

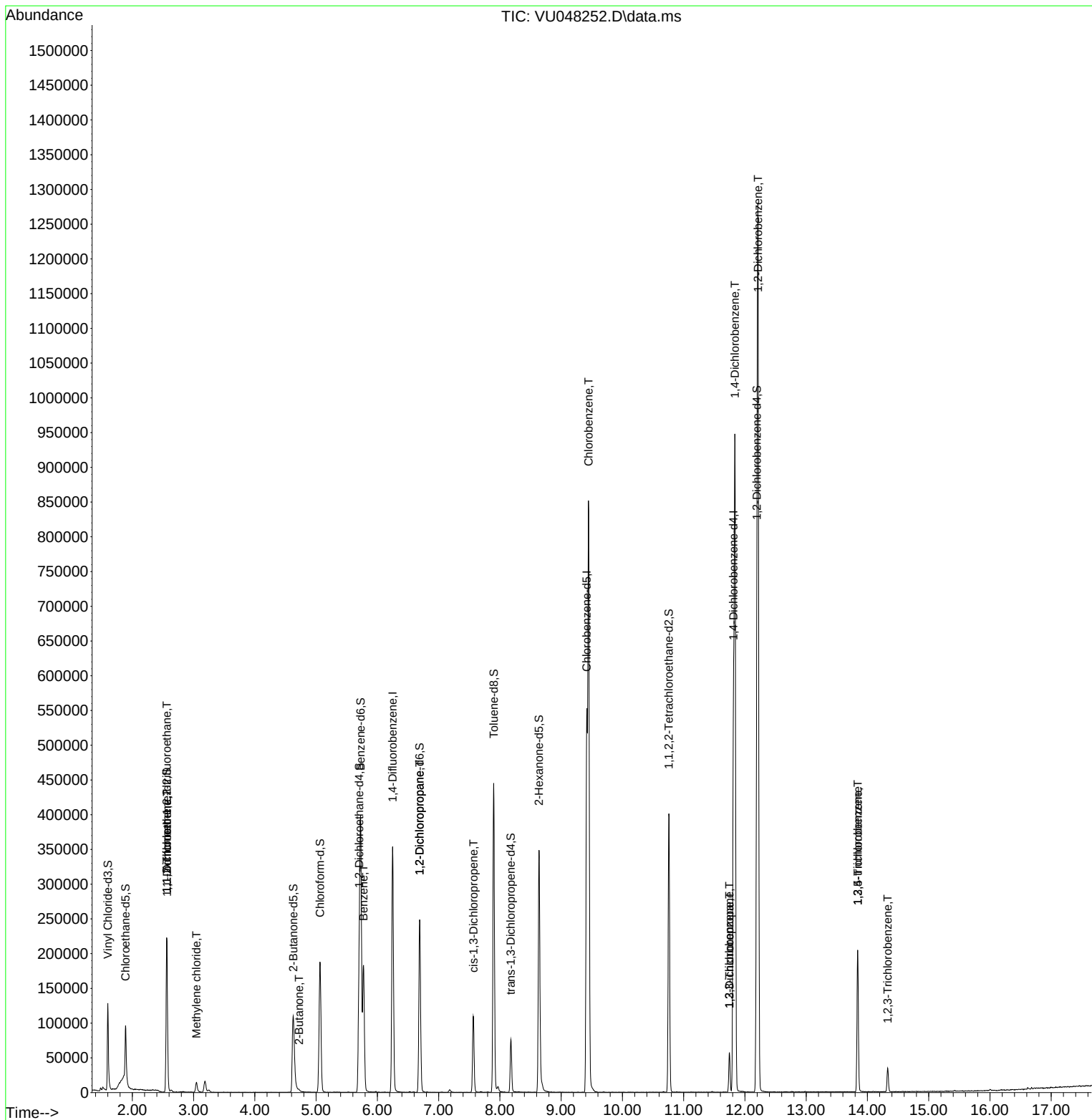
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU042322\  
 Data File : VU048252.D  
 Acq On : 23 Apr 2022 17:37  
 Operator : SY/MD  
 Sample : N2488-11 200X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 42 Sample Multiplier: 1

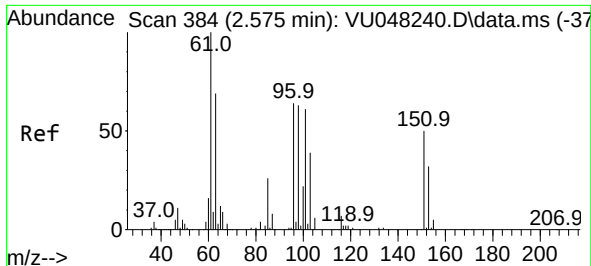
Quant Time: Apr 25 01:27:36 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM032422WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Apr 25 01:24:32 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250          | 114  | 302509     | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417          | 117  | 314622     | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812         | 152  | 151820     | 50.000   | ug/L   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601          | 65   | 102848     | 46.884   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 93.760%  |        |          |
| 7) Chloroethane-d5            | 1.890          | 69   | 79080      | 45.718   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 91.440%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.562          | 63   | 128715     | 32.070   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 64.140%  |        |          |
| 21) 2-Butanone-d5             | 4.626          | 46   | 170041     | 90.308   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 90.310%  |        |          |
| 24) Chloroform-d              | 5.063          | 84   | 179175     | 44.639   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 89.280%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.703          | 65   | 115025     | 46.724   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 93.440%  |        |          |
| 32) Benzene-d6                | 5.726          | 84   | 374203     | 47.267   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 94.540%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.690          | 67   | 123925     | 50.970   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 101.940% |        |          |
| 41) Toluene-d8                | 7.899          | 98   | 305811     | 39.647   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 79.300%# |        |          |
| 43) trans-1,3-Dichloroprop... | 8.179          | 79   | 43409      | 35.242   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 70.480%  |        |          |
| 47) 2-Hexanone-d5             | 8.639          | 63   | 119916     | 84.253   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 84.250%  |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758         | 84   | 201792     | 48.362   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 96.720%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.195         | 152  | 138953     | 51.445   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 102.880% |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.562          | 101  | 1209       | 0.542    | ug/L # | 18       |
| 12) 1,1-Dichloroethene        | 2.565          | 96   | 1061       | 0.511    | ug/L # | 1        |
| 16) Methylene chloride        | 3.044          | 84   | 8173       | 3.432    | ug/L   | 96       |
| 22) 2-Butanone                | 4.719          | 43   | 3772       | 1.671    | ug/L   | 88       |
| 33) Benzene                   | 5.774          | 78   | 177239     | 19.462   | ug/L   | 100      |
| 37) 1,2-Dichloropropane       | 6.690          | 63   | 12432      | 5.370    | ug/L # | 87       |
| 39) cis-1,3-Dichloropropene   | 7.568          | 75   | 2413       | 0.672    | ug/L # | 56       |
| 51) Chlorobenzene             | 9.449          | 112  | 477394     | 70.363   | ug/L   | 98       |
| 60) 1,2,3-Trichloropropane    | 11.748         | 75   | 6395       | 2.234    | ug/L # | 47       |
| 64) 1,3-Dichlorobenzene       | 11.748         | 146  | 25069      | 5.497    | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.838         | 146  | 391161     | 82.806   | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.214         | 146  | 502939     | 110.214  | ug/L   | 100      |
| 69) 1,3,5-Trichlorobenzene    | 13.841         | 180  | 70227      | 18.960   | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.841         | 180  | 70227      | 21.647   | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.330         | 180  | 12262      | 3.770    | ug/L   | 100      |
| -----                         |                |      |            |          |        |          |

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

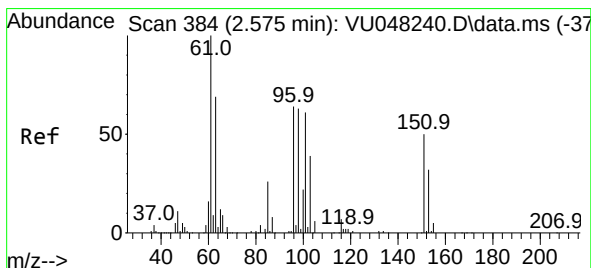
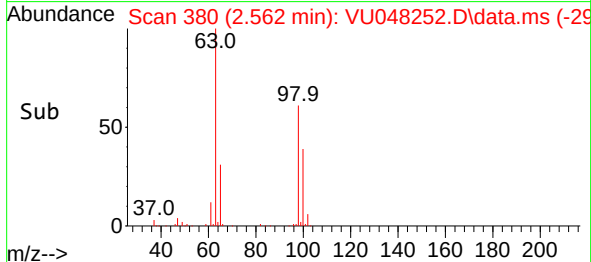
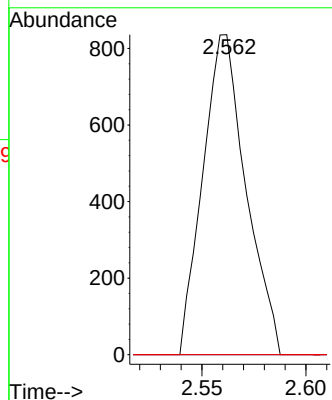
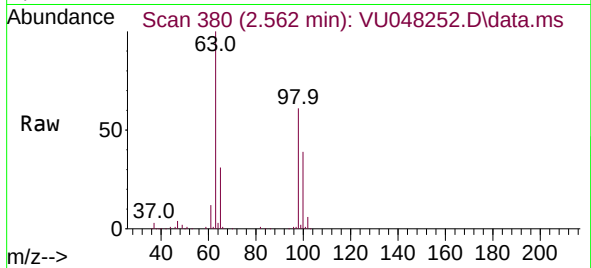
Quant Time: Apr 25 01:27:36 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM032422WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Apr 25 01:24:32 2022  
Response via : Initial Calibration





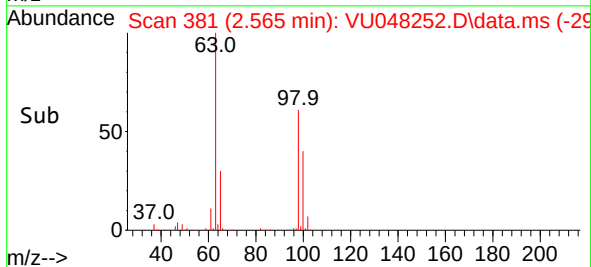
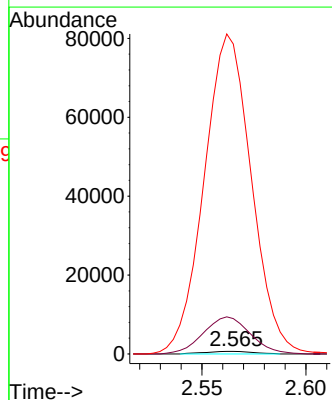
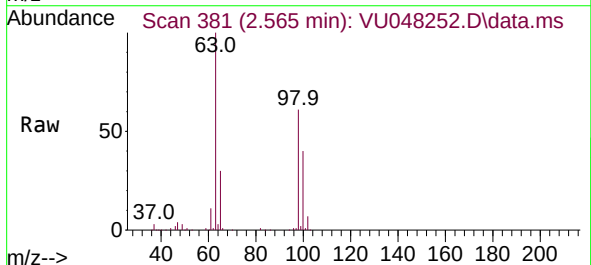
#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.542 ug/L  
RT: 2.562 min Scan# 380  
Delta R.T. -0.013 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37

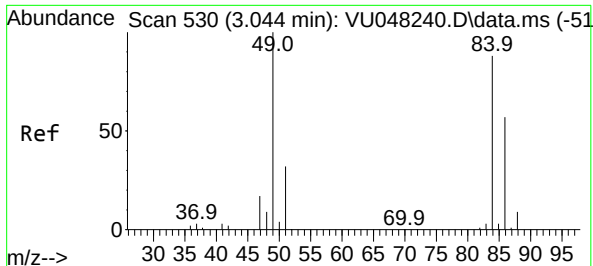
Tgt Ion:101 Resp: 1209  
Ion Ratio Lower Upper  
101 100  
85 0.0 32.8 49.2#  
151 0.0 63.0 94.6#



#12  
1,1-Dichloroethene  
Concen: 0.511 ug/L  
RT: 2.565 min Scan# 381  
Delta R.T. -0.010 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37

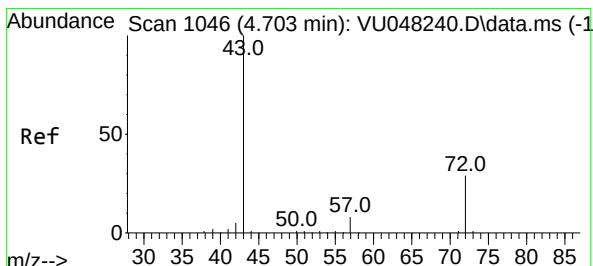
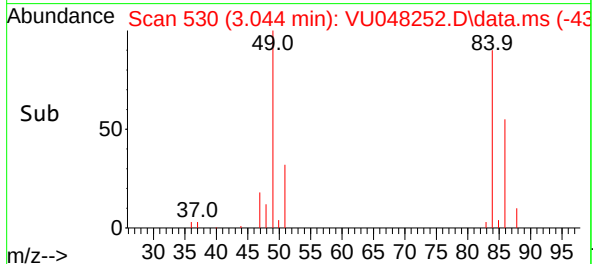
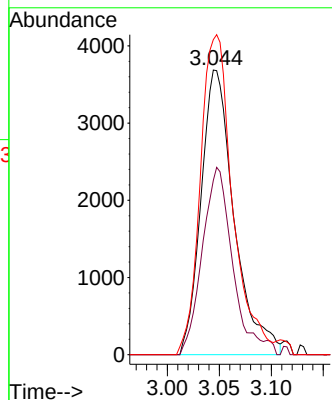
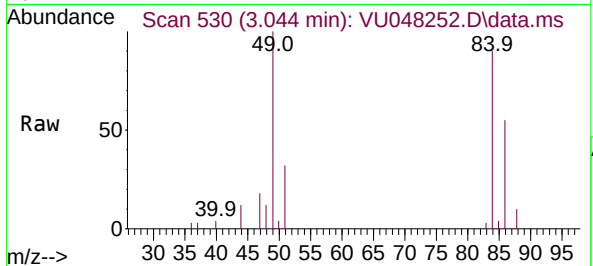
Tgt Ion: 96 Resp: 1061  
Ion Ratio Lower Upper  
96 100  
61 1340.5 113.1 210.1#  
63 11745.3 94.8 176.0#





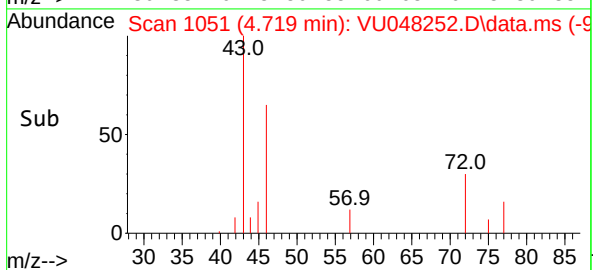
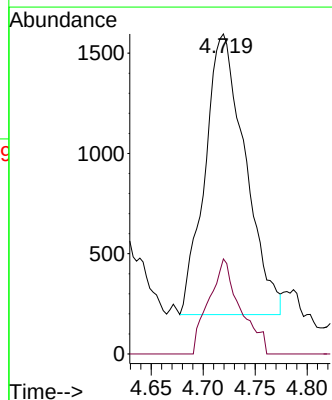
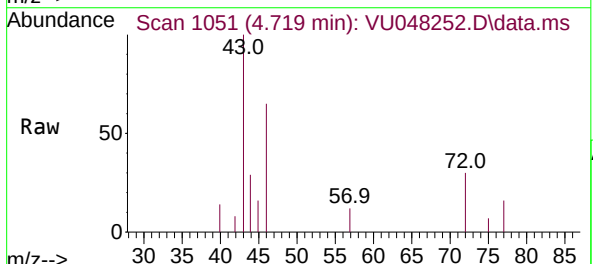
#16  
Methylene chloride  
Concen: 3.432 ug/L  
RT: 3.044 min Scan# 530  
Delta R.T. 0.000 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37

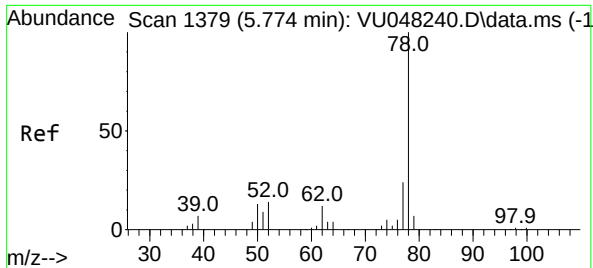
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 8173  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 86       | 61.2  | 46.0  | 85.4  |
| 49       | 110.7 | 75.3  | 139.8 |



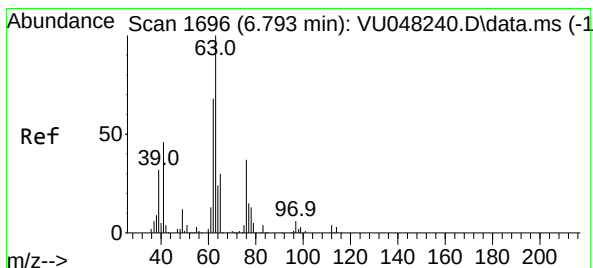
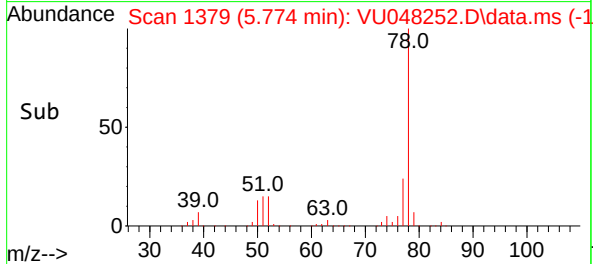
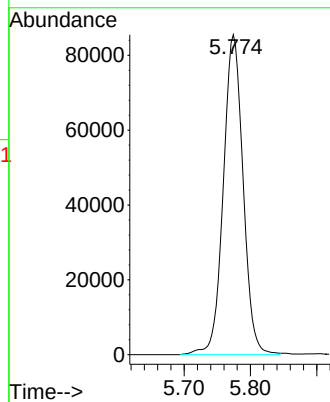
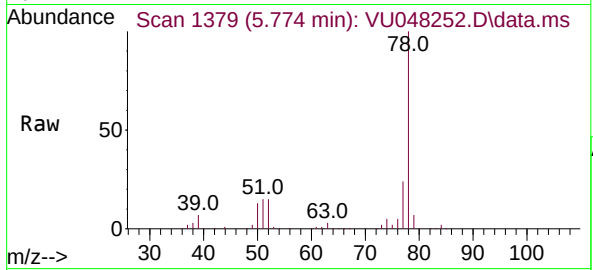
#22  
2-Butanone  
Concen: 1.671 ug/L  
RT: 4.719 min Scan# 1051  
Delta R.T. 0.016 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3772  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 25.4  | 16.0  | 47.9  |

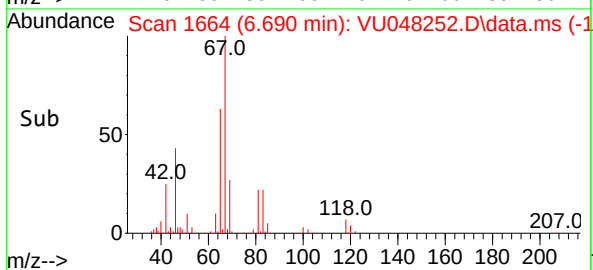
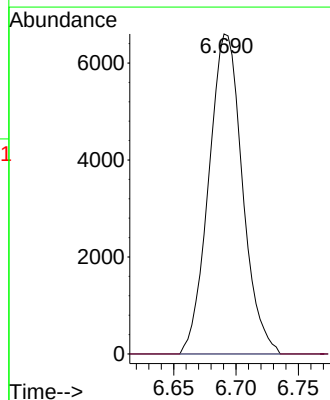
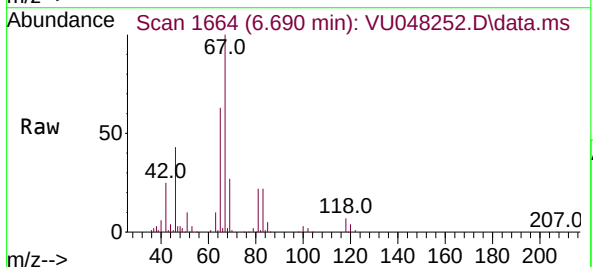


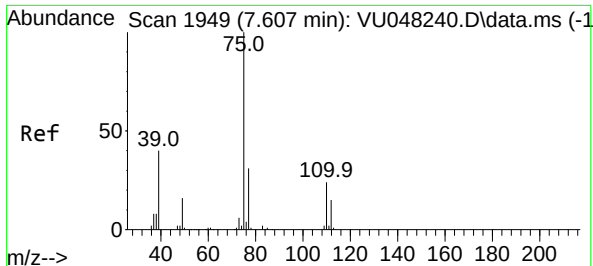


#33  
Benzene  
Concen: 19.462 ug/L  
RT: 5.774 min Scan# 1379  
Delta R.T. 0.000 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37  
Tgt Ion: 78 Resp: 177239



#37  
1,2-Dichloropropane  
Concen: 5.370 ug/L  
RT: 6.690 min Scan# 1664  
Delta R.T. -0.103 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37  
Tgt Ion: 63 Resp: 12432  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.4 5.2#

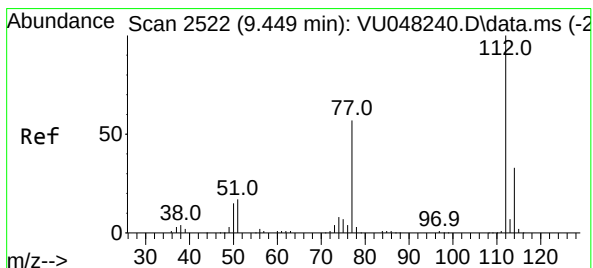
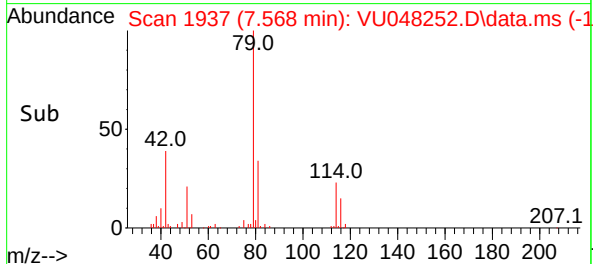
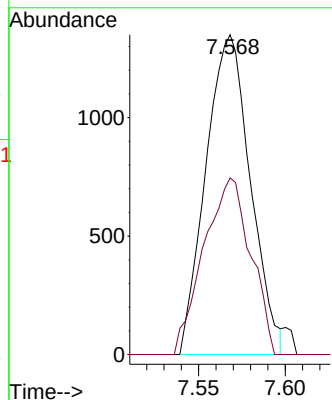
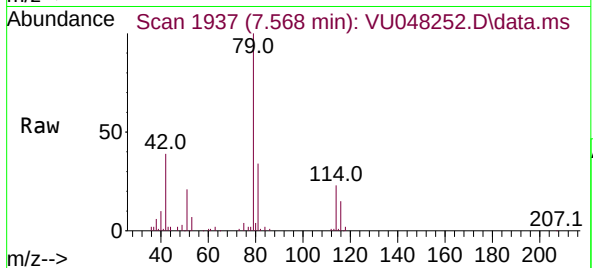




#39

cis-1,3-Dichloropropene  
Concen: 0.672 ug/L  
RT: 7.568 min Scan# 1937  
Delta R.T. -0.039 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37

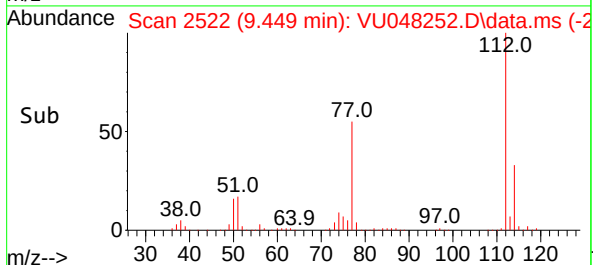
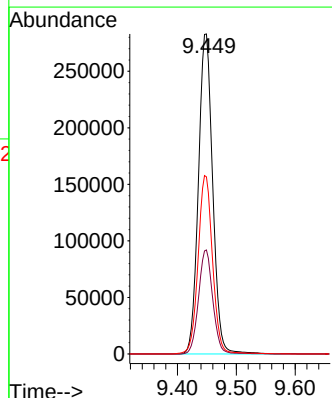
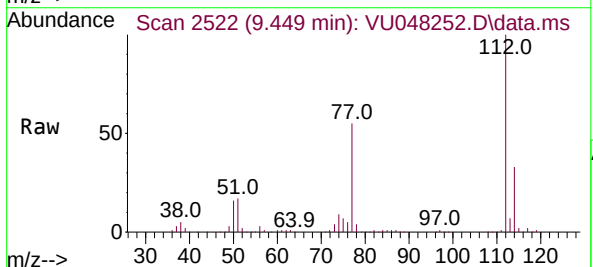
Tgt Ion: 75 Resp: 2413  
Ion Ratio Lower Upper  
75 100  
77 55.3 21.8 40.6#

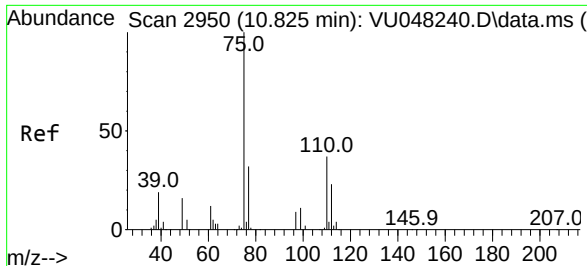


#51

Chlorobenzene  
Concen: 70.363 ug/L  
RT: 9.449 min Scan# 2522  
Delta R.T. 0.000 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37

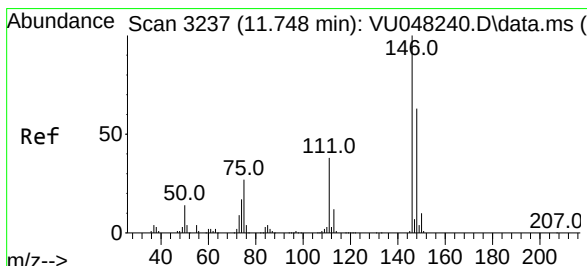
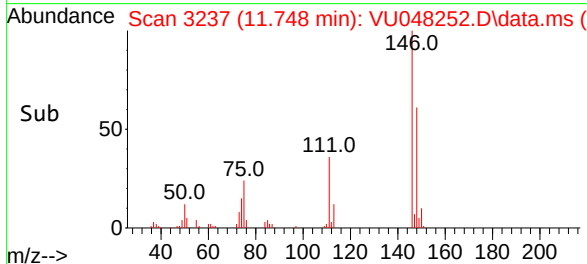
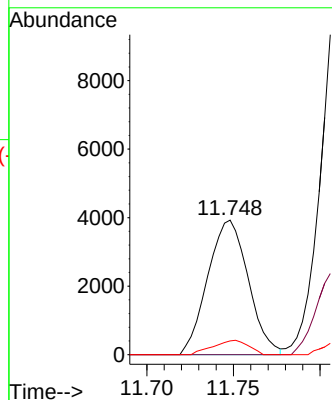
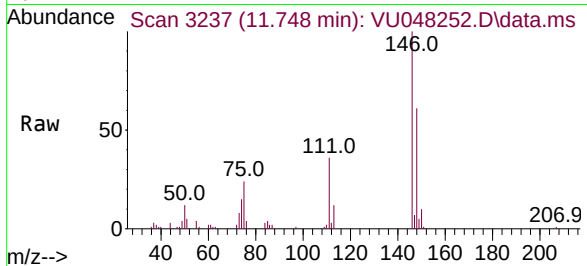
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Ion Ratio Lower Upper  
112 100  
114 32.5 22.1 41.1  
77 55.4 43.4 65.0





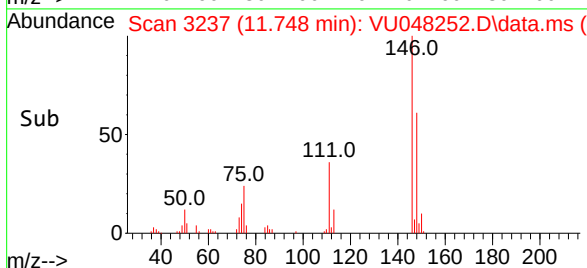
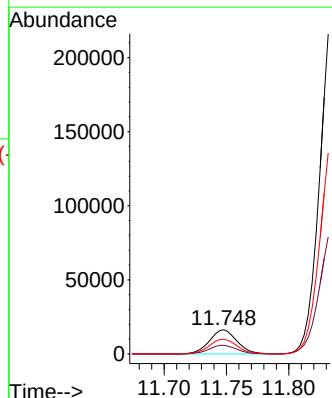
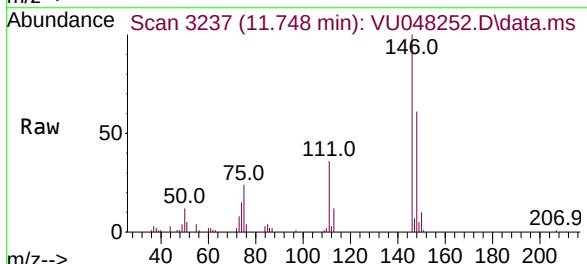
#60  
1,2,3-Trichloropropane  
Concen: 2.234 ug/L  
RT: 11.748 min Scan# 3237  
Delta R.T. 0.923 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37

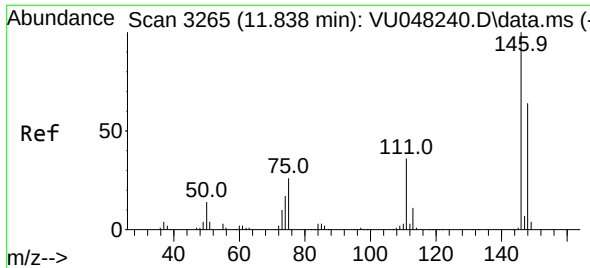
Tgt Ion: 75 Resp: 6395  
Ion Ratio Lower Upper  
75 100  
77 0.0 26.0 39.0#  
110 9.4 31.4 47.2#



#64  
1,3-Dichlorobenzene  
Concen: 5.497 ug/L  
RT: 11.748 min Scan# 3237  
Delta R.T. 0.000 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37

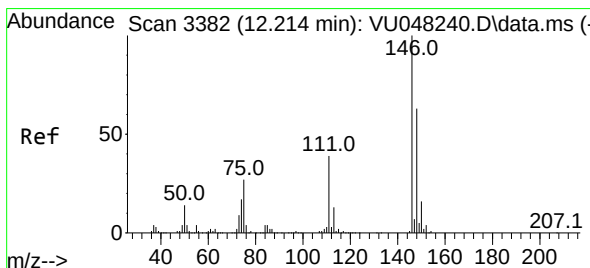
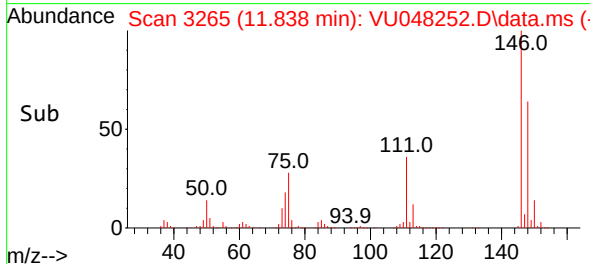
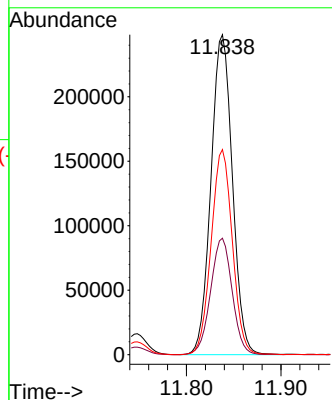
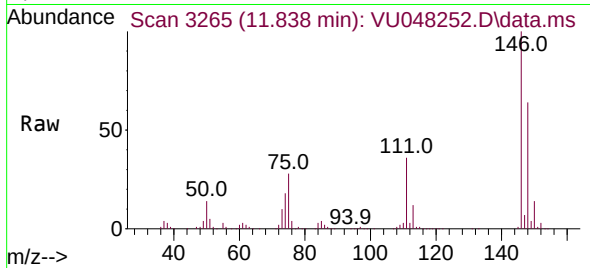
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Ion Ratio Lower Upper  
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111 36.1 26.7 49.7  
148 60.9 44.4 82.5





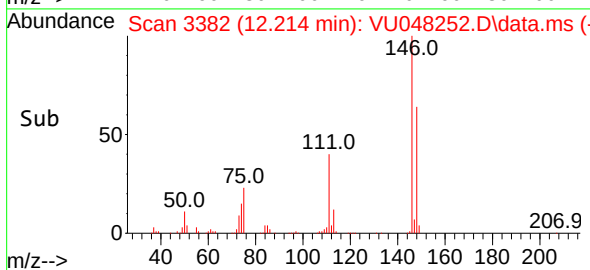
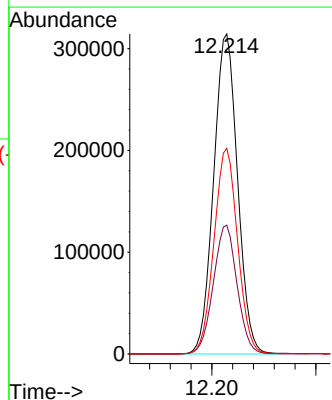
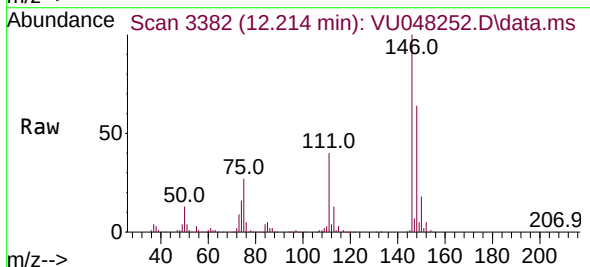
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1,4-Dichlorobenzene  
Concen: 82.806 ug/L  
RT: 11.838 min Scan# 3265  
Delta R.T. 0.000 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37

Tgt Ion:146 Resp: 391161  
Ion Ratio Lower Upper  
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111 36.4 25.3 47.1  
148 64.1 44.5 82.7

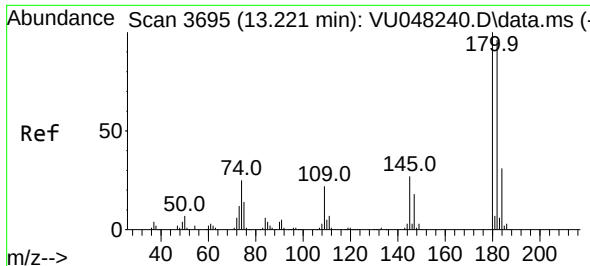


#67  
1,2-Dichlorobenzene  
Concen: 110.214 ug/L  
RT: 12.214 min Scan# 3382  
Delta R.T. 0.000 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37

Tgt Ion:146 Resp: 502939  
Ion Ratio Lower Upper  
146 100  
111 40.3 31.7 47.5  
148 64.3 51.4 77.2

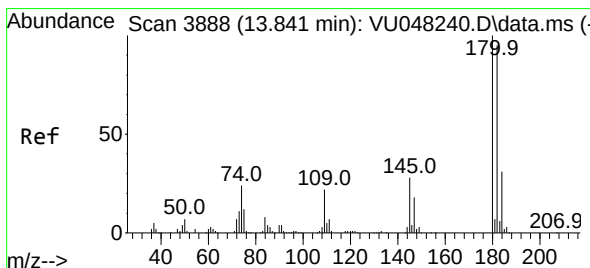
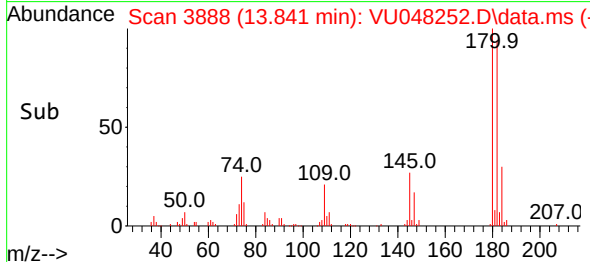
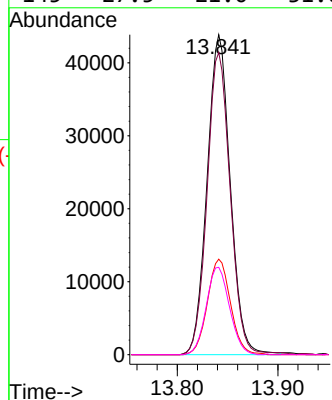
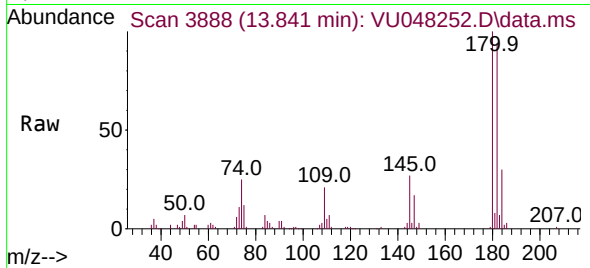






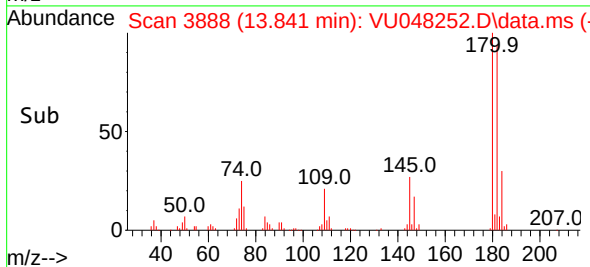
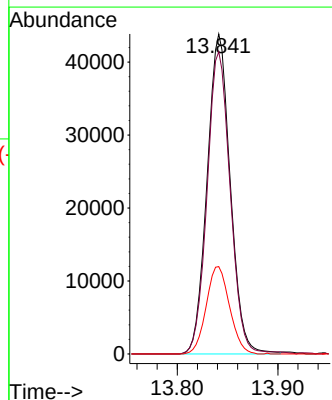
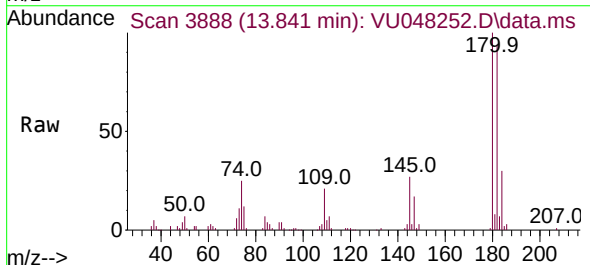
#69  
1,3,5-Trichlorobenzene  
Concen: 18.960 ug/L  
RT: 13.841 min Scan# 3888  
Delta R.T. 0.621 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37

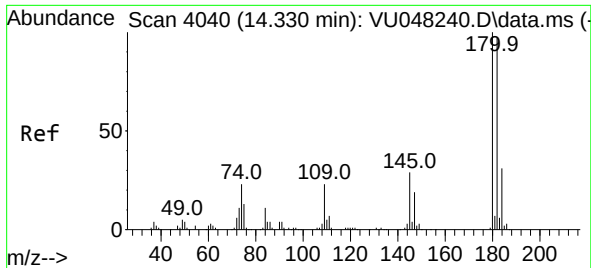
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 70227      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 93.8  | 77.0 115.6 |
| 184         | 29.7  | 24.5 36.7  |
| 145         | 27.5  | 21.0 31.6  |



#70  
1,2,4-trichlorobenzene  
Concen: 21.647 ug/L  
RT: 13.841 min Scan# 3888  
Delta R.T. 0.000 min  
Lab File: VU048252.D  
Acq: 23 Apr 2022 17:37

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 70227      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 93.8  | 76.2 114.2 |
| 145         | 27.5  | 21.8 32.8  |





#72  
 1,2,3-Trichlorobenzene  
 Concen: 3.770 ug/L  
 RT: 14.330 min Scan# 4040  
 Delta R.T. 0.000 min  
 Lab File: VU048252.D  
 Acq: 23 Apr 2022 17:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.6  | 77.4  | 116.0 |
| 145     | 28.2  | 22.8  | 34.2  |

