

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE111418\  
 Data File : FE029237.D  
 Signal(s) : FID1B.CH  
 Acq On : 14 Nov 2018 19:53  
 Sample : J5929-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\C44-FE102318.M  
 Title :

Signal : FID1B.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         | 2.493       | 2.465        | 2.503      | BH       | 121            | 756          | 0.02%          | 0.001%        |
| 2         | 2.512       | 2.503        | 2.522      | PH       | 54             | 235          | 0.01%          | 0.000%        |
| 3         | 2.558       | 2.522        | 2.581      | HH       | 157            | 575          | 0.01%          | 0.000%        |
| 4         | 2.593       | 2.581        | 2.628      | PH       | 226            | 1124         | 0.03%          | 0.001%        |
| 5         | 2.681       | 2.628        | 2.701      | PH       | 286            | 3915         | 0.09%          | 0.003%        |
| 6         | 2.723       | 2.701        | 2.733      | HH       | 352            | 3519         | 0.08%          | 0.003%        |
| 7         | 2.751       | 2.733        | 2.772      | HH       | 797            | 7707         | 0.18%          | 0.007%        |
| 8         | 2.794       | 2.772        | 2.833      | HH       | 218            | 5555         | 0.13%          | 0.005%        |
| 9         | 2.880       | 2.833        | 2.897      | HH       | 271            | 7290         | 0.17%          | 0.006%        |
| 10        | 2.922       | 2.897        | 2.937      | HH       | 350            | 5487         | 0.13%          | 0.005%        |
| 11        | 2.952       | 2.937        | 2.985      | HH       | 939            | 13304        | 0.31%          | 0.011%        |
| 12        | 2.995       | 2.985        | 3.025      | HH       | 338            | 6997         | 0.16%          | 0.006%        |
| 13        | 3.051       | 3.025        | 3.087      | HH       | 404            | 12693        | 0.30%          | 0.011%        |
| 14        | 3.139       | 3.087        | 3.202      | HH       | 472            | 25039        | 0.58%          | 0.021%        |
| 15        | 3.222       | 3.202        | 3.259      | HH       | 479            | 13154        | 0.31%          | 0.011%        |
| 16        | 3.279       | 3.259        | 3.289      | HH       | 426            | 6831         | 0.16%          | 0.006%        |
| 17        | 3.303       | 3.289        | 3.312      | HH       | 439            | 5143         | 0.12%          | 0.004%        |
| 18        | 3.321       | 3.312        | 3.341      | HH       | 457            | 6812         | 0.16%          | 0.006%        |
| 19        | 3.351       | 3.341        | 3.394      | HH       | 500            | 13906        | 0.32%          | 0.012%        |
| 20        | 3.409       | 3.394        | 3.435      | HH       | 1031           | 19071        | 0.44%          | 0.016%        |
| 21        | 3.451       | 3.435        | 3.488      | HH       | 1077           | 27029        | 0.63%          | 0.023%        |
| 22        | 3.498       | 3.488        | 3.515      | HH       | 862            | 11662        | 0.27%          | 0.010%        |
| 23        | 3.528       | 3.515        | 3.578      | HH       | 659            | 21145        | 0.49%          | 0.018%        |
| 24        | 3.594       | 3.578        | 3.609      | HH       | 624            | 10385        | 0.24%          | 0.009%        |
| 25        | 3.652       | 3.609        | 3.695      | HH       | 648            | 30148        | 0.70%          | 0.026%        |
| 26        | 3.706       | 3.695        | 3.726      | HH       | 770            | 11509        | 0.27%          | 0.010%        |
| 27        | 3.796       | 3.726        | 3.842      | HH       | 1257           | 53818        | 1.26%          | 0.046%        |
| 28        | 3.849       | 3.842        | 3.917      | HH       | 807            | 29663        | 0.69%          | 0.025%        |
| 29        | 3.932       | 3.917        | 3.942      | HH       | 647            | 8863         | 0.21%          | 0.008%        |
| 30        | 3.974       | 3.942        | 3.987      | HH       | 789            | 18126        | 0.42%          | 0.015%        |
| 31        | 4.017       | 3.987        | 4.027      | HH       | 773            | 16329        | 0.38%          | 0.014%        |
| 32        | 4.031       | 4.027        | 4.042      | HH       | 719            | 6225         | 0.15%          | 0.005%        |
| 33        | 4.053       | 4.042        | 4.060      | HH       | 736            | 7521         | 0.18%          | 0.006%        |
| 34        | 4.079       | 4.060        | 4.088      | HH       | 844            | 12404        | 0.29%          | 0.011%        |
| 35        | 4.096       | 4.088        | 4.107      | HH       | 811            | 8236         | 0.19%          | 0.007%        |
| 36        | 4.166       | 4.107        | 4.322      | HH       | 63957          | 1010340      | 23.57%         | 0.856%        |

| rteres.txt |       |       |       |    |      |        |       |        |
|------------|-------|-------|-------|----|------|--------|-------|--------|
| 37         | 4.337 | 4.322 | 4.360 | HH | 1839 | 39684  | 0.93% | 0.034% |
| 38         | 4.373 | 4.360 | 4.398 | HH | 1819 | 38311  | 0.89% | 0.032% |
| 39         | 4.406 | 4.398 | 4.438 | HH | 1697 | 38255  | 0.89% | 0.032% |
| 40         | 4.444 | 4.438 | 4.502 | HH | 1569 | 53567  | 1.25% | 0.045% |
|            |       |       |       |    |      |        |       |        |
| 41         | 4.514 | 4.502 | 4.552 | HH | 1467 | 42410  | 0.99% | 0.036% |
| 42         | 4.562 | 4.552 | 4.592 | HH | 1783 | 34868  | 0.81% | 0.030% |
| 43         | 4.604 | 4.592 | 4.625 | HH | 1284 | 24488  | 0.57% | 0.021% |
| 44         | 4.653 | 4.625 | 4.694 | HH | 1330 | 49072  | 1.14% | 0.042% |
| 45         | 4.715 | 4.694 | 4.778 | HH | 5544 | 106073 | 2.47% | 0.090% |
|            |       |       |       |    |      |        |       |        |
| 46         | 4.795 | 4.778 | 4.855 | HH | 1343 | 53104  | 1.24% | 0.045% |
| 47         | 4.862 | 4.855 | 4.875 | HH | 1103 | 12354  | 0.29% | 0.010% |
| 48         | 4.883 | 4.875 | 4.902 | HH | 1103 | 16850  | 0.39% | 0.014% |
| 49         | 4.977 | 4.902 | 5.029 | HH | 1142 | 79513  | 1.85% | 0.067% |
| 50         | 5.036 | 5.029 | 5.048 | HH | 1044 | 11376  | 0.27% | 0.010% |
|            |       |       |       |    |      |        |       |        |
| 51         | 5.080 | 5.048 | 5.138 | HH | 1718 | 64052  | 1.49% | 0.054% |
| 52         | 5.161 | 5.138 | 5.192 | HH | 1395 | 37884  | 0.88% | 0.032% |
| 53         | 5.198 | 5.192 | 5.212 | HH | 1090 | 12033  | 0.28% | 0.010% |
| 54         | 5.220 | 5.212 | 5.252 | HH | 1067 | 24203  | 0.56% | 0.021% |
| 55         | 5.309 | 5.252 | 5.358 | HH | 1096 | 65270  | 1.52% | 0.055% |
|            |       |       |       |    |      |        |       |        |
| 56         | 5.365 | 5.358 | 5.385 | HH | 1134 | 17466  | 0.41% | 0.015% |
| 57         | 5.402 | 5.385 | 5.419 | HH | 1171 | 22052  | 0.51% | 0.019% |
| 58         | 5.442 | 5.419 | 5.480 | HH | 1321 | 41856  | 0.98% | 0.035% |
| 59         | 5.490 | 5.480 | 5.530 | HH | 1106 | 32048  | 0.75% | 0.027% |
| 60         | 5.542 | 5.530 | 5.549 | HH | 1111 | 11596  | 0.27% | 0.010% |
|            |       |       |       |    |      |        |       |        |
| 61         | 5.561 | 5.549 | 5.582 | HH | 1166 | 21593  | 0.50% | 0.018% |
| 62         | 5.599 | 5.582 | 5.624 | HH | 1162 | 26511  | 0.62% | 0.022% |
| 63         | 5.636 | 5.624 | 5.685 | HH | 1004 | 34987  | 0.82% | 0.030% |
| 64         | 5.707 | 5.685 | 5.738 | HH | 1075 | 32203  | 0.75% | 0.027% |
| 65         | 5.764 | 5.738 | 5.824 | HH | 1243 | 54551  | 1.27% | 0.046% |
|            |       |       |       |    |      |        |       |        |
| 66         | 5.855 | 5.824 | 5.885 | HH | 1151 | 39335  | 0.92% | 0.033% |
| 67         | 5.913 | 5.885 | 5.933 | HH | 1107 | 30250  | 0.71% | 0.026% |
| 68         | 5.947 | 5.933 | 5.958 | HH | 1159 | 16578  | 0.39% | 0.014% |
| 69         | 5.972 | 5.958 | 6.011 | HH | 1189 | 33588  | 0.78% | 0.028% |
| 70         | 6.065 | 6.011 | 6.092 | HH | 1154 | 52263  | 1.22% | 0.044% |
|            |       |       |       |    |      |        |       |        |
| 71         | 6.109 | 6.092 | 6.132 | HH | 1145 | 26158  | 0.61% | 0.022% |
| 72         | 6.152 | 6.132 | 6.169 | HH | 1499 | 27788  | 0.65% | 0.024% |
| 73         | 6.193 | 6.169 | 6.227 | HH | 1479 | 46890  | 1.09% | 0.040% |
| 74         | 6.239 | 6.227 | 6.269 | HH | 1369 | 32461  | 0.76% | 0.028% |
| 75         | 6.295 | 6.269 | 6.345 | HH | 4623 | 90667  | 2.12% | 0.077% |
|            |       |       |       |    |      |        |       |        |
| 76         | 6.368 | 6.345 | 6.405 | HH | 1278 | 43626  | 1.02% | 0.037% |
| 77         | 6.424 | 6.405 | 6.516 | HH | 1319 | 82214  | 1.92% | 0.070% |
| 78         | 6.526 | 6.516 | 6.558 | HH | 1225 | 30306  | 0.71% | 0.026% |
| 79         | 6.591 | 6.558 | 6.652 | HH | 2021 | 80855  | 1.89% | 0.069% |
| 80         | 6.665 | 6.652 | 6.695 | HH | 1271 | 31693  | 0.74% | 0.027% |
|            |       |       |       |    |      |        |       |        |
| 81         | 6.706 | 6.695 | 6.715 | HH | 1205 | 14216  | 0.33% | 0.012% |
| 82         | 6.730 | 6.715 | 6.743 | HH | 1329 | 20363  | 0.48% | 0.017% |
| 83         | 6.773 | 6.743 | 6.842 | HH | 1647 | 86823  | 2.03% | 0.074% |
| 84         | 6.879 | 6.842 | 6.906 | HH | 1485 | 53300  | 1.24% | 0.045% |
| 85         | 6.913 | 6.906 | 6.981 | HH | 1368 | 60040  | 1.40% | 0.051% |
|            |       |       |       |    |      |        |       |        |
| 86         | 6.995 | 6.981 | 7.008 | HH | 1440 | 22335  | 0.52% | 0.019% |
| 87         | 7.014 | 7.008 | 7.028 | HH | 1349 | 15462  | 0.36% | 0.013% |
| 88         | 7.038 | 7.028 | 7.073 | HH | 1361 | 35112  | 0.82% | 0.030% |
| 89         | 7.088 | 7.073 | 7.122 | HH | 1369 | 38205  | 0.89% | 0.032% |

|     |        |        |        |    |            |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
|     |        |        |        |    | rteres.txt |         |        |        |
| 90  | 7.146  | 7.122  | 7.162  | HH | 1339       | 30765   | 0.72%  | 0.026% |
| 91  | 7.216  | 7.162  | 7.235  | HH | 1823       | 62576   | 1.46%  | 0.053% |
| 92  | 7.291  | 7.235  | 7.359  | HH | 1710       | 106780  | 2.49%  | 0.090% |
| 93  | 7.405  | 7.359  | 7.442  | HH | 1535       | 71069   | 1.66%  | 0.060% |
| 94  | 7.461  | 7.442  | 7.492  | HH | 1475       | 42722   | 1.00%  | 0.036% |
| 95  | 7.512  | 7.492  | 7.538  | HH | 1563       | 39941   | 0.93%  | 0.034% |
| 96  | 7.580  | 7.538  | 7.616  | HH | 1461       | 63762   | 1.49%  | 0.054% |
| 97  | 7.628  | 7.616  | 7.655  | HH | 1444       | 31868   | 0.74%  | 0.027% |
| 98  | 7.672  | 7.655  | 7.763  | HH | 1405       | 89799   | 2.09%  | 0.076% |
| 99  | 7.801  | 7.763  | 7.823  | HH | 1822       | 55835   | 1.30%  | 0.047% |
| 100 | 7.833  | 7.823  | 7.845  | HH | 1509       | 19351   | 0.45%  | 0.016% |
| 101 | 7.919  | 7.845  | 7.954  | HH | 2328       | 115286  | 2.69%  | 0.098% |
| 102 | 7.969  | 7.954  | 8.055  | HH | 2292       | 101590  | 2.37%  | 0.086% |
| 103 | 8.063  | 8.055  | 8.101  | HH | 1581       | 41899   | 0.98%  | 0.036% |
| 104 | 8.148  | 8.101  | 8.189  | HH | 1957       | 88473   | 2.06%  | 0.075% |
| 105 | 8.202  | 8.189  | 8.232  | HH | 1740       | 42080   | 0.98%  | 0.036% |
| 106 | 8.289  | 8.232  | 8.322  | HH | 2152       | 95338   | 2.22%  | 0.081% |
| 107 | 8.353  | 8.322  | 8.370  | HH | 3977       | 75901   | 1.77%  | 0.064% |
| 108 | 8.380  | 8.370  | 8.428  | HH | 2762       | 70940   | 1.65%  | 0.060% |
| 109 | 8.453  | 8.428  | 8.508  | HH | 85710      | 1008777 | 23.53% | 0.855% |
| 110 | 8.521  | 8.508  | 8.611  | HH | 4519       | 187074  | 4.36%  | 0.159% |
| 111 | 8.622  | 8.611  | 8.647  | HH | 2271       | 47031   | 1.10%  | 0.040% |
| 112 | 8.668  | 8.647  | 8.688  | HH | 2098       | 50103   | 1.17%  | 0.042% |
| 113 | 8.704  | 8.688  | 8.724  | HH | 2082       | 43008   | 1.00%  | 0.036% |
| 114 | 8.749  | 8.724  | 8.785  | HH | 2397       | 75867   | 1.77%  | 0.064% |
| 115 | 8.813  | 8.785  | 8.855  | HH | 2932       | 97995   | 2.29%  | 0.083% |
| 116 | 8.882  | 8.855  | 8.901  | HH | 2436       | 63182   | 1.47%  | 0.054% |
| 117 | 8.913  | 8.901  | 8.958  | HH | 2490       | 76638   | 1.79%  | 0.065% |
| 118 | 8.969  | 8.958  | 9.008  | HH | 2073       | 59831   | 1.40%  | 0.051% |
| 119 | 9.035  | 9.008  | 9.094  | HH | 2079       | 101393  | 2.37%  | 0.086% |
| 120 | 9.117  | 9.094  | 9.181  | HH | 2792       | 122938  | 2.87%  | 0.104% |
| 121 | 9.206  | 9.181  | 9.275  | HH | 3437       | 137254  | 3.20%  | 0.116% |
| 122 | 9.291  | 9.275  | 9.312  | HH | 2262       | 47915   | 1.12%  | 0.041% |
| 123 | 9.389  | 9.312  | 9.462  | HH | 3340       | 209563  | 4.89%  | 0.178% |
| 124 | 9.483  | 9.462  | 9.525  | HH | 2390       | 84719   | 1.98%  | 0.072% |
| 125 | 9.534  | 9.525  | 9.555  | HH | 2189       | 38478   | 0.90%  | 0.033% |
| 126 | 9.581  | 9.555  | 9.595  | HH | 2721       | 58473   | 1.36%  | 0.050% |
| 127 | 9.615  | 9.595  | 9.638  | HH | 2963       | 72290   | 1.69%  | 0.061% |
| 128 | 9.645  | 9.638  | 9.691  | HH | 2859       | 82085   | 1.91%  | 0.070% |
| 129 | 9.716  | 9.691  | 9.751  | HH | 3200       | 100003  | 2.33%  | 0.085% |
| 130 | 9.765  | 9.751  | 9.793  | HH | 2811       | 65085   | 1.52%  | 0.055% |
| 131 | 9.826  | 9.793  | 9.862  | HH | 2866       | 103727  | 2.42%  | 0.088% |
| 132 | 9.904  | 9.862  | 9.918  | HH | 2777       | 83527   | 1.95%  | 0.071% |
| 133 | 9.938  | 9.918  | 9.963  | HH | 2982       | 76020   | 1.77%  | 0.064% |
| 134 | 9.986  | 9.963  | 10.012 | HH | 4234       | 92984   | 2.17%  | 0.079% |
| 135 | 10.024 | 10.012 | 10.035 | HH | 2741       | 37548   | 0.88%  | 0.032% |
| 136 | 10.054 | 10.035 | 10.083 | HH | 2869       | 79528   | 1.86%  | 0.067% |
| 137 | 10.100 | 10.083 | 10.128 | HH | 2756       | 71466   | 1.67%  | 0.061% |
| 138 | 10.159 | 10.128 | 10.225 | HH | 2861       | 154619  | 3.61%  | 0.131% |
| 139 | 10.234 | 10.225 | 10.243 | HH | 2571       | 26962   | 0.63%  | 0.023% |
| 140 | 10.265 | 10.243 | 10.279 | HH | 2660       | 56239   | 1.31%  | 0.048% |
| 141 | 10.333 | 10.279 | 10.348 | HH | 3427       | 119171  | 2.78%  | 0.101% |

|     |        |        |        |    | rteres.txt |        |        |        |  |
|-----|--------|--------|--------|----|------------|--------|--------|--------|--|
| 142 | 10.376 | 10.348 | 10.395 | HH | 3602       | 89455  | 2.09%  | 0.076% |  |
| 143 | 10.407 | 10.395 | 10.446 | HH | 3584       | 96342  | 2.25%  | 0.082% |  |
| 144 | 10.465 | 10.446 | 10.495 | HH | 3273       | 87986  | 2.05%  | 0.075% |  |
| 145 | 10.521 | 10.495 | 10.569 | HH | 3652       | 141779 | 3.31%  | 0.120% |  |
| 146 | 10.590 | 10.569 | 10.602 | HH | 3045       | 58172  | 1.36%  | 0.049% |  |
| 147 | 10.619 | 10.602 | 10.635 | HH | 3383       | 63436  | 1.48%  | 0.054% |  |
| 148 | 10.652 | 10.635 | 10.668 | HH | 4028       | 73571  | 1.72%  | 0.062% |  |
| 149 | 10.703 | 10.668 | 10.712 | HH | 4361       | 101772 | 2.37%  | 0.086% |  |
| 150 | 10.726 | 10.712 | 10.766 | HH | 4975       | 122646 | 2.86%  | 0.104% |  |
| 151 | 10.797 | 10.766 | 10.824 | HH | 3879       | 125419 | 2.93%  | 0.106% |  |
| 152 | 10.845 | 10.824 | 10.892 | HH | 3944       | 144858 | 3.38%  | 0.123% |  |
| 153 | 10.909 | 10.892 | 10.932 | HH | 3370       | 78551  | 1.83%  | 0.067% |  |
| 154 | 10.964 | 10.932 | 11.000 | HH | 3797       | 136934 | 3.19%  | 0.116% |  |
| 155 | 11.029 | 11.000 | 11.085 | HH | 4470       | 192306 | 4.49%  | 0.163% |  |
| 156 | 11.110 | 11.085 | 11.169 | HH | 4897       | 208239 | 4.86%  | 0.176% |  |
| 157 | 11.183 | 11.169 | 11.198 | HH | 3744       | 62902  | 1.47%  | 0.053% |  |
| 158 | 11.212 | 11.198 | 11.222 | HH | 3712       | 49854  | 1.16%  | 0.042% |  |
| 159 | 11.234 | 11.222 | 11.315 | HH | 3643       | 193157 | 4.51%  | 0.164% |  |
| 160 | 11.369 | 11.315 | 11.395 | HH | 3614       | 163950 | 3.82%  | 0.139% |  |
| 161 | 11.431 | 11.395 | 11.458 | HH | 4656       | 148258 | 3.46%  | 0.126% |  |
| 162 | 11.471 | 11.458 | 11.495 | HH | 3552       | 76901  | 1.79%  | 0.065% |  |
| 163 | 11.523 | 11.495 | 11.570 | HH | 3847       | 163068 | 3.80%  | 0.138% |  |
| 164 | 11.599 | 11.570 | 11.612 | HH | 3695       | 86186  | 2.01%  | 0.073% |  |
| 165 | 11.629 | 11.612 | 11.651 | HH | 3682       | 83165  | 1.94%  | 0.070% |  |
| 166 | 11.678 | 11.651 | 11.692 | HH | 3677       | 85128  | 1.99%  | 0.072% |  |
| 167 | 11.736 | 11.692 | 11.775 | HH | 3609       | 175970 | 4.10%  | 0.149% |  |
| 168 | 11.838 | 11.775 | 11.858 | HH | 4558       | 190633 | 4.45%  | 0.162% |  |
| 169 | 11.867 | 11.858 | 11.885 | HH | 3992       | 60573  | 1.41%  | 0.051% |  |
| 170 | 11.941 | 11.885 | 11.975 | HH | 5359       | 230551 | 5.38%  | 0.195% |  |
| 171 | 11.987 | 11.975 | 12.065 | HH | 4302       | 214341 | 5.00%  | 0.182% |  |
| 172 | 12.101 | 12.065 | 12.142 | HH | 4712       | 184521 | 4.30%  | 0.156% |  |
| 173 | 12.161 | 12.142 | 12.190 | HH | 3944       | 112384 | 2.62%  | 0.095% |  |
| 174 | 12.205 | 12.190 | 12.222 | HH | 4084       | 74341  | 1.73%  | 0.063% |  |
| 175 | 12.239 | 12.222 | 12.263 | HH | 3902       | 92237  | 2.15%  | 0.078% |  |
| 176 | 12.323 | 12.263 | 12.348 | HH | 4109       | 196206 | 4.58%  | 0.166% |  |
| 177 | 12.364 | 12.348 | 12.385 | HH | 4010       | 85359  | 1.99%  | 0.072% |  |
| 178 | 12.393 | 12.385 | 12.420 | HH | 3902       | 81639  | 1.90%  | 0.069% |  |
| 179 | 12.439 | 12.420 | 12.462 | HH | 4070       | 95937  | 2.24%  | 0.081% |  |
| 180 | 12.486 | 12.462 | 12.502 | HH | 3852       | 90209  | 2.10%  | 0.076% |  |
| 181 | 12.516 | 12.502 | 12.537 | HH | 4042       | 82751  | 1.93%  | 0.070% |  |
| 182 | 12.572 | 12.537 | 12.592 | HH | 4016       | 127102 | 2.96%  | 0.108% |  |
| 183 | 12.618 | 12.592 | 12.634 | HH | 4025       | 98045  | 2.29%  | 0.083% |  |
| 184 | 12.648 | 12.634 | 12.663 | HH | 4090       | 69164  | 1.61%  | 0.059% |  |
| 185 | 12.686 | 12.663 | 12.702 | HH | 4605       | 98732  | 2.30%  | 0.084% |  |
| 186 | 12.719 | 12.702 | 12.734 | HH | 4989       | 91984  | 2.15%  | 0.078% |  |
| 187 | 12.746 | 12.734 | 12.787 | HH | 4867       | 141351 | 3.30%  | 0.120% |  |
| 188 | 12.804 | 12.787 | 12.816 | HH | 4288       | 73759  | 1.72%  | 0.063% |  |
| 189 | 12.841 | 12.816 | 12.927 | HH | 16170      | 464238 | 10.83% | 0.393% |  |
| 190 | 12.946 | 12.927 | 12.974 | HH | 4254       | 115955 | 2.70%  | 0.098% |  |
| 191 | 12.996 | 12.974 | 13.018 | HH | 4683       | 115482 | 2.69%  | 0.098% |  |
| 192 | 13.035 | 13.018 | 13.054 | HH | 4699       | 97143  | 2.27%  | 0.082% |  |
| 193 | 13.065 | 13.054 | 13.090 | HH | 4466       | 94083  | 2.19%  | 0.080% |  |
| 194 | 13.103 | 13.090 | 13.115 | HH | 4289       | 62834  | 1.47%  | 0.053% |  |

| rteres.txt |        |        |        |    |        |         |         |        |
|------------|--------|--------|--------|----|--------|---------|---------|--------|
| 195        | 13.142 | 13.115 | 13.185 | HH | 16236  | 351839  | 8.21%   | 0.298% |
| 196        | 13.203 | 13.185 | 13.225 | HH | 6289   | 136854  | 3.19%   | 0.116% |
| 197        | 13.245 | 13.225 | 13.258 | HH | 5948   | 110134  | 2.57%   | 0.093% |
| 198        | 13.270 | 13.258 | 13.317 | HH | 6658   | 187163  | 4.37%   | 0.159% |
| 199        | 13.332 | 13.317 | 13.341 | HH | 4770   | 70172   | 1.64%   | 0.059% |
| 200        | 13.358 | 13.341 | 13.394 | HH | 5111   | 149847  | 3.50%   | 0.127% |
| 201        | 13.432 | 13.394 | 13.465 | HH | 5027   | 204110  | 4.76%   | 0.173% |
| 202        | 13.476 | 13.465 | 13.513 | HH | 4720   | 128936  | 3.01%   | 0.109% |
| 203        | 13.533 | 13.513 | 13.545 | HH | 4579   | 86351   | 2.01%   | 0.073% |
| 204        | 13.560 | 13.545 | 13.578 | HH | 4683   | 89320   | 2.08%   | 0.076% |
| 205        | 13.610 | 13.578 | 13.690 | HH | 5548   | 327835  | 7.65%   | 0.278% |
| 206        | 13.744 | 13.690 | 13.784 | HH | 8765   | 332628  | 7.76%   | 0.282% |
| 207        | 13.804 | 13.784 | 13.827 | HH | 5548   | 132011  | 3.08%   | 0.112% |
| 208        | 13.850 | 13.827 | 13.877 | HH | 8104   | 194679  | 4.54%   | 0.165% |
| 209        | 13.895 | 13.877 | 13.933 | HH | 6341   | 193514  | 4.51%   | 0.164% |
| 210        | 13.946 | 13.933 | 13.968 | HH | 5420   | 110220  | 2.57%   | 0.093% |
| 211        | 14.017 | 13.968 | 14.047 | HH | 5822   | 249335  | 5.82%   | 0.211% |
| 212        | 14.068 | 14.047 | 14.113 | HH | 5299   | 195317  | 4.56%   | 0.166% |
| 213        | 14.123 | 14.113 | 14.143 | HH | 4699   | 83699   | 1.95%   | 0.071% |
| 214        | 14.180 | 14.143 | 14.202 | HH | 4987   | 166749  | 3.89%   | 0.141% |
| 215        | 14.219 | 14.202 | 14.241 | HH | 4771   | 110273  | 2.57%   | 0.093% |
| 216        | 14.271 | 14.241 | 14.287 | HH | 4763   | 131300  | 3.06%   | 0.111% |
| 217        | 14.316 | 14.287 | 14.344 | HH | 5422   | 174819  | 4.08%   | 0.148% |
| 218        | 14.358 | 14.344 | 14.402 | HH | 5214   | 171776  | 4.01%   | 0.146% |
| 219        | 14.450 | 14.402 | 14.493 | HH | 6769   | 310878  | 7.25%   | 0.263% |
| 220        | 14.510 | 14.493 | 14.529 | HH | 6204   | 124562  | 2.91%   | 0.106% |
| 221        | 14.552 | 14.529 | 14.572 | HH | 6502   | 158597  | 3.70%   | 0.134% |
| 222        | 14.593 | 14.572 | 14.646 | HH | 7747   | 291834  | 6.81%   | 0.247% |
| 223        | 14.671 | 14.646 | 14.698 | HH | 7012   | 195584  | 4.56%   | 0.166% |
| 224        | 14.726 | 14.698 | 14.745 | HH | 6960   | 181961  | 4.24%   | 0.154% |
| 225        | 14.756 | 14.745 | 14.818 | HH | 6387   | 264449  | 6.17%   | 0.224% |
| 226        | 14.852 | 14.818 | 14.966 | HH | 320567 | 4286817 | 100.00% | 3.633% |
| 227        | 14.976 | 14.966 | 14.984 | HH | 5504   | 57120   | 1.33%   | 0.048% |
| 228        | 15.036 | 14.984 | 15.060 | HH | 15482  | 418135  | 9.75%   | 0.354% |
| 229        | 15.079 | 15.060 | 15.170 | HH | 15091  | 582260  | 13.58%  | 0.493% |
| 230        | 15.199 | 15.170 | 15.232 | HH | 7977   | 246491  | 5.75%   | 0.209% |
| 231        | 15.252 | 15.232 | 15.319 | HH | 6371   | 314350  | 7.33%   | 0.266% |
| 232        | 15.342 | 15.319 | 15.372 | HH | 6217   | 189917  | 4.43%   | 0.161% |
| 233        | 15.393 | 15.372 | 15.417 | HH | 7322   | 180755  | 4.22%   | 0.153% |
| 234        | 15.485 | 15.417 | 15.556 | HH | 12116  | 913572  | 21.31%  | 0.774% |
| 235        | 15.573 | 15.556 | 15.642 | HH | 12586  | 567000  | 13.23%  | 0.481% |
| 236        | 15.656 | 15.642 | 15.696 | HH | 11562  | 330535  | 7.71%   | 0.280% |
| 237        | 15.721 | 15.696 | 15.750 | HH | 10260  | 301024  | 7.02%   | 0.255% |
| 238        | 15.762 | 15.750 | 15.797 | HH | 8893   | 242967  | 5.67%   | 0.206% |
| 239        | 15.814 | 15.797 | 15.841 | HH | 8369   | 211769  | 4.94%   | 0.179% |
| 240        | 15.865 | 15.841 | 15.932 | HH | 8639   | 437189  | 10.20%  | 0.371% |
| 241        | 15.948 | 15.932 | 15.979 | HH | 7404   | 203564  | 4.75%   | 0.173% |
| 242        | 15.995 | 15.979 | 16.018 | HH | 7250   | 167090  | 3.90%   | 0.142% |
| 243        | 16.076 | 16.018 | 16.104 | HH | 9467   | 377816  | 8.81%   | 0.320% |
| 244        | 16.143 | 16.104 | 16.190 | HH | 7330   | 357841  | 8.35%   | 0.303% |
| 245        | 16.216 | 16.190 | 16.261 | HH | 7407   | 292101  | 6.81%   | 0.248% |
| 246        | 16.300 | 16.261 | 16.312 | HH | 6956   | 211024  | 4.92%   | 0.179% |

| rteres.txt |        |        |        |    |       |         |        |        |
|------------|--------|--------|--------|----|-------|---------|--------|--------|
| 247        | 16.321 | 16.312 | 16.344 | HH | 6859  | 126765  | 2.96%  | 0.107% |
| 248        | 16.389 | 16.344 | 16.398 | HH | 7057  | 223839  | 5.22%  | 0.190% |
| 249        | 16.428 | 16.398 | 16.473 | HH | 7958  | 325786  | 7.60%  | 0.276% |
| 250        | 16.560 | 16.473 | 16.588 | HH | 11748 | 568479  | 13.26% | 0.482% |
| 251        | 16.612 | 16.588 | 16.633 | HH | 15740 | 324045  | 7.56%  | 0.275% |
| 252        | 16.643 | 16.633 | 16.699 | HH | 12020 | 395166  | 9.22%  | 0.335% |
| 253        | 16.717 | 16.699 | 16.732 | HH | 9339  | 176465  | 4.12%  | 0.150% |
| 254        | 16.750 | 16.732 | 16.825 | HH | 9818  | 489241  | 11.41% | 0.415% |
| 255        | 16.874 | 16.825 | 16.897 | HH | 14241 | 417838  | 9.75%  | 0.354% |
| 256        | 16.936 | 16.897 | 16.978 | HH | 12546 | 486167  | 11.34% | 0.412% |
| 257        | 17.027 | 16.978 | 17.055 | HH | 15971 | 547039  | 12.76% | 0.464% |
| 258        | 17.078 | 17.055 | 17.096 | HH | 14213 | 280444  | 6.54%  | 0.238% |
| 259        | 17.109 | 17.096 | 17.152 | HH | 10783 | 326815  | 7.62%  | 0.277% |
| 260        | 17.173 | 17.152 | 17.208 | HH | 10203 | 316371  | 7.38%  | 0.268% |
| 261        | 17.239 | 17.208 | 17.251 | HH | 9229  | 232723  | 5.43%  | 0.197% |
| 262        | 17.262 | 17.251 | 17.274 | HH | 9236  | 128253  | 2.99%  | 0.109% |
| 263        | 17.294 | 17.274 | 17.306 | HH | 9517  | 180585  | 4.21%  | 0.153% |
| 264        | 17.321 | 17.306 | 17.339 | HH | 9624  | 183573  | 4.28%  | 0.156% |
| 265        | 17.375 | 17.339 | 17.452 | HH | 9996  | 643550  | 15.01% | 0.545% |
| 266        | 17.479 | 17.452 | 17.522 | HH | 18864 | 508083  | 11.85% | 0.431% |
| 267        | 17.533 | 17.522 | 17.551 | HH | 9670  | 165526  | 3.86%  | 0.140% |
| 268        | 17.572 | 17.551 | 17.596 | HH | 10706 | 269791  | 6.29%  | 0.229% |
| 269        | 17.611 | 17.596 | 17.650 | HH | 9845  | 312570  | 7.29%  | 0.265% |
| 270        | 17.669 | 17.650 | 17.736 | HH | 9743  | 485214  | 11.32% | 0.411% |
| 271        | 17.766 | 17.736 | 17.779 | HH | 9623  | 242895  | 5.67%  | 0.206% |
| 272        | 17.811 | 17.779 | 17.847 | HH | 9708  | 384456  | 8.97%  | 0.326% |
| 273        | 17.878 | 17.847 | 17.892 | HH | 10660 | 269441  | 6.29%  | 0.228% |
| 274        | 17.918 | 17.892 | 17.951 | HH | 18155 | 444938  | 10.38% | 0.377% |
| 275        | 18.011 | 17.951 | 18.040 | HH | 13997 | 577822  | 13.48% | 0.490% |
| 276        | 18.056 | 18.040 | 18.068 | HH | 10067 | 169089  | 3.94%  | 0.143% |
| 277        | 18.085 | 18.068 | 18.100 | HH | 10844 | 198438  | 4.63%  | 0.168% |
| 278        | 18.112 | 18.100 | 18.144 | HH | 10485 | 272088  | 6.35%  | 0.231% |
| 279        | 18.165 | 18.144 | 18.178 | HH | 11887 | 228662  | 5.33%  | 0.194% |
| 280        | 18.190 | 18.178 | 18.215 | HH | 11787 | 249130  | 5.81%  | 0.211% |
| 281        | 18.261 | 18.215 | 18.271 | HH | 11955 | 369879  | 8.63%  | 0.313% |
| 282        | 18.297 | 18.271 | 18.316 | HH | 13989 | 353618  | 8.25%  | 0.300% |
| 283        | 18.342 | 18.316 | 18.368 | HH | 22028 | 527843  | 12.31% | 0.447% |
| 284        | 18.400 | 18.368 | 18.424 | HH | 15686 | 481431  | 11.23% | 0.408% |
| 285        | 18.445 | 18.424 | 18.472 | HH | 14901 | 411301  | 9.59%  | 0.349% |
| 286        | 18.485 | 18.472 | 18.510 | HH | 13646 | 301759  | 7.04%  | 0.256% |
| 287        | 18.536 | 18.510 | 18.578 | HH | 13216 | 538003  | 12.55% | 0.456% |
| 288        | 18.650 | 18.578 | 18.701 | HH | 19133 | 1025789 | 23.93% | 0.869% |
| 289        | 18.751 | 18.701 | 18.794 | HH | 20720 | 821181  | 19.16% | 0.696% |
| 290        | 18.809 | 18.794 | 18.827 | HH | 12995 | 249632  | 5.82%  | 0.212% |
| 291        | 18.855 | 18.827 | 18.903 | HH | 15497 | 614409  | 14.33% | 0.521% |
| 292        | 18.925 | 18.903 | 18.992 | HH | 14129 | 688579  | 16.06% | 0.584% |
| 293        | 19.007 | 18.992 | 19.023 | HH | 12695 | 235930  | 5.50%  | 0.200% |
| 294        | 19.051 | 19.023 | 19.071 | HH | 13140 | 372794  | 8.70%  | 0.316% |
| 295        | 19.152 | 19.071 | 19.167 | HH | 19267 | 843000  | 19.66% | 0.714% |
| 296        | 19.178 | 19.167 | 19.205 | HH | 16948 | 361910  | 8.44%  | 0.307% |
| 297        | 19.218 | 19.205 | 19.231 | HH | 15091 | 235797  | 5.50%  | 0.200% |
| 298        | 19.258 | 19.231 | 19.278 | HH | 15676 | 431753  | 10.07% | 0.366% |
| 299        | 19.312 | 19.278 | 19.368 | HH | 17447 | 875087  | 20.41% | 0.742% |

|     |        |        |        |    |            |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
|     |        |        |        |    | rteres.txt |         |        |        |
| 300 | 19.437 | 19.368 | 19.453 | HH | 15430      | 775062  | 18.08% | 0.657% |
| 301 | 19.471 | 19.453 | 19.505 | HH | 16023      | 485628  | 11.33% | 0.412% |
| 302 | 19.537 | 19.505 | 19.574 | HH | 19783      | 691992  | 16.14% | 0.586% |
| 303 | 19.627 | 19.574 | 19.702 | HH | 17181      | 1213922 | 28.32% | 1.029% |
| 304 | 19.742 | 19.702 | 19.762 | HH | 17043      | 576375  | 13.45% | 0.488% |
| 305 | 19.785 | 19.762 | 19.797 | HH | 15987      | 332080  | 7.75%  | 0.281% |
| 306 | 19.829 | 19.797 | 19.875 | HH | 19451      | 823488  | 19.21% | 0.698% |
| 307 | 19.915 | 19.875 | 19.995 | HH | 22098      | 1312760 | 30.62% | 1.113% |
| 308 | 20.017 | 19.995 | 20.062 | HH | 17700      | 697268  | 16.27% | 0.591% |
| 309 | 20.073 | 20.062 | 20.085 | HH | 17277      | 237885  | 5.55%  | 0.202% |
| 310 | 20.150 | 20.085 | 20.168 | HH | 18966      | 898629  | 20.96% | 0.762% |
| 311 | 20.219 | 20.168 | 20.243 | HH | 19717      | 866553  | 20.21% | 0.734% |
| 312 | 20.279 | 20.243 | 20.300 | HH | 22872      | 702004  | 16.38% | 0.595% |
| 313 | 20.321 | 20.300 | 20.379 | HH | 21451      | 950153  | 22.16% | 0.805% |
| 314 | 20.401 | 20.379 | 20.426 | HH | 19689      | 550033  | 12.83% | 0.466% |
| 315 | 20.454 | 20.426 | 20.485 | HH | 20471      | 705263  | 16.45% | 0.598% |
| 316 | 20.542 | 20.485 | 20.579 | HH | 21188      | 1132108 | 26.41% | 0.959% |
| 317 | 20.588 | 20.579 | 20.602 | HH | 20049      | 272463  | 6.36%  | 0.231% |
| 318 | 20.646 | 20.602 | 20.745 | HH | 23148      | 1759760 | 41.05% | 1.491% |
| 319 | 20.761 | 20.745 | 20.780 | HH | 19969      | 417591  | 9.74%  | 0.354% |
| 320 | 20.820 | 20.780 | 20.882 | HH | 21892      | 1249094 | 29.14% | 1.059% |
| 321 | 20.894 | 20.882 | 20.920 | HH | 20140      | 456468  | 10.65% | 0.387% |
| 322 | 20.995 | 20.920 | 21.022 | HH | 20444      | 1239146 | 28.91% | 1.050% |
| 323 | 21.050 | 21.022 | 21.125 | HH | 23011      | 1272717 | 29.69% | 1.079% |
| 324 | 21.172 | 21.125 | 21.185 | HH | 19714      | 705194  | 16.45% | 0.598% |
| 325 | 21.281 | 21.185 | 21.302 | HH | 20186      | 1390665 | 32.44% | 1.179% |
| 326 | 21.392 | 21.302 | 21.474 | HH | 21955      | 2119162 | 49.43% | 1.796% |
| 327 | 21.502 | 21.474 | 21.557 | HH | 22182      | 1023459 | 23.87% | 0.867% |
| 328 | 21.586 | 21.557 | 21.605 | HH | 19593      | 552845  | 12.90% | 0.469% |
| 329 | 21.653 | 21.605 | 21.661 | HH | 19885      | 663573  | 15.48% | 0.562% |
| 330 | 21.764 | 21.661 | 21.793 | HH | 20743      | 1595257 | 37.21% | 1.352% |
| 331 | 21.803 | 21.793 | 21.812 | HH | 20451      | 230169  | 5.37%  | 0.195% |
| 332 | 21.817 | 21.812 | 21.965 | HH | 20423      | 1837194 | 42.86% | 1.557% |
| 333 | 22.017 | 21.965 | 22.044 | HH | 21887      | 981638  | 22.90% | 0.832% |
| 334 | 22.060 | 22.044 | 22.128 | HH | 20990      | 1013528 | 23.64% | 0.859% |
| 335 | 22.152 | 22.128 | 22.165 | HH | 19651      | 424548  | 9.90%  | 0.360% |
| 336 | 22.183 | 22.165 | 22.202 | HH | 19713      | 438606  | 10.23% | 0.372% |
| 337 | 22.238 | 22.202 | 22.249 | HH | 19760      | 560236  | 13.07% | 0.475% |
| 338 | 22.307 | 22.249 | 22.546 | HH | 20215      | 3472487 | 81.00% | 2.943% |
| 339 | 22.601 | 22.546 | 22.699 | HH | 21114      | 1819884 | 42.45% | 1.542% |
| 340 | 22.720 | 22.699 | 22.757 | HH | 19444      | 666844  | 15.56% | 0.565% |
| 341 | 22.773 | 22.757 | 22.785 | HH | 19351      | 327309  | 7.64%  | 0.277% |
| 342 | 22.790 | 22.785 | 22.794 | HH | 19340      | 107717  | 2.51%  | 0.091% |
| 343 | 22.863 | 22.794 | 22.925 | HH | 20559      | 1561238 | 36.42% | 1.323% |
| 344 | 22.936 | 22.925 | 23.069 | HH | 19857      | 1673364 | 39.04% | 1.418% |
| 345 | 23.079 | 23.069 | 23.122 | HH | 19010      | 594400  | 13.87% | 0.504% |
| 346 | 23.141 | 23.122 | 23.157 | HH | 18971      | 399277  | 9.31%  | 0.338% |
| 347 | 23.276 | 23.157 | 23.339 | HH | 20845      | 2137936 | 49.87% | 1.812% |
| 348 | 23.477 | 23.339 | 23.488 | HH | 19690      | 1724868 | 40.24% | 1.462% |
| 349 | 23.507 | 23.488 | 23.602 | HH | 19630      | 1306056 | 30.47% | 1.107% |
| 350 | 23.612 | 23.602 | 23.629 | HH | 18743      | 302719  | 7.06%  | 0.257% |
| 351 | 23.688 | 23.629 | 23.701 | HH | 18774      | 803865  | 18.75% | 0.681% |

|     |        |        |        |     |                         |         |           |        |
|-----|--------|--------|--------|-----|-------------------------|---------|-----------|--------|
|     |        |        |        |     | rteres.txt              |         |           |        |
| 352 | 23.719 | 23.701 | 23.751 | HH  | 18784                   | 560566  | 13.08%    | 0.475% |
| 353 | 23.844 | 23.751 | 23.892 | HH  | 19716                   | 1618382 | 37.75%    | 1.372% |
| 354 | 23.914 | 23.892 | 23.988 | HH  | 19029                   | 1095256 | 25.55%    | 0.928% |
| 355 | 24.054 | 23.988 | 24.255 | HH  | 20219                   | 3044379 | 71.02%    | 2.580% |
| 356 | 24.264 | 24.255 | 24.304 | HH  | 18430                   | 543873  | 12.69%    | 0.461% |
| 357 | 24.329 | 24.304 | 24.374 | HH  | 18283                   | 765288  | 17.85%    | 0.649% |
| 358 | 24.392 | 24.374 | 24.408 | HH  | 18252                   | 365595  | 8.53%     | 0.310% |
| 359 | 24.513 | 24.408 | 24.518 | HH  | 18572                   | 1209547 | 28.22%    | 1.025% |
| 360 | 24.531 | 24.518 | 24.562 | HH  | 18626                   | 493255  | 11.51%    | 0.418% |
| 361 | 24.573 | 24.562 | 24.578 | HH  | 18570                   | 179551  | 4.19%     | 0.152% |
| 362 | 24.594 | 24.578 | 24.605 | HH  | 18711                   | 300795  | 7.02%     | 0.255% |
| 363 | 24.653 | 24.605 | 24.670 | HH  | 18749                   | 727133  | 16.96%    | 0.616% |
| 364 | 24.678 | 24.670 | 24.715 | HH  | 18615                   | 504141  | 11.76%    | 0.427% |
| 365 | 24.739 | 24.715 | 24.765 | HH  | 18614                   | 556608  | 12.98%    | 0.472% |
| 366 | 24.772 | 24.765 | 24.790 | HH  | 18629                   | 272402  | 6.35%     | 0.231% |
| 367 | 24.837 | 24.790 | 24.855 | HH  | 18780                   | 734924  | 17.14%    | 0.623% |
| 368 | 24.861 | 24.855 | 24.899 | HH  | 18854                   | 489984  | 11.43%    | 0.415% |
| 369 | 24.967 | 24.899 | 25.082 | HHA | 19805                   | 2104493 | 49.09%    | 1.784% |
|     |        |        |        |     | Sum of corrected areas: |         | 117996018 |        |

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