

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU080924\  
 Data File : VU060396.D  
 Acq On : 10 Aug 2024 02:17  
 Operator : MD/SY  
 Sample : P3540-05  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: Aug 10 06:03:34 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR080824WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sat Aug 10 05:58:50 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114   | 100907   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 107742   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.808 | 152   | 46892    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.596  | 65    | 32389    | 4.089    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 81.800%  |
| 7) Chloroethane-d5            | 1.908  | 69    | 32197    | 4.508    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 90.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.560  | 65    | 13725    | 4.072    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 81.400%  |
| 20) 2-Butanone-d5             | 4.634  | 46    | 94228    | 56.056   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 112.120% |
| 24) Chloroform-d              | 5.052  | 84    | 78812    | 5.025    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 100.600% |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65    | 37259    | 5.123    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 102.400% |
| 32) Benzene-d6                | 5.721  | 84    | 143936   | 4.430    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 88.600%  |
| 36) 1,2-Dichloropropane-d6    | 6.686  | 67    | 49660    | 4.927    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 98.600%  |
| 41) Toluene-d8                | 7.891  | 98    | 118119   | 4.072    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 81.400%  |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79    | 14004    | 4.298    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 86.000%  |
| 46) 2-Hexanone-d5             | 8.631  | 63    | 75491    | 52.207   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 104.420% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.750 | 84    | 41244    | 4.987    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 99.800%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152   | 44623    | 5.166    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 103.400% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl chloride             | 1.599  | 62    | 3401     | 0.429    | ug/L # | 80       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.573  | 101   | 16853    | 2.301    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.573  | 96    | 91444    | 13.744   | ug/L # | 72       |
| 16) Methylene chloride        | 3.036  | 84    | 491789   | 51.996   | ug/L   | 97       |
| 17) Methyl tert-butyl Ether   | 3.361  | 73    | 3243     | 0.207    | ug/L # | 91       |
| 18) trans-1,2-Dichloroethene  | 3.355  | 96    | 2107     | 0.323    | ug/L # | 90       |
| 19) 1,1-Dichloroethane        | 3.866  | 63    | 31202    | 2.315    | ug/L   | 96       |
| 22) cis-1,2-Dichloroethene    | 4.657  | 96    | 298145   | 37.838   | ug/L   | 93       |
| 25) Chloroform                | 5.078  | 83    | 86104    | 5.874    | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane     | 5.306  | 97    | 9221     | 0.782    | ug/L   | 94       |
| 31) Carbon tetrachloride      | 5.522  | 117   | 17811    | 1.723    | ug/L   | 99       |
| 34) Trichloroethene           | 6.538  | 95    | 10234850 | 1260.464 | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.686  | 83    | 10729    | 1.012    | ug/L # | 22       |
| 37) 1,2-Dichloropropane       | 6.682  | 63    | 4780     | 0.566    | ug/L # | 92       |
| 38) Bromodichloromethane      | 7.100  | 83    | 1951     | 0.187    | ug/L   | 95       |
| 42) Toluene                   | 7.965  | 91    | 16913    | 0.516    | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 8.399  | 97    | 2148     | 0.332    | ug/L   | 91       |
| 47) Tetrachloroethene         | 8.547  | 164   | 243722   | 38.373   | ug/L   | 97       |
| 49) Dibromochloromethane      | 8.547  | 129   | 230984   | 33.596   | ug/L # | 12       |

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Sample : P3540-05  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 36 Sample Multiplier: 1

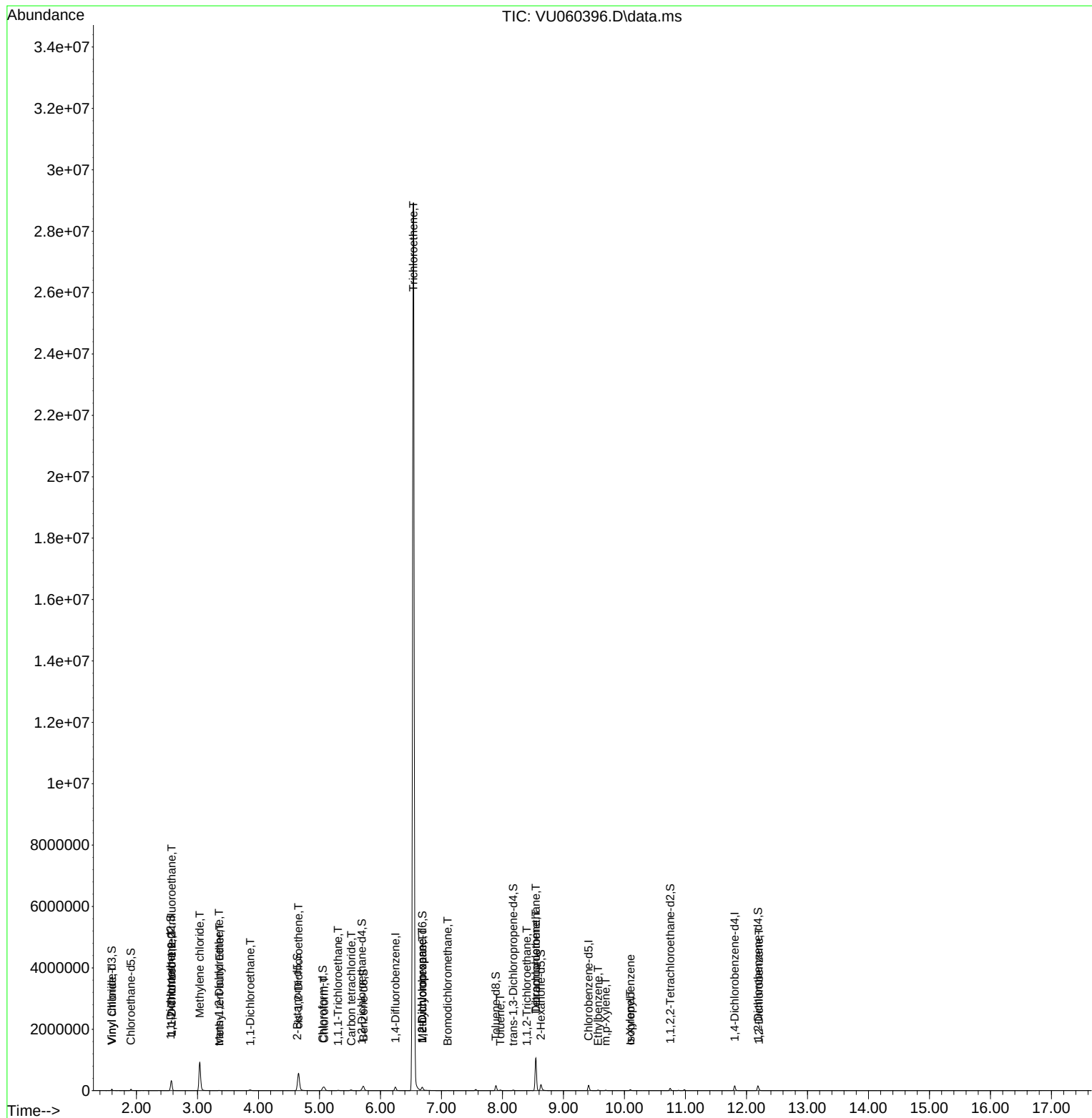
Quant Time: Aug 10 06:03:34 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR080824WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Sat Aug 10 05:58:50 2024  
Response via : Initial Calibration

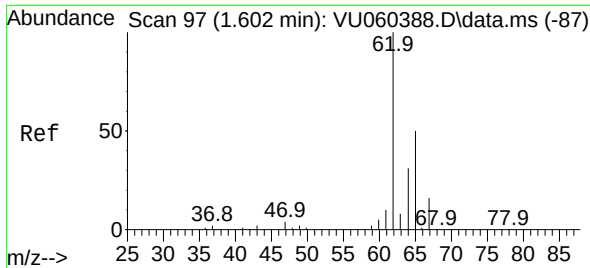
| Compound                | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------|--------|------|----------|-------|--------|----------|
| 52) Ethylbenzene        | 9.567  | 91   | 16358    | 0.474 | ug/L   | 98       |
| 53) m,p-Xylene          | 9.692  | 106  | 5209     | 0.397 | ug/L   | 97       |
| 54) o-Xylene            | 10.094 | 106  | 9332     | 0.743 | ug/L   | 96       |
| 60) Isopropylbenzene    | 10.097 | 105  | 4399     | 0.155 | ug/L # | 21       |
| 67) 1,2-Dichlorobenzene | 12.206 | 146  | 8783     | 0.645 | ug/L   | 98       |

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

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Sample : P3540-05  
Misc : 25.0mL/MSV0A\_U/WATER  
ALS Vial : 36 Sample Multiplier: 1

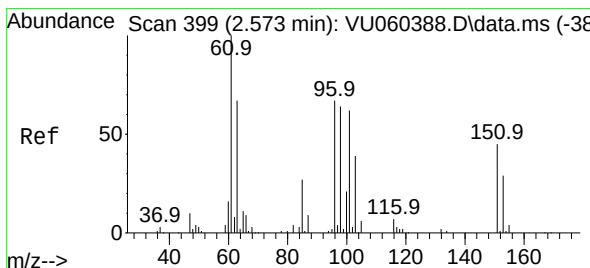
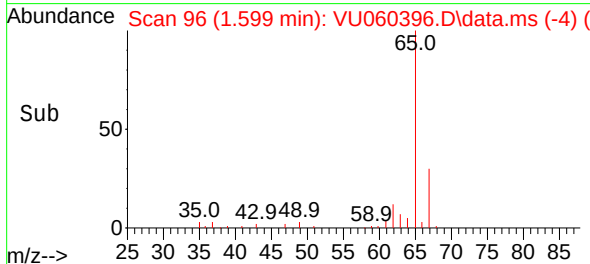
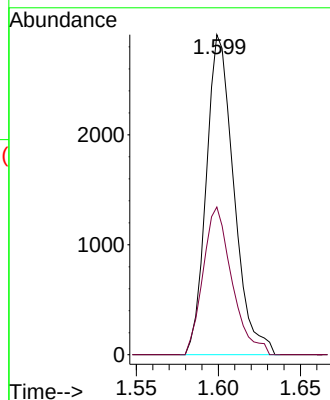
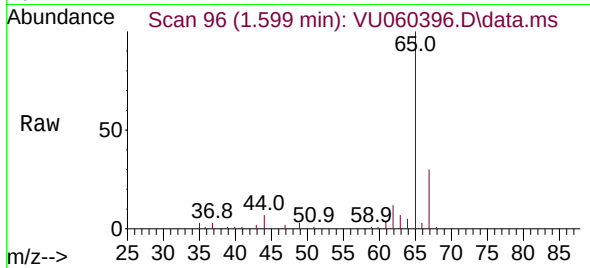
Quant Time: Aug 10 06:03:34 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSV0A\_U\Method\SFAMUTR080824WMA.M  
Quant Title : TRACE VOA SFAM1.0  
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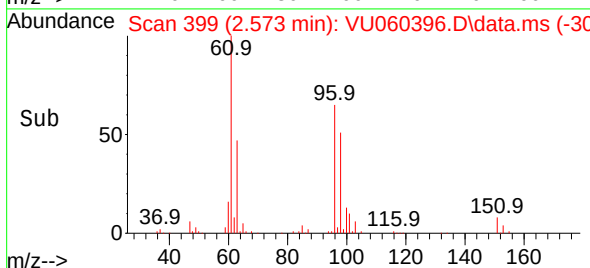
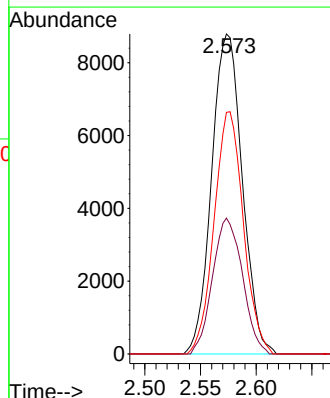
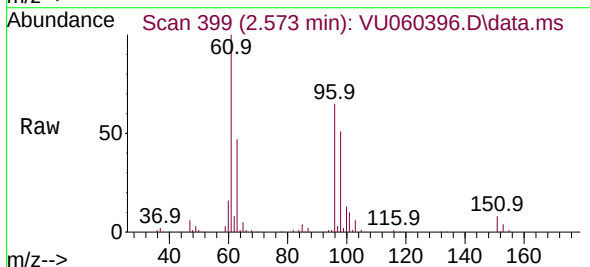
#5  
 Vinyl chloride  
 Concen: 0.429 ug/L  
 RT: 1.599 min Scan# 96  
 Delta R.T. -0.003 min  
 Lab File: VU060396.D  
 Acq: 10 Aug 2024 02:17

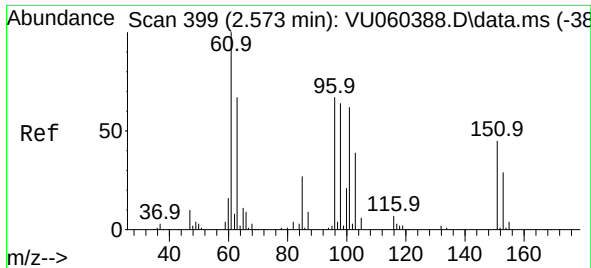
Tgt Ion: 62 Resp: 3401  
 Ion Ratio Lower Upper  
 62 100  
 64 46.2 24.1 44.7#



#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 2.301 ug/L  
 RT: 2.573 min Scan# 399  
 Delta R.T. 0.000 min  
 Lab File: VU060396.D  
 Acq: 10 Aug 2024 02:17

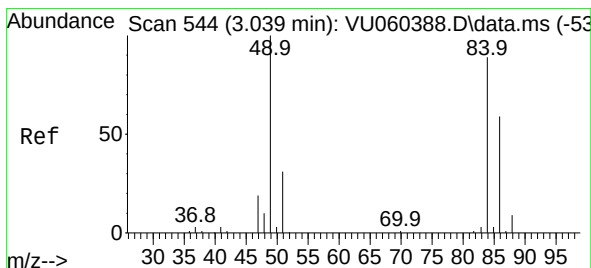
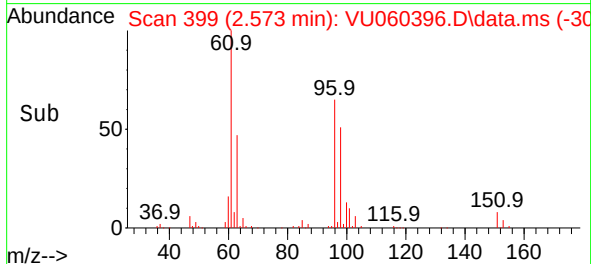
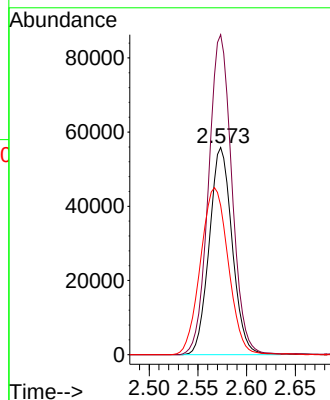
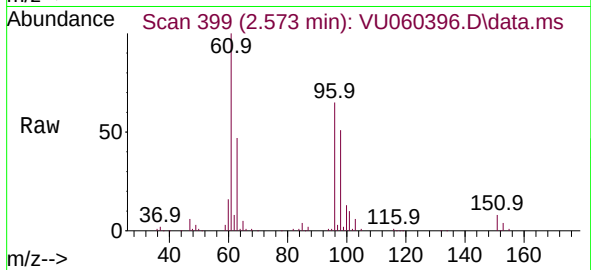
Tgt Ion: 101 Resp: 16853  
 Ion Ratio Lower Upper  
 101 100  
 85 41.3 33.5 50.3  
 151 72.2 59.7 89.5





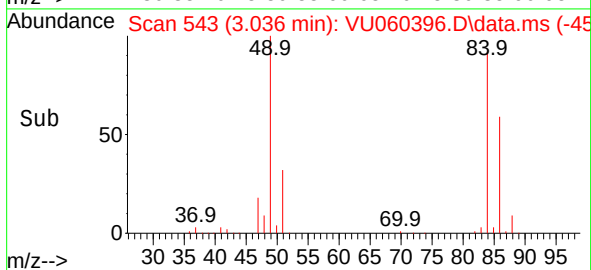
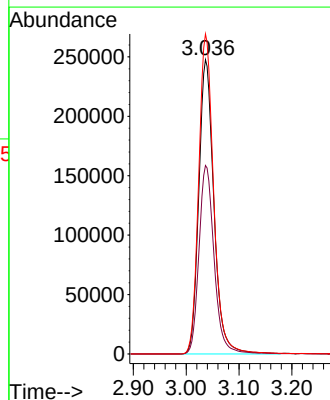
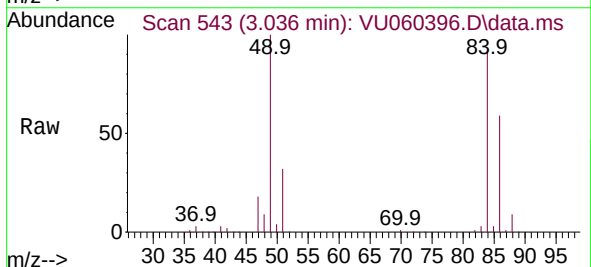
#12  
1,1-Dichloroethene  
Concen: 13.744 ug/L  
RT: 2.573 min Scan# 399  
Delta R.T. 0.000 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

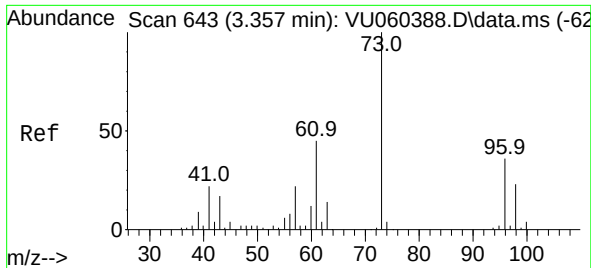
Tgt Ion: 96 Resp: 91444  
Ion Ratio Lower Upper  
96 100  
61 154.4 114.4 212.4  
63 71.9 96.0 178.4#



#16  
Methylene chloride  
Concen: 51.996 ug/L  
RT: 3.036 min Scan# 543  
Delta R.T. -0.003 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

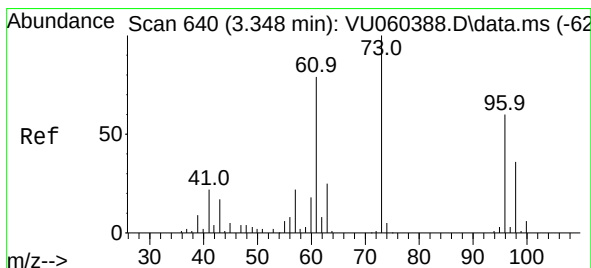
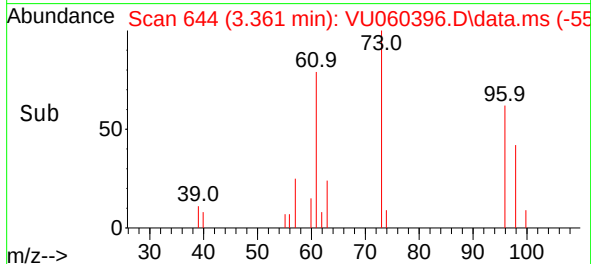
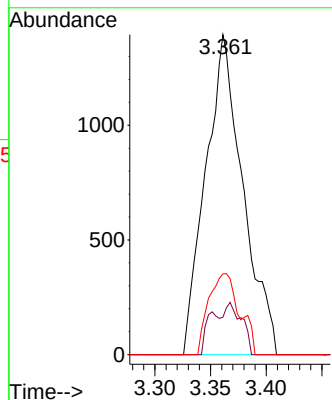
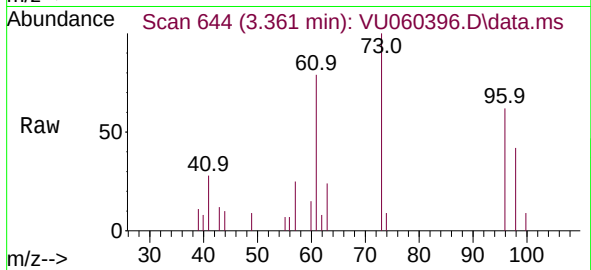
Tgt Ion: 84 Resp: 491789  
Ion Ratio Lower Upper  
84 100  
86 64.0 47.1 87.5  
49 108.7 73.9 137.3





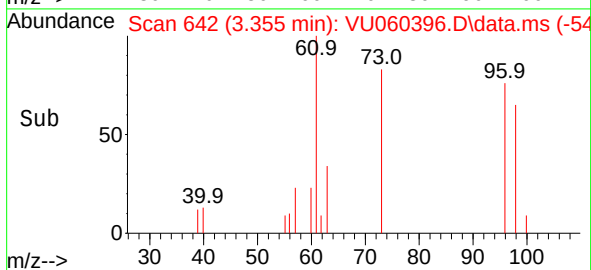
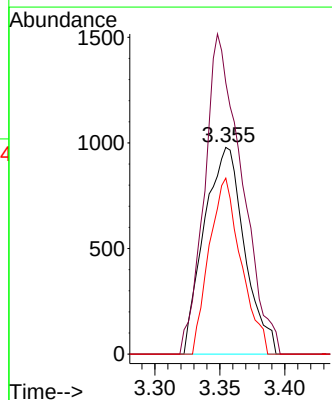
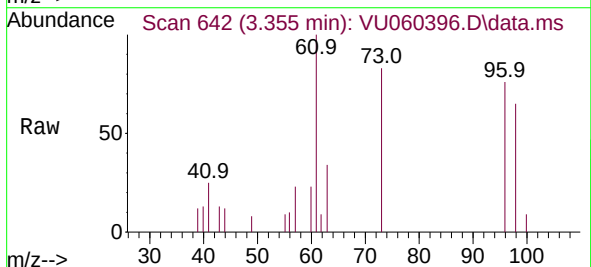
#17  
Methyl tert-butyl Ether  
Concen: 0.207 ug/L  
RT: 3.361 min Scan# 644  
Delta R.T. 0.004 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

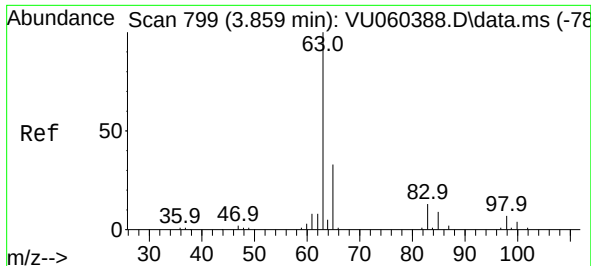
|             |       |       |
|-------------|-------|-------|
| Tgt Ion: 73 | Resp: | 3243  |
| Ion Ratio   | Lower | Upper |
| 73          | 100   |       |
| 43          | 8.1   | 12.8  |
| 57          | 21.0  | 17.5  |



#18  
trans-1,2-Dichloroethene  
Concen: 0.323 ug/L  
RT: 3.355 min Scan# 642  
Delta R.T. 0.007 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

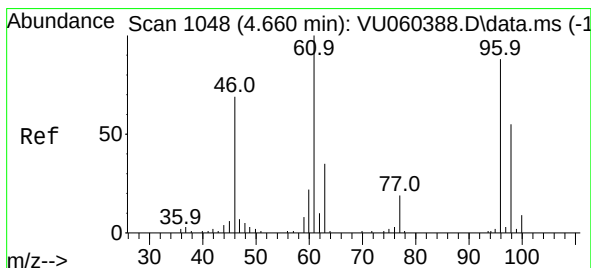
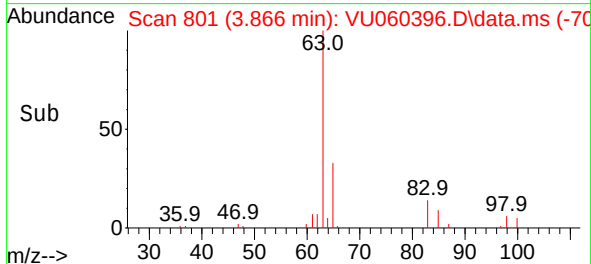
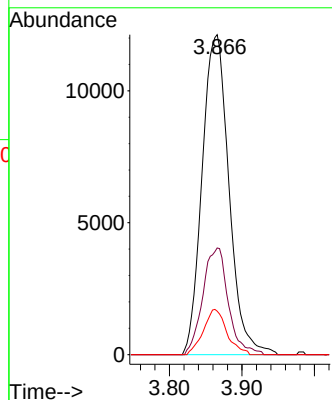
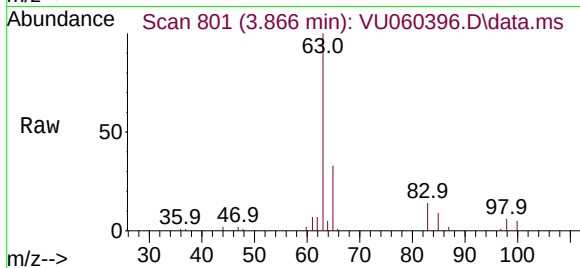
|             |       |       |
|-------------|-------|-------|
| Tgt Ion: 96 | Resp: | 2107  |
| Ion Ratio   | Lower | Upper |
| 96          | 100   |       |
| 61          | 131.3 | 93.7  |
| 98          | 85.1  | 44.7  |





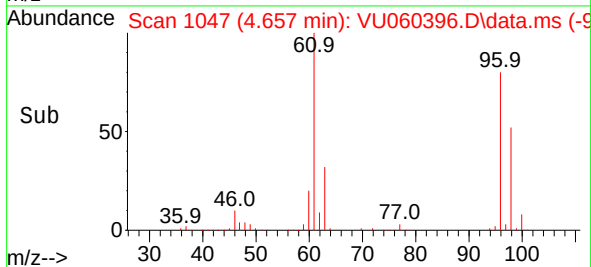
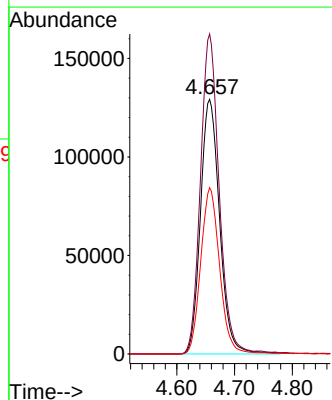
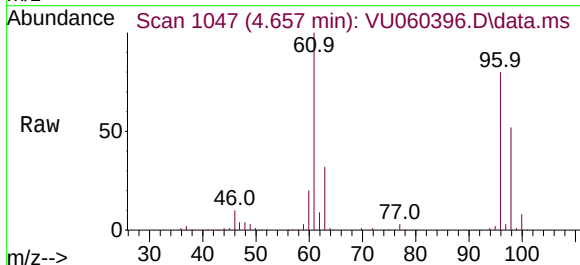
#19  
1,1-Dichloroethane  
Concen: 2.315 ug/L  
RT: 3.866 min Scan# 801  
Delta R.T. 0.007 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

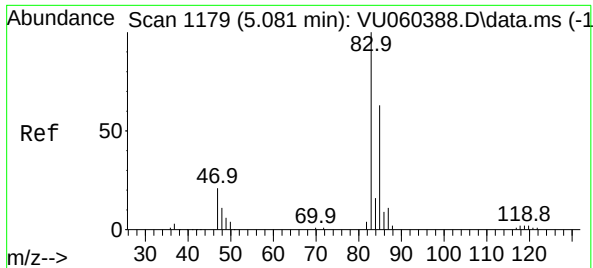
|             |                |
|-------------|----------------|
| Tgt Ion: 63 | Resp: 31202    |
| Ion Ratio   | Lower Upper    |
| 63          | 100            |
| 65          | 34.3 22.2 41.2 |
| 83          | 13.6 9.1 16.9  |



#22  
cis-1,2-Dichloroethene  
Concen: 37.838 ug/L  
RT: 4.657 min Scan# 1047  
Delta R.T. -0.003 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

|             |                  |
|-------------|------------------|
| Tgt Ion: 96 | Resp: 298145     |
| Ion Ratio   | Lower Upper      |
| 96          | 100              |
| 61          | 125.7 81.5 151.5 |
| 98          | 65.3 43.5 80.7   |





#25

Chloroform

Concen: 5.874 ug/L

RT: 5.078 min Scan# 1178

Delta R.T. -0.003 min

Lab File: VU060396.D

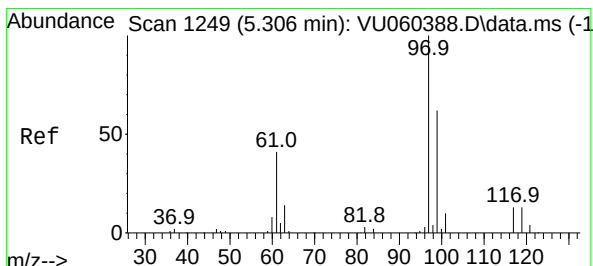
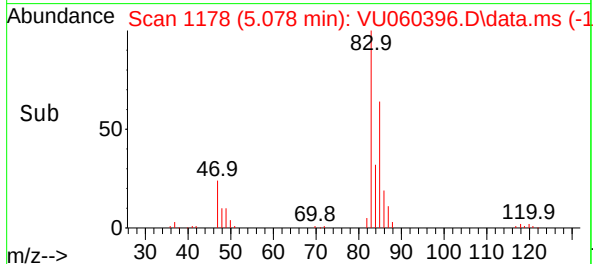
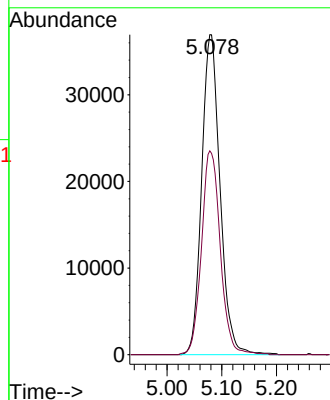
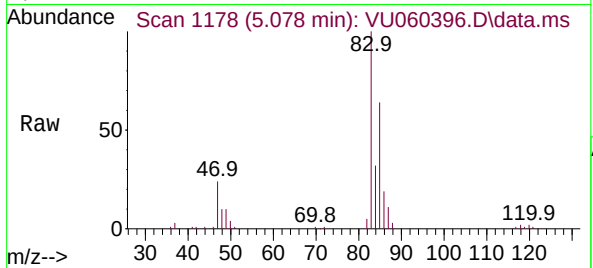
Acq: 10 Aug 2024 02:17

Tgt Ion: 83 Resp: 86104

Ion Ratio Lower Upper

83 100

85 63.7 45.6 84.6



#29

1,1,1-Trichloroethane

Concen: 0.782 ug/L

RT: 5.306 min Scan# 1249

Delta R.T. 0.000 min

Lab File: VU060396.D

Acq: 10 Aug 2024 02:17

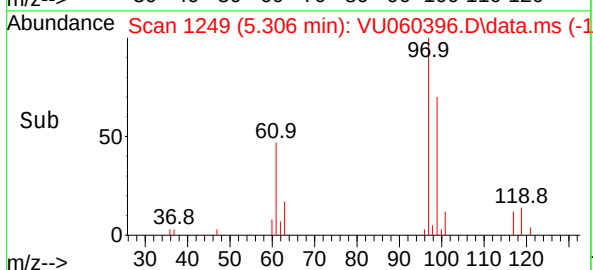
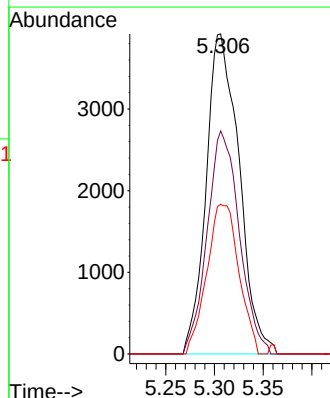
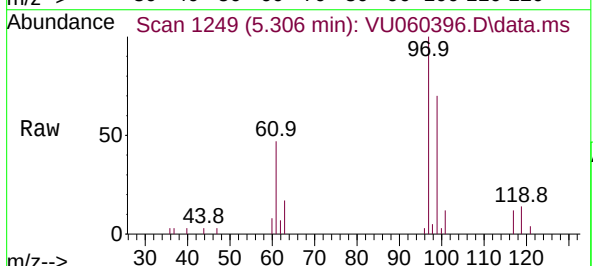
Tgt Ion: 97 Resp: 9221

Ion Ratio Lower Upper

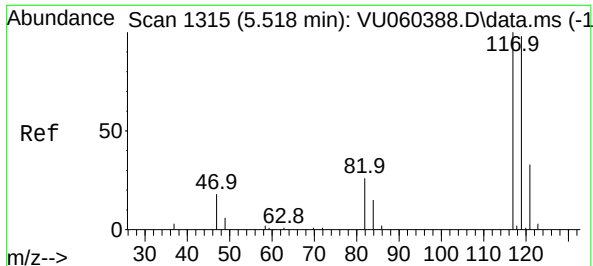
97 100

99 68.2 51.4 77.2

61 45.5 33.0 49.6

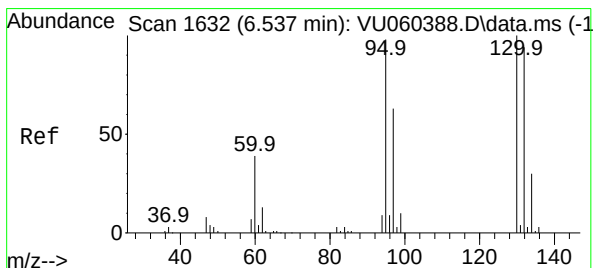
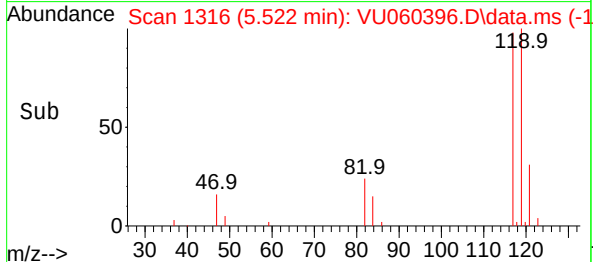
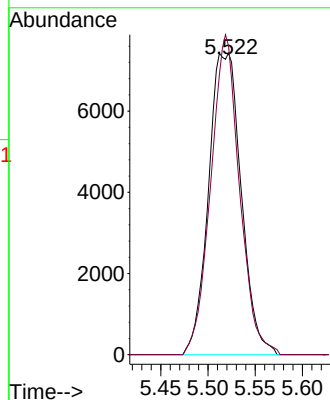
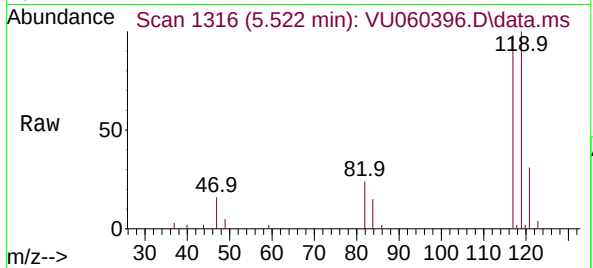






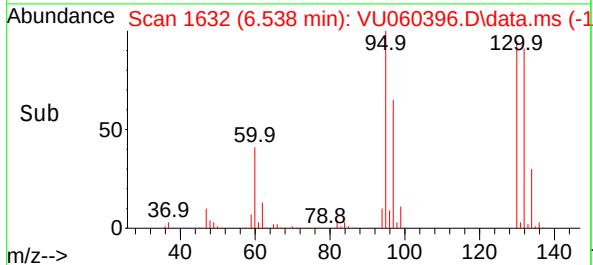
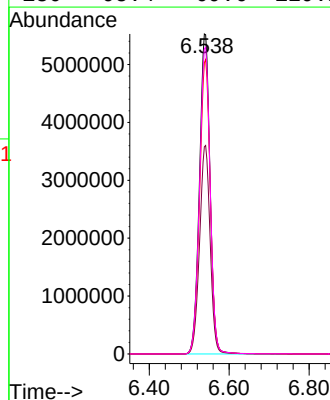
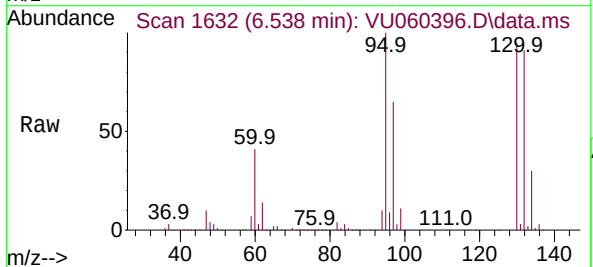
#31  
Carbon tetrachloride  
Concen: 1.723 ug/L  
RT: 5.522 min Scan# 1316  
Delta R.T. 0.004 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

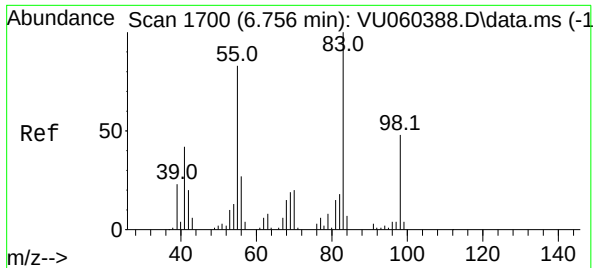
Tgt Ion:117 Resp: 17811  
Ion Ratio Lower Upper  
117 100  
119 93.7 75.8 113.8



#34  
Trichloroethene  
Concen: 1260.464 ug/L  
RT: 6.538 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

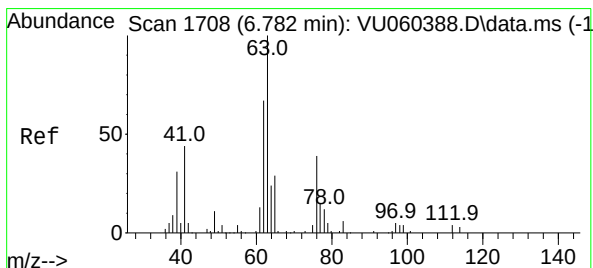
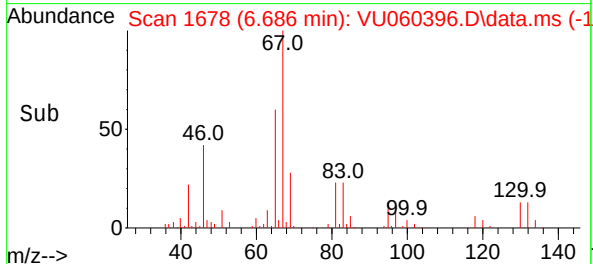
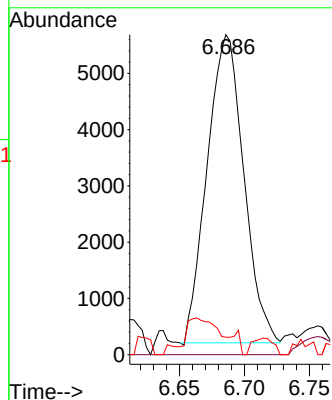
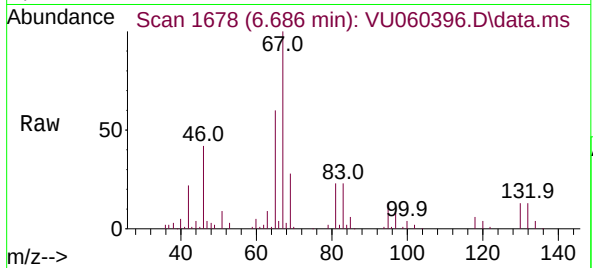
Tgt Ion: 95 Resp:10234850  
Ion Ratio Lower Upper  
95 100  
97 64.8 43.6 81.0  
132 91.0 67.1 124.5  
130 95.4 69.6 129.2





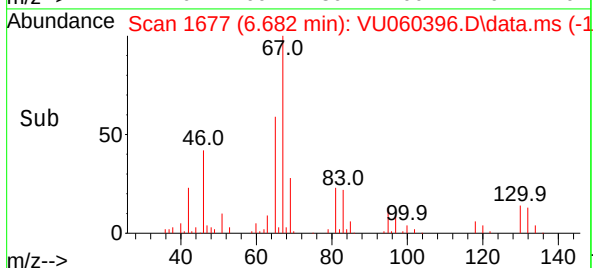
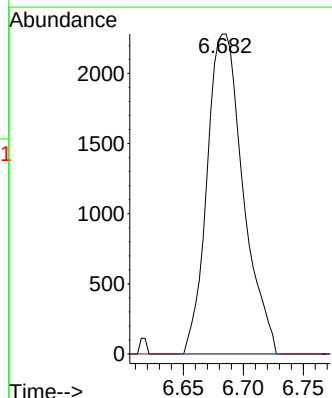
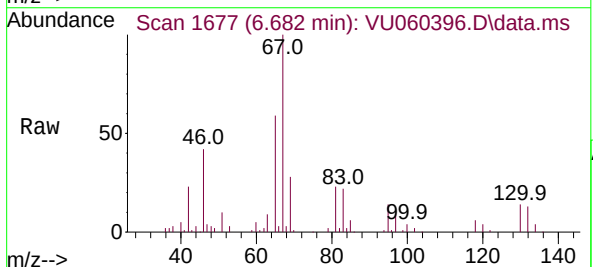
#35  
Methylcyclohexane  
Concen: 1.012 ug/L  
RT: 6.686 min Scan# 1678  
Delta R.T. -0.070 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

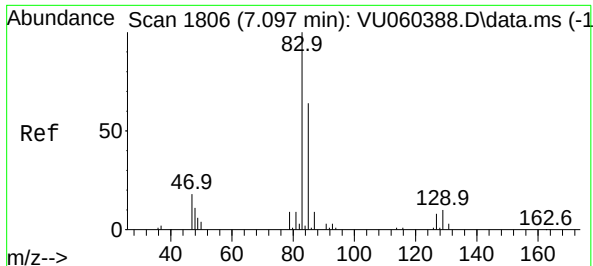
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 10729 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 55        | 5.3   | 62.4  | 93.6# |
| 98        | 0.0   | 37.3  | 55.9# |



#37  
1,2-Dichloropropane  
Concen: 0.566 ug/L  
RT: 6.682 min Scan# 1677  
Delta R.T. -0.099 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 63    | Resp: | 4780 |
| Ion Ratio | Lower | Upper |      |
| 63        | 100   |       |      |
| 112       | 1.4   | 3.3   | 4.9# |





#38

Bromodichloromethane

Concen: 0.187 ug/L

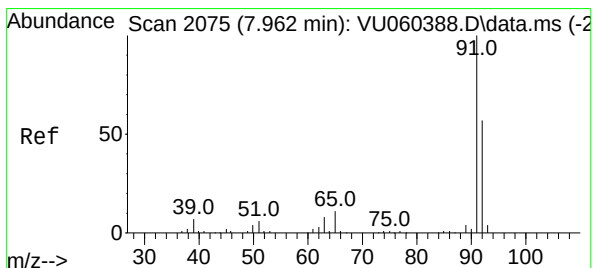
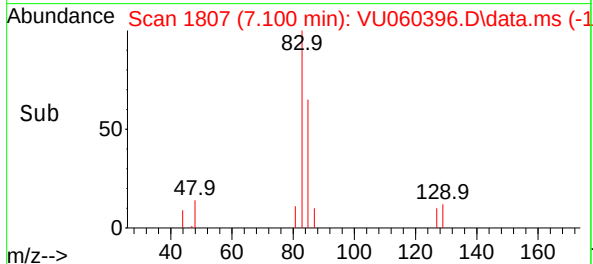
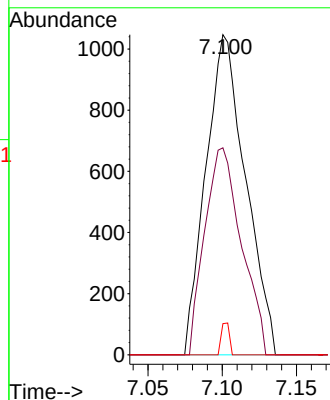
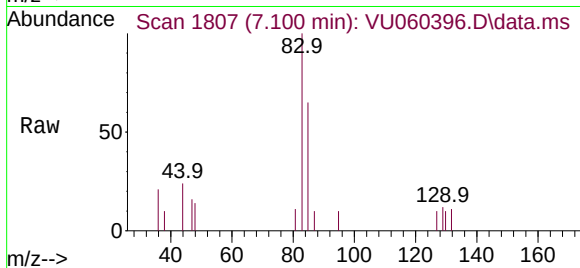
RT: 7.100 min Scan# 1807

Delta R.T. 0.004 min

Lab File: VU060396.D

Acq: 10 Aug 2024 02:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 1951  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 64.7  | 42.4  | 78.8  |
| 127      | 9.7   | 7.0   | 10.4  |



#42

Toluene

Concen: 0.516 ug/L

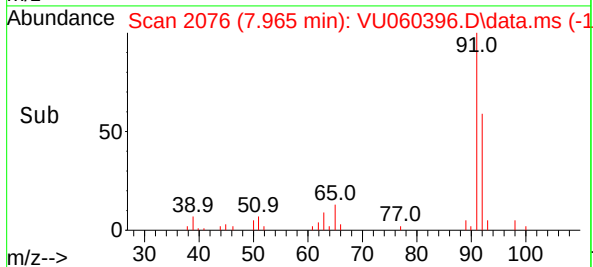
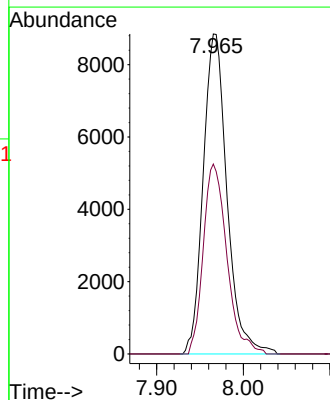
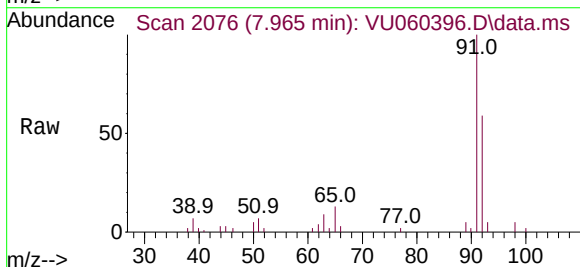
RT: 7.965 min Scan# 2076

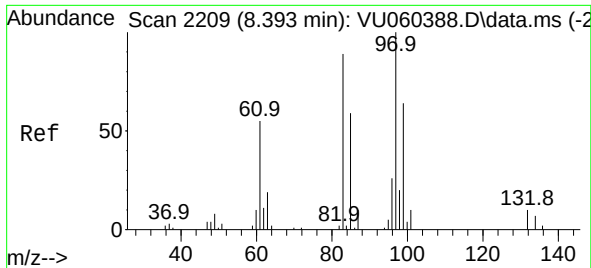
Delta R.T. 0.004 min

Lab File: VU060396.D

Acq: 10 Aug 2024 02:17

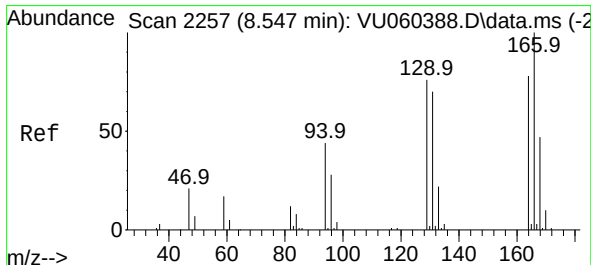
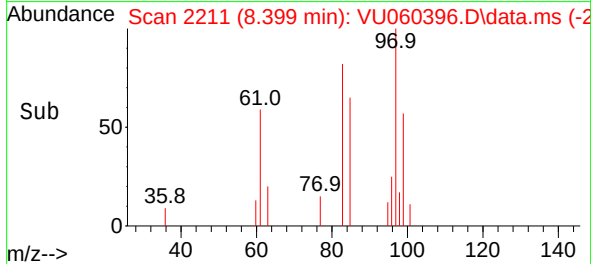
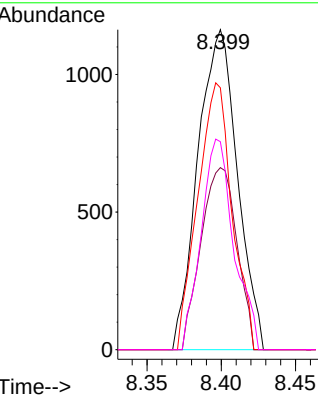
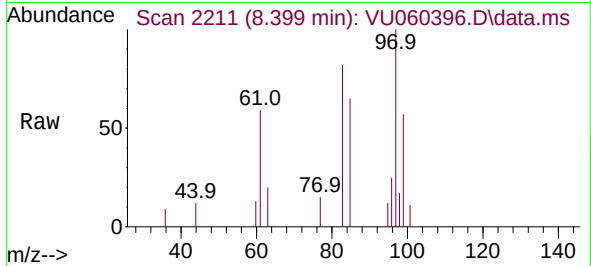
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 16913 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 59.4  | 40.6  | 75.4  |





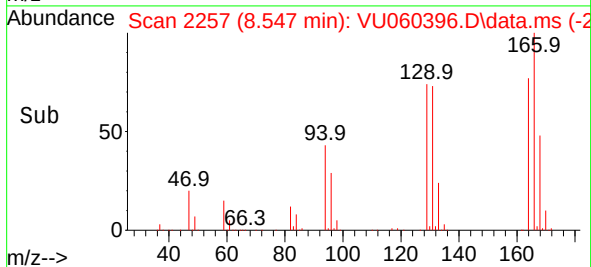
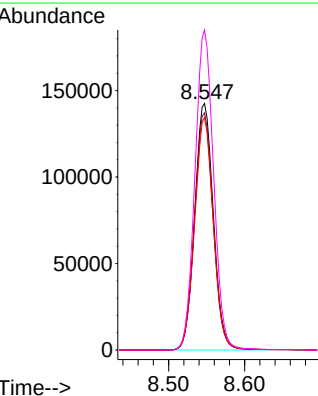
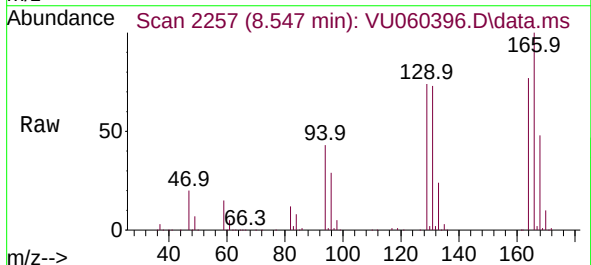
#45  
1,1,2-Trichloroethane  
Concen: 0.332 ug/L  
RT: 8.399 min Scan# 2211  
Delta R.T. 0.007 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

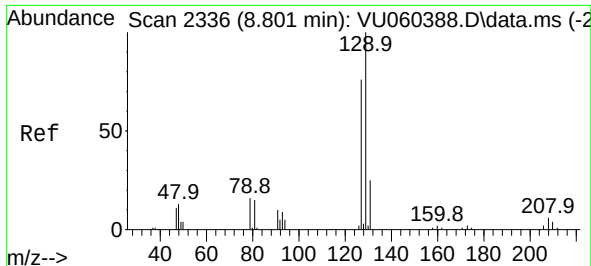
| Tgt Ion: | 97    | Resp: | 2148  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 56.9  | 45.8  | 85.0  |
| 83       | 81.9  | 61.7  | 114.5 |
| 85       | 65.0  | 40.7  | 75.7  |



#47  
Tetrachloroethene  
Concen: 38.373 ug/L  
RT: 8.547 min Scan# 2257  
Delta R.T. 0.000 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

| Tgt Ion: | 164   | Resp: | 243722 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 96.2  | 69.0  | 128.1  |
| 131      | 94.3  | 62.6  | 116.3  |
| 166      | 129.8 | 89.2  | 165.8  |





#49

Dibromochloromethane

Concen: 33.596 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.254 min

Lab File: VU060396.D

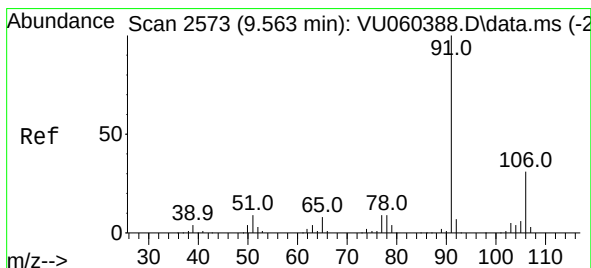
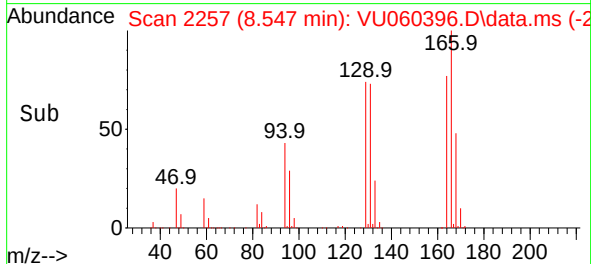
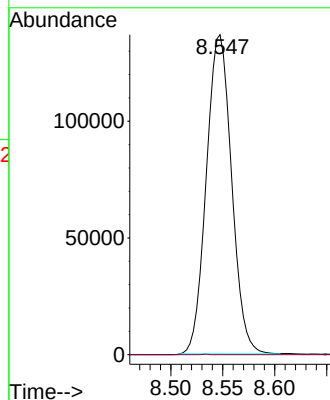
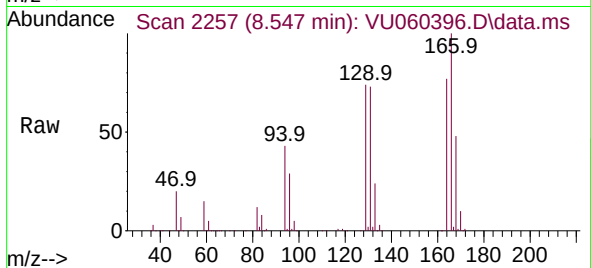
Acq: 10 Aug 2024 02:17

Tgt Ion:129 Resp: 230984

Ion Ratio Lower Upper

129 100

127 0.0 51.9 96.3#



#52

Ethylbenzene

Concen: 0.474 ug/L

RT: 9.567 min Scan# 2574

Delta R.T. 0.004 min

Lab File: VU060396.D

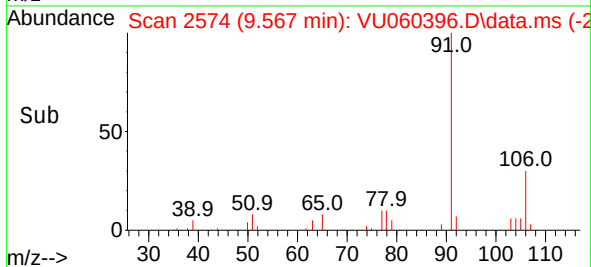
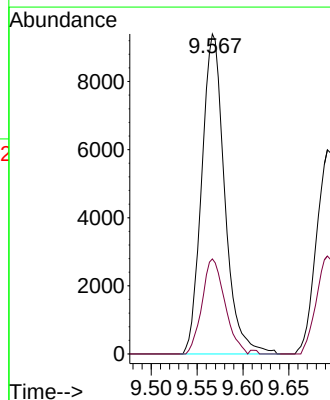
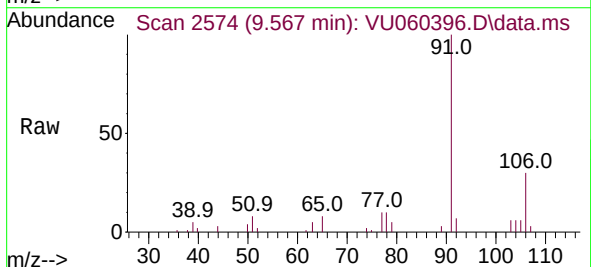
Acq: 10 Aug 2024 02:17

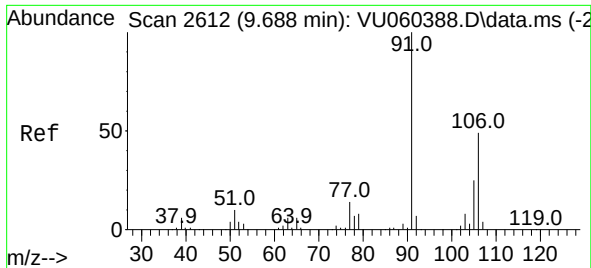
Tgt Ion: 91 Resp: 16358

Ion Ratio Lower Upper

91 100

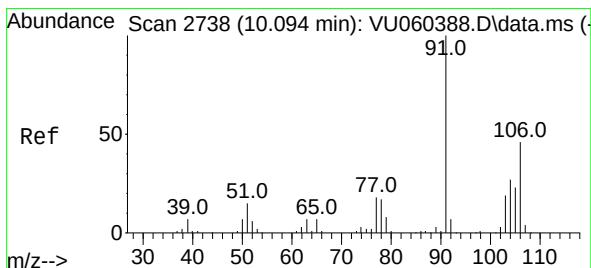
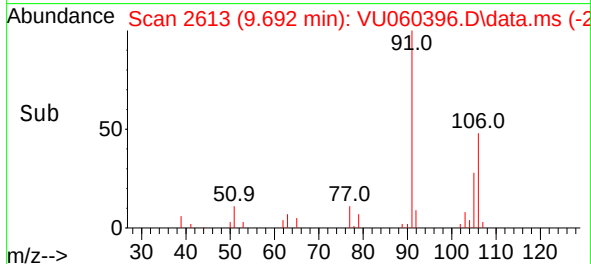
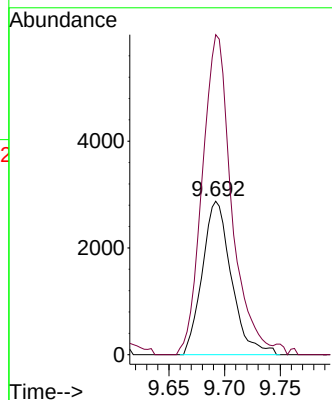
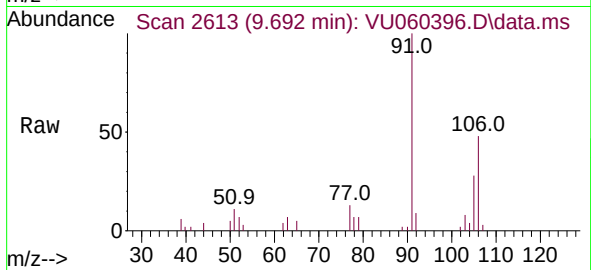
106 29.7 21.6 40.2





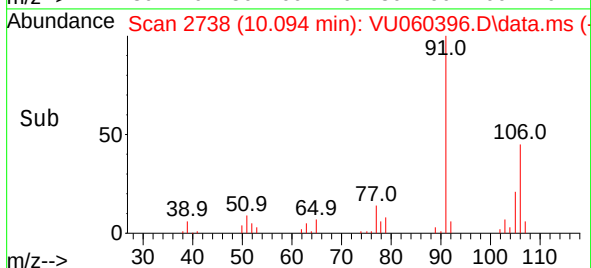
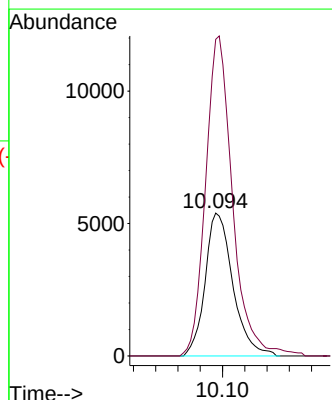
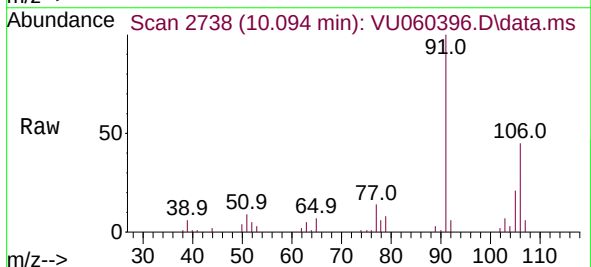
#53  
m,p-Xylene  
Concen: 0.397 ug/L  
RT: 9.692 min Scan# 2613  
Delta R.T. 0.004 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

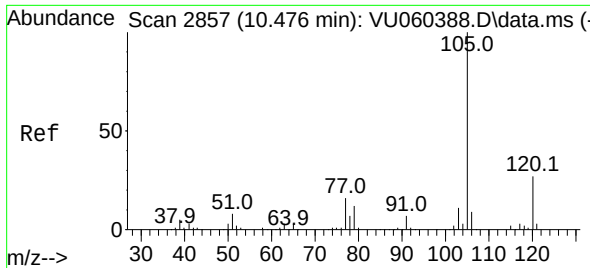
Tgt Ion:106 Resp: 5209  
Ion Ratio Lower Upper  
106 100  
91 208.6 143.2 266.0



#54  
o-Xylene  
Concen: 0.743 ug/L  
RT: 10.094 min Scan# 2738  
Delta R.T. 0.000 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

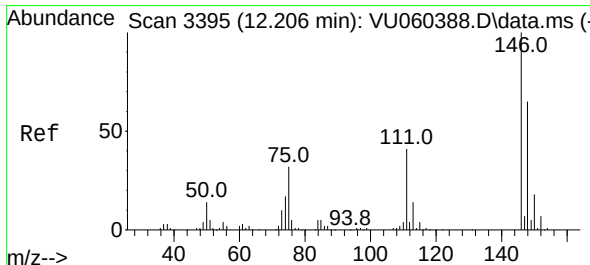
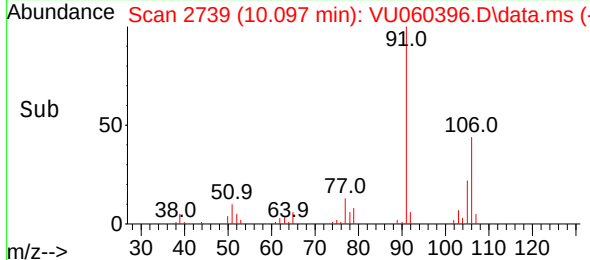
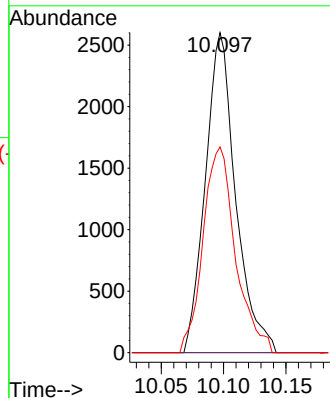
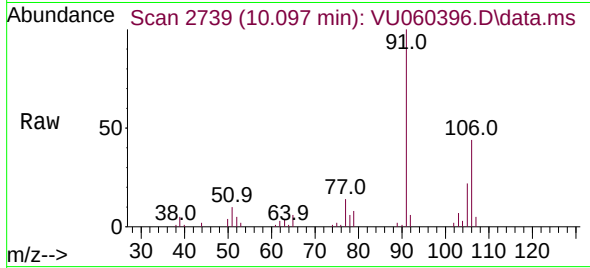
Tgt Ion:106 Resp: 9332  
Ion Ratio Lower Upper  
106 100  
91 221.6 150.2 279.0





#60  
Isopropylbenzene  
Concen: 0.155 ug/L  
RT: 10.097 min Scan# 2739  
Delta R.T. -0.379 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 0.0   | 21.0  | 31.6# |
| 77      | 68.8  | 12.6  | 19.0# |



#67  
1,2-Dichlorobenzene  
Concen: 0.645 ug/L  
RT: 12.206 min Scan# 3395  
Delta R.T. 0.000 min  
Lab File: VU060396.D  
Acq: 10 Aug 2024 02:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.3  | 32.0  | 48.0  |
| 148     | 65.0  | 51.8  | 77.8  |

