

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW102224\  
 Data File : VW030696.D  
 Acq On : 22 Oct 2024 12:04  
 Operator : SY/MD  
 Sample : P4415-01DL 2X  
 Misc : 5.00g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Oct 23 01:36:26 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM100924SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Wed Oct 23 01:34:41 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.843  | 114   | 258734   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.629 | 117   | 235352   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.556 | 152   | 115259   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.363  | 65    | 60000    | 14.753   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 59.000%  |
| 7) Chloroethane-d5            | 2.899  | 69    | 54797    | 17.800   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 71.200%  |
| 11) 1,1-Dichloroethene-d2     | 4.021  | 65    | 26381    | 15.596   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 62.400%  |
| 21) 2-Butanone-d5             | 7.075  | 46    | 32780    | 44.788   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 89.580%  |
| 24) Chloroform-d              | 7.654  | 84    | 157219   | 21.248   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 85.000%  |
| 26) 1,2-Dichloroethane-d4     | 8.423  | 65    | 138      | 0.036    | ug/L   | 0.12     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 0.160%#  |
| 32) Benzene-d6                | 8.276  | 84    | 249425   | 18.260   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 73.040%  |
| 36) 1,2-Dichloropropane-d6    | 9.276  | 67    | 81349    | 20.290   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 81.160%  |
| 41) Toluene-d8                | 10.325 | 98    | 238225   | 19.104   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 76.400%  |
| 43) trans-1,3-Dichloroprop... | 10.575 | 79    | 31496    | 18.761   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 75.040%  |
| 47) 2-Hexanone-d5             | 10.922 | 63    | 24351    | 47.156   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 94.320%  |
| 56) 1,1,2,2-Tetrachloroeth... | 12.690 | 84    | 67141    | 22.803   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 91.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.848 | 152   | 80151    | 20.552   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 82.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 13) Acetone                   | 4.119  | 43    | 29615    | 27.639   | ug/L   | 96       |
| 16) Methylene chloride        | 4.917  | 84    | 162037   | 41.426   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 5.429  | 96    | 58436    | 15.601   | ug/L   | 94       |
| 18) Methyl tert-butyl Ether   | 5.429  | 73    | 117094   | 22.336   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 6.216  | 63    | 323217   | 46.427   | ug/L   | 98       |
| 22) 2-Butanone                | 7.167  | 43    | 107545   | 93.112   | ug/L   | 95       |
| 25) Chloroform                | 7.679  | 83    | 350334   | 47.090   | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 7.874  | 97    | 2523     | 0.404    | ug/L   | 94       |
| 31) Carbon tetrachloride      | 8.069  | 117   | 47539    | 8.519    | ug/L   | 96       |
| 33) Benzene                   | 8.325  | 78    | 530428   | 34.633   | ug/L   | 100      |
| 34) Trichloroethene           | 9.087  | 95    | 210669   | 49.442   | ug/L   | 92       |
| 37) 1,2-Dichloropropane       | 9.368  | 63    | 74906    | 19.582   | ug/L   | 100      |
| 39) cis-1,3-Dichloropropene   | 10.069 | 75    | 184345   | 31.950   | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone      | 10.209 | 43    | 143555   | 78.119   | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 10.605 | 75    | 177978   | 36.708   | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane     | 10.788 | 97    | 71146    | 25.735   | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 11.233 | 107   | 60826    | 23.579   | ug/L   | 97       |
| 53) m,p-Xylene                | 11.837 | 106   | 173807   | 24.883   | ug/L   | 98       |
| 54) o-Xylene                  | 12.160 | 106   | 218504   | 33.836   | ug/L   | 87       |

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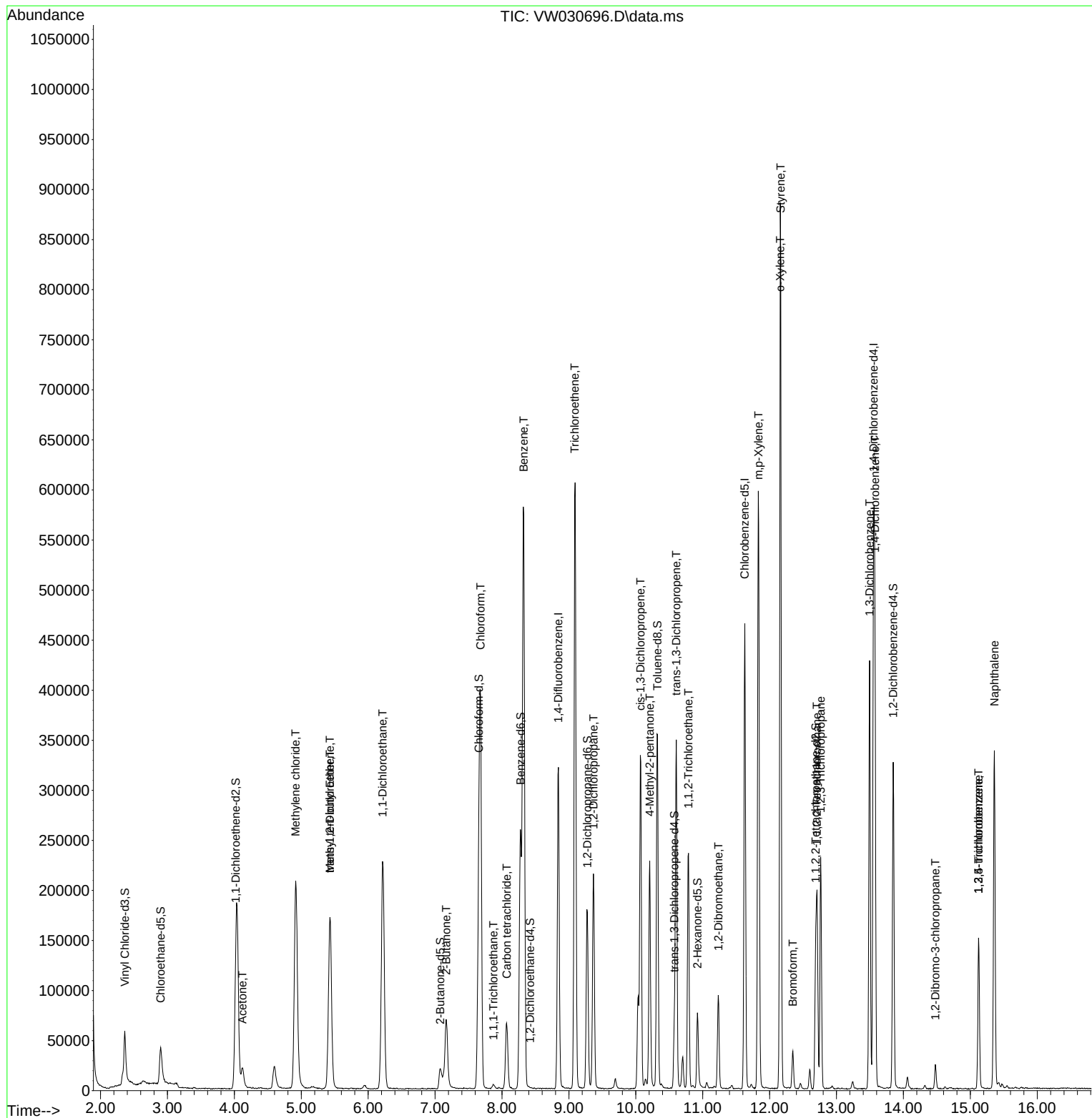
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| 55) Styrene                   | 12.166 | 104  | 12629    | 1.144  | ug/L # | 1        |
| 57) 1,1,2,2-Tetrachloroethane | 12.708 | 83   | 81155    | 26.032 | ug/L   | 94       |
| 59) Bromoform                 | 12.349 | 173  | 15449    | 9.540  | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 12.763 | 75   | 88729    | 39.561 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 13.495 | 146  | 156588   | 20.155 | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 13.574 | 146  | 159672   | 19.904 | ug/L   | 93       |
| 68) 1,2-Dibromo-3-chloropr... | 14.476 | 75   | 6051     | 12.100 | ug/L   | 92       |
| 69) 1,3,5-Trichlorobenzene    | 15.123 | 180  | 43788    | 8.547  | ug/L   | 95       |
| 70) 1,2,4-trichlorobenzene    | 15.123 | 180  | 43788    | 10.617 | ug/L   | 98       |
| 71) Naphthalene               | 15.360 | 128  | 265840   | 37.307 | ug/L   | 99       |
| -----                         |        |      |          |        |        |          |

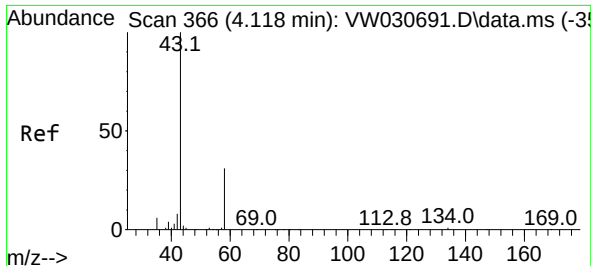
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#13

Acetone

Concen: 27.639 ug/L

RT: 4.119 min Scan# 3

Delta R.T. 0.000 min

Lab File: VW030696.D

Acq: 22 Oct 2024 12:04

Instrument :

MSVOA\_W

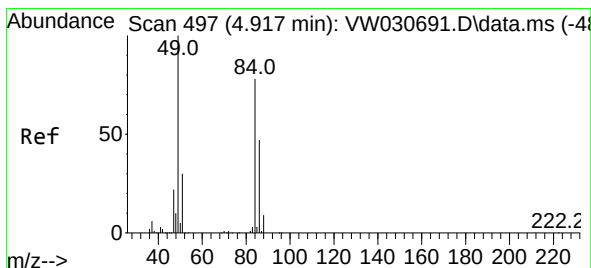
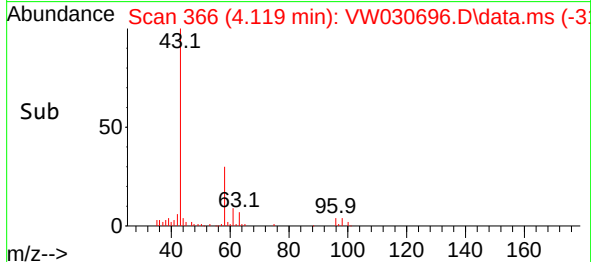
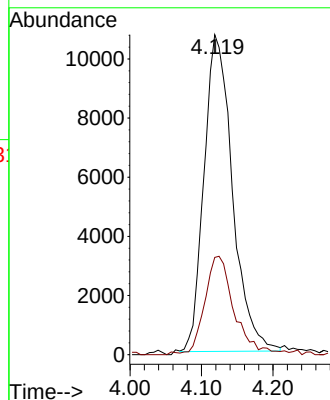
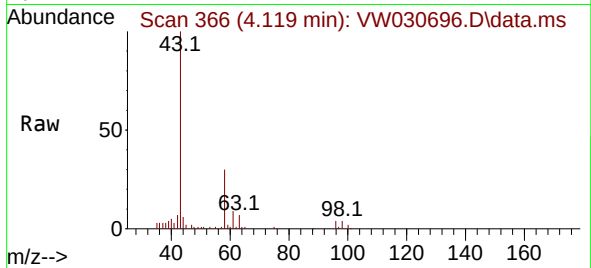
ClientSampleId :

Tgt Ion: 43 Resp: 29615

Ion Ratio Lower Upper

43 100

58 30.8 0.0 57.6



#16

Methylene chloride

Concen: 41.426 ug/L

RT: 4.917 min Scan# 497

Delta R.T. 0.000 min

Lab File: VW030696.D

Acq: 22 Oct 2024 12:04

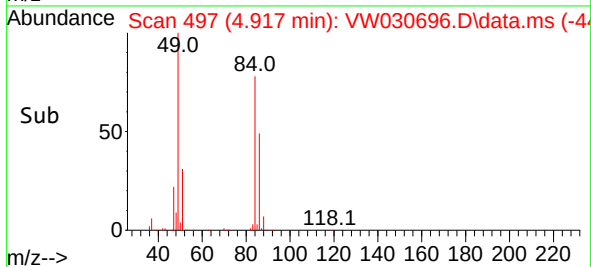
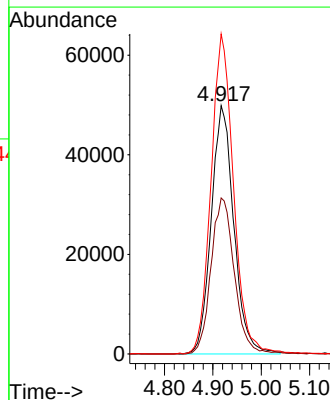
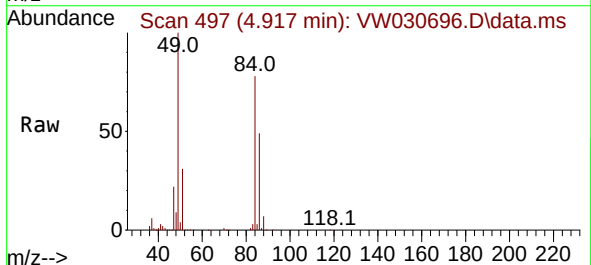
Tgt Ion: 84 Resp: 162037

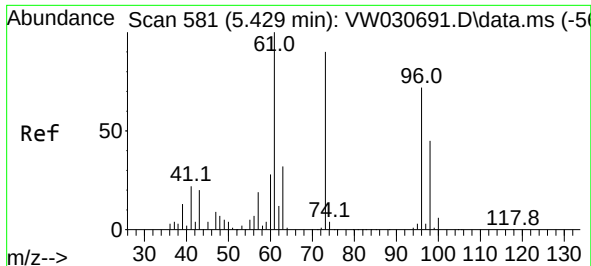
Ion Ratio Lower Upper

84 100

86 62.8 43.8 81.3

49 128.8 88.3 164.1

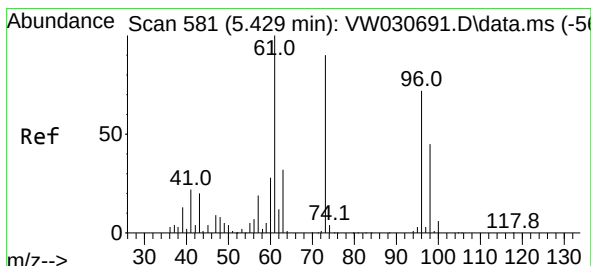
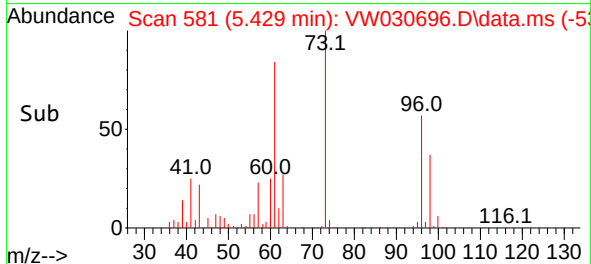
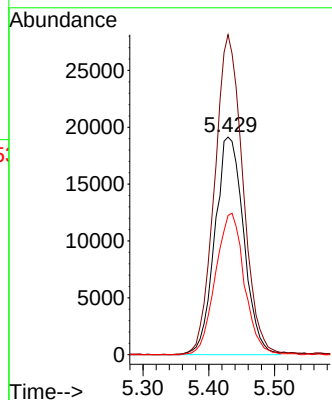
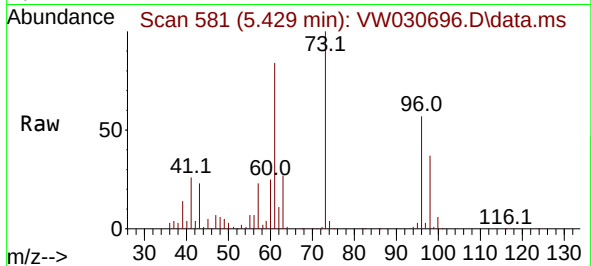




#17  
trans-1,2-Dichloroethene  
Concen: 15.601 ug/L  
RT: 5.429 min Scan# 581  
Delta R.T. 0.000 min  
Lab File: VW030696.D  
Acq: 22 Oct 2024 12:04

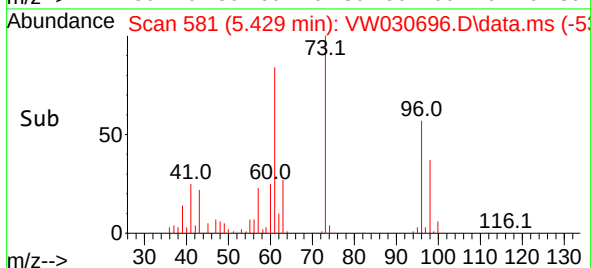
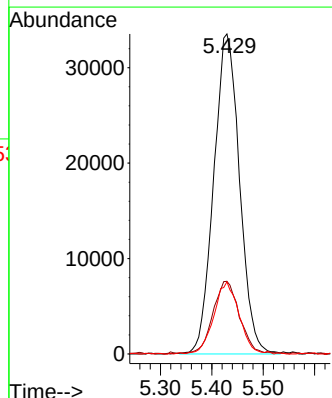
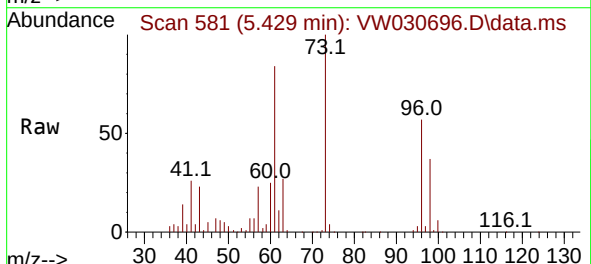
Instrument :  
MSVOA\_W  
ClientSampleId :

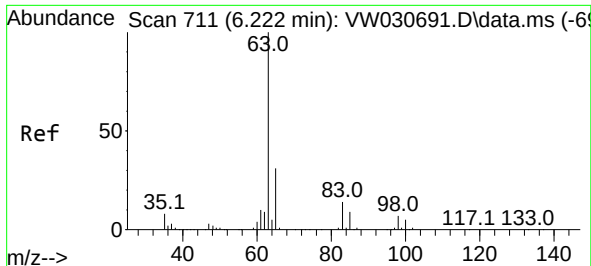
Tgt Ion: 96 Resp: 58436  
Ion Ratio Lower Upper  
96 100  
61 147.1 96.9 179.9  
98 64.0 42.2 78.4



#18  
Methyl tert-butyl Ether  
Concen: 22.336 ug/L  
RT: 5.429 min Scan# 581  
Delta R.T. 0.000 min  
Lab File: VW030696.D  
Acq: 22 Oct 2024 12:04

Tgt Ion: 73 Resp: 117094  
Ion Ratio Lower Upper  
73 100  
43 22.4 18.1 27.1  
57 21.8 17.7 26.5





#19

1,1-Dichloroethane

Concen: 46.427 ug/L

RT: 6.216 min Scan# 711

Delta R.T. -0.006 min

Lab File: VW030696.D

Acq: 22 Oct 2024 12:04

Instrument :

MSVOA\_W

ClientSampleId :

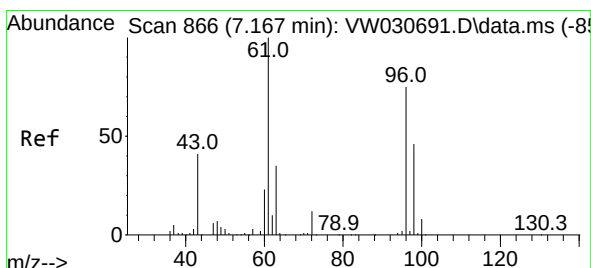
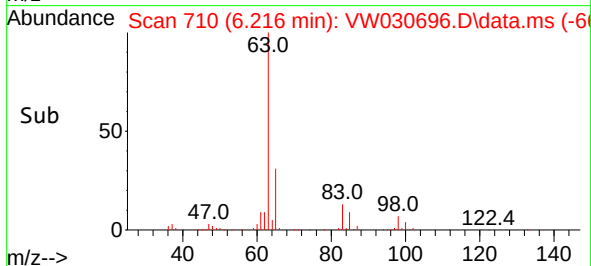
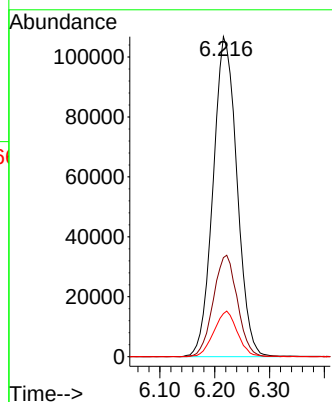
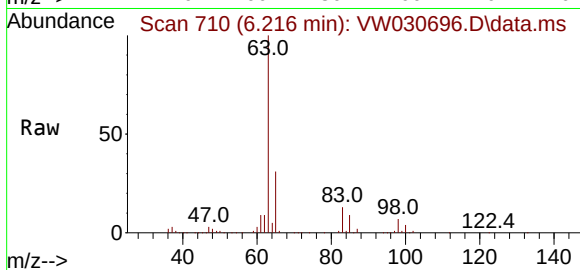
Tgt Ion: 63 Resp: 323217

Ion Ratio Lower Upper

63 100

65 31.0 22.5 41.9

83 13.4 9.8 18.2



#22

2-Butanone

Concen: 93.112 ug/L

RT: 7.167 min Scan# 866

Delta R.T. 0.000 min

Lab File: VW030696.D

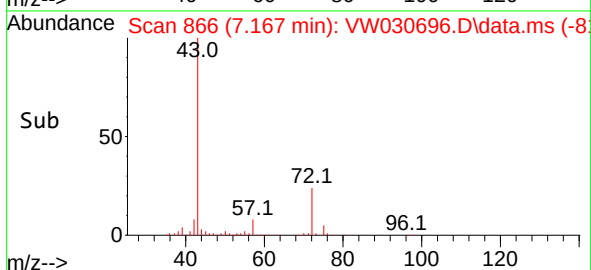
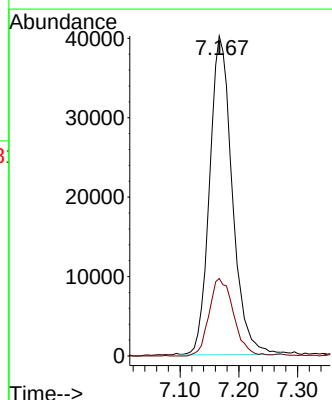
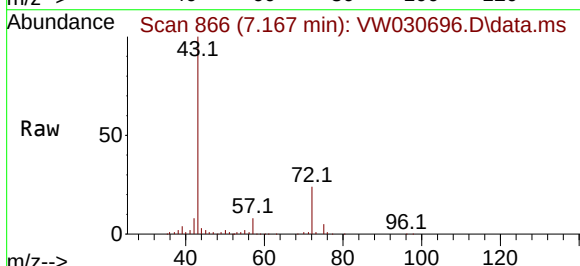
Acq: 22 Oct 2024 12:04

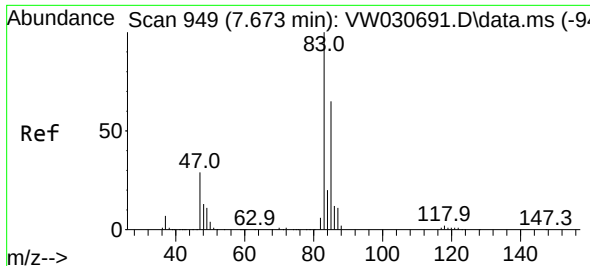
Tgt Ion: 43 Resp: 107545

Ion Ratio Lower Upper

43 100

72 26.1 14.4 43.0

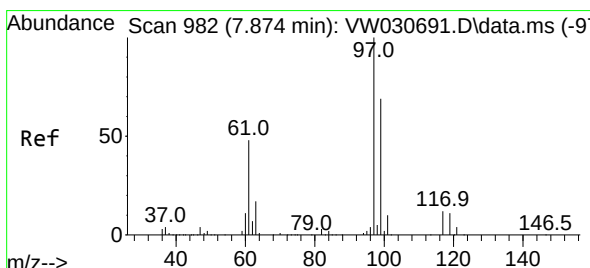
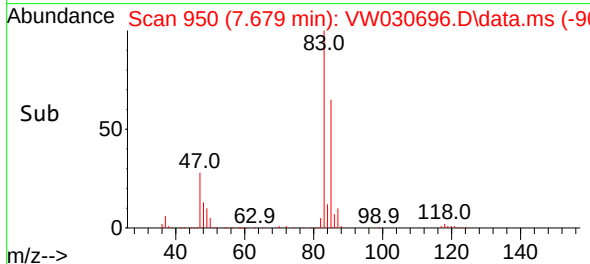
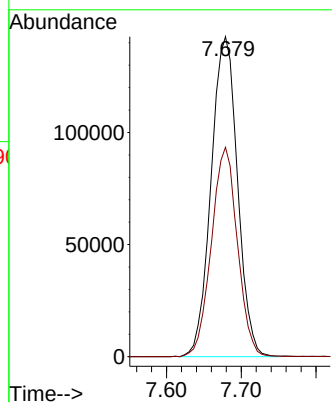
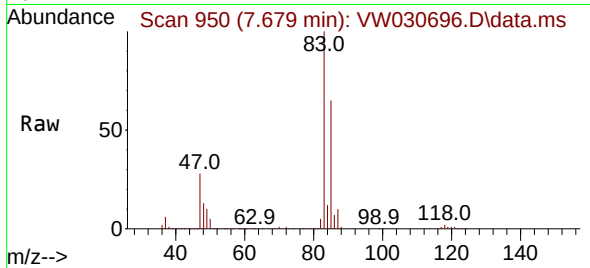




#25  
Chloroform  
Concen: 47.090 ug/L  
RT: 7.679 min Scan# 949  
Delta R.T. 0.006 min  
Lab File: VW030696.D  
Acq: 22 Oct 2024 12:04

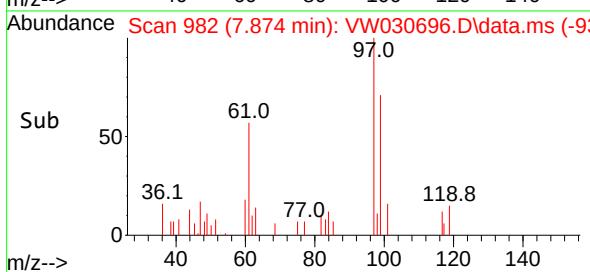
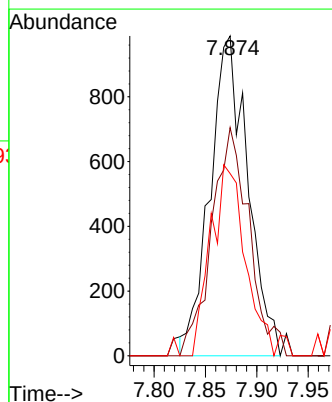
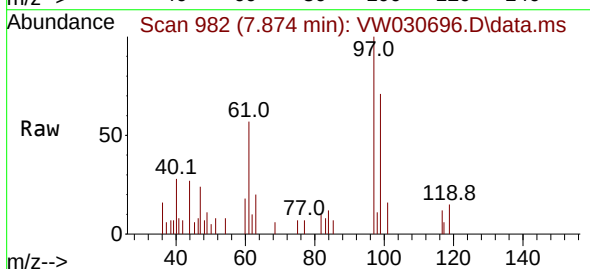
Instrument :  
MSVOA\_W  
ClientSampleId :

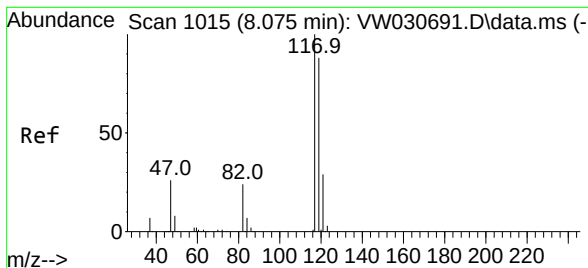
Tgt Ion: 83 Resp: 350334  
Ion Ratio Lower Upper  
83 100  
85 65.5 45.1 83.7



#30  
1,1,1-Trichloroethane  
Concen: 0.404 ug/L  
RT: 7.874 min Scan# 982  
Delta R.T. 0.000 min  
Lab File: VW030696.D  
Acq: 22 Oct 2024 12:04

Tgt Ion: 97 Resp: 2523  
Ion Ratio Lower Upper  
97 100  
99 68.4 52.3 78.5  
61 54.8 38.5 57.7





#31

Carbon tetrachloride

Concen: 8.519 ug/L

RT: 8.069 min Scan# 1014

Delta R.T. -0.006 min

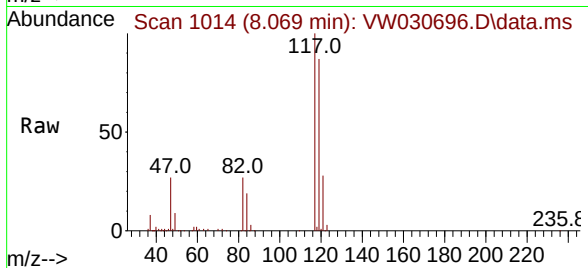
Lab File: VW030696.D

Acq: 22 Oct 2024 12:04

Instrument :

MSVOA\_W

ClientSampleId :

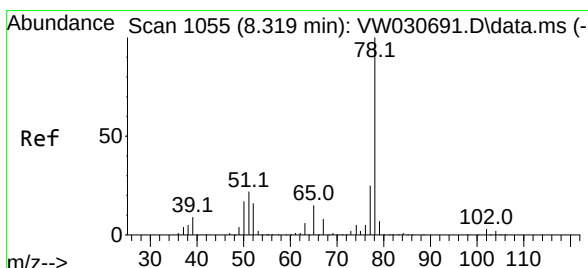
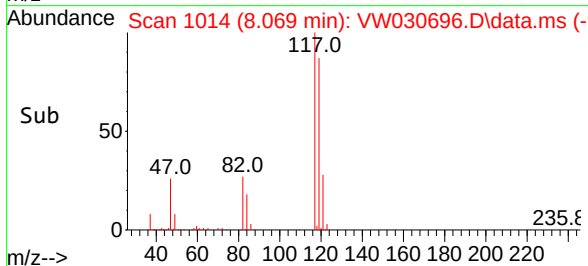
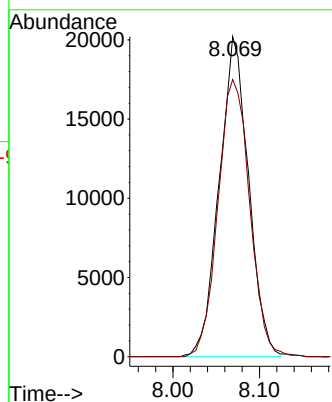


Tgt Ion:117 Resp: 47539

Ion Ratio Lower Upper

117 100

119 93.4 77.8 116.8



#33

Benzene

Concen: 34.633 ug/L

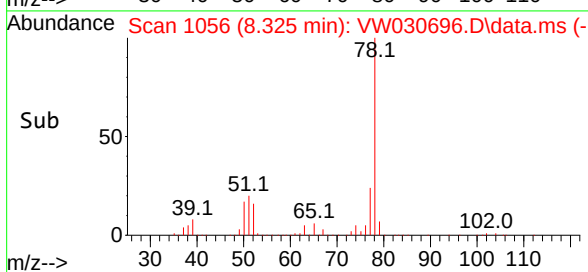
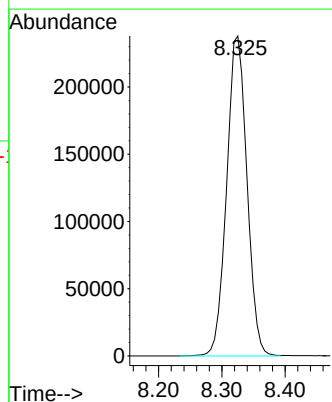
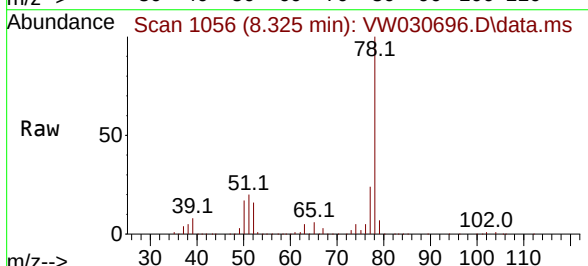
RT: 8.325 min Scan# 1056

Delta R.T. 0.006 min

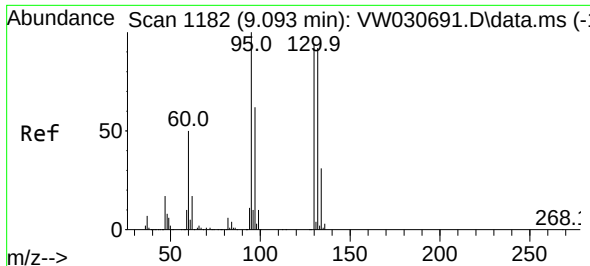
Lab File: VW030696.D

Acq: 22 Oct 2024 12:04

Tgt Ion: 78 Resp: 530428

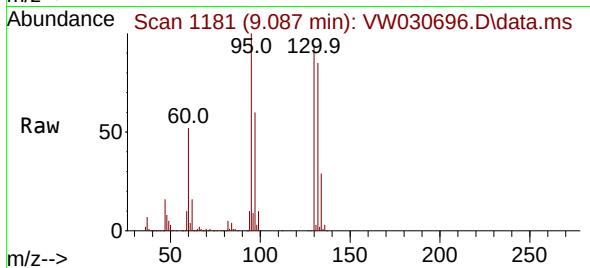




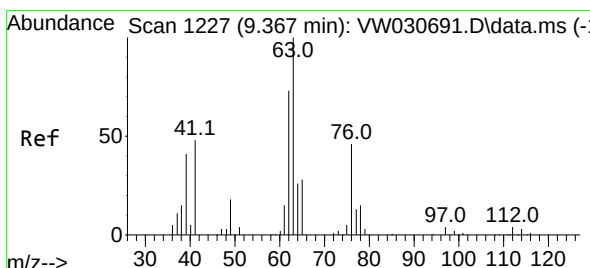
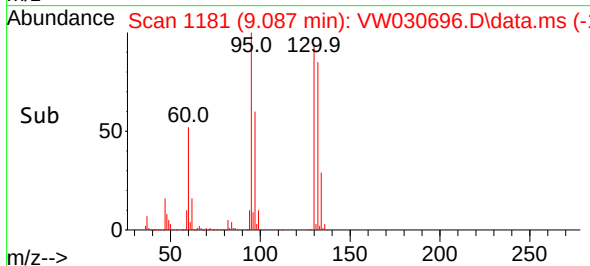
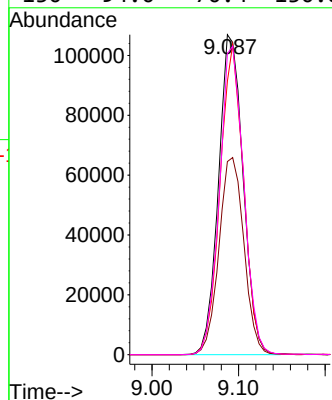


#34  
Trichloroethene  
Concen: 49.442 ug/L  
RT: 9.087 min Scan# 1182  
Delta R.T. -0.006 min  
Lab File: VW030696.D  
Acq: 22 Oct 2024 12:04

Instrument :  
MSVOA\_W  
ClientSampleId :

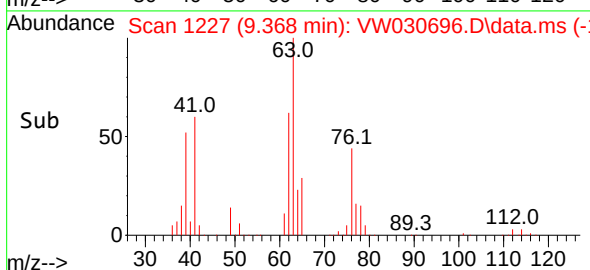
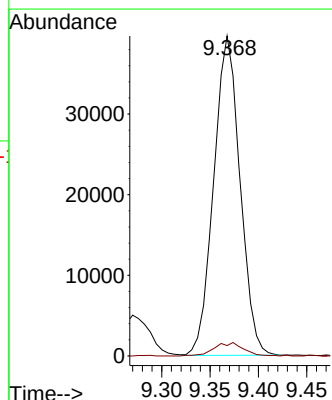
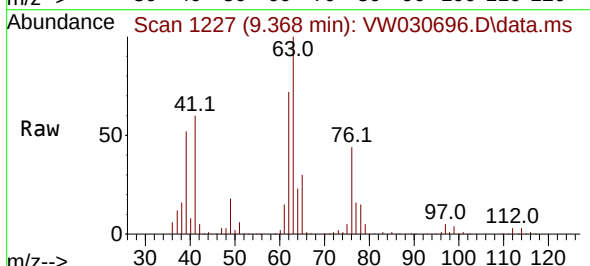


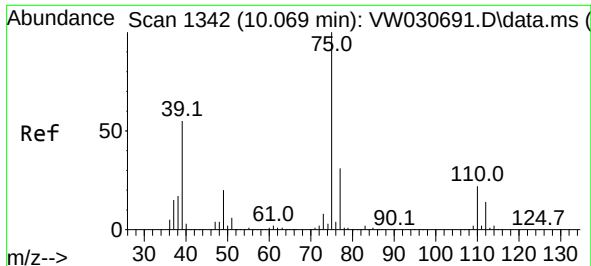
Tgt Ion: 95 Resp: 210669  
Ion Ratio Lower Upper  
95 100  
97 60.3 45.9 85.3  
132 85.4 66.4 123.2  
130 94.0 70.4 130.8



#37  
1,2-Dichloropropane  
Concen: 19.582 ug/L  
RT: 9.368 min Scan# 1227  
Delta R.T. 0.000 min  
Lab File: VW030696.D  
Acq: 22 Oct 2024 12:04

Tgt Ion: 63 Resp: 74906  
Ion Ratio Lower Upper  
63 100  
112 4.7 3.7 5.5





#39

cis-1,3-Dichloropropene

Concen: 31.950 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VW030696.D

Acq: 22 Oct 2024 12:04

Instrument :

MSVOA\_W

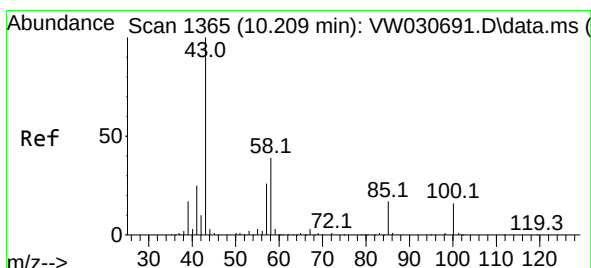
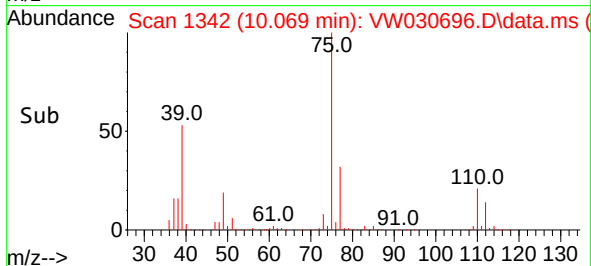
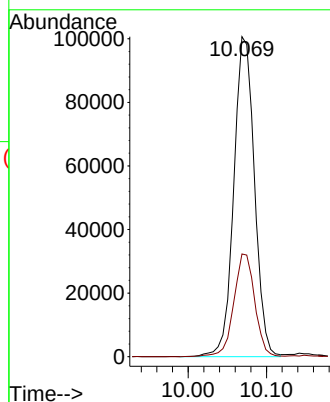
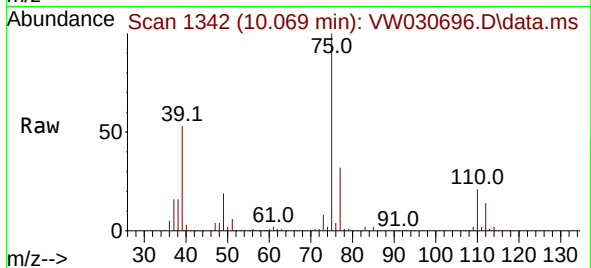
ClientSampleId :

Tgt Ion: 75 Resp: 184345

Ion Ratio Lower Upper

75 100

77 32.1 21.1 39.1



#40

4-Methyl-2-pentanone

Concen: 78.119 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW030696.D

Acq: 22 Oct 2024 12:04

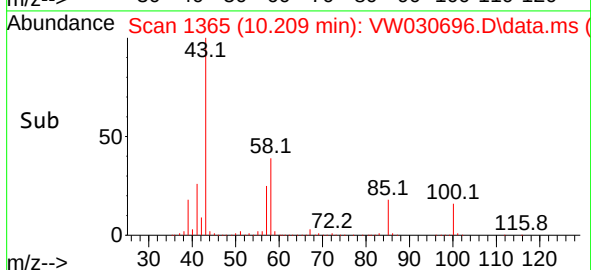
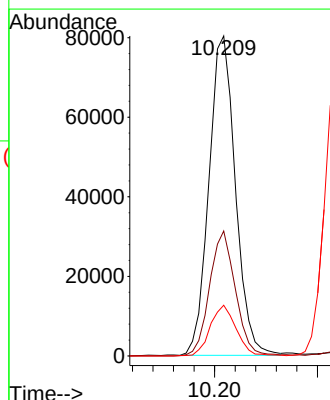
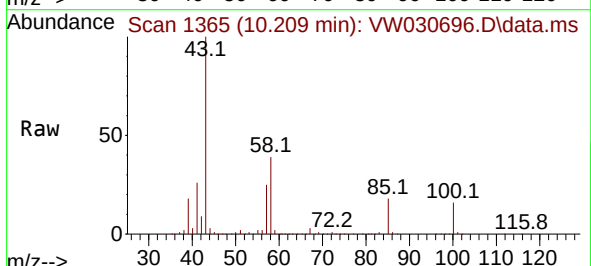
Tgt Ion: 43 Resp: 143555

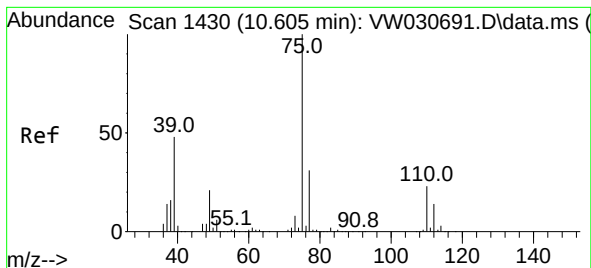
Ion Ratio Lower Upper

43 100

58 38.3 31.4 47.2

100 15.2 13.1 19.7





#44

trans-1,3-Dichloropropene

Concen: 36.708 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW030696.D

Acq: 22 Oct 2024 12:04

Instrument :

MSVOA\_W

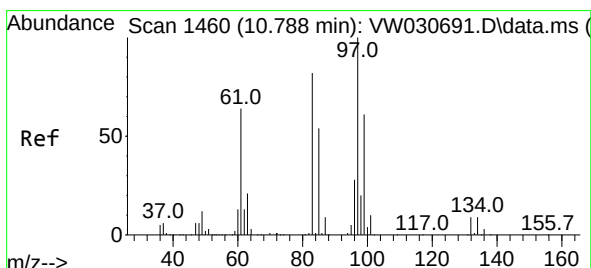
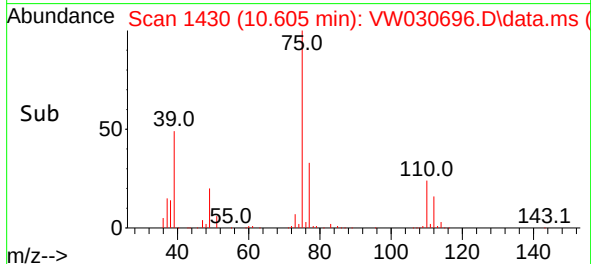
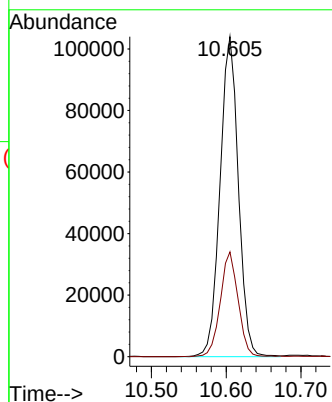
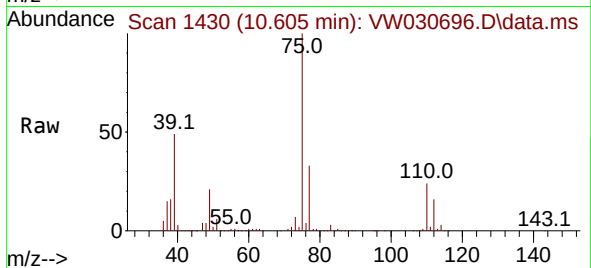
ClientSampleId :

Tgt Ion: 75 Resp: 177978

Ion Ratio Lower Upper

75 100

77 32.7 21.6 40.2



#45

1,1,2-Trichloroethane

Concen: 25.735 ug/L

RT: 10.788 min Scan# 1460

Delta R.T. 0.000 min

Lab File: VW030696.D

Acq: 22 Oct 2024 12:04

Tgt Ion: 97 Resp: 71146

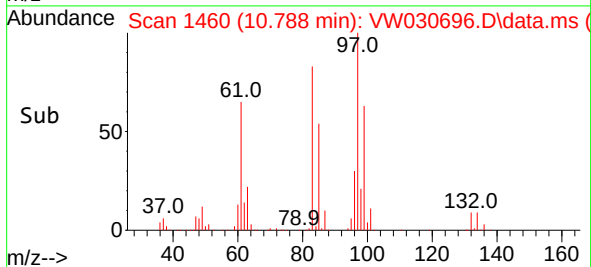
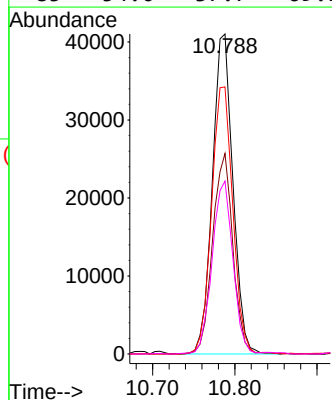
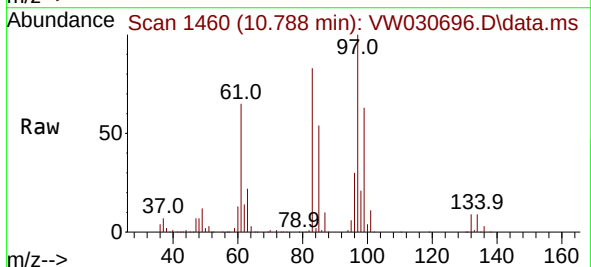
Ion Ratio Lower Upper

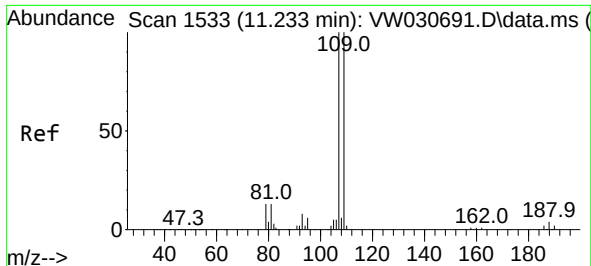
97 100

99 62.7 41.2 76.6

83 83.5 59.6 110.6

85 54.0 37.7 69.9





#50

1,2-Dibromoethane

Concen: 23.579 ug/L

RT: 11.233 min Scan# 1

Delta R.T. 0.000 min

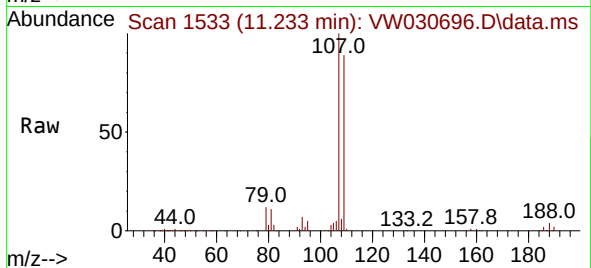
Lab File: VW030696.D

Acq: 22 Oct 2024 12:04

Instrument :

MSVOA\_W

ClientSampleId :



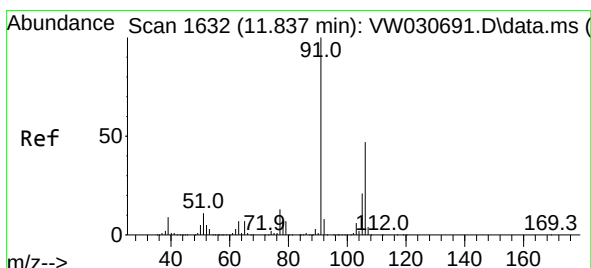
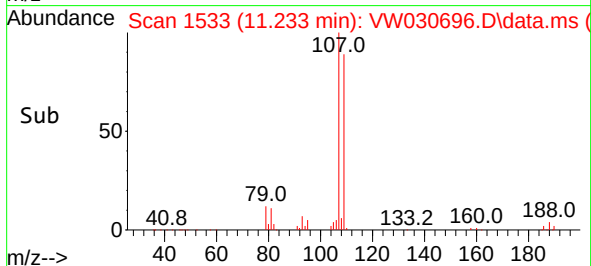
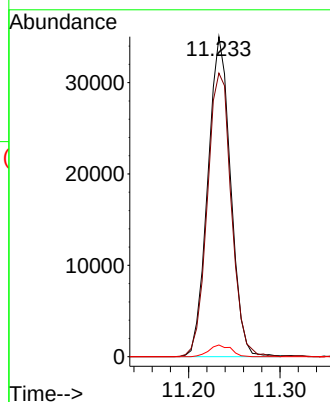
Tgt Ion:107 Resp: 60826

Ion Ratio Lower Upper

107 100

109 88.6 63.8 118.6

188 3.7 2.6 3.8



#53

m,p-Xylene

Concen: 24.883 ug/L

RT: 11.837 min Scan# 1632

Delta R.T. 0.000 min

Lab File: VW030696.D

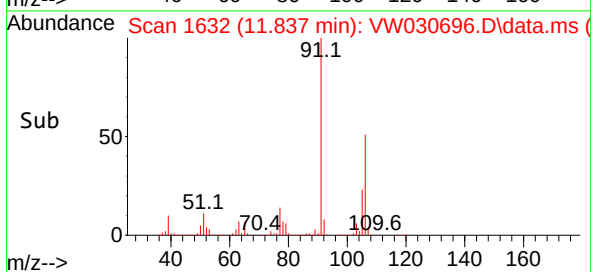
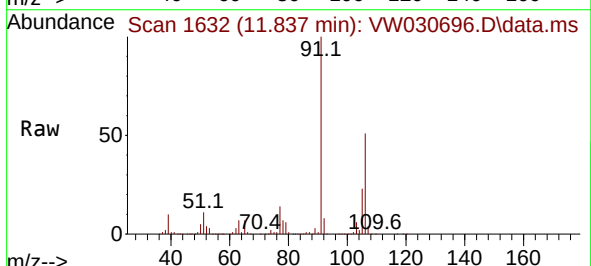
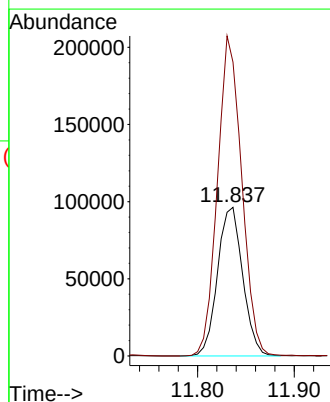
Acq: 22 Oct 2024 12:04

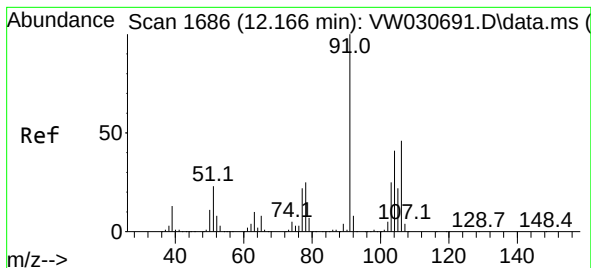
Tgt Ion:106 Resp: 173807

Ion Ratio Lower Upper

106 100

91 197.6 140.6 261.2

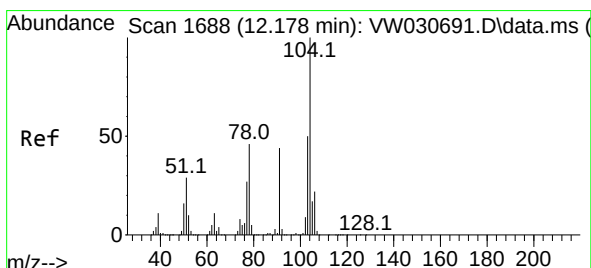
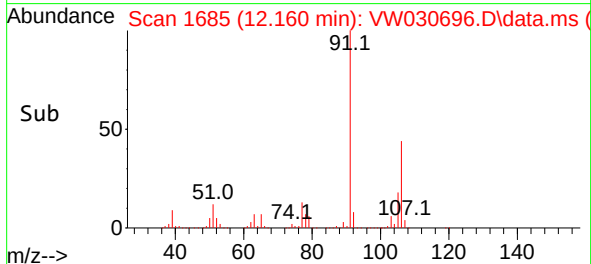
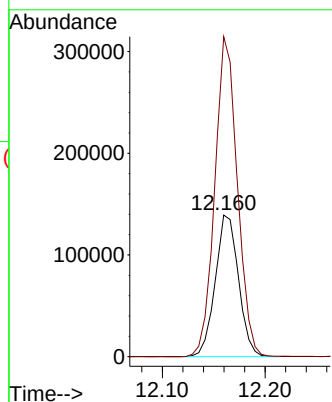
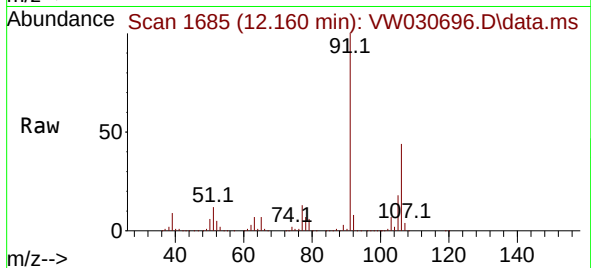




#54  
o-Xylene  
Concen: 33.836 ug/L  
RT: 12.160 min Scan# 1686  
Delta R.T. -0.006 min  
Lab File: VW030696.D  
Acq: 22 Oct 2024 12:04

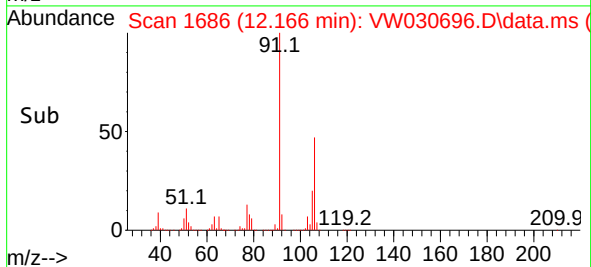
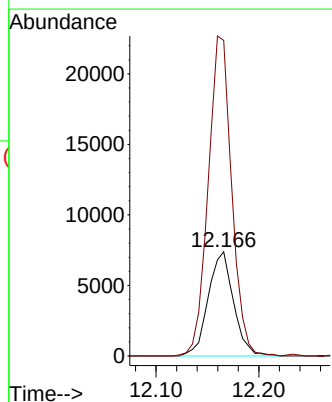
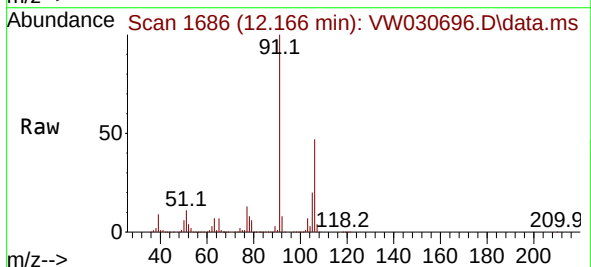
Instrument :  
MSVOA\_W  
ClientSampleId :

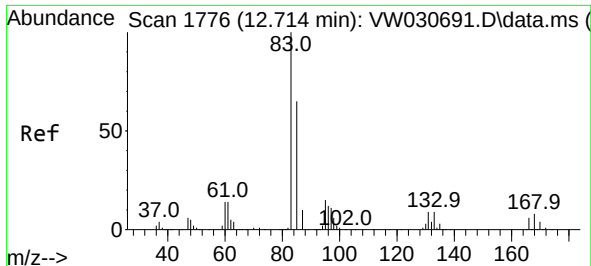
Tgt Ion:106 Resp: 218504  
Ion Ratio Lower Upper  
106 100  
91 225.9 144.5 268.4



#55  
Styrene  
Concen: 1.144 ug/L  
RT: 12.166 min Scan# 1686  
Delta R.T. -0.012 min  
Lab File: VW030696.D  
Acq: 22 Oct 2024 12:04

Tgt Ion:104 Resp: 12629  
Ion Ratio Lower Upper  
104 100  
78 302.7 34.3 63.7#





#57

1,1,2,2-Tetrachloroethane

Concen: 26.032 ug/L

RT: 12.708 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW030696.D

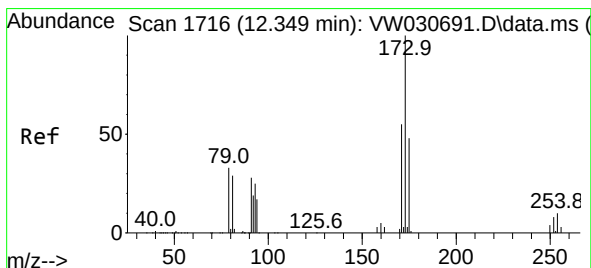
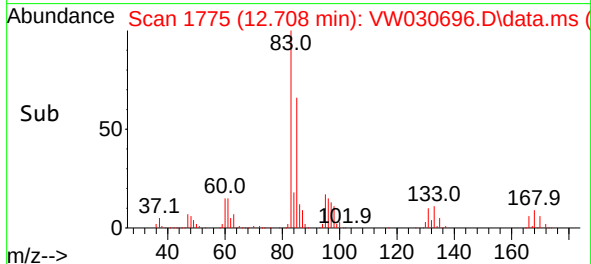
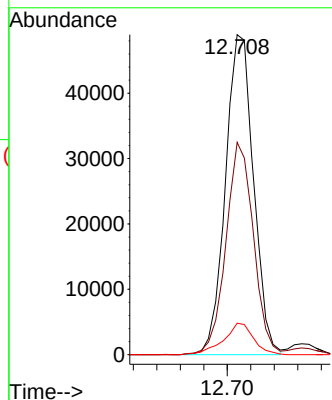
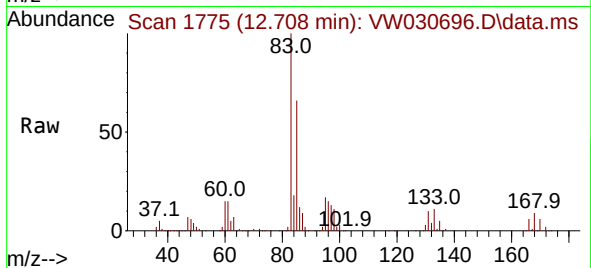
Acq: 22 Oct 2024 12:04

Instrument :

MSVOA\_W

ClientSampleId :

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 81155 |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 85 66.4     | 42.6 79.2   |
| 131 9.8     | 7.4 11.0    |



#59

Bromoform

Concen: 9.540 ug/L

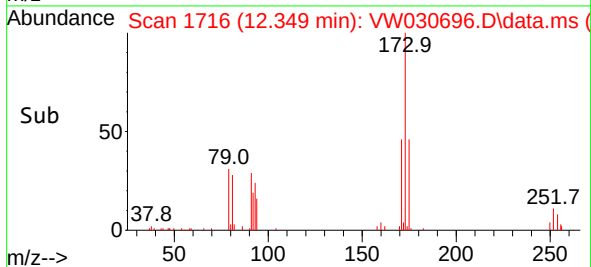
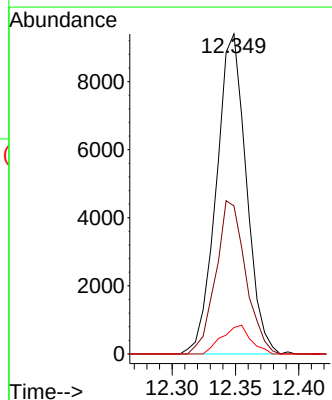
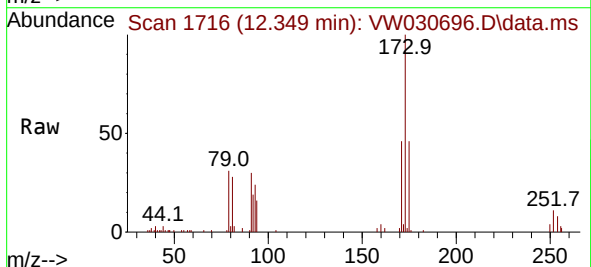
RT: 12.349 min Scan# 1716

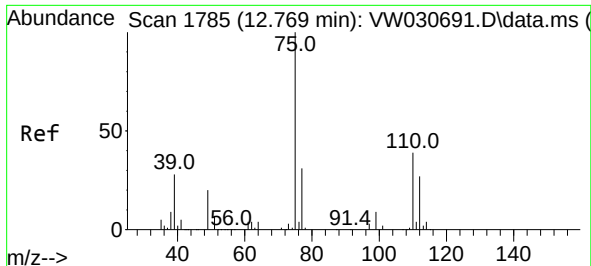
Delta R.T. 0.000 min

Lab File: VW030696.D

Acq: 22 Oct 2024 12:04

|              |             |
|--------------|-------------|
| Tgt Ion: 173 | Resp: 15449 |
| Ion Ratio    | Lower Upper |
| 173 100      |             |
| 175 47.7     | 39.0 58.4   |
| 254 8.6      | 7.7 11.5    |





#61

1,2,3-Trichloropropane

Concen: 39.561 ug/L

RT: 12.763 min Scan# 11

Delta R.T. -0.006 min

Lab File: VW030696.D

Acq: 22 Oct 2024 12:04

Instrument :

MSVOA\_W

ClientSampleId :

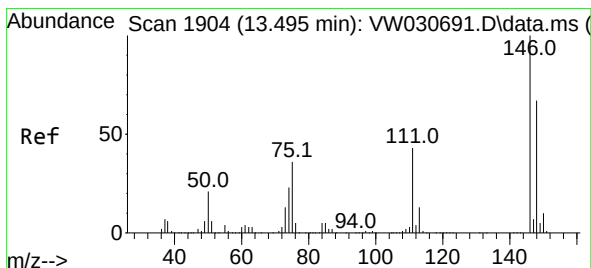
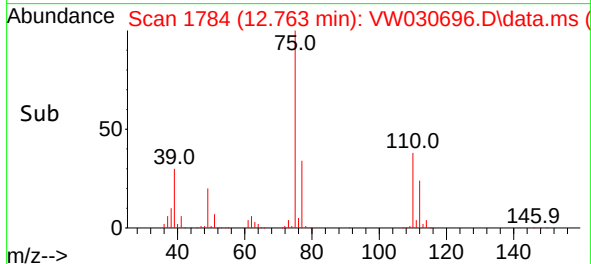
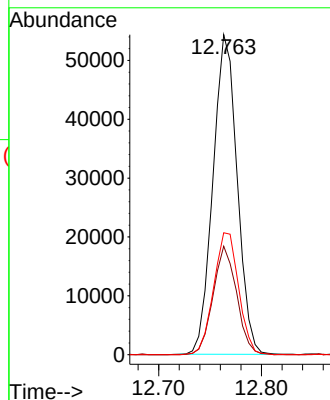
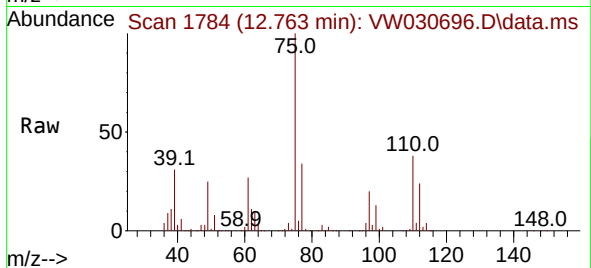
Tgt Ion: 75 Resp: 88729

Ion Ratio Lower Upper

75 100

77 33.0 25.7 38.5

110 39.4 32.3 48.5



#64

1,3-Dichlorobenzene

Concen: 20.155 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW030696.D

Acq: 22 Oct 2024 12:04

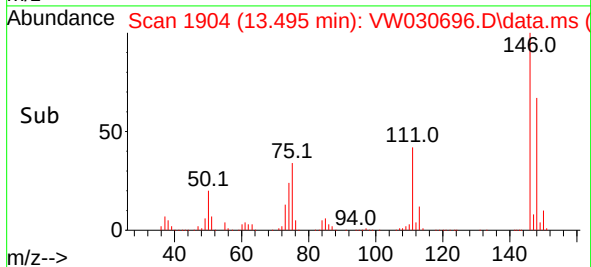
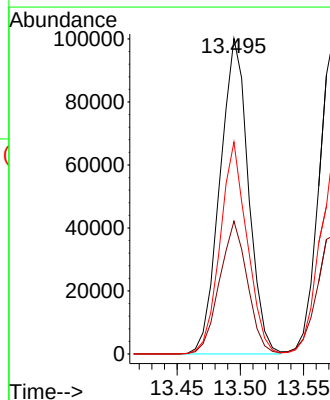
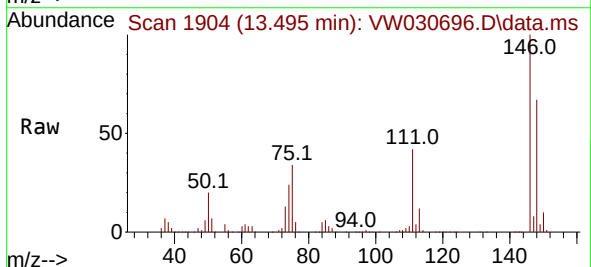
Tgt Ion:146 Resp: 156588

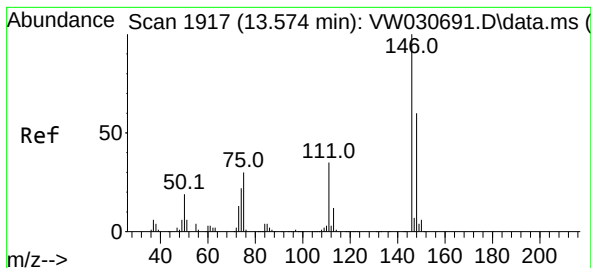
Ion Ratio Lower Upper

146 100

111 42.1 31.2 58.0

148 67.2 45.7 84.9

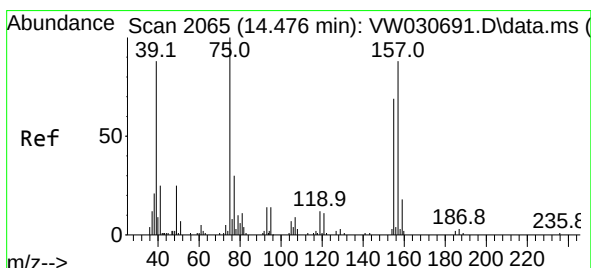
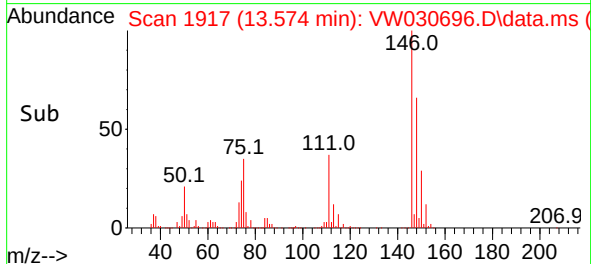
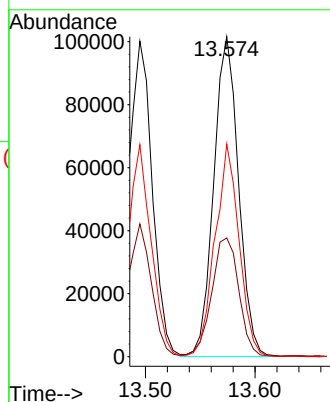
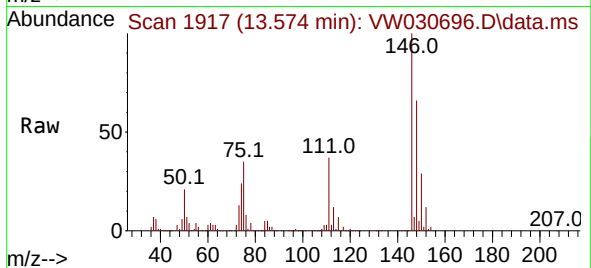




#65  
1,4-Dichlorobenzene  
Concen: 19.904 ug/L  
RT: 13.574 min Scan# 1917  
Delta R.T. 0.000 min  
Lab File: VW030696.D  
Acq: 22 Oct 2024 12:04

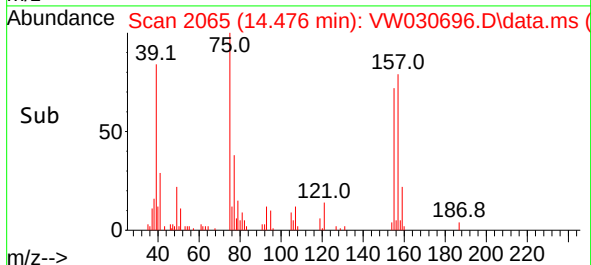
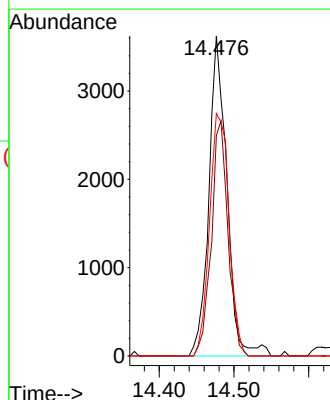
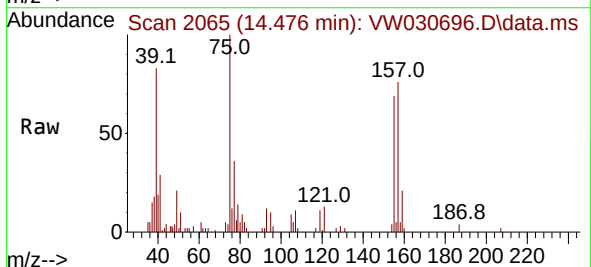
Instrument :  
MSVOA\_W  
ClientSampleId :

Tgt Ion:146 Resp: 159672  
Ion Ratio Lower Upper  
146 100  
111 37.1 26.8 49.8  
148 66.4 41.0 76.2

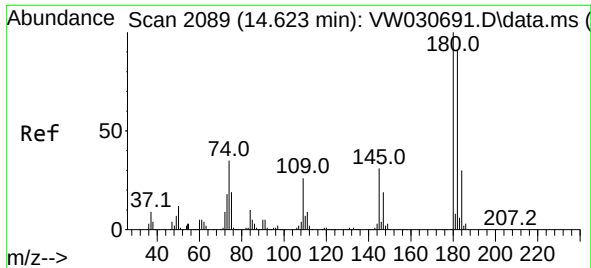


#68  
1,2-Dibromo-3-chloropropane  
Concen: 12.100 ug/L  
RT: 14.476 min Scan# 2065  
Delta R.T. 0.000 min  
Lab File: VW030696.D  
Acq: 22 Oct 2024 12:04

Tgt Ion: 75 Resp: 6051  
Ion Ratio Lower Upper  
75 100  
155 68.8 57.9 86.9  
157 75.7 69.0 103.6



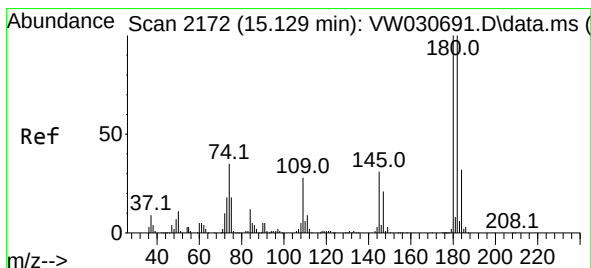
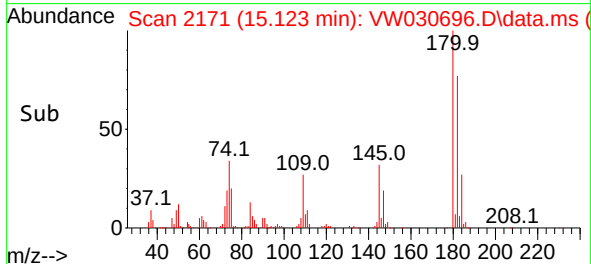
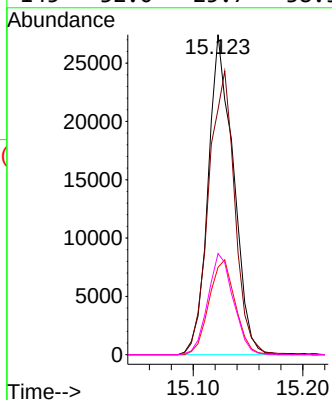
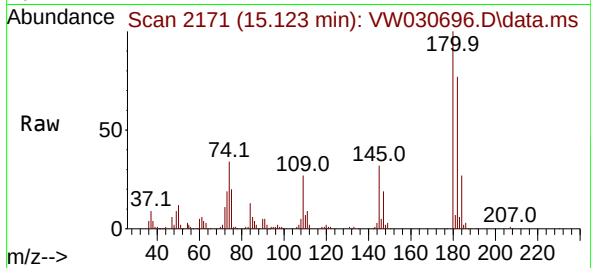




#69  
1,3,5-Trichlorobenzene  
Concen: 8.547 ug/L  
RT: 15.123 min Scan# 2171  
Delta R.T. 0.500 min  
Lab File: VW030696.D  
Acq: 22 Oct 2024 12:04

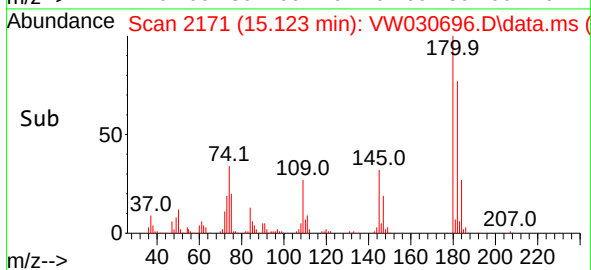
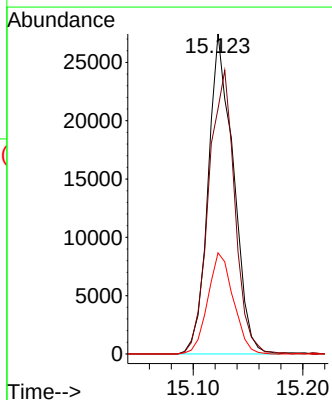
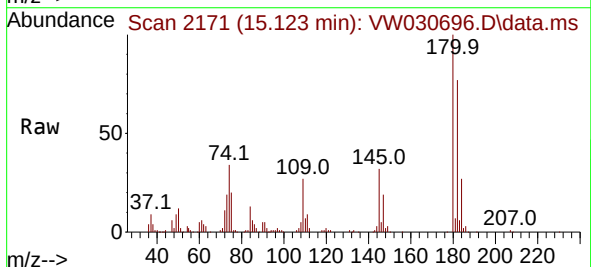
Instrument :  
MSVOA\_W  
ClientSampleId :

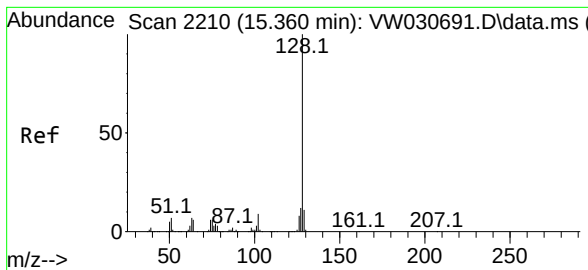
Tgt Ion:180 Resp: 43788  
Ion Ratio Lower Upper  
180 100  
182 91.5 79.9 119.9  
184 30.9 25.2 37.8  
145 32.0 25.7 38.5



#70  
1,2,4-trichlorobenzene  
Concen: 10.617 ug/L  
RT: 15.123 min Scan# 2171  
Delta R.T. -0.006 min  
Lab File: VW030696.D  
Acq: 22 Oct 2024 12:04

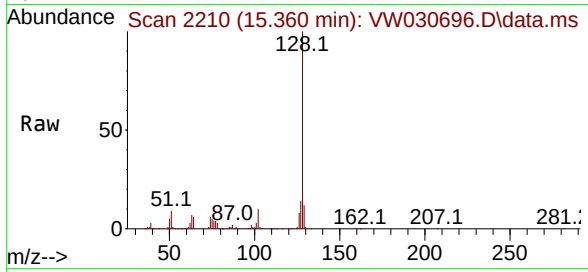
Tgt Ion:180 Resp: 43788  
Ion Ratio Lower Upper  
180 100  
182 91.5 75.2 112.8  
145 32.0 25.4 38.2





#71  
Naphthalene  
Concen: 37.307 ug/L  
RT: 15.360 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VW030696.D  
Acq: 22 Oct 2024 12:04

Instrument :  
MSVOA\_W  
ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 265840 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 13.7  | 10.9  | 16.3   |
| 129      | 11.5  | 8.8   | 13.2   |

