

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG080718\  
 Data File : FG002000.D  
 Signal(s) : FID1A.ch  
 Acq On : 07 Aug 2018 15:47  
 Sample : J4309-02  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Integration File: sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\C44-FG080618.M  
 Title :

Signal : FID1A.ch

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 2.224       | 2.175        | 2.272      | BH       | 258            | -14191       | -0.19%         | -0.004%       |
| 2         | 2.282       | 2.272        | 2.331      | PH       | -496           | -23121       | -0.31%         | -0.007%       |
| 3         | 2.340       | 2.331        | 2.359      | PH       | -732           | -13116       | -0.18%         | -0.004%       |
| 4         | 2.370       | 2.359        | 2.383      | PH       | -718           | -11187       | -0.15%         | -0.003%       |
| 5         | 2.396       | 2.383        | 2.421      | PH       | -628           | -18762       | -0.25%         | -0.005%       |
| 6         | 2.442       | 2.421        | 2.460      | PH       | -467           | -17650       | -0.24%         | -0.005%       |
| 7         | 2.478       | 2.460        | 2.493      | PH       | 423            | -7595        | -0.10%         | -0.002%       |
| 8         | 2.504       | 2.493        | 2.517      | PH       | -570           | -9551        | -0.13%         | -0.003%       |
| 9         | 2.528       | 2.517        | 2.548      | PH       | -489           | -14491       | -0.20%         | -0.004%       |
| 10        | 2.554       | 2.548        | 2.632      | PH       | -971           | -60243       | -0.81%         | -0.018%       |
| 11        | 2.658       | 2.632        | 2.720      | PH       | -1197          | -72863       | -0.98%         | -0.021%       |
| 12        | 2.751       | 2.720        | 2.790      | PH       | -1080          | -55902       | -0.75%         | -0.016%       |
| 13        | 2.808       | 2.790        | 2.819      | PH       | -1345          | -24887       | -0.34%         | -0.007%       |
| 14        | 2.834       | 2.819        | 2.898      | PH       | -1385          | -70909       | -0.96%         | -0.021%       |
| 15        | 2.928       | 2.898        | 2.939      | PH       | -1012          | -29983       | -0.40%         | -0.009%       |
| 16        | 2.955       | 2.939        | 2.981      | PH       | -961           | -29720       | -0.40%         | -0.009%       |
| 17        | 3.016       | 2.981        | 3.064      | PH       | -1280          | -71394       | -0.96%         | -0.021%       |
| 18        | 3.096       | 3.064        | 3.127      | PH       | -92            | -35218       | -0.47%         | -0.010%       |
| 19        | 3.142       | 3.127        | 3.176      | PH       | -446           | -29868       | -0.40%         | -0.009%       |
| 20        | 3.194       | 3.176        | 3.265      | PH       | -851           | -76702       | -1.03%         | -0.022%       |
| 21        | 3.286       | 3.265        | 3.301      | PH       | -1607          | -36448       | -0.49%         | -0.011%       |
| 22        | 3.308       | 3.301        | 3.322      | PH       | -1528          | -19936       | -0.27%         | -0.006%       |
| 23        | 3.343       | 3.322        | 3.430      | PH       | -1639          | -116018      | -1.56%         | -0.034%       |
| 24        | 3.450       | 3.430        | 3.464      | PH       | -1542          | -35353       | -0.48%         | -0.010%       |
| 25        | 3.481       | 3.464        | 3.541      | PH       | -630           | -68342       | -0.92%         | -0.020%       |
| 26        | 3.559       | 3.541        | 3.597      | PH       | -1520          | -58883       | -0.79%         | -0.017%       |
| 27        | 3.625       | 3.597        | 3.646      | PH       | -1639          | -53042       | -0.72%         | -0.015%       |
| 28        | 3.665       | 3.646        | 3.699      | PH       | -1741          | -57960       | -0.78%         | -0.017%       |
| 29        | 3.713       | 3.699        | 3.732      | PH       | -1792          | -38516       | -0.52%         | -0.011%       |
| 30        | 3.779       | 3.732        | 3.809      | PH       | -1640          | -84019       | -1.13%         | -0.024%       |
| 31        | 3.851       | 3.809        | 3.976      | PH       | 88433          | 1283273      | 17.30%         | 0.373%        |
| 32        | 3.986       | 3.976        | 4.031      | PH       | -194           | -11287       | -0.15%         | -0.003%       |
| 33        | 4.044       | 4.031        | 4.075      | PH       | -576           | -20600       | -0.28%         | -0.006%       |
| 34        | 4.084       | 4.075        | 4.134      | PH       | -904           | -42060       | -0.57%         | -0.012%       |
| 35        | 4.143       | 4.134        | 4.168      | PH       | -1447          | -31513       | -0.42%         | -0.009%       |
| 36        | 4.185       | 4.168        | 4.214      | PH       | -989           | -36782       | -0.50%         | -0.011%       |

|    |       |       |       |    | rteres.txt |         |        |         |
|----|-------|-------|-------|----|------------|---------|--------|---------|
| 37 | 4.236 | 4.214 | 4.258 | PH | -382       | -30638  | -0.41% | -0.009% |
| 38 | 4.273 | 4.258 | 4.301 | PH | -1476      | -40828  | -0.55% | -0.012% |
| 39 | 4.340 | 4.301 | 4.361 | PH | -1476      | -56180  | -0.76% | -0.016% |
| 40 | 4.387 | 4.361 | 4.428 | PH | 4276       | 6431    | 0.09%  | 0.002%  |
| 41 | 4.450 | 4.428 | 4.589 | PH | 11         | -146734 | -1.98% | -0.043% |
| 42 | 4.635 | 4.589 | 4.669 | PH | -1948      | -100215 | -1.35% | -0.029% |
| 43 | 4.693 | 4.669 | 4.725 | PH | -1876      | -68795  | -0.93% | -0.020% |
| 44 | 4.728 | 4.725 | 4.782 | PH | -2187      | -78572  | -1.06% | -0.023% |
| 45 | 4.825 | 4.782 | 4.856 | PH | -1102      | -86854  | -1.17% | -0.025% |
| 46 | 4.866 | 4.856 | 4.893 | PH | -2010      | -48172  | -0.65% | -0.014% |
| 47 | 4.907 | 4.893 | 4.928 | PH | -2048      | -44302  | -0.60% | -0.013% |
| 48 | 4.967 | 4.928 | 5.050 | PH | -2043      | -163167 | -2.20% | -0.047% |
| 49 | 5.058 | 5.050 | 5.075 | PH | -2263      | -34691  | -0.47% | -0.010% |
| 50 | 5.097 | 5.075 | 5.141 | PH | -507       | -67114  | -0.90% | -0.020% |
| 51 | 5.146 | 5.141 | 5.201 | PH | -2175      | -84656  | -1.14% | -0.025% |
| 52 | 5.208 | 5.201 | 5.239 | PH | -2453      | -56462  | -0.76% | -0.016% |
| 53 | 5.262 | 5.239 | 5.316 | PH | -1389      | -102666 | -1.38% | -0.030% |
| 54 | 5.341 | 5.316 | 5.363 | PH | -2046      | -64150  | -0.86% | -0.019% |
| 55 | 5.371 | 5.363 | 5.401 | PH | -2271      | -55933  | -0.75% | -0.016% |
| 56 | 5.440 | 5.401 | 5.479 | PH | -2052      | -108789 | -1.47% | -0.032% |
| 57 | 5.540 | 5.479 | 5.550 | PH | -1966      | -99173  | -1.34% | -0.029% |
| 58 | 5.560 | 5.550 | 5.581 | PH | -1977      | -39606  | -0.53% | -0.012% |
| 59 | 5.620 | 5.581 | 5.670 | PH | -2107      | -126235 | -1.70% | -0.037% |
| 60 | 5.706 | 5.670 | 5.726 | PH | -2361      | -84956  | -1.15% | -0.025% |
| 61 | 5.758 | 5.726 | 5.775 | PH | -2398      | -72910  | -0.98% | -0.021% |
| 62 | 5.805 | 5.775 | 5.885 | PH | 11524      | 53388   | 0.72%  | 0.016%  |
| 63 | 5.896 | 5.885 | 5.921 | PH | -1777      | -42698  | -0.58% | -0.012% |
| 64 | 5.959 | 5.921 | 6.005 | PH | 883        | -70633  | -0.95% | -0.021% |
| 65 | 6.036 | 6.005 | 6.064 | PH | -2054      | -79362  | -1.07% | -0.023% |
| 66 | 6.093 | 6.064 | 6.105 | PH | -1825      | -50201  | -0.68% | -0.015% |
| 67 | 6.137 | 6.105 | 6.163 | PH | -1714      | -63834  | -0.86% | -0.019% |
| 68 | 6.198 | 6.163 | 6.218 | PH | -1663      | -57463  | -0.77% | -0.017% |
| 69 | 6.235 | 6.218 | 6.341 | PH | -734       | -145577 | -1.96% | -0.042% |
| 70 | 6.380 | 6.341 | 6.442 | PH | -262       | -101057 | -1.36% | -0.029% |
| 71 | 6.457 | 6.442 | 6.480 | PH | -2121      | -52158  | -0.70% | -0.015% |
| 72 | 6.509 | 6.480 | 6.531 | PH | -2133      | -73287  | -0.99% | -0.021% |
| 73 | 6.554 | 6.531 | 6.581 | PH | -2365      | -75128  | -1.01% | -0.022% |
| 74 | 6.603 | 6.581 | 6.665 | PH | -2027      | -120300 | -1.62% | -0.035% |
| 75 | 6.677 | 6.665 | 6.701 | PH | -2560      | -56758  | -0.77% | -0.016% |
| 76 | 6.763 | 6.701 | 6.818 | PH | -1957      | -162650 | -2.19% | -0.047% |
| 77 | 6.855 | 6.818 | 6.914 | PH | 8579       | 24563   | 0.33%  | 0.007%  |
| 78 | 6.932 | 6.914 | 6.961 | PH | -821       | -43824  | -0.59% | -0.013% |
| 79 | 6.985 | 6.961 | 7.083 | PH | 9413       | -9611   | -0.13% | -0.003% |
| 80 | 7.099 | 7.083 | 7.121 | PH | -2195      | -53140  | -0.72% | -0.015% |
| 81 | 7.155 | 7.121 | 7.215 | PH | -1019      | -123570 | -1.67% | -0.036% |
| 82 | 7.225 | 7.215 | 7.251 | PH | -2462      | -56697  | -0.76% | -0.016% |
| 83 | 7.322 | 7.251 | 7.350 | PH | -2232      | -148428 | -2.00% | -0.043% |
| 84 | 7.432 | 7.350 | 7.497 | PH | -1563      | -213905 | -2.88% | -0.062% |
| 85 | 7.511 | 7.497 | 7.537 | PH | -2509      | -63970  | -0.86% | -0.019% |
| 86 | 7.581 | 7.537 | 7.653 | PH | 1024       | -89188  | -1.20% | -0.026% |
| 87 | 7.674 | 7.653 | 7.700 | PH | -1999      | -61309  | -0.83% | -0.018% |
| 88 | 7.735 | 7.700 | 7.756 | PH | -82        | -40803  | -0.55% | -0.012% |
| 89 | 7.764 | 7.756 | 7.792 | PH | -1227      | -33248  | -0.45% | -0.010% |

|     |        |        |        |    |            |         |        |         |
|-----|--------|--------|--------|----|------------|---------|--------|---------|
|     |        |        |        |    | rteres.txt |         |        |         |
| 90  | 7.842  | 7.792  | 7.895  | PH | 3060       | -21974  | -0.30% | -0.006% |
| 91  | 7.944  | 7.895  | 7.959  | PH | 12580      | 99072   | 1.34%  | 0.029%  |
| 92  | 7.971  | 7.959  | 7.998  | HH | 5517       | 58450   | 0.79%  | 0.017%  |
| 93  | 8.021  | 7.998  | 8.053  | PH | 2348       | 2607    | 0.04%  | 0.001%  |
| 94  | 8.084  | 8.053  | 8.109  | PH | 176667     | 1848139 | 24.92% | 0.537%  |
| 95  | 8.123  | 8.109  | 8.195  | HH | 21731      | 283515  | 3.82%  | 0.082%  |
| 96  | 8.216  | 8.195  | 8.241  | PH | 1644       | -9833   | -0.13% | -0.003% |
| 97  | 8.260  | 8.241  | 8.328  | PH | -916       | -96050  | -1.30% | -0.028% |
| 98  | 8.374  | 8.328  | 8.386  | PH | -1305      | -63784  | -0.86% | -0.019% |
| 99  | 8.417  | 8.386  | 8.453  | PH | 27105      | 282588  | 3.81%  | 0.082%  |
| 100 | 8.472  | 8.453  | 8.528  | PH | 3182       | 26389   | 0.36%  | 0.008%  |
| 101 | 8.549  | 8.528  | 8.594  | PH | 389        | -28168  | -0.38% | -0.008% |
| 102 | 8.610  | 8.594  | 8.631  | PH | -1150      | -33766  | -0.46% | -0.010% |
| 103 | 8.660  | 8.631  | 8.674  | PH | 3831       | 21237   | 0.29%  | 0.006%  |
| 104 | 8.694  | 8.674  | 8.725  | PH | 20069      | 234882  | 3.17%  | 0.068%  |
| 105 | 8.743  | 8.725  | 8.775  | HH | 1559       | 24920   | 0.34%  | 0.007%  |
| 106 | 8.786  | 8.775  | 8.810  | PH | 54         | -8841   | -0.12% | -0.003% |
| 107 | 8.838  | 8.810  | 8.857  | PH | 4652       | 53769   | 0.72%  | 0.016%  |
| 108 | 8.872  | 8.857  | 8.955  | HH | 3824       | -18824  | -0.25% | -0.005% |
| 109 | 8.985  | 8.955  | 9.004  | PH | 3979       | 14809   | 0.20%  | 0.004%  |
| 110 | 9.020  | 9.004  | 9.052  | PH | 2707       | 6223    | 0.08%  | 0.002%  |
| 111 | 9.072  | 9.052  | 9.085  | PH | -270       | -17596  | -0.24% | -0.005% |
| 112 | 9.120  | 9.085  | 9.147  | PH | 3856       | 32290   | 0.44%  | 0.009%  |
| 113 | 9.163  | 9.147  | 9.178  | PH | -340       | -13383  | -0.18% | -0.004% |
| 114 | 9.202  | 9.178  | 9.262  | PH | 39975      | 519678  | 7.01%  | 0.151%  |
| 115 | 9.281  | 9.262  | 9.299  | HH | 4693       | 52280   | 0.70%  | 0.015%  |
| 116 | 9.351  | 9.299  | 9.375  | HH | 9064       | 162351  | 2.19%  | 0.047%  |
| 117 | 9.411  | 9.375  | 9.435  | HH | 4173       | 63337   | 0.85%  | 0.018%  |
| 118 | 9.450  | 9.435  | 9.501  | PH | 765        | 5205    | 0.07%  | 0.002%  |
| 119 | 9.526  | 9.501  | 9.566  | PH | 11789      | 156302  | 2.11%  | 0.045%  |
| 120 | 9.578  | 9.566  | 9.595  | HH | 1410       | 15613   | 0.21%  | 0.005%  |
| 121 | 9.626  | 9.595  | 9.670  | HH | 17731      | 276091  | 3.72%  | 0.080%  |
| 122 | 9.687  | 9.670  | 9.709  | HH | 3244       | 49506   | 0.67%  | 0.014%  |
| 123 | 9.720  | 9.709  | 9.750  | HH | 1338       | 14118   | 0.19%  | 0.004%  |
| 124 | 9.789  | 9.750  | 9.868  | PH | 869        | -21837  | -0.29% | -0.006% |
| 125 | 9.893  | 9.868  | 9.915  | PH | -626       | -21599  | -0.29% | -0.006% |
| 126 | 9.948  | 9.915  | 9.979  | PH | 1309       | 12936   | 0.17%  | 0.004%  |
| 127 | 10.005 | 9.979  | 10.029 | HH | 2175       | 38158   | 0.51%  | 0.011%  |
| 128 | 10.085 | 10.029 | 10.109 | HH | 11333      | 229447  | 3.09%  | 0.067%  |
| 129 | 10.126 | 10.109 | 10.169 | HH | 5901       | 104634  | 1.41%  | 0.030%  |
| 130 | 10.200 | 10.169 | 10.240 | HH | 7997       | 153086  | 2.06%  | 0.044%  |
| 131 | 10.264 | 10.240 | 10.305 | HH | 19752      | 346163  | 4.67%  | 0.101%  |
| 132 | 10.317 | 10.305 | 10.340 | HH | 3527       | 70442   | 0.95%  | 0.020%  |
| 133 | 10.369 | 10.340 | 10.383 | HH | 11547      | 200078  | 2.70%  | 0.058%  |
| 134 | 10.406 | 10.383 | 10.448 | HH | 21020      | 427855  | 5.77%  | 0.124%  |
| 135 | 10.470 | 10.448 | 10.486 | HH | 3681       | 75827   | 1.02%  | 0.022%  |
| 136 | 10.504 | 10.486 | 10.522 | HH | 8220       | 105943  | 1.43%  | 0.031%  |
| 137 | 10.535 | 10.522 | 10.552 | HH | 3806       | 57027   | 0.77%  | 0.017%  |
| 138 | 10.601 | 10.552 | 10.652 | HH | 463478     | 5214440 | 70.31% | 1.515%  |
| 139 | 10.676 | 10.652 | 10.718 | HH | 108502     | 1366409 | 18.42% | 0.397%  |
| 140 | 10.732 | 10.718 | 10.760 | HH | 6299       | 124223  | 1.67%  | 0.036%  |
| 141 | 10.771 | 10.760 | 10.795 | HH | 3765       | 69901   | 0.94%  | 0.020%  |

|     |        |        |        |    | rteres.txt |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
| 142 | 10.809 | 10.795 | 10.840 | HH | 2819       | 59257   | 0.80%  | 0.017% |
| 143 | 10.870 | 10.840 | 10.884 | HH | 6194       | 101066  | 1.36%  | 0.029% |
| 144 | 10.906 | 10.884 | 10.959 | HH | 28817      | 494422  | 6.67%  | 0.144% |
| 145 | 10.967 | 10.959 | 10.981 | HH | 3766       | 45028   | 0.61%  | 0.013% |
| 146 | 11.001 | 10.981 | 11.019 | HH | 4699       | 91148   | 1.23%  | 0.026% |
| 147 | 11.058 | 11.019 | 11.077 | HH | 6801       | 162494  | 2.19%  | 0.047% |
| 148 | 11.099 | 11.077 | 11.107 | HH | 5404       | 81521   | 1.10%  | 0.024% |
| 149 | 11.135 | 11.107 | 11.173 | HH | 18158      | 368662  | 4.97%  | 0.107% |
| 150 | 11.204 | 11.173 | 11.228 | HH | 8654       | 184313  | 2.49%  | 0.054% |
| 151 | 11.253 | 11.228 | 11.279 | HH | 9843       | 196491  | 2.65%  | 0.057% |
| 152 | 11.303 | 11.279 | 11.346 | HH | 8972       | 201815  | 2.72%  | 0.059% |
| 153 | 11.364 | 11.346 | 11.375 | HH | 5133       | 74754   | 1.01%  | 0.022% |
| 154 | 11.402 | 11.375 | 11.417 | HH | 56266      | 669609  | 9.03%  | 0.195% |
| 155 | 11.434 | 11.417 | 11.477 | HH | 66409      | 915582  | 12.34% | 0.266% |
| 156 | 11.513 | 11.477 | 11.534 | HH | 61622      | 1002471 | 13.52% | 0.291% |
| 157 | 11.551 | 11.534 | 11.564 | HH | 33427      | 421107  | 5.68%  | 0.122% |
| 158 | 11.581 | 11.564 | 11.629 | HH | 47058      | 740190  | 9.98%  | 0.215% |
| 159 | 11.648 | 11.629 | 11.658 | HH | 5184       | 74722   | 1.01%  | 0.022% |
| 160 | 11.684 | 11.658 | 11.710 | HH | 8124       | 193660  | 2.61%  | 0.056% |
| 161 | 11.731 | 11.710 | 11.757 | HH | 8764       | 188530  | 2.54%  | 0.055% |
| 162 | 11.781 | 11.757 | 11.849 | HH | 25572      | 619046  | 8.35%  | 0.180% |
| 163 | 11.875 | 11.849 | 11.920 | HH | 36391      | 597667  | 8.06%  | 0.174% |
| 164 | 11.937 | 11.920 | 11.973 | HH | 6445       | 174074  | 2.35%  | 0.051% |
| 165 | 11.993 | 11.973 | 12.004 | HH | 6674       | 103627  | 1.40%  | 0.030% |
| 166 | 12.020 | 12.004 | 12.047 | HH | 8272       | 160205  | 2.16%  | 0.047% |
| 167 | 12.059 | 12.047 | 12.063 | HH | 4927       | 48758   | 0.66%  | 0.014% |
| 168 | 12.074 | 12.063 | 12.088 | HH | 5126       | 70943   | 0.96%  | 0.021% |
| 169 | 12.125 | 12.088 | 12.138 | HH | 11948      | 244157  | 3.29%  | 0.071% |
| 170 | 12.147 | 12.138 | 12.170 | HH | 10710      | 165991  | 2.24%  | 0.048% |
| 171 | 12.194 | 12.170 | 12.237 | HH | 16119      | 392891  | 5.30%  | 0.114% |
| 172 | 12.267 | 12.237 | 12.284 | HH | 24555      | 399783  | 5.39%  | 0.116% |
| 173 | 12.302 | 12.284 | 12.322 | HH | 34048      | 503859  | 6.79%  | 0.146% |
| 174 | 12.338 | 12.322 | 12.352 | HH | 18114      | 276210  | 3.72%  | 0.080% |
| 175 | 12.366 | 12.352 | 12.388 | HH | 21415      | 343424  | 4.63%  | 0.100% |
| 176 | 12.420 | 12.388 | 12.474 | HH | 539834     | 6539500 | 88.17% | 1.900% |
| 177 | 12.496 | 12.474 | 12.535 | HH | 9344       | 259526  | 3.50%  | 0.075% |
| 178 | 12.603 | 12.535 | 12.623 | HH | 24358      | 743183  | 10.02% | 0.216% |
| 179 | 12.647 | 12.623 | 12.683 | HH | 16193      | 452260  | 6.10%  | 0.131% |
| 180 | 12.716 | 12.683 | 12.749 | HH | 412812     | 5010978 | 67.56% | 1.456% |
| 181 | 12.772 | 12.749 | 12.787 | HH | 37347      | 524566  | 7.07%  | 0.152% |
| 182 | 12.804 | 12.787 | 12.836 | HH | 55548      | 822416  | 11.09% | 0.239% |
| 183 | 12.849 | 12.836 | 12.867 | HH | 9462       | 156321  | 2.11%  | 0.045% |
| 184 | 12.892 | 12.867 | 12.909 | HH | 22221      | 354816  | 4.78%  | 0.103% |
| 185 | 12.927 | 12.909 | 12.955 | HH | 18494      | 352442  | 4.75%  | 0.102% |
| 186 | 12.987 | 12.955 | 13.026 | HH | 33654      | 666598  | 8.99%  | 0.194% |
| 187 | 13.048 | 13.026 | 13.060 | HH | 11868      | 206996  | 2.79%  | 0.060% |
| 188 | 13.071 | 13.060 | 13.092 | HH | 11415      | 177634  | 2.40%  | 0.052% |
| 189 | 13.115 | 13.092 | 13.149 | HH | 19303      | 417381  | 5.63%  | 0.121% |
| 190 | 13.177 | 13.149 | 13.236 | HH | 35520      | 806174  | 10.87% | 0.234% |
| 191 | 13.307 | 13.236 | 13.349 | HH | 62469      | 1459465 | 19.68% | 0.424% |
| 192 | 13.371 | 13.349 | 13.391 | HH | 14692      | 284995  | 3.84%  | 0.083% |
| 193 | 13.414 | 13.391 | 13.433 | HH | 33890      | 515939  | 6.96%  | 0.150% |
| 194 | 13.452 | 13.433 | 13.478 | HH | 36669      | 608043  | 8.20%  | 0.177% |

|            |        |        |        |    |        |         |         |        |
|------------|--------|--------|--------|----|--------|---------|---------|--------|
| rteres.txt |        |        |        |    |        |         |         |        |
| 195        | 13.487 | 13.478 | 13.505 | HH | 13638  | 195607  | 2.64%   | 0.057% |
| 196        | 13.579 | 13.505 | 13.603 | HH | 34957  | 1143213 | 15.41%  | 0.332% |
| 197        | 13.623 | 13.603 | 13.672 | HH | 29326  | 686194  | 9.25%   | 0.199% |
| 198        | 13.712 | 13.672 | 13.728 | HH | 14033  | 384439  | 5.18%   | 0.112% |
| 199        | 13.738 | 13.728 | 13.765 | HH | 12317  | 245637  | 3.31%   | 0.071% |
| 200        | 13.783 | 13.765 | 13.802 | HH | 10486  | 220180  | 2.97%   | 0.064% |
| 201        | 13.811 | 13.802 | 13.828 | HH | 10182  | 148936  | 2.01%   | 0.043% |
| 202        | 13.842 | 13.828 | 13.876 | HH | 9382   | 251747  | 3.39%   | 0.073% |
| 203        | 13.897 | 13.876 | 13.938 | HH | 11276  | 367083  | 4.95%   | 0.107% |
| 204        | 13.971 | 13.938 | 13.986 | HH | 16933  | 378736  | 5.11%   | 0.110% |
| 205        | 14.015 | 13.986 | 14.029 | HH | 17045  | 413435  | 5.57%   | 0.120% |
| 206        | 14.054 | 14.029 | 14.099 | HH | 42443  | 899392  | 12.13%  | 0.261% |
| 207        | 14.128 | 14.099 | 14.196 | HH | 17865  | 829350  | 11.18%  | 0.241% |
| 208        | 14.221 | 14.196 | 14.250 | HH | 46397  | 848701  | 11.44%  | 0.247% |
| 209        | 14.280 | 14.250 | 14.310 | HH | 59425  | 1195921 | 16.12%  | 0.347% |
| 210        | 14.332 | 14.310 | 14.340 | HH | 27767  | 429315  | 5.79%   | 0.125% |
| 211        | 14.360 | 14.340 | 14.392 | HH | 49127  | 922122  | 12.43%  | 0.268% |
| 212        | 14.404 | 14.392 | 14.418 | HH | 14288  | 208627  | 2.81%   | 0.061% |
| 213        | 14.467 | 14.418 | 14.534 | HH | 484322 | 7416861 | 100.00% | 2.155% |
| 214        | 14.555 | 14.534 | 14.568 | HH | 25315  | 393173  | 5.30%   | 0.114% |
| 215        | 14.596 | 14.568 | 14.616 | HH | 218881 | 3101518 | 41.82%  | 0.901% |
| 216        | 14.637 | 14.616 | 14.685 | HH | 213403 | 3229811 | 43.55%  | 0.938% |
| 217        | 14.710 | 14.685 | 14.731 | HH | 25209  | 539544  | 7.27%   | 0.157% |
| 218        | 14.756 | 14.731 | 14.816 | HH | 36692  | 1217346 | 16.41%  | 0.354% |
| 219        | 14.855 | 14.816 | 14.885 | HH | 26900  | 778403  | 10.50%  | 0.226% |
| 220        | 14.912 | 14.885 | 14.928 | HH | 32657  | 611218  | 8.24%   | 0.178% |
| 221        | 14.941 | 14.928 | 14.991 | HH | 27900  | 820964  | 11.07%  | 0.239% |
| 222        | 15.052 | 14.991 | 15.125 | HH | 174196 | 3986341 | 53.75%  | 1.158% |
| 223        | 15.149 | 15.125 | 15.158 | HH | 19224  | 349865  | 4.72%   | 0.102% |
| 224        | 15.187 | 15.158 | 15.213 | HH | 27125  | 732818  | 9.88%   | 0.213% |
| 225        | 15.246 | 15.213 | 15.254 | HH | 43763  | 796160  | 10.73%  | 0.231% |
| 226        | 15.270 | 15.254 | 15.292 | HH | 61256  | 989828  | 13.35%  | 0.288% |
| 227        | 15.309 | 15.292 | 15.342 | HH | 33558  | 759598  | 10.24%  | 0.221% |
| 228        | 15.357 | 15.342 | 15.388 | HH | 23211  | 590619  | 7.96%   | 0.172% |
| 229        | 15.431 | 15.388 | 15.480 | HH | 34747  | 1475354 | 19.89%  | 0.429% |
| 230        | 15.506 | 15.480 | 15.538 | HH | 26050  | 754562  | 10.17%  | 0.219% |
| 231        | 15.594 | 15.538 | 15.632 | HH | 26595  | 1178771 | 15.89%  | 0.342% |
| 232        | 15.684 | 15.632 | 15.721 | HH | 31821  | 1291519 | 17.41%  | 0.375% |
| 233        | 15.746 | 15.721 | 15.790 | HH | 22215  | 818529  | 11.04%  | 0.238% |
| 234        | 15.812 | 15.790 | 15.845 | HH | 19133  | 613082  | 8.27%   | 0.178% |
| 235        | 15.871 | 15.845 | 15.891 | HH | 23240  | 580378  | 7.83%   | 0.169% |
| 236        | 15.911 | 15.891 | 15.931 | HH | 30264  | 602633  | 8.13%   | 0.175% |
| 237        | 15.952 | 15.931 | 16.000 | HH | 29811  | 1041716 | 14.05%  | 0.303% |
| 238        | 16.028 | 16.000 | 16.043 | HH | 25214  | 616750  | 8.32%   | 0.179% |
| 239        | 16.071 | 16.043 | 16.097 | HH | 56692  | 1220376 | 16.45%  | 0.355% |
| 240        | 16.115 | 16.097 | 16.127 | HH | 32511  | 550715  | 7.43%   | 0.160% |
| 241        | 16.159 | 16.127 | 16.216 | HH | 225067 | 5084061 | 68.55%  | 1.477% |
| 242        | 16.236 | 16.216 | 16.264 | HH | 33311  | 829515  | 11.18%  | 0.241% |
| 243        | 16.291 | 16.264 | 16.315 | HH | 59764  | 1191182 | 16.06%  | 0.346% |
| 244        | 16.324 | 16.315 | 16.349 | HH | 31289  | 592427  | 7.99%   | 0.172% |
| 245        | 16.359 | 16.349 | 16.378 | HH | 25698  | 439136  | 5.92%   | 0.128% |
| 246        | 16.446 | 16.378 | 16.455 | HH | 47905  | 1495625 | 20.17%  | 0.435% |

| rteres.txt |        |        |        |    |        |         |        |        |
|------------|--------|--------|--------|----|--------|---------|--------|--------|
| 247        | 16.479 | 16.455 | 16.509 | HH | 137273 | 2408036 | 32.47% | 0.700% |
| 248        | 16.539 | 16.509 | 16.586 | HH | 183640 | 3383233 | 45.62% | 0.983% |
| 249        | 16.597 | 16.586 | 16.607 | HH | 28851  | 348865  | 4.70%  | 0.101% |
| 250        | 16.640 | 16.607 | 16.665 | HH | 78356  | 1682407 | 22.68% | 0.489% |
| 251        | 16.711 | 16.665 | 16.745 | HH | 61016  | 2058648 | 27.76% | 0.598% |
| 252        | 16.783 | 16.745 | 16.825 | HH | 38997  | 1689724 | 22.78% | 0.491% |
| 253        | 16.845 | 16.825 | 16.866 | HH | 33379  | 791934  | 10.68% | 0.230% |
| 254        | 16.905 | 16.866 | 16.981 | HH | 42910  | 2557986 | 34.49% | 0.743% |
| 255        | 17.013 | 16.981 | 17.056 | HH | 73148  | 2263119 | 30.51% | 0.658% |
| 256        | 17.085 | 17.056 | 17.112 | HH | 60408  | 1590632 | 21.45% | 0.462% |
| 257        | 17.132 | 17.112 | 17.144 | HH | 40011  | 724449  | 9.77%  | 0.210% |
| 258        | 17.159 | 17.144 | 17.180 | HH | 40493  | 855959  | 11.54% | 0.249% |
| 259        | 17.200 | 17.180 | 17.221 | HH | 43639  | 988655  | 13.33% | 0.287% |
| 260        | 17.239 | 17.221 | 17.281 | HH | 39077  | 1300578 | 17.54% | 0.378% |
| 261        | 17.318 | 17.281 | 17.345 | HH | 35898  | 1330373 | 17.94% | 0.387% |
| 262        | 17.358 | 17.345 | 17.378 | HH | 35653  | 697064  | 9.40%  | 0.203% |
| 263        | 17.387 | 17.378 | 17.402 | HH | 34634  | 499568  | 6.74%  | 0.145% |
| 264        | 17.413 | 17.402 | 17.427 | HH | 34418  | 502731  | 6.78%  | 0.146% |
| 265        | 17.487 | 17.427 | 17.501 | HH | 44505  | 1731921 | 23.35% | 0.503% |
| 266        | 17.524 | 17.501 | 17.565 | HH | 54462  | 1757189 | 23.69% | 0.511% |
| 267        | 17.617 | 17.565 | 17.654 | HH | 68436  | 2554833 | 34.45% | 0.742% |
| 268        | 17.706 | 17.654 | 17.728 | HH | 52118  | 2083376 | 28.09% | 0.605% |
| 269        | 17.737 | 17.728 | 17.781 | HH | 49252  | 1417764 | 19.12% | 0.412% |
| 270        | 17.825 | 17.781 | 17.861 | HH | 75574  | 2584168 | 34.84% | 0.751% |
| 271        | 17.917 | 17.861 | 17.936 | HH | 143145 | 4577922 | 61.72% | 1.330% |
| 272        | 17.949 | 17.936 | 17.984 | HH | 98324  | 2083751 | 28.09% | 0.605% |
| 273        | 18.002 | 17.984 | 18.022 | HH | 53594  | 1146968 | 15.46% | 0.333% |
| 274        | 18.048 | 18.022 | 18.066 | HH | 74582  | 1568718 | 21.15% | 0.456% |
| 275        | 18.080 | 18.066 | 18.101 | HH | 63927  | 1198786 | 16.16% | 0.348% |
| 276        | 18.112 | 18.101 | 18.139 | HH | 51307  | 1090668 | 14.71% | 0.317% |
| 277        | 18.172 | 18.139 | 18.208 | HH | 122141 | 2877354 | 38.79% | 0.836% |
| 278        | 18.258 | 18.208 | 18.281 | HH | 50713  | 2095232 | 28.25% | 0.609% |
| 279        | 18.311 | 18.281 | 18.334 | HH | 73926  | 1928597 | 26.00% | 0.560% |
| 280        | 18.353 | 18.334 | 18.395 | HH | 65460  | 2071296 | 27.93% | 0.602% |
| 281        | 18.415 | 18.395 | 18.431 | HH | 47754  | 1000496 | 13.49% | 0.291% |
| 282        | 18.458 | 18.431 | 18.513 | HH | 99183  | 3220390 | 43.42% | 0.936% |
| 283        | 18.532 | 18.513 | 18.557 | HH | 54944  | 1366421 | 18.42% | 0.397% |
| 284        | 18.566 | 18.557 | 18.587 | HH | 47446  | 830880  | 11.20% | 0.241% |
| 285        | 18.611 | 18.587 | 18.632 | HH | 54073  | 1341013 | 18.08% | 0.390% |
| 286        | 18.657 | 18.632 | 18.674 | HH | 50762  | 1252217 | 16.88% | 0.364% |
| 287        | 18.720 | 18.674 | 18.745 | HH | 110211 | 3401088 | 45.86% | 0.988% |
| 288        | 18.756 | 18.745 | 18.801 | HH | 78395  | 2189505 | 29.52% | 0.636% |
| 289        | 18.821 | 18.801 | 18.840 | HH | 55982  | 1263212 | 17.03% | 0.367% |
| 290        | 18.867 | 18.840 | 18.905 | HH | 59850  | 2160946 | 29.14% | 0.628% |
| 291        | 18.915 | 18.905 | 18.931 | HH | 51377  | 816752  | 11.01% | 0.237% |
| 292        | 18.957 | 18.931 | 19.001 | HH | 57368  | 2189394 | 29.52% | 0.636% |
| 293        | 19.034 | 19.001 | 19.058 | HH | 52495  | 1727913 | 23.30% | 0.502% |
| 294        | 19.066 | 19.058 | 19.088 | HH | 50546  | 908006  | 12.24% | 0.264% |
| 295        | 19.140 | 19.088 | 19.165 | HH | 55737  | 2396618 | 32.31% | 0.696% |
| 296        | 19.194 | 19.165 | 19.218 | HH | 75413  | 1997029 | 26.93% | 0.580% |
| 297        | 19.253 | 19.218 | 19.283 | HH | 163089 | 3759566 | 50.69% | 1.092% |
| 298        | 19.337 | 19.283 | 19.373 | HH | 83215  | 3525829 | 47.54% | 1.024% |
| 299        | 19.408 | 19.373 | 19.446 | HH | 88543  | 3026369 | 40.80% | 0.879% |

|     |        |        |        |    |            |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
|     |        |        |        |    | rteres.txt |         |        |        |
| 300 | 19.498 | 19.446 | 19.587 | HH | 161807     | 7091194 | 95.61% | 2.060% |
| 301 | 19.627 | 19.587 | 19.674 | HH | 62220      | 2937942 | 39.61% | 0.854% |
| 302 | 19.720 | 19.674 | 19.770 | HH | 96302      | 4040291 | 54.47% | 1.174% |
| 303 | 19.791 | 19.770 | 19.813 | HH | 68809      | 1645935 | 22.19% | 0.478% |
| 304 | 19.831 | 19.813 | 19.860 | HH | 63757      | 1736641 | 23.41% | 0.505% |
| 305 | 19.878 | 19.860 | 19.907 | HH | 61250      | 1689052 | 22.77% | 0.491% |
| 306 | 19.928 | 19.907 | 19.958 | HH | 59098      | 1762924 | 23.77% | 0.512% |
| 307 | 20.000 | 19.958 | 20.022 | HH | 69251      | 2366862 | 31.91% | 0.688% |
| 308 | 20.038 | 20.022 | 20.061 | HH | 64969      | 1455197 | 19.62% | 0.423% |
| 309 | 20.102 | 20.061 | 20.158 | HH | 59325      | 3379828 | 45.57% | 0.982% |
| 310 | 20.185 | 20.158 | 20.194 | HH | 59756      | 1285041 | 17.33% | 0.373% |
| 311 | 20.244 | 20.194 | 20.279 | HH | 62898      | 3106182 | 41.88% | 0.903% |
| 312 | 20.284 | 20.279 | 20.298 | HH | 60802      | 691985  | 9.33%  | 0.201% |
| 313 | 20.306 | 20.298 | 20.350 | HH | 60755      | 1876714 | 25.30% | 0.545% |
| 314 | 20.389 | 20.350 | 20.441 | HH | 65865      | 3440193 | 46.38% | 1.000% |
| 315 | 20.479 | 20.441 | 20.509 | HH | 62383      | 2465684 | 33.24% | 0.716% |
| 316 | 20.581 | 20.509 | 20.622 | HH | 65588      | 4183326 | 56.40% | 1.215% |
| 317 | 20.632 | 20.622 | 20.654 | HH | 59993      | 1144931 | 15.44% | 0.333% |
| 318 | 20.666 | 20.654 | 20.685 | HH | 59606      | 1094535 | 14.76% | 0.318% |
| 319 | 20.735 | 20.685 | 20.778 | HH | 64102      | 3453603 | 46.56% | 1.003% |
| 320 | 20.807 | 20.778 | 20.854 | HH | 62624      | 2772350 | 37.38% | 0.806% |
| 321 | 20.913 | 20.854 | 20.942 | HH | 62535      | 3189652 | 43.01% | 0.927% |
| 322 | 20.953 | 20.942 | 20.961 | HH | 59628      | 693953  | 9.36%  | 0.202% |
| 323 | 20.993 | 20.961 | 21.034 | HH | 64294      | 2716943 | 36.63% | 0.789% |
| 324 | 21.089 | 21.034 | 21.145 | HH | 67940      | 4233708 | 57.08% | 1.230% |
| 325 | 21.162 | 21.145 | 21.195 | HH | 60107      | 1775061 | 23.93% | 0.516% |
| 326 | 21.202 | 21.195 | 21.231 | HH | 58500      | 1274749 | 17.19% | 0.370% |
| 327 | 21.249 | 21.231 | 21.268 | HH | 58156      | 1274568 | 17.18% | 0.370% |
| 328 | 21.294 | 21.268 | 21.341 | HH | 58956      | 2529134 | 34.10% | 0.735% |
| 329 | 21.376 | 21.341 | 21.411 | HH | 61239      | 2469116 | 33.29% | 0.717% |
| 330 | 21.447 | 21.411 | 21.529 | HH | 64917      | 4218926 | 56.88% | 1.226% |
| 331 | 21.542 | 21.529 | 21.665 | HH | 56916      | 4485185 | 60.47% | 1.303% |
| 332 | 21.700 | 21.665 | 21.745 | HH | 53593      | 2549177 | 34.37% | 0.741% |
| 333 | 21.758 | 21.745 | 21.771 | HH | 52806      | 828188  | 11.17% | 0.241% |
| 334 | 21.800 | 21.771 | 21.851 | HH | 52767      | 2514908 | 33.91% | 0.731% |
| 335 | 21.889 | 21.851 | 21.948 | HH | 52842      | 3026433 | 40.80% | 0.879% |
| 336 | 21.974 | 21.948 | 21.995 | HH | 52245      | 1464165 | 19.74% | 0.425% |
| 337 | 22.013 | 21.995 | 22.022 | HH | 52476      | 857431  | 11.56% | 0.249% |
| 338 | 22.031 | 22.022 | 22.057 | HH | 52247      | 1077006 | 14.52% | 0.313% |
| 339 | 22.092 | 22.057 | 22.107 | HH | 52389      | 1560950 | 21.05% | 0.454% |
| 340 | 22.128 | 22.107 | 22.198 | HH | 53017      | 2829323 | 38.15% | 0.822% |
| 341 | 22.213 | 22.198 | 22.248 | HH | 50884      | 1500413 | 20.23% | 0.436% |
| 342 | 22.255 | 22.248 | 22.271 | HH | 49564      | 690720  | 9.31%  | 0.201% |
| 343 | 22.281 | 22.271 | 22.326 | HH | 49234      | 1596367 | 21.52% | 0.464% |
| 344 | 22.336 | 22.326 | 22.340 | HH | 48702      | 414616  | 5.59%  | 0.120% |
| 345 | 22.350 | 22.340 | 22.397 | HH | 48922      | 1663189 | 22.42% | 0.483% |
| 346 | 22.409 | 22.397 | 22.415 | HH | 48970      | 510471  | 6.88%  | 0.148% |
| 347 | 22.443 | 22.415 | 22.470 | HH | 49040      | 1626395 | 21.93% | 0.473% |
| 348 | 22.509 | 22.470 | 22.577 | HH | 49686      | 3153514 | 42.52% | 0.916% |
| 349 | 22.592 | 22.577 | 22.647 | HH | 48577      | 2015214 | 27.17% | 0.586% |
| 350 | 22.808 | 22.647 | 22.865 | HH | 49188      | 6329297 | 85.34% | 1.839% |
| 351 | 22.871 | 22.865 | 22.881 | HH | 47901      | 468316  | 6.31%  | 0.136% |

|     |        |        |        |    | rteres.txt |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
| 352 | 22.935 | 22.881 | 22.944 | HH | 48739      | 1833196 | 24.72% | 0.533% |
| 353 | 22.966 | 22.944 | 23.069 | HH | 49114      | 3569713 | 48.13% | 1.037% |
| 354 | 23.153 | 23.069 | 23.228 | HH | 47251      | 4448131 | 59.97% | 1.292% |
| 355 | 23.324 | 23.228 | 23.337 | HH | 46340      | 2981718 | 40.20% | 0.866% |
| 356 | 23.364 | 23.337 | 23.401 | HH | 46139      | 1761903 | 23.76% | 0.512% |
| 357 | 23.420 | 23.401 | 23.435 | HH | 45743      | 908731  | 12.25% | 0.264% |
| 358 | 23.454 | 23.435 | 23.467 | HH | 45572      | 871737  | 11.75% | 0.253% |
| 359 | 23.549 | 23.467 | 23.703 | HH | 48273      | 6520885 | 87.92% | 1.895% |
| 360 | 23.715 | 23.703 | 23.723 | HH | 44723      | 521111  | 7.03%  | 0.151% |
| 361 | 23.739 | 23.723 | 23.813 | HH | 44928      | 2399809 | 32.36% | 0.697% |
| 362 | 23.827 | 23.813 | 23.845 | HH | 44033      | 819544  | 11.05% | 0.238% |
| 363 | 23.852 | 23.845 | 23.870 | HH | 43581      | 650104  | 8.77%  | 0.189% |
| 364 | 23.878 | 23.870 | 23.888 | HH | 43255      | 475095  | 6.41%  | 0.138% |
| 365 | 23.954 | 23.888 | 24.068 | HH | 44633      | 4682883 | 63.14% | 1.361% |

Sum of corrected areas: 344167183

C44-FG080618.M Wed Aug 08 08:32:13 2018