

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_C\Data\FC112018AL\  
 Data File : FC037782.D  
 Signal(s) : FID1A.CH  
 Acq On : 20 Nov 2018 18:50  
 Sample : J5991-01  
 Misc :  
 ALS Vial : 10 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         | 3.025       | 3.002        | 3.052      | BV       | 145            | 2988         | 0.09%          | 0.007%        |
| 2         | 3.096       | 3.052        | 3.107      | PV       | 223            | 5076         | 0.16%          | 0.011%        |
| 3         | 3.132       | 3.107        | 3.202      | VV       | 5277           | 61439        | 1.91%          | 0.138%        |
| 4         | 3.249       | 3.202        | 3.265      | VV       | 645            | 9524         | 0.30%          | 0.021%        |
| 5         | 3.272       | 3.265        | 3.286      | VV       | 563            | 4565         | 0.14%          | 0.010%        |
| 6         | 3.309       | 3.286        | 3.318      | VV       | 518            | 6931         | 0.22%          | 0.016%        |
| 7         | 3.331       | 3.318        | 3.353      | VV       | 739            | 8755         | 0.27%          | 0.020%        |
| 8         | 3.364       | 3.353        | 3.375      | VV       | 289            | 2839         | 0.09%          | 0.006%        |
| 9         | 3.390       | 3.375        | 3.424      | VV       | 1709           | 24836        | 0.77%          | 0.056%        |
| 10        | 3.456       | 3.424        | 3.482      | VV       | 784            | 17357        | 0.54%          | 0.039%        |
| 11        | 3.501       | 3.482        | 3.538      | VV       | 3028           | 37493        | 1.16%          | 0.084%        |
| 12        | 3.571       | 3.538        | 3.604      | VV       | 1944           | 30950        | 0.96%          | 0.070%        |
| 13        | 3.617       | 3.604        | 3.643      | VV       | 670            | 8979         | 0.28%          | 0.020%        |
| 14        | 3.660       | 3.643        | 3.685      | VV       | 1344           | 12939        | 0.40%          | 0.029%        |
| 15        | 3.712       | 3.685        | 3.757      | PV       | 1621           | 33090        | 1.03%          | 0.075%        |
| 16        | 3.794       | 3.757        | 3.807      | VV       | 3777           | 47135        | 1.46%          | 0.106%        |
| 17        | 3.822       | 3.807        | 3.839      | VV       | 3928           | 41535        | 1.29%          | 0.094%        |
| 18        | 3.853       | 3.839        | 3.869      | VV       | 1428           | 18859        | 0.59%          | 0.042%        |
| 19        | 3.888       | 3.869        | 3.908      | VV       | 4105           | 45790        | 1.42%          | 0.103%        |
| 20        | 3.921       | 3.908        | 3.930      | VV       | 523            | 5933         | 0.18%          | 0.013%        |
| 21        | 3.968       | 3.930        | 3.979      | VV       | 2002           | 30681        | 0.95%          | 0.069%        |
| 22        | 3.994       | 3.979        | 4.017      | VV       | 2634           | 36160        | 1.12%          | 0.081%        |
| 23        | 4.028       | 4.017        | 4.042      | VV       | 1252           | 16034        | 0.50%          | 0.036%        |
| 24        | 4.050       | 4.042        | 4.070      | VV       | 958            | 12067        | 0.37%          | 0.027%        |
| 25        | 4.100       | 4.070        | 4.120      | VV       | 1689           | 30017        | 0.93%          | 0.068%        |
| 26        | 4.141       | 4.120        | 4.163      | VV       | 1567           | 30261        | 0.94%          | 0.068%        |
| 27        | 4.192       | 4.163        | 4.238      | VV       | 20990          | 237043       | 7.36%          | 0.534%        |
| 28        | 4.255       | 4.238        | 4.280      | VV       | 1454           | 28613        | 0.89%          | 0.064%        |
| 29        | 4.304       | 4.280        | 4.320      | VV       | 1179           | 25425        | 0.79%          | 0.057%        |
| 30        | 4.353       | 4.320        | 4.369      | VV       | 2209           | 46832        | 1.45%          | 0.105%        |
| 31        | 4.383       | 4.369        | 4.402      | VV       | 2430           | 41595        | 1.29%          | 0.094%        |
| 32        | 4.414       | 4.402        | 4.429      | VV       | 2115           | 29989        | 0.93%          | 0.068%        |
| 33        | 4.444       | 4.429        | 4.458      | VV       | 6678           | 70487        | 2.19%          | 0.159%        |
| 34        | 4.466       | 4.458        | 4.480      | VV       | 3340           | 36987        | 1.15%          | 0.083%        |
| 35        | 4.497       | 4.480        | 4.507      | VV       | 2790           | 38083        | 1.18%          | 0.086%        |
| 36        | 4.515       | 4.507        | 4.534      | VV       | 2780           | 34973        | 1.09%          | 0.079%        |

| rteres.txt |       |       |       |    |       |        |       |        |
|------------|-------|-------|-------|----|-------|--------|-------|--------|
| 37         | 4.564 | 4.534 | 4.575 | VV | 2533  | 48624  | 1.51% | 0.110% |
| 38         | 4.603 | 4.575 | 4.626 | VV | 3075  | 69361  | 2.15% | 0.156% |
| 39         | 4.650 | 4.626 | 4.684 | VV | 3069  | 63819  | 1.98% | 0.144% |
| 40         | 4.709 | 4.684 | 4.724 | VV | 1788  | 37187  | 1.15% | 0.084% |
|            |       |       |       |    |       |        |       |        |
| 41         | 4.742 | 4.724 | 4.760 | VV | 2383  | 38728  | 1.20% | 0.087% |
| 42         | 4.769 | 4.760 | 4.775 | VV | 1456  | 12185  | 0.38% | 0.027% |
| 43         | 4.798 | 4.775 | 4.811 | VV | 4275  | 58459  | 1.82% | 0.132% |
| 44         | 4.827 | 4.811 | 4.847 | VV | 4875  | 65066  | 2.02% | 0.147% |
| 45         | 4.867 | 4.847 | 4.906 | VV | 5332  | 96700  | 3.00% | 0.218% |
|            |       |       |       |    |       |        |       |        |
| 46         | 4.928 | 4.906 | 4.962 | VV | 5029  | 83455  | 2.59% | 0.188% |
| 47         | 4.989 | 4.962 | 4.999 | VV | 1606  | 31659  | 0.98% | 0.071% |
| 48         | 5.018 | 4.999 | 5.031 | VV | 2634  | 40076  | 1.24% | 0.090% |
| 49         | 5.041 | 5.031 | 5.055 | VV | 2378  | 31068  | 0.96% | 0.070% |
| 50         | 5.076 | 5.055 | 5.094 | VV | 2607  | 47322  | 1.47% | 0.107% |
|            |       |       |       |    |       |        |       |        |
| 51         | 5.107 | 5.094 | 5.122 | VV | 2225  | 33138  | 1.03% | 0.075% |
| 52         | 5.134 | 5.122 | 5.151 | VV | 2130  | 32405  | 1.01% | 0.073% |
| 53         | 5.167 | 5.151 | 5.180 | VV | 1750  | 29232  | 0.91% | 0.066% |
| 54         | 5.192 | 5.180 | 5.202 | VV | 1811  | 21827  | 0.68% | 0.049% |
| 55         | 5.224 | 5.202 | 5.252 | VV | 18177 | 224786 | 6.98% | 0.506% |
|            |       |       |       |    |       |        |       |        |
| 56         | 5.263 | 5.252 | 5.279 | VV | 2347  | 33509  | 1.04% | 0.075% |
| 57         | 5.292 | 5.279 | 5.303 | VV | 2003  | 27232  | 0.85% | 0.061% |
| 58         | 5.315 | 5.303 | 5.330 | VV | 1895  | 29441  | 0.91% | 0.066% |
| 59         | 5.343 | 5.330 | 5.354 | VV | 2034  | 25852  | 0.80% | 0.058% |
| 60         | 5.393 | 5.354 | 5.429 | VV | 3918  | 114150 | 3.55% | 0.257% |
|            |       |       |       |    |       |        |       |        |
| 61         | 5.440 | 5.429 | 5.451 | VV | 2013  | 24494  | 0.76% | 0.055% |
| 62         | 5.470 | 5.451 | 5.490 | VV | 2625  | 48229  | 1.50% | 0.109% |
| 63         | 5.509 | 5.490 | 5.547 | VV | 4255  | 90136  | 2.80% | 0.203% |
| 64         | 5.565 | 5.547 | 5.597 | VV | 2890  | 61876  | 1.92% | 0.139% |
| 65         | 5.609 | 5.597 | 5.619 | VV | 2091  | 25966  | 0.81% | 0.058% |
|            |       |       |       |    |       |        |       |        |
| 66         | 5.627 | 5.619 | 5.649 | VV | 2147  | 32428  | 1.01% | 0.073% |
| 67         | 5.673 | 5.649 | 5.690 | VV | 2408  | 44986  | 1.40% | 0.101% |
| 68         | 5.723 | 5.690 | 5.739 | VV | 2541  | 57025  | 1.77% | 0.128% |
| 69         | 5.777 | 5.739 | 5.798 | VV | 3591  | 93971  | 2.92% | 0.212% |
| 70         | 5.817 | 5.798 | 5.837 | VV | 3782  | 62080  | 1.93% | 0.140% |
|            |       |       |       |    |       |        |       |        |
| 71         | 5.860 | 5.837 | 5.887 | VV | 4775  | 86043  | 2.67% | 0.194% |
| 72         | 5.921 | 5.887 | 5.985 | VV | 4765  | 138503 | 4.30% | 0.312% |
| 73         | 6.003 | 5.985 | 6.015 | VV | 2337  | 36631  | 1.14% | 0.082% |
| 74         | 6.030 | 6.015 | 6.057 | VV | 2266  | 51142  | 1.59% | 0.115% |
| 75         | 6.078 | 6.057 | 6.099 | VV | 3161  | 61250  | 1.90% | 0.138% |
|            |       |       |       |    |       |        |       |        |
| 76         | 6.109 | 6.099 | 6.138 | VV | 2237  | 48167  | 1.50% | 0.108% |
| 77         | 6.162 | 6.138 | 6.177 | VV | 2016  | 43214  | 1.34% | 0.097% |
| 78         | 6.199 | 6.177 | 6.250 | VV | 11577 | 180968 | 5.62% | 0.408% |
| 79         | 6.255 | 6.250 | 6.274 | VV | 1802  | 22364  | 0.69% | 0.050% |
| 80         | 6.291 | 6.274 | 6.303 | VV | 1789  | 28886  | 0.90% | 0.065% |
|            |       |       |       |    |       |        |       |        |
| 81         | 6.317 | 6.303 | 6.327 | VV | 2014  | 25227  | 0.78% | 0.057% |
| 82         | 6.347 | 6.327 | 6.365 | VV | 6149  | 85859  | 2.67% | 0.193% |
| 83         | 6.376 | 6.365 | 6.402 | VV | 2951  | 48323  | 1.50% | 0.109% |
| 84         | 6.416 | 6.402 | 6.432 | VV | 2130  | 32924  | 1.02% | 0.074% |
| 85         | 6.446 | 6.432 | 6.460 | VV | 1780  | 28609  | 0.89% | 0.064% |
|            |       |       |       |    |       |        |       |        |
| 86         | 6.477 | 6.460 | 6.495 | VV | 1994  | 36553  | 1.14% | 0.082% |
| 87         | 6.513 | 6.495 | 6.537 | VV | 2687  | 53034  | 1.65% | 0.119% |
| 88         | 6.548 | 6.537 | 6.562 | VV | 2047  | 26709  | 0.83% | 0.060% |
| 89         | 6.579 | 6.562 | 6.620 | VV | 2073  | 54356  | 1.69% | 0.122% |

|     |       |       |       |    |            |        |       |        |
|-----|-------|-------|-------|----|------------|--------|-------|--------|
|     |       |       |       |    | rteres.txt |        |       |        |
| 90  | 6.641 | 6.620 | 6.665 | VV | 1793       | 43461  | 1.35% | 0.098% |
| 91  | 6.710 | 6.665 | 6.731 | VV | 3128       | 93132  | 2.89% | 0.210% |
| 92  | 6.752 | 6.731 | 6.777 | VV | 3318       | 57394  | 1.78% | 0.129% |
| 93  | 6.797 | 6.777 | 6.837 | VV | 3774       | 79807  | 2.48% | 0.180% |
| 94  | 6.853 | 6.837 | 6.872 | VV | 3333       | 47346  | 1.47% | 0.107% |
| 95  | 6.896 | 6.872 | 6.927 | VV | 5060       | 88612  | 2.75% | 0.200% |
| 96  | 6.949 | 6.927 | 6.966 | VV | 1793       | 36560  | 1.14% | 0.082% |
| 97  | 6.990 | 6.966 | 7.009 | VV | 2482       | 46508  | 1.44% | 0.105% |
| 98  | 7.021 | 7.009 | 7.047 | VV | 1719       | 36443  | 1.13% | 0.082% |
| 99  | 7.065 | 7.047 | 7.091 | VV | 1799       | 43860  | 1.36% | 0.099% |
| 100 | 7.117 | 7.091 | 7.156 | VV | 9157       | 145785 | 4.53% | 0.328% |
| 101 | 7.162 | 7.156 | 7.187 | VV | 1839       | 30500  | 0.95% | 0.069% |
| 102 | 7.237 | 7.187 | 7.259 | VV | 2014       | 76316  | 2.37% | 0.172% |
| 103 | 7.285 | 7.259 | 7.315 | VV | 3299       | 75210  | 2.34% | 0.169% |
| 104 | 7.328 | 7.315 | 7.346 | VV | 1645       | 27681  | 0.86% | 0.062% |
| 105 | 7.375 | 7.346 | 7.407 | VV | 1960       | 61773  | 1.92% | 0.139% |
| 106 | 7.445 | 7.407 | 7.460 | VV | 2692       | 67169  | 2.09% | 0.151% |
| 107 | 7.478 | 7.460 | 7.492 | VV | 3205       | 53743  | 1.67% | 0.121% |
| 108 | 7.530 | 7.492 | 7.554 | VV | 4430       | 126163 | 3.92% | 0.284% |
| 109 | 7.566 | 7.554 | 7.612 | VV | 2740       | 69925  | 2.17% | 0.157% |
| 110 | 7.634 | 7.612 | 7.654 | VV | 2309       | 42421  | 1.32% | 0.096% |
| 111 | 7.678 | 7.654 | 7.697 | VV | 2900       | 51414  | 1.60% | 0.116% |
| 112 | 7.708 | 7.697 | 7.718 | VV | 1680       | 18911  | 0.59% | 0.043% |
| 113 | 7.733 | 7.718 | 7.755 | VV | 2500       | 37629  | 1.17% | 0.085% |
| 114 | 7.767 | 7.755 | 7.782 | VV | 1312       | 18545  | 0.58% | 0.042% |
| 115 | 7.802 | 7.782 | 7.824 | VV | 4607       | 62165  | 1.93% | 0.140% |
| 116 | 7.844 | 7.824 | 7.870 | VV | 1887       | 38911  | 1.21% | 0.088% |
| 117 | 7.888 | 7.870 | 7.905 | VV | 1671       | 28445  | 0.88% | 0.064% |
| 118 | 7.936 | 7.905 | 7.954 | VV | 1599       | 40543  | 1.26% | 0.091% |
| 119 | 7.980 | 7.954 | 8.012 | VV | 7265       | 112851 | 3.50% | 0.254% |
| 120 | 8.027 | 8.012 | 8.054 | VV | 1774       | 35108  | 1.09% | 0.079% |
| 121 | 8.071 | 8.054 | 8.084 | VV | 1414       | 22906  | 0.71% | 0.052% |
| 122 | 8.122 | 8.084 | 8.145 | VV | 2444       | 59023  | 1.83% | 0.133% |
| 123 | 8.155 | 8.145 | 8.165 | VV | 1220       | 13292  | 0.41% | 0.030% |
| 124 | 8.175 | 8.165 | 8.200 | VV | 1314       | 22392  | 0.70% | 0.050% |
| 125 | 8.217 | 8.200 | 8.238 | VV | 1182       | 23599  | 0.73% | 0.053% |
| 126 | 8.270 | 8.238 | 8.292 | VV | 1119       | 29592  | 0.92% | 0.067% |
| 127 | 8.347 | 8.292 | 8.370 | VV | 1402       | 50402  | 1.57% | 0.114% |
| 128 | 8.421 | 8.370 | 8.442 | VV | 1838       | 58816  | 1.83% | 0.132% |
| 129 | 8.472 | 8.442 | 8.494 | VV | 1816       | 43750  | 1.36% | 0.099% |
| 130 | 8.513 | 8.494 | 8.535 | VV | 4233       | 58562  | 1.82% | 0.132% |
| 131 | 8.565 | 8.535 | 8.610 | VV | 1557       | 47844  | 1.49% | 0.108% |
| 132 | 8.659 | 8.610 | 8.670 | VV | 1045       | 30591  | 0.95% | 0.069% |
| 133 | 8.683 | 8.670 | 8.716 | VV | 1090       | 27018  | 0.84% | 0.061% |
| 134 | 8.730 | 8.716 | 8.752 | VV | 1048       | 20548  | 0.64% | 0.046% |
| 135 | 8.797 | 8.752 | 8.859 | VV | 4293       | 97395  | 3.02% | 0.219% |
| 136 | 8.877 | 8.859 | 8.898 | VV | 1076       | 20424  | 0.63% | 0.046% |
| 137 | 8.932 | 8.898 | 8.945 | VV | 1124       | 26676  | 0.83% | 0.060% |
| 138 | 8.985 | 8.945 | 9.064 | VV | 6190       | 143461 | 4.46% | 0.323% |
| 139 | 9.085 | 9.064 | 9.123 | VV | 683        | 20209  | 0.63% | 0.046% |
| 140 | 9.164 | 9.123 | 9.199 | VV | 1716       | 37509  | 1.16% | 0.084% |
| 141 | 9.211 | 9.199 | 9.230 | VV | 719        | 10830  | 0.34% | 0.024% |

| rteres.txt |        |        |        |    |      |       |       |        |  |
|------------|--------|--------|--------|----|------|-------|-------|--------|--|
| 142        | 9.244  | 9.230  | 9.280  | VV | 867  | 18968 | 0.59% | 0.043% |  |
| 143        | 9.298  | 9.280  | 9.312  | VV | 844  | 12008 | 0.37% | 0.027% |  |
| 144        | 9.327  | 9.312  | 9.337  | VV | 785  | 9083  | 0.28% | 0.020% |  |
| 145        | 9.346  | 9.337  | 9.389  | VV | 817  | 13698 | 0.43% | 0.031% |  |
|            |        |        |        |    |      |       |       |        |  |
| 146        | 9.397  | 9.389  | 9.431  | VV | 422  | 7604  | 0.24% | 0.017% |  |
| 147        | 9.444  | 9.431  | 9.467  | VV | 314  | 4845  | 0.15% | 0.011% |  |
| 148        | 9.490  | 9.467  | 9.505  | VV | 944  | 12654 | 0.39% | 0.028% |  |
| 149        | 9.519  | 9.505  | 9.549  | VV | 756  | 14734 | 0.46% | 0.033% |  |
| 150        | 9.570  | 9.549  | 9.611  | VV | 3607 | 56892 | 1.77% | 0.128% |  |
|            |        |        |        |    |      |       |       |        |  |
| 151        | 9.642  | 9.611  | 9.701  | VV | 672  | 23220 | 0.72% | 0.052% |  |
| 152        | 9.709  | 9.701  | 9.726  | VV | 202  | 2691  | 0.08% | 0.006% |  |
| 153        | 9.741  | 9.726  | 9.757  | VV | 294  | 2964  | 0.09% | 0.007% |  |
| 154        | 9.788  | 9.757  | 9.816  | VV | 296  | 6946  | 0.22% | 0.016% |  |
| 155        | 9.839  | 9.816  | 9.873  | VV | 179  | 4768  | 0.15% | 0.011% |  |
|            |        |        |        |    |      |       |       |        |  |
| 156        | 9.915  | 9.873  | 9.924  | PV | 362  | 6283  | 0.20% | 0.014% |  |
| 157        | 9.954  | 9.924  | 9.989  | VV | 1610 | 31234 | 0.97% | 0.070% |  |
| 158        | 10.005 | 9.989  | 10.018 | VV | 498  | 5478  | 0.17% | 0.012% |  |
| 159        | 10.046 | 10.018 | 10.080 | VV | 577  | 13202 | 0.41% | 0.030% |  |
| 160        | 10.097 | 10.080 | 10.122 | VV | 670  | 9127  | 0.28% | 0.021% |  |
|            |        |        |        |    |      |       |       |        |  |
| 161        | 10.136 | 10.122 | 10.162 | VV | 291  | 4032  | 0.13% | 0.009% |  |
| 162        | 10.232 | 10.162 | 10.254 | VV | 375  | 11320 | 0.35% | 0.025% |  |
| 163        | 10.300 | 10.254 | 10.350 | VV | 2340 | 69928 | 2.17% | 0.157% |  |
| 164        | 10.374 | 10.350 | 10.460 | VV | 2095 | 46523 | 1.44% | 0.105% |  |
| 165        | 10.487 | 10.460 | 10.505 | VV | 382  | 6072  | 0.19% | 0.014% |  |
|            |        |        |        |    |      |       |       |        |  |
| 166        | 10.521 | 10.505 | 10.544 | VV | 450  | 5914  | 0.18% | 0.013% |  |
| 167        | 10.560 | 10.544 | 10.586 | VV | 401  | 5651  | 0.18% | 0.013% |  |
| 168        | 10.624 | 10.586 | 10.632 | VV | 401  | 8051  | 0.25% | 0.018% |  |
| 169        | 10.640 | 10.632 | 10.657 | VV | 450  | 5221  | 0.16% | 0.012% |  |
| 170        | 10.687 | 10.657 | 10.739 | VV | 828  | 21548 | 0.67% | 0.049% |  |
|            |        |        |        |    |      |       |       |        |  |
| 171        | 10.757 | 10.739 | 10.787 | VV | 403  | 8306  | 0.26% | 0.019% |  |
| 172        | 10.806 | 10.787 | 10.845 | VV | 480  | 9798  | 0.30% | 0.022% |  |
| 173        | 10.936 | 10.845 | 10.969 | VV | 1873 | 41287 | 1.28% | 0.093% |  |
| 174        | 11.002 | 10.969 | 11.069 | VV | 2950 | 57908 | 1.80% | 0.130% |  |
| 175        | 11.091 | 11.069 | 11.130 | VV | 1802 | 28906 | 0.90% | 0.065% |  |
|            |        |        |        |    |      |       |       |        |  |
| 176        | 11.152 | 11.130 | 11.195 | VV | 377  | 7664  | 0.24% | 0.017% |  |
| 177        | 11.207 | 11.195 | 11.220 | VV | 236  | 1994  | 0.06% | 0.004% |  |
| 178        | 11.233 | 11.220 | 11.254 | VV | 237  | 3102  | 0.10% | 0.007% |  |
| 179        | 11.285 | 11.254 | 11.334 | VV | 620  | 16575 | 0.51% | 0.037% |  |
| 180        | 11.414 | 11.334 | 11.464 | PV | 1066 | 39624 | 1.23% | 0.089% |  |
|            |        |        |        |    |      |       |       |        |  |
| 181        | 11.476 | 11.464 | 11.517 | VV | 598  | 11660 | 0.36% | 0.026% |  |
| 182        | 11.587 | 11.517 | 11.618 | VV | 432  | 15525 | 0.48% | 0.035% |  |
| 183        | 11.668 | 11.618 | 11.722 | VV | 1859 | 43256 | 1.34% | 0.097% |  |
| 184        | 11.755 | 11.722 | 11.829 | VV | 548  | 22098 | 0.69% | 0.050% |  |
| 185        | 11.859 | 11.829 | 11.877 | VV | 371  | 5576  | 0.17% | 0.013% |  |
|            |        |        |        |    |      |       |       |        |  |
| 186        | 11.908 | 11.877 | 11.989 | VV | 637  | 24775 | 0.77% | 0.056% |  |
| 187        | 12.004 | 11.989 | 12.024 | VV | 459  | 7067  | 0.22% | 0.016% |  |
| 188        | 12.044 | 12.024 | 12.067 | VV | 477  | 10098 | 0.31% | 0.023% |  |
| 189        | 12.073 | 12.067 | 12.089 | VV | 459  | 4391  | 0.14% | 0.010% |  |
| 190        | 12.131 | 12.089 | 12.167 | VV | 536  | 16010 | 0.50% | 0.036% |  |
|            |        |        |        |    |      |       |       |        |  |
| 191        | 12.244 | 12.167 | 12.275 | VV | 1392 | 33006 | 1.03% | 0.074% |  |
| 192        | 12.303 | 12.275 | 12.353 | VV | 2938 | 46633 | 1.45% | 0.105% |  |
| 193        | 12.383 | 12.353 | 12.404 | VV | 592  | 11845 | 0.37% | 0.027% |  |
| 194        | 12.429 | 12.404 | 12.469 | VV | 852  | 18758 | 0.58% | 0.042% |  |

|     |        |        |        |    |            |         |         |        |
|-----|--------|--------|--------|----|------------|---------|---------|--------|
|     |        |        |        |    | rteres.txt |         |         |        |
| 195 | 12.486 | 12.469 | 12.504 | PV | 199        | 2153    | 0.07%   | 0.005% |
| 196 | 12.521 | 12.504 | 12.535 | VV | 166        | 1977    | 0.06%   | 0.004% |
| 197 | 12.569 | 12.535 | 12.604 | VV | 323        | 7466    | 0.23%   | 0.017% |
| 198 | 12.624 | 12.604 | 12.644 | VV | 246        | 3048    | 0.09%   | 0.007% |
| 199 | 12.666 | 12.644 | 12.681 | PV | 478        | 5922    | 0.18%   | 0.013% |
| 200 | 12.742 | 12.681 | 12.883 | VV | 253519     | 3219788 | 100.00% | 7.251% |
| 201 | 12.913 | 12.883 | 12.957 | VV | 2524       | 47935   | 1.49%   | 0.108% |
| 202 | 12.977 | 12.957 | 13.012 | VV | 473        | 12758   | 0.40%   | 0.029% |
| 203 | 13.024 | 13.012 | 13.042 | VV | 354        | 5778    | 0.18%   | 0.013% |
| 204 | 13.050 | 13.042 | 13.097 | VV | 473        | 5749    | 0.18%   | 0.013% |
| 205 | 13.146 | 13.097 | 13.169 | PV | 537        | 13809   | 0.43%   | 0.031% |
| 206 | 13.176 | 13.169 | 13.202 | VV | 569        | 7501    | 0.23%   | 0.017% |
| 207 | 13.215 | 13.202 | 13.235 | VV | 361        | 4186    | 0.13%   | 0.009% |
| 208 | 13.261 | 13.235 | 13.282 | VV | 371        | 5389    | 0.17%   | 0.012% |
| 209 | 13.293 | 13.282 | 13.300 | VV | 268        | 2578    | 0.08%   | 0.006% |
| 210 | 13.324 | 13.300 | 13.347 | VV | 698        | 12993   | 0.40%   | 0.029% |
| 211 | 13.365 | 13.347 | 13.388 | VV | 735        | 11903   | 0.37%   | 0.027% |
| 212 | 13.415 | 13.388 | 13.431 | VV | 596        | 11052   | 0.34%   | 0.025% |
| 213 | 13.466 | 13.431 | 13.477 | VV | 1069       | 19830   | 0.62%   | 0.045% |
| 214 | 13.496 | 13.477 | 13.530 | VV | 2580       | 39895   | 1.24%   | 0.090% |
| 215 | 13.543 | 13.530 | 13.564 | VV | 394        | 5066    | 0.16%   | 0.011% |
| 216 | 13.577 | 13.564 | 13.599 | VV | 290        | 3734    | 0.12%   | 0.008% |
| 217 | 13.635 | 13.599 | 13.662 | PV | 380        | 7394    | 0.23%   | 0.017% |
| 218 | 13.726 | 13.662 | 13.766 | VV | 799        | 23622   | 0.73%   | 0.053% |
| 219 | 13.789 | 13.766 | 13.820 | VV | 406        | 8154    | 0.25%   | 0.018% |
| 220 | 13.880 | 13.820 | 13.900 | VV | 912        | 21063   | 0.65%   | 0.047% |
| 221 | 13.916 | 13.900 | 13.950 | VV | 782        | 18079   | 0.56%   | 0.041% |
| 222 | 13.975 | 13.950 | 14.025 | VV | 1778       | 28060   | 0.87%   | 0.063% |
| 223 | 14.056 | 14.025 | 14.105 | PV | 2912       | 55274   | 1.72%   | 0.124% |
| 224 | 14.120 | 14.105 | 14.135 | VV | 567        | 9110    | 0.28%   | 0.021% |
| 225 | 14.149 | 14.135 | 14.160 | VV | 492        | 5976    | 0.19%   | 0.013% |
| 226 | 14.216 | 14.160 | 14.242 | VV | 738        | 23456   | 0.73%   | 0.053% |
| 227 | 14.284 | 14.242 | 14.322 | VV | 949        | 30547   | 0.95%   | 0.069% |
| 228 | 14.341 | 14.322 | 14.359 | VV | 589        | 8250    | 0.26%   | 0.019% |
| 229 | 14.376 | 14.359 | 14.403 | PV | 357        | 6692    | 0.21%   | 0.015% |
| 230 | 14.443 | 14.403 | 14.465 | VV | 822        | 19754   | 0.61%   | 0.044% |
| 231 | 14.476 | 14.465 | 14.525 | VV | 694        | 14769   | 0.46%   | 0.033% |
| 232 | 14.541 | 14.525 | 14.562 | VV | 662        | 9516    | 0.30%   | 0.021% |
| 233 | 14.594 | 14.562 | 14.627 | VV | 3940       | 64136   | 1.99%   | 0.144% |
| 234 | 14.651 | 14.627 | 14.679 | VV | 659        | 16894   | 0.52%   | 0.038% |
| 235 | 14.690 | 14.679 | 14.709 | VV | 651        | 9627    | 0.30%   | 0.022% |
| 236 | 14.742 | 14.709 | 14.764 | VV | 763        | 14048   | 0.44%   | 0.032% |
| 237 | 14.783 | 14.764 | 14.800 | VV | 477        | 7483    | 0.23%   | 0.017% |
| 238 | 14.836 | 14.800 | 14.847 | VV | 654        | 13033   | 0.40%   | 0.029% |
| 239 | 14.882 | 14.847 | 14.894 | VV | 902        | 17519   | 0.54%   | 0.039% |
| 240 | 14.900 | 14.894 | 14.920 | VV | 687        | 8844    | 0.27%   | 0.020% |
| 241 | 14.932 | 14.920 | 14.952 | VV | 622        | 7040    | 0.22%   | 0.016% |
| 242 | 14.977 | 14.952 | 14.987 | PV | 760        | 10882   | 0.34%   | 0.025% |
| 243 | 15.015 | 14.987 | 15.037 | VV | 1624       | 29917   | 0.93%   | 0.067% |
| 244 | 15.053 | 15.037 | 15.069 | VV | 625        | 8578    | 0.27%   | 0.019% |
| 245 | 15.112 | 15.069 | 15.152 | VV | 4861       | 89865   | 2.79%   | 0.202% |
| 246 | 15.162 | 15.152 | 15.188 | VV | 1140       | 19497   | 0.61%   | 0.044% |

|     |        |        |        |    |            |        |        |        |
|-----|--------|--------|--------|----|------------|--------|--------|--------|
|     |        |        |        |    | rteres.txt |        |        |        |
| 247 | 15.211 | 15.188 | 15.240 | VV | 1512       | 25823  | 0.80%  | 0.058% |
| 248 | 15.251 | 15.240 | 15.261 | VV | 603        | 5664   | 0.18%  | 0.013% |
| 249 | 15.308 | 15.261 | 15.324 | VV | 1151       | 27122  | 0.84%  | 0.061% |
| 250 | 15.336 | 15.324 | 15.365 | VV | 1028       | 21290  | 0.66%  | 0.048% |
| 251 | 15.374 | 15.365 | 15.385 | VV | 914        | 9413   | 0.29%  | 0.021% |
| 252 | 15.424 | 15.385 | 15.459 | VV | 1773       | 55732  | 1.73%  | 0.126% |
| 253 | 15.496 | 15.459 | 15.512 | VV | 1456       | 35355  | 1.10%  | 0.080% |
| 254 | 15.540 | 15.512 | 15.551 | VV | 1276       | 23898  | 0.74%  | 0.054% |
| 255 | 15.610 | 15.551 | 15.635 | VV | 8431       | 154893 | 4.81%  | 0.349% |
| 256 | 15.647 | 15.635 | 15.686 | VV | 1991       | 47367  | 1.47%  | 0.107% |
| 257 | 15.780 | 15.686 | 15.813 | VV | 2922       | 146947 | 4.56%  | 0.331% |
| 258 | 15.863 | 15.813 | 15.896 | VV | 3059       | 117061 | 3.64%  | 0.264% |
| 259 | 15.917 | 15.896 | 15.948 | VV | 3623       | 93480  | 2.90%  | 0.211% |
| 260 | 15.959 | 15.948 | 15.999 | VV | 3114       | 77058  | 2.39%  | 0.174% |
| 261 | 16.041 | 15.999 | 16.059 | VV | 3344       | 92075  | 2.86%  | 0.207% |
| 262 | 16.091 | 16.059 | 16.140 | VV | 12276      | 269289 | 8.36%  | 0.606% |
| 263 | 16.165 | 16.140 | 16.182 | VV | 4045       | 87957  | 2.73%  | 0.198% |
| 264 | 16.215 | 16.182 | 16.232 | VV | 4573       | 119430 | 3.71%  | 0.269% |
| 265 | 16.273 | 16.232 | 16.307 | VV | 4805       | 189067 | 5.87%  | 0.426% |
| 266 | 16.328 | 16.307 | 16.352 | VV | 5084       | 119442 | 3.71%  | 0.269% |
| 267 | 16.390 | 16.352 | 16.410 | VV | 5131       | 149950 | 4.66%  | 0.338% |
| 268 | 16.430 | 16.410 | 16.439 | VV | 4973       | 83111  | 2.58%  | 0.187% |
| 269 | 16.460 | 16.439 | 16.475 | VV | 5220       | 103191 | 3.20%  | 0.232% |
| 270 | 16.518 | 16.475 | 16.529 | VV | 6471       | 167554 | 5.20%  | 0.377% |
| 271 | 16.555 | 16.529 | 16.580 | VV | 22528      | 398097 | 12.36% | 0.897% |
| 272 | 16.589 | 16.580 | 16.609 | VV | 7605       | 112228 | 3.49%  | 0.253% |
| 273 | 16.621 | 16.609 | 16.649 | VV | 6144       | 133932 | 4.16%  | 0.302% |
| 274 | 16.661 | 16.649 | 16.672 | VV | 5742       | 77062  | 2.39%  | 0.174% |
| 275 | 16.722 | 16.672 | 16.734 | VV | 7745       | 248176 | 7.71%  | 0.559% |
| 276 | 16.760 | 16.734 | 16.792 | VV | 9025       | 266131 | 8.27%  | 0.599% |
| 277 | 16.844 | 16.792 | 16.869 | VV | 9023       | 341862 | 10.62% | 0.770% |
| 278 | 16.888 | 16.869 | 16.897 | VV | 8304       | 129139 | 4.01%  | 0.291% |
| 279 | 16.927 | 16.897 | 16.957 | VV | 12331      | 322564 | 10.02% | 0.726% |
| 280 | 17.006 | 16.957 | 17.035 | VV | 25005      | 593128 | 18.42% | 1.336% |
| 281 | 17.050 | 17.035 | 17.062 | VV | 9311       | 141714 | 4.40%  | 0.319% |
| 282 | 17.079 | 17.062 | 17.095 | VV | 9693       | 186051 | 5.78%  | 0.419% |
| 283 | 17.107 | 17.095 | 17.134 | VV | 10164      | 212560 | 6.60%  | 0.479% |
| 284 | 17.156 | 17.134 | 17.214 | VV | 9426       | 409587 | 12.72% | 0.922% |
| 285 | 17.242 | 17.214 | 17.251 | VV | 8621       | 178879 | 5.56%  | 0.403% |
| 286 | 17.266 | 17.251 | 17.282 | VV | 9205       | 158984 | 4.94%  | 0.358% |
| 287 | 17.328 | 17.282 | 17.355 | VV | 11270      | 437382 | 13.58% | 0.985% |
| 288 | 17.391 | 17.355 | 17.400 | VV | 12484      | 306956 | 9.53%  | 0.691% |
| 289 | 17.439 | 17.400 | 17.489 | VV | 25092      | 757235 | 23.52% | 1.705% |
| 290 | 17.548 | 17.489 | 17.567 | VV | 21824      | 615474 | 19.12% | 1.386% |
| 291 | 17.577 | 17.567 | 17.637 | VV | 14142      | 485356 | 15.07% | 1.093% |
| 292 | 17.655 | 17.637 | 17.677 | VV | 10865      | 232892 | 7.23%  | 0.524% |
| 293 | 17.754 | 17.677 | 17.790 | VV | 13097      | 774240 | 24.05% | 1.744% |
| 294 | 17.807 | 17.790 | 17.832 | VV | 11206      | 260324 | 8.09%  | 0.586% |
| 295 | 17.862 | 17.832 | 17.886 | VV | 23946      | 526558 | 16.35% | 1.186% |
| 296 | 17.912 | 17.886 | 17.944 | VV | 21886      | 560330 | 17.40% | 1.262% |
| 297 | 17.952 | 17.944 | 17.971 | VV | 12019      | 190686 | 5.92%  | 0.429% |
| 298 | 17.997 | 17.971 | 18.023 | VV | 12241      | 353126 | 10.97% | 0.795% |
| 299 | 18.075 | 18.023 | 18.099 | VV | 12079      | 514378 | 15.98% | 1.158% |

|     |        |        |        |    |                         |         |          |        |
|-----|--------|--------|--------|----|-------------------------|---------|----------|--------|
|     |        |        |        |    | rteres.txt              |         |          |        |
| 300 | 18.133 | 18.099 | 18.155 | VV | 12816                   | 402894  | 12.51%   | 0.907% |
| 301 | 18.173 | 18.155 | 18.194 | VV | 12323                   | 266196  | 8.27%    | 0.599% |
| 302 | 18.209 | 18.194 | 18.221 | VV | 11871                   | 190323  | 5.91%    | 0.429% |
| 303 | 18.270 | 18.221 | 18.310 | VV | 23315                   | 813357  | 25.26%   | 1.832% |
| 304 | 18.336 | 18.310 | 18.355 | VV | 21156                   | 449851  | 13.97%   | 1.013% |
| 305 | 18.386 | 18.355 | 18.430 | VV | 19579                   | 699192  | 21.72%   | 1.575% |
| 306 | 18.440 | 18.430 | 18.452 | VV | 13558                   | 176809  | 5.49%    | 0.398% |
| 307 | 18.472 | 18.452 | 18.495 | VV | 14631                   | 350672  | 10.89%   | 0.790% |
| 308 | 18.516 | 18.495 | 18.535 | VV | 15700                   | 343901  | 10.68%   | 0.774% |
| 309 | 18.553 | 18.535 | 18.562 | VV | 14320                   | 220881  | 6.86%    | 0.497% |
| 310 | 18.574 | 18.562 | 18.595 | VV | 14167                   | 273794  | 8.50%    | 0.617% |
| 311 | 18.611 | 18.595 | 18.633 | VV | 14856                   | 317641  | 9.87%    | 0.715% |
| 312 | 18.665 | 18.633 | 18.702 | VV | 27661                   | 776809  | 24.13%   | 1.749% |
| 313 | 18.733 | 18.702 | 18.769 | VV | 18174                   | 634826  | 19.72%   | 1.430% |
| 314 | 18.787 | 18.769 | 18.805 | VV | 15573                   | 326992  | 10.16%   | 0.736% |
| 315 | 18.842 | 18.805 | 18.874 | VV | 18704                   | 705590  | 21.91%   | 1.589% |
| 316 | 18.894 | 18.874 | 18.909 | VV | 17142                   | 342103  | 10.63%   | 0.770% |
| 317 | 18.916 | 18.909 | 18.931 | VV | 17536                   | 222902  | 6.92%    | 0.502% |
| 318 | 18.950 | 18.931 | 18.967 | VV | 17763                   | 365862  | 11.36%   | 0.824% |
| 319 | 18.981 | 18.967 | 18.994 | VV | 17111                   | 269560  | 8.37%    | 0.607% |
| 320 | 19.050 | 18.994 | 19.111 | VV | 29808                   | 1435632 | 44.59%   | 3.233% |
| 321 | 19.138 | 19.111 | 19.182 | VV | 21595                   | 852962  | 26.49%   | 1.921% |
| 322 | 19.197 | 19.182 | 19.210 | VV | 19326                   | 323897  | 10.06%   | 0.729% |
| 323 | 19.238 | 19.210 | 19.255 | VV | 20599                   | 545666  | 16.95%   | 1.229% |
| 324 | 19.278 | 19.255 | 19.297 | VV | 21928                   | 517936  | 16.09%   | 1.166% |
| 325 | 19.354 | 19.297 | 19.387 | VV | 23459                   | 1175553 | 36.51%   | 2.647% |
| 326 | 19.430 | 19.387 | 19.490 | VV | 29221                   | 1559381 | 48.43%   | 3.512% |
| 327 | 19.516 | 19.490 | 19.524 | VV | 23708                   | 466758  | 14.50%   | 1.051% |
| 328 | 19.554 | 19.524 | 19.587 | VV | 26330                   | 956391  | 29.70%   | 2.154% |
| 329 | 19.657 | 19.587 | 19.676 | VV | 28821                   | 1388772 | 43.13%   | 3.128% |
| 330 | 19.697 | 19.676 | 19.714 | VV | 28472                   | 626648  | 19.46%   | 1.411% |
| 331 | 19.733 | 19.714 | 19.743 | VV | 28110                   | 478919  | 14.87%   | 1.079% |
| 332 | 19.790 | 19.743 | 19.815 | VV | 33603                   | 1304843 | 40.53%   | 2.939% |
| 333 | 19.830 | 19.815 | 19.854 | VV | 34094                   | 731583  | 22.72%   | 1.648% |
|     |        |        |        |    | Sum of corrected areas: |         | 44403071 |        |

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