

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW083123\  
 Data File : VW026973.D  
 Acq On : 31 Aug 2023 13:27  
 Operator : SY/MD  
 Sample : 04235-10  
 Misc : 6.00g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 01 00:47:18 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM081023SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Fri Sep 01 00:44:05 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.843  | 114   | 63049    | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.629 | 117   | 47434    | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.555 | 152   | 15345    | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.356  | 65    | 14784    | 14.264   | ug/L   | -0.01    |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 57.040%  |
| 7) Chloroethane-d5            | 2.984  | 69    | 233      | 0.302    | ug/L   | 0.09     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 1.200%#  |
| 11) 1,1-Dichloroethene-d2     | 4.021  | 65    | 5927     | 11.627   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 46.520%  |
| 21) 2-Butanone-d5             | 7.331  | 46    | 134      | 0.450    | ug/L   | 0.26     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 0.900%#  |
| 24) Chloroform-d              | 7.648  | 84    | 38241    | 18.071   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 72.280%  |
| 26) 1,2-Dichloroethane-d4     | 8.044  | 65    | 128      | 0.110    | ug/L   | -0.26    |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 0.440%#  |
| 32) Benzene-d6                | 8.276  | 84    | 68112    | 20.835   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 83.320%  |
| 36) 1,2-Dichloropropane-d6    | 9.276  | 67    | 24835    | 24.389   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 97.560%  |
| 41) Toluene-d8                | 10.324 | 98    | 70719    | 25.201   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 100.800% |
| 43) trans-1,3-Dichloroprop... | 10.580 | 79    | 6269     | 14.911   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 59.640%  |
| 47) 2-Hexanone-d5             | 10.928 | 63    | 5434     | 50.785   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 101.580% |
| 56) 1,1,2,2-Tetrachloroeth... | 12.690 | 84    | 19781    | 24.598   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 98.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.854 | 152   | 9972     | 18.156   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 72.640%# |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 13) Acetone                   | 4.130  | 43    | 14948    | 50.466   | ug/L   | 93       |
| 14) Carbon disulfide          | 4.392  | 76    | 28099    | 8.381    | ug/L # | 94       |
| 16) Methylene chloride        | 4.923  | 84    | 6333     | 5.193    | ug/L   | 88       |
| 22) 2-Butanone                | 7.178  | 43    | 4147     | 9.500    | ug/L   | 84       |
| 29) Cyclohexane               | 7.965  | 56    | 3524     | 2.402    | ug/L # | 20       |
| 33) Benzene                   | 8.331  | 78    | 24514    | 7.097    | ug/L   | 100      |
| 34) Trichloroethene           | 9.099  | 95    | 561      | 0.638    | ug/L # | 69       |
| 35) Methylcyclohexane         | 9.337  | 83    | 62327    | 41.412   | ug/L   | 96       |
| 42) Toluene                   | 10.385 | 91    | 8622     | 2.467    | ug/L   | 78       |
| 45) 1,1,2-Trichloroethane     | 10.757 | 97    | 39823    | 61.542   | ug/L # | 21       |
| 48) 2-Hexanone                | 10.934 | 43    | 97760    | 233.441  | ug/L # | 24       |
| 50) 1,2-Dibromoethane         | 11.227 | 107   | 443      | 0.730    | ug/L # | 1        |
| 52) Ethylbenzene              | 11.733 | 91    | 26739    | 6.824    | ug/L   | 98       |
| 53) m,p-Xylene                | 11.836 | 106   | 96078    | 66.184   | ug/L   | 86       |
| 54) o-Xylene                  | 12.165 | 106   | 29952    | 22.107   | ug/L   | 94       |
| 55) Styrene                   | 12.165 | 104   | 2192     | 0.930    | ug/L # | 1        |
| 57) 1,1,2,2-Tetrachloroethane | 12.738 | 83    | 1382     | 1.686    | ug/L # | 69       |
| 60) Isopropylbenzene          | 12.464 | 105   | 128625   | 56.379   | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 12.940 | 105   | 15183    | 8.420    | ug/L   | 99       |

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Sample : 04235-10  
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ALS Vial : 1 Sample Multiplier: 1

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MSVOA\_W  
ClientSampleId :

Quant Time: Sep 01 00:47:18 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM081023SMA.M  
Quant Title : SFAM01.0  
QLast Update : Fri Sep 01 00:44:05 2023  
Response via : Initial Calibration

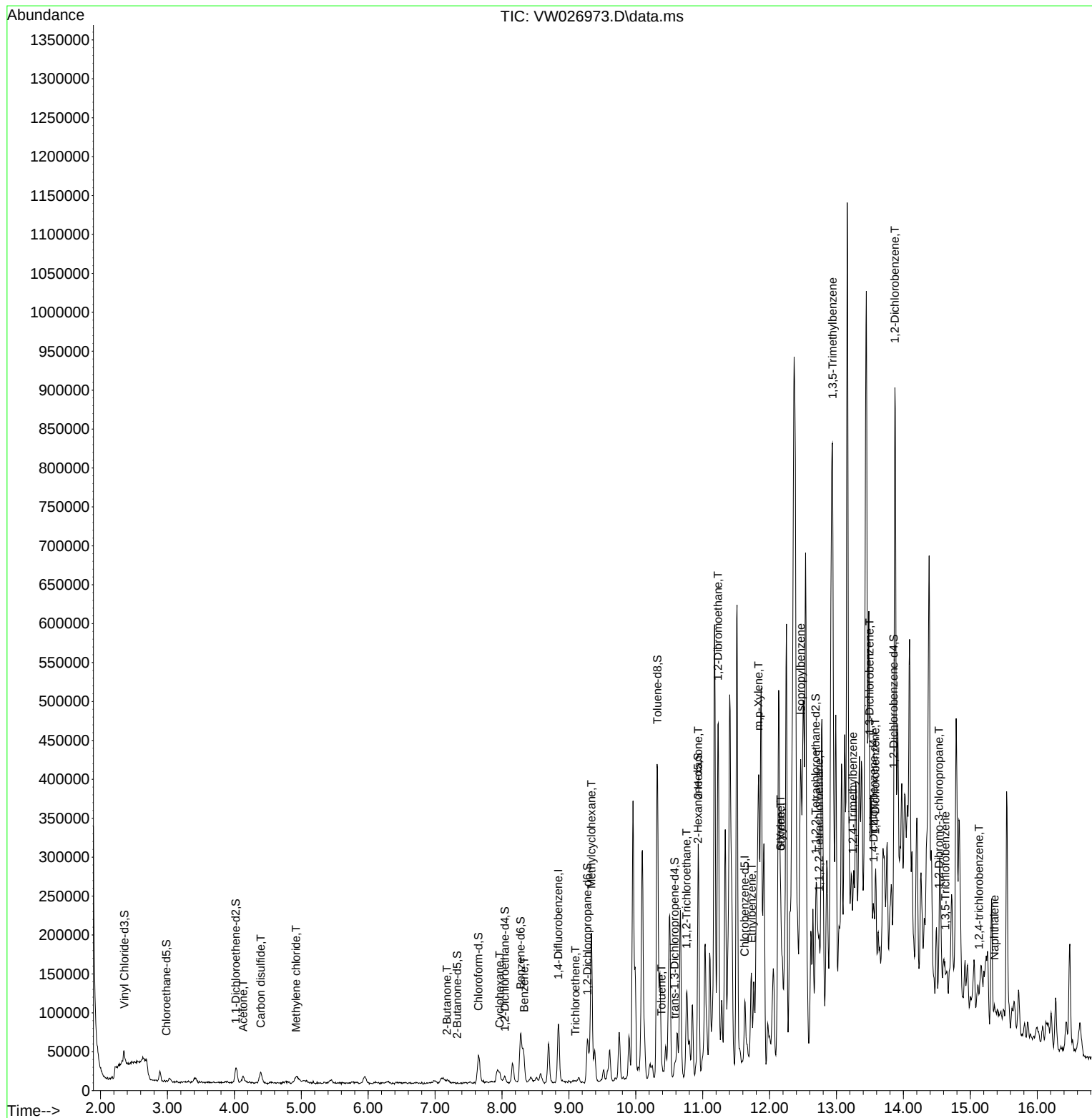
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 63) 1,2,4-Trimethylbenzene    | 13.244 | 105  | 35017    | 19.816 | ug/L   | 95       |
| 64) 1,3-Dichlorobenzene       | 13.494 | 146  | 748      | 0.754  | ug/L # | 1        |
| 65) 1,4-Dichlorobenzene       | 13.580 | 146  | 893      | 0.862  | ug/L # | 1        |
| 67) 1,2-Dichlorobenzene       | 13.872 | 146  | 2116     | 2.345  | ug/L # | 1        |
| 68) 1,2-Dibromo-3-chloropr... | 14.531 | 75   | 1568     | 17.474 | ug/L # | 7        |
| 69) 1,3,5-Trichlorobenzene    | 14.628 | 180  | 530      | 0.791  | ug/L # | 32       |
| 70) 1,2,4-trichlorobenzene    | 15.128 | 180  | 839      | 1.476  | ug/L # | 84       |
| 71) Naphthalene               | 15.360 | 128  | 33402    | 30.810 | ug/L   | 98       |

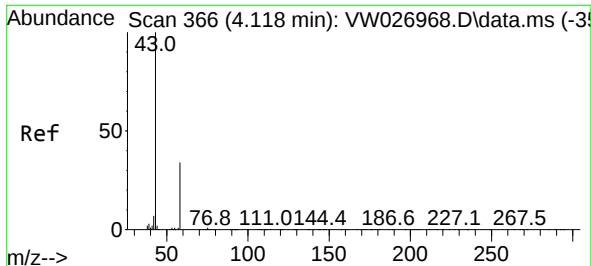
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SFAM01.0  
QLast Update : Fri Sep 01 00:44:05 2023  
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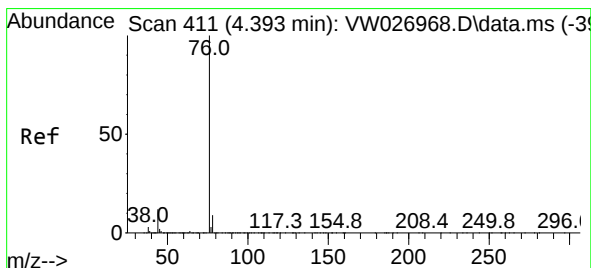
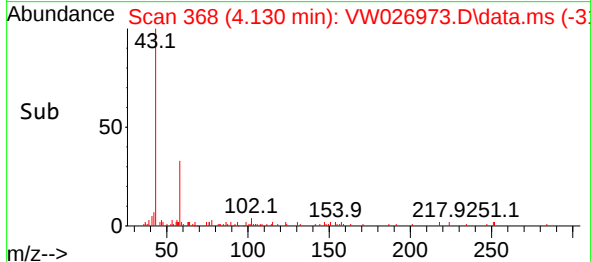
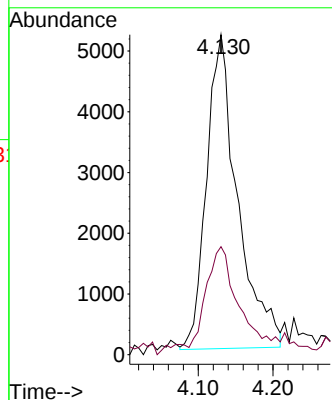
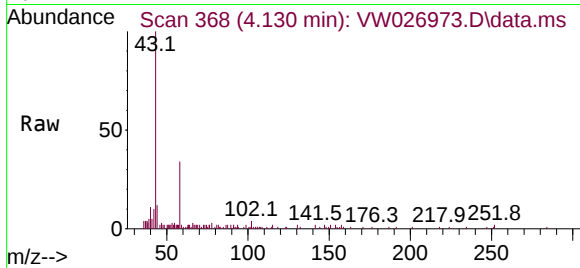




#13  
Acetone  
Concen: 50.466 ug/L  
RT: 4.130 min Scan# 368  
Delta R.T. 0.012 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

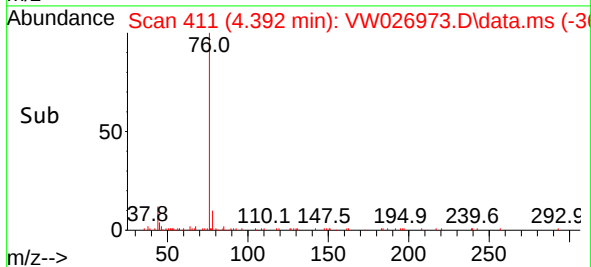
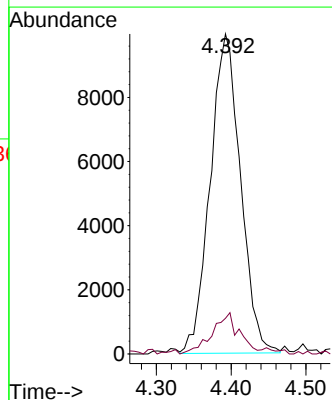
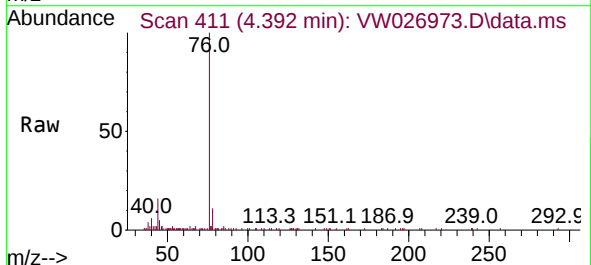
Instrument :  
MSVOA\_W  
ClientSampleId :

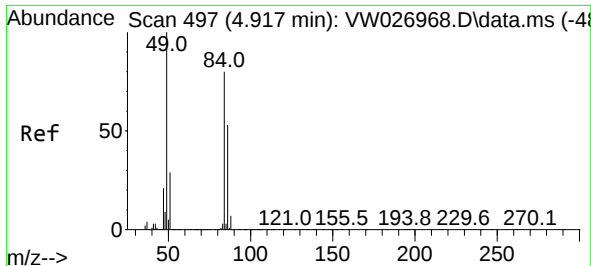
Tgt Ion: 43 Resp: 14948  
Ion Ratio Lower Upper  
43 100  
58 32.6 0.0 57.4



#14  
Carbon disulfide  
Concen: 8.381 ug/L  
RT: 4.392 min Scan# 411  
Delta R.T. -0.000 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

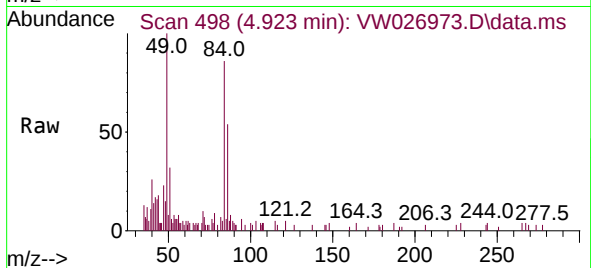
Tgt Ion: 76 Resp: 28099  
Ion Ratio Lower Upper  
76 100  
78 11.2 7.1 10.7#





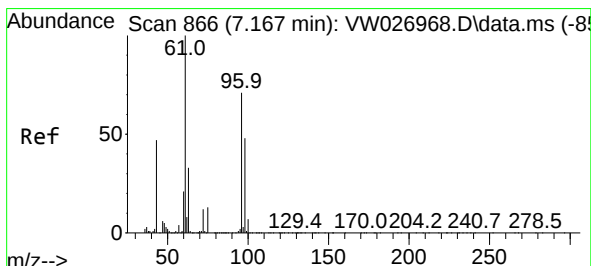
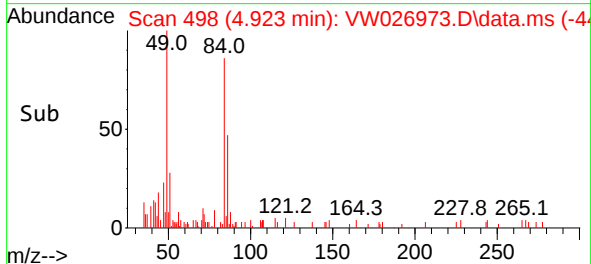
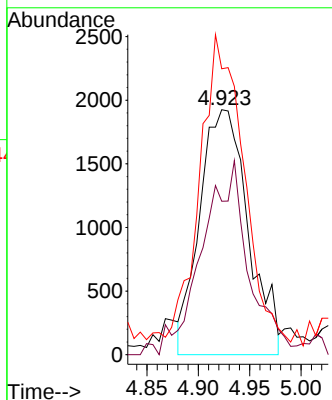
#16  
Methylene chloride  
Concen: 5.193 ug/L  
RT: 4.923 min Scan# 497  
Delta R.T. 0.006 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

Instrument :  
MSVOA\_W  
ClientSampleId :



Tgt Ion: 84 Resp: 6333

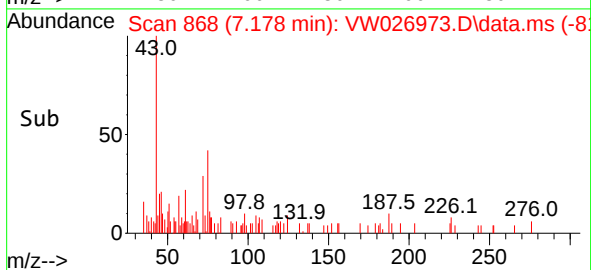
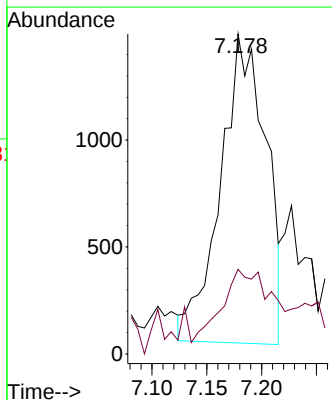
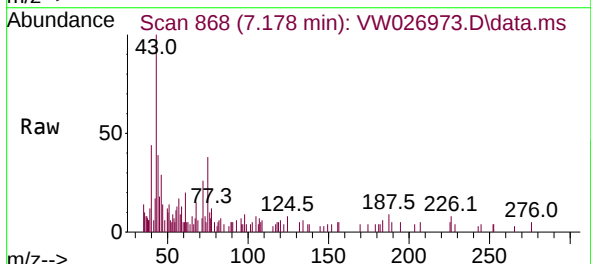
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 86  | 62.6  | 43.5  | 80.9  |
| 49  | 116.7 | 96.0  | 178.2 |

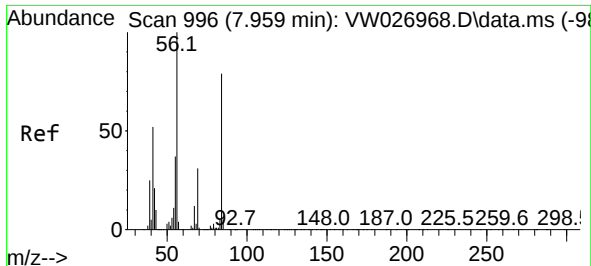


#22  
2-Butanone  
Concen: 9.500 ug/L  
RT: 7.178 min Scan# 868  
Delta R.T. 0.012 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

Tgt Ion: 43 Resp: 4147

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 15.5  | 11.8  | 35.4  |

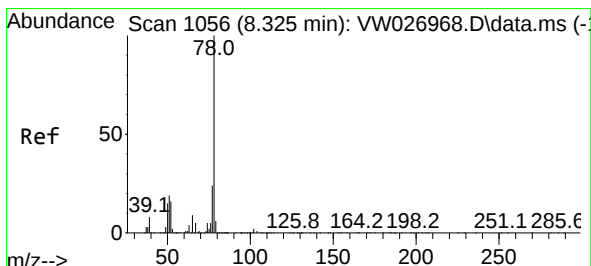
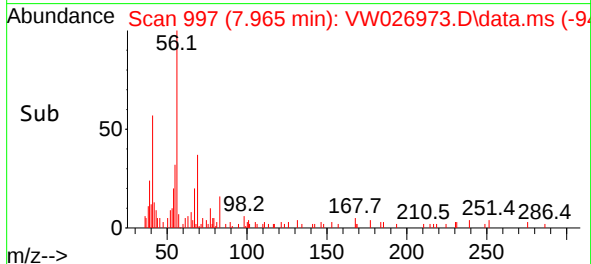
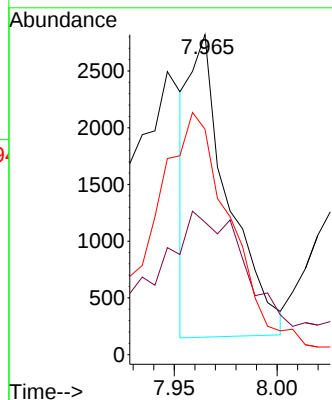
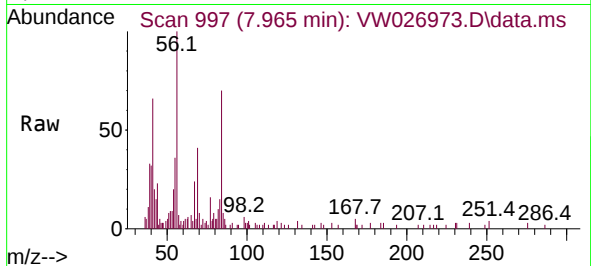




#29  
Cyclohexane  
Concen: 2.402 ug/L  
RT: 7.965 min Scan# 996  
Delta R.T. 0.006 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

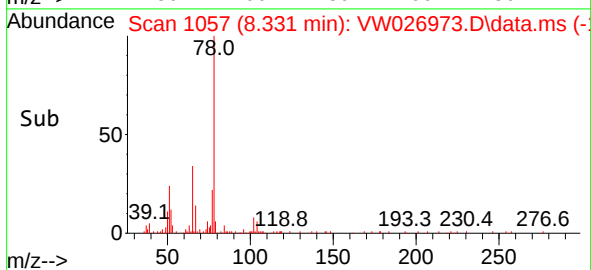
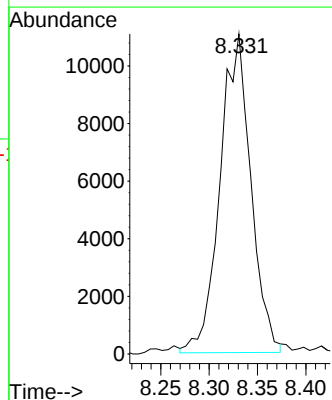
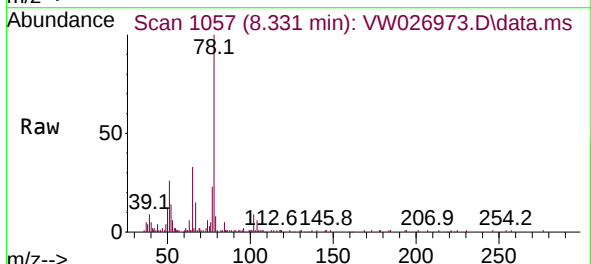
Instrument :  
MSVOA\_W  
ClientSampleId :

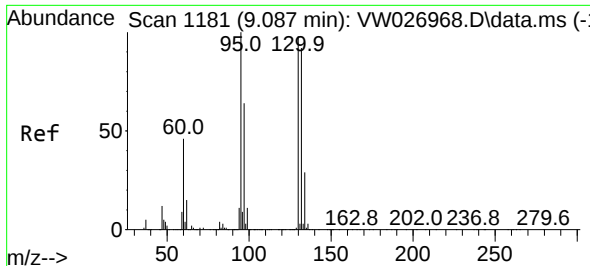
Tgt Ion: 56 Resp: 3524  
Ion Ratio Lower Upper  
56 100  
69 39.0 23.2 34.8#  
84 168.1 62.7 94.1#



#33  
Benzene  
Concen: 7.097 ug/L  
RT: 8.331 min Scan# 1057  
Delta R.T. 0.006 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

Tgt Ion: 78 Resp: 24514

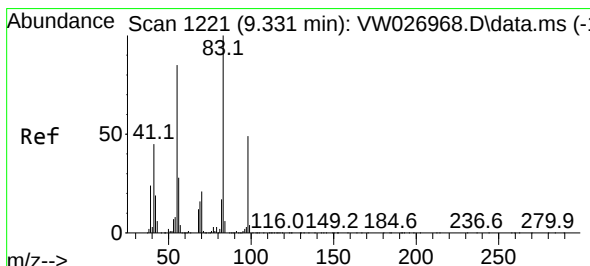
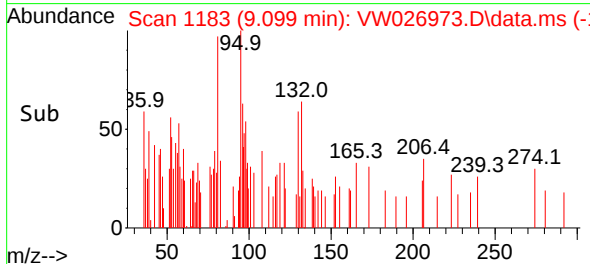
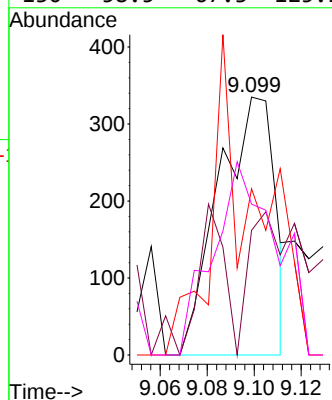
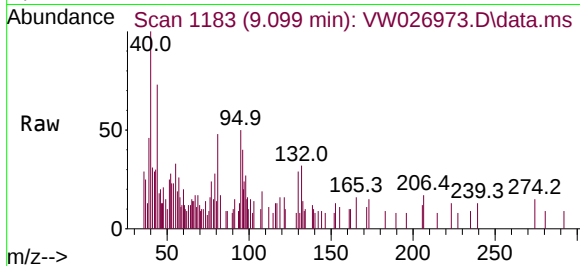




#34  
Trichloroethene  
Concen: 0.638 ug/L  
RT: 9.099 min Scan# 1183  
Delta R.T. 0.012 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

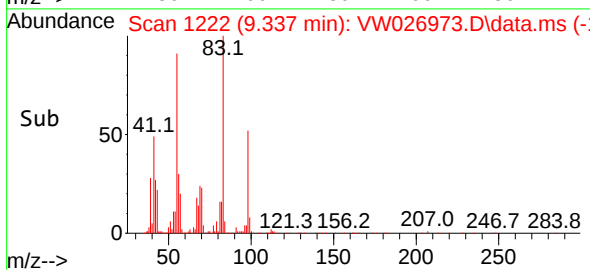
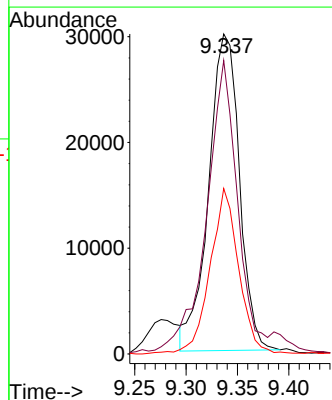
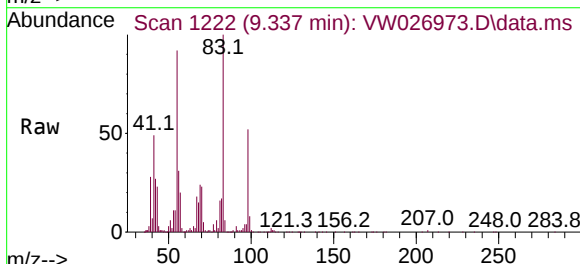
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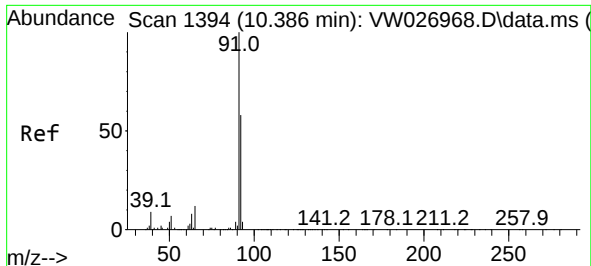
Tgt Ion: 95 Resp: 561  
Ion Ratio Lower Upper  
95 100  
97 48.4 44.6 82.8  
132 64.5 66.4 123.2#  
130 58.5 67.3 125.1#



#35  
Methylcyclohexane  
Concen: 41.412 ug/L  
RT: 9.337 min Scan# 1222  
Delta R.T. 0.006 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

Tgt Ion: 83 Resp: 62327  
Ion Ratio Lower Upper  
83 100  
55 91.4 69.3 103.9  
98 48.2 37.4 56.0

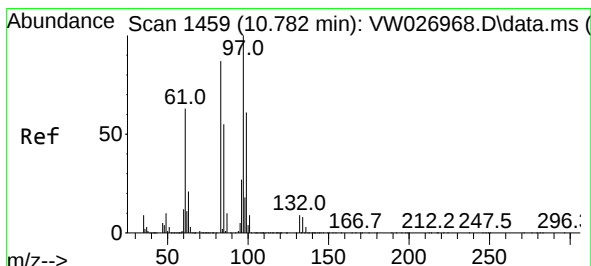
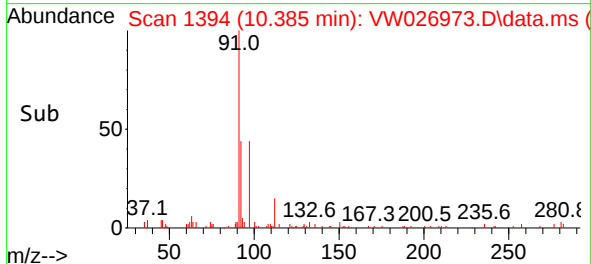
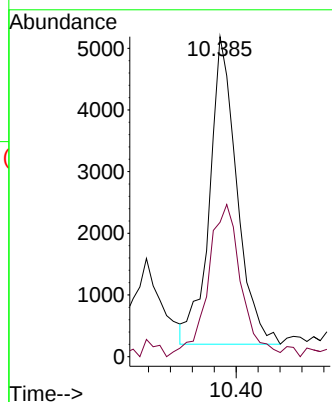
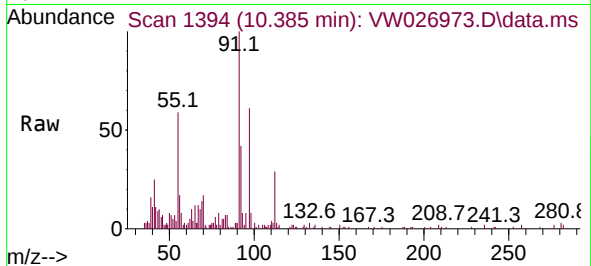




#42  
Toluene  
Concen: 2.467 ug/L  
RT: 10.385 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

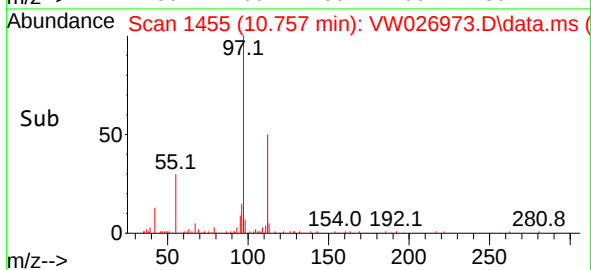
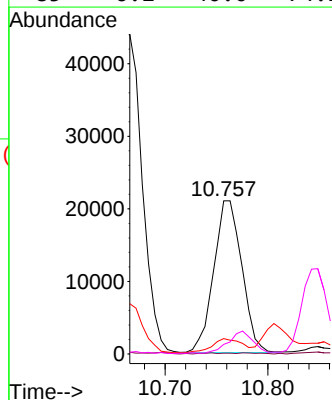
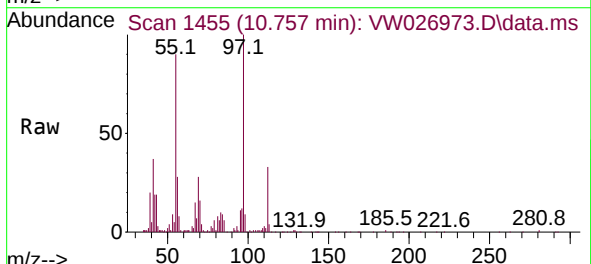
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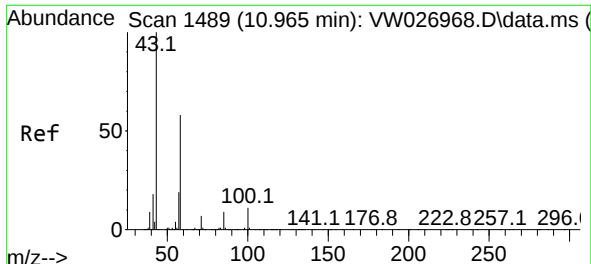
Tgt Ion: 91 Resp: 8622  
Ion Ratio Lower Upper  
91 100  
92 42.0 40.8 75.8



#45  
1,1,2-Trichloroethane  
Concen: 61.542 ug/L  
RT: 10.757 min Scan# 1455  
Delta R.T. -0.025 min  
Lab File: VW026973.D  
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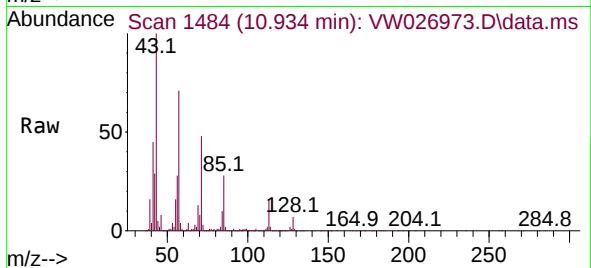
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99 0.5 44.2 82.0#  
83 10.0 61.9 114.9#  
85 6.2 40.0 74.2#



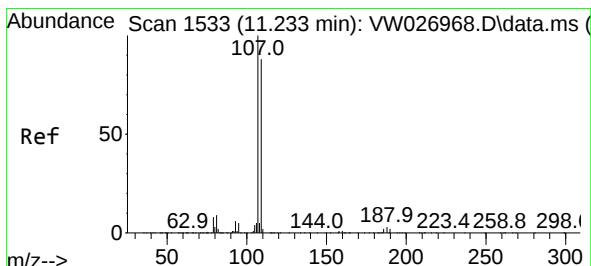
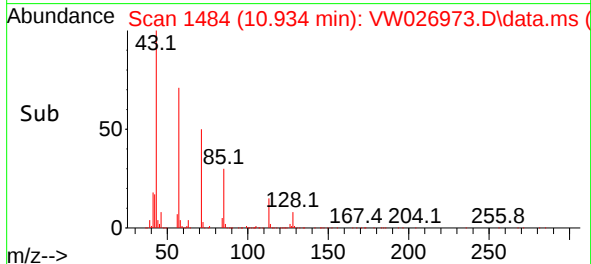
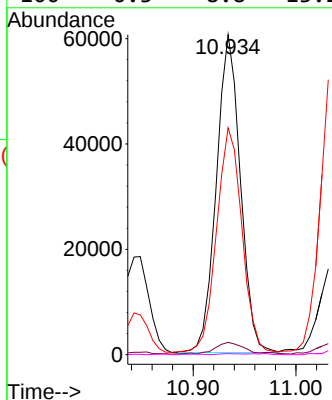


#48  
2-Hexanone  
Concen: 233.441 ug/L  
RT: 10.934 min Scan# 1489  
Delta R.T. -0.031 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

Instrument :  
MSVOA\_W  
ClientSampleId :

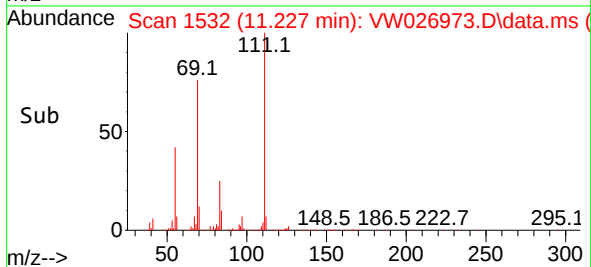
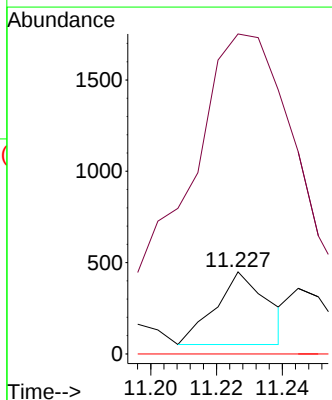
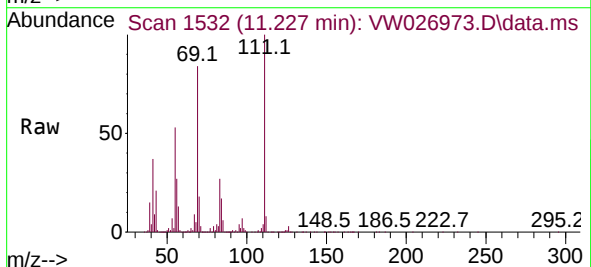


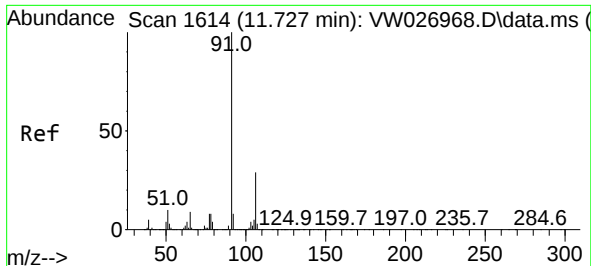
Tgt Ion: 43 Resp: 97760  
Ion Ratio Lower Upper  
43 100  
58 4.1 41.1 61.7#  
57 74.3 14.3 21.5#  
100 0.3 8.8 13.2#



#50  
1,2-Dibromoethane  
Concen: 0.730 ug/L  
RT: 11.227 min Scan# 1532  
Delta R.T. -0.007 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

Tgt Ion: 107 Resp: 443  
Ion Ratio Lower Upper  
107 100  
109 390.2 68.8 127.8#  
188 0.0 2.7 4.1#





#52

Ethylbenzene

Concen: 6.824 ug/L

RT: 11.733 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW026973.D

Acq: 31 Aug 2023 13:27

Instrument :

MSVOA\_W

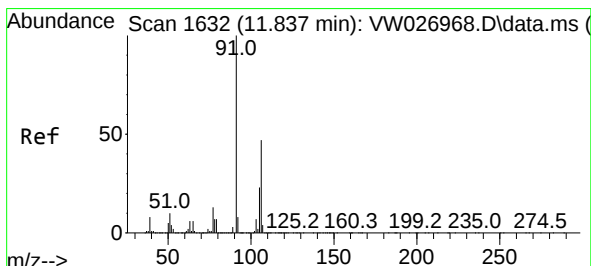
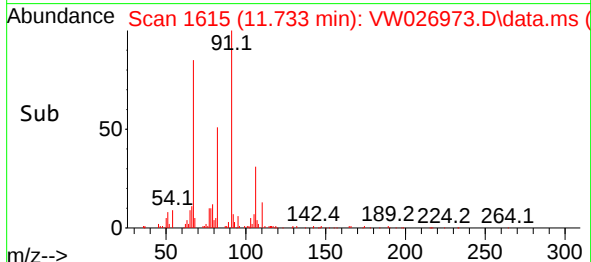
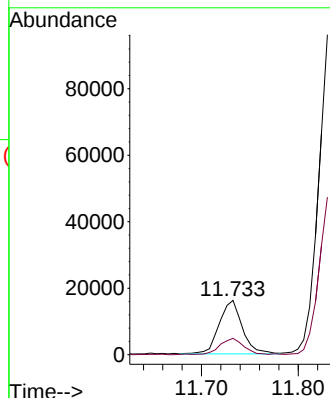
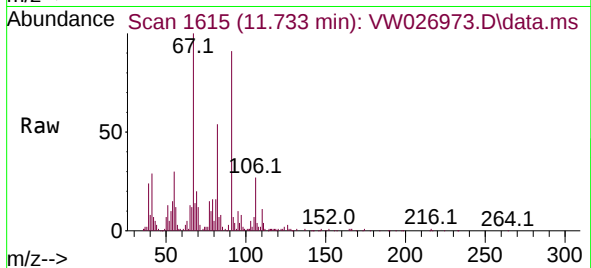
ClientSampleId :

Tgt Ion: 91 Resp: 26739

Ion Ratio Lower Upper

91 100

106 30.2 20.2 37.6



#53

m,p-Xylene

Concen: 66.184 ug/L

RT: 11.836 min Scan# 1632

Delta R.T. -0.000 min

Lab File: VW026973.D

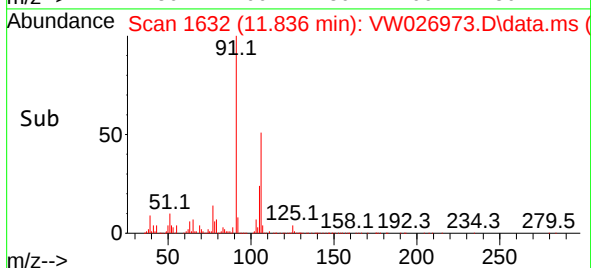
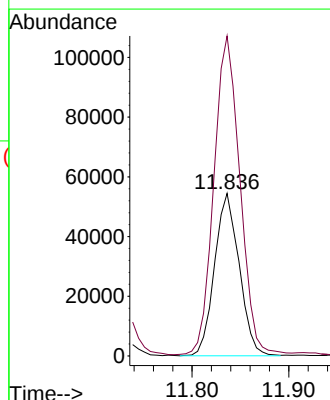
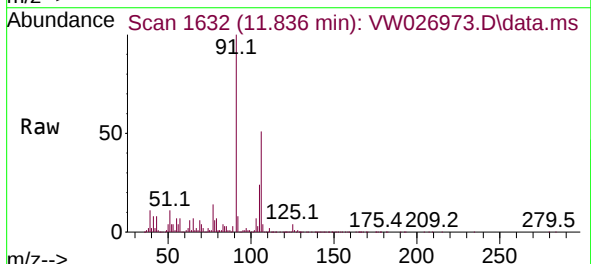
Acq: 31 Aug 2023 13:27

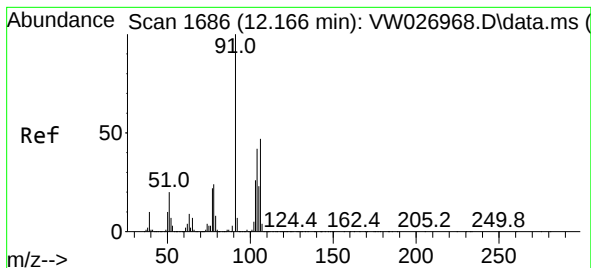
Tgt Ion:106 Resp: 96078

Ion Ratio Lower Upper

106 100

91 196.9 152.9 284.1

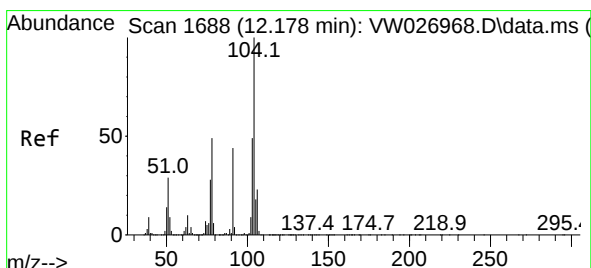
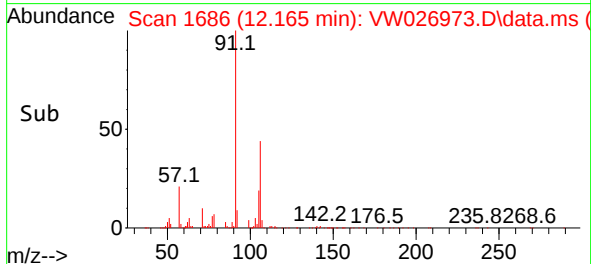
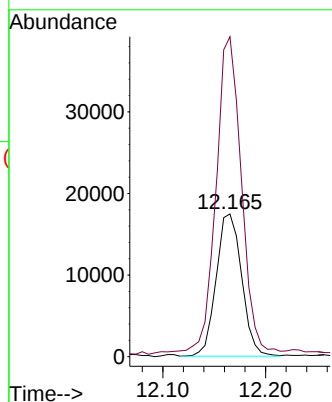
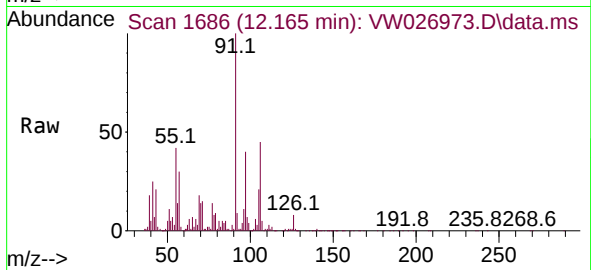




#54  
o-Xylene  
Concen: 22.107 ug/L  
RT: 12.165 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

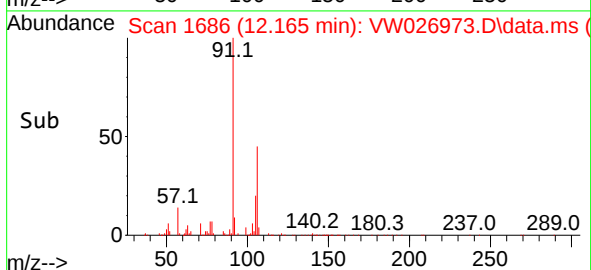
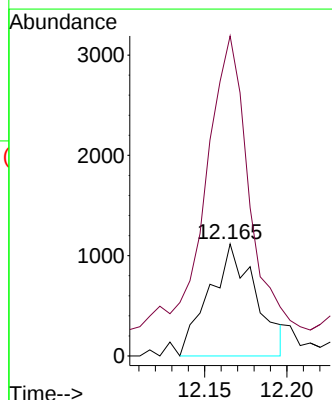
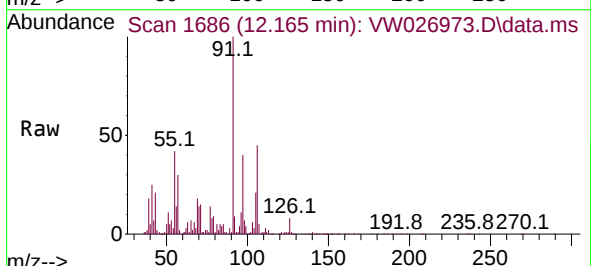
Instrument :  
MSVOA\_W  
ClientSampleId :

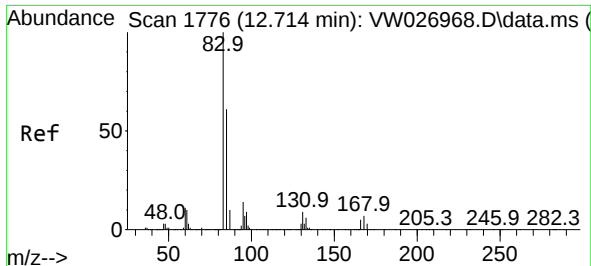
Tgt Ion:106 Resp: 29952  
Ion Ratio Lower Upper  
106 100  
91 224.1 149.9 278.3



#55  
Styrene  
Concen: 0.930 ug/L  
RT: 12.165 min Scan# 1686  
Delta R.T. -0.013 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

Tgt Ion:104 Resp: 2192  
Ion Ratio Lower Upper  
104 100  
78 285.9 33.0 61.2#





#57

1,1,2,2-Tetrachloroethane

Concen: 1.686 ug/L

RT: 12.738 min Scan# 1

Delta R.T. 0.024 min

Lab File: VW026973.D

Acq: 31 Aug 2023 13:27

Instrument :

MSVOA\_W

ClientSampleId :

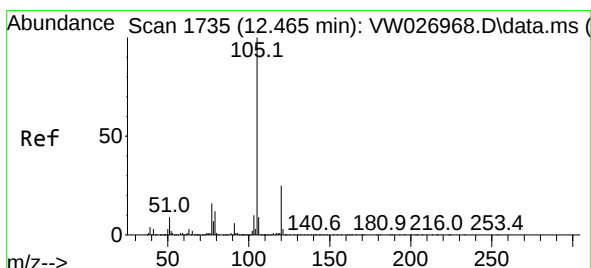
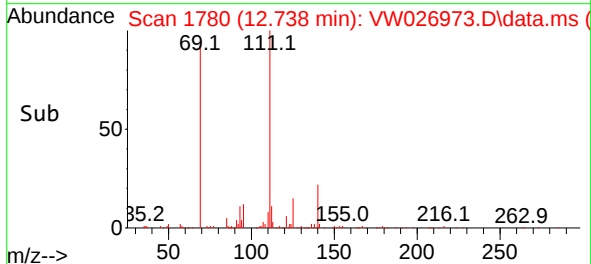
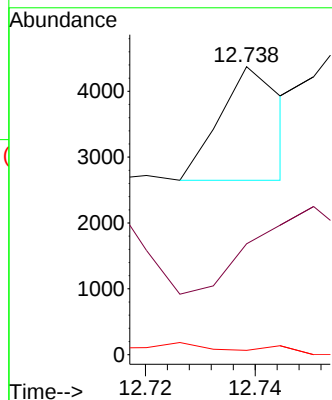
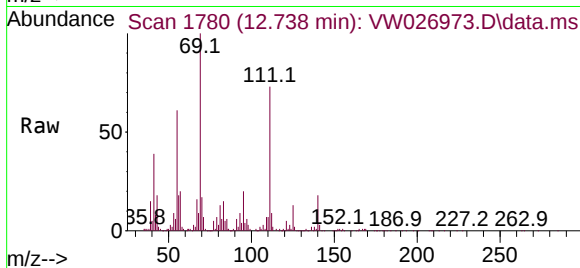
Tgt Ion: 83 Resp: 1382

Ion Ratio Lower Upper

83 100

85 38.5 44.9 83.3#

131 1.5 7.4 11.0#



#60

Isopropylbenzene

Concen: 56.379 ug/L

RT: 12.464 min Scan# 1735

Delta R.T. -0.000 min

Lab File: VW026973.D

Acq: 31 Aug 2023 13:27

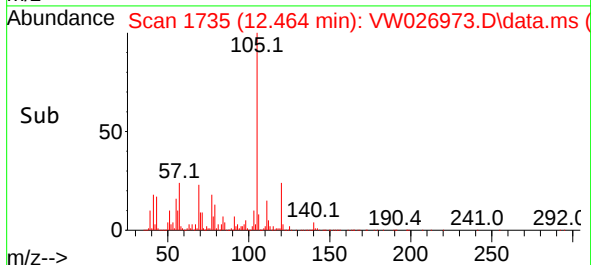
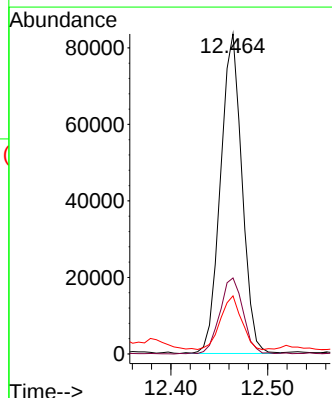
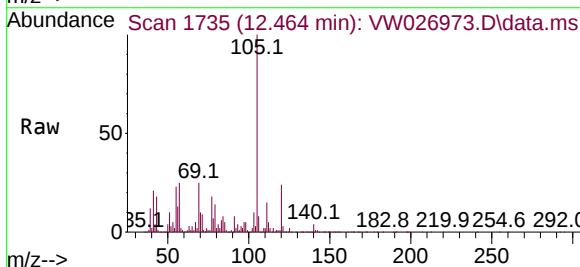
Tgt Ion:105 Resp: 128625

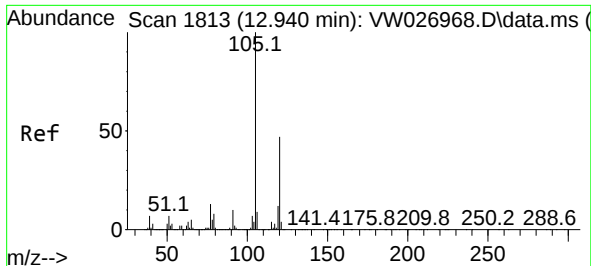
Ion Ratio Lower Upper

105 100

120 25.2 21.0 31.6

77 16.5 13.4 20.2

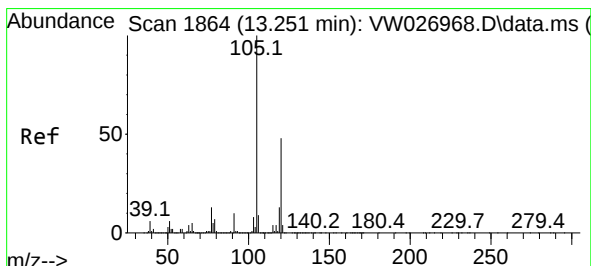
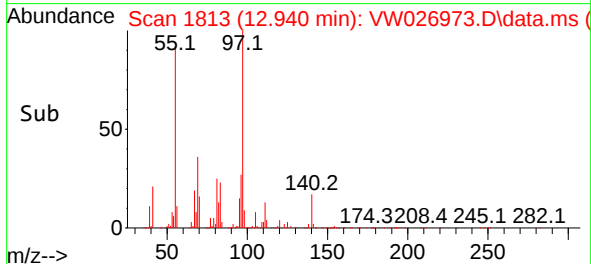
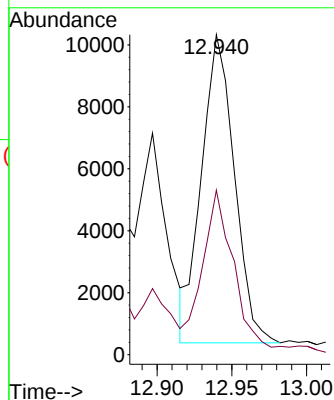
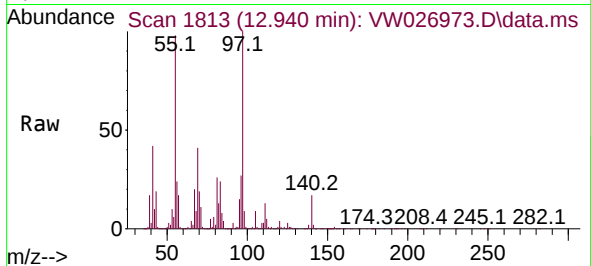




#62  
1,3,5-Trimethylbenzene  
Concen: 8.420 ug/L  
RT: 12.940 min Scan# 1813  
Delta R.T. -0.000 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

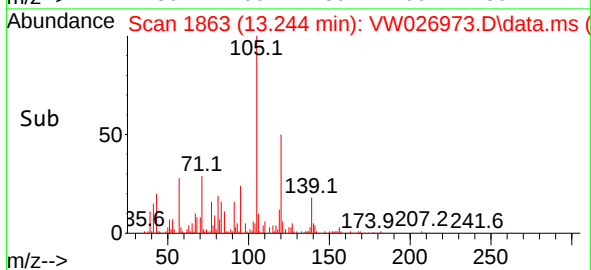
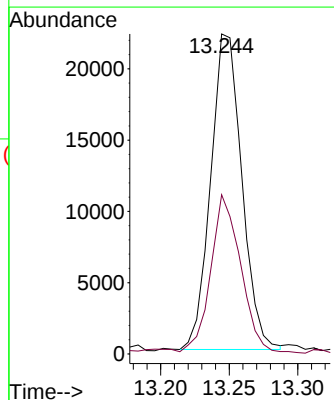
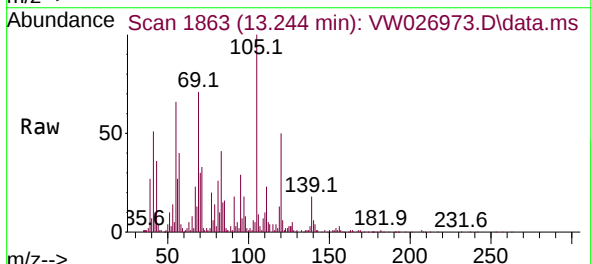
Instrument :  
MSVOA\_W  
ClientSampleId :

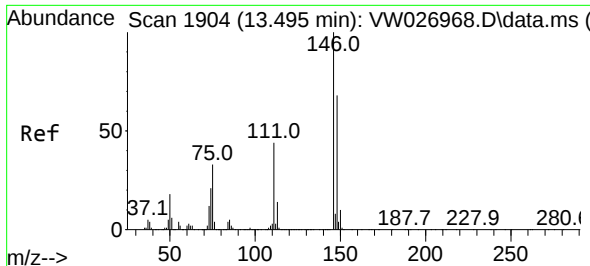
Tgt Ion:105 Resp: 15183  
Ion Ratio Lower Upper  
105 100  
120 46.3 37.4 56.2



#63  
1,2,4-Trimethylbenzene  
Concen: 19.816 ug/L  
RT: 13.244 min Scan# 1863  
Delta R.T. -0.007 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

Tgt Ion:105 Resp: 35017  
Ion Ratio Lower Upper  
105 100  
120 48.4 36.2 54.4

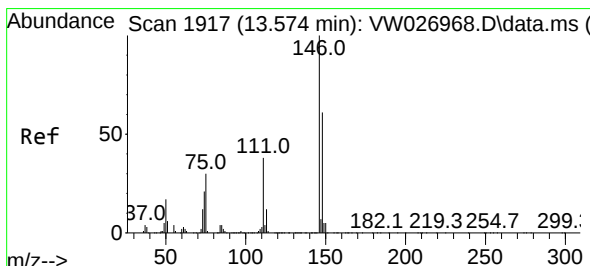
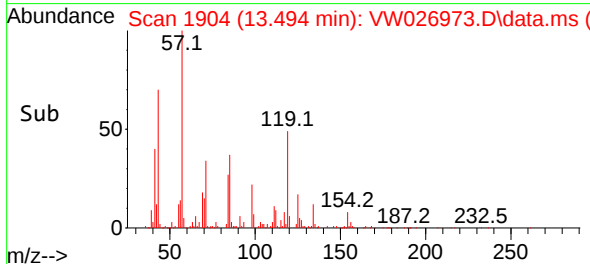
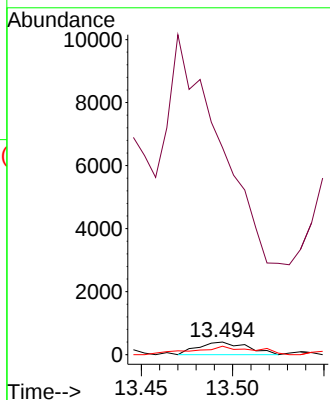
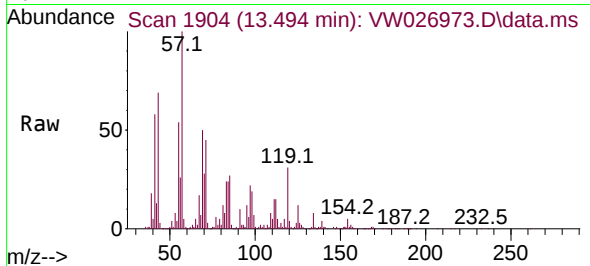




#64  
1,3-Dichlorobenzene  
Concen: 0.754 ug/L  
RT: 13.494 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

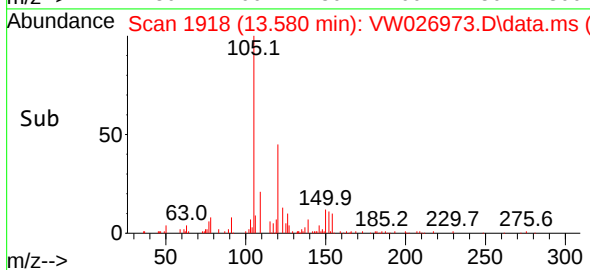
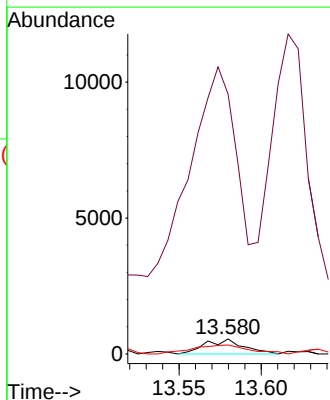
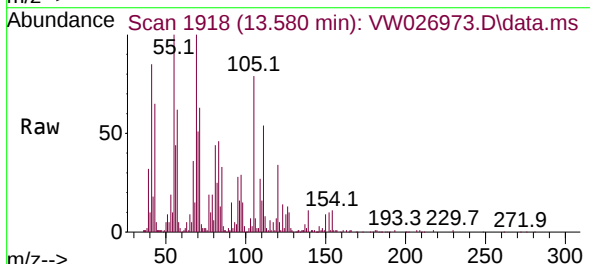
Instrument :  
MSVOA\_W  
ClientSampleId :

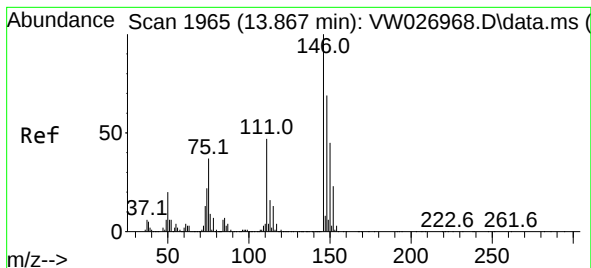
Tgt Ion:146 Resp: 748  
Ion Ratio Lower Upper  
146 100  
111 1646.6 29.1 54.1#  
148 67.9 38.8 72.0



#65  
1,4-Dichlorobenzene  
Concen: 0.862 ug/L  
RT: 13.580 min Scan# 1918  
Delta R.T. 0.006 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

Tgt Ion:146 Resp: 893  
Ion Ratio Lower Upper  
146 100  
111 1718.0 28.3 52.7#  
148 59.5 44.2 82.2





#67

1,2-Dichlorobenzene

Concen: 2.345 ug/L

RT: 13.872 min Scan# 1965

Delta R.T. 0.006 min

Lab File: VW026973.D

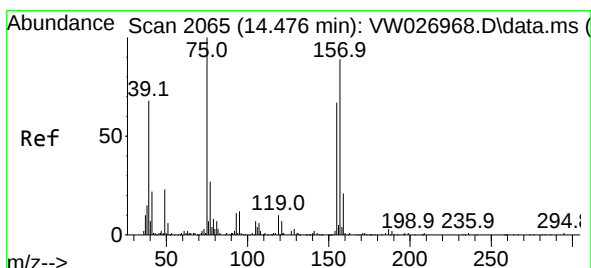
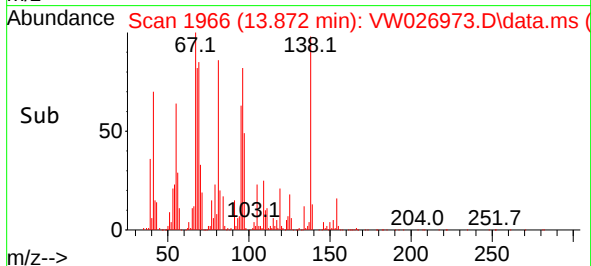
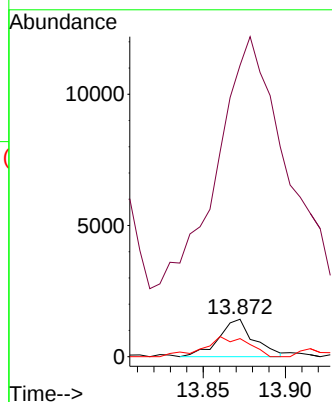
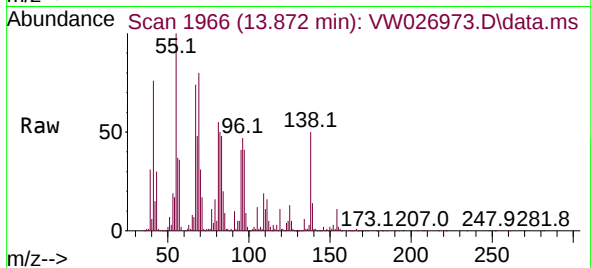
Acq: 31 Aug 2023 13:27

Instrument :

MSVOA\_W

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 2116  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 776.8 | 34.6  | 52.0# |
| 148      | 48.3  | 53.4  | 80.0# |



#68

1,2-Dibromo-3-chloropropane

Concen: 17.474 ug/L

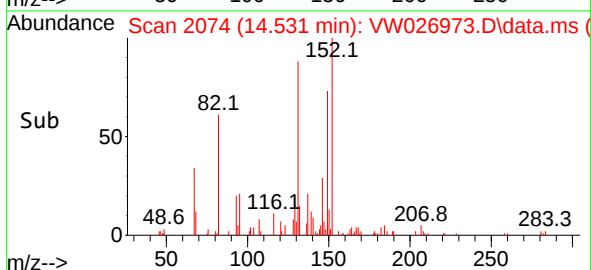
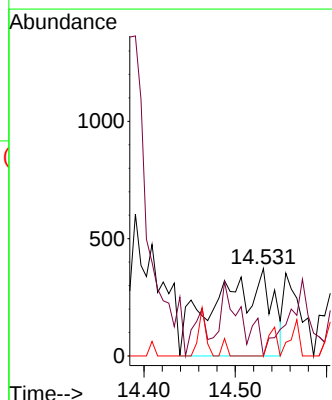
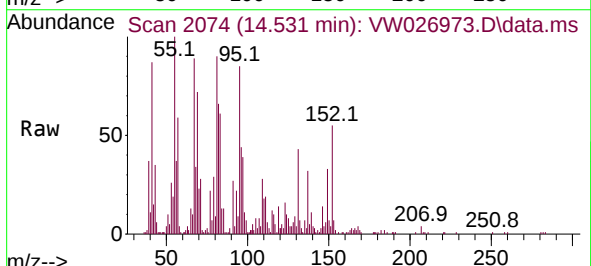
RT: 14.531 min Scan# 2074

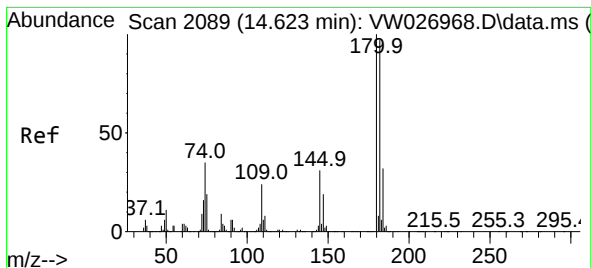
Delta R.T. 0.054 min

Lab File: VW026973.D

Acq: 31 Aug 2023 13:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 1568   |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 155      | 0.0   | 55.0  | 82.6#  |
| 157      | 0.0   | 77.8  | 116.6# |





#69

1,3,5-Trichlorobenzene

Concen: 0.791 ug/L

RT: 14.628 min Scan# 2089

Delta R.T. 0.006 min

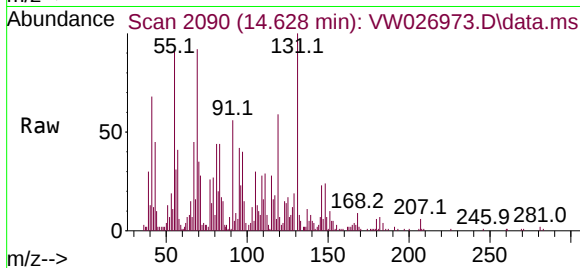
Lab File: VW026973.D

Acq: 31 Aug 2023 13:27

Instrument :

MSVOA\_W

ClientSampleId :



Tgt Ion:180 Resp: 530

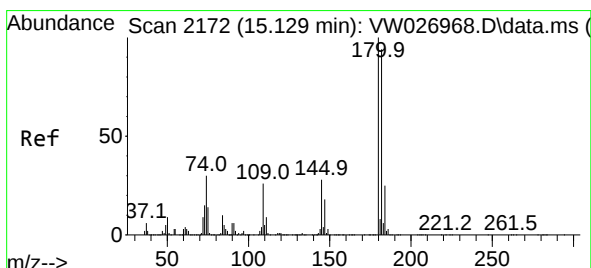
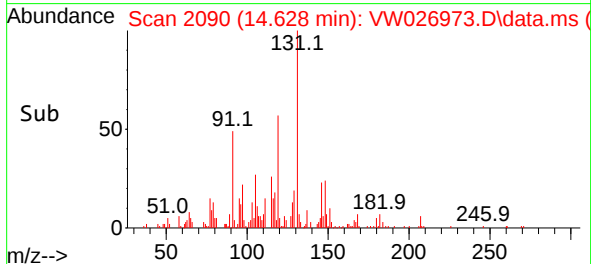
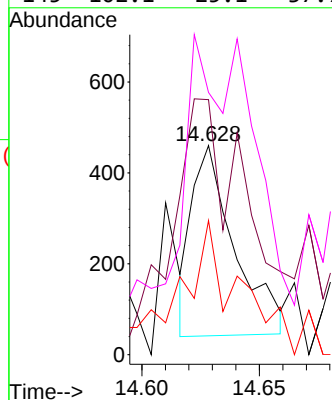
Ion Ratio Lower Upper

180 100

182 151.7 75.2 112.8#

184 47.4 23.8 35.8#

145 102.1 25.1 37.7#



#70

1,2,4-trichlorobenzene

Concen: 1.476 ug/L

RT: 15.128 min Scan# 2172

Delta R.T. -0.000 min

Lab File: VW026973.D

Acq: 31 Aug 2023 13:27

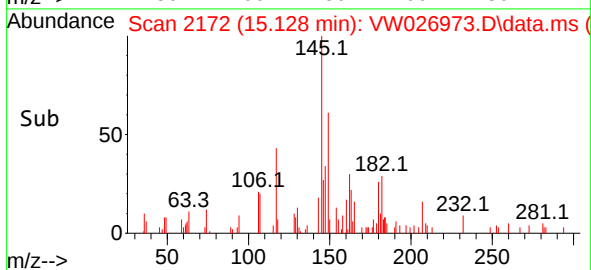
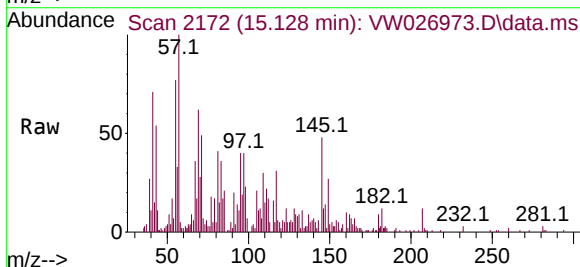
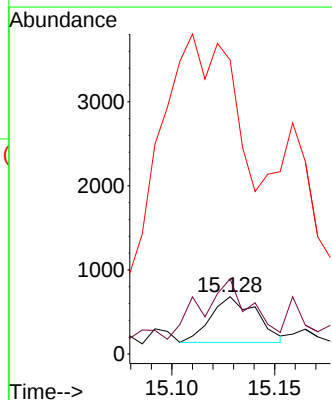
Tgt Ion:180 Resp: 839

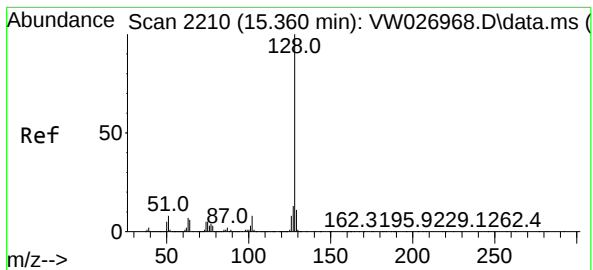
Ion Ratio Lower Upper

180 100

182 93.2 72.5 108.7

145 0.0 24.7 37.1#





#71  
Naphthalene  
Concen: 30.810 ug/L  
RT: 15.360 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VW026973.D  
Acq: 31 Aug 2023 13:27

Instrument :  
MSVOA\_W  
ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 33402     |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 127         | 12.8  | 10.7 16.1 |
| 129         | 9.9   | 9.0 13.4  |

