

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU021023\  
 Data File : VU053030.D  
 Acq On : 10 Feb 2023 11:21  
 Operator : JC/MD  
 Sample : VSTD001008  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD001008

Quant Time: Feb 10 23:02:41 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR021023WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Feb 10 23:01:28 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Difluorobenzene        | 6.244  | 114  | 124350   | 5.000 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414  | 117  | 109610   | 5.000 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152  | 51684    | 5.000 | ug/L   | 0.00     |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 4) Vinyl Chloride-d3          | 1.595  | 65   | 6119     | 1.027 | ug/L   | 0.00     |
| 7) Chloroethane-d5            | 1.913  | 69   | 5207     | 0.930 | ug/L   | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.566  | 65   | 2678     | 0.980 | ug/L   | 0.00     |
| 20) 2-Butanone-d5             | 4.659  | 46   | 7695     | 4.218 | ug/L   | 0.02     |
| 24) Chloroform-d              | 5.058  | 84   | 13362    | 0.975 | ug/L   | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.701  | 65   | 6548     | 0.948 | ug/L   | 0.00     |
| 32) Benzene-d6                | 5.723  | 84   | 23687    | 0.962 | ug/L   | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 6.688  | 67   | 8203     | 0.956 | ug/L   | 0.00     |
| 41) Toluene-d8                | 7.897  | 98   | 20833    | 0.936 | ug/L   | 0.00     |
| 43) trans-1,3-Dichloroprop... | 8.180  | 79   | 3512     | 1.011 | ug/L   | 0.00     |
| 46) 2-Hexanone-d5             | 8.633  | 63   | 14764    | 9.575 | ug/L   | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.752 | 84   | 7265     | 0.986 | ug/L   | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 12.189 | 152  | 7411     | 0.960 | ug/L   | 0.00     |
| Target Compounds              |        |      |          |       |        |          |
|                               |        |      |          |       |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.383  | 85   | 8467     | 0.927 | ug/L   | 100      |
| 3) Chloromethane              | 1.518  | 50   | 9268     | 0.974 | ug/L   | 99       |
| 5) Vinyl chloride             | 1.601  | 62   | 10019    | 0.956 | ug/L   | 100      |
| 6) Bromomethane               | 1.859  | 94   | 5796     | 0.889 | ug/L   | 93       |
| 8) Chloroethane               | 1.932  | 64   | 5739     | 0.930 | ug/L   | 93       |
| 9) Trichlorofluoromethane     | 2.135  | 101  | 13656    | 0.946 | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.579  | 101  | 7640     | 0.961 | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.576  | 96   | 6584     | 0.895 | ug/L # | 88       |
| 13) Acetone                   | 2.678  | 43   | 4325     | 3.284 | ug/L # | 43       |
| 14) Carbon disulfide          | 2.791  | 76   | 20603    | 0.928 | ug/L   | 100      |
| 15) Methyl Acetate            | 2.968  | 43   | 2103     | 0.669 | ug/L # | 83       |
| 16) Methylene chloride        | 3.045  | 84   | 8182     | 0.961 | ug/L   | 95       |
| 17) Methyl tert-butyl Ether   | 3.363  | 73   | 18600    | 0.931 | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 3.350  | 96   | 7345     | 0.944 | ug/L   | 96       |
| 19) 1,1-Dichloroethane        | 3.868  | 63   | 13562    | 0.925 | ug/L   | 96       |
| 21) 2-Butanone                | 4.733  | 43   | 5271     | 2.701 | ug/L # | 51       |
| 22) cis-1,2-Dichloroethene    | 4.669  | 96   | 8332     | 0.948 | ug/L   | 98       |
| 23) Bromochloromethane        | 4.971  | 128  | 3258     | 0.936 | ug/L   | 82       |
| 25) Chloroform                | 5.083  | 83   | 14570    | 0.951 | ug/L   | 98       |
| 27) 1,2-Dichloroethane        | 5.794  | 62   | 8886     | 0.943 | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane     | 5.312  | 97   | 12230    | 0.934 | ug/L   | 98       |
| 30) Cyclohexane               | 5.382  | 56   | 12602    | 0.962 | ug/L   | 99       |
| 31) Carbon tetrachloride      | 5.521  | 117  | 9969     | 0.912 | ug/L   | 98       |
| 33) Benzene                   | 5.772  | 78   | 29224    | 0.925 | ug/L   | 100      |
| 34) Trichloroethene           | 6.540  | 95   | 8429     | 0.948 | ug/L   | 95       |
| 35) Methylcyclohexane         | 6.759  | 83   | 14144    | 0.983 | ug/L   | 95       |
| 37) 1,2-Dichloropropane       | 6.788  | 63   | 8244     | 0.959 | ug/L # | 96       |
| 38) Bromodichloromethane      | 7.103  | 83   | 11125    | 0.998 | ug/L # | 97       |
| 39) cis-1,3-Dichloropropene   | 7.604  | 75   | 12776    | 0.931 | ug/L   | 88       |
| 40) 4-Methyl-2-pentanone      | 7.791  | 43   | 42292    | 9.420 | ug/L   | 99       |
| 42) Toluene                   | 7.968  | 91   | 32101    | 0.936 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 8.209  | 75   | 10589    | 0.936 | ug/L   | 100      |

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 Sample : VSTD001008  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD001008

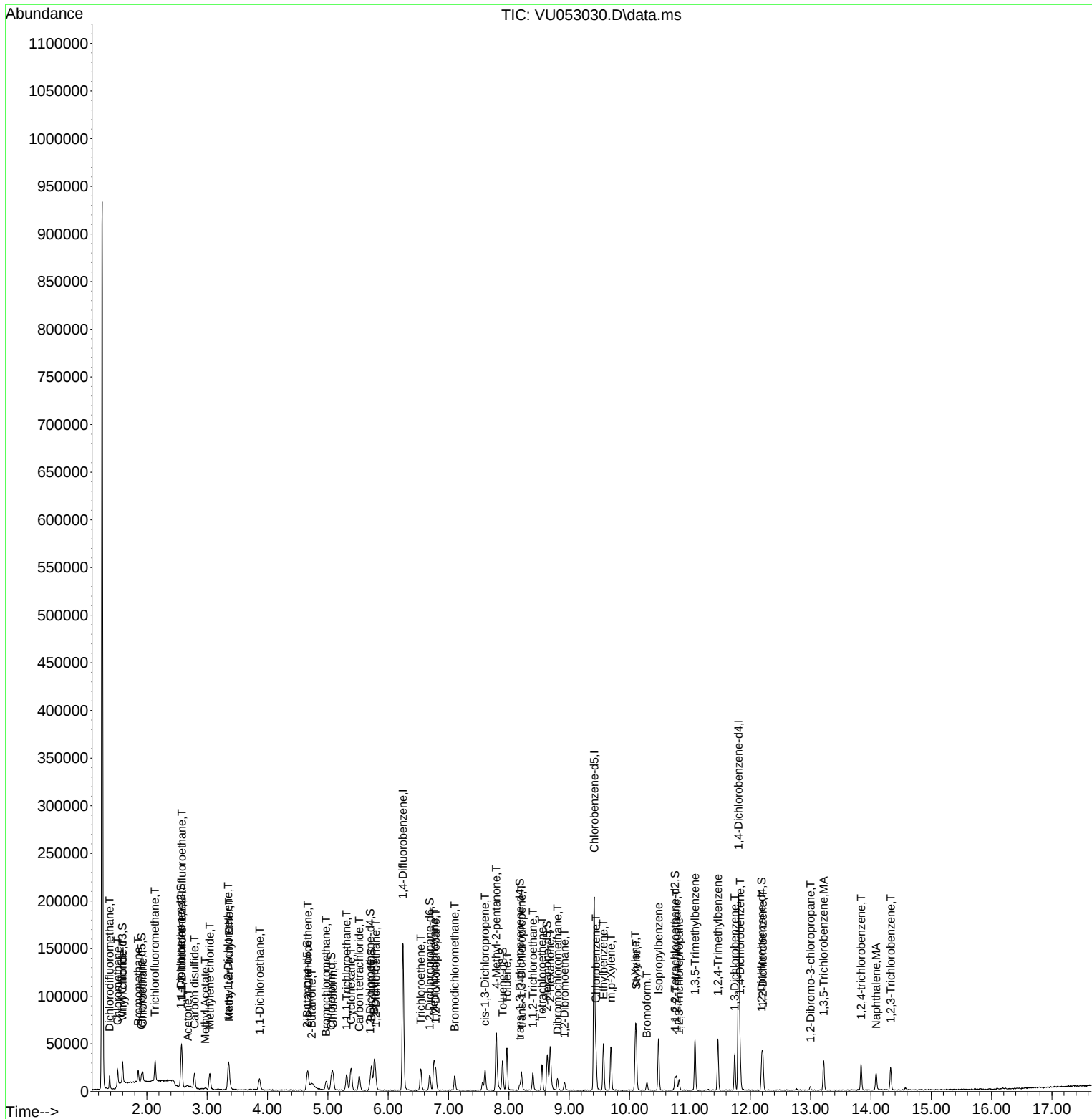
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR021023WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Feb 10 23:01:28 2023  
 Response via : Initial Calibration

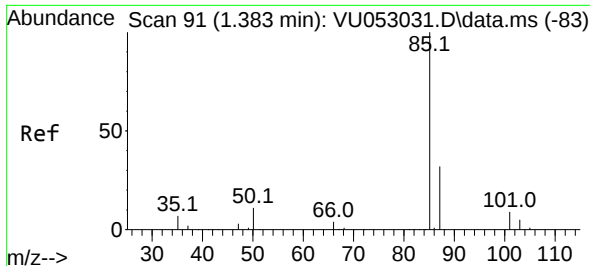
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 5988     | 0.966 | ug/L   | 91       |
| 47) Tetrachloroethene         | 8.550  | 164  | 5325     | 0.922 | ug/L   | 96       |
| 48) 2-Hexanone                | 8.685  | 43   | 29159    | 8.849 | ug/L   | 97       |
| 49) Dibromochloromethane      | 8.807  | 129  | 6237     | 0.923 | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.923  | 107  | 5589     | 0.978 | ug/L # | 92       |
| 51) Chlorobenzene             | 9.443  | 112  | 19576    | 0.915 | ug/L   | 98       |
| 52) Ethylbenzene              | 9.566  | 91   | 36217    | 0.930 | ug/L   | 98       |
| 53) m,p-Xylene                | 9.691  | 106  | 13039    | 0.896 | ug/L   | 89       |
| 54) o-Xylene                  | 10.096 | 106  | 13298    | 0.942 | ug/L   | 98       |
| 55) Styrene                   | 10.112 | 104  | 20213    | 0.883 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.781 | 83   | 7526     | 0.960 | ug/L   | 97       |
| 59) Bromoform                 | 10.286 | 173  | 3458     | 0.920 | ug/L   | 91       |
| 60) Isopropylbenzene          | 10.482 | 105  | 34852    | 0.932 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.820 | 75   | 4731     | 0.953 | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 11.083 | 105  | 30012    | 0.950 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.466 | 105  | 29388    | 0.930 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 13876    | 0.916 | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 14473    | 0.954 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 12.209 | 146  | 13116    | 0.929 | ug/L   | 94       |
| 68) 1,2-Dibromo-3-chloropr... | 13.000 | 75   | 997      | 0.855 | ug/L # | 84       |
| 69) 1,3,5-Trichlorobenzene    | 13.215 | 180  | 9639     | 0.894 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 7789     | 0.870 | ug/L   | 96       |
| 71) Naphthalene               | 14.086 | 128  | 15851    | 0.883 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 6736     | 0.852 | ug/L   | 97       |
| -----                         |        |      |          |       |        |          |

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

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
VSTD001008

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QLast Update : Fri Feb 10 23:01:28 2023  
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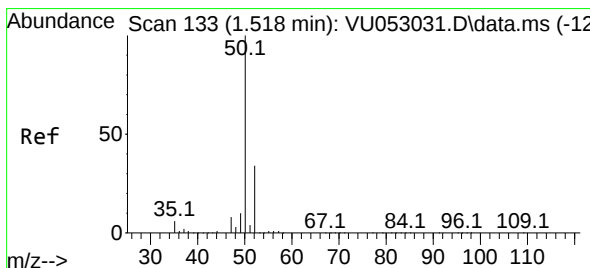
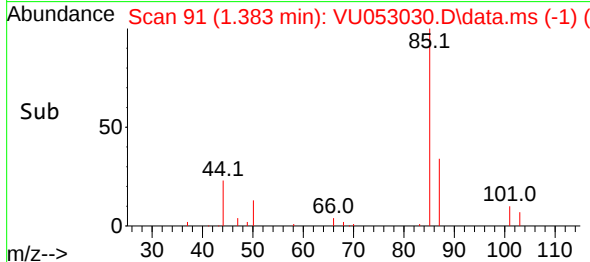
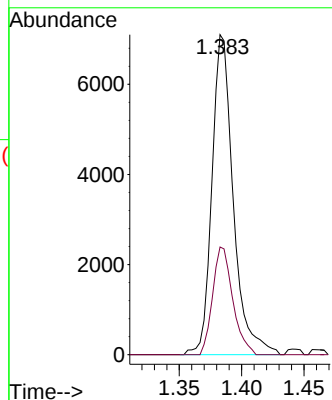
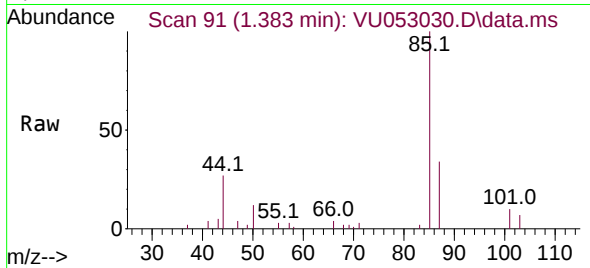




#2  
 Dichlorodifluoromethane  
 Concen: 0.927 ug/L  
 RT: 1.383 min Scan# 91  
 Delta R.T. -0.000 min  
 Lab File: VU053030.D  
 Acq: 10 Feb 2023 11:21

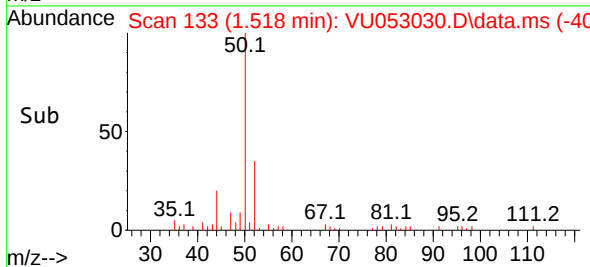
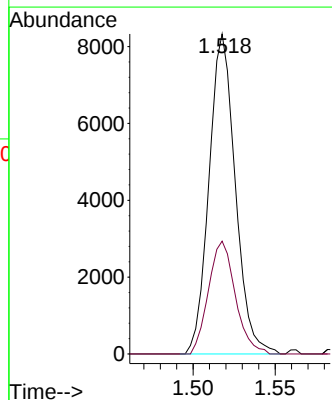
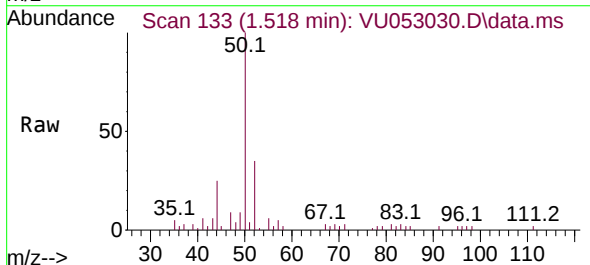
Instrument :  
 MSVOA\_U  
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 VSTD001008

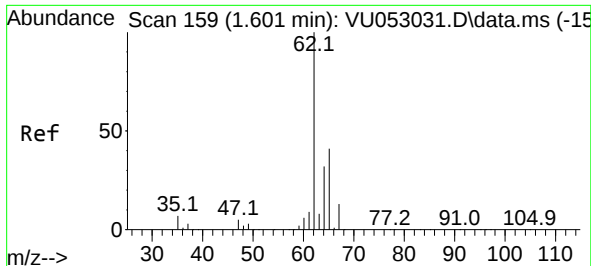
Tgt Ion: 85 Resp: 8467  
 Ion Ratio Lower Upper  
 85 100  
 87 31.7 25.5 38.3



#3  
 Chloromethane  
 Concen: 0.974 ug/L  
 RT: 1.518 min Scan# 133  
 Delta R.T. -0.000 min  
 Lab File: VU053030.D  
 Acq: 10 Feb 2023 11:21

Tgt Ion: 50 Resp: 9268  
 Ion Ratio Lower Upper  
 50 100  
 52 35.3 24.1 44.7

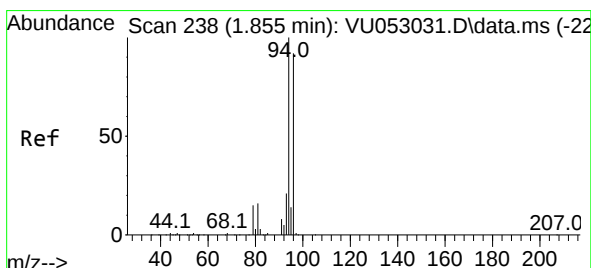
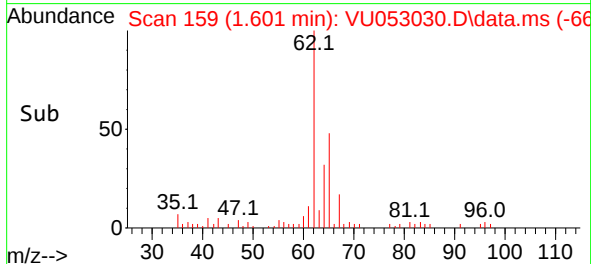
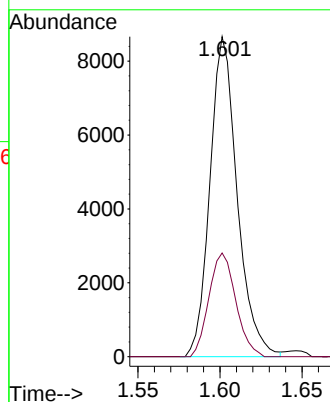
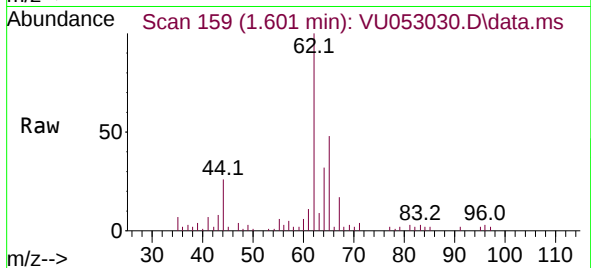




#5  
 Vinyl chloride  
 Concen: 0.956 ug/L  
 RT: 1.601 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VU053030.D  
 Acq: 10 Feb 2023 11:21

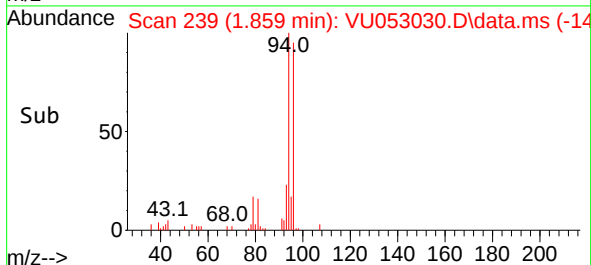
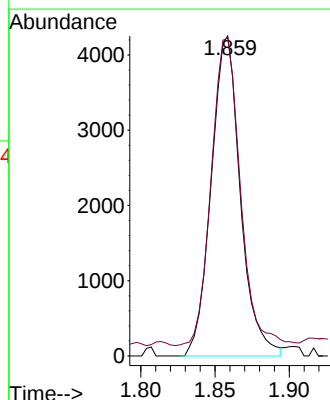
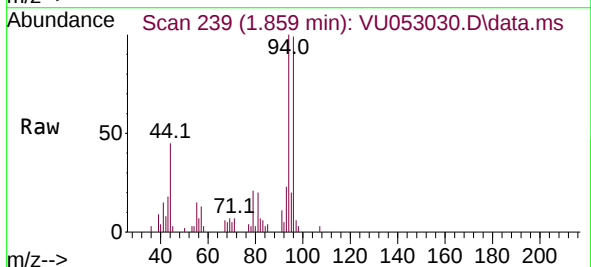
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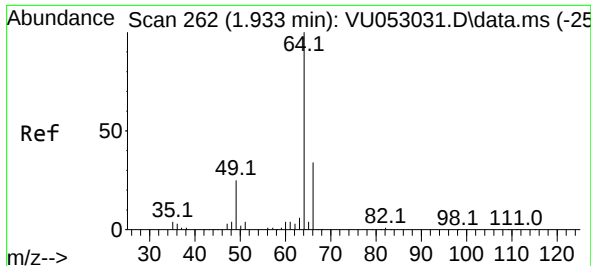
Tgt Ion: 62 Resp: 10019  
 Ion Ratio Lower Upper  
 62 100  
 64 32.4 22.5 41.9



#6  
 Bromomethane  
 Concen: 0.889 ug/L  
 RT: 1.859 min Scan# 239  
 Delta R.T. 0.003 min  
 Lab File: VU053030.D  
 Acq: 10 Feb 2023 11:21

Tgt Ion: 94 Resp: 5796  
 Ion Ratio Lower Upper  
 94 100  
 96 99.5 64.8 120.3

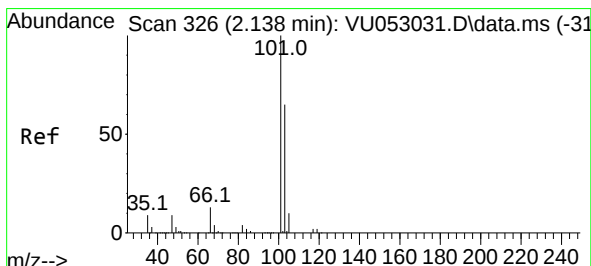
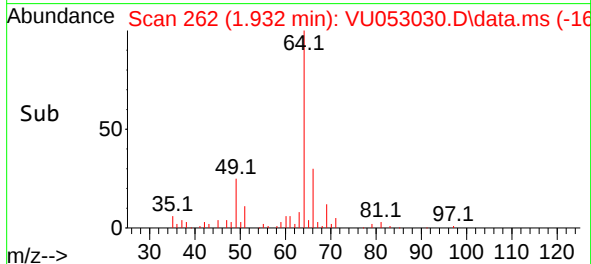
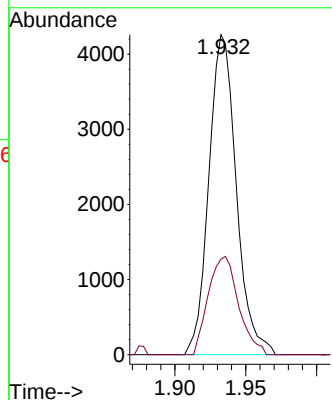
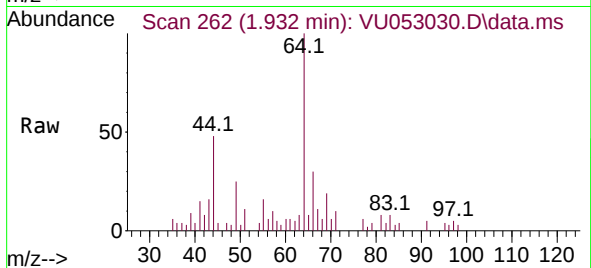




#8  
Chloroethane  
Concen: 0.930 ug/L  
RT: 1.932 min Scan# 2  
Delta R.T. -0.000 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

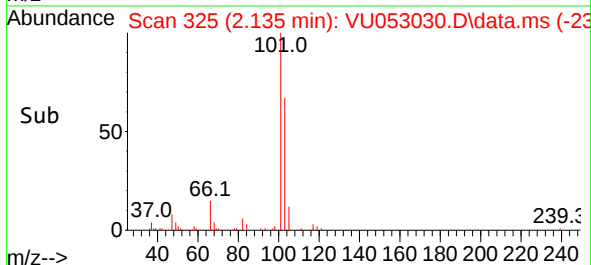
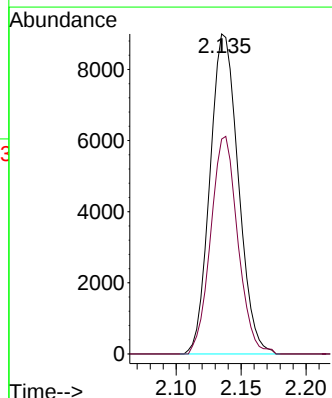
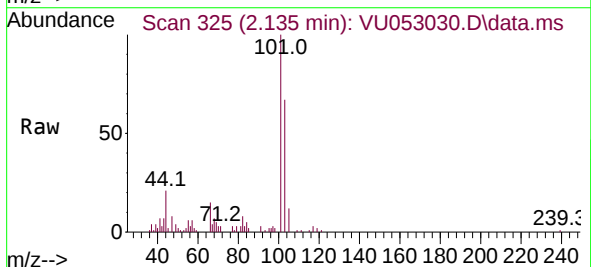
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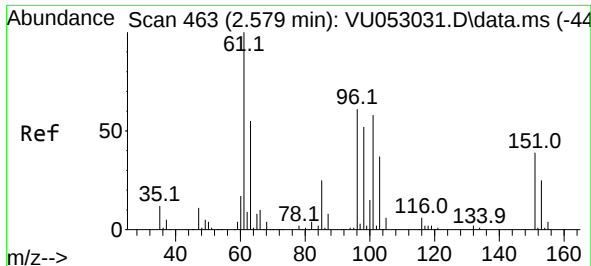
Tgt Ion: 64 Resp: 5739  
Ion Ratio Lower Upper  
64 100  
66 29.9 23.9 44.3



#9  
Trichlorofluoromethane  
Concen: 0.946 ug/L  
RT: 2.135 min Scan# 325  
Delta R.T. -0.003 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

Tgt Ion:101 Resp: 13656  
Ion Ratio Lower Upper  
101 100  
103 64.9 52.6 78.8

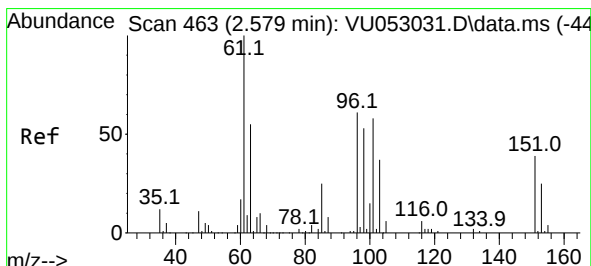
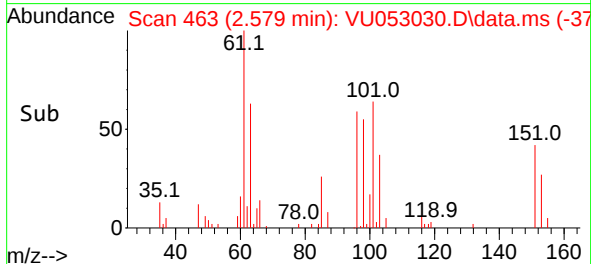
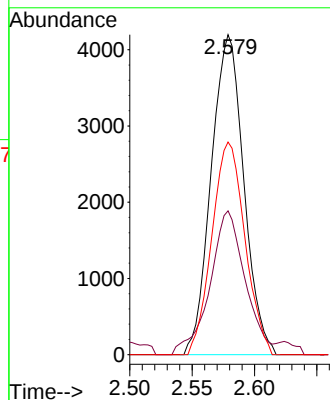
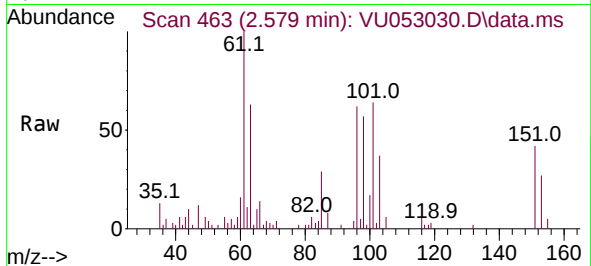




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.961 ug/L  
 RT: 2.579 min Scan# 463  
 Delta R.T. -0.000 min  
 Lab File: VU053030.D  
 Acq: 10 Feb 2023 11:21

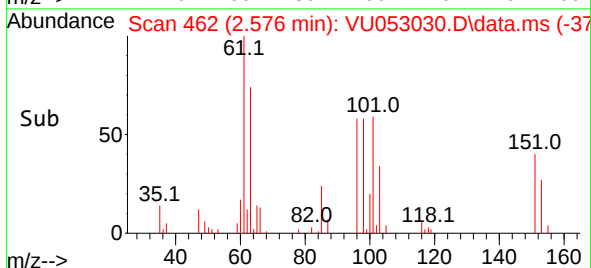
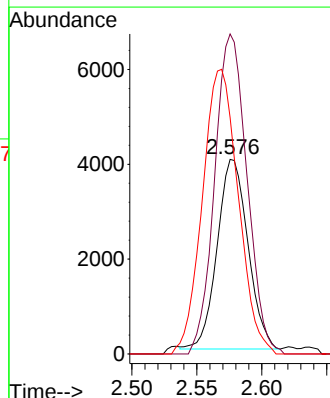
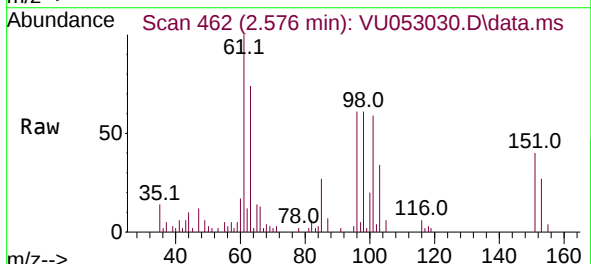
Instrument :  
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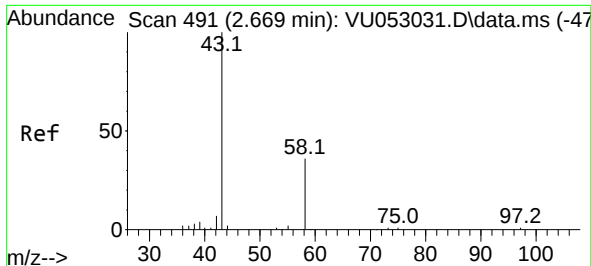
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 Ion Ratio Lower Upper  
 101 100  
 85 48.5 36.8 55.2  
 151 67.4 53.8 80.8



#12  
 1,1-Dichloroethene  
 Concen: 0.895 ug/L  
 RT: 2.576 min Scan# 462  
 Delta R.T. -0.003 min  
 Lab File: VU053030.D  
 Acq: 10 Feb 2023 11:21

Tgt Ion: 96 Resp: 6584  
 Ion Ratio Lower Upper  
 96 100  
 61 164.4 115.1 213.7  
 63 121.4 63.6 118.0#





#13

Acetone

Concen: 3.284 ug/L

RT: 2.678 min Scan# 491

Delta R.T. 0.010 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

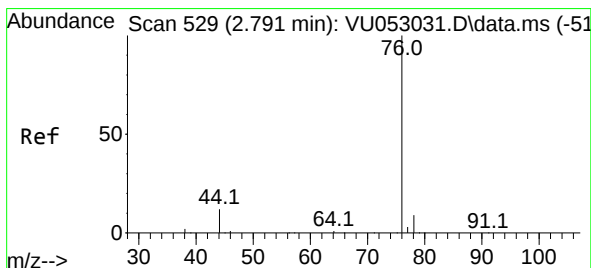
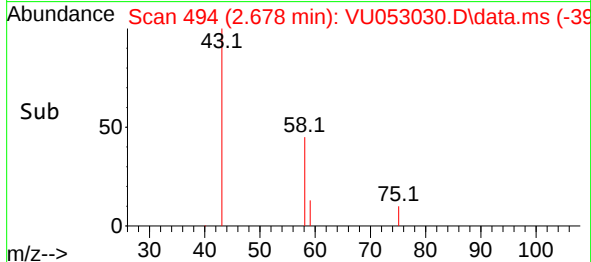
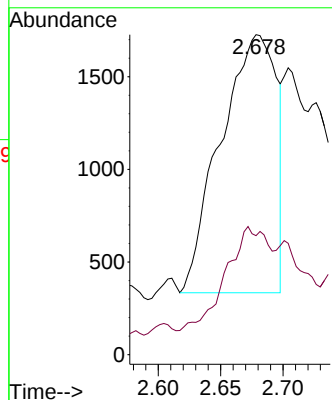
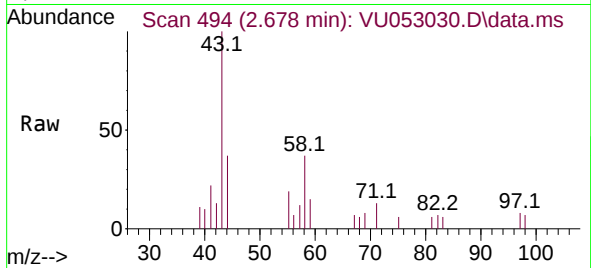
VSTD001008

Tgt Ion: 43 Resp: 4325

Ion Ratio Lower Upper

43 100

58 30.7 0.0 19.6#



#14

Carbon disulfide

Concen: 0.928 ug/L

RT: 2.791 min Scan# 529

Delta R.T. -0.000 min

Lab File: VU053030.D

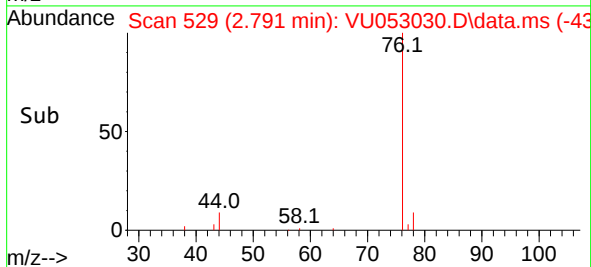
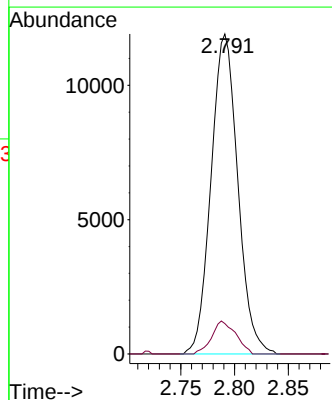
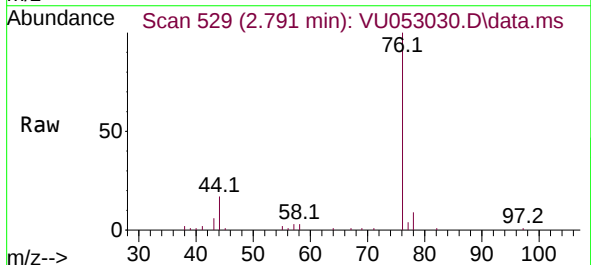
Acq: 10 Feb 2023 11:21

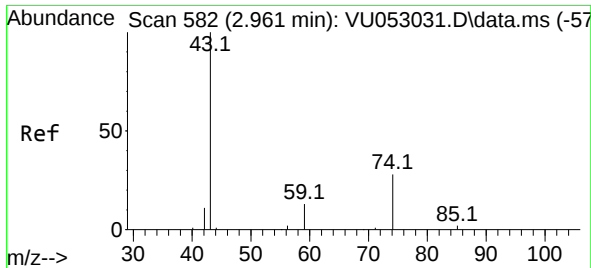
Tgt Ion: 76 Resp: 20603

Ion Ratio Lower Upper

76 100

78 9.5 7.5 11.3

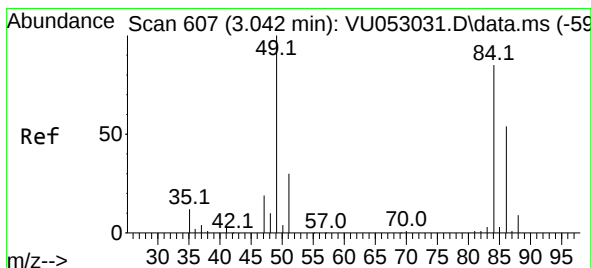
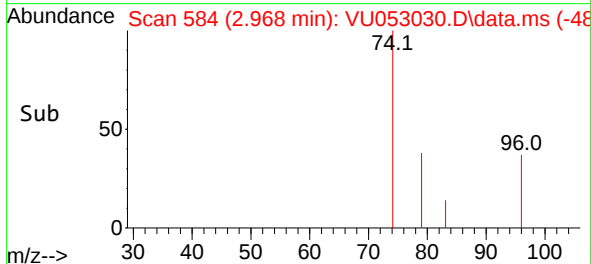
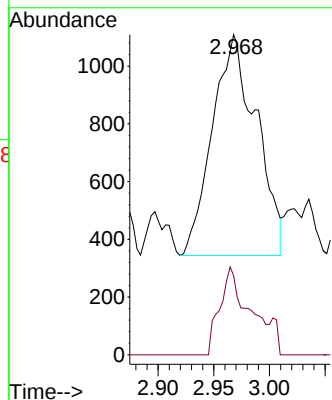
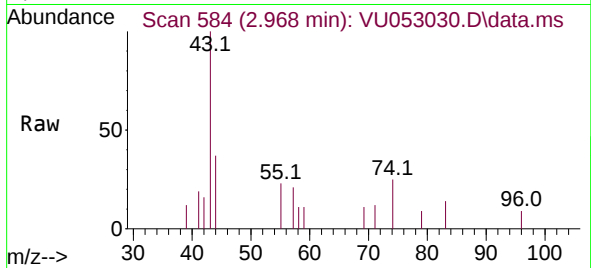




#15  
Methyl Acetate  
Concen: 0.669 ug/L  
RT: 2.968 min Scan# 584  
Delta R.T. 0.006 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

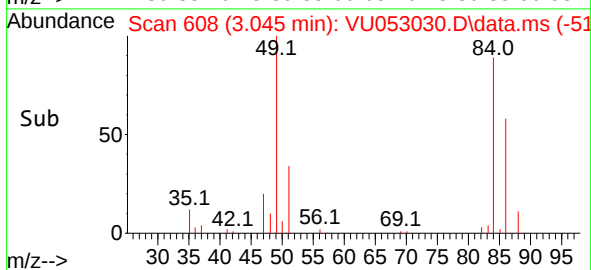
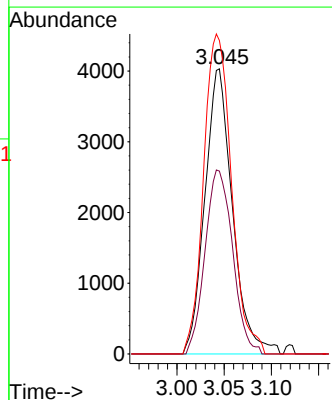
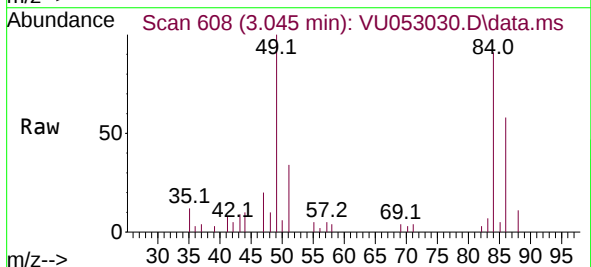
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD001008

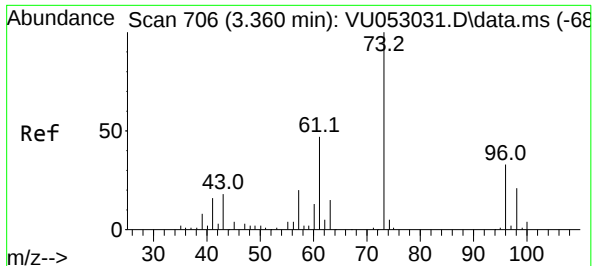
Tgt Ion: 43 Resp: 2103  
Ion Ratio Lower Upper  
43 100  
74 25.4 14.3 21.5#



#16  
Methylene chloride  
Concen: 0.961 ug/L  
RT: 3.045 min Scan# 608  
Delta R.T. 0.003 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

Tgt Ion: 84 Resp: 8182  
Ion Ratio Lower Upper  
84 100  
86 64.2 44.9 83.3  
49 109.9 82.6 153.4





#17

Methyl tert-butyl Ether

Concen: 0.931 ug/L

RT: 3.363 min Scan# 706

Delta R.T. 0.003 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

VSTD001008

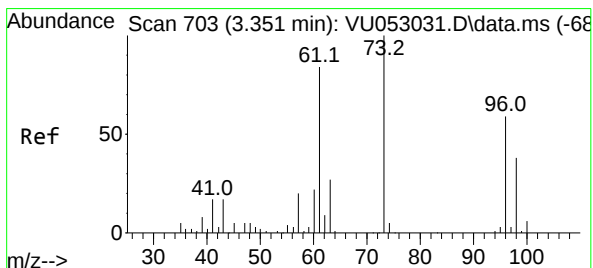
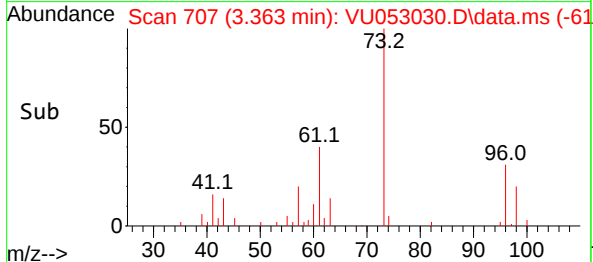
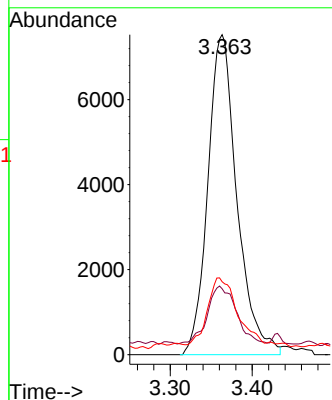
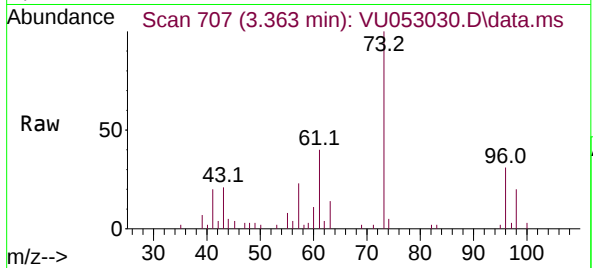
Tgt Ion: 73 Resp: 18600

Ion Ratio Lower Upper

73 100

43 18.6 14.6 21.8

57 21.3 17.1 25.7



#18

trans-1,2-Dichloroethene

Concen: 0.944 ug/L

RT: 3.350 min Scan# 703

Delta R.T. -0.000 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

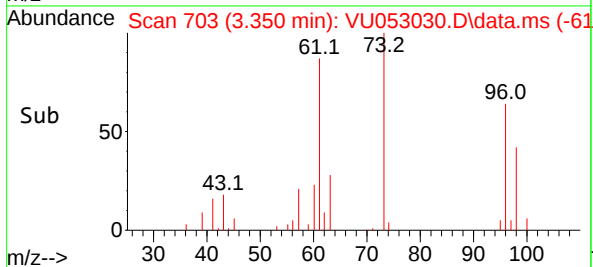
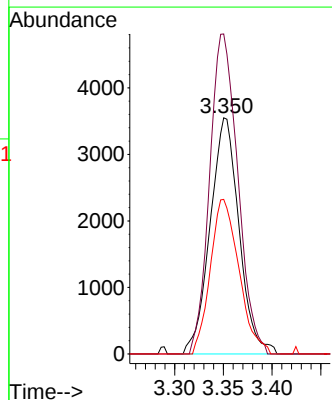
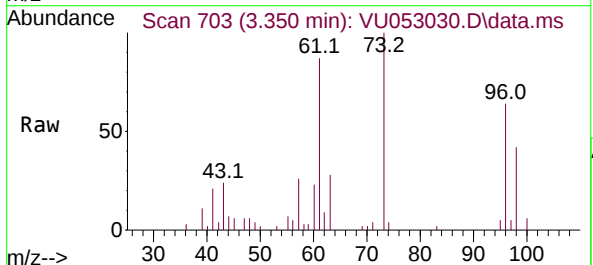
Tgt Ion: 96 Resp: 7345

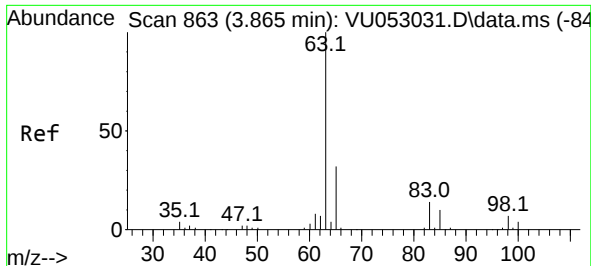
Ion Ratio Lower Upper

96 100

61 135.5 99.5 184.9

98 65.5 44.8 83.2





#19

1,1-Dichloroethane

Concen: 0.925 ug/L

RT: 3.868 min Scan# 864

Delta R.T. 0.003 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

VSTD001008

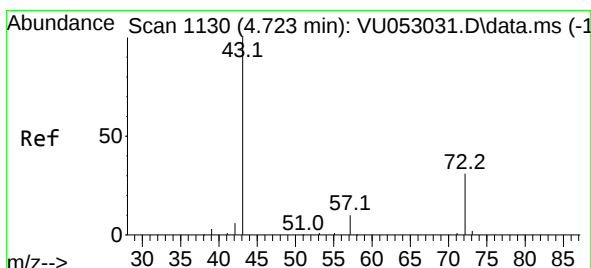
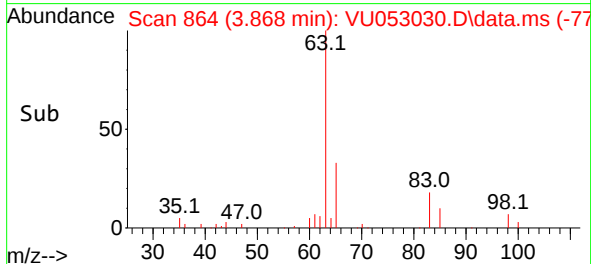
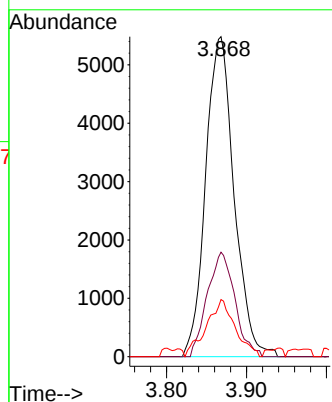
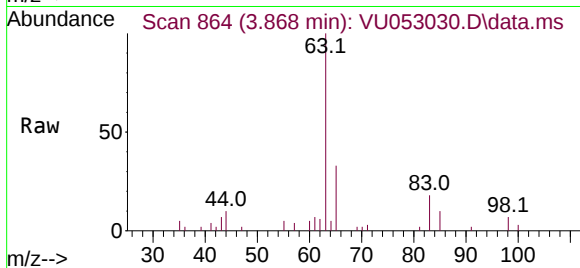
Tgt Ion: 63 Resp: 13562

Ion Ratio Lower Upper

63 100

65 32.6 22.3 41.3

83 17.8 9.8 18.2



#21

2-Butanone

Concen: 2.701 ug/L

RT: 4.733 min Scan# 1133

Delta R.T. 0.010 min

Lab File: VU053030.D

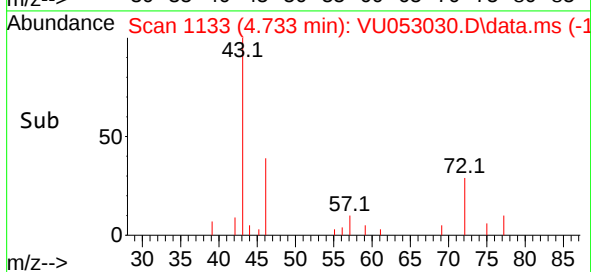
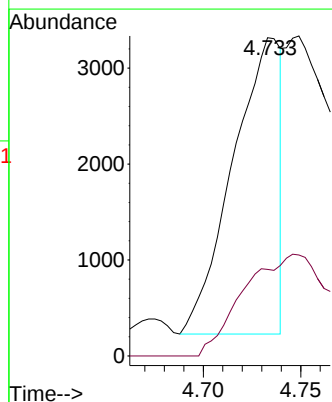
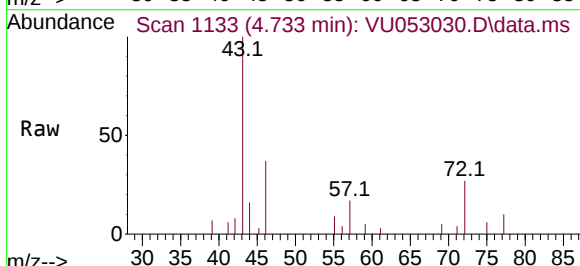
Acq: 10 Feb 2023 11:21

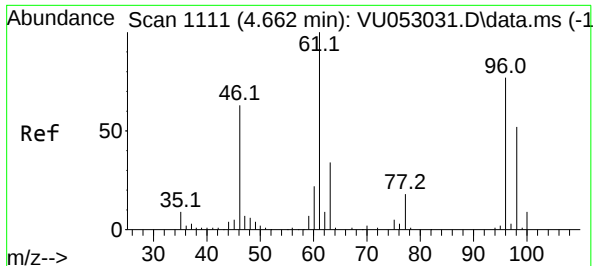
Tgt Ion: 43 Resp: 5271

Ion Ratio Lower Upper

43 100

72 55.2 14.5 43.5#





#22

cis-1,2-Dichloroethene

Concen: 0.948 ug/L

RT: 4.669 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

VSTD001008

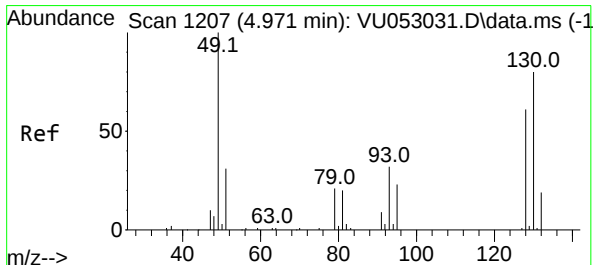
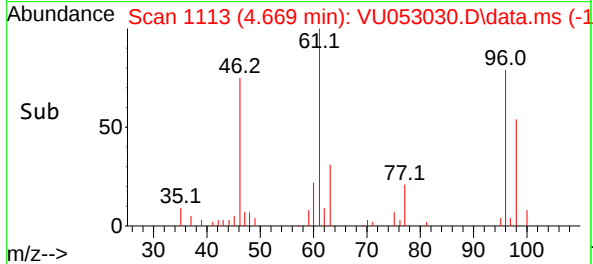
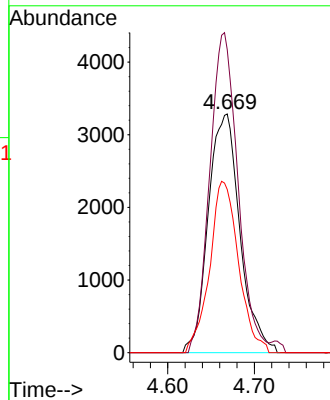
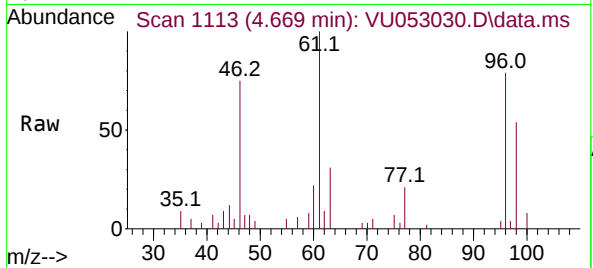
Tgt Ion: 96 Resp: 8332

Ion Ratio Lower Upper

96 100

61 126.9 90.9 168.9

98 68.4 47.0 87.4



#23

Bromochloromethane

Concen: 0.936 ug/L

RT: 4.971 min Scan# 1207

Delta R.T. -0.000 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Tgt Ion: 128 Resp: 3258

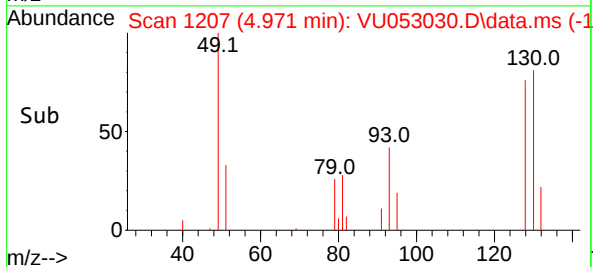
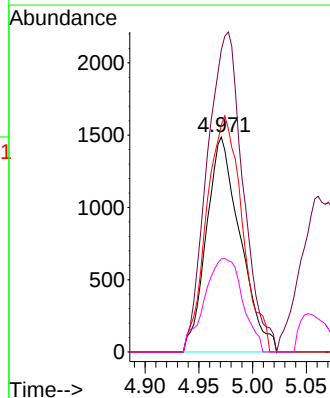
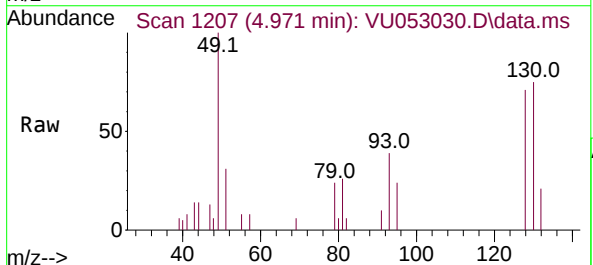
Ion Ratio Lower Upper

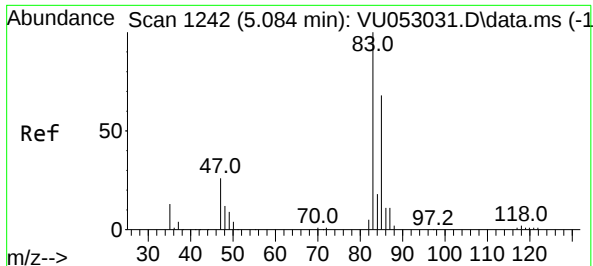
128 100

49 140.5 114.2 212.0

130 105.6 91.6 170.2

51 43.3 39.9 59.9





#25

Chloroform

Concen: 0.951 ug/L

RT: 5.083 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

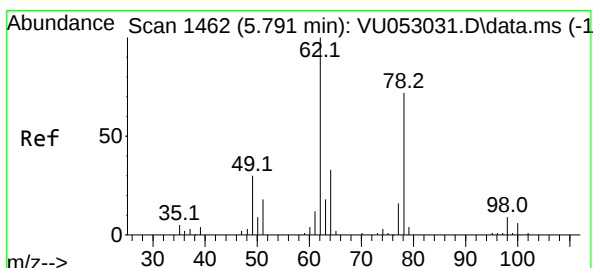
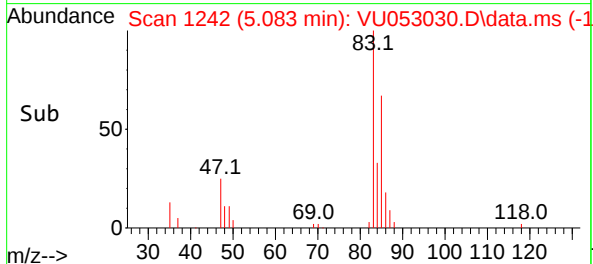
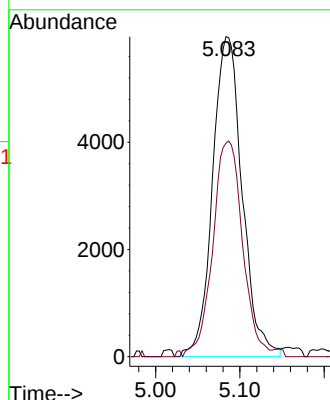
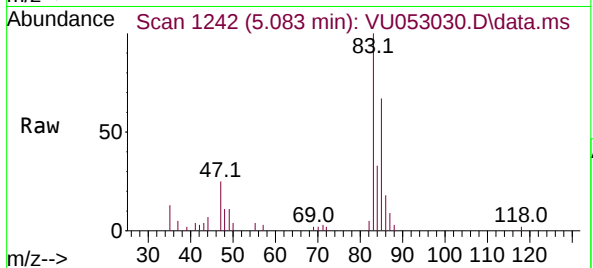
VSTD001008

Tgt Ion: 83 Resp: 14570

Ion Ratio Lower Upper

83 100

85 66.7 47.7 88.5



#27

1,2-Dichloroethane

Concen: 0.943 ug/L

RT: 5.794 min Scan# 1463

Delta R.T. 0.003 min

Lab File: VU053030.D

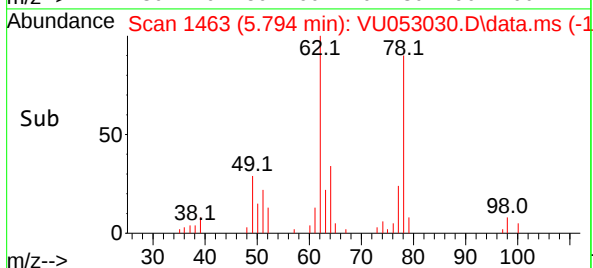
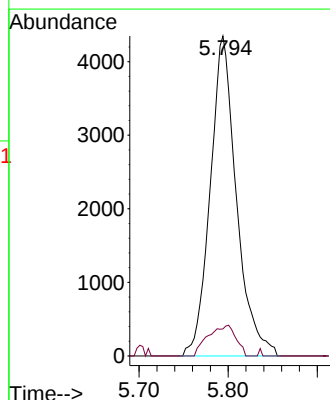
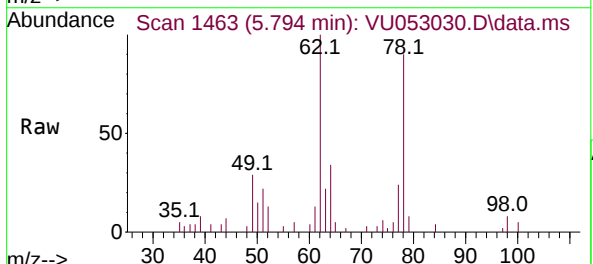
Acq: 10 Feb 2023 11:21

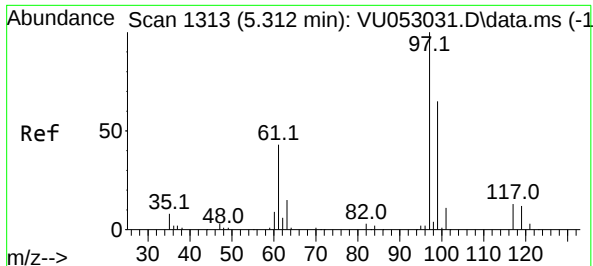
Tgt Ion: 62 Resp: 8886

Ion Ratio Lower Upper

62 100

98 8.5 7.1 10.7





#29

1,1,1-Trichloroethane

Concen: 0.934 ug/L

RT: 5.312 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

VSTD001008

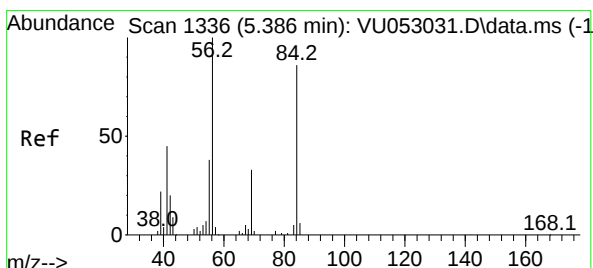
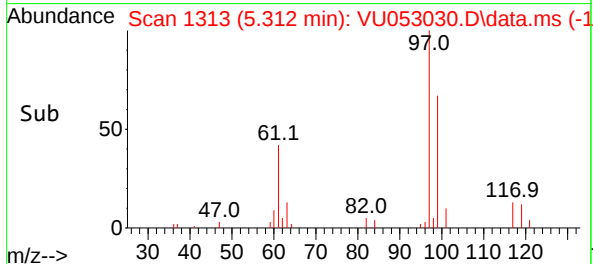
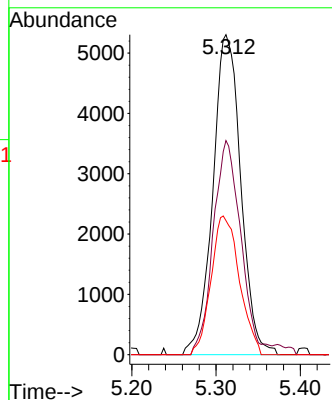
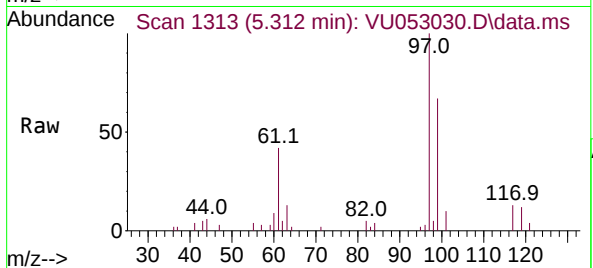
Tgt Ion: 97 Resp: 12230

Ion Ratio Lower Upper

97 100

99 66.1 51.0 76.6

61 43.9 34.2 51.4



#30

Cyclohexane

Concen: 0.962 ug/L

RT: 5.382 min Scan# 1335

Delta R.T. -0.003 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

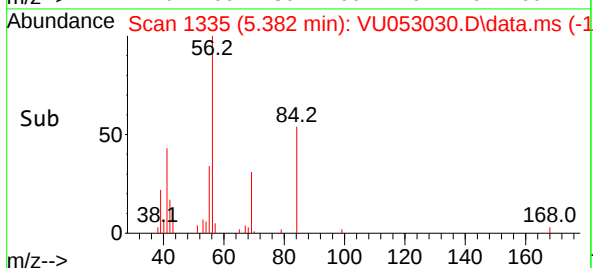
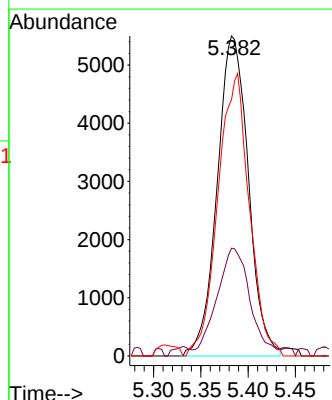
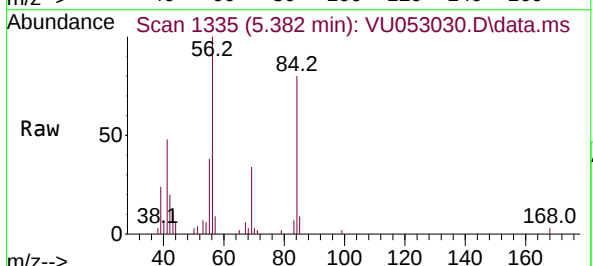
Tgt Ion: 56 Resp: 12602

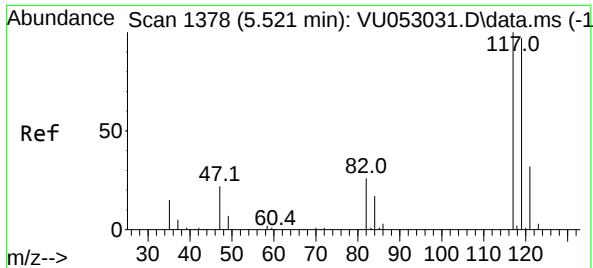
Ion Ratio Lower Upper

56 100

69 36.0 27.0 40.6

84 88.7 70.8 106.2

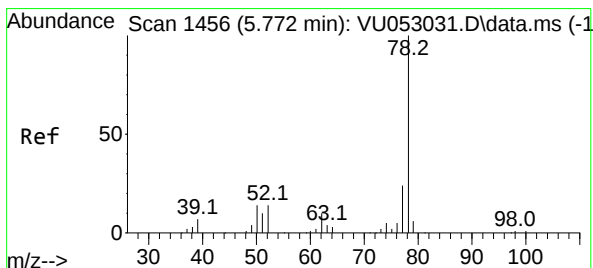
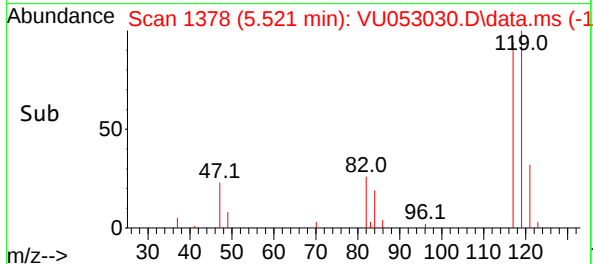
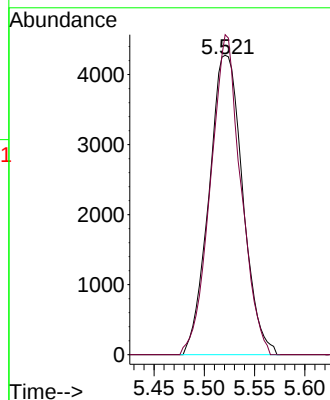
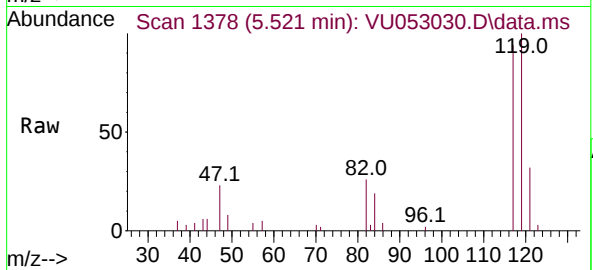




#31  
Carbon tetrachloride  
Concen: 0.912 ug/L  
RT: 5.521 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

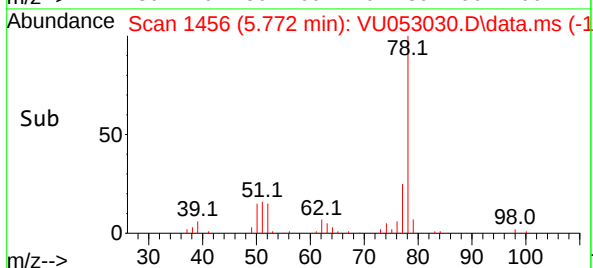
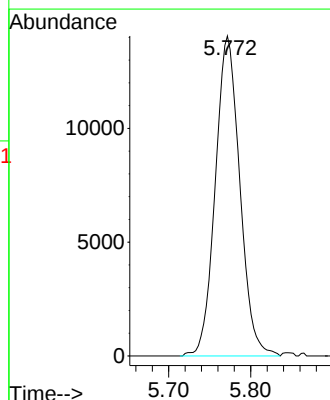
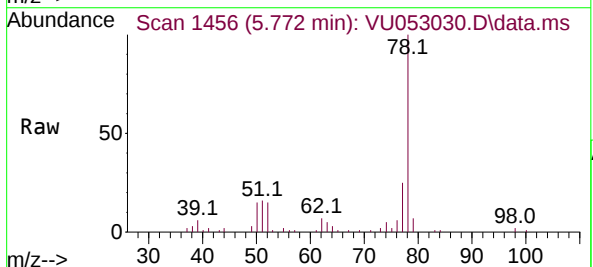
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD001008

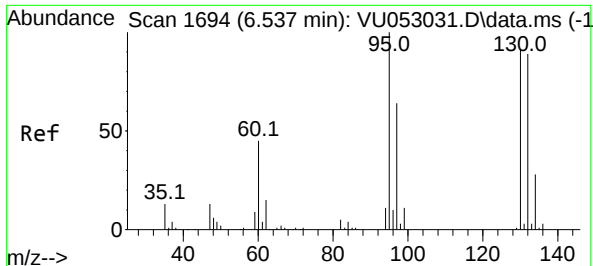
Tgt Ion:117 Resp: 9969  
Ion Ratio Lower Upper  
117 100  
119 96.2 75.4 113.0



#33  
Benzene  
Concen: 0.925 ug/L  
RT: 5.772 min Scan# 1456  
Delta R.T. -0.000 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

Tgt Ion: 78 Resp: 29224



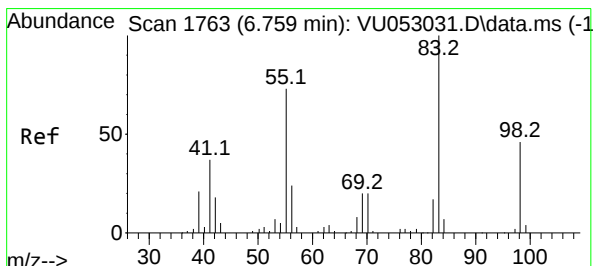
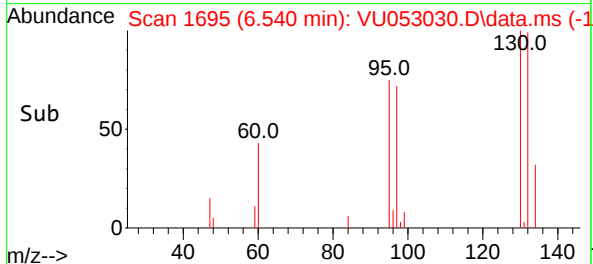
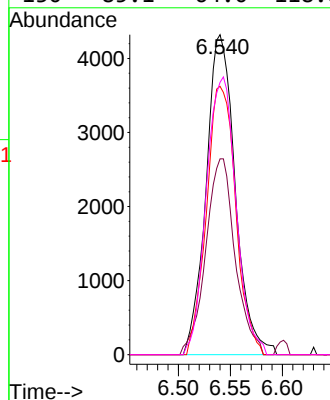
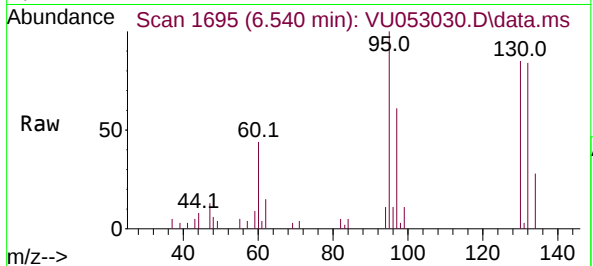


#34  
Trichloroethene  
Concen: 0.948 ug/L  
RT: 6.540 min Scan# 1695  
Delta R.T. 0.003 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD001008

Tgt Ion: 95 Resp: 8429

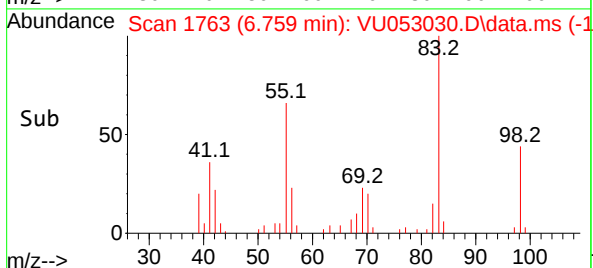
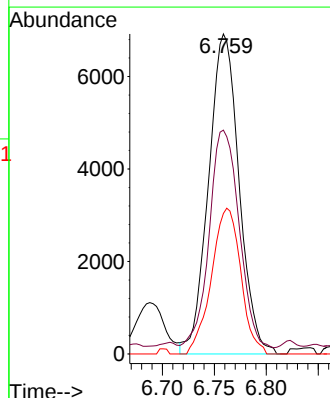
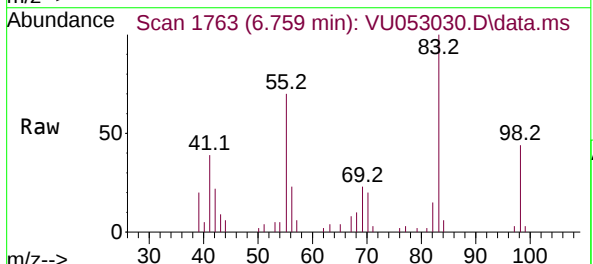
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 61.2  | 44.7  | 82.9  |
| 132 | 83.9  | 62.3  | 115.7 |
| 130 | 85.1  | 64.0  | 118.8 |

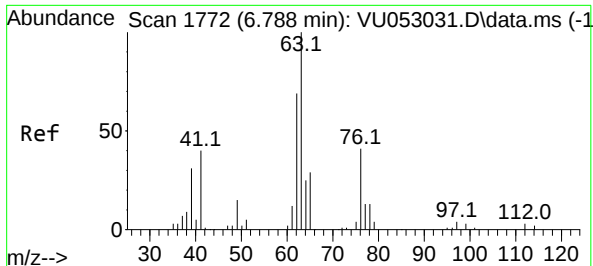


#35  
Methylcyclohexane  
Concen: 0.983 ug/L  
RT: 6.759 min Scan# 1763  
Delta R.T. -0.000 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

Tgt Ion: 83 Resp: 14144

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 66.4  | 57.9  | 86.9  |
| 98  | 43.7  | 36.4  | 54.6  |

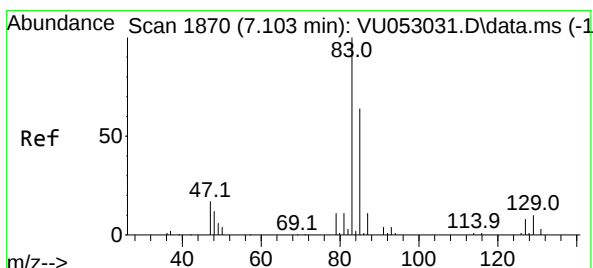
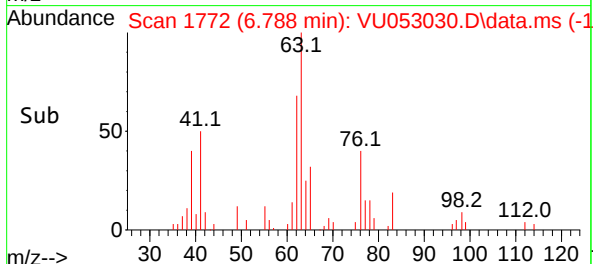
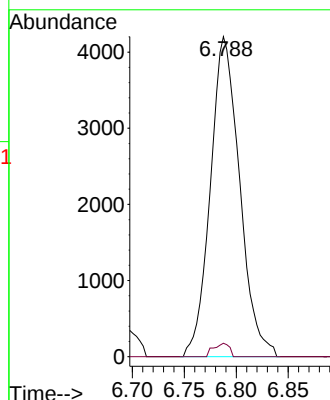
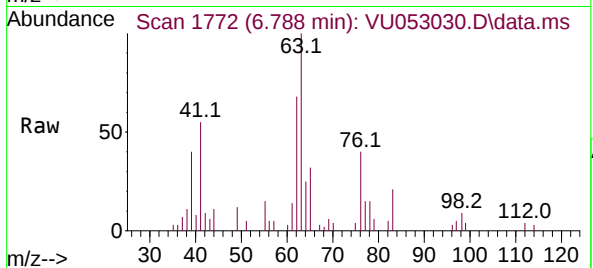




#37  
1,2-Dichloropropane  
Concen: 0.959 ug/L  
RT: 6.788 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

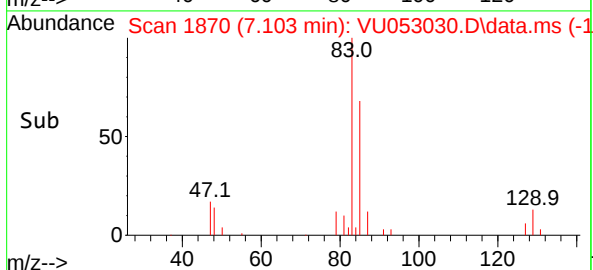
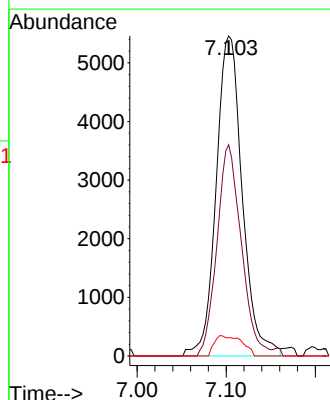
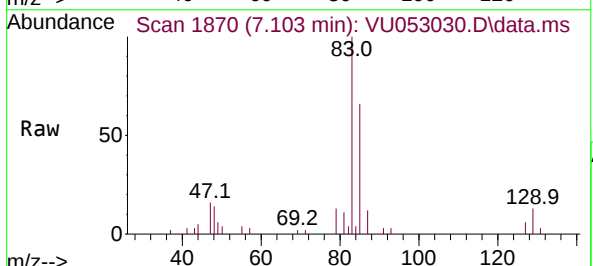
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD001008

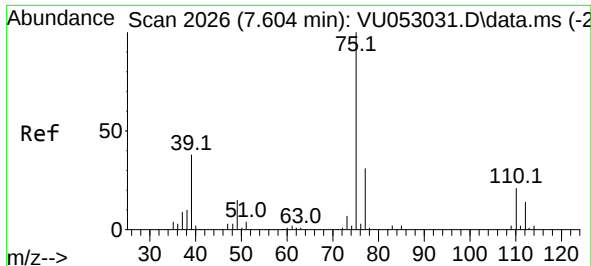
Tgt Ion: 63 Resp: 8244  
Ion Ratio Lower Upper  
63 100  
112 2.2 2.7 4.1#



#38  
Bromodichloromethane  
Concen: 0.998 ug/L  
RT: 7.103 min Scan# 1870  
Delta R.T. -0.000 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

Tgt Ion: 83 Resp: 11125  
Ion Ratio Lower Upper  
83 100  
85 66.0 44.7 82.9  
127 5.7 6.3 9.5#





#39

cis-1,3-Dichloropropene

Concen: 0.931 ug/L

RT: 7.604 min Scan# 2026

Delta R.T. -0.000 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

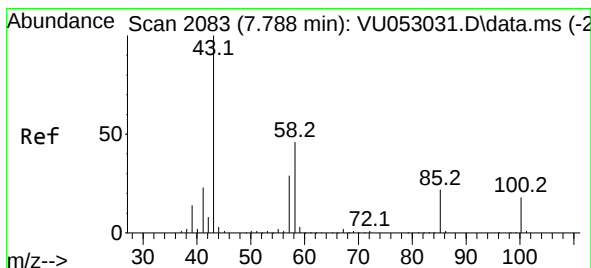
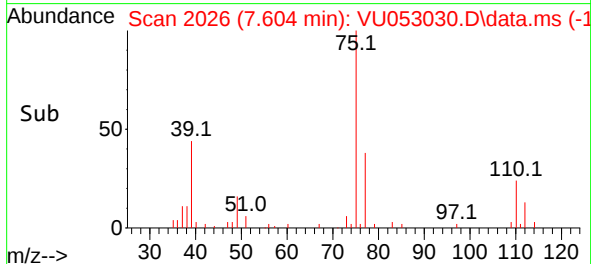
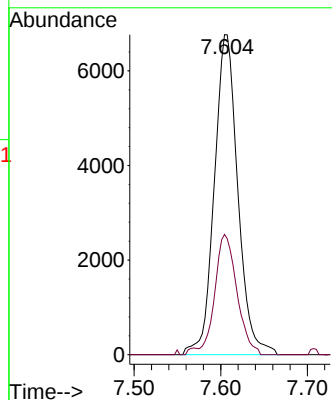
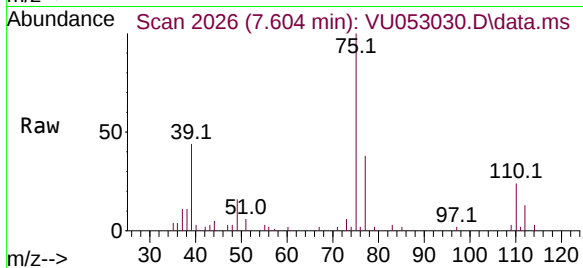
VSTD001008

Tgt Ion: 75 Resp: 12776

Ion Ratio Lower Upper

75 100

77 37.6 21.6 40.0



#40

4-Methyl-2-pentanone

Concen: 9.420 ug/L

RT: 7.791 min Scan# 2084

Delta R.T. 0.003 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

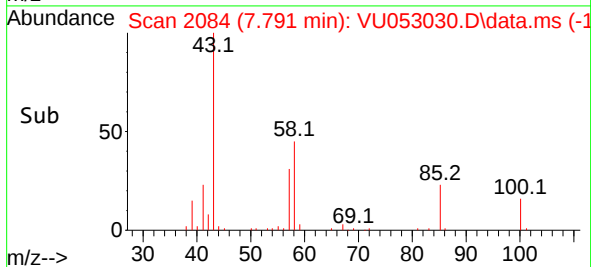
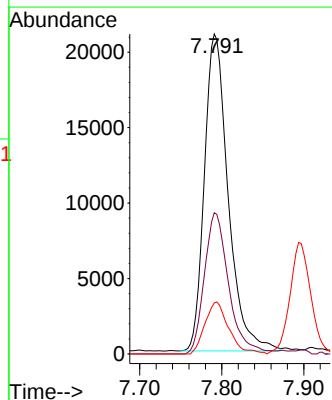
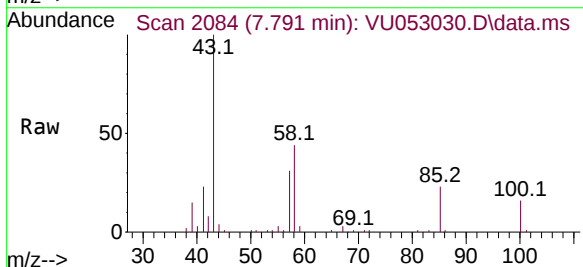
Tgt Ion: 43 Resp: 42292

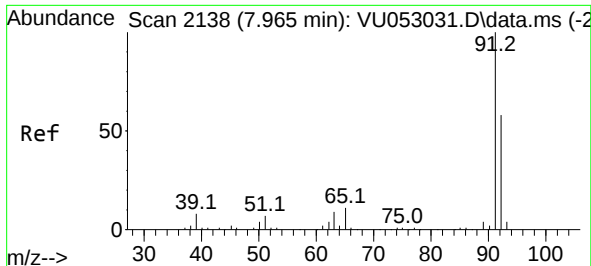
Ion Ratio Lower Upper

43 100

58 45.5 35.9 53.9

100 16.4 13.8 20.6





#42

Toluene

Concen: 0.936 ug/L

RT: 7.968 min Scan# 2138

Delta R.T. 0.003 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

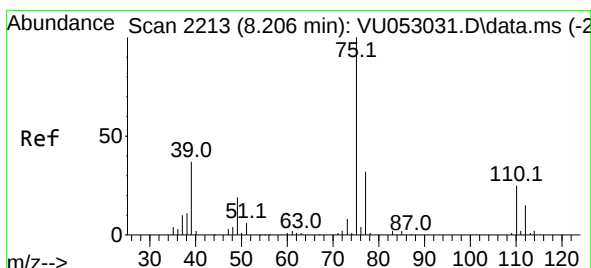
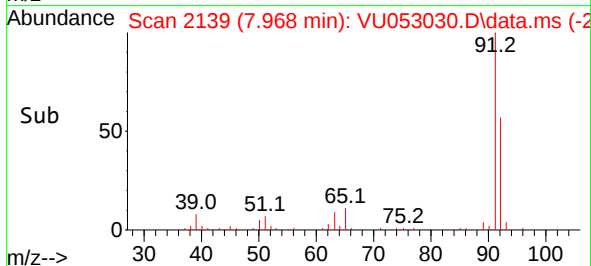
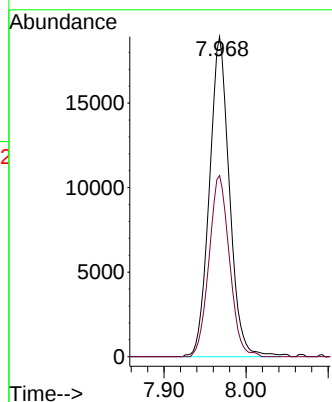
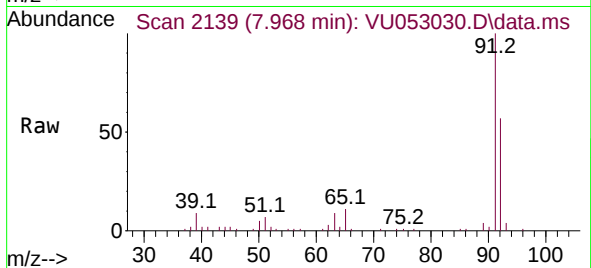
VSTD001008

Tgt Ion: 91 Resp: 32101

Ion Ratio Lower Upper

91 100

92 56.6 40.5 75.3



#44

trans-1,3-Dichloropropene

Concen: 0.936 ug/L

RT: 8.209 min Scan# 2214

Delta R.T. 0.003 min

Lab File: VU053030.D

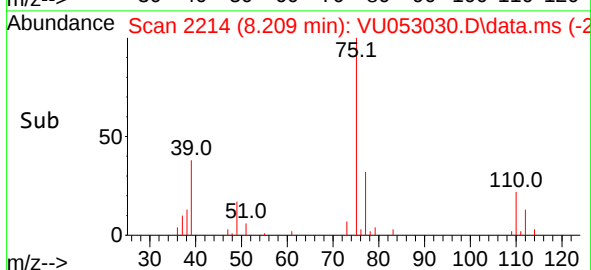
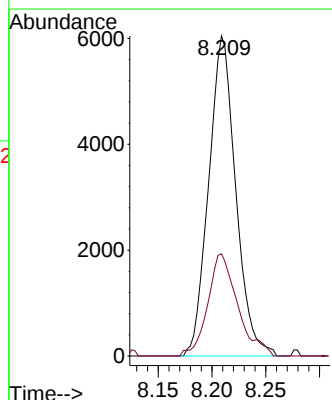
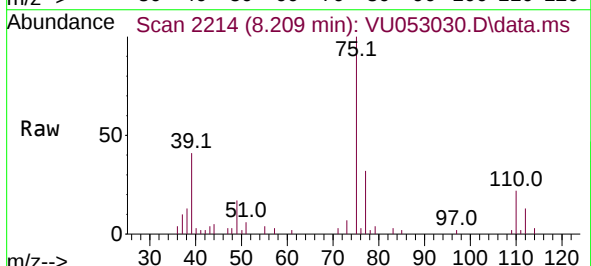
Acq: 10 Feb 2023 11:21

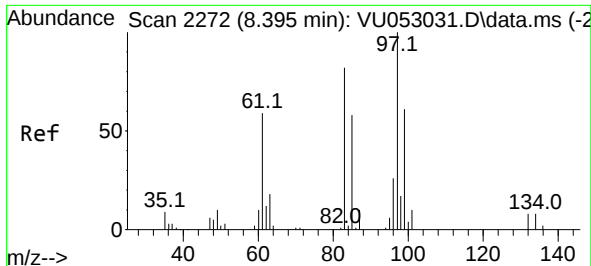
Tgt Ion: 75 Resp: 10589

Ion Ratio Lower Upper

75 100

77 31.9 22.3 41.3



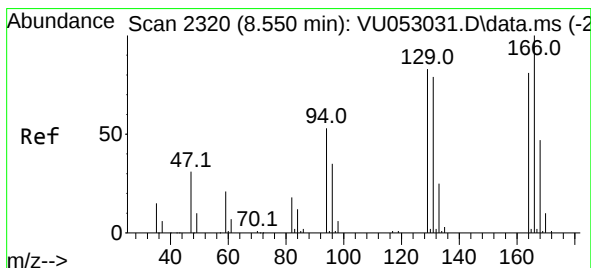
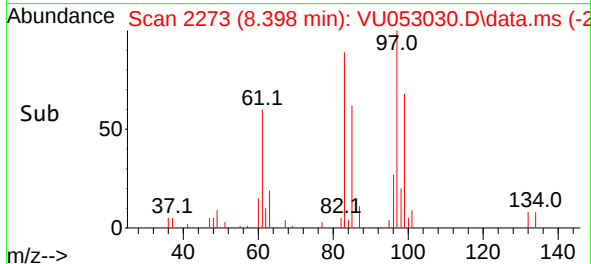
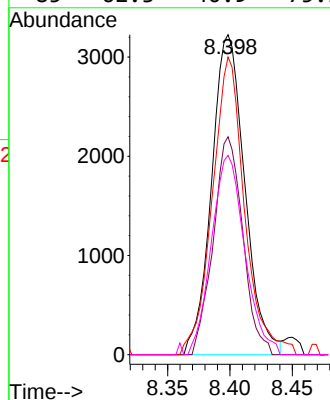
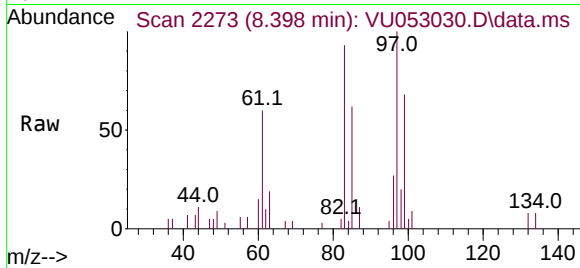


#45  
1,1,2-Trichloroethane  
Concen: 0.966 ug/L  
RT: 8.398 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD001008

Tgt Ion: 97 Resp: 5988

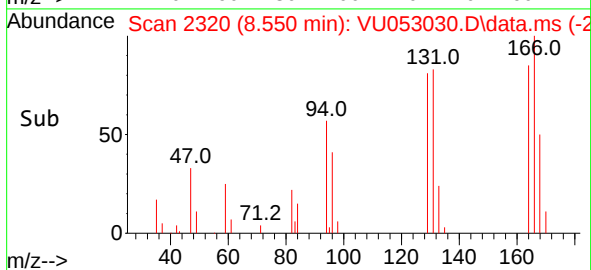
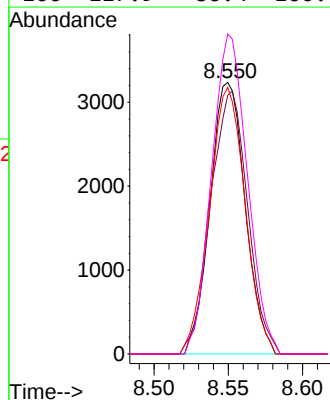
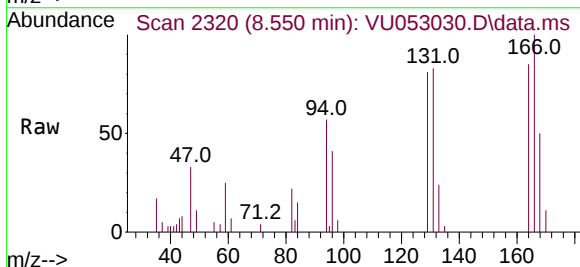
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 68.1  | 43.0  | 79.8  |
| 83  | 93.0  | 58.0  | 107.8 |
| 85  | 62.3  | 40.9  | 75.9  |

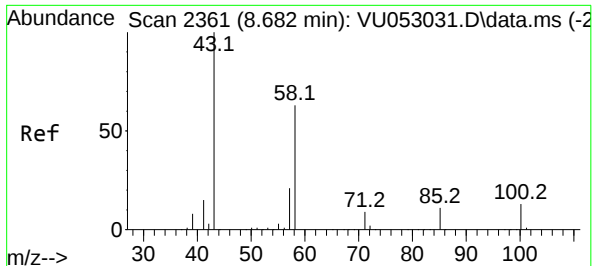


#47  
Tetrachloroethene  
Concen: 0.922 ug/L  
RT: 8.550 min Scan# 2320  
Delta R.T. -0.000 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

Tgt Ion: 164 Resp: 5325

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 95.3  | 71.7  | 133.1 |
| 131 | 98.2  | 67.8  | 126.0 |
| 166 | 117.9 | 86.4  | 160.4 |





#48

2-Hexanone

Concen: 8.849 ug/L

RT: 8.685 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

VSTD001008

Tgt Ion: 43 Resp: 29159

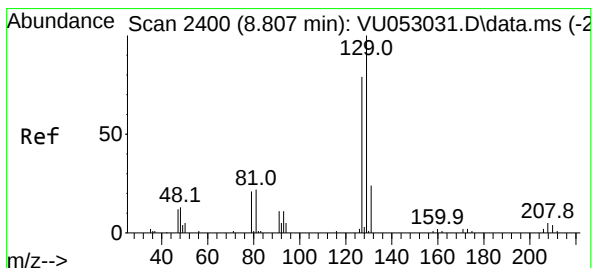
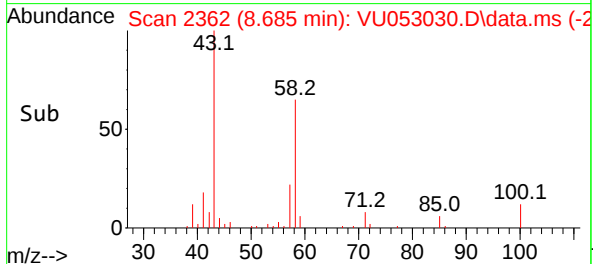
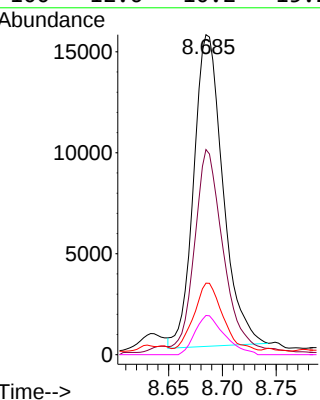
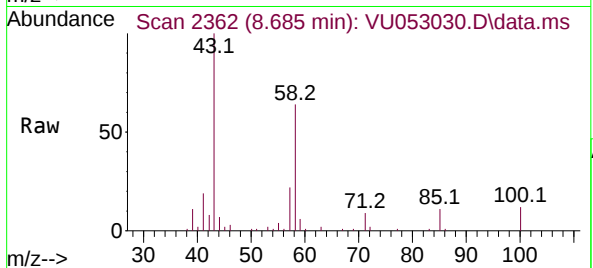
Ion Ratio Lower Upper

43 100

58 66.0 50.3 75.5

57 22.2 17.4 26.0

100 12.6 10.2 15.2



#49

Dibromochloromethane

Concen: 0.923 ug/L

RT: 8.807 min Scan# 2400

Delta R.T. -0.000 min

Lab File: VU053030.D

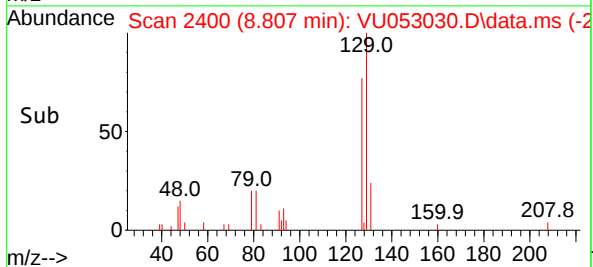
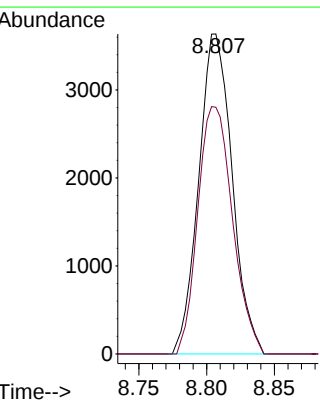
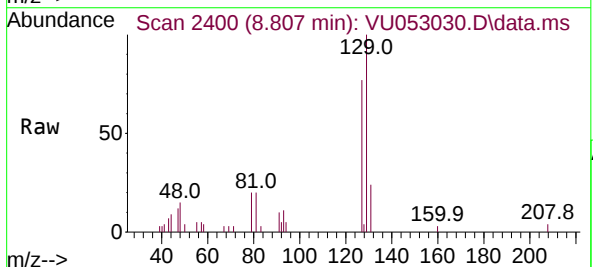
Acq: 10 Feb 2023 11:21

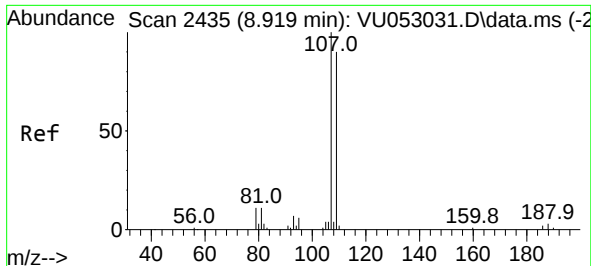
Tgt Ion:129 Resp: 6237

Ion Ratio Lower Upper

129 100

127 77.1 54.9 102.1





#50

1,2-Dibromoethane

Concen: 0.978 ug/L

RT: 8.923 min Scan# 2435

Delta R.T. 0.003 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

VSTD001008

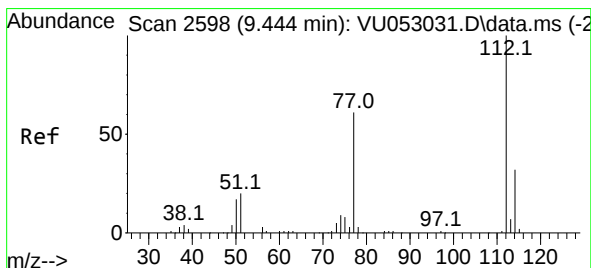
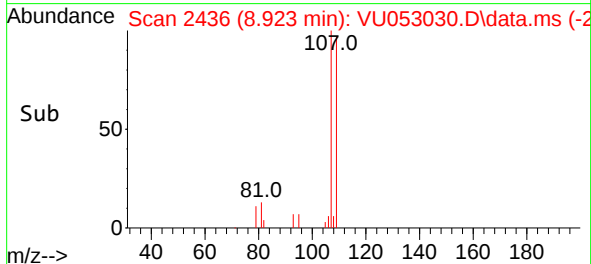
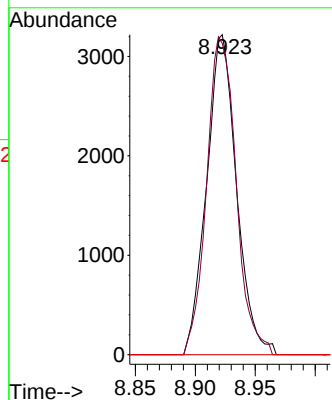
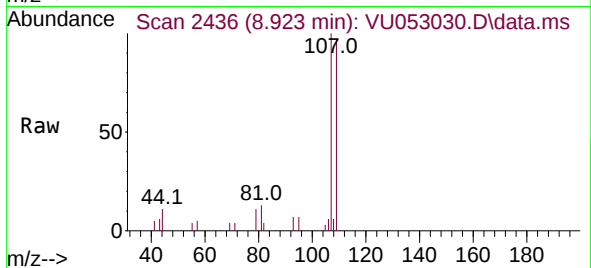
Tgt Ion:107 Resp: 5589

Ion Ratio Lower Upper

107 100

109 97.3 63.1 117.1

188 0.0 2.5 3.7#



#51

Chlorobenzene

Concen: 0.915 ug/L

RT: 9.443 min Scan# 2598

Delta R.T. -0.000 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

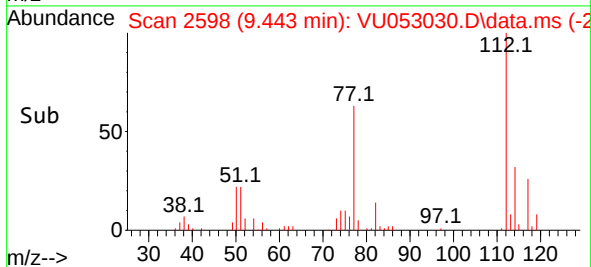
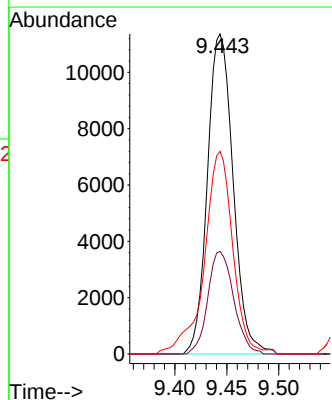
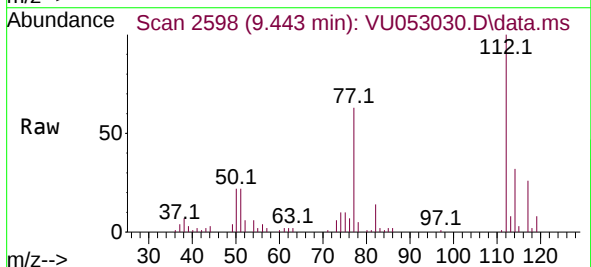
Tgt Ion:112 Resp: 19576

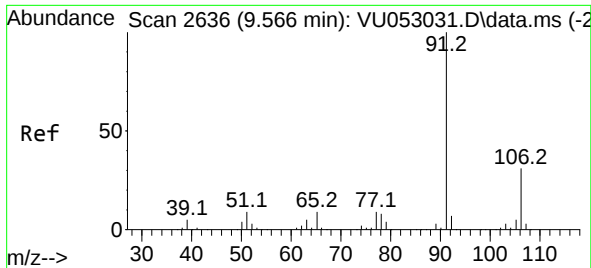
Ion Ratio Lower Upper

112 100

114 32.0 22.3 41.3

77 63.3 48.9 73.3

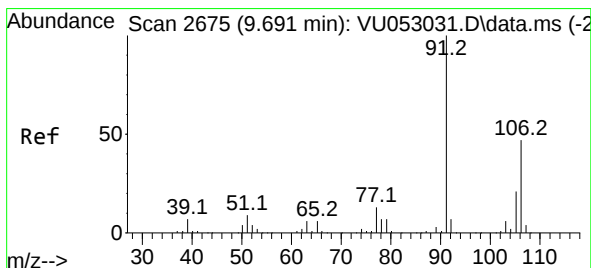
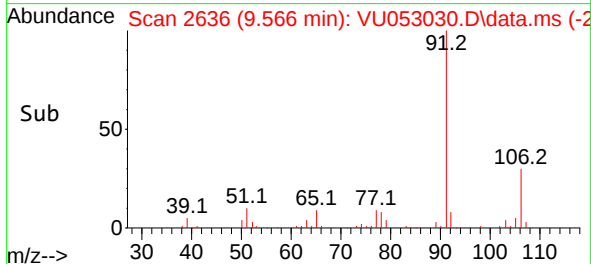
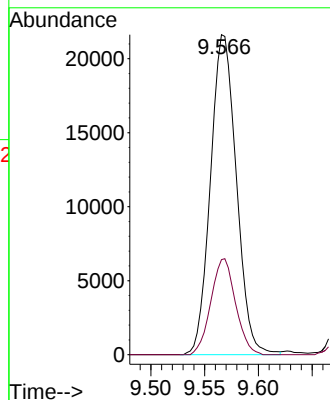
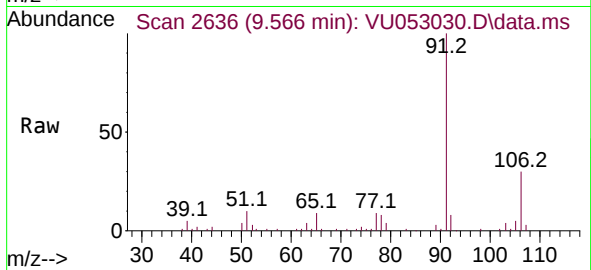




#52  
Ethylbenzene  
Concen: 0.930 ug/L  
RT: 9.566 min Scan# 2636  
Delta R.T. -0.000 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

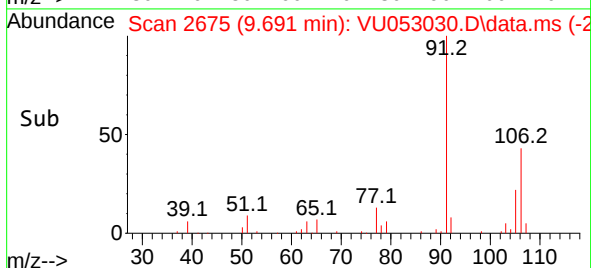
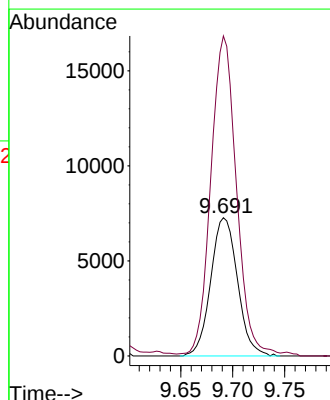
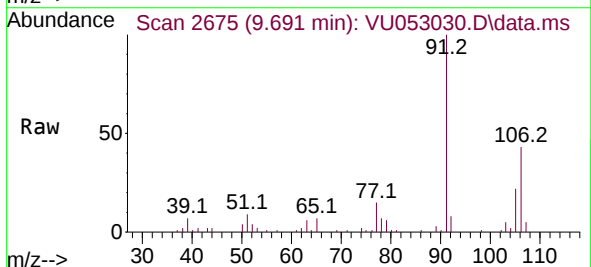
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD001008

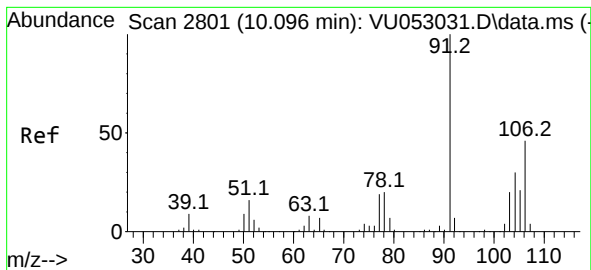
Tgt Ion: 91 Resp: 36217  
Ion Ratio Lower Upper  
91 100  
106 29.7 21.4 39.8



#53  
m,p-Xylene  
Concen: 0.896 ug/L  
RT: 9.691 min Scan# 2675  
Delta R.T. -0.000 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

Tgt Ion: 106 Resp: 13039  
Ion Ratio Lower Upper  
106 100  
91 231.5 149.9 278.3





#54

o-Xylene

Concen: 0.942 ug/L

RT: 10.096 min Scan# 2801

Delta R.T. -0.000 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

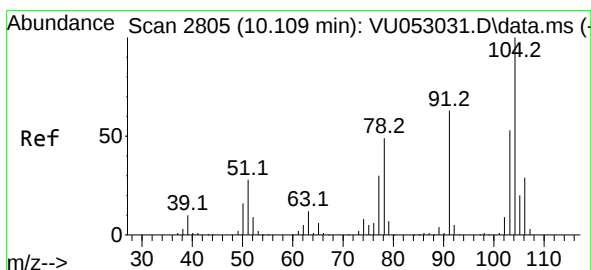
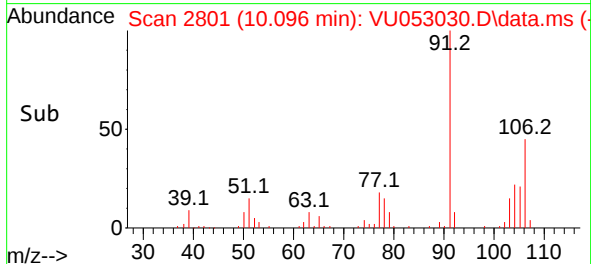
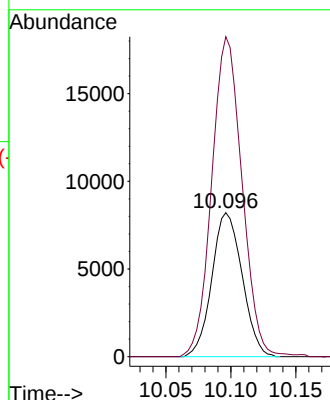
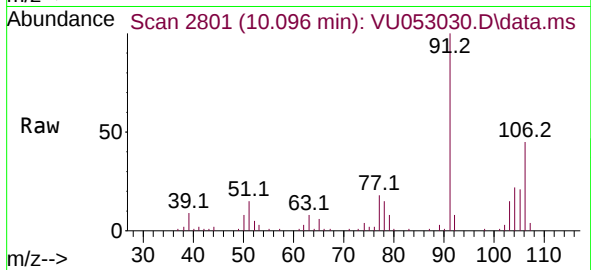
VSTD001008

Tgt Ion:106 Resp: 13298

Ion Ratio Lower Upper

106 100

91 222.3 153.6 285.2



#55

Styrene

Concen: 0.883 ug/L

RT: 10.112 min Scan# 2806

Delta R.T. 0.003 min

Lab File: VU053030.D

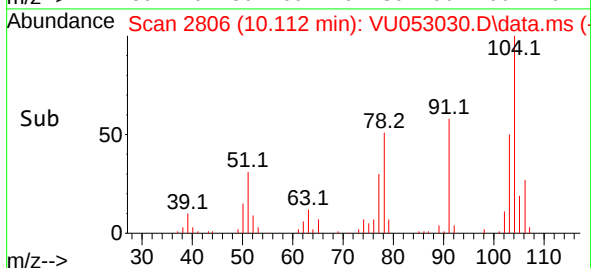
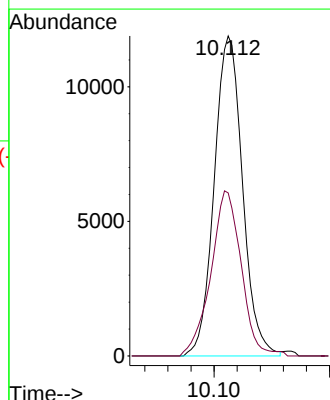
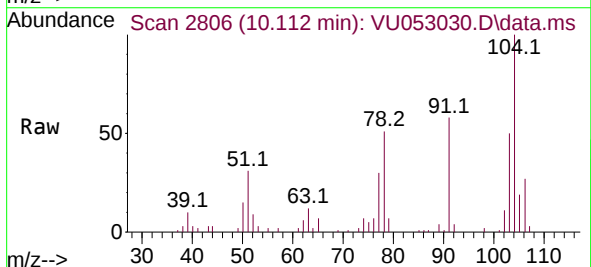
Acq: 10 Feb 2023 11:21

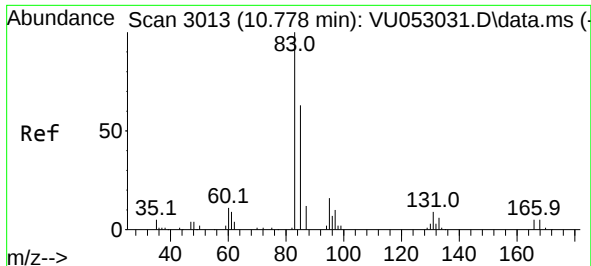
Tgt Ion:104 Resp: 20213

Ion Ratio Lower Upper

104 100

78 51.0 34.3 63.7





#57

1,1,2,2-Tetrachloroethane

Concen: 0.960 ug/L

RT: 10.781 min Scan# 3014

Delta R.T. 0.003 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

VSTD001008

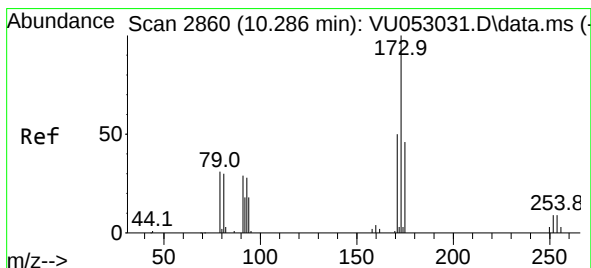
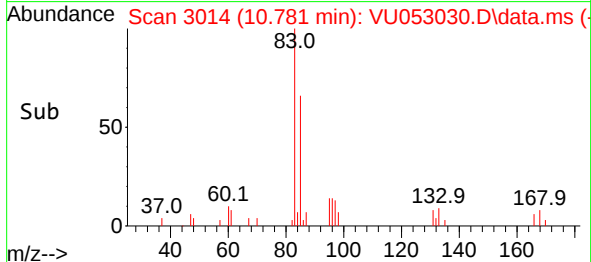
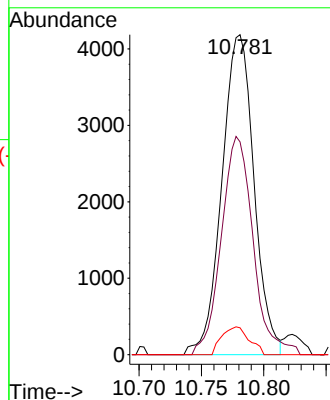
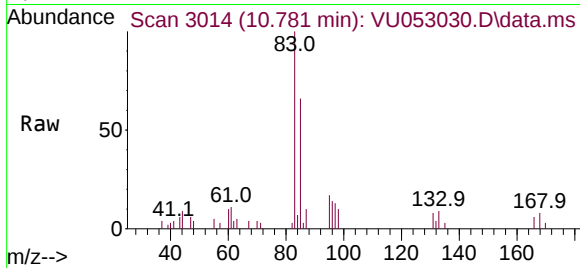
Tgt Ion: 83 Resp: 7526

Ion Ratio Lower Upper

83 100

85 66.5 44.7 82.9

131 8.4 7.8 11.6



#59

Bromoform

Concen: 0.920 ug/L

RT: 10.286 min Scan# 2860

Delta R.T. -0.000 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

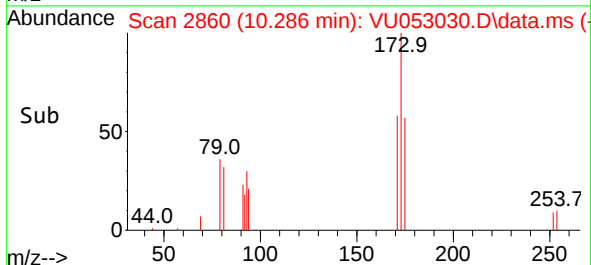
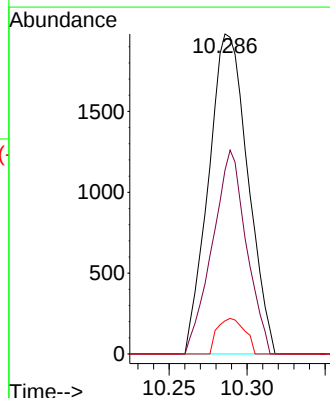
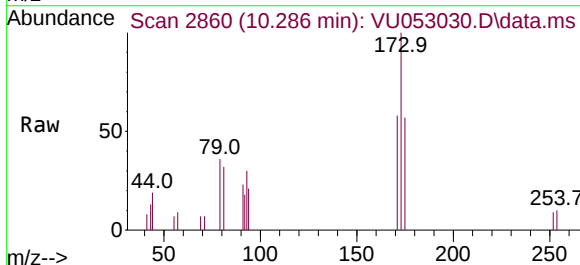
Tgt Ion:173 Resp: 3458

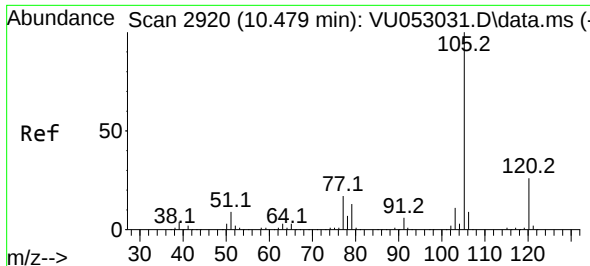
Ion Ratio Lower Upper

173 100

175 55.3 38.9 58.3

254 7.8 7.0 10.4

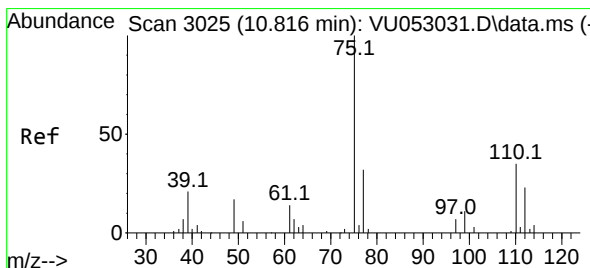
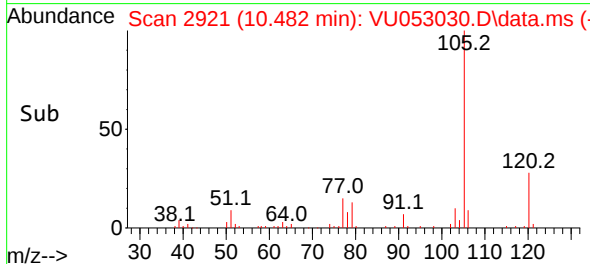
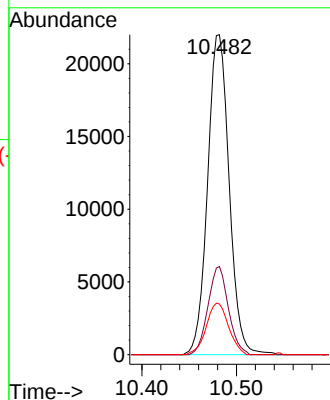
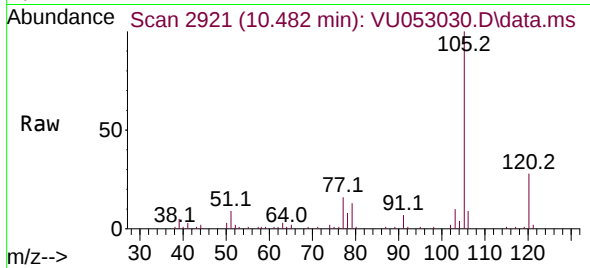




#60  
Isopropylbenzene  
Concen: 0.932 ug/L  
RT: 10.482 min Scan# 2921  
Delta R.T. 0.003 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

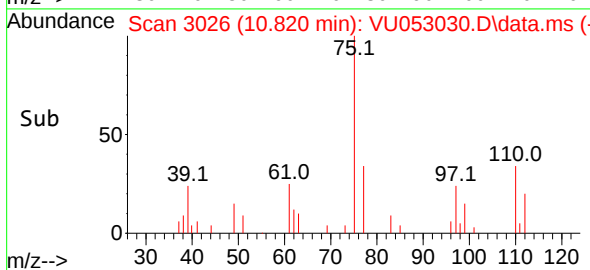
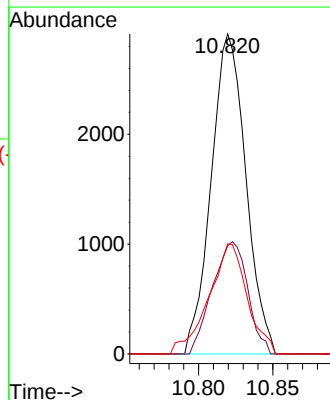
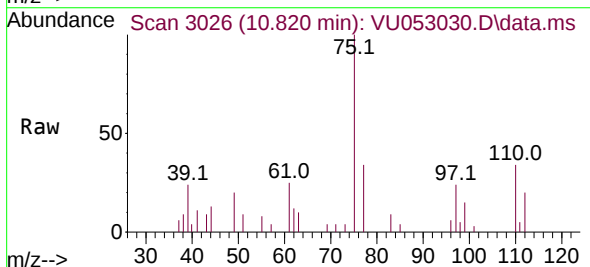
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD001008

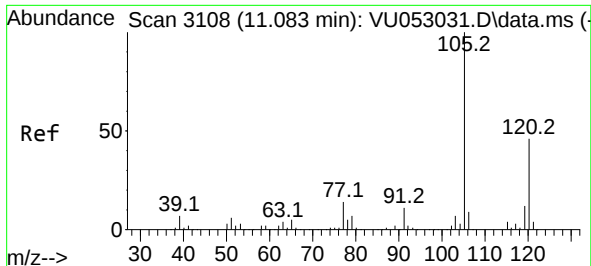
Tgt Ion:105 Resp: 34852  
Ion Ratio Lower Upper  
105 100  
120 26.0 20.6 31.0  
77 16.7 13.0 19.6



#61  
1,2,3-Trichloropropane  
Concen: 0.953 ug/L  
RT: 10.820 min Scan# 3026  
Delta R.T. 0.003 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

Tgt Ion: 75 Resp: 4731  
Ion Ratio Lower Upper  
75 100  
110 35.8 28.6 42.8  
77 38.1 27.6 41.4





#62

1,3,5-Trimethylbenzene

Concen: 0.950 ug/L

RT: 11.083 min Scan# 3108

Delta R.T. -0.000 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

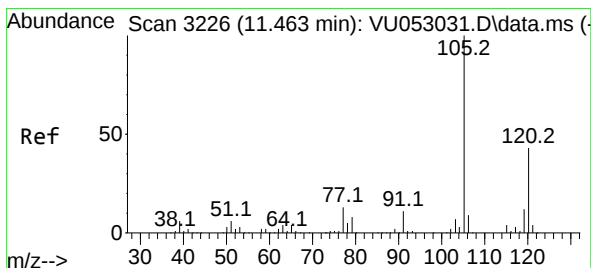
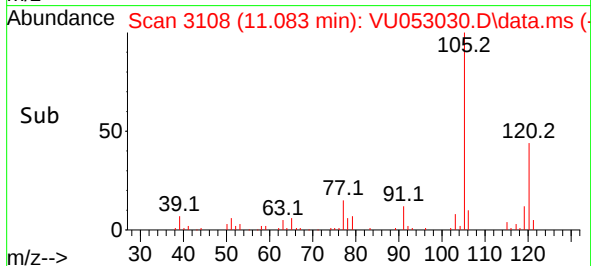
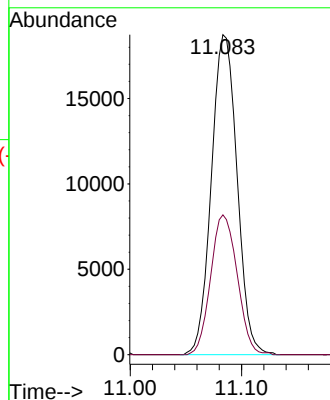
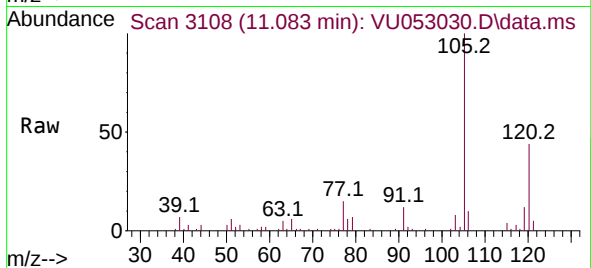
VSTD001008

Tgt Ion:105 Resp: 30012

Ion Ratio Lower Upper

105 100

120 45.2 37.0 55.6



#63

1,2,4-Trimethylbenzene

Concen: 0.930 ug/L

RT: 11.466 min Scan# 3227

Delta R.T. 0.003 min

Lab File: VU053030.D

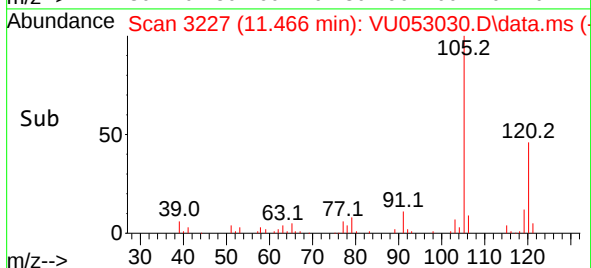
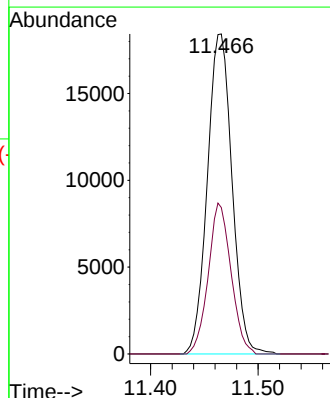
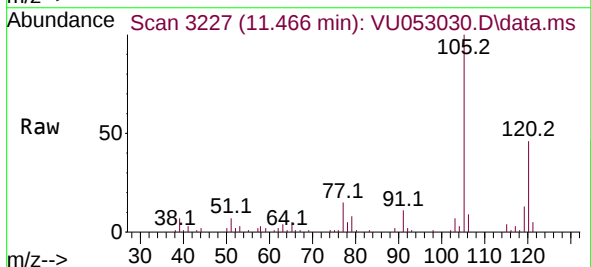
Acq: 10 Feb 2023 11:21

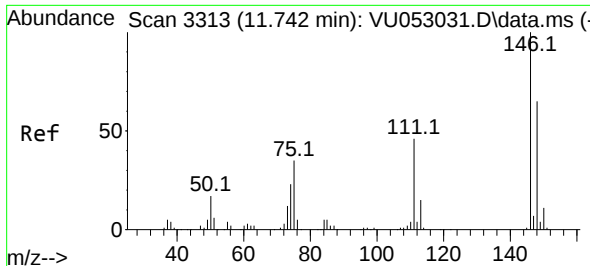
Tgt Ion:105 Resp: 29388

Ion Ratio Lower Upper

105 100

120 43.4 34.7 52.1

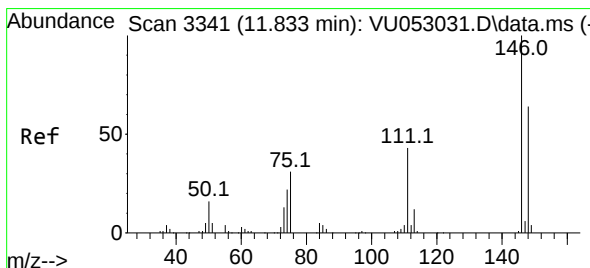
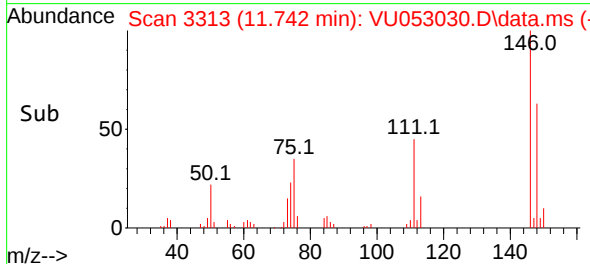
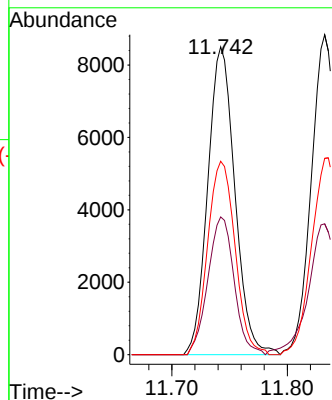
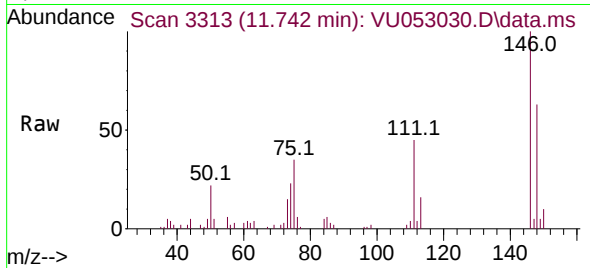




#64  
1,3-Dichlorobenzene  
Concen: 0.916 ug/L  
RT: 11.742 min Scan# 3313  
Delta R.T. -0.000 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

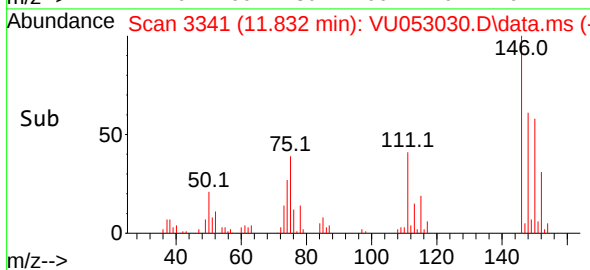
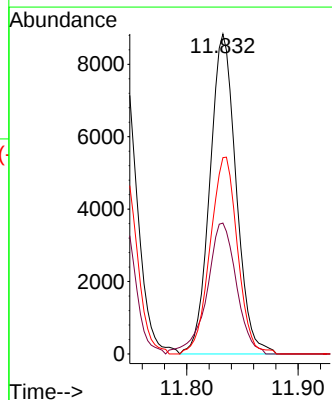
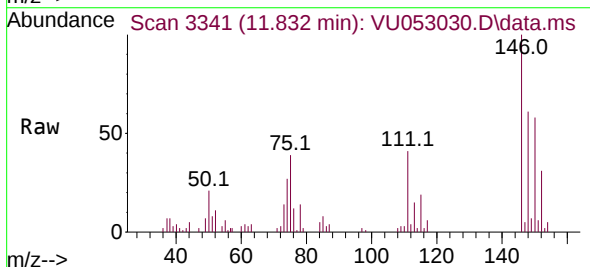
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD001008

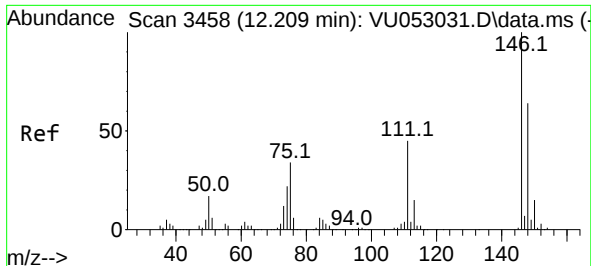
Tgt Ion:146 Resp: 13876  
Ion Ratio Lower Upper  
146 100  
111 44.7 32.0 59.4  
148 62.8 45.3 84.1



#65  
1,4-Dichlorobenzene  
Concen: 0.954 ug/L  
RT: 11.832 min Scan# 3341  
Delta R.T. -0.000 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

Tgt Ion:146 Resp: 14473  
Ion Ratio Lower Upper  
146 100  
111 40.9 30.3 56.3  
148 61.3 44.7 82.9





#67

1,2-Dichlorobenzene

Concen: 0.929 ug/L

RT: 12.209 min Scan# 3458

Delta R.T. -0.000 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

Instrument :

MSVOA\_U

ClientSampleId :

VSTD001008

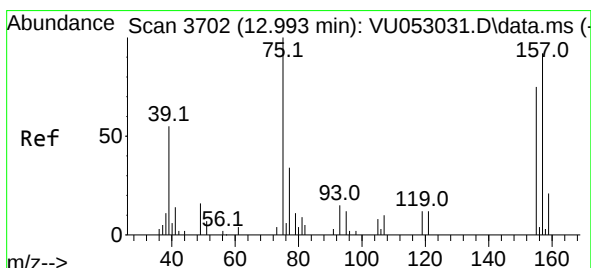
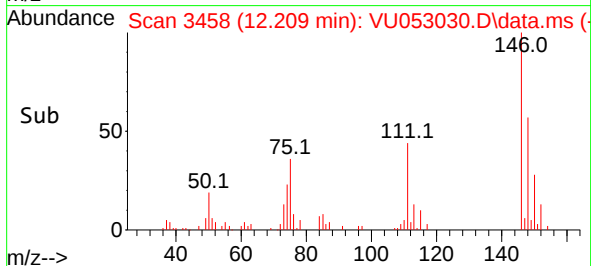
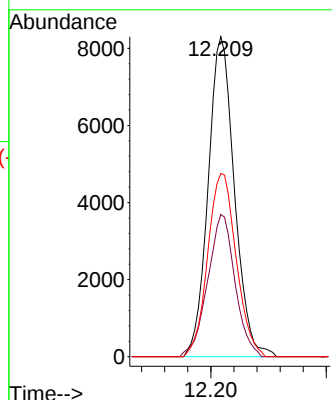
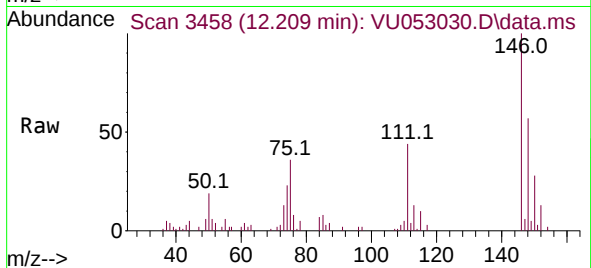
Tgt Ion:146 Resp: 13116

Ion Ratio Lower Upper

146 100

111 44.4 36.3 54.5

148 57.3 51.3 76.9



#68

1,2-Dibromo-3-chloropropane

Concen: 0.855 ug/L

RT: 13.000 min Scan# 3704

Delta R.T. 0.006 min

Lab File: VU053030.D

Acq: 10 Feb 2023 11:21

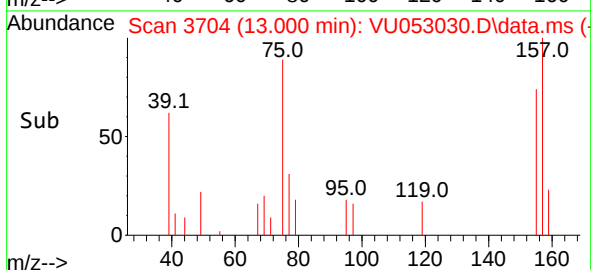
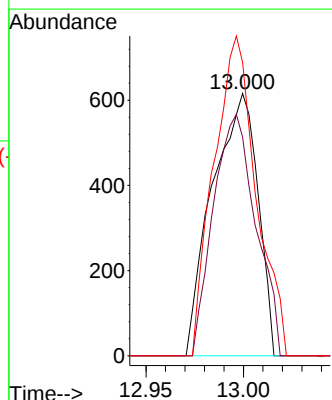
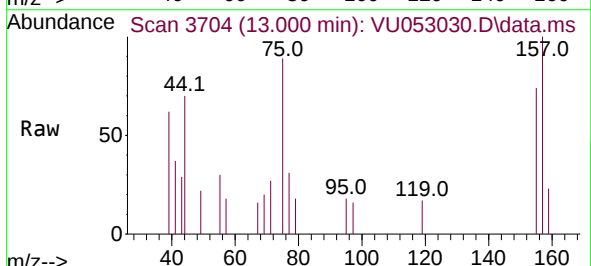
Tgt Ion: 75 Resp: 997

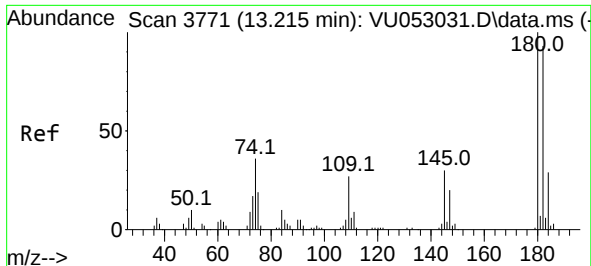
Ion Ratio Lower Upper

75 100

155 83.3 59.8 89.8

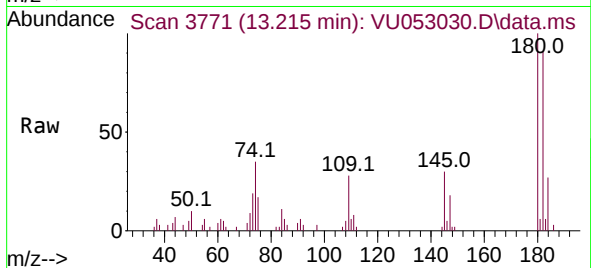
157 111.9 73.2 109.8#



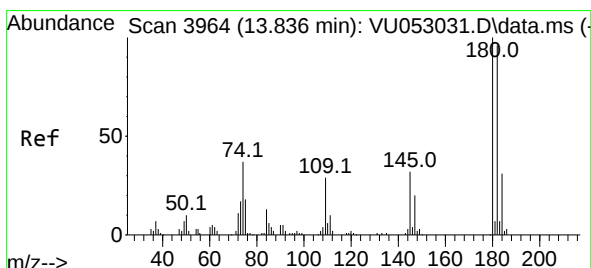
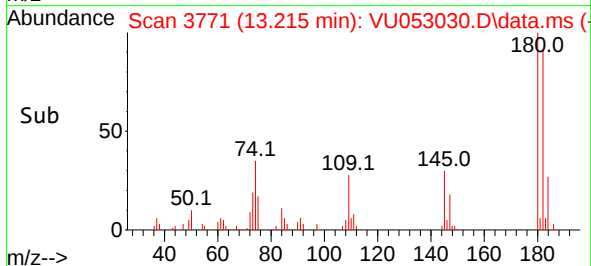
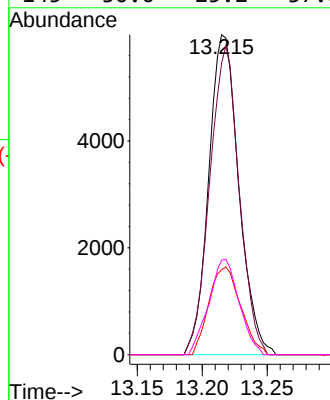


#69  
 1,3,5-Trichlorobenzene  
 Concen: 0.894 ug/L  
 RT: 13.215 min Scan# 3771  
 Delta R.T. -0.000 min  
 Lab File: VU053030.D  
 Acq: 10 Feb 2023 11:21

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD001008

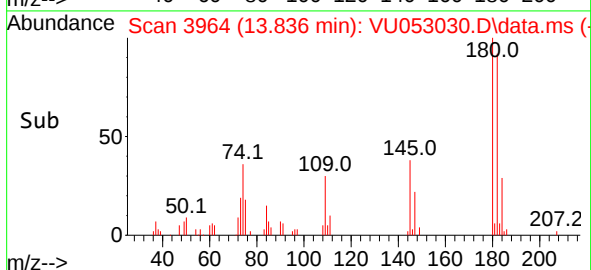
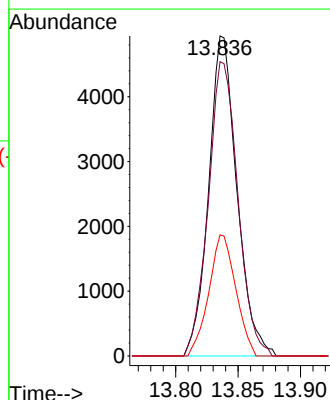
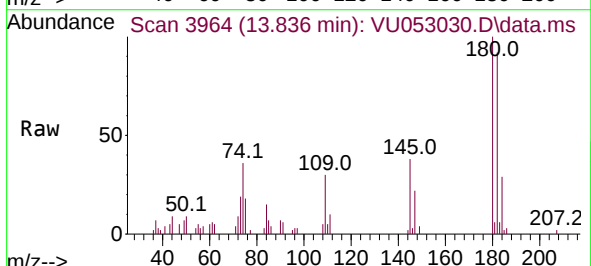


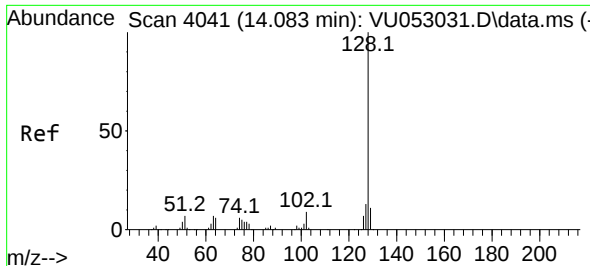
Tgt Ion:180 Resp: 9639  
 Ion Ratio Lower Upper  
 180 100  
 182 94.3 75.4 113.0  
 184 29.0 23.8 35.6  
 145 30.0 25.2 37.8



#70  
 1,2,4-trichlorobenzene  
 Concen: 0.870 ug/L  
 RT: 13.836 min Scan# 3964  
 Delta R.T. -0.000 min  
 Lab File: VU053030.D  
 Acq: 10 Feb 2023 11:21

Tgt Ion:180 Resp: 7789  
 Ion Ratio Lower Upper  
 180 100  
 182 96.1 74.9 112.3  
 145 36.1 25.1 37.7

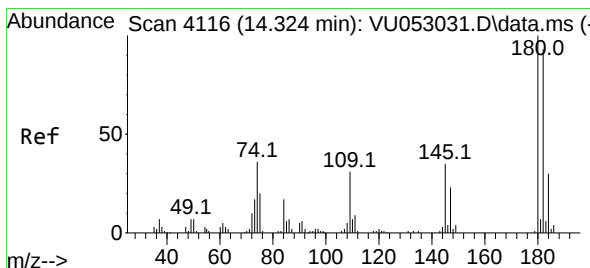
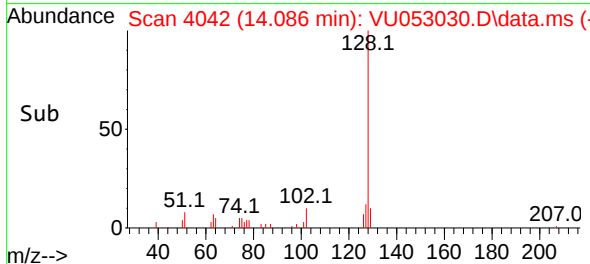
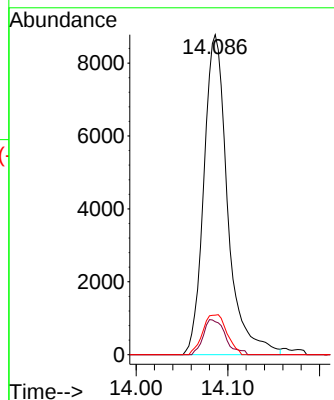
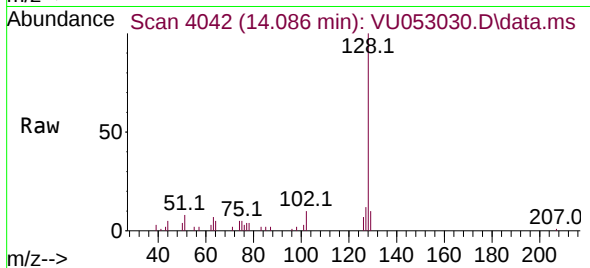




#71  
Naphthalene  
Concen: 0.883 ug/L  
RT: 14.086 min Scan# 4041  
Delta R.T. 0.003 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD001008

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 15851 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 10.1  | 8.8   | 13.2  |
| 127       | 12.6  | 10.2  | 15.4  |



#72  
1,2,3-Trichlorobenzene  
Concen: 0.852 ug/L  
RT: 14.327 min Scan# 4117  
Delta R.T. 0.003 min  
Lab File: VU053030.D  
Acq: 10 Feb 2023 11:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 6736  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 97.6  | 76.2  | 114.4 |
| 145       | 37.0  | 28.2  | 42.2  |

