

Instrument :  
FID\_F  
ClientSampleId :  
HAM-WC-L-VB01

rteres

## Area Percent Report

Manual Integrations  
APPROVED

Ankita  
9/3/2020 10:42:42 AM

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF090220\  
Data File : FF007445.D  
Signal(s) : FID2B.ch  
Acq On : 02 Sep 2020 14:37  
Sample : L3858-02  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF090120.M  
Title :

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         | 2.350       | 2.321        | 2.414      | BH       | 481            | 3690         | 0.01%          | 0.000%        |
| 2         | 2.423       | 2.414        | 2.463      | PH       | 51             | -2292        | -0.00%         | -0.000%       |
| 3         | 2.476       | 2.463        | 2.486      | PH       | 421            | 1643         | 0.00%          | 0.000%        |
| 4         | 2.505       | 2.486        | 2.558      | PH       | 4573           | 51832        | 0.10%          | 0.001%        |
| 5         | 2.577       | 2.558        | 2.597      | PH       | 1859           | 16948        | 0.03%          | 0.000%        |
| 6         | 2.624       | 2.597        | 2.634      | HH       | 4300           | 44031        | 0.08%          | 0.001%        |
| 7         | 2.640       | 2.634        | 2.652      | HH       | 3114           | 27820        | 0.05%          | 0.001%        |
| 8         | 2.677       | 2.652        | 2.689      | HH       | 4765           | 65248        | 0.12%          | 0.002%        |
| 9         | 2.705       | 2.689        | 2.717      | HH       | 5649           | 72936        | 0.14%          | 0.002%        |
| 10        | 2.725       | 2.717        | 2.735      | HH       | 4311           | 43197        | 0.08%          | 0.001%        |
| 11        | 2.760       | 2.735        | 2.770      | HH       | 4476           | 90566        | 0.17%          | 0.003%        |
| 12        | 2.811       | 2.770        | 2.818      | HH       | 6741           | 146687       | 0.28%          | 0.004%        |
| 13        | 2.830       | 2.818        | 2.851      | HH       | 10330          | 143677       | 0.27%          | 0.004%        |
| 14        | 2.869       | 2.851        | 2.882      | HH       | 6462           | 107168       | 0.20%          | 0.003%        |
| 15        | 2.899       | 2.882        | 2.927      | HH       | 9006           | 198098       | 0.37%          | 0.006%        |
| 16        | 2.941       | 2.927        | 2.953      | HH       | 6273           | 92613        | 0.17%          | 0.003%        |
| 17        | 2.964       | 2.953        | 2.981      | HH       | 7162           | 106822       | 0.20%          | 0.003%        |
| 18        | 2.997       | 2.981        | 3.014      | HH       | 6786           | 124086       | 0.23%          | 0.003%        |
| 19        | 3.030       | 3.014        | 3.045      | HH       | 6538           | 113992       | 0.22%          | 0.003%        |
| 20        | 3.061       | 3.045        | 3.070      | HH       | 9535           | 115768       | 0.22%          | 0.003%        |
| 21        | 3.078       | 3.070        | 3.091      | HH       | 8557           | 90258        | 0.17%          | 0.003%        |
| 22        | 3.107       | 3.091        | 3.115      | HH       | 8057           | 100760       | 0.19%          | 0.003%        |
| 23        | 3.126       | 3.115        | 3.148      | HH       | 10814          | 160747       | 0.30%          | 0.005%        |
| 24        | 3.159       | 3.148        | 3.172      | HH       | 6114           | 83048        | 0.16%          | 0.002%        |
| 25        | 3.197       | 3.172        | 3.210      | HH       | 9967           | 171131       | 0.32%          | 0.005%        |
| 26        | 3.222       | 3.210        | 3.242      | HH       | 7848           | 119367       | 0.23%          | 0.003%        |
| 27        | 3.253       | 3.242        | 3.306      | HH       | 9697           | 209244       | 0.39%          | 0.006%        |
| 28        | 3.321       | 3.306        | 3.333      | HH       | 5293           | 75544        | 0.14%          | 0.002%        |
| 29        | 3.351       | 3.333        | 3.357      | HH       | 6170           | 76127        | 0.14%          | 0.002%        |
| 30        | 3.370       | 3.357        | 3.382      | HH       | 7995           | 99218        | 0.19%          | 0.003%        |
| 31        | 3.396       | 3.382        | 3.412      | HH       | 15101          | 170747       | 0.32%          | 0.005%        |
| 32        | 3.423       | 3.412        | 3.455      | HH       | 6188           | 115190       | 0.22%          | 0.003%        |
| 33        | 3.475       | 3.455        | 3.485      | HH       | 4127           | 65124        | 0.12%          | 0.002%        |
| 34        | 3.504       | 3.485        | 3.511      | HH       | 7568           | 91015        | 0.17%          | 0.003%        |
| 35        | 3.527       | 3.511        | 3.543      | HH       | 8797           | 137014       | 0.26%          | 0.004%        |
| 36        | 3.576       | 3.543        | 3.607      | HH       | 10738          | 293411       | 0.55%          | 0.008%        |

| rteres |       |       |       |    |        |         |       |        |
|--------|-------|-------|-------|----|--------|---------|-------|--------|
| 37     | 3.620 | 3.607 | 3.630 | HH | 8133   | 90171   | 0.17% | 0.003% |
| 38     | 3.655 | 3.630 | 3.681 | HH | 16965  | 294933  | 0.56% | 0.008% |
| 39     | 3.708 | 3.681 | 3.731 | HH | 12777  | 239463  | 0.45% | 0.007% |
| 40     | 3.752 | 3.731 | 3.796 | HH | 26890  | 520676  | 0.98% | 0.015% |
| 41     | 3.825 | 3.796 | 3.839 | HH | 19889  | 301130  | 0.57% | 0.008% |
| 42     | 3.848 | 3.839 | 3.861 | HH | 10628  | 109196  | 0.21% | 0.003% |
| 43     | 3.876 | 3.861 | 3.907 | HH | 13113  | 213812  | 0.40% | 0.006% |
| 44     | 3.923 | 3.907 | 3.941 | HH | 17188  | 184598  | 0.35% | 0.005% |
| 45     | 3.970 | 3.941 | 3.976 | HH | 15680  | 197859  | 0.37% | 0.006% |
| 46     | 3.981 | 3.976 | 4.017 | HH | 15625  | 256206  | 0.48% | 0.007% |
| 47     | 4.041 | 4.017 | 4.066 | HH | 16198  | 281810  | 0.53% | 0.008% |
| 48     | 4.080 | 4.066 | 4.097 | HH | 9644   | 147159  | 0.28% | 0.004% |
| 49     | 4.114 | 4.097 | 4.127 | HH | 15943  | 207125  | 0.39% | 0.006% |
| 50     | 4.146 | 4.127 | 4.165 | HH | 17376  | 269182  | 0.51% | 0.008% |
| 51     | 4.180 | 4.165 | 4.188 | HH | 7796   | 89404   | 0.17% | 0.003% |
| 52     | 4.230 | 4.188 | 4.243 | HH | 18006  | 405350  | 0.76% | 0.011% |
| 53     | 4.257 | 4.243 | 4.270 | HH | 18238  | 231447  | 0.44% | 0.006% |
| 54     | 4.275 | 4.270 | 4.285 | HH | 12374  | 102029  | 0.19% | 0.003% |
| 55     | 4.297 | 4.285 | 4.331 | HH | 14134  | 219497  | 0.41% | 0.006% |
| 56     | 4.368 | 4.331 | 4.385 | HH | 17999  | 306599  | 0.58% | 0.009% |
| 57     | 4.408 | 4.385 | 4.428 | HH | 16358  | 292614  | 0.55% | 0.008% |
| 58     | 4.450 | 4.428 | 4.471 | HH | 17625  | 339822  | 0.64% | 0.010% |
| 59     | 4.476 | 4.471 | 4.486 | HH | 10026  | 86711   | 0.16% | 0.002% |
| 60     | 4.495 | 4.486 | 4.506 | HH | 10164  | 106805  | 0.20% | 0.003% |
| 61     | 4.523 | 4.506 | 4.551 | HH | 17713  | 315826  | 0.60% | 0.009% |
| 62     | 4.569 | 4.551 | 4.582 | HH | 9305   | 165816  | 0.31% | 0.005% |
| 63     | 4.612 | 4.582 | 4.636 | HH | 26572  | 589458  | 1.11% | 0.017% |
| 64     | 4.655 | 4.636 | 4.669 | HH | 37649  | 529393  | 1.00% | 0.015% |
| 65     | 4.678 | 4.669 | 4.692 | HH | 26916  | 313662  | 0.59% | 0.009% |
| 66     | 4.708 | 4.692 | 4.724 | HH | 64535  | 710376  | 1.34% | 0.020% |
| 67     | 4.738 | 4.724 | 4.749 | HH | 39817  | 448249  | 0.85% | 0.013% |
| 68     | 4.761 | 4.749 | 4.774 | HH | 35131  | 440848  | 0.83% | 0.012% |
| 69     | 4.786 | 4.774 | 4.802 | HH | 43090  | 511705  | 0.97% | 0.014% |
| 70     | 4.827 | 4.802 | 4.845 | HH | 49768  | 774606  | 1.46% | 0.022% |
| 71     | 4.866 | 4.845 | 4.888 | HH | 57229  | 891596  | 1.68% | 0.025% |
| 72     | 4.903 | 4.888 | 4.913 | HH | 29617  | 364483  | 0.69% | 0.010% |
| 73     | 4.931 | 4.913 | 4.956 | HH | 98923  | 1278523 | 2.41% | 0.036% |
| 74     | 4.977 | 4.956 | 4.992 | HH | 38627  | 605641  | 1.14% | 0.017% |
| 75     | 5.018 | 4.992 | 5.036 | HH | 38080  | 735471  | 1.39% | 0.021% |
| 76     | 5.066 | 5.036 | 5.076 | HH | 59695  | 837470  | 1.58% | 0.023% |
| 77     | 5.095 | 5.076 | 5.117 | HH | 66126  | 1190146 | 2.24% | 0.033% |
| 78     | 5.135 | 5.117 | 5.164 | HH | 93427  | 1471800 | 2.78% | 0.041% |
| 79     | 5.178 | 5.164 | 5.184 | HH | 55625  | 536249  | 1.01% | 0.015% |
| 80     | 5.198 | 5.184 | 5.220 | HH | 109449 | 1554060 | 2.93% | 0.044% |
| 81     | 5.225 | 5.220 | 5.240 | HH | 40400  | 370847  | 0.70% | 0.010% |
| 82     | 5.254 | 5.240 | 5.277 | HH | 40216  | 714297  | 1.35% | 0.020% |
| 83     | 5.297 | 5.277 | 5.324 | HH | 102474 | 1696024 | 3.20% | 0.048% |
| 84     | 5.356 | 5.324 | 5.374 | HH | 77445  | 1846163 | 3.48% | 0.052% |
| 85     | 5.389 | 5.374 | 5.402 | HH | 81314  | 1003228 | 1.89% | 0.028% |
| 86     | 5.417 | 5.402 | 5.434 | HH | 75136  | 1188965 | 2.24% | 0.033% |
| 87     | 5.447 | 5.434 | 5.471 | HH | 64023  | 1104027 | 2.08% | 0.031% |
| 88     | 5.497 | 5.471 | 5.507 | HH | 71788  | 1187911 | 2.24% | 0.033% |
| 89     | 5.523 | 5.507 | 5.547 | HH | 163508 | 2072792 | 3.91% | 0.058% |

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|--------|-------|-------|-------|----|--------|---------|--------|--------|
| 90     | 5.565 | 5.547 | 5.578 | HH | 71099  | 986641  | 1.86%  | 0.028% |
| 91     | 5.587 | 5.578 | 5.601 | HH | 50008  | 605144  | 1.14%  | 0.017% |
| 92     | 5.617 | 5.601 | 5.625 | HH | 55112  | 682911  | 1.29%  | 0.019% |
| 93     | 5.652 | 5.625 | 5.663 | HH | 65315  | 1314455 | 2.48%  | 0.037% |
| 94     | 5.683 | 5.663 | 5.704 | HH | 242796 | 3295400 | 6.22%  | 0.092% |
| 95     | 5.712 | 5.704 | 5.720 | HH | 51571  | 460985  | 0.87%  | 0.013% |
| 96     | 5.743 | 5.720 | 5.764 | HH | 77800  | 1676232 | 3.16%  | 0.047% |
| 97     | 5.782 | 5.764 | 5.790 | HH | 153248 | 1697549 | 3.20%  | 0.048% |
| 98     | 5.796 | 5.790 | 5.828 | HH | 145058 | 2058745 | 3.88%  | 0.058% |
| 99     | 5.845 | 5.828 | 5.858 | HH | 92088  | 1183520 | 2.23%  | 0.033% |
| 100    | 5.866 | 5.858 | 5.876 | HH | 58218  | 576927  | 1.09%  | 0.016% |
| 101    | 5.893 | 5.876 | 5.930 | HH | 105059 | 2212911 | 4.17%  | 0.062% |
| 102    | 5.950 | 5.930 | 5.977 | HH | 105935 | 1811653 | 3.42%  | 0.051% |
| 103    | 5.999 | 5.977 | 6.022 | HH | 105831 | 1974420 | 3.72%  | 0.055% |
| 104    | 6.052 | 6.022 | 6.076 | HH | 183095 | 3630640 | 6.85%  | 0.102% |
| 105    | 6.096 | 6.076 | 6.114 | HH | 176244 | 2385688 | 4.50%  | 0.067% |
| 106    | 6.138 | 6.114 | 6.167 | HH | 226673 | 3713418 | 7.00%  | 0.104% |
| 107    | 6.199 | 6.167 | 6.216 | HH | 180660 | 2906150 | 5.48%  | 0.081% |
| 108    | 6.239 | 6.216 | 6.257 | HH | 85350  | 1805536 | 3.41%  | 0.051% |
| 109    | 6.289 | 6.257 | 6.302 | HH | 81846  | 1877794 | 3.54%  | 0.053% |
| 110    | 6.318 | 6.302 | 6.341 | HH | 114615 | 1969382 | 3.71%  | 0.055% |
| 111    | 6.361 | 6.341 | 6.386 | HH | 127527 | 2325640 | 4.39%  | 0.065% |
| 112    | 6.414 | 6.386 | 6.428 | HH | 97059  | 1914808 | 3.61%  | 0.054% |
| 113    | 6.440 | 6.428 | 6.450 | HH | 79101  | 936814  | 1.77%  | 0.026% |
| 114    | 6.477 | 6.450 | 6.489 | HH | 100235 | 1897315 | 3.58%  | 0.053% |
| 115    | 6.500 | 6.489 | 6.529 | HH | 86525  | 1705359 | 3.22%  | 0.048% |
| 116    | 6.543 | 6.529 | 6.559 | HH | 67732  | 1065794 | 2.01%  | 0.030% |
| 117    | 6.578 | 6.559 | 6.586 | HH | 76697  | 1057865 | 2.00%  | 0.030% |
| 118    | 6.594 | 6.586 | 6.607 | HH | 78418  | 917616  | 1.73%  | 0.026% |
| 119    | 6.630 | 6.607 | 6.651 | HH | 483631 | 6095993 | 11.50% | 0.171% |
| 120    | 6.669 | 6.651 | 6.688 | HH | 105995 | 2088179 | 3.94%  | 0.059% |
| 121    | 6.700 | 6.688 | 6.731 | HH | 106599 | 1886750 | 3.56%  | 0.053% |
| 122    | 6.754 | 6.731 | 6.781 | HH | 103094 | 2239609 | 4.22%  | 0.063% |
| 123    | 6.806 | 6.781 | 6.830 | HH | 153210 | 2926704 | 5.52%  | 0.082% |
| 124    | 6.840 | 6.830 | 6.852 | HH | 77342  | 930059  | 1.75%  | 0.026% |
| 125    | 6.871 | 6.852 | 6.899 | HH | 85494  | 1978240 | 3.73%  | 0.055% |
| 126    | 6.938 | 6.899 | 6.961 | HH | 90849  | 2545426 | 4.80%  | 0.071% |
| 127    | 6.981 | 6.961 | 6.990 | HH | 163706 | 2127802 | 4.01%  | 0.060% |
| 128    | 6.996 | 6.990 | 7.021 | HH | 148606 | 2059892 | 3.89%  | 0.058% |
| 129    | 7.039 | 7.021 | 7.064 | HH | 179615 | 2774222 | 5.23%  | 0.078% |
| 130    | 7.083 | 7.064 | 7.121 | HH | 230328 | 3973958 | 7.50%  | 0.111% |
| 131    | 7.141 | 7.121 | 7.162 | HH | 185396 | 2615602 | 4.93%  | 0.073% |
| 132    | 7.184 | 7.162 | 7.225 | HH | 430548 | 6299436 | 11.88% | 0.176% |
| 133    | 7.240 | 7.225 | 7.258 | HH | 99075  | 1558484 | 2.94%  | 0.044% |
| 134    | 7.286 | 7.258 | 7.302 | HH | 124239 | 2201530 | 4.15%  | 0.062% |
| 135    | 7.330 | 7.302 | 7.346 | HH | 81863  | 1936487 | 3.65%  | 0.054% |
| 136    | 7.366 | 7.346 | 7.386 | HH | 112487 | 2109081 | 3.98%  | 0.059% |
| 137    | 7.405 | 7.386 | 7.435 | HH | 124833 | 2555118 | 4.82%  | 0.072% |
| 138    | 7.456 | 7.435 | 7.480 | HH | 77808  | 1797015 | 3.39%  | 0.050% |
| 139    | 7.498 | 7.480 | 7.509 | HH | 83710  | 1295220 | 2.44%  | 0.036% |
| 140    | 7.525 | 7.509 | 7.554 | HH | 105492 | 2403800 | 4.53%  | 0.067% |
| 141    | 7.578 | 7.554 | 7.605 | HH | 189182 | 3472029 | 6.55%  | 0.097% |

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| rteres |       |       |       |    |        |         |       |        |
|--------|-------|-------|-------|----|--------|---------|-------|--------|
| 142    | 7.617 | 7.605 | 7.644 | HH | 68882  | 1385720 | 2.61% | 0.039% |
| 143    | 7.664 | 7.644 | 7.683 | HH | 70822  | 1389377 | 2.62% | 0.039% |
| 144    | 7.716 | 7.683 | 7.728 | HH | 83821  | 1918583 | 3.62% | 0.054% |
| 145    | 7.747 | 7.728 | 7.762 | HH | 119369 | 1899812 | 3.58% | 0.053% |
| 146    | 7.773 | 7.762 | 7.807 | HH | 78767  | 1782915 | 3.36% | 0.050% |
| 147    | 7.859 | 7.807 | 7.873 | HH | 137834 | 3572940 | 6.74% | 0.100% |
| 148    | 7.885 | 7.873 | 7.903 | HH | 130099 | 1759218 | 3.32% | 0.049% |
| 149    | 7.927 | 7.903 | 7.948 | HH | 144410 | 2478528 | 4.68% | 0.069% |
| 150    | 7.972 | 7.948 | 8.000 | HH | 206894 | 3512120 | 6.62% | 0.098% |
| 151    | 8.028 | 8.000 | 8.051 | HH | 157206 | 2807246 | 5.30% | 0.079% |
| 152    | 8.067 | 8.051 | 8.076 | HH | 61495  | 855827  | 1.61% | 0.024% |
| 153    | 8.099 | 8.076 | 8.122 | HH | 370130 | 4724326 | 8.91% | 0.132% |
| 154    | 8.152 | 8.122 | 8.173 | HH | 68241  | 1946978 | 3.67% | 0.055% |
| 155    | 8.190 | 8.173 | 8.209 | HH | 83434  | 1449095 | 2.73% | 0.041% |
| 156    | 8.240 | 8.209 | 8.254 | HH | 73094  | 1826323 | 3.44% | 0.051% |
| 157    | 8.277 | 8.254 | 8.305 | HH | 116798 | 2531919 | 4.78% | 0.071% |
| 158    | 8.327 | 8.305 | 8.351 | HH | 124481 | 2404218 | 4.53% | 0.067% |
| 159    | 8.372 | 8.351 | 8.404 | HH | 85067  | 2180956 | 4.11% | 0.061% |
| 160    | 8.422 | 8.404 | 8.432 | HH | 76859  | 1194919 | 2.25% | 0.033% |
| 161    | 8.445 | 8.432 | 8.460 | HH | 90577  | 1306246 | 2.46% | 0.037% |
| 162    | 8.468 | 8.460 | 8.485 | HH | 68032  | 954429  | 1.80% | 0.027% |
| 163    | 8.500 | 8.485 | 8.506 | HH | 57529  | 681702  | 1.29% | 0.019% |
| 164    | 8.510 | 8.506 | 8.514 | HH | 57454  | 271414  | 0.51% | 0.008% |
| 165    | 8.522 | 8.514 | 8.538 | HH | 59233  | 828893  | 1.56% | 0.023% |
| 166    | 8.557 | 8.538 | 8.593 | HH | 64625  | 1893078 | 3.57% | 0.053% |
| 167    | 8.605 | 8.593 | 8.616 | HH | 52300  | 695804  | 1.31% | 0.019% |
| 168    | 8.637 | 8.616 | 8.661 | HH | 91670  | 1938370 | 3.66% | 0.054% |
| 169    | 8.692 | 8.661 | 8.711 | HH | 87908  | 2314527 | 4.37% | 0.065% |
| 170    | 8.739 | 8.711 | 8.755 | HH | 93893  | 2135459 | 4.03% | 0.060% |
| 171    | 8.769 | 8.755 | 8.791 | HH | 94815  | 1714138 | 3.23% | 0.048% |
| 172    | 8.815 | 8.791 | 8.840 | HH | 326092 | 4810652 | 9.07% | 0.135% |
| 173    | 8.866 | 8.840 | 8.883 | HH | 98760  | 1819677 | 3.43% | 0.051% |
| 174    | 8.897 | 8.883 | 8.919 | HH | 58058  | 1147905 | 2.17% | 0.032% |
| 175    | 8.939 | 8.919 | 8.945 | HH | 55587  | 835766  | 1.58% | 0.023% |
| 176    | 8.961 | 8.945 | 8.987 | HH | 70776  | 1453213 | 2.74% | 0.041% |
| 177    | 8.994 | 8.987 | 9.008 | HH | 49785  | 617206  | 1.16% | 0.017% |
| 178    | 9.028 | 9.008 | 9.061 | HH | 79955  | 2029718 | 3.83% | 0.057% |
| 179    | 9.099 | 9.061 | 9.162 | HH | 74921  | 3498183 | 6.60% | 0.098% |
| 180    | 9.184 | 9.162 | 9.208 | HH | 68870  | 1583265 | 2.99% | 0.044% |
| 181    | 9.234 | 9.208 | 9.271 | HH | 54702  | 1890249 | 3.57% | 0.053% |
| 182    | 9.286 | 9.271 | 9.291 | HH | 47215  | 563676  | 1.06% | 0.016% |
| 183    | 9.330 | 9.291 | 9.366 | HH | 56171  | 2340865 | 4.42% | 0.066% |
| 184    | 9.396 | 9.366 | 9.442 | HH | 159391 | 3589178 | 6.77% | 0.101% |
| 185    | 9.475 | 9.442 | 9.485 | HH | 98954  | 1895058 | 3.57% | 0.053% |
| 186    | 9.496 | 9.485 | 9.533 | HH | 102425 | 2280812 | 4.30% | 0.064% |
| 187    | 9.556 | 9.533 | 9.589 | HH | 86362  | 2445500 | 4.61% | 0.069% |
| 188    | 9.606 | 9.589 | 9.623 | HH | 81092  | 1434871 | 2.71% | 0.040% |
| 189    | 9.638 | 9.623 | 9.648 | HH | 74031  | 1074975 | 2.03% | 0.030% |
| 190    | 9.660 | 9.648 | 9.686 | HH | 74952  | 1513635 | 2.86% | 0.042% |
| 191    | 9.705 | 9.686 | 9.716 | HH | 63445  | 1102850 | 2.08% | 0.031% |
| 192    | 9.722 | 9.716 | 9.740 | HH | 62925  | 883574  | 1.67% | 0.025% |
| 193    | 9.784 | 9.740 | 9.804 | HH | 79586  | 2635860 | 4.97% | 0.074% |
| 194    | 9.824 | 9.804 | 9.865 | HH | 79908  | 2765485 | 5.22% | 0.077% |

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Manual Integrations  
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| rteres |        |        |        |    |        |          |        |        |
|--------|--------|--------|--------|----|--------|----------|--------|--------|
| 195    | 9.882  | 9.865  | 9.909  | HH | 87657  | 2086114  | 3.93%  | 0.058% |
| 196    | 9.914  | 9.909  | 9.922  | HH | 75346  | 586707   | 1.11%  | 0.016% |
| 197    | 9.985  | 9.922  | 10.002 | HH | 84454  | 3792243  | 7.15%  | 0.106% |
| 198    | 10.006 | 10.002 | 10.014 | HH | 78559  | 566640   | 1.07%  | 0.016% |
| 199    | 10.054 | 10.014 | 10.064 | HH | 86420  | 2454416  | 4.63%  | 0.069% |
| 200    | 10.075 | 10.064 | 10.087 | HH | 87486  | 1184184  | 2.23%  | 0.033% |
| 201    | 10.096 | 10.087 | 10.104 | HH | 87201  | 914611   | 1.73%  | 0.026% |
| 202    | 10.130 | 10.104 | 10.134 | HH | 92711  | 1633664  | 3.08%  | 0.046% |
| 203    | 10.157 | 10.134 | 10.174 | HH | 96310  | 2250224  | 4.24%  | 0.063% |
| 204    | 10.200 | 10.174 | 10.205 | HH | 97498  | 1753522  | 3.31%  | 0.049% |
| 205    | 10.232 | 10.205 | 10.247 | HH | 106041 | 2564803  | 4.84%  | 0.072% |
| 206    | 10.271 | 10.247 | 10.295 | HH | 150275 | 3587497  | 6.77%  | 0.101% |
| 207    | 10.323 | 10.295 | 10.347 | HH | 130233 | 3720571  | 7.02%  | 0.104% |
| 208    | 10.363 | 10.347 | 10.384 | HH | 126409 | 2722927  | 5.14%  | 0.076% |
| 209    | 10.421 | 10.384 | 10.443 | HH | 140294 | 4468020  | 8.43%  | 0.125% |
| 210    | 10.472 | 10.443 | 10.488 | HH | 127309 | 3316691  | 6.26%  | 0.093% |
| 211    | 10.495 | 10.488 | 10.499 | HH | 127822 | 826156   | 1.56%  | 0.023% |
| 212    | 10.519 | 10.499 | 10.530 | HH | 139656 | 2532872  | 4.78%  | 0.071% |
| 213    | 10.557 | 10.530 | 10.570 | HH | 143585 | 3372463  | 6.36%  | 0.094% |
| 214    | 10.622 | 10.570 | 10.640 | HH | 162907 | 6236680  | 11.76% | 0.175% |
| 215    | 10.695 | 10.640 | 10.726 | HH | 249666 | 9547983  | 18.01% | 0.268% |
| 216    | 10.744 | 10.726 | 10.748 | HH | 174556 | 2302755  | 4.34%  | 0.065% |
| 217    | 10.751 | 10.748 | 10.757 | HH | 173809 | 997453   | 1.88%  | 0.028% |
| 218    | 10.762 | 10.757 | 10.779 | HH | 172336 | 2239041  | 4.22%  | 0.063% |
| 219    | 10.796 | 10.779 | 10.807 | HH | 174837 | 2811199  | 5.30%  | 0.079% |
| 220    | 10.838 | 10.807 | 10.849 | HH | 188327 | 4554763  | 8.59%  | 0.128% |
| 221    | 10.872 | 10.849 | 10.892 | HH | 211163 | 5201439  | 9.81%  | 0.146% |
| 222    | 10.905 | 10.892 | 10.931 | HH | 201178 | 4602420  | 8.68%  | 0.129% |
| 223    | 10.956 | 10.931 | 10.969 | HH | 214641 | 4751736  | 8.96%  | 0.133% |
| 224    | 10.975 | 10.969 | 10.989 | HH | 209596 | 2434768  | 4.59%  | 0.068% |
| 225    | 11.021 | 10.989 | 11.041 | HH | 235979 | 6942181  | 13.09% | 0.194% |
| 226    | 11.052 | 11.041 | 11.072 | HH | 226229 | 4109547  | 7.75%  | 0.115% |
| 227    | 11.108 | 11.072 | 11.124 | HH | 245000 | 7337687  | 13.84% | 0.206% |
| 228    | 11.132 | 11.124 | 11.141 | HH | 242564 | 2456660  | 4.63%  | 0.069% |
| 229    | 11.184 | 11.141 | 11.206 | HH | 262463 | 9831196  | 18.54% | 0.275% |
| 230    | 11.228 | 11.206 | 11.244 | HH | 265370 | 5997156  | 11.31% | 0.168% |
| 231    | 11.287 | 11.244 | 11.298 | HH | 289156 | 8924106  | 16.83% | 0.250% |
| 232    | 11.311 | 11.298 | 11.322 | HH | 293841 | 4176948  | 7.88%  | 0.117% |
| 233    | 11.328 | 11.322 | 11.345 | HH | 291534 | 4006170  | 7.56%  | 0.112% |
| 234    | 11.361 | 11.345 | 11.365 | HH | 293494 | 3550323  | 6.70%  | 0.099% |
| 235    | 11.375 | 11.365 | 11.389 | HH | 296678 | 4113630  | 7.76%  | 0.115% |
| 236    | 11.422 | 11.389 | 11.461 | HH | 458064 | 15393028 | 29.04% | 0.431% |
| 237    | 11.488 | 11.461 | 11.512 | HH | 328429 | 9831195  | 18.54% | 0.275% |
| 238    | 11.537 | 11.512 | 11.543 | HH | 329369 | 5879645  | 11.09% | 0.165% |
| 239    | 11.593 | 11.543 | 11.599 | HH | 361400 | 11657248 | 21.99% | 0.327% |
| 240    | 11.637 | 11.599 | 11.678 | HH | 398822 | 17948965 | 33.86% | 0.503% |
| 241    | 11.709 | 11.678 | 11.723 | HH | 418668 | 10684631 | 20.15% | 0.299% |
| 242    | 11.727 | 11.723 | 11.732 | HH | 405147 | 2105010  | 3.97%  | 0.059% |
| 243    | 11.749 | 11.732 | 11.767 | HH | 415889 | 8512611  | 16.06% | 0.238% |
| 244    | 11.798 | 11.767 | 11.802 | HH | 438138 | 8906572  | 16.80% | 0.250% |
| 245    | 11.807 | 11.802 | 11.819 | HH | 441931 | 4394166  | 8.29%  | 0.123% |
| 246    | 11.842 | 11.819 | 11.861 | HH | 493597 | 11555926 | 21.80% | 0.324% |

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| rteres |        |        |        |    |         |          |        |        |
|--------|--------|--------|--------|----|---------|----------|--------|--------|
| 247    | 11.890 | 11.861 | 11.908 | HH | 475696  | 12985911 | 24.49% | 0.364% |
| 248    | 11.913 | 11.908 | 11.928 | HH | 467462  | 5641386  | 10.64% | 0.158% |
| 249    | 11.962 | 11.928 | 11.967 | HH | 525629  | 11636287 | 21.95% | 0.326% |
| 250    | 11.988 | 11.967 | 12.022 | HH | 578555  | 18012490 | 33.98% | 0.505% |
| 251    | 12.028 | 12.022 | 12.057 | HH | 521042  | 10722673 | 20.23% | 0.300% |
| 252    | 12.082 | 12.057 | 12.092 | HH | 541409  | 10924623 | 20.61% | 0.306% |
| 253    | 12.119 | 12.092 | 12.136 | HH | 599090  | 15179824 | 28.63% | 0.425% |
| 254    | 12.140 | 12.136 | 12.159 | HH | 589340  | 7897084  | 14.90% | 0.221% |
| 255    | 12.171 | 12.159 | 12.190 | HH | 573388  | 10557103 | 19.91% | 0.296% |
| 256    | 12.245 | 12.190 | 12.254 | HH | 630085  | 23014498 | 43.41% | 0.645% |
| 257    | 12.274 | 12.254 | 12.298 | HH | 735373  | 17651683 | 33.30% | 0.495% |
| 258    | 12.322 | 12.298 | 12.358 | HH | 676484  | 23521322 | 44.37% | 0.659% |
| 259    | 12.384 | 12.358 | 12.396 | HH | 695030  | 15019210 | 28.33% | 0.421% |
| 260    | 12.413 | 12.396 | 12.430 | HH | 714193  | 14222331 | 26.83% | 0.398% |
| 261    | 12.435 | 12.430 | 12.441 | HH | 700555  | 4638897  | 8.75%  | 0.130% |
| 262    | 12.445 | 12.441 | 12.459 | HH | 701049  | 7593084  | 14.32% | 0.213% |
| 263    | 12.474 | 12.459 | 12.484 | HH | 683505  | 10083255 | 19.02% | 0.283% |
| 264    | 12.518 | 12.484 | 12.551 | HH | 741429  | 28696004 | 54.13% | 0.804% |
| 265    | 12.580 | 12.551 | 12.591 | HH | 783424  | 18125774 | 34.19% | 0.508% |
| 266    | 12.604 | 12.591 | 12.634 | HH | 797463  | 20164735 | 38.04% | 0.565% |
| 267    | 12.667 | 12.634 | 12.696 | HH | 806867  | 29285613 | 55.24% | 0.820% |
| 268    | 12.710 | 12.696 | 12.733 | HH | 803679  | 17846898 | 33.66% | 0.500% |
| 269    | 12.749 | 12.733 | 12.754 | HH | 826570  | 9832102  | 18.55% | 0.275% |
| 270    | 12.775 | 12.754 | 12.795 | HH | 903209  | 21417603 | 40.40% | 0.600% |
| 271    | 12.800 | 12.795 | 12.822 | HH | 862738  | 13556122 | 25.57% | 0.380% |
| 272    | 12.825 | 12.822 | 12.839 | HH | 835055  | 8627002  | 16.27% | 0.242% |
| 273    | 12.853 | 12.839 | 12.859 | HH | 828059  | 9712364  | 18.32% | 0.272% |
| 274    | 12.879 | 12.859 | 12.891 | HH | 857262  | 16425871 | 30.98% | 0.460% |
| 275    | 12.895 | 12.891 | 12.900 | HH | 850012  | 4629161  | 8.73%  | 0.130% |
| 276    | 12.929 | 12.900 | 12.942 | HH | 904100  | 21971627 | 41.44% | 0.616% |
| 277    | 12.947 | 12.942 | 12.961 | HH | 882538  | 9730309  | 18.35% | 0.273% |
| 278    | 12.995 | 12.961 | 13.005 | HH | 910604  | 23465164 | 44.26% | 0.657% |
| 279    | 13.032 | 13.005 | 13.044 | HH | 920743  | 21465167 | 40.49% | 0.601% |
| 280    | 13.079 | 13.044 | 13.109 | HH | 961286  | 36113405 | 68.12% | 1.012% |
| 281    | 13.126 | 13.109 | 13.132 | HH | 952547  | 13161846 | 24.83% | 0.369% |
| 282    | 13.162 | 13.132 | 13.187 | HH | 1050542 | 32944187 | 62.14% | 0.923% |
| 283    | 13.210 | 13.187 | 13.233 | HH | 1036073 | 27260839 | 51.42% | 0.764% |
| 284    | 13.245 | 13.233 | 13.250 | HH | 992077  | 10212393 | 19.26% | 0.286% |
| 285    | 13.256 | 13.250 | 13.266 | HH | 1002360 | 9166754  | 17.29% | 0.257% |
| 286    | 13.290 | 13.266 | 13.297 | HH | 1039815 | 19095080 | 36.02% | 0.535% |
| 287    | 13.303 | 13.297 | 13.305 | HH | 1023877 | 4864110  | 9.17%  | 0.136% |
| 288    | 13.326 | 13.305 | 13.341 | HH | 1104303 | 22394984 | 42.24% | 0.627% |
| 289    | 13.353 | 13.341 | 13.378 | HH | 1076815 | 23593681 | 44.50% | 0.661% |
| 290    | 13.384 | 13.378 | 13.398 | HH | 1053490 | 12680051 | 23.92% | 0.355% |
| 291    | 13.416 | 13.398 | 13.429 | HH | 1044688 | 19123558 | 36.07% | 0.536% |
| 292    | 13.449 | 13.429 | 13.480 | HH | 1129463 | 32585976 | 61.47% | 0.913% |
| 293    | 13.503 | 13.480 | 13.531 | HH | 1188388 | 34720986 | 65.49% | 0.973% |
| 294    | 13.554 | 13.531 | 13.581 | HH | 1169444 | 33318444 | 62.85% | 0.933% |
| 295    | 13.595 | 13.581 | 13.613 | HH | 1149759 | 21687104 | 40.91% | 0.608% |
| 296    | 13.628 | 13.613 | 13.640 | HH | 1114027 | 17617521 | 33.23% | 0.494% |
| 297    | 13.657 | 13.640 | 13.682 | HH | 1121690 | 27737496 | 52.32% | 0.777% |
| 298    | 13.711 | 13.682 | 13.739 | HH | 1181811 | 39218178 | 73.98% | 1.099% |
| 299    | 13.744 | 13.739 | 13.749 | HH | 1119550 | 6395844  | 12.06% | 0.179% |

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| rteres |        |        |        |    |         |          |         |        |
|--------|--------|--------|--------|----|---------|----------|---------|--------|
| 300    | 13.784 | 13.749 | 13.805 | HH | 1195491 | 38464517 | 72.55%  | 1.078% |
| 301    | 13.825 | 13.805 | 13.840 | HH | 1149565 | 24190523 | 45.63%  | 0.678% |
| 302    | 13.878 | 13.840 | 13.907 | HH | 1280282 | 47275452 | 89.17%  | 1.325% |
| 303    | 13.926 | 13.907 | 13.943 | HH | 1201952 | 24742906 | 46.67%  | 0.693% |
| 304    | 13.953 | 13.943 | 13.975 | HH | 1155494 | 21903996 | 41.32%  | 0.614% |
| 305    | 14.019 | 13.975 | 14.039 | HH | 1176340 | 44206811 | 83.38%  | 1.239% |
| 306    | 14.050 | 14.039 | 14.066 | HH | 1142678 | 18049752 | 34.05%  | 0.506% |
| 307    | 14.103 | 14.066 | 14.130 | HH | 1313683 | 47003019 | 88.66%  | 1.317% |
| 308    | 14.150 | 14.130 | 14.157 | HH | 1177128 | 18853936 | 35.56%  | 0.528% |
| 309    | 14.166 | 14.157 | 14.179 | HH | 1182668 | 14978715 | 28.25%  | 0.420% |
| 310    | 14.185 | 14.179 | 14.212 | HH | 1166349 | 22692648 | 42.80%  | 0.636% |
| 311    | 14.233 | 14.212 | 14.245 | HH | 1150775 | 22691334 | 42.80%  | 0.636% |
| 312    | 14.255 | 14.245 | 14.279 | HH | 1180505 | 23557775 | 44.44%  | 0.660% |
| 313    | 14.290 | 14.279 | 14.311 | HH | 1151232 | 21270192 | 40.12%  | 0.596% |
| 314    | 14.334 | 14.311 | 14.374 | HH | 1155785 | 42810502 | 80.75%  | 1.199% |
| 315    | 14.391 | 14.374 | 14.418 | HH | 1188635 | 29526408 | 55.69%  | 0.827% |
| 316    | 14.429 | 14.418 | 14.447 | HH | 1086593 | 19181312 | 36.18%  | 0.537% |
| 317    | 14.466 | 14.447 | 14.479 | HH | 1106610 | 20878289 | 39.38%  | 0.585% |
| 318    | 14.502 | 14.479 | 14.519 | HH | 1159481 | 27001635 | 50.93%  | 0.757% |
| 319    | 14.528 | 14.519 | 14.541 | HH | 1140392 | 14392802 | 27.15%  | 0.403% |
| 320    | 14.559 | 14.541 | 14.602 | HH | 1190888 | 41233628 | 77.78%  | 1.155% |
| 321    | 14.609 | 14.602 | 14.621 | HH | 1072046 | 12517265 | 23.61%  | 0.351% |
| 322    | 14.636 | 14.621 | 14.657 | HH | 1077615 | 23104901 | 43.58%  | 0.647% |
| 323    | 14.698 | 14.657 | 14.739 | HH | 1123604 | 53015328 | 100.00% | 1.485% |
| 324    | 14.767 | 14.739 | 14.807 | HH | 1174510 | 43296605 | 81.67%  | 1.213% |
| 325    | 14.815 | 14.807 | 14.823 | HH | 1020265 | 9565545  | 18.04%  | 0.268% |
| 326    | 14.829 | 14.823 | 14.842 | HH | 1025890 | 11521140 | 21.73%  | 0.323% |
| 327    | 14.862 | 14.842 | 14.875 | HH | 1035814 | 20020991 | 37.76%  | 0.561% |
| 328    | 14.877 | 14.875 | 14.895 | HH | 1033008 | 12141423 | 22.90%  | 0.340% |
| 329    | 14.901 | 14.895 | 14.943 | HH | 1013600 | 28457706 | 53.68%  | 0.797% |
| 330    | 14.958 | 14.943 | 14.970 | HH | 976767  | 15555706 | 29.34%  | 0.436% |
| 331    | 15.003 | 14.970 | 15.023 | HH | 1017337 | 30914729 | 58.31%  | 0.866% |
| 332    | 15.042 | 15.023 | 15.068 | HH | 986030  | 25997678 | 49.04%  | 0.728% |
| 333    | 15.112 | 15.068 | 15.139 | HH | 1003178 | 40833845 | 77.02%  | 1.144% |
| 334    | 15.146 | 15.139 | 15.150 | HH | 890947  | 5697509  | 10.75%  | 0.160% |
| 335    | 15.160 | 15.150 | 15.181 | HH | 910071  | 16915061 | 31.91%  | 0.474% |
| 336    | 15.200 | 15.181 | 15.203 | HH | 908280  | 11923309 | 22.49%  | 0.334% |
| 337    | 15.215 | 15.203 | 15.227 | HH | 927243  | 12862850 | 24.26%  | 0.360% |
| 338    | 15.235 | 15.227 | 15.270 | HH | 919670  | 23127134 | 43.62%  | 0.648% |
| 339    | 15.288 | 15.270 | 15.295 | HH | 886252  | 13208177 | 24.91%  | 0.370% |
| 340    | 15.304 | 15.295 | 15.338 | HH | 905199  | 22717399 | 42.85%  | 0.636% |
| 341    | 15.349 | 15.338 | 15.366 | HH | 902834  | 14603575 | 27.55%  | 0.409% |
| 342    | 15.378 | 15.366 | 15.394 | HH | 854417  | 14169488 | 26.73%  | 0.397% |
| 343    | 15.412 | 15.394 | 15.446 | HH | 883383  | 26667707 | 50.30%  | 0.747% |
| 344    | 15.452 | 15.446 | 15.467 | HH | 837350  | 10646516 | 20.08%  | 0.298% |
| 345    | 15.476 | 15.467 | 15.484 | HH | 832521  | 8299682  | 15.66%  | 0.233% |
| 346    | 15.506 | 15.484 | 15.564 | HH | 943845  | 41180681 | 77.68%  | 1.154% |
| 347    | 15.577 | 15.564 | 15.616 | HH | 806541  | 24318340 | 45.87%  | 0.681% |
| 348    | 15.641 | 15.616 | 15.679 | HH | 823750  | 29464054 | 55.58%  | 0.825% |
| 349    | 15.683 | 15.679 | 15.696 | HH | 751222  | 7446565  | 14.05%  | 0.209% |
| 350    | 15.713 | 15.696 | 15.718 | HH | 761321  | 9834998  | 18.55%  | 0.276% |
| 351    | 15.721 | 15.718 | 15.731 | HH | 761801  | 5908632  | 11.15%  | 0.166% |

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| rteres |        |        |        |    |        |          |        |        |
|--------|--------|--------|--------|----|--------|----------|--------|--------|
| 352    | 15.741 | 15.731 | 15.774 | HH | 764239 | 19574703 | 36.92% | 0.548% |
| 353    | 15.801 | 15.774 | 15.854 | HH | 809639 | 36562912 | 68.97% | 1.024% |
| 354    | 15.860 | 15.854 | 15.872 | HH | 716638 | 7756614  | 14.63% | 0.217% |
| 355    | 15.878 | 15.872 | 15.896 | HH | 724067 | 10098025 | 19.05% | 0.283% |
| 356    | 15.905 | 15.896 | 15.919 | HH | 706522 | 9582884  | 18.08% | 0.268% |
| 357    | 15.925 | 15.919 | 15.927 | HH | 690895 | 3621728  | 6.83%  | 0.101% |
| 358    | 15.931 | 15.927 | 15.938 | HH | 691877 | 4245853  | 8.01%  | 0.119% |
| 359    | 15.949 | 15.938 | 15.970 | HH | 699410 | 13436003 | 25.34% | 0.376% |
| 360    | 15.977 | 15.970 | 15.987 | HH | 689672 | 6844370  | 12.91% | 0.192% |
| 361    | 15.998 | 15.987 | 16.002 | HH | 689826 | 6094668  | 11.50% | 0.171% |
| 362    | 16.020 | 16.002 | 16.026 | HH | 723761 | 10415846 | 19.65% | 0.292% |
| 363    | 16.030 | 16.026 | 16.074 | HH | 714946 | 19273326 | 36.35% | 0.540% |
| 364    | 16.081 | 16.074 | 16.114 | HH | 658959 | 15502981 | 29.24% | 0.434% |
| 365    | 16.142 | 16.114 | 16.149 | HH | 646695 | 13362621 | 25.21% | 0.374% |
| 366    | 16.154 | 16.149 | 16.164 | HH | 644603 | 5826645  | 10.99% | 0.163% |
| 367    | 16.200 | 16.164 | 16.241 | HH | 695806 | 29868254 | 56.34% | 0.837% |
| 368    | 16.255 | 16.241 | 16.261 | HH | 621148 | 7498559  | 14.14% | 0.210% |
| 369    | 16.302 | 16.261 | 16.346 | HH | 691808 | 32768119 | 61.81% | 0.918% |
| 370    | 16.364 | 16.346 | 16.391 | HH | 628797 | 16113148 | 30.39% | 0.451% |
| 371    | 16.395 | 16.391 | 16.410 | HH | 582150 | 6817021  | 12.86% | 0.191% |
| 372    | 16.417 | 16.410 | 16.422 | HH | 573508 | 3901789  | 7.36%  | 0.109% |
| 373    | 16.429 | 16.422 | 16.436 | HH | 571342 | 4725746  | 8.91%  | 0.132% |
| 374    | 16.443 | 16.436 | 16.465 | HH | 574748 | 9934283  | 18.74% | 0.278% |
| 375    | 16.476 | 16.465 | 16.488 | HH | 563352 | 7567602  | 14.27% | 0.212% |
| 376    | 16.494 | 16.488 | 16.516 | HH | 560477 | 9355849  | 17.65% | 0.262% |
| 377    | 16.522 | 16.516 | 16.527 | HH | 542698 | 3773721  | 7.12%  | 0.106% |
| 378    | 16.536 | 16.527 | 16.553 | HH | 539332 | 8263624  | 15.59% | 0.232% |
| 379    | 16.570 | 16.553 | 16.587 | HH | 540294 | 10859084 | 20.48% | 0.304% |
| 380    | 16.601 | 16.587 | 16.644 | HH | 560032 | 18419945 | 34.74% | 0.516% |
| 381    | 16.649 | 16.644 | 16.672 | HH | 542814 | 9059491  | 17.09% | 0.254% |
| 382    | 16.691 | 16.672 | 16.722 | HH | 553479 | 16116455 | 30.40% | 0.452% |
| 383    | 16.727 | 16.722 | 16.767 | HH | 519360 | 13655212 | 25.76% | 0.383% |
| 384    | 16.801 | 16.767 | 16.839 | HH | 521823 | 21659804 | 40.86% | 0.607% |
| 385    | 16.844 | 16.839 | 16.887 | HH | 470186 | 13319055 | 25.12% | 0.373% |
| 386    | 16.901 | 16.887 | 16.907 | HH | 460840 | 5281705  | 9.96%  | 0.148% |
| 387    | 16.926 | 16.907 | 16.942 | HH | 471949 | 9981831  | 18.83% | 0.280% |
| 388    | 16.945 | 16.942 | 16.951 | HH | 469560 | 2328230  | 4.39%  | 0.065% |
| 389    | 16.972 | 16.951 | 16.997 | HH | 531564 | 13707019 | 25.85% | 0.384% |
| 390    | 17.000 | 16.997 | 17.023 | HH | 449721 | 6767430  | 12.77% | 0.190% |
| 391    | 17.036 | 17.023 | 17.045 | HH | 441752 | 5893588  | 11.12% | 0.165% |
| 392    | 17.052 | 17.045 | 17.097 | HH | 445121 | 13571815 | 25.60% | 0.380% |
| 393    | 17.127 | 17.097 | 17.139 | HH | 440966 | 10679689 | 20.14% | 0.299% |
| 394    | 17.161 | 17.139 | 17.179 | HH | 450761 | 10625580 | 20.04% | 0.298% |
| 395    | 17.190 | 17.179 | 17.222 | HH | 453390 | 10966074 | 20.68% | 0.307% |
| 396    | 17.227 | 17.222 | 17.232 | HH | 388555 | 2222857  | 4.19%  | 0.062% |
| 397    | 17.261 | 17.232 | 17.299 | HH | 429532 | 16288208 | 30.72% | 0.456% |
| 398    | 17.305 | 17.299 | 17.322 | HH | 386587 | 5122245  | 9.66%  | 0.144% |
| 399    | 17.338 | 17.322 | 17.353 | HH | 386901 | 7249203  | 13.67% | 0.203% |
| 400    | 17.372 | 17.353 | 17.397 | HH | 399136 | 9948516  | 18.77% | 0.279% |
| 401    | 17.432 | 17.397 | 17.456 | HH | 368364 | 12368398 | 23.33% | 0.347% |
| 402    | 17.470 | 17.456 | 17.489 | HH | 353587 | 6863739  | 12.95% | 0.192% |
| 403    | 17.509 | 17.489 | 17.545 | HH | 376343 | 11867850 | 22.39% | 0.332% |
| 404    | 17.554 | 17.545 | 17.581 | HH | 325461 | 6832521  | 12.89% | 0.191% |

Instrument :  
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ClientSampleId :  
HAM-WC-L-VB01

Manual Integrations  
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| rteres |        |        |        |    |        |          |        |        |
|--------|--------|--------|--------|----|--------|----------|--------|--------|
| 405    | 17.594 | 17.581 | 17.621 | HH | 317654 | 7479263  | 14.11% | 0.210% |
| 406    | 17.627 | 17.621 | 17.635 | HH | 304572 | 2601742  | 4.91%  | 0.073% |
| 407    | 17.650 | 17.635 | 17.654 | HH | 302382 | 3383114  | 6.38%  | 0.095% |
| 408    | 17.659 | 17.654 | 17.664 | HH | 300858 | 1833097  | 3.46%  | 0.051% |
| 409    | 17.675 | 17.664 | 17.706 | HH | 308719 | 7469778  | 14.09% | 0.209% |
| 410    | 17.731 | 17.706 | 17.776 | HH | 316198 | 12517102 | 23.61% | 0.351% |
| 411    | 17.783 | 17.776 | 17.790 | HH | 288115 | 2416506  | 4.56%  | 0.068% |
| 412    | 17.810 | 17.790 | 17.823 | HH | 301398 | 5762795  | 10.87% | 0.161% |
| 413    | 17.827 | 17.823 | 17.859 | HH | 293932 | 6022359  | 11.36% | 0.169% |
| 414    | 17.864 | 17.859 | 17.869 | HH | 264060 | 1601118  | 3.02%  | 0.045% |
| 415    | 17.875 | 17.869 | 17.892 | HH | 264125 | 3640063  | 6.87%  | 0.102% |
| 416    | 17.898 | 17.892 | 17.901 | HH | 258394 | 1291408  | 2.44%  | 0.036% |
| 417    | 17.905 | 17.901 | 17.926 | HH | 259074 | 3901052  | 7.36%  | 0.109% |
| 418    | 17.949 | 17.926 | 17.957 | HH | 262941 | 4722011  | 8.91%  | 0.132% |
| 419    | 17.980 | 17.957 | 18.056 | HH | 332437 | 16176177 | 30.51% | 0.453% |
| 420    | 18.072 | 18.056 | 18.106 | HH | 240042 | 7037485  | 13.27% | 0.197% |
| 421    | 18.112 | 18.106 | 18.131 | HH | 234112 | 3475142  | 6.55%  | 0.097% |
| 422    | 18.140 | 18.131 | 18.149 | HH | 231285 | 2551826  | 4.81%  | 0.071% |
| 423    | 18.180 | 18.149 | 18.202 | HH | 258943 | 7605503  | 14.35% | 0.213% |
| 424    | 18.210 | 18.202 | 18.251 | HH | 230378 | 6538289  | 12.33% | 0.183% |
| 425    | 18.256 | 18.251 | 18.274 | HH | 211723 | 2799269  | 5.28%  | 0.078% |
| 426    | 18.280 | 18.274 | 18.284 | HH | 207178 | 1237019  | 2.33%  | 0.035% |
| 427    | 18.290 | 18.284 | 18.294 | HH | 207995 | 1299252  | 2.45%  | 0.036% |
| 428    | 18.317 | 18.294 | 18.323 | HH | 213598 | 3646711  | 6.88%  | 0.102% |
| 429    | 18.347 | 18.323 | 18.370 | HH | 266098 | 6624091  | 12.49% | 0.186% |
| 430    | 18.379 | 18.370 | 18.451 | HH | 208399 | 9382777  | 17.70% | 0.263% |
| 431    | 18.464 | 18.451 | 18.486 | HH | 190053 | 3951655  | 7.45%  | 0.111% |
| 432    | 18.492 | 18.486 | 18.497 | HH | 186346 | 1206451  | 2.28%  | 0.034% |
| 433    | 18.506 | 18.497 | 18.522 | HH | 189543 | 2855282  | 5.39%  | 0.080% |
| 434    | 18.530 | 18.522 | 18.589 | HH | 187388 | 7128505  | 13.45% | 0.200% |
| 435    | 18.598 | 18.589 | 18.603 | HH | 172113 | 1395731  | 2.63%  | 0.039% |
| 436    | 18.606 | 18.603 | 18.614 | HH | 171257 | 1120160  | 2.11%  | 0.031% |
| 437    | 18.624 | 18.614 | 18.639 | HH | 172379 | 2529582  | 4.77%  | 0.071% |
| 438    | 18.646 | 18.639 | 18.665 | HH | 169945 | 2610394  | 4.92%  | 0.073% |
| 439    | 18.669 | 18.665 | 18.678 | HH | 159586 | 1293526  | 2.44%  | 0.036% |
| 440    | 18.686 | 18.678 | 18.706 | HH | 159583 | 2573531  | 4.85%  | 0.072% |
| 441    | 18.719 | 18.706 | 18.737 | HH | 156840 | 2869363  | 5.41%  | 0.080% |
| 442    | 18.772 | 18.737 | 18.797 | HH | 181461 | 6076641  | 11.46% | 0.170% |
| 443    | 18.814 | 18.797 | 18.839 | HH | 168540 | 4023720  | 7.59%  | 0.113% |
| 444    | 18.845 | 18.839 | 18.887 | HH | 151450 | 4186741  | 7.90%  | 0.117% |
| 445    | 18.908 | 18.887 | 18.923 | HH | 144555 | 3010352  | 5.68%  | 0.084% |
| 446    | 18.945 | 18.923 | 18.962 | HH | 143395 | 3311549  | 6.25%  | 0.093% |
| 447    | 18.982 | 18.962 | 18.997 | HH | 145050 | 2974682  | 5.61%  | 0.083% |
| 448    | 19.014 | 18.997 | 19.039 | HH | 142702 | 3518088  | 6.64%  | 0.099% |
| 449    | 19.045 | 19.039 | 19.068 | HH | 137673 | 2368627  | 4.47%  | 0.066% |
| 450    | 19.070 | 19.068 | 19.083 | HH | 134199 | 1156324  | 2.18%  | 0.032% |
| 451    | 19.097 | 19.083 | 19.136 | HH | 140328 | 4166886  | 7.86%  | 0.117% |
| 452    | 19.158 | 19.136 | 19.185 | HH | 128453 | 3747704  | 7.07%  | 0.105% |
| 453    | 19.192 | 19.185 | 19.204 | HH | 122784 | 1364667  | 2.57%  | 0.038% |
| 454    | 19.237 | 19.204 | 19.308 | HH | 122479 | 7332889  | 13.83% | 0.205% |
| 455    | 19.315 | 19.308 | 19.326 | HH | 112870 | 1173293  | 2.21%  | 0.033% |
| 456    | 19.337 | 19.326 | 19.365 | HH | 111696 | 2587019  | 4.88%  | 0.072% |

Instrument :  
FID\_F  
ClientSampleId :  
HAM-WC-L-VB01

Manual Integrations  
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| rteres |        |        |        |    |        |         |       |        |
|--------|--------|--------|--------|----|--------|---------|-------|--------|
| 457    | 19.368 | 19.365 | 19.387 | HH | 108822 | 1475780 | 2.78% | 0.041% |
| 458    | 19.392 | 19.387 | 19.399 | HH | 106416 | 767427  | 1.45% | 0.022% |
| 459    | 19.407 | 19.399 | 19.412 | HH | 107561 | 820052  | 1.55% | 0.023% |
| 460    | 19.444 | 19.412 | 19.450 | HH | 111507 | 2489064 | 4.69% | 0.070% |
| 461    | 19.455 | 19.450 | 19.461 | HH | 111585 | 703677  | 1.33% | 0.020% |
| 462    | 19.472 | 19.461 | 19.529 | HH | 114764 | 4392071 | 8.28% | 0.123% |
| 463    | 19.541 | 19.529 | 19.546 | HH | 103221 | 1011240 | 1.91% | 0.028% |
| 464    | 19.569 | 19.546 | 19.584 | HH | 108917 | 2458522 | 4.64% | 0.069% |
| 465    | 19.596 | 19.584 | 19.601 | HH | 108195 | 1097732 | 2.07% | 0.031% |
| 466    | 19.643 | 19.601 | 19.651 | HH | 112627 | 3264519 | 6.16% | 0.091% |
| 467    | 19.666 | 19.651 | 19.695 | HH | 113012 | 2984228 | 5.63% | 0.084% |
| 468    | 19.701 | 19.695 | 19.757 | HH | 110447 | 3897713 | 7.35% | 0.109% |
| 469    | 19.787 | 19.757 | 19.808 | HH | 101151 | 3034556 | 5.72% | 0.085% |
| 470    | 19.813 | 19.808 | 19.842 | HH | 99779  | 1999505 | 3.77% | 0.056% |
| 471    | 19.851 | 19.842 | 19.856 | HH | 98376  | 815004  | 1.54% | 0.023% |
| 472    | 19.862 | 19.856 | 19.898 | HH | 97841  | 2337514 | 4.41% | 0.065% |
| 473    | 19.903 | 19.898 | 19.920 | HH | 86574  | 1114117 | 2.10% | 0.031% |
| 474    | 19.923 | 19.920 | 19.932 | HH | 84108  | 604371  | 1.14% | 0.017% |
| 475    | 19.974 | 19.932 | 19.987 | HH | 92338  | 2925445 | 5.52% | 0.082% |
| 476    | 19.992 | 19.987 | 20.046 | HH | 88505  | 2916990 | 5.50% | 0.082% |
| 477    | 20.050 | 20.046 | 20.054 | HH | 79419  | 389639  | 0.73% | 0.011% |
| 478    | 20.066 | 20.054 | 20.081 | HH | 80499  | 1265065 | 2.39% | 0.035% |
| 479    | 20.085 | 20.081 | 20.091 | HH | 79526  | 499582  | 0.94% | 0.014% |
| 480    | 20.096 | 20.091 | 20.106 | HH | 79650  | 680289  | 1.28% | 0.019% |
| 481    | 20.116 | 20.106 | 20.142 | HH | 78213  | 1707526 | 3.22% | 0.048% |
| 482    | 20.145 | 20.142 | 20.151 | HH | 77529  | 404413  | 0.76% | 0.011% |
| 483    | 20.156 | 20.151 | 20.172 | HH | 76803  | 967686  | 1.83% | 0.027% |
| 484    | 20.177 | 20.172 | 20.186 | HH | 75547  | 600080  | 1.13% | 0.017% |
| 485    | 20.207 | 20.186 | 20.214 | HH | 78152  | 1293201 | 2.44% | 0.036% |
| 486    | 20.224 | 20.214 | 20.244 | HH | 77888  | 1371329 | 2.59% | 0.038% |
| 487    | 20.251 | 20.244 | 20.276 | HH | 76383  | 1422056 | 2.68% | 0.040% |
| 488    | 20.287 | 20.276 | 20.299 | HH | 73544  | 1016466 | 1.92% | 0.028% |
| 489    | 20.341 | 20.299 | 20.381 | HH | 76775  | 3625401 | 6.84% | 0.102% |
| 490    | 20.388 | 20.381 | 20.402 | HH | 72459  | 914695  | 1.73% | 0.026% |
| 491    | 20.406 | 20.402 | 20.427 | HH | 70779  | 1029142 | 1.94% | 0.029% |
| 492    | 20.433 | 20.427 | 20.461 | HH | 70074  | 1401148 | 2.64% | 0.039% |
| 493    | 20.467 | 20.461 | 20.479 | HH | 67576  | 723486  | 1.36% | 0.020% |
| 494    | 20.498 | 20.479 | 20.508 | HH | 67069  | 1173896 | 2.21% | 0.033% |
| 495    | 20.518 | 20.508 | 20.528 | HH | 66458  | 797434  | 1.50% | 0.022% |
| 496    | 20.535 | 20.528 | 20.553 | HH | 66942  | 968662  | 1.83% | 0.027% |
| 497    | 20.560 | 20.553 | 20.578 | HH | 66948  | 988624  | 1.86% | 0.028% |
| 498    | 20.582 | 20.578 | 20.608 | HH | 66478  | 1199988 | 2.26% | 0.034% |
| 499    | 20.623 | 20.608 | 20.642 | HH | 65356  | 1327952 | 2.50% | 0.037% |
| 500    | 20.654 | 20.642 | 20.672 | HH | 65135  | 1153667 | 2.18% | 0.032% |
| 501    | 20.699 | 20.672 | 20.751 | HH | 65964  | 3006488 | 5.67% | 0.084% |
| 502    | 20.757 | 20.751 | 20.762 | HH | 61299  | 418612  | 0.79% | 0.012% |
| 503    | 20.771 | 20.762 | 20.785 | HH | 62016  | 818822  | 1.54% | 0.023% |
| 504    | 20.793 | 20.785 | 20.805 | HH | 61462  | 724967  | 1.37% | 0.020% |
| 505    | 20.809 | 20.805 | 20.815 | HH | 60305  | 365165  | 0.69% | 0.010% |
| 506    | 20.822 | 20.815 | 20.850 | HH | 60508  | 1287473 | 2.43% | 0.036% |
| 507    | 20.859 | 20.850 | 20.870 | HH | 60439  | 704943  | 1.33% | 0.020% |
| 508    | 20.888 | 20.870 | 20.897 | HH | 60128  | 984054  | 1.86% | 0.028% |
| 509    | 20.905 | 20.897 | 20.938 | HH | 59947  | 1441586 | 2.72% | 0.040% |

Instrument :  
FID\_F  
ClientSampleId :  
HAM-WC-L-VB01

Manual Integrations  
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Instrument :  
FID\_F  
ClientSampleId :  
HAM-WC-L-VB01

Manual Integrations  
APPROVED

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9/3/2020 10:42:42 AM

| rteres |        |        |        |    |       |         |       |        |
|--------|--------|--------|--------|----|-------|---------|-------|--------|
| 510    | 20.946 | 20.938 | 20.990 | HH | 58306 | 1769354 | 3.34% | 0.050% |
| 511    | 21.003 | 20.990 | 21.034 | HH | 56669 | 1484575 | 2.80% | 0.042% |
| 512    | 21.041 | 21.034 | 21.056 | HH | 55963 | 722449  | 1.36% | 0.020% |
| 513    | 21.061 | 21.056 | 21.087 | HH | 55108 | 1027142 | 1.94% | 0.029% |
| 514    | 21.095 | 21.087 | 21.112 | HH | 55083 | 823932  | 1.55% | 0.023% |
| 515    | 21.117 | 21.112 | 21.126 | HH | 53831 | 429918  | 0.81% | 0.012% |
| 516    | 21.134 | 21.126 | 21.153 | HH | 53616 | 874898  | 1.65% | 0.025% |
| 517    | 21.158 | 21.153 | 21.176 | HH | 52869 | 711190  | 1.34% | 0.020% |
| 518    | 21.188 | 21.176 | 21.212 | HH | 52611 | 1123533 | 2.12% | 0.031% |
| 519    | 21.262 | 21.212 | 21.304 | HH | 54683 | 2915067 | 5.50% | 0.082% |
| 520    | 21.333 | 21.304 | 21.349 | HH | 51208 | 1350359 | 2.55% | 0.038% |
| 521    | 21.356 | 21.349 | 21.362 | HH | 50182 | 399598  | 0.75% | 0.011% |
| 522    | 21.369 | 21.362 | 21.377 | HH | 49997 | 448498  | 0.85% | 0.013% |
| 523    | 21.387 | 21.377 | 21.395 | HH | 50171 | 527898  | 1.00% | 0.015% |
| 524    | 21.406 | 21.395 | 21.448 | HH | 49871 | 1575595 | 2.97% | 0.044% |
| 525    | 21.457 | 21.448 | 21.478 | HH | 48596 | 842248  | 1.59% | 0.024% |
| 526    | 21.491 | 21.478 | 21.501 | HH | 48904 | 673397  | 1.27% | 0.019% |
| 527    | 21.507 | 21.501 | 21.539 | HH | 47868 | 1089327 | 2.05% | 0.031% |
| 528    | 21.550 | 21.539 | 21.572 | HH | 47285 | 924414  | 1.74% | 0.026% |
| 529    | 21.580 | 21.572 | 21.617 | HH | 47063 | 1254663 | 2.37% | 0.035% |
| 530    | 21.633 | 21.617 | 21.669 | HH | 46662 | 1432457 | 2.70% | 0.040% |
| 531    | 21.672 | 21.669 | 21.686 | HH | 45297 | 458276  | 0.86% | 0.013% |
| 532    | 21.702 | 21.686 | 21.719 | HH | 45422 | 894762  | 1.69% | 0.025% |
| 533    | 21.723 | 21.719 | 21.729 | HH | 44865 | 268493  | 0.51% | 0.008% |
| 534    | 21.742 | 21.729 | 21.749 | HH | 45117 | 539590  | 1.02% | 0.015% |
| 535    | 21.754 | 21.749 | 21.785 | HH | 45183 | 958075  | 1.81% | 0.027% |
| 536    | 21.790 | 21.785 | 21.809 | HH | 44435 | 641889  | 1.21% | 0.018% |
| 537    | 21.812 | 21.809 | 21.820 | HH | 43975 | 299731  | 0.57% | 0.008% |
| 538    | 21.847 | 21.820 | 21.867 | HH | 44608 | 1242889 | 2.34% | 0.035% |
| 539    | 21.917 | 21.867 | 21.973 | HH | 46476 | 2839058 | 5.36% | 0.080% |

Sum of corrected areas: 3569283456

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