

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_D\Data\FD111419AL\  
 Data File : FD031495.D  
 Signal(s) : FID2B.CH  
 Acq On : 14 Nov 2019 20:19  
 Sample : K5827-01  
 Misc :  
 ALS Vial : 63 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_D\methods\Alaphatic EPH 110519.M  
 Title : GC Extractables

Signal : FID2B.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         | 3.337       | 3.295        | 3.373      | BV       | 24327          | 241621       | 0.91%          | 0.016%        |
| 2         | 3.385       | 3.373        | 3.416      | VV       | 1024           | 13721        | 0.05%          | 0.001%        |
| 3         | 3.437       | 3.416        | 3.450      | PV       | 4926           | 42869        | 0.16%          | 0.003%        |
| 4         | 3.461       | 3.450        | 3.476      | VV       | 3871           | 38170        | 0.14%          | 0.003%        |
| 5         | 3.487       | 3.476        | 3.501      | VV       | 2213           | 22678        | 0.09%          | 0.002%        |
| 6         | 3.515       | 3.501        | 3.527      | VV       | 2752           | 27094        | 0.10%          | 0.002%        |
| 7         | 3.539       | 3.527        | 3.565      | VV       | 2723           | 35028        | 0.13%          | 0.002%        |
| 8         | 3.604       | 3.565        | 3.634      | VV       | 9421           | 166733       | 0.63%          | 0.011%        |
| 9         | 3.651       | 3.634        | 3.681      | VV       | 6955           | 117005       | 0.44%          | 0.008%        |
| 10        | 3.709       | 3.681        | 3.727      | VV       | 29976          | 314846       | 1.18%          | 0.021%        |
| 11        | 3.744       | 3.727        | 3.758      | VV       | 13728          | 158307       | 0.59%          | 0.011%        |
| 12        | 3.781       | 3.758        | 3.811      | VV       | 12195          | 212925       | 0.80%          | 0.014%        |
| 13        | 3.828       | 3.811        | 3.863      | VV       | 39530          | 505571       | 1.90%          | 0.034%        |
| 14        | 3.877       | 3.863        | 3.894      | VV       | 12626          | 119091       | 0.45%          | 0.008%        |
| 15        | 3.913       | 3.894        | 3.966      | VV       | 20382          | 369513       | 1.39%          | 0.025%        |
| 16        | 4.004       | 3.966        | 4.019      | VV       | 82365          | 992637       | 3.72%          | 0.066%        |
| 17        | 4.031       | 4.019        | 4.052      | VV       | 46775          | 468965       | 1.76%          | 0.031%        |
| 18        | 4.098       | 4.052        | 4.123      | VV       | 43066          | 626531       | 2.35%          | 0.042%        |
| 19        | 4.165       | 4.123        | 4.192      | VV       | 68632          | 778476       | 2.92%          | 0.052%        |
| 20        | 4.208       | 4.192        | 4.233      | VV       | 27363          | 411605       | 1.54%          | 0.027%        |
| 21        | 4.243       | 4.233        | 4.255      | VV       | 15782          | 171747       | 0.64%          | 0.011%        |
| 22        | 4.265       | 4.255        | 4.287      | VV       | 15893          | 166116       | 0.62%          | 0.011%        |
| 23        | 4.318       | 4.287        | 4.335      | VV       | 13520          | 215227       | 0.81%          | 0.014%        |
| 24        | 4.356       | 4.335        | 4.377      | VV       | 42454          | 496207       | 1.86%          | 0.033%        |
| 25        | 4.402       | 4.377        | 4.425      | VV       | 246627         | 2330748      | 8.74%          | 0.155%        |
| 26        | 4.443       | 4.425        | 4.458      | VV       | 42434          | 412411       | 1.55%          | 0.027%        |
| 27        | 4.474       | 4.458        | 4.490      | VV       | 62216          | 601604       | 2.26%          | 0.040%        |
| 28        | 4.505       | 4.490        | 4.533      | VV       | 33298          | 445578       | 1.67%          | 0.030%        |
| 29        | 4.551       | 4.533        | 4.561      | VV       | 23106          | 269942       | 1.01%          | 0.018%        |
| 30        | 4.570       | 4.561        | 4.586      | VV       | 20825          | 276115       | 1.04%          | 0.018%        |
| 31        | 4.601       | 4.586        | 4.613      | VV       | 23697          | 297652       | 1.12%          | 0.020%        |
| 32        | 4.627       | 4.613        | 4.637      | VV       | 23283          | 295626       | 1.11%          | 0.020%        |
| 33        | 4.655       | 4.637        | 4.672      | VV       | 105541         | 1091535      | 4.09%          | 0.072%        |
| 34        | 4.684       | 4.672        | 4.697      | VV       | 37848          | 404824       | 1.52%          | 0.027%        |
| 35        | 4.709       | 4.697        | 4.719      | VV       | 30408          | 353611       | 1.33%          | 0.023%        |
| 36        | 4.732       | 4.719        | 4.743      | VV       | 48680          | 506068       | 1.90%          | 0.034%        |

|    |       |       |       |    | rteres  |          |        |        |
|----|-------|-------|-------|----|---------|----------|--------|--------|
| 37 | 4.752 | 4.743 | 4.762 | VV | 45119   | 417428   | 1.57%  | 0.028% |
| 38 | 4.778 | 4.762 | 4.795 | VV | 120025  | 1213376  | 4.55%  | 0.080% |
| 39 | 4.815 | 4.795 | 4.837 | VV | 107752  | 1491323  | 5.59%  | 0.099% |
| 40 | 4.853 | 4.837 | 4.893 | VV | 78709   | 1361817  | 5.11%  | 0.090% |
| 41 | 4.928 | 4.893 | 4.977 | VV | 103315  | 1643328  | 6.16%  | 0.109% |
| 42 | 5.009 | 4.977 | 5.022 | VV | 68230   | 902443   | 3.38%  | 0.060% |
| 43 | 5.040 | 5.022 | 5.066 | VV | 163118  | 2500641  | 9.38%  | 0.166% |
| 44 | 5.081 | 5.066 | 5.103 | VV | 97108   | 1562005  | 5.86%  | 0.104% |
| 45 | 5.116 | 5.103 | 5.128 | VV | 101924  | 1038707  | 3.89%  | 0.069% |
| 46 | 5.141 | 5.128 | 5.184 | VV | 104850  | 1541976  | 5.78%  | 0.102% |
| 47 | 5.236 | 5.184 | 5.247 | VV | 40699   | 934238   | 3.50%  | 0.062% |
| 48 | 5.258 | 5.247 | 5.271 | VV | 45069   | 544321   | 2.04%  | 0.036% |
| 49 | 5.306 | 5.271 | 5.313 | VV | 84435   | 1410270  | 5.29%  | 0.094% |
| 50 | 5.327 | 5.313 | 5.346 | VV | 149372  | 1754804  | 6.58%  | 0.116% |
| 51 | 5.357 | 5.346 | 5.371 | VV | 37839   | 538480   | 2.02%  | 0.036% |
| 52 | 5.386 | 5.371 | 5.411 | VV | 70835   | 1038771  | 3.89%  | 0.069% |
| 53 | 5.437 | 5.411 | 5.457 | VV | 491107  | 5390090  | 20.21% | 0.358% |
| 54 | 5.468 | 5.457 | 5.490 | VV | 105368  | 1332014  | 4.99%  | 0.088% |
| 55 | 5.508 | 5.490 | 5.544 | VV | 44879   | 1073580  | 4.03%  | 0.071% |
| 56 | 5.569 | 5.544 | 5.600 | VV | 44386   | 1203812  | 4.51%  | 0.080% |
| 57 | 5.623 | 5.600 | 5.665 | VV | 157596  | 3355591  | 12.58% | 0.223% |
| 58 | 5.684 | 5.665 | 5.695 | VV | 63165   | 945252   | 3.54%  | 0.063% |
| 59 | 5.718 | 5.695 | 5.754 | VV | 267871  | 5299784  | 19.87% | 0.352% |
| 60 | 5.772 | 5.754 | 5.793 | VV | 131205  | 2238327  | 8.39%  | 0.148% |
| 61 | 5.806 | 5.793 | 5.822 | VV | 140100  | 1643942  | 6.16%  | 0.109% |
| 62 | 5.843 | 5.822 | 5.869 | VV | 115889  | 2141007  | 8.03%  | 0.142% |
| 63 | 5.889 | 5.869 | 5.911 | VV | 157244  | 2138861  | 8.02%  | 0.142% |
| 64 | 5.939 | 5.911 | 5.962 | VV | 169726  | 3302876  | 12.38% | 0.219% |
| 65 | 5.984 | 5.962 | 6.018 | VV | 219288  | 4641394  | 17.40% | 0.308% |
| 66 | 6.033 | 6.018 | 6.052 | VV | 176539  | 2291220  | 8.59%  | 0.152% |
| 67 | 6.076 | 6.052 | 6.097 | VV | 268231  | 3665170  | 13.74% | 0.243% |
| 68 | 6.135 | 6.097 | 6.152 | VV | 243676  | 5653393  | 21.20% | 0.375% |
| 69 | 6.171 | 6.152 | 6.184 | VV | 117904  | 2018981  | 7.57%  | 0.134% |
| 70 | 6.201 | 6.184 | 6.232 | VV | 195403  | 4015606  | 15.06% | 0.266% |
| 71 | 6.254 | 6.232 | 6.278 | VV | 159533  | 3583045  | 13.43% | 0.238% |
| 72 | 6.298 | 6.278 | 6.316 | VV | 162996  | 2755863  | 10.33% | 0.183% |
| 73 | 6.350 | 6.316 | 6.385 | VV | 223423  | 5628085  | 21.10% | 0.373% |
| 74 | 6.417 | 6.385 | 6.461 | VV | 524770  | 8953361  | 33.57% | 0.594% |
| 75 | 6.504 | 6.461 | 6.515 | VV | 158970  | 3764564  | 14.11% | 0.250% |
| 76 | 6.531 | 6.515 | 6.547 | VV | 200943  | 3170408  | 11.89% | 0.210% |
| 77 | 6.567 | 6.547 | 6.588 | VV | 545930  | 7234619  | 27.12% | 0.480% |
| 78 | 6.611 | 6.588 | 6.628 | VV | 302112  | 5018311  | 18.81% | 0.333% |
| 79 | 6.638 | 6.628 | 6.653 | VV | 198838  | 2391061  | 8.96%  | 0.159% |
| 80 | 6.665 | 6.653 | 6.675 | VV | 156690  | 1881659  | 7.05%  | 0.125% |
| 81 | 6.694 | 6.675 | 6.714 | VV | 347548  | 4975145  | 18.65% | 0.330% |
| 82 | 6.742 | 6.714 | 6.762 | VV | 198989  | 5083988  | 19.06% | 0.337% |
| 83 | 6.773 | 6.762 | 6.788 | VV | 202706  | 2672310  | 10.02% | 0.177% |
| 84 | 6.817 | 6.788 | 6.842 | VV | 553154  | 8978176  | 33.66% | 0.596% |
| 85 | 6.852 | 6.842 | 6.863 | VV | 143769  | 1723570  | 6.46%  | 0.114% |
| 86 | 6.887 | 6.863 | 6.901 | VV | 223405  | 3999981  | 15.00% | 0.265% |
| 87 | 6.934 | 6.901 | 6.957 | VV | 410956  | 9483375  | 35.56% | 0.629% |
| 88 | 6.977 | 6.957 | 6.999 | VV | 562849  | 8215982  | 30.80% | 0.545% |
| 89 | 7.043 | 6.999 | 7.063 | VV | 1300250 | 22298519 | 83.60% | 1.479% |

|     |       |       |       |    |         |          |         |        |
|-----|-------|-------|-------|----|---------|----------|---------|--------|
|     |       |       |       |    | rteres  |          |         |        |
| 90  | 7.078 | 7.063 | 7.100 | VV | 424026  | 6304992  | 23.64%  | 0.418% |
| 91  | 7.121 | 7.100 | 7.155 | VV | 653132  | 11741102 | 44.02%  | 0.779% |
| 92  | 7.176 | 7.155 | 7.202 | VV | 862376  | 11792079 | 44.21%  | 0.782% |
| 93  | 7.222 | 7.202 | 7.241 | VV | 262646  | 4757523  | 17.84%  | 0.316% |
| 94  | 7.267 | 7.241 | 7.285 | VV | 205572  | 4968893  | 18.63%  | 0.330% |
| 95  | 7.342 | 7.285 | 7.366 | VV | 1020367 | 20802974 | 77.99%  | 1.380% |
| 96  | 7.385 | 7.366 | 7.415 | VV | 305319  | 7986278  | 29.94%  | 0.530% |
| 97  | 7.427 | 7.415 | 7.448 | VV | 304538  | 5275776  | 19.78%  | 0.350% |
| 98  | 7.462 | 7.448 | 7.488 | VV | 239484  | 5301329  | 19.88%  | 0.352% |
| 99  | 7.513 | 7.488 | 7.544 | VV | 551638  | 11323331 | 42.45%  | 0.751% |
| 100 | 7.565 | 7.544 | 7.586 | VV | 354732  | 6520794  | 24.45%  | 0.433% |
| 101 | 7.605 | 7.586 | 7.619 | VV | 222275  | 3858061  | 14.46%  | 0.256% |
| 102 | 7.651 | 7.619 | 7.690 | VV | 953147  | 17683552 | 66.30%  | 1.173% |
| 103 | 7.705 | 7.690 | 7.739 | VV | 313334  | 7389266  | 27.70%  | 0.490% |
| 104 | 7.763 | 7.739 | 7.780 | VV | 359101  | 6981055  | 26.17%  | 0.463% |
| 105 | 7.798 | 7.780 | 7.812 | VV | 422385  | 6898787  | 25.86%  | 0.458% |
| 106 | 7.821 | 7.812 | 7.838 | VV | 372631  | 4998828  | 18.74%  | 0.332% |
| 107 | 7.863 | 7.838 | 7.883 | VV | 475690  | 8795063  | 32.97%  | 0.583% |
| 108 | 7.915 | 7.883 | 7.936 | VV | 721693  | 14567176 | 54.62%  | 0.966% |
| 109 | 7.965 | 7.936 | 7.993 | VV | 609965  | 13994509 | 52.47%  | 0.928% |
| 110 | 8.034 | 7.993 | 8.075 | VV | 1277625 | 26672302 | 100.00% | 1.769% |
| 111 | 8.091 | 8.075 | 8.107 | VV | 275067  | 4837302  | 18.14%  | 0.321% |
| 112 | 8.142 | 8.107 | 8.156 | VV | 1095025 | 18921289 | 70.94%  | 1.255% |
| 113 | 8.169 | 8.156 | 8.188 | VV | 998611  | 12575202 | 47.15%  | 0.834% |
| 114 | 8.214 | 8.188 | 8.237 | VV | 1173001 | 18418142 | 69.05%  | 1.222% |
| 115 | 8.256 | 8.237 | 8.272 | VV | 420754  | 7249130  | 27.18%  | 0.481% |
| 116 | 8.302 | 8.272 | 8.339 | VV | 622730  | 16933150 | 63.49%  | 1.123% |
| 117 | 8.374 | 8.339 | 8.387 | VV | 358295  | 8476660  | 31.78%  | 0.562% |
| 118 | 8.406 | 8.387 | 8.421 | VV | 454891  | 7419658  | 27.82%  | 0.492% |
| 119 | 8.431 | 8.421 | 8.471 | VV | 376296  | 9597411  | 35.98%  | 0.637% |
| 120 | 8.517 | 8.471 | 8.546 | VV | 654378  | 16240283 | 60.89%  | 1.077% |
| 121 | 8.579 | 8.546 | 8.595 | VV | 377377  | 9521748  | 35.70%  | 0.632% |
| 122 | 8.627 | 8.595 | 8.641 | VV | 448675  | 10374232 | 38.90%  | 0.688% |
| 123 | 8.659 | 8.641 | 8.685 | VV | 653361  | 12336056 | 46.25%  | 0.818% |
| 124 | 8.748 | 8.685 | 8.771 | VV | 905245  | 26327183 | 98.71%  | 1.746% |
| 125 | 8.799 | 8.771 | 8.816 | VV | 521848  | 9967518  | 37.37%  | 0.661% |
| 126 | 8.854 | 8.816 | 8.873 | VV | 804654  | 15646272 | 58.66%  | 1.038% |
| 127 | 8.888 | 8.873 | 8.907 | VV | 444087  | 7428145  | 27.85%  | 0.493% |
| 128 | 8.922 | 8.907 | 8.941 | VV | 375585  | 6207339  | 23.27%  | 0.412% |
| 129 | 8.974 | 8.941 | 8.991 | VV | 462015  | 10948842 | 41.05%  | 0.726% |
| 130 | 9.033 | 8.991 | 9.051 | VV | 1352661 | 26102657 | 97.86%  | 1.732% |
| 131 | 9.064 | 9.051 | 9.098 | VV | 756441  | 12940545 | 48.52%  | 0.858% |
| 132 | 9.115 | 9.098 | 9.139 | VV | 350874  | 7422072  | 27.83%  | 0.492% |
| 133 | 9.179 | 9.139 | 9.195 | VV | 594045  | 13193702 | 49.47%  | 0.875% |
| 134 | 9.210 | 9.195 | 9.243 | VV | 584456  | 10390106 | 38.95%  | 0.689% |
| 135 | 9.260 | 9.243 | 9.275 | VV | 308129  | 5313746  | 19.92%  | 0.352% |
| 136 | 9.314 | 9.275 | 9.338 | VV | 622924  | 14809528 | 55.52%  | 0.982% |
| 137 | 9.357 | 9.338 | 9.368 | VV | 293798  | 5160230  | 19.35%  | 0.342% |
| 138 | 9.401 | 9.368 | 9.412 | VV | 539939  | 10647656 | 39.92%  | 0.706% |
| 139 | 9.417 | 9.412 | 9.437 | VV | 506588  | 6414648  | 24.05%  | 0.426% |
| 140 | 9.477 | 9.437 | 9.508 | VV | 640402  | 19660779 | 73.71%  | 1.304% |
| 141 | 9.537 | 9.508 | 9.556 | VV | 481050  | 11617351 | 43.56%  | 0.771% |

| rteres |        |        |        |    |         |          |        |        |
|--------|--------|--------|--------|----|---------|----------|--------|--------|
| 142    | 9.581  | 9.556  | 9.620  | VV | 579947  | 18451560 | 69.18% | 1.224% |
| 143    | 9.635  | 9.620  | 9.660  | VV | 332089  | 7023223  | 26.33% | 0.466% |
| 144    | 9.673  | 9.660  | 9.693  | VV | 268142  | 5076008  | 19.03% | 0.337% |
| 145    | 9.717  | 9.693  | 9.737  | VV | 408805  | 8978025  | 33.66% | 0.596% |
| 146    | 9.763  | 9.737  | 9.782  | VV | 460063  | 10428884 | 39.10% | 0.692% |
| 147    | 9.808  | 9.782  | 9.855  | VV | 1338049 | 25451775 | 95.42% | 1.688% |
| 148    | 9.873  | 9.855  | 9.891  | VV | 332576  | 6796870  | 25.48% | 0.451% |
| 149    | 9.910  | 9.891  | 9.948  | VV | 384946  | 10554168 | 39.57% | 0.700% |
| 150    | 9.977  | 9.948  | 10.005 | VV | 411629  | 10571429 | 39.63% | 0.701% |
| 151    | 10.013 | 10.005 | 10.026 | VV | 258251  | 3090439  | 11.59% | 0.205% |
| 152    | 10.034 | 10.026 | 10.051 | VV | 252172  | 3643851  | 13.66% | 0.242% |
| 153    | 10.077 | 10.051 | 10.107 | VV | 287834  | 8280939  | 31.05% | 0.549% |
| 154    | 10.137 | 10.107 | 10.166 | VV | 428608  | 12196867 | 45.73% | 0.809% |
| 155    | 10.195 | 10.166 | 10.220 | VV | 774212  | 16612174 | 62.28% | 1.102% |
| 156    | 10.244 | 10.220 | 10.256 | VV | 509250  | 8743704  | 32.78% | 0.580% |
| 157    | 10.274 | 10.256 | 10.297 | VV | 612807  | 11564272 | 43.36% | 0.767% |
| 158    | 10.316 | 10.297 | 10.364 | VV | 645732  | 16899289 | 63.36% | 1.121% |
| 159    | 10.405 | 10.364 | 10.428 | VV | 451875  | 14026108 | 52.59% | 0.930% |
| 160    | 10.453 | 10.428 | 10.501 | VV | 392919  | 14961516 | 56.09% | 0.992% |
| 161    | 10.544 | 10.501 | 10.575 | VV | 1160414 | 24788241 | 92.94% | 1.644% |
| 162    | 10.616 | 10.575 | 10.640 | VV | 975798  | 22345717 | 83.78% | 1.482% |
| 163    | 10.657 | 10.640 | 10.707 | VV | 359892  | 12126737 | 45.47% | 0.804% |
| 164    | 10.753 | 10.707 | 10.766 | VV | 318426  | 9931542  | 37.24% | 0.659% |
| 165    | 10.792 | 10.766 | 10.835 | VV | 629514  | 15202140 | 57.00% | 1.008% |
| 166    | 10.867 | 10.835 | 10.899 | VV | 385081  | 12624020 | 47.33% | 0.837% |
| 167    | 10.929 | 10.899 | 10.946 | VV | 407081  | 9557849  | 35.83% | 0.634% |
| 168    | 10.955 | 10.946 | 10.974 | VV | 345997  | 5366729  | 20.12% | 0.356% |
| 169    | 10.995 | 10.974 | 11.025 | VV | 407541  | 10218681 | 38.31% | 0.678% |
| 170    | 11.045 | 11.025 | 11.061 | VV | 367291  | 6589778  | 24.71% | 0.437% |
| 171    | 11.073 | 11.061 | 11.077 | VV | 306712  | 2931711  | 10.99% | 0.194% |
| 172    | 11.099 | 11.077 | 11.120 | VV | 405295  | 8515131  | 31.92% | 0.565% |
| 173    | 11.144 | 11.120 | 11.166 | VV | 381066  | 8885335  | 33.31% | 0.589% |
| 174    | 11.183 | 11.166 | 11.211 | VV | 371613  | 8569199  | 32.13% | 0.568% |
| 175    | 11.244 | 11.211 | 11.292 | VV | 982116  | 22901866 | 85.86% | 1.519% |
| 176    | 11.318 | 11.292 | 11.361 | VV | 665455  | 19510052 | 73.15% | 1.294% |
| 177    | 11.383 | 11.361 | 11.408 | VV | 288452  | 7161581  | 26.85% | 0.475% |
| 178    | 11.441 | 11.408 | 11.463 | VV | 490857  | 10463220 | 39.23% | 0.694% |
| 179    | 11.476 | 11.463 | 11.497 | VV | 260128  | 5090360  | 19.08% | 0.338% |
| 180    | 11.556 | 11.497 | 11.574 | VV | 636263  | 17043149 | 63.90% | 1.131% |
| 181    | 11.592 | 11.574 | 11.607 | VV | 550357  | 8670713  | 32.51% | 0.575% |
| 182    | 11.624 | 11.607 | 11.655 | VV | 709958  | 12145150 | 45.53% | 0.806% |
| 183    | 11.674 | 11.655 | 11.702 | VV | 322958  | 7462596  | 27.98% | 0.495% |
| 184    | 11.736 | 11.702 | 11.754 | VV | 400542  | 9767187  | 36.62% | 0.648% |
| 185    | 11.770 | 11.754 | 11.821 | VV | 358633  | 10618317 | 39.81% | 0.704% |
| 186    | 11.841 | 11.821 | 11.859 | VV | 241203  | 4892325  | 18.34% | 0.325% |
| 187    | 11.909 | 11.859 | 11.962 | VV | 843577  | 23451038 | 87.92% | 1.556% |
| 188    | 11.996 | 11.962 | 12.022 | VV | 332429  | 9224897  | 34.59% | 0.612% |
| 189    | 12.031 | 12.022 | 12.048 | VV | 208721  | 3123744  | 11.71% | 0.207% |
| 190    | 12.058 | 12.048 | 12.073 | VV | 193561  | 2799937  | 10.50% | 0.186% |
| 191    | 12.096 | 12.073 | 12.110 | VV | 307905  | 5310405  | 19.91% | 0.352% |
| 192    | 12.130 | 12.110 | 12.163 | VV | 398904  | 9364484  | 35.11% | 0.621% |
| 193    | 12.178 | 12.163 | 12.191 | VV | 234245  | 3817368  | 14.31% | 0.253% |
| 194    | 12.204 | 12.191 | 12.221 | VV | 246421  | 4017129  | 15.06% | 0.266% |

| rteres |        |        |        |    |        |          |        |        |
|--------|--------|--------|--------|----|--------|----------|--------|--------|
| 195    | 12.236 | 12.221 | 12.252 | VV | 254617 | 4105776  | 15.39% | 0.272% |
| 196    | 12.279 | 12.252 | 12.296 | VV | 250042 | 6055481  | 22.70% | 0.402% |
| 197    | 12.314 | 12.296 | 12.344 | VV | 272951 | 6902468  | 25.88% | 0.458% |
| 198    | 12.372 | 12.344 | 12.415 | VV | 325342 | 9992141  | 37.46% | 0.663% |
| 199    | 12.426 | 12.415 | 12.431 | VV | 159515 | 1512692  | 5.67%  | 0.100% |
| 200    | 12.484 | 12.431 | 12.503 | VV | 338776 | 9483862  | 35.56% | 0.629% |
| 201    | 12.541 | 12.503 | 12.578 | VV | 633304 | 13910881 | 52.15% | 0.923% |
| 202    | 12.596 | 12.578 | 12.660 | VV | 214796 | 7965004  | 29.86% | 0.528% |
| 203    | 12.694 | 12.660 | 12.704 | VV | 147322 | 3679443  | 13.79% | 0.244% |
| 204    | 12.723 | 12.704 | 12.764 | VV | 194342 | 5215635  | 19.55% | 0.346% |
| 205    | 12.788 | 12.764 | 12.808 | VV | 183137 | 3925828  | 14.72% | 0.260% |
| 206    | 12.847 | 12.808 | 12.871 | VV | 151539 | 5334477  | 20.00% | 0.354% |
| 207    | 12.891 | 12.871 | 12.913 | VV | 159640 | 3475667  | 13.03% | 0.231% |
| 208    | 12.927 | 12.913 | 12.944 | VV | 147179 | 2456356  | 9.21%  | 0.163% |
| 209    | 12.980 | 12.944 | 13.008 | VV | 419456 | 8019591  | 30.07% | 0.532% |
| 210    | 13.028 | 13.008 | 13.086 | VV | 144660 | 5369935  | 20.13% | 0.356% |
| 211    | 13.097 | 13.086 | 13.116 | VV | 106497 | 1733229  | 6.50%  | 0.115% |
| 212    | 13.145 | 13.116 | 13.171 | VV | 357338 | 6259776  | 23.47% | 0.415% |
| 213    | 13.180 | 13.171 | 13.198 | VV | 114388 | 1773620  | 6.65%  | 0.118% |
| 214    | 13.217 | 13.198 | 13.267 | VV | 134600 | 4159359  | 15.59% | 0.276% |
| 215    | 13.282 | 13.267 | 13.297 | VV | 91758  | 1486730  | 5.57%  | 0.099% |
| 216    | 13.314 | 13.297 | 13.337 | VV | 90094  | 1855803  | 6.96%  | 0.123% |
| 217    | 13.367 | 13.337 | 13.398 | VV | 126152 | 3448994  | 12.93% | 0.229% |
| 218    | 13.412 | 13.398 | 13.462 | VV | 86943  | 2940481  | 11.02% | 0.195% |
| 219    | 13.485 | 13.462 | 13.502 | VV | 75569  | 1664111  | 6.24%  | 0.110% |
| 220    | 13.519 | 13.502 | 13.546 | VV | 77205  | 1731361  | 6.49%  | 0.115% |
| 221    | 13.568 | 13.546 | 13.593 | VV | 70420  | 1709914  | 6.41%  | 0.113% |
| 222    | 13.619 | 13.593 | 13.655 | VV | 59848  | 2088268  | 7.83%  | 0.139% |
| 223    | 13.663 | 13.655 | 13.691 | VV | 53300  | 1050080  | 3.94%  | 0.070% |
| 224    | 13.725 | 13.691 | 13.762 | VV | 176476 | 3509544  | 13.16% | 0.233% |
| 225    | 13.782 | 13.762 | 13.801 | VV | 50373  | 1075100  | 4.03%  | 0.071% |
| 226    | 13.810 | 13.801 | 13.836 | VV | 41927  | 827698   | 3.10%  | 0.055% |
| 227    | 13.846 | 13.836 | 13.898 | VV | 37203  | 1260534  | 4.73%  | 0.084% |
| 228    | 13.942 | 13.898 | 13.979 | VV | 44588  | 1790890  | 6.71%  | 0.119% |
| 229    | 13.986 | 13.979 | 14.003 | VV | 32556  | 447639   | 1.68%  | 0.030% |
| 230    | 14.019 | 14.003 | 14.040 | VV | 32508  | 659437   | 2.47%  | 0.044% |
| 231    | 14.054 | 14.040 | 14.066 | VV | 29865  | 445065   | 1.67%  | 0.030% |
| 232    | 14.084 | 14.066 | 14.102 | VV | 36935  | 680067   | 2.55%  | 0.045% |
| 233    | 14.113 | 14.102 | 14.119 | VV | 29153  | 301682   | 1.13%  | 0.020% |
| 234    | 14.134 | 14.119 | 14.169 | VV | 32058  | 806400   | 3.02%  | 0.053% |
| 235    | 14.192 | 14.169 | 14.249 | VV | 24778  | 1029621  | 3.86%  | 0.068% |
| 236    | 14.282 | 14.249 | 14.313 | VV | 72105  | 1371991  | 5.14%  | 0.091% |
| 237    | 14.336 | 14.313 | 14.363 | VV | 22767  | 599875   | 2.25%  | 0.040% |
| 238    | 14.373 | 14.363 | 14.392 | VV | 18368  | 310262   | 1.16%  | 0.021% |
| 239    | 14.404 | 14.392 | 14.423 | VV | 17245  | 306516   | 1.15%  | 0.020% |
| 240    | 14.435 | 14.423 | 14.458 | VV | 16435  | 307054   | 1.15%  | 0.020% |
| 241    | 14.492 | 14.458 | 14.547 | VV | 17749  | 785062   | 2.94%  | 0.052% |
| 242    | 14.561 | 14.547 | 14.585 | VV | 14189  | 284921   | 1.07%  | 0.019% |
| 243    | 14.599 | 14.585 | 14.615 | VV | 12197  | 202595   | 0.76%  | 0.013% |
| 244    | 14.630 | 14.615 | 14.651 | VV | 12882  | 249225   | 0.93%  | 0.017% |
| 245    | 14.675 | 14.651 | 14.700 | VV | 12510  | 317337   | 1.19%  | 0.021% |
| 246    | 14.713 | 14.700 | 14.735 | VV | 9319   | 187873   | 0.70%  | 0.012% |

| rteres |        |        |        |    |       |        |       |        |
|--------|--------|--------|--------|----|-------|--------|-------|--------|
| 247    | 14.746 | 14.735 | 14.767 | VV | 8506  | 157145 | 0.59% | 0.010% |
| 248    | 14.819 | 14.767 | 14.851 | VV | 28157 | 636953 | 2.39% | 0.042% |
| 249    | 14.865 | 14.851 | 14.879 | VV | 7399  | 118657 | 0.44% | 0.008% |
| 250    | 14.897 | 14.879 | 14.941 | VV | 7794  | 250498 | 0.94% | 0.017% |
|        |        |        |        |    |       |        |       |        |
| 251    | 14.952 | 14.941 | 14.991 | VV | 6123  | 168668 | 0.63% | 0.011% |
| 252    | 15.011 | 14.991 | 15.036 | VV | 6042  | 151579 | 0.57% | 0.010% |
| 253    | 15.054 | 15.036 | 15.108 | VV | 5953  | 216633 | 0.81% | 0.014% |
| 254    | 15.153 | 15.108 | 15.165 | VV | 4952  | 150001 | 0.56% | 0.010% |
| 255    | 15.194 | 15.165 | 15.307 | VV | 35127 | 747944 | 2.80% | 0.050% |
|        |        |        |        |    |       |        |       |        |
| 256    | 15.336 | 15.307 | 15.368 | VV | 13855 | 244345 | 0.92% | 0.016% |
| 257    | 15.410 | 15.368 | 15.493 | VV | 5809  | 222292 | 0.83% | 0.015% |
| 258    | 15.519 | 15.493 | 15.528 | VV | 2321  | 40855  | 0.15% | 0.003% |
| 259    | 15.543 | 15.528 | 15.619 | VV | 2320  | 107136 | 0.40% | 0.007% |
| 260    | 15.654 | 15.619 | 15.683 | VV | 2021  | 61867  | 0.23% | 0.004% |
|        |        |        |        |    |       |        |       |        |
| 261    | 15.710 | 15.683 | 15.786 | VV | 2432  | 85433  | 0.32% | 0.006% |
| 262    | 15.834 | 15.786 | 15.950 | VV | 10730 | 201494 | 0.76% | 0.013% |
| 263    | 16.019 | 15.950 | 16.045 | VV | 767   | 31593  | 0.12% | 0.002% |
| 264    | 16.058 | 16.045 | 16.101 | VV | 529   | 14498  | 0.05% | 0.001% |
| 265    | 16.142 | 16.101 | 16.175 | VV | 955   | 28864  | 0.11% | 0.002% |
|        |        |        |        |    |       |        |       |        |
| 266    | 16.203 | 16.175 | 16.245 | VV | 3617  | 65618  | 0.25% | 0.004% |
| 267    | 16.315 | 16.245 | 16.348 | VV | 11147 | 161891 | 0.61% | 0.011% |
| 268    | 16.392 | 16.348 | 16.411 | VV | 1180  | 19715  | 0.07% | 0.001% |
| 269    | 16.440 | 16.411 | 16.495 | VV | 8072  | 115688 | 0.43% | 0.008% |
| 270    | 16.567 | 16.495 | 16.640 | VV | 1459  | 53981  | 0.20% | 0.004% |
|        |        |        |        |    |       |        |       |        |
| 271    | 16.670 | 16.640 | 16.734 | VV | 1262  | 34781  | 0.13% | 0.002% |
| 272    | 16.778 | 16.734 | 16.803 | VV | 12325 | 172157 | 0.65% | 0.011% |
| 273    | 16.828 | 16.803 | 16.879 | VV | 9186  | 131858 | 0.49% | 0.009% |
| 274    | 16.910 | 16.879 | 16.921 | VV | 213   | 3144   | 0.01% | 0.000% |
| 275    | 16.933 | 16.921 | 16.951 | VV | 158   | 1733   | 0.01% | 0.000% |
|        |        |        |        |    |       |        |       |        |
| 276    | 16.969 | 16.951 | 16.999 | PV | 167   | 2605   | 0.01% | 0.000% |
| 277    | 17.014 | 16.999 | 17.031 | PV | 170   | 1787   | 0.01% | 0.000% |
| 278    | 17.067 | 17.031 | 17.088 | VV | 488   | 6785   | 0.03% | 0.000% |
| 279    | 17.112 | 17.088 | 17.124 | VV | 949   | 11654  | 0.04% | 0.001% |
| 280    | 17.143 | 17.124 | 17.183 | VV | 1551  | 27921  | 0.10% | 0.002% |
|        |        |        |        |    |       |        |       |        |
| 281    | 17.226 | 17.183 | 17.291 | VV | 13302 | 191068 | 0.72% | 0.013% |
| 282    | 17.310 | 17.291 | 17.325 | VV | 466   | 5762   | 0.02% | 0.000% |
| 283    | 17.341 | 17.325 | 17.362 | VV | 295   | 4813   | 0.02% | 0.000% |
| 284    | 17.390 | 17.362 | 17.410 | VV | 317   | 7284   | 0.03% | 0.000% |
| 285    | 17.451 | 17.410 | 17.471 | VV | 345   | 6533   | 0.02% | 0.000% |
|        |        |        |        |    |       |        |       |        |
| 286    | 17.502 | 17.471 | 17.533 | VV | 742   | 14761  | 0.06% | 0.001% |
| 287    | 17.555 | 17.533 | 17.571 | VV | 373   | 6163   | 0.02% | 0.000% |
| 288    | 17.614 | 17.571 | 17.629 | VV | 1048  | 21097  | 0.08% | 0.001% |
| 289    | 17.659 | 17.629 | 17.695 | VV | 13086 | 189380 | 0.71% | 0.013% |
| 290    | 17.747 | 17.695 | 17.775 | VV | 1254  | 28744  | 0.11% | 0.002% |
|        |        |        |        |    |       |        |       |        |
| 291    | 17.815 | 17.775 | 17.825 | VV | 592   | 16338  | 0.06% | 0.001% |
| 292    | 17.880 | 17.825 | 17.907 | VV | 1076  | 34920  | 0.13% | 0.002% |
| 293    | 17.930 | 17.907 | 17.955 | VV | 1151  | 22776  | 0.09% | 0.002% |
| 294    | 18.014 | 17.955 | 18.045 | VV | 19923 | 383105 | 1.44% | 0.025% |
| 295    | 18.080 | 18.045 | 18.145 | VV | 12841 | 259635 | 0.97% | 0.017% |
|        |        |        |        |    |       |        |       |        |
| 296    | 18.177 | 18.145 | 18.203 | VV | 2002  | 49934  | 0.19% | 0.003% |
| 297    | 18.217 | 18.203 | 18.241 | VV | 1341  | 23041  | 0.09% | 0.002% |
| 298    | 18.288 | 18.241 | 18.311 | VV | 1037  | 33141  | 0.12% | 0.002% |
| 299    | 18.344 | 18.311 | 18.370 | VV | 1484  | 38447  | 0.14% | 0.003% |

|     |        |        |        |     |                         |            |       |        |
|-----|--------|--------|--------|-----|-------------------------|------------|-------|--------|
|     |        |        |        |     | rteres                  |            |       |        |
| 300 | 18.389 | 18.370 | 18.418 | VV  | 1140                    | 26389      | 0.10% | 0.002% |
| 301 | 18.439 | 18.418 | 18.447 | VV  | 1320                    | 19595      | 0.07% | 0.001% |
| 302 | 18.486 | 18.447 | 18.541 | VV  | 9798                    | 209862     | 0.79% | 0.014% |
| 303 | 18.589 | 18.541 | 18.621 | VV  | 2335                    | 77772      | 0.29% | 0.005% |
| 304 | 18.643 | 18.621 | 18.663 | VV  | 1548                    | 35198      | 0.13% | 0.002% |
| 305 | 18.683 | 18.663 | 18.718 | VV  | 1317                    | 40182      | 0.15% | 0.003% |
| 306 | 18.743 | 18.718 | 18.766 | VV  | 1820                    | 41248      | 0.15% | 0.003% |
| 307 | 18.837 | 18.766 | 18.863 | VV  | 13495                   | 277952     | 1.04% | 0.018% |
| 308 | 18.884 | 18.863 | 18.926 | VV  | 8290                    | 175278     | 0.66% | 0.012% |
| 309 | 18.950 | 18.926 | 18.967 | VV  | 2368                    | 51515      | 0.19% | 0.003% |
| 310 | 18.980 | 18.967 | 18.994 | VV  | 2287                    | 34477      | 0.13% | 0.002% |
| 311 | 19.014 | 18.994 | 19.038 | VV  | 2415                    | 54767      | 0.21% | 0.004% |
| 312 | 19.077 | 19.038 | 19.101 | VV  | 2687                    | 79932      | 0.30% | 0.005% |
| 313 | 19.127 | 19.101 | 19.150 | VV  | 1993                    | 52800      | 0.20% | 0.004% |
| 314 | 19.171 | 19.150 | 19.201 | VV  | 1930                    | 49783      | 0.19% | 0.003% |
| 315 | 19.266 | 19.201 | 19.295 | VV  | 5078                    | 145896     | 0.55% | 0.010% |
| 316 | 19.367 | 19.295 | 19.398 | VV  | 3468                    | 153047     | 0.57% | 0.010% |
| 317 | 19.431 | 19.398 | 19.481 | VV  | 2557                    | 110296     | 0.41% | 0.007% |
| 318 | 19.546 | 19.481 | 19.576 | VV  | 2832                    | 138330     | 0.52% | 0.009% |
| 319 | 19.635 | 19.576 | 19.707 | VV  | 5624                    | 279647     | 1.05% | 0.019% |
| 320 | 19.736 | 19.707 | 19.754 | VV  | 3313                    | 82335      | 0.31% | 0.005% |
| 321 | 19.784 | 19.754 | 19.811 | VV  | 4168                    | 123728     | 0.46% | 0.008% |
| 322 | 19.828 | 19.811 | 19.841 | VV  | 3524                    | 60557      | 0.23% | 0.004% |
| 323 | 19.853 | 19.841 | 19.867 | VV  | 3472                    | 54103      | 0.20% | 0.004% |
| 324 | 19.893 | 19.867 | 19.939 | VV  | 4191                    | 159246     | 0.60% | 0.011% |
| 325 | 20.001 | 19.939 | 20.032 | VV  | 5354                    | 219566     | 0.82% | 0.015% |
| 326 | 20.047 | 20.032 | 20.077 | VV  | 3799                    | 98465      | 0.37% | 0.007% |
| 327 | 20.110 | 20.077 | 20.130 | VV  | 4008                    | 120719     | 0.45% | 0.008% |
| 328 | 20.161 | 20.130 | 20.201 | VV  | 7288                    | 215418     | 0.81% | 0.014% |
| 329 | 20.231 | 20.201 | 20.253 | VV  | 4475                    | 133866     | 0.50% | 0.009% |
| 330 | 20.355 | 20.253 | 20.419 | VV  | 6722                    | 517452     | 1.94% | 0.034% |
| 331 | 20.456 | 20.419 | 20.498 | VV  | 5860                    | 257758     | 0.97% | 0.017% |
| 332 | 20.520 | 20.498 | 20.605 | VV  | 5546                    | 325003     | 1.22% | 0.022% |
| 333 | 20.613 | 20.605 | 20.617 | VV  | 4836                    | 37108      | 0.14% | 0.002% |
| 334 | 20.635 | 20.617 | 20.668 | VV  | 5127                    | 145418     | 0.55% | 0.010% |
| 335 | 20.720 | 20.668 | 20.793 | VV  | 5790                    | 363274     | 1.36% | 0.024% |
| 336 | 20.825 | 20.793 | 20.909 | VV  | 4729                    | 307561     | 1.15% | 0.020% |
| 337 | 20.915 | 20.909 | 20.988 | VV  | 4145                    | 190776     | 0.72% | 0.013% |
| 338 | 21.037 | 20.988 | 21.068 | VV  | 4163                    | 193758     | 0.73% | 0.013% |
| 339 | 21.075 | 21.068 | 21.082 | VV  | 3970                    | 32449      | 0.12% | 0.002% |
| 340 | 21.125 | 21.082 | 21.225 | VV  | 4855                    | 363956     | 1.36% | 0.024% |
| 341 | 21.256 | 21.225 | 21.325 | VV  | 3960                    | 222681     | 0.83% | 0.015% |
| 342 | 21.356 | 21.325 | 21.397 | VV  | 3522                    | 147180     | 0.55% | 0.010% |
| 343 | 21.414 | 21.397 | 21.444 | VV  | 3383                    | 94307      | 0.35% | 0.006% |
| 344 | 21.455 | 21.444 | 21.475 | VV  | 3303                    | 59932      | 0.22% | 0.004% |
| 345 | 21.481 | 21.475 | 21.521 | VV  | 3227                    | 88382      | 0.33% | 0.006% |
| 346 | 21.586 | 21.521 | 21.701 | VBA | 3695                    | 370369     | 1.39% | 0.025% |
|     |        |        |        |     | Sum of corrected areas: | 1507494328 |       |        |

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