

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_C\Data\FC100418AL\  
 Data File : FC036671.D  
 Signal(s) : FID1A.CH  
 Acq On : 04 Oct 2018 16:31  
 Sample : J5218-01MSD  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\PESTPCBSRV\HPCHEM1\FID\_C\Method\Alaphatic EPH 092118.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         | 3.190       | 3.152        | 3.269      | BV       | 397076         | 3359719      | 1.39%          | 0.044%        |
| 2         | 3.289       | 3.269        | 3.302      | VV       | 841            | 10901        | 0.00%          | 0.000%        |
| 3         | 3.314       | 3.302        | 3.354      | VV       | 949            | 15048        | 0.01%          | 0.000%        |
| 4         | 3.364       | 3.354        | 3.377      | VV       | 256            | 2228         | 0.00%          | 0.000%        |
| 5         | 3.388       | 3.377        | 3.399      | VV       | 321            | 3197         | 0.00%          | 0.000%        |
| 6         | 3.409       | 3.399        | 3.439      | VV       | 261            | 2705         | 0.00%          | 0.000%        |
| 7         | 3.467       | 3.439        | 3.477      | PV       | 302            | 3298         | 0.00%          | 0.000%        |
| 8         | 3.494       | 3.477        | 3.542      | VV       | 758            | 14325        | 0.01%          | 0.000%        |
| 9         | 3.556       | 3.542        | 3.584      | VV       | 671            | 9339         | 0.00%          | 0.000%        |
| 10        | 3.594       | 3.584        | 3.615      | VV       | 369            | 4144         | 0.00%          | 0.000%        |
| 11        | 3.638       | 3.615        | 3.666      | VV       | 1227           | 13909        | 0.01%          | 0.000%        |
| 12        | 3.681       | 3.666        | 3.715      | VV       | 426            | 5917         | 0.00%          | 0.000%        |
| 13        | 3.736       | 3.715        | 3.749      | VV       | 341            | 3588         | 0.00%          | 0.000%        |
| 14        | 3.763       | 3.749        | 3.781      | VV       | 325            | 3131         | 0.00%          | 0.000%        |
| 15        | 3.790       | 3.781        | 3.826      | VV       | 170            | 2579         | 0.00%          | 0.000%        |
| 16        | 3.860       | 3.826        | 3.897      | PV       | 2851           | 51244        | 0.02%          | 0.001%        |
| 17        | 3.908       | 3.897        | 3.934      | VV       | 737            | 11939        | 0.00%          | 0.000%        |
| 18        | 3.950       | 3.934        | 3.973      | VV       | 1252           | 13380        | 0.01%          | 0.000%        |
| 19        | 4.007       | 3.973        | 4.041      | PV       | 14996          | 150332       | 0.06%          | 0.002%        |
| 20        | 4.053       | 4.041        | 4.097      | VV       | 1424           | 27633        | 0.01%          | 0.000%        |
| 21        | 4.110       | 4.097        | 4.141      | VV       | 1175           | 14464        | 0.01%          | 0.000%        |
| 22        | 4.177       | 4.141        | 4.192      | VV       | 960            | 14815        | 0.01%          | 0.000%        |
| 23        | 4.204       | 4.192        | 4.227      | VV       | 669            | 9215         | 0.00%          | 0.000%        |
| 24        | 4.256       | 4.227        | 4.273      | VV       | 465321         | 4147691      | 1.72%          | 0.054%        |
| 25        | 4.291       | 4.273        | 4.340      | VV       | 521196         | 4724368      | 1.95%          | 0.061%        |
| 26        | 4.355       | 4.340        | 4.377      | VV       | 5712           | 67236        | 0.03%          | 0.001%        |
| 27        | 4.397       | 4.377        | 4.420      | VV       | 11515          | 130192       | 0.05%          | 0.002%        |
| 28        | 4.432       | 4.420        | 4.447      | VV       | 2320           | 27350        | 0.01%          | 0.000%        |
| 29        | 4.459       | 4.447        | 4.479      | VV       | 1202           | 18213        | 0.01%          | 0.000%        |
| 30        | 4.510       | 4.479        | 4.524      | VV       | 1406           | 27742        | 0.01%          | 0.000%        |
| 31        | 4.532       | 4.524        | 4.566      | VV       | 1075           | 13831        | 0.01%          | 0.000%        |
| 32        | 4.591       | 4.566        | 4.626      | VV       | 2461           | 46619        | 0.02%          | 0.001%        |
| 33        | 4.636       | 4.626        | 4.646      | VV       | 394            | 4315         | 0.00%          | 0.000%        |
| 34        | 4.677       | 4.646        | 4.701      | VV       | 2858           | 41671        | 0.02%          | 0.001%        |
| 35        | 4.719       | 4.701        | 4.751      | VV       | 4977           | 54168        | 0.02%          | 0.001%        |
| 36        | 4.777       | 4.751        | 4.785      | PV       | 562            | 9195         | 0.00%          | 0.000%        |

|    |       |       |       |    |            |         |       |        |  |
|----|-------|-------|-------|----|------------|---------|-------|--------|--|
|    |       |       |       |    | rteres.txt |         |       |        |  |
| 37 | 4.823 | 4.785 | 4.846 | VV | 3695       | 62774   | 0.03% | 0.001% |  |
| 38 | 4.863 | 4.846 | 4.872 | VV | 2413       | 27000   | 0.01% | 0.000% |  |
| 39 | 4.882 | 4.872 | 4.907 | VV | 2586       | 33544   | 0.01% | 0.000% |  |
| 40 | 4.939 | 4.907 | 4.947 | VV | 3232       | 49799   | 0.02% | 0.001% |  |
| 41 | 4.970 | 4.947 | 4.992 | VV | 6291       | 95331   | 0.04% | 0.001% |  |
| 42 | 5.014 | 4.992 | 5.024 | VV | 1647       | 26009   | 0.01% | 0.000% |  |
| 43 | 5.047 | 5.024 | 5.067 | VV | 20917      | 221479  | 0.09% | 0.003% |  |
| 44 | 5.076 | 5.067 | 5.084 | VV | 1915       | 16865   | 0.01% | 0.000% |  |
| 45 | 5.113 | 5.084 | 5.122 | VV | 2274       | 47188   | 0.02% | 0.001% |  |
| 46 | 5.150 | 5.122 | 5.182 | VV | 30611      | 358004  | 0.15% | 0.005% |  |
| 47 | 5.202 | 5.182 | 5.246 | VV | 11885      | 200364  | 0.08% | 0.003% |  |
| 48 | 5.257 | 5.246 | 5.268 | VV | 2661       | 28478   | 0.01% | 0.000% |  |
| 49 | 5.286 | 5.268 | 5.309 | VV | 6708       | 88076   | 0.04% | 0.001% |  |
| 50 | 5.327 | 5.309 | 5.337 | VV | 4529       | 51290   | 0.02% | 0.001% |  |
| 51 | 5.354 | 5.337 | 5.376 | VV | 13415      | 158286  | 0.07% | 0.002% |  |
| 52 | 5.426 | 5.376 | 5.452 | VV | 15791      | 289233  | 0.12% | 0.004% |  |
| 53 | 5.463 | 5.452 | 5.507 | VV | 3908       | 65482   | 0.03% | 0.001% |  |
| 54 | 5.524 | 5.507 | 5.539 | VV | 5578       | 62612   | 0.03% | 0.001% |  |
| 55 | 5.572 | 5.539 | 5.603 | VV | 11383      | 241886  | 0.10% | 0.003% |  |
| 56 | 5.621 | 5.603 | 5.640 | VV | 5329       | 62130   | 0.03% | 0.001% |  |
| 57 | 5.668 | 5.640 | 5.694 | VV | 7977       | 139710  | 0.06% | 0.002% |  |
| 58 | 5.709 | 5.694 | 5.733 | VV | 4679       | 58096   | 0.02% | 0.001% |  |
| 59 | 5.747 | 5.733 | 5.768 | VV | 1303       | 18430   | 0.01% | 0.000% |  |
| 60 | 5.824 | 5.768 | 5.853 | PV | 563353     | 5406512 | 2.24% | 0.070% |  |
| 61 | 5.867 | 5.853 | 5.907 | VV | 20401      | 261400  | 0.11% | 0.003% |  |
| 62 | 5.927 | 5.907 | 5.948 | VV | 29184      | 301491  | 0.12% | 0.004% |  |
| 63 | 5.981 | 5.948 | 6.000 | VV | 12668      | 188131  | 0.08% | 0.002% |  |
| 64 | 6.014 | 6.000 | 6.044 | VV | 8643       | 119249  | 0.05% | 0.002% |  |
| 65 | 6.052 | 6.044 | 6.066 | VV | 1939       | 16138   | 0.01% | 0.000% |  |
| 66 | 6.097 | 6.066 | 6.114 | VV | 2767       | 38968   | 0.02% | 0.001% |  |
| 67 | 6.140 | 6.114 | 6.211 | VV | 7859       | 166324  | 0.07% | 0.002% |  |
| 68 | 6.223 | 6.211 | 6.237 | VV | 2278       | 21921   | 0.01% | 0.000% |  |
| 69 | 6.266 | 6.237 | 6.298 | VV | 469876     | 4697169 | 1.94% | 0.061% |  |
| 70 | 6.315 | 6.298 | 6.346 | VV | 9441       | 142963  | 0.06% | 0.002% |  |
| 71 | 6.383 | 6.346 | 6.400 | VV | 16404      | 275419  | 0.11% | 0.004% |  |
| 72 | 6.410 | 6.400 | 6.427 | VV | 7409       | 78099   | 0.03% | 0.001% |  |
| 73 | 6.446 | 6.427 | 6.465 | VV | 8186       | 96805   | 0.04% | 0.001% |  |
| 74 | 6.485 | 6.465 | 6.502 | VV | 7224       | 96672   | 0.04% | 0.001% |  |
| 75 | 6.526 | 6.502 | 6.577 | VV | 7431       | 144366  | 0.06% | 0.002% |  |
| 76 | 6.590 | 6.577 | 6.605 | VV | 1155       | 10586   | 0.00% | 0.000% |  |
| 77 | 6.664 | 6.605 | 6.681 | PV | 8508       | 216395  | 0.09% | 0.003% |  |
| 78 | 6.702 | 6.681 | 6.722 | VV | 7459       | 133269  | 0.06% | 0.002% |  |
| 79 | 6.755 | 6.722 | 6.766 | VV | 16225      | 199965  | 0.08% | 0.003% |  |
| 80 | 6.775 | 6.766 | 6.802 | VV | 14162      | 194981  | 0.08% | 0.003% |  |
| 81 | 6.814 | 6.802 | 6.831 | VV | 5428       | 64709   | 0.03% | 0.001% |  |
| 82 | 6.875 | 6.831 | 6.934 | VV | 558982     | 5835682 | 2.41% | 0.076% |  |
| 83 | 6.947 | 6.934 | 6.966 | VV | 6899       | 94141   | 0.04% | 0.001% |  |
| 84 | 7.002 | 6.966 | 7.027 | VV | 19371      | 324261  | 0.13% | 0.004% |  |
| 85 | 7.078 | 7.027 | 7.121 | VV | 101348     | 1481710 | 0.61% | 0.019% |  |
| 86 | 7.136 | 7.121 | 7.153 | VV | 14749      | 211892  | 0.09% | 0.003% |  |
| 87 | 7.185 | 7.153 | 7.217 | VV | 28588      | 614483  | 0.25% | 0.008% |  |
| 88 | 7.244 | 7.217 | 7.282 | VV | 46320      | 820675  | 0.34% | 0.011% |  |
| 89 | 7.306 | 7.282 | 7.326 | VV | 33498      | 569342  | 0.24% | 0.007% |  |

|     |        |        |        |    |            |          |       |        |
|-----|--------|--------|--------|----|------------|----------|-------|--------|
|     |        |        |        |    | rteres.txt |          |       |        |
| 90  | 7.348  | 7.326  | 7.361  | VV | 31155      | 527025   | 0.22% | 0.007% |
| 91  | 7.372  | 7.361  | 7.384  | VV | 31038      | 382365   | 0.16% | 0.005% |
| 92  | 7.401  | 7.384  | 7.446  | VV | 55124      | 1001624  | 0.41% | 0.013% |
| 93  | 7.486  | 7.446  | 7.514  | VV | 569017     | 6344115  | 2.63% | 0.082% |
| 94  | 7.532  | 7.514  | 7.566  | VV | 58479      | 1306988  | 0.54% | 0.017% |
| 95  | 7.586  | 7.566  | 7.603  | VV | 44414      | 819821   | 0.34% | 0.011% |
| 96  | 7.614  | 7.603  | 7.632  | VV | 33505      | 521147   | 0.22% | 0.007% |
| 97  | 7.653  | 7.632  | 7.672  | VV | 69434      | 1119626  | 0.46% | 0.015% |
| 98  | 7.694  | 7.672  | 7.721  | VV | 70296      | 1562293  | 0.65% | 0.020% |
| 99  | 7.742  | 7.721  | 7.771  | VV | 154938     | 2416845  | 1.00% | 0.031% |
| 100 | 7.812  | 7.771  | 7.842  | VV | 86163      | 2590030  | 1.07% | 0.034% |
| 101 | 7.861  | 7.842  | 7.907  | VV | 97435      | 2852895  | 1.18% | 0.037% |
| 102 | 7.934  | 7.907  | 7.957  | VV | 93072      | 1874711  | 0.78% | 0.024% |
| 103 | 8.020  | 7.957  | 8.032  | VV | 110723     | 3289423  | 1.36% | 0.043% |
| 104 | 8.056  | 8.032  | 8.077  | VV | 532957     | 6790166  | 2.81% | 0.088% |
| 105 | 8.149  | 8.077  | 8.164  | VV | 635606     | 11866285 | 4.91% | 0.154% |
| 106 | 8.176  | 8.164  | 8.196  | VV | 254608     | 3344254  | 1.38% | 0.043% |
| 107 | 8.235  | 8.196  | 8.255  | VV | 164906     | 4071951  | 1.68% | 0.053% |
| 108 | 8.268  | 8.255  | 8.279  | VV | 98187      | 1219517  | 0.50% | 0.016% |
| 109 | 8.292  | 8.279  | 8.312  | VV | 98335      | 1631603  | 0.68% | 0.021% |
| 110 | 8.346  | 8.312  | 8.383  | VV | 390463     | 6538602  | 2.71% | 0.085% |
| 111 | 8.403  | 8.383  | 8.417  | VV | 76455      | 1343326  | 0.56% | 0.017% |
| 112 | 8.445  | 8.417  | 8.480  | VV | 658244     | 8327638  | 3.45% | 0.108% |
| 113 | 8.494  | 8.480  | 8.514  | VV | 57496      | 1006392  | 0.42% | 0.013% |
| 114 | 8.541  | 8.514  | 8.592  | VV | 67035      | 2194635  | 0.91% | 0.029% |
| 115 | 8.613  | 8.592  | 8.637  | VV | 63742      | 1259666  | 0.52% | 0.016% |
| 116 | 8.651  | 8.637  | 8.664  | VV | 44023      | 634497   | 0.26% | 0.008% |
| 117 | 8.700  | 8.664  | 8.737  | VV | 74405      | 2296765  | 0.95% | 0.030% |
| 118 | 8.788  | 8.737  | 8.806  | VV | 57320      | 1914590  | 0.79% | 0.025% |
| 119 | 8.830  | 8.806  | 8.859  | VV | 224833     | 3471847  | 1.44% | 0.045% |
| 120 | 8.887  | 8.859  | 8.930  | VV | 112394     | 2746628  | 1.14% | 0.036% |
| 121 | 8.961  | 8.930  | 8.981  | VV | 82220      | 1807783  | 0.75% | 0.024% |
| 122 | 9.004  | 8.981  | 9.024  | VV | 70788      | 1554370  | 0.64% | 0.020% |
| 123 | 9.057  | 9.024  | 9.087  | VV | 207063     | 4633350  | 1.92% | 0.060% |
| 124 | 9.126  | 9.087  | 9.177  | VV | 194478     | 5389974  | 2.23% | 0.070% |
| 125 | 9.224  | 9.177  | 9.246  | VV | 559738     | 8493808  | 3.51% | 0.110% |
| 126 | 9.265  | 9.246  | 9.289  | VV | 211202     | 3284860  | 1.36% | 0.043% |
| 127 | 9.311  | 9.289  | 9.351  | VV | 76225      | 2416316  | 1.00% | 0.031% |
| 128 | 9.363  | 9.351  | 9.381  | VV | 52485      | 907360   | 0.38% | 0.012% |
| 129 | 9.413  | 9.381  | 9.429  | VV | 90634      | 2020112  | 0.84% | 0.026% |
| 130 | 9.460  | 9.429  | 9.491  | VV | 113921     | 3352029  | 1.39% | 0.044% |
| 131 | 9.537  | 9.491  | 9.582  | VV | 271030     | 7658047  | 3.17% | 0.100% |
| 132 | 9.602  | 9.582  | 9.618  | VV | 120126     | 2318924  | 0.96% | 0.030% |
| 133 | 9.650  | 9.618  | 9.682  | VV | 572390     | 10443600 | 4.32% | 0.136% |
| 134 | 9.705  | 9.682  | 9.724  | VV | 337867     | 5539552  | 2.29% | 0.072% |
| 135 | 9.737  | 9.724  | 9.756  | VV | 163389     | 2829238  | 1.17% | 0.037% |
| 136 | 9.813  | 9.756  | 9.836  | VV | 522951     | 14408553 | 5.96% | 0.187% |
| 137 | 9.887  | 9.836  | 9.921  | VV | 595571     | 16352802 | 6.77% | 0.213% |
| 138 | 9.941  | 9.921  | 9.954  | VV | 294380     | 4869618  | 2.01% | 0.063% |
| 139 | 9.978  | 9.954  | 9.996  | VV | 445829     | 8763585  | 3.63% | 0.114% |
| 140 | 10.010 | 9.996  | 10.018 | VV | 399948     | 4724673  | 1.95% | 0.061% |
| 141 | 10.039 | 10.018 | 10.084 | VV | 728986     | 15875987 | 6.57% | 0.206% |

|     |        |        |        |    | rteres.txt |           |         |        |
|-----|--------|--------|--------|----|------------|-----------|---------|--------|
| 142 | 10.123 | 10.084 | 10.142 | VV | 898610     | 16560475  | 6.85%   | 0.215% |
| 143 | 10.152 | 10.142 | 10.177 | VV | 366532     | 6366554   | 2.63%   | 0.083% |
| 144 | 10.199 | 10.177 | 10.217 | VV | 314595     | 6393579   | 2.65%   | 0.083% |
| 145 | 10.242 | 10.217 | 10.258 | VV | 310702     | 6932712   | 2.87%   | 0.090% |
| 146 | 10.311 | 10.258 | 10.330 | VV | 1559817    | 33119693  | 13.70%  | 0.431% |
| 147 | 10.346 | 10.330 | 10.367 | VV | 1302849    | 17919847  | 7.41%   | 0.233% |
| 148 | 10.376 | 10.367 | 10.394 | VV | 318626     | 4854193   | 2.01%   | 0.063% |
| 149 | 10.420 | 10.394 | 10.446 | VV | 854098     | 16068394  | 6.65%   | 0.209% |
| 150 | 10.453 | 10.446 | 10.473 | VV | 388452     | 5714440   | 2.36%   | 0.074% |
| 151 | 10.509 | 10.473 | 10.523 | VV | 893237     | 17868363  | 7.39%   | 0.232% |
| 152 | 10.541 | 10.523 | 10.581 | VV | 1118268    | 23592156  | 9.76%   | 0.307% |
| 153 | 10.628 | 10.581 | 10.671 | VV | 1463294    | 33206597  | 13.74%  | 0.432% |
| 154 | 10.701 | 10.671 | 10.725 | VV | 1281734    | 23624182  | 9.78%   | 0.307% |
| 155 | 10.743 | 10.725 | 10.757 | VV | 672858     | 11101027  | 4.59%   | 0.144% |
| 156 | 10.777 | 10.757 | 10.794 | VV | 1169488    | 17367181  | 7.19%   | 0.226% |
| 157 | 10.804 | 10.794 | 10.846 | VV | 528961     | 14363116  | 5.94%   | 0.187% |
| 158 | 10.858 | 10.846 | 10.876 | VV | 385941     | 6480847   | 2.68%   | 0.084% |
| 159 | 10.896 | 10.876 | 10.911 | VV | 663899     | 10622578  | 4.40%   | 0.138% |
| 160 | 10.925 | 10.911 | 10.959 | VV | 542461     | 12998981  | 5.38%   | 0.169% |
| 161 | 11.044 | 10.959 | 11.062 | VV | 2073082    | 57065224  | 23.61%  | 0.742% |
| 162 | 11.105 | 11.062 | 11.137 | VV | 1090664    | 38934173  | 16.11%  | 0.506% |
| 163 | 11.163 | 11.137 | 11.179 | VV | 1130721    | 21318935  | 8.82%   | 0.277% |
| 164 | 11.208 | 11.179 | 11.229 | VV | 1593884    | 35744189  | 14.79%  | 0.465% |
| 165 | 11.258 | 11.229 | 11.275 | VV | 2326518    | 46223743  | 19.13%  | 0.601% |
| 166 | 11.285 | 11.275 | 11.298 | VV | 1619875    | 20977840  | 8.68%   | 0.273% |
| 167 | 11.316 | 11.298 | 11.330 | VV | 1943559    | 34639558  | 14.33%  | 0.450% |
| 168 | 11.349 | 11.330 | 11.392 | VV | 2585670    | 66813251  | 27.65%  | 0.869% |
| 169 | 11.415 | 11.392 | 11.442 | VV | 2717242    | 51508702  | 21.31%  | 0.670% |
| 170 | 11.460 | 11.442 | 11.475 | VV | 1406537    | 24850793  | 10.28%  | 0.323% |
| 171 | 11.508 | 11.475 | 11.534 | VV | 3193509    | 72791494  | 30.12%  | 0.946% |
| 172 | 11.555 | 11.534 | 11.564 | VV | 2287253    | 35240934  | 14.58%  | 0.458% |
| 173 | 11.578 | 11.564 | 11.596 | VV | 2265706    | 41170460  | 17.04%  | 0.535% |
| 174 | 11.605 | 11.596 | 11.627 | VV | 1962926    | 29941634  | 12.39%  | 0.389% |
| 175 | 11.674 | 11.627 | 11.712 | VV | 3295132    | 108964531 | 45.09%  | 1.417% |
| 176 | 11.771 | 11.712 | 11.788 | VV | 5200386    | 131901699 | 54.58%  | 1.715% |
| 177 | 11.806 | 11.788 | 11.829 | VV | 2907642    | 50889063  | 21.06%  | 0.662% |
| 178 | 11.876 | 11.829 | 11.886 | VV | 3132584    | 72894036  | 30.16%  | 0.948% |
| 179 | 11.898 | 11.886 | 11.912 | VV | 3343876    | 42975641  | 17.78%  | 0.559% |
| 180 | 11.935 | 11.912 | 11.955 | VV | 4057958    | 70336678  | 29.10%  | 0.914% |
| 181 | 11.968 | 11.955 | 11.992 | VV | 1438576    | 27902997  | 11.55%  | 0.363% |
| 182 | 12.024 | 11.992 | 12.092 | VV | 3671134    | 94685482  | 39.18%  | 1.231% |
| 183 | 12.124 | 12.092 | 12.141 | VV | 1128036    | 28504453  | 11.79%  | 0.371% |
| 184 | 12.181 | 12.141 | 12.237 | VV | 4158399    | 105819465 | 43.79%  | 1.376% |
| 185 | 12.249 | 12.237 | 12.275 | VV | 1068061    | 21093709  | 8.73%   | 0.274% |
| 186 | 12.295 | 12.275 | 12.316 | VV | 809605     | 18352165  | 7.59%   | 0.239% |
| 187 | 12.349 | 12.316 | 12.371 | VV | 1063754    | 27379336  | 11.33%  | 0.356% |
| 188 | 12.452 | 12.371 | 12.488 | VV | 8301231    | 241674715 | 100.00% | 3.142% |
| 189 | 12.500 | 12.488 | 12.510 | VV | 1385123    | 16784838  | 6.95%   | 0.218% |
| 190 | 12.525 | 12.510 | 12.542 | VV | 1476057    | 25285798  | 10.46%  | 0.329% |
| 191 | 12.565 | 12.542 | 12.606 | VV | 1849752    | 48416094  | 20.03%  | 0.629% |
| 192 | 12.634 | 12.606 | 12.674 | VV | 1378458    | 47833872  | 19.79%  | 0.622% |
| 193 | 12.700 | 12.674 | 12.727 | VV | 1214107    | 32506759  | 13.45%  | 0.423% |
| 194 | 12.769 | 12.727 | 12.785 | VV | 1710245    | 47724608  | 19.75%  | 0.620% |

|     |        |        |        |    | rteres.txt |           |        |        |
|-----|--------|--------|--------|----|------------|-----------|--------|--------|
| 195 | 12.800 | 12.785 | 12.837 | VV | 1636618    | 42884522  | 17.74% | 0.558% |
| 196 | 12.864 | 12.837 | 12.937 | VV | 1938399    | 85131404  | 35.23% | 1.107% |
| 197 | 12.987 | 12.937 | 13.005 | VV | 1113460    | 40624261  | 16.81% | 0.528% |
| 198 | 13.034 | 13.005 | 13.096 | VV | 1847655    | 65443736  | 27.08% | 0.851% |
| 199 | 13.121 | 13.096 | 13.141 | VV | 1144432    | 27908342  | 11.55% | 0.363% |
| 200 | 13.155 | 13.141 | 13.170 | VV | 1103543    | 18184807  | 7.52%  | 0.236% |
| 201 | 13.185 | 13.170 | 13.209 | VV | 1065922    | 22997841  | 9.52%  | 0.299% |
| 202 | 13.242 | 13.209 | 13.257 | VV | 1012255    | 27780295  | 11.49% | 0.361% |
| 203 | 13.276 | 13.257 | 13.294 | VV | 1044174    | 21724276  | 8.99%  | 0.282% |
| 204 | 13.319 | 13.294 | 13.344 | VV | 1149153    | 30848506  | 12.76% | 0.401% |
| 205 | 13.377 | 13.344 | 13.417 | VV | 1522443    | 54036864  | 22.36% | 0.703% |
| 206 | 13.433 | 13.417 | 13.454 | VV | 1255954    | 25469843  | 10.54% | 0.331% |
| 207 | 13.463 | 13.454 | 13.480 | VV | 1092728    | 16839268  | 6.97%  | 0.219% |
| 208 | 13.506 | 13.480 | 13.529 | VV | 1228601    | 32375226  | 13.40% | 0.421% |
| 209 | 13.544 | 13.529 | 13.559 | VV | 1225791    | 20890793  | 8.64%  | 0.272% |
| 210 | 13.569 | 13.559 | 13.584 | VV | 1111777    | 16355581  | 6.77%  | 0.213% |
| 211 | 13.614 | 13.584 | 13.644 | VV | 1514497    | 48519040  | 20.08% | 0.631% |
| 212 | 13.681 | 13.644 | 13.699 | VV | 1437952    | 44121410  | 18.26% | 0.574% |
| 213 | 13.729 | 13.699 | 13.748 | VV | 1509583    | 41644463  | 17.23% | 0.541% |
| 214 | 13.774 | 13.748 | 13.796 | VV | 1650177    | 43318937  | 17.92% | 0.563% |
| 215 | 13.819 | 13.796 | 13.854 | VV | 1589735    | 50437354  | 20.87% | 0.656% |
| 216 | 13.878 | 13.854 | 13.906 | VV | 1675556    | 48036817  | 19.88% | 0.625% |
| 217 | 13.926 | 13.906 | 13.958 | VV | 1780323    | 50408959  | 20.86% | 0.655% |
| 218 | 13.981 | 13.958 | 14.002 | VV | 1802603    | 43523257  | 18.01% | 0.566% |
| 219 | 14.039 | 14.002 | 14.084 | VV | 2009681    | 86865719  | 35.94% | 1.129% |
| 220 | 14.108 | 14.084 | 14.144 | VV | 1774111    | 58847920  | 24.35% | 0.765% |
| 221 | 14.210 | 14.144 | 14.237 | VV | 2529098    | 114425530 | 47.35% | 1.488% |
| 222 | 14.258 | 14.237 | 14.280 | VV | 2410542    | 57265682  | 23.70% | 0.745% |
| 223 | 14.310 | 14.280 | 14.336 | VV | 2295106    | 71077318  | 29.41% | 0.924% |
| 224 | 14.355 | 14.336 | 14.396 | VV | 2402522    | 73951675  | 30.60% | 0.961% |
| 225 | 14.430 | 14.396 | 14.454 | VV | 2347426    | 74077007  | 30.65% | 0.963% |
| 226 | 14.489 | 14.454 | 14.516 | VV | 2711763    | 89951276  | 37.22% | 1.169% |
| 227 | 14.547 | 14.516 | 14.574 | VV | 2770143    | 86845879  | 35.94% | 1.129% |
| 228 | 14.578 | 14.574 | 14.611 | VV | 2458016    | 50350160  | 20.83% | 0.655% |
| 229 | 14.642 | 14.611 | 14.671 | VV | 2914592    | 90815932  | 37.58% | 1.181% |
| 230 | 14.698 | 14.671 | 14.716 | VV | 3173687    | 76959133  | 31.84% | 1.001% |
| 231 | 14.743 | 14.716 | 14.764 | VV | 3458025    | 90357569  | 37.39% | 1.175% |
| 232 | 14.770 | 14.764 | 14.809 | VV | 3231318    | 76210806  | 31.53% | 0.991% |
| 233 | 14.827 | 14.809 | 14.863 | VV | 2688245    | 82720275  | 34.23% | 1.075% |
| 234 | 14.882 | 14.863 | 14.912 | VV | 2781621    | 74091991  | 30.66% | 0.963% |
| 235 | 14.990 | 14.912 | 15.022 | VV | 3543526    | 187008215 | 77.38% | 2.431% |
| 236 | 15.060 | 15.022 | 15.124 | VV | 3203506    | 168330786 | 69.65% | 2.188% |
| 237 | 15.142 | 15.124 | 15.163 | VV | 2766068    | 59671677  | 24.69% | 0.776% |
| 238 | 15.207 | 15.163 | 15.226 | VV | 3164901    | 105269791 | 43.56% | 1.369% |
| 239 | 15.250 | 15.226 | 15.302 | VV | 3857209    | 141767892 | 58.66% | 1.843% |
| 240 | 15.322 | 15.302 | 15.356 | VV | 2896434    | 77770091  | 32.18% | 1.011% |
| 241 | 15.390 | 15.356 | 15.411 | VV | 2494415    | 73531327  | 30.43% | 0.956% |
| 242 | 15.438 | 15.411 | 15.481 | VV | 3376548    | 121321983 | 50.20% | 1.577% |
| 243 | 15.505 | 15.481 | 15.532 | VV | 3588058    | 97987437  | 40.55% | 1.274% |
| 244 | 15.550 | 15.532 | 15.564 | VV | 2799469    | 49634817  | 20.54% | 0.645% |
| 245 | 15.584 | 15.564 | 15.619 | VV | 2894812    | 83643471  | 34.61% | 1.087% |
| 246 | 15.626 | 15.619 | 15.644 | VV | 2341755    | 33550304  | 13.88% | 0.436% |

| rteres.txt |        |        |        |    |         |           |        |        |
|------------|--------|--------|--------|----|---------|-----------|--------|--------|
| 247        | 15.687 | 15.644 | 15.704 | VV | 2910836 | 88462837  | 36.60% | 1.150% |
| 248        | 15.748 | 15.704 | 15.782 | VV | 3178940 | 128306335 | 53.09% | 1.668% |
| 249        | 15.799 | 15.782 | 15.822 | VV | 2580273 | 51613042  | 21.36% | 0.671% |
| 250        | 15.868 | 15.822 | 15.875 | VV | 1965022 | 56584989  | 23.41% | 0.736% |
| 251        | 15.927 | 15.875 | 15.951 | VV | 2553603 | 101090052 | 41.83% | 1.314% |
| 252        | 15.986 | 15.951 | 16.027 | VV | 3122969 | 117281964 | 48.53% | 1.525% |
| 253        | 16.051 | 16.027 | 16.072 | VV | 2138520 | 52607019  | 21.77% | 0.684% |
| 254        | 16.085 | 16.072 | 16.122 | VV | 1990328 | 53819181  | 22.27% | 0.700% |
| 255        | 16.154 | 16.122 | 16.187 | VV | 2302570 | 78840989  | 32.62% | 1.025% |
| 256        | 16.218 | 16.187 | 16.247 | VV | 2435503 | 76572551  | 31.68% | 0.996% |
| 257        | 16.257 | 16.247 | 16.292 | VV | 2214715 | 47212225  | 19.54% | 0.614% |
| 258        | 16.310 | 16.292 | 16.322 | VV | 1624148 | 27265064  | 11.28% | 0.354% |
| 259        | 16.331 | 16.322 | 16.350 | VV | 1623690 | 26292957  | 10.88% | 0.342% |
| 260        | 16.370 | 16.350 | 16.381 | VV | 1836922 | 30791038  | 12.74% | 0.400% |
| 261        | 16.390 | 16.381 | 16.401 | VV | 1776691 | 21432595  | 8.87%  | 0.279% |
| 262        | 16.426 | 16.401 | 16.439 | VV | 2197596 | 46383189  | 19.19% | 0.603% |
| 263        | 16.454 | 16.439 | 16.477 | VV | 2380922 | 42960996  | 17.78% | 0.559% |
| 264        | 16.505 | 16.477 | 16.537 | VV | 1732476 | 52436759  | 21.70% | 0.682% |
| 265        | 16.542 | 16.537 | 16.559 | VV | 1362529 | 16742642  | 6.93%  | 0.218% |
| 266        | 16.604 | 16.559 | 16.635 | VV | 1943373 | 67073880  | 27.75% | 0.872% |
| 267        | 16.659 | 16.635 | 16.677 | VV | 1888416 | 37769750  | 15.63% | 0.491% |
| 268        | 16.688 | 16.677 | 16.724 | VV | 1539939 | 35825488  | 14.82% | 0.466% |
| 269        | 16.734 | 16.724 | 16.749 | VV | 1106188 | 15734003  | 6.51%  | 0.205% |
| 270        | 16.761 | 16.749 | 16.782 | VV | 1097828 | 20192593  | 8.36%  | 0.263% |
| 271        | 16.813 | 16.782 | 16.829 | VV | 1215572 | 31032750  | 12.84% | 0.403% |
| 272        | 16.858 | 16.829 | 16.882 | VV | 1367699 | 37575181  | 15.55% | 0.489% |
| 273        | 16.897 | 16.882 | 16.917 | VV | 1309501 | 21879932  | 9.05%  | 0.284% |
| 274        | 16.936 | 16.917 | 16.962 | VV | 1068210 | 24710821  | 10.22% | 0.321% |
| 275        | 16.985 | 16.962 | 17.019 | VV | 828309  | 26243190  | 10.86% | 0.341% |
| 276        | 17.033 | 17.019 | 17.056 | VV | 915167  | 17198054  | 7.12%  | 0.224% |
| 277        | 17.090 | 17.056 | 17.160 | VV | 960869  | 42834659  | 17.72% | 0.557% |
| 278        | 17.173 | 17.160 | 17.190 | VV | 510489  | 8702076   | 3.60%  | 0.113% |
| 279        | 17.230 | 17.190 | 17.252 | VV | 710691  | 22667475  | 9.38%  | 0.295% |
| 280        | 17.272 | 17.252 | 17.301 | VV | 720185  | 16947730  | 7.01%  | 0.220% |
| 281        | 17.326 | 17.301 | 17.344 | VV | 717760  | 15000267  | 6.21%  | 0.195% |
| 282        | 17.353 | 17.344 | 17.387 | VV | 561233  | 11966995  | 4.95%  | 0.156% |
| 283        | 17.409 | 17.387 | 17.429 | VV | 398758  | 9197065   | 3.81%  | 0.120% |
| 284        | 17.453 | 17.429 | 17.481 | VV | 442933  | 11824358  | 4.89%  | 0.154% |
| 285        | 17.511 | 17.481 | 17.528 | VV | 587567  | 12679095  | 5.25%  | 0.165% |
| 286        | 17.548 | 17.528 | 17.599 | VV | 616425  | 17148408  | 7.10%  | 0.223% |
| 287        | 17.644 | 17.599 | 17.670 | VV | 312811  | 12274018  | 5.08%  | 0.160% |
| 288        | 17.686 | 17.670 | 17.717 | VV | 310019  | 7827514   | 3.24%  | 0.102% |
| 289        | 17.743 | 17.717 | 17.822 | VV | 442814  | 17896517  | 7.41%  | 0.233% |
| 290        | 17.832 | 17.822 | 17.847 | VV | 221564  | 3270912   | 1.35%  | 0.043% |
| 291        | 17.858 | 17.847 | 17.888 | VV | 225397  | 5388539   | 2.23%  | 0.070% |
| 292        | 17.931 | 17.888 | 17.947 | VV | 642099  | 14264563  | 5.90%  | 0.185% |
| 293        | 17.967 | 17.947 | 18.019 | VV | 634369  | 14405333  | 5.96%  | 0.187% |
| 294        | 18.042 | 18.019 | 18.079 | VV | 198608  | 6705316   | 2.77%  | 0.087% |
| 295        | 18.086 | 18.079 | 18.114 | VV | 184451  | 3718201   | 1.54%  | 0.048% |
| 296        | 18.182 | 18.114 | 18.234 | VV | 535573  | 17790212  | 7.36%  | 0.231% |
| 297        | 18.242 | 18.234 | 18.274 | VV | 161693  | 3847263   | 1.59%  | 0.050% |
| 298        | 18.316 | 18.274 | 18.337 | VV | 198338  | 6409490   | 2.65%  | 0.083% |
| 299        | 18.367 | 18.337 | 18.406 | VV | 500282  | 11102135  | 4.59%  | 0.144% |

| rteres.txt |        |        |        |    |        |          |       |        |
|------------|--------|--------|--------|----|--------|----------|-------|--------|
| 300        | 18.415 | 18.406 | 18.466 | VV | 152935 | 5249717  | 2.17% | 0.068% |
| 301        | 18.482 | 18.466 | 18.511 | VV | 150134 | 3884693  | 1.61% | 0.051% |
| 302        | 18.523 | 18.511 | 18.554 | VV | 145975 | 3542428  | 1.47% | 0.046% |
| 303        | 18.578 | 18.554 | 18.629 | VV | 144108 | 6141161  | 2.54% | 0.080% |
| 304        | 18.674 | 18.629 | 18.701 | VV | 139496 | 5713427  | 2.36% | 0.074% |
| 305        | 18.741 | 18.701 | 18.795 | VV | 164718 | 8120608  | 3.36% | 0.106% |
| 306        | 18.818 | 18.795 | 18.862 | VV | 141314 | 5390355  | 2.23% | 0.070% |
| 307        | 18.908 | 18.862 | 18.929 | VV | 134407 | 5136558  | 2.13% | 0.067% |
| 308        | 18.952 | 18.929 | 18.973 | VV | 134681 | 3426624  | 1.42% | 0.045% |
| 309        | 18.992 | 18.973 | 19.001 | VV | 128379 | 2109511  | 0.87% | 0.027% |
| 310        | 19.013 | 19.001 | 19.032 | VV | 132735 | 2355842  | 0.97% | 0.031% |
| 311        | 19.061 | 19.032 | 19.080 | VV | 136603 | 3771685  | 1.56% | 0.049% |
| 312        | 19.145 | 19.080 | 19.176 | VV | 397675 | 11866144 | 4.91% | 0.154% |
| 313        | 19.187 | 19.176 | 19.206 | VV | 130821 | 2243553  | 0.93% | 0.029% |
| 314        | 19.216 | 19.206 | 19.239 | VV | 134402 | 2578852  | 1.07% | 0.034% |
| 315        | 19.283 | 19.239 | 19.307 | VV | 170145 | 5814027  | 2.41% | 0.076% |
| 316        | 19.349 | 19.307 | 19.376 | VV | 141598 | 5503536  | 2.28% | 0.072% |
| 317        | 19.384 | 19.376 | 19.406 | VV | 130309 | 2277343  | 0.94% | 0.030% |
| 318        | 19.436 | 19.406 | 19.460 | VV | 131766 | 4139956  | 1.71% | 0.054% |
| 319        | 19.467 | 19.460 | 19.474 | VV | 124101 | 1067590  | 0.44% | 0.014% |
| 320        | 19.526 | 19.474 | 19.560 | VV | 132780 | 6475042  | 2.68% | 0.084% |
| 321        | 19.582 | 19.560 | 19.604 | VV | 128720 | 3250664  | 1.35% | 0.042% |
| 322        | 19.653 | 19.604 | 19.671 | VV | 150660 | 5348484  | 2.21% | 0.070% |
| 323        | 19.711 | 19.671 | 19.756 | VV | 139189 | 6668740  | 2.76% | 0.087% |
| 324        | 19.767 | 19.756 | 19.796 | VV | 128023 | 2908257  | 1.20% | 0.038% |
| 325        | 19.806 | 19.796 | 19.831 | VV | 123717 | 2470260  | 1.02% | 0.032% |
| 326        | 19.881 | 19.831 | 19.925 | VV | 391423 | 10650140 | 4.41% | 0.138% |
| 327        | 19.931 | 19.925 | 19.939 | VV | 125414 | 1049226  | 0.43% | 0.014% |
| 328        | 19.951 | 19.939 | 19.977 | VV | 127368 | 2808358  | 1.16% | 0.037% |
| 329        | 19.992 | 19.977 | 20.011 | VV | 133763 | 2552642  | 1.06% | 0.033% |
| 330        | 20.033 | 20.011 | 20.047 | VV | 137640 | 2898491  | 1.20% | 0.038% |
| 331        | 20.056 | 20.047 | 20.063 | VV | 132458 | 1205895  | 0.50% | 0.016% |
| 332        | 20.069 | 20.063 | 20.078 | VV | 132611 | 1161572  | 0.48% | 0.015% |
| 333        | 20.099 | 20.078 | 20.166 | VV | 134301 | 6373794  | 2.64% | 0.083% |
| 334        | 20.187 | 20.166 | 20.196 | VV | 110059 | 1942430  | 0.80% | 0.025% |
| 335        | 20.204 | 20.196 | 20.219 | VV | 108662 | 1499167  | 0.62% | 0.019% |
| 336        | 20.233 | 20.219 | 20.254 | VV | 114920 | 2290135  | 0.95% | 0.030% |
| 337        | 20.267 | 20.254 | 20.279 | VV | 106077 | 1555520  | 0.64% | 0.020% |
| 338        | 20.296 | 20.279 | 20.326 | VV | 112416 | 2961360  | 1.23% | 0.039% |
| 339        | 20.340 | 20.326 | 20.359 | VV | 106217 | 2053002  | 0.85% | 0.027% |
| 340        | 20.388 | 20.359 | 20.502 | VV | 109902 | 7884205  | 3.26% | 0.103% |
| 341        | 20.541 | 20.502 | 20.554 | VV | 103222 | 2697534  | 1.12% | 0.035% |
| 342        | 20.585 | 20.554 | 20.664 | VV | 274739 | 8117530  | 3.36% | 0.106% |
| 343        | 20.675 | 20.664 | 20.690 | VV | 57849  | 852120   | 0.35% | 0.011% |
| 344        | 20.699 | 20.690 | 20.732 | VV | 55126  | 1329488  | 0.55% | 0.017% |
| 345        | 20.739 | 20.732 | 20.771 | VV | 51347  | 1136080  | 0.47% | 0.015% |
| 346        | 20.779 | 20.771 | 20.865 | VV | 44359  | 2235819  | 0.93% | 0.029% |
| 347        | 20.895 | 20.865 | 20.904 | VV | 35264  | 792185   | 0.33% | 0.010% |
| 348        | 20.940 | 20.904 | 20.976 | VV | 51897  | 1712023  | 0.71% | 0.022% |
| 349        | 21.010 | 20.976 | 21.071 | VV | 34033  | 1697667  | 0.70% | 0.022% |
| 350        | 21.079 | 21.071 | 21.149 | VV | 25945  | 996640   | 0.41% | 0.013% |
| 351        | 21.191 | 21.149 | 21.247 | VV | 21412  | 1069933  | 0.44% | 0.014% |

|     |        |        |        |    |            |         |       |        |  |
|-----|--------|--------|--------|----|------------|---------|-------|--------|--|
|     |        |        |        |    | rteres.txt |         |       |        |  |
| 352 | 21.285 | 21.247 | 21.316 | VV | 22298      | 722281  | 0.30% | 0.009% |  |
| 353 | 21.322 | 21.316 | 21.352 | VV | 14481      | 273375  | 0.11% | 0.004% |  |
| 354 | 21.419 | 21.352 | 21.516 | VV | 179180     | 4723850 | 1.95% | 0.061% |  |
| 355 | 21.524 | 21.516 | 21.537 | VV | 3088       | 23126   | 0.01% | 0.000% |  |

Sum of corrected areas: 7691827339

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