

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF080718\  
 Data File : FF001718.D  
 Signal(s) : FID2B.ch  
 Acq On : 07 Aug 2018 13:58  
 Sample : J4309-01  
 Misc :  
 ALS Vial : 57 Sample Multiplier: 1

Integration File: sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\C44-FF080418.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         | 2.116       | 2.065        | 2.219      | BH       | 2113           | -74935       | -0.35%         | -0.008%       |
| 2         | 2.230       | 2.219        | 2.242      | PH       | -1707          | -24302       | -0.11%         | -0.003%       |
| 3         | 2.253       | 2.242        | 2.275      | PH       | -1750          | -36126       | -0.17%         | -0.004%       |
| 4         | 2.292       | 2.275        | 2.307      | PH       | -1140          | -29373       | -0.14%         | -0.003%       |
| 5         | 2.320       | 2.307        | 2.350      | PH       | -1276          | -41182       | -0.19%         | -0.004%       |
| 6         | 2.367       | 2.350        | 2.379      | PH       | 960            | -10702       | -0.05%         | -0.001%       |
| 7         | 2.386       | 2.379        | 2.402      | PH       | -635           | -16756       | -0.08%         | -0.002%       |
| 8         | 2.416       | 2.402        | 2.472      | PH       | 1214           | -41285       | -0.19%         | -0.004%       |
| 9         | 2.549       | 2.472        | 2.614      | PH       | 15714          | 175409       | 0.83%          | 0.019%        |
| 10        | 2.638       | 2.614        | 2.686      | HH       | 6398           | 138193       | 0.65%          | 0.015%        |
| 11        | 2.698       | 2.686        | 2.711      | HH       | 2132           | 27697        | 0.13%          | 0.003%        |
| 12        | 2.730       | 2.711        | 2.765      | HH       | 1833           | 42096        | 0.20%          | 0.005%        |
| 13        | 2.807       | 2.765        | 2.884      | HH       | 23961          | 524480       | 2.47%          | 0.056%        |
| 14        | 2.901       | 2.884        | 2.980      | HH       | 2999           | 62333        | 0.29%          | 0.007%        |
| 15        | 3.015       | 2.980        | 3.062      | PH       | 719            | -8966        | -0.04%         | -0.001%       |
| 16        | 3.083       | 3.062        | 3.155      | PH       | 2234           | -29954       | -0.14%         | -0.003%       |
| 17        | 3.178       | 3.155        | 3.205      | PH       | 1273           | -13701       | -0.06%         | -0.001%       |
| 18        | 3.215       | 3.205        | 3.234      | PH       | -846           | -25565       | -0.12%         | -0.003%       |
| 19        | 3.250       | 3.234        | 3.263      | PH       | -1140          | -27823       | -0.13%         | -0.003%       |
| 20        | 3.273       | 3.263        | 3.313      | PH       | -1424          | -64338       | -0.30%         | -0.007%       |
| 21        | 3.332       | 3.313        | 3.354      | PH       | 305            | -29382       | -0.14%         | -0.003%       |
| 22        | 3.396       | 3.354        | 3.421      | PH       | -1233          | -62485       | -0.29%         | -0.007%       |
| 23        | 3.440       | 3.421        | 3.470      | PH       | 345            | -25214       | -0.12%         | -0.003%       |
| 24        | 3.508       | 3.470        | 3.534      | PH       | 515            | -27739       | -0.13%         | -0.003%       |
| 25        | 3.563       | 3.534        | 3.579      | PH       | 1094           | -10519       | -0.05%         | -0.001%       |
| 26        | 3.591       | 3.579        | 3.615      | PH       | 607            | -14391       | -0.07%         | -0.002%       |
| 27        | 3.643       | 3.615        | 3.687      | PH       | 3809           | -22172       | -0.10%         | -0.002%       |
| 28        | 3.760       | 3.687        | 3.868      | PH       | 52019          | 1247200      | 5.87%          | 0.134%        |
| 29        | 3.890       | 3.868        | 4.012      | HH       | 11476          | 144112       | 0.68%          | 0.016%        |
| 30        | 4.025       | 4.012        | 4.055      | PH       | -1529          | -46808       | -0.22%         | -0.005%       |
| 31        | 4.073       | 4.055        | 4.096      | PH       | -1098          | -40629       | -0.19%         | -0.004%       |
| 32        | 4.121       | 4.096        | 4.144      | PH       | 2267           | -15474       | -0.07%         | -0.002%       |
| 33        | 4.160       | 4.144        | 4.182      | PH       | -119           | -31093       | -0.15%         | -0.003%       |
| 34        | 4.192       | 4.182        | 4.207      | PH       | -1578          | -29869       | -0.14%         | -0.003%       |
| 35        | 4.223       | 4.207        | 4.244      | PH       | -1253          | -43991       | -0.21%         | -0.005%       |
| 36        | 4.279       | 4.244        | 4.320      | PH       | 1896           | -11325       | -0.05%         | -0.001%       |

|    |       |       |       |    | rteres.txt |         |        |         |
|----|-------|-------|-------|----|------------|---------|--------|---------|
| 37 | 4.337 | 4.320 | 4.354 | PH | 808        | 221     | 0.00%  | 0.000%  |
| 38 | 4.368 | 4.354 | 4.432 | PH | 1508       | -55983  | -0.26% | -0.006% |
| 39 | 4.451 | 4.432 | 4.489 | PH | 3983       | 387     | 0.00%  | 0.000%  |
| 40 | 4.498 | 4.489 | 4.515 | PH | -1944      | -32922  | -0.16% | -0.004% |
| 41 | 4.531 | 4.515 | 4.551 | PH | -479       | -29275  | -0.14% | -0.003% |
| 42 | 4.571 | 4.551 | 4.607 | PH | 1754       | -31725  | -0.15% | -0.003% |
| 43 | 4.618 | 4.607 | 4.684 | PH | -2508      | -132666 | -0.62% | -0.014% |
| 44 | 4.716 | 4.684 | 4.736 | PH | -1653      | -78046  | -0.37% | -0.008% |
| 45 | 4.751 | 4.736 | 4.771 | PH | -1832      | -48939  | -0.23% | -0.005% |
| 46 | 4.804 | 4.771 | 4.867 | PH | 12825      | 145295  | 0.68%  | 0.016%  |
| 47 | 4.887 | 4.867 | 4.953 | PH | 306        | -69501  | -0.33% | -0.007% |
| 48 | 4.985 | 4.953 | 5.019 | PH | -228       | -59693  | -0.28% | -0.006% |
| 49 | 5.029 | 5.019 | 5.065 | PH | -1033      | -60142  | -0.28% | -0.006% |
| 50 | 5.089 | 5.065 | 5.125 | PH | -1226      | -69528  | -0.33% | -0.007% |
| 51 | 5.146 | 5.125 | 5.169 | PH | 5225       | 23220   | 0.11%  | 0.002%  |
| 52 | 5.180 | 5.169 | 5.203 | PH | -640       | -37539  | -0.18% | -0.004% |
| 53 | 5.213 | 5.203 | 5.225 | PH | -3034      | -42253  | -0.20% | -0.005% |
| 54 | 5.249 | 5.225 | 5.276 | PH | -1772      | -77528  | -0.37% | -0.008% |
| 55 | 5.318 | 5.276 | 5.347 | PH | -2117      | -109940 | -0.52% | -0.012% |
| 56 | 5.359 | 5.347 | 5.378 | PH | -2971      | -58614  | -0.28% | -0.006% |
| 57 | 5.389 | 5.378 | 5.398 | PH | -3184      | -38158  | -0.18% | -0.004% |
| 58 | 5.425 | 5.398 | 5.458 | PH | -949       | -71357  | -0.34% | -0.008% |
| 59 | 5.471 | 5.458 | 5.492 | PH | -2247      | -49258  | -0.23% | -0.005% |
| 60 | 5.508 | 5.492 | 5.527 | PH | -2157      | -49405  | -0.23% | -0.005% |
| 61 | 5.541 | 5.527 | 5.568 | PH | -2038      | -60126  | -0.28% | -0.006% |
| 62 | 5.589 | 5.568 | 5.613 | PH | -2041      | -71735  | -0.34% | -0.008% |
| 63 | 5.634 | 5.613 | 5.658 | PH | -2170      | -72109  | -0.34% | -0.008% |
| 64 | 5.685 | 5.658 | 5.752 | PH | 28541      | 399943  | 1.88%  | 0.043%  |
| 65 | 5.773 | 5.752 | 5.798 | HH | 781        | -237    | -0.00% | -0.000% |
| 66 | 5.844 | 5.798 | 5.884 | PH | 2531       | -11461  | -0.05% | -0.001% |
| 67 | 5.912 | 5.884 | 5.930 | PH | -778       | -36785  | -0.17% | -0.004% |
| 68 | 5.940 | 5.930 | 5.962 | PH | -1582      | -35275  | -0.17% | -0.004% |
| 69 | 5.983 | 5.962 | 5.992 | PH | -1735      | -35009  | -0.16% | -0.004% |
| 70 | 6.017 | 5.992 | 6.089 | PH | 924        | -71064  | -0.33% | -0.008% |
| 71 | 6.117 | 6.089 | 6.164 | PH | 4041       | -12273  | -0.06% | -0.001% |
| 72 | 6.187 | 6.164 | 6.217 | PH | -1837      | -65249  | -0.31% | -0.007% |
| 73 | 6.230 | 6.217 | 6.242 | PH | -1880      | -33122  | -0.16% | -0.004% |
| 74 | 6.264 | 6.242 | 6.371 | PH | 1960       | -107767 | -0.51% | -0.012% |
| 75 | 6.388 | 6.371 | 6.407 | PH | -2276      | -59471  | -0.28% | -0.006% |
| 76 | 6.426 | 6.407 | 6.448 | PH | -1638      | -60960  | -0.29% | -0.007% |
| 77 | 6.455 | 6.448 | 6.467 | PH | -2735      | -31712  | -0.15% | -0.003% |
| 78 | 6.485 | 6.467 | 6.540 | PH | -1439      | -102507 | -0.48% | -0.011% |
| 79 | 6.554 | 6.540 | 6.572 | PH | -2601      | -56376  | -0.27% | -0.006% |
| 80 | 6.587 | 6.572 | 6.600 | PH | -2747      | -48393  | -0.23% | -0.005% |
| 81 | 6.663 | 6.600 | 6.686 | PH | -927       | -92381  | -0.44% | -0.010% |
| 82 | 6.734 | 6.686 | 6.788 | PH | 17653      | 227221  | 1.07%  | 0.024%  |
| 83 | 6.811 | 6.788 | 6.838 | PH | 6161       | 52120   | 0.25%  | 0.006%  |
| 84 | 6.862 | 6.838 | 6.901 | PH | 20345      | 254488  | 1.20%  | 0.027%  |
| 85 | 6.913 | 6.901 | 6.953 | HH | 648        | -8775   | -0.04% | -0.001% |
| 86 | 6.969 | 6.953 | 6.990 | PH | -1044      | -30213  | -0.14% | -0.003% |
| 87 | 7.005 | 6.990 | 7.014 | PH | -781       | -18024  | -0.08% | -0.002% |
| 88 | 7.034 | 7.014 | 7.078 | PH | 5330       | 3315    | 0.02%  | 0.000%  |
| 89 | 7.153 | 7.078 | 7.180 | PH | -428       | -76915  | -0.36% | -0.008% |

|     |        |        |        |    |            |         |        |         |
|-----|--------|--------|--------|----|------------|---------|--------|---------|
|     |        |        |        |    | rteres.txt |         |        |         |
| 90  | 7.202  | 7.180  | 7.229  | PH | 38         | -29675  | -0.14% | -0.003% |
| 91  | 7.245  | 7.229  | 7.263  | PH | -1678      | -39401  | -0.19% | -0.004% |
| 92  | 7.304  | 7.263  | 7.348  | PH | -111       | -82309  | -0.39% | -0.009% |
| 93  | 7.362  | 7.348  | 7.376  | PH | -1790      | -37231  | -0.18% | -0.004% |
| 94  | 7.392  | 7.376  | 7.409  | PH | -2107      | -45600  | -0.21% | -0.005% |
| 95  | 7.461  | 7.409  | 7.532  | PH | 3153       | 19920   | 0.09%  | 0.002%  |
| 96  | 7.553  | 7.532  | 7.565  | PH | -715       | -17634  | -0.08% | -0.002% |
| 97  | 7.611  | 7.565  | 7.636  | PH | 3339       | 46311   | 0.22%  | 0.005%  |
| 98  | 7.649  | 7.636  | 7.669  | HH | 1108       | 3313    | 0.02%  | 0.000%  |
| 99  | 7.719  | 7.669  | 7.775  | PH | 10952      | 173096  | 0.82%  | 0.019%  |
| 100 | 7.817  | 7.775  | 7.835  | PH | 27025      | 348486  | 1.64%  | 0.037%  |
| 101 | 7.846  | 7.835  | 7.879  | HH | 14435      | 242727  | 1.14%  | 0.026%  |
| 102 | 7.898  | 7.879  | 7.935  | HH | 12244      | 170628  | 0.80%  | 0.018%  |
| 103 | 7.963  | 7.935  | 7.984  | HH | 193518     | 2211389 | 10.42% | 0.238%  |
| 104 | 7.996  | 7.984  | 8.070  | HH | 53357      | 956008  | 4.50%  | 0.103%  |
| 105 | 8.090  | 8.070  | 8.118  | HH | 6470       | 92386   | 0.44%  | 0.010%  |
| 106 | 8.135  | 8.118  | 8.207  | HH | 2053       | -11602  | -0.05% | -0.001% |
| 107 | 8.248  | 8.207  | 8.262  | PH | 957        | -12281  | -0.06% | -0.001% |
| 108 | 8.289  | 8.262  | 8.331  | PH | 61882      | 834233  | 3.93%  | 0.090%  |
| 109 | 8.349  | 8.331  | 8.376  | HH | 9478       | 171780  | 0.81%  | 0.018%  |
| 110 | 8.391  | 8.376  | 8.409  | HH | 5119       | 83559   | 0.39%  | 0.009%  |
| 111 | 8.431  | 8.409  | 8.469  | HH | 9391       | 152683  | 0.72%  | 0.016%  |
| 112 | 8.484  | 8.469  | 8.506  | HH | 2095       | 25912   | 0.12%  | 0.003%  |
| 113 | 8.532  | 8.506  | 8.550  | HH | 11870      | 158289  | 0.75%  | 0.017%  |
| 114 | 8.570  | 8.550  | 8.598  | HH | 28315      | 433303  | 2.04%  | 0.047%  |
| 115 | 8.612  | 8.598  | 8.683  | HH | 7621       | 246490  | 1.16%  | 0.027%  |
| 116 | 8.715  | 8.683  | 8.732  | HH | 14845      | 262785  | 1.24%  | 0.028%  |
| 117 | 8.745  | 8.732  | 8.797  | HH | 11270      | 176408  | 0.83%  | 0.019%  |
| 118 | 8.814  | 8.797  | 8.828  | HH | 734        | 10770   | 0.05%  | 0.001%  |
| 119 | 8.856  | 8.828  | 8.876  | HH | 11474      | 144621  | 0.68%  | 0.016%  |
| 120 | 8.894  | 8.876  | 8.924  | HH | 8125       | 123460  | 0.58%  | 0.013%  |
| 121 | 8.946  | 8.924  | 8.959  | HH | 3685       | 53645   | 0.25%  | 0.006%  |
| 122 | 8.991  | 8.959  | 9.019  | HH | 12093      | 221883  | 1.05%  | 0.024%  |
| 123 | 9.035  | 9.019  | 9.049  | HH | 3893       | 50417   | 0.24%  | 0.005%  |
| 124 | 9.075  | 9.049  | 9.123  | HH | 59761      | 989330  | 4.66%  | 0.106%  |
| 125 | 9.152  | 9.123  | 9.172  | HH | 16553      | 287275  | 1.35%  | 0.031%  |
| 126 | 9.193  | 9.172  | 9.201  | HH | 9269       | 144039  | 0.68%  | 0.015%  |
| 127 | 9.222  | 9.201  | 9.248  | HH | 23109      | 385830  | 1.82%  | 0.042%  |
| 128 | 9.281  | 9.248  | 9.306  | HH | 12660      | 290950  | 1.37%  | 0.031%  |
| 129 | 9.324  | 9.306  | 9.358  | HH | 8179       | 195666  | 0.92%  | 0.021%  |
| 130 | 9.398  | 9.358  | 9.464  | HH | 23706      | 631581  | 2.97%  | 0.068%  |
| 131 | 9.497  | 9.464  | 9.531  | HH | 35341      | 659785  | 3.11%  | 0.071%  |
| 132 | 9.558  | 9.531  | 9.601  | HH | 12947      | 400163  | 1.88%  | 0.043%  |
| 133 | 9.629  | 9.601  | 9.741  | HH | 28720      | 823638  | 3.88%  | 0.089%  |
| 134 | 9.761  | 9.741  | 9.795  | HH | 3416       | 97440   | 0.46%  | 0.010%  |
| 135 | 9.818  | 9.795  | 9.830  | HH | 7401       | 115384  | 0.54%  | 0.012%  |
| 136 | 9.835  | 9.830  | 9.849  | HH | 6552       | 70944   | 0.33%  | 0.008%  |
| 137 | 9.872  | 9.849  | 9.900  | HH | 9985       | 245900  | 1.16%  | 0.026%  |
| 138 | 9.955  | 9.900  | 9.981  | HH | 21750      | 688225  | 3.24%  | 0.074%  |
| 139 | 9.997  | 9.981  | 10.041 | HH | 16798      | 400524  | 1.89%  | 0.043%  |
| 140 | 10.071 | 10.041 | 10.101 | HH | 21889      | 507590  | 2.39%  | 0.055%  |
| 141 | 10.142 | 10.101 | 10.173 | HH | 48762      | 1086648 | 5.12%  | 0.117%  |

| rteres.txt |        |        |        |    |         |          |        |        |
|------------|--------|--------|--------|----|---------|----------|--------|--------|
| 142        | 10.191 | 10.173 | 10.213 | HH | 26544   | 531698   | 2.50%  | 0.057% |
| 143        | 10.235 | 10.213 | 10.253 | HH | 35772   | 640149   | 3.02%  | 0.069% |
| 144        | 10.277 | 10.253 | 10.359 | HH | 54268   | 1713499  | 8.07%  | 0.184% |
| 145        | 10.376 | 10.359 | 10.392 | HH | 20045   | 298431   | 1.41%  | 0.032% |
| 146        | 10.405 | 10.392 | 10.423 | HH | 14210   | 255617   | 1.20%  | 0.027% |
| 147        | 10.471 | 10.423 | 10.518 | HH | 893003  | 11229125 | 52.89% | 1.208% |
| 148        | 10.546 | 10.518 | 10.596 | HH | 178489  | 3019066  | 14.22% | 0.325% |
| 149        | 10.610 | 10.596 | 10.632 | HH | 20327   | 385617   | 1.82%  | 0.041% |
| 150        | 10.644 | 10.632 | 10.713 | HH | 15590   | 587135   | 2.77%  | 0.063% |
| 151        | 10.782 | 10.713 | 10.847 | HH | 90395   | 2337535  | 11.01% | 0.251% |
| 152        | 10.867 | 10.847 | 10.887 | HH | 20645   | 420617   | 1.98%  | 0.045% |
| 153        | 10.904 | 10.887 | 10.913 | HH | 19720   | 268664   | 1.27%  | 0.029% |
| 154        | 10.929 | 10.913 | 10.947 | HH | 24679   | 406836   | 1.92%  | 0.044% |
| 155        | 10.981 | 10.947 | 11.015 | HH | 92089   | 2171883  | 10.23% | 0.234% |
| 156        | 11.030 | 11.015 | 11.055 | HH | 63932   | 1028160  | 4.84%  | 0.111% |
| 157        | 11.070 | 11.055 | 11.089 | HH | 27705   | 486727   | 2.29%  | 0.052% |
| 158        | 11.121 | 11.089 | 11.146 | HH | 38415   | 908580   | 4.28%  | 0.098% |
| 159        | 11.173 | 11.146 | 11.205 | HH | 38259   | 894452   | 4.21%  | 0.096% |
| 160        | 11.234 | 11.205 | 11.243 | HH | 21304   | 467586   | 2.20%  | 0.050% |
| 161        | 11.269 | 11.243 | 11.285 | HH | 131766  | 1778579  | 8.38%  | 0.191% |
| 162        | 11.301 | 11.285 | 11.348 | HH | 154401  | 2549209  | 12.01% | 0.274% |
| 163        | 11.378 | 11.348 | 11.401 | HH | 151091  | 2459340  | 11.58% | 0.265% |
| 164        | 11.418 | 11.401 | 11.432 | HH | 89740   | 1194625  | 5.63%  | 0.129% |
| 165        | 11.449 | 11.432 | 11.506 | HH | 118703  | 2369709  | 11.16% | 0.255% |
| 166        | 11.528 | 11.506 | 11.544 | HH | 23013   | 432414   | 2.04%  | 0.047% |
| 167        | 11.563 | 11.544 | 11.581 | HH | 30164   | 574126   | 2.70%  | 0.062% |
| 168        | 11.605 | 11.581 | 11.626 | HH | 35834   | 795228   | 3.75%  | 0.086% |
| 169        | 11.659 | 11.626 | 11.702 | HH | 89434   | 2293355  | 10.80% | 0.247% |
| 170        | 11.740 | 11.702 | 11.762 | HH | 90168   | 2035997  | 9.59%  | 0.219% |
| 171        | 11.780 | 11.762 | 11.843 | HH | 65177   | 1910976  | 9.00%  | 0.206% |
| 172        | 11.891 | 11.843 | 11.957 | HH | 225305  | 5046381  | 23.77% | 0.543% |
| 173        | 11.993 | 11.957 | 12.005 | HH | 38936   | 931456   | 4.39%  | 0.100% |
| 174        | 12.016 | 12.005 | 12.040 | HH | 37427   | 714509   | 3.37%  | 0.077% |
| 175        | 12.061 | 12.040 | 12.101 | HH | 56326   | 1500218  | 7.07%  | 0.161% |
| 176        | 12.168 | 12.101 | 12.191 | HH | 114113  | 3588340  | 16.90% | 0.386% |
| 177        | 12.209 | 12.191 | 12.221 | HH | 59622   | 973230   | 4.58%  | 0.105% |
| 178        | 12.237 | 12.221 | 12.257 | HH | 74099   | 1270327  | 5.98%  | 0.137% |
| 179        | 12.294 | 12.257 | 12.355 | HH | 1251898 | 18120212 | 85.35% | 1.949% |
| 180        | 12.381 | 12.355 | 12.408 | HH | 43547   | 1090679  | 5.14%  | 0.117% |
| 181        | 12.448 | 12.408 | 12.458 | HH | 56996   | 1340609  | 6.31%  | 0.144% |
| 182        | 12.475 | 12.458 | 12.495 | HH | 72479   | 1290107  | 6.08%  | 0.139% |
| 183        | 12.505 | 12.495 | 12.516 | HH | 50055   | 596248   | 2.81%  | 0.064% |
| 184        | 12.533 | 12.516 | 12.555 | HH | 61189   | 1192137  | 5.62%  | 0.128% |
| 185        | 12.588 | 12.555 | 12.618 | HH | 1061124 | 14606811 | 68.80% | 1.571% |
| 186        | 12.640 | 12.618 | 12.656 | HH | 130301  | 2040632  | 9.61%  | 0.220% |
| 187        | 12.672 | 12.656 | 12.708 | HH | 147129  | 2585779  | 12.18% | 0.278% |
| 188        | 12.722 | 12.708 | 12.731 | HH | 35668   | 480431   | 2.26%  | 0.052% |
| 189        | 12.761 | 12.731 | 12.787 | HH | 70941   | 1660351  | 7.82%  | 0.179% |
| 190        | 12.808 | 12.787 | 12.830 | HH | 50463   | 1125722  | 5.30%  | 0.121% |
| 191        | 12.856 | 12.830 | 12.897 | HH | 116674  | 2654522  | 12.50% | 0.286% |
| 192        | 12.922 | 12.897 | 12.935 | HH | 55051   | 1108518  | 5.22%  | 0.119% |
| 193        | 12.956 | 12.935 | 12.968 | HH | 60506   | 1133723  | 5.34%  | 0.122% |
| 194        | 12.983 | 12.968 | 13.017 | HH | 68191   | 1644091  | 7.74%  | 0.177% |

| rteres.txt |        |        |        |    |        |          |         |        |
|------------|--------|--------|--------|----|--------|----------|---------|--------|
| 195        | 13.044 | 13.017 | 13.070 | HH | 105701 | 2276051  | 10.72%  | 0.245% |
| 196        | 13.095 | 13.070 | 13.118 | HH | 72301  | 1577652  | 7.43%   | 0.170% |
| 197        | 13.175 | 13.118 | 13.217 | HH | 187971 | 5134828  | 24.19%  | 0.552% |
| 198        | 13.238 | 13.217 | 13.257 | HH | 54990  | 1149940  | 5.42%   | 0.124% |
| 199        | 13.281 | 13.257 | 13.299 | HH | 110775 | 1828329  | 8.61%   | 0.197% |
| 200        | 13.319 | 13.299 | 13.339 | HH | 126560 | 2138646  | 10.07%  | 0.230% |
| 201        | 13.349 | 13.339 | 13.375 | HH | 71116  | 1256143  | 5.92%   | 0.135% |
| 202        | 13.443 | 13.375 | 13.468 | HH | 126973 | 4308245  | 20.29%  | 0.463% |
| 203        | 13.488 | 13.468 | 13.523 | HH | 99622  | 2218020  | 10.45%  | 0.239% |
| 204        | 13.547 | 13.523 | 13.562 | HH | 49102  | 1097139  | 5.17%   | 0.118% |
| 205        | 13.604 | 13.562 | 13.634 | HH | 54788  | 2117787  | 9.98%   | 0.228% |
| 206        | 13.655 | 13.634 | 13.667 | HH | 46697  | 867969   | 4.09%   | 0.093% |
| 207        | 13.681 | 13.667 | 13.742 | HH | 48331  | 1901124  | 8.95%   | 0.204% |
| 208        | 13.767 | 13.742 | 13.782 | HH | 50777  | 1131115  | 5.33%   | 0.122% |
| 209        | 13.798 | 13.782 | 13.812 | HH | 48479  | 849635   | 4.00%   | 0.091% |
| 210        | 13.836 | 13.812 | 13.854 | HH | 75587  | 1638086  | 7.72%   | 0.176% |
| 211        | 13.886 | 13.854 | 13.908 | HH | 69766  | 2166284  | 10.20%  | 0.233% |
| 212        | 13.928 | 13.908 | 13.962 | HH | 139067 | 2882255  | 13.58%  | 0.310% |
| 213        | 13.993 | 13.962 | 14.060 | HH | 70744  | 3520883  | 16.58%  | 0.379% |
| 214        | 14.091 | 14.060 | 14.118 | HH | 141837 | 3242308  | 15.27%  | 0.349% |
| 215        | 14.144 | 14.118 | 14.172 | HH | 183638 | 3871997  | 18.24%  | 0.416% |
| 216        | 14.205 | 14.172 | 14.221 | HH | 106272 | 2502610  | 11.79%  | 0.269% |
| 217        | 14.239 | 14.221 | 14.287 | HH | 151693 | 3707990  | 17.47%  | 0.399% |
| 218        | 14.334 | 14.287 | 14.370 | HH | 582754 | 10268715 | 48.37%  | 1.105% |
| 219        | 14.382 | 14.370 | 14.404 | HH | 58440  | 1148264  | 5.41%   | 0.124% |
| 220        | 14.466 | 14.404 | 14.482 | HH | 592883 | 10384087 | 48.91%  | 1.117% |
| 221        | 14.508 | 14.482 | 14.554 | HH | 727672 | 13683625 | 64.45%  | 1.472% |
| 222        | 14.577 | 14.554 | 14.598 | HH | 96319  | 2047667  | 9.65%   | 0.220% |
| 223        | 14.622 | 14.598 | 14.642 | HH | 141840 | 2674458  | 12.60%  | 0.288% |
| 224        | 14.658 | 14.642 | 14.698 | HH | 100952 | 2736920  | 12.89%  | 0.294% |
| 225        | 14.734 | 14.698 | 14.755 | HH | 93488  | 2574635  | 12.13%  | 0.277% |
| 226        | 14.809 | 14.755 | 14.877 | HH | 116031 | 6094266  | 28.71%  | 0.656% |
| 227        | 14.915 | 14.877 | 14.997 | HH | 401520 | 10199774 | 48.04%  | 1.097% |
| 228        | 15.022 | 14.997 | 15.031 | HH | 75934  | 1434317  | 6.76%   | 0.154% |
| 229        | 15.064 | 15.031 | 15.084 | HH | 147501 | 3487326  | 16.43%  | 0.375% |
| 230        | 15.100 | 15.084 | 15.115 | HH | 118899 | 1967824  | 9.27%   | 0.212% |
| 231        | 15.137 | 15.115 | 15.159 | HH | 207355 | 3820627  | 18.00%  | 0.411% |
| 232        | 15.174 | 15.159 | 15.209 | HH | 123258 | 2890439  | 13.62%  | 0.311% |
| 233        | 15.228 | 15.209 | 15.252 | HH | 84531  | 2046236  | 9.64%   | 0.220% |
| 234        | 15.297 | 15.252 | 15.338 | HH | 119864 | 5171052  | 24.36%  | 0.556% |
| 235        | 15.372 | 15.338 | 15.399 | HH | 94498  | 3016609  | 14.21%  | 0.324% |
| 236        | 15.431 | 15.399 | 15.445 | HH | 84124  | 2144777  | 10.10%  | 0.231% |
| 237        | 15.461 | 15.445 | 15.502 | HH | 88465  | 2550090  | 12.01%  | 0.274% |
| 238        | 15.551 | 15.502 | 15.593 | HH | 122644 | 4639815  | 21.86%  | 0.499% |
| 239        | 15.614 | 15.593 | 15.659 | HH | 94466  | 3106357  | 14.63%  | 0.334% |
| 240        | 15.695 | 15.659 | 15.705 | HH | 69035  | 1835813  | 8.65%   | 0.197% |
| 241        | 15.737 | 15.705 | 15.762 | HH | 83610  | 2573849  | 12.12%  | 0.277% |
| 242        | 15.798 | 15.762 | 15.807 | HH | 93409  | 2262182  | 10.66%  | 0.243% |
| 243        | 15.829 | 15.807 | 15.864 | HH | 104725 | 3103570  | 14.62%  | 0.334% |
| 244        | 15.928 | 15.864 | 15.973 | HH | 241679 | 8071598  | 38.02%  | 0.868% |
| 245        | 16.034 | 15.973 | 16.130 | HH | 731408 | 21229793 | 100.00% | 2.284% |
| 246        | 16.161 | 16.130 | 16.232 | HH | 178431 | 6557282  | 30.89%  | 0.705% |

| rteres.txt |        |        |        |    |        |          |        |        |
|------------|--------|--------|--------|----|--------|----------|--------|--------|
| 247        | 16.308 | 16.232 | 16.322 | HH | 136814 | 5470155  | 25.77% | 0.588% |
| 248        | 16.351 | 16.322 | 16.382 | HH | 429559 | 8279024  | 39.00% | 0.891% |
| 249        | 16.413 | 16.382 | 16.473 | HH | 577345 | 11760545 | 55.40% | 1.265% |
| 250        | 16.510 | 16.473 | 16.552 | HH | 211334 | 6853387  | 32.28% | 0.737% |
| 251        | 16.576 | 16.552 | 16.610 | HH | 265082 | 5780478  | 27.23% | 0.622% |
| 252        | 16.653 | 16.610 | 16.698 | HH | 121367 | 5649612  | 26.61% | 0.608% |
| 253        | 16.711 | 16.698 | 16.730 | HH | 100421 | 1791265  | 8.44%  | 0.193% |
| 254        | 16.771 | 16.730 | 16.781 | HH | 128343 | 3359445  | 15.82% | 0.361% |
| 255        | 16.795 | 16.781 | 16.834 | HH | 128173 | 3629285  | 17.10% | 0.390% |
| 256        | 16.866 | 16.834 | 16.920 | HH | 445426 | 10819246 | 50.96% | 1.164% |
| 257        | 16.948 | 16.920 | 16.977 | HH | 229136 | 5250297  | 24.73% | 0.565% |
| 258        | 17.003 | 16.977 | 17.019 | HH | 129801 | 2933748  | 13.82% | 0.316% |
| 259        | 17.027 | 17.019 | 17.050 | HH | 119846 | 2068865  | 9.75%  | 0.223% |
| 260        | 17.072 | 17.050 | 17.154 | HH | 122468 | 6528263  | 30.75% | 0.702% |
| 261        | 17.194 | 17.154 | 17.220 | HH | 100460 | 3816252  | 17.98% | 0.411% |
| 262        | 17.245 | 17.220 | 17.272 | HH | 100325 | 3013777  | 14.20% | 0.324% |
| 263        | 17.277 | 17.272 | 17.291 | HH | 96066  | 1090763  | 5.14%  | 0.117% |
| 264        | 17.319 | 17.291 | 17.328 | HH | 105226 | 2256369  | 10.63% | 0.243% |
| 265        | 17.384 | 17.328 | 17.413 | HH | 181299 | 6514958  | 30.69% | 0.701% |
| 266        | 17.432 | 17.413 | 17.447 | HH | 116894 | 2268938  | 10.69% | 0.244% |
| 267        | 17.476 | 17.447 | 17.531 | HH | 198018 | 6957713  | 32.77% | 0.748% |
| 268        | 17.589 | 17.531 | 17.638 | HH | 165655 | 8301627  | 39.10% | 0.893% |
| 269        | 17.694 | 17.638 | 17.711 | HH | 226032 | 6535681  | 30.79% | 0.703% |
| 270        | 17.745 | 17.711 | 17.770 | HH | 340441 | 8688450  | 40.93% | 0.935% |
| 271        | 17.797 | 17.770 | 17.854 | HH | 492791 | 14201839 | 66.90% | 1.528% |
| 272        | 17.866 | 17.854 | 17.887 | HH | 141582 | 2745744  | 12.93% | 0.295% |
| 273        | 17.921 | 17.887 | 17.938 | HH | 201518 | 4861243  | 22.90% | 0.523% |
| 274        | 17.952 | 17.938 | 17.978 | HH | 178484 | 3710442  | 17.48% | 0.399% |
| 275        | 17.997 | 17.978 | 18.017 | HH | 134298 | 2965156  | 13.97% | 0.319% |
| 276        | 18.047 | 18.017 | 18.098 | HH | 393920 | 9535916  | 44.92% | 1.026% |
| 277        | 18.184 | 18.098 | 18.258 | HH | 239208 | 15042346 | 70.85% | 1.618% |
| 278        | 18.316 | 18.258 | 18.346 | HH | 312771 | 9245754  | 43.55% | 0.995% |
| 279        | 18.374 | 18.346 | 18.415 | HH | 168522 | 5891534  | 27.75% | 0.634% |
| 280        | 18.422 | 18.415 | 18.448 | HH | 121599 | 2358035  | 11.11% | 0.254% |
| 281        | 18.492 | 18.448 | 18.518 | HH | 152406 | 5708458  | 26.89% | 0.614% |
| 282        | 18.569 | 18.518 | 18.598 | HH | 489880 | 14554559 | 68.56% | 1.566% |
| 283        | 18.613 | 18.598 | 18.650 | HH | 234305 | 6292917  | 29.64% | 0.677% |
| 284        | 18.671 | 18.650 | 18.700 | HH | 184854 | 4949133  | 23.31% | 0.532% |
| 285        | 18.735 | 18.700 | 18.781 | HH | 167876 | 6918943  | 32.59% | 0.744% |
| 286        | 18.810 | 18.781 | 18.861 | HH | 164669 | 6524970  | 30.73% | 0.702% |
| 287        | 18.888 | 18.861 | 18.905 | HH | 137230 | 3360603  | 15.83% | 0.361% |
| 288        | 18.922 | 18.905 | 18.944 | HH | 133686 | 3027135  | 14.26% | 0.326% |
| 289        | 18.995 | 18.944 | 19.015 | HH | 143401 | 5496322  | 25.89% | 0.591% |
| 290        | 19.046 | 19.015 | 19.083 | HH | 227200 | 6991470  | 32.93% | 0.752% |
| 291        | 19.107 | 19.083 | 19.142 | HH | 169684 | 5100731  | 24.03% | 0.549% |
| 292        | 19.161 | 19.142 | 19.174 | HH | 140589 | 2625695  | 12.37% | 0.282% |
| 293        | 19.210 | 19.174 | 19.249 | HH | 239316 | 8072338  | 38.02% | 0.868% |
| 294        | 19.280 | 19.249 | 19.302 | HH | 239742 | 6082032  | 28.65% | 0.654% |
| 295        | 19.313 | 19.302 | 19.325 | HH | 194492 | 2634032  | 12.41% | 0.283% |
| 296        | 19.347 | 19.325 | 19.384 | HH | 277237 | 8113942  | 38.22% | 0.873% |
| 297        | 19.400 | 19.384 | 19.452 | HH | 208252 | 6802690  | 32.04% | 0.732% |
| 298        | 19.499 | 19.452 | 19.534 | HH | 160709 | 6848125  | 32.26% | 0.737% |
| 299        | 19.547 | 19.534 | 19.563 | HH | 128284 | 2234129  | 10.52% | 0.240% |

| rteres.txt |        |        |        |    |        |          |        |        |
|------------|--------|--------|--------|----|--------|----------|--------|--------|
| 300        | 19.595 | 19.563 | 19.642 | HH | 279081 | 8970258  | 42.25% | 0.965% |
| 301        | 19.668 | 19.642 | 19.688 | HH | 182863 | 4656931  | 21.94% | 0.501% |
| 302        | 19.699 | 19.688 | 19.720 | HH | 164496 | 3003786  | 14.15% | 0.323% |
| 303        | 19.736 | 19.720 | 19.800 | HH | 157032 | 6911730  | 32.56% | 0.743% |
| 304        | 19.853 | 19.800 | 19.870 | HH | 144165 | 5593314  | 26.35% | 0.602% |
| 305        | 19.882 | 19.870 | 19.931 | HH | 142115 | 4906119  | 23.11% | 0.528% |
| 306        | 19.958 | 19.931 | 19.975 | HH | 133264 | 3430934  | 16.16% | 0.369% |
| 307        | 19.985 | 19.975 | 19.995 | HH | 129740 | 1514509  | 7.13%  | 0.163% |
| 308        | 20.007 | 19.995 | 20.027 | HH | 129602 | 2473479  | 11.65% | 0.266% |
| 309        | 20.114 | 20.027 | 20.153 | HH | 190022 | 11321751 | 53.33% | 1.218% |
| 310        | 20.176 | 20.153 | 20.198 | HH | 133115 | 3560889  | 16.77% | 0.383% |
| 311        | 20.234 | 20.198 | 20.295 | HH | 143888 | 8044978  | 37.89% | 0.865% |
| 312        | 20.331 | 20.295 | 20.356 | HH | 140009 | 4974347  | 23.43% | 0.535% |
| 313        | 20.376 | 20.356 | 20.398 | HH | 140162 | 3483122  | 16.41% | 0.375% |
| 314        | 20.426 | 20.398 | 20.505 | HH | 161947 | 8948189  | 42.15% | 0.963% |
| 315        | 20.517 | 20.505 | 20.545 | HH | 130817 | 3096931  | 14.59% | 0.333% |
| 316        | 20.593 | 20.545 | 20.643 | HH | 148589 | 8185545  | 38.56% | 0.880% |
| 317        | 20.669 | 20.643 | 20.715 | HH | 144222 | 5852785  | 27.57% | 0.630% |
| 318        | 20.772 | 20.715 | 20.808 | HH | 142146 | 7571956  | 35.67% | 0.814% |
| 319        | 20.868 | 20.808 | 20.880 | HH | 162583 | 6489612  | 30.57% | 0.698% |
| 320        | 20.909 | 20.880 | 20.928 | HH | 166517 | 4694171  | 22.11% | 0.505% |
| 321        | 20.955 | 20.928 | 20.998 | HH | 173864 | 6605511  | 31.11% | 0.711% |
| 322        | 21.025 | 20.998 | 21.069 | HH | 145887 | 5842326  | 27.52% | 0.628% |
| 323        | 21.107 | 21.069 | 21.127 | HH | 136857 | 4567993  | 21.52% | 0.491% |
| 324        | 21.152 | 21.127 | 21.182 | HH | 140356 | 4397157  | 20.71% | 0.473% |
| 325        | 21.227 | 21.182 | 21.266 | HH | 168521 | 7450803  | 35.10% | 0.801% |
| 326        | 21.291 | 21.266 | 21.335 | HH | 150446 | 5772473  | 27.19% | 0.621% |
| 327        | 21.350 | 21.335 | 21.377 | HH | 131214 | 3230761  | 15.22% | 0.348% |
| 328        | 21.403 | 21.377 | 21.410 | HH | 129324 | 2528272  | 11.91% | 0.272% |
| 329        | 21.427 | 21.410 | 21.532 | HH | 130823 | 8633565  | 40.67% | 0.929% |
| 330        | 21.597 | 21.532 | 21.624 | HH | 113774 | 6190542  | 29.16% | 0.666% |
| 331        | 21.645 | 21.624 | 21.672 | HH | 116734 | 3343009  | 15.75% | 0.360% |
| 332        | 21.696 | 21.672 | 21.810 | HH | 116444 | 9203396  | 43.35% | 0.990% |
| 333        | 21.850 | 21.810 | 21.913 | HH | 108522 | 6566100  | 30.93% | 0.706% |
| 334        | 21.963 | 21.913 | 21.978 | HH | 105267 | 4042220  | 19.04% | 0.435% |
| 335        | 22.030 | 21.978 | 22.068 | HH | 105252 | 5584132  | 26.30% | 0.601% |
| 336        | 22.075 | 22.068 | 22.096 | HH | 100811 | 1628610  | 7.67%  | 0.175% |
| 337        | 22.122 | 22.096 | 22.164 | HH | 99249  | 4035521  | 19.01% | 0.434% |
| 338        | 22.188 | 22.164 | 22.202 | HH | 99548  | 2277327  | 10.73% | 0.245% |
| 339        | 22.238 | 22.202 | 22.273 | HH | 101143 | 4227144  | 19.91% | 0.455% |
| 340        | 22.309 | 22.273 | 22.353 | HH | 99486  | 4752703  | 22.39% | 0.511% |
| 341        | 22.387 | 22.353 | 22.446 | HH | 98353  | 5349328  | 25.20% | 0.575% |
| 342        | 22.511 | 22.446 | 22.533 | HH | 99451  | 5085442  | 23.95% | 0.547% |
| 343        | 22.577 | 22.533 | 22.625 | HH | 99466  | 5439357  | 25.62% | 0.585% |
| 344        | 22.636 | 22.625 | 22.666 | HH | 97044  | 2364541  | 11.14% | 0.254% |
| 345        | 22.708 | 22.666 | 22.742 | HH | 100666 | 4471707  | 21.06% | 0.481% |
| 346        | 22.787 | 22.742 | 22.866 | HH | 103041 | 7373513  | 34.73% | 0.793% |
| 347        | 22.911 | 22.866 | 22.923 | HH | 98644  | 3291297  | 15.50% | 0.354% |
| 348        | 22.930 | 22.923 | 23.026 | HH | 97729  | 5763593  | 27.15% | 0.620% |
| 349        | 23.034 | 23.026 | 23.118 | HH | 89697  | 4878649  | 22.98% | 0.525% |
| 350        | 23.222 | 23.118 | 23.244 | HH | 91999  | 6831168  | 32.18% | 0.735% |
| 351        | 23.292 | 23.244 | 23.306 | HH | 97138  | 3486972  | 16.42% | 0.375% |

| rteres.txt              |        |        |        |    |       |         |           |        |
|-------------------------|--------|--------|--------|----|-------|---------|-----------|--------|
| 352                     | 23.323 | 23.306 | 23.374 | HH | 97501 | 3883343 | 18.29%    | 0.418% |
| 353                     | 23.401 | 23.374 | 23.445 | HH | 92181 | 3846051 | 18.12%    | 0.414% |
| 354                     | 23.455 | 23.445 | 23.478 | HH | 89647 | 1814179 | 8.55%     | 0.195% |
| 355                     | 23.502 | 23.478 | 23.532 | HH | 89947 | 2851213 | 13.43%    | 0.307% |
| 356                     | 23.540 | 23.532 | 23.555 | HH | 88291 | 1228563 | 5.79%     | 0.132% |
| 357                     | 23.574 | 23.555 | 23.652 | HH | 88627 | 4999460 | 23.55%    | 0.538% |
| Sum of corrected areas: |        |        |        |    |       |         | 929655523 |        |

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