

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111922\  
 Data File : VU051910.D  
 Acq On : 18 Nov 2022 17:36  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005083

Quant Time: Nov 18 22:21:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111822WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Nov 18 22:15:34 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247  | 114   | 270351   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414  | 117   | 266102   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809 | 152   | 131978   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597  | 65    | 124624   | 4.739    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 94.800%  |
| 7) Chloroethane-d5            | 1.912  | 69    | 96303    | 4.715    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 94.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.565  | 65    | 45436    | 4.820    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 96.400%  |
| 20) 2-Butanone-d5             | 4.642  | 46    | 248729   | 52.181   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 104.360% |
| 24) Chloroform-d              | 5.060  | 84    | 189985   | 4.917    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 98.400%  |
| 26) 1,2-Dichloroethane-d4     | 5.700  | 65    | 93509    | 4.791    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 95.800%  |
| 32) Benzene-d6                | 5.726  | 84    | 397037   | 5.026    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 100.600% |
| 36) 1,2-Dichloropropane-d6    | 6.687  | 67    | 121330   | 4.963    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 99.200%  |
| 41) Toluene-d8                | 7.896  | 98    | 369931   | 5.175    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 103.600% |
| 43) trans-1,3-Dichloroprop... | 8.179  | 79    | 46689    | 5.240    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 104.800% |
| 46) 2-Hexanone-d5             | 8.632  | 63    | 205626   | 54.460   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 108.920% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755 | 84    | 105391   | 4.972    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 99.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.189 | 152   | 125450   | 4.965    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 99.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385  | 85    | 111160   | 4.741    | ug/L   | 100      |
| 3) Chloromethane              | 1.523  | 50    | 144607   | 4.726    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.604  | 62    | 143193   | 4.870    | ug/L   | 99       |
| 6) Bromomethane               | 1.858  | 94    | 73511    | 4.872    | ug/L   | 99       |
| 8) Chloroethane               | 1.935  | 64    | 89800    | 4.912    | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 2.138  | 101   | 151701   | 4.690    | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578  | 101   | 91155    | 4.609    | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.578  | 96    | 95012    | 4.845    | ug/L   | 97       |
| 13) Acetone                   | 2.658  | 43    | 161628   | 49.934   | ug/L   | 97       |
| 14) Carbon disulfide          | 2.793  | 76    | 328668   | 4.841    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.964  | 43    | 41824    | 4.982    | ug/L   | 99       |
| 16) Methylene chloride        | 3.044  | 84    | 119782   | 4.515    | ug/L   | 99       |
| 17) Methyl tert-butyl Ether   | 3.363  | 73    | 222358   | 5.065    | ug/L   | 100      |
| 18) trans-1,2-Dichloroethene  | 3.353  | 96    | 104429   | 4.967    | ug/L   | 95       |
| 19) 1,1-Dichloroethane        | 3.867  | 63    | 189325   | 4.997    | ug/L   | 99       |
| 21) 2-Butanone                | 4.719  | 43    | 265035   | 51.086   | ug/L   | 96       |
| 22) cis-1,2-Dichloroethene    | 4.665  | 96    | 112895   | 5.117    | ug/L   | 99       |
| 23) Bromochloromethane        | 4.973  | 128   | 53194    | 5.039    | ug/L   | 96       |
| 25) Chloroform                | 5.089  | 83    | 192682   | 5.019    | ug/L   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111922\  
 Data File : VU051910.D  
 Acq On : 18 Nov 2022 17:36  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005083

Quant Time: Nov 18 22:21:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111822WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Nov 18 22:15:34 2022  
 Response via : Initial Calibration

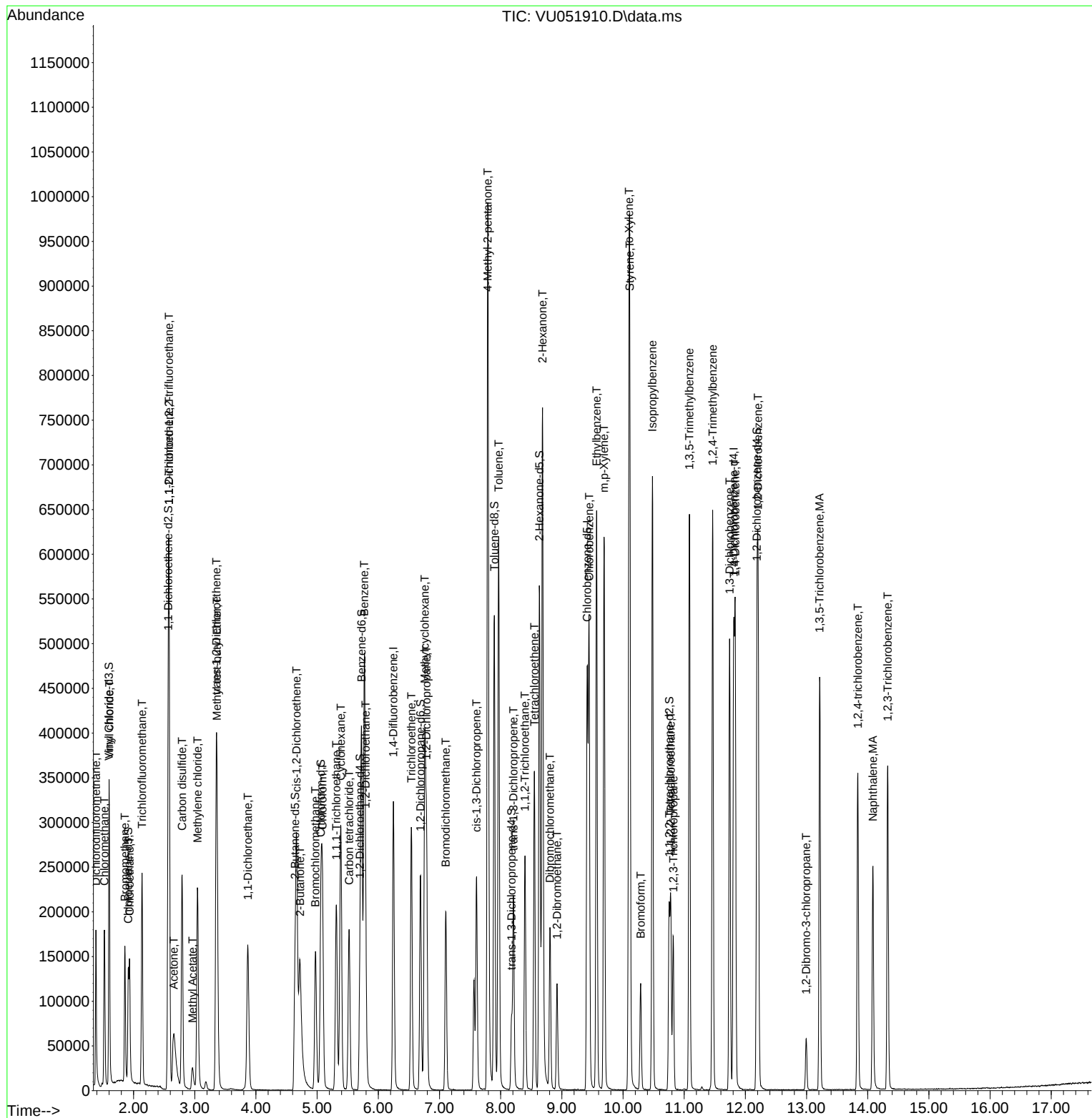
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.793  | 62   | 118717   | 5.049  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane     | 5.314  | 97   | 147432   | 4.994  | ug/L  | 98       |
| 30) Cyclohexane               | 5.385  | 56   | 146465   | 5.109  | ug/L  | 97       |
| 31) Carbon tetrachloride      | 5.523  | 117  | 124124   | 4.948  | ug/L  | 99       |
| 33) Benzene                   | 5.771  | 78   | 448205   | 5.175  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 105182   | 4.869  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.761  | 83   | 151671   | 4.881  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 114020   | 5.085  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.102  | 83   | 136389   | 4.989  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 148847   | 5.170  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 640612   | 54.694 | ug/L  | 99       |
| 42) Toluene                   | 7.967  | 91   | 471984   | 5.298  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 127352   | 5.166  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 86140    | 5.112  | ug/L  | 97       |
| 47) Tetrachloroethene         | 8.552  | 164  | 81824    | 4.943  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.684  | 43   | 479884   | 55.887 | ug/L  | 100      |
| 49) Dibromochloromethane      | 8.806  | 129  | 95722    | 5.072  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 79222    | 5.162  | ug/L  | 95       |
| 51) Chlorobenzene             | 9.446  | 112  | 284961   | 5.017  | ug/L  | 98       |
| 52) Ethylbenzene              | 9.568  | 91   | 452583   | 5.226  | ug/L  | 98       |
| 53) m,p-Xylene                | 9.690  | 106  | 181708   | 5.418  | ug/L  | 96       |
| 54) o-Xylene                  | 10.099 | 106  | 178667   | 5.559  | ug/L  | 96       |
| 55) Styrene                   | 10.111 | 104  | 301635   | 5.556  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 107917   | 5.128  | ug/L  | 99       |
| 59) Bromoform                 | 10.288 | 173  | 54723    | 5.034  | ug/L  | 98       |
| 60) Isopropylbenzene          | 10.481 | 105  | 442306   | 5.336  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.822 | 75   | 75454    | 4.995  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 353892   | 5.340  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 357288   | 5.432  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 216510   | 5.115  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 214716   | 5.086  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 211519   | 5.189  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 15302    | 4.629  | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 148490   | 4.947  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 116194   | 5.084  | ug/L  | 98       |
| 71) Naphthalene               | 14.086 | 128  | 209649   | 4.885  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 115547   | 5.138  | ug/L  | 99       |

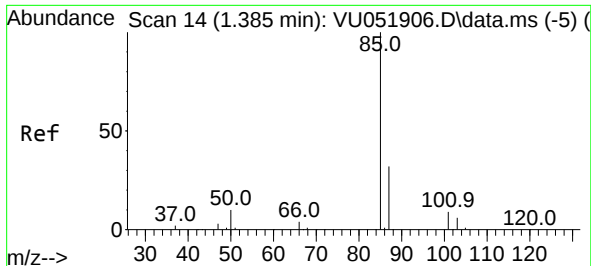
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111922\  
 Data File : VU051910.D  
 Acq On : 18 Nov 2022 17:36  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005083

Quant Time: Nov 18 22:21:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111822WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Nov 18 22:15:34 2022  
 Response via : Initial Calibration

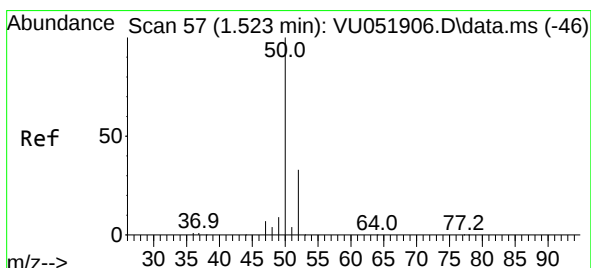
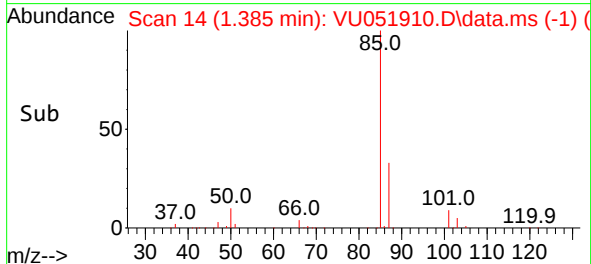
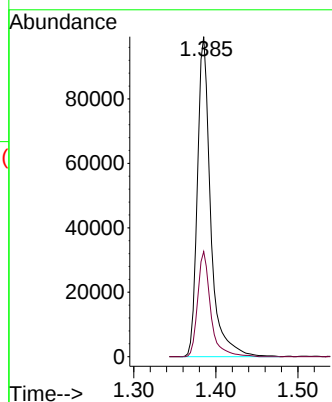
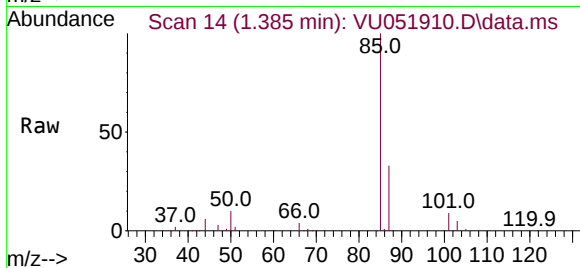




#2  
Dichlorodifluoromethane  
Concen: 4.741 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

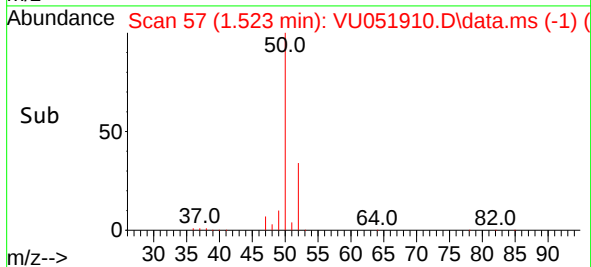
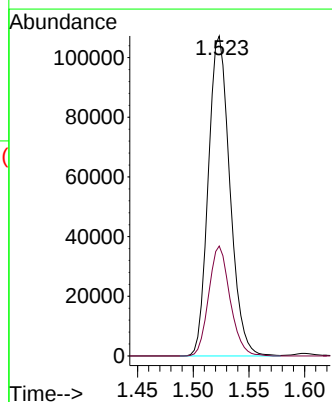
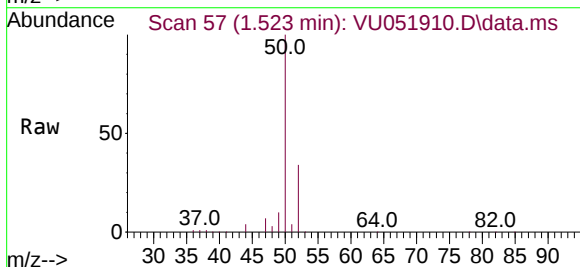
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005083

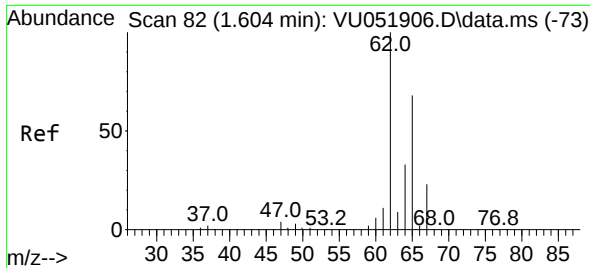
Tgt Ion: 85 Resp: 111160  
Ion Ratio Lower Upper  
85 100  
87 32.2 25.8 38.8



#3  
Chloromethane  
Concen: 4.726 ug/L  
RT: 1.523 min Scan# 57  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

Tgt Ion: 50 Resp: 144607  
Ion Ratio Lower Upper  
50 100  
52 34.3 23.4 43.4

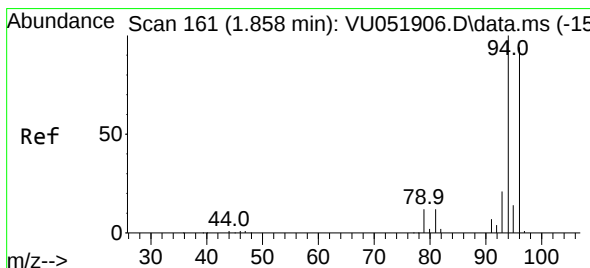
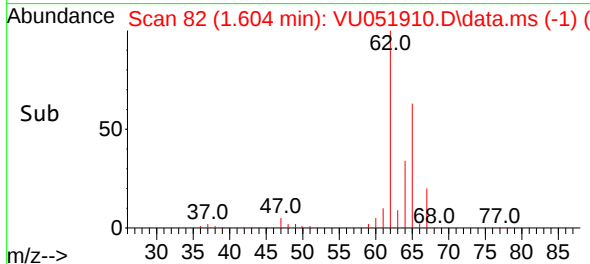
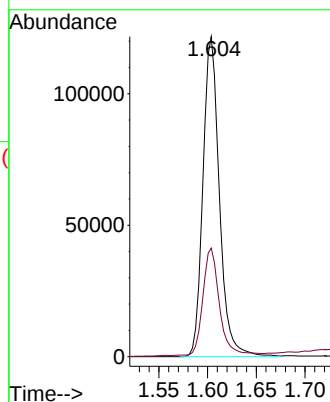
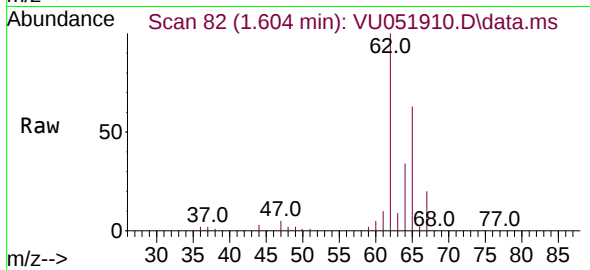




#5  
 Vinyl chloride  
 Concen: 4.870 ug/L  
 RT: 1.604 min Scan# 82  
 Delta R.T. -0.000 min  
 Lab File: VU051910.D  
 Acq: 18 Nov 2022 17:36

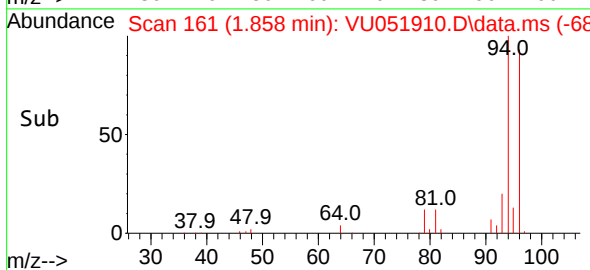
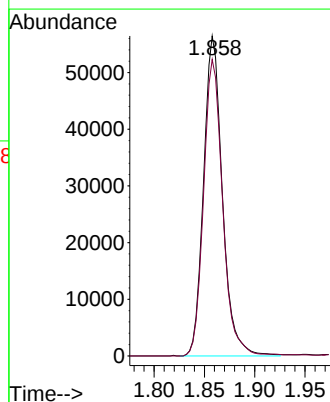
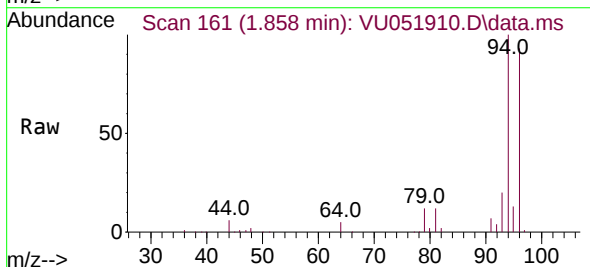
Instrument :  
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 ClientSampleId :  
 VSTD005083

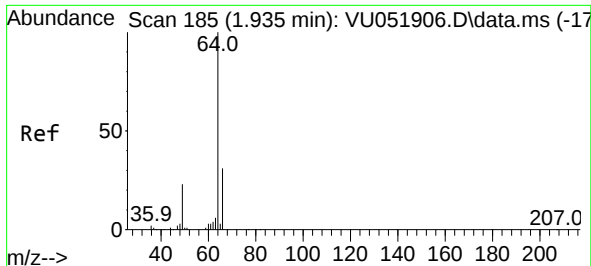
Tgt Ion: 62 Resp: 143193  
 Ion Ratio Lower Upper  
 62 100  
 64 33.9 23.5 43.7



#6  
 Bromomethane  
 Concen: 4.872 ug/L  
 RT: 1.858 min Scan# 161  
 Delta R.T. -0.000 min  
 Lab File: VU051910.D  
 Acq: 18 Nov 2022 17:36

Tgt Ion: 94 Resp: 73511  
 Ion Ratio Lower Upper  
 94 100  
 96 92.6 65.7 122.1

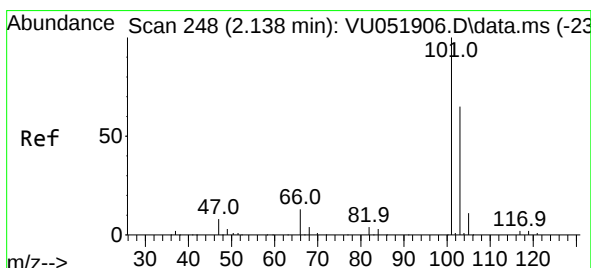
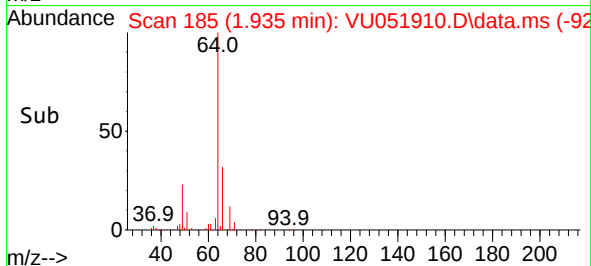
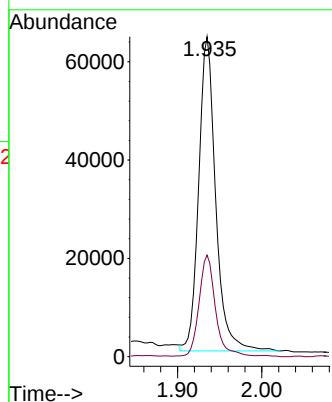
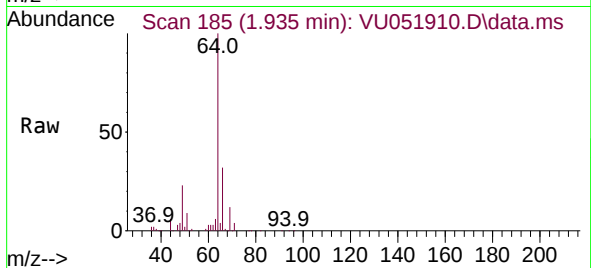




#8  
Chloroethane  
Concen: 4.912 ug/L  
RT: 1.935 min Scan# 185  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

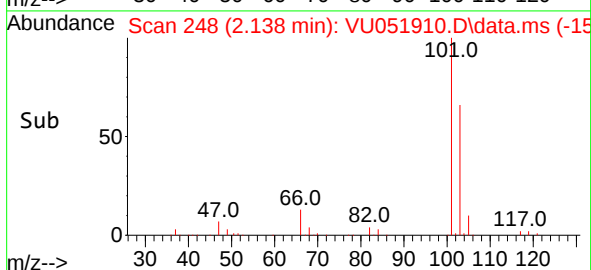
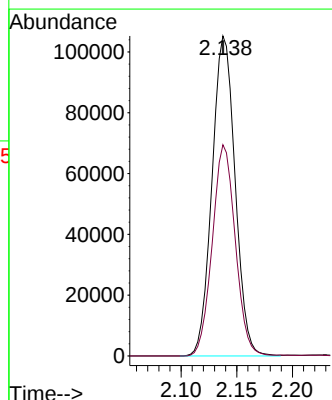
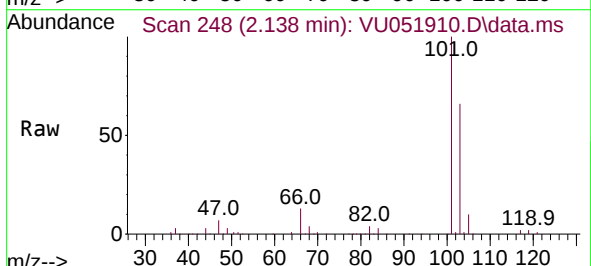
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005083

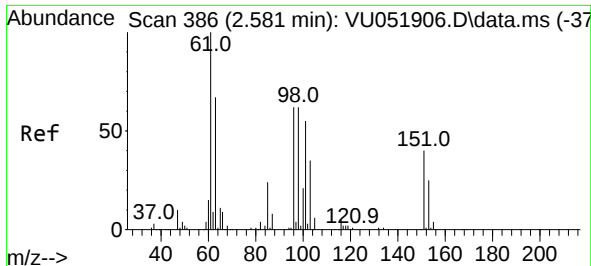
Tgt Ion: 64 Resp: 89800  
Ion Ratio Lower Upper  
64 100  
66 31.8 21.1 39.1



#9  
Trichlorofluoromethane  
Concen: 4.690 ug/L  
RT: 2.138 min Scan# 248  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

Tgt Ion: 101 Resp: 151701  
Ion Ratio Lower Upper  
101 100  
103 65.9 51.6 77.4

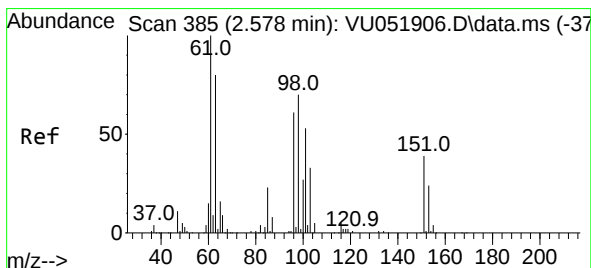
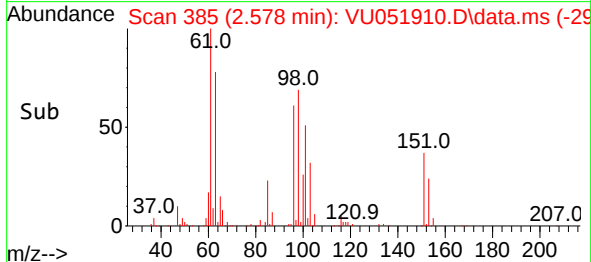
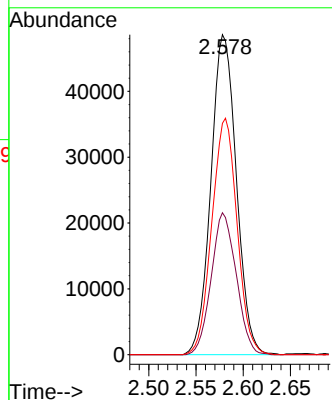
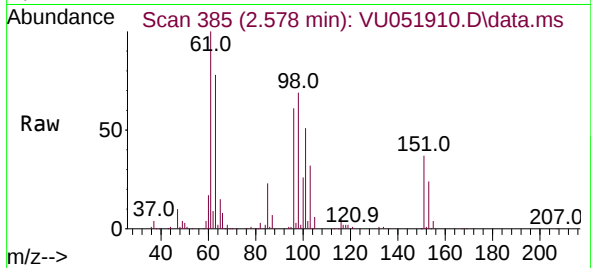




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 4.609 ug/L  
RT: 2.578 min Scan# 385  
Delta R.T. -0.003 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

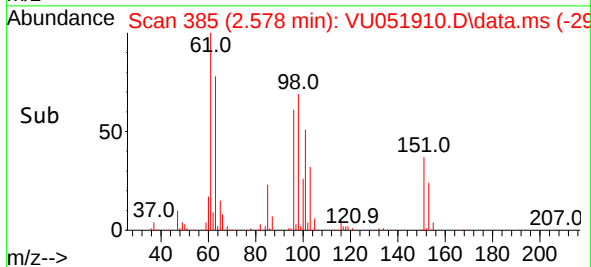
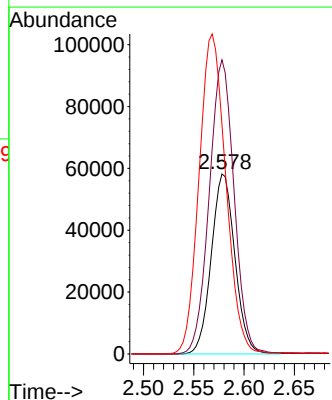
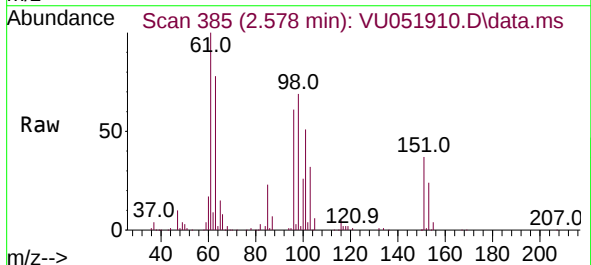
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005083

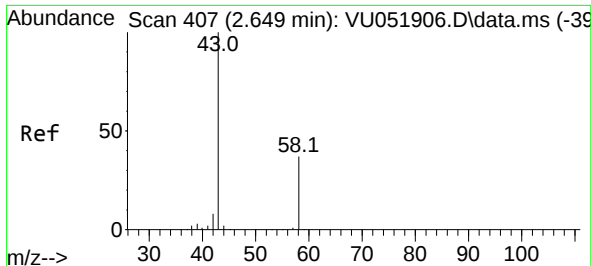
Tgt Ion:101 Resp: 91155  
Ion Ratio Lower Upper  
101 100  
85 43.5 33.8 50.6  
151 73.3 58.6 88.0



#12  
1,1-Dichloroethene  
Concen: 4.845 ug/L  
RT: 2.578 min Scan# 385  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

Tgt Ion: 96 Resp: 95012  
Ion Ratio Lower Upper  
96 100  
61 163.4 114.8 213.2  
63 127.6 93.7 174.1





#13

Acetone

Concen: 49.934 ug/L

RT: 2.658 min Scan# 410

Delta R.T. 0.010 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

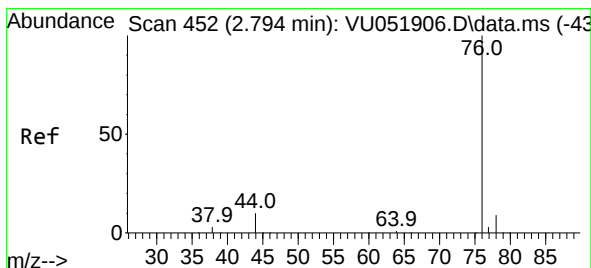
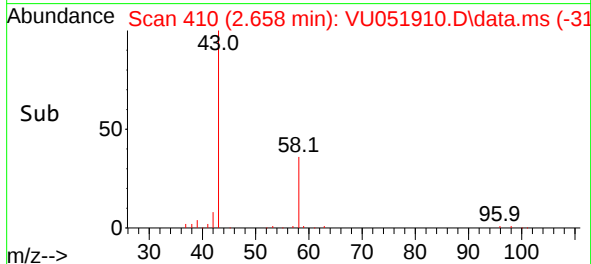
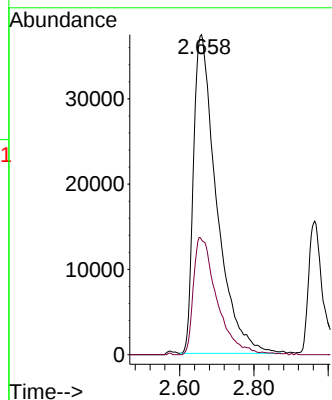
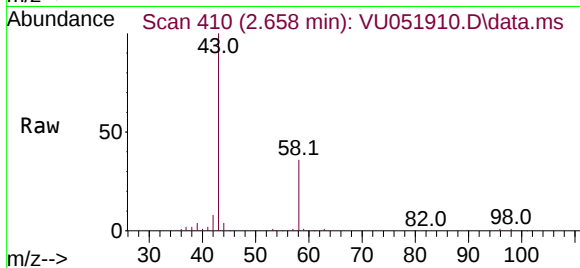
VSTD005083

Tgt Ion: 43 Resp: 161628

Ion Ratio Lower Upper

43 100

58 36.1 0.0 76.0



#14

Carbon disulfide

Concen: 4.841 ug/L

RT: 2.793 min Scan# 452

Delta R.T. -0.000 min

Lab File: VU051910.D

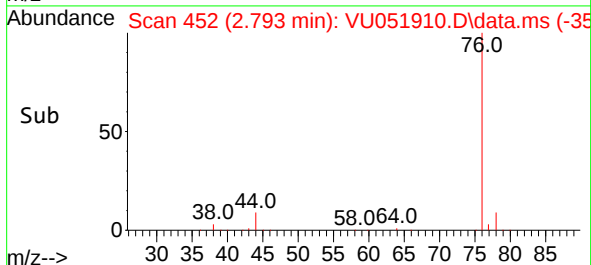
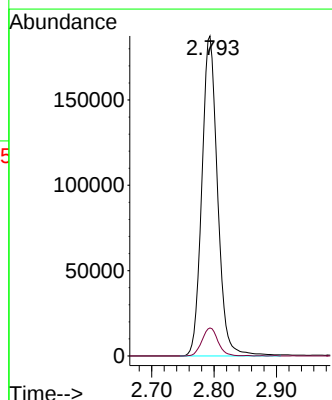
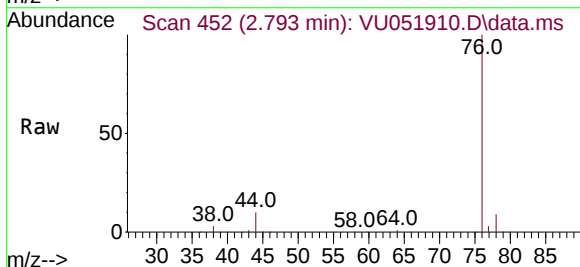
Acq: 18 Nov 2022 17:36

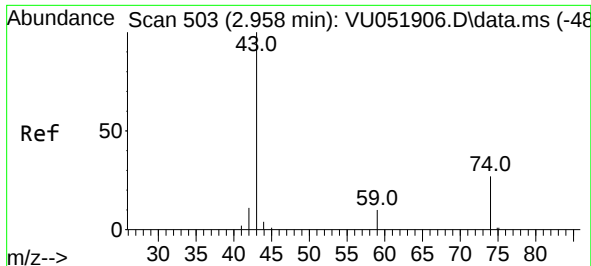
Tgt Ion: 76 Resp: 328668

Ion Ratio Lower Upper

76 100

78 8.7 7.0 10.4

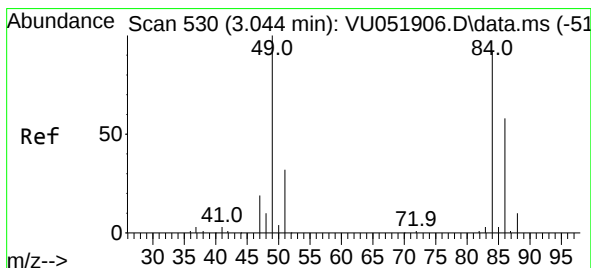
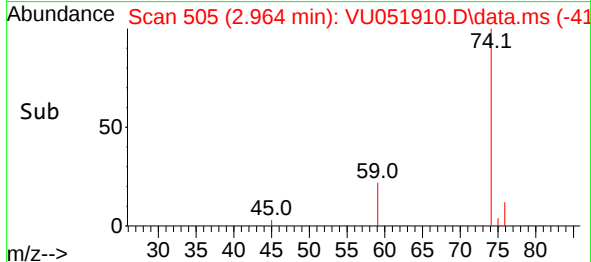
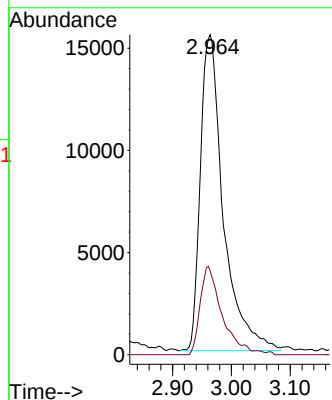
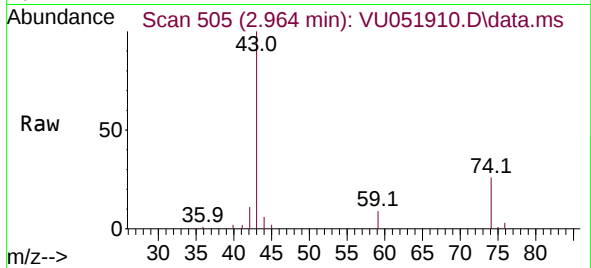




#15  
Methyl Acetate  
Concen: 4.982 ug/L  
RT: 2.964 min Scan# 503  
Delta R.T. 0.006 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

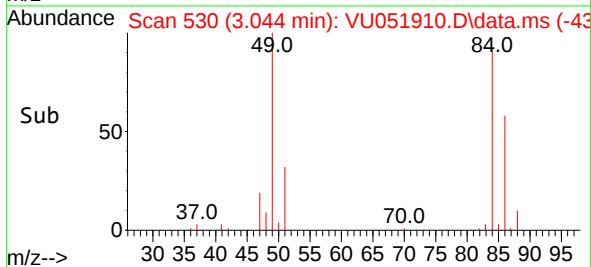
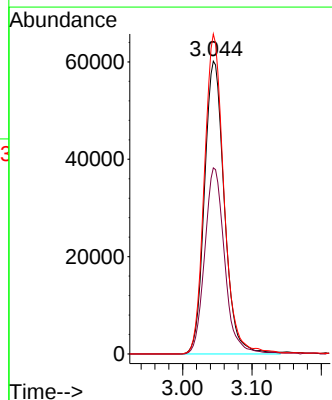
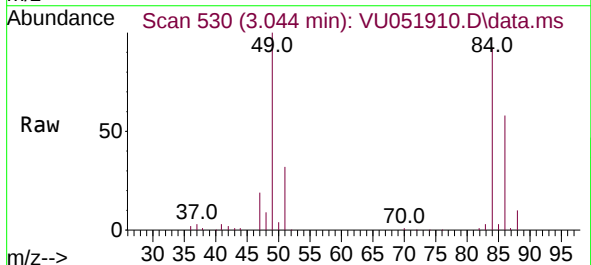
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005083

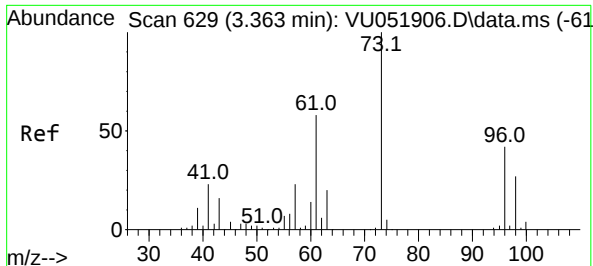
Tgt Ion: 43 Resp: 41824  
Ion Ratio Lower Upper  
43 100  
74 26.3 21.3 31.9



#16  
Methylene chloride  
Concen: 4.515 ug/L  
RT: 3.044 min Scan# 530  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

Tgt Ion: 84 Resp: 119782  
Ion Ratio Lower Upper  
84 100  
86 63.5 43.8 81.4  
49 109.3 75.9 141.1





#17

Methyl tert-butyl Ether

Concen: 5.065 ug/L

RT: 3.363 min Scan# 61

Delta R.T. -0.000 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005083

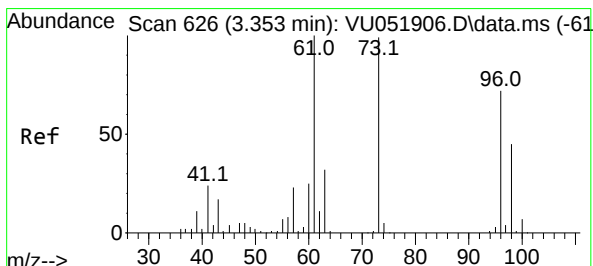
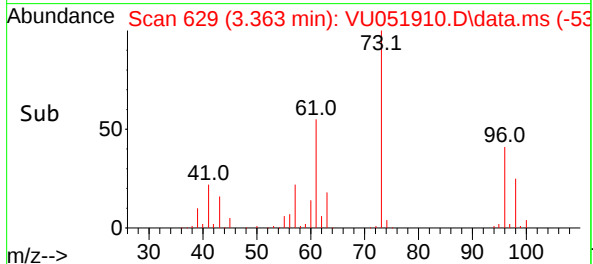
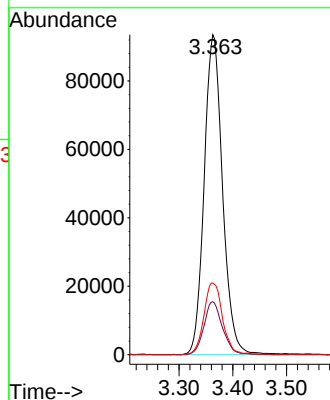
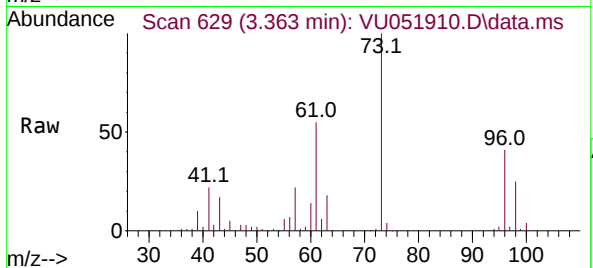
Tgt Ion: 73 Resp: 222358

Ion Ratio Lower Upper

73 100

43 16.6 13.2 19.8

57 22.6 17.8 26.8



#18

trans-1,2-Dichloroethene

Concen: 4.967 ug/L

RT: 3.353 min Scan# 626

Delta R.T. -0.000 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

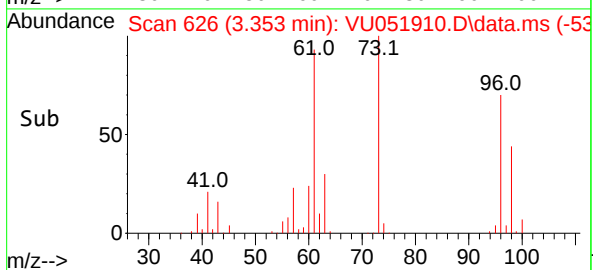
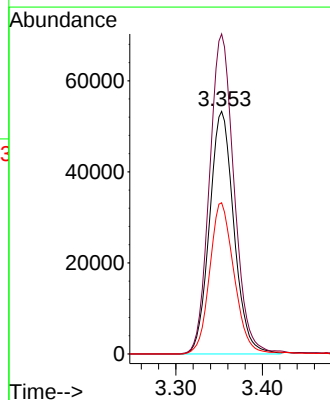
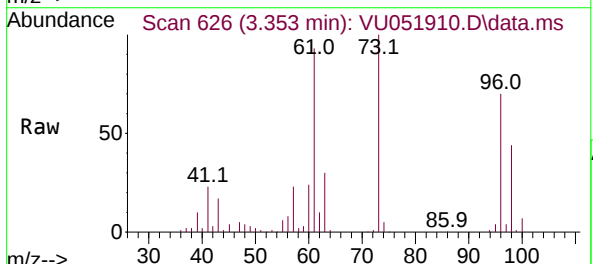
Tgt Ion: 96 Resp: 104429

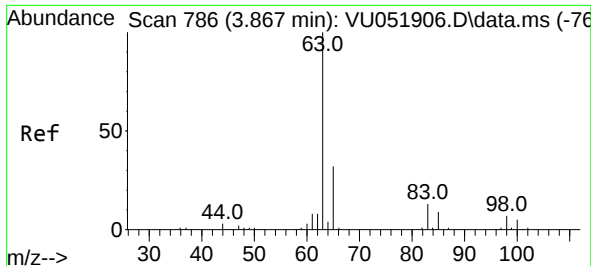
Ion Ratio Lower Upper

96 100

61 131.9 97.9 181.7

98 62.3 43.8 81.3





#19

1,1-Dichloroethane

Concen: 4.997 ug/L

RT: 3.867 min Scan# 786

Delta R.T. -0.000 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005083

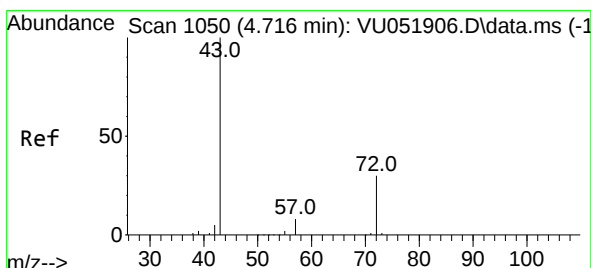
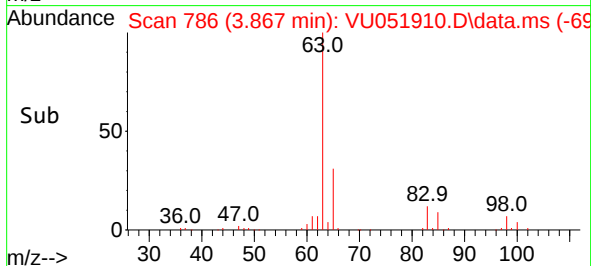
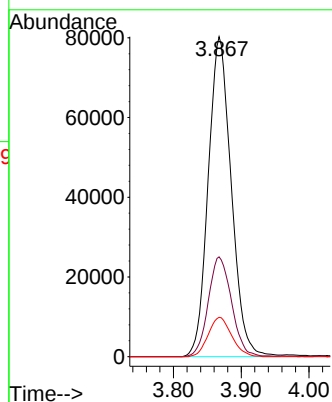
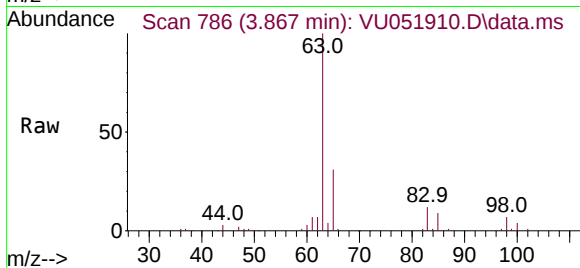
Tgt Ion: 63 Resp: 189325

Ion Ratio Lower Upper

63 100

65 31.2 22.2 41.2

83 12.3 9.2 17.0



#21

2-Butanone

Concen: 51.086 ug/L

RT: 4.719 min Scan# 1051

Delta R.T. 0.003 min

Lab File: VU051910.D

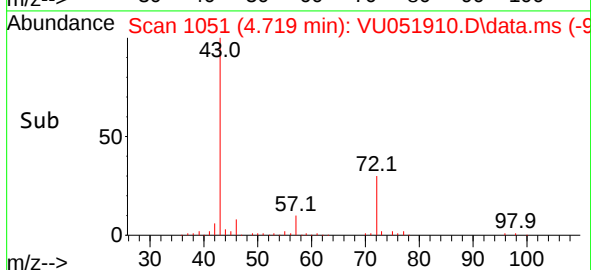
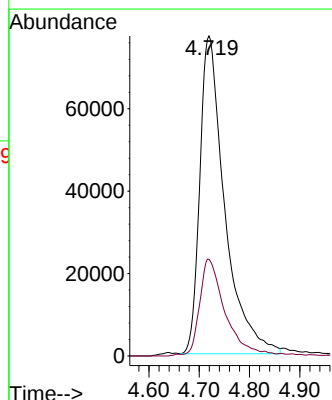
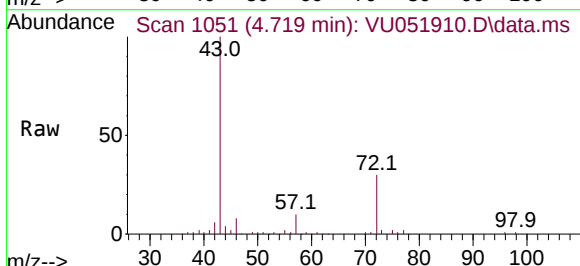
Acq: 18 Nov 2022 17:36

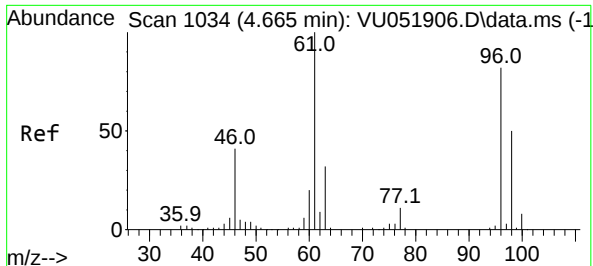
Tgt Ion: 43 Resp: 265035

Ion Ratio Lower Upper

43 100

72 29.1 15.6 46.8

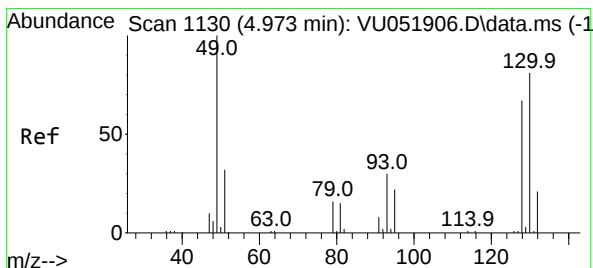
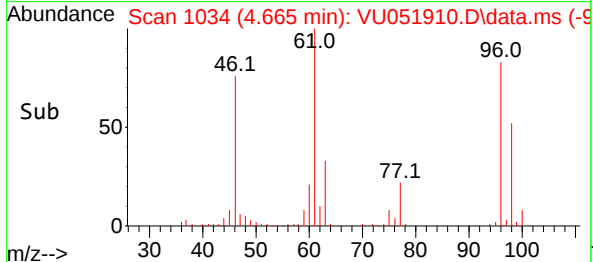
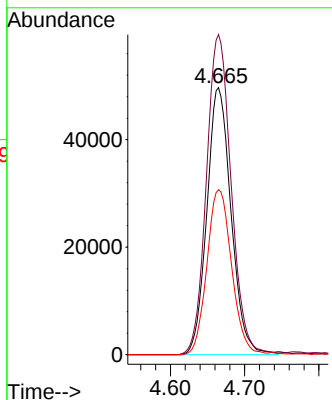
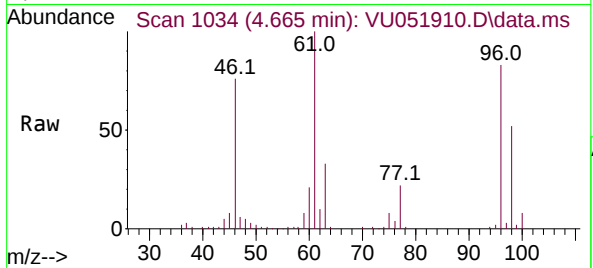




#22  
 cis-1,2-Dichloroethene  
 Concen: 5.117 ug/L  
 RT: 4.665 min Scan# 1034  
 Delta R.T. -0.000 min  
 Lab File: VU051910.D  
 Acq: 18 Nov 2022 17:36

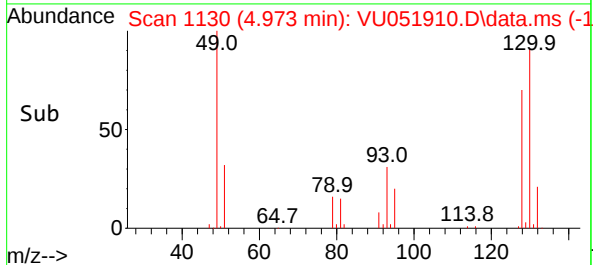
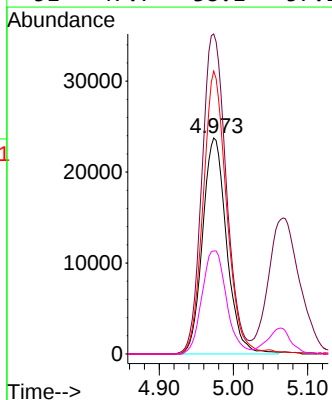
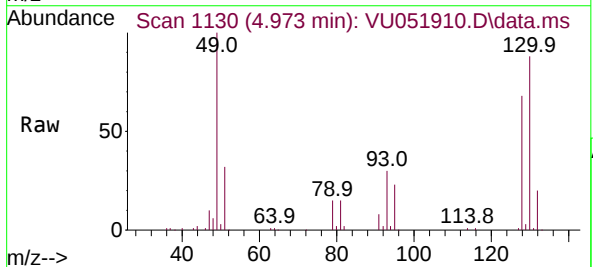
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005083

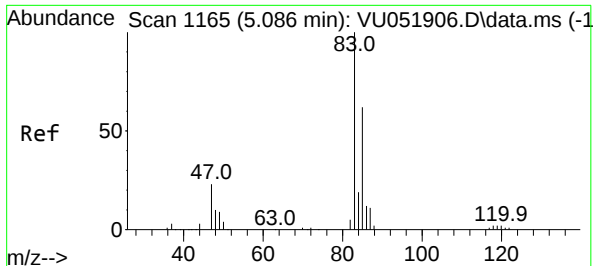
Tgt Ion: 96 Resp: 112895  
 Ion Ratio Lower Upper  
 96 100  
 61 119.8 85.1 158.1  
 98 61.8 42.8 79.6



#23  
 Bromochloromethane  
 Concen: 5.039 ug/L  
 RT: 4.973 min Scan# 1130  
 Delta R.T. -0.000 min  
 Lab File: VU051910.D  
 Acq: 18 Nov 2022 17:36

Tgt Ion: 128 Resp: 53194  
 Ion Ratio Lower Upper  
 128 100  
 49 148.1 104.0 193.2  
 130 130.9 84.6 157.2  
 51 47.7 38.1 57.1





#25

Chloroform

Concen: 5.019 ug/L

RT: 5.089 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

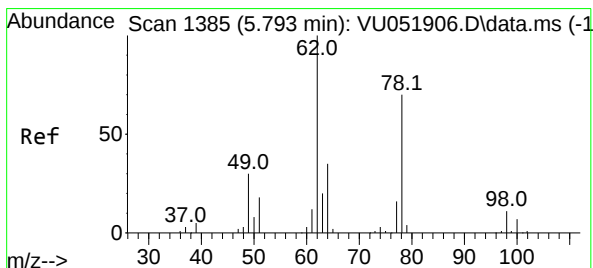
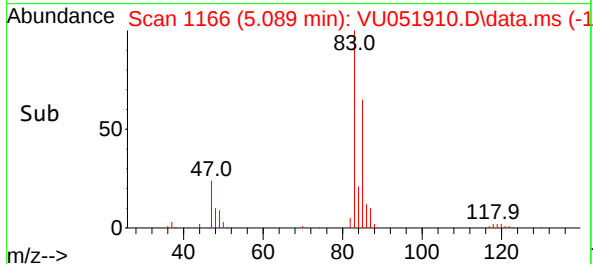
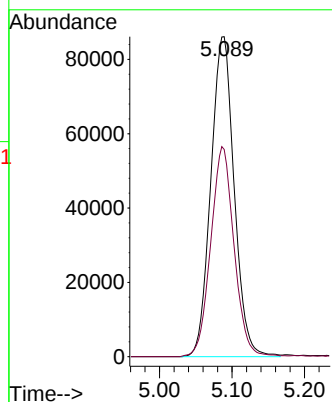
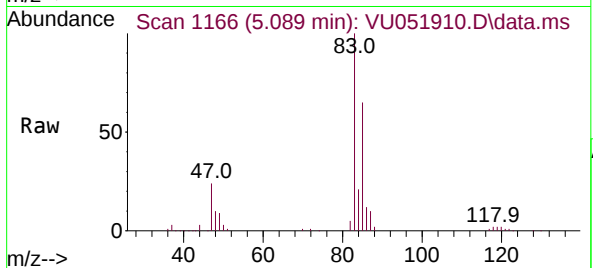
VSTD005083

Tgt Ion: 83 Resp: 192682

Ion Ratio Lower Upper

83 100

85 64.8 43.8 81.4



#27

1,2-Dichloroethane

Concen: 5.049 ug/L

RT: 5.793 min Scan# 1385

Delta R.T. -0.000 min

Lab File: VU051910.D

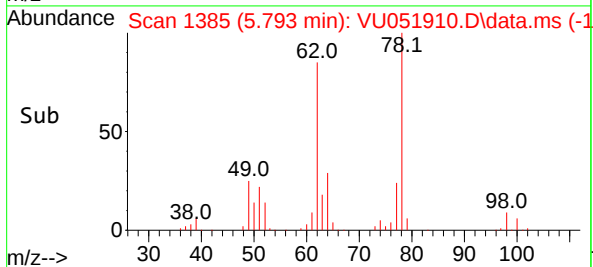
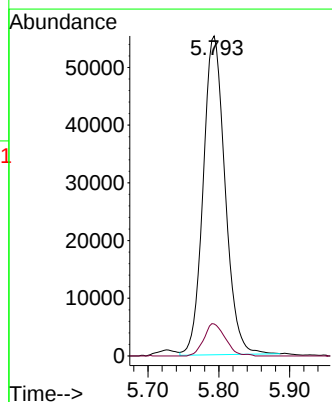
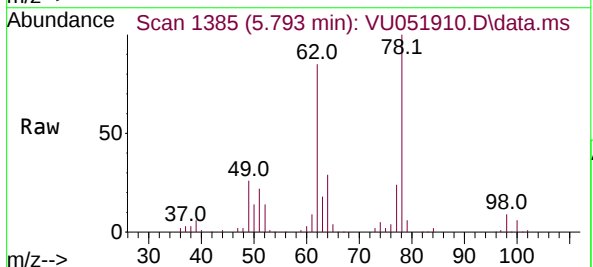
Acq: 18 Nov 2022 17:36

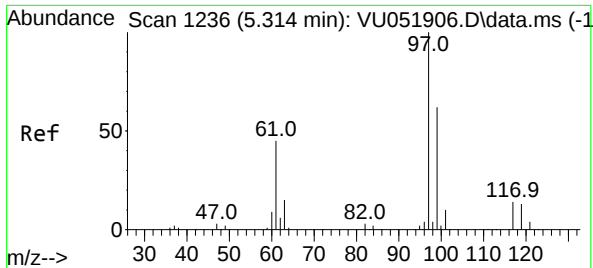
Tgt Ion: 62 Resp: 118717

Ion Ratio Lower Upper

62 100

98 10.0 8.4 12.6

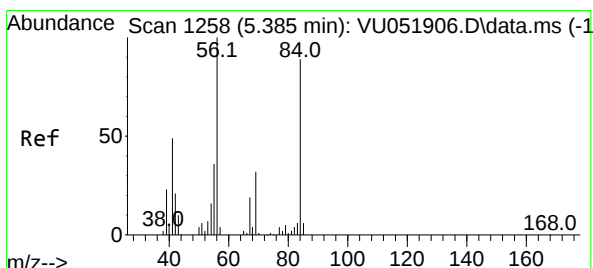
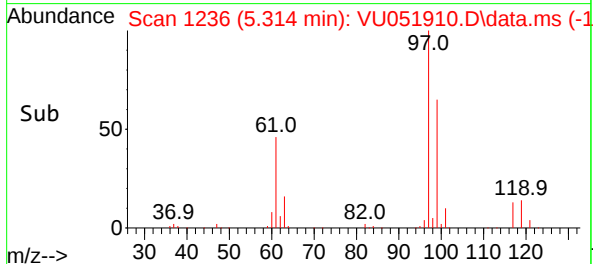
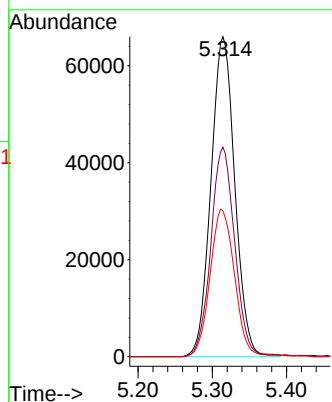
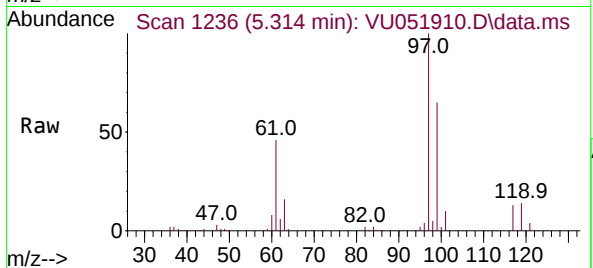




#29  
1,1,1-Trichloroethane  
Concen: 4.994 ug/L  
RT: 5.314 min Scan# 1236  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

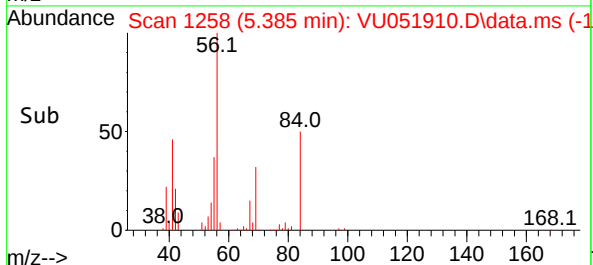
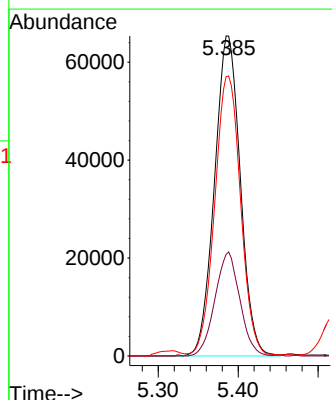
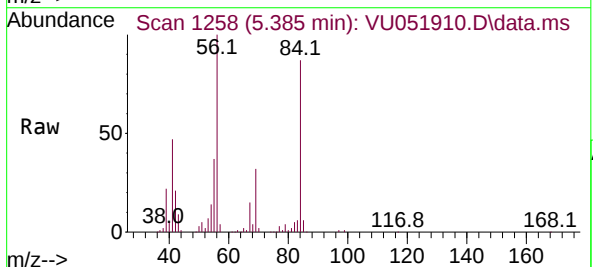
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005083

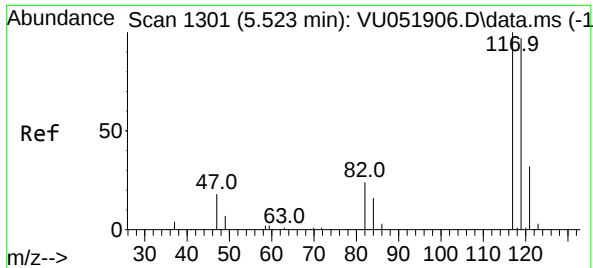
Tgt Ion: 97 Resp: 147432  
Ion Ratio Lower Upper  
97 100  
99 65.1 51.0 76.6  
61 47.2 36.9 55.3



#30  
Cyclohexane  
Concen: 5.109 ug/L  
RT: 5.385 min Scan# 1258  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

Tgt Ion: 56 Resp: 146465  
Ion Ratio Lower Upper  
56 100  
69 31.2 25.6 38.4  
84 87.2 72.0 108.0

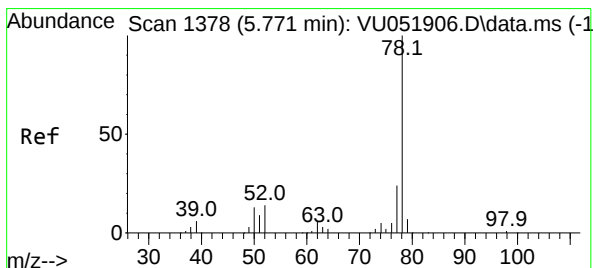
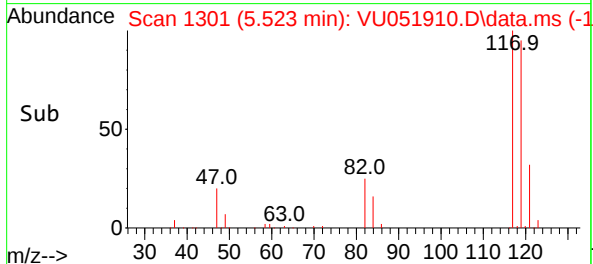
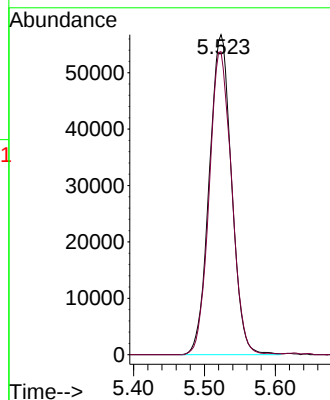
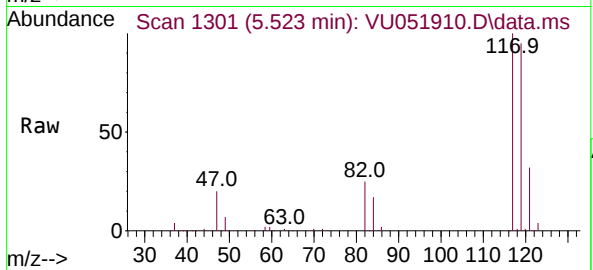




#31  
Carbon tetrachloride  
Concen: 4.948 ug/L  
RT: 5.523 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

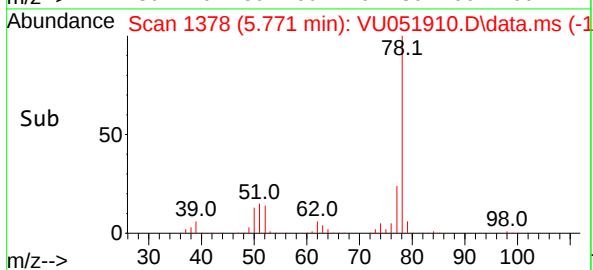
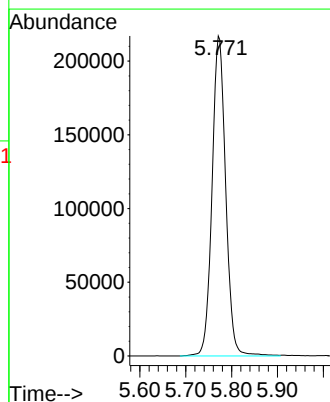
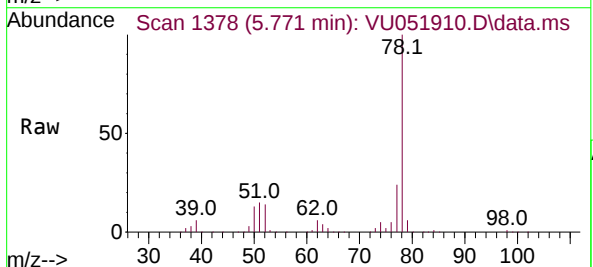
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005083

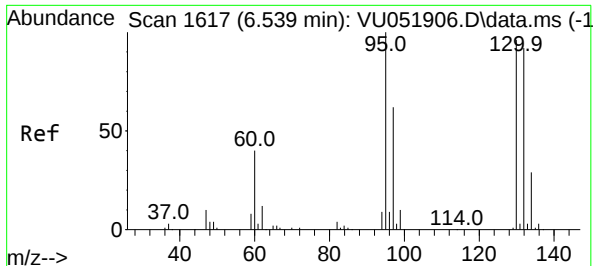
Tgt Ion:117 Resp: 124124  
Ion Ratio Lower Upper  
117 100  
119 95.1 77.2 115.8



#33  
Benzene  
Concen: 5.175 ug/L  
RT: 5.771 min Scan# 1378  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

Tgt Ion: 78 Resp: 448205



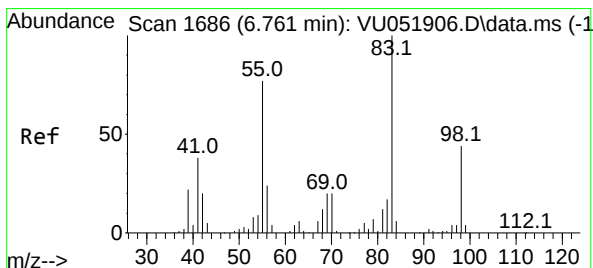
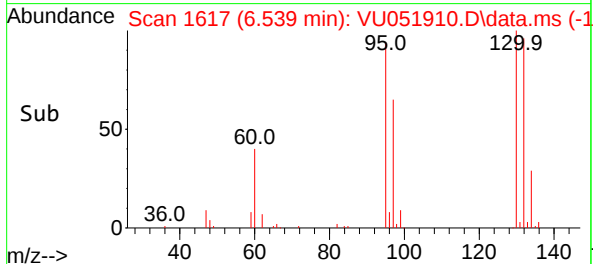
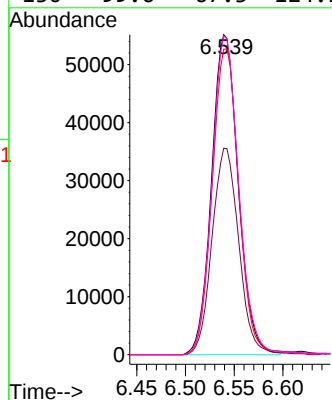
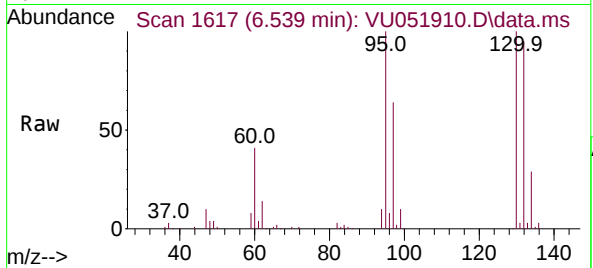


#34  
Trichloroethene  
Concen: 4.869 ug/L  
RT: 6.539 min Scan# 1617  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005083

Tgt Ion: 95 Resp: 105182

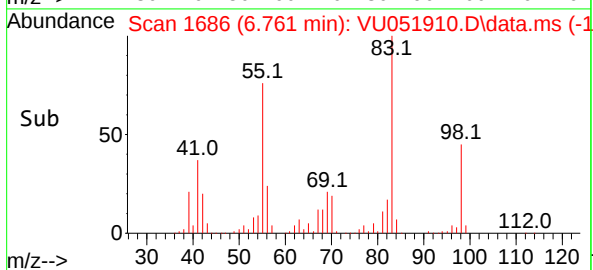
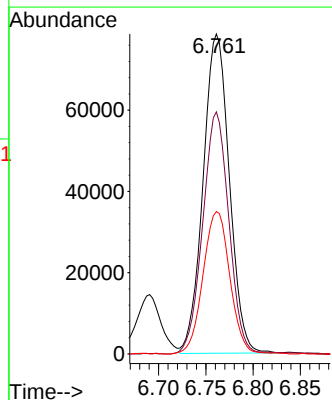
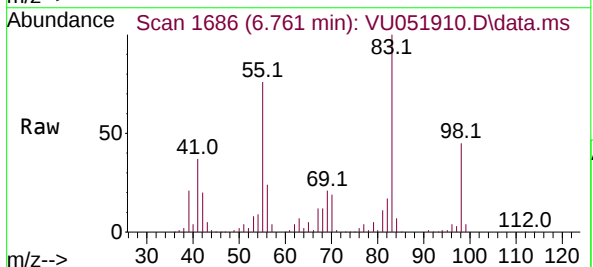
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.5  | 43.7  | 81.1  |
| 132 | 95.4  | 64.3  | 119.3 |
| 130 | 99.6  | 67.3  | 124.9 |

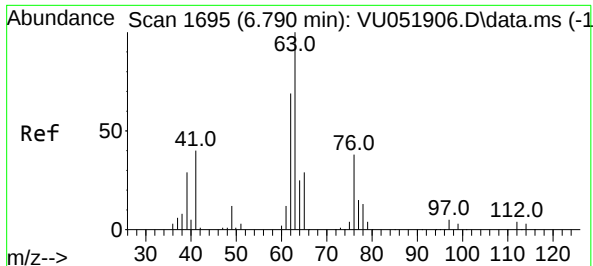


#35  
Methylcyclohexane  
Concen: 4.881 ug/L  
RT: 6.761 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

Tgt Ion: 83 Resp: 151671

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 75.8  | 60.8  | 91.2  |
| 98  | 45.6  | 35.1  | 52.7  |





#37

1,2-Dichloropropane

Concen: 5.085 ug/L

RT: 6.787 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

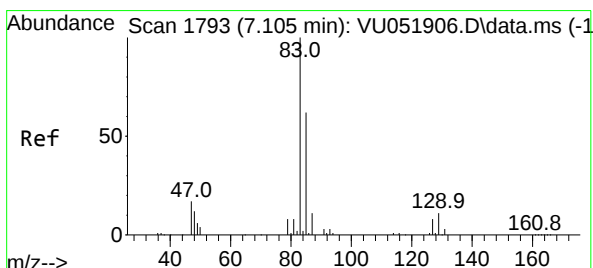
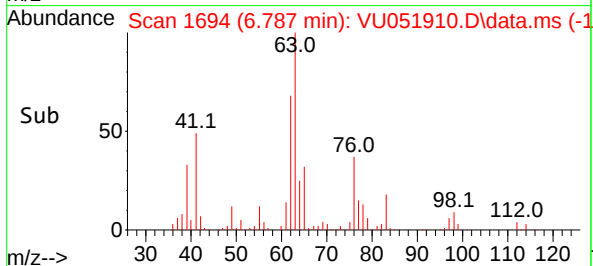
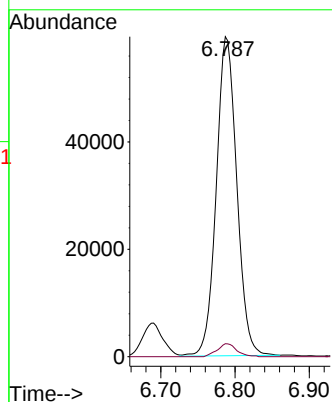
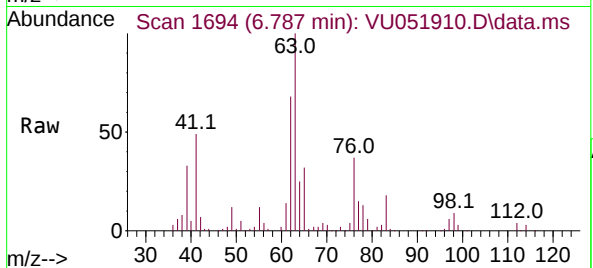
VSTD005083

Tgt Ion: 63 Resp: 114020

Ion Ratio Lower Upper

63 100

112 3.9 3.3 4.9



#38

Bromodichloromethane

Concen: 4.989 ug/L

RT: 7.102 min Scan# 1792

Delta R.T. -0.003 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

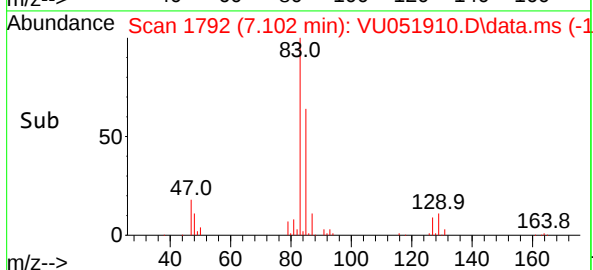
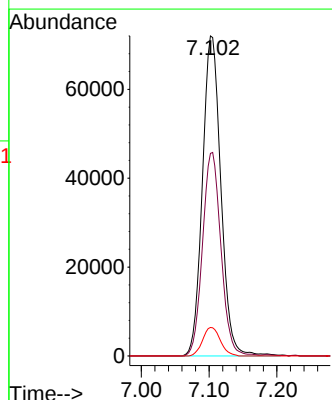
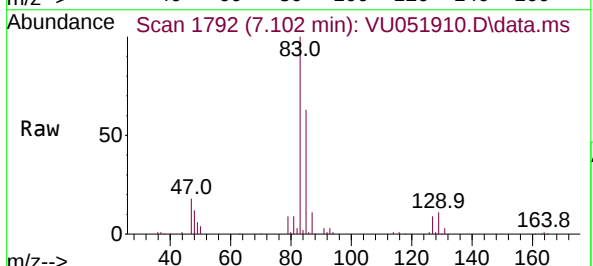
Tgt Ion: 83 Resp: 136389

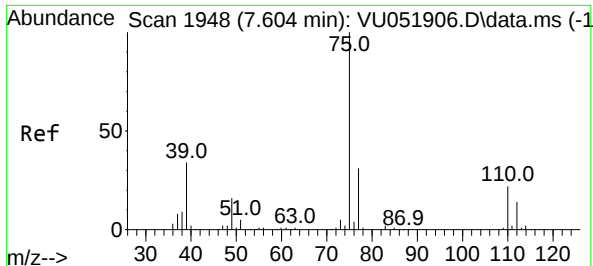
Ion Ratio Lower Upper

83 100

85 63.3 43.5 80.9

127 8.9 6.8 10.2





#39

cis-1,3-Dichloropropene

Concen: 5.170 ug/L

RT: 7.607 min Scan# 1948

Delta R.T. 0.003 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

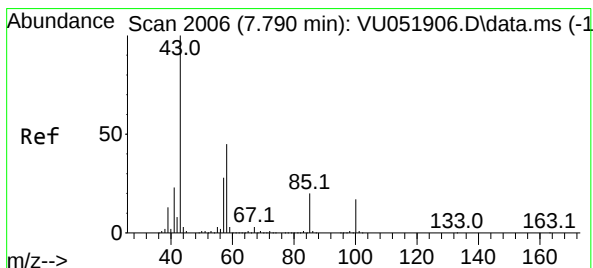
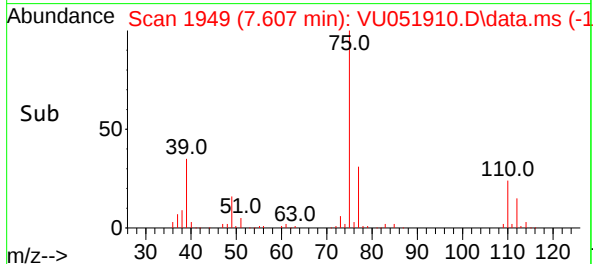
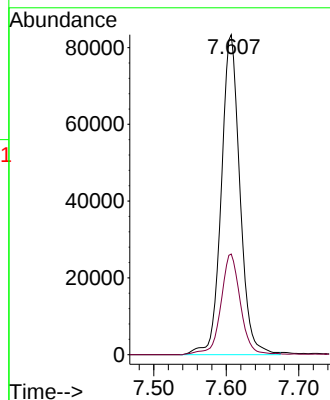
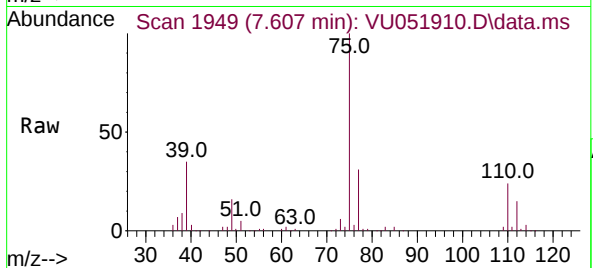
VSTD005083

Tgt Ion: 75 Resp: 148847

Ion Ratio Lower Upper

75 100

77 31.5 22.0 40.8



#40

4-Methyl-2-pentanone

Concen: 54.694 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. -0.000 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

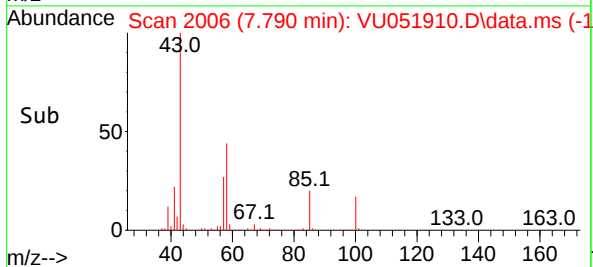
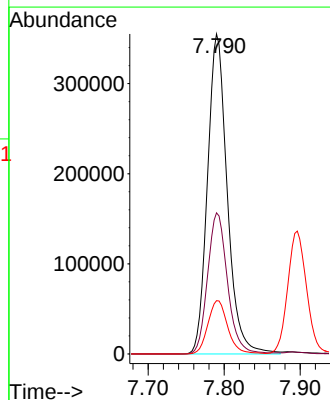
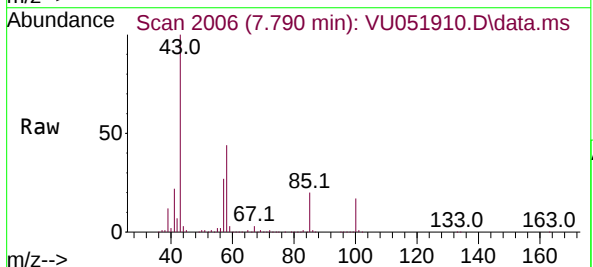
Tgt Ion: 43 Resp: 640612

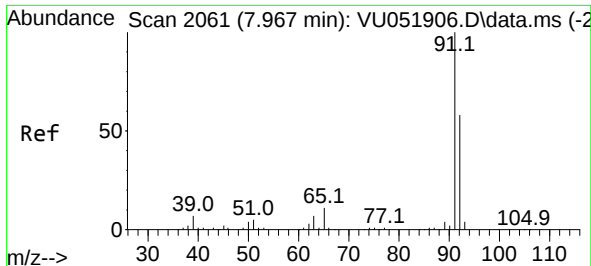
Ion Ratio Lower Upper

43 100

58 44.5 35.3 52.9

100 16.8 13.6 20.4





#42

Toluene

Concen: 5.298 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. -0.000 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

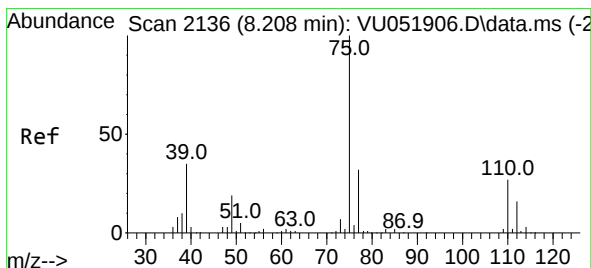
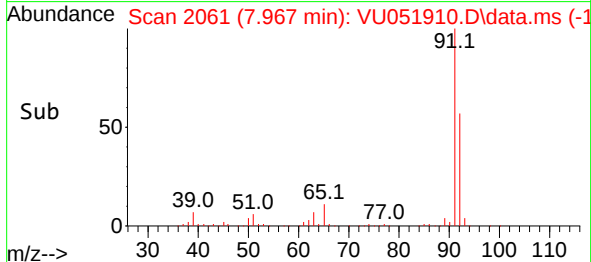
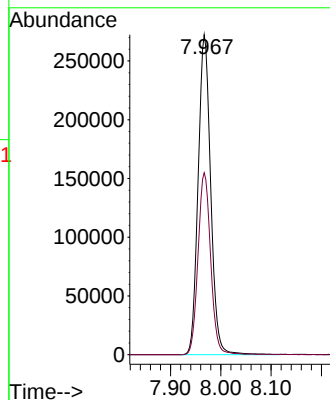
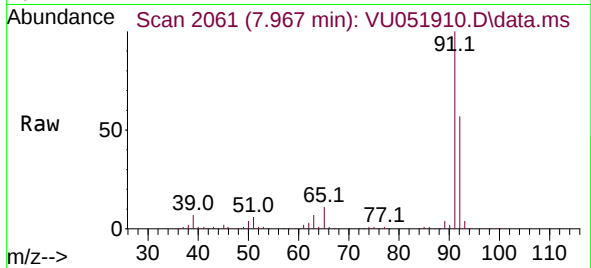
VSTD005083

Tgt Ion: 91 Resp: 471984

Ion Ratio Lower Upper

91 100

92 56.9 40.7 75.5



#44

trans-1,3-Dichloropropene

Concen: 5.166 ug/L

RT: 8.208 min Scan# 2136

Delta R.T. -0.000 min

Lab File: VU051910.D

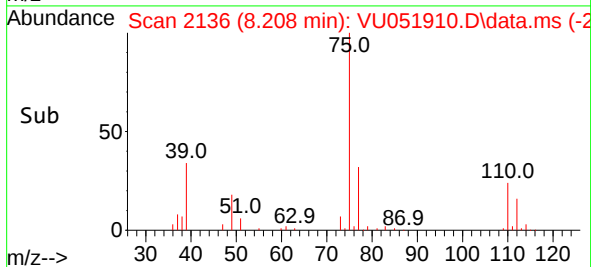
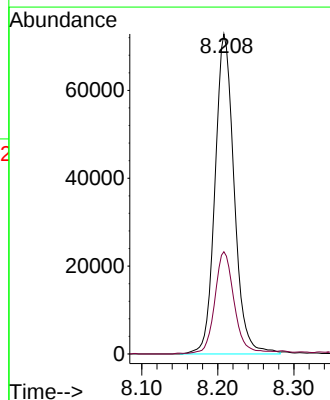
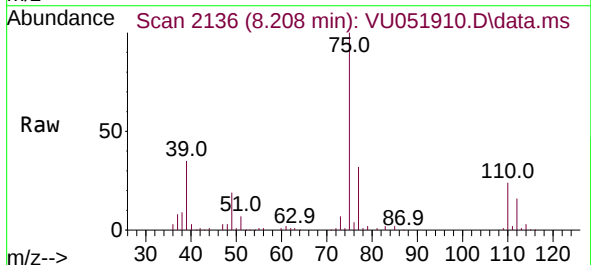
Acq: 18 Nov 2022 17:36

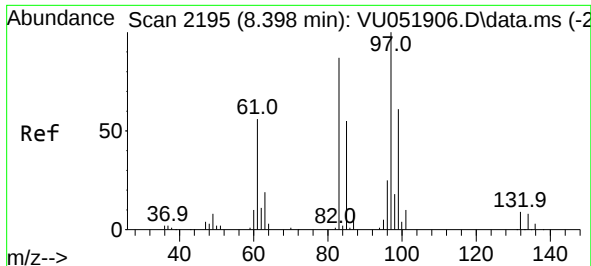
Tgt Ion: 75 Resp: 127352

Ion Ratio Lower Upper

75 100

77 32.0 22.6 42.0





#45

1,1,2-Trichloroethane

Concen: 5.112 ug/L

RT: 8.398 min Scan# 2195

Delta R.T. -0.000 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005083

Tgt Ion: 97 Resp: 86140

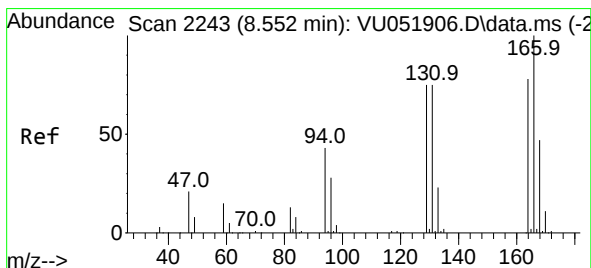
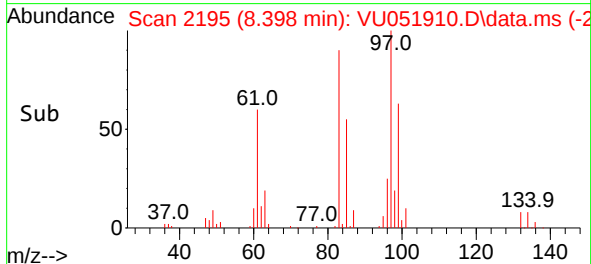
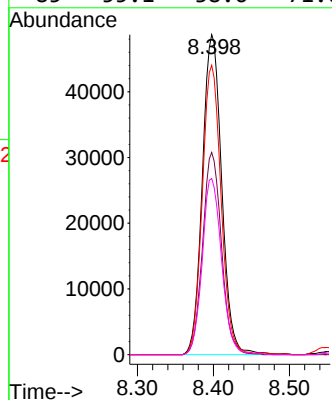
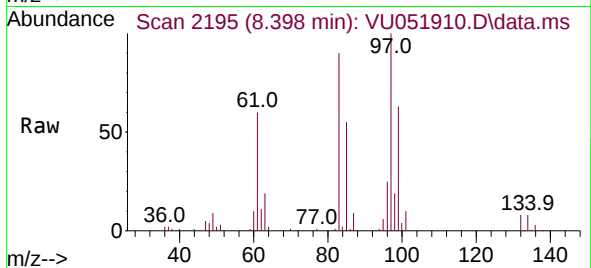
Ion Ratio Lower Upper

97 100

99 63.2 42.6 79.2

83 90.5 60.7 112.7

85 55.1 38.6 71.6



#47

Tetrachloroethene

Concen: 4.943 ug/L

RT: 8.552 min Scan# 2243

Delta R.T. -0.000 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

Tgt Ion:164 Resp: 81824

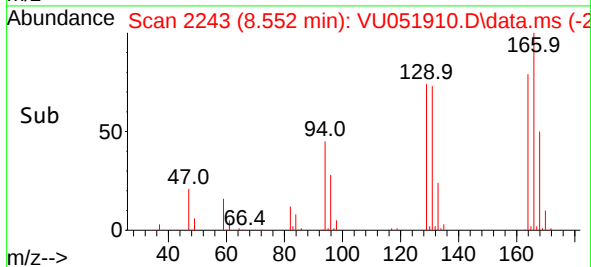
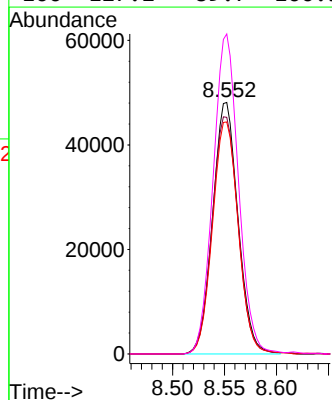
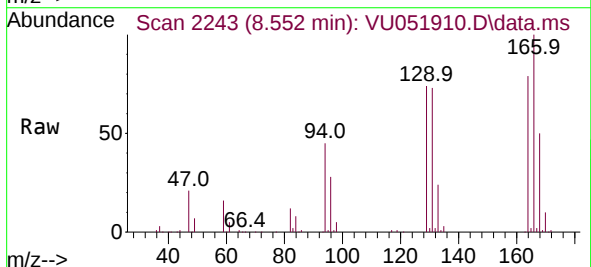
Ion Ratio Lower Upper

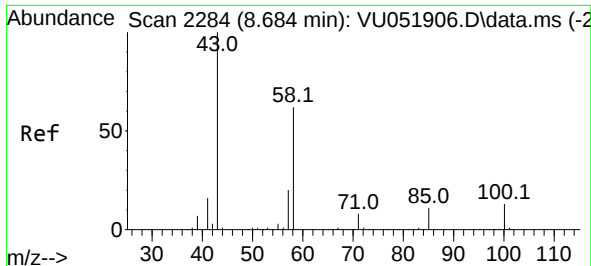
164 100

129 94.1 67.4 125.2

131 92.2 67.1 124.7

166 127.2 89.7 166.5

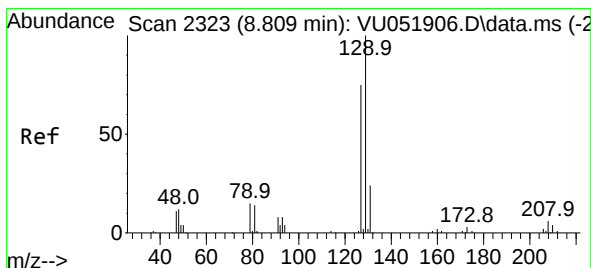
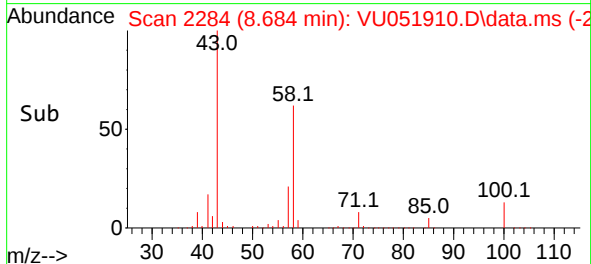
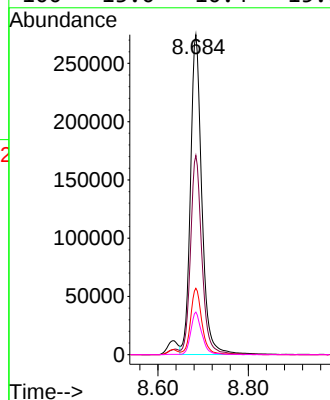
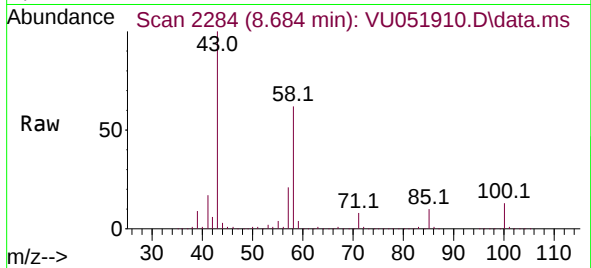




#48  
2-Hexanone  
Concen: 55.887 ug/L  
RT: 8.684 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

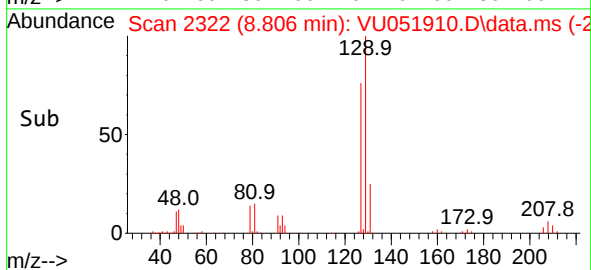
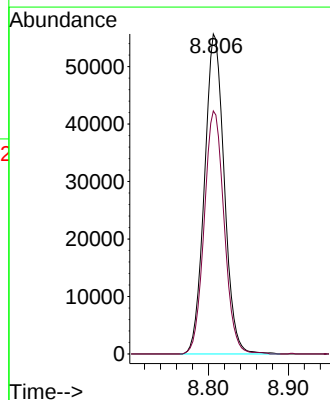
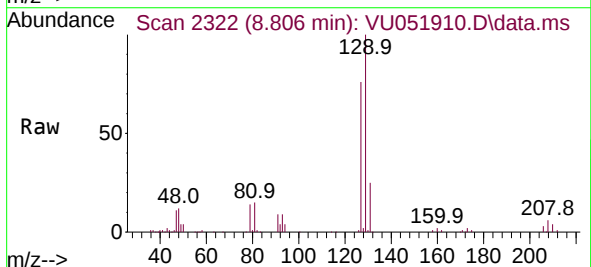
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005083

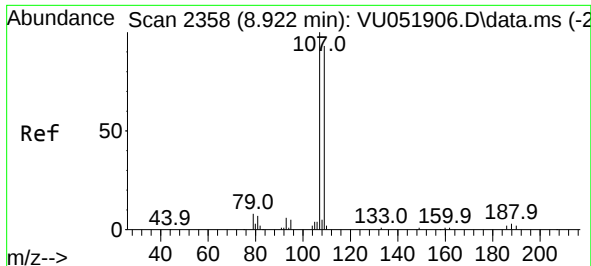
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 479884 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 61.4  | 49.4  | 74.0   |
| 57       | 20.9  | 16.3  | 24.5   |
| 100      | 13.0  | 10.4  | 15.6   |



#49  
Dibromochloromethane  
Concen: 5.072 ug/L  
RT: 8.806 min Scan# 2322  
Delta R.T. -0.003 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 95722 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 76.0  | 52.8  | 98.2  |

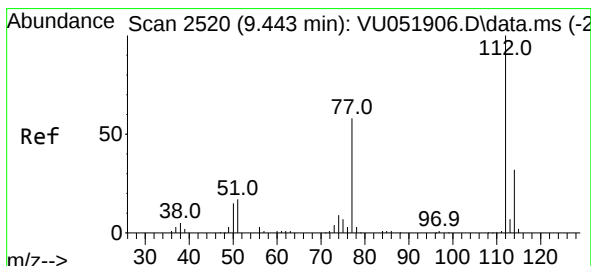
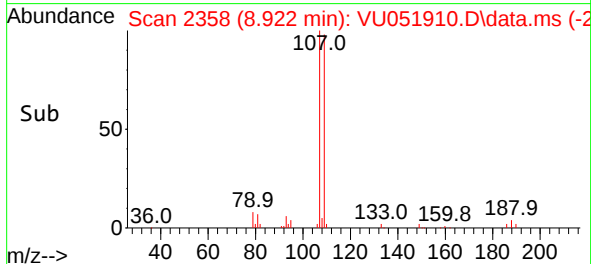
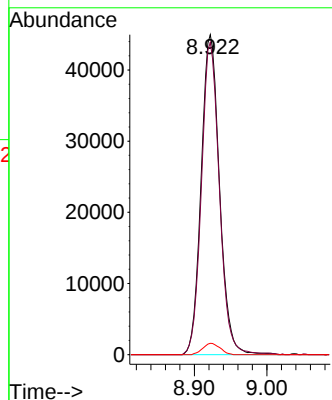
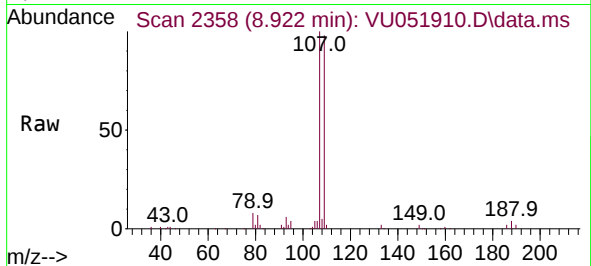




#50  
1,2-Dibromoethane  
Concen: 5.162 ug/L  
RT: 8.922 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

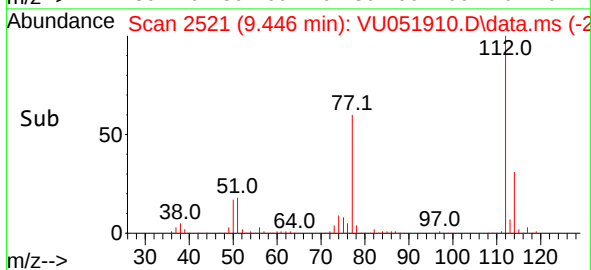
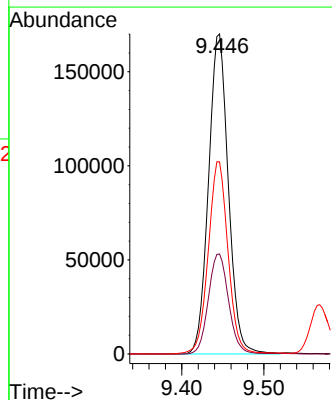
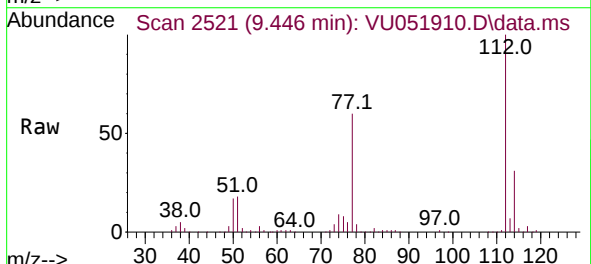
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005083

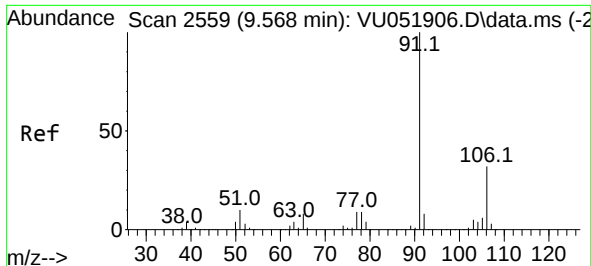
Tgt Ion:107 Resp: 79222  
Ion Ratio Lower Upper  
107 100  
109 97.6 64.9 120.5  
188 3.6 2.6 4.0



#51  
Chlorobenzene  
Concen: 5.017 ug/L  
RT: 9.446 min Scan# 2521  
Delta R.T. 0.003 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

Tgt Ion:112 Resp: 284961  
Ion Ratio Lower Upper  
112 100  
114 31.3 22.2 41.2  
77 60.0 46.6 70.0





#52

Ethylbenzene

Concen: 5.226 ug/L

RT: 9.568 min Scan# 2559

Delta R.T. -0.000 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

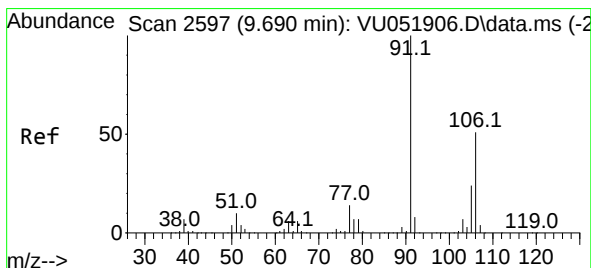
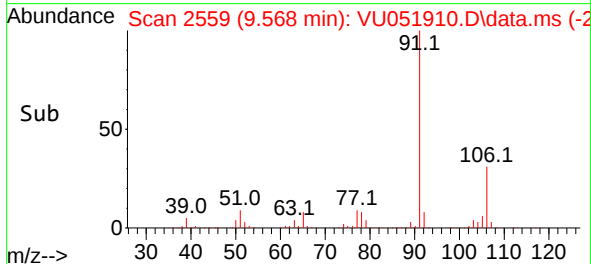
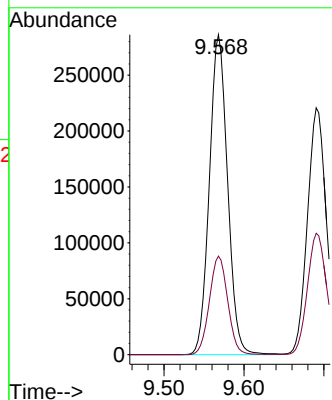
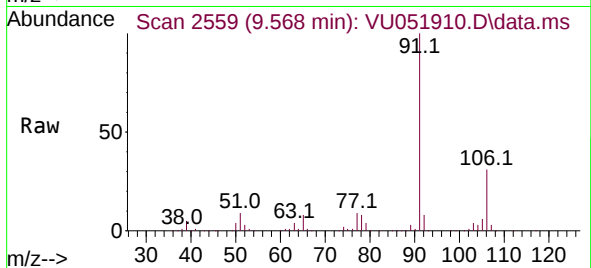
VSTD005083

Tgt Ion: 91 Resp: 452583

Ion Ratio Lower Upper

91 100

106 30.8 22.3 41.3



#53

m,p-Xylene

Concen: 5.418 ug/L

RT: 9.690 min Scan# 2597

Delta R.T. -0.000 min

Lab File: VU051910.D

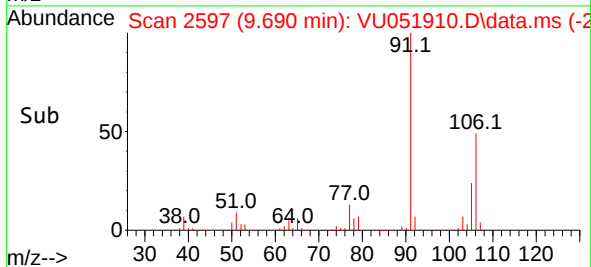
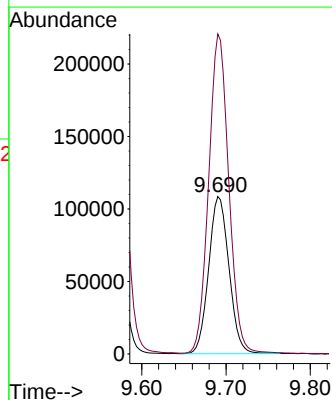
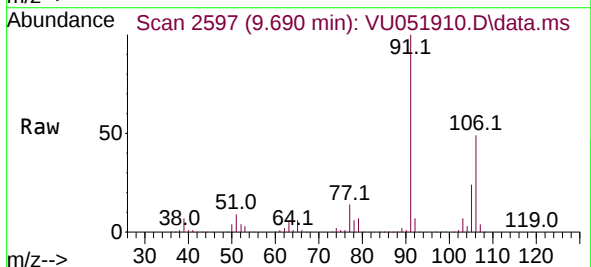
Acq: 18 Nov 2022 17:36

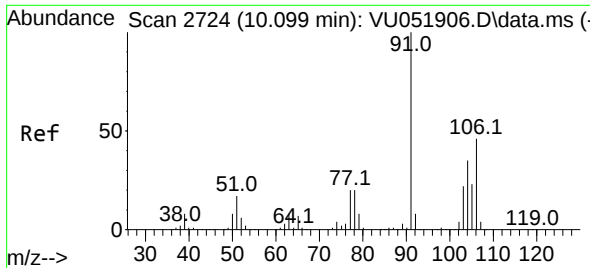
Tgt Ion: 106 Resp: 181708

Ion Ratio Lower Upper

106 100

91 203.3 137.7 255.7

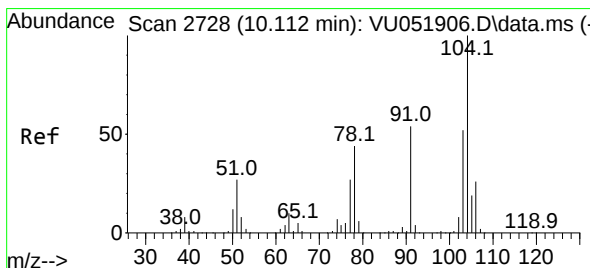
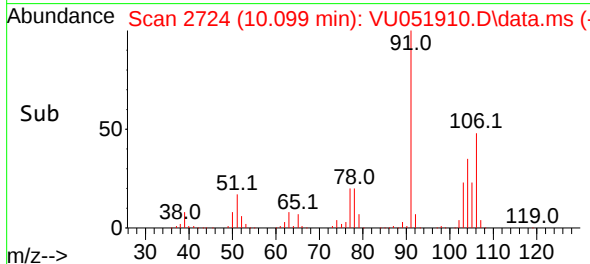
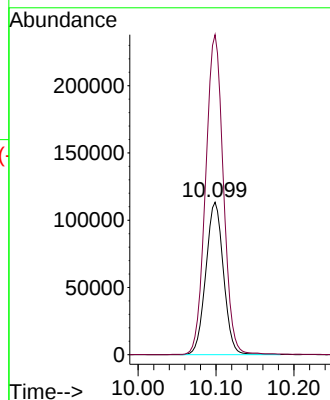
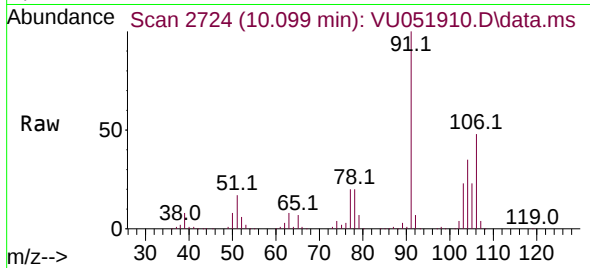




#54  
o-Xylene  
Concen: 5.559 ug/L  
RT: 10.099 min Scan# 2724  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

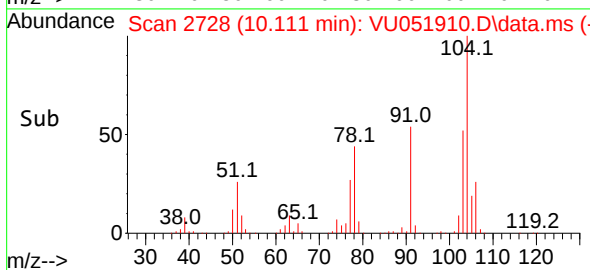
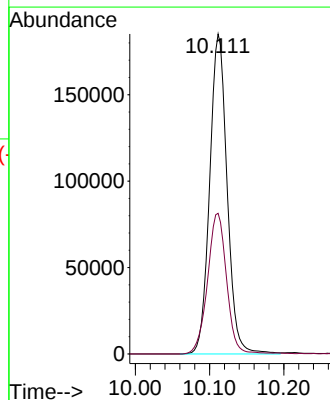
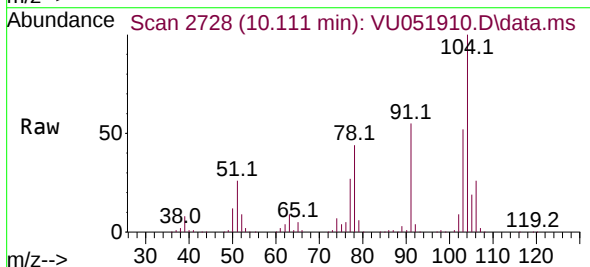
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005083

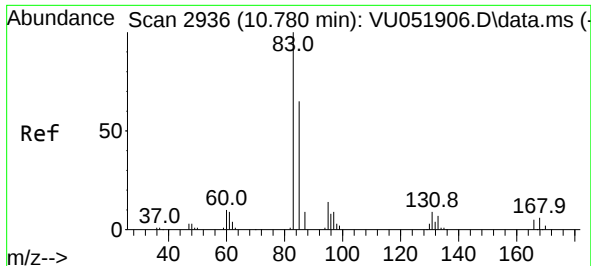
Tgt Ion:106 Resp: 178667  
Ion Ratio Lower Upper  
106 100  
91 209.9 151.5 281.5



#55  
Styrene  
Concen: 5.556 ug/L  
RT: 10.111 min Scan# 2728  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

Tgt Ion:104 Resp: 301635  
Ion Ratio Lower Upper  
104 100  
78 44.0 30.6 56.8





#57

1,1,2,2-Tetrachloroethane

Concen: 5.128 ug/L

RT: 10.780 min Scan# 2936

Delta R.T. -0.000 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005083

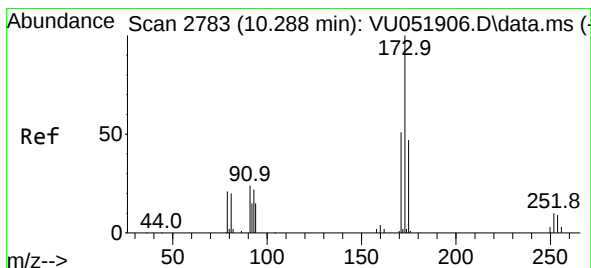
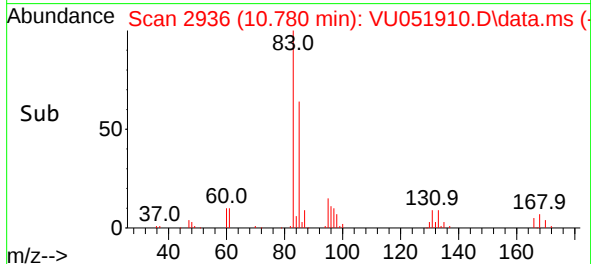
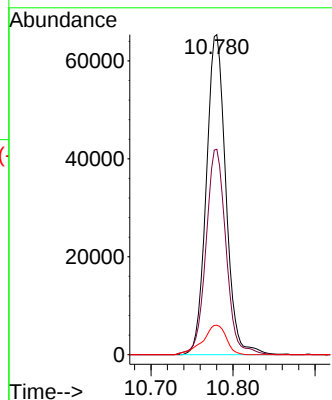
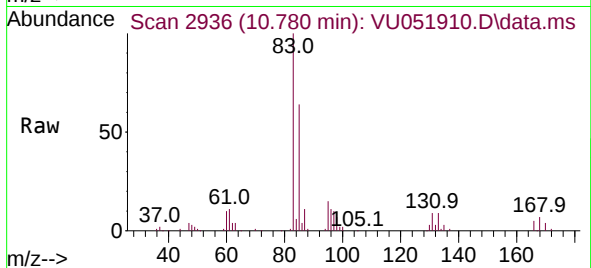
Tgt Ion: 83 Resp: 107917

Ion Ratio Lower Upper

83 100

85 64.2 45.7 84.9

131 9.2 7.6 11.4



#59

Bromoform

Concen: 5.034 ug/L

RT: 10.288 min Scan# 2783

Delta R.T. -0.000 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

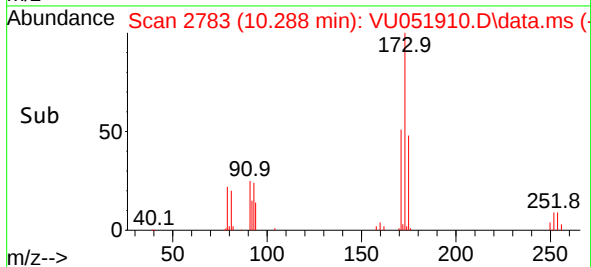
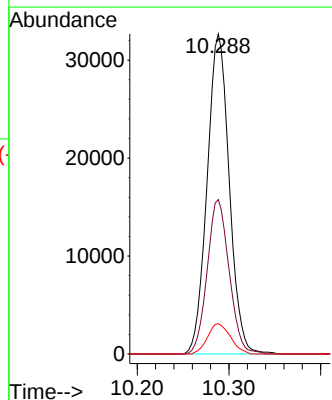
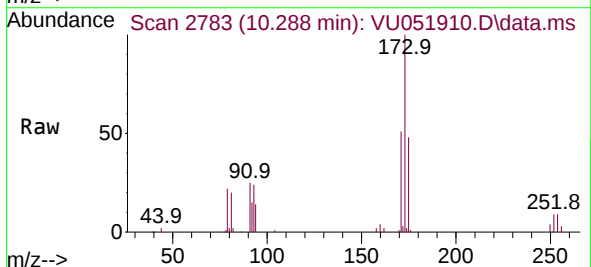
Tgt Ion:173 Resp: 54723

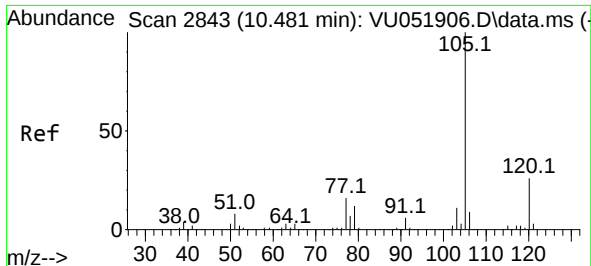
Ion Ratio Lower Upper

173 100

175 47.8 37.2 55.8

254 9.8 7.0 10.6

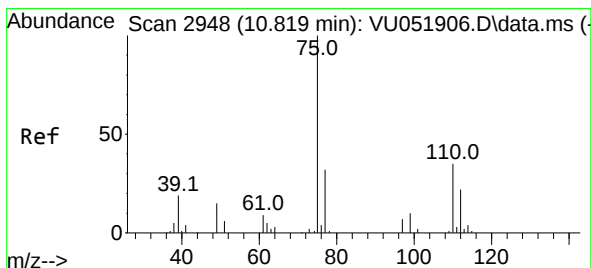
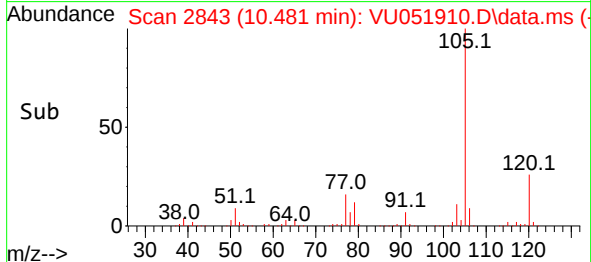
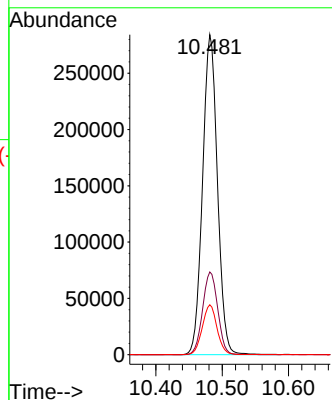
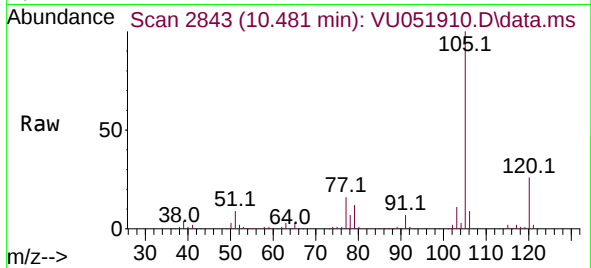




#60  
Isopropylbenzene  
Concen: 5.336 ug/L  
RT: 10.481 min Scan# 2843  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

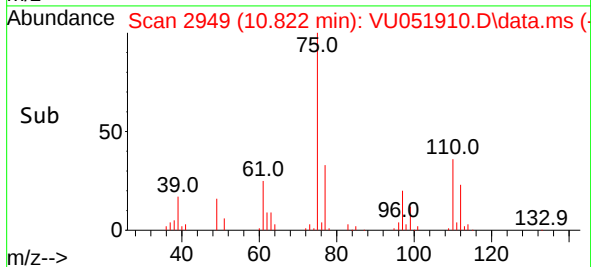
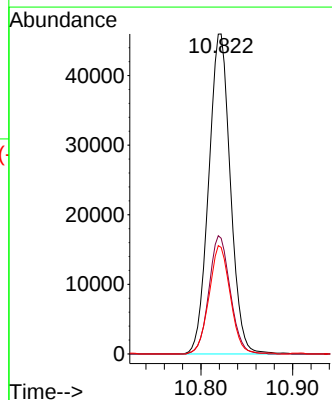
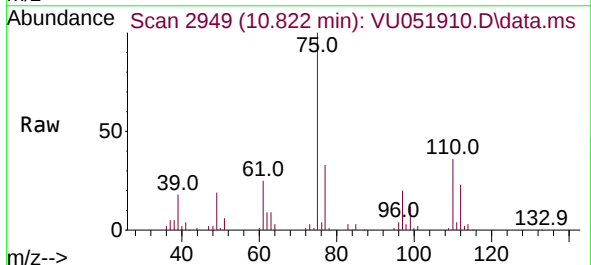
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005083

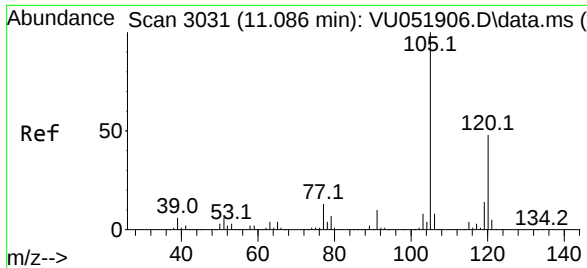
Tgt Ion:105 Resp: 442306  
Ion Ratio Lower Upper  
105 100  
120 26.3 21.0 31.6  
77 15.5 12.5 18.7



#61  
1,2,3-Trichloropropane  
Concen: 4.995 ug/L  
RT: 10.822 min Scan# 2949  
Delta R.T. 0.003 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

Tgt Ion: 75 Resp: 75454  
Ion Ratio Lower Upper  
75 100  
110 36.2 28.3 42.5  
77 33.1 26.2 39.2

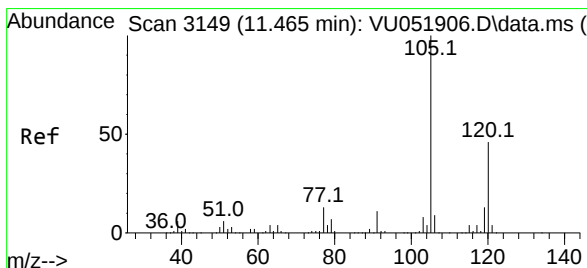
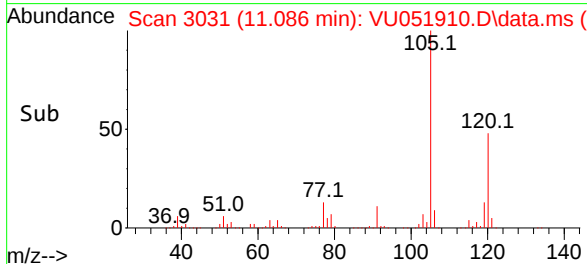
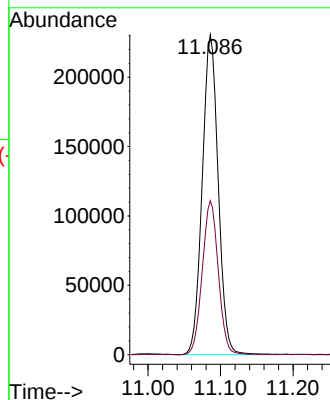
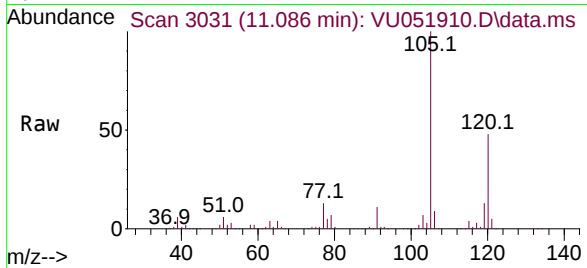




#62  
 1,3,5-Trimethylbenzene  
 Concen: 5.340 ug/L  
 RT: 11.086 min Scan# 3031  
 Delta R.T. -0.000 min  
 Lab File: VU051910.D  
 Acq: 18 Nov 2022 17:36

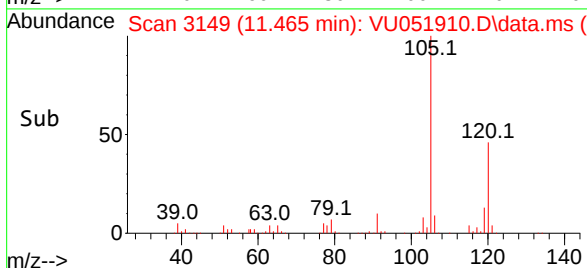
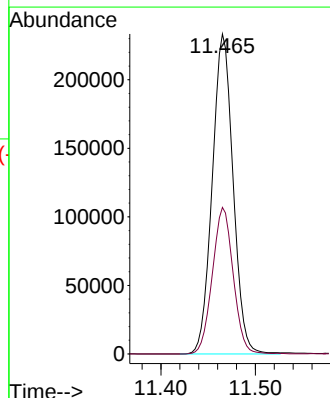
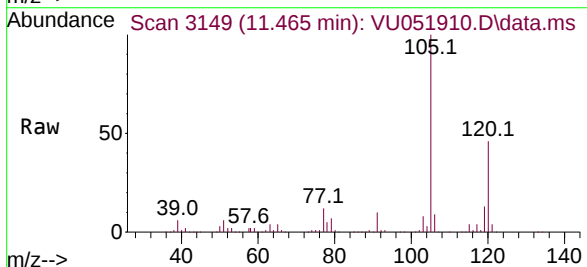
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 MSVOA\_U  
 ClientSampleId :  
 VSTD005083

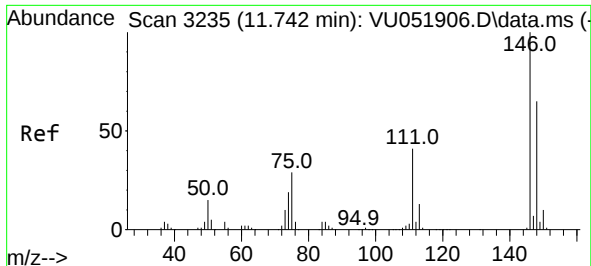
Tgt Ion:105 Resp: 353892  
 Ion Ratio Lower Upper  
 105 100  
 120 48.2 38.7 58.1



#63  
 1,2,4-Trimethylbenzene  
 Concen: 5.432 ug/L  
 RT: 11.465 min Scan# 3149  
 Delta R.T. -0.000 min  
 Lab File: VU051910.D  
 Acq: 18 Nov 2022 17:36

Tgt Ion:105 Resp: 357288  
 Ion Ratio Lower Upper  
 105 100  
 120 45.9 36.6 55.0

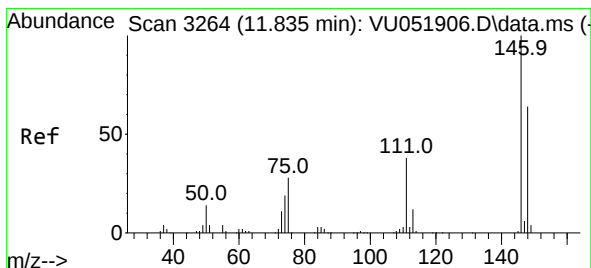
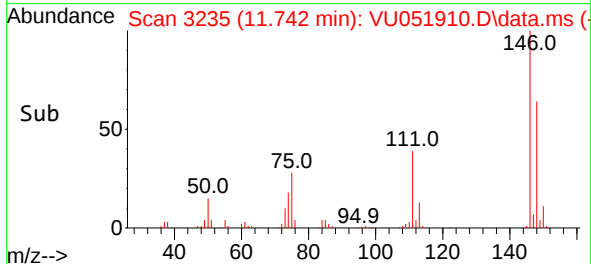
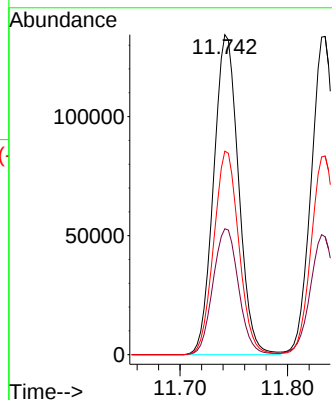
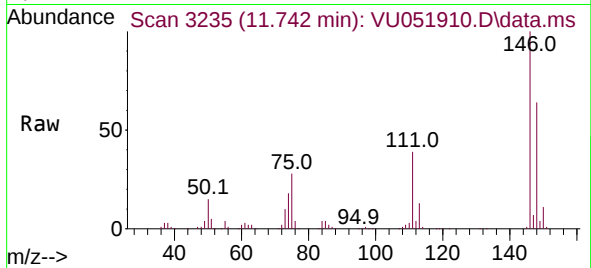




#64  
 1,3-Dichlorobenzene  
 Concen: 5.115 ug/L  
 RT: 11.742 min Scan# 3235  
 Delta R.T. -0.000 min  
 Lab File: VU051910.D  
 Acq: 18 Nov 2022 17:36

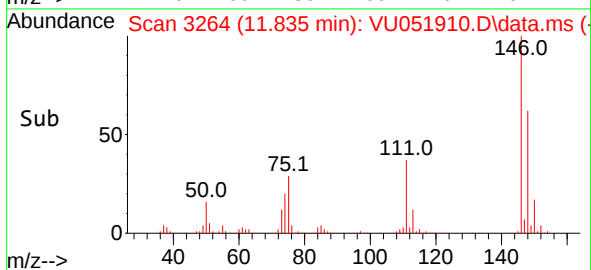
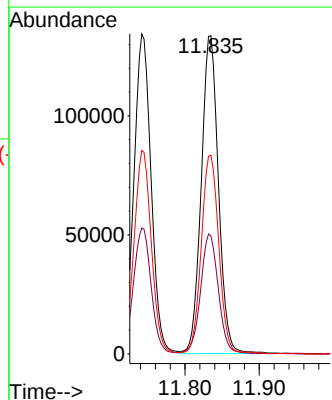
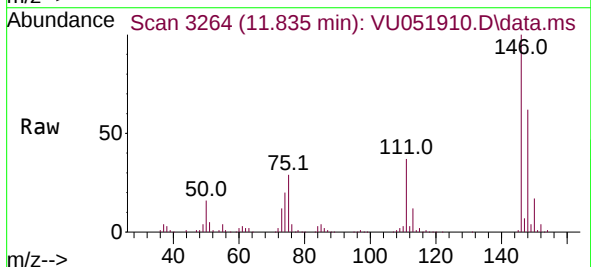
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005083

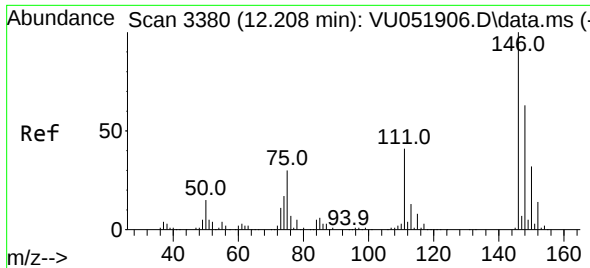
Tgt Ion:146 Resp: 216510  
 Ion Ratio Lower Upper  
 146 100  
 111 39.4 28.6 53.2  
 148 63.6 45.4 84.2



#65  
 1,4-Dichlorobenzene  
 Concen: 5.086 ug/L  
 RT: 11.835 min Scan# 3264  
 Delta R.T. -0.000 min  
 Lab File: VU051910.D  
 Acq: 18 Nov 2022 17:36

Tgt Ion:146 Resp: 214716  
 Ion Ratio Lower Upper  
 146 100  
 111 37.0 26.9 50.1  
 148 62.4 45.1 83.7





#67

1,2-Dichlorobenzene

Concen: 5.189 ug/L

RT: 12.208 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005083

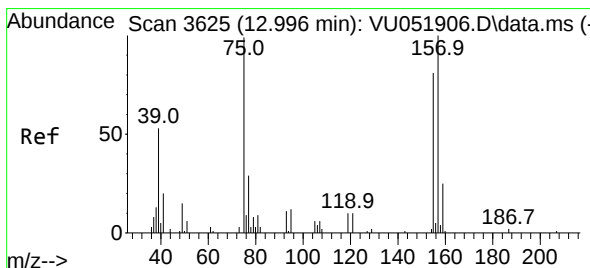
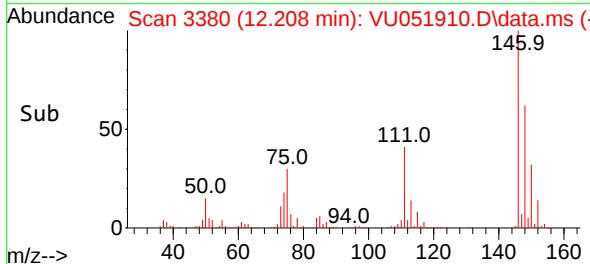
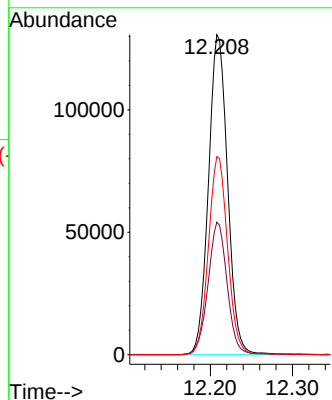
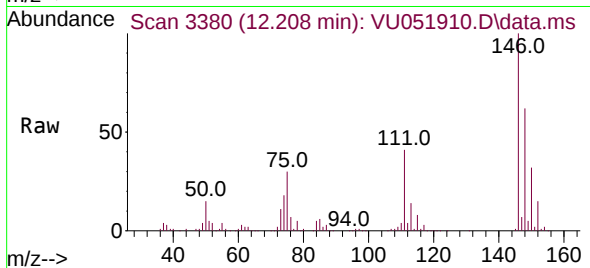
Tgt Ion:146 Resp: 211519

Ion Ratio Lower Upper

146 100

111 41.4 32.7 49.1

148 61.9 50.6 75.8



#68

1,2-Dibromo-3-chloropropane

Concen: 4.629 ug/L

RT: 12.992 min Scan# 3624

Delta R.T. -0.003 min

Lab File: VU051910.D

Acq: 18 Nov 2022 17:36

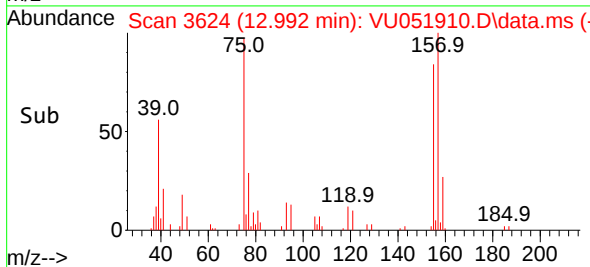
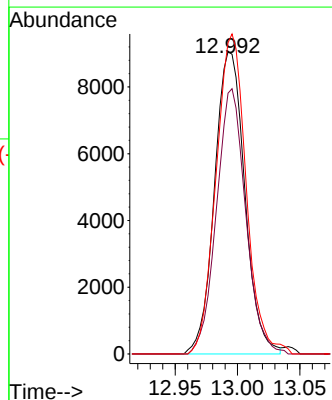
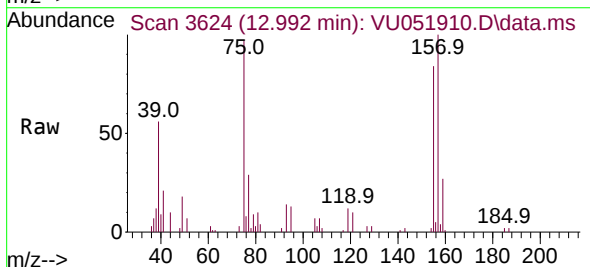
Tgt Ion: 75 Resp: 15302

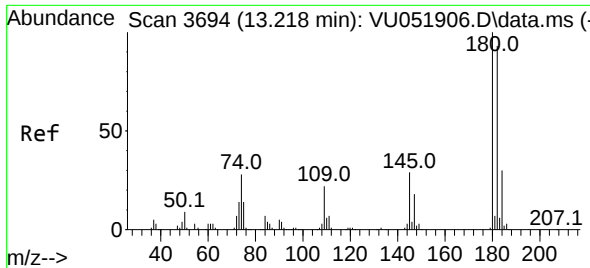
Ion Ratio Lower Upper

75 100

155 86.2 65.4 98.2

157 102.9 80.5 120.7

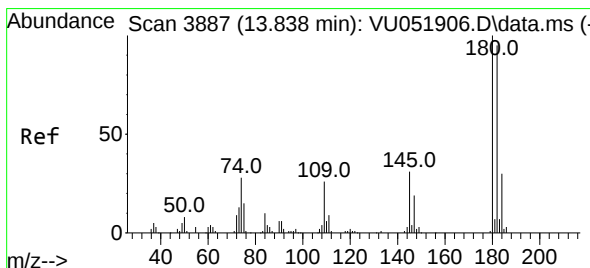
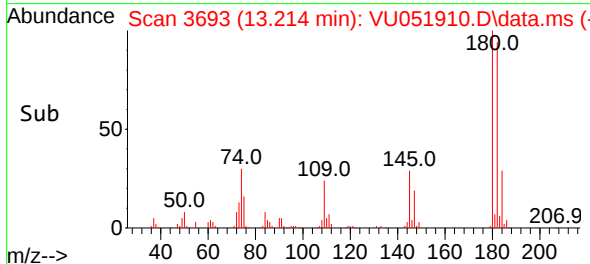
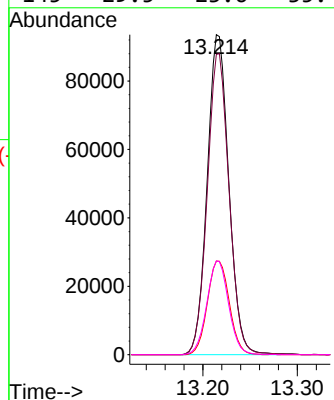
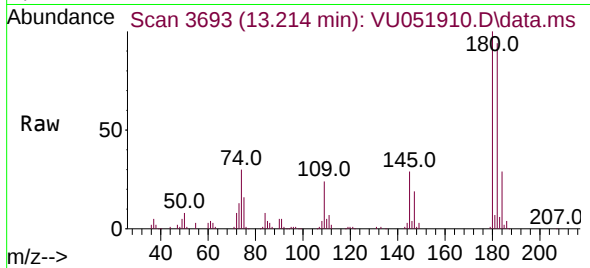




#69  
 1,3,5-Trichlorobenzene  
 Concen: 4.947 ug/L  
 RT: 13.214 min Scan# 3693  
 Delta R.T. -0.003 min  
 Lab File: VU051910.D  
 Acq: 18 Nov 2022 17:36

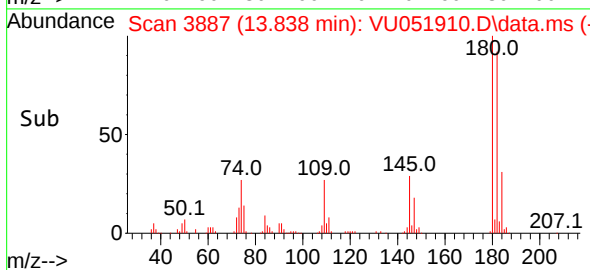
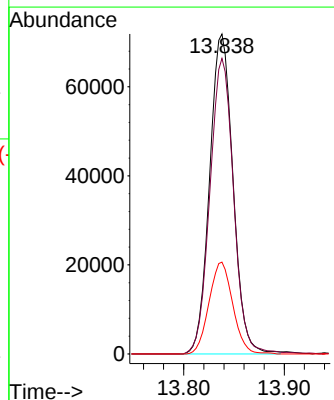
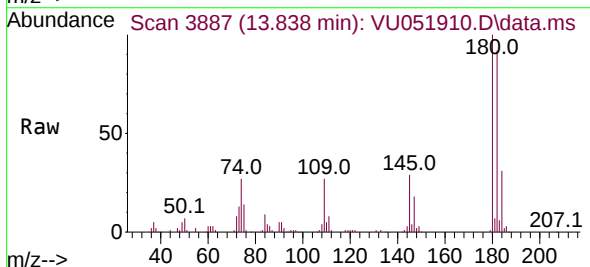
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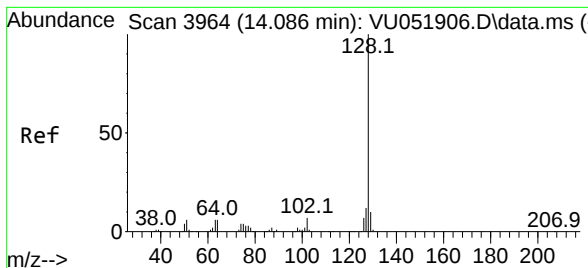
Tgt Ion:180 Resp: 148490  
 Ion Ratio Lower Upper  
 180 100  
 182 95.1 75.7 113.5  
 184 29.7 24.3 36.5  
 145 29.5 23.6 35.4



#70  
 1,2,4-trichlorobenzene  
 Concen: 5.084 ug/L  
 RT: 13.838 min Scan# 3887  
 Delta R.T. -0.000 min  
 Lab File: VU051910.D  
 Acq: 18 Nov 2022 17:36

Tgt Ion:180 Resp: 116194  
 Ion Ratio Lower Upper  
 180 100  
 182 93.7 76.3 114.5  
 145 29.1 24.6 36.8

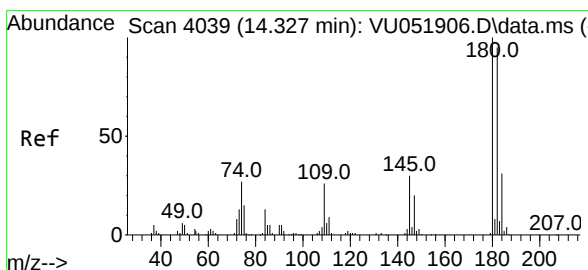
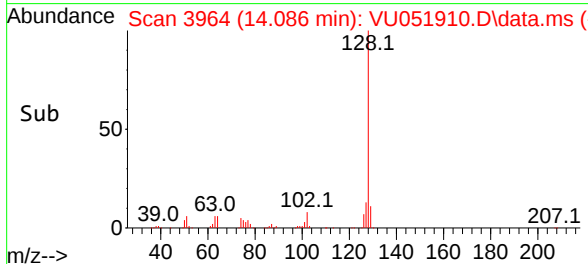
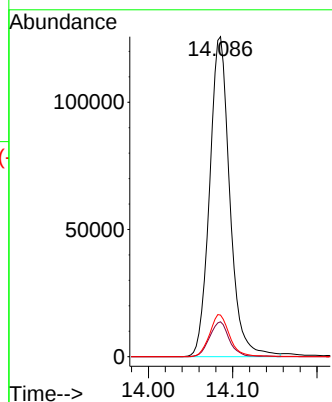
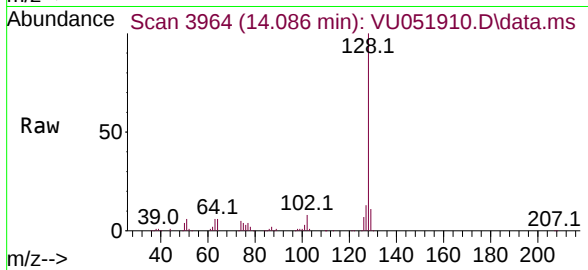




#71  
Naphthalene  
Concen: 4.885 ug/L  
RT: 14.086 min Scan# 3964  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005083

Tgt Ion:128 Resp: 209649  
Ion Ratio Lower Upper  
128 100  
129 10.6 8.3 12.5  
127 13.0 10.2 15.4



#72  
1,2,3-Trichlorobenzene  
Concen: 5.138 ug/L  
RT: 14.327 min Scan# 4039  
Delta R.T. -0.000 min  
Lab File: VU051910.D  
Acq: 18 Nov 2022 17:36

Tgt Ion:180 Resp: 115547  
Ion Ratio Lower Upper  
180 100  
182 95.1 75.7 113.5  
145 32.0 24.5 36.7

