

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG080618\  
 Data File : FG001979.D  
 Signal(s) : FID1A.ch  
 Acq On : 07 Aug 2018 00:42  
 Sample : J4305-16  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.e

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

Signal : FID1A.ch

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 2.226       | 2.175        | 2.274      | BH       | 4479           | -37669       | -0.06%         | -0.002%       |
| 2         | 2.290       | 2.274        | 2.320      | PH       | -1434          | -49759       | -0.07%         | -0.002%       |
| 3         | 2.347       | 2.320        | 2.357      | PH       | -1392          | -39942       | -0.06%         | -0.002%       |
| 4         | 2.388       | 2.357        | 2.415      | PH       | 429            | -36820       | -0.05%         | -0.002%       |
| 5         | 2.435       | 2.415        | 2.458      | PH       | 567            | -26533       | -0.04%         | -0.001%       |
| 6         | 2.481       | 2.458        | 2.514      | PH       | 7570           | 42947        | 0.06%          | 0.002%        |
| 7         | 2.531       | 2.514        | 2.544      | PH       | 5613           | 25227        | 0.04%          | 0.001%        |
| 8         | 2.556       | 2.544        | 2.627      | PH       | 1607           | -54355       | -0.08%         | -0.003%       |
| 9         | 2.659       | 2.627        | 2.725      | PH       | -199           | -117609      | -0.17%         | -0.005%       |
| 10        | 2.745       | 2.725        | 2.771      | PH       | 5534           | 42414        | 0.06%          | 0.002%        |
| 11        | 2.780       | 2.771        | 2.788      | PH       | -776           | -12820       | -0.02%         | -0.001%       |
| 12        | 2.801       | 2.788        | 2.821      | PH       | 1671           | -9800        | -0.01%         | -0.000%       |
| 13        | 2.840       | 2.821        | 2.880      | PH       | -592           | -47694       | -0.07%         | -0.002%       |
| 14        | 2.913       | 2.880        | 2.937      | PH       | 951            | -21002       | -0.03%         | -0.001%       |
| 15        | 2.956       | 2.937        | 2.977      | PH       | 7309           | 51205        | 0.08%          | 0.002%        |
| 16        | 2.992       | 2.977        | 3.001      | PH       | 3              | -7696        | -0.01%         | -0.000%       |
| 17        | 3.021       | 3.001        | 3.068      | PH       | 2310           | -7048        | -0.01%         | -0.000%       |
| 18        | 3.098       | 3.068        | 3.120      | PH       | -119           | -50265       | -0.07%         | -0.002%       |
| 19        | 3.137       | 3.120        | 3.170      | PH       | 1569           | -35444       | -0.05%         | -0.002%       |
| 20        | 3.196       | 3.170        | 3.273      | PH       | 3857           | -10988       | -0.02%         | -0.001%       |
| 21        | 3.312       | 3.273        | 3.324      | PH       | 570            | -42694       | -0.06%         | -0.002%       |
| 22        | 3.336       | 3.324        | 3.355      | PH       | 1005           | -15468       | -0.02%         | -0.001%       |
| 23        | 3.376       | 3.355        | 3.431      | PH       | 2901           | -14844       | -0.02%         | -0.001%       |
| 24        | 3.452       | 3.431        | 3.479      | PH       | 5714           | 46132        | 0.07%          | 0.002%        |
| 25        | 3.512       | 3.479        | 3.541      | PH       | 797            | -12012       | -0.02%         | -0.001%       |
| 26        | 3.558       | 3.541        | 3.601      | PH       | 6425           | 50443        | 0.07%          | 0.002%        |
| 27        | 3.626       | 3.601        | 3.635      | PH       | 2234           | 10459        | 0.02%          | 0.000%        |
| 28        | 3.643       | 3.635        | 3.658      | HH       | 1959           | 13847        | 0.02%          | 0.001%        |
| 29        | 3.674       | 3.658        | 3.700      | PH       | 2515           | 10206        | 0.02%          | 0.000%        |
| 30        | 3.716       | 3.700        | 3.735      | PH       | 3800           | 9024         | 0.01%          | 0.000%        |
| 31        | 3.759       | 3.735        | 3.809      | PH       | 6646           | 43025        | 0.06%          | 0.002%        |
| 32        | 3.845       | 3.809        | 3.854      | PH       | 4341           | 35602        | 0.05%          | 0.002%        |
| 33        | 3.871       | 3.854        | 3.916      | HH       | 9804           | 182633       | 0.27%          | 0.008%        |
| 34        | 3.935       | 3.916        | 3.965      | HH       | 5520           | 67601        | 0.10%          | 0.003%        |
| 35        | 4.006       | 3.965        | 4.029      | PH       | 8538           | 120342       | 0.18%          | 0.006%        |
| 36        | 4.043       | 4.029        | 4.065      | HH       | 5099           | 62580        | 0.09%          | 0.003%        |

|    |       |       |       |    |            |        |        |         |
|----|-------|-------|-------|----|------------|--------|--------|---------|
|    |       |       |       |    | rteres.txt |        |        |         |
| 37 | 4.074 | 4.065 | 4.118 | HH | 1400       | -2446  | -0.00% | -0.000% |
| 38 | 4.150 | 4.118 | 4.174 | PH | 1313       | -5373  | -0.01% | -0.000% |
| 39 | 4.189 | 4.174 | 4.209 | PH | 1538       | 3328   | 0.00%  | 0.000%  |
| 40 | 4.238 | 4.209 | 4.259 | PH | 10113      | 88845  | 0.13%  | 0.004%  |
| 41 | 4.277 | 4.259 | 4.293 | PH | 3307       | 22985  | 0.03%  | 0.001%  |
| 42 | 4.312 | 4.293 | 4.361 | PH | 1676       | 2914   | 0.00%  | 0.000%  |
| 43 | 4.388 | 4.361 | 4.405 | PH | 2019       | 16538  | 0.02%  | 0.001%  |
| 44 | 4.452 | 4.405 | 4.472 | HH | 7639       | 136135 | 0.20%  | 0.006%  |
| 45 | 4.488 | 4.472 | 4.503 | HH | 10318      | 98702  | 0.15%  | 0.005%  |
| 46 | 4.512 | 4.503 | 4.529 | HH | 4390       | 40168  | 0.06%  | 0.002%  |
| 47 | 4.540 | 4.529 | 4.570 | HH | 1003       | 8691   | 0.01%  | 0.000%  |
| 48 | 4.610 | 4.570 | 4.626 | PH | 4295       | 66373  | 0.10%  | 0.003%  |
| 49 | 4.645 | 4.626 | 4.670 | HH | 3010       | 51295  | 0.08%  | 0.002%  |
| 50 | 4.696 | 4.670 | 4.727 | PH | 10035      | 108351 | 0.16%  | 0.005%  |
| 51 | 4.756 | 4.727 | 4.803 | PH | 1123       | -1702  | -0.00% | -0.000% |
| 52 | 4.837 | 4.803 | 4.855 | PH | 2328       | 31580  | 0.05%  | 0.001%  |
| 53 | 4.869 | 4.855 | 4.891 | HH | 3725       | 38542  | 0.06%  | 0.002%  |
| 54 | 4.910 | 4.891 | 4.928 | PH | 5164       | 59520  | 0.09%  | 0.003%  |
| 55 | 4.941 | 4.928 | 4.954 | HH | 3269       | 34366  | 0.05%  | 0.002%  |
| 56 | 4.970 | 4.954 | 5.011 | HH | 4364       | 61578  | 0.09%  | 0.003%  |
| 57 | 5.027 | 5.011 | 5.043 | PH | -78        | -9357  | -0.01% | -0.000% |
| 58 | 5.062 | 5.043 | 5.075 | PH | 850        | 855    | 0.00%  | 0.000%  |
| 59 | 5.090 | 5.075 | 5.110 | PH | 4219       | 44683  | 0.07%  | 0.002%  |
| 60 | 5.147 | 5.110 | 5.169 | HH | 3206       | 67342  | 0.10%  | 0.003%  |
| 61 | 5.185 | 5.169 | 5.202 | PH | 669        | 2381   | 0.00%  | 0.000%  |
| 62 | 5.210 | 5.202 | 5.228 | PH | -240       | -10450 | -0.02% | -0.000% |
| 63 | 5.264 | 5.228 | 5.325 | PH | 19778      | 292622 | 0.43%  | 0.014%  |
| 64 | 5.352 | 5.325 | 5.367 | HH | 6459       | 73252  | 0.11%  | 0.003%  |
| 65 | 5.379 | 5.367 | 5.408 | HH | 2324       | 25962  | 0.04%  | 0.001%  |
| 66 | 5.442 | 5.408 | 5.480 | PH | 9298       | 144455 | 0.21%  | 0.007%  |
| 67 | 5.551 | 5.480 | 5.580 | PH | 8156       | 233217 | 0.34%  | 0.011%  |
| 68 | 5.592 | 5.580 | 5.615 | HH | 2763       | 40354  | 0.06%  | 0.002%  |
| 69 | 5.628 | 5.615 | 5.641 | HH | 2058       | 21523  | 0.03%  | 0.001%  |
| 70 | 5.659 | 5.641 | 5.682 | HH | 3273       | 50469  | 0.07%  | 0.002%  |
| 71 | 5.718 | 5.682 | 5.738 | HH | 3914       | 81526  | 0.12%  | 0.004%  |
| 72 | 5.764 | 5.738 | 5.780 | HH | 5984       | 95577  | 0.14%  | 0.004%  |
| 73 | 5.803 | 5.780 | 5.835 | HH | 78909      | 910971 | 1.34%  | 0.042%  |
| 74 | 5.850 | 5.835 | 5.876 | HH | 6844       | 119063 | 0.18%  | 0.006%  |
| 75 | 5.898 | 5.876 | 5.921 | HH | 9648       | 123244 | 0.18%  | 0.006%  |
| 76 | 5.959 | 5.921 | 6.004 | HH | 5428       | 165260 | 0.24%  | 0.008%  |
| 77 | 6.036 | 6.004 | 6.054 | HH | 6031       | 108997 | 0.16%  | 0.005%  |
| 78 | 6.087 | 6.054 | 6.125 | HH | 4406       | 132139 | 0.19%  | 0.006%  |
| 79 | 6.148 | 6.125 | 6.169 | HH | 6676       | 122943 | 0.18%  | 0.006%  |
| 80 | 6.183 | 6.169 | 6.216 | HH | 4797       | 112061 | 0.16%  | 0.005%  |
| 81 | 6.238 | 6.216 | 6.295 | HH | 24885      | 329833 | 0.49%  | 0.015%  |
| 82 | 6.322 | 6.295 | 6.341 | HH | 3661       | 61441  | 0.09%  | 0.003%  |
| 83 | 6.385 | 6.341 | 6.408 | HH | 17657      | 275352 | 0.40%  | 0.013%  |
| 84 | 6.421 | 6.408 | 6.446 | HH | 4909       | 81748  | 0.12%  | 0.004%  |
| 85 | 6.456 | 6.446 | 6.471 | HH | 2290       | 26023  | 0.04%  | 0.001%  |
| 86 | 6.486 | 6.471 | 6.497 | HH | 2521       | 27620  | 0.04%  | 0.001%  |
| 87 | 6.512 | 6.497 | 6.530 | HH | 4231       | 48808  | 0.07%  | 0.002%  |
| 88 | 6.557 | 6.530 | 6.602 | HH | 9134       | 205514 | 0.30%  | 0.010%  |
| 89 | 6.627 | 6.602 | 6.646 | HH | 5734       | 112296 | 0.17%  | 0.005%  |

| rteres.txt |       |       |       |    |        |         |       |        |
|------------|-------|-------|-------|----|--------|---------|-------|--------|
| 90         | 6.664 | 6.646 | 6.678 | HH | 3611   | 62477   | 0.09% | 0.003% |
| 91         | 6.689 | 6.678 | 6.711 | HH | 3507   | 62729   | 0.09% | 0.003% |
| 92         | 6.738 | 6.711 | 6.774 | HH | 9995   | 276265  | 0.41% | 0.013% |
| 93         | 6.791 | 6.774 | 6.817 | HH | 8651   | 155077  | 0.23% | 0.007% |
| 94         | 6.853 | 6.817 | 6.884 | HH | 82618  | 1041643 | 1.53% | 0.048% |
| 95         | 6.893 | 6.884 | 6.911 | HH | 8494   | 112803  | 0.17% | 0.005% |
| 96         | 6.937 | 6.911 | 6.963 | HH | 29373  | 409747  | 0.60% | 0.019% |
| 97         | 6.986 | 6.963 | 7.020 | HH | 89487  | 1029239 | 1.51% | 0.048% |
| 98         | 7.032 | 7.020 | 7.082 | HH | 6639   | 167028  | 0.25% | 0.008% |
| 99         | 7.102 | 7.082 | 7.116 | HH | 7003   | 101394  | 0.15% | 0.005% |
| 100        | 7.158 | 7.116 | 7.183 | HH | 31639  | 509685  | 0.75% | 0.024% |
| 101        | 7.198 | 7.183 | 7.214 | HH | 5273   | 86399   | 0.13% | 0.004% |
| 102        | 7.233 | 7.214 | 7.265 | HH | 6563   | 148481  | 0.22% | 0.007% |
| 103        | 7.285 | 7.265 | 7.301 | HH | 5368   | 99558   | 0.15% | 0.005% |
| 104        | 7.331 | 7.301 | 7.357 | HH | 10053  | 204523  | 0.30% | 0.010% |
| 105        | 7.376 | 7.357 | 7.396 | HH | 4705   | 92759   | 0.14% | 0.004% |
| 106        | 7.438 | 7.396 | 7.474 | HH | 7670   | 208724  | 0.31% | 0.010% |
| 107        | 7.492 | 7.474 | 7.510 | HH | 7589   | 109786  | 0.16% | 0.005% |
| 108        | 7.523 | 7.510 | 7.539 | HH | 4255   | 64445   | 0.09% | 0.003% |
| 109        | 7.578 | 7.539 | 7.658 | HH | 29901  | 776275  | 1.14% | 0.036% |
| 110        | 7.678 | 7.658 | 7.690 | HH | 6662   | 117700  | 0.17% | 0.005% |
| 111        | 7.730 | 7.690 | 7.764 | HH | 30822  | 652568  | 0.96% | 0.030% |
| 112        | 7.777 | 7.764 | 7.795 | HH | 10351  | 154963  | 0.23% | 0.007% |
| 113        | 7.844 | 7.795 | 7.882 | HH | 54160  | 1266771 | 1.86% | 0.059% |
| 114        | 7.945 | 7.882 | 7.961 | HH | 135707 | 1763717 | 2.59% | 0.082% |
| 115        | 7.973 | 7.961 | 7.992 | HH | 76820  | 857700  | 1.26% | 0.040% |
| 116        | 8.006 | 7.992 | 8.013 | HH | 25688  | 272274  | 0.40% | 0.013% |
| 117        | 8.027 | 8.013 | 8.048 | HH | 38647  | 497129  | 0.73% | 0.023% |
| 118        | 8.090 | 8.048 | 8.108 | HH | 212296 | 2611726 | 3.84% | 0.121% |
| 119        | 8.126 | 8.108 | 8.160 | HH | 110522 | 1820628 | 2.68% | 0.085% |
| 120        | 8.175 | 8.160 | 8.197 | HH | 21186  | 328015  | 0.48% | 0.015% |
| 121        | 8.218 | 8.197 | 8.248 | HH | 30647  | 472451  | 0.69% | 0.022% |
| 122        | 8.266 | 8.248 | 8.326 | HH | 13771  | 359105  | 0.53% | 0.017% |
| 123        | 8.383 | 8.326 | 8.398 | HH | 16837  | 381610  | 0.56% | 0.018% |
| 124        | 8.422 | 8.398 | 8.451 | HH | 294424 | 3203786 | 4.71% | 0.149% |
| 125        | 8.471 | 8.451 | 8.499 | HH | 53778  | 812295  | 1.19% | 0.038% |
| 126        | 8.540 | 8.499 | 8.550 | HH | 26510  | 611929  | 0.90% | 0.028% |
| 127        | 8.562 | 8.550 | 8.599 | HH | 29823  | 556959  | 0.82% | 0.026% |
| 128        | 8.615 | 8.599 | 8.634 | HH | 18204  | 313871  | 0.46% | 0.015% |
| 129        | 8.662 | 8.634 | 8.677 | HH | 60150  | 841466  | 1.24% | 0.039% |
| 130        | 8.695 | 8.677 | 8.722 | HH | 152540 | 1838440 | 2.70% | 0.085% |
| 131        | 8.735 | 8.722 | 8.751 | HH | 20063  | 288283  | 0.42% | 0.013% |
| 132        | 8.762 | 8.751 | 8.770 | HH | 14283  | 156625  | 0.23% | 0.007% |
| 133        | 8.788 | 8.770 | 8.810 | HH | 25767  | 423636  | 0.62% | 0.020% |
| 134        | 8.836 | 8.810 | 8.859 | HH | 63825  | 1213671 | 1.78% | 0.056% |
| 135        | 8.873 | 8.859 | 8.918 | HH | 73740  | 1053810 | 1.55% | 0.049% |
| 136        | 8.947 | 8.918 | 8.960 | HH | 11121  | 238978  | 0.35% | 0.011% |
| 137        | 8.988 | 8.960 | 9.005 | HH | 71167  | 947756  | 1.39% | 0.044% |
| 138        | 9.020 | 9.005 | 9.053 | HH | 58968  | 801806  | 1.18% | 0.037% |
| 139        | 9.072 | 9.053 | 9.087 | HH | 18787  | 280790  | 0.41% | 0.013% |
| 140        | 9.123 | 9.087 | 9.148 | HH | 68688  | 1136597 | 1.67% | 0.053% |
| 141        | 9.165 | 9.148 | 9.179 | HH | 21314  | 302751  | 0.45% | 0.014% |

|     |        |        |        |    | rteres.txt |          |        |        |
|-----|--------|--------|--------|----|------------|----------|--------|--------|
| 142 | 9.206  | 9.179  | 9.256  | HH | 283884     | 3820009  | 5.62%  | 0.178% |
| 143 | 9.284  | 9.256  | 9.300  | HH | 76905      | 1075671  | 1.58%  | 0.050% |
| 144 | 9.324  | 9.300  | 9.336  | HH | 46757      | 865258   | 1.27%  | 0.040% |
| 145 | 9.355  | 9.336  | 9.376  | HH | 104504     | 1466310  | 2.16%  | 0.068% |
| 146 | 9.414  | 9.376  | 9.437  | HH | 71542      | 1459108  | 2.15%  | 0.068% |
| 147 | 9.459  | 9.437  | 9.475  | HH | 24577      | 513806   | 0.76%  | 0.024% |
| 148 | 9.489  | 9.475  | 9.504  | HH | 24163      | 385934   | 0.57%  | 0.018% |
| 149 | 9.528  | 9.504  | 9.564  | HH | 136978     | 2030496  | 2.99%  | 0.094% |
| 150 | 9.581  | 9.564  | 9.598  | HH | 35150      | 539434   | 0.79%  | 0.025% |
| 151 | 9.627  | 9.598  | 9.673  | HH | 208088     | 3516869  | 5.17%  | 0.163% |
| 152 | 9.688  | 9.673  | 9.705  | HH | 49872      | 684542   | 1.01%  | 0.032% |
| 153 | 9.720  | 9.705  | 9.752  | HH | 32714      | 677388   | 1.00%  | 0.031% |
| 154 | 9.792  | 9.752  | 9.861  | HH | 29021      | 1067346  | 1.57%  | 0.050% |
| 155 | 9.896  | 9.861  | 9.921  | HH | 13784      | 447275   | 0.66%  | 0.021% |
| 156 | 9.950  | 9.921  | 9.966  | HH | 35625      | 604292   | 0.89%  | 0.028% |
| 157 | 9.974  | 9.966  | 9.986  | HH | 22826      | 249701   | 0.37%  | 0.012% |
| 158 | 10.012 | 9.986  | 10.035 | HH | 32313      | 772524   | 1.14%  | 0.036% |
| 159 | 10.086 | 10.035 | 10.109 | HH | 109056     | 2580801  | 3.80%  | 0.120% |
| 160 | 10.128 | 10.109 | 10.174 | HH | 77879      | 1546873  | 2.27%  | 0.072% |
| 161 | 10.205 | 10.174 | 10.241 | HH | 93085      | 1974917  | 2.90%  | 0.092% |
| 162 | 10.267 | 10.241 | 10.313 | HH | 235816     | 3805585  | 5.60%  | 0.177% |
| 163 | 10.338 | 10.313 | 10.348 | HH | 39624      | 675193   | 0.99%  | 0.031% |
| 164 | 10.374 | 10.348 | 10.389 | HH | 144303     | 2367915  | 3.48%  | 0.110% |
| 165 | 10.409 | 10.389 | 10.457 | HH | 198075     | 4304310  | 6.33%  | 0.200% |
| 166 | 10.477 | 10.457 | 10.495 | HH | 48683      | 1001994  | 1.47%  | 0.047% |
| 167 | 10.518 | 10.495 | 10.540 | HH | 74093      | 1488072  | 2.19%  | 0.069% |
| 168 | 10.635 | 10.540 | 10.665 | HH | 2546302    | 44305911 | 65.16% | 2.059% |
| 169 | 10.696 | 10.665 | 10.837 | HH | 955469     | 13983728 | 20.56% | 0.650% |
| 170 | 10.864 | 10.837 | 10.884 | HH | 79844      | 1422642  | 2.09%  | 0.066% |
| 171 | 10.909 | 10.884 | 10.942 | HH | 275745     | 4027712  | 5.92%  | 0.187% |
| 172 | 10.972 | 10.942 | 10.987 | HH | 46104      | 1045515  | 1.54%  | 0.049% |
| 173 | 11.009 | 10.987 | 11.029 | HH | 61482      | 1319564  | 1.94%  | 0.061% |
| 174 | 11.041 | 11.029 | 11.052 | HH | 54102      | 710753   | 1.05%  | 0.033% |
| 175 | 11.069 | 11.052 | 11.086 | HH | 72012      | 1171773  | 1.72%  | 0.054% |
| 176 | 11.136 | 11.086 | 11.176 | HH | 179523     | 4807720  | 7.07%  | 0.223% |
| 177 | 11.210 | 11.176 | 11.238 | HH | 97237      | 2452255  | 3.61%  | 0.114% |
| 178 | 11.259 | 11.238 | 11.283 | HH | 99527      | 1789532  | 2.63%  | 0.083% |
| 179 | 11.310 | 11.283 | 11.356 | HH | 91047      | 2351657  | 3.46%  | 0.109% |
| 180 | 11.415 | 11.356 | 11.430 | HH | 467309     | 7340503  | 10.79% | 0.341% |
| 181 | 11.449 | 11.430 | 11.486 | HH | 657389     | 8644957  | 12.71% | 0.402% |
| 182 | 11.531 | 11.486 | 11.548 | HH | 546878     | 9617920  | 14.14% | 0.447% |
| 183 | 11.564 | 11.548 | 11.577 | HH | 338099     | 4236763  | 6.23%  | 0.197% |
| 184 | 11.595 | 11.577 | 11.630 | HH | 485890     | 6468832  | 9.51%  | 0.301% |
| 185 | 11.686 | 11.630 | 11.717 | HH | 81821      | 3107617  | 4.57%  | 0.144% |
| 186 | 11.740 | 11.717 | 11.766 | HH | 97964      | 2207350  | 3.25%  | 0.103% |
| 187 | 11.797 | 11.766 | 11.857 | HH | 413145     | 8212540  | 12.08% | 0.382% |
| 188 | 11.883 | 11.857 | 11.928 | HH | 389141     | 6422038  | 9.44%  | 0.298% |
| 189 | 11.946 | 11.928 | 11.989 | HH | 83199      | 2301760  | 3.38%  | 0.107% |
| 190 | 12.026 | 11.989 | 12.068 | HH | 100285     | 3074006  | 4.52%  | 0.143% |
| 191 | 12.082 | 12.068 | 12.096 | HH | 58751      | 923404   | 1.36%  | 0.043% |
| 192 | 12.130 | 12.096 | 12.176 | HH | 140524     | 4467892  | 6.57%  | 0.208% |
| 193 | 12.203 | 12.176 | 12.258 | HH | 179664     | 4996636  | 7.35%  | 0.232% |
| 194 | 12.301 | 12.258 | 12.345 | HH | 285935     | 9985534  | 14.68% | 0.464% |

| rteres.txt |        |        |        |    |         |          |         |        |
|------------|--------|--------|--------|----|---------|----------|---------|--------|
| 195        | 12.385 | 12.345 | 12.403 | HH | 174221  | 5284382  | 7.77%   | 0.246% |
| 196        | 12.474 | 12.403 | 12.495 | HH | 3003585 | 67999461 | 100.00% | 3.160% |
| 197        | 12.515 | 12.495 | 12.554 | HH | 109479  | 3031201  | 4.46%   | 0.141% |
| 198        | 12.621 | 12.554 | 12.650 | HH | 248664  | 7537397  | 11.08%  | 0.350% |
| 199        | 12.683 | 12.650 | 12.704 | HH | 221011  | 4896897  | 7.20%   | 0.228% |
| 200        | 12.770 | 12.704 | 12.785 | HH | 2657543 | 53802586 | 79.12%  | 2.501% |
| 201        | 12.798 | 12.785 | 12.811 | HH | 456795  | 5106417  | 7.51%   | 0.237% |
| 202        | 12.828 | 12.811 | 12.858 | HH | 586055  | 7987446  | 11.75%  | 0.371% |
| 203        | 12.908 | 12.858 | 12.925 | HH | 249820  | 5179417  | 7.62%   | 0.241% |
| 204        | 12.942 | 12.925 | 12.968 | HH | 204887  | 3557387  | 5.23%   | 0.165% |
| 205        | 13.001 | 12.968 | 13.040 | HH | 356612  | 6887872  | 10.13%  | 0.320% |
| 206        | 13.064 | 13.040 | 13.074 | HH | 142701  | 2439629  | 3.59%   | 0.113% |
| 207        | 13.082 | 13.074 | 13.105 | HH | 141438  | 1984020  | 2.92%   | 0.092% |
| 208        | 13.130 | 13.105 | 13.148 | HH | 224076  | 3572820  | 5.25%   | 0.166% |
| 209        | 13.195 | 13.148 | 13.220 | HH | 404072  | 8354028  | 12.29%  | 0.388% |
| 210        | 13.228 | 13.220 | 13.252 | HH | 99776   | 1739351  | 2.56%   | 0.081% |
| 211        | 13.331 | 13.252 | 13.365 | HH | 670462  | 15733366 | 23.14%  | 0.731% |
| 212        | 13.389 | 13.365 | 13.406 | HH | 145703  | 2920194  | 4.29%   | 0.136% |
| 213        | 13.434 | 13.406 | 13.453 | HH | 342136  | 5959031  | 8.76%   | 0.277% |
| 214        | 13.474 | 13.453 | 13.493 | HH | 421241  | 6226324  | 9.16%   | 0.289% |
| 215        | 13.506 | 13.493 | 13.528 | HH | 184082  | 3090172  | 4.54%   | 0.144% |
| 216        | 13.602 | 13.528 | 13.623 | HH | 355814  | 12052039 | 17.72%  | 0.560% |
| 217        | 13.643 | 13.623 | 13.683 | HH | 355593  | 6985737  | 10.27%  | 0.325% |
| 218        | 13.724 | 13.683 | 13.776 | HH | 169380  | 7317148  | 10.76%  | 0.340% |
| 219        | 13.794 | 13.776 | 13.810 | HH | 123315  | 2415926  | 3.55%   | 0.112% |
| 220        | 13.820 | 13.810 | 13.866 | HH | 118875  | 3587451  | 5.28%   | 0.167% |
| 221        | 13.907 | 13.866 | 13.925 | HH | 141691  | 4036273  | 5.94%   | 0.188% |
| 222        | 13.939 | 13.925 | 13.973 | HH | 123969  | 3298262  | 4.85%   | 0.153% |
| 223        | 14.029 | 13.973 | 14.045 | HH | 186688  | 6617491  | 9.73%   | 0.308% |
| 224        | 14.076 | 14.045 | 14.114 | HH | 434209  | 9862443  | 14.50%  | 0.458% |
| 225        | 14.141 | 14.114 | 14.152 | HH | 182750  | 3502860  | 5.15%   | 0.163% |
| 226        | 14.164 | 14.152 | 14.213 | HH | 186178  | 5330537  | 7.84%   | 0.248% |
| 227        | 14.242 | 14.213 | 14.268 | HH | 421547  | 8636278  | 12.70%  | 0.401% |
| 228        | 14.305 | 14.268 | 14.330 | HH | 574664  | 12959779 | 19.06%  | 0.602% |
| 229        | 14.350 | 14.330 | 14.367 | HH | 285005  | 5320992  | 7.83%   | 0.247% |
| 230        | 14.394 | 14.367 | 14.438 | HH | 449592  | 11066798 | 16.27%  | 0.514% |
| 231        | 14.483 | 14.438 | 14.551 | HH | 469652  | 14372150 | 21.14%  | 0.668% |
| 232        | 14.643 | 14.551 | 14.663 | HH | 1426657 | 38575486 | 56.73%  | 1.793% |
| 233        | 14.691 | 14.663 | 14.753 | HH | 1752628 | 34114277 | 50.17%  | 1.586% |
| 234        | 14.792 | 14.753 | 14.838 | HH | 451374  | 13448996 | 19.78%  | 0.625% |
| 235        | 14.877 | 14.838 | 14.905 | HH | 274644  | 7871058  | 11.58%  | 0.366% |
| 236        | 14.936 | 14.905 | 14.953 | HH | 356891  | 7115567  | 10.46%  | 0.331% |
| 237        | 14.969 | 14.953 | 15.025 | HH | 325462  | 9401480  | 13.83%  | 0.437% |
| 238        | 15.064 | 15.025 | 15.101 | HH | 430277  | 11841397 | 17.41%  | 0.550% |
| 239        | 15.116 | 15.101 | 15.146 | HH | 197075  | 4689765  | 6.90%   | 0.218% |
| 240        | 15.202 | 15.146 | 15.227 | HH | 234639  | 9014804  | 13.26%  | 0.419% |
| 241        | 15.249 | 15.227 | 15.264 | HH | 234197  | 4593747  | 6.76%   | 0.214% |
| 242        | 15.300 | 15.264 | 15.319 | HH | 588825  | 12271792 | 18.05%  | 0.570% |
| 243        | 15.336 | 15.319 | 15.369 | HH | 355080  | 7769941  | 11.43%  | 0.361% |
| 244        | 15.386 | 15.369 | 15.416 | HH | 240735  | 6239697  | 9.18%   | 0.290% |
| 245        | 15.454 | 15.416 | 15.501 | HH | 389706  | 14656778 | 21.55%  | 0.681% |
| 246        | 15.527 | 15.501 | 15.555 | HH | 298767  | 7286635  | 10.72%  | 0.339% |

| rteres.txt |        |        |        |    |         |          |        |        |
|------------|--------|--------|--------|----|---------|----------|--------|--------|
| 247        | 15.575 | 15.555 | 15.594 | HH | 212551  | 4642493  | 6.83%  | 0.216% |
| 248        | 15.614 | 15.594 | 15.646 | HH | 248838  | 6248020  | 9.19%  | 0.290% |
| 249        | 15.699 | 15.646 | 15.748 | HH | 315182  | 13843192 | 20.36% | 0.643% |
| 250        | 15.768 | 15.748 | 15.811 | HH | 198143  | 6853094  | 10.08% | 0.319% |
| 251        | 15.835 | 15.811 | 15.855 | HH | 176983  | 4487678  | 6.60%  | 0.209% |
| 252        | 15.890 | 15.855 | 15.915 | HH | 236500  | 7272389  | 10.69% | 0.338% |
| 253        | 15.989 | 15.915 | 16.024 | HH | 279366  | 15519190 | 22.82% | 0.721% |
| 254        | 16.086 | 16.024 | 16.146 | HH | 282510  | 16808598 | 24.72% | 0.781% |
| 255        | 16.226 | 16.146 | 16.295 | HH | 1493544 | 59577383 | 87.61% | 2.769% |
| 256        | 16.332 | 16.295 | 16.398 | HH | 542741  | 18199228 | 26.76% | 0.846% |
| 257        | 16.537 | 16.398 | 16.561 | HH | 921869  | 38831256 | 57.11% | 1.805% |
| 258        | 16.607 | 16.561 | 16.638 | HH | 1461828 | 32563613 | 47.89% | 1.513% |
| 259        | 17.688 | 16.638 | 16.711 | HH | 639132  | 16661817 | 24.50% | 0.774% |
| 260        | 16.728 | 16.711 | 16.772 | HH | 307127  | 9990117  | 14.69% | 0.464% |
| 261        | 16.822 | 16.772 | 16.858 | HH | 339159  | 14954546 | 21.99% | 0.695% |
| 262        | 16.879 | 16.858 | 16.897 | HH | 263507  | 5874464  | 8.64%  | 0.273% |
| 263        | 16.960 | 16.897 | 17.001 | HH | 361499  | 19303243 | 28.39% | 0.897% |
| 264        | 17.023 | 17.001 | 17.044 | HH | 290008  | 6955022  | 10.23% | 0.323% |
| 265        | 17.102 | 17.044 | 17.138 | HH | 394191  | 17170714 | 25.25% | 0.798% |
| 266        | 17.165 | 17.138 | 17.214 | HH | 318019  | 12776275 | 18.79% | 0.594% |
| 267        | 17.242 | 17.214 | 17.318 | HH | 344420  | 17467411 | 25.69% | 0.812% |
| 268        | 17.335 | 17.318 | 17.347 | HH | 258583  | 4355732  | 6.41%  | 0.202% |
| 269        | 17.365 | 17.347 | 17.404 | HH | 264216  | 8725818  | 12.83% | 0.406% |
| 270        | 17.421 | 17.404 | 17.456 | HH | 243987  | 7414151  | 10.90% | 0.345% |
| 271        | 17.479 | 17.456 | 17.491 | HH | 247233  | 5066056  | 7.45%  | 0.235% |
| 272        | 17.537 | 17.491 | 17.558 | HH | 335365  | 11548178 | 16.98% | 0.537% |
| 273        | 17.570 | 17.558 | 17.605 | HH | 305664  | 7828916  | 11.51% | 0.364% |
| 274        | 17.660 | 17.605 | 17.691 | HH | 360604  | 15520884 | 22.83% | 0.721% |
| 275        | 17.719 | 17.691 | 17.730 | HH | 334224  | 7133770  | 10.49% | 0.332% |
| 276        | 17.753 | 17.730 | 17.830 | HH | 367931  | 18493370 | 27.20% | 0.860% |
| 277        | 17.868 | 17.830 | 17.929 | HH | 524426  | 22647776 | 33.31% | 1.053% |
| 278        | 17.985 | 17.929 | 18.026 | HH | 977074  | 33775282 | 49.67% | 1.570% |
| 279        | 18.040 | 18.026 | 18.064 | HH | 366600  | 7396698  | 10.88% | 0.344% |
| 280        | 18.095 | 18.064 | 18.111 | HH | 468981  | 11190612 | 16.46% | 0.520% |
| 281        | 18.125 | 18.111 | 18.157 | HH | 453251  | 10742839 | 15.80% | 0.499% |
| 282        | 18.173 | 18.157 | 18.192 | HH | 334098  | 6693233  | 9.84%  | 0.311% |
| 283        | 18.243 | 18.192 | 18.277 | HH | 925047  | 26435213 | 38.88% | 1.229% |
| 284        | 18.305 | 18.277 | 18.325 | HH | 331733  | 8987599  | 13.22% | 0.418% |
| 285        | 18.363 | 18.325 | 18.421 | HH | 552202  | 20425835 | 30.04% | 0.949% |
| 286        | 18.476 | 18.421 | 18.506 | HH | 308669  | 14450744 | 21.25% | 0.672% |
| 287        | 18.531 | 18.506 | 18.548 | HH | 297775  | 7203053  | 10.59% | 0.335% |
| 288        | 18.553 | 18.548 | 18.578 | HH | 292688  | 4982141  | 7.33%  | 0.232% |
| 289        | 18.597 | 18.578 | 18.615 | HH | 281959  | 6027034  | 8.86%  | 0.280% |
| 290        | 18.648 | 18.615 | 18.691 | HH | 333187  | 13484060 | 19.83% | 0.627% |
| 291        | 18.729 | 18.691 | 18.757 | HH | 425269  | 13384235 | 19.68% | 0.622% |
| 292        | 18.792 | 18.757 | 18.825 | HH | 329224  | 12768788 | 18.78% | 0.593% |
| 293        | 18.839 | 18.825 | 18.874 | HH | 301978  | 8242099  | 12.12% | 0.383% |
| 294        | 18.908 | 18.874 | 18.955 | HH | 339497  | 14180102 | 20.85% | 0.659% |
| 295        | 18.969 | 18.955 | 19.023 | HH | 272252  | 10797132 | 15.88% | 0.502% |
| 296        | 19.059 | 19.023 | 19.125 | HH | 282903  | 15998945 | 23.53% | 0.744% |
| 297        | 19.163 | 19.125 | 19.196 | HH | 273650  | 11232951 | 16.52% | 0.522% |
| 298        | 19.225 | 19.196 | 19.251 | HH | 327577  | 9763319  | 14.36% | 0.454% |
| 299        | 19.270 | 19.251 | 19.288 | HH | 288099  | 6141902  | 9.03%  | 0.285% |

|     |        |        |        |    | rteres.txt |          |        |        |
|-----|--------|--------|--------|----|------------|----------|--------|--------|
| 300 | 19.302 | 19.288 | 19.321 | HH | 278425     | 5339850  | 7.85%  | 0.248% |
| 301 | 19.389 | 19.321 | 19.424 | HH | 515832     | 23496879 | 34.55% | 1.092% |
| 302 | 19.463 | 19.424 | 19.491 | HH | 586796     | 17807266 | 26.19% | 0.828% |
| 303 | 19.518 | 19.491 | 19.633 | HH | 420038     | 28740168 | 42.27% | 1.336% |
| 304 | 19.672 | 19.633 | 19.723 | HH | 332370     | 15314008 | 22.52% | 0.712% |
| 305 | 19.785 | 19.723 | 19.816 | HH | 705197     | 23814098 | 35.02% | 1.107% |
| 306 | 19.847 | 19.816 | 19.865 | HH | 403505     | 10482079 | 15.41% | 0.487% |
| 307 | 19.877 | 19.865 | 19.905 | HH | 356826     | 8054407  | 11.84% | 0.374% |
| 308 | 19.923 | 19.905 | 19.971 | HH | 342620     | 12109907 | 17.81% | 0.563% |
| 309 | 20.019 | 19.971 | 20.039 | HH | 299704     | 11662878 | 17.15% | 0.542% |
| 310 | 20.059 | 20.039 | 20.098 | HH | 331456     | 10534070 | 15.49% | 0.490% |
| 311 | 20.116 | 20.098 | 20.167 | HH | 279510     | 11249146 | 16.54% | 0.523% |
| 312 | 20.188 | 20.167 | 20.210 | HH | 275380     | 6993327  | 10.28% | 0.325% |
| 313 | 20.252 | 20.210 | 20.305 | HH | 295826     | 15929501 | 23.43% | 0.740% |
| 314 | 20.338 | 20.305 | 20.377 | HH | 283530     | 11747674 | 17.28% | 0.546% |
| 315 | 20.422 | 20.377 | 20.478 | HH | 291907     | 16451848 | 24.19% | 0.765% |
| 316 | 20.513 | 20.478 | 20.540 | HH | 276696     | 9817048  | 14.44% | 0.456% |
| 317 | 20.568 | 20.540 | 20.579 | HH | 259461     | 6068778  | 8.92%  | 0.282% |
| 318 | 20.607 | 20.579 | 20.665 | HH | 269023     | 13220468 | 19.44% | 0.614% |
| 319 | 20.698 | 20.665 | 20.713 | HH | 252038     | 7281121  | 10.71% | 0.338% |
| 320 | 20.778 | 20.713 | 20.825 | HH | 300381     | 17989981 | 26.46% | 0.836% |
| 321 | 20.851 | 20.825 | 20.885 | HH | 275600     | 9245331  | 13.60% | 0.430% |
| 322 | 20.954 | 20.885 | 21.005 | HH | 270309     | 18088627 | 26.60% | 0.841% |
| 323 | 21.049 | 21.005 | 21.076 | HH | 286744     | 11380849 | 16.74% | 0.529% |
| 324 | 21.157 | 21.076 | 21.201 | HH | 354790     | 22815468 | 33.55% | 1.060% |
| 325 | 21.218 | 21.201 | 21.285 | HH | 272253     | 12430943 | 18.28% | 0.578% |
| 326 | 21.306 | 21.285 | 21.317 | HH | 239051     | 4540294  | 6.68%  | 0.211% |
| 327 | 21.354 | 21.317 | 21.398 | HH | 250676     | 11578427 | 17.03% | 0.538% |
| 328 | 21.449 | 21.398 | 21.481 | HH | 284845     | 12775360 | 18.79% | 0.594% |
| 329 | 21.517 | 21.481 | 21.556 | HH | 279433     | 11377789 | 16.73% | 0.529% |
| 330 | 21.578 | 21.556 | 21.595 | HH | 240081     | 5550531  | 8.16%  | 0.258% |
| 331 | 21.629 | 21.595 | 21.748 | HH | 250319     | 20289037 | 29.84% | 0.943% |
| 332 | 21.758 | 21.748 | 21.798 | HH | 196088     | 5854279  | 8.61%  | 0.272% |
| 333 | 21.860 | 21.798 | 21.902 | HH | 204328     | 12357512 | 18.17% | 0.574% |
| 334 | 21.931 | 21.902 | 21.985 | HH | 195680     | 9523073  | 14.00% | 0.443% |
| 335 | 21.991 | 21.985 | 22.018 | HH | 189090     | 3728587  | 5.48%  | 0.173% |
| 336 | 22.040 | 22.018 | 22.048 | HH | 188054     | 3360694  | 4.94%  | 0.156% |
| 337 | 22.083 | 22.048 | 22.145 | HH | 188554     | 10632978 | 15.64% | 0.494% |
| 338 | 22.163 | 22.145 | 22.203 | HH | 180488     | 6247802  | 9.19%  | 0.290% |
| 339 | 22.216 | 22.203 | 22.235 | HH | 176644     | 3304964  | 4.86%  | 0.154% |
| 340 | 22.266 | 22.235 | 22.327 | HH | 177872     | 9709920  | 14.28% | 0.451% |
| 341 | 22.355 | 22.327 | 22.431 | HH | 175321     | 10703726 | 15.74% | 0.497% |
| 342 | 22.453 | 22.431 | 22.468 | HH | 170031     | 3792182  | 5.58%  | 0.176% |
| 343 | 22.478 | 22.468 | 22.495 | HH | 168093     | 2622517  | 3.86%  | 0.122% |
| 344 | 22.531 | 22.495 | 22.559 | HH | 171591     | 6512915  | 9.58%  | 0.303% |
| 345 | 22.568 | 22.559 | 22.611 | HH | 169358     | 5228087  | 7.69%  | 0.243% |
| 346 | 22.624 | 22.611 | 22.718 | HH | 164700     | 10401481 | 15.30% | 0.483% |
| 347 | 22.772 | 22.718 | 22.790 | HH | 166680     | 7114301  | 10.46% | 0.331% |
| 348 | 22.806 | 22.790 | 22.821 | HH | 166366     | 3057938  | 4.50%  | 0.142% |
| 349 | 22.834 | 22.821 | 22.906 | HH | 166979     | 8291711  | 12.19% | 0.385% |
| 350 | 22.981 | 22.906 | 22.998 | HH | 170471     | 9133093  | 13.43% | 0.424% |
| 351 | 23.016 | 22.998 | 23.026 | HH | 169694     | 2941541  | 4.33%  | 0.137% |

|     |        |        |        |    |                         |          |            |        |
|-----|--------|--------|--------|----|-------------------------|----------|------------|--------|
|     |        |        |        |    | rteres.txt              |          |            |        |
| 352 | 23.059 | 23.026 | 23.139 | HH | 179081                  | 11336621 | 16.67%     | 0.527% |
| 353 | 23.179 | 23.139 | 23.312 | HH | 165544                  | 16482546 | 24.24%     | 0.766% |
| 354 | 23.329 | 23.312 | 23.408 | HH | 150437                  | 8486115  | 12.48%     | 0.394% |
| 355 | 23.460 | 23.408 | 23.503 | HH | 151127                  | 8430496  | 12.40%     | 0.392% |
| 356 | 23.628 | 23.503 | 23.638 | HH | 166020                  | 12547096 | 18.45%     | 0.583% |
| 357 | 23.665 | 23.638 | 23.750 | HH | 168007                  | 10600563 | 15.59%     | 0.493% |
| 358 | 23.765 | 23.750 | 23.781 | HH | 146701                  | 2724979  | 4.01%      | 0.127% |
| 359 | 23.791 | 23.781 | 23.922 | HH | 147125                  | 12049056 | 17.72%     | 0.560% |
| 360 | 23.955 | 23.922 | 23.961 | HH | 142181                  | 3298767  | 4.85%      | 0.153% |
| 361 | 23.974 | 23.961 | 24.041 | HH | 143554                  | 6753044  | 9.93%      | 0.314% |
| 362 | 24.049 | 24.041 | 24.076 | HH | 136501                  | 2873199  | 4.23%      | 0.134% |
|     |        |        |        |    | Sum of corrected areas: |          | 2151618451 |        |

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