

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW121322\  
 Data File : VV029641.D  
 Acq On : 13 Dec 2022 09:53  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050386

Quant Time: Dec 13 22:47:14 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM120722WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 13 04:57:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.606   | 114   | 523073   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.841   | 117   | 477214   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.236  | 152   | 259763   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304   | 65    | 142209   | 44.398   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 88.800%  |
| 7) Chloroethane-d5            | 1.565   | 69    | 117481   | 48.100   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 96.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.105   | 63    | 249209   | 49.882   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 99.760%  |
| 21) 2-Butanone-d5             | 3.870   | 46    | 174586   | 89.350   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 89.350%  |
| 24) Chloroform-d              | 4.336   | 84    | 258477   | 42.882   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 85.760%  |
| 26) 1,2-Dichloroethane-d4     | 5.021   | 65    | 148363   | 43.097   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 86.200%  |
| 32) Benzene-d6                | 5.040   | 84    | 539051   | 42.749   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 85.500%  |
| 36) 1,2-Dichloropropane-d6    | 6.060   | 67    | 161797   | 42.007   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 84.020%  |
| 41) Toluene-d8                | 7.307   | 98    | 499368   | 42.031   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 84.060%  |
| 43) trans-1,3-Dichloroprop... | 7.613   | 79    | 70901    | 36.454   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 72.900%  |
| 47) 2-Hexanone-d5             | 8.082   | 63    | 145410   | 88.409   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 88.410%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.204  | 84    | 220863   | 40.128   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 80.260%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.612  | 152   | 191332   | 38.693   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 77.380%# |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.127   | 85    | 178987   | 43.442   | ug/L   | 100      |
| 3) Chloromethane              | 1.240   | 50    | 197246   | 41.989   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.311   | 62    | 184329   | 46.900   | ug/L   | 100      |
| 6) Bromomethane               | 1.520   | 94    | 91435    | 57.817   | ug/L   | 100      |
| 8) Chloroethane               | 1.581   | 64    | 115139   | 52.611   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 1.751   | 101   | 237277   | 48.226   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.114   | 101   | 139302   | 50.953   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.114   | 96    | 137907   | 49.324   | ug/L   | 90       |
| 13) Acetone                   | 2.163   | 43    | 125227   | 98.379   | ug/L   | 100      |
| 14) Carbon disulfide          | 2.291   | 76    | 408858   | 43.939   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.423   | 43    | 155855   | 53.742   | ug/L   | 97       |
| 16) Methylene chloride        | 2.500   | 84    | 173517   | 49.913   | ug/L   | 96       |
| 17) trans-1,2-Dichloroethene  | 2.754   | 96    | 157376   | 48.851   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 2.761   | 73    | 510026   | 51.673   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.182   | 63    | 277778   | 50.331   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.899   | 96    | 175424   | 49.520   | ug/L   | 95       |
| 22) 2-Butanone                | 3.954   | 43    | 210117   | 103.740  | ug/L   | 97       |
| 23) Bromochloromethane        | 4.236   | 128   | 91250    | 50.023   | ug/L   | 94       |
| 25) Chloroform                | 4.362   | 83    | 284713   | 49.761   | ug/L   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

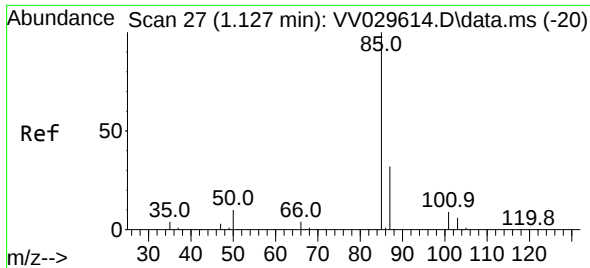
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050386

Quant Time: Dec 13 22:47:14 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM120722WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 13 04:57:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.117  | 62   | 206821   | 51.170  | ug/L  | 98       |
| 29) Cyclohexane               | 4.667  | 56   | 244841   | 47.363  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.597  | 97   | 243101   | 46.757  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.818  | 117  | 204996   | 45.151  | ug/L  | 100      |
| 33) Benzene                   | 5.089  | 78   | 658188   | 48.931  | ug/L  | 100      |
| 34) Trichloroethene           | 5.905  | 95   | 159329   | 47.269  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.121  | 83   | 268247   | 46.857  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.162  | 63   | 169582   | 52.234  | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.500  | 83   | 216619   | 48.333  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.018  | 75   | 219508   | 41.111  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.220  | 43   | 426743   | 110.244 | ug/L  | 98       |
| 42) Toluene                   | 7.378  | 91   | 698903   | 48.273  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.641  | 75   | 212288   | 41.983  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 7.828  | 97   | 168957   | 50.373  | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.966  | 164  | 131874   | 48.662  | ug/L  | 97       |
| 48) 2-Hexanone                | 8.133  | 43   | 329885   | 111.546 | ug/L  | 96       |
| 49) Dibromochloromethane      | 8.236  | 129  | 178641   | 48.241  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.342  | 107  | 167973   | 48.610  | ug/L  | 99       |
| 51) Chlorobenzene             | 8.870  | 112  | 454326   | 49.556  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.002  | 91   | 745885   | 49.002  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.130  | 106  | 294616   | 48.903  | ug/L  | 98       |
| 54) o-Xylene                  | 9.532  | 106  | 290504   | 48.749  | ug/L  | 99       |
| 55) Styrene                   | 9.551  | 104  | 522724   | 50.475  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.230 | 83   | 260556   | 48.563  | ug/L  | 99       |
| 59) Bromoform                 | 9.719  | 173  | 129081   | 44.984  | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.921  | 105  | 727467   | 47.699  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.262 | 75   | 198976   | 49.625  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.529 | 105  | 640092   | 47.468  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.902 | 105  | 637608   | 47.701  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.169 | 146  | 357725   | 47.972  | ug/L  | 100      |
| 65) 1,4-Dichlorobenzene       | 11.262 | 146  | 366055   | 48.302  | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene       | 11.632 | 146  | 359985   | 47.208  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.413 | 75   | 51967    | 41.700  | ug/L  | 99       |
| 69) 1,3,5-Trichlorobenzene    | 12.632 | 180  | 274965   | 46.334  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.246 | 180  | 247194   | 46.843  | ug/L  | 100      |
| 71) Naphthalene               | 13.490 | 128  | 590975   | 49.372  | ug/L  | 98       |
| 72) 1,2,3-Trichlorobenzene    | 13.728 | 180  | 247829   | 47.948  | ug/L  | 100      |

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

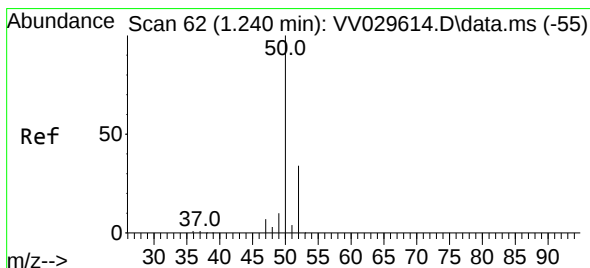
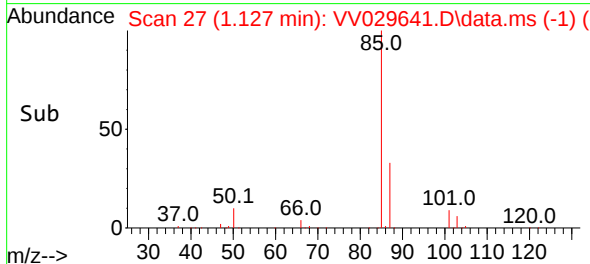
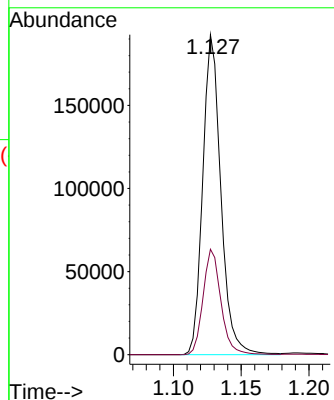
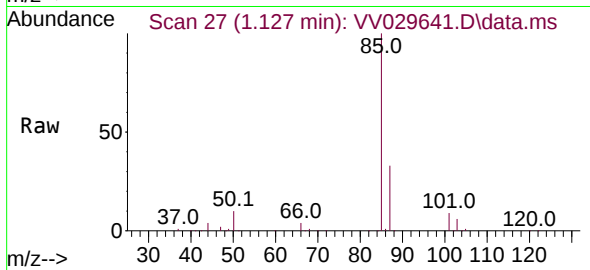




#2  
 Dichlorodifluoromethane  
 Concen: 43.442 ug/L  
 RT: 1.127 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VV029641.D  
 Acq: 13 Dec 2022 09:53

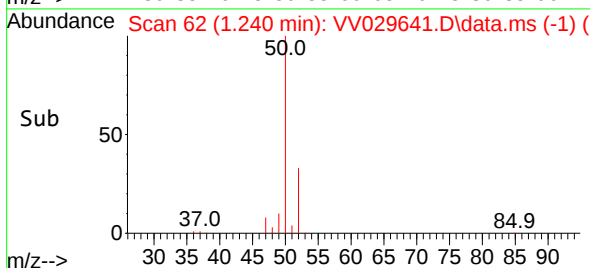
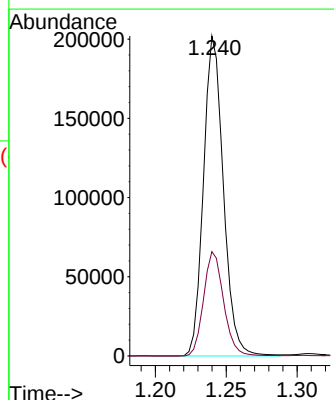
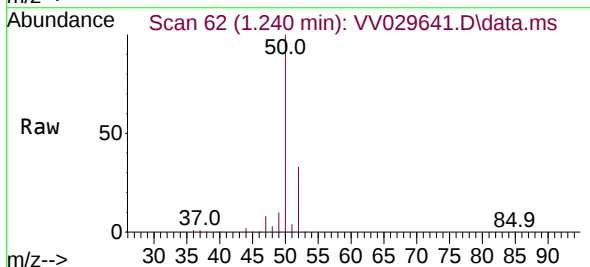
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050386

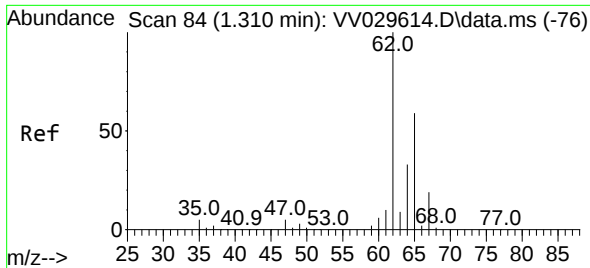
Tgt Ion: 85 Resp: 178987  
 Ion Ratio Lower Upper  
 85 100  
 87 32.4 25.9 38.9



#3  
 Chloromethane  
 Concen: 41.989 ug/L  
 RT: 1.240 min Scan# 62  
 Delta R.T. 0.000 min  
 Lab File: VV029641.D  
 Acq: 13 Dec 2022 09:53

Tgt Ion: 50 Resp: 197246  
 Ion Ratio Lower Upper  
 50 100  
 52 32.6 23.3 43.3

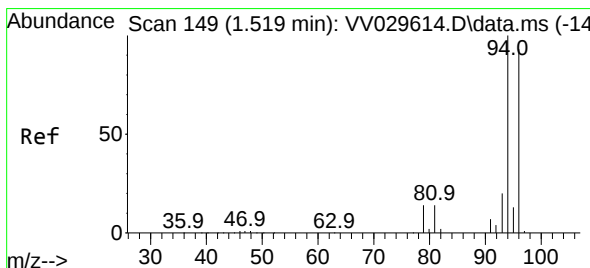
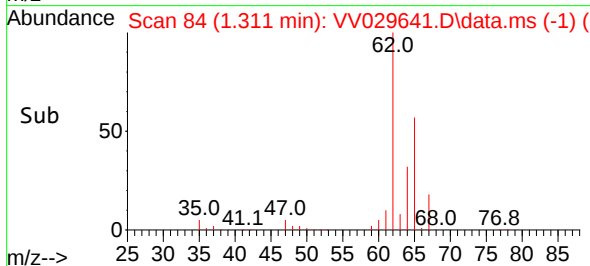
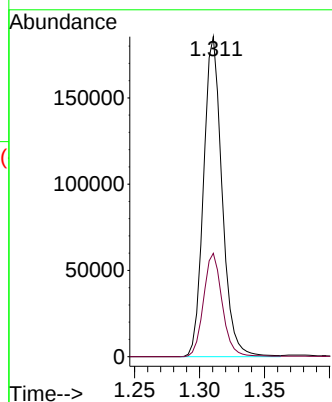
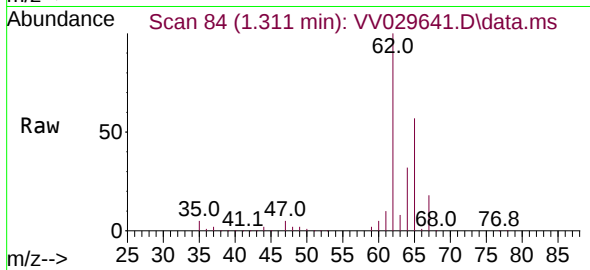




#5  
 Vinyl chloride  
 Concen: 46.900 ug/L  
 RT: 1.311 min Scan# 84  
 Delta R.T. 0.000 min  
 Lab File: VV029641.D  
 Acq: 13 Dec 2022 09:53

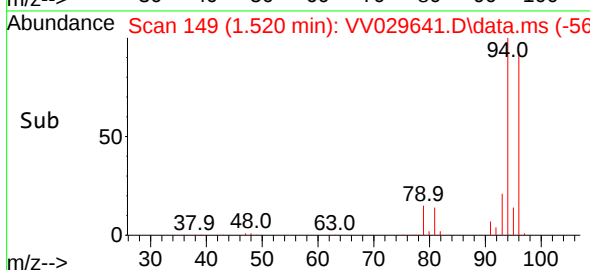
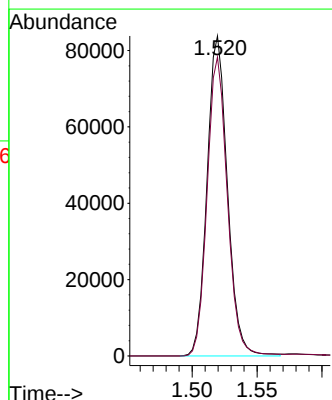
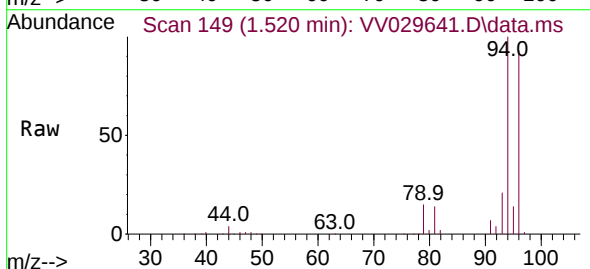
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050386

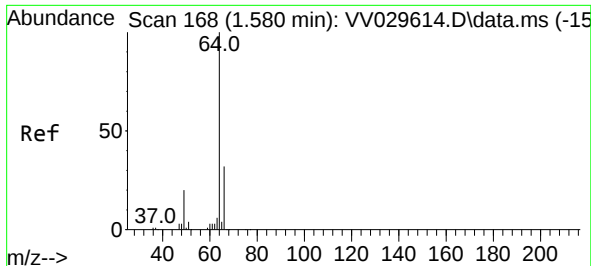
Tgt Ion: 62 Resp: 184329  
 Ion Ratio Lower Upper  
 62 100  
 64 32.3 22.5 41.9



#6  
 Bromomethane  
 Concen: 57.817 ug/L  
 RT: 1.520 min Scan# 149  
 Delta R.T. 0.000 min  
 Lab File: VV029641.D  
 Acq: 13 Dec 2022 09:53

Tgt Ion: 94 Resp: 91435  
 Ion Ratio Lower Upper  
 94 100  
 96 93.4 65.1 120.9

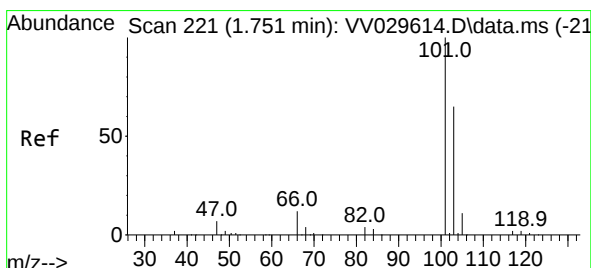
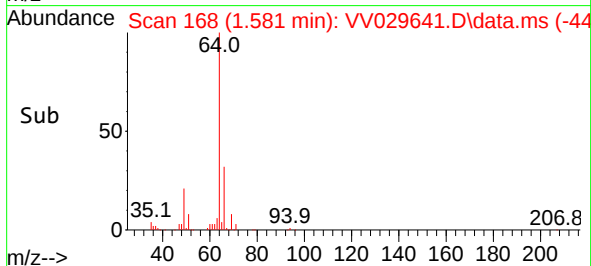
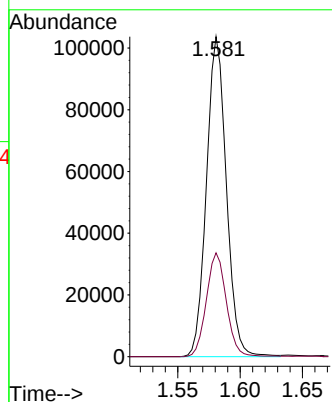
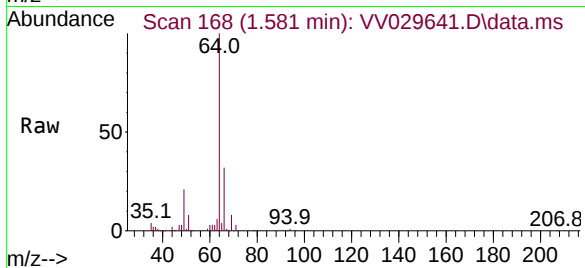




#8  
Chloroethane  
Concen: 52.611 ug/L  
RT: 1.581 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

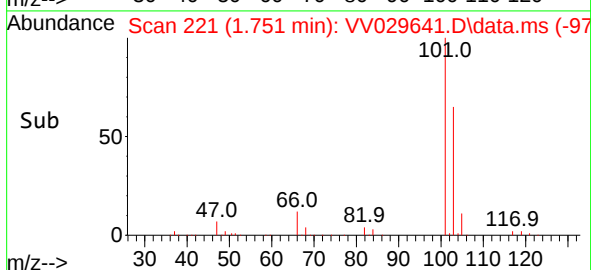
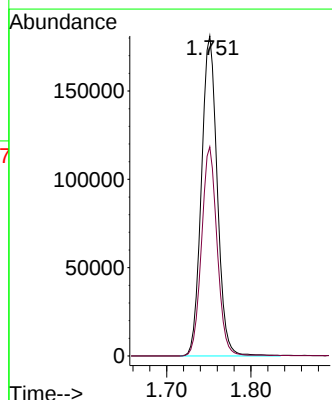
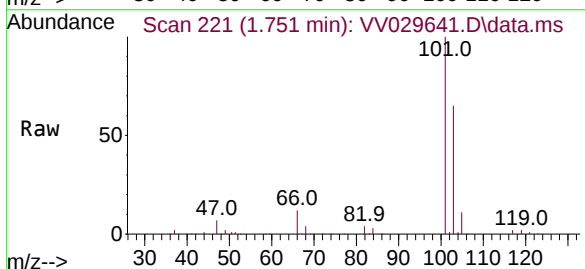
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

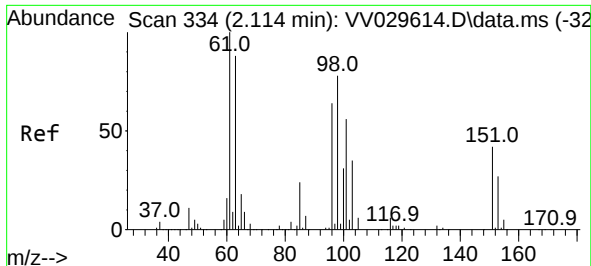
Tgt Ion: 64 Resp: 115139  
Ion Ratio Lower Upper  
64 100  
66 32.5 22.5 41.9



#9  
Trichlorofluoromethane  
Concen: 48.226 ug/L  
RT: 1.751 min Scan# 221  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Tgt Ion:101 Resp: 237277  
Ion Ratio Lower Upper  
101 100  
103 64.2 51.8 77.8

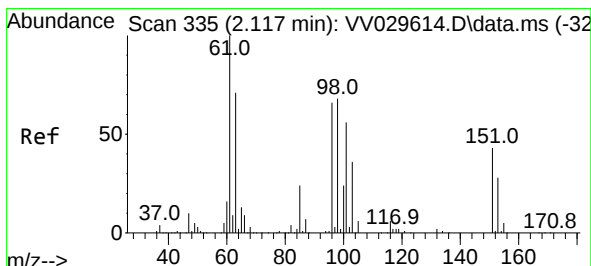
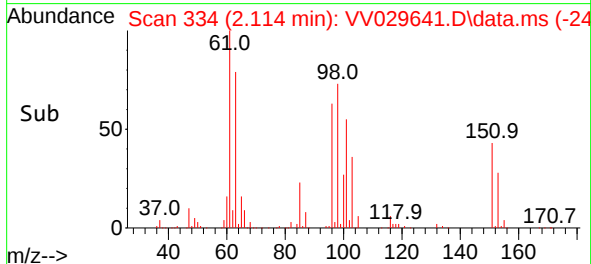
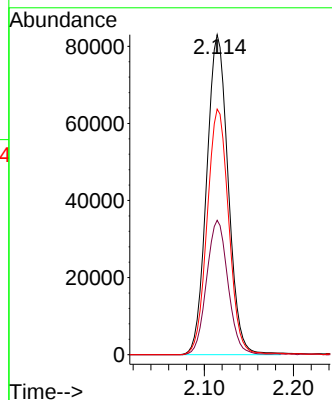
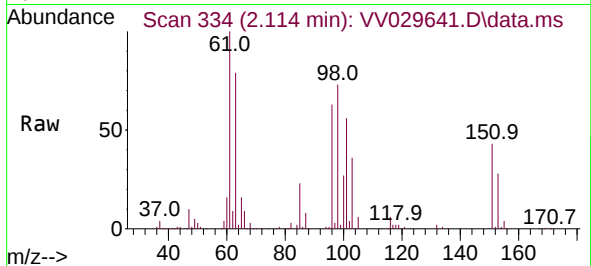




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 50.953 ug/L  
 RT: 2.114 min Scan# 334  
 Delta R.T. 0.000 min  
 Lab File: VV029641.D  
 Acq: 13 Dec 2022 09:53

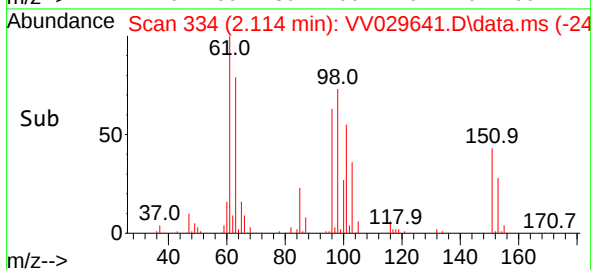
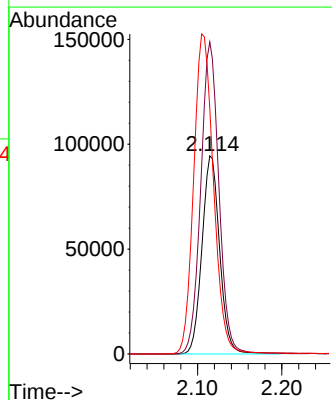
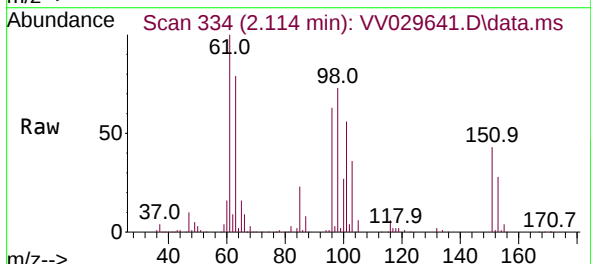
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050386

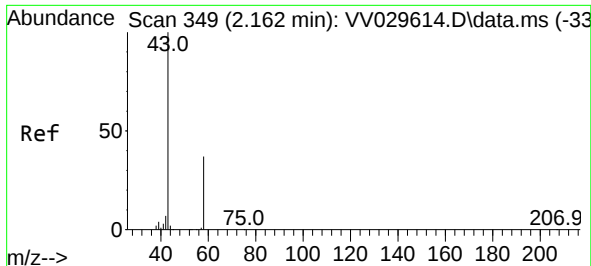
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 Ion Ratio Lower Upper  
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 151 76.7 63.5 95.3



#12  
 1,1-Dichloroethene  
 Concen: 49.324 ug/L  
 RT: 2.114 min Scan# 334  
 Delta R.T. -0.003 min  
 Lab File: VV029641.D  
 Acq: 13 Dec 2022 09:53

Tgt Ion: 96 Resp: 137907  
 Ion Ratio Lower Upper  
 96 100  
 61 157.6 103.3 191.9  
 63 124.0 77.3 143.7





#13

Acetone

Concen: 98.379 ug/L

RT: 2.163 min Scan# 349

Delta R.T. 0.000 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Instrument :

MSVOA\_V

ClientSampleId :

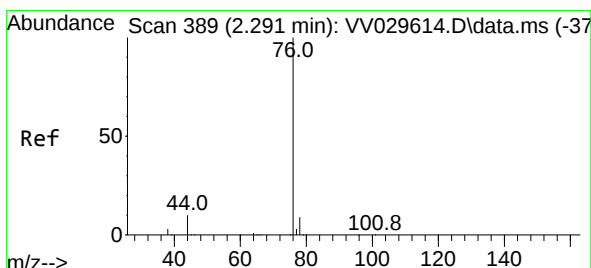
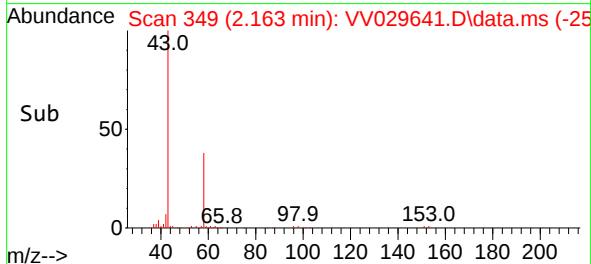
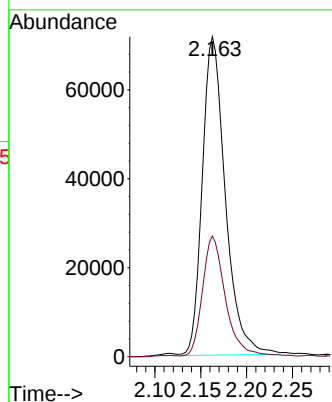
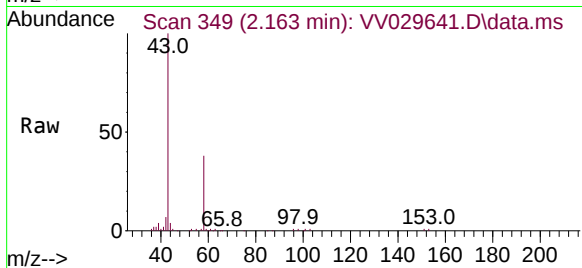
VSTD050386

Tgt Ion: 43 Resp: 125227

Ion Ratio Lower Upper

43 100

58 37.1 0.0 74.8



#14

Carbon disulfide

Concen: 43.939 ug/L

RT: 2.291 min Scan# 389

Delta R.T. 0.000 min

Lab File: VV029641.D

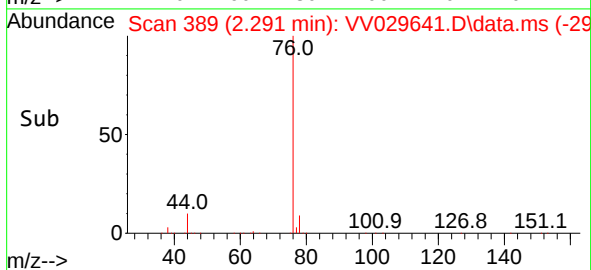
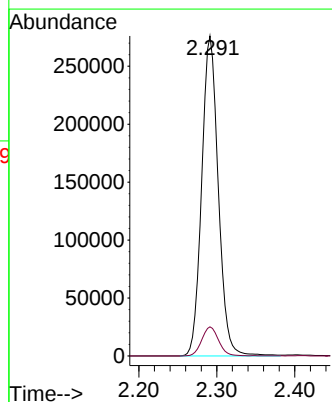
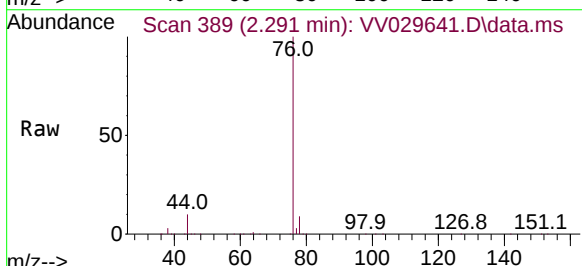
Acq: 13 Dec 2022 09:53

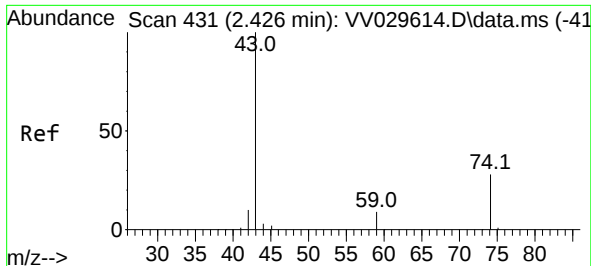
Tgt Ion: 76 Resp: 408858

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.2

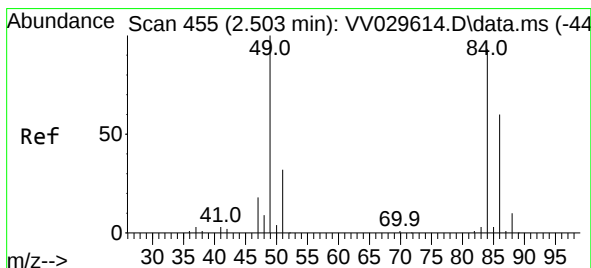
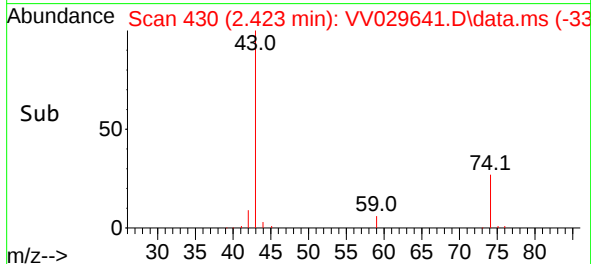
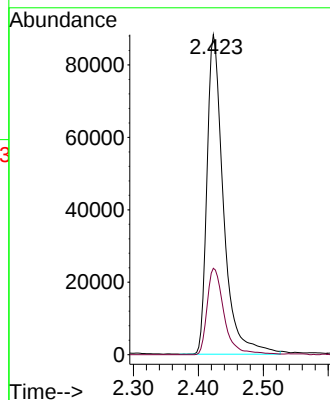
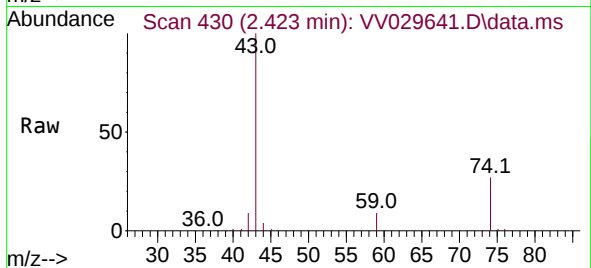




#15  
Methyl Acetate  
Concen: 53.742 ug/L  
RT: 2.423 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

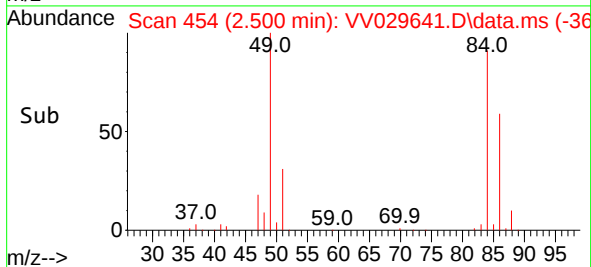
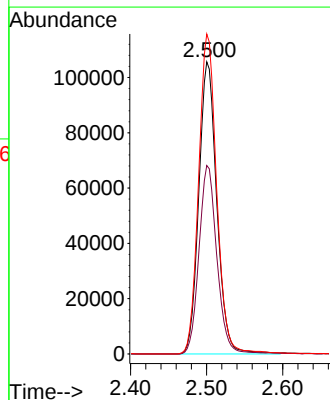
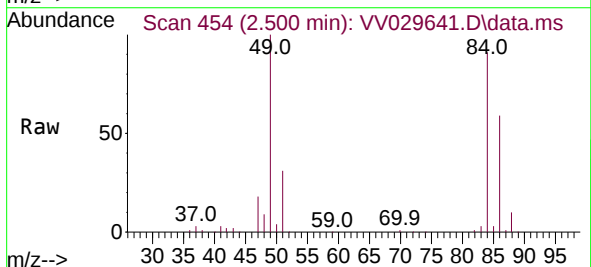
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

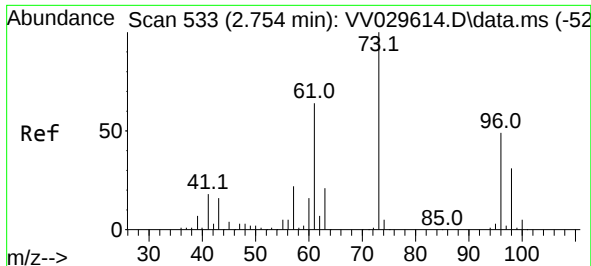
Tgt Ion: 43 Resp: 155855  
Ion Ratio Lower Upper  
43 100  
74 28.0 23.5 35.3



#16  
Methylene chloride  
Concen: 49.913 ug/L  
RT: 2.500 min Scan# 454  
Delta R.T. -0.003 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Tgt Ion: 84 Resp: 173517  
Ion Ratio Lower Upper  
84 100  
86 64.5 46.0 85.4  
49 109.5 72.2 134.0

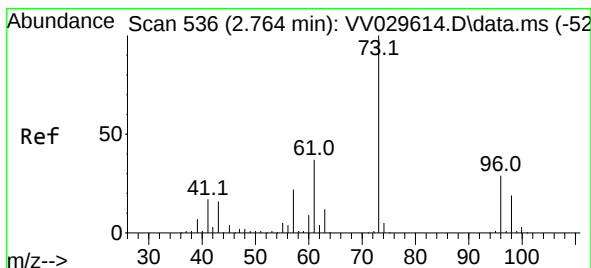
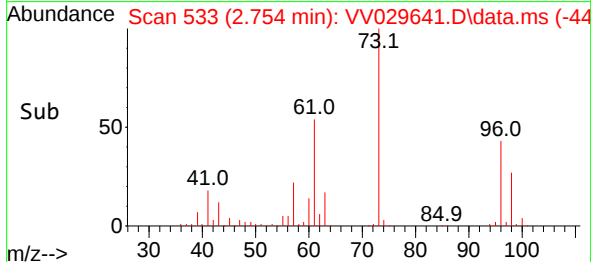
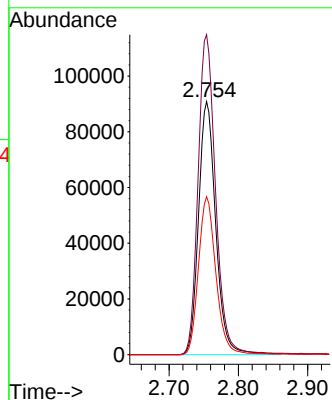
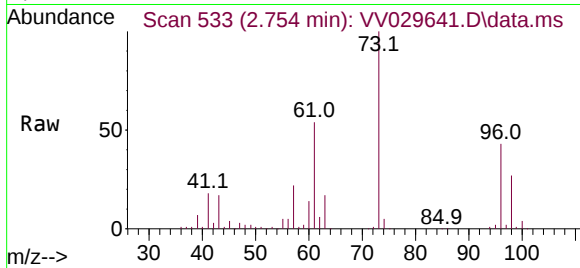




#17  
trans-1,2-Dichloroethene  
Concen: 48.851 ug/L  
RT: 2.754 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

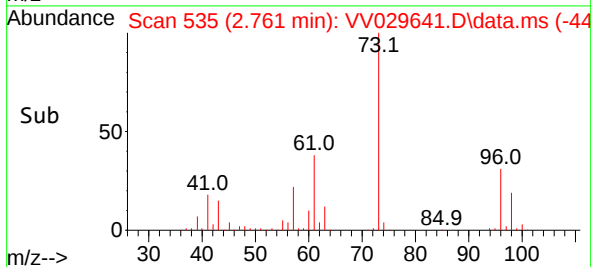
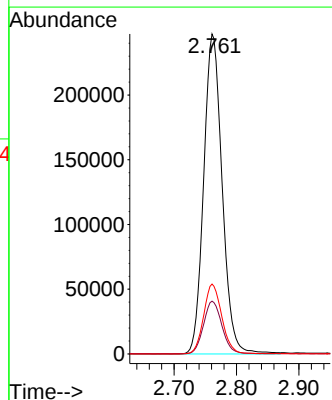
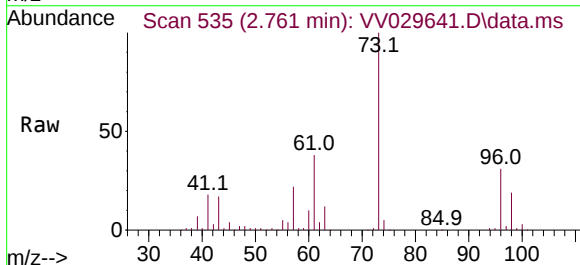
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

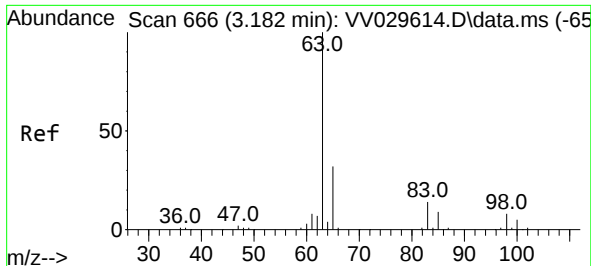
Tgt Ion: 96 Resp: 157376  
Ion Ratio Lower Upper  
96 100  
61 126.5 86.4 160.4  
98 62.4 43.4 80.6



#18  
Methyl tert-butyl Ether  
Concen: 51.673 ug/L  
RT: 2.761 min Scan# 535  
Delta R.T. -0.003 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Tgt Ion: 73 Resp: 510026  
Ion Ratio Lower Upper  
73 100  
43 16.2 12.7 19.1  
57 21.5 16.7 25.1





#19

1,1-Dichloroethane

Concen: 50.331 ug/L

RT: 3.182 min Scan# 666

Delta R.T. 0.000 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050386

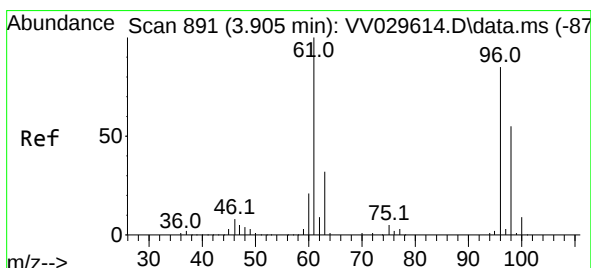
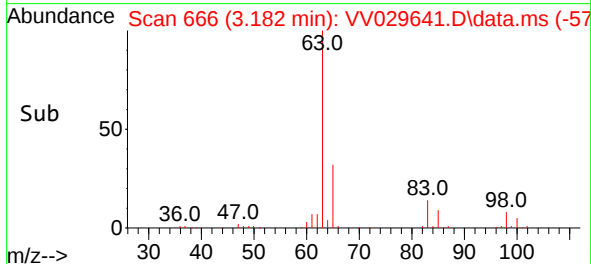
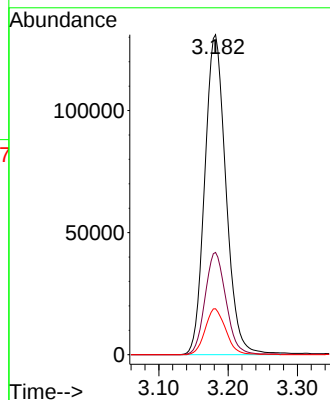
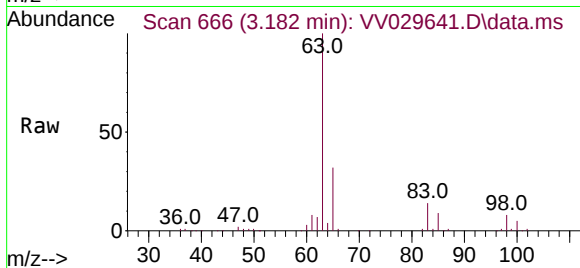
Tgt Ion: 63 Resp: 277778

Ion Ratio Lower Upper

63 100

65 32.0 22.5 41.7

83 14.4 10.4 19.2



#20

cis-1,2-Dichloroethene

Concen: 49.520 ug/L

RT: 3.899 min Scan# 889

Delta R.T. -0.006 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

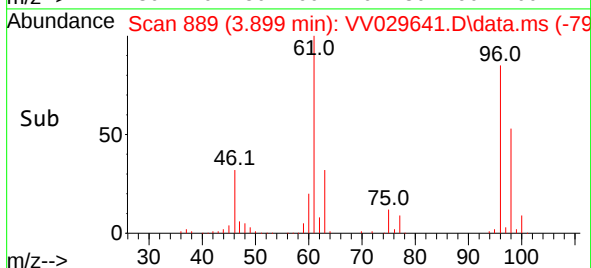
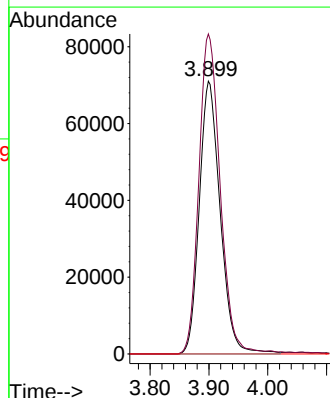
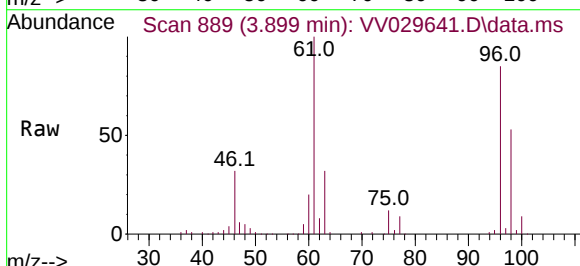
Tgt Ion: 96 Resp: 175424

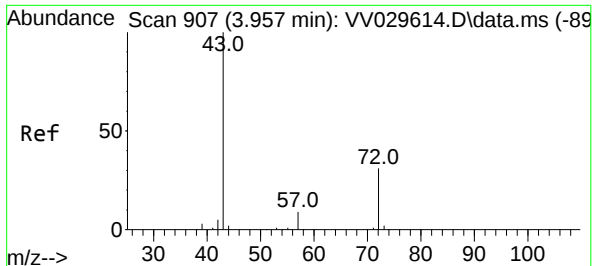
Ion Ratio Lower Upper

96 100

61 117.3 78.0 144.9

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 103.740 ug/L

RT: 3.954 min Scan# 906

Delta R.T. -0.003 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Instrument :

MSVOA\_V

ClientSampleId :

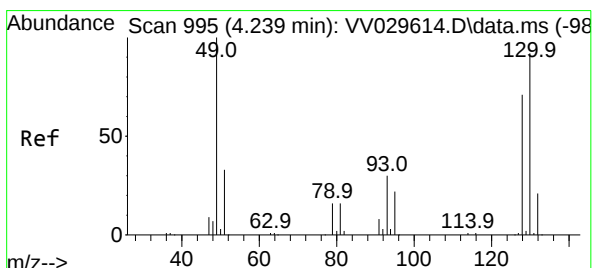
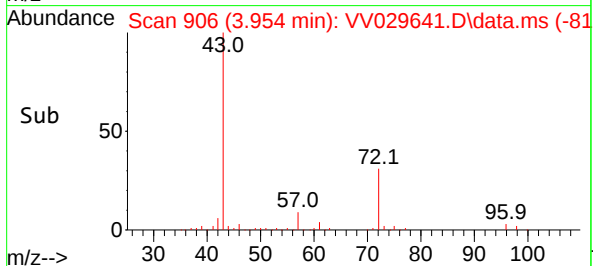
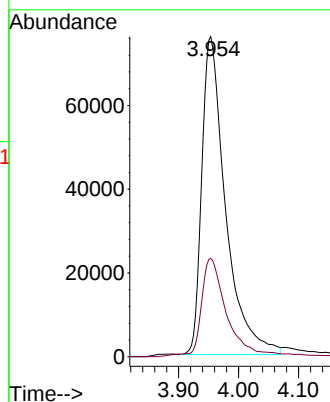
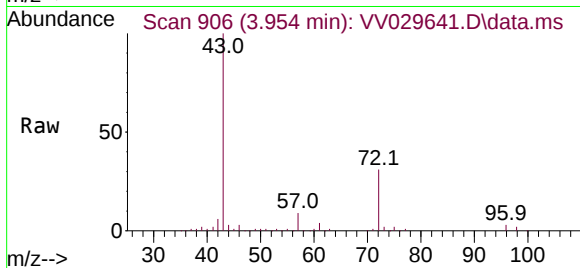
VSTD050386

Tgt Ion: 43 Resp: 210117

Ion Ratio Lower Upper

43 100

72 30.3 15.9 47.6



#23

Bromochloromethane

Concen: 50.023 ug/L

RT: 4.236 min Scan# 994

Delta R.T. -0.003 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Tgt Ion: 128 Resp: 91250

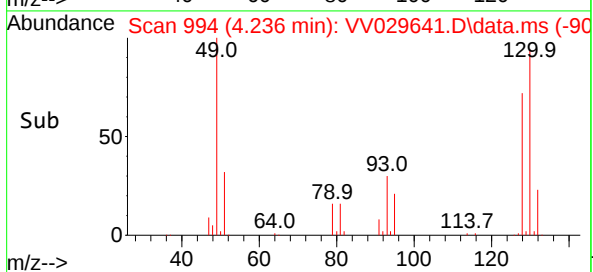
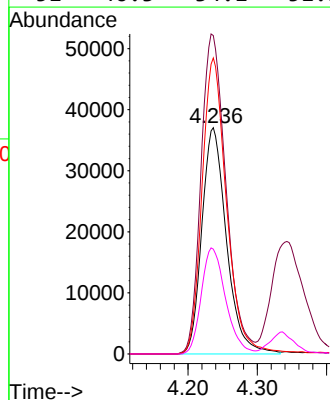
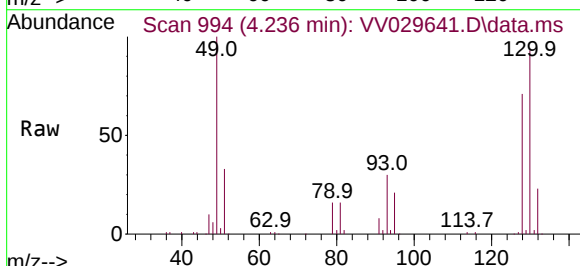
Ion Ratio Lower Upper

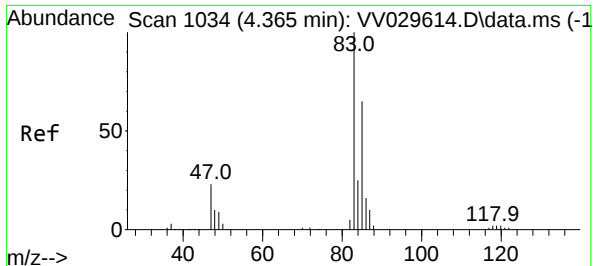
128 100

49 140.8 92.2 171.2

130 130.8 88.3 164.1

51 46.3 34.1 51.1





#25

Chloroform

Concen: 49.761 ug/L

RT: 4.362 min Scan# 1

Delta R.T. -0.003 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Instrument :

MSVOA\_V

ClientSampleId :

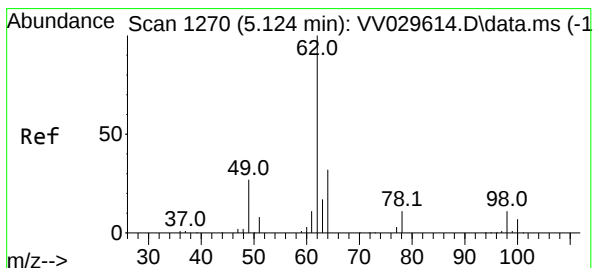
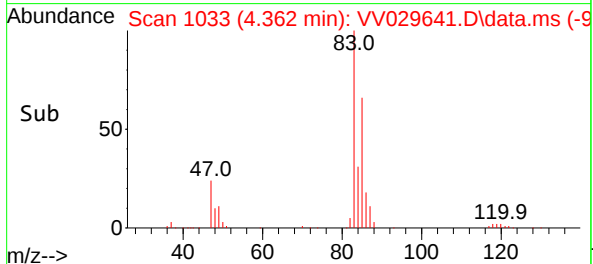
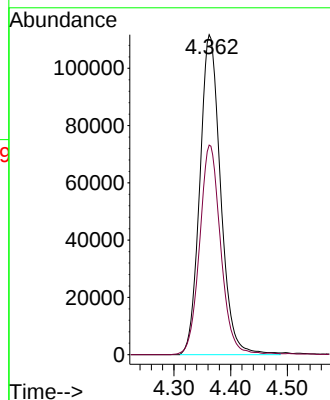
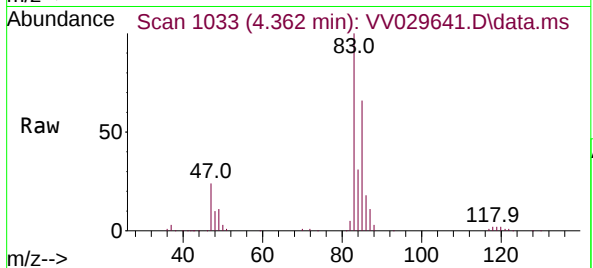
VSTD050386

Tgt Ion: 83 Resp: 284713

Ion Ratio Lower Upper

83 100

85 65.5 45.1 83.9



#27

1,2-Dichloroethane

Concen: 51.170 ug/L

RT: 5.117 min Scan# 1268

Delta R.T. -0.006 min

Lab File: VV029641.D

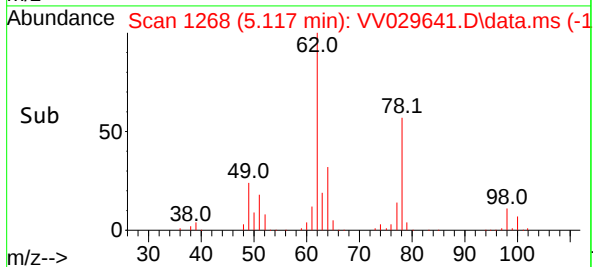
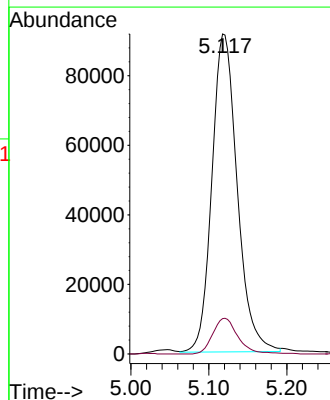
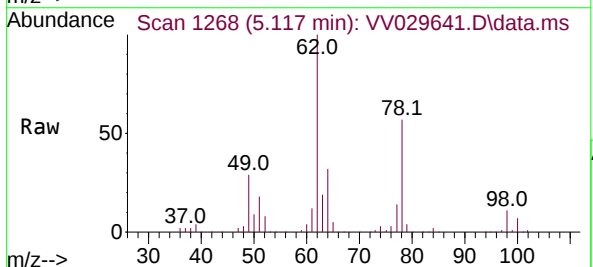
Acq: 13 Dec 2022 09:53

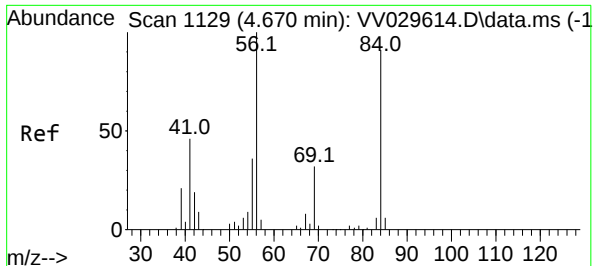
Tgt Ion: 62 Resp: 206821

Ion Ratio Lower Upper

62 100

98 11.0 9.4 14.0





#29

Cyclohexane

Concen: 47.363 ug/L

RT: 4.667 min Scan# 1128

Delta R.T. -0.003 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050386

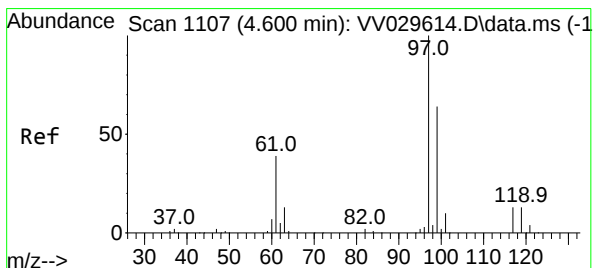
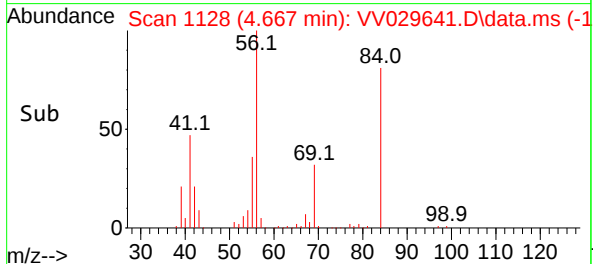
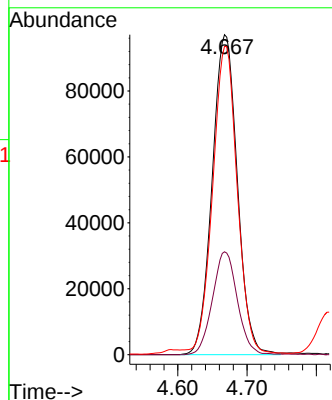
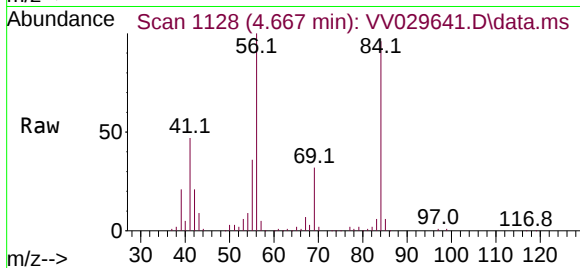
Tgt Ion: 56 Resp: 244841

Ion Ratio Lower Upper

56 100

69 31.8 25.8 38.8

84 94.1 76.6 114.8



#30

1,1,1-Trichloroethane

Concen: 46.757 ug/L

RT: 4.597 min Scan# 1106

Delta R.T. -0.003 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

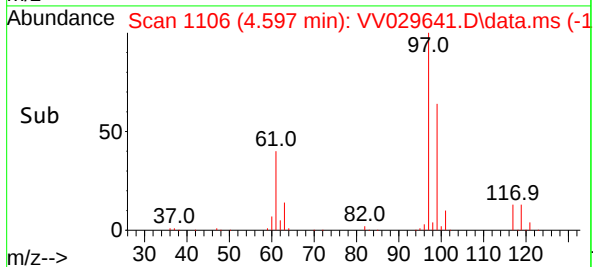
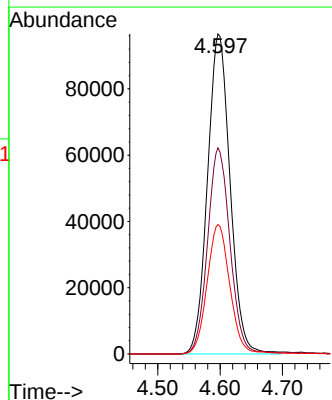
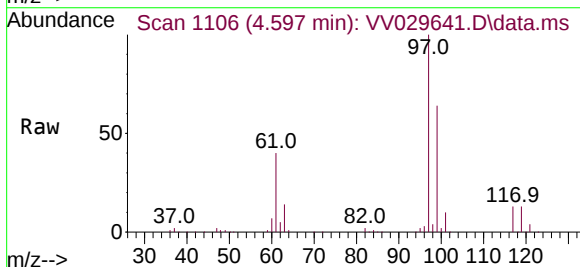
Tgt Ion: 97 Resp: 243101

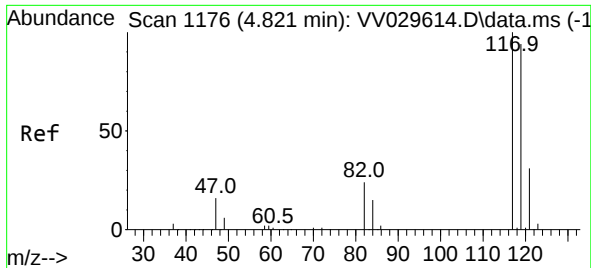
Ion Ratio Lower Upper

97 100

99 64.1 52.1 78.1

61 40.4 31.8 47.8

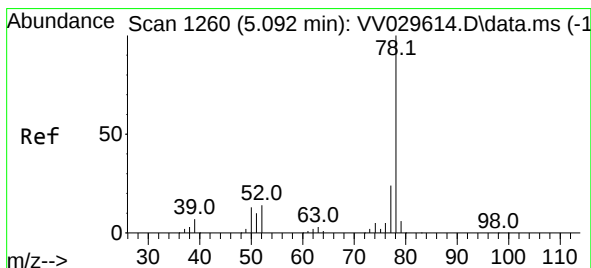
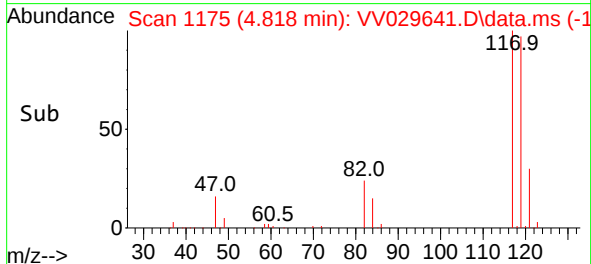
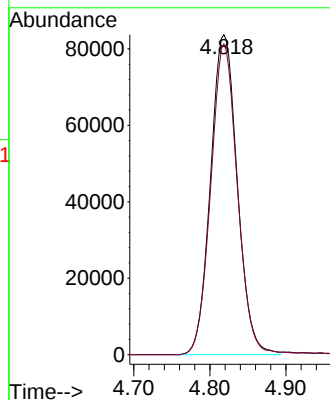
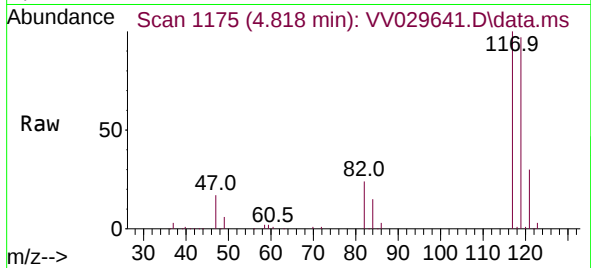




#31  
Carbon tetrachloride  
Concen: 45.151 ug/L  
RT: 4.818 min Scan# 1175  
Delta R.T. -0.003 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

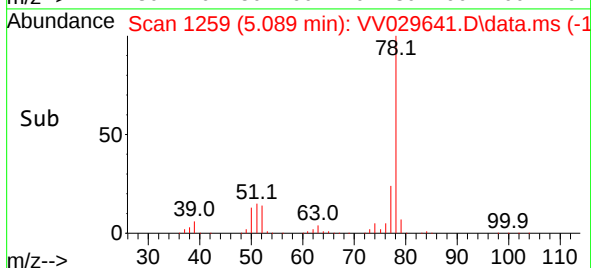
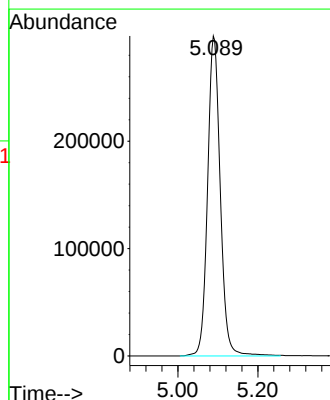
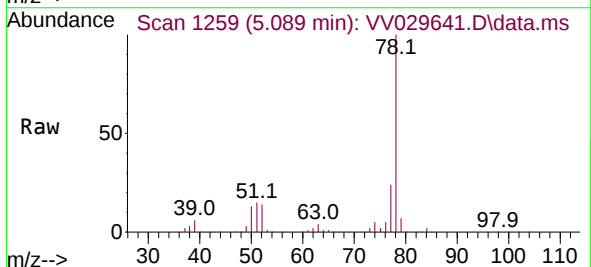
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

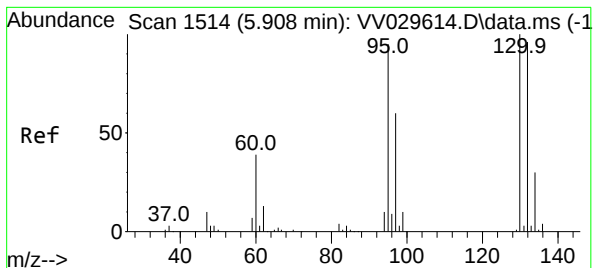
Tgt Ion:117 Resp: 204996  
Ion Ratio Lower Upper  
117 100  
119 96.2 76.7 115.1



#33  
Benzene  
Concen: 48.931 ug/L  
RT: 5.089 min Scan# 1259  
Delta R.T. -0.003 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Tgt Ion: 78 Resp: 658188





#34

Trichloroethene

Concen: 47.269 ug/L

RT: 5.905 min Scan# 1513

Delta R.T. -0.003 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050386

Tgt Ion: 95 Resp: 159329

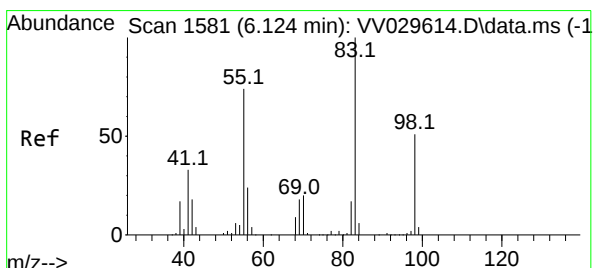
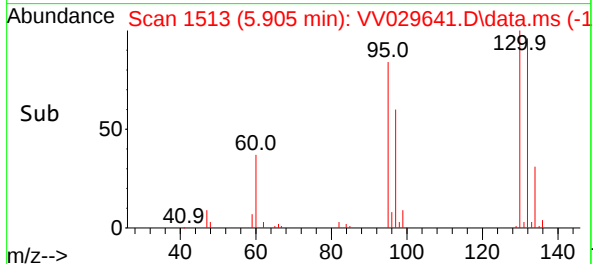
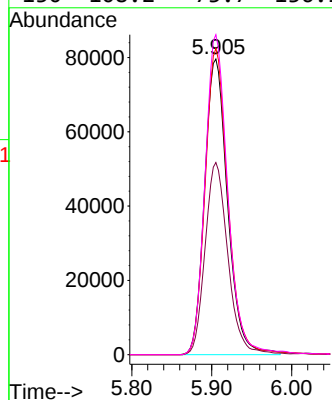
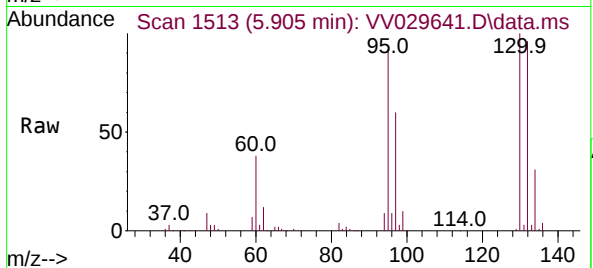
Ion Ratio Lower Upper

95 100

97 65.0 44.0 81.8

132 103.6 69.9 129.9

130 108.2 73.7 136.9



#35

Methylcyclohexane

Concen: 46.857 ug/L

RT: 6.121 min Scan# 1580

Delta R.T. -0.003 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

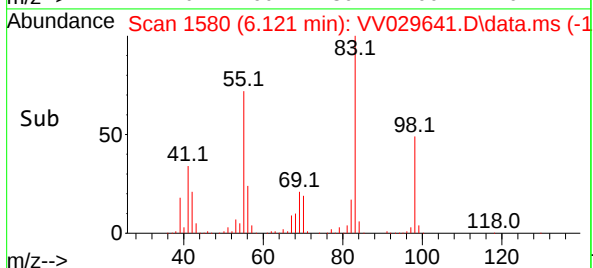
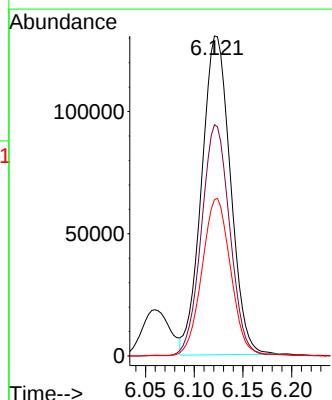
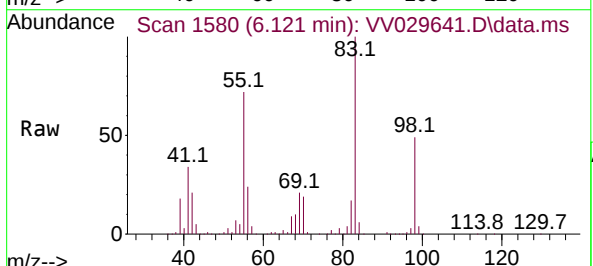
Tgt Ion: 83 Resp: 268247

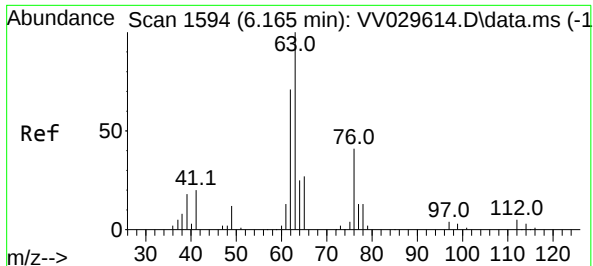
Ion Ratio Lower Upper

83 100

55 71.7 55.5 83.3

98 48.7 39.8 59.8





#37

1,2-Dichloropropane

Concen: 52.234 ug/L

RT: 6.162 min Scan# 1

Delta R.T. -0.003 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Instrument :

MSVOA\_V

ClientSampleId :

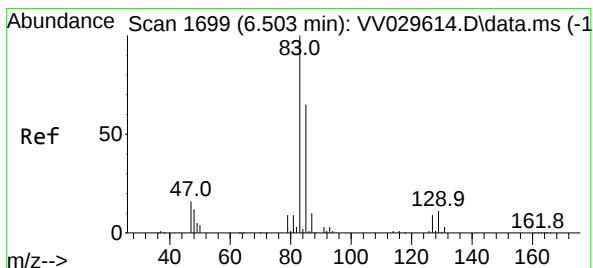
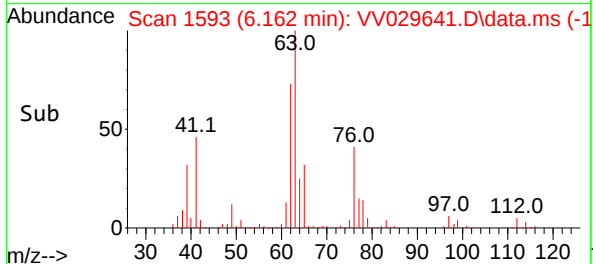
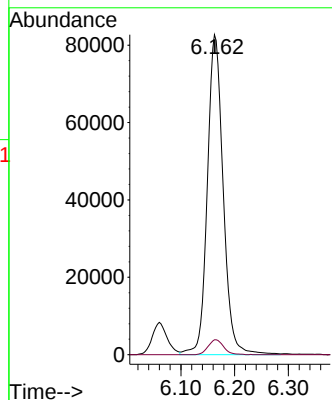
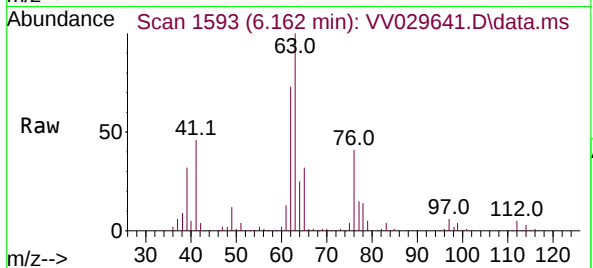
VSTD050386

Tgt Ion: 63 Resp: 169582

Ion Ratio Lower Upper

63 100

112 4.6 3.9 5.9



#38

Bromodichloromethane

Concen: 48.333 ug/L

RT: 6.500 min Scan# 1698

Delta R.T. -0.003 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

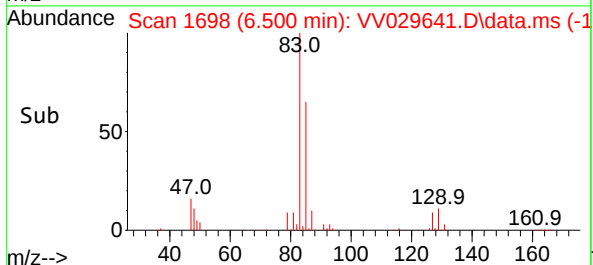
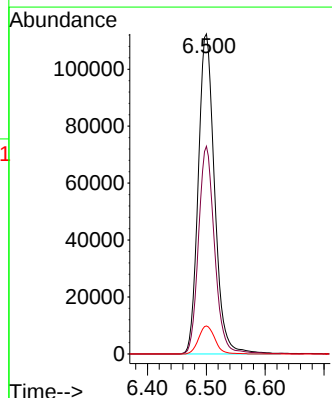
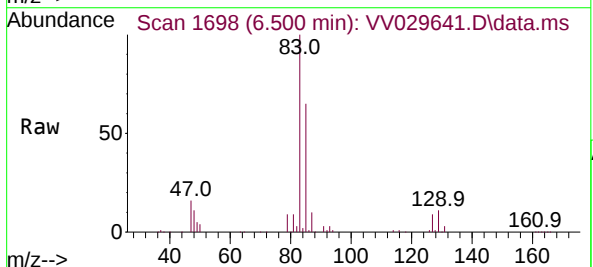
Tgt Ion: 83 Resp: 216619

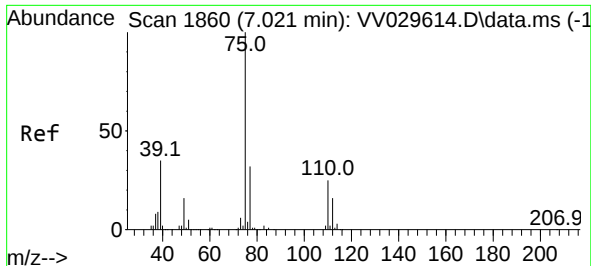
Ion Ratio Lower Upper

83 100

85 64.9 45.3 84.1

127 8.8 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 41.111 ug/L

RT: 7.018 min Scan# 11

Delta R.T. -0.003 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Instrument :

MSVOA\_V

ClientSampleId :

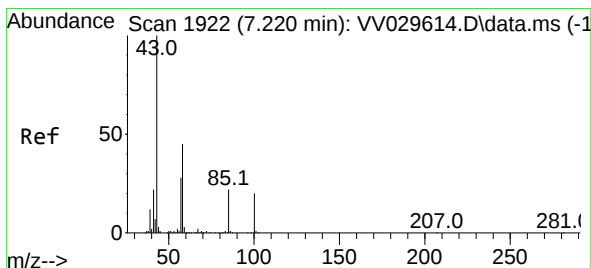
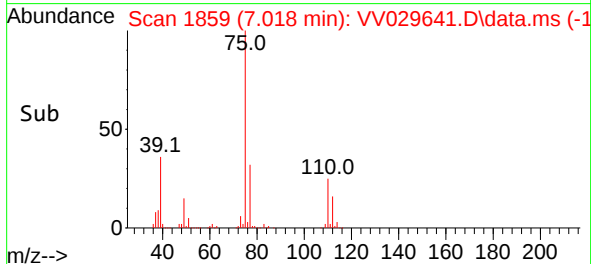
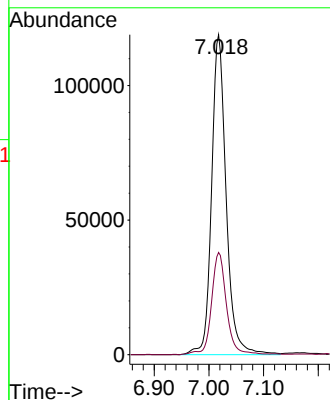
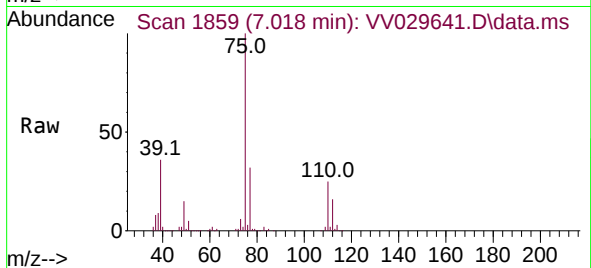
VSTD050386

Tgt Ion: 75 Resp: 219508

Ion Ratio Lower Upper

75 100

77 32.0 21.9 40.7



#40

4-Methyl-2-pentanone

Concen: 110.244 ug/L

RT: 7.220 min Scan# 1922

Delta R.T. 0.000 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

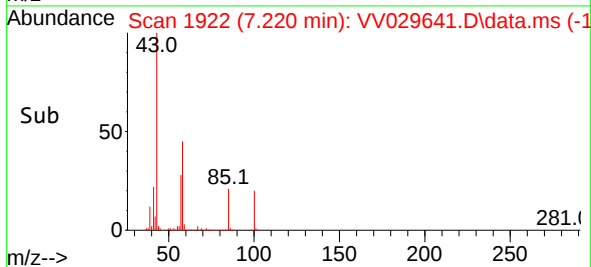
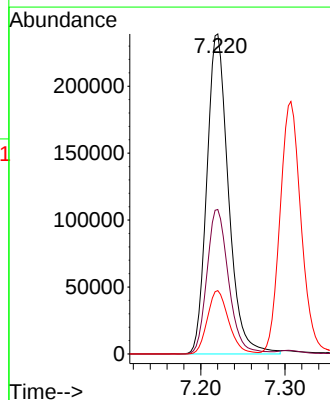
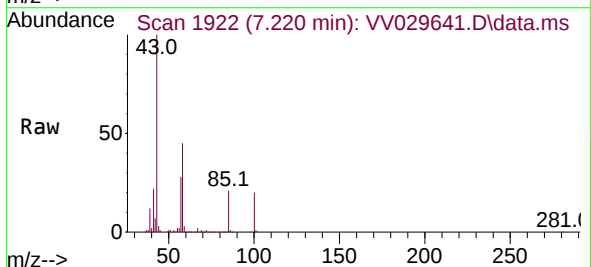
Tgt Ion: 43 Resp: 426743

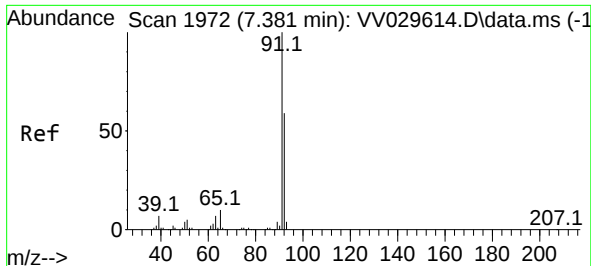
Ion Ratio Lower Upper

43 100

58 45.4 37.5 56.3

100 19.5 16.7 25.1

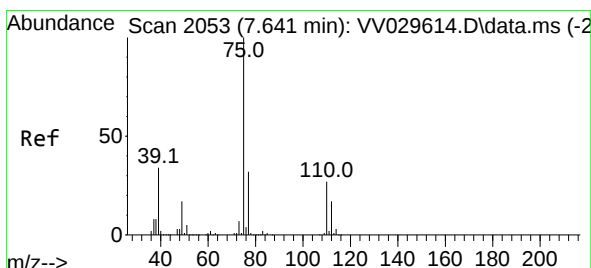
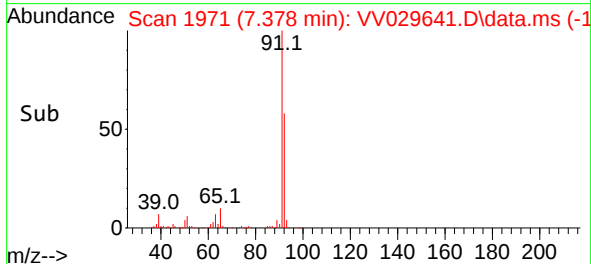
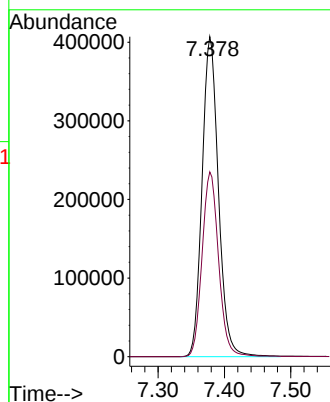
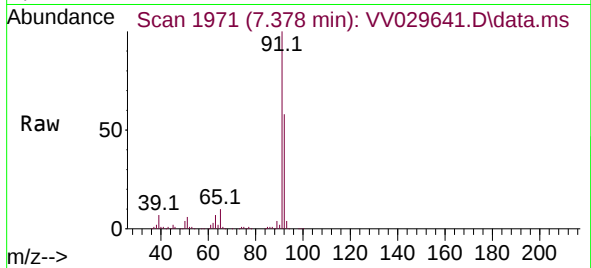




#42  
Toluene  
Concen: 48.273 ug/L  
RT: 7.378 min Scan# 1972  
Delta R.T. -0.003 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

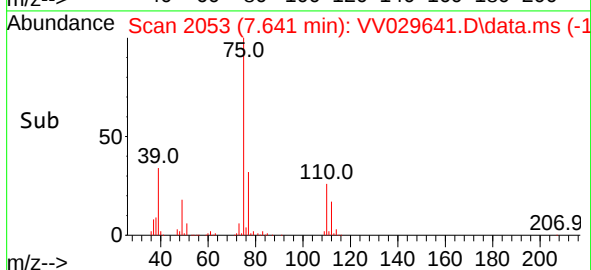
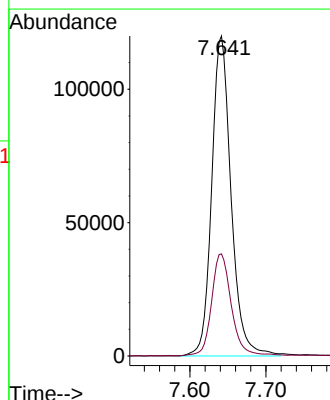
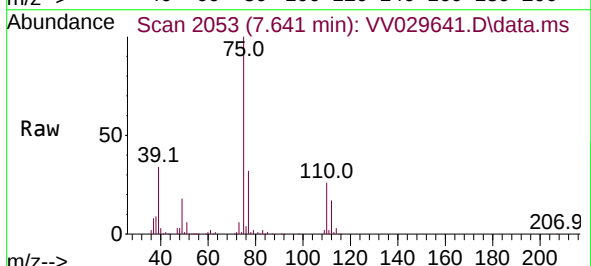
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

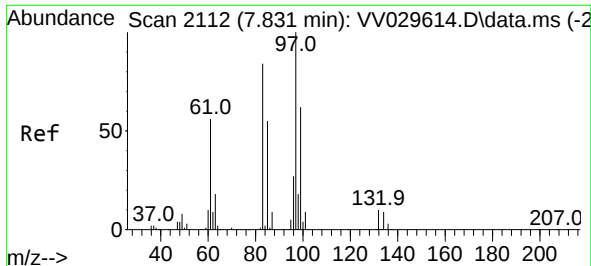
Tgt Ion: 91 Resp: 698903  
Ion Ratio Lower Upper  
91 100  
92 57.7 40.6 75.4



#44  
trans-1,3-Dichloropropene  
Concen: 41.983 ug/L  
RT: 7.641 min Scan# 2053  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Tgt Ion: 75 Resp: 212288  
Ion Ratio Lower Upper  
75 100  
77 31.9 22.3 41.5



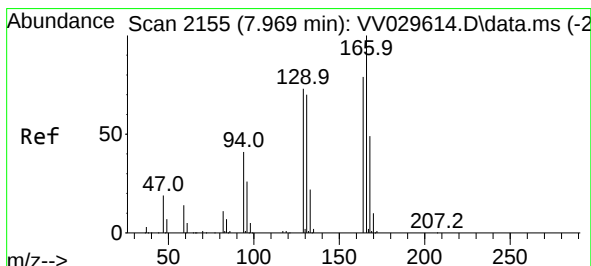
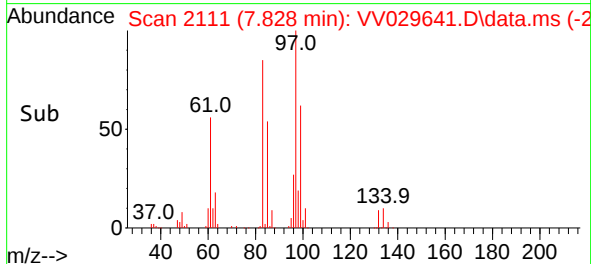
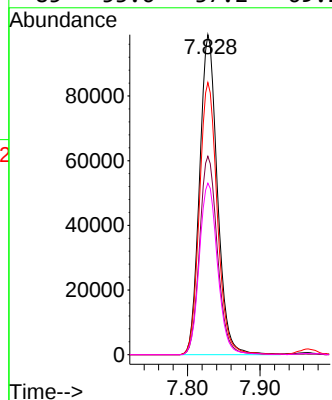
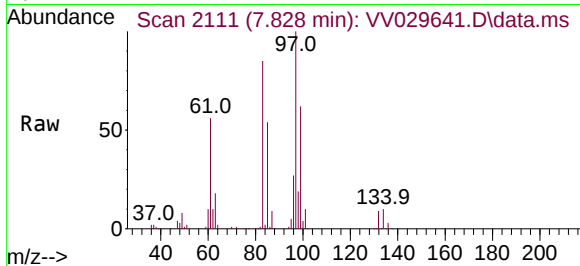


#45  
1,1,2-Trichloroethane  
Concen: 50.373 ug/L  
RT: 7.828 min Scan# 2111  
Delta R.T. -0.003 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

Tgt Ion: 97 Resp: 168957

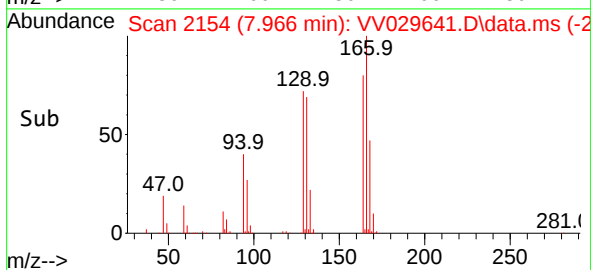
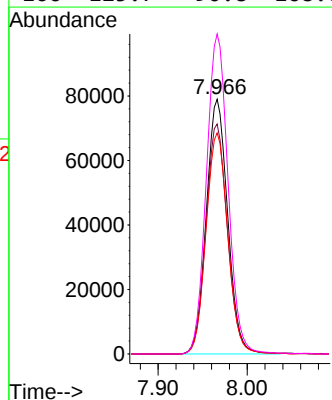
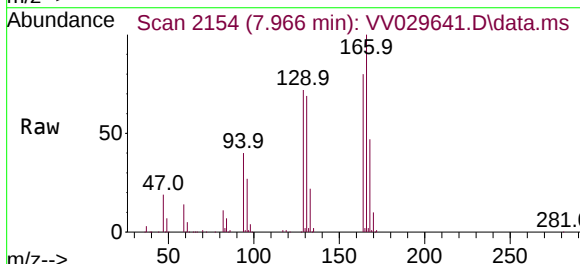
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 62.0  | 43.8  | 81.3  |
| 83  | 85.0  | 58.6  | 108.8 |
| 85  | 53.6  | 37.2  | 69.2  |

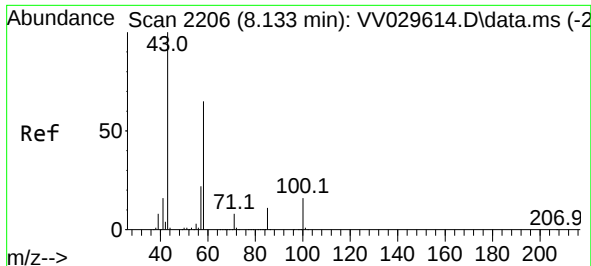


#46  
Tetrachloroethene  
Concen: 48.662 ug/L  
RT: 7.966 min Scan# 2154  
Delta R.T. -0.003 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Tgt Ion: 164 Resp: 131874

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 90.3  | 65.3  | 121.3 |
| 131 | 86.9  | 63.1  | 117.1 |
| 166 | 125.7 | 90.8  | 168.6 |



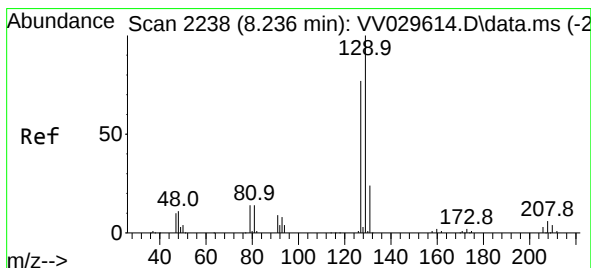
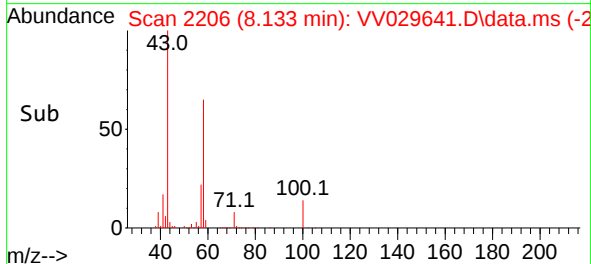
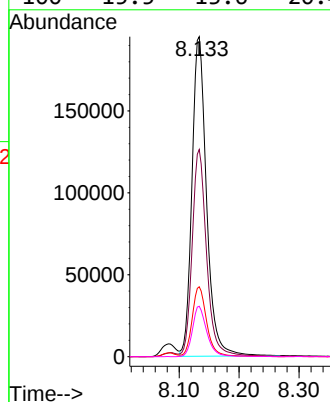
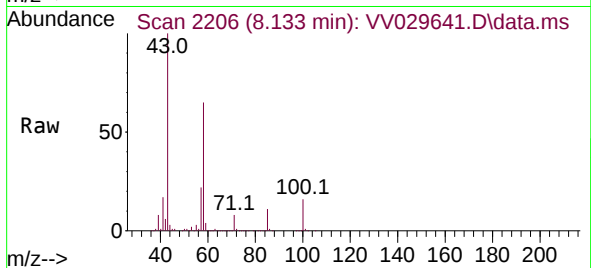


#48  
2-Hexanone  
Concen: 111.546 ug/L  
RT: 8.133 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

Tgt Ion: 43 Resp: 329885

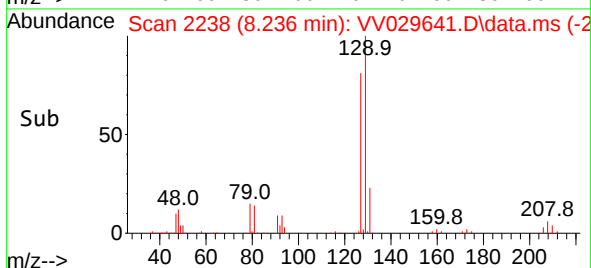
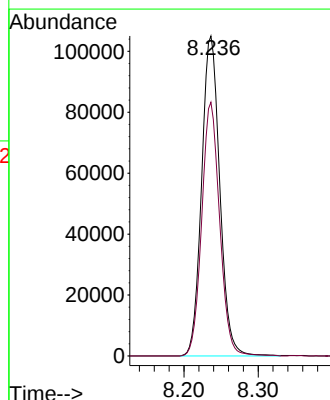
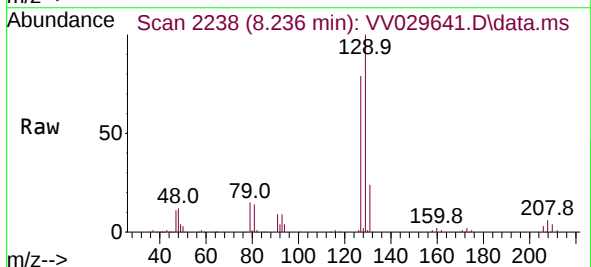
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 63.9  | 54.1  | 81.1  |
| 57  | 21.4  | 17.4  | 26.0  |
| 100 | 15.5  | 13.6  | 20.4  |

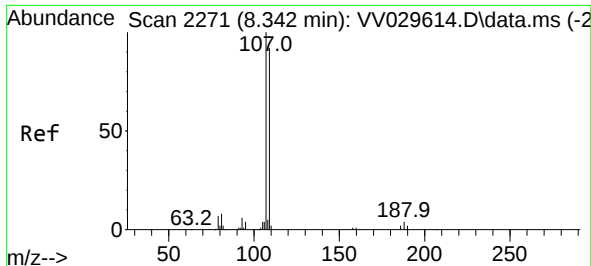


#49  
Dibromochloromethane  
Concen: 48.241 ug/L  
RT: 8.236 min Scan# 2238  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Tgt Ion: 129 Resp: 178641

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 79.3  | 55.2  | 102.4 |





#50

1,2-Dibromoethane

Concen: 48.610 ug/L

RT: 8.342 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050386

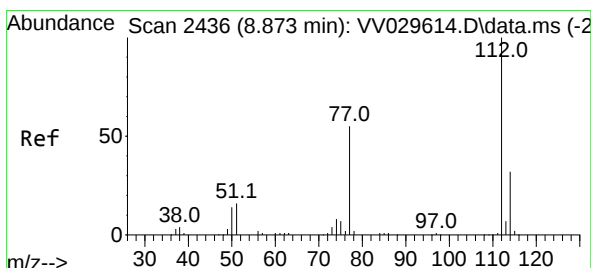
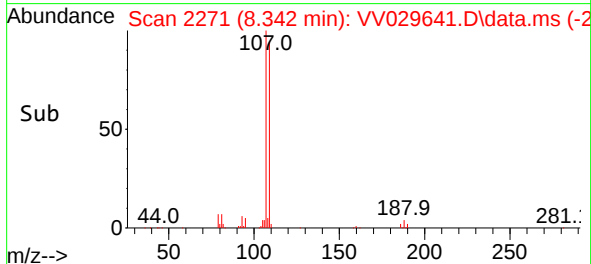
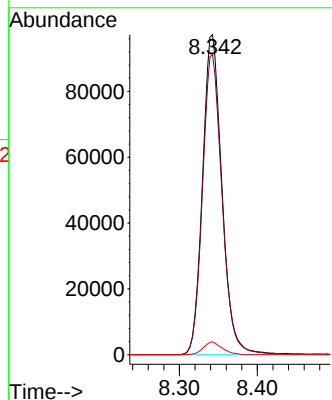
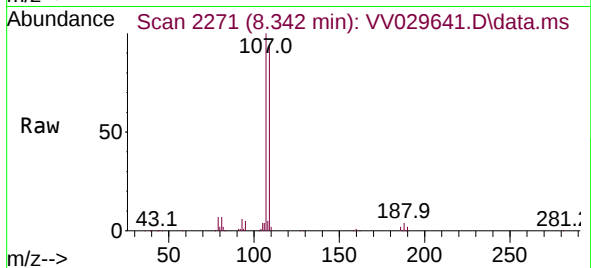
Tgt Ion:107 Resp: 167973

Ion Ratio Lower Upper

107 100

109 93.8 66.0 122.6

188 4.0 3.2 4.8



#51

Chlorobenzene

Concen: 49.556 ug/L

RT: 8.870 min Scan# 2435

Delta R.T. -0.003 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

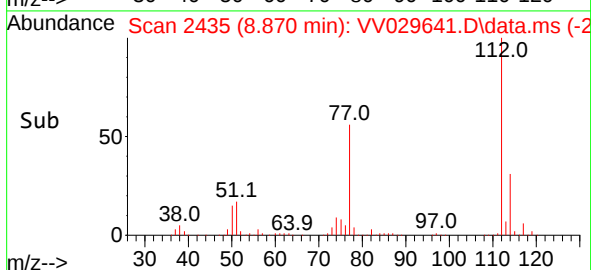
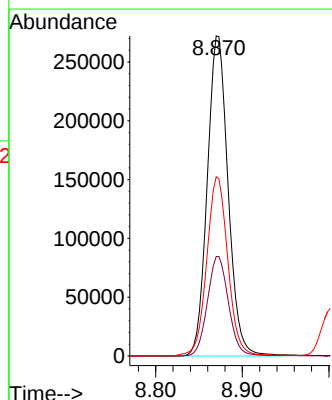
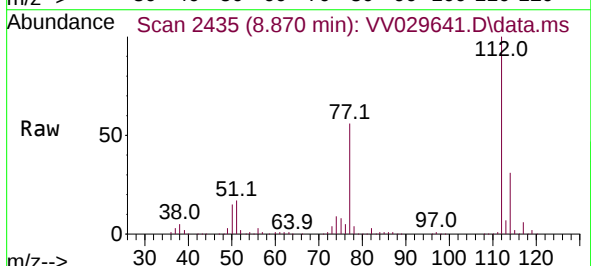
Tgt Ion:112 Resp: 454326

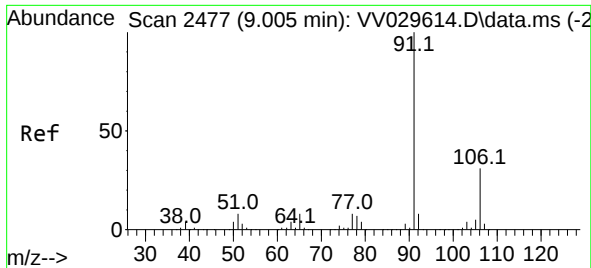
Ion Ratio Lower Upper

112 100

114 31.1 22.3 41.3

77 56.0 45.0 67.4

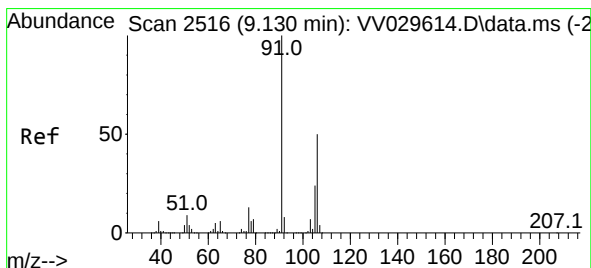
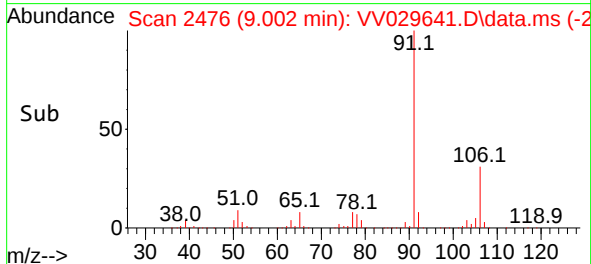
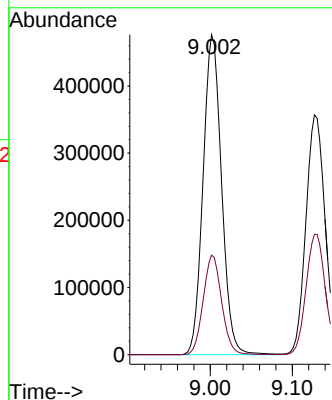
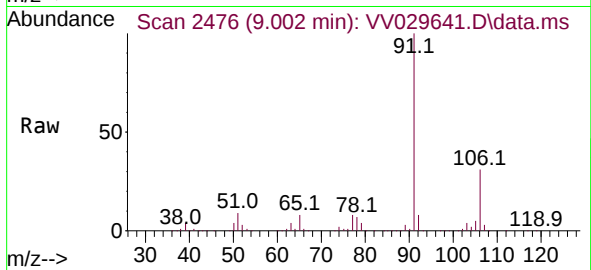




#52  
Ethylbenzene  
Concen: 49.002 ug/L  
RT: 9.002 min Scan# 2477  
Delta R.T. -0.003 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

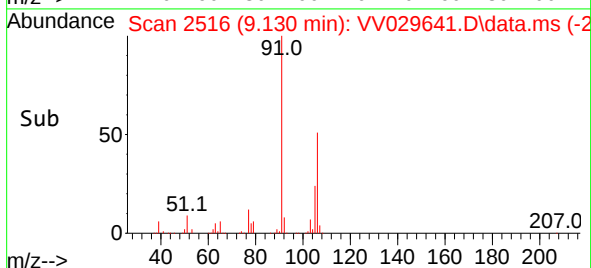
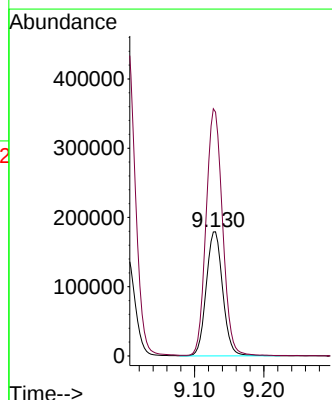
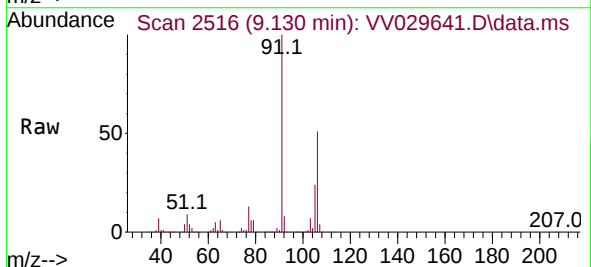
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

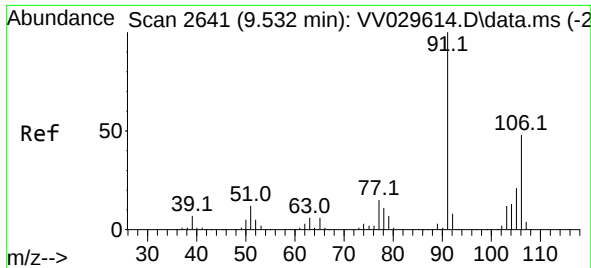
Tgt Ion: 91 Resp: 745885  
Ion Ratio Lower Upper  
91 100  
106 31.1 21.8 40.6



#53  
m,p-Xylene  
Concen: 48.903 ug/L  
RT: 9.130 min Scan# 2516  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Tgt Ion: 106 Resp: 294616  
Ion Ratio Lower Upper  
106 100  
91 196.5 139.5 259.1

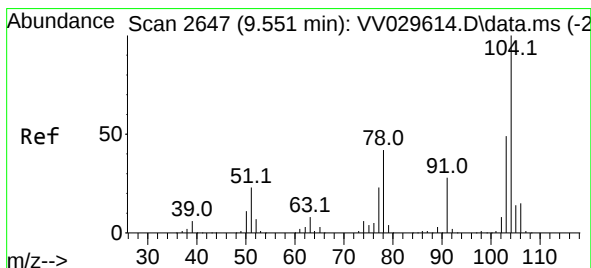
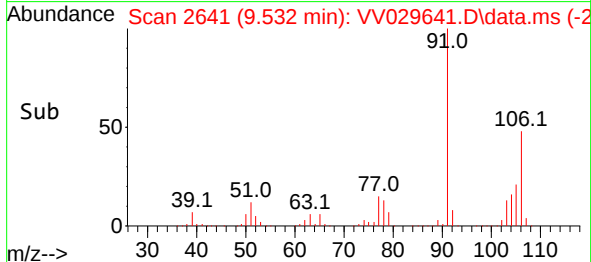
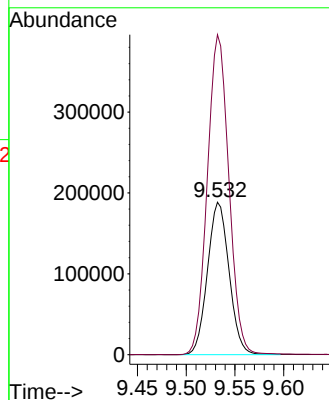
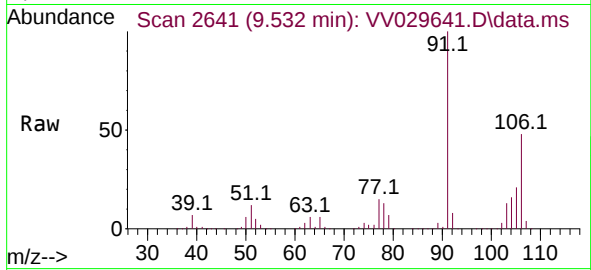




#54  
o-Xylene  
Concen: 48.749 ug/L  
RT: 9.532 min Scan# 2641  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

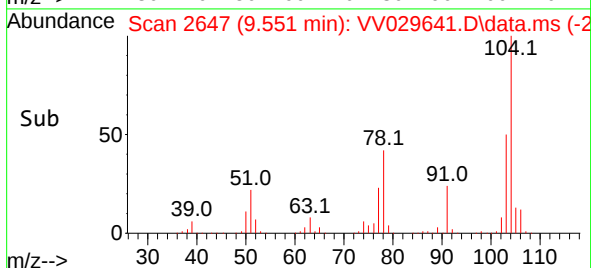
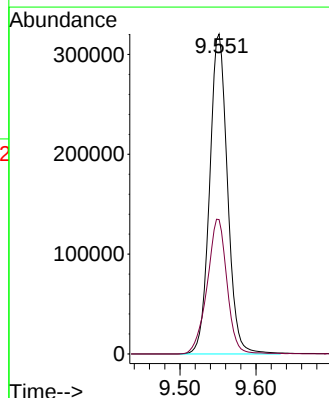
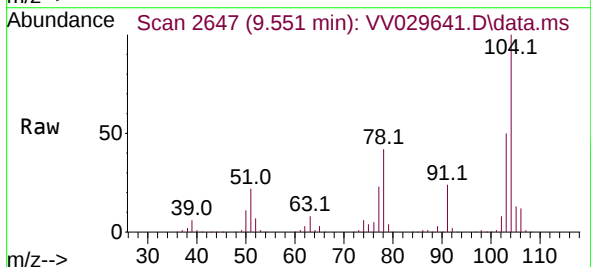
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

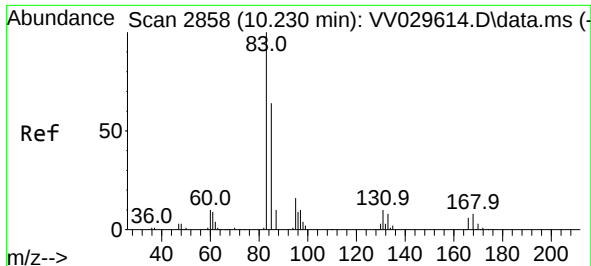
Tgt Ion:106 Resp: 290504  
Ion Ratio Lower Upper  
106 100  
91 209.8 148.0 274.8



#55  
Styrene  
Concen: 50.475 ug/L  
RT: 9.551 min Scan# 2647  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Tgt Ion:104 Resp: 522724  
Ion Ratio Lower Upper  
104 100  
78 42.0 29.4 54.6





#57

1,1,2,2-Tetrachloroethane

Concen: 48.563 ug/L

RT: 10.230 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050386

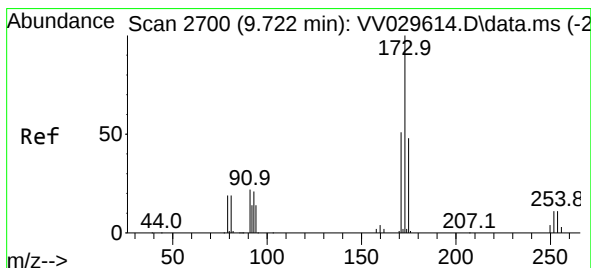
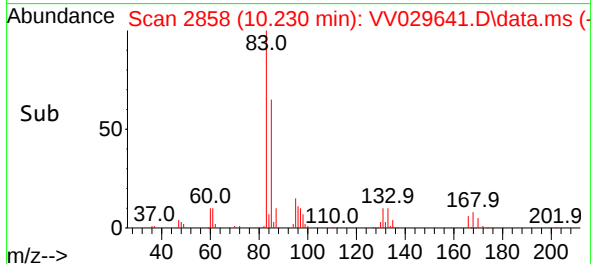
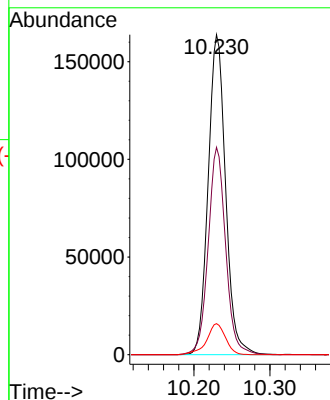
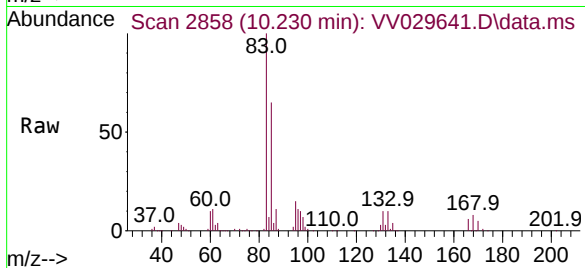
Tgt Ion: 83 Resp: 260556

Ion Ratio Lower Upper

83 100

85 64.8 45.7 84.9

131 9.7 7.9 11.9



#59

Bromoform

Concen: 44.984 ug/L

RT: 9.719 min Scan# 2699

Delta R.T. -0.003 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

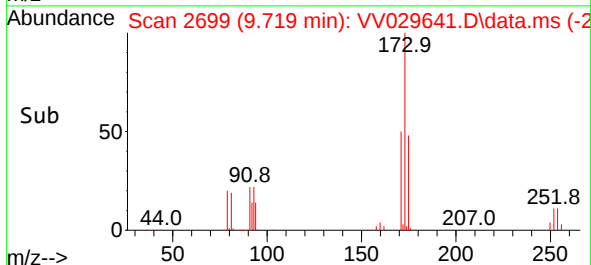
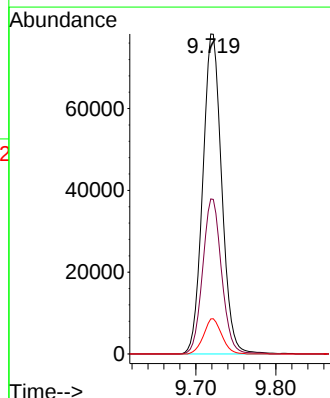
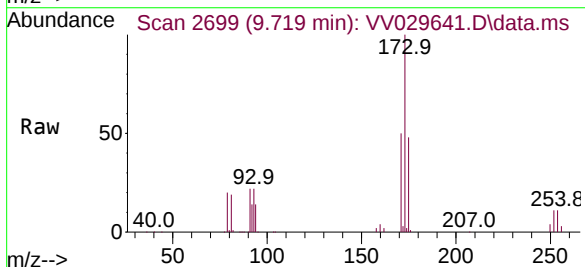
Tgt Ion: 173 Resp: 129081

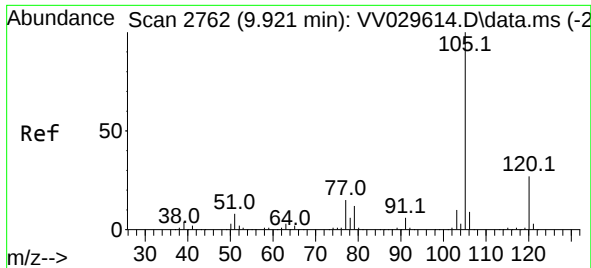
Ion Ratio Lower Upper

173 100

175 48.3 38.4 57.6

254 10.6 7.8 11.8

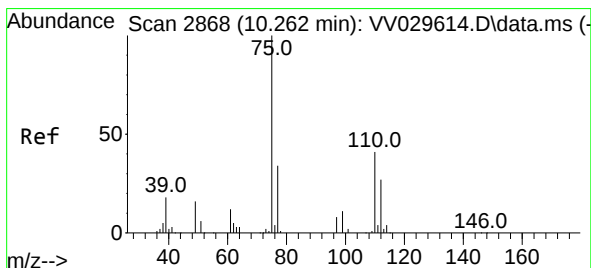
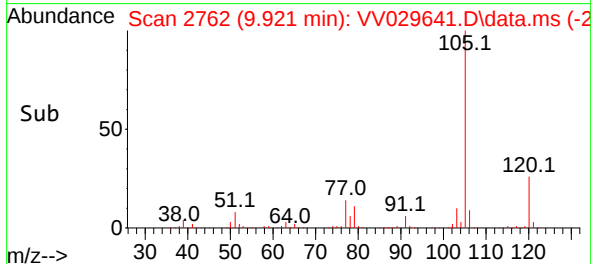
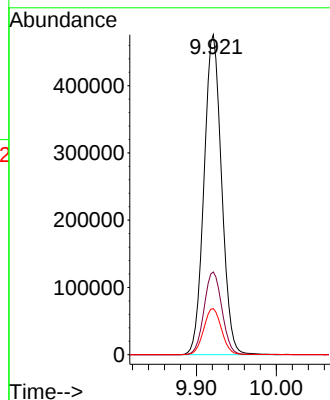
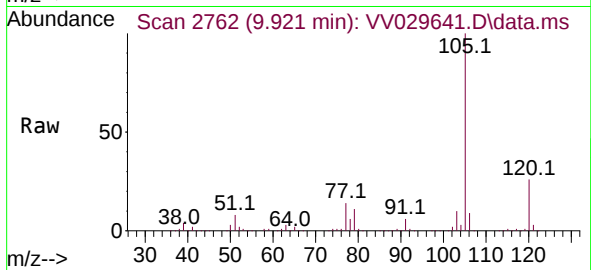




#60  
Isopropylbenzene  
Concen: 47.699 ug/L  
RT: 9.921 min Scan# 2762  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

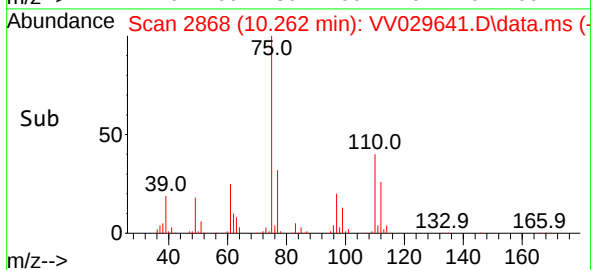
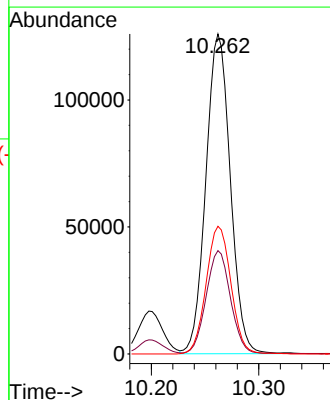
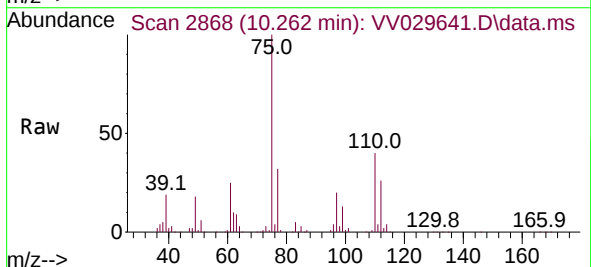
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

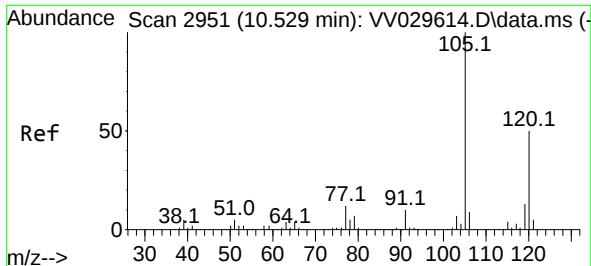
Tgt Ion:105 Resp: 727467  
Ion Ratio Lower Upper  
105 100  
120 26.4 21.1 31.7  
77 14.7 11.6 17.4



#61  
1,2,3-Trichloropropane  
Concen: 49.625 ug/L  
RT: 10.262 min Scan# 2868  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Tgt Ion: 75 Resp: 198976  
Ion Ratio Lower Upper  
75 100  
77 32.3 25.4 38.2  
110 40.4 32.7 49.1





#62

1,3,5-Trimethylbenzene

Concen: 47.468 ug/L

RT: 10.529 min Scan# 2951

Delta R.T. 0.000 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Instrument :

MSVOA\_V

ClientSampleId :

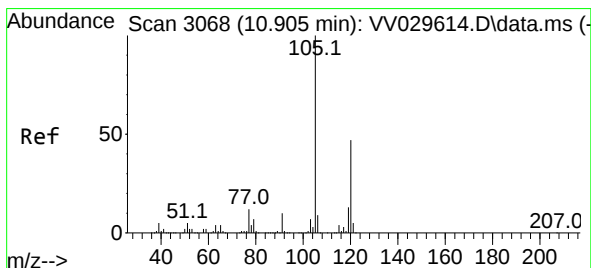
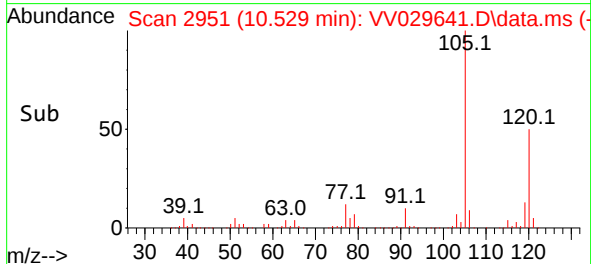
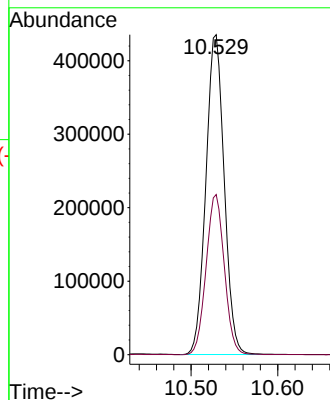
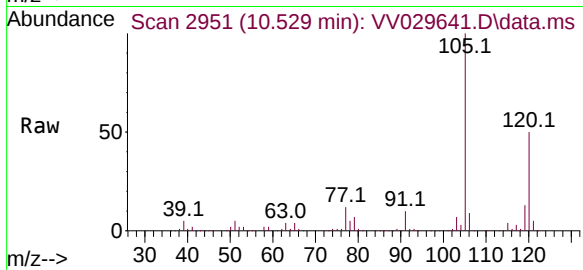
VSTD050386

Tgt Ion:105 Resp: 640092

Ion Ratio Lower Upper

105 100

120 49.8 40.0 60.0



#63

1,2,4-Trimethylbenzene

Concen: 47.701 ug/L

RT: 10.902 min Scan# 3067

Delta R.T. -0.003 min

Lab File: VV029641.D

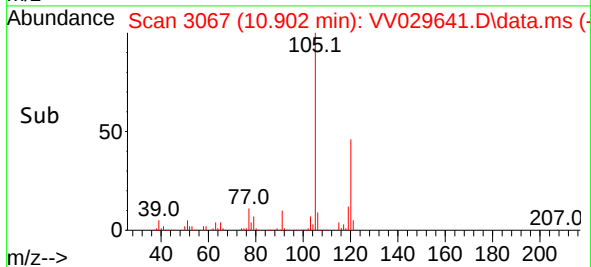
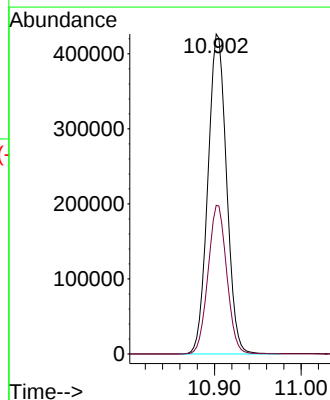
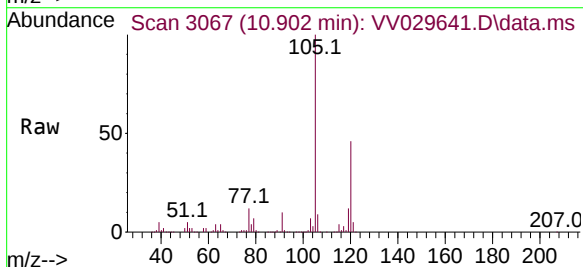
Acq: 13 Dec 2022 09:53

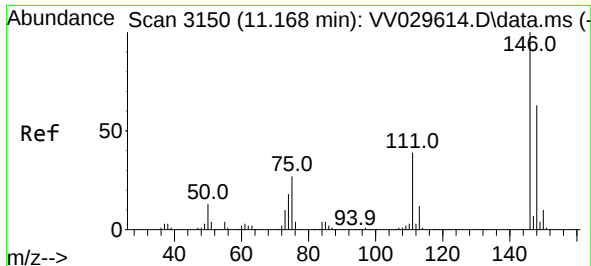
Tgt Ion:105 Resp: 637608

Ion Ratio Lower Upper

105 100

120 46.6 36.7 55.1

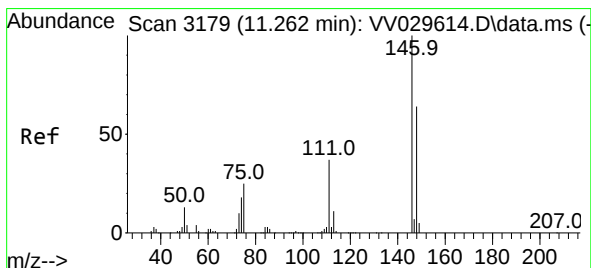
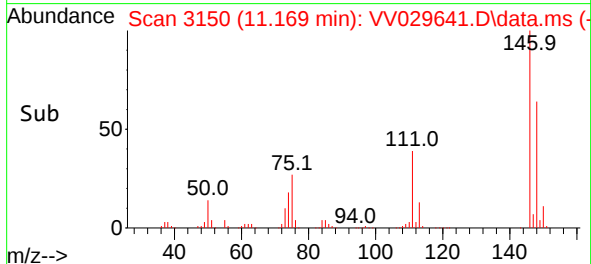
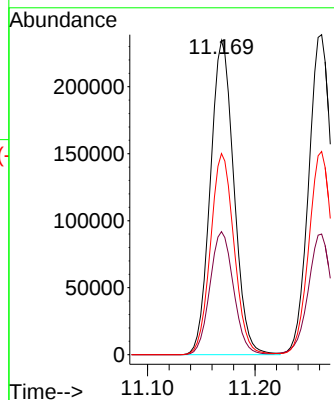
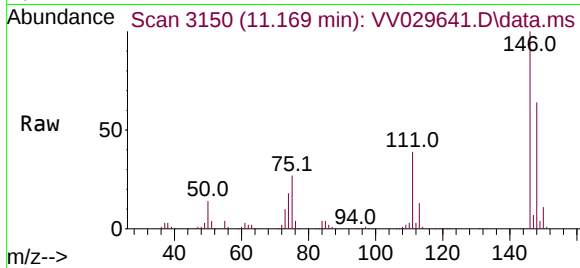




#64  
1,3-Dichlorobenzene  
Concen: 47.972 ug/L  
RT: 11.169 min Scan# 3150  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

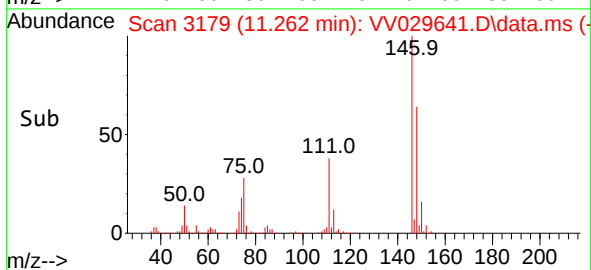
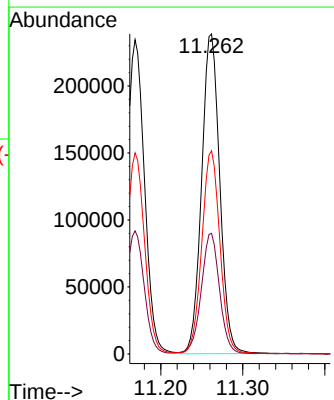
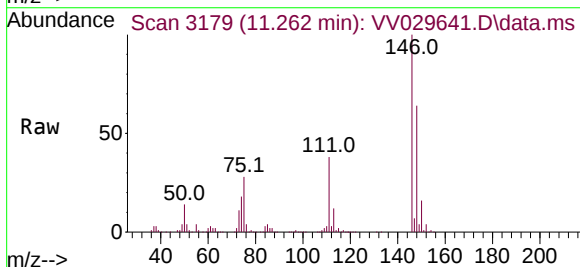
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

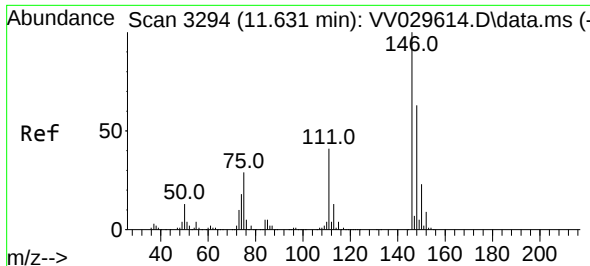
Tgt Ion:146 Resp: 357725  
Ion Ratio Lower Upper  
146 100  
111 39.2 27.4 51.0  
148 64.0 44.6 82.8



#65  
1,4-Dichlorobenzene  
Concen: 48.302 ug/L  
RT: 11.262 min Scan# 3179  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Tgt Ion:146 Resp: 366055  
Ion Ratio Lower Upper  
146 100  
111 37.7 26.2 48.8  
148 63.5 44.7 83.1

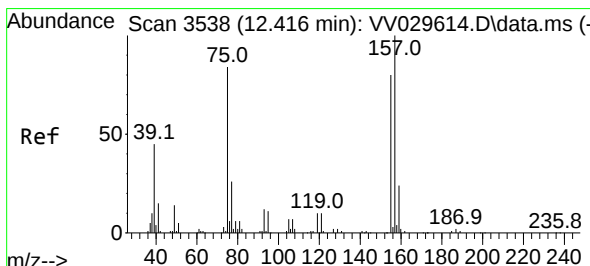
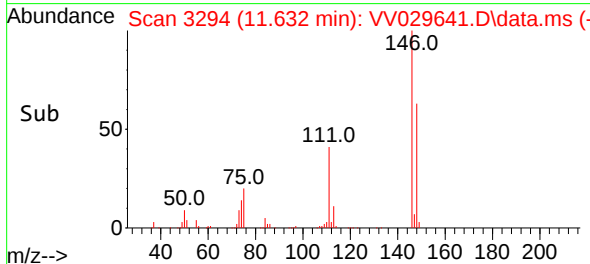
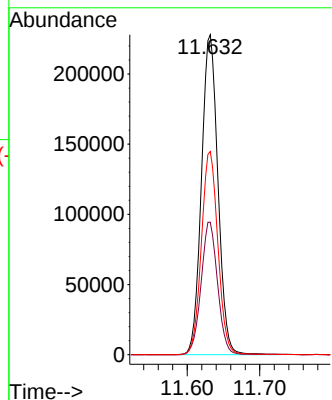
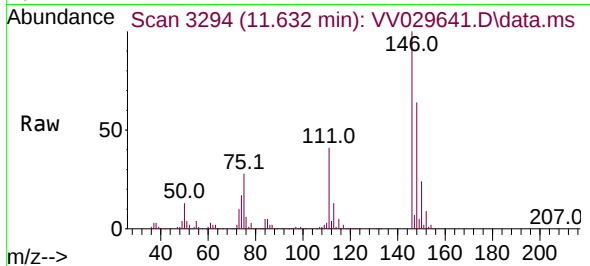




#67  
1,2-Dichlorobenzene  
Concen: 47.208 ug/L  
RT: 11.632 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

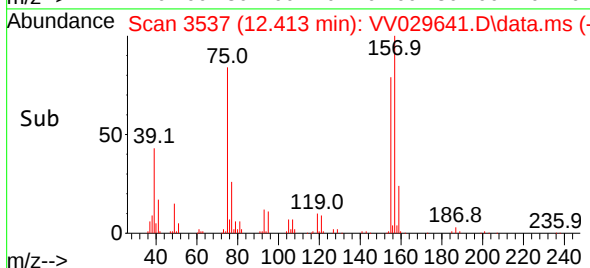
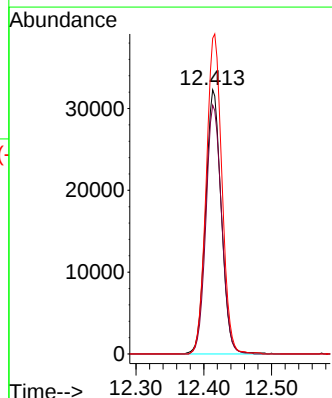
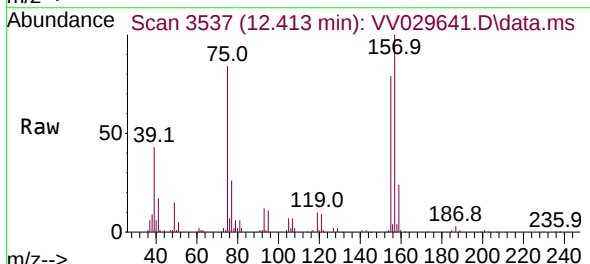
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

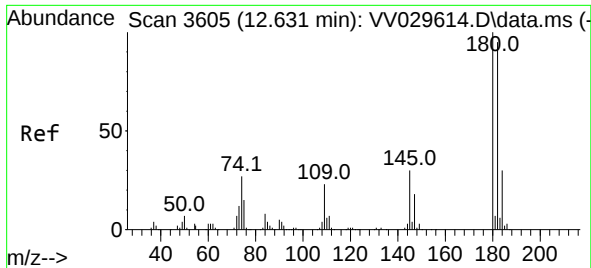
Tgt Ion:146 Resp: 359985  
Ion Ratio Lower Upper  
146 100  
111 41.4 32.0 48.0  
148 63.5 50.6 76.0



#68  
1,2-Dibromo-3-chloropropane  
Concen: 41.700 ug/L  
RT: 12.413 min Scan# 3537  
Delta R.T. -0.003 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

Tgt Ion: 75 Resp: 51967  
Ion Ratio Lower Upper  
75 100  
155 94.2 76.2 114.2  
157 119.6 96.0 144.0

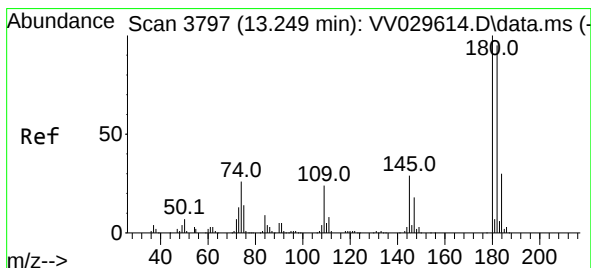
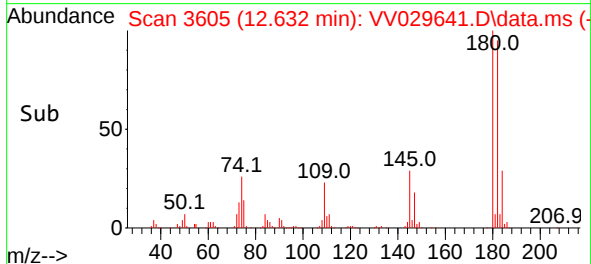
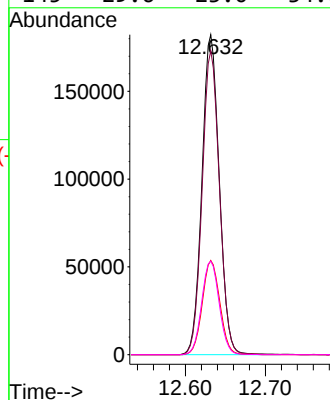
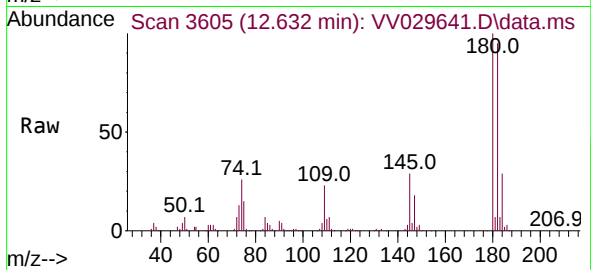




#69  
1,3,5-Trichlorobenzene  
Concen: 46.334 ug/L  
RT: 12.632 min Scan# 3605  
Delta R.T. 0.000 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

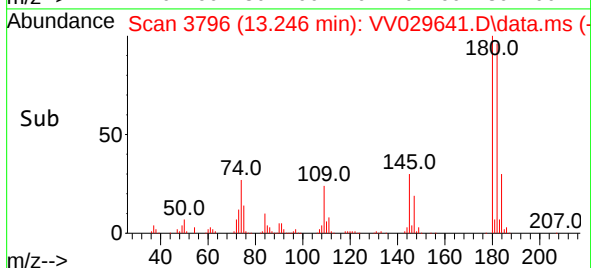
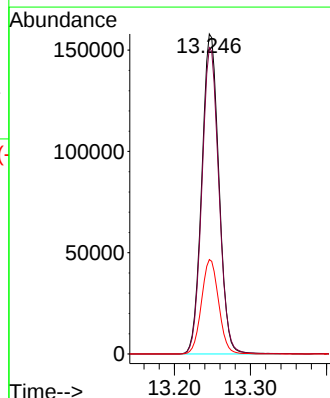
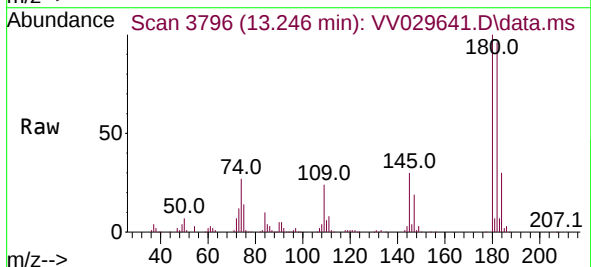
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

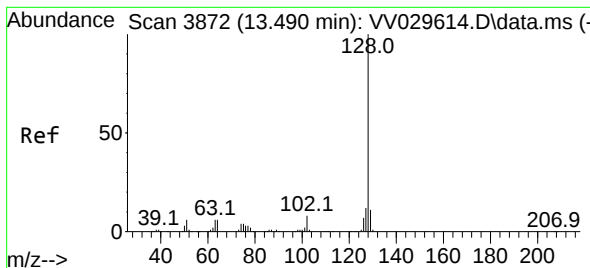
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 274965 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.0  | 76.5  | 114.7  |
| 184       | 29.8  | 24.6  | 36.8   |
| 145       | 29.6  | 23.0  | 34.6   |



#70  
1,2,4-trichlorobenzene  
Concen: 46.843 ug/L  
RT: 13.246 min Scan# 3796  
Delta R.T. -0.003 min  
Lab File: VV029641.D  
Acq: 13 Dec 2022 09:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 247194 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.3  | 76.3  | 114.5  |
| 145       | 29.5  | 23.7  | 35.5   |





#71

Naphthalene

Concen: 49.372 ug/L

RT: 13.490 min Scan# 3872

Delta R.T. 0.000 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050386

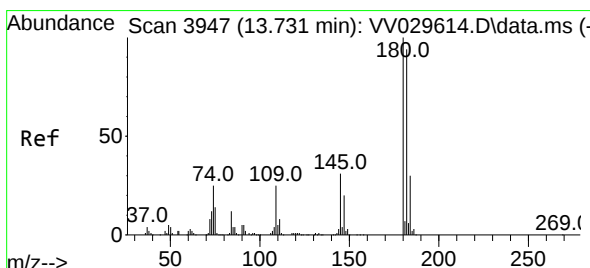
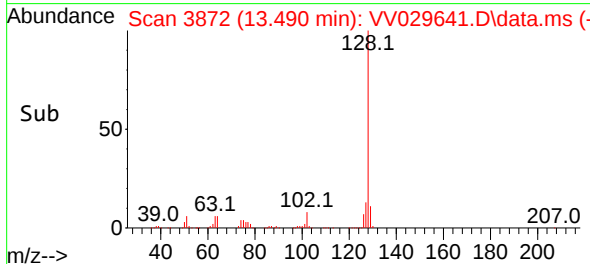
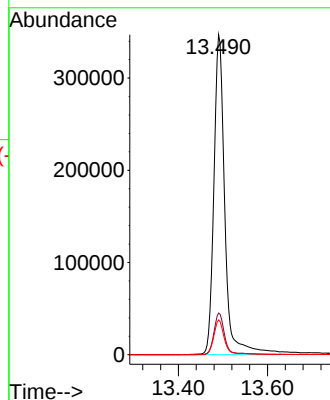
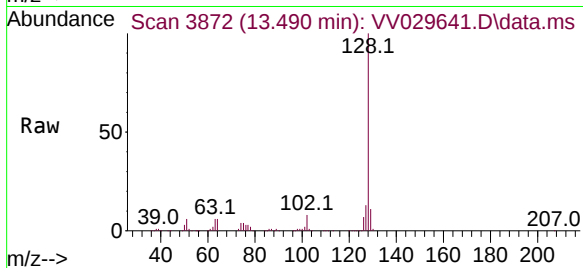
Tgt Ion:128 Resp: 590975

Ion Ratio Lower Upper

128 100

127 12.0 10.2 15.4

129 10.1 8.5 12.7



#72

1,2,3-Trichlorobenzene

Concen: 47.948 ug/L

RT: 13.728 min Scan# 3946

Delta R.T. -0.003 min

Lab File: VV029641.D

Acq: 13 Dec 2022 09:53

Tgt Ion:180 Resp: 247829

Ion Ratio Lower Upper

180 100

182 95.3 76.4 114.6

145 31.7 25.0 37.6

