

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_C\Data\FC120318AL\  
 Data File : FC037949.D  
 Signal(s) : FID1A.CH  
 Acq On : 03 Dec 2018 12:00  
 Sample : J5762-07MS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_C\Method\Alaphatic EPH 111318.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         | 1.562       | 1.514        | 1.611      | BV       | 1518           | 17958        | 0.00%          | 0.000%        |
| 2         | 1.633       | 1.611        | 1.651      | PV       | 589            | 8325         | 0.00%          | 0.000%        |
| 3         | 1.673       | 1.651        | 1.701      | VV       | 1029           | 16737        | 0.00%          | 0.000%        |
| 4         | 1.893       | 1.701        | 1.949      | VV       | 113277076      | 6762777658   | 100.00%        | 95.422%       |
| 5         | 1.961       | 1.949        | 1.979      | VV       | 24666          | 278167       | 0.00%          | 0.004%        |
| 6         | 1.987       | 1.979        | 1.997      | VV       | 14397          | 120887       | 0.00%          | 0.002%        |
| 7         | 2.006       | 1.997        | 2.024      | VV       | 14451          | 142646       | 0.00%          | 0.002%        |
| 8         | 2.033       | 2.024        | 2.041      | VV       | 8867           | 71127        | 0.00%          | 0.001%        |
| 9         | 2.057       | 2.041        | 2.084      | VV       | 22556          | 281612       | 0.00%          | 0.004%        |
| 10        | 2.096       | 2.084        | 2.129      | VV       | 19396          | 172081       | 0.00%          | 0.002%        |
| 11        | 2.154       | 2.129        | 2.193      | VV       | 38869          | 335888       | 0.00%          | 0.005%        |
| 12        | 2.212       | 2.193        | 2.229      | VV       | 8664           | 80948        | 0.00%          | 0.001%        |
| 13        | 2.237       | 2.229        | 2.257      | VV       | 2085           | 27489        | 0.00%          | 0.000%        |
| 14        | 2.267       | 2.257        | 2.279      | VV       | 1473           | 17113        | 0.00%          | 0.000%        |
| 15        | 2.300       | 2.279        | 2.339      | VV       | 22579          | 366339       | 0.01%          | 0.005%        |
| 16        | 2.355       | 2.339        | 2.386      | VV       | 22344          | 202131       | 0.00%          | 0.003%        |
| 17        | 2.404       | 2.386        | 2.444      | VV       | 44489          | 367871       | 0.01%          | 0.005%        |
| 18        | 2.454       | 2.444        | 2.466      | VV       | 1572           | 16516        | 0.00%          | 0.000%        |
| 19        | 2.483       | 2.466        | 2.508      | VV       | 1613           | 30350        | 0.00%          | 0.000%        |
| 20        | 2.519       | 2.508        | 2.556      | VV       | 1023           | 24503        | 0.00%          | 0.000%        |
| 21        | 2.578       | 2.556        | 2.646      | VV       | 172880         | 1392605      | 0.02%          | 0.020%        |
| 22        | 2.665       | 2.646        | 2.829      | VV       | 115616         | 1601357      | 0.02%          | 0.023%        |
| 23        | 2.841       | 2.829        | 2.865      | VV       | 1165           | 21238        | 0.00%          | 0.000%        |
| 24        | 2.885       | 2.865        | 2.921      | VV       | 6959           | 79884        | 0.00%          | 0.001%        |
| 25        | 2.935       | 2.921        | 2.994      | VV       | 1329           | 42326        | 0.00%          | 0.001%        |
| 26        | 3.020       | 2.994        | 3.071      | VV       | 753            | 27133        | 0.00%          | 0.000%        |
| 27        | 3.080       | 3.071        | 3.102      | VV       | 531            | 8889         | 0.00%          | 0.000%        |
| 28        | 3.131       | 3.102        | 3.237      | VV       | 362956         | 3094162      | 0.05%          | 0.044%        |
| 29        | 3.246       | 3.237        | 3.292      | VV       | 1074           | 24174        | 0.00%          | 0.000%        |
| 30        | 3.304       | 3.292        | 3.369      | VV       | 624            | 22831        | 0.00%          | 0.000%        |
| 31        | 3.391       | 3.369        | 3.419      | VV       | 582            | 13863        | 0.00%          | 0.000%        |
| 32        | 3.436       | 3.419        | 3.453      | VV       | 675            | 10060        | 0.00%          | 0.000%        |
| 33        | 3.461       | 3.453        | 3.474      | VV       | 430            | 5108         | 0.00%          | 0.000%        |
| 34        | 3.500       | 3.474        | 3.539      | VV       | 610            | 18640        | 0.00%          | 0.000%        |
| 35        | 3.548       | 3.539        | 3.601      | VV       | 543            | 14336        | 0.00%          | 0.000%        |
| 36        | 3.617       | 3.601        | 3.643      | VV       | 417            | 8241         | 0.00%          | 0.000%        |

| rteres.txt |       |       |       |    |        |         |       |        |
|------------|-------|-------|-------|----|--------|---------|-------|--------|
| 37         | 3.659 | 3.643 | 3.687 | VV | 516    | 8541    | 0.00% | 0.000% |
| 38         | 3.703 | 3.687 | 3.752 | VV | 466    | 12056   | 0.00% | 0.000% |
| 39         | 3.792 | 3.752 | 3.804 | VV | 1244   | 16680   | 0.00% | 0.000% |
| 40         | 3.822 | 3.804 | 3.871 | VV | 1388   | 36433   | 0.00% | 0.001% |
| 41         | 3.883 | 3.871 | 3.911 | VV | 689    | 13323   | 0.00% | 0.000% |
| 42         | 3.962 | 3.911 | 4.082 | VV | 3837   | 96251   | 0.00% | 0.001% |
| 43         | 4.096 | 4.082 | 4.126 | VV | 365    | 7379    | 0.00% | 0.000% |
| 44         | 4.136 | 4.126 | 4.159 | VV | 402    | 5607    | 0.00% | 0.000% |
| 45         | 4.189 | 4.159 | 4.206 | VV | 367772 | 3265234 | 0.05% | 0.046% |
| 46         | 4.222 | 4.206 | 4.276 | VV | 398283 | 3596168 | 0.05% | 0.051% |
| 47         | 4.288 | 4.276 | 4.310 | VV | 3529   | 48169   | 0.00% | 0.001% |
| 48         | 4.329 | 4.310 | 4.364 | VV | 5196   | 72462   | 0.00% | 0.001% |
| 49         | 4.381 | 4.364 | 4.389 | VV | 1087   | 13732   | 0.00% | 0.000% |
| 50         | 4.397 | 4.389 | 4.426 | VV | 957    | 17806   | 0.00% | 0.000% |
| 51         | 4.440 | 4.426 | 4.453 | VV | 1074   | 14008   | 0.00% | 0.000% |
| 52         | 4.461 | 4.453 | 4.481 | VV | 723    | 10203   | 0.00% | 0.000% |
| 53         | 4.491 | 4.481 | 4.526 | VV | 621    | 13101   | 0.00% | 0.000% |
| 54         | 4.561 | 4.526 | 4.571 | VV | 699    | 13990   | 0.00% | 0.000% |
| 55         | 4.582 | 4.571 | 4.593 | VV | 704    | 8271    | 0.00% | 0.000% |
| 56         | 4.600 | 4.593 | 4.612 | VV | 695    | 6618    | 0.00% | 0.000% |
| 57         | 4.645 | 4.612 | 4.679 | VV | 958    | 24984   | 0.00% | 0.000% |
| 58         | 4.704 | 4.679 | 4.766 | VV | 519    | 18067   | 0.00% | 0.000% |
| 59         | 4.797 | 4.766 | 4.809 | VV | 544    | 11685   | 0.00% | 0.000% |
| 60         | 4.818 | 4.809 | 4.849 | VV | 574    | 9088    | 0.00% | 0.000% |
| 61         | 4.868 | 4.849 | 4.877 | VV | 521    | 6506    | 0.00% | 0.000% |
| 62         | 4.892 | 4.877 | 4.912 | VV | 676    | 10328   | 0.00% | 0.000% |
| 63         | 4.936 | 4.912 | 4.954 | VV | 1362   | 21800   | 0.00% | 0.000% |
| 64         | 4.965 | 4.954 | 4.997 | VV | 935    | 17205   | 0.00% | 0.000% |
| 65         | 5.012 | 4.997 | 5.029 | VV | 476    | 7676    | 0.00% | 0.000% |
| 66         | 5.046 | 5.029 | 5.081 | VV | 1024   | 21889   | 0.00% | 0.000% |
| 67         | 5.096 | 5.081 | 5.121 | VV | 777    | 13620   | 0.00% | 0.000% |
| 68         | 5.127 | 5.121 | 5.146 | VV | 375    | 4334    | 0.00% | 0.000% |
| 69         | 5.161 | 5.146 | 5.201 | VV | 331    | 6145    | 0.00% | 0.000% |
| 70         | 5.220 | 5.201 | 5.251 | PV | 3696   | 49693   | 0.00% | 0.001% |
| 71         | 5.259 | 5.251 | 5.277 | VV | 593    | 6507    | 0.00% | 0.000% |
| 72         | 5.293 | 5.277 | 5.332 | VV | 1481   | 23921   | 0.00% | 0.000% |
| 73         | 5.337 | 5.332 | 5.351 | VV | 400    | 3711    | 0.00% | 0.000% |
| 74         | 5.389 | 5.351 | 5.421 | VV | 1264   | 25712   | 0.00% | 0.000% |
| 75         | 5.463 | 5.421 | 5.478 | VV | 513    | 13254   | 0.00% | 0.000% |
| 76         | 5.500 | 5.478 | 5.533 | VV | 893    | 18810   | 0.00% | 0.000% |
| 77         | 5.580 | 5.533 | 5.609 | VV | 837    | 20683   | 0.00% | 0.000% |
| 78         | 5.618 | 5.609 | 5.644 | VV | 450    | 6843    | 0.00% | 0.000% |
| 79         | 5.667 | 5.644 | 5.682 | PV | 603    | 7361    | 0.00% | 0.000% |
| 80         | 5.714 | 5.682 | 5.724 | VV | 1041   | 14268   | 0.00% | 0.000% |
| 81         | 5.750 | 5.724 | 5.835 | VV | 391632 | 3982139 | 0.06% | 0.056% |
| 82         | 5.848 | 5.835 | 5.875 | VV | 2632   | 51486   | 0.00% | 0.001% |
| 83         | 5.892 | 5.875 | 5.905 | VV | 2049   | 31769   | 0.00% | 0.000% |
| 84         | 5.923 | 5.905 | 5.959 | VV | 1941   | 46601   | 0.00% | 0.001% |
| 85         | 5.969 | 5.959 | 5.981 | VV | 1042   | 12805   | 0.00% | 0.000% |
| 86         | 5.990 | 5.981 | 6.012 | VV | 1064   | 18054   | 0.00% | 0.000% |
| 87         | 6.022 | 6.012 | 6.059 | VV | 907    | 23245   | 0.00% | 0.000% |
| 88         | 6.072 | 6.059 | 6.080 | VV | 981    | 11110   | 0.00% | 0.000% |
| 89         | 6.111 | 6.080 | 6.162 | VV | 1148   | 46891   | 0.00% | 0.001% |

| rteres.txt |       |       |       |    |        |         |       |        |
|------------|-------|-------|-------|----|--------|---------|-------|--------|
| 90         | 6.194 | 6.162 | 6.259 | VV | 378170 | 3650304 | 0.05% | 0.052% |
| 91         | 6.269 | 6.259 | 6.297 | VV | 1340   | 27583   | 0.00% | 0.000% |
| 92         | 6.309 | 6.297 | 6.322 | VV | 1288   | 17520   | 0.00% | 0.000% |
| 93         | 6.341 | 6.322 | 6.358 | VV | 2600   | 37874   | 0.00% | 0.001% |
| 94         | 6.370 | 6.358 | 6.397 | VV | 1853   | 28499   | 0.00% | 0.000% |
| 95         | 6.409 | 6.397 | 6.424 | VV | 667    | 9818    | 0.00% | 0.000% |
| 96         | 6.435 | 6.424 | 6.450 | VV | 929    | 11966   | 0.00% | 0.000% |
| 97         | 6.463 | 6.450 | 6.479 | VV | 926    | 12578   | 0.00% | 0.000% |
| 98         | 6.504 | 6.479 | 6.521 | VV | 1215   | 21596   | 0.00% | 0.000% |
| 99         | 6.539 | 6.521 | 6.555 | VV | 1382   | 21091   | 0.00% | 0.000% |
| 100        | 6.577 | 6.555 | 6.616 | VV | 1935   | 38880   | 0.00% | 0.001% |
| 101        | 6.636 | 6.616 | 6.647 | VV | 993    | 15222   | 0.00% | 0.000% |
| 102        | 6.670 | 6.647 | 6.679 | VV | 1114   | 17122   | 0.00% | 0.000% |
| 103        | 6.706 | 6.679 | 6.726 | VV | 3297   | 51256   | 0.00% | 0.001% |
| 104        | 6.743 | 6.726 | 6.766 | VV | 1634   | 27939   | 0.00% | 0.000% |
| 105        | 6.798 | 6.766 | 6.871 | VV | 405958 | 4172345 | 0.06% | 0.059% |
| 106        | 6.889 | 6.871 | 6.917 | VV | 5098   | 104752  | 0.00% | 0.001% |
| 107        | 6.932 | 6.917 | 6.967 | VV | 5043   | 92033   | 0.00% | 0.001% |
| 108        | 6.983 | 6.967 | 7.002 | VV | 2281   | 39643   | 0.00% | 0.001% |
| 109        | 7.012 | 7.002 | 7.044 | VV | 1846   | 45329   | 0.00% | 0.001% |
| 110        | 7.049 | 7.044 | 7.059 | VV | 1807   | 15337   | 0.00% | 0.000% |
| 111        | 7.080 | 7.059 | 7.094 | VV | 3246   | 51461   | 0.00% | 0.001% |
| 112        | 7.109 | 7.094 | 7.136 | VV | 5846   | 77867   | 0.00% | 0.001% |
| 113        | 7.157 | 7.136 | 7.219 | VV | 1574   | 64166   | 0.00% | 0.001% |
| 114        | 7.277 | 7.219 | 7.309 | VV | 2779   | 82476   | 0.00% | 0.001% |
| 115        | 7.324 | 7.309 | 7.352 | VV | 1378   | 27121   | 0.00% | 0.000% |
| 116        | 7.409 | 7.352 | 7.494 | VV | 265666 | 3016043 | 0.04% | 0.043% |
| 117        | 7.523 | 7.494 | 7.550 | VV | 5421   | 134540  | 0.00% | 0.002% |
| 118        | 7.564 | 7.550 | 7.612 | VV | 2498   | 71062   | 0.00% | 0.001% |
| 119        | 7.626 | 7.612 | 7.641 | VV | 1800   | 27641   | 0.00% | 0.000% |
| 120        | 7.672 | 7.641 | 7.685 | VV | 2844   | 55119   | 0.00% | 0.001% |
| 121        | 7.699 | 7.685 | 7.714 | VV | 3248   | 45123   | 0.00% | 0.001% |
| 122        | 7.725 | 7.714 | 7.747 | VV | 2425   | 34711   | 0.00% | 0.000% |
| 123        | 7.796 | 7.747 | 7.820 | VV | 4587   | 100504  | 0.00% | 0.001% |
| 124        | 7.839 | 7.820 | 7.859 | VV | 2401   | 41471   | 0.00% | 0.001% |
| 125        | 7.886 | 7.859 | 7.897 | VV | 3839   | 59763   | 0.00% | 0.001% |
| 126        | 7.914 | 7.897 | 7.949 | VV | 13489  | 222125  | 0.00% | 0.003% |
| 127        | 7.977 | 7.949 | 8.012 | VV | 372988 | 3899848 | 0.06% | 0.055% |
| 128        | 8.032 | 8.012 | 8.040 | VV | 7811   | 89298   | 0.00% | 0.001% |
| 129        | 8.065 | 8.040 | 8.104 | VV | 413309 | 4193620 | 0.06% | 0.059% |
| 130        | 8.116 | 8.104 | 8.169 | VV | 6985   | 152201  | 0.00% | 0.002% |
| 131        | 8.181 | 8.169 | 8.197 | VV | 2715   | 39933   | 0.00% | 0.001% |
| 132        | 8.208 | 8.197 | 8.234 | VV | 2440   | 44843   | 0.00% | 0.001% |
| 133        | 8.263 | 8.234 | 8.328 | VV | 177921 | 2073230 | 0.03% | 0.029% |
| 134        | 8.360 | 8.328 | 8.399 | VV | 422855 | 4425048 | 0.07% | 0.062% |
| 135        | 8.410 | 8.399 | 8.452 | VV | 6144   | 134134  | 0.00% | 0.002% |
| 136        | 8.473 | 8.452 | 8.489 | VV | 3910   | 70990   | 0.00% | 0.001% |
| 137        | 8.507 | 8.489 | 8.539 | VV | 5458   | 95248   | 0.00% | 0.001% |
| 138        | 8.559 | 8.539 | 8.569 | VV | 2267   | 37672   | 0.00% | 0.001% |
| 139        | 8.575 | 8.569 | 8.587 | VV | 2339   | 22708   | 0.00% | 0.000% |
| 140        | 8.603 | 8.587 | 8.624 | VV | 2756   | 49134   | 0.00% | 0.001% |
| 141        | 8.641 | 8.624 | 8.663 | VV | 3247   | 61038   | 0.00% | 0.001% |

|     |        |        |        |    | rteres.txt |         |       |        |
|-----|--------|--------|--------|----|------------|---------|-------|--------|
| 142 | 8.700  | 8.663  | 8.717  | VV | 2435       | 70382   | 0.00% | 0.001% |
| 143 | 8.735  | 8.717  | 8.748  | VV | 2097       | 38019   | 0.00% | 0.001% |
| 144 | 8.791  | 8.748  | 8.829  | VV | 7349       | 172237  | 0.00% | 0.002% |
| 145 | 8.846  | 8.829  | 8.896  | VV | 2893       | 79018   | 0.00% | 0.001% |
| 146 | 8.924  | 8.896  | 8.941  | VV | 2597       | 51155   | 0.00% | 0.001% |
| 147 | 8.978  | 8.941  | 9.019  | VV | 5791       | 139789  | 0.00% | 0.002% |
| 148 | 9.059  | 9.019  | 9.099  | VV | 2337       | 76006   | 0.00% | 0.001% |
| 149 | 9.138  | 9.099  | 9.199  | VV | 387833     | 4288925 | 0.06% | 0.061% |
| 150 | 9.215  | 9.199  | 9.271  | VV | 4510       | 144484  | 0.00% | 0.002% |
| 151 | 9.292  | 9.271  | 9.309  | VV | 3417       | 59900   | 0.00% | 0.001% |
| 152 | 9.351  | 9.309  | 9.426  | VV | 5707       | 169592  | 0.00% | 0.002% |
| 153 | 9.468  | 9.426  | 9.477  | VV | 1919       | 42610   | 0.00% | 0.001% |
| 154 | 9.502  | 9.477  | 9.532  | VV | 4566       | 92010   | 0.00% | 0.001% |
| 155 | 9.566  | 9.532  | 9.631  | VV | 350619     | 3889859 | 0.06% | 0.055% |
| 156 | 9.641  | 9.631  | 9.692  | VV | 1587       | 44114   | 0.00% | 0.001% |
| 157 | 9.723  | 9.692  | 9.763  | VV | 1016       | 29321   | 0.00% | 0.000% |
| 158 | 9.790  | 9.763  | 9.807  | VV | 700        | 16284   | 0.00% | 0.000% |
| 159 | 9.826  | 9.807  | 9.864  | VV | 1335       | 28409   | 0.00% | 0.000% |
| 160 | 9.881  | 9.864  | 9.894  | VV | 937        | 13346   | 0.00% | 0.000% |
| 161 | 9.950  | 9.894  | 9.977  | VV | 3189       | 81214   | 0.00% | 0.001% |
| 162 | 10.000 | 9.977  | 10.074 | VV | 1677       | 78934   | 0.00% | 0.001% |
| 163 | 10.090 | 10.074 | 10.111 | VV | 1462       | 22400   | 0.00% | 0.000% |
| 164 | 10.133 | 10.111 | 10.167 | VV | 1111       | 24236   | 0.00% | 0.000% |
| 165 | 10.198 | 10.167 | 10.214 | VV | 1381       | 29902   | 0.00% | 0.000% |
| 166 | 10.224 | 10.214 | 10.244 | VV | 1465       | 20462   | 0.00% | 0.000% |
| 167 | 10.299 | 10.244 | 10.309 | VV | 6140       | 105768  | 0.00% | 0.001% |
| 168 | 10.321 | 10.309 | 10.335 | VV | 7282       | 88074   | 0.00% | 0.001% |
| 169 | 10.351 | 10.335 | 10.457 | VV | 7711       | 183810  | 0.00% | 0.003% |
| 170 | 10.528 | 10.457 | 10.576 | PV | 386093     | 4390556 | 0.06% | 0.062% |
| 171 | 10.603 | 10.576 | 10.692 | VV | 373670     | 4446739 | 0.07% | 0.063% |
| 172 | 10.707 | 10.692 | 10.734 | VV | 3402       | 69920   | 0.00% | 0.001% |
| 173 | 10.748 | 10.734 | 10.789 | VV | 2066       | 44207   | 0.00% | 0.001% |
| 174 | 10.801 | 10.789 | 10.826 | VV | 1317       | 21411   | 0.00% | 0.000% |
| 175 | 10.848 | 10.826 | 10.879 | VV | 1992       | 38926   | 0.00% | 0.001% |
| 176 | 10.882 | 10.879 | 10.898 | VV | 748        | 7474    | 0.00% | 0.000% |
| 177 | 10.923 | 10.898 | 10.966 | VV | 1317       | 32404   | 0.00% | 0.000% |
| 178 | 10.999 | 10.966 | 11.036 | VV | 342977     | 3826097 | 0.06% | 0.054% |
| 179 | 11.050 | 11.036 | 11.068 | VV | 2122       | 31382   | 0.00% | 0.000% |
| 180 | 11.087 | 11.068 | 11.116 | VV | 2174       | 35872   | 0.00% | 0.001% |
| 181 | 11.131 | 11.116 | 11.161 | VV | 443        | 6830    | 0.00% | 0.000% |
| 182 | 11.186 | 11.161 | 11.217 | VV | 1141       | 18736   | 0.00% | 0.000% |
| 183 | 11.236 | 11.217 | 11.254 | VV | 610        | 7597    | 0.00% | 0.000% |
| 184 | 11.295 | 11.254 | 11.373 | PV | 121321     | 1401221 | 0.02% | 0.020% |
| 185 | 11.388 | 11.373 | 11.406 | VV | 897        | 14624   | 0.00% | 0.000% |
| 186 | 11.442 | 11.406 | 11.462 | VV | 3029       | 54474   | 0.00% | 0.001% |
| 187 | 11.473 | 11.462 | 11.494 | VV | 1694       | 22625   | 0.00% | 0.000% |
| 188 | 11.517 | 11.494 | 11.530 | VV | 1771       | 29010   | 0.00% | 0.000% |
| 189 | 11.551 | 11.530 | 11.596 | VV | 9470       | 120645  | 0.00% | 0.002% |
| 190 | 11.615 | 11.596 | 11.628 | VV | 792        | 11395   | 0.00% | 0.000% |
| 191 | 11.663 | 11.628 | 11.683 | VV | 4321       | 57698   | 0.00% | 0.001% |
| 192 | 11.720 | 11.683 | 11.759 | VV | 733535     | 8067476 | 0.12% | 0.114% |
| 193 | 11.767 | 11.759 | 11.792 | VV | 1554       | 25531   | 0.00% | 0.000% |
| 194 | 11.801 | 11.792 | 11.839 | VV | 1016       | 18981   | 0.00% | 0.000% |

|     |        |        |        |    |            |          |       |        |
|-----|--------|--------|--------|----|------------|----------|-------|--------|
|     |        |        |        |    | rteres.txt |          |       |        |
| 195 | 11.861 | 11.839 | 11.912 | VV | 1082       | 27015    | 0.00% | 0.000% |
| 196 | 11.938 | 11.912 | 11.949 | PV | 404        | 6173     | 0.00% | 0.000% |
| 197 | 11.970 | 11.949 | 11.987 | VV | 1364       | 15573    | 0.00% | 0.000% |
| 198 | 12.000 | 11.987 | 12.022 | VV | 826        | 10933    | 0.00% | 0.000% |
| 199 | 12.042 | 12.022 | 12.060 | VV | 1664       | 21214    | 0.00% | 0.000% |
| 200 | 12.072 | 12.060 | 12.089 | VV | 701        | 8813     | 0.00% | 0.000% |
| 201 | 12.120 | 12.089 | 12.137 | VV | 2488       | 38581    | 0.00% | 0.001% |
| 202 | 12.147 | 12.137 | 12.161 | VV | 1670       | 18294    | 0.00% | 0.000% |
| 203 | 12.178 | 12.161 | 12.200 | VV | 3926       | 49973    | 0.00% | 0.001% |
| 204 | 12.221 | 12.200 | 12.246 | VV | 2102       | 31689    | 0.00% | 0.000% |
| 205 | 12.303 | 12.246 | 12.318 | VV | 332090     | 3886248  | 0.06% | 0.055% |
| 206 | 12.336 | 12.318 | 12.453 | VV | 412713     | 4747318  | 0.07% | 0.067% |
| 207 | 12.468 | 12.453 | 12.489 | VV | 574        | 7986     | 0.00% | 0.000% |
| 208 | 12.519 | 12.489 | 12.547 | PV | 3638       | 48603    | 0.00% | 0.001% |
| 209 | 12.576 | 12.547 | 12.599 | VV | 1141       | 15953    | 0.00% | 0.000% |
| 210 | 12.631 | 12.599 | 12.671 | VV | 374987     | 4562798  | 0.07% | 0.064% |
| 211 | 12.742 | 12.671 | 12.770 | VV | 1757827    | 28966529 | 0.43% | 0.409% |
| 212 | 12.797 | 12.770 | 12.866 | VV | 1373375    | 18356595 | 0.27% | 0.259% |
| 213 | 12.913 | 12.866 | 12.939 | VV | 319960     | 3929939  | 0.06% | 0.055% |
| 214 | 12.966 | 12.939 | 13.038 | VV | 339884     | 4042505  | 0.06% | 0.057% |
| 215 | 13.052 | 13.038 | 13.079 | VV | 3904       | 54221    | 0.00% | 0.001% |
| 216 | 13.103 | 13.079 | 13.142 | VV | 11845      | 172723   | 0.00% | 0.002% |
| 217 | 13.157 | 13.142 | 13.194 | VV | 1396       | 24932    | 0.00% | 0.000% |
| 218 | 13.257 | 13.194 | 13.312 | VV | 16660      | 289022   | 0.00% | 0.004% |
| 219 | 13.337 | 13.312 | 13.351 | VV | 2348       | 36374    | 0.00% | 0.001% |
| 220 | 13.366 | 13.351 | 13.382 | VV | 2322       | 37539    | 0.00% | 0.001% |
| 221 | 13.406 | 13.382 | 13.456 | VV | 2963       | 65872    | 0.00% | 0.001% |
| 222 | 13.494 | 13.456 | 13.521 | PV | 319875     | 3982289  | 0.06% | 0.056% |
| 223 | 13.534 | 13.521 | 13.566 | VV | 14475      | 227718   | 0.00% | 0.003% |
| 224 | 13.600 | 13.566 | 13.641 | VV | 14818      | 324438   | 0.00% | 0.005% |
| 225 | 13.658 | 13.641 | 13.670 | VV | 1837       | 24237    | 0.00% | 0.000% |
| 226 | 13.705 | 13.670 | 13.726 | VV | 4928       | 120668   | 0.00% | 0.002% |
| 227 | 13.772 | 13.726 | 13.782 | VV | 25185      | 471256   | 0.01% | 0.007% |
| 228 | 13.792 | 13.782 | 13.839 | VV | 24737      | 371484   | 0.01% | 0.005% |
| 229 | 13.870 | 13.839 | 13.892 | VV | 18698      | 396681   | 0.01% | 0.006% |
| 230 | 13.905 | 13.892 | 13.922 | VV | 12260      | 191584   | 0.00% | 0.003% |
| 231 | 13.962 | 13.922 | 14.017 | VV | 59166      | 1193362  | 0.02% | 0.017% |
| 232 | 14.042 | 14.017 | 14.086 | VV | 53209      | 868202   | 0.01% | 0.012% |
| 233 | 14.111 | 14.086 | 14.144 | VV | 55861      | 859362   | 0.01% | 0.012% |
| 234 | 14.166 | 14.144 | 14.199 | VV | 22134      | 381113   | 0.01% | 0.005% |
| 235 | 14.218 | 14.199 | 14.239 | VV | 19325      | 266967   | 0.00% | 0.004% |
| 236 | 14.263 | 14.239 | 14.335 | VV | 26410      | 456348   | 0.01% | 0.006% |
| 237 | 14.377 | 14.335 | 14.403 | VV | 2537       | 66909    | 0.00% | 0.001% |
| 238 | 14.423 | 14.403 | 14.446 | VV | 1683       | 33047    | 0.00% | 0.000% |
| 239 | 14.503 | 14.446 | 14.523 | VV | 332766     | 4359775  | 0.06% | 0.062% |
| 240 | 14.545 | 14.523 | 14.565 | VV | 381345     | 4509812  | 0.07% | 0.064% |
| 241 | 14.592 | 14.565 | 14.627 | VV | 312215     | 4480809  | 0.07% | 0.063% |
| 242 | 14.644 | 14.627 | 14.673 | VV | 4468       | 96572    | 0.00% | 0.001% |
| 243 | 14.690 | 14.673 | 14.752 | VV | 3482       | 101928   | 0.00% | 0.001% |
| 244 | 14.763 | 14.752 | 14.781 | VV | 1145       | 16937    | 0.00% | 0.000% |
| 245 | 14.835 | 14.781 | 14.853 | VV | 1867       | 49721    | 0.00% | 0.001% |
| 246 | 14.893 | 14.853 | 14.933 | VV | 1483       | 47486    | 0.00% | 0.001% |

|     |        |        |        |    | rteres.txt |         |       |        |
|-----|--------|--------|--------|----|------------|---------|-------|--------|
| 247 | 14.971 | 14.933 | 15.046 | VV | 3671       | 105504  | 0.00% | 0.001% |
| 248 | 15.107 | 15.046 | 15.137 | VV | 4712       | 82781   | 0.00% | 0.001% |
| 249 | 15.165 | 15.137 | 15.251 | VV | 25212      | 395201  | 0.01% | 0.006% |
| 250 | 15.260 | 15.251 | 15.274 | PV | 174        | 2346    | 0.00% | 0.000% |
| 251 | 15.338 | 15.274 | 15.386 | VV | 2374       | 65432   | 0.00% | 0.001% |
| 252 | 15.424 | 15.386 | 15.455 | VV | 735        | 23991   | 0.00% | 0.000% |
| 253 | 15.502 | 15.455 | 15.532 | VV | 1256       | 42746   | 0.00% | 0.001% |
| 254 | 15.610 | 15.532 | 15.649 | VV | 296277     | 3962012 | 0.06% | 0.056% |
| 255 | 15.667 | 15.649 | 15.719 | VV | 3787       | 66350   | 0.00% | 0.001% |
| 256 | 15.776 | 15.719 | 15.794 | VV | 1922       | 58122   | 0.00% | 0.001% |
| 257 | 15.811 | 15.794 | 15.828 | VV | 1260       | 20879   | 0.00% | 0.000% |
| 258 | 15.862 | 15.828 | 15.884 | VV | 1980       | 53024   | 0.00% | 0.001% |
| 259 | 15.891 | 15.884 | 15.912 | VV | 1927       | 26328   | 0.00% | 0.000% |
| 260 | 15.927 | 15.912 | 15.942 | VV | 1918       | 31040   | 0.00% | 0.000% |
| 261 | 15.972 | 15.942 | 16.012 | VV | 3523       | 100955  | 0.00% | 0.001% |
| 262 | 16.054 | 16.012 | 16.069 | VV | 317203     | 4440021 | 0.07% | 0.063% |
| 263 | 16.087 | 16.069 | 16.127 | VV | 365814     | 4608102 | 0.07% | 0.065% |
| 264 | 16.148 | 16.127 | 16.209 | VV | 12687      | 372539  | 0.01% | 0.005% |
| 265 | 16.219 | 16.209 | 16.236 | VV | 5107       | 73958   | 0.00% | 0.001% |
| 266 | 16.267 | 16.236 | 16.317 | VV | 4923       | 209181  | 0.00% | 0.003% |
| 267 | 16.373 | 16.317 | 16.396 | VV | 8084       | 263026  | 0.00% | 0.004% |
| 268 | 16.432 | 16.396 | 16.512 | VV | 317571     | 4585272 | 0.07% | 0.065% |
| 269 | 16.555 | 16.512 | 16.651 | VV | 285975     | 4549007 | 0.07% | 0.064% |
| 270 | 16.754 | 16.651 | 16.763 | VV | 8160       | 466221  | 0.01% | 0.007% |
| 271 | 16.771 | 16.763 | 16.781 | VV | 8134       | 85791   | 0.00% | 0.001% |
| 272 | 16.800 | 16.781 | 16.812 | VV | 7921       | 144236  | 0.00% | 0.002% |
| 273 | 16.840 | 16.812 | 16.862 | VV | 9817       | 255218  | 0.00% | 0.004% |
| 274 | 16.882 | 16.862 | 16.892 | VV | 8542       | 146120  | 0.00% | 0.002% |
| 275 | 16.926 | 16.892 | 16.952 | VV | 12348      | 360475  | 0.01% | 0.005% |
| 276 | 17.002 | 16.952 | 17.051 | VV | 28165      | 791337  | 0.01% | 0.011% |
| 277 | 17.068 | 17.051 | 17.079 | VV | 11452      | 178442  | 0.00% | 0.003% |
| 278 | 17.098 | 17.079 | 17.121 | VV | 11269      | 253503  | 0.00% | 0.004% |
| 279 | 17.152 | 17.121 | 17.173 | VV | 11409      | 326672  | 0.00% | 0.005% |
| 280 | 17.181 | 17.173 | 17.190 | VV | 9809       | 99463   | 0.00% | 0.001% |
| 281 | 17.213 | 17.190 | 17.221 | VV | 10389      | 184441  | 0.00% | 0.003% |
| 282 | 17.237 | 17.221 | 17.259 | VV | 11400      | 244763  | 0.00% | 0.003% |
| 283 | 17.285 | 17.259 | 17.299 | VV | 11437      | 257128  | 0.00% | 0.004% |
| 284 | 17.324 | 17.299 | 17.359 | VV | 13136      | 433969  | 0.01% | 0.006% |
| 285 | 17.440 | 17.359 | 17.478 | VV | 292449     | 4852705 | 0.07% | 0.068% |
| 286 | 17.543 | 17.478 | 17.627 | VV | 22632      | 1389345 | 0.02% | 0.020% |
| 287 | 17.634 | 17.627 | 17.679 | VV | 14576      | 434361  | 0.01% | 0.006% |
| 288 | 17.747 | 17.679 | 17.764 | VV | 17464      | 809034  | 0.01% | 0.011% |
| 289 | 17.801 | 17.764 | 17.818 | VV | 318749     | 4498501 | 0.07% | 0.063% |
| 290 | 17.839 | 17.818 | 17.894 | VV | 315754     | 5272876 | 0.08% | 0.074% |
| 291 | 17.913 | 17.894 | 17.937 | VV | 26794      | 630582  | 0.01% | 0.009% |
| 292 | 17.944 | 17.937 | 17.964 | VV | 22379      | 333730  | 0.00% | 0.005% |
| 293 | 17.982 | 17.964 | 18.017 | VV | 21368      | 619228  | 0.01% | 0.009% |
| 294 | 18.055 | 18.017 | 18.147 | VV | 326051     | 5766101 | 0.09% | 0.081% |
| 295 | 18.160 | 18.147 | 18.192 | VV | 22970      | 570012  | 0.01% | 0.008% |
| 296 | 18.269 | 18.192 | 18.309 | VV | 277847     | 5298064 | 0.08% | 0.075% |
| 297 | 18.335 | 18.309 | 18.352 | VV | 27220      | 640184  | 0.01% | 0.009% |
| 298 | 18.379 | 18.352 | 18.437 | VV | 28687      | 1263500 | 0.02% | 0.018% |
| 299 | 18.510 | 18.437 | 18.532 | VV | 25613      | 1342018 | 0.02% | 0.019% |

|     |        |        |        |    |            |         |       |        |
|-----|--------|--------|--------|----|------------|---------|-------|--------|
|     |        |        |        |    | rteres.txt |         |       |        |
| 300 | 18.537 | 18.532 | 18.547 | VV | 24616      | 214567  | 0.00% | 0.003% |
| 301 | 18.592 | 18.547 | 18.614 | VV | 28246      | 1031897 | 0.02% | 0.015% |
| 302 | 18.622 | 18.614 | 18.639 | VV | 27583      | 398410  | 0.01% | 0.006% |
| 303 | 18.662 | 18.639 | 18.702 | VV | 40726      | 1191313 | 0.02% | 0.017% |
| 304 | 18.732 | 18.702 | 18.780 | VV | 30430      | 1320700 | 0.02% | 0.019% |
| 305 | 18.788 | 18.780 | 18.806 | VV | 28882      | 425392  | 0.01% | 0.006% |
| 306 | 18.847 | 18.806 | 18.886 | VV | 31136      | 1363556 | 0.02% | 0.019% |
| 307 | 18.897 | 18.886 | 18.941 | VV | 30099      | 952350  | 0.01% | 0.013% |
| 308 | 18.968 | 18.941 | 18.980 | VV | 29406      | 676363  | 0.01% | 0.010% |
| 309 | 19.050 | 18.980 | 19.119 | VV | 266690     | 6110787 | 0.09% | 0.086% |
| 310 | 19.138 | 19.119 | 19.162 | VV | 34683      | 856492  | 0.01% | 0.012% |
| 311 | 19.174 | 19.162 | 19.202 | VV | 34259      | 793718  | 0.01% | 0.011% |
| 312 | 19.216 | 19.202 | 19.228 | VV | 34737      | 525387  | 0.01% | 0.007% |
| 313 | 19.238 | 19.228 | 19.258 | VV | 34716      | 621636  | 0.01% | 0.009% |
| 314 | 19.284 | 19.258 | 19.316 | VV | 37825      | 1202140 | 0.02% | 0.017% |
| 315 | 19.355 | 19.316 | 19.399 | VV | 40023      | 1844422 | 0.03% | 0.026% |
| 316 | 19.424 | 19.399 | 19.452 | VV | 45529      | 1303059 | 0.02% | 0.018% |
| 317 | 19.462 | 19.452 | 19.482 | VV | 39128      | 664596  | 0.01% | 0.009% |
| 318 | 19.491 | 19.482 | 19.501 | VV | 38049      | 429472  | 0.01% | 0.006% |
| 319 | 19.546 | 19.501 | 19.577 | VV | 42442      | 1818711 | 0.03% | 0.026% |
| 320 | 19.586 | 19.577 | 19.611 | VV | 41558      | 816109  | 0.01% | 0.012% |
| 321 | 19.656 | 19.611 | 19.682 | VV | 47023      | 1855153 | 0.03% | 0.026% |
| 322 | 19.700 | 19.682 | 19.714 | VV | 43466      | 807701  | 0.01% | 0.011% |
| 323 | 19.788 | 19.714 | 19.852 | VV | 266130     | 6844644 | 0.10% | 0.097% |
| 324 | 19.865 | 19.852 | 19.879 | VV | 47308      | 756908  | 0.01% | 0.011% |
| 325 | 19.911 | 19.879 | 19.931 | VV | 48611      | 1480130 | 0.02% | 0.021% |
| 326 | 19.966 | 19.931 | 19.984 | VV | 50743      | 1557024 | 0.02% | 0.022% |
| 327 | 19.997 | 19.984 | 20.018 | VV | 51076      | 1004813 | 0.01% | 0.014% |
| 328 | 20.042 | 20.018 | 20.055 | VV | 50226      | 1082954 | 0.02% | 0.015% |
| 329 | 20.068 | 20.055 | 20.077 | VV | 50707      | 653612  | 0.01% | 0.009% |
| 330 | 20.101 | 20.077 | 20.110 | VV | 51512      | 976108  | 0.01% | 0.014% |
| 331 | 20.138 | 20.110 | 20.181 | VV | 58488      | 2275604 | 0.03% | 0.032% |
| 332 | 20.192 | 20.181 | 20.209 | VV | 53573      | 889172  | 0.01% | 0.013% |
| 333 | 20.226 | 20.209 | 20.246 | VV | 55347      | 1178539 | 0.02% | 0.017% |
| 334 | 20.254 | 20.246 | 20.272 | VV | 56162      | 876048  | 0.01% | 0.012% |
| 335 | 20.295 | 20.272 | 20.317 | VV | 58409      | 1504256 | 0.02% | 0.021% |
| 336 | 20.352 | 20.317 | 20.369 | VV | 59147      | 1798207 | 0.03% | 0.025% |
| 337 | 20.376 | 20.369 | 20.394 | VV | 60394      | 877345  | 0.01% | 0.012% |
| 338 | 20.406 | 20.394 | 20.431 | VV | 59638      | 1269906 | 0.02% | 0.018% |
| 339 | 20.489 | 20.431 | 20.557 | VV | 244174     | 7252168 | 0.11% | 0.102% |
| 340 | 20.572 | 20.557 | 20.594 | VV | 58341      | 1240898 | 0.02% | 0.018% |
| 341 | 20.634 | 20.594 | 20.662 | VV | 57178      | 2251100 | 0.03% | 0.032% |
| 342 | 20.675 | 20.662 | 20.684 | VV | 54382      | 722222  | 0.01% | 0.010% |
| 343 | 20.703 | 20.684 | 20.722 | VV | 56838      | 1242038 | 0.02% | 0.018% |
| 344 | 20.750 | 20.722 | 20.792 | VV | 54864      | 2223726 | 0.03% | 0.031% |
| 345 | 20.802 | 20.792 | 20.827 | VV | 53084      | 1120651 | 0.02% | 0.016% |
| 346 | 20.836 | 20.827 | 20.842 | VV | 51256      | 440530  | 0.01% | 0.006% |
| 347 | 20.865 | 20.842 | 20.916 | VV | 54950      | 2310350 | 0.03% | 0.033% |
| 348 | 20.933 | 20.916 | 20.961 | VV | 49622      | 1308999 | 0.02% | 0.018% |
| 349 | 20.970 | 20.961 | 21.010 | VV | 50030      | 1434643 | 0.02% | 0.020% |
| 350 | 21.019 | 21.010 | 21.069 | VV | 49001      | 1660324 | 0.02% | 0.023% |
| 351 | 21.085 | 21.069 | 21.117 | VV | 47376      | 1334578 | 0.02% | 0.019% |

|     |        |        |        |     |                         |         |            |        |  |
|-----|--------|--------|--------|-----|-------------------------|---------|------------|--------|--|
|     |        |        |        |     | rteres.txt              |         |            |        |  |
| 352 | 21.126 | 21.117 | 21.152 | VV  | 46081                   | 934782  | 0.01%      | 0.013% |  |
| 353 | 21.171 | 21.152 | 21.191 | VV  | 45618                   | 1048352 | 0.02%      | 0.015% |  |
| 354 | 21.198 | 21.191 | 21.205 | VV  | 45751                   | 390211  | 0.01%      | 0.006% |  |
| 355 | 21.224 | 21.205 | 21.251 | VV  | 46605                   | 1226712 | 0.02%      | 0.017% |  |
| 356 | 21.298 | 21.251 | 21.367 | VV  | 186874                  | 6043426 | 0.09%      | 0.085% |  |
| 357 | 21.379 | 21.367 | 21.401 | VBA | 43991                   | 898154  | 0.01%      | 0.013% |  |
|     |        |        |        |     | Sum of corrected areas: |         | 7087237359 |        |  |

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