

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU102122\  
 Data File : VU051479.D  
 Acq On : 21 Oct 2022 10:50  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050114

Quant Time: Oct 25 10:06:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM102022WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 20 21:53:25 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247   | 114   | 507592   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 510045   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 270001   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 163357   | 40.559   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 81.120%  |
| 7) Chloroethane-d5            | 1.896   | 69    | 135739   | 40.909   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 81.820%  |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 292594   | 42.676   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 85.360%  |
| 21) 2-Butanone-d5             | 4.617   | 46    | 255895   | 90.131   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 90.130%  |
| 24) Chloroform-d              | 5.060   | 84    | 327882   | 44.322   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 88.640%  |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65    | 201752   | 43.868   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 87.740%  |
| 32) Benzene-d6                | 5.723   | 84    | 648516   | 46.952   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.900%  |
| 36) 1,2-Dichloropropane-d6    | 6.687   | 67    | 208908   | 46.057   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 92.120%  |
| 41) Toluene-d8                | 7.896   | 98    | 609415   | 48.405   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.820%  |
| 43) trans-1,3-Dichloroprop... | 8.176   | 79    | 93114    | 48.211   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 96.420%  |
| 47) 2-Hexanone-d5             | 8.632   | 63    | 184998   | 92.860   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 92.860%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755  | 84    | 358149   | 45.453   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 90.900%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 232595   | 46.018   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 92.040%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.382   | 85    | 197489   | 44.518   | ug/L   | 99       |
| 3) Chloromethane              | 1.523   | 50    | 258569   | 45.603   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.601   | 62    | 250463   | 44.633   | ug/L   | 100      |
| 6) Bromomethane               | 1.832   | 94    | 158714   | 54.416   | ug/L   | 100      |
| 8) Chloroethane               | 1.919   | 64    | 148664   | 44.330   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 2.131   | 101   | 288801   | 44.484   | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575   | 101   | 177012   | 44.608   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.575   | 96    | 169922   | 45.171   | ug/L   | 96       |
| 13) Acetone                   | 2.620   | 43    | 360813   | 111.529  | ug/L   | 98       |
| 14) Carbon disulfide          | 2.790   | 76    | 540762   | 44.135   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.941   | 43    | 227107   | 46.419   | ug/L   | 99       |
| 16) Methylene chloride        | 3.041   | 84    | 230425   | 46.666   | ug/L   | 100      |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 180017   | 46.531   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 3.359   | 73    | 540823   | 48.886   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.864   | 63    | 354535   | 46.461   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.662   | 96    | 202824   | 48.053   | ug/L   | 97       |
| 22) 2-Butanone                | 4.694   | 43    | 401649   | 106.975  | ug/L   | 99       |
| 23) Bromochloromethane        | 4.970   | 128   | 111825   | 47.221   | ug/L   | 98       |
| 25) Chloroform                | 5.086   | 83    | 369837   | 47.011   | ug/L   | 99       |

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 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050114

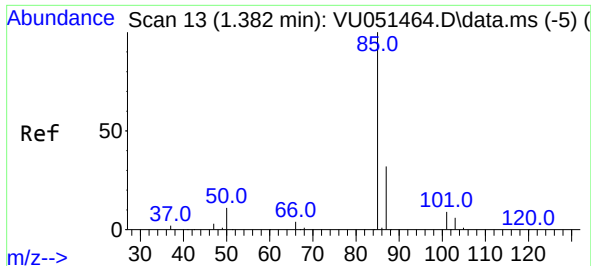
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM102022WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 20 21:53:25 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.790  | 62   | 288538   | 47.235  | ug/L  | 97       |
| 29) Cyclohexane               | 5.385  | 56   | 269206   | 50.237  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 5.314  | 97   | 282222   | 46.651  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 235820   | 46.168  | ug/L  | 100      |
| 33) Benzene                   | 5.771  | 78   | 838170   | 50.269  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 190637   | 47.381  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.761  | 83   | 285382   | 49.582  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 222861   | 48.739  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.105  | 83   | 271485   | 46.640  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.604  | 75   | 298627   | 49.536  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 622697   | 101.920 | ug/L  | 99       |
| 42) Toluene                   | 7.967  | 91   | 886703   | 51.822  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 291610   | 49.705  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 217959   | 47.760  | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.552  | 164  | 144756   | 48.199  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.684  | 43   | 578181   | 110.745 | ug/L  | 100      |
| 49) Dibromochloromethane      | 8.809  | 129  | 220452   | 47.196  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 225679   | 48.258  | ug/L  | 100      |
| 51) Chlorobenzene             | 9.446  | 112  | 545067   | 48.646  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.568  | 91   | 879116   | 50.950  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.693  | 106  | 355318   | 53.425  | ug/L  | 97       |
| 54) o-Xylene                  | 10.099 | 106  | 347535   | 52.680  | ug/L  | 100      |
| 55) Styrene                   | 10.115 | 104  | 627778   | 54.761  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 415793   | 47.748  | ug/L  | 98       |
| 59) Bromoform                 | 10.288 | 173  | 168297   | 44.754  | ug/L  | 100      |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 322081   | 46.031  | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.484 | 105  | 861317   | 50.798  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 754148   | 52.359  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 761299   | 53.678  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 424940   | 49.097  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 427243   | 48.000  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 434065   | 48.145  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 83978    | 44.468  | ug/L  | 95       |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 280514   | 48.314  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 212113   | 47.451  | ug/L  | 99       |
| 71) Naphthalene               | 14.086 | 128  | 699764   | 48.910  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 241310   | 50.289  | ug/L  | 99       |

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM102022WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Oct 20 21:53:25 2022  
Response via : Initial Calibration

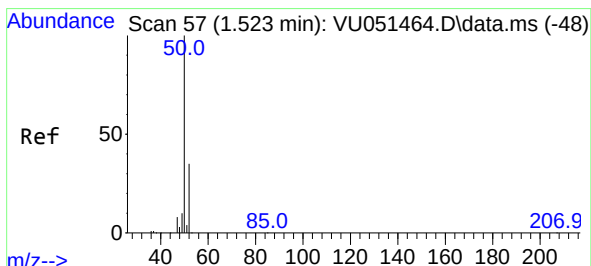
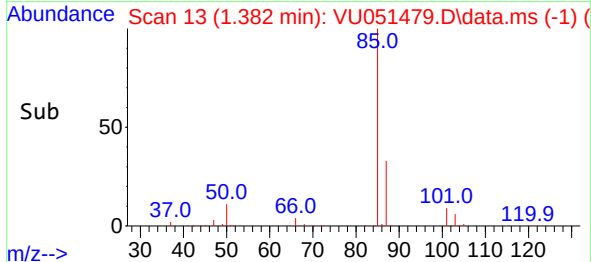
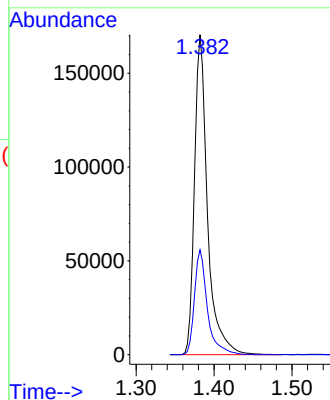
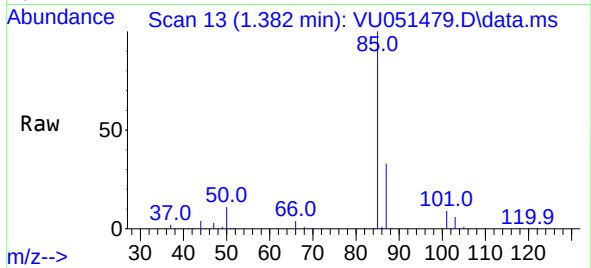




#2  
Dichlorodifluoromethane  
Concen: 44.518 ug/L  
RT: 1.382 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

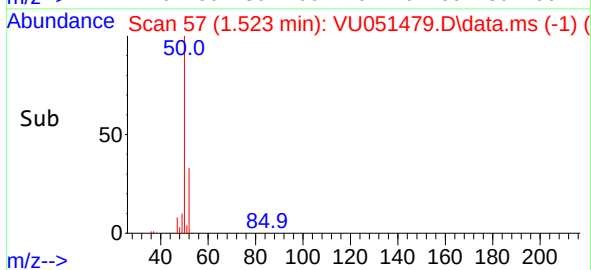
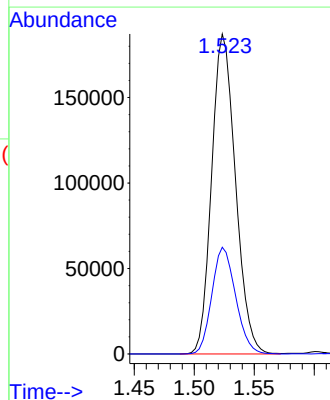
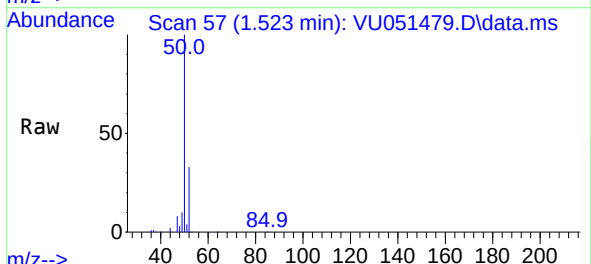
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

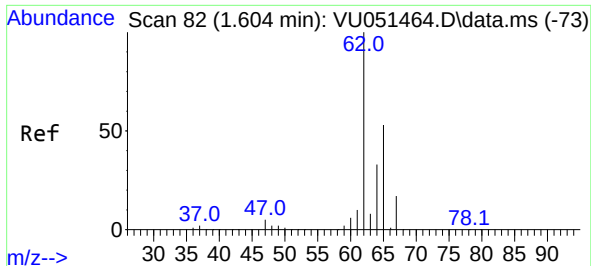
Tgt Ion: 85 Resp: 197489  
Ion Ratio Lower Upper  
85 100  
87 32.6 25.7 38.5



#3  
Chloromethane  
Concen: 45.603 ug/L  
RT: 1.523 min Scan# 57  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion: 50 Resp: 258569  
Ion Ratio Lower Upper  
50 100  
52 33.4 24.1 44.8

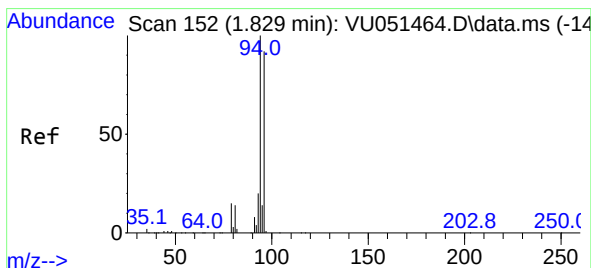
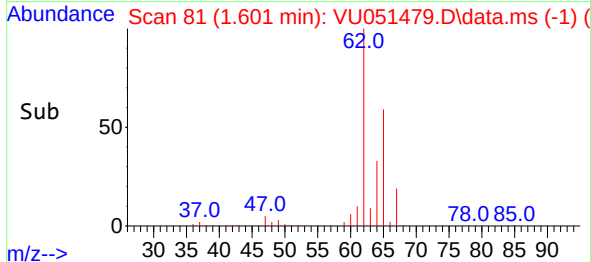
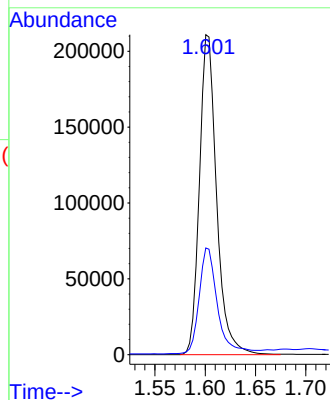
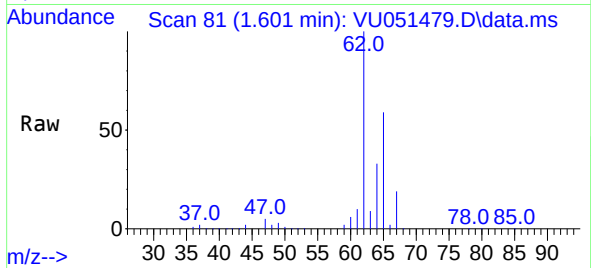




#5  
 Vinyl chloride  
 Concen: 44.633 ug/L  
 RT: 1.601 min Scan# 81  
 Delta R.T. -0.003 min  
 Lab File: VU051479.D  
 Acq: 21 Oct 2022 10:50

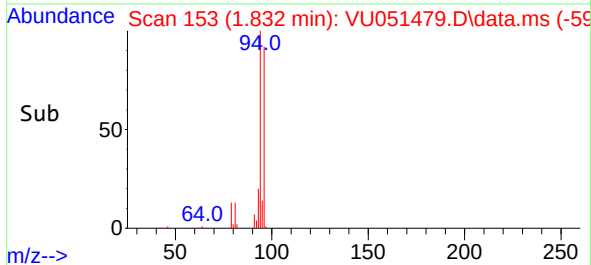
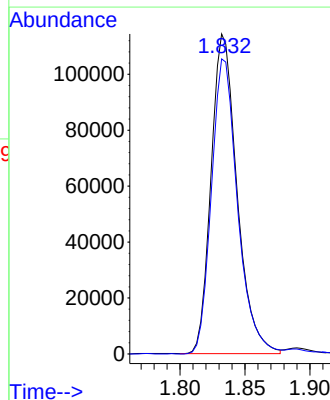
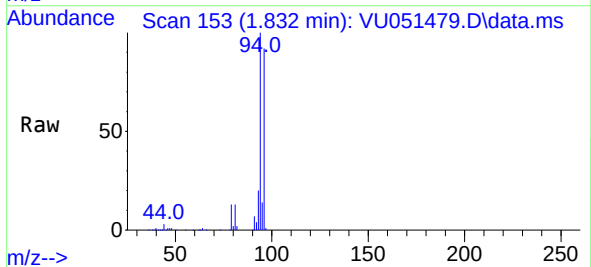
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050114

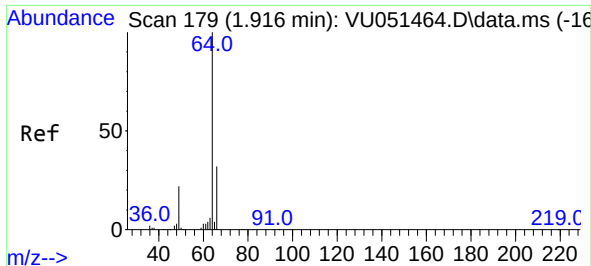
Tgt Ion: 62 Resp: 250463  
 Ion Ratio Lower Upper  
 62 100  
 64 33.4 23.2 43.2



#6  
 Bromomethane  
 Concen: 54.416 ug/L  
 RT: 1.832 min Scan# 153  
 Delta R.T. 0.003 min  
 Lab File: VU051479.D  
 Acq: 21 Oct 2022 10:50

Tgt Ion: 94 Resp: 158714  
 Ion Ratio Lower Upper  
 94 100  
 96 92.2 64.5 119.9

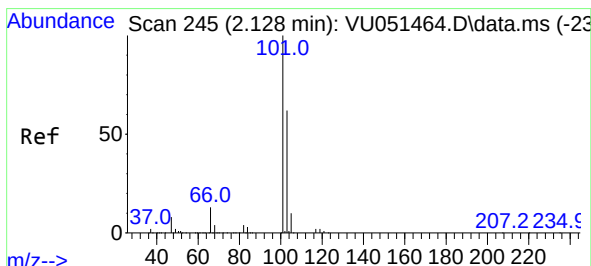
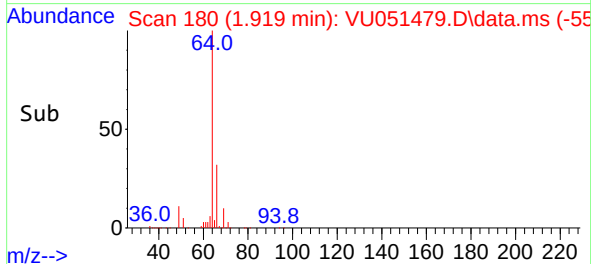
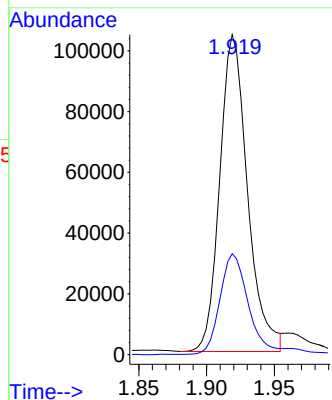
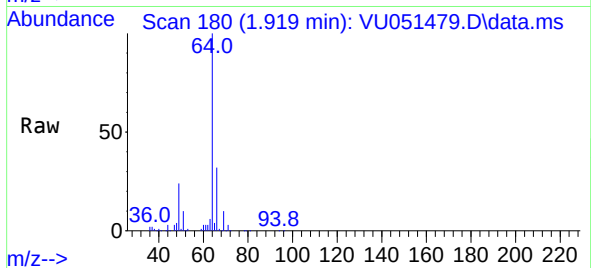




#8  
Chloroethane  
Concen: 44.330 ug/L  
RT: 1.919 min Scan# 179  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

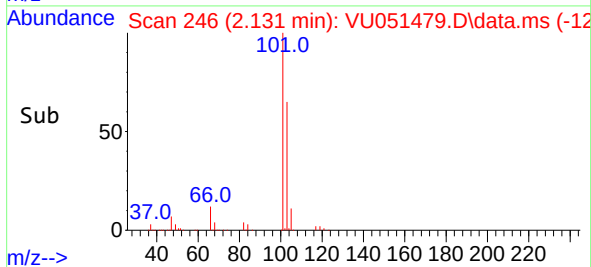
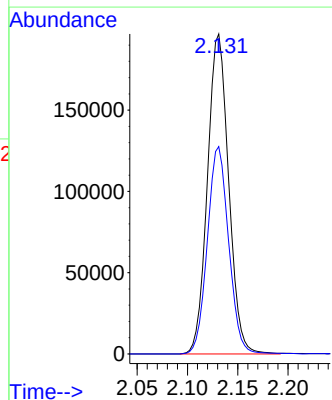
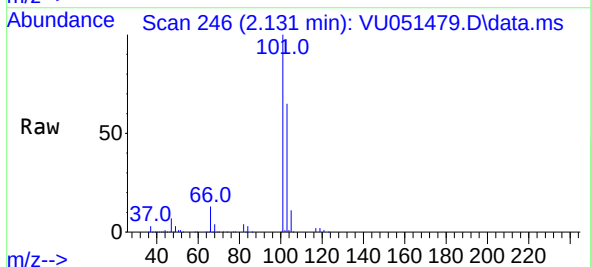
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

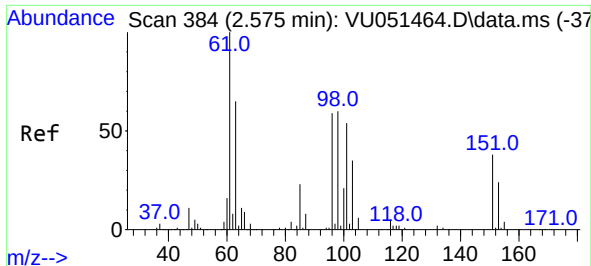
Tgt Ion: 64 Resp: 148664  
Ion Ratio Lower Upper  
64 100  
66 31.6 21.9 40.7



#9  
Trichlorofluoromethane  
Concen: 44.484 ug/L  
RT: 2.131 min Scan# 246  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion:101 Resp: 288801  
Ion Ratio Lower Upper  
101 100  
103 65.1 51.0 76.4

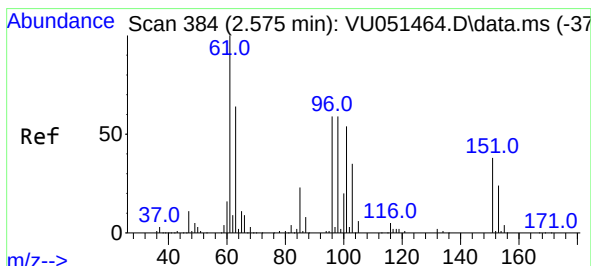
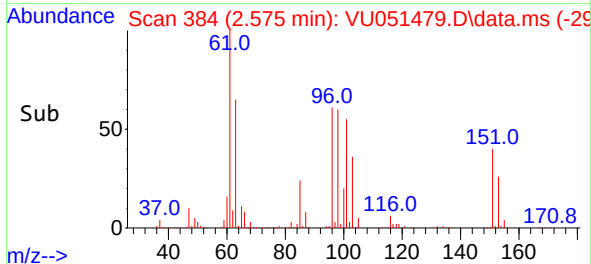
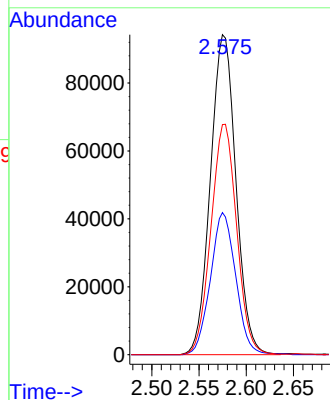
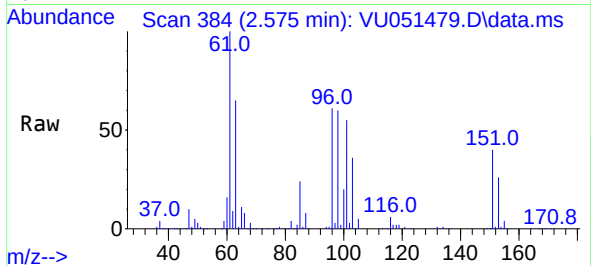




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 44.608 ug/L  
RT: 2.575 min Scan# 384  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

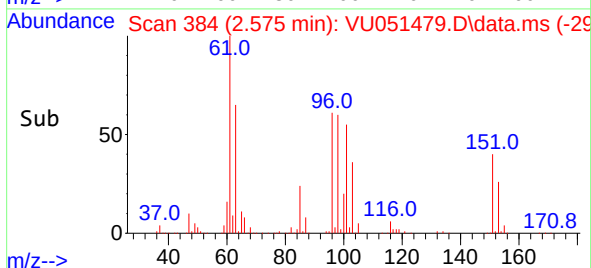
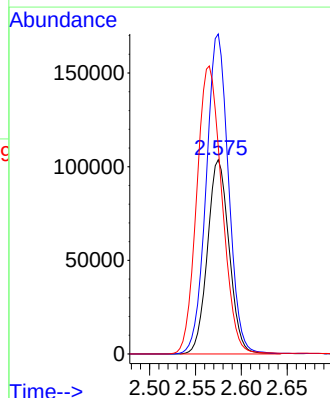
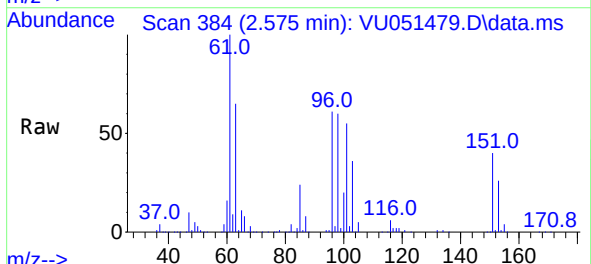
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

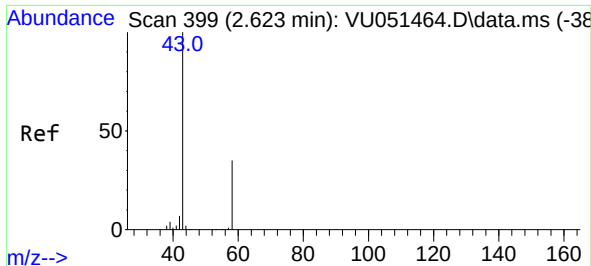
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Ion Ratio Lower Upper  
101 100  
85 44.1 35.2 52.8  
151 72.7 57.8 86.8



#12  
1,1-Dichloroethene  
Concen: 45.171 ug/L  
RT: 2.575 min Scan# 384  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion: 96 Resp: 169922  
Ion Ratio Lower Upper  
96 100  
61 164.7 119.0 221.0  
63 106.8 78.5 145.7





#13

Acetone

Concen: 111.529 ug/L

RT: 2.620 min Scan# 399

Delta R.T. -0.003 min

Lab File: VU051479.D

Acq: 21 Oct 2022 10:50

Instrument :

MSVOA\_U

ClientSampleId :

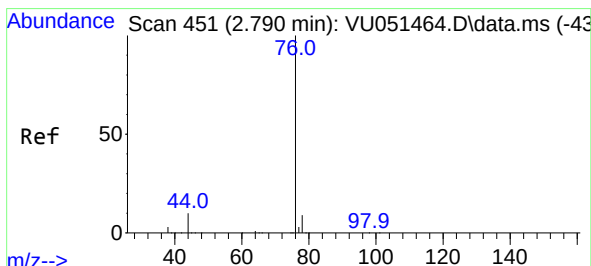
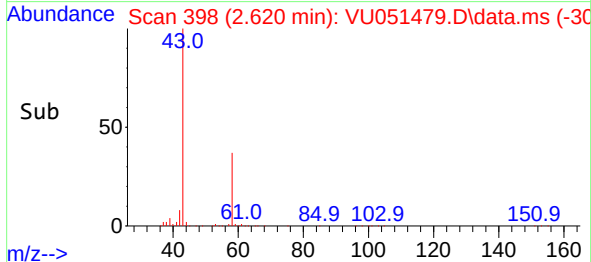
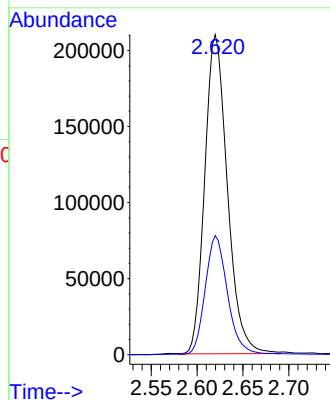
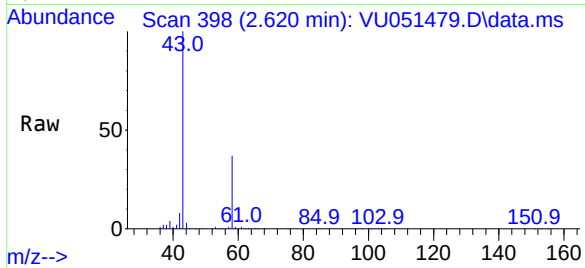
VSTD050114

Tgt Ion: 43 Resp: 360813

Ion Ratio Lower Upper

43 100

58 36.3 0.0 70.2



#14

Carbon disulfide

Concen: 44.135 ug/L

RT: 2.790 min Scan# 451

Delta R.T. 0.000 min

Lab File: VU051479.D

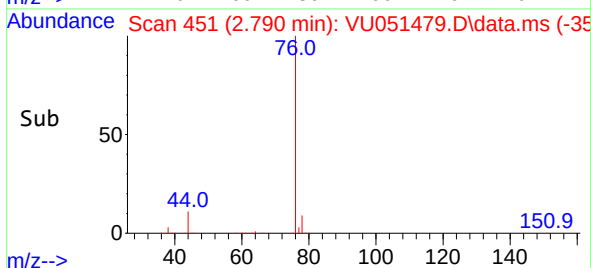
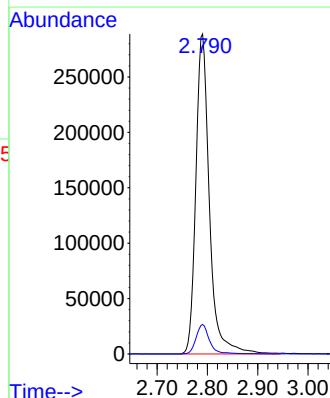
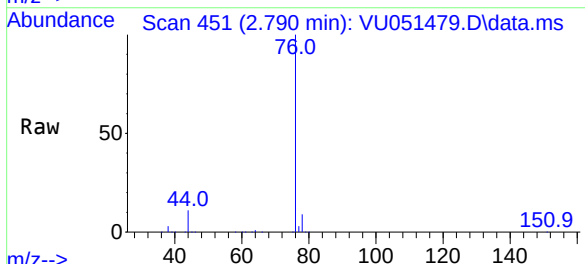
Acq: 21 Oct 2022 10:50

Tgt Ion: 76 Resp: 540762

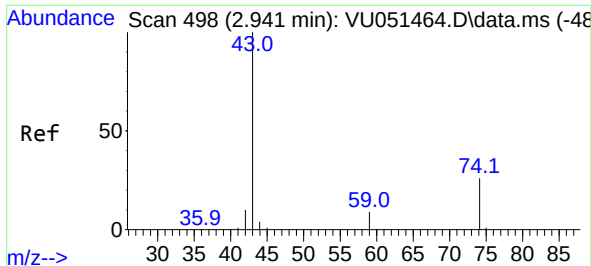
Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9



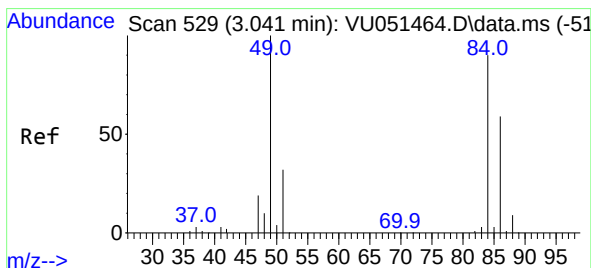
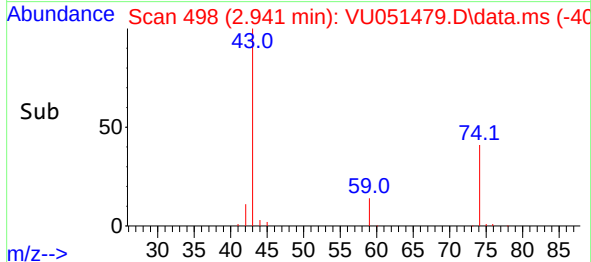
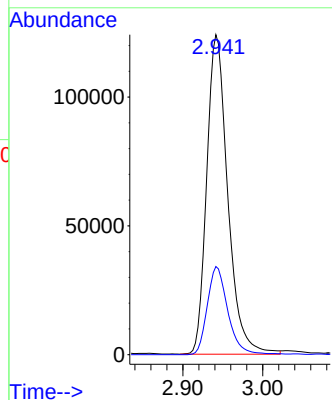
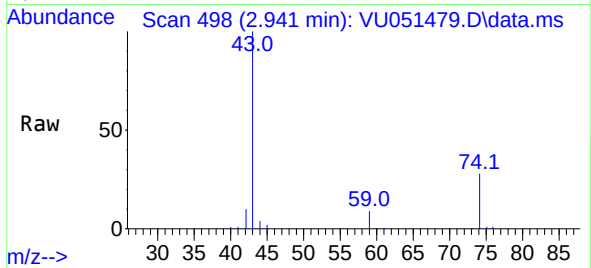




#15  
Methyl Acetate  
Concen: 46.419 ug/L  
RT: 2.941 min Scan# 498  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

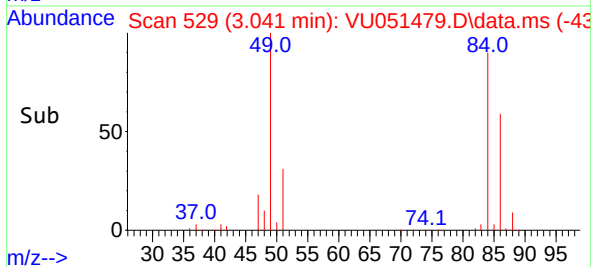
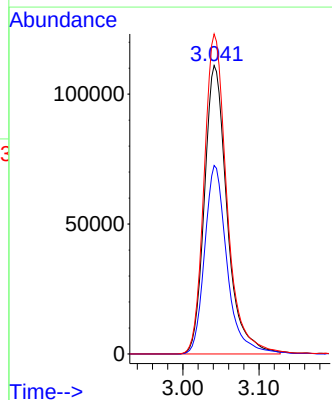
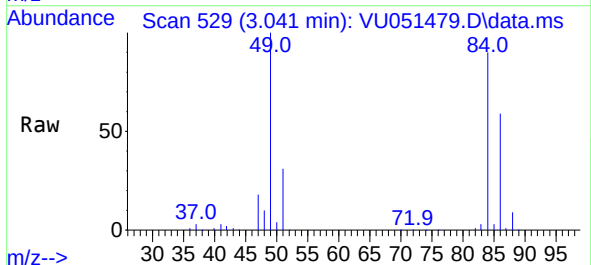
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

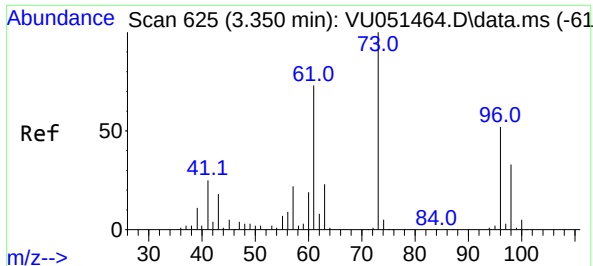
Tgt Ion: 43 Resp: 227107  
Ion Ratio Lower Upper  
43 100  
74 26.8 21.1 31.7



#16  
Methylene chloride  
Concen: 46.666 ug/L  
RT: 3.041 min Scan# 529  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion: 84 Resp: 230425  
Ion Ratio Lower Upper  
84 100  
86 65.3 45.8 85.2  
49 111.0 78.1 145.1

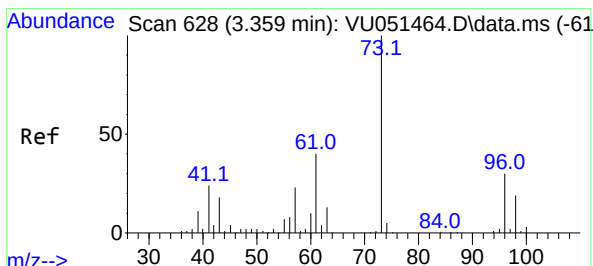
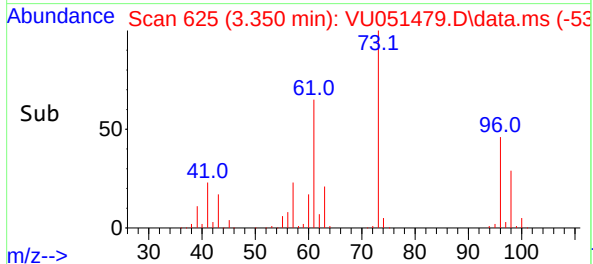
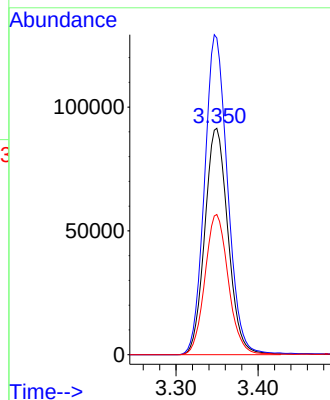
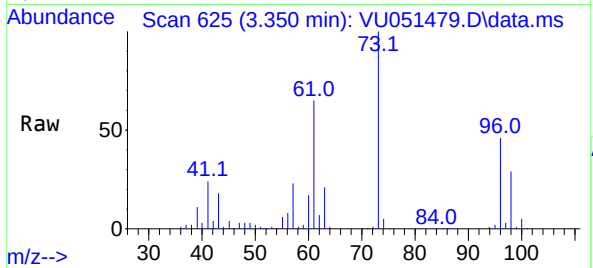




#17  
trans-1,2-Dichloroethene  
Concen: 46.531 ug/L  
RT: 3.350 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

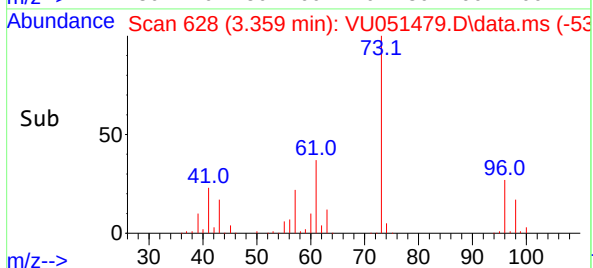
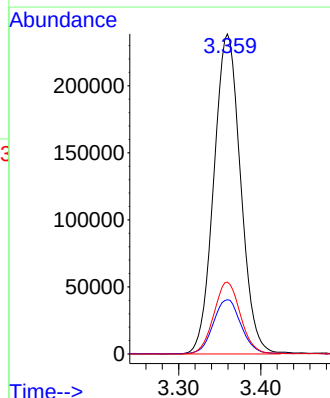
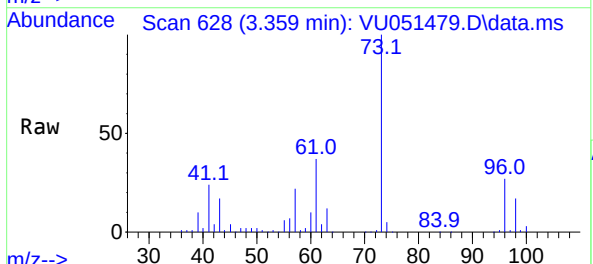
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

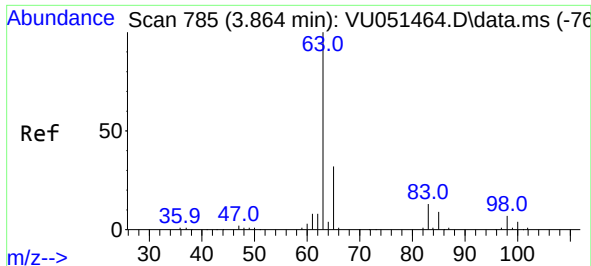
Tgt Ion: 96 Resp: 180017  
Ion Ratio Lower Upper  
96 100  
61 139.9 98.1 182.1  
98 61.9 44.8 83.2



#18  
Methyl tert-butyl Ether  
Concen: 48.886 ug/L  
RT: 3.359 min Scan# 628  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion: 73 Resp: 540823  
Ion Ratio Lower Upper  
73 100  
43 17.4 13.9 20.9  
57 22.5 17.7 26.5

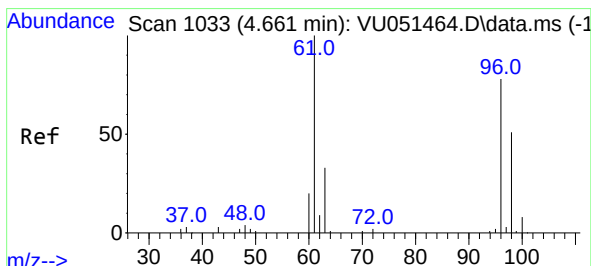
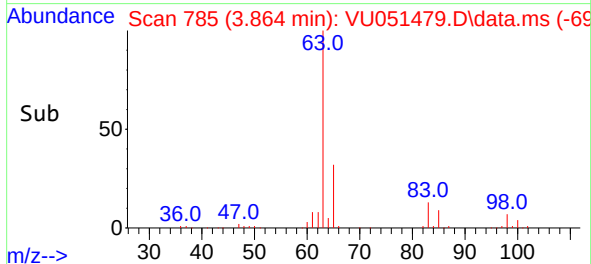
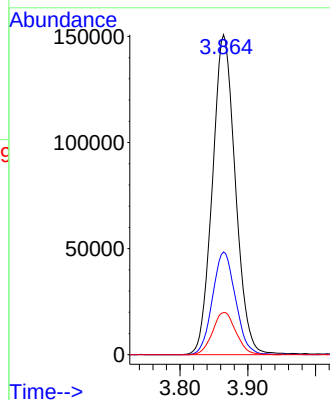
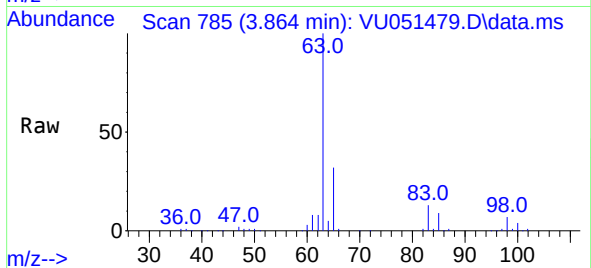




#19  
1,1-Dichloroethane  
Concen: 46.461 ug/L  
RT: 3.864 min Scan# 785  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

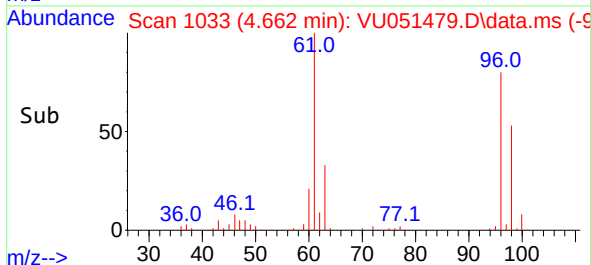
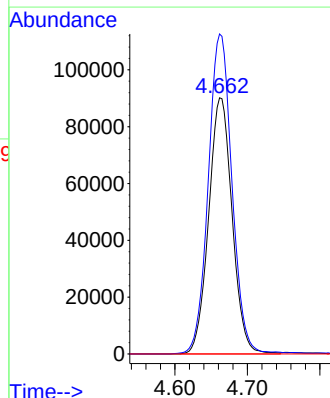
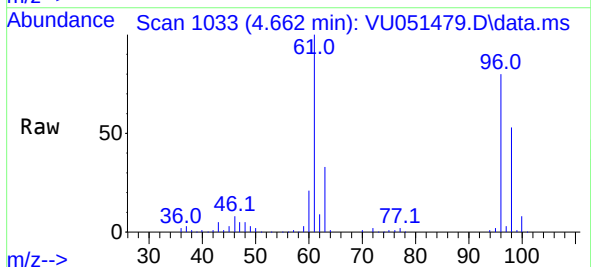
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

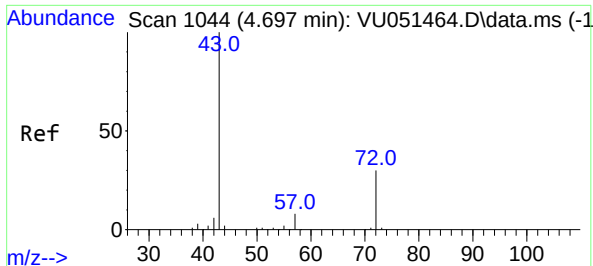
Tgt Ion: 63 Resp: 354535  
Ion Ratio Lower Upper  
63 100  
65 32.1 22.1 41.1  
83 13.2 9.4 17.4



#20  
cis-1,2-Dichloroethene  
Concen: 48.053 ug/L  
RT: 4.662 min Scan# 1033  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion: 96 Resp: 202824  
Ion Ratio Lower Upper  
96 100  
61 124.9 89.7 166.7  
68 0.0 0.0 0.0

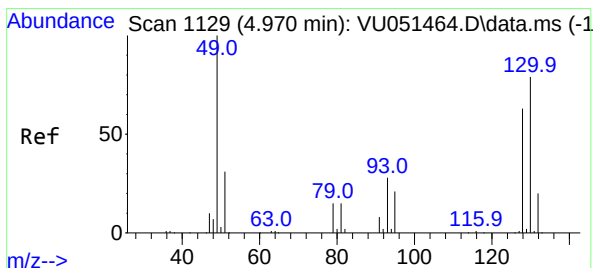
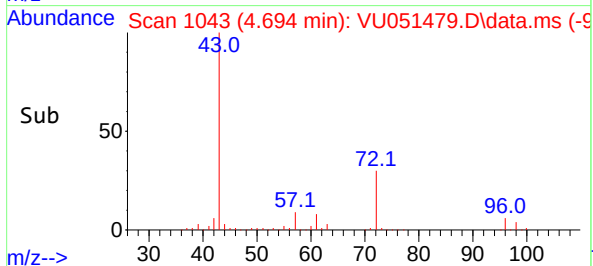
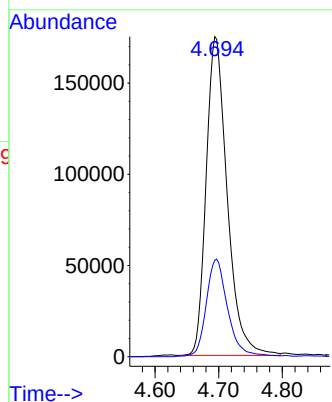
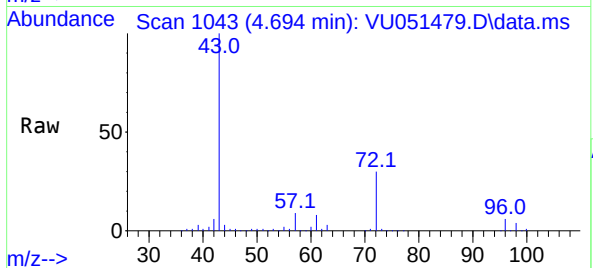




#22  
2-Butanone  
Concen: 106.975 ug/L  
RT: 4.694 min Scan# 1043  
Delta R.T. -0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

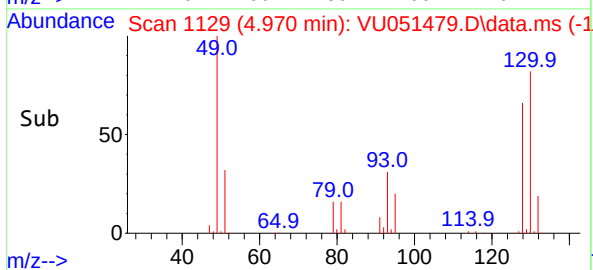
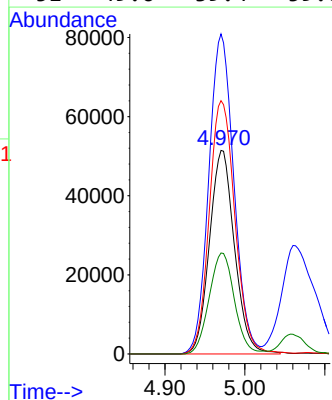
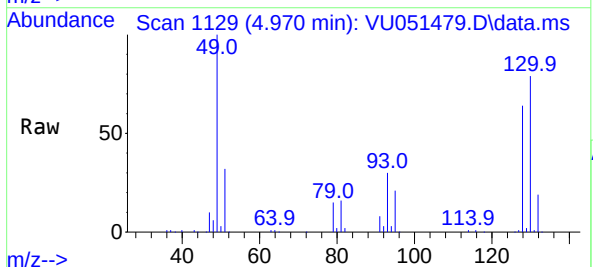
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

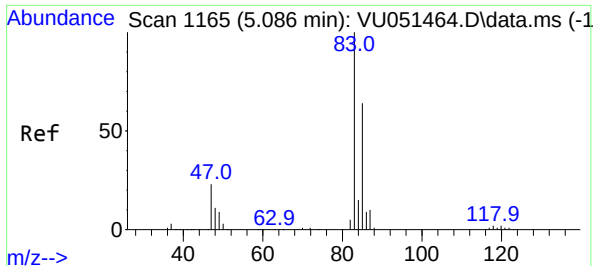
Tgt Ion: 43 Resp: 401649  
Ion Ratio Lower Upper  
43 100  
72 31.2 15.2 45.6



#23  
Bromochloromethane  
Concen: 47.221 ug/L  
RT: 4.970 min Scan# 1129  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion:128 Resp: 111825  
Ion Ratio Lower Upper  
128 100  
49 157.2 111.9 207.9  
130 124.4 88.2 163.8  
51 49.6 39.4 59.0





#25

Chloroform

Concen: 47.011 ug/L

RT: 5.086 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VU051479.D

Acq: 21 Oct 2022 10:50

Instrument :

MSVOA\_U

ClientSampleId :

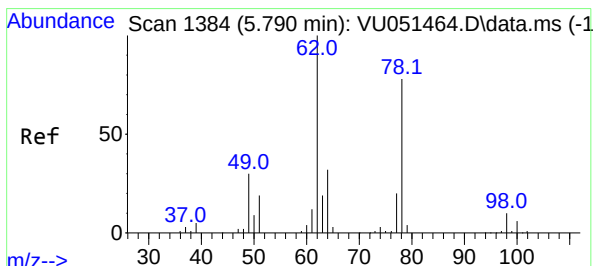
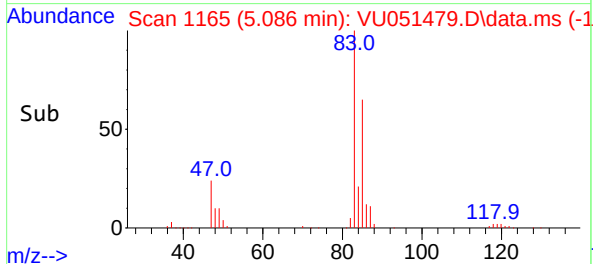
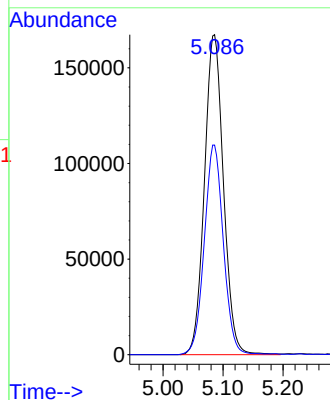
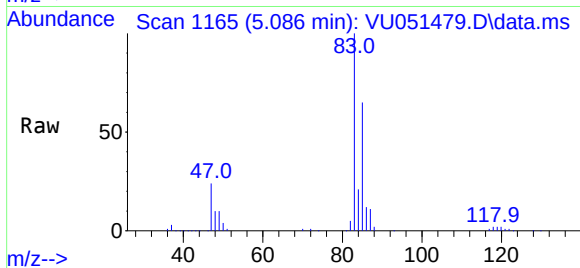
VSTD050114

Tgt Ion: 83 Resp: 369837

Ion Ratio Lower Upper

83 100

85 65.5 45.1 83.9



#27

1,2-Dichloroethane

Concen: 47.235 ug/L

RT: 5.790 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VU051479.D

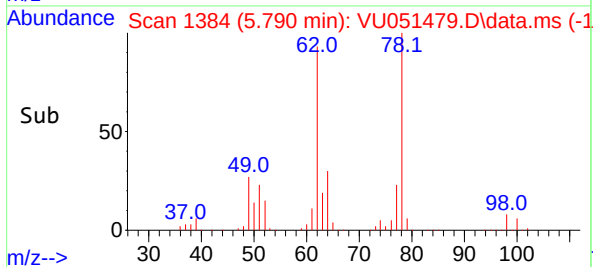
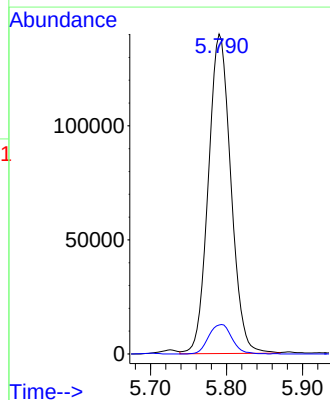
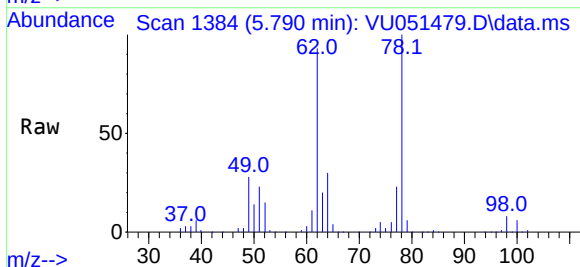
Acq: 21 Oct 2022 10:50

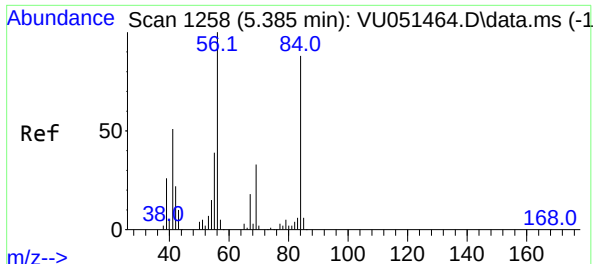
Tgt Ion: 62 Resp: 288538

Ion Ratio Lower Upper

62 100

98 9.1 8.0 12.0





#29

Cyclohexane

Concen: 50.237 ug/L

RT: 5.385 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VU051479.D

Acq: 21 Oct 2022 10:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050114

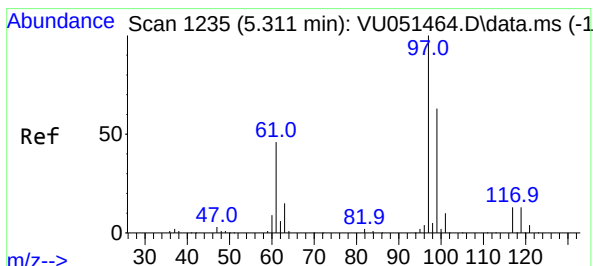
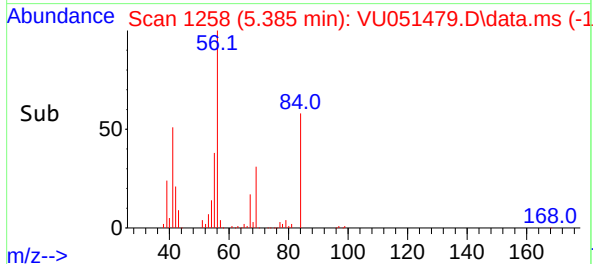
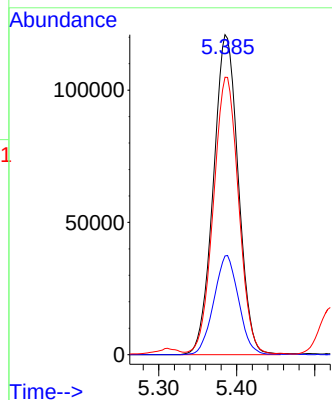
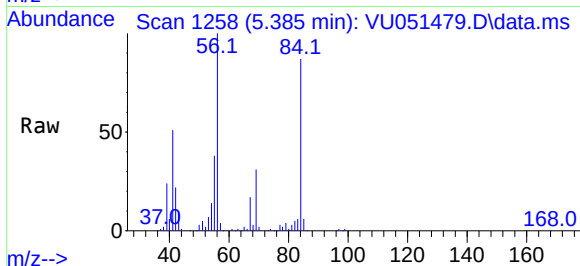
Tgt Ion: 56 Resp: 269206

Ion Ratio Lower Upper

56 100

69 30.7 25.5 38.3

84 87.6 69.8 104.6



#30

1,1,1-Trichloroethane

Concen: 46.651 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. 0.003 min

Lab File: VU051479.D

Acq: 21 Oct 2022 10:50

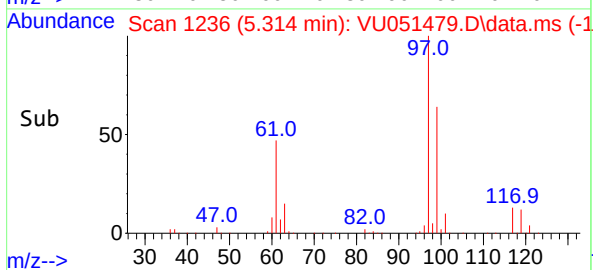
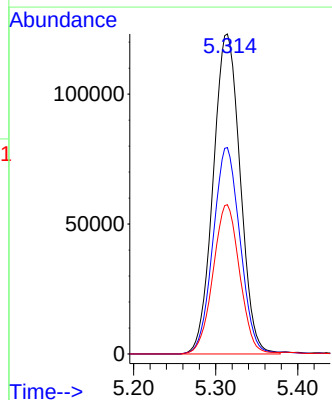
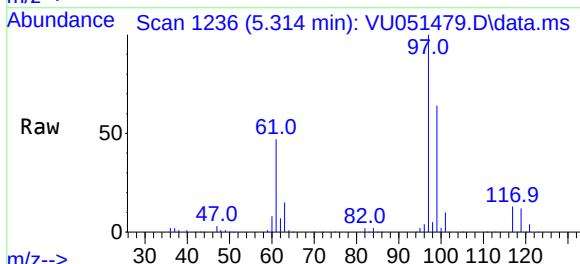
Tgt Ion: 97 Resp: 282222

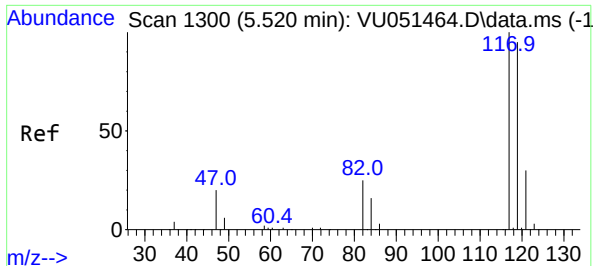
Ion Ratio Lower Upper

97 100

99 64.5 50.7 76.1

61 46.1 36.7 55.1

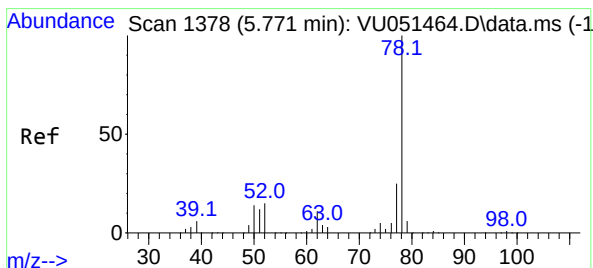
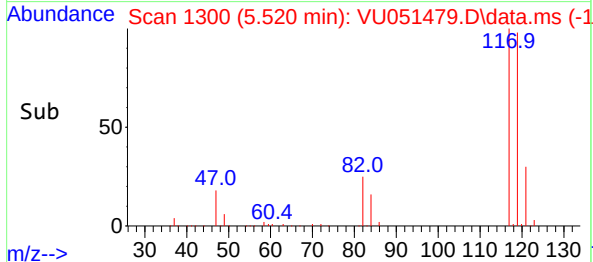
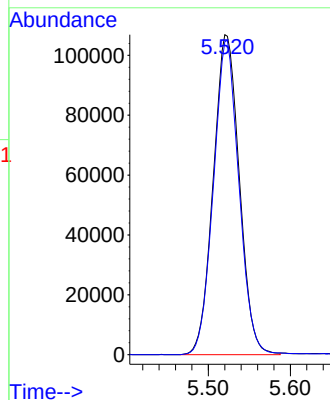
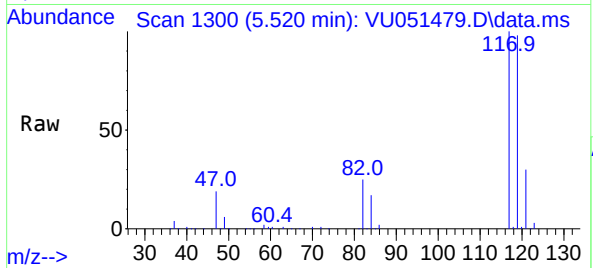




#31  
Carbon tetrachloride  
Concen: 46.168 ug/L  
RT: 5.520 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

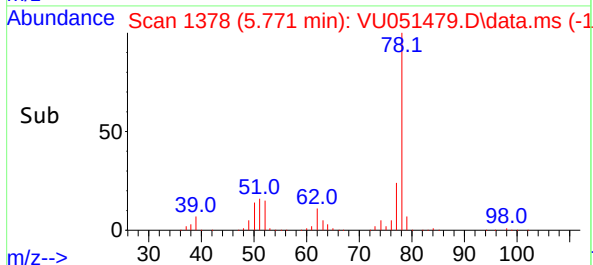
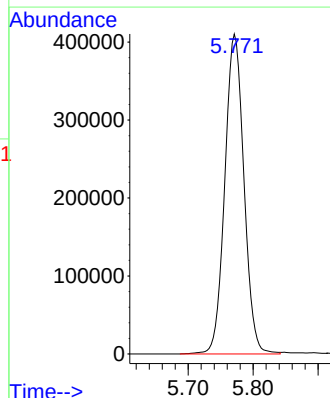
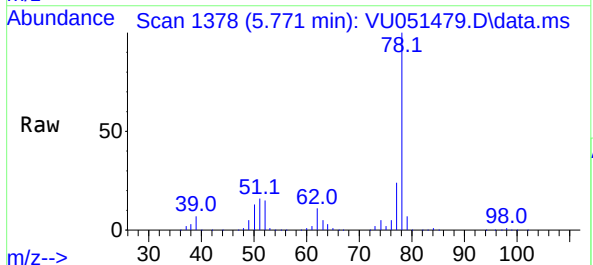
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MSVOA\_U  
ClientSampleId :  
VSTD050114

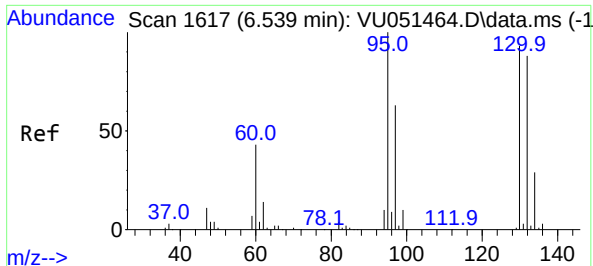
Tgt Ion:117 Resp: 235820  
Ion Ratio Lower Upper  
117 100  
119 95.9 77.0 115.6



#33  
Benzene  
Concen: 50.269 ug/L  
RT: 5.771 min Scan# 1378  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion: 78 Resp: 838170

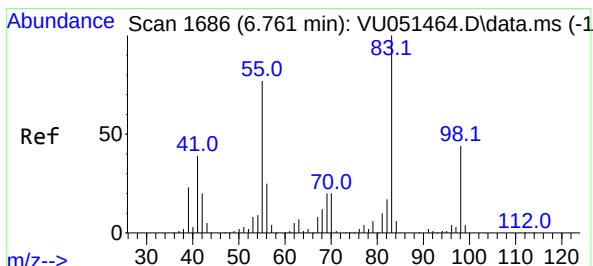
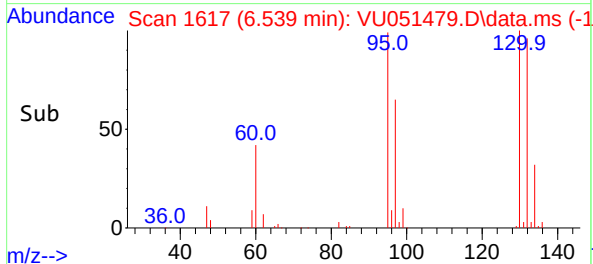
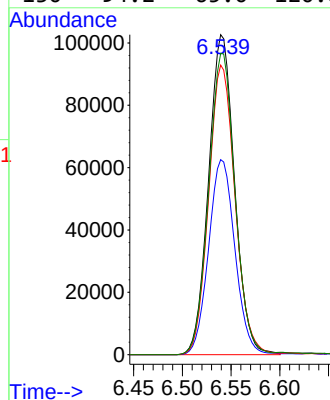
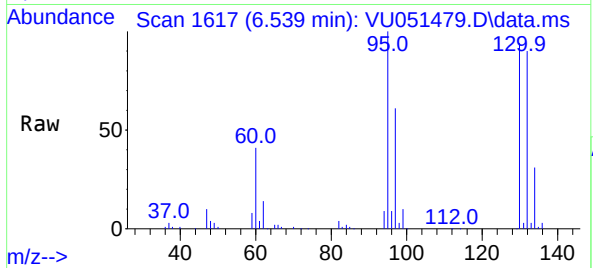




#34  
Trichloroethene  
Concen: 47.381 ug/L  
RT: 6.539 min Scan# 1617  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

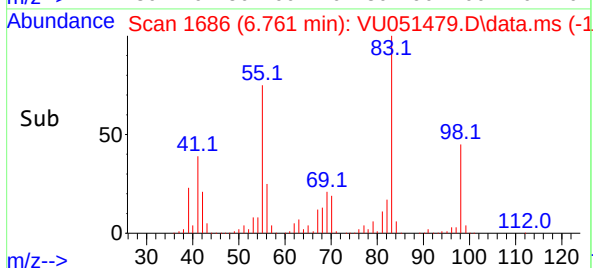
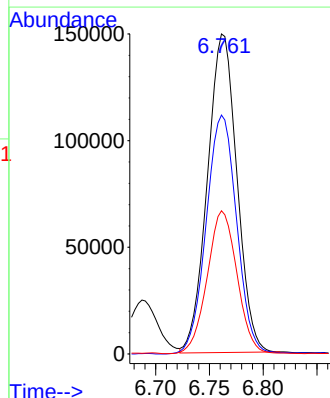
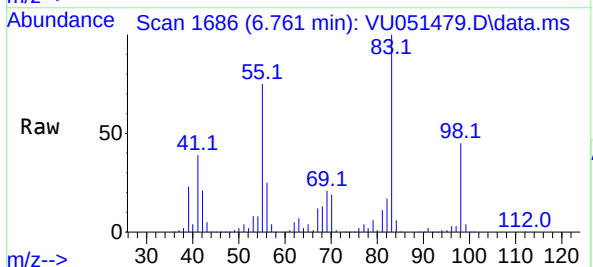
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

Tgt Ion: 95 Resp: 190637  
Ion Ratio Lower Upper  
95 100  
97 61.0 43.8 81.4  
132 90.5 61.9 114.9  
130 94.2 65.0 120.8

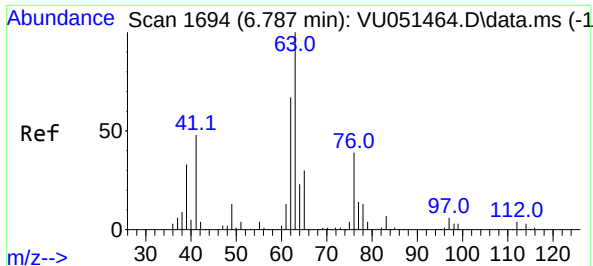


#35  
Methylcyclohexane  
Concen: 49.582 ug/L  
RT: 6.761 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion: 83 Resp: 285382  
Ion Ratio Lower Upper  
83 100  
55 77.4 62.6 93.8  
98 45.2 36.2 54.4



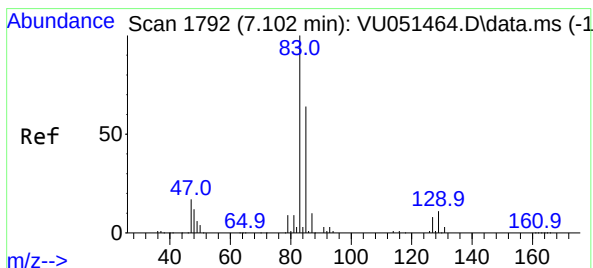
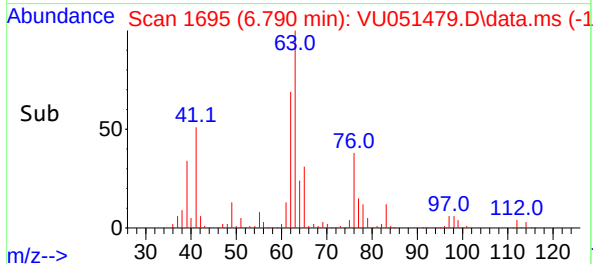
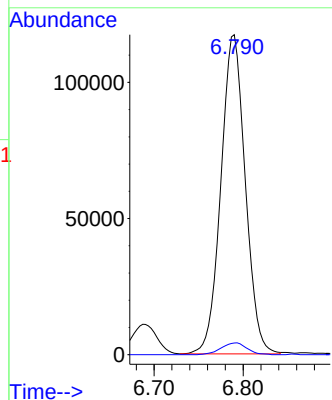
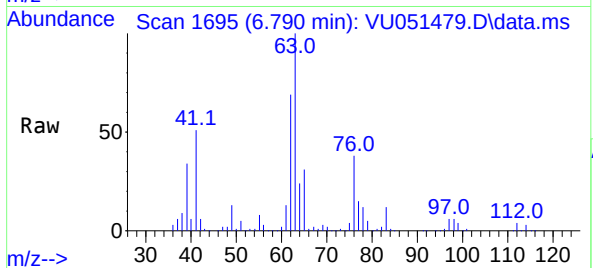




#37  
1,2-Dichloropropane  
Concen: 48.739 ug/L  
RT: 6.790 min Scan# 1  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

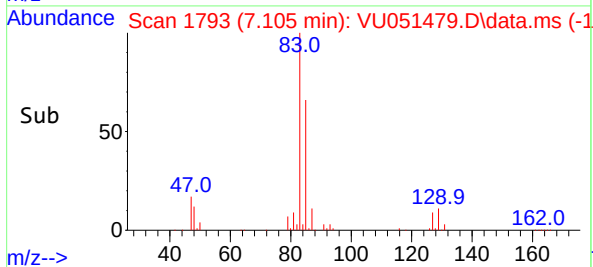
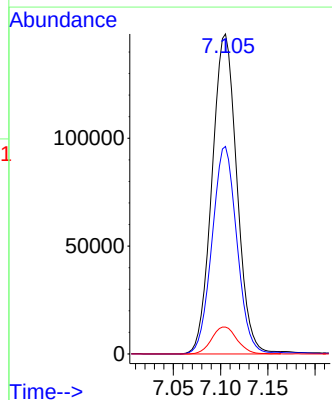
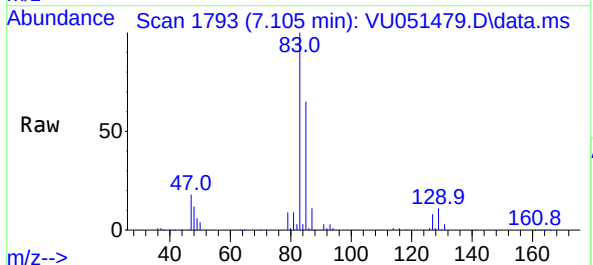
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

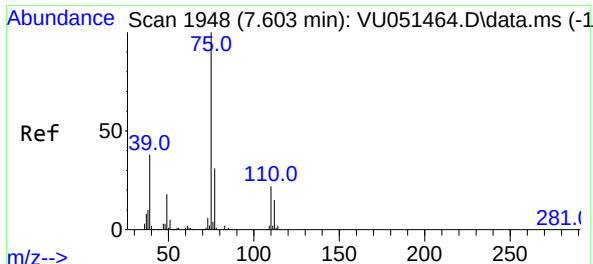
Tgt Ion: 63 Resp: 222861  
Ion Ratio Lower Upper  
63 100  
112 3.9 3.2 4.8



#38  
Bromodichloromethane  
Concen: 46.640 ug/L  
RT: 7.105 min Scan# 1793  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion: 83 Resp: 271485  
Ion Ratio Lower Upper  
83 100  
85 64.9 44.9 83.5  
127 8.4 6.6 9.8





#39

cis-1,3-Dichloropropene

Concen: 49.536 ug/L

RT: 7.604 min Scan# 1948

Delta R.T. 0.000 min

Lab File: VU051479.D

Acq: 21 Oct 2022 10:50

Instrument :

MSVOA\_U

ClientSampleId :

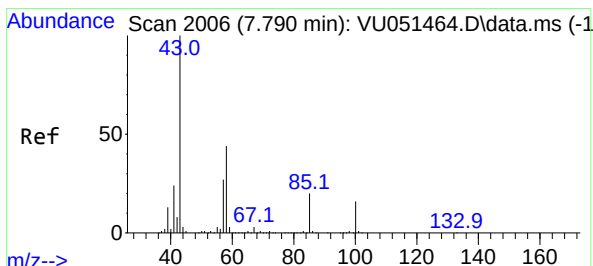
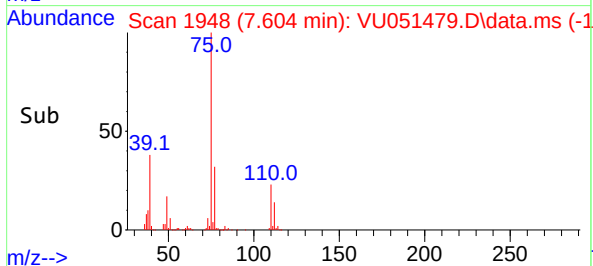
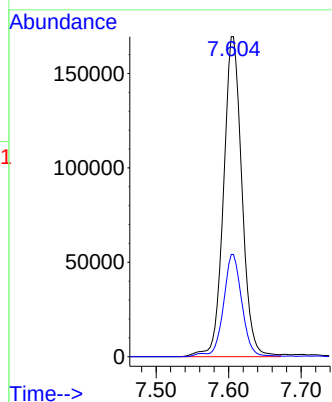
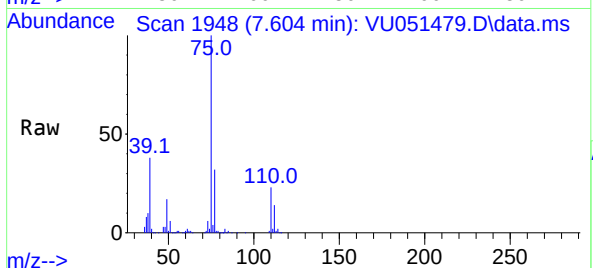
VSTD050114

Tgt Ion: 75 Resp: 298627

Ion Ratio Lower Upper

75 100

77 32.0 22.0 40.8



#40

4-Methyl-2-pentanone

Concen: 101.920 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VU051479.D

Acq: 21 Oct 2022 10:50

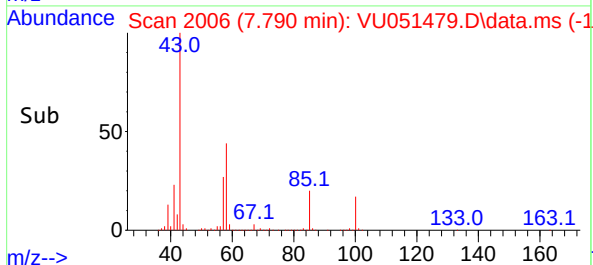
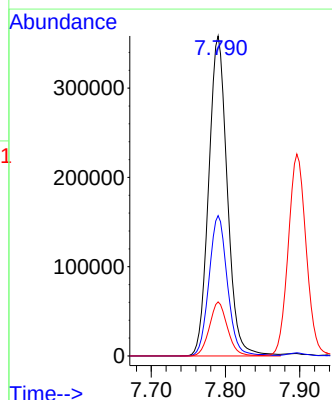
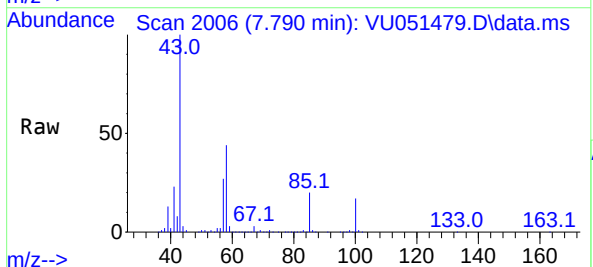
Tgt Ion: 43 Resp: 622697

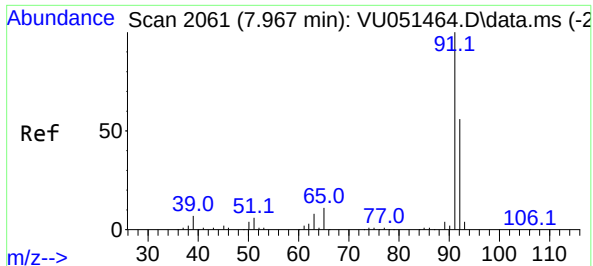
Ion Ratio Lower Upper

43 100

58 43.3 34.4 51.6

100 16.4 12.9 19.3

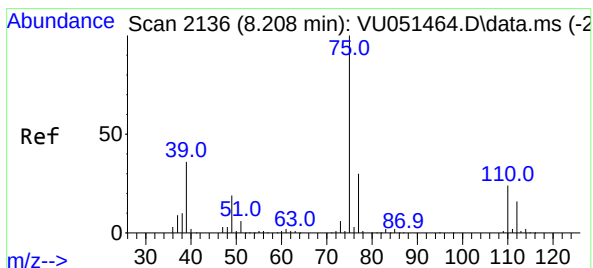
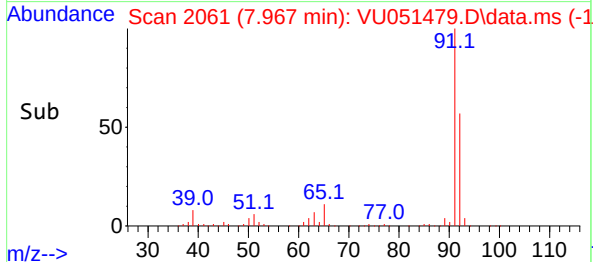
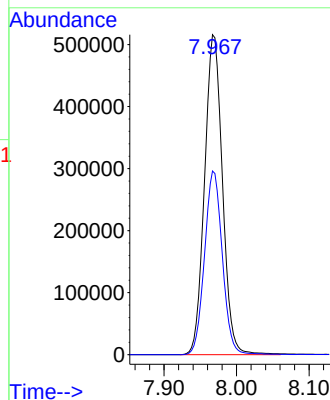
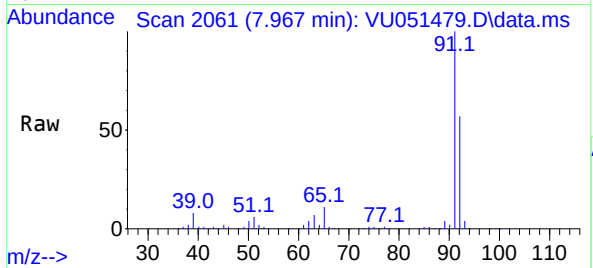




#42  
Toluene  
Concen: 51.822 ug/L  
RT: 7.967 min Scan# 2061  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

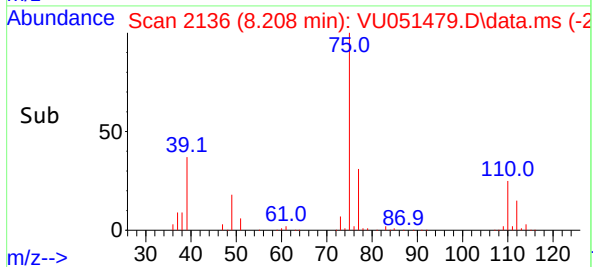
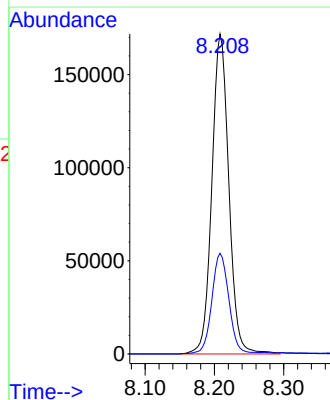
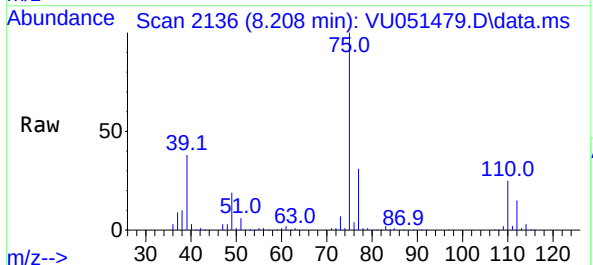
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

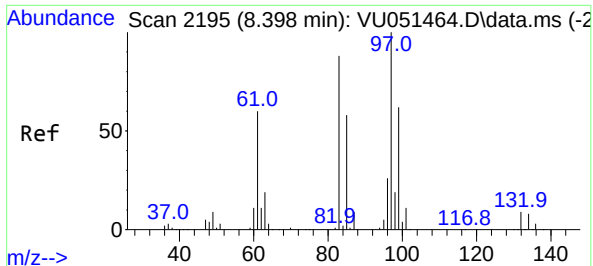
Tgt Ion: 91 Resp: 886703  
Ion Ratio Lower Upper  
91 100  
92 57.4 39.3 73.1



#44  
trans-1,3-Dichloropropene  
Concen: 49.705 ug/L  
RT: 8.208 min Scan# 2136  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion: 75 Resp: 291610  
Ion Ratio Lower Upper  
75 100  
77 31.4 21.3 39.5



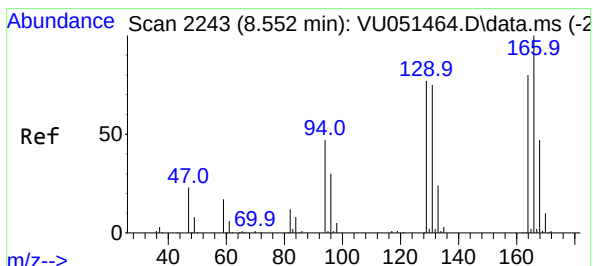
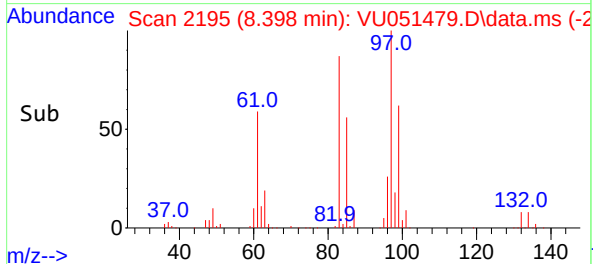
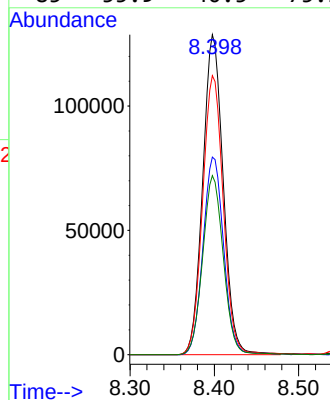
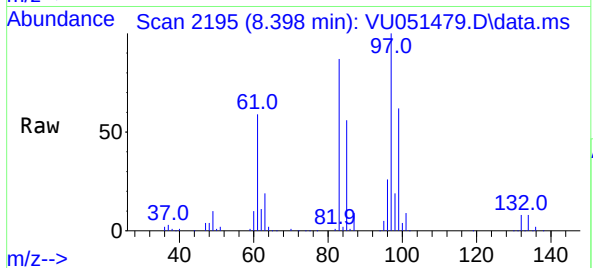


#45  
1,1,2-Trichloroethane  
Concen: 47.760 ug/L  
RT: 8.398 min Scan# 2195  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

Tgt Ion: 97 Resp: 217959

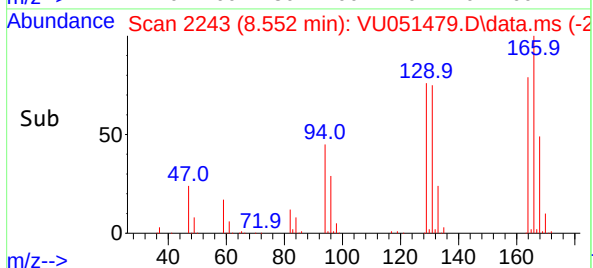
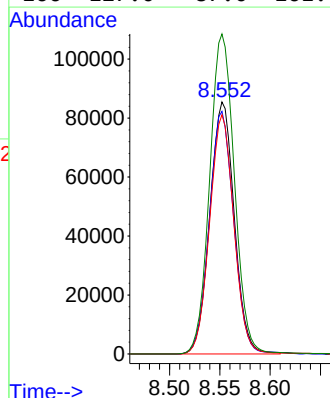
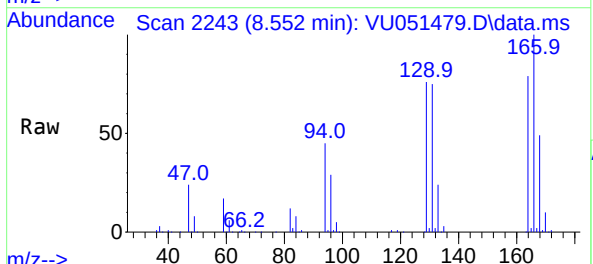
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 61.7  | 43.6  | 81.0  |
| 83  | 87.2  | 61.8  | 114.8 |
| 85  | 55.9  | 40.5  | 75.3  |

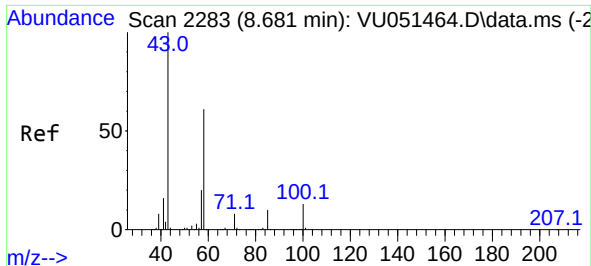


#46  
Tetrachloroethene  
Concen: 48.199 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion: 164 Resp: 144756

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 96.3  | 67.3  | 124.9 |
| 131 | 94.9  | 65.2  | 121.0 |
| 166 | 127.0 | 87.0  | 161.6 |

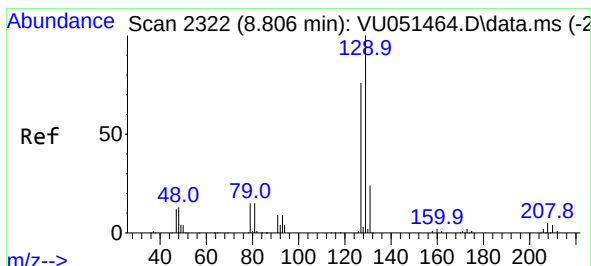
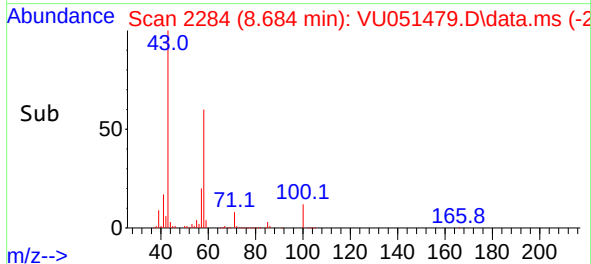
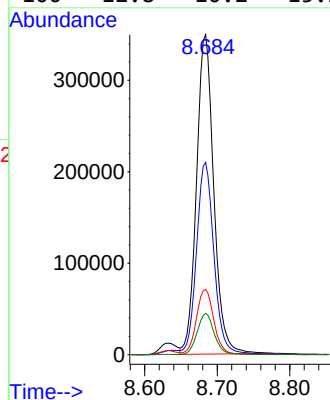
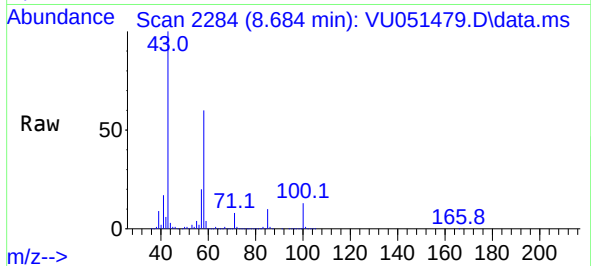




#48  
2-Hexanone  
Concen: 110.745 ug/L  
RT: 8.684 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

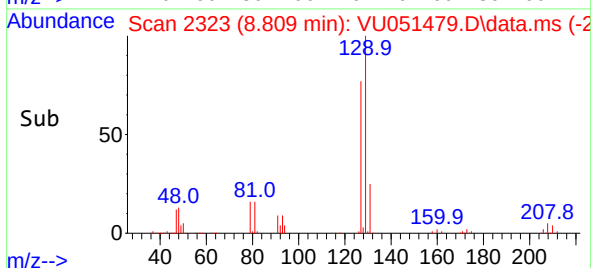
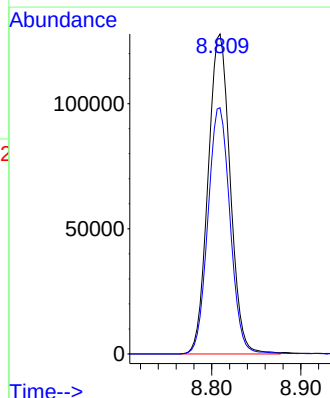
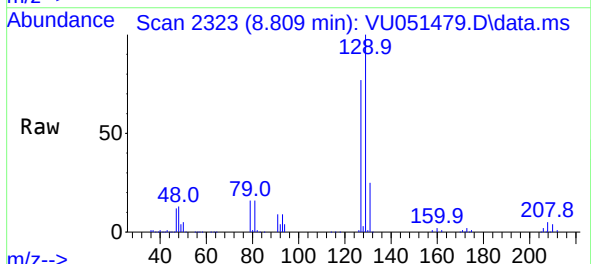
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

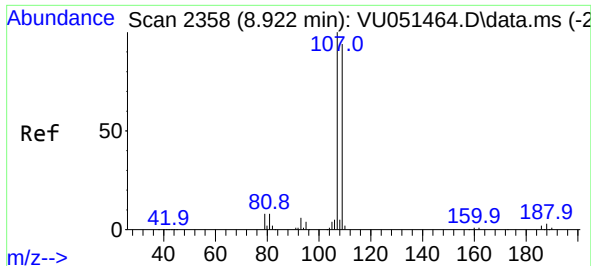
Tgt Ion: 43 Resp: 578181  
Ion Ratio Lower Upper  
43 100  
58 60.4 48.2 72.4  
57 20.5 16.4 24.6  
100 12.8 10.2 15.2



#49  
Dibromochloromethane  
Concen: 47.196 ug/L  
RT: 8.809 min Scan# 2323  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion: 129 Resp: 220452  
Ion Ratio Lower Upper  
129 100  
127 77.0 53.1 98.5

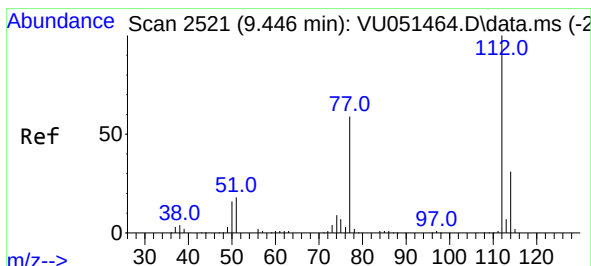
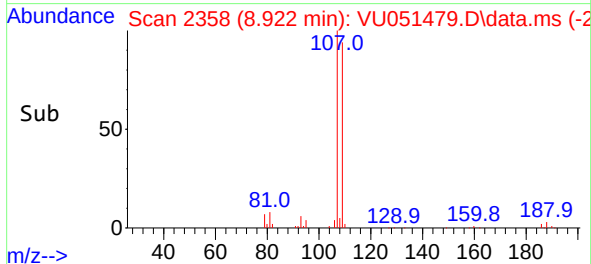
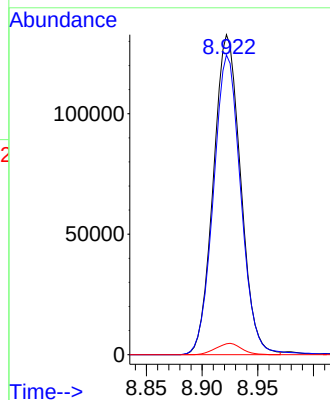
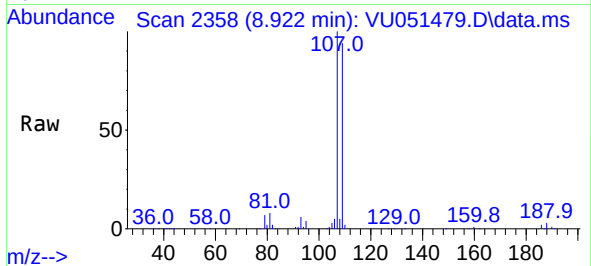




#50  
1,2-Dibromoethane  
Concen: 48.258 ug/L  
RT: 8.922 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

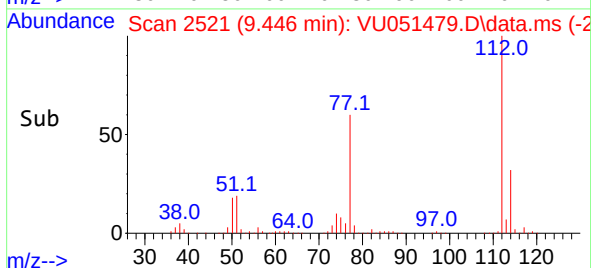
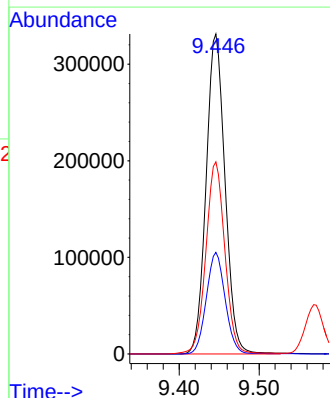
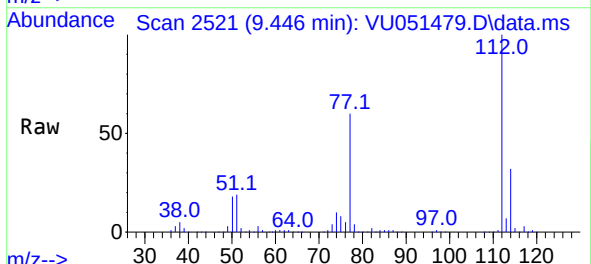
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

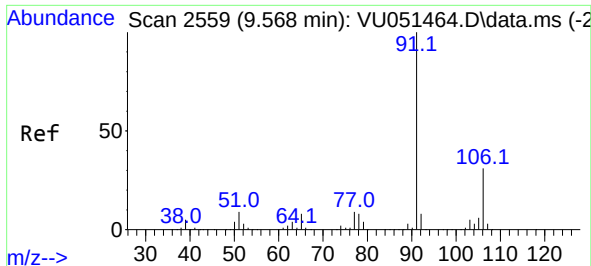
Tgt Ion:107 Resp: 225679  
Ion Ratio Lower Upper  
107 100  
109 93.7 65.8 122.2  
188 3.4 2.7 4.1



#51  
Chlorobenzene  
Concen: 48.646 ug/L  
RT: 9.446 min Scan# 2521  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion:112 Resp: 545067  
Ion Ratio Lower Upper  
112 100  
114 31.8 21.9 40.7  
77 60.1 47.3 70.9

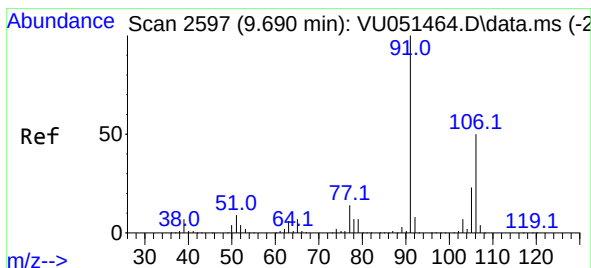
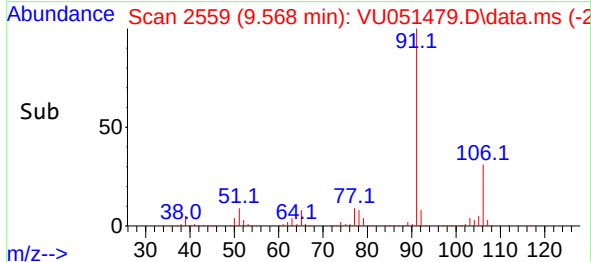
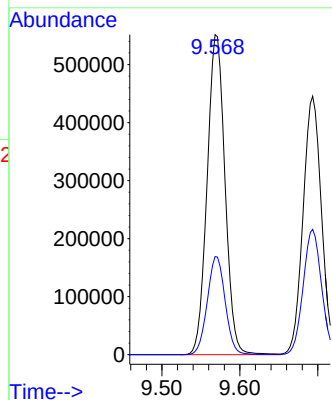
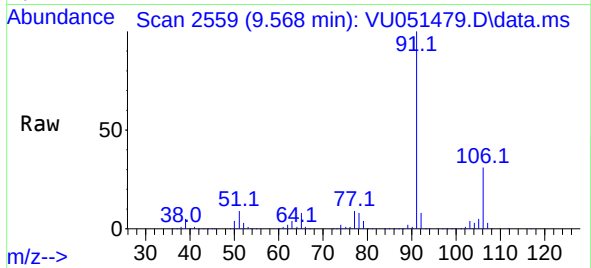




#52  
Ethylbenzene  
Concen: 50.950 ug/L  
RT: 9.568 min Scan# 2559  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

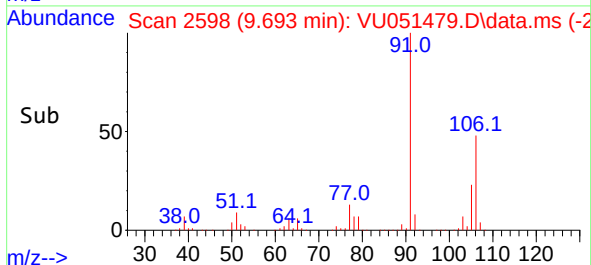
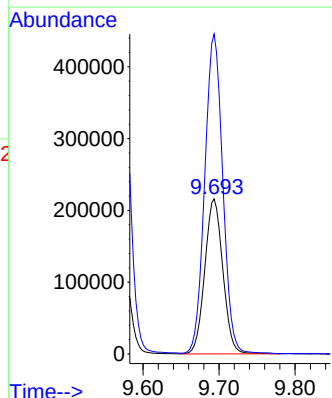
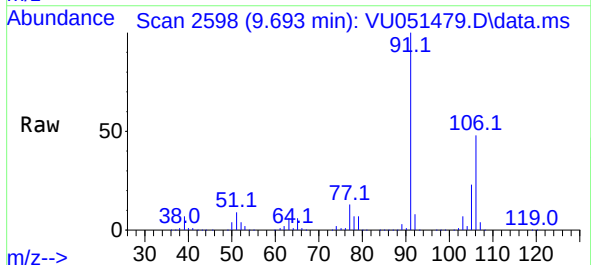
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

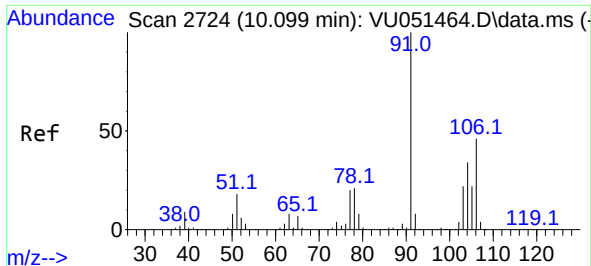
Tgt Ion: 91 Resp: 879116  
Ion Ratio Lower Upper  
91 100  
106 30.6 21.3 39.6



#53  
m,p-Xylene  
Concen: 53.425 ug/L  
RT: 9.693 min Scan# 2598  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion: 106 Resp: 355318  
Ion Ratio Lower Upper  
106 100  
91 206.4 141.3 262.3

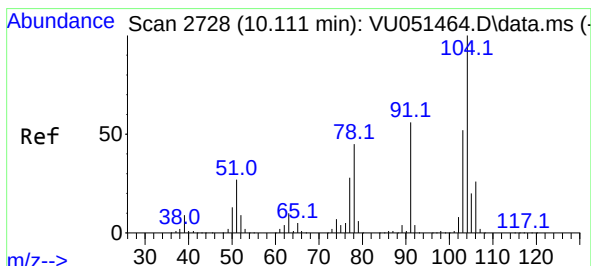
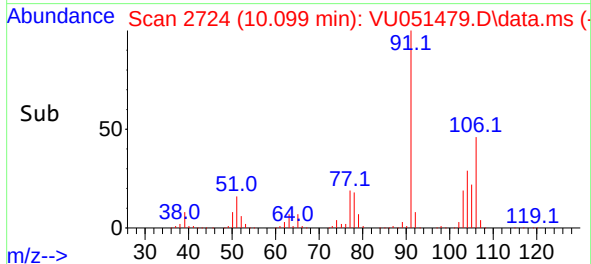
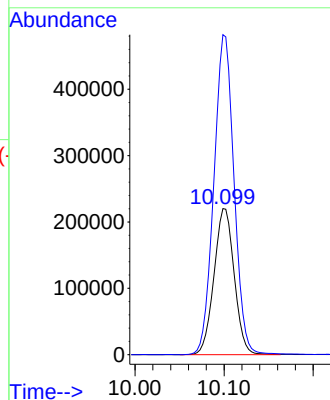
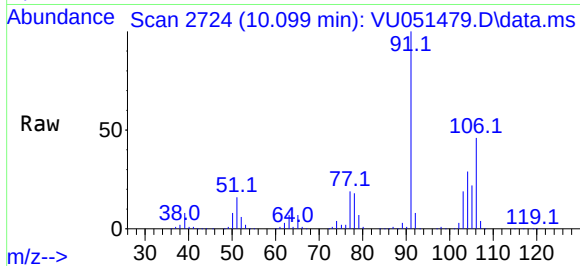




#54  
o-Xylene  
Concen: 52.680 ug/L  
RT: 10.099 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

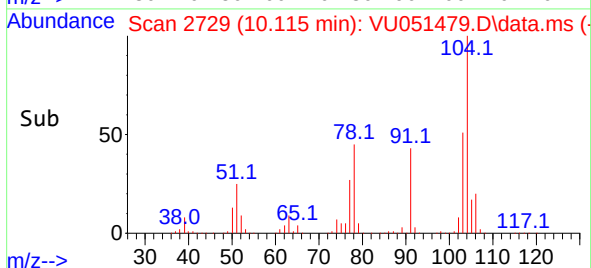
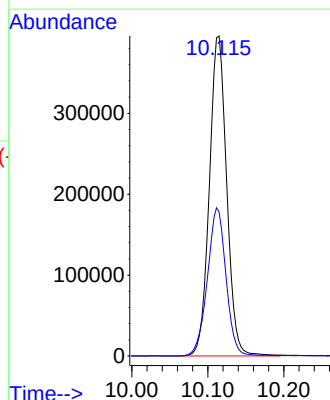
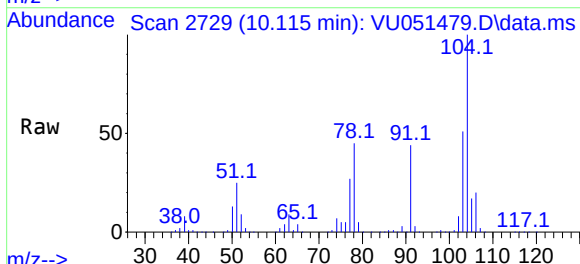
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

Tgt Ion:106 Resp: 347535  
Ion Ratio Lower Upper  
106 100  
91 219.2 153.2 284.4

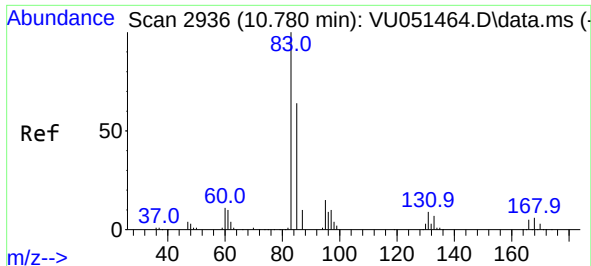


#55  
Styrene  
Concen: 54.761 ug/L  
RT: 10.115 min Scan# 2729  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion:104 Resp: 627778  
Ion Ratio Lower Upper  
104 100  
78 45.0 31.8 59.0



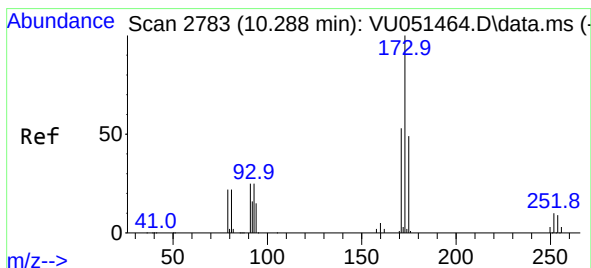
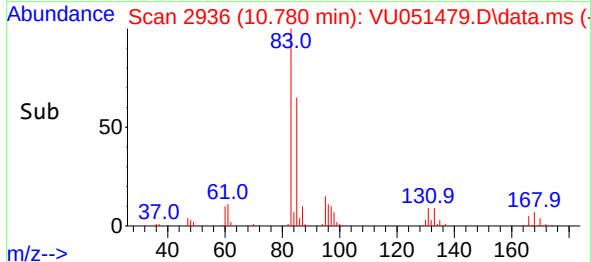
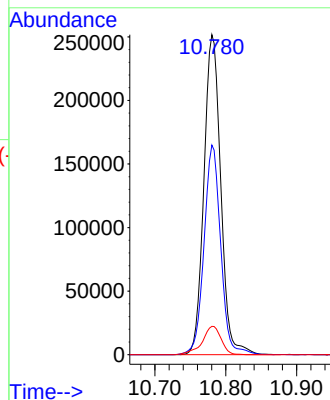
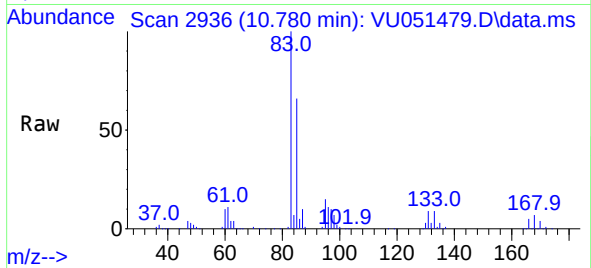




#57  
1,1,2,2-Tetrachloroethane  
Concen: 47.748 ug/L  
RT: 10.780 min Scan# 2936  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

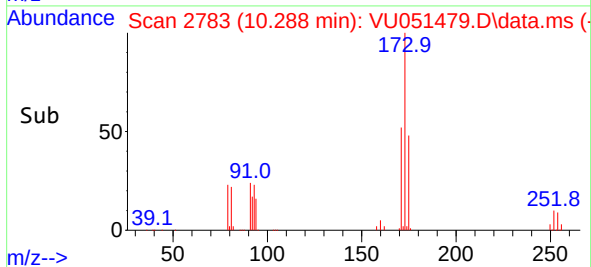
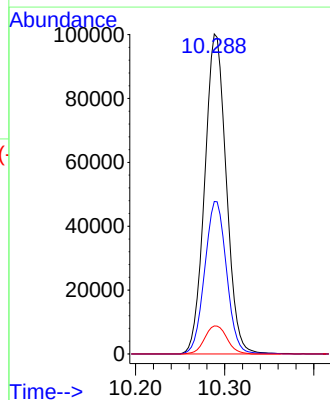
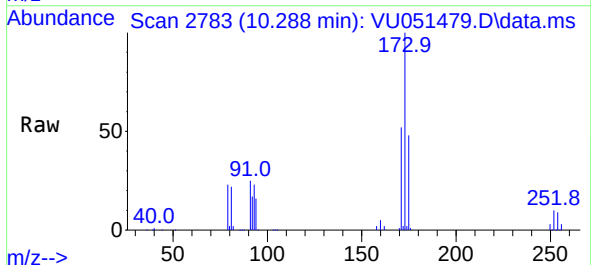
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

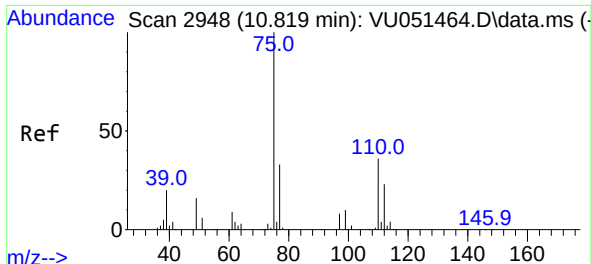
Tgt Ion: 83 Resp: 415793  
Ion Ratio Lower Upper  
83 100  
85 65.5 44.9 83.5  
131 8.8 7.4 11.2



#59  
Bromoform  
Concen: 44.754 ug/L  
RT: 10.288 min Scan# 2783  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion:173 Resp: 168297  
Ion Ratio Lower Upper  
173 100  
175 48.2 38.4 57.6  
254 9.1 7.8 11.6

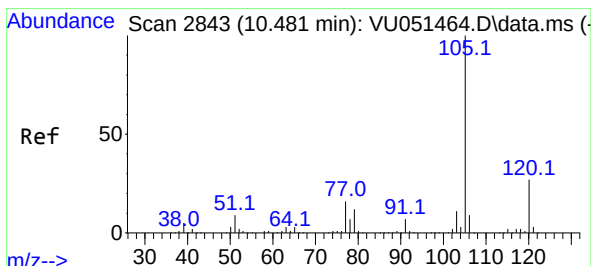
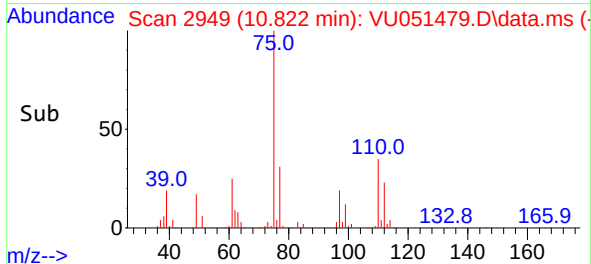
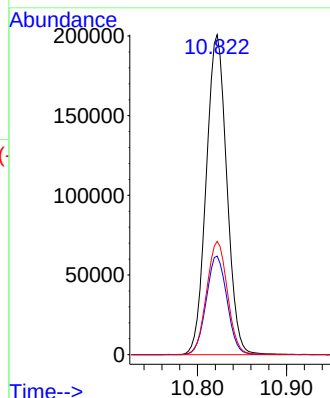
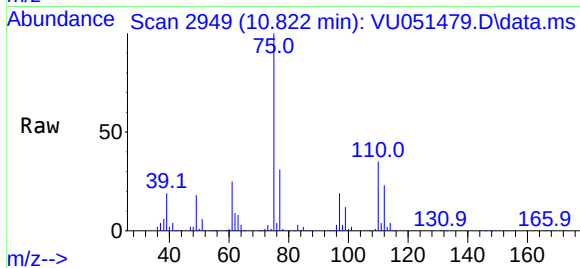




#60  
1,2,3-Trichloropropane  
Concen: 46.031 ug/L  
RT: 10.822 min Scan# 2948  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

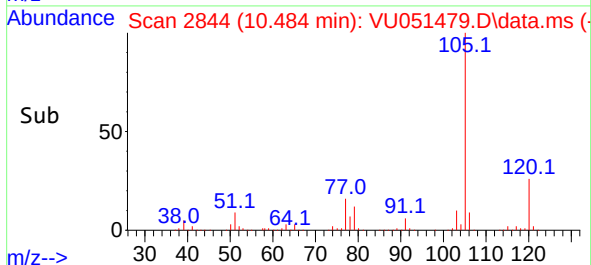
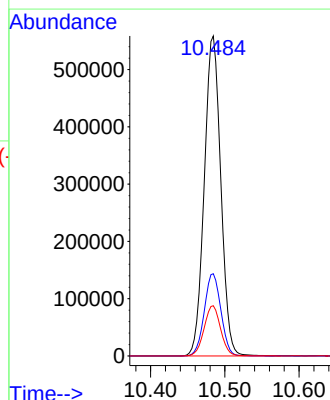
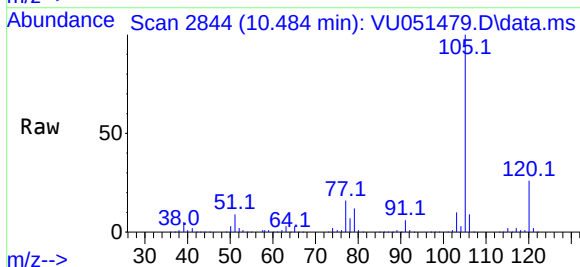
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

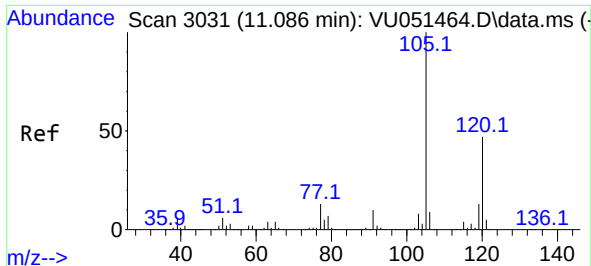
Tgt Ion: 75 Resp: 322081  
Ion Ratio Lower Upper  
75 100  
77 31.2 26.1 39.1  
110 35.9 28.7 43.1



#61  
Isopropylbenzene  
Concen: 50.798 ug/L  
RT: 10.484 min Scan# 2844  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion: 105 Resp: 861317  
Ion Ratio Lower Upper  
105 100  
120 25.8 21.1 31.7  
77 15.7 12.6 19.0

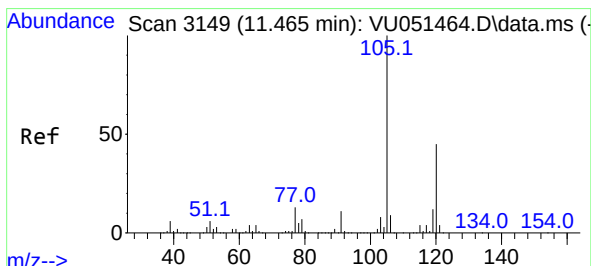
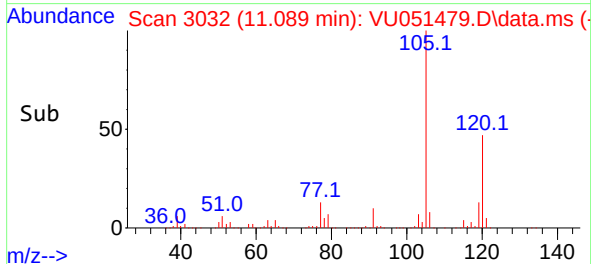
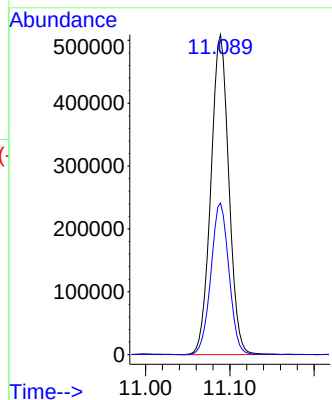
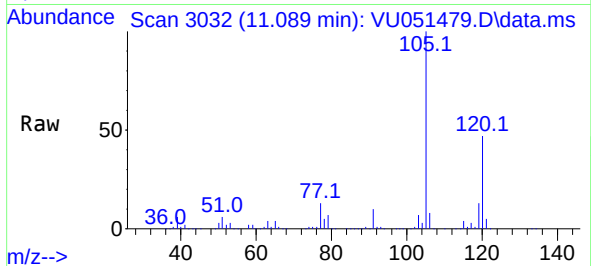




#62  
1,3,5-Trimethylbenzene  
Concen: 52.359 ug/L  
RT: 11.089 min Scan# 3031  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

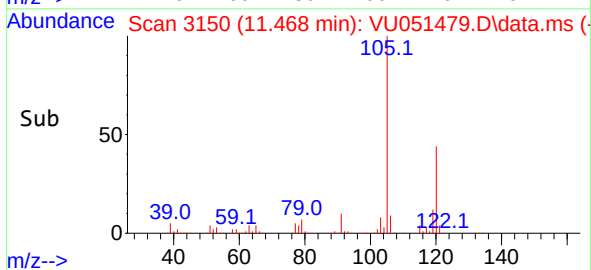
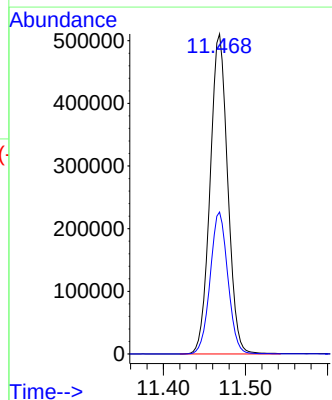
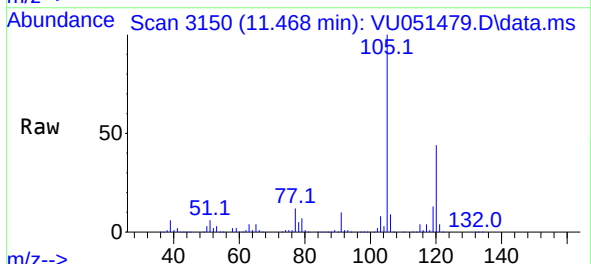
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

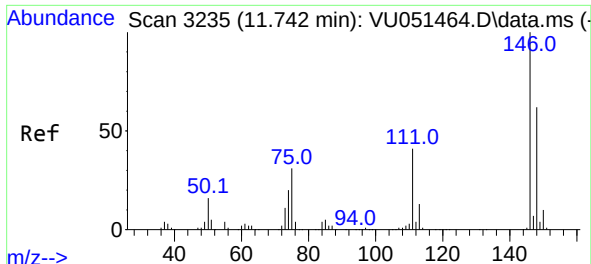
Tgt Ion:105 Resp: 754148  
Ion Ratio Lower Upper  
105 100  
120 47.7 38.3 57.5



#63  
1,2,4-Trimethylbenzene  
Concen: 53.678 ug/L  
RT: 11.468 min Scan# 3150  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion:105 Resp: 761299  
Ion Ratio Lower Upper  
105 100  
120 44.5 35.4 53.0

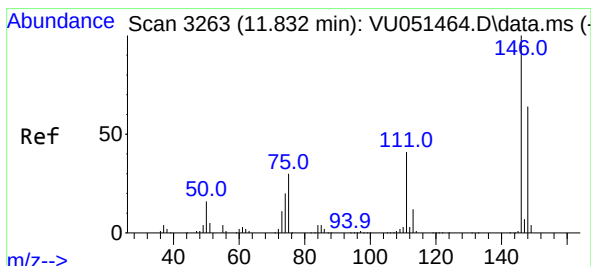
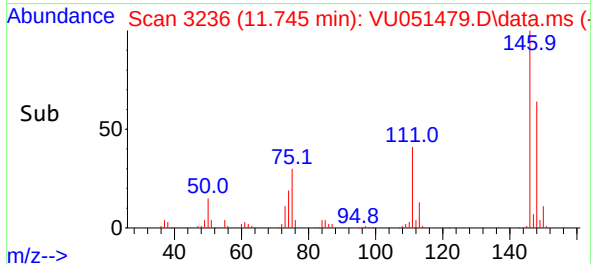
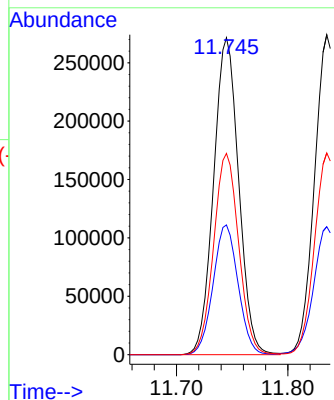
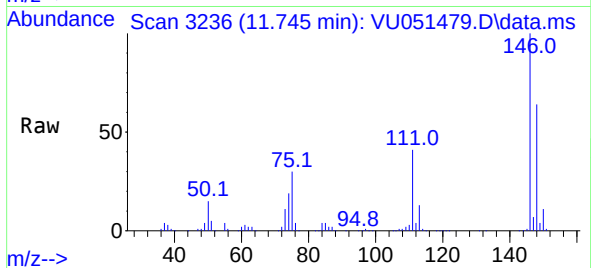




#64  
1,3-Dichlorobenzene  
Concen: 49.097 ug/L  
RT: 11.745 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

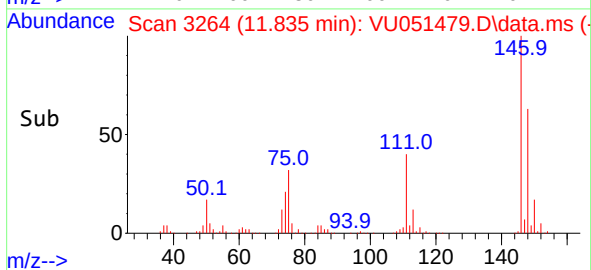
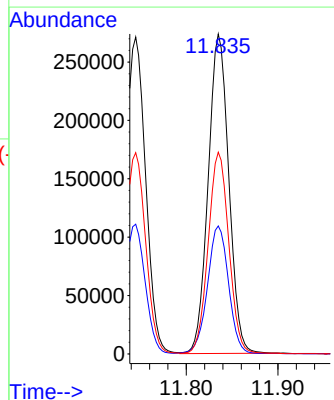
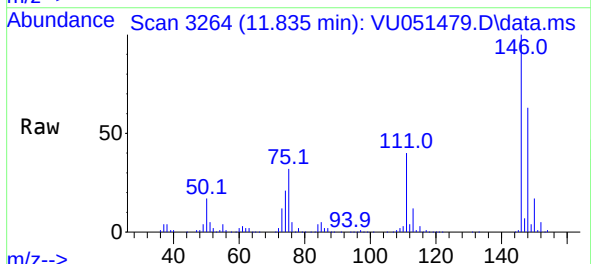
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

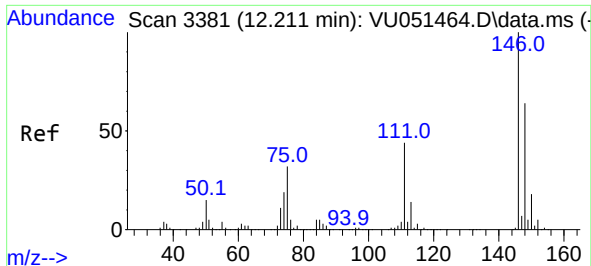
Tgt Ion:146 Resp: 424940  
Ion Ratio Lower Upper  
146 100  
111 40.9 28.7 53.3  
148 63.5 43.2 80.2



#65  
1,4-Dichlorobenzene  
Concen: 48.000 ug/L  
RT: 11.835 min Scan# 3264  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion:146 Resp: 427243  
Ion Ratio Lower Upper  
146 100  
111 40.0 28.9 53.7  
148 63.1 44.6 82.8





#67

1,2-Dichlorobenzene

Concen: 48.145 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. 0.000 min

Lab File: VU051479.D

Acq: 21 Oct 2022 10:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050114

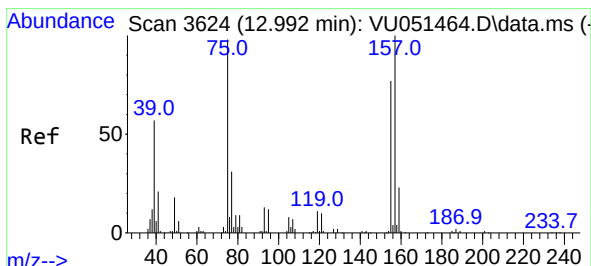
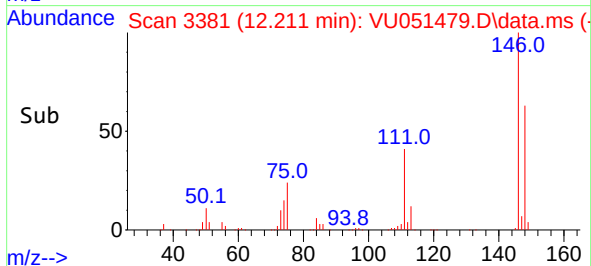
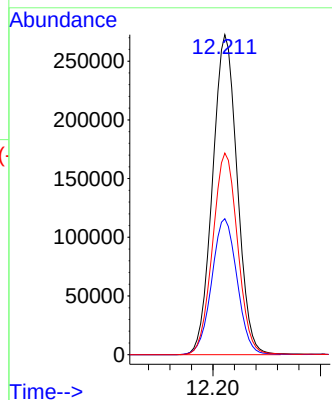
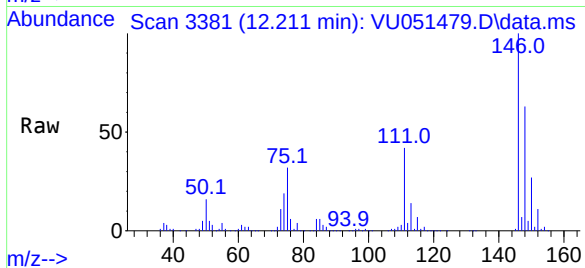
Tgt Ion:146 Resp: 434065

Ion Ratio Lower Upper

146 100

111 42.5 35.3 52.9

148 63.0 51.1 76.7



#68

1,2-Dibromo-3-chloropropane

Concen: 44.468 ug/L

RT: 12.992 min Scan# 3624

Delta R.T. 0.000 min

Lab File: VU051479.D

Acq: 21 Oct 2022 10:50

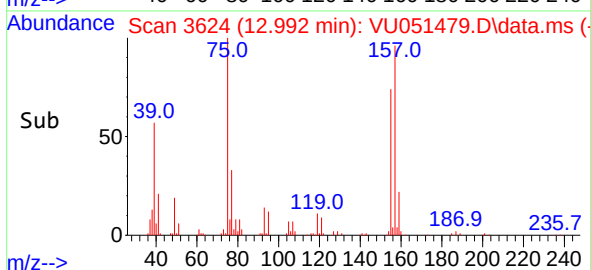
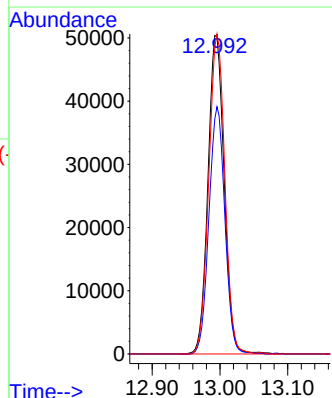
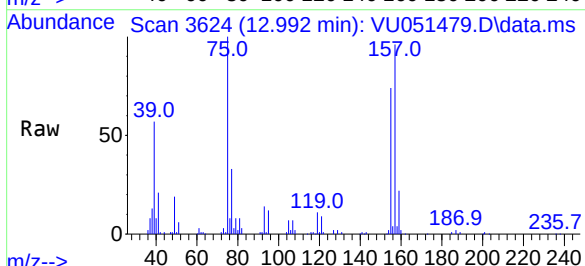
Tgt Ion: 75 Resp: 83978

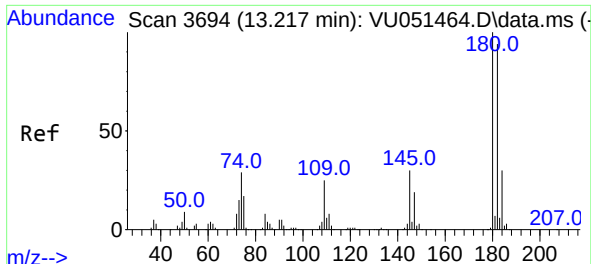
Ion Ratio Lower Upper

75 100

155 73.7 62.5 93.7

157 96.3 81.6 122.4



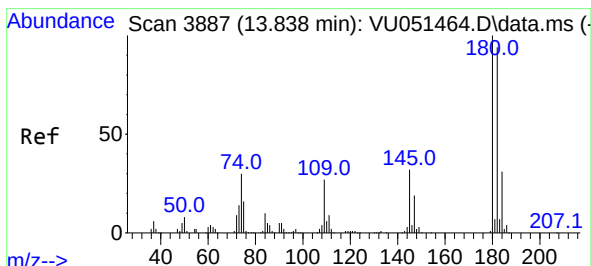
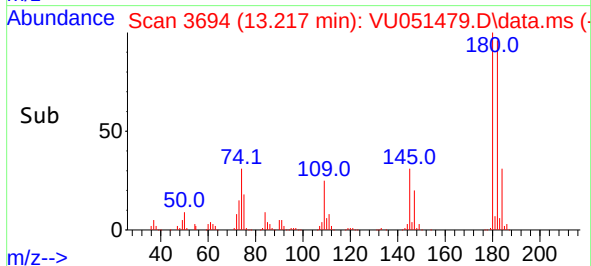
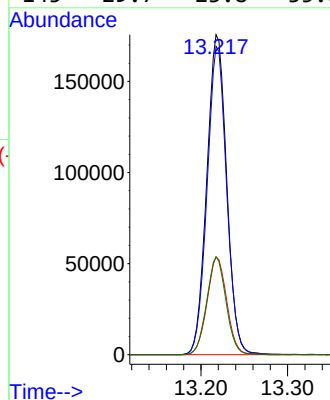
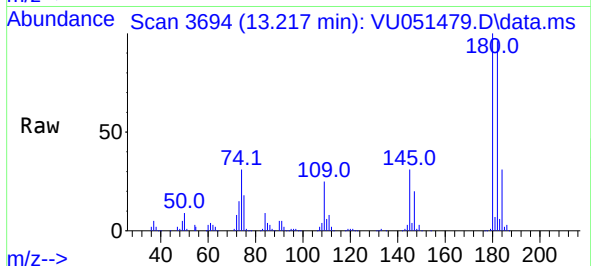


#69  
 1,3,5-Trichlorobenzene  
 Concen: 48.314 ug/L  
 RT: 13.217 min Scan# 30  
 Delta R.T. 0.000 min  
 Lab File: VU051479.D  
 Acq: 21 Oct 2022 10:50

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050114

Tgt Ion:180 Resp: 280514

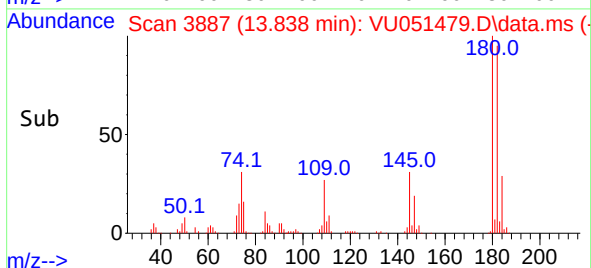
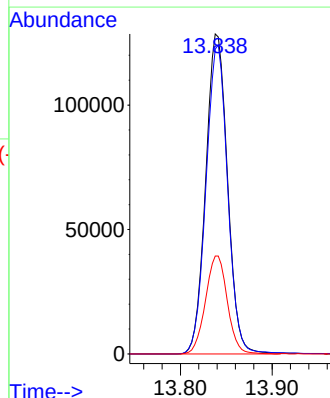
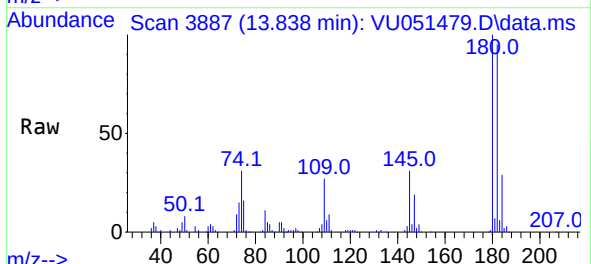
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.6  | 75.6  | 113.4 |
| 184 | 30.2  | 23.9  | 35.9  |
| 145 | 29.7  | 23.8  | 35.8  |

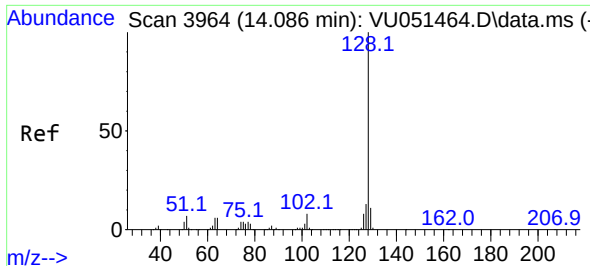


#70  
 1,2,4-trichlorobenzene  
 Concen: 47.451 ug/L  
 RT: 13.838 min Scan# 3887  
 Delta R.T. 0.000 min  
 Lab File: VU051479.D  
 Acq: 21 Oct 2022 10:50

Tgt Ion:180 Resp: 212113

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 95.9  | 76.2  | 114.4 |
| 145 | 30.7  | 25.0  | 37.6  |

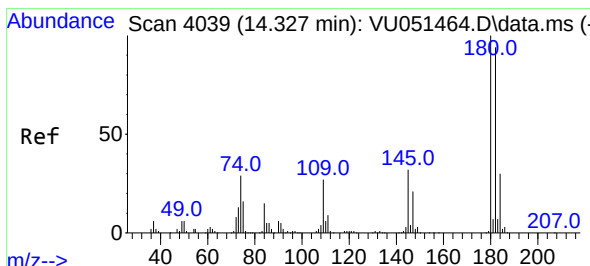
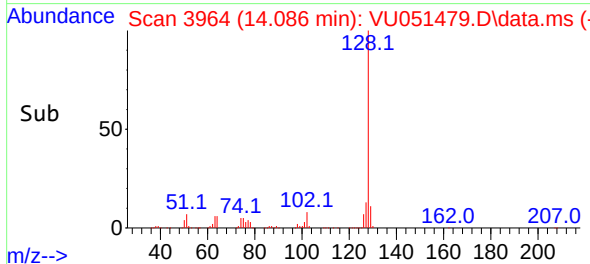
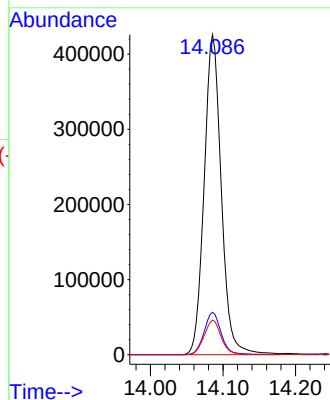
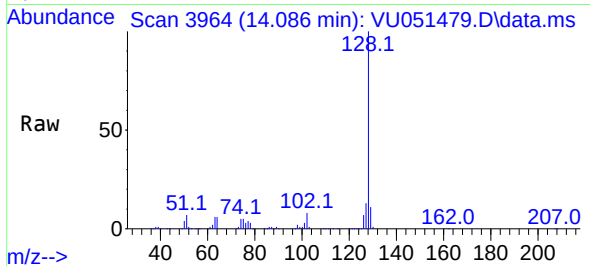




#71  
Naphthalene  
Concen: 48.910 ug/L  
RT: 14.086 min Scan# 3964  
Delta R.T. 0.000 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050114

Tgt Ion:128 Resp: 699764  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.5 15.7  
129 10.7 8.6 13.0



#72  
1,2,3-Trichlorobenzene  
Concen: 50.289 ug/L  
RT: 14.330 min Scan# 4040  
Delta R.T. 0.003 min  
Lab File: VU051479.D  
Acq: 21 Oct 2022 10:50

Tgt Ion:180 Resp: 241310  
Ion Ratio Lower Upper  
180 100  
182 94.6 75.4 113.2  
145 32.7 25.3 37.9

