

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_C\Data\FC070219AL\  
 Data File : FC042175.D  
 Signal(s) : FID1A.CH  
 Acq On : 03 Jul 2019 00:22  
 Sample : K3550-06MSD  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_C\Method\Alaphatic EPH 061219.M  
 Title : GC Extractables

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         | 3.492       | 3.452        | 3.532      | BV       | 186105         | 1618642      | 4.24%          | 0.093%        |
| 2         | 3.544       | 3.532        | 3.574      | VV       | 3087           | 32424        | 0.08%          | 0.002%        |
| 3         | 3.596       | 3.574        | 3.608      | PV       | 3587           | 31096        | 0.08%          | 0.002%        |
| 4         | 3.624       | 3.608        | 3.638      | VV       | 9280           | 93839        | 0.25%          | 0.005%        |
| 5         | 3.647       | 3.638        | 3.661      | VV       | 5509           | 48176        | 0.13%          | 0.003%        |
| 6         | 3.693       | 3.661        | 3.726      | VV       | 8978           | 145953       | 0.38%          | 0.008%        |
| 7         | 3.765       | 3.726        | 3.792      | VV       | 23796          | 311223       | 0.81%          | 0.018%        |
| 8         | 3.814       | 3.792        | 3.838      | VV       | 8295           | 130548       | 0.34%          | 0.007%        |
| 9         | 3.865       | 3.838        | 3.892      | VV       | 33990          | 406152       | 1.06%          | 0.023%        |
| 10        | 3.904       | 3.892        | 3.917      | VV       | 13125          | 147147       | 0.39%          | 0.008%        |
| 11        | 3.938       | 3.917        | 3.954      | VV       | 19467          | 243072       | 0.64%          | 0.014%        |
| 12        | 3.963       | 3.954        | 3.976      | VV       | 6749           | 57712        | 0.15%          | 0.003%        |
| 13        | 3.992       | 3.976        | 4.024      | VV       | 8399           | 104704       | 0.27%          | 0.006%        |
| 14        | 4.040       | 4.024        | 4.056      | VV       | 19376          | 163187       | 0.43%          | 0.009%        |
| 15        | 4.081       | 4.056        | 4.104      | VV       | 17713          | 307396       | 0.80%          | 0.018%        |
| 16        | 4.112       | 4.104        | 4.127      | VV       | 8664           | 82421        | 0.22%          | 0.005%        |
| 17        | 4.158       | 4.127        | 4.177      | VV       | 42909          | 503826       | 1.32%          | 0.029%        |
| 18        | 4.190       | 4.177        | 4.206      | VV       | 13742          | 172714       | 0.45%          | 0.010%        |
| 19        | 4.226       | 4.206        | 4.238      | VV       | 15159          | 218004       | 0.57%          | 0.012%        |
| 20        | 4.256       | 4.238        | 4.280      | VV       | 36276          | 433585       | 1.13%          | 0.025%        |
| 21        | 4.342       | 4.280        | 4.355      | VV       | 27344          | 445680       | 1.17%          | 0.025%        |
| 22        | 4.369       | 4.355        | 4.394      | VV       | 33831          | 435395       | 1.14%          | 0.025%        |
| 23        | 4.406       | 4.394        | 4.445      | VV       | 13888          | 227318       | 0.59%          | 0.013%        |
| 24        | 4.480       | 4.445        | 4.499      | VV       | 20680          | 338911       | 0.89%          | 0.019%        |
| 25        | 4.518       | 4.499        | 4.535      | VV       | 25790          | 337358       | 0.88%          | 0.019%        |
| 26        | 4.557       | 4.535        | 4.583      | VV       | 247078         | 2342244      | 6.13%          | 0.134%        |
| 27        | 4.605       | 4.583        | 4.624      | VV       | 211895         | 1900455      | 4.97%          | 0.109%        |
| 28        | 4.631       | 4.624        | 4.659      | VV       | 16575          | 228576       | 0.60%          | 0.013%        |
| 29        | 4.671       | 4.659        | 4.692      | VV       | 7916           | 130976       | 0.34%          | 0.007%        |
| 30        | 4.716       | 4.692        | 4.747      | VV       | 35631          | 643713       | 1.68%          | 0.037%        |
| 31        | 4.762       | 4.747        | 4.773      | VV       | 40580          | 449906       | 1.18%          | 0.026%        |
| 32        | 4.784       | 4.773        | 4.793      | VV       | 32005          | 350546       | 0.92%          | 0.020%        |
| 33        | 4.810       | 4.793        | 4.828      | VV       | 132718         | 1313021      | 3.44%          | 0.075%        |
| 34        | 4.844       | 4.828        | 4.878      | VV       | 70634          | 1152712      | 3.02%          | 0.066%        |
| 35        | 4.891       | 4.878        | 4.902      | VV       | 44560          | 447147       | 1.17%          | 0.026%        |
| 36        | 4.929       | 4.902        | 4.948      | VV       | 46895          | 843104       | 2.21%          | 0.048%        |

| rteres.txt |       |       |       |    |         |          |        |        |
|------------|-------|-------|-------|----|---------|----------|--------|--------|
| 37         | 4.971 | 4.948 | 5.015 | VV | 87215   | 1438984  | 3.77%  | 0.082% |
| 38         | 5.038 | 5.015 | 5.057 | VV | 82924   | 1028742  | 2.69%  | 0.059% |
| 39         | 5.077 | 5.057 | 5.092 | VV | 29752   | 465320   | 1.22%  | 0.027% |
| 40         | 5.107 | 5.092 | 5.140 | VV | 34729   | 680309   | 1.78%  | 0.039% |
| 41         | 5.163 | 5.140 | 5.177 | VV | 75212   | 824043   | 2.16%  | 0.047% |
| 42         | 5.192 | 5.177 | 5.228 | VV | 71627   | 1194176  | 3.13%  | 0.068% |
| 43         | 5.253 | 5.228 | 5.264 | VV | 71260   | 795965   | 2.08%  | 0.045% |
| 44         | 5.277 | 5.264 | 5.318 | VV | 109633  | 1943530  | 5.09%  | 0.111% |
| 45         | 5.328 | 5.318 | 5.342 | VV | 40878   | 445700   | 1.17%  | 0.025% |
| 46         | 5.358 | 5.342 | 5.374 | VV | 27419   | 474999   | 1.24%  | 0.027% |
| 47         | 5.396 | 5.374 | 5.424 | VV | 80586   | 1445210  | 3.78%  | 0.083% |
| 48         | 5.456 | 5.424 | 5.471 | VV | 66107   | 1422469  | 3.72%  | 0.081% |
| 49         | 5.487 | 5.471 | 5.502 | VV | 74692   | 1071881  | 2.81%  | 0.061% |
| 50         | 5.519 | 5.502 | 5.536 | VV | 71125   | 1126341  | 2.95%  | 0.064% |
| 51         | 5.544 | 5.536 | 5.571 | VV | 48522   | 789341   | 2.07%  | 0.045% |
| 52         | 5.597 | 5.571 | 5.610 | VV | 116973  | 1549373  | 4.06%  | 0.089% |
| 53         | 5.625 | 5.610 | 5.645 | VV | 135925  | 1618607  | 4.24%  | 0.093% |
| 54         | 5.662 | 5.645 | 5.674 | VV | 72134   | 841639   | 2.20%  | 0.048% |
| 55         | 5.682 | 5.674 | 5.698 | VV | 54988   | 614674   | 1.61%  | 0.035% |
| 56         | 5.728 | 5.698 | 5.739 | VV | 59384   | 1082148  | 2.83%  | 0.062% |
| 57         | 5.747 | 5.739 | 5.757 | VV | 54908   | 560776   | 1.47%  | 0.032% |
| 58         | 5.781 | 5.757 | 5.817 | VV | 278738  | 4492447  | 11.76% | 0.257% |
| 59         | 5.834 | 5.817 | 5.851 | VV | 82454   | 1353196  | 3.54%  | 0.077% |
| 60         | 5.875 | 5.851 | 5.914 | VV | 241083  | 5244055  | 13.73% | 0.300% |
| 61         | 5.932 | 5.914 | 5.969 | VV | 173518  | 2783372  | 7.29%  | 0.159% |
| 62         | 6.000 | 5.969 | 6.024 | VV | 102748  | 2295672  | 6.01%  | 0.131% |
| 63         | 6.047 | 6.024 | 6.070 | VV | 107014  | 1799928  | 4.71%  | 0.103% |
| 64         | 6.092 | 6.070 | 6.114 | VV | 120664  | 2368542  | 6.20%  | 0.135% |
| 65         | 6.145 | 6.114 | 6.205 | VV | 327997  | 7617054  | 19.94% | 0.435% |
| 66         | 6.245 | 6.205 | 6.256 | VV | 116209  | 2722963  | 7.13%  | 0.156% |
| 67         | 6.273 | 6.256 | 6.302 | VV | 202642  | 3777279  | 9.89%  | 0.216% |
| 68         | 6.328 | 6.302 | 6.345 | VV | 144789  | 3102565  | 8.12%  | 0.177% |
| 69         | 6.358 | 6.345 | 6.372 | VV | 180237  | 2280044  | 5.97%  | 0.130% |
| 70         | 6.394 | 6.372 | 6.429 | VV | 177245  | 4922479  | 12.88% | 0.281% |
| 71         | 6.451 | 6.429 | 6.471 | VV | 192393  | 3437495  | 9.00%  | 0.196% |
| 72         | 6.509 | 6.471 | 6.541 | VV | 196795  | 6345016  | 16.61% | 0.363% |
| 73         | 6.567 | 6.541 | 6.582 | VV | 390682  | 5526329  | 14.46% | 0.316% |
| 74         | 6.591 | 6.582 | 6.615 | VV | 185784  | 2704307  | 7.08%  | 0.155% |
| 75         | 6.657 | 6.615 | 6.670 | VV | 160197  | 4088565  | 10.70% | 0.234% |
| 76         | 6.717 | 6.670 | 6.738 | VV | 744731  | 12268245 | 32.11% | 0.701% |
| 77         | 6.767 | 6.738 | 6.809 | VV | 326344  | 8767456  | 22.95% | 0.501% |
| 78         | 6.852 | 6.809 | 6.869 | VV | 308614  | 6969082  | 18.24% | 0.398% |
| 79         | 6.893 | 6.869 | 6.915 | VV | 343769  | 6199918  | 16.23% | 0.354% |
| 80         | 6.926 | 6.915 | 6.936 | VV | 176147  | 2025844  | 5.30%  | 0.116% |
| 81         | 6.975 | 6.936 | 6.995 | VV | 426943  | 8676286  | 22.71% | 0.496% |
| 82         | 7.013 | 6.995 | 7.058 | VV | 196780  | 6558181  | 17.17% | 0.375% |
| 83         | 7.095 | 7.058 | 7.113 | VV | 285555  | 7586859  | 19.86% | 0.434% |
| 84         | 7.133 | 7.113 | 7.167 | VV | 384143  | 8388594  | 21.96% | 0.479% |
| 85         | 7.204 | 7.167 | 7.230 | VV | 1154110 | 17687899 | 46.30% | 1.011% |
| 86         | 7.271 | 7.230 | 7.314 | VV | 992185  | 20608051 | 53.94% | 1.178% |
| 87         | 7.337 | 7.314 | 7.357 | VV | 853924  | 12004296 | 31.42% | 0.686% |
| 88         | 7.374 | 7.357 | 7.392 | VV | 360194  | 5723721  | 14.98% | 0.327% |
| 89         | 7.418 | 7.392 | 7.438 | VV | 255364  | 6460932  | 16.91% | 0.369% |

| rteres.txt |       |       |       |    |         |          |        |        |
|------------|-------|-------|-------|----|---------|----------|--------|--------|
| 90         | 7.480 | 7.438 | 7.522 | VV | 403642  | 15193782 | 39.77% | 0.868% |
| 91         | 7.540 | 7.522 | 7.566 | VV | 350104  | 8097425  | 21.19% | 0.463% |
| 92         | 7.583 | 7.566 | 7.600 | VV | 368467  | 6885271  | 18.02% | 0.394% |
| 93         | 7.609 | 7.600 | 7.620 | VV | 294816  | 3375460  | 8.84%  | 0.193% |
| 94         | 7.629 | 7.620 | 7.638 | VV | 283927  | 2904067  | 7.60%  | 0.166% |
| 95         | 7.665 | 7.638 | 7.705 | VV | 622927  | 16008767 | 41.90% | 0.915% |
| 96         | 7.720 | 7.705 | 7.737 | VV | 351255  | 5715676  | 14.96% | 0.327% |
| 97         | 7.749 | 7.737 | 7.774 | VV | 244861  | 5150099  | 13.48% | 0.294% |
| 98         | 7.805 | 7.774 | 7.821 | VV | 746307  | 13076561 | 34.23% | 0.747% |
| 99         | 7.832 | 7.821 | 7.870 | VV | 479367  | 10454883 | 27.36% | 0.598% |
| 100        | 7.885 | 7.870 | 7.897 | VV | 296677  | 4464136  | 11.68% | 0.255% |
| 101        | 7.931 | 7.897 | 7.947 | VV | 369063  | 9736981  | 25.49% | 0.557% |
| 102        | 7.960 | 7.947 | 7.981 | VV | 334538  | 6361498  | 16.65% | 0.364% |
| 103        | 8.012 | 7.981 | 8.032 | VV | 369585  | 9689214  | 25.36% | 0.554% |
| 104        | 8.080 | 8.032 | 8.157 | VV | 659354  | 31123293 | 81.46% | 1.779% |
| 105        | 8.187 | 8.157 | 8.233 | VV | 1871465 | 37590574 | 98.39% | 2.149% |
| 106        | 8.247 | 8.233 | 8.261 | VV | 364652  | 5847997  | 15.31% | 0.334% |
| 107        | 8.305 | 8.261 | 8.319 | VV | 1430757 | 26348966 | 68.97% | 1.506% |
| 108        | 8.331 | 8.319 | 8.345 | VV | 1167529 | 13584879 | 35.56% | 0.776% |
| 109        | 8.359 | 8.345 | 8.377 | VV | 753883  | 10767186 | 28.18% | 0.615% |
| 110        | 8.406 | 8.377 | 8.427 | VV | 679522  | 13882094 | 36.34% | 0.793% |
| 111        | 8.465 | 8.427 | 8.515 | VV | 792490  | 29415976 | 76.99% | 1.681% |
| 112        | 8.535 | 8.515 | 8.560 | VV | 781127  | 15277170 | 39.99% | 0.873% |
| 113        | 8.573 | 8.560 | 8.622 | VV | 615219  | 17005873 | 44.51% | 0.972% |
| 114        | 8.641 | 8.622 | 8.665 | VV | 455955  | 10668232 | 27.92% | 0.610% |
| 115        | 8.682 | 8.665 | 8.700 | VV | 655369  | 10165544 | 26.61% | 0.581% |
| 116        | 8.721 | 8.700 | 8.740 | VV | 577126  | 10838223 | 28.37% | 0.619% |
| 117        | 8.777 | 8.740 | 8.797 | VV | 724278  | 17004057 | 44.51% | 0.972% |
| 118        | 8.826 | 8.797 | 8.852 | VV | 720496  | 16714860 | 43.75% | 0.955% |
| 119        | 8.901 | 8.852 | 8.920 | VV | 1662465 | 33294173 | 87.15% | 1.903% |
| 120        | 8.935 | 8.920 | 8.950 | VV | 493397  | 7589815  | 19.87% | 0.434% |
| 121        | 8.979 | 8.950 | 8.990 | VV | 434173  | 9702168  | 25.39% | 0.555% |
| 122        | 9.014 | 8.990 | 9.032 | VV | 1070481 | 17302124 | 45.29% | 0.989% |
| 123        | 9.045 | 9.032 | 9.065 | VV | 674017  | 10742710 | 28.12% | 0.614% |
| 124        | 9.083 | 9.065 | 9.097 | VV | 494114  | 8209045  | 21.49% | 0.469% |
| 125        | 9.134 | 9.097 | 9.150 | VV | 666962  | 16942578 | 44.35% | 0.968% |
| 126        | 9.186 | 9.150 | 9.204 | VV | 939266  | 19795186 | 51.81% | 1.131% |
| 127        | 9.228 | 9.204 | 9.245 | VV | 1045502 | 17062205 | 44.66% | 0.975% |
| 128        | 9.261 | 9.245 | 9.284 | VV | 542579  | 10819969 | 28.32% | 0.618% |
| 129        | 9.341 | 9.284 | 9.359 | VV | 818143  | 22532590 | 58.98% | 1.288% |
| 130        | 9.374 | 9.359 | 9.396 | VV | 801189  | 12274381 | 32.13% | 0.702% |
| 131        | 9.412 | 9.396 | 9.429 | VV | 427052  | 7626907  | 19.96% | 0.436% |
| 132        | 9.477 | 9.429 | 9.495 | VV | 826030  | 21968086 | 57.50% | 1.256% |
| 133        | 9.507 | 9.495 | 9.527 | VV | 468508  | 7896061  | 20.67% | 0.451% |
| 134        | 9.557 | 9.527 | 9.572 | VV | 769099  | 14794672 | 38.72% | 0.846% |
| 135        | 9.584 | 9.572 | 9.603 | VV | 620603  | 9354402  | 24.48% | 0.535% |
| 136        | 9.637 | 9.603 | 9.688 | VV | 887359  | 28686720 | 75.09% | 1.640% |
| 137        | 9.710 | 9.688 | 9.743 | VV | 710023  | 17625392 | 46.13% | 1.007% |
| 138        | 9.758 | 9.743 | 9.785 | VV | 631068  | 13003019 | 34.03% | 0.743% |
| 139        | 9.795 | 9.785 | 9.818 | VV | 447880  | 7993999  | 20.92% | 0.457% |
| 140        | 9.832 | 9.818 | 9.850 | VV | 381168  | 6862957  | 17.96% | 0.392% |
| 141        | 9.881 | 9.850 | 9.892 | VV | 549091  | 11707892 | 30.64% | 0.669% |

|     |        |        |        |    | rteres.txt |          |         |        |
|-----|--------|--------|--------|----|------------|----------|---------|--------|
| 142 | 9.910  | 9.892  | 9.937  | VV | 641116     | 15577005 | 40.77%  | 0.890% |
| 143 | 9.954  | 9.937  | 10.002 | VV | 800855     | 22297760 | 58.36%  | 1.274% |
| 144 | 10.018 | 10.002 | 10.047 | VV | 486787     | 12364144 | 32.36%  | 0.707% |
| 145 | 10.061 | 10.047 | 10.105 | VV | 507297     | 15146428 | 39.64%  | 0.866% |
| 146 | 10.136 | 10.105 | 10.210 | VV | 536082     | 25148062 | 65.82%  | 1.437% |
| 147 | 10.230 | 10.210 | 10.250 | VV | 415080     | 8814192  | 23.07%  | 0.504% |
| 148 | 10.295 | 10.250 | 10.313 | VV | 538945     | 15002127 | 39.27%  | 0.857% |
| 149 | 10.346 | 10.313 | 10.370 | VV | 1420680    | 26723623 | 69.95%  | 1.527% |
| 150 | 10.405 | 10.370 | 10.419 | VV | 588938     | 13302156 | 34.82%  | 0.760% |
| 151 | 10.431 | 10.419 | 10.456 | VV | 570842     | 10482311 | 27.44%  | 0.599% |
| 152 | 10.479 | 10.456 | 10.517 | VV | 770376     | 17975525 | 47.05%  | 1.027% |
| 153 | 10.563 | 10.517 | 10.594 | VV | 511228     | 20066713 | 52.52%  | 1.147% |
| 154 | 10.617 | 10.594 | 10.644 | VV | 573194     | 14279721 | 37.38%  | 0.816% |
| 155 | 10.687 | 10.644 | 10.705 | VV | 524967     | 16838804 | 44.07%  | 0.962% |
| 156 | 10.719 | 10.705 | 10.733 | VV | 464013     | 7359881  | 19.26%  | 0.421% |
| 157 | 10.769 | 10.733 | 10.794 | VV | 2045478    | 38205351 | 100.00% | 2.184% |
| 158 | 10.805 | 10.794 | 10.845 | VV | 453228     | 12624868 | 33.04%  | 0.722% |
| 159 | 10.857 | 10.845 | 10.867 | VV | 374249     | 4815608  | 12.60%  | 0.275% |
| 160 | 10.898 | 10.867 | 10.912 | VV | 394947     | 9986698  | 26.14%  | 0.571% |
| 161 | 10.960 | 10.912 | 11.002 | VV | 769053     | 24188587 | 63.31%  | 1.383% |
| 162 | 11.031 | 11.002 | 11.059 | VV | 600092     | 14926604 | 39.07%  | 0.853% |
| 163 | 11.080 | 11.059 | 11.109 | VV | 523697     | 12253128 | 32.07%  | 0.700% |
| 164 | 11.164 | 11.109 | 11.187 | VV | 391499     | 15806390 | 41.37%  | 0.903% |
| 165 | 11.219 | 11.187 | 11.230 | VV | 346279     | 8723844  | 22.83%  | 0.499% |
| 166 | 11.259 | 11.230 | 11.280 | VV | 430242     | 11002109 | 28.80%  | 0.629% |
| 167 | 11.299 | 11.280 | 11.325 | VV | 409784     | 10231217 | 26.78%  | 0.585% |
| 168 | 11.346 | 11.325 | 11.356 | VV | 387020     | 6762225  | 17.70%  | 0.387% |
| 169 | 11.385 | 11.356 | 11.406 | VV | 650322     | 14000312 | 36.64%  | 0.800% |
| 170 | 11.426 | 11.406 | 11.450 | VV | 374239     | 9457421  | 24.75%  | 0.541% |
| 171 | 11.481 | 11.450 | 11.514 | VV | 1239601    | 24784493 | 64.87%  | 1.417% |
| 172 | 11.542 | 11.514 | 11.563 | VV | 355400     | 9293059  | 24.32%  | 0.531% |
| 173 | 11.604 | 11.563 | 11.620 | VV | 394501     | 11322969 | 29.64%  | 0.647% |
| 174 | 11.646 | 11.620 | 11.669 | VV | 345219     | 9410373  | 24.63%  | 0.538% |
| 175 | 11.687 | 11.669 | 11.695 | VV | 338772     | 5072540  | 13.28%  | 0.290% |
| 176 | 11.709 | 11.695 | 11.727 | VV | 383373     | 6568398  | 17.19%  | 0.375% |
| 177 | 11.754 | 11.727 | 11.769 | VV | 462888     | 9058266  | 23.71%  | 0.518% |
| 178 | 11.785 | 11.769 | 11.809 | VV | 501853     | 8694070  | 22.76%  | 0.497% |
| 179 | 11.851 | 11.809 | 11.879 | VV | 292981     | 11342091 | 29.69%  | 0.648% |
| 180 | 11.900 | 11.879 | 11.917 | VV | 395298     | 7494162  | 19.62%  | 0.428% |
| 181 | 11.934 | 11.917 | 11.987 | VV | 381999     | 12335979 | 32.29%  | 0.705% |
| 182 | 12.031 | 11.987 | 12.057 | VV | 475025     | 13975201 | 36.58%  | 0.799% |
| 183 | 12.084 | 12.057 | 12.102 | VV | 280365     | 7215339  | 18.89%  | 0.412% |
| 184 | 12.123 | 12.102 | 12.137 | VV | 259405     | 5147313  | 13.47%  | 0.294% |
| 185 | 12.155 | 12.137 | 12.174 | VV | 298233     | 5947083  | 15.57%  | 0.340% |
| 186 | 12.181 | 12.174 | 12.229 | VV | 259145     | 7580979  | 19.84%  | 0.433% |
| 187 | 12.249 | 12.229 | 12.264 | VV | 279291     | 5189735  | 13.58%  | 0.297% |
| 188 | 12.280 | 12.264 | 12.305 | VV | 275076     | 6090699  | 15.94%  | 0.348% |
| 189 | 12.319 | 12.305 | 12.342 | VV | 218784     | 4735232  | 12.39%  | 0.271% |
| 190 | 12.360 | 12.342 | 12.380 | VV | 221534     | 4855902  | 12.71%  | 0.278% |
| 191 | 12.395 | 12.380 | 12.414 | VV | 227343     | 4270738  | 11.18%  | 0.244% |
| 192 | 12.428 | 12.414 | 12.450 | VV | 214788     | 4497836  | 11.77%  | 0.257% |
| 193 | 12.484 | 12.450 | 12.505 | VV | 226289     | 6895143  | 18.05%  | 0.394% |
| 194 | 12.537 | 12.505 | 12.582 | VV | 263244     | 9857447  | 25.80%  | 0.563% |

|     |        |        |        |    |            |          |        |        |
|-----|--------|--------|--------|----|------------|----------|--------|--------|
|     |        |        |        |    | rteres.txt |          |        |        |
| 195 | 12.608 | 12.582 | 12.625 | VV | 237981     | 5529551  | 14.47% | 0.316% |
| 196 | 12.647 | 12.625 | 12.663 | VV | 303877     | 5623149  | 14.72% | 0.321% |
| 197 | 12.684 | 12.663 | 12.734 | VV | 507942     | 11559007 | 30.25% | 0.661% |
| 198 | 12.764 | 12.734 | 12.805 | VV | 319128     | 8746121  | 22.89% | 0.500% |
| 199 | 12.827 | 12.805 | 12.849 | VV | 173464     | 4188435  | 10.96% | 0.239% |
| 200 | 12.884 | 12.849 | 12.932 | VV | 156071     | 7176814  | 18.78% | 0.410% |
| 201 | 12.958 | 12.932 | 12.985 | VV | 146400     | 4406461  | 11.53% | 0.252% |
| 202 | 13.005 | 12.985 | 13.032 | VV | 145376     | 3696282  | 9.67%  | 0.211% |
| 203 | 13.061 | 13.032 | 13.100 | VV | 293953     | 7068653  | 18.50% | 0.404% |
| 204 | 13.127 | 13.100 | 13.153 | VV | 411134     | 7177209  | 18.79% | 0.410% |
| 205 | 13.177 | 13.153 | 13.217 | VV | 174726     | 5421821  | 14.19% | 0.310% |
| 206 | 13.226 | 13.217 | 13.250 | VV | 118283     | 2250852  | 5.89%  | 0.129% |
| 207 | 13.257 | 13.250 | 13.267 | VV | 106733     | 1062885  | 2.78%  | 0.061% |
| 208 | 13.290 | 13.267 | 13.319 | VV | 338188     | 5848550  | 15.31% | 0.334% |
| 209 | 13.339 | 13.319 | 13.366 | VV | 113171     | 2994118  | 7.84%  | 0.171% |
| 210 | 13.385 | 13.366 | 13.435 | VV | 114236     | 3924387  | 10.27% | 0.224% |
| 211 | 13.451 | 13.435 | 13.469 | VV | 89654      | 1704621  | 4.46%  | 0.097% |
| 212 | 13.473 | 13.469 | 13.492 | VV | 85445      | 1151395  | 3.01%  | 0.066% |
| 213 | 13.515 | 13.492 | 13.540 | VV | 101494     | 2546456  | 6.67%  | 0.146% |
| 214 | 13.561 | 13.540 | 13.585 | VV | 80729      | 2074115  | 5.43%  | 0.119% |
| 215 | 13.602 | 13.585 | 13.665 | VV | 75543      | 3287369  | 8.60%  | 0.188% |
| 216 | 13.726 | 13.665 | 13.757 | VV | 66842      | 3478805  | 9.11%  | 0.199% |
| 217 | 13.785 | 13.757 | 13.820 | VV | 68991      | 2317067  | 6.06%  | 0.132% |
| 218 | 13.832 | 13.820 | 13.844 | VV | 54448      | 763483   | 2.00%  | 0.044% |
| 219 | 13.873 | 13.844 | 13.919 | VV | 279519     | 4997790  | 13.08% | 0.286% |
| 220 | 13.926 | 13.919 | 13.947 | VV | 50722      | 831765   | 2.18%  | 0.048% |
| 221 | 13.955 | 13.947 | 13.981 | VV | 48137      | 938092   | 2.46%  | 0.054% |
| 222 | 13.992 | 13.981 | 14.005 | VV | 43535      | 614358   | 1.61%  | 0.035% |
| 223 | 14.018 | 14.005 | 14.042 | VV | 43079      | 899034   | 2.35%  | 0.051% |
| 224 | 14.051 | 14.042 | 14.069 | VV | 36885      | 583509   | 1.53%  | 0.033% |
| 225 | 14.106 | 14.069 | 14.149 | VV | 49922      | 1915963  | 5.01%  | 0.110% |
| 226 | 14.164 | 14.149 | 14.220 | VV | 35175      | 1379063  | 3.61%  | 0.079% |
| 227 | 14.250 | 14.220 | 14.320 | VV | 33371      | 1778474  | 4.66%  | 0.102% |
| 228 | 14.328 | 14.320 | 14.379 | VV | 27278      | 889760   | 2.33%  | 0.051% |
| 229 | 14.390 | 14.379 | 14.415 | VV | 23853      | 495279   | 1.30%  | 0.028% |
| 230 | 14.428 | 14.415 | 14.454 | VV | 22246      | 499608   | 1.31%  | 0.029% |
| 231 | 14.498 | 14.454 | 14.534 | VV | 22117      | 970159   | 2.54%  | 0.055% |
| 232 | 14.555 | 14.534 | 14.608 | VV | 23202      | 858181   | 2.25%  | 0.049% |
| 233 | 14.620 | 14.608 | 14.664 | VV | 16171      | 520446   | 1.36%  | 0.030% |
| 234 | 14.668 | 14.664 | 14.689 | VV | 15187      | 226887   | 0.59%  | 0.013% |
| 235 | 14.701 | 14.689 | 14.761 | VV | 15043      | 588526   | 1.54%  | 0.034% |
| 236 | 14.781 | 14.761 | 14.799 | VV | 12155      | 267189   | 0.70%  | 0.015% |
| 237 | 14.806 | 14.799 | 14.842 | VV | 11889      | 292005   | 0.76%  | 0.017% |
| 238 | 14.866 | 14.842 | 14.897 | VV | 10903      | 343619   | 0.90%  | 0.020% |
| 239 | 14.924 | 14.897 | 14.943 | VV | 85645      | 1119066  | 2.93%  | 0.064% |
| 240 | 14.968 | 14.943 | 15.087 | VV | 292667     | 4324470  | 11.32% | 0.247% |
| 241 | 15.109 | 15.087 | 15.144 | VV | 7925       | 238628   | 0.62%  | 0.014% |
| 242 | 15.169 | 15.144 | 15.194 | VV | 5946       | 170676   | 0.45%  | 0.010% |
| 243 | 15.221 | 15.194 | 15.284 | VV | 6177       | 283941   | 0.74%  | 0.016% |
| 244 | 15.307 | 15.284 | 15.397 | VV | 4893       | 282525   | 0.74%  | 0.016% |
| 245 | 15.406 | 15.397 | 15.459 | VV | 4035       | 128593   | 0.34%  | 0.007% |
| 246 | 15.485 | 15.459 | 15.614 | VV | 5306       | 303616   | 0.79%  | 0.017% |

|     |        |        |        |    |            |         |       |        |  |
|-----|--------|--------|--------|----|------------|---------|-------|--------|--|
|     |        |        |        |    | rteres.txt |         |       |        |  |
| 247 | 15.629 | 15.614 | 15.654 | VV | 2076       | 45718   | 0.12% | 0.003% |  |
| 248 | 15.665 | 15.654 | 15.696 | VV | 1890       | 43899   | 0.11% | 0.003% |  |
| 249 | 15.702 | 15.696 | 15.720 | VV | 1708       | 23683   | 0.06% | 0.001% |  |
| 250 | 15.749 | 15.720 | 15.768 | VV | 1755       | 46937   | 0.12% | 0.003% |  |
| 251 | 15.796 | 15.768 | 15.842 | VV | 2342       | 80010   | 0.21% | 0.005% |  |
| 252 | 15.851 | 15.842 | 15.923 | VV | 1307       | 52620   | 0.14% | 0.003% |  |
| 253 | 15.986 | 15.923 | 16.072 | VV | 204702     | 2740754 | 7.17% | 0.157% |  |
| 254 | 16.087 | 16.072 | 16.105 | VV | 554        | 9396    | 0.02% | 0.001% |  |
| 255 | 16.121 | 16.105 | 16.134 | VV | 539        | 7189    | 0.02% | 0.000% |  |
| 256 | 16.146 | 16.134 | 16.170 | VV | 587        | 10441   | 0.03% | 0.001% |  |
| 257 | 16.195 | 16.170 | 16.257 | VV | 812        | 27752   | 0.07% | 0.002% |  |
| 258 | 16.298 | 16.257 | 16.325 | VV | 1167       | 26141   | 0.07% | 0.001% |  |
| 259 | 16.346 | 16.325 | 16.404 | VV | 553        | 15985   | 0.04% | 0.001% |  |
| 260 | 16.474 | 16.404 | 16.490 | VV | 44763      | 567690  | 1.49% | 0.032% |  |
| 261 | 16.506 | 16.490 | 16.592 | VV | 44669      | 578771  | 1.51% | 0.033% |  |
| 262 | 16.626 | 16.592 | 16.640 | VV | 476        | 9227    | 0.02% | 0.001% |  |
| 263 | 16.681 | 16.640 | 16.728 | VV | 594        | 18774   | 0.05% | 0.001% |  |
| 264 | 16.761 | 16.728 | 16.780 | PV | 304        | 6088    | 0.02% | 0.000% |  |
| 265 | 16.807 | 16.780 | 16.827 | VV | 701        | 10658   | 0.03% | 0.001% |  |
| 266 | 16.857 | 16.827 | 16.896 | VV | 57449      | 741184  | 1.94% | 0.042% |  |
| 267 | 16.933 | 16.896 | 16.969 | VV | 207558     | 2655921 | 6.95% | 0.152% |  |
| 268 | 16.977 | 16.969 | 17.027 | VV | 1763       | 26888   | 0.07% | 0.002% |  |
| 269 | 17.041 | 17.027 | 17.100 | VV | 353        | 9948    | 0.03% | 0.001% |  |
| 270 | 17.164 | 17.100 | 17.173 | PV | 432        | 11270   | 0.03% | 0.001% |  |
| 271 | 17.192 | 17.173 | 17.236 | VV | 593        | 13107   | 0.03% | 0.001% |  |
| 272 | 17.260 | 17.236 | 17.285 | VV | 461        | 8596    | 0.02% | 0.000% |  |
| 273 | 17.333 | 17.285 | 17.344 | VV | 201        | 5071    | 0.01% | 0.000% |  |
| 274 | 17.380 | 17.344 | 17.425 | VV | 7685       | 109708  | 0.29% | 0.006% |  |
| 275 | 17.429 | 17.425 | 17.450 | VV | 191        | 1284    | 0.00% | 0.000% |  |
| 276 | 17.468 | 17.450 | 17.490 | PV | 364        | 6942    | 0.02% | 0.000% |  |
| 277 | 17.510 | 17.490 | 17.545 | VV | 510        | 10442   | 0.03% | 0.001% |  |
| 278 | 17.559 | 17.545 | 17.573 | VV | 159        | 1775    | 0.00% | 0.000% |  |
| 279 | 17.602 | 17.573 | 17.617 | VV | 227        | 3344    | 0.01% | 0.000% |  |
| 280 | 17.663 | 17.617 | 17.697 | PV | 554        | 11324   | 0.03% | 0.001% |  |
| 281 | 17.817 | 17.697 | 17.912 | VV | 198681     | 2677314 | 7.01% | 0.153% |  |
| 282 | 17.979 | 17.912 | 18.000 | VV | 1059       | 24849   | 0.07% | 0.001% |  |
| 283 | 18.005 | 18.000 | 18.048 | VV | 543        | 8146    | 0.02% | 0.000% |  |
| 284 | 18.084 | 18.048 | 18.110 | PV | 673        | 10985   | 0.03% | 0.001% |  |
| 285 | 18.142 | 18.110 | 18.159 | VV | 190        | 4312    | 0.01% | 0.000% |  |
| 286 | 18.185 | 18.159 | 18.195 | PV | 373        | 5597    | 0.01% | 0.000% |  |
| 287 | 18.226 | 18.195 | 18.250 | VV | 32218      | 467469  | 1.22% | 0.027% |  |
| 288 | 18.261 | 18.250 | 18.322 | VV | 10473      | 159812  | 0.42% | 0.009% |  |
| 289 | 18.345 | 18.322 | 18.369 | VV | 1213       | 19708   | 0.05% | 0.001% |  |
| 290 | 18.378 | 18.369 | 18.396 | VV | 301        | 2690    | 0.01% | 0.000% |  |
| 291 | 18.479 | 18.396 | 18.580 | PV | 43701      | 635536  | 1.66% | 0.036% |  |
| 292 | 18.647 | 18.580 | 18.735 | VV | 193782     | 2597435 | 6.80% | 0.148% |  |
| 293 | 18.769 | 18.735 | 18.793 | VV | 467        | 7542    | 0.02% | 0.000% |  |
| 294 | 18.816 | 18.793 | 18.834 | PV | 309        | 3834    | 0.01% | 0.000% |  |
| 295 | 18.903 | 18.834 | 18.924 | PV | 216        | 3186    | 0.01% | 0.000% |  |
| 296 | 18.953 | 18.924 | 18.962 | PV | 245        | 3080    | 0.01% | 0.000% |  |
| 297 | 19.041 | 18.962 | 19.073 | VV | 3385       | 56057   | 0.15% | 0.003% |  |
| 298 | 19.095 | 19.073 | 19.110 | VV | 463        | 7723    | 0.02% | 0.000% |  |
| 299 | 19.204 | 19.110 | 19.224 | VV | 859        | 35962   | 0.09% | 0.002% |  |

|     |        |        |        |    |                                    |         |       |        |
|-----|--------|--------|--------|----|------------------------------------|---------|-------|--------|
|     |        |        |        |    | rteres.txt                         |         |       |        |
| 300 | 19.241 | 19.224 | 19.250 | VV | 595                                | 8882    | 0.02% | 0.001% |
| 301 | 19.292 | 19.250 | 19.305 | VV | 794                                | 20257   | 0.05% | 0.001% |
| 302 | 19.427 | 19.305 | 19.497 | VV | 171693                             | 2634757 | 6.90% | 0.151% |
| 303 | 19.711 | 19.497 | 19.735 | VV | 2794                               | 290755  | 0.76% | 0.017% |
| 304 | 19.800 | 19.735 | 19.827 | VV | 4440                               | 164375  | 0.43% | 0.009% |
| 305 | 20.062 | 19.827 | 20.087 | VV | 5312                               | 595592  | 1.56% | 0.034% |
| 306 | 20.166 | 20.087 | 20.225 | VV | 175554                             | 2871377 | 7.52% | 0.164% |
| 307 | 20.376 | 20.225 | 20.415 | VV | 9146                               | 908451  | 2.38% | 0.052% |
| 308 | 20.434 | 20.415 | 20.450 | VV | 8518                               | 176574  | 0.46% | 0.010% |
| 309 | 20.521 | 20.450 | 20.592 | VV | 9505                               | 717531  | 1.88% | 0.041% |
| 310 | 20.599 | 20.592 | 20.627 | VV | 7845                               | 164304  | 0.43% | 0.009% |
| 311 | 20.630 | 20.627 | 20.643 | VV | 7547                               | 71578   | 0.19% | 0.004% |
| 312 | 20.676 | 20.643 | 20.744 | VV | 7786                               | 444162  | 1.16% | 0.025% |
| 313 | 20.765 | 20.744 | 20.842 | VV | 6647                               | 373541  | 0.98% | 0.021% |
| 314 | 20.914 | 20.842 | 21.093 | VV | 136014                             | 3118522 | 8.16% | 0.178% |
| 315 | 21.113 | 21.093 | 21.162 | VV | 4475                               | 180215  | 0.47% | 0.010% |
| 316 | 21.167 | 21.162 | 21.179 | VV | 4245                               | 41313   | 0.11% | 0.002% |
| 317 | 21.188 | 21.179 | 21.199 | VV | 4204                               | 48724   | 0.13% | 0.003% |
| 318 | 21.227 | 21.199 | 21.302 | VV | 4261                               | 235252  | 0.62% | 0.013% |
| 319 | 21.348 | 21.302 | 21.405 | VV | 3710                               | 201204  | 0.53% | 0.012% |
| 320 | 21.419 | 21.405 | 21.427 | VV | 2754                               | 34512   | 0.09% | 0.002% |
| 321 | 21.482 | 21.427 | 21.494 | VV | 2535                               | 99725   | 0.26% | 0.006% |
| 322 | 21.502 | 21.494 | 21.535 | VV | 2550                               | 54337   | 0.14% | 0.003% |
| 323 | 21.546 | 21.535 | 21.567 | VV | 2069                               | 38656   | 0.10% | 0.002% |
| 324 | 21.579 | 21.567 | 21.620 | VV | 1926                               | 56701   | 0.15% | 0.003% |
| 325 | 21.630 | 21.620 | 21.649 | VV | 1634                               | 24714   | 0.06% | 0.001% |
| 326 | 21.657 | 21.649 | 21.687 | VV | 1292                               | 26217   | 0.07% | 0.001% |
| 327 | 21.694 | 21.687 | 21.722 | VV | 989                                | 17637   | 0.05% | 0.001% |
| 328 | 21.740 | 21.722 | 21.754 | VV | 695                                | 12413   | 0.03% | 0.001% |
| 329 | 21.852 | 21.754 | 21.942 | VV | 99155                              | 2379402 | 6.23% | 0.136% |
|     |        |        |        |    | Sum of corrected areas: 1749593718 |         |       |        |

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