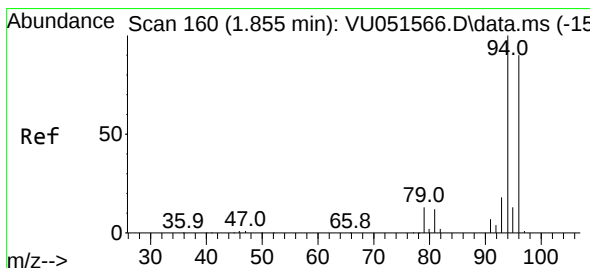
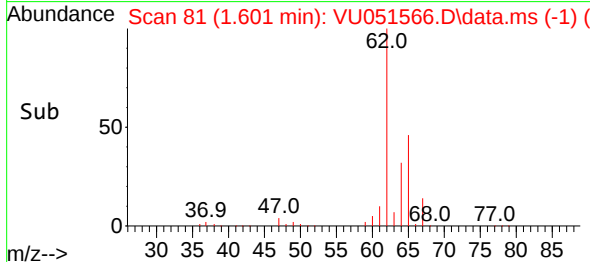
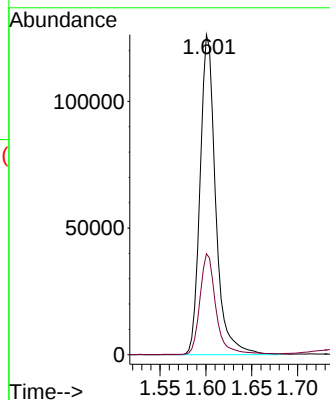
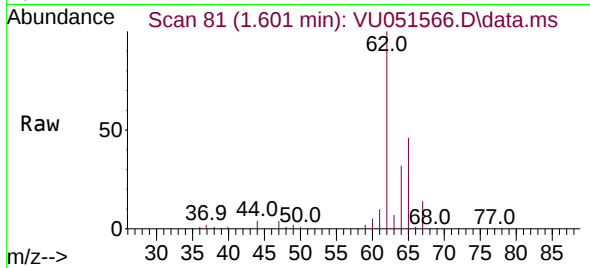




#5  
 Vinyl chloride  
 Concen: 5.169 ug/L  
 RT: 1.601 min Scan# 81  
 Delta R.T. 0.000 min  
 Lab File: VU051566.D  
 Acq: 28 Oct 2022 14:01

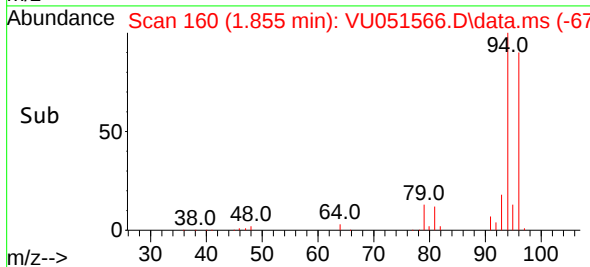
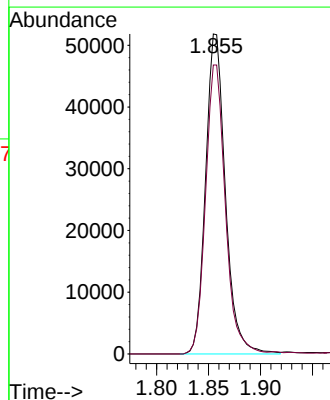
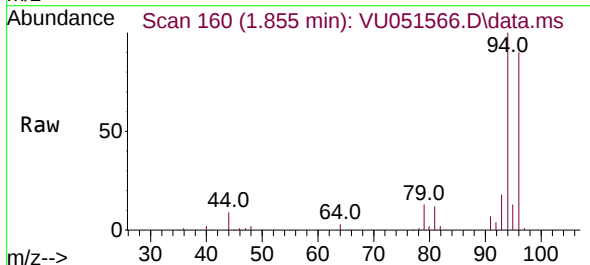
Instrument :  
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 ClientSampleId :  
 VSTD005064

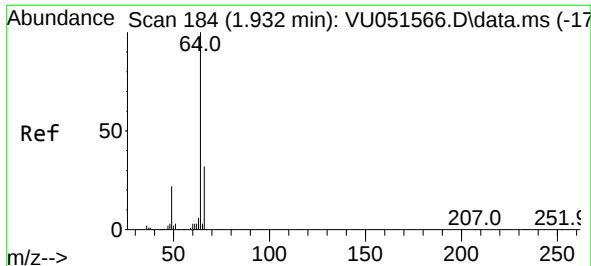
Tgt Ion: 62 Resp: 149473  
 Ion Ratio Lower Upper  
 62 100  
 64 31.6 22.1 41.1



#6  
 Bromomethane  
 Concen: 5.009 ug/L  
 RT: 1.855 min Scan# 160  
 Delta R.T. 0.000 min  
 Lab File: VU051566.D  
 Acq: 28 Oct 2022 14:01

Tgt Ion: 94 Resp: 68673  
 Ion Ratio Lower Upper  
 94 100  
 96 90.3 63.2 117.4

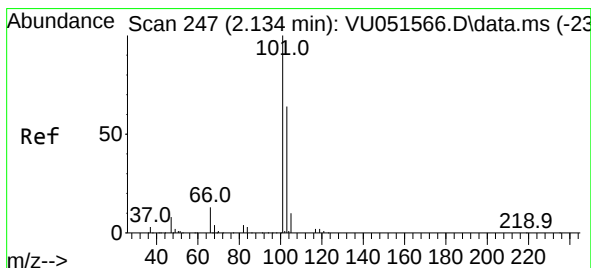
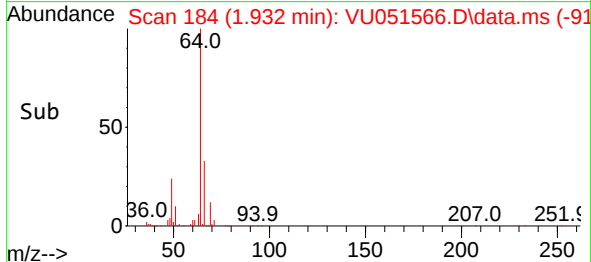
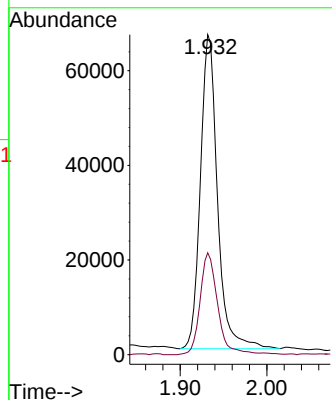
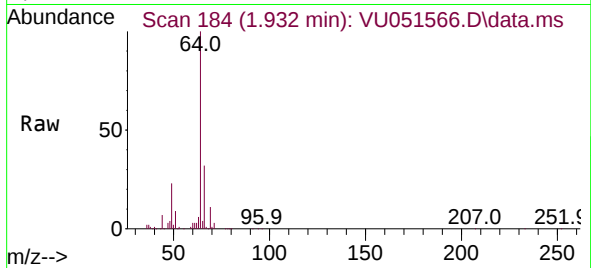




#8  
Chloroethane  
Concen: 5.180 ug/L  
RT: 1.932 min Scan# 184  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

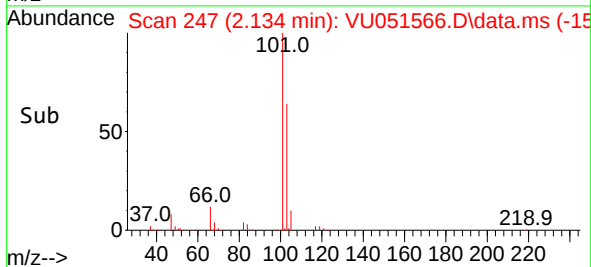
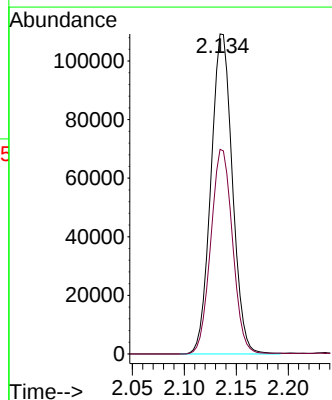
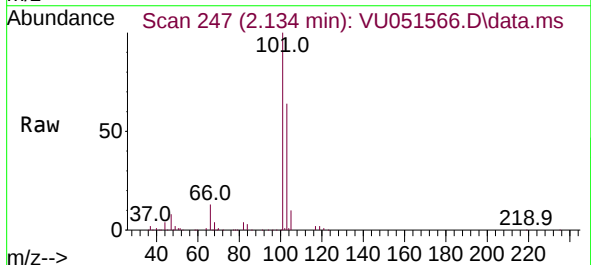
Instrument :  
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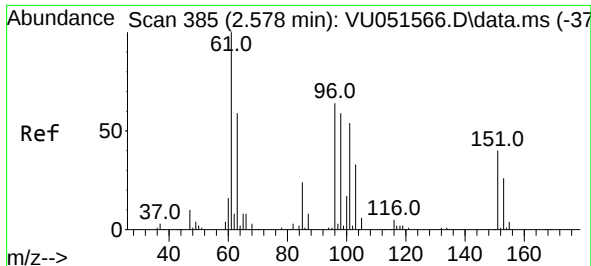
Tgt Ion: 64 Resp: 90964  
Ion Ratio Lower Upper  
64 100  
66 31.9 22.3 41.5



#9  
Trichlorofluoromethane  
Concen: 4.945 ug/L  
RT: 2.134 min Scan# 247  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Tgt Ion:101 Resp: 156978  
Ion Ratio Lower Upper  
101 100  
103 64.7 51.8 77.6





#10

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

Concen: 4.911 ug/L

RT: 2.578 min Scan# 385

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005064

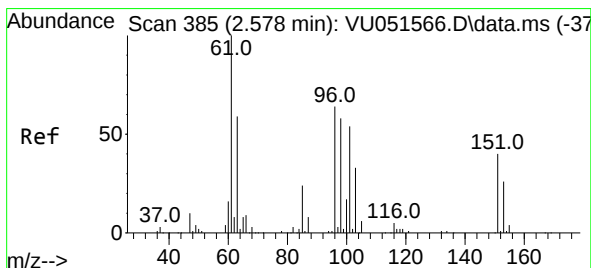
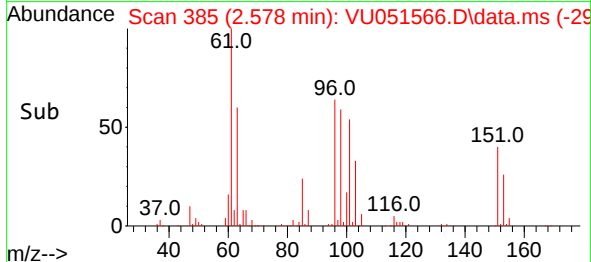
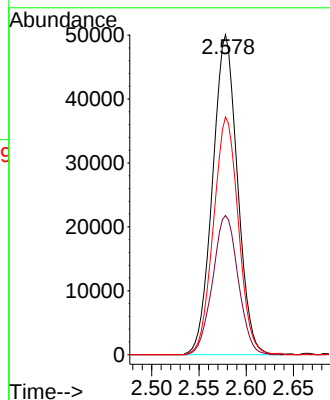
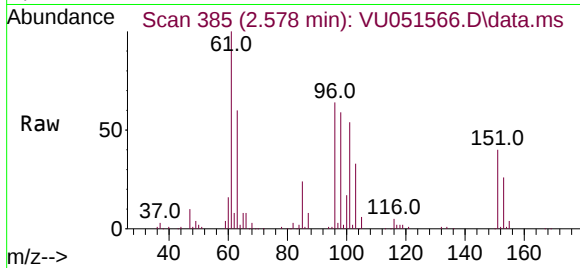
Tgt Ion:101 Resp: 91643

Ion Ratio Lower Upper

101 100

85 44.5 35.6 53.4

151 74.5 59.6 89.4



#12

1,1-Dichloroethene

Concen: 5.089 ug/L

RT: 2.578 min Scan# 385

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

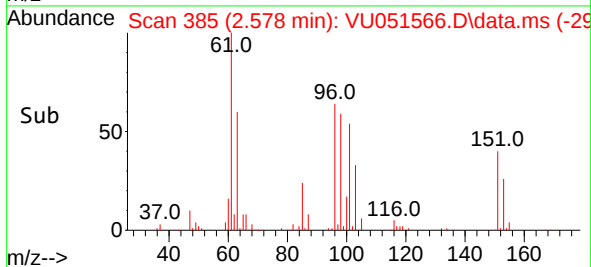
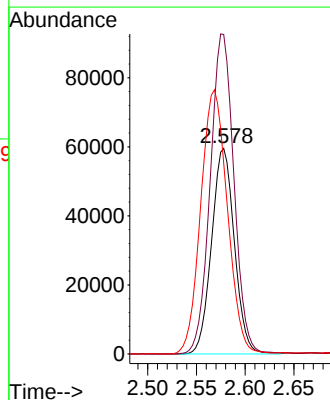
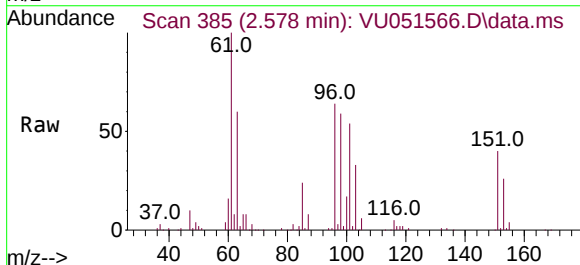
Tgt Ion: 96 Resp: 96881

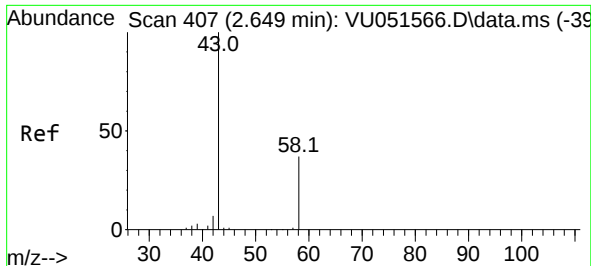
Ion Ratio Lower Upper

96 100

61 155.4 108.8 202.0

63 92.7 64.9 120.5





#13

Acetone

Concen: 53.353 ug/L

RT: 2.649 min Scan# 407

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

Instrument :

MSVOA\_U

ClientSampleId :

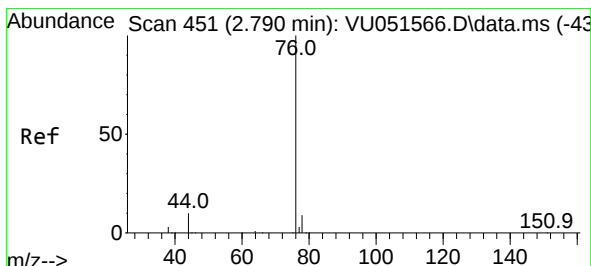
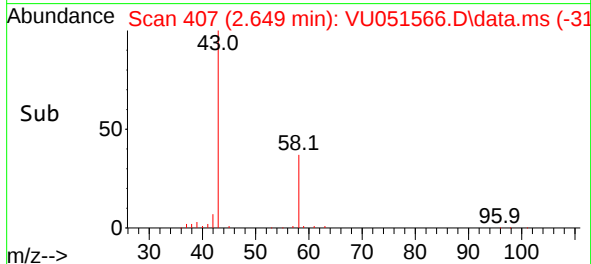
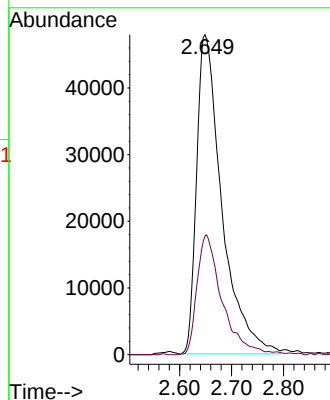
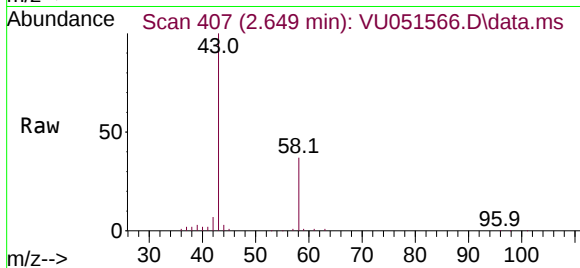
VSTD005064

Tgt Ion: 43 Resp: 161684

Ion Ratio Lower Upper

43 100

58 36.9 0.0 73.8



#14

Carbon disulfide

Concen: 5.096 ug/L

RT: 2.790 min Scan# 451

Delta R.T. 0.000 min

Lab File: VU051566.D

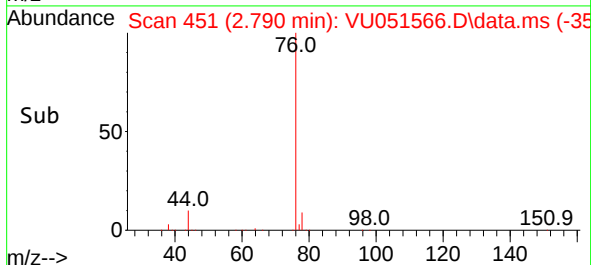
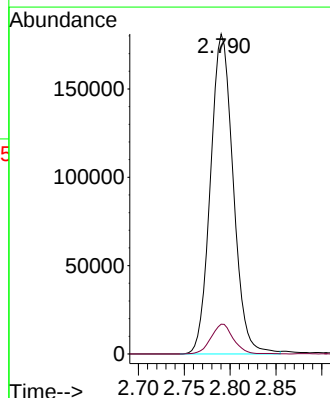
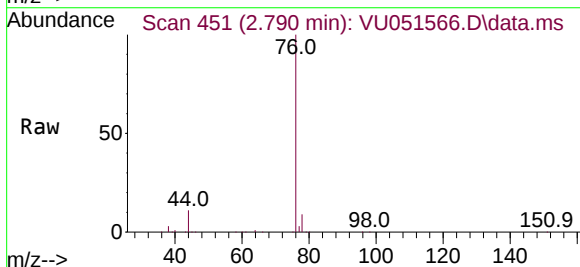
Acq: 28 Oct 2022 14:01

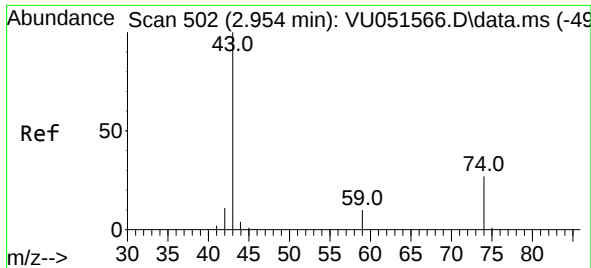
Tgt Ion: 76 Resp: 312715

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2

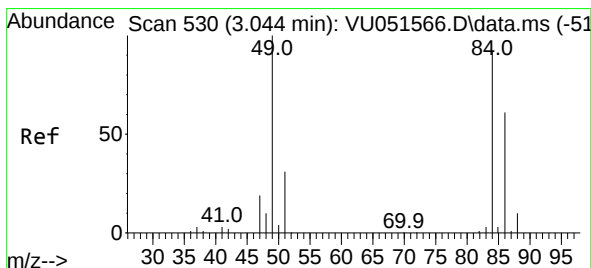
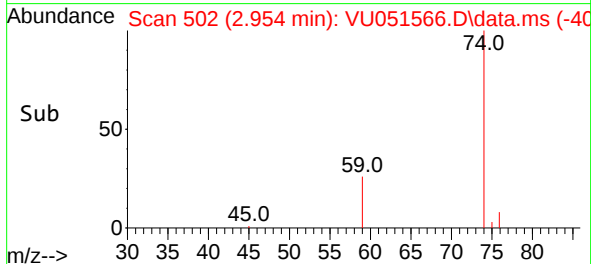
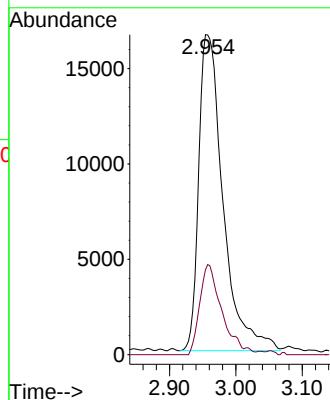
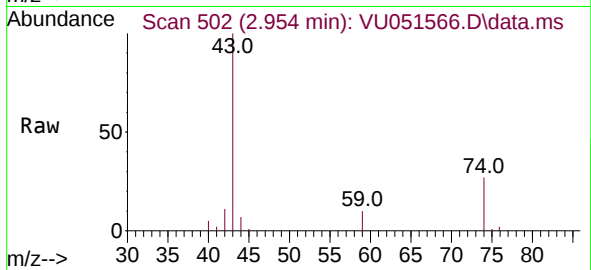




#15  
Methyl Acetate  
Concen: 5.328 ug/L  
RT: 2.954 min Scan# 502  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

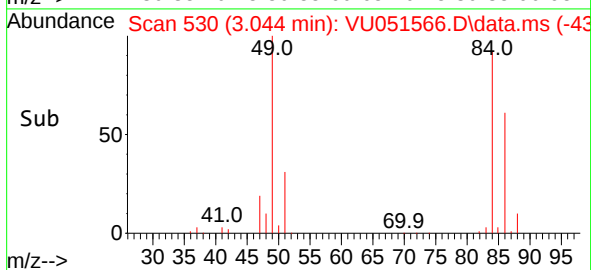
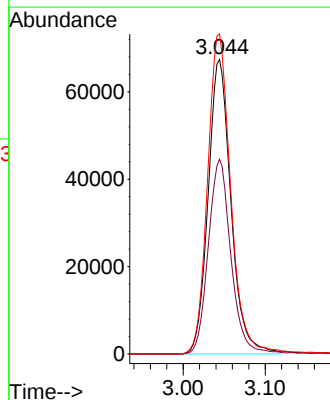
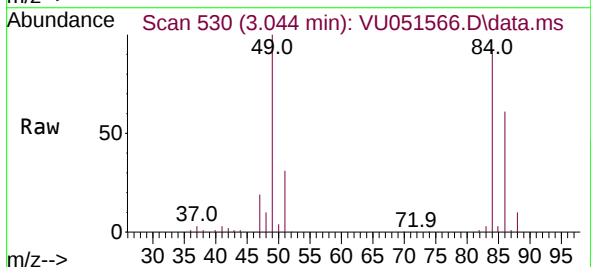
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005064

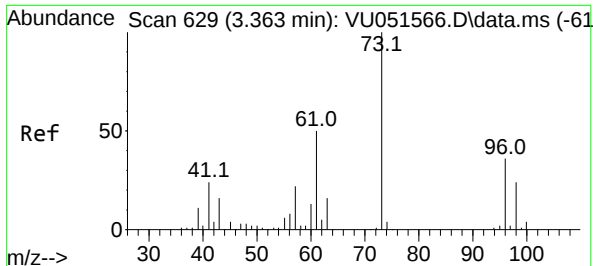
Tgt Ion: 43 Resp: 42269  
Ion Ratio Lower Upper  
43 100  
74 25.3 20.2 30.4



#16  
Methylene chloride  
Concen: 4.186 ug/L  
RT: 3.044 min Scan# 530  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Tgt Ion: 84 Resp: 130519  
Ion Ratio Lower Upper  
84 100  
86 66.1 46.3 85.9  
49 108.6 76.0 141.2





#17

Methyl tert-butyl Ether

Concen: 5.273 ug/L

RT: 3.363 min Scan# 61

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005064

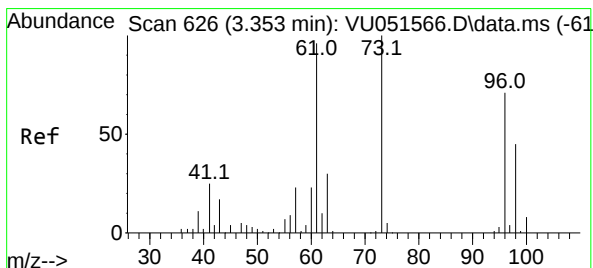
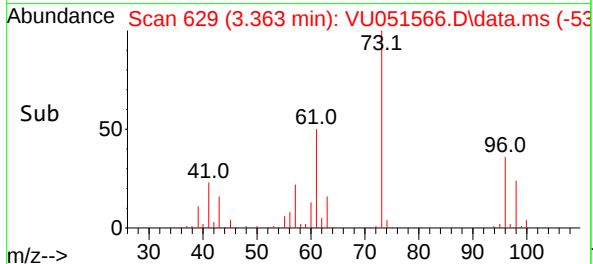
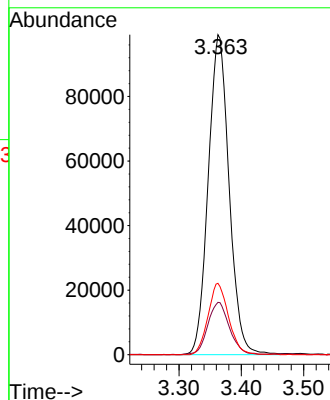
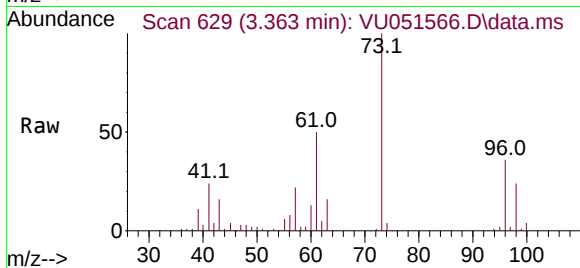
Tgt Ion: 73 Resp: 230189

Ion Ratio Lower Upper

73 100

43 17.0 13.6 20.4

57 21.9 17.5 26.3



#18

trans-1,2-Dichloroethene

Concen: 5.190 ug/L

RT: 3.353 min Scan# 626

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

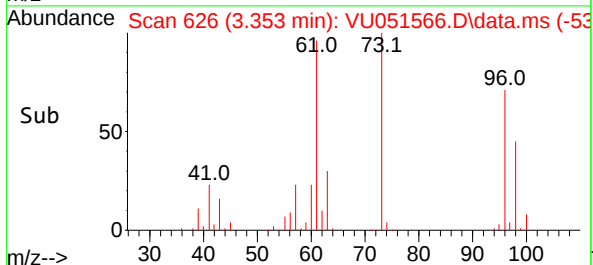
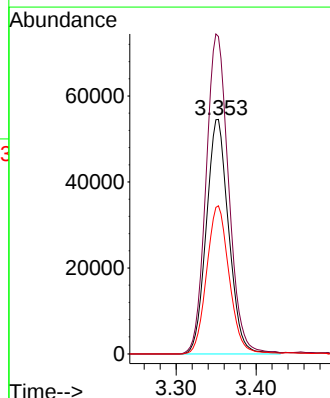
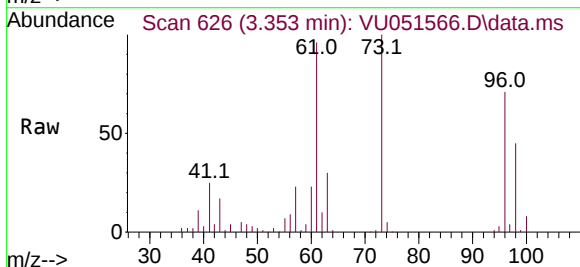
Tgt Ion: 96 Resp: 106039

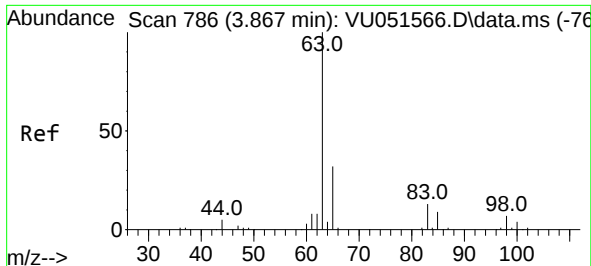
Ion Ratio Lower Upper

96 100

61 135.3 94.7 175.9

98 63.1 44.2 82.0

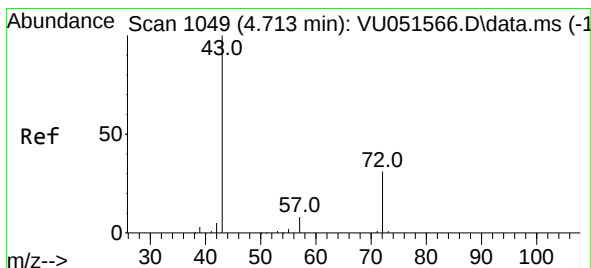
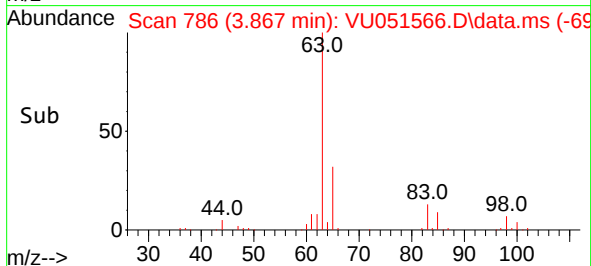
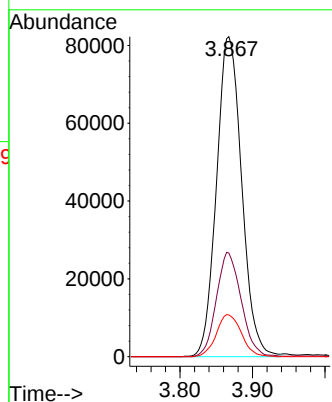
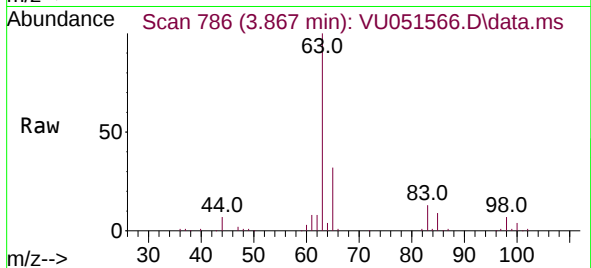




#19  
1,1-Dichloroethane  
Concen: 5.267 ug/L  
RT: 3.867 min Scan# 786  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

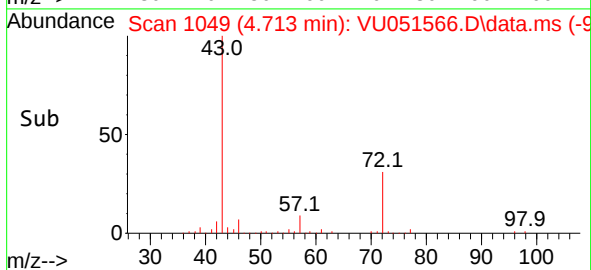
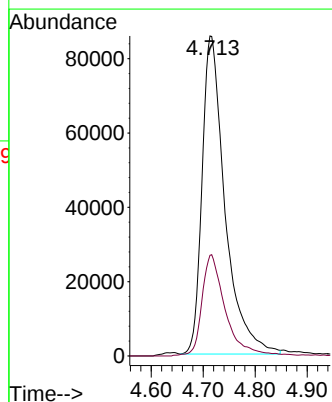
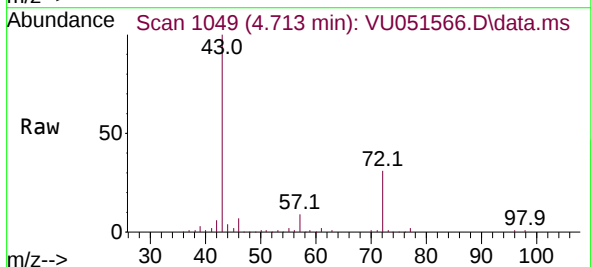
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005064

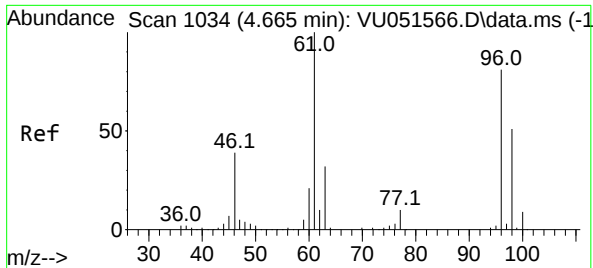
Tgt Ion: 63 Resp: 198487  
Ion Ratio Lower Upper  
63 100  
65 32.4 22.7 42.1  
83 13.1 9.2 17.0



#21  
2-Butanone  
Concen: 55.354 ug/L  
RT: 4.713 min Scan# 1049  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Tgt Ion: 43 Resp: 262693  
Ion Ratio Lower Upper  
43 100  
72 32.3 16.2 48.5

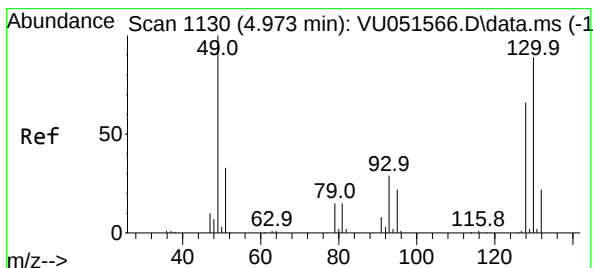
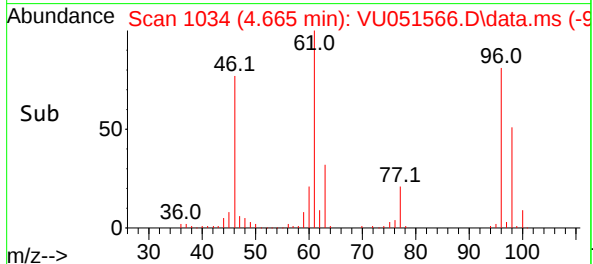
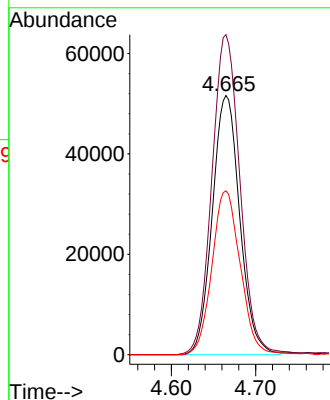
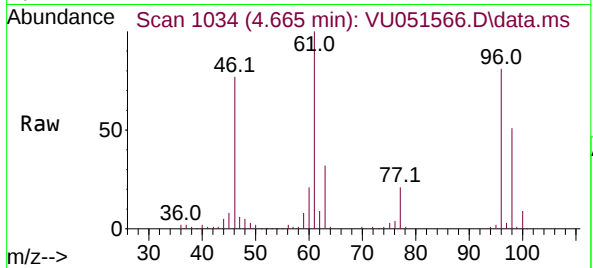




#22  
 cis-1,2-Dichloroethene  
 Concen: 5.174 ug/L  
 RT: 4.665 min Scan# 1034  
 Delta R.T. 0.000 min  
 Lab File: VU051566.D  
 Acq: 28 Oct 2022 14:01

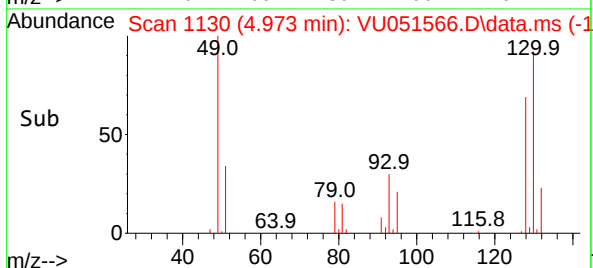
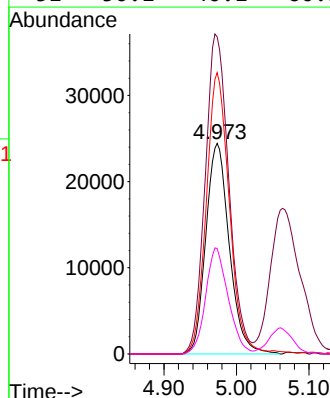
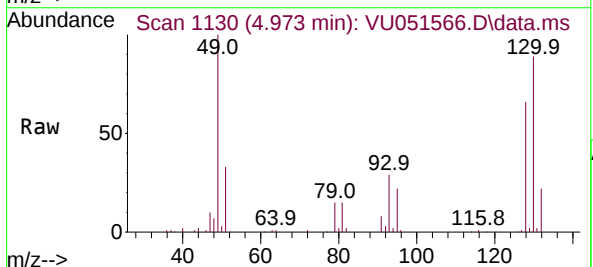
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005064

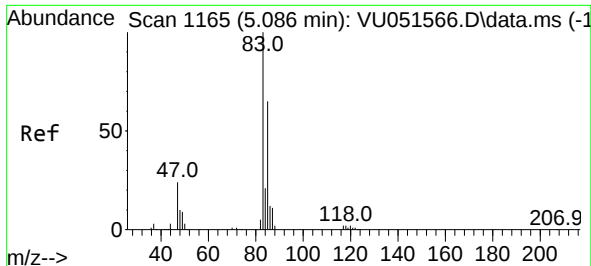
Tgt Ion: 96 Resp: 116962  
 Ion Ratio Lower Upper  
 96 100  
 61 123.4 86.4 160.4  
 98 63.2 44.2 82.2



#23  
 Bromochloromethane  
 Concen: 5.204 ug/L  
 RT: 4.973 min Scan# 1130  
 Delta R.T. 0.000 min  
 Lab File: VU051566.D  
 Acq: 28 Oct 2022 14:01

Tgt Ion: 128 Resp: 55003  
 Ion Ratio Lower Upper  
 128 100  
 49 150.7 105.5 195.9  
 130 133.6 93.5 173.7  
 51 50.1 40.1 60.1





#25

Chloroform

Concen: 5.321 ug/L

RT: 5.086 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

Instrument :

MSVOA\_U

ClientSampleId :

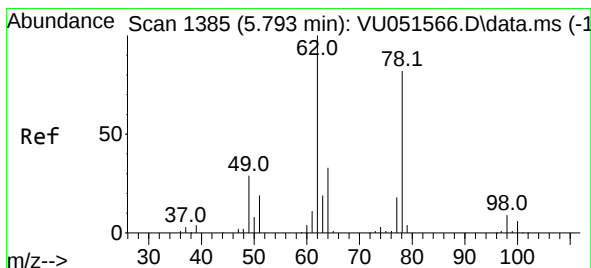
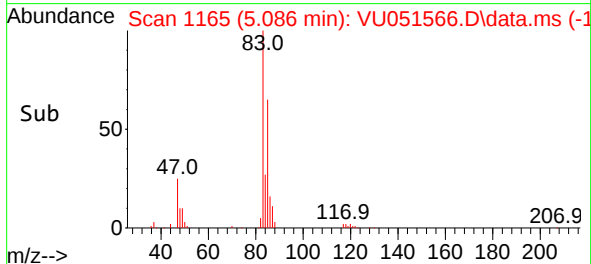
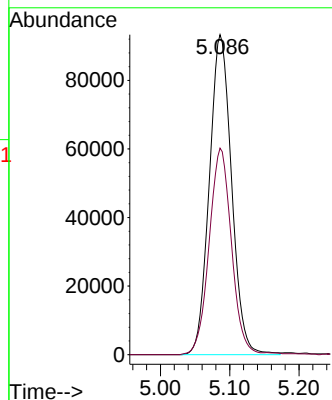
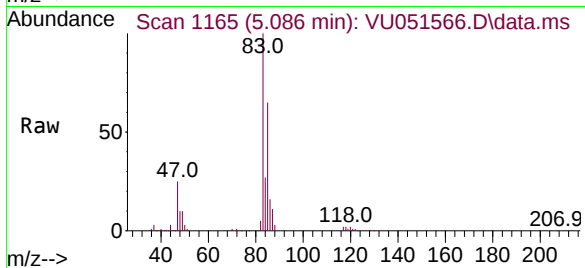
VSTD005064

Tgt Ion: 83 Resp: 208020

Ion Ratio Lower Upper

83 100

85 64.6 45.2 84.0



#27

1,2-Dichloroethane

Concen: 5.335 ug/L

RT: 5.793 min Scan# 1385

Delta R.T. 0.000 min

Lab File: VU051566.D

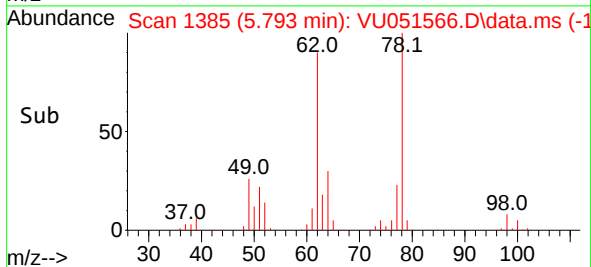
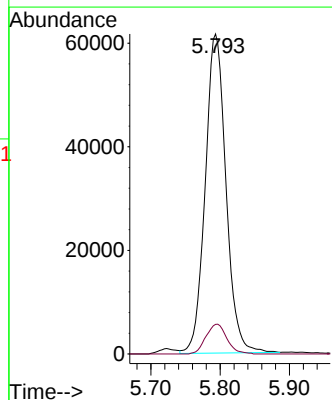
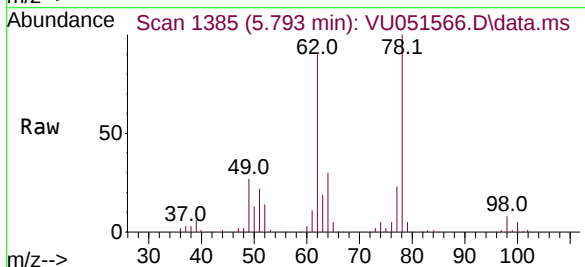
Acq: 28 Oct 2022 14:01

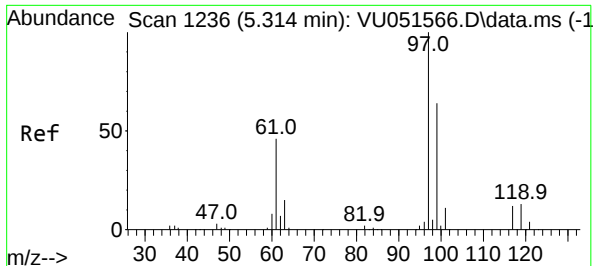
Tgt Ion: 62 Resp: 128349

Ion Ratio Lower Upper

62 100

98 9.2 7.4 11.0





#29

1,1,1-Trichloroethane

Concen: 5.142 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005064

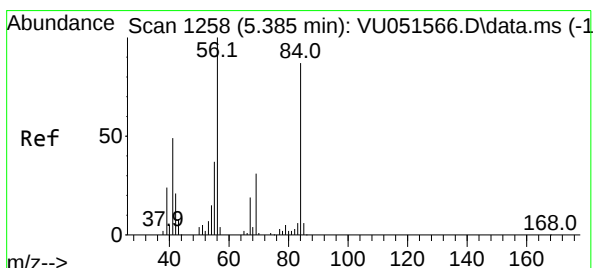
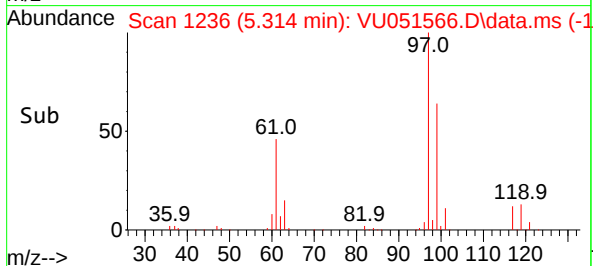
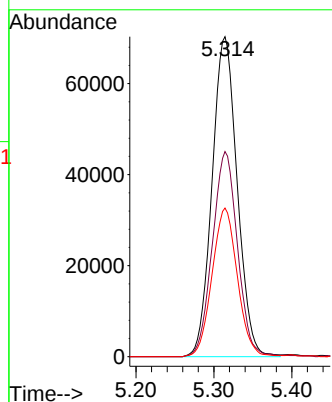
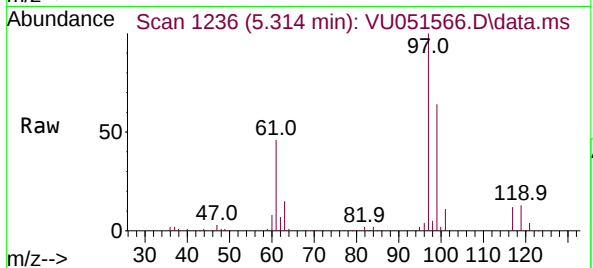
Tgt Ion: 97 Resp: 157697

Ion Ratio Lower Upper

97 100

99 63.9 51.1 76.7

61 46.7 37.4 56.0



#30

Cyclohexane

Concen: 4.852 ug/L

RT: 5.385 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

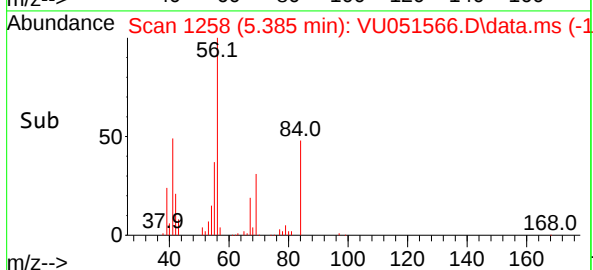
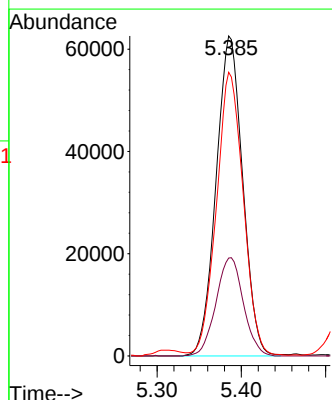
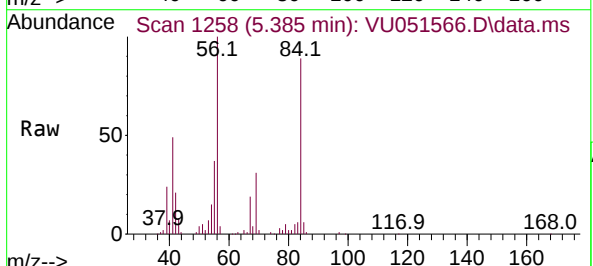
Tgt Ion: 56 Resp: 137025

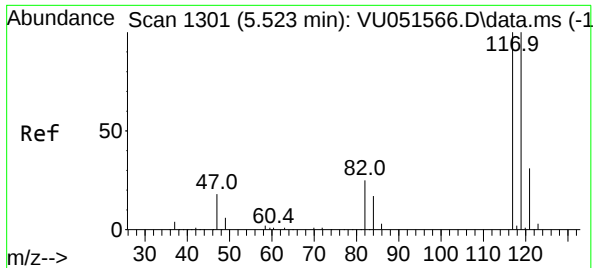
Ion Ratio Lower Upper

56 100

69 31.7 25.4 38.0

84 89.2 71.4 107.0

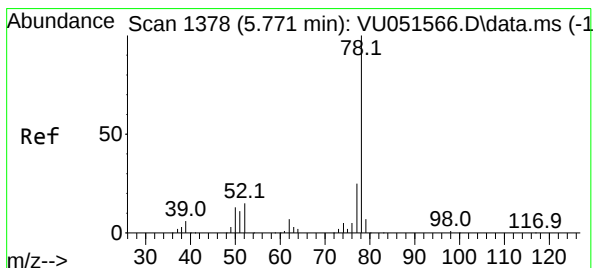
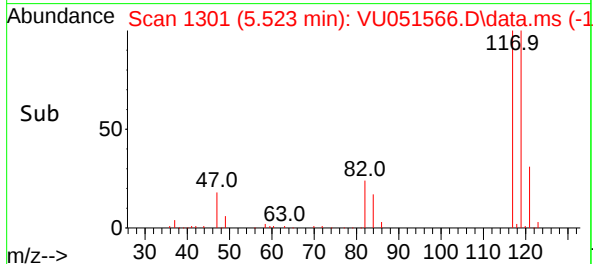
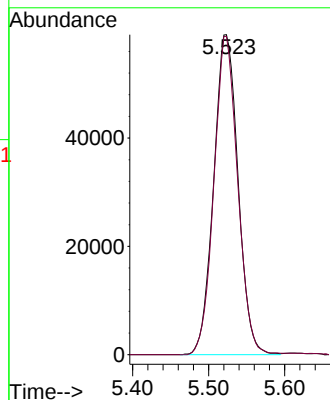
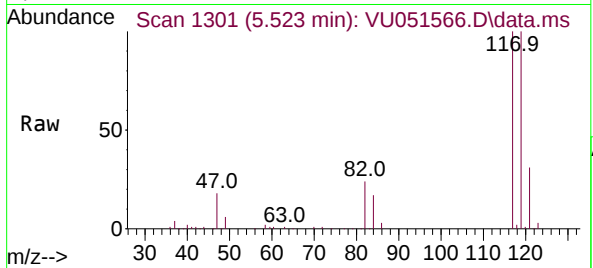




#31  
Carbon tetrachloride  
Concen: 5.012 ug/L  
RT: 5.523 min Scan# 1117  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

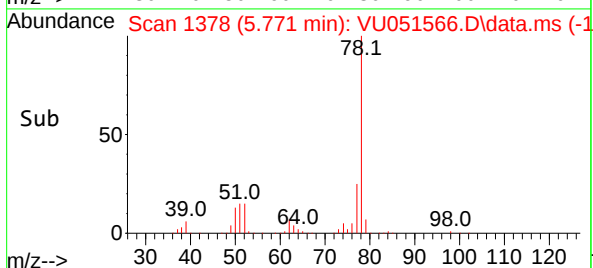
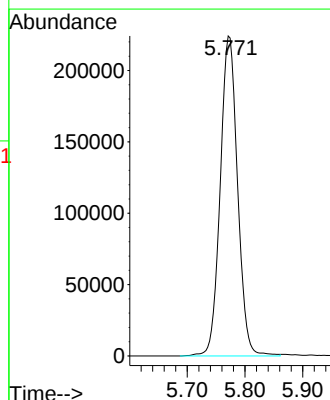
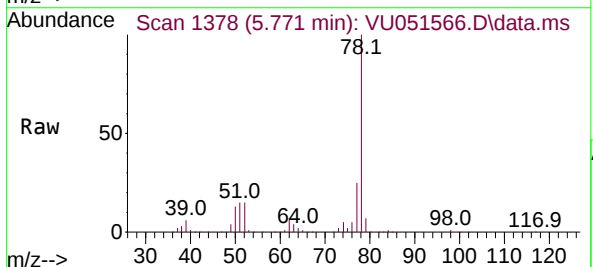
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005064

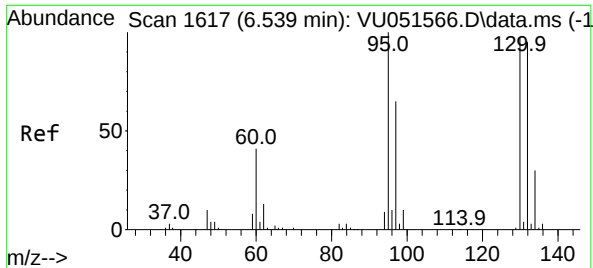
Tgt Ion:117 Resp: 131458  
Ion Ratio Lower Upper  
117 100  
119 96.9 77.5 116.3



#33  
Benzene  
Concen: 5.256 ug/L  
RT: 5.771 min Scan# 1378  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Tgt Ion: 78 Resp: 468531

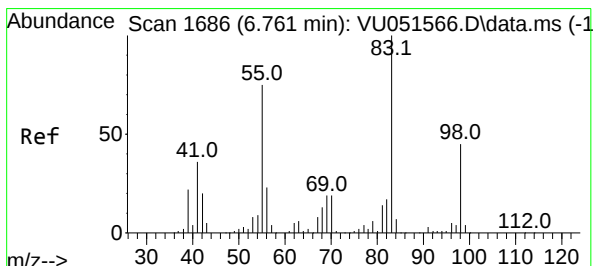
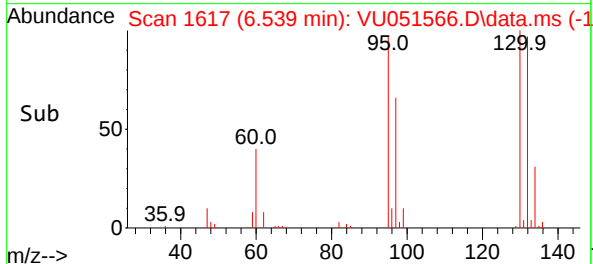
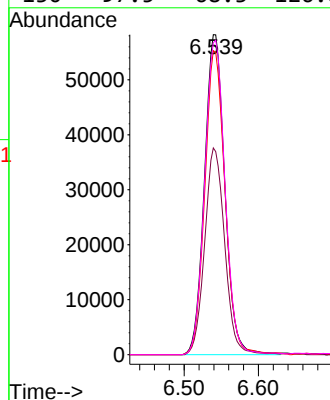
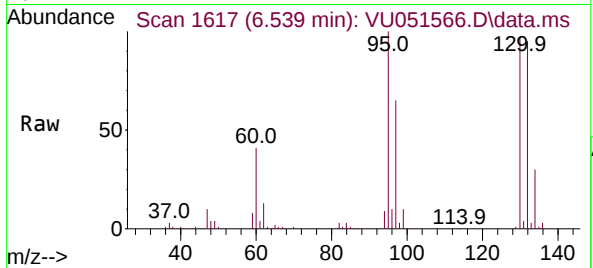




#34  
Trichloroethene  
Concen: 5.147 ug/L  
RT: 6.539 min Scan# 1617  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

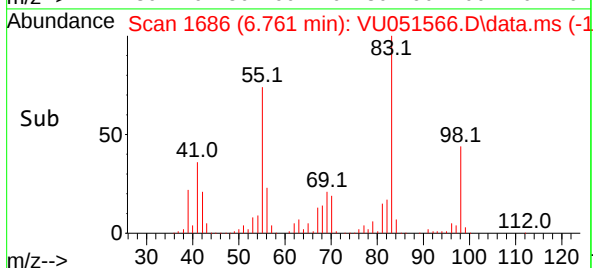
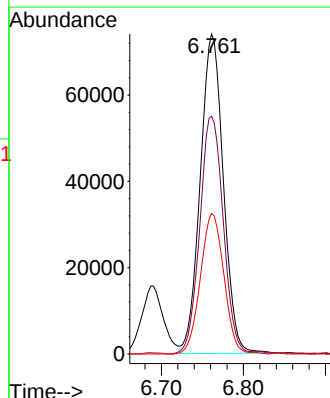
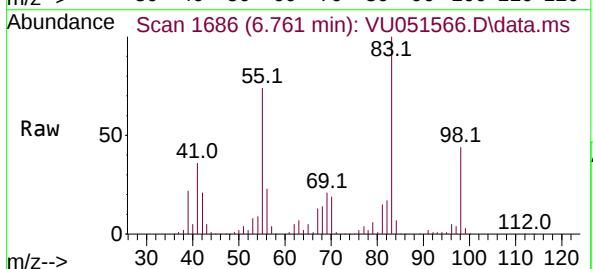
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005064

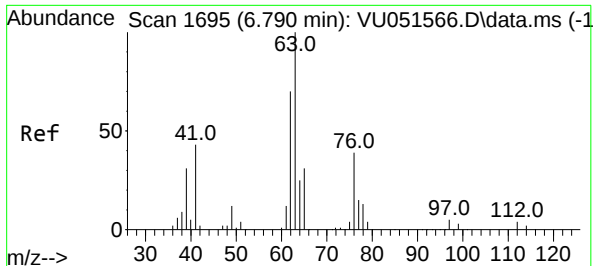
Tgt Ion: 95 Resp: 110711  
Ion Ratio Lower Upper  
95 100  
97 64.6 45.2 84.0  
132 95.0 66.5 123.5  
130 97.5 68.3 126.8



#35  
Methylcyclohexane  
Concen: 4.859 ug/L  
RT: 6.761 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Tgt Ion: 83 Resp: 144518  
Ion Ratio Lower Upper  
83 100  
55 75.7 60.6 90.8  
98 44.7 35.8 53.6





#37

1,2-Dichloropropane

Concen: 5.246 ug/L

RT: 6.790 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

Instrument :

MSVOA\_U

ClientSampleId :

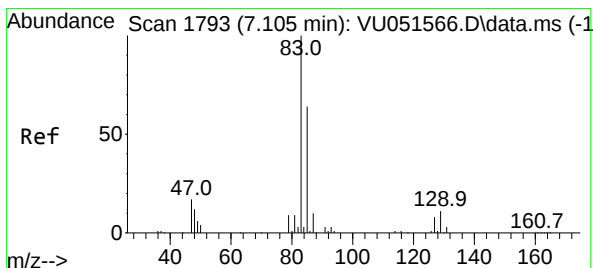
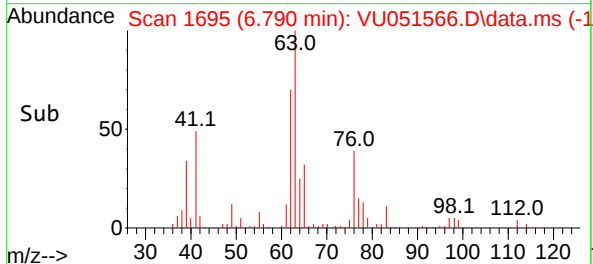
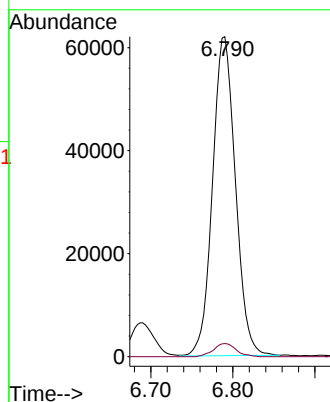
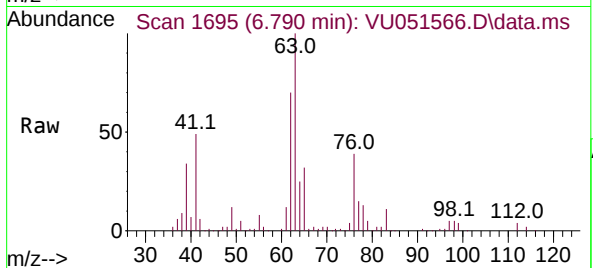
VSTD005064

Tgt Ion: 63 Resp: 120275

Ion Ratio Lower Upper

63 100

112 4.1 3.3 4.9



#38

Bromodichloromethane

Concen: 5.162 ug/L

RT: 7.105 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

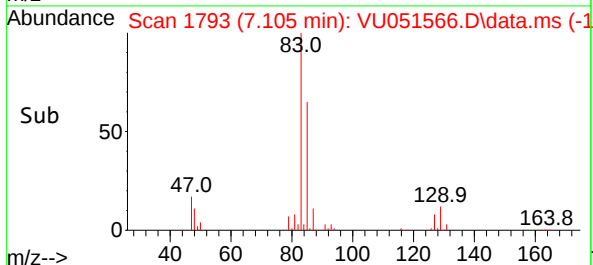
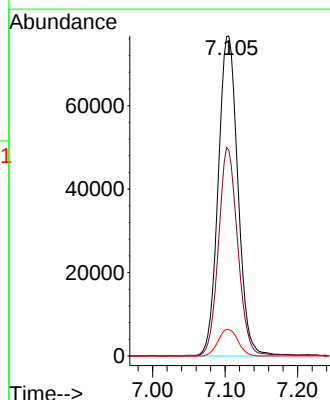
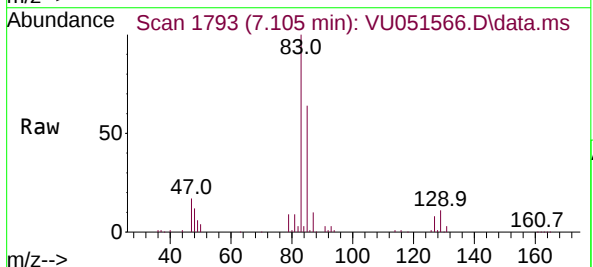
Tgt Ion: 83 Resp: 144547

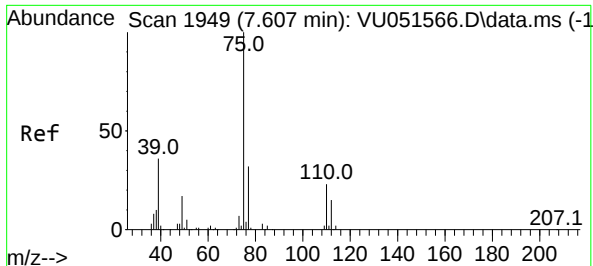
Ion Ratio Lower Upper

83 100

85 64.4 45.1 83.7

127 8.2 6.6 9.8





#39

cis-1,3-Dichloropropene

Concen: 5.130 ug/L

RT: 7.607 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

Instrument :

MSVOA\_U

ClientSampleId :

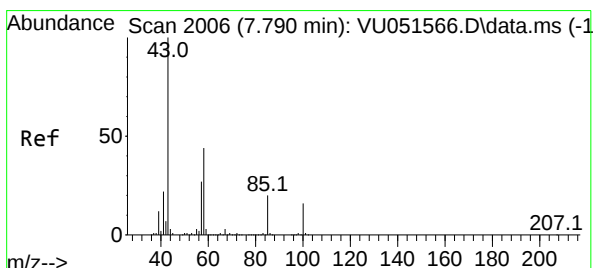
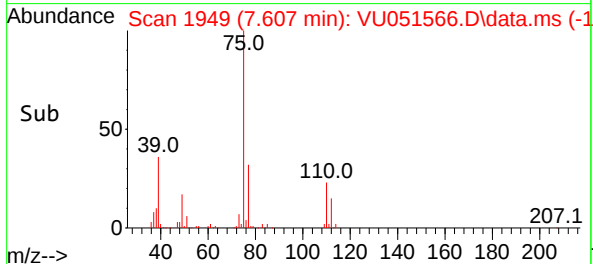
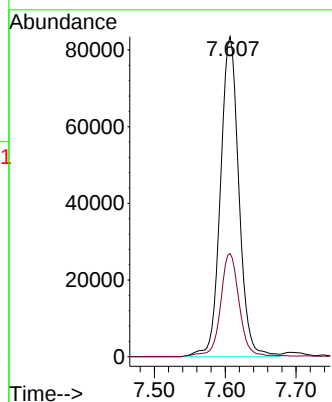
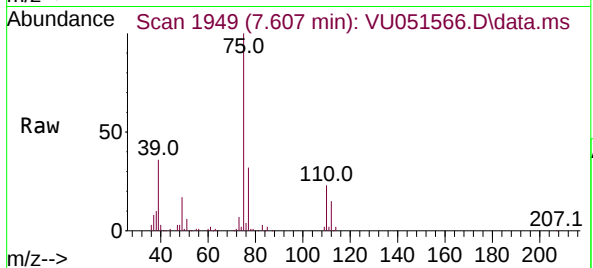
VSTD005064

Tgt Ion: 75 Resp: 150905

Ion Ratio Lower Upper

75 100

77 32.2 22.5 41.9



#40

4-Methyl-2-pentanone

Concen: 54.928 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

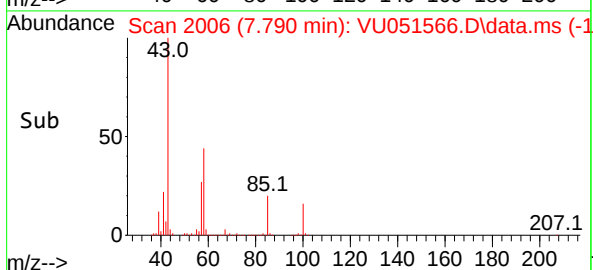
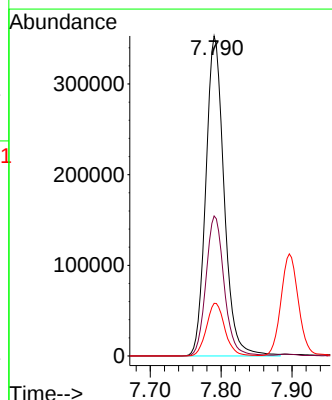
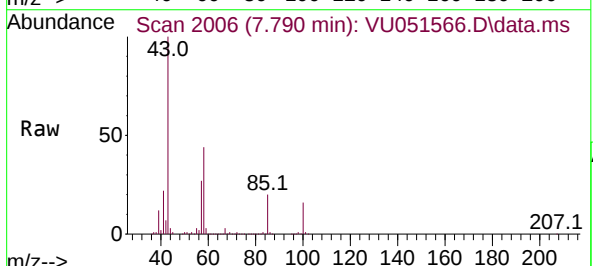
Tgt Ion: 43 Resp: 631658

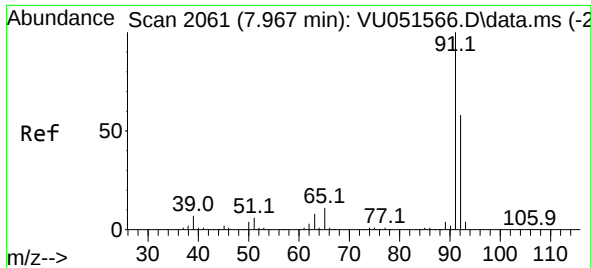
Ion Ratio Lower Upper

43 100

58 43.8 35.0 52.6

100 16.7 13.4 20.0





#42

Toluene

Concen: 5.343 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

Instrument :

MSVOA\_U

ClientSampleId :

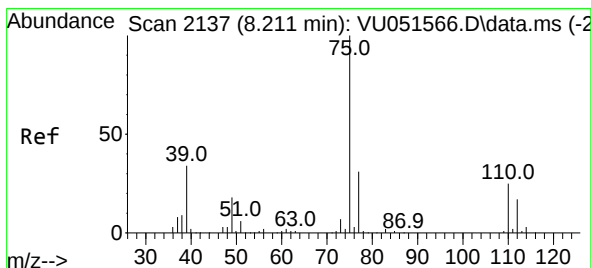
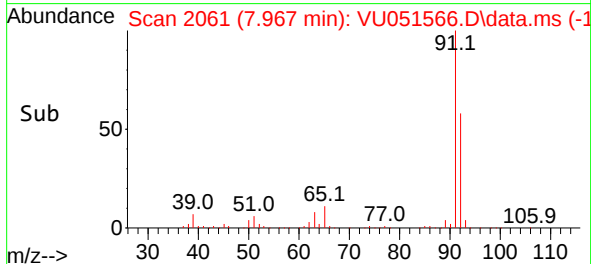
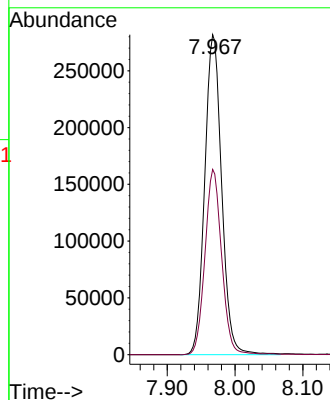
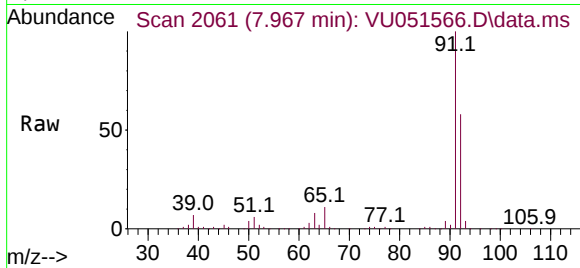
VSTD005064

Tgt Ion: 91 Resp: 489106

Ion Ratio Lower Upper

91 100

92 57.9 40.5 75.3



#44

trans-1,3-Dichloropropene

Concen: 5.325 ug/L

RT: 8.211 min Scan# 2137

Delta R.T. 0.000 min

Lab File: VU051566.D

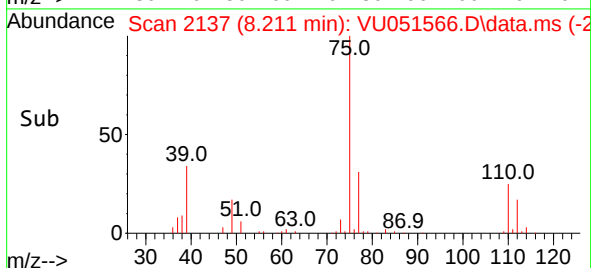
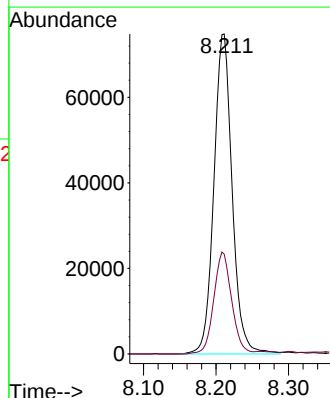
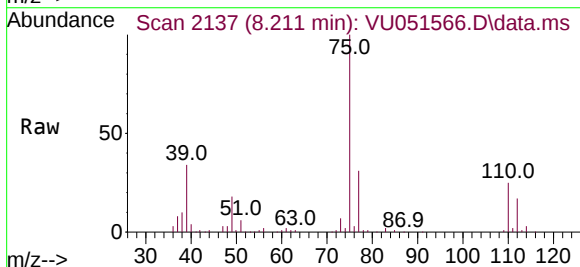
Acq: 28 Oct 2022 14:01

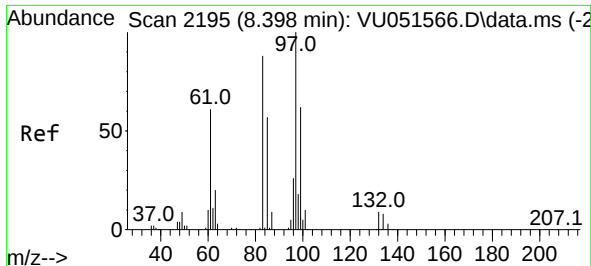
Tgt Ion: 75 Resp: 130883

Ion Ratio Lower Upper

75 100

77 31.2 21.8 40.6

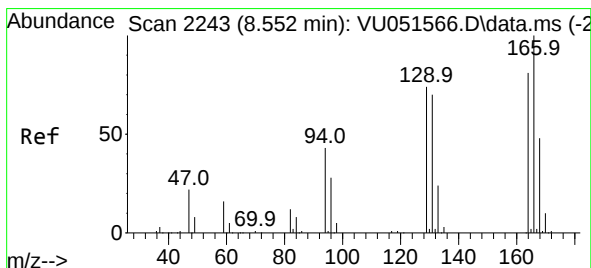
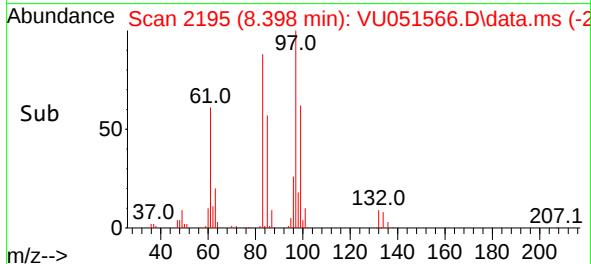
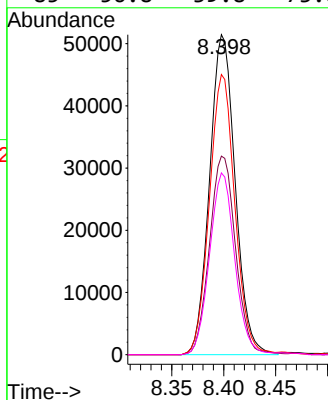
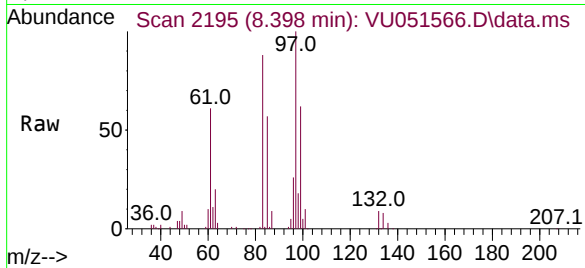




#45  
1,1,2-Trichloroethane  
Concen: 5.253 ug/L  
RT: 8.398 min Scan# 2195  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

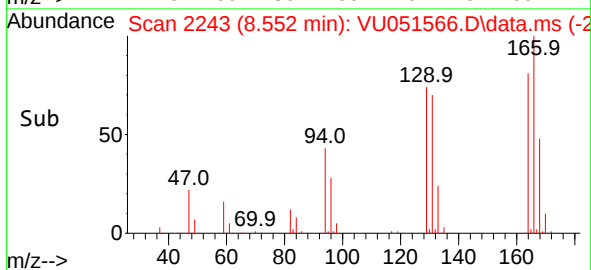
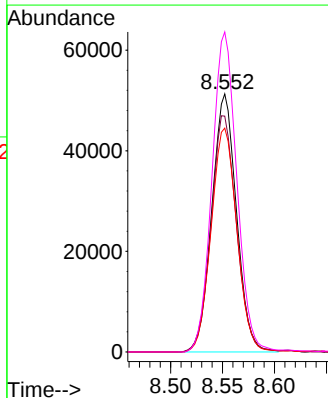
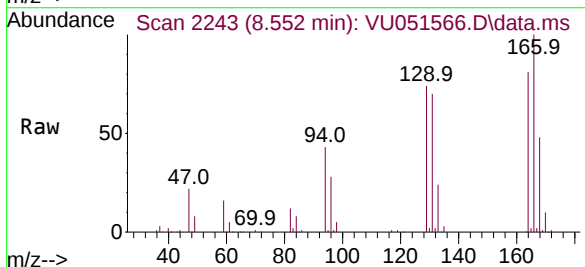
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005064

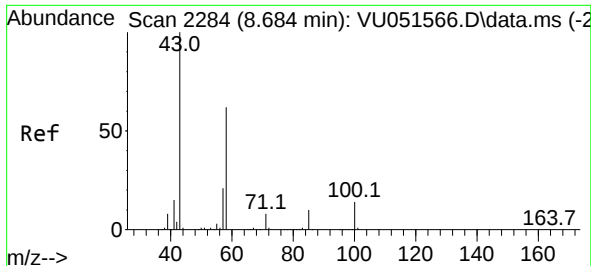
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 88246 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.0  | 43.4  | 80.6  |
| 83       | 87.6  | 61.3  | 113.9 |
| 85       | 56.8  | 39.8  | 73.8  |



#47  
Tetrachloroethene  
Concen: 5.143 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 84725 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 91.4  | 64.0  | 118.8 |
| 131      | 86.7  | 60.7  | 112.7 |
| 166      | 124.0 | 86.8  | 161.2 |

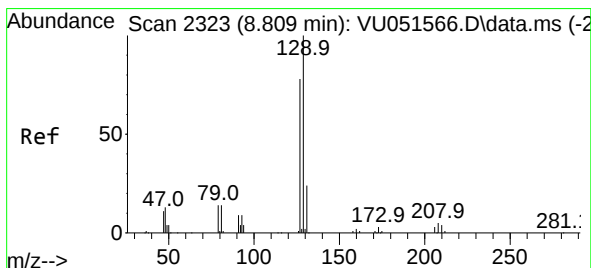
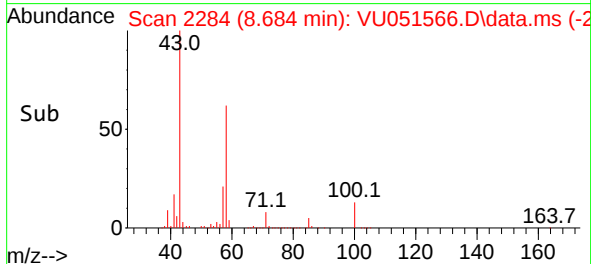
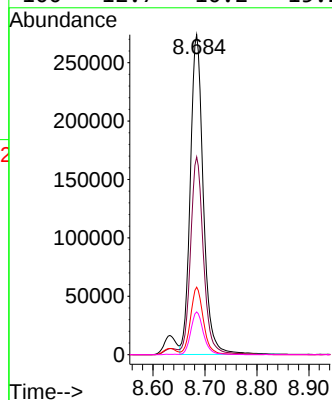
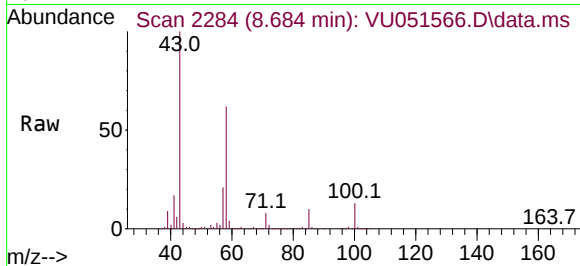




#48  
2-Hexanone  
Concen: 56.120 ug/L  
RT: 8.684 min Scan# 2284  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

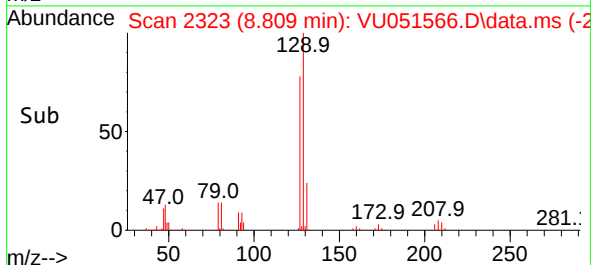
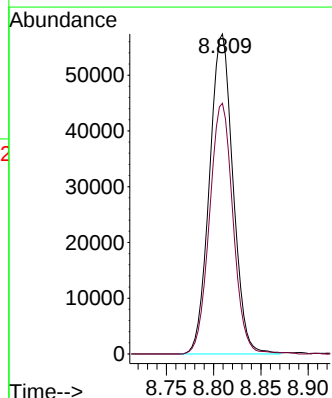
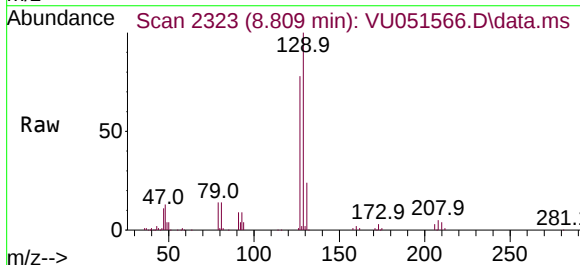
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005064

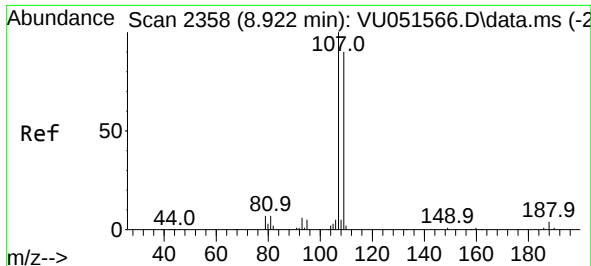
Tgt Ion: 43 Resp: 477702  
Ion Ratio Lower Upper  
43 100  
58 60.2 48.2 72.2  
57 20.8 16.6 25.0  
100 12.7 10.2 15.2



#49  
Dibromochloromethane  
Concen: 5.172 ug/L  
RT: 8.809 min Scan# 2323  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Tgt Ion: 129 Resp: 99273  
Ion Ratio Lower Upper  
129 100  
127 78.3 54.8 101.8





#50

1,2-Dibromoethane

Concen: 5.353 ug/L

RT: 8.922 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005064

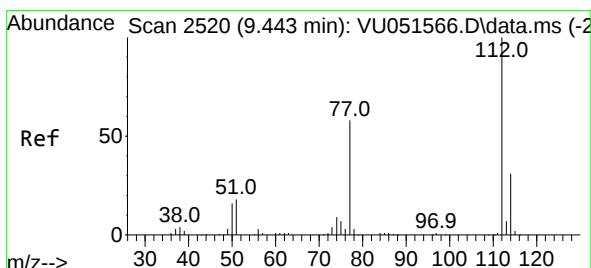
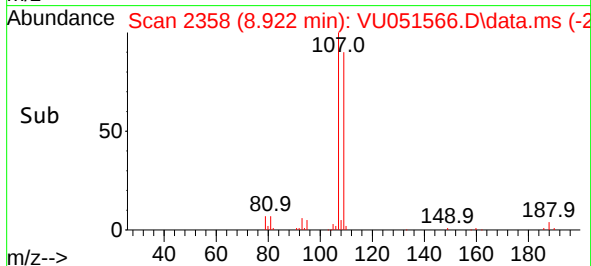
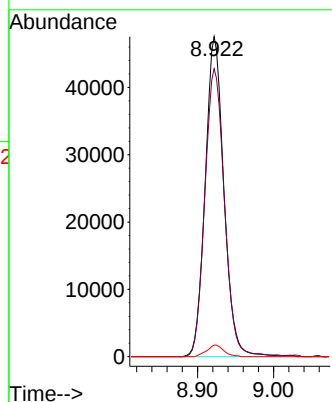
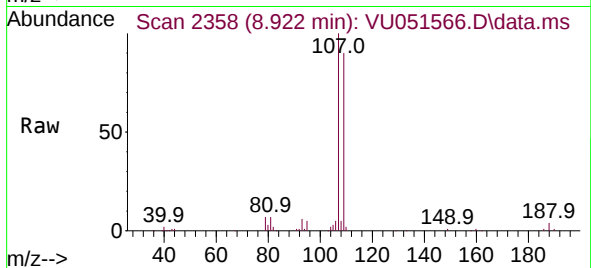
Tgt Ion:107 Resp: 81132

Ion Ratio Lower Upper

107 100

109 90.0 63.0 117.0

188 3.7 3.0 4.4



#51

Chlorobenzene

Concen: 5.194 ug/L

RT: 9.443 min Scan# 2520

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

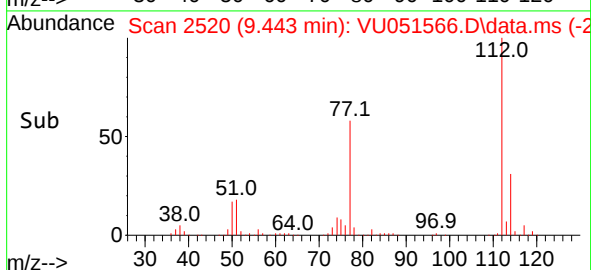
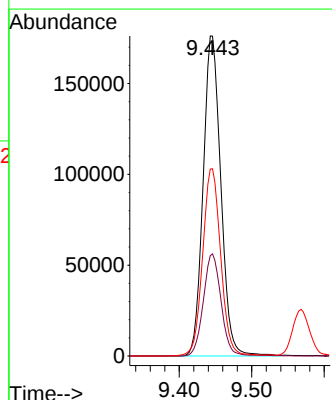
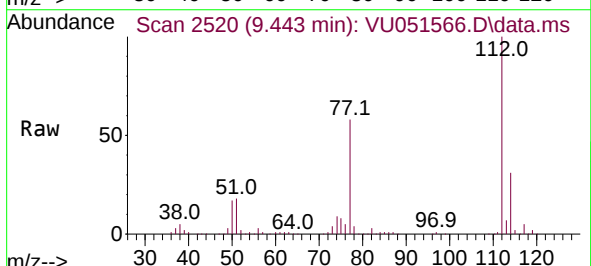
Tgt Ion:112 Resp: 299279

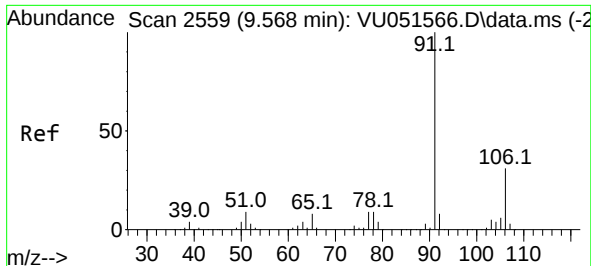
Ion Ratio Lower Upper

112 100

114 31.4 22.0 40.8

77 58.4 46.7 70.1

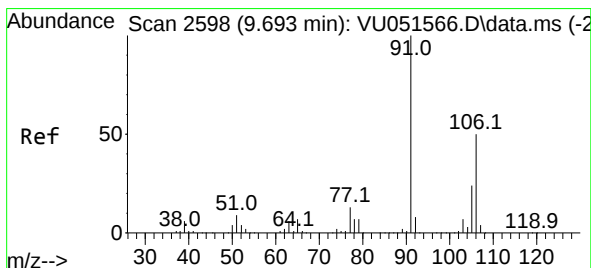
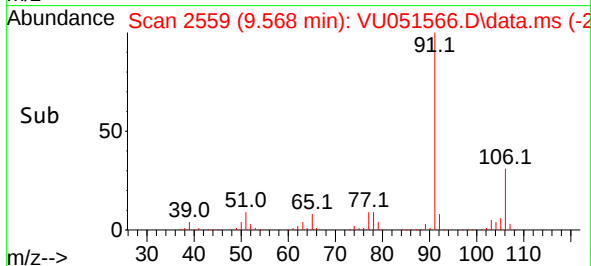
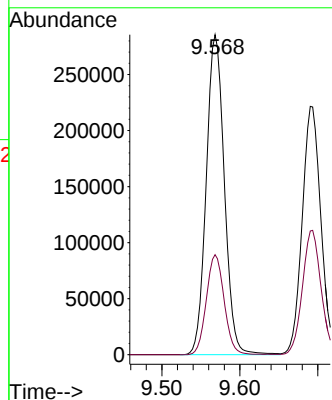
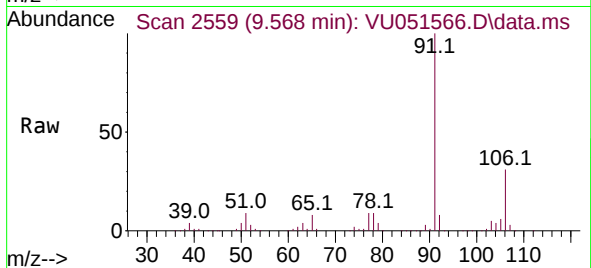




#52  
Ethylbenzene  
Concen: 5.215 ug/L  
RT: 9.568 min Scan# 2559  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

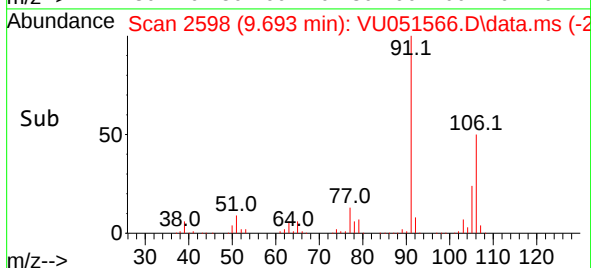
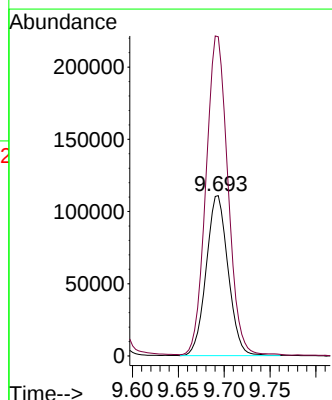
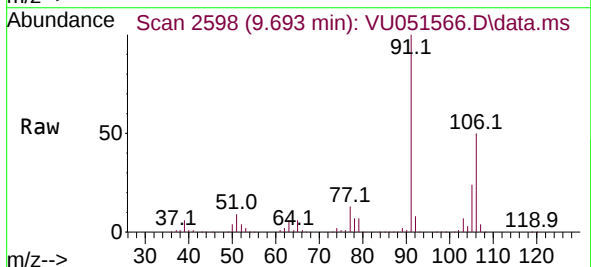
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005064

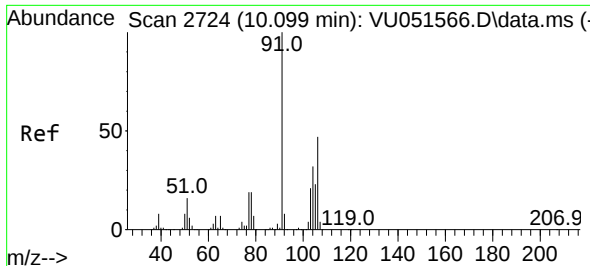
Tgt Ion: 91 Resp: 460639  
Ion Ratio Lower Upper  
91 100  
106 31.2 21.8 40.6



#53  
m,p-Xylene  
Concen: 5.355 ug/L  
RT: 9.693 min Scan# 2598  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Tgt Ion: 106 Resp: 183734  
Ion Ratio Lower Upper  
106 100  
91 199.2 139.4 259.0

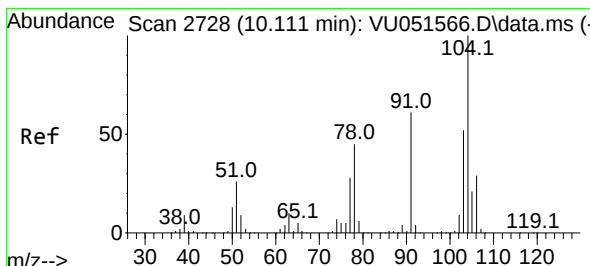
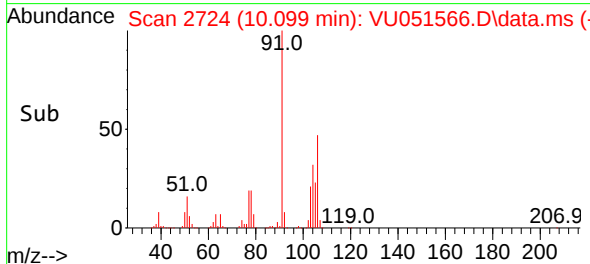
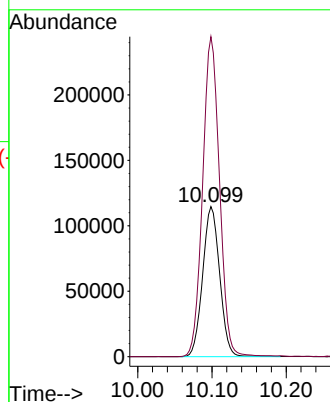
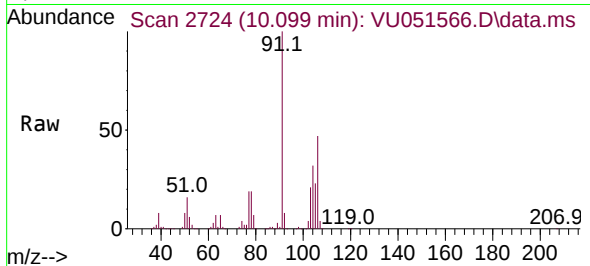




#54  
o-Xylene  
Concen: 5.439 ug/L  
RT: 10.099 min Scan# 2724  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

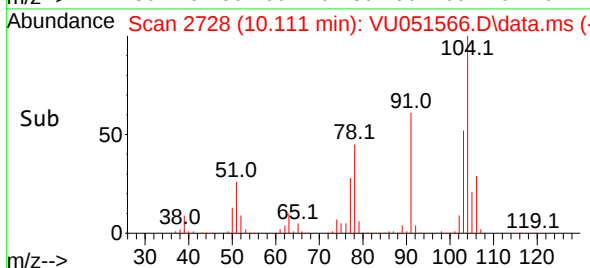
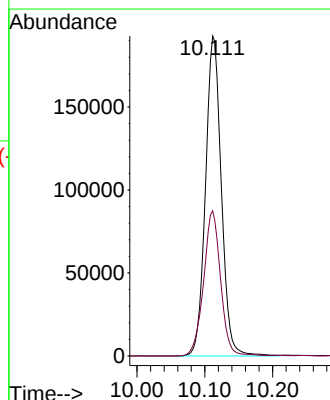
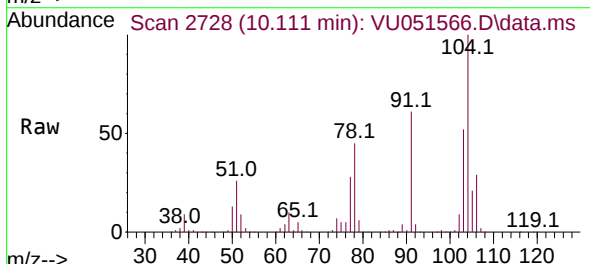
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005064

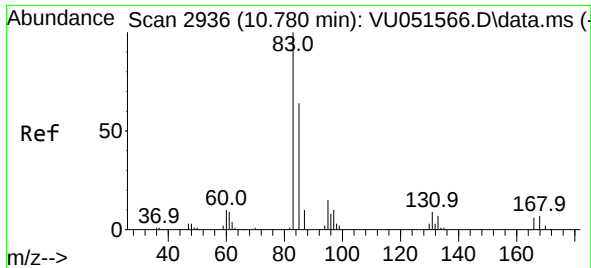
Tgt Ion:106 Resp: 182361  
Ion Ratio Lower Upper  
106 100  
91 213.2 149.2 277.2



#55  
Styrene  
Concen: 5.587 ug/L  
RT: 10.111 min Scan# 2728  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Tgt Ion:104 Resp: 313194  
Ion Ratio Lower Upper  
104 100  
78 45.4 31.8 59.0

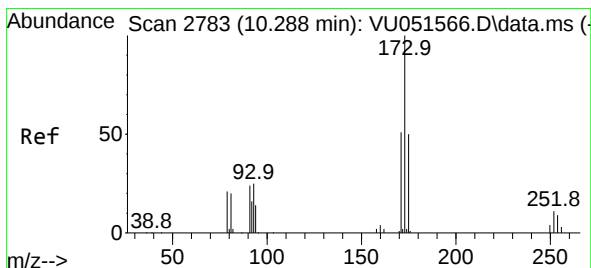
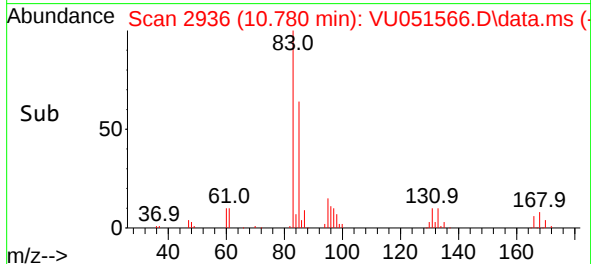
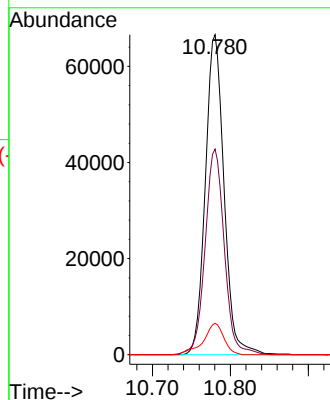
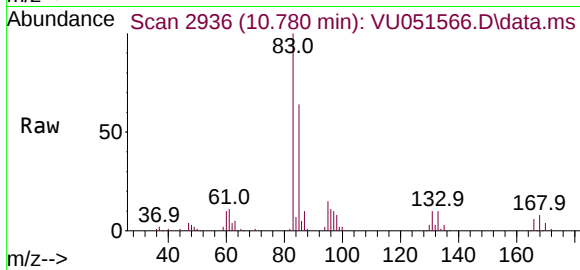




#57  
1,1,2,2-Tetrachloroethane  
Concen: 5.319 ug/L  
RT: 10.780 min Scan# 2936  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

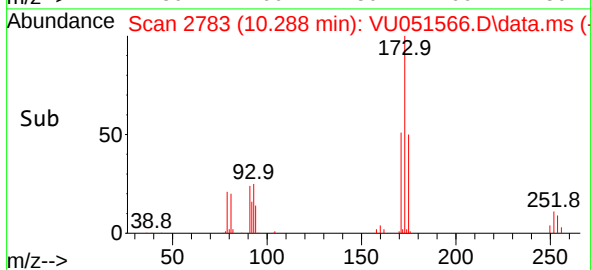
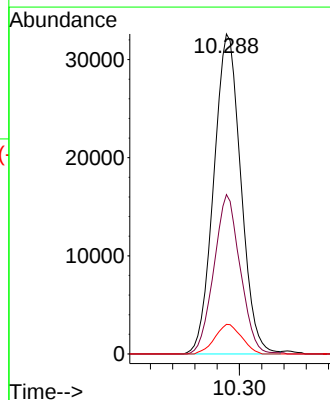
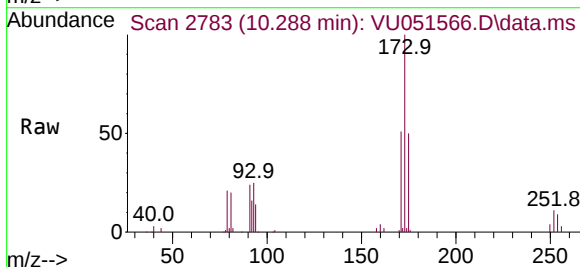
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005064

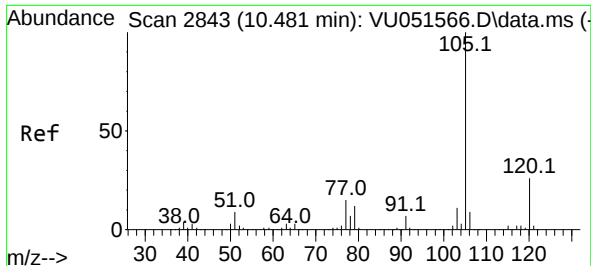
Tgt Ion: 83 Resp: 110797  
Ion Ratio Lower Upper  
83 100  
85 64.2 44.9 83.5  
131 9.8 7.8 11.8



#59  
Bromoform  
Concen: 5.010 ug/L  
RT: 10.288 min Scan# 2783  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Tgt Ion:173 Resp: 55028  
Ion Ratio Lower Upper  
173 100  
175 48.4 38.7 58.1  
254 9.1 7.3 10.9

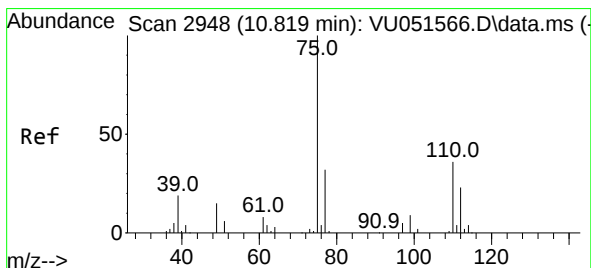
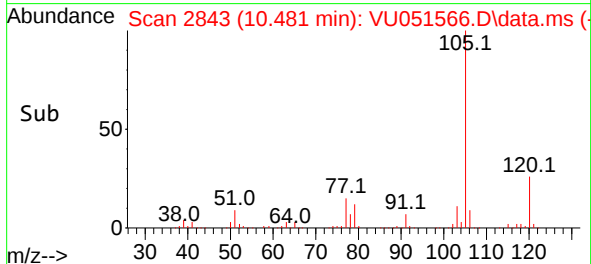
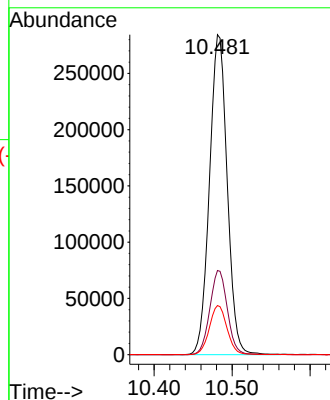
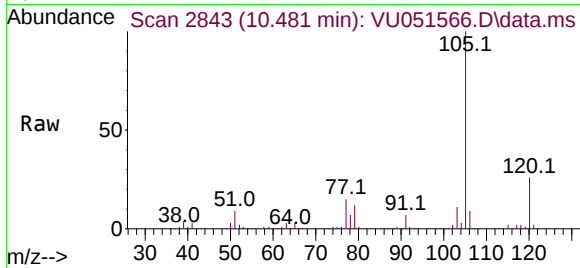




#60  
Isopropylbenzene  
Concen: 5.174 ug/L  
RT: 10.481 min Scan# 2843  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

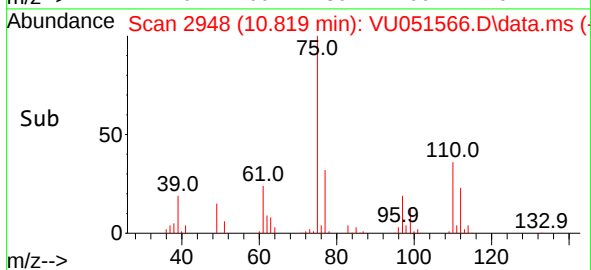
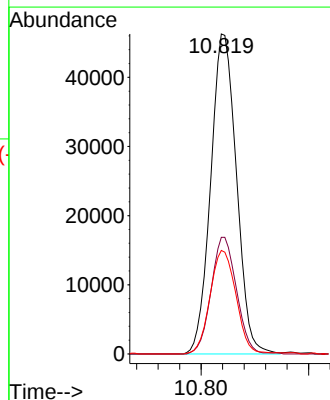
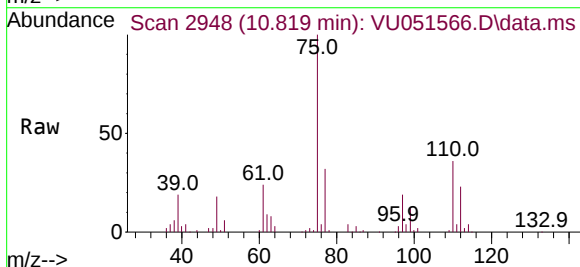
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005064

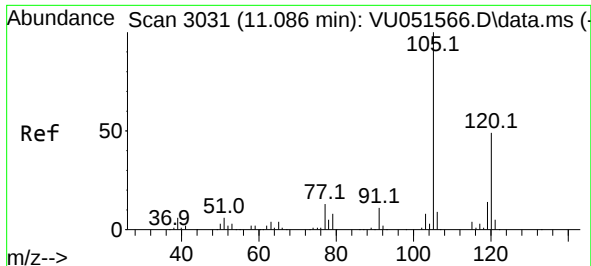
Tgt Ion:105 Resp: 449011  
Ion Ratio Lower Upper  
105 100  
120 26.1 20.9 31.3  
77 15.4 12.3 18.5



#61  
1,2,3-Trichloropropane  
Concen: 5.008 ug/L  
RT: 10.819 min Scan# 2948  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Tgt Ion: 75 Resp: 76988  
Ion Ratio Lower Upper  
75 100  
110 35.9 28.7 43.1  
77 32.6 26.1 39.1

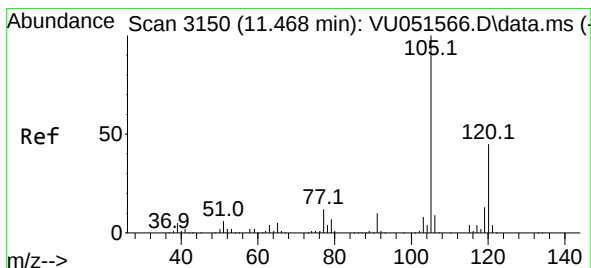
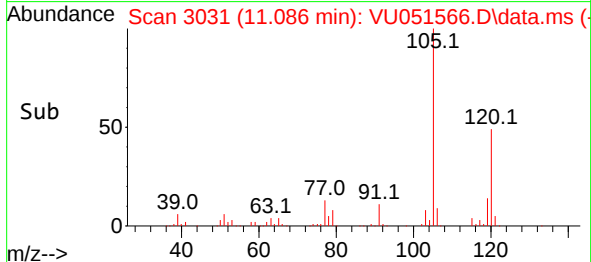
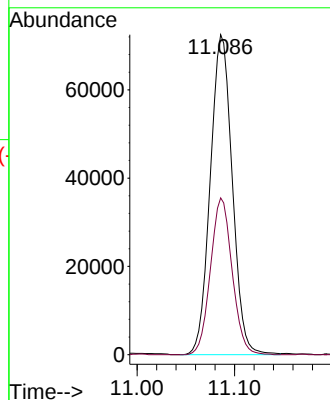
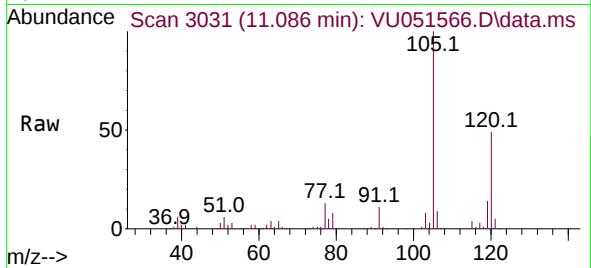




#62  
 1,3,5-Trimethylbenzene  
 Concen: 4.868 ug/L  
 RT: 11.086 min Scan# 3031  
 Delta R.T. 0.000 min  
 Lab File: VU051566.D  
 Acq: 28 Oct 2022 14:01

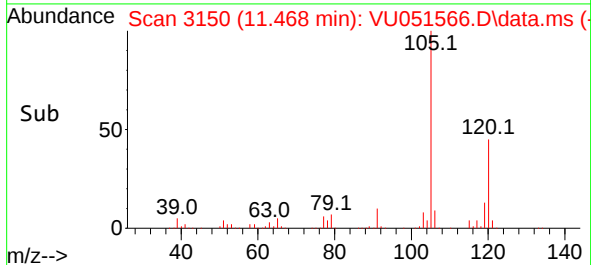
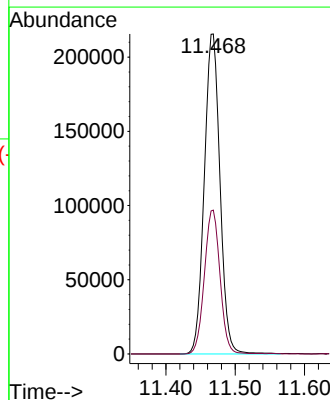
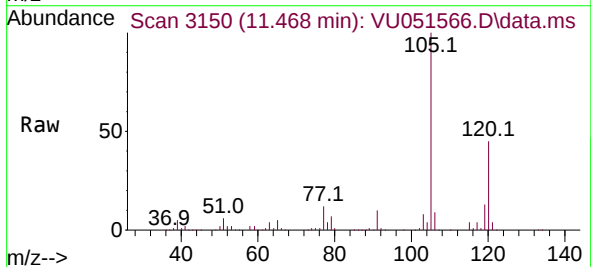
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005064

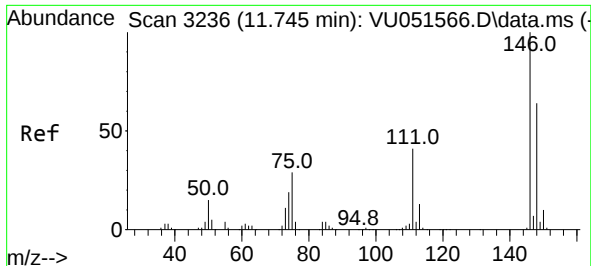
Tgt Ion:105 Resp: 113727  
 Ion Ratio Lower Upper  
 105 100  
 120 48.2 38.6 57.8



#63  
 1,2,4-Trimethylbenzene  
 Concen: 5.028 ug/L  
 RT: 11.468 min Scan# 3150  
 Delta R.T. 0.000 min  
 Lab File: VU051566.D  
 Acq: 28 Oct 2022 14:01

Tgt Ion:105 Resp: 338672  
 Ion Ratio Lower Upper  
 105 100  
 120 44.7 35.8 53.6

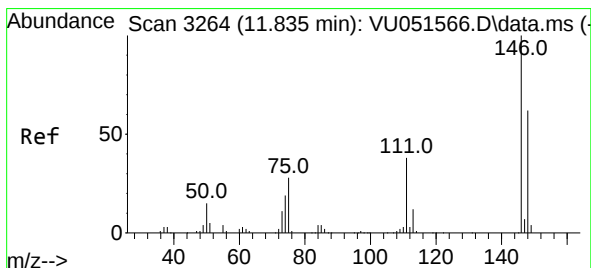
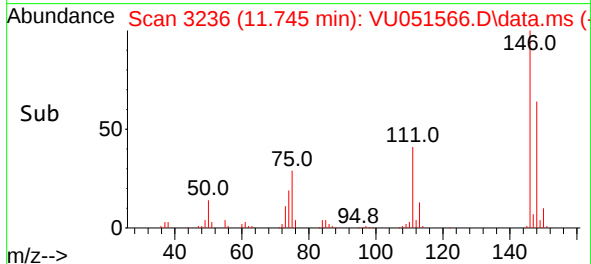
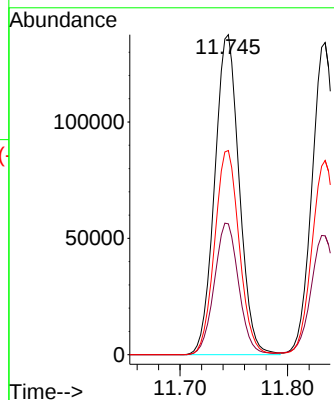
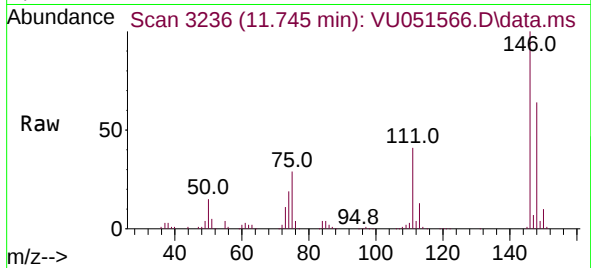




#64  
1,3-Dichlorobenzene  
Concen: 5.043 ug/L  
RT: 11.745 min Scan# 3236  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

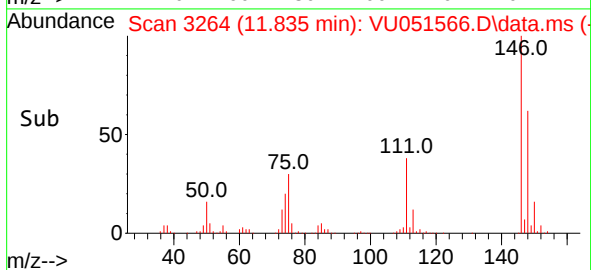
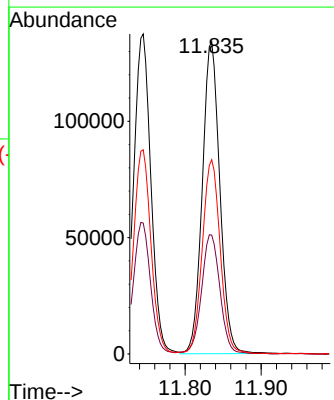
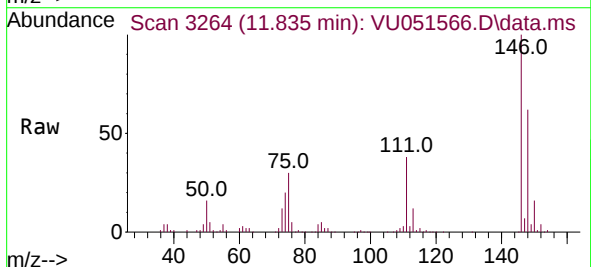
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005064

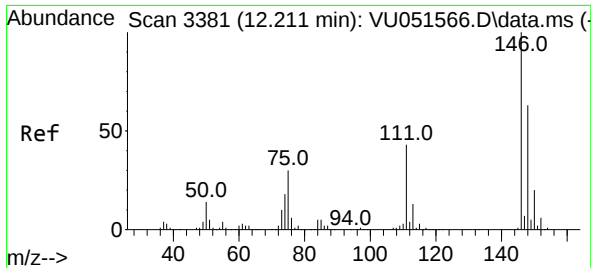
Tgt Ion:146 Resp: 217847  
Ion Ratio Lower Upper  
146 100  
111 40.9 28.6 53.2  
148 63.8 44.7 82.9



#65  
1,4-Dichlorobenzene  
Concen: 4.960 ug/L  
RT: 11.835 min Scan# 3264  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Tgt Ion:146 Resp: 214862  
Ion Ratio Lower Upper  
146 100  
111 38.1 26.7 49.5  
148 62.2 43.5 80.9





#67

1,2-Dichlorobenzene

Concen: 4.991 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005064

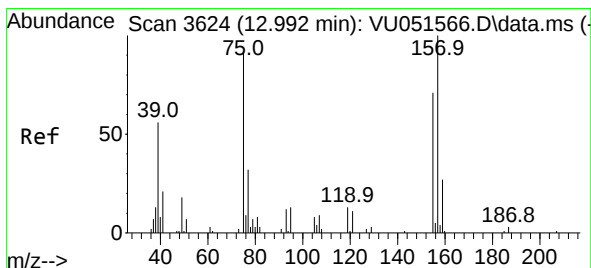
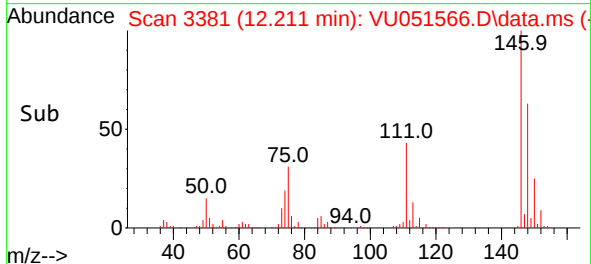
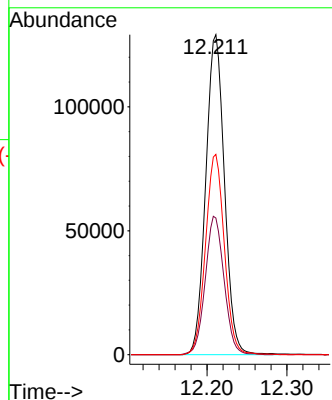
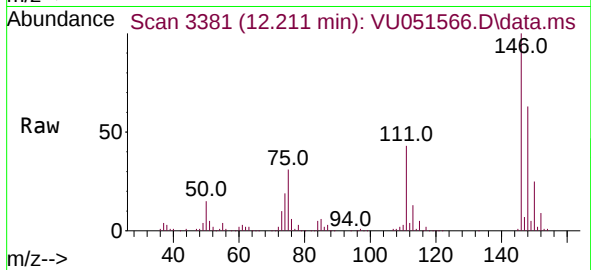
Tgt Ion:146 Resp: 210035

Ion Ratio Lower Upper

146 100

111 42.7 34.2 51.2

148 62.6 50.1 75.1



#68

1,2-Dibromo-3-chloropropane

Concen: 4.808 ug/L

RT: 12.992 min Scan# 3624

Delta R.T. 0.000 min

Lab File: VU051566.D

Acq: 28 Oct 2022 14:01

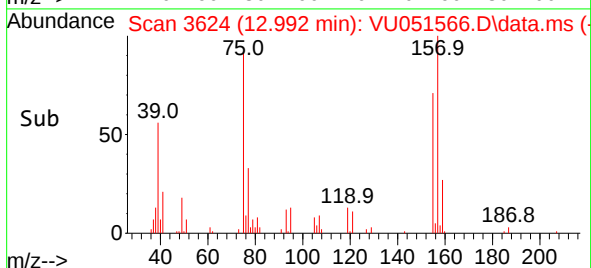
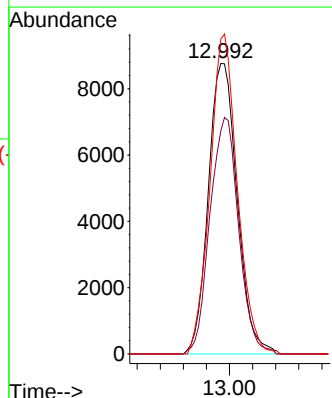
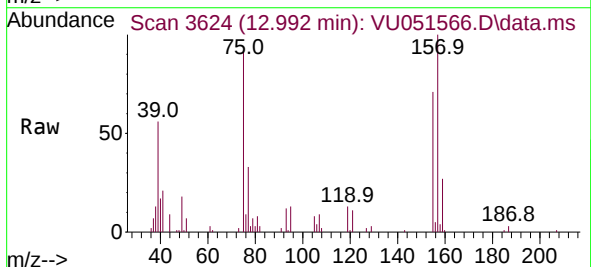
Tgt Ion: 75 Resp: 15218

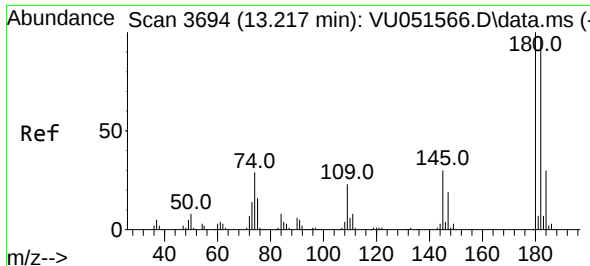
Ion Ratio Lower Upper

75 100

155 76.8 61.4 92.2

157 108.4 86.7 130.1



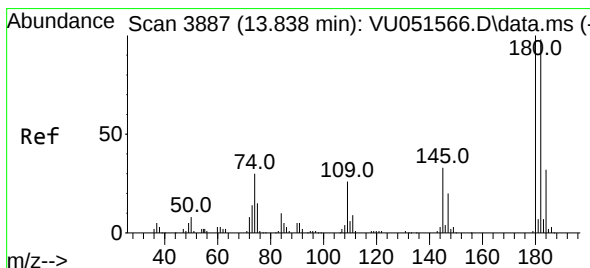
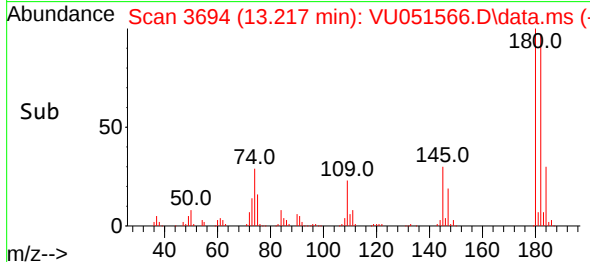
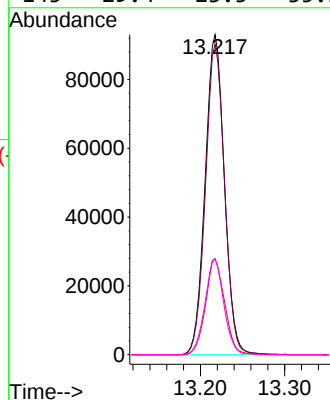
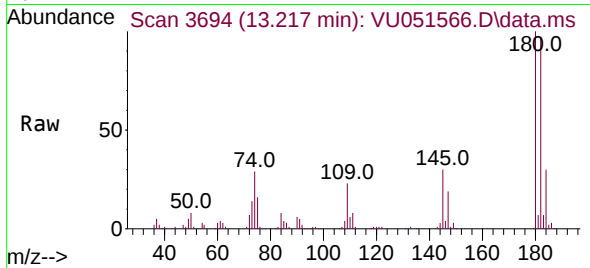


#69  
 1,3,5-Trichlorobenzene  
 Concen: 4.806 ug/L  
 RT: 13.217 min Scan# 3694  
 Delta R.T. 0.000 min  
 Lab File: VU051566.D  
 Acq: 28 Oct 2022 14:01

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005064

Tgt Ion:180 Resp: 147978

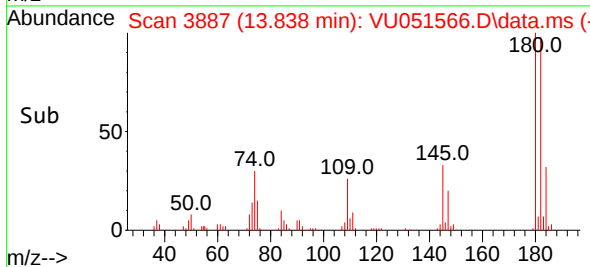
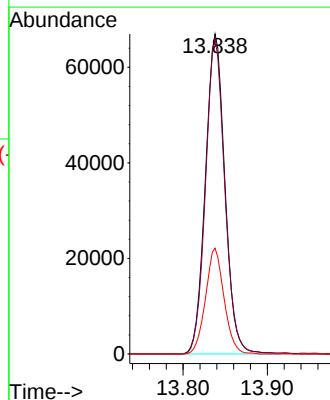
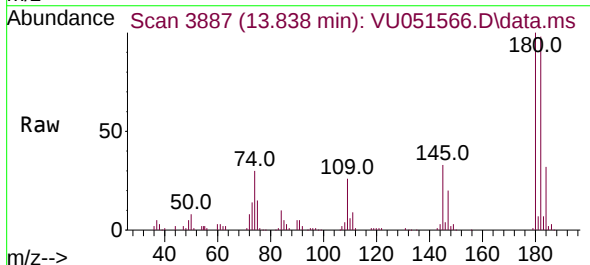
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 96.3  | 77.0  | 115.6 |
| 184 | 29.6  | 23.7  | 35.5  |
| 145 | 29.4  | 23.5  | 35.3  |

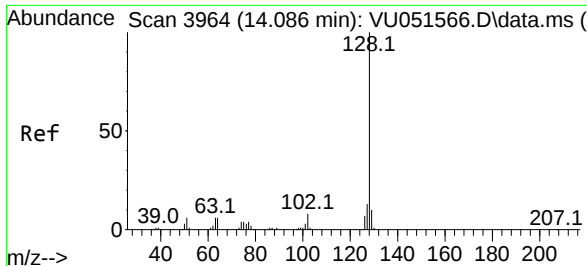


#70  
 1,2,4-trichlorobenzene  
 Concen: 4.569 ug/L  
 RT: 13.838 min Scan# 3887  
 Delta R.T. 0.000 min  
 Lab File: VU051566.D  
 Acq: 28 Oct 2022 14:01

Tgt Ion:180 Resp: 108019

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 97.2  | 77.8  | 116.6 |
| 145 | 31.3  | 25.0  | 37.6  |

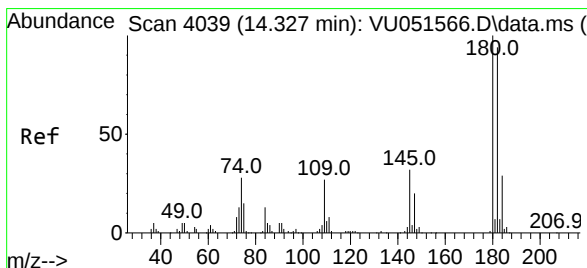
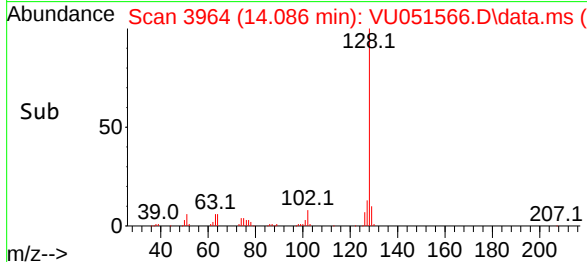
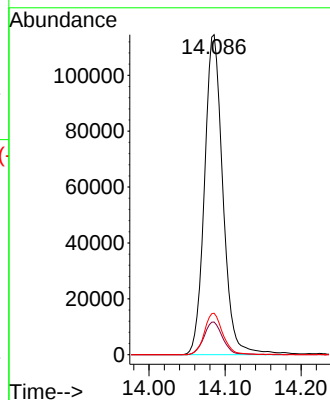
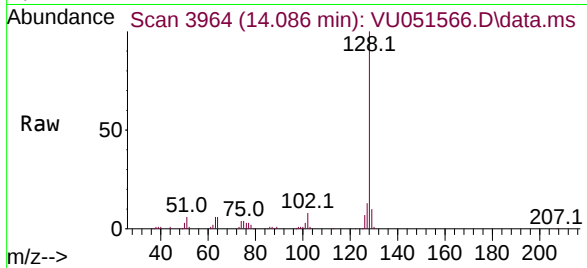




#71  
Naphthalene  
Concen: 4.359 ug/L  
RT: 14.086 min Scan# 3964  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005064

Tgt Ion:128 Resp: 192374  
Ion Ratio Lower Upper  
128 100  
129 10.5 8.4 12.6  
127 12.9 10.3 15.5



#72  
1,2,3-Trichlorobenzene  
Concen: 4.662 ug/L  
RT: 14.327 min Scan# 4039  
Delta R.T. 0.000 min  
Lab File: VU051566.D  
Acq: 28 Oct 2022 14:01

Tgt Ion:180 Resp: 111298  
Ion Ratio Lower Upper  
180 100  
182 95.1 76.1 114.1  
145 32.0 25.6 38.4

