

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_C\Data\FC102518AL\  
 Data File : FC037102.D  
 Signal(s) : FID1A.CH  
 Acq On : 25 Oct 2018 17:02  
 Sample : J5631-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_C\Method\Alaphatic EPH 101718.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         | 3.272       | 3.222        | 3.285      | BV       | 638374         | 2970677      | 0.42%          | 0.013%        |
| 2         | 3.296       | 3.285        | 3.310      | VV       | 446029         | 3602872      | 0.50%          | 0.016%        |
| 3         | 3.320       | 3.310        | 3.337      | VV       | 268219         | 2223683      | 0.31%          | 0.010%        |
| 4         | 3.355       | 3.337        | 3.367      | PV       | 204916         | 2232335      | 0.31%          | 0.010%        |
| 5         | 3.380       | 3.367        | 3.399      | VV       | 306705         | 3192550      | 0.45%          | 0.014%        |
| 6         | 3.411       | 3.399        | 3.422      | VV       | 103013         | 841699       | 0.12%          | 0.004%        |
| 7         | 3.439       | 3.422        | 3.474      | VV       | 1010918        | 14468884     | 2.03%          | 0.064%        |
| 8         | 3.507       | 3.474        | 3.535      | VV       | 387677         | 8002028      | 1.12%          | 0.035%        |
| 9         | 3.558       | 3.535        | 3.570      | VV       | 1286534        | 14831136     | 2.08%          | 0.065%        |
| 10        | 3.586       | 3.570        | 3.607      | VV       | 1896745        | 23049831     | 3.23%          | 0.102%        |
| 11        | 3.630       | 3.607        | 3.651      | VV       | 580460         | 11426247     | 1.60%          | 0.050%        |
| 12        | 3.685       | 3.651        | 3.717      | VV       | 5053580        | 97315918     | 13.63%         | 0.429%        |
| 13        | 3.728       | 3.717        | 3.740      | VV       | 679203         | 5038838      | 0.71%          | 0.022%        |
| 14        | 3.764       | 3.740        | 3.816      | VV       | 3469504        | 45959299     | 6.44%          | 0.202%        |
| 15        | 3.855       | 3.816        | 3.871      | VV       | 4324111        | 52353188     | 7.33%          | 0.231%        |
| 16        | 3.886       | 3.871        | 3.905      | VV       | 1728836        | 22343523     | 3.13%          | 0.098%        |
| 17        | 3.916       | 3.905        | 3.933      | VV       | 498393         | 7479795      | 1.05%          | 0.033%        |
| 18        | 3.965       | 3.933        | 3.989      | VV       | 1092582        | 22870921     | 3.20%          | 0.101%        |
| 19        | 4.039       | 3.989        | 4.055      | VV       | 7811657        | 136697919    | 19.15%         | 0.602%        |
| 20        | 4.066       | 4.055        | 4.087      | VV       | 1340244        | 15145385     | 2.12%          | 0.067%        |
| 21        | 4.095       | 4.087        | 4.135      | VV       | 465967         | 7726874      | 1.08%          | 0.034%        |
| 22        | 4.166       | 4.135        | 4.184      | VV       | 701149         | 11417379     | 1.60%          | 0.050%        |
| 23        | 4.203       | 4.184        | 4.231      | VV       | 1556073        | 20623738     | 2.89%          | 0.091%        |
| 24        | 4.282       | 4.231        | 4.317      | VV       | 6744539        | 130205518    | 18.24%         | 0.574%        |
| 25        | 4.334       | 4.317        | 4.350      | VV       | 1669131        | 19993172     | 2.80%          | 0.088%        |
| 26        | 4.365       | 4.350        | 4.381      | VV       | 960565         | 10404658     | 1.46%          | 0.046%        |
| 27        | 4.406       | 4.381        | 4.437      | VV       | 2719351        | 38262776     | 5.36%          | 0.169%        |
| 28        | 4.452       | 4.437        | 4.467      | VV       | 910165         | 12899334     | 1.81%          | 0.057%        |
| 29        | 4.481       | 4.467        | 4.495      | VV       | 761020         | 10836022     | 1.52%          | 0.048%        |
| 30        | 4.519       | 4.495        | 4.553      | VV       | 1784366        | 39838327     | 5.58%          | 0.176%        |
| 31        | 4.608       | 4.553        | 4.619      | VV       | 1606495        | 43233944     | 6.06%          | 0.190%        |
| 32        | 4.646       | 4.619        | 4.663      | VV       | 4506006        | 70617210     | 9.89%          | 0.311%        |
| 33        | 4.687       | 4.663        | 4.704      | VV       | 4456158        | 64208747     | 8.99%          | 0.283%        |
| 34        | 4.726       | 4.704        | 4.763      | VV       | 5447938        | 73985894     | 10.36%         | 0.326%        |
| 35        | 4.789       | 4.763        | 4.807      | VV       | 2867823        | 34658482     | 4.86%          | 0.153%        |
| 36        | 4.819       | 4.807        | 4.858      | VV       | 738278         | 15880112     | 2.22%          | 0.070%        |

|    |       |       |       |    | rteres.txt |           |        |        |
|----|-------|-------|-------|----|------------|-----------|--------|--------|
| 37 | 4.918 | 4.858 | 4.942 | VV | 5127232    | 136907558 | 19.18% | 0.603% |
| 38 | 4.959 | 4.942 | 4.972 | VV | 5089488    | 59026290  | 8.27%  | 0.260% |
| 39 | 4.996 | 4.972 | 5.049 | VV | 5664795    | 114773992 | 16.08% | 0.506% |
| 40 | 5.064 | 5.049 | 5.079 | VV | 550327     | 8659839   | 1.21%  | 0.038% |
| 41 | 5.102 | 5.079 | 5.135 | VV | 1044597    | 28120519  | 3.94%  | 0.124% |
| 42 | 5.171 | 5.135 | 5.179 | VV | 2914849    | 46738789  | 6.55%  | 0.206% |
| 43 | 5.191 | 5.179 | 5.210 | VV | 3334634    | 43846992  | 6.14%  | 0.193% |
| 44 | 5.220 | 5.210 | 5.232 | VV | 1072879    | 13121081  | 1.84%  | 0.058% |
| 45 | 5.248 | 5.232 | 5.269 | VV | 1433883    | 22703264  | 3.18%  | 0.100% |
| 46 | 5.339 | 5.269 | 5.418 | VV | 11971917   | 310523498 | 43.50% | 1.368% |
| 47 | 5.434 | 5.418 | 5.449 | VV | 715865     | 11877651  | 1.66%  | 0.052% |
| 48 | 5.504 | 5.449 | 5.550 | VV | 5593977    | 141772912 | 19.86% | 0.625% |
| 49 | 5.602 | 5.550 | 5.624 | VV | 7447930    | 157508991 | 22.07% | 0.694% |
| 50 | 5.631 | 5.624 | 5.650 | VV | 3814213    | 47407382  | 6.64%  | 0.209% |
| 51 | 5.692 | 5.650 | 5.722 | VV | 6941403    | 173194048 | 24.26% | 0.763% |
| 52 | 5.728 | 5.722 | 5.751 | VV | 2579423    | 34198424  | 4.79%  | 0.151% |
| 53 | 5.778 | 5.751 | 5.799 | VV | 2795701    | 53555143  | 7.50%  | 0.236% |
| 54 | 5.838 | 5.799 | 5.848 | VV | 3661815    | 76108779  | 10.66% | 0.335% |
| 55 | 5.879 | 5.848 | 5.908 | VV | 8176232    | 164886086 | 23.10% | 0.726% |
| 56 | 5.922 | 5.908 | 5.935 | VV | 2655052    | 36493161  | 5.11%  | 0.161% |
| 57 | 5.971 | 5.935 | 5.982 | VV | 3807168    | 79347887  | 11.12% | 0.350% |
| 58 | 6.006 | 5.982 | 6.064 | VV | 5205303    | 179407903 | 25.13% | 0.790% |
| 59 | 6.085 | 6.064 | 6.099 | VV | 4376977    | 64563944  | 9.04%  | 0.284% |
| 60 | 6.134 | 6.099 | 6.167 | VV | 3437267    | 107627859 | 15.08% | 0.474% |
| 61 | 6.186 | 6.167 | 6.205 | VV | 1940817    | 39532910  | 5.54%  | 0.174% |
| 62 | 6.247 | 6.205 | 6.267 | VV | 6076959    | 139779089 | 19.58% | 0.616% |
| 63 | 6.319 | 6.267 | 6.375 | VV | 9923909    | 304271864 | 42.62% | 1.341% |
| 64 | 6.415 | 6.375 | 6.432 | VV | 4256812    | 104204160 | 14.60% | 0.459% |
| 65 | 6.458 | 6.432 | 6.474 | VV | 4162747    | 84903360  | 11.89% | 0.374% |
| 66 | 6.492 | 6.474 | 6.513 | VV | 3947593    | 73741118  | 10.33% | 0.325% |
| 67 | 6.522 | 6.513 | 6.557 | VV | 2622190    | 61834417  | 8.66%  | 0.272% |
| 68 | 6.585 | 6.557 | 6.610 | VV | 4871814    | 106088807 | 14.86% | 0.467% |
| 69 | 6.623 | 6.610 | 6.638 | VV | 2920285    | 46077828  | 6.45%  | 0.203% |
| 70 | 6.650 | 6.638 | 6.662 | VV | 2769874    | 39120629  | 5.48%  | 0.172% |
| 71 | 6.724 | 6.662 | 6.792 | VV | 8867965    | 362041682 | 50.72% | 1.595% |
| 72 | 6.820 | 6.792 | 6.839 | VV | 3589129    | 90555301  | 12.69% | 0.399% |
| 73 | 6.856 | 6.839 | 6.870 | VV | 3756405    | 67857185  | 9.51%  | 0.299% |
| 74 | 6.883 | 6.870 | 6.895 | VV | 3795892    | 53616926  | 7.51%  | 0.236% |
| 75 | 6.981 | 6.895 | 7.056 | VV | 11723367   | 687358313 | 96.29% | 3.028% |
| 76 | 7.103 | 7.056 | 7.184 | VV | 7582328    | 342379140 | 47.96% | 1.508% |
| 77 | 7.274 | 7.184 | 7.382 | VV | 10571215   | 688555486 | 96.46% | 3.034% |
| 78 | 7.451 | 7.382 | 7.519 | VV | 4384628    | 294214856 | 41.22% | 1.296% |
| 79 | 7.559 | 7.519 | 7.623 | VV | 3656522    | 202255452 | 28.33% | 0.891% |
| 80 | 7.683 | 7.623 | 7.773 | VV | 3929695    | 313523308 | 43.92% | 1.381% |
| 81 | 7.863 | 7.773 | 7.882 | VV | 5740983    | 306452316 | 42.93% | 1.350% |
| 82 | 7.906 | 7.882 | 7.913 | VV | 5860250    | 106142749 | 14.87% | 0.468% |
| 83 | 7.962 | 7.913 | 8.015 | VV | 6902467    | 368252216 | 51.59% | 1.622% |
| 84 | 8.133 | 8.015 | 8.150 | VV | 11903640   | 647844437 | 90.76% | 2.854% |
| 85 | 8.166 | 8.150 | 8.205 | VV | 11583474   | 266924385 | 37.39% | 1.176% |
| 86 | 8.254 | 8.205 | 8.294 | VV | 5791267    | 265828610 | 37.24% | 1.171% |
| 87 | 8.364 | 8.294 | 8.455 | VV | 6126555    | 401064717 | 56.18% | 1.767% |
| 88 | 8.580 | 8.455 | 8.620 | VV | 5812651    | 425010630 | 59.54% | 1.873% |
| 89 | 8.671 | 8.620 | 8.712 | VV | 6327627    | 298257760 | 41.78% | 1.314% |

| rteres.txt |        |        |        |    |          |           |         |        |
|------------|--------|--------|--------|----|----------|-----------|---------|--------|
| 90         | 8.724  | 8.712  | 8.735  | VV | 4087563  | 56124472  | 7.86%   | 0.247% |
| 91         | 8.799  | 8.735  | 8.862  | VV | 6267419  | 362545936 | 50.79%  | 1.597% |
| 92         | 8.892  | 8.862  | 8.903  | VV | 3923454  | 92095212  | 12.90%  | 0.406% |
| 93         | 8.994  | 8.903  | 9.069  | VV | 14594322 | 713836297 | 100.00% | 3.145% |
| 94         | 9.139  | 9.069  | 9.154  | VV | 5284521  | 224425281 | 31.44%  | 0.989% |
| 95         | 9.164  | 9.154  | 9.199  | VV | 5444857  | 116164988 | 16.27%  | 0.512% |
| 96         | 9.257  | 9.199  | 9.295  | VV | 6396199  | 265454037 | 37.19%  | 1.170% |
| 97         | 9.328  | 9.295  | 9.366  | VV | 5597564  | 198297320 | 27.78%  | 0.874% |
| 98         | 9.412  | 9.366  | 9.447  | VV | 8218536  | 273678196 | 38.34%  | 1.206% |
| 99         | 9.506  | 9.447  | 9.524  | VV | 6054638  | 236486188 | 33.13%  | 1.042% |
| 100        | 9.530  | 9.524  | 9.585  | VV | 5552072  | 163726727 | 22.94%  | 0.721% |
| 101        | 9.598  | 9.585  | 9.610  | VV | 3067334  | 45234673  | 6.34%   | 0.199% |
| 102        | 9.757  | 9.610  | 9.779  | VV | 13624043 | 639365538 | 89.57%  | 2.817% |
| 103        | 9.799  | 9.779  | 9.815  | VV | 3848735  | 77749104  | 10.89%  | 0.343% |
| 104        | 9.827  | 9.815  | 9.868  | VV | 3742589  | 105341671 | 14.76%  | 0.464% |
| 105        | 9.911  | 9.868  | 9.963  | VV | 4359501  | 184180772 | 25.80%  | 0.811% |
| 106        | 9.983  | 9.963  | 10.021 | VV | 2740222  | 89427110  | 12.53%  | 0.394% |
| 107        | 10.057 | 10.021 | 10.077 | VV | 4180592  | 114753846 | 16.08%  | 0.506% |
| 108        | 10.121 | 10.077 | 10.144 | VV | 5664084  | 186412150 | 26.11%  | 0.821% |
| 109        | 10.200 | 10.144 | 10.225 | VV | 5435441  | 224804763 | 31.49%  | 0.990% |
| 110        | 10.255 | 10.225 | 10.289 | VV | 7322931  | 191025345 | 26.76%  | 0.842% |
| 111        | 10.336 | 10.289 | 10.372 | VV | 4725983  | 203671403 | 28.53%  | 0.897% |
| 112        | 10.383 | 10.372 | 10.404 | VV | 4467262  | 79240440  | 11.10%  | 0.349% |
| 113        | 10.490 | 10.404 | 10.515 | VV | 10861349 | 435449682 | 61.00%  | 1.919% |
| 114        | 10.549 | 10.515 | 10.632 | VV | 7706170  | 323597692 | 45.33%  | 1.426% |
| 115        | 10.643 | 10.632 | 10.670 | VV | 2820740  | 61795970  | 8.66%   | 0.272% |
| 116        | 10.726 | 10.670 | 10.764 | VV | 4902660  | 218731857 | 30.64%  | 0.964% |
| 117        | 10.780 | 10.764 | 10.805 | VV | 3483769  | 83295254  | 11.67%  | 0.367% |
| 118        | 10.827 | 10.805 | 10.850 | VV | 3495311  | 88423474  | 12.39%  | 0.390% |
| 119        | 10.866 | 10.850 | 10.880 | VV | 3313280  | 58432536  | 8.19%   | 0.257% |
| 120        | 10.908 | 10.880 | 10.932 | VV | 3681139  | 104441493 | 14.63%  | 0.460% |
| 121        | 10.948 | 10.932 | 10.977 | VV | 3279585  | 82768822  | 11.59%  | 0.365% |
| 122        | 11.013 | 10.977 | 11.031 | VV | 3350258  | 100719647 | 14.11%  | 0.444% |
| 123        | 11.060 | 11.031 | 11.078 | VV | 3559268  | 94868943  | 13.29%  | 0.418% |
| 124        | 11.099 | 11.078 | 11.110 | VV | 3554662  | 65197928  | 9.13%   | 0.287% |
| 125        | 11.177 | 11.110 | 11.212 | VV | 7944886  | 342701825 | 48.01%  | 1.510% |
| 126        | 11.253 | 11.212 | 11.312 | VV | 5396659  | 232724664 | 32.60%  | 1.025% |
| 127        | 11.346 | 11.312 | 11.360 | VV | 3101211  | 81257015  | 11.38%  | 0.358% |
| 128        | 11.368 | 11.360 | 11.415 | VV | 2938150  | 90951687  | 12.74%  | 0.401% |
| 129        | 11.448 | 11.415 | 11.469 | VV | 2941953  | 89960063  | 12.60%  | 0.396% |
| 130        | 11.544 | 11.469 | 11.609 | VV | 5416230  | 324568186 | 45.47%  | 1.430% |
| 131        | 11.655 | 11.609 | 11.664 | VV | 3327881  | 97443156  | 13.65%  | 0.429% |
| 132        | 11.691 | 11.664 | 11.759 | VV | 3888588  | 173894217 | 24.36%  | 0.766% |
| 133        | 11.834 | 11.759 | 11.885 | VV | 8086707  | 324335684 | 45.44%  | 1.429% |
| 134        | 11.901 | 11.885 | 11.967 | VV | 2797998  | 113174204 | 15.85%  | 0.499% |
| 135        | 12.024 | 11.967 | 12.049 | VV | 2510274  | 109598211 | 15.35%  | 0.483% |
| 136        | 12.059 | 12.049 | 12.084 | VV | 2356787  | 48070652  | 6.73%   | 0.212% |
| 137        | 12.098 | 12.084 | 12.129 | VV | 2346215  | 59634086  | 8.35%   | 0.263% |
| 138        | 12.224 | 12.129 | 12.248 | VV | 2663823  | 161180254 | 22.58%  | 0.710% |
| 139        | 12.301 | 12.248 | 12.337 | VV | 3028260  | 134432453 | 18.83%  | 0.592% |
| 140        | 12.457 | 12.337 | 12.485 | VV | 7762729  | 315504776 | 44.20%  | 1.390% |
| 141        | 12.506 | 12.485 | 12.579 | VV | 2512775  | 110004456 | 15.41%  | 0.485% |

|     |        |        |        |    | rteres.txt |           |        |        |
|-----|--------|--------|--------|----|------------|-----------|--------|--------|
| 142 | 12.596 | 12.579 | 12.607 | VV | 1576045    | 26189547  | 3.67%  | 0.115% |
| 143 | 12.625 | 12.607 | 12.658 | VV | 1799334    | 51064675  | 7.15%  | 0.225% |
| 144 | 12.681 | 12.658 | 12.728 | VV | 1818096    | 68949022  | 9.66%  | 0.304% |
| 145 | 12.741 | 12.728 | 12.762 | VV | 1560150    | 30528935  | 4.28%  | 0.135% |
| 146 | 12.784 | 12.762 | 12.797 | VV | 1833008    | 34527203  | 4.84%  | 0.152% |
| 147 | 12.811 | 12.797 | 12.837 | VV | 1762356    | 39011123  | 5.46%  | 0.172% |
| 148 | 12.862 | 12.837 | 12.889 | VV | 1704002    | 48437762  | 6.79%  | 0.213% |
| 149 | 12.913 | 12.889 | 13.001 | VV | 1718839    | 95779279  | 13.42% | 0.422% |
| 150 | 13.046 | 13.001 | 13.091 | VV | 4885470    | 128907969 | 18.06% | 0.568% |
| 151 | 13.115 | 13.091 | 13.147 | VV | 1803931    | 47493314  | 6.65%  | 0.209% |
| 152 | 13.174 | 13.147 | 13.182 | VV | 1275806    | 24889721  | 3.49%  | 0.110% |
| 153 | 13.207 | 13.182 | 13.227 | VV | 1259607    | 32669836  | 4.58%  | 0.144% |
| 154 | 13.248 | 13.227 | 13.278 | VV | 1358024    | 37126545  | 5.20%  | 0.164% |
| 155 | 13.289 | 13.278 | 13.307 | VV | 1231024    | 20385692  | 2.86%  | 0.090% |
| 156 | 13.320 | 13.307 | 13.339 | VV | 1121807    | 20187291  | 2.83%  | 0.089% |
| 157 | 13.358 | 13.339 | 13.379 | VV | 1145075    | 25485631  | 3.57%  | 0.112% |
| 158 | 13.394 | 13.379 | 13.417 | VV | 1121803    | 23114019  | 3.24%  | 0.102% |
| 159 | 13.441 | 13.417 | 13.475 | VV | 1055019    | 33662248  | 4.72%  | 0.148% |
| 160 | 13.501 | 13.475 | 13.529 | VV | 1023429    | 29989487  | 4.20%  | 0.132% |
| 161 | 13.536 | 13.529 | 13.564 | VV | 921976     | 18063499  | 2.53%  | 0.080% |
| 162 | 13.608 | 13.564 | 13.640 | VV | 3021171    | 69784112  | 9.78%  | 0.307% |
| 163 | 13.657 | 13.640 | 13.762 | VV | 908477     | 55443997  | 7.77%  | 0.244% |
| 164 | 13.817 | 13.762 | 13.872 | VV | 941652     | 48807218  | 6.84%  | 0.215% |
| 165 | 13.883 | 13.872 | 13.911 | VV | 724357     | 15787495  | 2.21%  | 0.070% |
| 166 | 13.920 | 13.911 | 13.932 | VV | 658943     | 7914964   | 1.11%  | 0.035% |
| 167 | 13.951 | 13.932 | 13.985 | VV | 817115     | 22449282  | 3.14%  | 0.099% |
| 168 | 14.000 | 13.985 | 14.029 | VV | 742151     | 17256618  | 2.42%  | 0.076% |
| 169 | 14.048 | 14.029 | 14.117 | VV | 603017     | 29552520  | 4.14%  | 0.130% |
| 170 | 14.152 | 14.117 | 14.200 | VV | 1647923    | 42388306  | 5.94%  | 0.187% |
| 171 | 14.220 | 14.200 | 14.252 | VV | 594635     | 17557535  | 2.46%  | 0.077% |
| 172 | 14.270 | 14.252 | 14.315 | VV | 610996     | 20593293  | 2.88%  | 0.091% |
| 173 | 14.348 | 14.315 | 14.384 | VV | 619723     | 22311596  | 3.13%  | 0.098% |
| 174 | 14.392 | 14.384 | 14.413 | VV | 548287     | 9415800   | 1.32%  | 0.041% |
| 175 | 14.423 | 14.413 | 14.445 | VV | 534051     | 9678433   | 1.36%  | 0.043% |
| 176 | 14.458 | 14.445 | 14.474 | VV | 509962     | 8106086   | 1.14%  | 0.036% |
| 177 | 14.491 | 14.474 | 14.509 | VV | 494697     | 9762696   | 1.37%  | 0.043% |
| 178 | 14.534 | 14.509 | 14.554 | VV | 541362     | 13318762  | 1.87%  | 0.059% |
| 179 | 14.561 | 14.554 | 14.590 | VV | 506860     | 10123479  | 1.42%  | 0.045% |
| 180 | 14.603 | 14.590 | 14.626 | VV | 457472     | 9176030   | 1.29%  | 0.040% |
| 181 | 14.644 | 14.626 | 14.655 | VV | 404912     | 6785996   | 0.95%  | 0.030% |
| 182 | 14.682 | 14.655 | 14.710 | VV | 949439     | 20643956  | 2.89%  | 0.091% |
| 183 | 14.756 | 14.710 | 14.805 | VV | 483524     | 25768984  | 3.61%  | 0.114% |
| 184 | 14.816 | 14.805 | 14.847 | VV | 449373     | 10289001  | 1.44%  | 0.045% |
| 185 | 14.874 | 14.847 | 14.902 | VV | 534476     | 15629377  | 2.19%  | 0.069% |
| 186 | 14.920 | 14.902 | 14.937 | VV | 479626     | 9431577   | 1.32%  | 0.042% |
| 187 | 14.950 | 14.937 | 14.965 | VV | 452286     | 7274325   | 1.02%  | 0.032% |
| 188 | 14.983 | 14.965 | 14.999 | VV | 435712     | 8338355   | 1.17%  | 0.037% |
| 189 | 15.015 | 14.999 | 15.042 | VV | 425726     | 10569034  | 1.48%  | 0.047% |
| 190 | 15.063 | 15.042 | 15.082 | VV | 479467     | 10394849  | 1.46%  | 0.046% |
| 191 | 15.101 | 15.082 | 15.159 | VV | 472447     | 18815889  | 2.64%  | 0.083% |
| 192 | 15.198 | 15.159 | 15.222 | VV | 613514     | 18151670  | 2.54%  | 0.080% |
| 193 | 15.245 | 15.222 | 15.279 | VV | 525276     | 15905613  | 2.23%  | 0.070% |
| 194 | 15.287 | 15.279 | 15.347 | VV | 432985     | 16362737  | 2.29%  | 0.072% |

|     |        |        |        |    | rteres.txt |          |       |        |
|-----|--------|--------|--------|----|------------|----------|-------|--------|
| 195 | 15.375 | 15.347 | 15.425 | VV | 508725     | 21612073 | 3.03% | 0.095% |
| 196 | 15.433 | 15.425 | 15.475 | VV | 445478     | 12730383 | 1.78% | 0.056% |
| 197 | 15.504 | 15.475 | 15.549 | VV | 496602     | 20032128 | 2.81% | 0.088% |
| 198 | 15.578 | 15.549 | 15.605 | VV | 452299     | 14076936 | 1.97% | 0.062% |
| 199 | 15.624 | 15.605 | 15.640 | VV | 439698     | 8886592  | 1.24% | 0.039% |
| 200 | 15.651 | 15.640 | 15.660 | VV | 414224     | 4825847  | 0.68% | 0.021% |
| 201 | 15.697 | 15.660 | 15.715 | VV | 546295     | 15067994 | 2.11% | 0.066% |
| 202 | 15.735 | 15.715 | 15.772 | VV | 487021     | 15311658 | 2.14% | 0.067% |
| 203 | 15.790 | 15.772 | 15.812 | VV | 436088     | 10023347 | 1.40% | 0.044% |
| 204 | 15.819 | 15.812 | 15.837 | VV | 417866     | 6036720  | 0.85% | 0.027% |
| 205 | 15.869 | 15.837 | 15.897 | VV | 615715     | 18013092 | 2.52% | 0.079% |
| 206 | 15.916 | 15.897 | 15.969 | VV | 496015     | 19856487 | 2.78% | 0.087% |
| 207 | 16.007 | 15.969 | 16.045 | VV | 541749     | 22702507 | 3.18% | 0.100% |
| 208 | 16.065 | 16.045 | 16.090 | VV | 481933     | 12382957 | 1.73% | 0.055% |
| 209 | 16.125 | 16.090 | 16.154 | VV | 470042     | 16868610 | 2.36% | 0.074% |
| 210 | 16.177 | 16.154 | 16.197 | VV | 477862     | 11899828 | 1.67% | 0.052% |
| 211 | 16.211 | 16.197 | 16.235 | VV | 476321     | 10441231 | 1.46% | 0.046% |
| 212 | 16.253 | 16.235 | 16.270 | VV | 453591     | 9210367  | 1.29% | 0.041% |
| 213 | 16.293 | 16.270 | 16.314 | VV | 456058     | 11704340 | 1.64% | 0.052% |
| 214 | 16.343 | 16.314 | 16.374 | VV | 611994     | 19011207 | 2.66% | 0.084% |
| 215 | 16.395 | 16.374 | 16.402 | VV | 534664     | 8658462  | 1.21% | 0.038% |
| 216 | 16.410 | 16.402 | 16.436 | VV | 530872     | 10070800 | 1.41% | 0.044% |
| 217 | 16.499 | 16.436 | 16.582 | VV | 515478     | 40911456 | 5.73% | 0.180% |
| 218 | 16.647 | 16.582 | 16.674 | VV | 527976     | 26599517 | 3.73% | 0.117% |
| 219 | 16.690 | 16.674 | 16.712 | VV | 505756     | 10958593 | 1.54% | 0.048% |
| 220 | 16.797 | 16.712 | 16.833 | VV | 640914     | 36661346 | 5.14% | 0.162% |
| 221 | 16.861 | 16.833 | 16.887 | VV | 572585     | 17147638 | 2.40% | 0.076% |
| 222 | 16.896 | 16.887 | 16.917 | VV | 485361     | 8704896  | 1.22% | 0.038% |
| 223 | 16.931 | 16.917 | 16.959 | VV | 493474     | 11989372 | 1.68% | 0.053% |
| 224 | 16.967 | 16.959 | 16.998 | VV | 497901     | 11249231 | 1.58% | 0.050% |
| 225 | 17.020 | 16.998 | 17.055 | VV | 507342     | 16308063 | 2.28% | 0.072% |
| 226 | 17.097 | 17.055 | 17.117 | VV | 512389     | 17750862 | 2.49% | 0.078% |
| 227 | 17.136 | 17.117 | 17.167 | VV | 489060     | 13976382 | 1.96% | 0.062% |
| 228 | 17.206 | 17.167 | 17.217 | VV | 547879     | 14951308 | 2.09% | 0.066% |
| 229 | 17.240 | 17.217 | 17.290 | VV | 660807     | 23517223 | 3.29% | 0.104% |
| 230 | 17.299 | 17.290 | 17.318 | VV | 453868     | 7443303  | 1.04% | 0.033% |
| 231 | 17.364 | 17.318 | 17.381 | VV | 494952     | 17316175 | 2.43% | 0.076% |
| 232 | 17.419 | 17.381 | 17.437 | VV | 480924     | 16107966 | 2.26% | 0.071% |
| 233 | 17.454 | 17.437 | 17.479 | VV | 522209     | 12537892 | 1.76% | 0.055% |
| 234 | 17.488 | 17.479 | 17.499 | VV | 506154     | 6030653  | 0.84% | 0.027% |
| 235 | 17.515 | 17.499 | 17.565 | VV | 511619     | 18767840 | 2.63% | 0.083% |
| 236 | 17.581 | 17.565 | 17.603 | VV | 469025     | 10177624 | 1.43% | 0.045% |
| 237 | 17.664 | 17.603 | 17.716 | VV | 652827     | 34950712 | 4.90% | 0.154% |
| 238 | 17.739 | 17.716 | 17.775 | VV | 459775     | 15898530 | 2.23% | 0.070% |
| 239 | 17.819 | 17.775 | 17.837 | VV | 515245     | 17514609 | 2.45% | 0.077% |
| 240 | 17.847 | 17.837 | 17.860 | VV | 459656     | 6304482  | 0.88% | 0.028% |
| 241 | 17.892 | 17.860 | 17.920 | VV | 523798     | 17197503 | 2.41% | 0.076% |
| 242 | 17.928 | 17.920 | 17.943 | VV | 456055     | 6032773  | 0.85% | 0.027% |
| 243 | 17.954 | 17.943 | 17.982 | VV | 472379     | 10476155 | 1.47% | 0.046% |
| 244 | 18.015 | 17.982 | 18.050 | VV | 531363     | 19006276 | 2.66% | 0.084% |
| 245 | 18.080 | 18.050 | 18.120 | VV | 550295     | 19665197 | 2.75% | 0.087% |
| 246 | 18.152 | 18.120 | 18.172 | VV | 459269     | 13119998 | 1.84% | 0.058% |

| rteres.txt |        |        |        |    |        |          |       |        |
|------------|--------|--------|--------|----|--------|----------|-------|--------|
| 247        | 18.189 | 18.172 | 18.199 | VV | 444801 | 6935855  | 0.97% | 0.031% |
| 248        | 18.226 | 18.199 | 18.271 | VV | 506250 | 19511866 | 2.73% | 0.086% |
| 249        | 18.280 | 18.271 | 18.295 | VV | 434731 | 5948896  | 0.83% | 0.026% |
| 250        | 18.336 | 18.295 | 18.345 | VV | 447597 | 13015047 | 1.82% | 0.057% |
| 251        | 18.357 | 18.345 | 18.404 | VV | 459056 | 14605252 | 2.05% | 0.064% |
| 252        | 18.427 | 18.404 | 18.458 | VV | 430649 | 13730701 | 1.92% | 0.060% |
| 253        | 18.485 | 18.458 | 18.509 | VV | 521912 | 14044141 | 1.97% | 0.062% |
| 254        | 18.546 | 18.509 | 18.590 | VV | 439478 | 20389323 | 2.86% | 0.090% |
| 255        | 18.629 | 18.590 | 18.644 | VV | 433301 | 13250475 | 1.86% | 0.058% |
| 256        | 18.660 | 18.644 | 18.674 | VV | 413710 | 7215341  | 1.01% | 0.032% |
| 257        | 18.689 | 18.674 | 18.704 | VV | 401829 | 7069771  | 0.99% | 0.031% |
| 258        | 18.764 | 18.704 | 18.803 | VV | 465902 | 24923584 | 3.49% | 0.110% |
| 259        | 18.829 | 18.803 | 18.844 | VV | 401644 | 9572325  | 1.34% | 0.042% |
| 260        | 18.869 | 18.844 | 18.898 | VV | 453676 | 13233459 | 1.85% | 0.058% |
| 261        | 18.939 | 18.898 | 18.977 | VV | 446233 | 19419772 | 2.72% | 0.086% |
| 262        | 18.988 | 18.977 | 19.019 | VV | 392986 | 9752554  | 1.37% | 0.043% |
| 263        | 19.032 | 19.019 | 19.053 | VV | 398246 | 7681430  | 1.08% | 0.034% |
| 264        | 19.062 | 19.053 | 19.075 | VV | 374779 | 4707622  | 0.66% | 0.021% |
| 265        | 19.085 | 19.075 | 19.092 | VV | 372172 | 3685954  | 0.52% | 0.016% |
| 266        | 19.148 | 19.092 | 19.204 | VV | 525336 | 27537040 | 3.86% | 0.121% |
| 267        | 19.244 | 19.204 | 19.279 | VV | 433818 | 17469777 | 2.45% | 0.077% |
| 268        | 19.304 | 19.279 | 19.314 | VV | 380380 | 7534715  | 1.06% | 0.033% |
| 269        | 19.323 | 19.314 | 19.333 | VV | 387829 | 4477699  | 0.63% | 0.020% |
| 270        | 19.347 | 19.333 | 19.385 | VV | 387419 | 11659440 | 1.63% | 0.051% |
| 271        | 19.408 | 19.385 | 19.430 | VV | 390256 | 9984693  | 1.40% | 0.044% |
| 272        | 19.447 | 19.430 | 19.469 | VV | 388242 | 8656848  | 1.21% | 0.038% |
| 273        | 19.539 | 19.469 | 19.552 | VV | 443333 | 19935635 | 2.79% | 0.088% |
| 274        | 19.559 | 19.552 | 19.586 | VV | 425811 | 8109392  | 1.14% | 0.036% |
| 275        | 19.620 | 19.586 | 19.649 | VV | 405984 | 14152048 | 1.98% | 0.062% |
| 276        | 19.656 | 19.649 | 19.682 | VV | 386274 | 7395339  | 1.04% | 0.033% |
| 277        | 19.705 | 19.682 | 19.715 | VV | 368365 | 7043096  | 0.99% | 0.031% |
| 278        | 19.730 | 19.715 | 19.770 | VV | 372096 | 12037085 | 1.69% | 0.053% |
| 279        | 19.777 | 19.770 | 19.789 | VV | 364018 | 3983019  | 0.56% | 0.018% |
| 280        | 19.808 | 19.789 | 19.834 | VV | 374004 | 9687134  | 1.36% | 0.043% |
| 281        | 19.859 | 19.834 | 19.869 | VV | 370808 | 7575286  | 1.06% | 0.033% |
| 282        | 19.921 | 19.869 | 19.947 | VV | 388738 | 17080795 | 2.39% | 0.075% |
| 283        | 19.976 | 19.947 | 19.995 | VV | 390874 | 10661619 | 1.49% | 0.047% |
| 284        | 20.044 | 19.995 | 20.095 | VV | 393650 | 21775356 | 3.05% | 0.096% |
| 285        | 20.114 | 20.095 | 20.129 | VV | 364333 | 7003572  | 0.98% | 0.031% |
| 286        | 20.145 | 20.129 | 20.180 | VV | 356917 | 10586264 | 1.48% | 0.047% |
| 287        | 20.221 | 20.180 | 20.239 | VV | 357285 | 11883624 | 1.66% | 0.052% |
| 288        | 20.251 | 20.239 | 20.273 | VV | 346852 | 6865693  | 0.96% | 0.030% |
| 289        | 20.325 | 20.273 | 20.355 | VV | 390373 | 17173410 | 2.41% | 0.076% |
| 290        | 20.363 | 20.355 | 20.385 | VV | 354098 | 5978876  | 0.84% | 0.026% |
| 291        | 20.431 | 20.385 | 20.506 | VV | 362523 | 23500528 | 3.29% | 0.104% |
| 292        | 20.517 | 20.506 | 20.542 | VV | 298305 | 6381085  | 0.89% | 0.028% |
| 293        | 20.554 | 20.542 | 20.584 | VV | 298862 | 7082072  | 0.99% | 0.031% |
| 294        | 20.592 | 20.584 | 20.622 | VV | 268795 | 5879395  | 0.82% | 0.026% |
| 295        | 20.646 | 20.622 | 20.657 | VV | 272988 | 5433305  | 0.76% | 0.024% |
| 296        | 20.667 | 20.657 | 20.690 | VV | 272051 | 5303683  | 0.74% | 0.023% |
| 297        | 20.699 | 20.690 | 20.709 | VV | 255141 | 2681006  | 0.38% | 0.012% |
| 298        | 20.723 | 20.709 | 20.742 | VV | 244122 | 4797314  | 0.67% | 0.021% |
| 299        | 20.751 | 20.742 | 20.769 | VV | 234123 | 3750944  | 0.53% | 0.017% |

|     |        |        |        |     |                                     |          |       |        |
|-----|--------|--------|--------|-----|-------------------------------------|----------|-------|--------|
|     |        |        |        |     | rteres.txt                          |          |       |        |
| 300 | 20.785 | 20.769 | 20.838 | VV  | 241690                              | 9438787  | 1.32% | 0.042% |
| 301 | 20.859 | 20.838 | 20.880 | VV  | 223798                              | 5480429  | 0.77% | 0.024% |
| 302 | 20.900 | 20.880 | 20.909 | VV  | 212399                              | 3555406  | 0.50% | 0.016% |
| 303 | 20.917 | 20.909 | 20.966 | VV  | 210996                              | 6795172  | 0.95% | 0.030% |
| 304 | 20.977 | 20.966 | 21.027 | VV  | 204372                              | 6832732  | 0.96% | 0.030% |
| 305 | 21.082 | 21.027 | 21.155 | VV  | 194775                              | 13490335 | 1.89% | 0.059% |
| 306 | 21.173 | 21.155 | 21.185 | VV  | 168532                              | 2884032  | 0.40% | 0.013% |
| 307 | 21.195 | 21.185 | 21.218 | VV  | 167022                              | 3110653  | 0.44% | 0.014% |
| 308 | 21.234 | 21.218 | 21.253 | VV  | 150414                              | 3087513  | 0.43% | 0.014% |
| 309 | 21.262 | 21.253 | 21.292 | VV  | 147501                              | 3260714  | 0.46% | 0.014% |
| 310 | 21.302 | 21.292 | 21.342 | VV  | 144891                              | 3948633  | 0.55% | 0.017% |
| 311 | 21.358 | 21.342 | 21.365 | VV  | 136647                              | 1854663  | 0.26% | 0.008% |
| 312 | 21.375 | 21.365 | 21.407 | VV  | 137987                              | 3300801  | 0.46% | 0.015% |
| 313 | 21.416 | 21.407 | 21.436 | VV  | 134464                              | 2195718  | 0.31% | 0.010% |
| 314 | 21.445 | 21.436 | 21.460 | VV  | 120950                              | 1676498  | 0.23% | 0.007% |
| 315 | 21.473 | 21.460 | 21.484 | VV  | 108067                              | 1506952  | 0.21% | 0.007% |
| 316 | 21.505 | 21.484 | 21.532 | VV  | 115478                              | 3202828  | 0.45% | 0.014% |
| 317 | 21.567 | 21.532 | 21.600 | VBA | 113723                              | 4282009  | 0.60% | 0.019% |
|     |        |        |        |     | Sum of corrected areas: 22696704463 |          |       |        |

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