

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG080318\  
 Data File : FG001942.D  
 Signal(s) : FID1A.ch  
 Acq On : 03 Aug 2018 14:22  
 Sample : J4305-14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG073018.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         | 2.156       | 2.135        | 2.186      | PH       | 5462           | 45745        | 0.46%          | 0.009%        |
| 2         | 2.195       | 2.186        | 2.205      | PH       | 49             | 204          | 0.00%          | 0.000%        |
| 3         | 2.223       | 2.205        | 2.264      | HH       | 606            | 5598         | 0.06%          | 0.001%        |
| 4         | 2.279       | 2.264        | 2.292      | PH       | 754            | 5970         | 0.06%          | 0.001%        |
| 5         | 2.319       | 2.292        | 2.355      | HH       | 1874           | 25257        | 0.25%          | 0.005%        |
| 6         | 2.374       | 2.355        | 2.403      | HH       | 1909           | 23497        | 0.24%          | 0.005%        |
| 7         | 2.422       | 2.403        | 2.457      | HH       | 8023           | 93262        | 0.93%          | 0.019%        |
| 8         | 2.473       | 2.457        | 2.487      | HH       | 6965           | 56940        | 0.57%          | 0.012%        |
| 9         | 2.499       | 2.487        | 2.529      | HH       | 2555           | 38787        | 0.39%          | 0.008%        |
| 10        | 2.537       | 2.529        | 2.575      | HH       | 1143           | 14458        | 0.14%          | 0.003%        |
| 11        | 2.620       | 2.575        | 2.672      | PH       | 2241           | 40594        | 0.41%          | 0.008%        |
| 12        | 2.706       | 2.672        | 2.722      | PH       | 5431           | 83388        | 0.83%          | 0.017%        |
| 13        | 2.732       | 2.722        | 2.740      | HH       | 1940           | 15517        | 0.16%          | 0.003%        |
| 14        | 2.750       | 2.740        | 2.774      | HH       | 2895           | 31946        | 0.32%          | 0.007%        |
| 15        | 2.801       | 2.774        | 2.835      | HH       | 1874           | 42950        | 0.43%          | 0.009%        |
| 16        | 2.869       | 2.835        | 2.894      | HH       | 2711           | 55428        | 0.55%          | 0.011%        |
| 17        | 2.912       | 2.894        | 2.935      | HH       | 8597           | 97748        | 0.98%          | 0.020%        |
| 18        | 2.945       | 2.935        | 2.957      | HH       | 1334           | 16511        | 0.17%          | 0.003%        |
| 19        | 2.981       | 2.957        | 3.032      | HH       | 3977           | 86463        | 0.87%          | 0.018%        |
| 20        | 3.061       | 3.032        | 3.080      | HH       | 934            | 15516        | 0.16%          | 0.003%        |
| 21        | 3.099       | 3.080        | 3.138      | HH       | 2819           | 36039        | 0.36%          | 0.007%        |
| 22        | 3.166       | 3.138        | 3.240      | HH       | 5101           | 114708       | 1.15%          | 0.024%        |
| 23        | 3.280       | 3.240        | 3.292      | HH       | 3810           | 49521        | 0.50%          | 0.010%        |
| 24        | 3.305       | 3.292        | 3.322      | HH       | 3751           | 36691        | 0.37%          | 0.008%        |
| 25        | 3.344       | 3.322        | 3.378      | HH       | 4271           | 74447        | 0.74%          | 0.015%        |
| 26        | 3.422       | 3.378        | 3.455      | HH       | 7435           | 114984       | 1.15%          | 0.024%        |
| 27        | 3.491       | 3.455        | 3.514      | HH       | 2301           | 56726        | 0.57%          | 0.012%        |
| 28        | 3.533       | 3.514        | 3.575      | HH       | 7004           | 114795       | 1.15%          | 0.024%        |
| 29        | 3.603       | 3.575        | 3.632      | HH       | 6808           | 109490       | 1.10%          | 0.023%        |
| 30        | 3.649       | 3.632        | 3.675      | HH       | 3662           | 56548        | 0.57%          | 0.012%        |
| 31        | 3.692       | 3.675        | 3.711      | HH       | 4922           | 52078        | 0.52%          | 0.011%        |
| 32        | 3.736       | 3.711        | 3.786      | HH       | 7323           | 120551       | 1.21%          | 0.025%        |
| 33        | 3.825       | 3.786        | 3.838      | HH       | 5370           | 92490        | 0.93%          | 0.019%        |
| 34        | 3.854       | 3.838        | 3.872      | HH       | 6493           | 95306        | 0.95%          | 0.020%        |
| 35        | 3.881       | 3.872        | 3.895      | HH       | 4216           | 51525        | 0.52%          | 0.011%        |
| 36        | 3.916       | 3.895        | 3.945      | HH       | 4630           | 91744        | 0.92%          | 0.019%        |

|    |       |       |       |    |            |        |       |        |  |
|----|-------|-------|-------|----|------------|--------|-------|--------|--|
|    |       |       |       |    | rteres.txt |        |       |        |  |
| 37 | 3.987 | 3.945 | 4.012 | HH | 9143       | 161064 | 1.61% | 0.033% |  |
| 38 | 4.026 | 4.012 | 4.045 | HH | 4597       | 65131  | 0.65% | 0.013% |  |
| 39 | 4.057 | 4.045 | 4.100 | HH | 2658       | 58553  | 0.59% | 0.012% |  |
| 40 | 4.135 | 4.100 | 4.158 | HH | 2749       | 59933  | 0.60% | 0.012% |  |
| 41 | 4.174 | 4.158 | 4.193 | HH | 3220       | 45915  | 0.46% | 0.009% |  |
| 42 | 4.225 | 4.193 | 4.244 | HH | 9126       | 123575 | 1.24% | 0.025% |  |
| 43 | 4.262 | 4.244 | 4.280 | HH | 5913       | 71741  | 0.72% | 0.015% |  |
| 44 | 4.297 | 4.280 | 4.315 | HH | 3207       | 51189  | 0.51% | 0.011% |  |
| 45 | 4.325 | 4.315 | 4.347 | HH | 2013       | 29854  | 0.30% | 0.006% |  |
| 46 | 4.370 | 4.347 | 4.392 | HH | 3426       | 65423  | 0.65% | 0.013% |  |
| 47 | 4.439 | 4.392 | 4.461 | HH | 4894       | 145105 | 1.45% | 0.030% |  |
| 48 | 4.478 | 4.461 | 4.492 | HH | 9395       | 105886 | 1.06% | 0.022% |  |
| 49 | 4.501 | 4.492 | 4.519 | HH | 5206       | 56854  | 0.57% | 0.012% |  |
| 50 | 4.532 | 4.519 | 4.560 | HH | 2227       | 48535  | 0.49% | 0.010% |  |
| 51 | 4.599 | 4.560 | 4.613 | HH | 4127       | 87643  | 0.88% | 0.018% |  |
| 52 | 4.638 | 4.613 | 4.659 | HH | 3451       | 80631  | 0.81% | 0.017% |  |
| 53 | 4.685 | 4.659 | 4.720 | HH | 7351       | 129427 | 1.30% | 0.027% |  |
| 54 | 4.746 | 4.720 | 4.795 | HH | 2876       | 83967  | 0.84% | 0.017% |  |
| 55 | 4.835 | 4.795 | 4.848 | HH | 2818       | 70411  | 0.70% | 0.015% |  |
| 56 | 4.861 | 4.848 | 4.885 | HH | 4386       | 70342  | 0.70% | 0.014% |  |
| 57 | 4.903 | 4.885 | 4.920 | HH | 5351       | 74221  | 0.74% | 0.015% |  |
| 58 | 4.933 | 4.920 | 4.947 | HH | 4297       | 54071  | 0.54% | 0.011% |  |
| 59 | 4.963 | 4.947 | 5.004 | HH | 4594       | 106230 | 1.06% | 0.022% |  |
| 60 | 5.018 | 5.004 | 5.035 | HH | 1837       | 29740  | 0.30% | 0.006% |  |
| 61 | 5.054 | 5.035 | 5.067 | HH | 2476       | 37565  | 0.38% | 0.008% |  |
| 62 | 5.082 | 5.067 | 5.101 | HH | 2998       | 50077  | 0.50% | 0.010% |  |
| 63 | 5.124 | 5.101 | 5.135 | HH | 3948       | 62759  | 0.63% | 0.013% |  |
| 64 | 5.141 | 5.135 | 5.162 | HH | 3601       | 45940  | 0.46% | 0.009% |  |
| 65 | 5.179 | 5.162 | 5.196 | HH | 2247       | 39646  | 0.40% | 0.008% |  |
| 66 | 5.204 | 5.196 | 5.217 | HH | 1839       | 20652  | 0.21% | 0.004% |  |
| 67 | 5.258 | 5.217 | 5.315 | HH | 14948      | 293528 | 2.94% | 0.060% |  |
| 68 | 5.336 | 5.315 | 5.358 | HH | 5840       | 88197  | 0.88% | 0.018% |  |
| 69 | 5.376 | 5.358 | 5.400 | HH | 2787       | 53423  | 0.53% | 0.011% |  |
| 70 | 5.437 | 5.400 | 5.474 | HH | 4954       | 131625 | 1.32% | 0.027% |  |
| 71 | 5.548 | 5.474 | 5.575 | HH | 6409       | 229826 | 2.30% | 0.047% |  |
| 72 | 5.586 | 5.575 | 5.612 | HH | 3814       | 63874  | 0.64% | 0.013% |  |
| 73 | 5.624 | 5.612 | 5.637 | HH | 3319       | 41065  | 0.41% | 0.008% |  |
| 74 | 5.652 | 5.637 | 5.677 | HH | 3595       | 70438  | 0.70% | 0.015% |  |
| 75 | 5.714 | 5.677 | 5.734 | HH | 3870       | 102281 | 1.02% | 0.021% |  |
| 76 | 5.760 | 5.734 | 5.774 | HH | 4736       | 85444  | 0.86% | 0.018% |  |
| 77 | 5.797 | 5.774 | 5.837 | HH | 84895      | 976898 | 9.78% | 0.201% |  |
| 78 | 5.847 | 5.837 | 5.874 | HH | 6226       | 102042 | 1.02% | 0.021% |  |
| 79 | 5.896 | 5.874 | 5.918 | HH | 7532       | 117136 | 1.17% | 0.024% |  |
| 80 | 5.957 | 5.918 | 6.002 | HH | 4601       | 174169 | 1.74% | 0.036% |  |
| 81 | 6.036 | 6.002 | 6.050 | HH | 4754       | 100811 | 1.01% | 0.021% |  |
| 82 | 6.059 | 6.050 | 6.101 | HH | 3859       | 105632 | 1.06% | 0.022% |  |
| 83 | 6.144 | 6.101 | 6.169 | HH | 6157       | 187175 | 1.87% | 0.039% |  |
| 84 | 6.182 | 6.169 | 6.214 | HH | 4723       | 112091 | 1.12% | 0.023% |  |
| 85 | 6.236 | 6.214 | 6.293 | HH | 16807      | 281036 | 2.81% | 0.058% |  |
| 86 | 6.321 | 6.293 | 6.344 | HH | 3657       | 92135  | 0.92% | 0.019% |  |
| 87 | 6.384 | 6.344 | 6.407 | HH | 12102      | 216810 | 2.17% | 0.045% |  |
| 88 | 6.418 | 6.407 | 6.445 | HH | 4199       | 78772  | 0.79% | 0.016% |  |
| 89 | 6.455 | 6.445 | 6.468 | HH | 2578       | 32104  | 0.32% | 0.007% |  |

|            |       |       |       |    |       |         |        |        |
|------------|-------|-------|-------|----|-------|---------|--------|--------|
| rteres.txt |       |       |       |    |       |         |        |        |
| 90         | 6.483 | 6.468 | 6.495 | HH | 2927  | 40731   | 0.41%  | 0.008% |
| 91         | 6.510 | 6.495 | 6.529 | HH | 4063  | 61581   | 0.62%  | 0.013% |
| 92         | 6.554 | 6.529 | 6.599 | HH | 6507  | 175011  | 1.75%  | 0.036% |
| 93         | 6.625 | 6.599 | 6.643 | HH | 4959  | 109771  | 1.10%  | 0.023% |
| 94         | 6.661 | 6.643 | 6.678 | HH | 3921  | 76472   | 0.77%  | 0.016% |
| 95         | 6.690 | 6.678 | 6.707 | HH | 3428  | 56697   | 0.57%  | 0.012% |
| 96         | 6.733 | 6.707 | 6.741 | HH | 5351  | 92432   | 0.92%  | 0.019% |
| 97         | 6.754 | 6.741 | 6.774 | HH | 6051  | 103103  | 1.03%  | 0.021% |
| 98         | 6.791 | 6.774 | 6.818 | HH | 5492  | 111391  | 1.11%  | 0.023% |
| 99         | 6.851 | 6.818 | 6.909 | HH | 68192 | 938284  | 9.39%  | 0.193% |
| 100        | 6.937 | 6.909 | 6.960 | HH | 21735 | 323124  | 3.23%  | 0.067% |
| 101        | 6.983 | 6.960 | 7.022 | HH | 65511 | 801916  | 8.02%  | 0.165% |
| 102        | 7.031 | 7.022 | 7.081 | HH | 4889  | 141889  | 1.42%  | 0.029% |
| 103        | 7.101 | 7.081 | 7.116 | HH | 5221  | 86043   | 0.86%  | 0.018% |
| 104        | 7.158 | 7.116 | 7.183 | HH | 20093 | 349720  | 3.50%  | 0.072% |
| 105        | 7.198 | 7.183 | 7.213 | HH | 4449  | 76141   | 0.76%  | 0.016% |
| 106        | 7.232 | 7.213 | 7.255 | HH | 5306  | 108273  | 1.08%  | 0.022% |
| 107        | 7.285 | 7.255 | 7.307 | HH | 4031  | 115587  | 1.16%  | 0.024% |
| 108        | 7.331 | 7.307 | 7.357 | HH | 7305  | 151042  | 1.51%  | 0.031% |
| 109        | 7.378 | 7.357 | 7.394 | HH | 4282  | 83604   | 0.84%  | 0.017% |
| 110        | 7.407 | 7.394 | 7.418 | HH | 3827  | 51292   | 0.51%  | 0.011% |
| 111        | 7.437 | 7.418 | 7.473 | HH | 6258  | 144448  | 1.45%  | 0.030% |
| 112        | 7.492 | 7.473 | 7.510 | HH | 5630  | 94938   | 0.95%  | 0.020% |
| 113        | 7.521 | 7.510 | 7.538 | HH | 3862  | 60969   | 0.61%  | 0.013% |
| 114        | 7.578 | 7.538 | 7.615 | HH | 21064 | 404482  | 4.05%  | 0.083% |
| 115        | 7.626 | 7.615 | 7.655 | HH | 7022  | 146005  | 1.46%  | 0.030% |
| 116        | 7.677 | 7.655 | 7.688 | HH | 5124  | 95253   | 0.95%  | 0.020% |
| 117        | 7.729 | 7.688 | 7.764 | HH | 19689 | 456889  | 4.57%  | 0.094% |
| 118        | 7.778 | 7.764 | 7.804 | HH | 7306  | 148471  | 1.49%  | 0.031% |
| 119        | 7.844 | 7.804 | 7.887 | HH | 30506 | 731068  | 7.32%  | 0.151% |
| 120        | 7.945 | 7.887 | 7.961 | HH | 62823 | 886079  | 8.87%  | 0.183% |
| 121        | 7.973 | 7.961 | 7.993 | HH | 40681 | 480564  | 4.81%  | 0.099% |
| 122        | 8.026 | 7.993 | 8.050 | HH | 24648 | 488487  | 4.89%  | 0.101% |
| 123        | 8.087 | 8.050 | 8.106 | HH | 77908 | 1069550 | 10.70% | 0.220% |
| 124        | 8.125 | 8.106 | 8.159 | HH | 45827 | 822024  | 8.23%  | 0.169% |
| 125        | 8.175 | 8.159 | 8.197 | HH | 12012 | 198478  | 1.99%  | 0.041% |
| 126        | 8.218 | 8.197 | 8.248 | HH | 17777 | 298024  | 2.98%  | 0.061% |
| 127        | 8.266 | 8.248 | 8.328 | HH | 8521  | 264295  | 2.64%  | 0.054% |
| 128        | 8.382 | 8.328 | 8.396 | HH | 8873  | 246354  | 2.47%  | 0.051% |
| 129        | 8.421 | 8.396 | 8.451 | HH | 58101 | 759045  | 7.60%  | 0.156% |
| 130        | 8.472 | 8.451 | 8.500 | HH | 25301 | 427057  | 4.27%  | 0.088% |
| 131        | 8.562 | 8.500 | 8.598 | HH | 23543 | 736194  | 7.37%  | 0.152% |
| 132        | 8.614 | 8.598 | 8.631 | HH | 10770 | 177422  | 1.78%  | 0.037% |
| 133        | 8.662 | 8.631 | 8.676 | HH | 21092 | 363171  | 3.63%  | 0.075% |
| 134        | 8.695 | 8.676 | 8.723 | HH | 58878 | 776102  | 7.77%  | 0.160% |
| 135        | 8.735 | 8.723 | 8.771 | HH | 10904 | 266641  | 2.67%  | 0.055% |
| 136        | 8.787 | 8.771 | 8.811 | HH | 12372 | 231255  | 2.31%  | 0.048% |
| 137        | 8.846 | 8.811 | 8.861 | HH | 31200 | 628969  | 6.29%  | 0.130% |
| 138        | 8.873 | 8.861 | 8.920 | HH | 26471 | 460915  | 4.61%  | 0.095% |
| 139        | 8.945 | 8.920 | 8.960 | HH | 7079  | 154043  | 1.54%  | 0.032% |
| 140        | 8.988 | 8.960 | 9.005 | HH | 28257 | 414119  | 4.14%  | 0.085% |
| 141        | 9.021 | 9.005 | 9.052 | HH | 22639 | 349922  | 3.50%  | 0.072% |

| rteres.txt |        |        |        |    |        |         |        |        |
|------------|--------|--------|--------|----|--------|---------|--------|--------|
| 142        | 9.071  | 9.052  | 9.087  | HH | 10145  | 170755  | 1.71%  | 0.035% |
| 143        | 9.122  | 9.087  | 9.152  | HH | 29320  | 578805  | 5.79%  | 0.119% |
| 144        | 9.165  | 9.152  | 9.179  | HH | 10428  | 151340  | 1.51%  | 0.031% |
| 145        | 9.205  | 9.179  | 9.258  | HH | 51136  | 1017466 | 10.18% | 0.210% |
| 146        | 9.284  | 9.258  | 9.302  | HH | 35233  | 522068  | 5.22%  | 0.108% |
| 147        | 9.310  | 9.302  | 9.335  | HH | 16724  | 306041  | 3.06%  | 0.063% |
| 148        | 9.354  | 9.335  | 9.375  | HH | 28143  | 459226  | 4.60%  | 0.095% |
| 149        | 9.412  | 9.375  | 9.436  | HH | 24304  | 597600  | 5.98%  | 0.123% |
| 150        | 9.456  | 9.436  | 9.475  | HH | 12531  | 258646  | 2.59%  | 0.053% |
| 151        | 9.489  | 9.475  | 9.506  | HH | 11789  | 195407  | 1.96%  | 0.040% |
| 152        | 9.528  | 9.506  | 9.565  | HH | 34880  | 660054  | 6.60%  | 0.136% |
| 153        | 9.580  | 9.565  | 9.598  | HH | 14460  | 240169  | 2.40%  | 0.049% |
| 154        | 9.627  | 9.598  | 9.671  | HH | 68072  | 1176190 | 11.77% | 0.242% |
| 155        | 9.688  | 9.671  | 9.705  | HH | 17849  | 283899  | 2.84%  | 0.058% |
| 156        | 9.721  | 9.705  | 9.755  | HH | 13488  | 330262  | 3.30%  | 0.068% |
| 157        | 9.791  | 9.755  | 9.873  | HH | 12378  | 593508  | 5.94%  | 0.122% |
| 158        | 9.910  | 9.873  | 9.924  | HH | 8355   | 231818  | 2.32%  | 0.048% |
| 159        | 9.949  | 9.924  | 9.985  | HH | 15376  | 389216  | 3.89%  | 0.080% |
| 160        | 10.012 | 9.985  | 10.037 | HH | 19193  | 432709  | 4.33%  | 0.089% |
| 161        | 10.084 | 10.037 | 10.110 | HH | 26914  | 842901  | 8.43%  | 0.174% |
| 162        | 10.128 | 10.110 | 10.175 | HH | 22760  | 570252  | 5.71%  | 0.117% |
| 163        | 10.204 | 10.175 | 10.236 | HH | 24820  | 604836  | 6.05%  | 0.125% |
| 164        | 10.261 | 10.236 | 10.308 | HH | 64745  | 1203517 | 12.04% | 0.248% |
| 165        | 10.367 | 10.308 | 10.387 | HH | 53086  | 1233851 | 12.35% | 0.254% |
| 166        | 10.408 | 10.387 | 10.421 | HH | 54740  | 854801  | 8.55%  | 0.176% |
| 167        | 10.433 | 10.421 | 10.458 | HH | 49311  | 764766  | 7.65%  | 0.158% |
| 168        | 10.476 | 10.458 | 10.491 | HH | 18657  | 334941  | 3.35%  | 0.069% |
| 169        | 10.508 | 10.491 | 10.525 | HH | 25126  | 391502  | 3.92%  | 0.081% |
| 170        | 10.540 | 10.525 | 10.557 | HH | 17929  | 303971  | 3.04%  | 0.063% |
| 171        | 10.608 | 10.557 | 10.655 | HH | 685941 | 8334153 | 83.40% | 1.717% |
| 172        | 10.680 | 10.655 | 10.772 | HH | 170435 | 2866279 | 28.68% | 0.590% |
| 173        | 10.791 | 10.772 | 10.806 | HH | 14603  | 289729  | 2.90%  | 0.060% |
| 174        | 10.818 | 10.806 | 10.837 | HH | 14693  | 254496  | 2.55%  | 0.052% |
| 175        | 10.860 | 10.837 | 10.880 | HH | 23312  | 463545  | 4.64%  | 0.095% |
| 176        | 10.903 | 10.880 | 10.940 | HH | 74120  | 1242576 | 12.43% | 0.256% |
| 177        | 10.971 | 10.940 | 10.985 | HH | 16384  | 396995  | 3.97%  | 0.082% |
| 178        | 11.004 | 10.985 | 11.026 | HH | 20415  | 448336  | 4.49%  | 0.092% |
| 179        | 11.065 | 11.026 | 11.086 | HH | 38417  | 866861  | 8.67%  | 0.179% |
| 180        | 11.129 | 11.086 | 11.177 | HH | 48415  | 1510980 | 15.12% | 0.311% |
| 181        | 11.208 | 11.177 | 11.232 | HH | 28080  | 716163  | 7.17%  | 0.148% |
| 182        | 11.256 | 11.232 | 11.279 | HH | 35063  | 672922  | 6.73%  | 0.139% |
| 183        | 11.302 | 11.279 | 11.323 | HH | 29721  | 562584  | 5.63%  | 0.116% |
| 184        | 11.334 | 11.323 | 11.348 | HH | 17586  | 238414  | 2.39%  | 0.049% |
| 185        | 11.367 | 11.348 | 11.377 | HH | 19387  | 316966  | 3.17%  | 0.065% |
| 186        | 11.406 | 11.377 | 11.422 | HH | 112984 | 1576036 | 15.77% | 0.325% |
| 187        | 11.438 | 11.422 | 11.477 | HH | 144943 | 2087604 | 20.89% | 0.430% |
| 188        | 11.518 | 11.477 | 11.536 | HH | 83738  | 1756741 | 17.58% | 0.362% |
| 189        | 11.554 | 11.536 | 11.568 | HH | 93178  | 1186918 | 11.88% | 0.244% |
| 190        | 11.585 | 11.568 | 11.627 | HH | 111383 | 1734369 | 17.36% | 0.357% |
| 191        | 11.678 | 11.627 | 11.712 | HH | 25983  | 1048679 | 10.49% | 0.216% |
| 192        | 11.735 | 11.712 | 11.756 | HH | 45349  | 835707  | 8.36%  | 0.172% |
| 193        | 11.777 | 11.756 | 11.851 | HH | 77658  | 1936620 | 19.38% | 0.399% |
| 194        | 11.877 | 11.851 | 11.921 | HH | 74851  | 1535356 | 15.36% | 0.316% |

|     |        |        |        |    | rteres.txt |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
| 195 | 11.940 | 11.921 | 11.977 | HH | 30681      | 763532  | 7.64%  | 0.157% |
| 196 | 12.023 | 11.977 | 12.044 | HH | 29752      | 868322  | 8.69%  | 0.179% |
| 197 | 12.085 | 12.044 | 12.102 | HH | 30191      | 836363  | 8.37%  | 0.172% |
| 198 | 12.125 | 12.102 | 12.140 | HH | 35458      | 700968  | 7.01%  | 0.144% |
| 199 | 12.151 | 12.140 | 12.175 | HH | 32853      | 586131  | 5.87%  | 0.121% |
| 200 | 12.197 | 12.175 | 12.210 | HH | 47993      | 745492  | 7.46%  | 0.154% |
| 201 | 12.214 | 12.210 | 12.238 | HH | 39550      | 499112  | 4.99%  | 0.103% |
| 202 | 12.268 | 12.238 | 12.287 | HH | 59513      | 1134731 | 11.35% | 0.234% |
| 203 | 12.308 | 12.287 | 12.328 | HH | 86922      | 1431307 | 14.32% | 0.295% |
| 204 | 12.346 | 12.328 | 12.357 | HH | 53364      | 805489  | 8.06%  | 0.166% |
| 205 | 12.373 | 12.357 | 12.395 | HH | 71930      | 1164487 | 11.65% | 0.240% |
| 206 | 12.429 | 12.395 | 12.474 | HH | 697417     | 9535024 | 95.41% | 1.964% |
| 207 | 12.493 | 12.474 | 12.506 | HH | 25919      | 437870  | 4.38%  | 0.090% |
| 208 | 12.522 | 12.506 | 12.540 | HH | 27978      | 533066  | 5.33%  | 0.110% |
| 209 | 12.560 | 12.540 | 12.571 | HH | 37273      | 584670  | 5.85%  | 0.120% |
| 210 | 12.607 | 12.571 | 12.625 | HH | 55811      | 1366789 | 13.68% | 0.282% |
| 211 | 12.644 | 12.625 | 12.691 | HH | 57497      | 1518643 | 15.20% | 0.313% |
| 212 | 12.726 | 12.691 | 12.752 | HH | 635671     | 8013976 | 80.19% | 1.651% |
| 213 | 12.777 | 12.752 | 12.792 | HH | 75716      | 1213506 | 12.14% | 0.250% |
| 214 | 12.809 | 12.792 | 12.841 | HH | 91895      | 1523686 | 15.25% | 0.314% |
| 215 | 12.895 | 12.841 | 12.911 | HH | 54709      | 1470977 | 14.72% | 0.303% |
| 216 | 12.927 | 12.911 | 12.954 | HH | 48258      | 895719  | 8.96%  | 0.185% |
| 217 | 12.989 | 12.954 | 13.027 | HH | 77394      | 1792497 | 17.94% | 0.369% |
| 218 | 13.054 | 13.027 | 13.094 | HH | 39851      | 1248408 | 12.49% | 0.257% |
| 219 | 13.118 | 13.094 | 13.130 | HH | 47896      | 764077  | 7.65%  | 0.157% |
| 220 | 13.144 | 13.130 | 13.159 | HH | 46889      | 699300  | 7.00%  | 0.144% |
| 221 | 13.180 | 13.159 | 13.206 | HH | 74130      | 1481471 | 14.82% | 0.305% |
| 222 | 13.218 | 13.206 | 13.244 | HH | 30936      | 651600  | 6.52%  | 0.134% |
| 223 | 13.310 | 13.244 | 13.349 | HH | 127845     | 3431369 | 34.34% | 0.707% |
| 224 | 13.378 | 13.349 | 13.394 | HH | 39436      | 899332  | 9.00%  | 0.185% |
| 225 | 13.419 | 13.394 | 13.437 | HH | 73996      | 1277578 | 12.78% | 0.263% |
| 226 | 13.456 | 13.437 | 13.478 | HH | 88760      | 1457648 | 14.59% | 0.300% |
| 227 | 13.492 | 13.478 | 13.512 | HH | 43149      | 745109  | 7.46%  | 0.153% |
| 228 | 13.584 | 13.512 | 13.607 | HH | 91709      | 3067183 | 30.69% | 0.632% |
| 229 | 13.627 | 13.607 | 13.671 | HH | 77640      | 1789803 | 17.91% | 0.369% |
| 230 | 13.709 | 13.671 | 13.739 | HH | 42425      | 1377448 | 13.78% | 0.284% |
| 231 | 13.752 | 13.739 | 13.772 | HH | 33933      | 645100  | 6.46%  | 0.133% |
| 232 | 13.787 | 13.772 | 13.820 | HH | 33533      | 927881  | 9.28%  | 0.191% |
| 233 | 13.841 | 13.820 | 13.863 | HH | 35037      | 812337  | 8.13%  | 0.167% |
| 234 | 13.891 | 13.863 | 13.918 | HH | 38564      | 1094737 | 10.95% | 0.225% |
| 235 | 13.927 | 13.918 | 13.941 | HH | 29233      | 388053  | 3.88%  | 0.080% |
| 236 | 14.010 | 13.941 | 14.030 | HH | 49176      | 2092408 | 20.94% | 0.431% |
| 237 | 14.054 | 14.030 | 14.083 | HH | 112629     | 2050250 | 20.52% | 0.422% |
| 238 | 14.134 | 14.083 | 14.197 | HH | 59630      | 2863408 | 28.65% | 0.590% |
| 239 | 14.223 | 14.197 | 14.260 | HH | 109685     | 2344674 | 23.46% | 0.483% |
| 240 | 14.286 | 14.260 | 14.312 | HH | 124793     | 2436475 | 24.38% | 0.502% |
| 241 | 14.360 | 14.312 | 14.391 | HH | 105733     | 2975294 | 29.77% | 0.613% |
| 242 | 14.410 | 14.391 | 14.426 | HH | 42993      | 843044  | 8.44%  | 0.174% |
| 243 | 14.472 | 14.426 | 14.535 | HH | 185817     | 4471879 | 44.75% | 0.921% |
| 244 | 14.557 | 14.535 | 14.573 | HH | 60153      | 1075921 | 10.77% | 0.222% |
| 245 | 14.606 | 14.573 | 14.625 | HH | 392160     | 5748663 | 57.52% | 1.184% |
| 246 | 14.647 | 14.625 | 14.727 | HH | 406659     | 7101187 | 71.06% | 1.463% |

|     |        |        |        |    | rteres.txt |         |         |        |
|-----|--------|--------|--------|----|------------|---------|---------|--------|
| 247 | 14.764 | 14.727 | 14.817 | HH | 86535      | 3080200 | 30.82%  | 0.634% |
| 248 | 14.854 | 14.817 | 14.883 | HH | 60326      | 1866587 | 18.68%  | 0.384% |
| 249 | 14.913 | 14.883 | 14.930 | HH | 85728      | 1652654 | 16.54%  | 0.340% |
| 250 | 14.944 | 14.930 | 14.977 | HH | 64057      | 1599319 | 16.00%  | 0.329% |
| 251 | 14.990 | 14.977 | 15.017 | HH | 50386      | 1117448 | 11.18%  | 0.230% |
| 252 | 15.055 | 15.017 | 15.082 | HH | 96904      | 2477787 | 24.79%  | 0.510% |
| 253 | 15.094 | 15.082 | 15.125 | HH | 49922      | 1131450 | 11.32%  | 0.233% |
| 254 | 15.150 | 15.125 | 15.167 | HH | 45571      | 1054591 | 10.55%  | 0.217% |
| 255 | 15.192 | 15.167 | 15.214 | HH | 68891      | 1534127 | 15.35%  | 0.316% |
| 256 | 15.276 | 15.214 | 15.297 | HH | 146849     | 3755107 | 37.58%  | 0.773% |
| 257 | 15.313 | 15.297 | 15.347 | HH | 84699      | 1851754 | 18.53%  | 0.381% |
| 258 | 15.363 | 15.347 | 15.370 | HH | 51567      | 683039  | 6.83%   | 0.141% |
| 259 | 15.383 | 15.370 | 15.396 | HH | 54684      | 809196  | 8.10%   | 0.167% |
| 260 | 15.438 | 15.396 | 15.481 | HH | 85084      | 3292618 | 32.95%  | 0.678% |
| 261 | 15.511 | 15.481 | 15.540 | HH | 62779      | 1848491 | 18.50%  | 0.381% |
| 262 | 15.560 | 15.540 | 15.578 | HH | 49082      | 1064559 | 10.65%  | 0.219% |
| 263 | 15.598 | 15.578 | 15.634 | HH | 59527      | 1620463 | 16.22%  | 0.334% |
| 264 | 15.660 | 15.634 | 15.677 | HH | 65897      | 1425484 | 14.26%  | 0.294% |
| 265 | 15.696 | 15.677 | 15.744 | HH | 69862      | 2167690 | 21.69%  | 0.447% |
| 266 | 15.777 | 15.744 | 15.791 | HH | 45606      | 1203588 | 12.04%  | 0.248% |
| 267 | 15.807 | 15.791 | 15.843 | HH | 47604      | 1377371 | 13.78%  | 0.284% |
| 268 | 15.875 | 15.843 | 15.892 | HH | 56836      | 1440608 | 14.42%  | 0.297% |
| 269 | 15.912 | 15.892 | 15.933 | HH | 68905      | 1401369 | 14.02%  | 0.289% |
| 270 | 15.955 | 15.933 | 16.004 | HH | 64716      | 2326703 | 23.28%  | 0.479% |
| 271 | 16.027 | 16.004 | 16.044 | HH | 57449      | 1281975 | 12.83%  | 0.264% |
| 272 | 16.076 | 16.044 | 16.100 | HH | 79554      | 2107468 | 21.09%  | 0.434% |
| 273 | 16.119 | 16.100 | 16.134 | HH | 68091      | 1217965 | 12.19%  | 0.251% |
| 274 | 16.172 | 16.134 | 16.224 | HH | 424247     | 9993345 | 100.00% | 2.058% |
| 275 | 16.244 | 16.224 | 16.269 | HH | 55232      | 1428367 | 14.29%  | 0.294% |
| 276 | 16.297 | 16.269 | 16.320 | HH | 116021     | 2321798 | 23.23%  | 0.478% |
| 277 | 16.330 | 16.320 | 16.347 | HH | 60905      | 912559  | 9.13%   | 0.188% |
| 278 | 16.360 | 16.347 | 16.383 | HH | 55288      | 1142948 | 11.44%  | 0.235% |
| 279 | 16.419 | 16.383 | 16.433 | HH | 64023      | 1661192 | 16.62%  | 0.342% |
| 280 | 16.491 | 16.433 | 16.518 | HH | 274379     | 6147242 | 61.51%  | 1.266% |
| 281 | 16.550 | 16.518 | 16.590 | HH | 347995     | 6107779 | 61.12%  | 1.258% |
| 282 | 16.647 | 16.590 | 16.675 | HH | 142028     | 3900299 | 39.03%  | 0.803% |
| 283 | 16.698 | 16.675 | 16.739 | HH | 70474      | 2353840 | 23.55%  | 0.485% |
| 284 | 16.791 | 16.739 | 16.832 | HH | 76758      | 3670476 | 36.73%  | 0.756% |
| 285 | 16.849 | 16.832 | 16.870 | HH | 63258      | 1358507 | 13.59%  | 0.280% |
| 286 | 16.910 | 16.870 | 16.983 | HH | 83659      | 4594225 | 45.97%  | 0.946% |
| 287 | 17.013 | 16.983 | 17.027 | HH | 72377      | 1704401 | 17.06%  | 0.351% |
| 288 | 17.046 | 17.027 | 17.062 | HH | 79250      | 1542299 | 15.43%  | 0.318% |
| 289 | 17.094 | 17.062 | 17.115 | HH | 80911      | 2362544 | 23.64%  | 0.487% |
| 290 | 17.133 | 17.115 | 17.149 | HH | 72838      | 1362815 | 13.64%  | 0.281% |
| 291 | 17.161 | 17.149 | 17.182 | HH | 68769      | 1254779 | 12.56%  | 0.258% |
| 292 | 17.207 | 17.182 | 17.230 | HH | 77865      | 2005807 | 20.07%  | 0.413% |
| 293 | 17.241 | 17.230 | 17.285 | HH | 67312      | 2045164 | 20.47%  | 0.421% |
| 294 | 17.306 | 17.285 | 17.338 | HH | 62030      | 1891903 | 18.93%  | 0.390% |
| 295 | 17.356 | 17.338 | 17.376 | HH | 61927      | 1333846 | 13.35%  | 0.275% |
| 296 | 17.386 | 17.376 | 17.405 | HH | 58728      | 1007800 | 10.08%  | 0.208% |
| 297 | 17.416 | 17.405 | 17.436 | HH | 59146      | 1050026 | 10.51%  | 0.216% |
| 298 | 17.493 | 17.436 | 17.514 | HH | 70492      | 2999317 | 30.01%  | 0.618% |
| 299 | 17.538 | 17.514 | 17.567 | HH | 91242      | 2414574 | 24.16%  | 0.497% |

|     |        |        |        |    | rteres.txt |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
| 300 | 17.627 | 17.567 | 17.650 | HH | 87453      | 3545549 | 35.48% | 0.730% |
| 301 | 17.703 | 17.650 | 17.784 | HH | 93121      | 6087473 | 60.92% | 1.254% |
| 302 | 17.830 | 17.784 | 17.874 | HH | 131937     | 4741375 | 47.45% | 0.977% |
| 303 | 17.928 | 17.874 | 17.949 | HH | 244207     | 5949069 | 59.53% | 1.225% |
| 304 | 17.958 | 17.949 | 17.988 | HH | 122310     | 2374279 | 23.76% | 0.489% |
| 305 | 18.007 | 17.988 | 18.028 | HH | 85270      | 1887328 | 18.89% | 0.389% |
| 306 | 18.055 | 18.028 | 18.072 | HH | 127870     | 2581320 | 25.83% | 0.532% |
| 307 | 18.087 | 18.072 | 18.142 | HH | 112272     | 3780544 | 37.83% | 0.779% |
| 308 | 18.182 | 18.142 | 18.212 | HH | 245901     | 5184450 | 51.88% | 1.068% |
| 309 | 18.222 | 18.212 | 18.238 | HH | 71304      | 1120922 | 11.22% | 0.231% |
| 310 | 18.261 | 18.238 | 18.282 | HH | 82210      | 2037447 | 20.39% | 0.420% |
| 311 | 18.313 | 18.282 | 18.345 | HH | 119837     | 3423973 | 34.26% | 0.705% |
| 312 | 18.365 | 18.345 | 18.392 | HH | 77277      | 1993806 | 19.95% | 0.411% |
| 313 | 18.412 | 18.392 | 18.431 | HH | 73648      | 1654482 | 16.56% | 0.341% |
| 314 | 18.467 | 18.431 | 18.483 | HH | 81943      | 2340171 | 23.42% | 0.482% |
| 315 | 18.492 | 18.483 | 18.521 | HH | 79276      | 1788678 | 17.90% | 0.368% |
| 316 | 18.543 | 18.521 | 18.581 | HH | 85385      | 2790443 | 27.92% | 0.575% |
| 317 | 18.610 | 18.581 | 18.645 | HH | 89688      | 2996473 | 29.98% | 0.617% |
| 318 | 18.662 | 18.645 | 18.676 | HH | 78164      | 1421024 | 14.22% | 0.293% |
| 319 | 18.710 | 18.676 | 18.735 | HH | 112548     | 3378818 | 33.81% | 0.696% |
| 320 | 18.757 | 18.735 | 18.804 | HH | 96719      | 3514489 | 35.17% | 0.724% |
| 321 | 18.868 | 18.804 | 18.939 | HH | 89204      | 6153522 | 61.58% | 1.268% |
| 322 | 18.966 | 18.939 | 18.982 | HH | 76010      | 1878209 | 18.79% | 0.387% |
| 323 | 18.998 | 18.982 | 19.020 | HH | 74727      | 1673943 | 16.75% | 0.345% |
| 324 | 19.047 | 19.020 | 19.085 | HH | 75333      | 2817863 | 28.20% | 0.580% |
| 325 | 19.155 | 19.085 | 19.175 | HH | 77986      | 3983262 | 39.86% | 0.820% |
| 326 | 19.202 | 19.175 | 19.222 | HH | 88503      | 2290565 | 22.92% | 0.472% |
| 327 | 19.231 | 19.222 | 19.242 | HH | 78747      | 945556  | 9.46%  | 0.195% |
| 328 | 19.260 | 19.242 | 19.278 | HH | 84837      | 1789684 | 17.91% | 0.369% |
| 329 | 19.344 | 19.278 | 19.378 | HH | 141290     | 5944122 | 59.48% | 1.224% |
| 330 | 19.411 | 19.378 | 19.447 | HH | 157358     | 4678593 | 46.82% | 0.964% |
| 331 | 19.476 | 19.447 | 19.487 | HH | 102067     | 2293950 | 22.95% | 0.473% |
| 332 | 19.499 | 19.487 | 19.576 | HH | 103874     | 4691451 | 46.95% | 0.966% |
| 333 | 19.628 | 19.576 | 19.668 | HH | 90393      | 4418443 | 44.21% | 0.910% |
| 334 | 19.725 | 19.668 | 19.761 | HH | 178931     | 6003399 | 60.07% | 1.237% |
| 335 | 19.794 | 19.761 | 19.811 | HH | 105818     | 2847558 | 28.49% | 0.587% |
| 336 | 19.825 | 19.811 | 19.850 | HH | 98391      | 2169117 | 21.71% | 0.447% |
| 337 | 19.868 | 19.850 | 19.918 | HH | 89604      | 3445253 | 34.48% | 0.710% |
| 338 | 19.935 | 19.918 | 19.962 | HH | 82148      | 2099581 | 21.01% | 0.432% |
| 339 | 20.000 | 19.962 | 20.022 | HH | 86090      | 3021145 | 30.23% | 0.622% |
| 340 | 20.047 | 20.022 | 20.118 | HH | 93092      | 4844604 | 48.48% | 0.998% |
| 341 | 20.147 | 20.118 | 20.170 | HH | 80987      | 2475797 | 24.77% | 0.510% |
| 342 | 20.200 | 20.170 | 20.235 | HH | 83783      | 3184324 | 31.86% | 0.656% |
| 343 | 20.249 | 20.235 | 20.272 | HH | 84887      | 1850064 | 18.51% | 0.381% |
| 344 | 20.286 | 20.272 | 20.326 | HH | 85645      | 2702938 | 27.05% | 0.557% |
| 345 | 20.374 | 20.326 | 20.405 | HH | 90415      | 4045063 | 40.48% | 0.833% |
| 346 | 20.412 | 20.405 | 20.433 | HH | 83800      | 1384811 | 13.86% | 0.285% |
| 347 | 20.455 | 20.433 | 20.503 | HH | 83709      | 3494312 | 34.97% | 0.720% |
| 348 | 20.531 | 20.503 | 20.574 | HH | 84532      | 3520320 | 35.23% | 0.725% |
| 349 | 20.594 | 20.574 | 20.658 | HH | 85039      | 4211010 | 42.14% | 0.867% |
| 350 | 20.725 | 20.658 | 20.772 | HH | 92148      | 5822793 | 58.27% | 1.199% |
| 351 | 20.802 | 20.772 | 20.848 | HH | 87597      | 3810760 | 38.13% | 0.785% |

|     |        |        |        |     |                         |           |        |        |
|-----|--------|--------|--------|-----|-------------------------|-----------|--------|--------|
|     |        |        |        |     | rteres.txt              |           |        |        |
| 352 | 20.907 | 20.848 | 20.940 | HH  | 89492                   | 4596449   | 46.00% | 0.947% |
| 353 | 20.994 | 20.940 | 21.023 | HH  | 94351                   | 4191776   | 41.95% | 0.863% |
| 354 | 21.056 | 21.023 | 21.063 | HH  | 96234                   | 2166718   | 21.68% | 0.446% |
| 355 | 21.087 | 21.063 | 21.132 | HH  | 104676                  | 3915412   | 39.18% | 0.807% |
| 356 | 21.151 | 21.132 | 21.214 | HH  | 87664                   | 4022989   | 40.26% | 0.829% |
| 357 | 21.240 | 21.214 | 21.258 | HH  | 80742                   | 2099801   | 21.01% | 0.433% |
| 358 | 21.283 | 21.258 | 21.328 | HH  | 84301                   | 3361182   | 33.63% | 0.692% |
| 359 | 21.368 | 21.328 | 21.405 | HH  | 91413                   | 3778905   | 37.81% | 0.778% |
| 360 | 21.440 | 21.405 | 21.472 | HH  | 91953                   | 3279416   | 32.82% | 0.676% |
| 361 | 21.490 | 21.472 | 21.502 | HHA | 80147                   | 1491035   | 14.92% | 0.307% |
|     |        |        |        |     | Sum of corrected areas: | 485476158 |        |        |

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