

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF111418\  
 Data File : FF002692.D  
 Signal(s) : FID2B.ch  
 Acq On : 14 Nov 2018 19:02  
 Sample : J5925-05  
 Misc :  
 ALS Vial : 61 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF111418.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         | 4.360       | 4.342        | 4.396      | BH       | 18650          | -83614       | -0.11%         | -0.003%       |
| 2         | 4.408       | 4.396        | 4.422      | PH       | -7799          | -338638      | -0.45%         | -0.011%       |
| 3         | 4.440       | 4.422        | 4.464      | PH       | 43160          | -51242       | -0.07%         | -0.002%       |
| 4         | 4.470       | 4.464        | 4.478      | PH       | -29585         | -249894      | -0.33%         | -0.008%       |
| 5         | 4.489       | 4.478        | 4.501      | PH       | -24009         | -406723      | -0.54%         | -0.013%       |
| 6         | 4.519       | 4.501        | 4.523      | PH       | 59388          | 283532       | 0.38%          | 0.009%        |
| 7         | 4.541       | 4.523        | 4.554      | HH       | 83456          | 1233319      | 1.64%          | 0.039%        |
| 8         | 4.570       | 4.554        | 4.584      | HH       | 167457         | 1919592      | 2.55%          | 0.061%        |
| 9         | 4.599       | 4.584        | 4.613      | HH       | 132300         | 1630641      | 2.17%          | 0.052%        |
| 10        | 4.630       | 4.613        | 4.644      | HH       | 580161         | 5446882      | 7.24%          | 0.174%        |
| 11        | 4.655       | 4.644        | 4.669      | HH       | 262640         | 2448862      | 3.25%          | 0.078%        |
| 12        | 4.684       | 4.669        | 4.695      | HH       | 170514         | 2014752      | 2.68%          | 0.064%        |
| 13        | 4.705       | 4.695        | 4.715      | HH       | 155090         | 1483787      | 1.97%          | 0.047%        |
| 14        | 4.725       | 4.715        | 4.736      | HH       | 161337         | 1519805      | 2.02%          | 0.048%        |
| 15        | 4.748       | 4.736        | 4.764      | HH       | 174143         | 1808567      | 2.40%          | 0.058%        |
| 16        | 4.788       | 4.764        | 4.814      | HH       | 359708         | 5605848      | 7.45%          | 0.179%        |
| 17        | 4.845       | 4.814        | 4.875      | HH       | 416325         | 5127277      | 6.81%          | 0.163%        |
| 18        | 4.897       | 4.875        | 4.910      | HH       | 99445          | 1268105      | 1.68%          | 0.040%        |
| 19        | 4.933       | 4.910        | 4.955      | HH       | 134075         | 1930636      | 2.56%          | 0.062%        |
| 20        | 4.987       | 4.955        | 5.006      | PH       | 260610         | 3492874      | 4.64%          | 0.111%        |
| 21        | 5.017       | 5.006        | 5.045      | HH       | 186063         | 2115473      | 2.81%          | 0.067%        |
| 22        | 5.068       | 5.045        | 5.078      | PH       | 260446         | 2601883      | 3.46%          | 0.083%        |
| 23        | 5.092       | 5.078        | 5.108      | HH       | 570379         | 5977781      | 7.94%          | 0.191%        |
| 24        | 5.119       | 5.108        | 5.134      | HH       | 167946         | 2389449      | 3.17%          | 0.076%        |
| 25        | 5.143       | 5.134        | 5.159      | HH       | 158461         | 1572296      | 2.09%          | 0.050%        |
| 26        | 5.175       | 5.159        | 5.195      | HH       | 99838          | 1489047      | 1.98%          | 0.047%        |
| 27        | 5.216       | 5.195        | 5.229      | HH       | 288585         | 3778881      | 5.02%          | 0.120%        |
| 28        | 5.237       | 5.229        | 5.247      | HH       | 189477         | 1875486      | 2.49%          | 0.060%        |
| 29        | 5.277       | 5.247        | 5.290      | HH       | 315481         | 5514001      | 7.33%          | 0.176%        |
| 30        | 5.304       | 5.290        | 5.320      | HH       | 374467         | 4406788      | 5.85%          | 0.140%        |
| 31        | 5.340       | 5.320        | 5.359      | HH       | 250261         | 4645891      | 6.17%          | 0.148%        |
| 32        | 5.365       | 5.359        | 5.382      | HH       | 165504         | 1953991      | 2.60%          | 0.062%        |
| 33        | 5.418       | 5.382        | 5.427      | HH       | 464973         | 6480738      | 8.61%          | 0.207%        |
| 34        | 5.440       | 5.427        | 5.465      | HH       | 620650         | 7970649      | 10.59%         | 0.254%        |
| 35        | 5.488       | 5.465        | 5.524      | HH       | 229814         | 5712595      | 7.59%          | 0.182%        |
| 36        | 5.544       | 5.524        | 5.554      | HH       | 188349         | 2664092      | 3.54%          | 0.085%        |

| rteres.txt |       |       |       |    |         |          |        |        |
|------------|-------|-------|-------|----|---------|----------|--------|--------|
| 37         | 5.567 | 5.554 | 5.578 | HH | 192354  | 2628139  | 3.49%  | 0.084% |
| 38         | 5.602 | 5.578 | 5.626 | HH | 1099328 | 17223012 | 22.88% | 0.549% |
| 39         | 5.632 | 5.626 | 5.646 | HH | 345602  | 3445045  | 4.58%  | 0.110% |
| 40         | 5.669 | 5.646 | 5.682 | HH | 327955  | 5668154  | 7.53%  | 0.181% |
|            |       |       |       |    |         |          |        |        |
| 41         | 5.705 | 5.682 | 5.738 | HH | 934523  | 20151060 | 26.77% | 0.642% |
| 42         | 5.754 | 5.738 | 5.782 | HH | 578169  | 10003733 | 13.29% | 0.319% |
| 43         | 5.789 | 5.782 | 5.800 | HH | 212093  | 1996738  | 2.65%  | 0.064% |
| 44         | 5.830 | 5.800 | 5.853 | HH | 413127  | 8362525  | 11.11% | 0.267% |
| 45         | 5.877 | 5.853 | 5.897 | HH | 463514  | 6393325  | 8.49%  | 0.204% |
|            |       |       |       |    |         |          |        |        |
| 46         | 5.929 | 5.897 | 5.947 | HH | 561492  | 10062686 | 13.37% | 0.321% |
| 47         | 5.972 | 5.947 | 5.984 | HH | 413424  | 7266437  | 9.65%  | 0.232% |
| 48         | 5.998 | 5.984 | 6.035 | HH | 446095  | 10030443 | 13.33% | 0.320% |
| 49         | 6.071 | 6.035 | 6.084 | HH | 413156  | 9180944  | 12.20% | 0.293% |
| 50         | 6.104 | 6.084 | 6.128 | HH | 811755  | 14035630 | 18.65% | 0.447% |
|            |       |       |       |    |         |          |        |        |
| 51         | 6.147 | 6.128 | 6.170 | HH | 546953  | 10210838 | 13.57% | 0.325% |
| 52         | 6.185 | 6.170 | 6.198 | HH | 592469  | 7425051  | 9.86%  | 0.237% |
| 53         | 6.214 | 6.198 | 6.234 | HH | 587092  | 11173371 | 14.84% | 0.356% |
| 54         | 6.241 | 6.234 | 6.265 | HH | 514104  | 8199539  | 10.89% | 0.261% |
| 55         | 6.286 | 6.265 | 6.304 | HH | 637533  | 11384927 | 15.13% | 0.363% |
|            |       |       |       |    |         |          |        |        |
| 56         | 6.336 | 6.304 | 6.372 | HH | 858272  | 22269866 | 29.59% | 0.710% |
| 57         | 6.382 | 6.372 | 6.392 | HH | 413786  | 4791011  | 6.37%  | 0.153% |
| 58         | 6.399 | 6.392 | 6.407 | HH | 392537  | 3361947  | 4.47%  | 0.107% |
| 59         | 6.421 | 6.407 | 6.453 | HH | 605305  | 11428167 | 15.18% | 0.364% |
| 60         | 6.492 | 6.453 | 6.506 | HH | 562570  | 13302509 | 17.67% | 0.424% |
|            |       |       |       |    |         |          |        |        |
| 61         | 6.529 | 6.506 | 6.536 | HH | 570147  | 8936668  | 11.87% | 0.285% |
| 62         | 6.562 | 6.536 | 6.581 | HH | 1837405 | 28250172 | 37.53% | 0.900% |
| 63         | 6.598 | 6.581 | 6.618 | HH | 999059  | 15840658 | 21.05% | 0.505% |
| 64         | 6.630 | 6.618 | 6.642 | HH | 556385  | 7078281  | 9.40%  | 0.226% |
| 65         | 6.655 | 6.642 | 6.664 | HH | 486320  | 5907850  | 7.85%  | 0.188% |
|            |       |       |       |    |         |          |        |        |
| 66         | 6.684 | 6.664 | 6.704 | HH | 890184  | 14847721 | 19.73% | 0.473% |
| 67         | 6.732 | 6.704 | 6.753 | HH | 951798  | 18538167 | 24.63% | 0.591% |
| 68         | 6.763 | 6.753 | 6.776 | HH | 498222  | 6171105  | 8.20%  | 0.197% |
| 69         | 6.808 | 6.776 | 6.829 | HH | 1342025 | 24130208 | 32.06% | 0.769% |
| 70         | 6.841 | 6.829 | 6.852 | HH | 447803  | 5849920  | 7.77%  | 0.186% |
|            |       |       |       |    |         |          |        |        |
| 71         | 6.869 | 6.852 | 6.890 | HH | 548664  | 10566899 | 14.04% | 0.337% |
| 72         | 6.930 | 6.890 | 6.949 | HH | 773541  | 21315718 | 28.32% | 0.679% |
| 73         | 6.969 | 6.949 | 7.003 | HH | 1051927 | 21725083 | 28.86% | 0.692% |
| 74         | 7.036 | 7.003 | 7.068 | HH | 2059311 | 40131510 | 53.32% | 1.279% |
| 75         | 7.079 | 7.068 | 7.091 | HH | 515450  | 6550027  | 8.70%  | 0.209% |
|            |       |       |       |    |         |          |        |        |
| 76         | 7.119 | 7.091 | 7.148 | HH | 2307322 | 40140730 | 53.33% | 1.279% |
| 77         | 7.170 | 7.148 | 7.194 | HH | 2203104 | 31180078 | 41.42% | 0.994% |
| 78         | 7.215 | 7.194 | 7.232 | HH | 869219  | 14639933 | 19.45% | 0.467% |
| 79         | 7.244 | 7.232 | 7.252 | HH | 561309  | 6717033  | 8.92%  | 0.214% |
| 80         | 7.262 | 7.252 | 7.274 | HH | 560803  | 7234101  | 9.61%  | 0.231% |
|            |       |       |       |    |         |          |        |        |
| 81         | 7.316 | 7.274 | 7.359 | HH | 1206658 | 39453528 | 52.42% | 1.258% |
| 82         | 7.378 | 7.359 | 7.411 | HH | 872987  | 23709634 | 31.50% | 0.756% |
| 83         | 7.421 | 7.411 | 7.441 | HH | 768007  | 12225960 | 16.24% | 0.390% |
| 84         | 7.458 | 7.441 | 7.481 | HH | 639846  | 14573578 | 19.36% | 0.465% |
| 85         | 7.509 | 7.481 | 7.539 | HH | 1593990 | 34344299 | 45.63% | 1.095% |
|            |       |       |       |    |         |          |        |        |
| 86         | 7.557 | 7.539 | 7.578 | HH | 838001  | 15272915 | 20.29% | 0.487% |
| 87         | 7.599 | 7.578 | 7.613 | HH | 664553  | 11487502 | 15.26% | 0.366% |
| 88         | 7.627 | 7.613 | 7.633 | HH | 714833  | 7926879  | 10.53% | 0.253% |
| 89         | 7.646 | 7.633 | 7.657 | HH | 855941  | 11156017 | 14.82% | 0.356% |

| rteres.txt |       |       |       |    |         |          |         |        |
|------------|-------|-------|-------|----|---------|----------|---------|--------|
| 90         | 7.673 | 7.657 | 7.689 | HH | 951152  | 15897564 | 21.12%  | 0.507% |
| 91         | 7.700 | 7.689 | 7.714 | HH | 680197  | 9446558  | 12.55%  | 0.301% |
| 92         | 7.720 | 7.714 | 7.736 | HH | 620689  | 7988755  | 10.61%  | 0.255% |
| 93         | 7.741 | 7.736 | 7.745 | HH | 555375  | 2798062  | 3.72%   | 0.089% |
| 94         | 7.766 | 7.745 | 7.785 | HH | 936579  | 17205823 | 22.86%  | 0.548% |
| 95         | 7.803 | 7.785 | 7.827 | HH | 721382  | 16382953 | 21.77%  | 0.522% |
| 96         | 7.852 | 7.827 | 7.874 | HH | 685627  | 17355680 | 23.06%  | 0.553% |
| 97         | 7.917 | 7.874 | 7.932 | HH | 1391386 | 32736967 | 43.49%  | 1.043% |
| 98         | 7.947 | 7.932 | 7.990 | HH | 1310028 | 33485728 | 44.49%  | 1.067% |
| 99         | 8.038 | 7.990 | 8.074 | HH | 3285077 | 75269618 | 100.00% | 2.399% |
| 100        | 8.090 | 8.074 | 8.109 | HH | 803612  | 15400980 | 20.46%  | 0.491% |
| 101        | 8.146 | 8.109 | 8.159 | HH | 2493480 | 49112869 | 65.25%  | 1.565% |
| 102        | 8.174 | 8.159 | 8.187 | HH | 2342688 | 28925425 | 38.43%  | 0.922% |
| 103        | 8.192 | 8.187 | 8.213 | HH | 1042442 | 13886202 | 18.45%  | 0.443% |
| 104        | 8.227 | 8.213 | 8.237 | HH | 869857  | 11732456 | 15.59%  | 0.374% |
| 105        | 8.256 | 8.237 | 8.272 | HH | 1171790 | 20536551 | 27.28%  | 0.655% |
| 106        | 8.305 | 8.272 | 8.342 | HH | 1573568 | 46141337 | 61.30%  | 1.471% |
| 107        | 8.377 | 8.342 | 8.392 | HH | 1622163 | 32702816 | 43.45%  | 1.042% |
| 108        | 8.412 | 8.392 | 8.445 | HH | 1276332 | 33550849 | 44.57%  | 1.069% |
| 109        | 8.456 | 8.445 | 8.472 | HH | 873385  | 12955939 | 17.21%  | 0.413% |
| 110        | 8.498 | 8.472 | 8.526 | HH | 851707  | 23766920 | 31.58%  | 0.758% |
| 111        | 8.541 | 8.526 | 8.548 | HH | 623527  | 8169737  | 10.85%  | 0.260% |
| 112        | 8.571 | 8.548 | 8.589 | HH | 1017487 | 20320186 | 27.00%  | 0.648% |
| 113        | 8.603 | 8.589 | 8.620 | HH | 1002206 | 16190552 | 21.51%  | 0.516% |
| 114        | 8.631 | 8.620 | 8.643 | HH | 795211  | 10582827 | 14.06%  | 0.337% |
| 115        | 8.670 | 8.643 | 8.695 | HH | 1529340 | 32031869 | 42.56%  | 1.021% |
| 116        | 8.731 | 8.695 | 8.736 | HH | 1319032 | 25439549 | 33.80%  | 0.811% |
| 117        | 8.759 | 8.736 | 8.789 | HH | 2562788 | 47252921 | 62.78%  | 1.506% |
| 118        | 8.800 | 8.789 | 8.816 | HH | 779417  | 11975899 | 15.91%  | 0.382% |
| 119        | 8.859 | 8.816 | 8.876 | HH | 1850790 | 41067675 | 54.56%  | 1.309% |
| 120        | 8.890 | 8.876 | 8.912 | HH | 1163911 | 21449169 | 28.50%  | 0.684% |
| 121        | 8.928 | 8.912 | 8.945 | HH | 967678  | 16247226 | 21.59%  | 0.518% |
| 122        | 8.979 | 8.945 | 8.997 | HH | 1241574 | 29588770 | 39.31%  | 0.943% |
| 123        | 9.002 | 8.997 | 9.007 | HH | 900765  | 5301299  | 7.04%   | 0.169% |
| 124        | 9.030 | 9.007 | 9.045 | HH | 1602843 | 27865803 | 37.02%  | 0.888% |
| 125        | 9.075 | 9.045 | 9.104 | HH | 1960352 | 40926079 | 54.37%  | 1.304% |
| 126        | 9.122 | 9.104 | 9.147 | HH | 934991  | 20091332 | 26.69%  | 0.640% |
| 127        | 9.187 | 9.147 | 9.203 | HH | 1549197 | 33899222 | 45.04%  | 1.081% |
| 128        | 9.219 | 9.203 | 9.249 | HH | 1425869 | 26184062 | 34.79%  | 0.835% |
| 129        | 9.265 | 9.249 | 9.281 | HH | 786925  | 13694808 | 18.19%  | 0.437% |
| 130        | 9.324 | 9.281 | 9.351 | HH | 1680571 | 45036262 | 59.83%  | 1.435% |
| 131        | 9.360 | 9.351 | 9.379 | HH | 795870  | 12444788 | 16.53%  | 0.397% |
| 132        | 9.403 | 9.379 | 9.415 | HH | 1113375 | 19183609 | 25.49%  | 0.611% |
| 133        | 9.429 | 9.415 | 9.453 | HH | 1074537 | 19598458 | 26.04%  | 0.625% |
| 134        | 9.483 | 9.453 | 9.512 | HH | 1850327 | 40173236 | 53.37%  | 1.280% |
| 135        | 9.521 | 9.512 | 9.534 | HH | 807387  | 9864651  | 13.11%  | 0.314% |
| 136        | 9.553 | 9.534 | 9.561 | HH | 975741  | 13528418 | 17.97%  | 0.431% |
| 137        | 9.575 | 9.561 | 9.592 | HH | 1140129 | 19247601 | 25.57%  | 0.614% |
| 138        | 9.605 | 9.592 | 9.626 | HH | 1189531 | 19440841 | 25.83%  | 0.620% |
| 139        | 9.643 | 9.626 | 9.667 | HH | 788241  | 17922381 | 23.81%  | 0.571% |
| 140        | 9.684 | 9.667 | 9.700 | HH | 662922  | 12470628 | 16.57%  | 0.397% |
| 141        | 9.724 | 9.700 | 9.746 | HH | 1009803 | 22740231 | 30.21%  | 0.725% |

| rteres.txt |        |        |        |    |         |          |        |        |
|------------|--------|--------|--------|----|---------|----------|--------|--------|
| 142        | 9.771  | 9.746  | 9.795  | HH | 1145803 | 28037073 | 37.25% | 0.894% |
| 143        | 9.816  | 9.795  | 9.861  | HH | 1067305 | 34144135 | 45.36% | 1.088% |
| 144        | 9.883  | 9.861  | 9.900  | HH | 805813  | 17829029 | 23.69% | 0.568% |
| 145        | 9.916  | 9.900  | 9.954  | HH | 903684  | 23891697 | 31.74% | 0.762% |
| 146        | 9.985  | 9.954  | 10.012 | HH | 1006346 | 26179722 | 34.78% | 0.834% |
| 147        | 10.024 | 10.012 | 10.031 | HH | 637493  | 7131454  | 9.47%  | 0.227% |
| 148        | 10.040 | 10.031 | 10.065 | HH | 623165  | 11925241 | 15.84% | 0.380% |
| 149        | 10.086 | 10.065 | 10.117 | HH | 695512  | 19084340 | 25.35% | 0.608% |
| 150        | 10.143 | 10.117 | 10.173 | HH | 942863  | 23246164 | 30.88% | 0.741% |
| 151        | 10.210 | 10.173 | 10.232 | HH | 1966223 | 40866510 | 54.29% | 1.303% |
| 152        | 10.259 | 10.232 | 10.269 | HH | 989697  | 19060941 | 25.32% | 0.608% |
| 153        | 10.282 | 10.269 | 10.305 | HH | 1126817 | 19835460 | 26.35% | 0.632% |
| 154        | 10.327 | 10.305 | 10.343 | HH | 1325694 | 21300362 | 28.30% | 0.679% |
| 155        | 10.349 | 10.343 | 10.375 | HH | 792305  | 13047967 | 17.33% | 0.416% |
| 156        | 10.400 | 10.375 | 10.412 | HH | 940127  | 17565662 | 23.34% | 0.560% |
| 157        | 10.417 | 10.412 | 10.437 | HH | 880006  | 11962921 | 15.89% | 0.381% |
| 158        | 10.463 | 10.437 | 10.512 | HH | 896183  | 34436254 | 45.75% | 1.098% |
| 159        | 10.535 | 10.512 | 10.554 | HH | 868142  | 19247040 | 25.57% | 0.613% |
| 160        | 10.570 | 10.554 | 10.589 | HH | 891601  | 16269731 | 21.62% | 0.519% |
| 161        | 10.636 | 10.589 | 10.657 | HH | 2879962 | 61707256 | 81.98% | 1.967% |
| 162        | 10.672 | 10.657 | 10.720 | HH | 798683  | 25245757 | 33.54% | 0.805% |
| 163        | 10.767 | 10.720 | 10.780 | HH | 667405  | 21783922 | 28.94% | 0.694% |
| 164        | 10.804 | 10.780 | 10.858 | HH | 1024489 | 32434052 | 43.09% | 1.034% |
| 165        | 10.883 | 10.858 | 10.915 | HH | 685257  | 20189436 | 26.82% | 0.644% |
| 166        | 10.945 | 10.915 | 10.967 | HH | 736096  | 19351410 | 25.71% | 0.617% |
| 167        | 10.977 | 10.967 | 10.995 | HH | 548435  | 8875104  | 11.79% | 0.283% |
| 168        | 11.021 | 10.995 | 11.054 | HH | 618719  | 19580637 | 26.01% | 0.624% |
| 169        | 11.083 | 11.054 | 11.088 | HH | 558514  | 11089902 | 14.73% | 0.353% |
| 170        | 11.113 | 11.088 | 11.133 | HH | 737086  | 17033903 | 22.63% | 0.543% |
| 171        | 11.159 | 11.133 | 11.181 | HH | 703048  | 17675831 | 23.48% | 0.563% |
| 172        | 11.197 | 11.181 | 11.224 | HH | 705056  | 16140169 | 21.44% | 0.514% |
| 173        | 11.230 | 11.224 | 11.244 | HH | 581700  | 6923923  | 9.20%  | 0.221% |
| 174        | 11.250 | 11.244 | 11.264 | HH | 583189  | 6483135  | 8.61%  | 0.207% |
| 175        | 11.280 | 11.264 | 11.312 | HH | 626932  | 17268235 | 22.94% | 0.550% |
| 176        | 11.352 | 11.312 | 11.379 | HH | 1599091 | 38031361 | 50.53% | 1.212% |
| 177        | 11.398 | 11.379 | 11.427 | HH | 563677  | 14448501 | 19.20% | 0.461% |
| 178        | 11.453 | 11.427 | 11.477 | HH | 682139  | 16168767 | 21.48% | 0.515% |
| 179        | 11.494 | 11.477 | 11.507 | HH | 505894  | 8694072  | 11.55% | 0.277% |
| 180        | 11.523 | 11.507 | 11.527 | HH | 491734  | 5622608  | 7.47%  | 0.179% |
| 181        | 11.536 | 11.527 | 11.553 | HH | 492800  | 7462851  | 9.91%  | 0.238% |
| 182        | 11.561 | 11.553 | 11.578 | HH | 477851  | 7057225  | 9.38%  | 0.225% |
| 183        | 11.607 | 11.578 | 11.621 | HH | 724735  | 14783011 | 19.64% | 0.471% |
| 184        | 11.638 | 11.621 | 11.671 | HH | 838261  | 17139383 | 22.77% | 0.546% |
| 185        | 11.698 | 11.671 | 11.726 | HH | 463933  | 13586049 | 18.05% | 0.433% |
| 186        | 11.753 | 11.726 | 11.769 | HH | 657098  | 13590876 | 18.06% | 0.433% |
| 187        | 11.785 | 11.769 | 11.836 | HH | 622576  | 19138575 | 25.43% | 0.610% |
| 188        | 11.852 | 11.836 | 11.858 | HH | 419727  | 5235257  | 6.96%  | 0.167% |
| 189        | 11.860 | 11.858 | 11.872 | HH | 409430  | 3221566  | 4.28%  | 0.103% |
| 190        | 11.901 | 11.872 | 11.924 | HH | 707305  | 16630422 | 22.09% | 0.530% |
| 191        | 11.940 | 11.924 | 11.978 | HH | 488008  | 13089115 | 17.39% | 0.417% |
| 192        | 12.006 | 11.978 | 12.021 | HH | 432653  | 9958230  | 13.23% | 0.317% |
| 193        | 12.050 | 12.021 | 12.060 | HH | 385459  | 8761566  | 11.64% | 0.279% |
| 194        | 12.071 | 12.060 | 12.087 | HH | 360033  | 5624122  | 7.47%  | 0.179% |

|     |        |        |        |    | rteres.txt |          |        |        |
|-----|--------|--------|--------|----|------------|----------|--------|--------|
| 195 | 12.105 | 12.087 | 12.117 | HH | 396029     | 6369226  | 8.46%  | 0.203% |
| 196 | 12.137 | 12.117 | 12.182 | HH | 449718     | 13896530 | 18.46% | 0.443% |
| 197 | 12.218 | 12.182 | 12.237 | HH | 362602     | 10454593 | 13.89% | 0.333% |
| 198 | 12.251 | 12.237 | 12.263 | HH | 299165     | 4419175  | 5.87%  | 0.141% |
| 199 | 12.278 | 12.263 | 12.301 | HH | 340119     | 7137060  | 9.48%  | 0.227% |
| 200 | 12.321 | 12.301 | 12.329 | HH | 308135     | 5125510  | 6.81%  | 0.163% |
| 201 | 12.345 | 12.329 | 12.371 | HH | 357163     | 7679383  | 10.20% | 0.245% |
| 202 | 12.392 | 12.371 | 12.438 | HH | 441994     | 13904110 | 18.47% | 0.443% |
| 203 | 12.503 | 12.438 | 12.522 | HH | 556702     | 18209682 | 24.19% | 0.580% |
| 204 | 12.538 | 12.522 | 12.551 | HH | 382583     | 5984504  | 7.95%  | 0.191% |
| 205 | 12.565 | 12.551 | 12.594 | HH | 374964     | 7777557  | 10.33% | 0.248% |
| 206 | 12.614 | 12.594 | 12.661 | HH | 311086     | 10318904 | 13.71% | 0.329% |
| 207 | 12.673 | 12.661 | 12.684 | HH | 215351     | 2910666  | 3.87%  | 0.093% |
| 208 | 12.686 | 12.684 | 12.689 | HH | 211508     | 623625   | 0.83%  | 0.020% |
| 209 | 12.705 | 12.689 | 12.722 | HH | 232215     | 4340604  | 5.77%  | 0.138% |
| 210 | 12.741 | 12.722 | 12.759 | HH | 250333     | 4919807  | 6.54%  | 0.157% |
| 211 | 12.772 | 12.759 | 12.787 | HH | 188870     | 3042421  | 4.04%  | 0.097% |
| 212 | 12.808 | 12.787 | 12.820 | HH | 199345     | 3804390  | 5.05%  | 0.121% |
| 213 | 12.834 | 12.820 | 12.848 | HH | 201846     | 3210605  | 4.27%  | 0.102% |
| 214 | 12.859 | 12.848 | 12.891 | HH | 188190     | 4513822  | 6.00%  | 0.144% |
| 215 | 12.908 | 12.891 | 12.959 | HH | 218646     | 7068430  | 9.39%  | 0.225% |
| 216 | 12.976 | 12.959 | 12.993 | HH | 176605     | 3284633  | 4.36%  | 0.105% |
| 217 | 13.004 | 12.993 | 13.027 | HH | 167129     | 3315920  | 4.41%  | 0.106% |
| 218 | 13.049 | 13.027 | 13.149 | HH | 247320     | 12471607 | 16.57% | 0.398% |
| 219 | 13.154 | 13.149 | 13.158 | HH | 115674     | 568703   | 0.76%  | 0.018% |
| 220 | 13.195 | 13.158 | 13.221 | HH | 185049     | 5829603  | 7.74%  | 0.186% |
| 221 | 13.241 | 13.221 | 13.266 | HH | 201225     | 4285740  | 5.69%  | 0.137% |
| 222 | 13.270 | 13.266 | 13.285 | HH | 116159     | 1308948  | 1.74%  | 0.042% |
| 223 | 13.305 | 13.285 | 13.319 | HH | 145026     | 2480501  | 3.30%  | 0.079% |
| 224 | 13.337 | 13.319 | 13.359 | HH | 153608     | 2969493  | 3.95%  | 0.095% |
| 225 | 13.386 | 13.359 | 13.402 | HH | 121510     | 2760301  | 3.67%  | 0.088% |
| 226 | 13.407 | 13.402 | 13.427 | HH | 108433     | 1505099  | 2.00%  | 0.048% |
| 227 | 13.436 | 13.427 | 13.476 | HH | 103136     | 2780098  | 3.69%  | 0.089% |
| 228 | 13.495 | 13.476 | 13.522 | HH | 104798     | 2464012  | 3.27%  | 0.079% |
| 229 | 13.539 | 13.522 | 13.556 | HH | 76244      | 1449000  | 1.93%  | 0.046% |
| 230 | 13.566 | 13.556 | 13.581 | HH | 65329      | 924879   | 1.23%  | 0.029% |
| 231 | 13.607 | 13.581 | 13.627 | HH | 84654      | 2020928  | 2.68%  | 0.064% |
| 232 | 13.642 | 13.627 | 13.653 | HH | 83887      | 1217424  | 1.62%  | 0.039% |
| 233 | 13.665 | 13.653 | 13.675 | HH | 83490      | 1040825  | 1.38%  | 0.033% |
| 234 | 13.685 | 13.675 | 13.727 | HH | 79329      | 1964288  | 2.61%  | 0.063% |
| 235 | 13.730 | 13.727 | 13.748 | HH | 51715      | 601054   | 0.80%  | 0.019% |
| 236 | 13.766 | 13.748 | 13.792 | HH | 69437      | 1478329  | 1.96%  | 0.047% |
| 237 | 13.810 | 13.792 | 13.837 | HH | 56851      | 1263302  | 1.68%  | 0.040% |
| 238 | 13.842 | 13.837 | 13.864 | HH | 43919      | 651090   | 0.87%  | 0.021% |
| 239 | 13.868 | 13.864 | 13.871 | HH | 40039      | 167494   | 0.22%  | 0.005% |
| 240 | 13.876 | 13.871 | 13.888 | HH | 42921      | 376966   | 0.50%  | 0.012% |
| 241 | 13.893 | 13.888 | 13.920 | HH | 34095      | 578643   | 0.77%  | 0.018% |
| 242 | 13.953 | 13.920 | 13.961 | HH | 34048      | 650356   | 0.86%  | 0.021% |
| 243 | 13.981 | 13.961 | 14.022 | HH | 37494      | 1034168  | 1.37%  | 0.033% |
| 244 | 14.051 | 14.022 | 14.091 | HH | 25125      | 744096   | 0.99%  | 0.024% |
| 245 | 14.113 | 14.091 | 14.139 | HH | 25275      | 485821   | 0.65%  | 0.015% |
| 246 | 14.143 | 14.139 | 14.177 | HH | 14472      | 246589   | 0.33%  | 0.008% |

|     |        |        |        |    | rteres.txt |          |        |         |
|-----|--------|--------|--------|----|------------|----------|--------|---------|
| 247 | 14.185 | 14.177 | 14.190 | HH | 8762       | 57940    | 0.08%  | 0.002%  |
| 248 | 14.206 | 14.190 | 14.248 | HH | 10243      | 229407   | 0.30%  | 0.007%  |
| 249 | 14.258 | 14.248 | 14.284 | HH | 3483       | -22306   | -0.03% | -0.001% |
| 250 | 14.317 | 14.284 | 14.339 | PH | 18969      | 163394   | 0.22%  | 0.005%  |
| 251 | 14.366 | 14.339 | 14.393 | PH | 114414     | 1440851  | 1.91%  | 0.046%  |
| 252 | 14.398 | 14.393 | 14.419 | HH | 5108       | 28017    | 0.04%  | 0.001%  |
| 253 | 14.435 | 14.419 | 14.518 | PH | 2448       | -492342  | -0.65% | -0.016% |
| 254 | 14.523 | 14.518 | 14.574 | PH | -15157     | -571481  | -0.76% | -0.018% |
| 255 | 14.589 | 14.574 | 14.596 | PH | -14549     | -213515  | -0.28% | -0.007% |
| 256 | 14.597 | 14.596 | 14.621 | PH | -15976     | -298405  | -0.40% | -0.010% |
| 257 | 14.650 | 14.621 | 14.684 | PH | 119539     | 1119004  | 1.49%  | 0.036%  |
| 258 | 14.689 | 14.684 | 14.721 | PH | -25333     | -608365  | -0.81% | -0.019% |
| 259 | 14.725 | 14.721 | 14.735 | PH | -27566     | -231198  | -0.31% | -0.007% |
| 260 | 14.749 | 14.735 | 14.800 | PH | -27033     | -1168565 | -1.55% | -0.037% |
| 261 | 14.818 | 14.800 | 14.832 | PH | -31636     | -642076  | -0.85% | -0.020% |
| 262 | 14.850 | 14.832 | 14.880 | PH | -32215     | -965149  | -1.28% | -0.031% |
| 263 | 14.889 | 14.880 | 14.894 | PH | -33959     | -279106  | -0.37% | -0.009% |
| 264 | 14.898 | 14.894 | 14.904 | PH | -33604     | -203888  | -0.27% | -0.006% |
| 265 | 14.908 | 14.904 | 14.917 | PH | -34162     | -282972  | -0.38% | -0.009% |
| 266 | 14.937 | 14.917 | 14.950 | PH | -33413     | -675708  | -0.90% | -0.022% |
| 267 | 14.961 | 14.950 | 14.972 | PH | -36914     | -513667  | -0.68% | -0.016% |
| 268 | 14.988 | 14.972 | 15.034 | PH | -35587     | -1431788 | -1.90% | -0.046% |
| 269 | 15.044 | 15.034 | 15.051 | PH | -42087     | -420533  | -0.56% | -0.013% |
| 270 | 15.060 | 15.051 | 15.066 | PH | -41411     | -378753  | -0.50% | -0.012% |
| 271 | 15.085 | 15.066 | 15.167 | PH | -39130     | -2634311 | -3.50% | -0.084% |
| 272 | 15.185 | 15.167 | 15.202 | PH | -44553     | -935294  | -1.24% | -0.030% |
| 273 | 15.229 | 15.202 | 15.352 | PH | -10288     | -3680056 | -4.89% | -0.117% |
| 274 | 15.370 | 15.352 | 15.393 | PH | -45499     | -1160018 | -1.54% | -0.037% |
| 275 | 15.401 | 15.393 | 15.438 | PH | -48271     | -1333188 | -1.77% | -0.042% |
| 276 | 15.452 | 15.438 | 15.481 | PH | -48483     | -1284773 | -1.71% | -0.041% |
| 277 | 15.484 | 15.481 | 15.528 | PH | -52056     | -1516532 | -2.01% | -0.048% |
| 278 | 15.537 | 15.528 | 15.550 | PH | -54304     | -711714  | -0.95% | -0.023% |
| 279 | 15.565 | 15.550 | 15.580 | PH | -54056     | -995031  | -1.32% | -0.032% |
| 280 | 15.591 | 15.580 | 15.596 | PH | -54152     | -505791  | -0.67% | -0.016% |
| 281 | 15.600 | 15.596 | 15.614 | PH | -54092     | -597972  | -0.79% | -0.019% |
| 282 | 15.619 | 15.614 | 15.638 | PH | -54403     | -790149  | -1.05% | -0.025% |
| 283 | 15.644 | 15.638 | 15.655 | PH | -55429     | -577385  | -0.77% | -0.018% |
| 284 | 15.673 | 15.655 | 15.679 | PH | -55003     | -785415  | -1.04% | -0.025% |
| 285 | 15.687 | 15.679 | 15.698 | PH | -54743     | -638855  | -0.85% | -0.020% |
| 286 | 15.702 | 15.698 | 15.742 | PH | -55322     | -1485021 | -1.97% | -0.047% |
| 287 | 15.755 | 15.742 | 15.801 | PH | -57030     | -2035677 | -2.70% | -0.065% |
| 288 | 15.803 | 15.801 | 15.816 | PH | -57991     | -535603  | -0.71% | -0.017% |
| 289 | 15.820 | 15.816 | 15.848 | PH | -58304     | -1134253 | -1.51% | -0.036% |
| 290 | 15.874 | 15.848 | 15.907 | PH | -53508     | -2020650 | -2.68% | -0.064% |
| 291 | 15.922 | 15.907 | 15.969 | PH | -58573     | -2205370 | -2.93% | -0.070% |
| 292 | 15.975 | 15.969 | 15.981 | PH | -60144     | -447158  | -0.59% | -0.014% |
| 293 | 15.984 | 15.981 | 16.000 | PH | -60679     | -688711  | -0.91% | -0.022% |
| 294 | 16.025 | 16.000 | 16.035 | PH | -60497     | -1257273 | -1.67% | -0.040% |
| 295 | 16.054 | 16.035 | 16.102 | PH | -59980     | -2465712 | -3.28% | -0.079% |
| 296 | 16.105 | 16.102 | 16.149 | PH | -60978     | -1716667 | -2.28% | -0.055% |
| 297 | 16.155 | 16.149 | 16.172 | PH | -61245     | -854558  | -1.14% | -0.027% |
| 298 | 16.186 | 16.172 | 16.225 | PH | -61142     | -1964420 | -2.61% | -0.063% |
| 299 | 16.247 | 16.225 | 16.279 | PH | -60827     | -1994272 | -2.65% | -0.064% |

|     |        |        |        |     | rteres.txt              |          |            |         |
|-----|--------|--------|--------|-----|-------------------------|----------|------------|---------|
| 300 | 16.305 | 16.279 | 16.317 | PH  | -62427                  | -1402404 | -1.86%     | -0.045% |
| 301 | 16.357 | 16.317 | 16.395 | PH  | -54468                  | -2850132 | -3.79%     | -0.091% |
| 302 | 16.400 | 16.395 | 16.415 | PH  | -63793                  | -780169  | -1.04%     | -0.025% |
| 303 | 16.432 | 16.415 | 16.460 | PH  | -63682                  | -1714624 | -2.28%     | -0.055% |
| 304 | 16.486 | 16.460 | 16.545 | PH  | -62463                  | -3264709 | -4.34%     | -0.104% |
| 305 | 16.551 | 16.545 | 16.556 | PH  | -64529                  | -418906  | -0.56%     | -0.013% |
| 306 | 16.563 | 16.556 | 16.567 | PH  | -64434                  | -444570  | -0.59%     | -0.014% |
| 307 | 16.576 | 16.567 | 16.603 | PH  | -64310                  | -1383802 | -1.84%     | -0.044% |
| 308 | 16.627 | 16.603 | 16.634 | PH  | -64738                  | -1205994 | -1.60%     | -0.038% |
| 309 | 16.657 | 16.634 | 16.675 | PH  | -64518                  | -1578528 | -2.10%     | -0.050% |
| 310 | 16.714 | 16.675 | 16.779 | PH  | -64475                  | -4081287 | -5.42%     | -0.130% |
| 311 | 16.824 | 16.779 | 16.841 | PHA | -51976                  | -2287244 | -3.04%     | -0.073% |
|     |        |        |        |     | Sum of corrected areas: |          | 3137333860 |         |

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