

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF080318\  
 Data File : FF001641.D  
 Signal(s) : FID2B.ch  
 Acq On : 03 Aug 2018 05:42  
 Sample : J4307-01MS  
 Misc :  
 ALS Vial : 69 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\PESTPCBSRV\HPCHEM1\FID\_F\Method\FF073018.M  
 Title :

Signal : FID2B.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         | 2.065       | 2.032        | 2.179      | BH       | 124060         | 1053560      | 14.10%         | 0.418%        |
| 2         | 2.188       | 2.179        | 2.194      | HH       | 218            | 1182         | 0.02%          | 0.000%        |
| 3         | 2.196       | 2.194        | 2.210      | HH       | 131            | 965          | 0.01%          | 0.000%        |
| 4         | 2.216       | 2.210        | 2.219      | HH       | 206            | 702          | 0.01%          | 0.000%        |
| 5         | 2.224       | 2.219        | 2.232      | HH       | 168            | 1056         | 0.01%          | 0.000%        |
| 6         | 2.241       | 2.232        | 2.259      | HH       | 254            | 1892         | 0.03%          | 0.001%        |
| 7         | 2.287       | 2.259        | 2.314      | PH       | 331            | 2431         | 0.03%          | 0.001%        |
| 8         | 2.326       | 2.314        | 2.346      | PH       | 384            | 2726         | 0.04%          | 0.001%        |
| 9         | 2.348       | 2.346        | 2.353      | PH       | 81             | 93           | 0.00%          | 0.000%        |
| 10        | 2.357       | 2.353        | 2.364      | PH       | 15             | -152         | -0.00%         | -0.000%       |
| 11        | 2.375       | 2.364        | 2.394      | PH       | 206            | 793          | 0.01%          | 0.000%        |
| 12        | 2.409       | 2.394        | 2.431      | PH       | 31             | -679         | -0.01%         | -0.000%       |
| 13        | 2.437       | 2.431        | 2.445      | PH       | -16            | -702         | -0.01%         | -0.000%       |
| 14        | 2.450       | 2.445        | 2.459      | PH       | -97            | -1226        | -0.02%         | -0.000%       |
| 15        | 2.510       | 2.459        | 2.575      | PH       | 829            | 244          | 0.00%          | 0.000%        |
| 16        | 2.598       | 2.575        | 2.626      | PH       | 675            | 6666         | 0.09%          | 0.003%        |
| 17        | 2.630       | 2.626        | 2.651      | PH       | 48             | -1030        | -0.01%         | -0.000%       |
| 18        | 2.665       | 2.651        | 2.679      | PH       | -70            | -2424        | -0.03%         | -0.001%       |
| 19        | 2.704       | 2.679        | 2.740      | PH       | -49            | -6117        | -0.08%         | -0.002%       |
| 20        | 2.750       | 2.740        | 2.755      | PH       | -156           | -1909        | -0.03%         | -0.001%       |
| 21        | 2.776       | 2.755        | 2.806      | PH       | 7607           | 112040       | 1.50%          | 0.044%        |
| 22        | 2.810       | 2.806        | 2.864      | HH       | 2501           | 50258        | 0.67%          | 0.020%        |
| 23        | 2.873       | 2.864        | 2.945      | HH       | 928            | 27567        | 0.37%          | 0.011%        |
| 24        | 2.964       | 2.945        | 3.034      | HH       | 414            | 12835        | 0.17%          | 0.005%        |
| 25        | 3.067       | 3.034        | 3.092      | HH       | 549            | 7840         | 0.10%          | 0.003%        |
| 26        | 3.097       | 3.092        | 3.106      | HH       | 131            | 274          | 0.00%          | 0.000%        |
| 27        | 3.110       | 3.106        | 3.132      | PH       | 29             | -939         | -0.01%         | -0.000%       |
| 28        | 3.158       | 3.132        | 3.193      | PH       | 2110           | 21175        | 0.28%          | 0.008%        |
| 29        | 3.199       | 3.193        | 3.224      | PH       | 62             | -517         | -0.01%         | -0.000%       |
| 30        | 3.235       | 3.224        | 3.245      | PH       | 76             | 139          | 0.00%          | 0.000%        |
| 31        | 3.249       | 3.245        | 3.277      | PH       | 30             | -1690        | -0.02%         | -0.001%       |
| 32        | 3.283       | 3.277        | 3.305      | PH       | -125           | -3184        | -0.04%         | -0.001%       |
| 33        | 3.323       | 3.305        | 3.337      | PH       | 178            | 346          | 0.00%          | 0.000%        |
| 34        | 3.353       | 3.337        | 3.374      | PH       | 418            | 3378         | 0.05%          | 0.001%        |
| 35        | 3.384       | 3.374        | 3.394      | PH       | 49             | -152         | -0.00%         | -0.000%       |
| 36        | 3.397       | 3.394        | 3.407      | PH       | -2             | -468         | -0.01%         | -0.000%       |

|    |       |       |       |    |            |         |        |         |  |
|----|-------|-------|-------|----|------------|---------|--------|---------|--|
|    |       |       |       |    | rteres.txt |         |        |         |  |
| 37 | 3.434 | 3.407 | 3.454 | PH | 333        | 3582    | 0.05%  | 0.001%  |  |
| 38 | 3.475 | 3.454 | 3.489 | HH | 293        | 3691    | 0.05%  | 0.001%  |  |
| 39 | 3.499 | 3.489 | 3.526 | HH | 306        | 4474    | 0.06%  | 0.002%  |  |
| 40 | 3.549 | 3.526 | 3.572 | HH | 401        | 5694    | 0.08%  | 0.002%  |  |
| 41 | 3.585 | 3.572 | 3.611 | HH | 245        | 2026    | 0.03%  | 0.001%  |  |
| 42 | 3.635 | 3.611 | 3.657 | PH | 344        | 3550    | 0.05%  | 0.001%  |  |
| 43 | 3.664 | 3.657 | 3.691 | HH | 153        | -733    | -0.01% | -0.000% |  |
| 44 | 3.705 | 3.691 | 3.721 | PH | 52         | -346    | -0.00% | -0.000% |  |
| 45 | 3.751 | 3.721 | 3.768 | HH | 823        | 15066   | 0.20%  | 0.006%  |  |
| 46 | 3.781 | 3.768 | 3.804 | HH | 898        | 16651   | 0.22%  | 0.007%  |  |
| 47 | 3.820 | 3.804 | 3.858 | HH | 1378       | 31344   | 0.42%  | 0.012%  |  |
| 48 | 3.886 | 3.858 | 3.911 | HH | 1163       | 24991   | 0.33%  | 0.010%  |  |
| 49 | 3.922 | 3.911 | 3.956 | HH | 586        | 13122   | 0.18%  | 0.005%  |  |
| 50 | 3.960 | 3.956 | 4.002 | HH | 457        | 5510    | 0.07%  | 0.002%  |  |
| 51 | 4.006 | 4.002 | 4.049 | HH | 145        | 2012    | 0.03%  | 0.001%  |  |
| 52 | 4.069 | 4.049 | 4.095 | PH | 356        | 4201    | 0.06%  | 0.002%  |  |
| 53 | 4.123 | 4.095 | 4.176 | PH | 129395     | 1307570 | 17.49% | 0.519%  |  |
| 54 | 4.184 | 4.176 | 4.214 | HH | 834        | 14474   | 0.19%  | 0.006%  |  |
| 55 | 4.226 | 4.214 | 4.259 | HH | 529        | 9141    | 0.12%  | 0.004%  |  |
| 56 | 4.275 | 4.259 | 4.291 | HH | 939        | 11993   | 0.16%  | 0.005%  |  |
| 57 | 4.307 | 4.291 | 4.337 | HH | 792        | 16717   | 0.22%  | 0.007%  |  |
| 58 | 4.342 | 4.337 | 4.361 | HH | 462        | 5199    | 0.07%  | 0.002%  |  |
| 59 | 4.373 | 4.361 | 4.432 | HH | 481        | 7682    | 0.10%  | 0.003%  |  |
| 60 | 4.456 | 4.432 | 4.490 | PH | 3481       | 42490   | 0.57%  | 0.017%  |  |
| 61 | 4.497 | 4.490 | 4.514 | HH | 367        | 2805    | 0.04%  | 0.001%  |  |
| 62 | 4.534 | 4.514 | 4.553 | HH | 823        | 10754   | 0.14%  | 0.004%  |  |
| 63 | 4.576 | 4.553 | 4.613 | HH | 732        | 10832   | 0.14%  | 0.004%  |  |
| 64 | 4.619 | 4.613 | 4.624 | PH | -14        | -296    | -0.00% | -0.000% |  |
| 65 | 4.644 | 4.624 | 4.663 | PH | 24         | -1745   | -0.02% | -0.001% |  |
| 66 | 4.668 | 4.663 | 4.682 | PH | -140       | -1872   | -0.03% | -0.001% |  |
| 67 | 4.714 | 4.682 | 4.742 | PH | 318        | 1296    | 0.02%  | 0.001%  |  |
| 68 | 4.755 | 4.742 | 4.780 | PH | 57         | -1179   | -0.02% | -0.000% |  |
| 69 | 4.807 | 4.780 | 4.872 | PH | 5621       | 86408   | 1.16%  | 0.034%  |  |
| 70 | 4.888 | 4.872 | 4.970 | HH | 982        | 17871   | 0.24%  | 0.007%  |  |
| 71 | 4.988 | 4.970 | 5.009 | PH | 366        | 4759    | 0.06%  | 0.002%  |  |
| 72 | 5.013 | 5.009 | 5.031 | HH | 164        | 1110    | 0.01%  | 0.000%  |  |
| 73 | 5.039 | 5.031 | 5.060 | PH | 220        | 491     | 0.01%  | 0.000%  |  |
| 74 | 5.098 | 5.060 | 5.135 | PH | 258        | 551     | 0.01%  | 0.000%  |  |
| 75 | 5.155 | 5.135 | 5.179 | PH | 1678       | 17927   | 0.24%  | 0.007%  |  |
| 76 | 5.193 | 5.179 | 5.216 | HH | 578        | 2699    | 0.04%  | 0.001%  |  |
| 77 | 5.243 | 5.216 | 5.288 | PH | 3900       | 45382   | 0.61%  | 0.018%  |  |
| 78 | 5.295 | 5.288 | 5.309 | HH | 157        | 1015    | 0.01%  | 0.000%  |  |
| 79 | 5.321 | 5.309 | 5.347 | PH | 10         | -1164   | -0.02% | -0.000% |  |
| 80 | 5.353 | 5.347 | 5.356 | PH | -123       | -879    | -0.01% | -0.000% |  |
| 81 | 5.366 | 5.356 | 5.386 | PH | -53        | -2668   | -0.04% | -0.001% |  |
| 82 | 5.400 | 5.386 | 5.416 | PH | -118       | -3413   | -0.05% | -0.001% |  |
| 83 | 5.424 | 5.416 | 5.432 | PH | 9          | -815    | -0.01% | -0.000% |  |
| 84 | 5.436 | 5.432 | 5.460 | PH | 18         | -1895   | -0.03% | -0.001% |  |
| 85 | 5.517 | 5.460 | 5.537 | PH | 27         | -8207   | -0.11% | -0.003% |  |
| 86 | 5.542 | 5.537 | 5.569 | PH | -125       | -4447   | -0.06% | -0.002% |  |
| 87 | 5.604 | 5.569 | 5.623 | PH | 30         | -5216   | -0.07% | -0.002% |  |
| 88 | 5.648 | 5.623 | 5.668 | PH | -141       | -6619   | -0.09% | -0.003% |  |
| 89 | 5.697 | 5.668 | 5.759 | PH | 1983       | 36735   | 0.49%  | 0.015%  |  |

|            |       |       |       |    |        |         |        |         |
|------------|-------|-------|-------|----|--------|---------|--------|---------|
| rteres.txt |       |       |       |    |        |         |        |         |
| 90         | 5.765 | 5.759 | 5.779 | HH | 170    | 1179    | 0.02%  | 0.000%  |
| 91         | 5.787 | 5.779 | 5.812 | HH | 186    | 1230    | 0.02%  | 0.000%  |
| 92         | 5.856 | 5.812 | 5.884 | PH | 813    | 10746   | 0.14%  | 0.004%  |
| 93         | 5.889 | 5.884 | 5.908 | PH | -59    | -1519   | -0.02% | -0.001% |
| 94         | 5.927 | 5.908 | 5.942 | PH | 415    | 3528    | 0.05%  | 0.001%  |
| 95         | 5.951 | 5.942 | 5.961 | HH | 112    | 877     | 0.01%  | 0.000%  |
| 96         | 5.985 | 5.961 | 6.004 | HH | 485    | 6393    | 0.09%  | 0.003%  |
| 97         | 6.025 | 6.004 | 6.073 | HH | 1426   | 20680   | 0.28%  | 0.008%  |
| 98         | 6.081 | 6.073 | 6.086 | HH | 272    | 1606    | 0.02%  | 0.001%  |
| 99         | 6.089 | 6.086 | 6.097 | HH | 239    | 1443    | 0.02%  | 0.001%  |
| 100        | 6.129 | 6.097 | 6.227 | HH | 125892 | 1352366 | 18.09% | 0.537%  |
| 101        | 6.236 | 6.227 | 6.260 | HH | 81     | -443    | -0.01% | -0.000% |
| 102        | 6.275 | 6.260 | 6.299 | PH | 258    | 592     | 0.01%  | 0.000%  |
| 103        | 6.304 | 6.299 | 6.333 | PH | -154   | -5155   | -0.07% | -0.002% |
| 104        | 6.339 | 6.333 | 6.362 | PH | -132   | -5519   | -0.07% | -0.002% |
| 105        | 6.400 | 6.362 | 6.421 | PH | -259   | -12963  | -0.17% | -0.005% |
| 106        | 6.444 | 6.421 | 6.479 | PH | -200   | -13930  | -0.19% | -0.006% |
| 107        | 6.495 | 6.479 | 6.526 | PH | -325   | -10799  | -0.14% | -0.004% |
| 108        | 6.529 | 6.526 | 6.557 | PH | -401   | -9290   | -0.12% | -0.004% |
| 109        | 6.560 | 6.557 | 6.583 | PH | -445   | -7466   | -0.10% | -0.003% |
| 110        | 6.590 | 6.583 | 6.597 | PH | -460   | -4398   | -0.06% | -0.002% |
| 111        | 6.606 | 6.597 | 6.617 | PH | -447   | -5785   | -0.08% | -0.002% |
| 112        | 6.650 | 6.617 | 6.674 | PH | -72    | -8680   | -0.12% | -0.003% |
| 113        | 6.677 | 6.674 | 6.712 | PH | -163   | -7175   | -0.10% | -0.003% |
| 114        | 6.747 | 6.712 | 6.769 | PH | 489    | 1405    | 0.02%  | 0.001%  |
| 115        | 6.783 | 6.769 | 6.803 | PH | 129    | 240     | 0.00%  | 0.000%  |
| 116        | 6.826 | 6.803 | 6.846 | PH | 540    | 3843    | 0.05%  | 0.002%  |
| 117        | 6.875 | 6.846 | 6.909 | PH | 924    | 8187    | 0.11%  | 0.003%  |
| 118        | 6.927 | 6.909 | 6.972 | PH | 136    | -4004   | -0.05% | -0.002% |
| 119        | 6.974 | 6.972 | 6.979 | PH | -225   | -1104   | -0.01% | -0.000% |
| 120        | 6.983 | 6.979 | 6.999 | PH | -233   | -3233   | -0.04% | -0.001% |
| 121        | 7.047 | 6.999 | 7.092 | PH | 969    | -406    | -0.01% | -0.000% |
| 122        | 7.099 | 7.092 | 7.134 | PH | -310   | -9491   | -0.13% | -0.004% |
| 123        | 7.165 | 7.134 | 7.174 | PH | -187   | -8151   | -0.11% | -0.003% |
| 124        | 7.213 | 7.174 | 7.240 | PH | 329    | -6108   | -0.08% | -0.002% |
| 125        | 7.281 | 7.240 | 7.291 | PH | -266   | -11224  | -0.15% | -0.004% |
| 126        | 7.316 | 7.291 | 7.390 | PH | 726    | -6558   | -0.09% | -0.003% |
| 127        | 7.403 | 7.390 | 7.418 | PH | -347   | -6523   | -0.09% | -0.003% |
| 128        | 7.435 | 7.418 | 7.441 | PH | -316   | -5146   | -0.07% | -0.002% |
| 129        | 7.486 | 7.441 | 7.553 | PH | 1156   | 7266    | 0.10%  | 0.003%  |
| 130        | 7.562 | 7.553 | 7.577 | PH | -147   | -4050   | -0.05% | -0.002% |
| 131        | 7.612 | 7.577 | 7.619 | PH | 148    | -1995   | -0.03% | -0.001% |
| 132        | 7.620 | 7.619 | 7.649 | HH | 108    | -396    | -0.01% | -0.000% |
| 133        | 7.663 | 7.649 | 7.693 | PH | 135    | -2722   | -0.04% | -0.001% |
| 134        | 7.697 | 7.693 | 7.702 | PH | -192   | -1348   | -0.02% | -0.001% |
| 135        | 7.734 | 7.702 | 7.764 | PH | 632    | 3809    | 0.05%  | 0.002%  |
| 136        | 7.769 | 7.764 | 7.780 | PH | -92    | -1404   | -0.02% | -0.001% |
| 137        | 7.830 | 7.780 | 7.847 | PH | 1622   | 24226   | 0.32%  | 0.010%  |
| 138        | 7.860 | 7.847 | 7.872 | HH | 804    | 10364   | 0.14%  | 0.004%  |
| 139        | 7.913 | 7.872 | 7.947 | HH | 126938 | 1382095 | 18.49% | 0.549%  |
| 140        | 7.970 | 7.947 | 8.001 | HH | 48892  | 584702  | 7.82%  | 0.232%  |
| 141        | 8.009 | 8.001 | 8.084 | HH | 5139   | 102793  | 1.38%  | 0.041%  |

|     |        |        |        |    |            |         |        |         |  |
|-----|--------|--------|--------|----|------------|---------|--------|---------|--|
|     |        |        |        |    | rteres.txt |         |        |         |  |
| 142 | 8.100  | 8.084  | 8.131  | HH | 493        | 8894    | 0.12%  | 0.004%  |  |
| 143 | 8.146  | 8.131  | 8.193  | HH | 424        | 2279    | 0.03%  | 0.001%  |  |
| 144 | 8.197  | 8.193  | 8.208  | PH | -235       | -2227   | -0.03% | -0.001% |  |
| 145 | 8.230  | 8.208  | 8.238  | PH | -156       | -4881   | -0.07% | -0.002% |  |
| 146 | 8.261  | 8.238  | 8.279  | PH | 148        | 19      | 0.00%  | 0.000%  |  |
| 147 | 8.302  | 8.279  | 8.351  | PH | 3176       | 45421   | 0.61%  | 0.018%  |  |
| 148 | 8.360  | 8.351  | 8.372  | HH | 583        | 6327    | 0.08%  | 0.003%  |  |
| 149 | 8.393  | 8.372  | 8.422  | HH | 780        | 17236   | 0.23%  | 0.007%  |  |
| 150 | 8.446  | 8.422  | 8.480  | HH | 988        | 11272   | 0.15%  | 0.004%  |  |
| 151 | 8.499  | 8.480  | 8.519  | PH | 106        | -1301   | -0.02% | -0.001% |  |
| 152 | 8.545  | 8.519  | 8.571  | PH | 772        | 8726    | 0.12%  | 0.003%  |  |
| 153 | 8.592  | 8.571  | 8.604  | HH | 582        | 8104    | 0.11%  | 0.003%  |  |
| 154 | 8.635  | 8.604  | 8.696  | HH | 1786       | 41008   | 0.55%  | 0.016%  |  |
| 155 | 8.731  | 8.696  | 8.842  | PH | 3592       | 60153   | 0.80%  | 0.024%  |  |
| 156 | 8.868  | 8.842  | 8.885  | PH | 853        | 8355    | 0.11%  | 0.003%  |  |
| 157 | 8.918  | 8.885  | 8.941  | PH | 664        | 12646   | 0.17%  | 0.005%  |  |
| 158 | 8.955  | 8.941  | 8.975  | HH | 342        | 4477    | 0.06%  | 0.002%  |  |
| 159 | 9.005  | 8.975  | 9.031  | HH | 805        | 12230   | 0.16%  | 0.005%  |  |
| 160 | 9.051  | 9.031  | 9.066  | HH | 301        | 3605    | 0.05%  | 0.001%  |  |
| 161 | 9.097  | 9.066  | 9.134  | HH | 2535       | 56583   | 0.76%  | 0.022%  |  |
| 162 | 9.162  | 9.134  | 9.182  | HH | 1406       | 31489   | 0.42%  | 0.013%  |  |
| 163 | 9.192  | 9.182  | 9.211  | HH | 914        | 13790   | 0.18%  | 0.005%  |  |
| 164 | 9.234  | 9.211  | 9.257  | HH | 2082       | 36369   | 0.49%  | 0.014%  |  |
| 165 | 9.287  | 9.257  | 9.310  | HH | 1400       | 28551   | 0.38%  | 0.011%  |  |
| 166 | 9.334  | 9.310  | 9.376  | HH | 3548       | 52841   | 0.71%  | 0.021%  |  |
| 167 | 9.426  | 9.376  | 9.438  | HH | 1472       | 32671   | 0.44%  | 0.013%  |  |
| 168 | 9.445  | 9.438  | 9.471  | HH | 1423       | 23563   | 0.32%  | 0.009%  |  |
| 169 | 9.506  | 9.471  | 9.550  | HH | 124821     | 1453060 | 19.44% | 0.577%  |  |
| 170 | 9.575  | 9.550  | 9.590  | HH | 1280       | 27662   | 0.37%  | 0.011%  |  |
| 171 | 9.605  | 9.590  | 9.632  | HH | 1211       | 25520   | 0.34%  | 0.010%  |  |
| 172 | 9.659  | 9.632  | 9.729  | HH | 1662       | 63856   | 0.85%  | 0.025%  |  |
| 173 | 9.745  | 9.729  | 9.764  | HH | 744        | 11885   | 0.16%  | 0.005%  |  |
| 174 | 9.778  | 9.764  | 9.799  | HH | 719        | 12375   | 0.17%  | 0.005%  |  |
| 175 | 9.826  | 9.799  | 9.836  | HH | 1025       | 16461   | 0.22%  | 0.007%  |  |
| 176 | 9.853  | 9.836  | 9.862  | HH | 1488       | 19925   | 0.27%  | 0.008%  |  |
| 177 | 9.891  | 9.862  | 9.911  | HH | 3003       | 63028   | 0.84%  | 0.025%  |  |
| 178 | 9.935  | 9.911  | 9.956  | HH | 3205       | 67530   | 0.90%  | 0.027%  |  |
| 179 | 9.980  | 9.956  | 10.001 | HH | 2948       | 66241   | 0.89%  | 0.026%  |  |
| 180 | 10.032 | 10.001 | 10.058 | HH | 2600       | 65625   | 0.88%  | 0.026%  |  |
| 181 | 10.086 | 10.058 | 10.108 | HH | 3080       | 64891   | 0.87%  | 0.026%  |  |
| 182 | 10.147 | 10.108 | 10.164 | HH | 4014       | 100844  | 1.35%  | 0.040%  |  |
| 183 | 10.170 | 10.164 | 10.187 | HH | 3503       | 43514   | 0.58%  | 0.017%  |  |
| 184 | 10.202 | 10.187 | 10.221 | HH | 3735       | 68972   | 0.92%  | 0.027%  |  |
| 185 | 10.242 | 10.221 | 10.267 | HH | 12013      | 185052  | 2.48%  | 0.073%  |  |
| 186 | 10.322 | 10.267 | 10.377 | HH | 8260       | 296318  | 3.96%  | 0.118%  |  |
| 187 | 10.406 | 10.377 | 10.432 | HH | 2856       | 82898   | 1.11%  | 0.033%  |  |
| 188 | 10.479 | 10.432 | 10.537 | HH | 38566      | 666808  | 8.92%  | 0.265%  |  |
| 189 | 10.563 | 10.537 | 10.601 | HH | 8873       | 207507  | 2.78%  | 0.082%  |  |
| 190 | 10.631 | 10.601 | 10.677 | HH | 4908       | 158259  | 2.12%  | 0.063%  |  |
| 191 | 10.693 | 10.677 | 10.727 | HH | 2920       | 70825   | 0.95%  | 0.028%  |  |
| 192 | 10.746 | 10.727 | 10.767 | HH | 2923       | 56131   | 0.75%  | 0.022%  |  |
| 193 | 10.802 | 10.767 | 10.838 | HH | 3875       | 129103  | 1.73%  | 0.051%  |  |
| 194 | 10.874 | 10.838 | 10.898 | HH | 4084       | 109977  | 1.47%  | 0.044%  |  |

| rteres.txt |        |        |        |    |        |         |        |        |
|------------|--------|--------|--------|----|--------|---------|--------|--------|
| 195        | 10.942 | 10.898 | 10.988 | HH | 116432 | 1550965 | 20.75% | 0.616% |
| 196        | 11.020 | 10.988 | 11.061 | HH | 5114   | 169549  | 2.27%  | 0.067% |
| 197        | 11.084 | 11.061 | 11.109 | HH | 3642   | 91698   | 1.23%  | 0.036% |
| 198        | 11.133 | 11.109 | 11.156 | HH | 5386   | 108382  | 1.45%  | 0.043% |
| 199        | 11.183 | 11.156 | 11.220 | HH | 7403   | 164951  | 2.21%  | 0.066% |
| 200        | 11.252 | 11.220 | 11.262 | HH | 4210   | 86161   | 1.15%  | 0.034% |
| 201        | 11.282 | 11.262 | 11.298 | HH | 8188   | 129767  | 1.74%  | 0.052% |
| 202        | 11.315 | 11.298 | 11.358 | HH | 9361   | 223427  | 2.99%  | 0.089% |
| 203        | 11.390 | 11.358 | 11.412 | HH | 10540  | 216509  | 2.90%  | 0.086% |
| 204        | 11.428 | 11.412 | 11.442 | HH | 6959   | 107807  | 1.44%  | 0.043% |
| 205        | 11.461 | 11.442 | 11.521 | HH | 9134   | 239727  | 3.21%  | 0.095% |
| 206        | 11.546 | 11.521 | 11.563 | HH | 3299   | 76700   | 1.03%  | 0.030% |
| 207        | 11.609 | 11.563 | 11.641 | HH | 11958  | 268974  | 3.60%  | 0.107% |
| 208        | 11.688 | 11.641 | 11.733 | HH | 6399   | 260049  | 3.48%  | 0.103% |
| 209        | 11.757 | 11.733 | 11.799 | HH | 6178   | 189636  | 2.54%  | 0.075% |
| 210        | 11.808 | 11.799 | 11.848 | HH | 4331   | 117012  | 1.57%  | 0.046% |
| 211        | 11.872 | 11.848 | 11.929 | HH | 4515   | 187356  | 2.51%  | 0.074% |
| 212        | 11.948 | 11.929 | 11.952 | HH | 3997   | 53581   | 0.72%  | 0.021% |
| 213        | 11.955 | 11.952 | 11.962 | HH | 3890   | 23111   | 0.31%  | 0.009% |
| 214        | 11.993 | 11.962 | 12.014 | HH | 4848   | 136050  | 1.82%  | 0.054% |
| 215        | 12.022 | 12.014 | 12.051 | HH | 4673   | 95927   | 1.28%  | 0.038% |
| 216        | 12.070 | 12.051 | 12.086 | HH | 6004   | 110917  | 1.48%  | 0.044% |
| 217        | 12.090 | 12.086 | 12.121 | HH | 5355   | 94933   | 1.27%  | 0.038% |
| 218        | 12.175 | 12.121 | 12.197 | HH | 9804   | 318173  | 4.26%  | 0.126% |
| 219        | 12.211 | 12.197 | 12.217 | HH | 6709   | 78716   | 1.05%  | 0.031% |
| 220        | 12.247 | 12.217 | 12.269 | HH | 111687 | 1524647 | 20.40% | 0.606% |
| 221        | 12.288 | 12.269 | 12.366 | HH | 72664  | 1216258 | 16.27% | 0.483% |
| 222        | 12.389 | 12.366 | 12.415 | HH | 6142   | 156962  | 2.10%  | 0.062% |
| 223        | 12.456 | 12.415 | 12.465 | HH | 6394   | 175842  | 2.35%  | 0.070% |
| 224        | 12.479 | 12.465 | 12.499 | HH | 7164   | 131818  | 1.76%  | 0.052% |
| 225        | 12.514 | 12.499 | 12.527 | HH | 6243   | 101408  | 1.36%  | 0.040% |
| 226        | 12.539 | 12.527 | 12.556 | HH | 6526   | 107531  | 1.44%  | 0.043% |
| 227        | 12.583 | 12.556 | 12.625 | HH | 66194  | 1026036 | 13.73% | 0.408% |
| 228        | 12.650 | 12.625 | 12.668 | HH | 13951  | 274149  | 3.67%  | 0.109% |
| 229        | 12.684 | 12.668 | 12.745 | HH | 14353  | 407789  | 5.46%  | 0.162% |
| 230        | 12.770 | 12.745 | 12.796 | HH | 7791   | 204924  | 2.74%  | 0.081% |
| 231        | 12.811 | 12.796 | 12.834 | HH | 6616   | 145632  | 1.95%  | 0.058% |
| 232        | 12.861 | 12.834 | 12.909 | HH | 22889  | 545858  | 7.30%  | 0.217% |
| 233        | 12.923 | 12.909 | 12.947 | HH | 7597   | 159566  | 2.13%  | 0.063% |
| 234        | 12.989 | 12.947 | 13.007 | HH | 7980   | 259073  | 3.47%  | 0.103% |
| 235        | 13.047 | 13.007 | 13.083 | HH | 22726  | 552356  | 7.39%  | 0.219% |
| 236        | 13.094 | 13.083 | 13.137 | HH | 7365   | 224232  | 3.00%  | 0.089% |
| 237        | 13.184 | 13.137 | 13.214 | HH | 14486  | 466692  | 6.24%  | 0.185% |
| 238        | 13.224 | 13.214 | 13.239 | HH | 8539   | 123851  | 1.66%  | 0.049% |
| 239        | 13.244 | 13.239 | 13.268 | HH | 8268   | 137673  | 1.84%  | 0.055% |
| 240        | 13.291 | 13.268 | 13.304 | HH | 10675  | 201316  | 2.69%  | 0.080% |
| 241        | 13.324 | 13.304 | 13.381 | HH | 13189  | 490598  | 6.56%  | 0.195% |
| 242        | 13.442 | 13.381 | 13.475 | HH | 115427 | 1919240 | 25.68% | 0.762% |
| 243        | 13.493 | 13.475 | 13.567 | HH | 12252  | 513992  | 6.88%  | 0.204% |
| 244        | 13.582 | 13.567 | 13.592 | HH | 8215   | 119976  | 1.61%  | 0.048% |
| 245        | 13.626 | 13.592 | 13.647 | HH | 8976   | 280623  | 3.75%  | 0.111% |
| 246        | 13.679 | 13.647 | 13.736 | HH | 10110  | 492165  | 6.58%  | 0.195% |

|     |        |        |        |    | rteres.txt |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
| 247 | 13.741 | 13.736 | 13.755 | HH | 8706       | 99695   | 1.33%  | 0.040% |
| 248 | 13.790 | 13.755 | 13.796 | HH | 9401       | 217138  | 2.91%  | 0.086% |
| 249 | 13.810 | 13.796 | 13.814 | HH | 9362       | 102877  | 1.38%  | 0.041% |
| 250 | 13.844 | 13.814 | 13.872 | HH | 13542      | 399336  | 5.34%  | 0.159% |
| 251 | 13.904 | 13.872 | 13.917 | HH | 12132      | 311845  | 4.17%  | 0.124% |
| 252 | 13.937 | 13.917 | 13.962 | HH | 14336      | 342588  | 4.58%  | 0.136% |
| 253 | 14.004 | 13.962 | 14.076 | HH | 14471      | 800690  | 10.71% | 0.318% |
| 254 | 14.098 | 14.076 | 14.126 | HH | 16658      | 406596  | 5.44%  | 0.161% |
| 255 | 14.152 | 14.126 | 14.191 | HH | 18814      | 553368  | 7.40%  | 0.220% |
| 256 | 14.246 | 14.191 | 14.297 | HH | 15580      | 836968  | 11.20% | 0.332% |
| 257 | 14.340 | 14.297 | 14.384 | HH | 113336     | 2032977 | 27.20% | 0.807% |
| 258 | 14.398 | 14.384 | 14.409 | HH | 12026      | 178446  | 2.39%  | 0.071% |
| 259 | 14.431 | 14.409 | 14.442 | HH | 13538      | 253859  | 3.40%  | 0.101% |
| 260 | 14.466 | 14.442 | 14.483 | HH | 45227      | 710131  | 9.50%  | 0.282% |
| 261 | 14.504 | 14.483 | 14.521 | HH | 63214      | 1016079 | 13.59% | 0.404% |
| 262 | 14.542 | 14.521 | 14.574 | HH | 117064     | 1889827 | 25.28% | 0.751% |
| 263 | 14.579 | 14.574 | 14.602 | HH | 14635      | 234718  | 3.14%  | 0.093% |
| 264 | 14.624 | 14.602 | 14.647 | HH | 16796      | 398533  | 5.33%  | 0.158% |
| 265 | 14.665 | 14.647 | 14.700 | HH | 14813      | 436412  | 5.84%  | 0.173% |
| 266 | 14.715 | 14.700 | 14.727 | HH | 13163      | 216497  | 2.90%  | 0.086% |
| 267 | 14.744 | 14.727 | 14.759 | HH | 13838      | 255747  | 3.42%  | 0.102% |
| 268 | 14.795 | 14.759 | 14.804 | HH | 16775      | 398455  | 5.33%  | 0.158% |
| 269 | 14.811 | 14.804 | 14.876 | HH | 16533      | 637492  | 8.53%  | 0.253% |
| 270 | 14.927 | 14.876 | 14.996 | HH | 66002      | 2079593 | 27.82% | 0.826% |
| 271 | 15.032 | 14.996 | 15.049 | HH | 31312      | 740248  | 9.90%  | 0.294% |
| 272 | 15.073 | 15.049 | 15.095 | HH | 57165      | 1050815 | 14.06% | 0.417% |
| 273 | 15.113 | 15.095 | 15.129 | HH | 30480      | 526881  | 7.05%  | 0.209% |
| 274 | 15.143 | 15.129 | 15.220 | HH | 25340      | 1088100 | 14.56% | 0.432% |
| 275 | 15.238 | 15.220 | 15.246 | HH | 16371      | 254548  | 3.41%  | 0.101% |
| 276 | 15.307 | 15.246 | 15.349 | HH | 19892      | 1102855 | 14.76% | 0.438% |
| 277 | 15.385 | 15.349 | 15.412 | HH | 18214      | 656177  | 8.78%  | 0.261% |
| 278 | 15.447 | 15.412 | 15.506 | HH | 18933      | 998050  | 13.35% | 0.396% |
| 279 | 15.561 | 15.506 | 15.597 | HH | 119420     | 2378794 | 31.83% | 0.945% |
| 280 | 15.619 | 15.597 | 15.640 | HH | 19166      | 472362  | 6.32%  | 0.188% |
| 281 | 15.649 | 15.640 | 15.671 | HH | 18046      | 329354  | 4.41%  | 0.131% |
| 282 | 15.678 | 15.671 | 15.686 | HH | 17488      | 158564  | 2.12%  | 0.063% |
| 283 | 15.690 | 15.686 | 15.701 | HH | 17558      | 156964  | 2.10%  | 0.062% |
| 284 | 15.707 | 15.701 | 15.711 | HH | 17631      | 105146  | 1.41%  | 0.042% |
| 285 | 15.737 | 15.711 | 15.766 | HH | 19893      | 625567  | 8.37%  | 0.248% |
| 286 | 15.792 | 15.766 | 15.800 | HH | 20010      | 398142  | 5.33%  | 0.158% |
| 287 | 15.845 | 15.800 | 15.865 | HH | 22325      | 826576  | 11.06% | 0.328% |
| 288 | 15.872 | 15.865 | 15.886 | HH | 20579      | 252335  | 3.38%  | 0.100% |
| 289 | 15.940 | 15.886 | 15.974 | HH | 38343      | 1416164 | 18.95% | 0.562% |
| 290 | 16.025 | 15.974 | 16.083 | HH | 67279      | 2435685 | 32.59% | 0.967% |
| 291 | 16.098 | 16.083 | 16.134 | HH | 25885      | 740846  | 9.91%  | 0.294% |
| 292 | 16.159 | 16.134 | 16.246 | HH | 29335      | 1616984 | 21.63% | 0.642% |
| 293 | 16.310 | 16.246 | 16.319 | HH | 27125      | 1058682 | 14.16% | 0.420% |
| 294 | 16.344 | 16.319 | 16.379 | HH | 50162      | 1279481 | 17.12% | 0.508% |
| 295 | 16.405 | 16.379 | 16.459 | HH | 54387      | 1687875 | 22.58% | 0.670% |
| 296 | 16.508 | 16.459 | 16.536 | HH | 132108     | 2741371 | 36.68% | 1.089% |
| 297 | 16.549 | 16.536 | 16.568 | HH | 34997      | 622238  | 8.32%  | 0.247% |
| 298 | 16.583 | 16.568 | 16.611 | HH | 33871      | 779136  | 10.42% | 0.309% |
| 299 | 16.664 | 16.611 | 16.696 | HH | 29591      | 1441103 | 19.28% | 0.572% |

|     |        |        |        |    | rteres.txt |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
| 300 | 16.717 | 16.696 | 16.736 | HH | 28152      | 663881  | 8.88%  | 0.264% |
| 301 | 16.774 | 16.736 | 16.786 | HH | 30219      | 871514  | 11.66% | 0.346% |
| 302 | 16.816 | 16.786 | 16.845 | HH | 30772      | 1064471 | 14.24% | 0.423% |
| 303 | 16.880 | 16.845 | 16.926 | HH | 53664      | 1850350 | 24.76% | 0.735% |
| 304 | 16.957 | 16.926 | 16.986 | HH | 47613      | 1343096 | 17.97% | 0.533% |
| 305 | 17.007 | 16.986 | 17.029 | HH | 32632      | 820749  | 10.98% | 0.326% |
| 306 | 17.040 | 17.029 | 17.086 | HH | 32214      | 1071117 | 14.33% | 0.425% |
| 307 | 17.109 | 17.086 | 17.187 | HH | 33511      | 1929765 | 25.82% | 0.766% |
| 308 | 17.198 | 17.187 | 17.211 | HH | 31335      | 437186  | 5.85%  | 0.174% |
| 309 | 17.263 | 17.211 | 17.321 | HH | 35472      | 2201029 | 29.45% | 0.874% |
| 310 | 17.394 | 17.321 | 17.427 | HH | 138359     | 3766203 | 50.39% | 1.496% |
| 311 | 17.451 | 17.427 | 17.461 | HH | 38541      | 785140  | 10.50% | 0.312% |
| 312 | 17.483 | 17.461 | 17.494 | HH | 43116      | 809829  | 10.83% | 0.322% |
| 313 | 17.512 | 17.494 | 17.557 | HH | 46013      | 1578333 | 21.12% | 0.627% |
| 314 | 17.592 | 17.557 | 17.638 | HH | 47080      | 1988656 | 26.61% | 0.790% |
| 315 | 17.690 | 17.638 | 17.710 | HH | 55720      | 1866529 | 24.97% | 0.741% |
| 316 | 17.759 | 17.710 | 17.772 | HH | 68270      | 2030283 | 27.16% | 0.806% |
| 317 | 17.781 | 17.772 | 17.797 | HH | 64848      | 974334  | 13.04% | 0.387% |
| 318 | 17.816 | 17.797 | 17.852 | HH | 79559      | 1949067 | 26.08% | 0.774% |
| 319 | 17.867 | 17.852 | 17.887 | HH | 42380      | 852519  | 11.41% | 0.339% |
| 320 | 17.916 | 17.887 | 17.932 | HH | 46048      | 1187109 | 15.88% | 0.471% |
| 321 | 17.946 | 17.932 | 18.004 | HH | 45459      | 1786295 | 23.90% | 0.709% |
| 322 | 18.035 | 18.004 | 18.071 | HH | 58752      | 1908107 | 25.53% | 0.758% |
| 323 | 18.076 | 18.071 | 18.097 | HH | 43136      | 676671  | 9.05%  | 0.269% |
| 324 | 18.108 | 18.097 | 18.139 | HH | 42782      | 1056225 | 14.13% | 0.419% |
| 325 | 18.183 | 18.139 | 18.197 | HH | 61600      | 1790205 | 23.95% | 0.711% |
| 326 | 18.226 | 18.197 | 18.287 | HH | 133691     | 3837612 | 51.34% | 1.524% |
| 327 | 18.327 | 18.287 | 18.367 | HH | 70973      | 2812704 | 37.63% | 1.117% |
| 328 | 18.387 | 18.367 | 18.412 | HH | 66696      | 1553933 | 20.79% | 0.617% |
| 329 | 18.425 | 18.412 | 18.445 | HH | 48728      | 948638  | 12.69% | 0.377% |
| 330 | 18.468 | 18.445 | 18.483 | HH | 51726      | 1135674 | 15.19% | 0.451% |
| 331 | 18.506 | 18.483 | 18.526 | HH | 58181      | 1396649 | 18.69% | 0.555% |
| 332 | 18.562 | 18.526 | 18.607 | HH | 92237      | 3743546 | 50.09% | 1.487% |
| 333 | 18.621 | 18.607 | 18.649 | HH | 72690      | 1722935 | 23.05% | 0.684% |
| 334 | 18.675 | 18.649 | 18.700 | HH | 68693      | 1952671 | 26.13% | 0.776% |
| 335 | 18.720 | 18.700 | 18.786 | HH | 59832      | 2838102 | 37.97% | 1.127% |
| 336 | 18.815 | 18.786 | 18.862 | HH | 61240      | 2583033 | 34.56% | 1.026% |
| 337 | 18.892 | 18.862 | 18.915 | HH | 59151      | 1743826 | 23.33% | 0.693% |
| 338 | 18.930 | 18.915 | 18.949 | HH | 53448      | 1075974 | 14.40% | 0.427% |
| 339 | 18.963 | 18.949 | 18.971 | HH | 52190      | 672326  | 9.00%  | 0.267% |
| 340 | 19.007 | 18.971 | 19.030 | HH | 111222     | 2802920 | 37.50% | 1.113% |
| 341 | 19.046 | 19.030 | 19.085 | HH | 77568      | 2162686 | 28.93% | 0.859% |
| 342 | 19.115 | 19.085 | 19.137 | HH | 61822      | 1829758 | 24.48% | 0.727% |
| 343 | 19.158 | 19.137 | 19.173 | HH | 59014      | 1240291 | 16.59% | 0.493% |
| 344 | 19.200 | 19.173 | 19.227 | HH | 67883      | 2025321 | 27.10% | 0.804% |
| 345 | 19.272 | 19.227 | 19.294 | HH | 67221      | 2497152 | 33.41% | 0.992% |
| 346 | 19.319 | 19.294 | 19.342 | HH | 75152      | 2024521 | 27.09% | 0.804% |
| 347 | 19.406 | 19.342 | 19.445 | HH | 92650      | 4577707 | 61.25% | 1.818% |
| 348 | 19.497 | 19.445 | 19.524 | HH | 67906      | 3078937 | 41.19% | 1.223% |
| 349 | 19.591 | 19.524 | 19.624 | HH | 76285      | 4207954 | 56.30% | 1.671% |
| 350 | 19.649 | 19.624 | 19.682 | HH | 74922      | 2526421 | 33.80% | 1.003% |
| 351 | 19.699 | 19.682 | 19.716 | HH | 72668      | 1437835 | 19.24% | 0.571% |

| rteres.txt              |        |        |        |     |        |         |           |        |
|-------------------------|--------|--------|--------|-----|--------|---------|-----------|--------|
| 352                     | 19.746 | 19.716 | 19.812 | HH  | 98578  | 4534738 | 60.67%    | 1.801% |
| 353                     | 19.893 | 19.812 | 19.932 | HH  | 78755  | 5321579 | 71.20%    | 2.114% |
| 354                     | 20.004 | 19.932 | 20.021 | HH  | 78699  | 4076708 | 54.54%    | 1.619% |
| 355                     | 20.124 | 20.021 | 20.160 | HH  | 126072 | 7474340 | 100.00%   | 2.969% |
| 356                     | 20.171 | 20.160 | 20.182 | HH  | 82316  | 1075117 | 14.38%    | 0.427% |
| 357                     | 20.258 | 20.182 | 20.271 | HH  | 87001  | 4526780 | 60.56%    | 1.798% |
| 358                     | 20.338 | 20.271 | 20.355 | HH  | 91074  | 4479005 | 59.93%    | 1.779% |
| 359                     | 20.399 | 20.355 | 20.414 | HH  | 94070  | 3286998 | 43.98%    | 1.305% |
| 360                     | 20.448 | 20.414 | 20.497 | HH  | 110424 | 4915454 | 65.76%    | 1.952% |
| 361                     | 20.515 | 20.497 | 20.528 | HH  | 93552  | 1761256 | 23.56%    | 0.700% |
| 362                     | 20.536 | 20.528 | 20.544 | HH  | 93206  | 892607  | 11.94%    | 0.355% |
| 363                     | 20.584 | 20.544 | 20.611 | HH  | 95037  | 3769417 | 50.43%    | 1.497% |
| 364                     | 20.677 | 20.611 | 20.731 | HH  | 103628 | 7085941 | 94.80%    | 2.814% |
| 365                     | 20.744 | 20.731 | 20.809 | HH  | 96892  | 4470391 | 59.81%    | 1.775% |
| 366                     | 20.826 | 20.809 | 20.833 | HH  | 94945  | 1384911 | 18.53%    | 0.550% |
| 367                     | 20.842 | 20.833 | 20.877 | HH  | 94853  | 2485516 | 33.25%    | 0.987% |
| 368                     | 20.910 | 20.877 | 21.002 | HH  | 94844  | 6957054 | 93.08%    | 2.763% |
| 369                     | 21.018 | 21.002 | 21.061 | HH  | 91040  | 3173109 | 42.45%    | 1.260% |
| 370                     | 21.139 | 21.061 | 21.181 | HH  | 95535  | 6683184 | 89.42%    | 2.654% |
| 371                     | 21.238 | 21.181 | 21.301 | HHA | 101977 | 6882070 | 92.08%    | 2.733% |
| Sum of corrected areas: |        |        |        |     |        |         | 251787512 |        |

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