

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_D\Data\FD042320AR\  
 Data File : FD033166.D  
 Signal(s) : FID2B.CH  
 Acq On : 24 Apr 2020 2:12  
 Sample : L2314-01  
 Misc :  
 ALS Vial : 75 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_D\methods\Aromatic EPH 040620.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         | 4.465       | 4.424        | 4.487      | VV       | 837            | 11446        | 0.17%          | 0.031%        |
| 2         | 4.512       | 4.487        | 4.531      | PV       | 1299           | 13828        | 0.21%          | 0.037%        |
| 3         | 4.578       | 4.531        | 4.605      | VV       | 1177           | 19062        | 0.29%          | 0.051%        |
| 4         | 4.776       | 4.757        | 4.849      | VV       | 918            | 18390        | 0.28%          | 0.049%        |
| 5         | 4.989       | 4.969        | 5.014      | VV       | 6168           | 58373        | 0.89%          | 0.157%        |
| 6         | 5.047       | 5.014        | 5.065      | PV       | 2929           | 28393        | 0.43%          | 0.076%        |
| 7         | 5.181       | 5.144        | 5.205      | BV       | 1262           | 16406        | 0.25%          | 0.044%        |
| 8         | 5.221       | 5.205        | 5.249      | VV       | 964            | 11958        | 0.18%          | 0.032%        |
| 9         | 5.357       | 5.319        | 5.377      | PV       | 1968           | 34891        | 0.53%          | 0.094%        |
| 10        | 5.433       | 5.377        | 5.456      | VV       | 5914           | 83232        | 1.26%          | 0.224%        |
| 11        | 5.489       | 5.456        | 5.520      | VV       | 2886           | 34170        | 0.52%          | 0.092%        |
| 12        | 5.553       | 5.520        | 5.595      | VB       | 971            | 21556        | 0.33%          | 0.058%        |
| 13        | 5.940       | 5.916        | 6.010      | VV       | 19097          | 213006       | 3.24%          | 0.573%        |
| 14        | 6.088       | 6.049        | 6.137      | VV       | 1556           | 26134        | 0.40%          | 0.070%        |
| 15        | 6.324       | 6.275        | 6.349      | VV       | 1333           | 23669        | 0.36%          | 0.064%        |
| 16        | 6.368       | 6.349        | 6.395      | PV       | 2387           | 27104        | 0.41%          | 0.073%        |
| 17        | 6.920       | 6.872        | 6.955      | VV       | 1462           | 32230        | 0.49%          | 0.087%        |
| 18        | 6.990       | 6.955        | 7.055      | VV       | 7050           | 95701        | 1.45%          | 0.257%        |
| 19        | 7.124       | 7.103        | 7.133      | VV       | 4911           | 48499        | 0.74%          | 0.130%        |
| 20        | 7.144       | 7.133        | 7.177      | VB       | 5431           | 59315        | 0.90%          | 0.160%        |
| 21        | 7.222       | 7.197        | 7.250      | BV       | 1372           | 16564        | 0.25%          | 0.045%        |
| 22        | 7.276       | 7.250        | 7.317      | VV       | 1989           | 34109        | 0.52%          | 0.092%        |
| 23        | 7.348       | 7.317        | 7.399      | VV       | 2649           | 37672        | 0.57%          | 0.101%        |
| 24        | 7.492       | 7.450        | 7.525      | VV       | 1323           | 30721        | 0.47%          | 0.083%        |
| 25        | 7.546       | 7.525        | 7.564      | VV       | 5757           | 62838        | 0.95%          | 0.169%        |
| 26        | 7.597       | 7.564        | 7.662      | VV       | 662673         | 6579938      | 100.00%        | 17.701%       |
| 27        | 7.712       | 7.662        | 7.745      | VV       | 4907           | 119207       | 1.81%          | 0.321%        |
| 28        | 7.870       | 7.824        | 7.897      | VV       | 1531           | 40134        | 0.61%          | 0.108%        |
| 29        | 7.975       | 7.930        | 8.037      | VV       | 3120           | 87193        | 1.33%          | 0.235%        |
| 30        | 8.079       | 8.037        | 8.094      | VV       | 5069           | 64481        | 0.98%          | 0.173%        |
| 31        | 8.107       | 8.094        | 8.126      | VV       | 3625           | 44369        | 0.67%          | 0.119%        |
| 32        | 8.150       | 8.126        | 8.177      | VV       | 3193           | 49383        | 0.75%          | 0.133%        |
| 33        | 8.261       | 8.209        | 8.295      | VV       | 7925           | 130289       | 1.98%          | 0.351%        |
| 34        | 8.351       | 8.325        | 8.377      | VV       | 1649           | 22378        | 0.34%          | 0.060%        |
| 35        | 8.460       | 8.410        | 8.538      | PV       | 427478         | 4407462      | 66.98%         | 11.857%       |
| 36        | 8.555       | 8.538        | 8.584      | VV       | 3936           | 64922        | 0.99%          | 0.175%        |

|    |        |        |        |    | rteres |         |        |         |
|----|--------|--------|--------|----|--------|---------|--------|---------|
| 37 | 8.604  | 8.584  | 8.644  | VV | 2304   | 53126   | 0.81%  | 0.143%  |
| 38 | 8.679  | 8.644  | 8.721  | VV | 1587   | 57449   | 0.87%  | 0.155%  |
| 39 | 8.739  | 8.721  | 8.765  | VV | 2511   | 34612   | 0.53%  | 0.093%  |
| 40 | 8.791  | 8.765  | 8.813  | VV | 2733   | 43768   | 0.67%  | 0.118%  |
| 41 | 8.831  | 8.813  | 8.850  | VV | 2070   | 30687   | 0.47%  | 0.083%  |
| 42 | 8.880  | 8.850  | 8.940  | VV | 20455  | 317144  | 4.82%  | 0.853%  |
| 43 | 8.973  | 8.940  | 9.042  | VV | 40371  | 560505  | 8.52%  | 1.508%  |
| 44 | 9.059  | 9.042  | 9.073  | VV | 2090   | 25535   | 0.39%  | 0.069%  |
| 45 | 9.092  | 9.073  | 9.108  | VV | 5745   | 69157   | 1.05%  | 0.186%  |
| 46 | 9.116  | 9.108  | 9.135  | VV | 2838   | 31880   | 0.48%  | 0.086%  |
| 47 | 9.155  | 9.135  | 9.190  | VV | 2950   | 61817   | 0.94%  | 0.166%  |
| 48 | 9.203  | 9.190  | 9.214  | VV | 1631   | 19211   | 0.29%  | 0.052%  |
| 49 | 9.228  | 9.214  | 9.239  | VV | 2233   | 24616   | 0.37%  | 0.066%  |
| 50 | 9.254  | 9.239  | 9.277  | VV | 2727   | 40908   | 0.62%  | 0.110%  |
| 51 | 9.294  | 9.277  | 9.308  | VV | 1855   | 21835   | 0.33%  | 0.059%  |
| 52 | 9.333  | 9.308  | 9.385  | VV | 8177   | 151744  | 2.31%  | 0.408%  |
| 53 | 9.410  | 9.385  | 9.447  | VV | 3416   | 66766   | 1.01%  | 0.180%  |
| 54 | 9.481  | 9.447  | 9.501  | VV | 2913   | 50635   | 0.77%  | 0.136%  |
| 55 | 9.516  | 9.501  | 9.529  | VV | 1591   | 20520   | 0.31%  | 0.055%  |
| 56 | 9.542  | 9.529  | 9.555  | VV | 1526   | 21732   | 0.33%  | 0.058%  |
| 57 | 9.579  | 9.555  | 9.620  | VV | 1709   | 48008   | 0.73%  | 0.129%  |
| 58 | 9.658  | 9.620  | 9.680  | VV | 2653   | 61639   | 0.94%  | 0.166%  |
| 59 | 9.742  | 9.720  | 9.764  | VV | 3651   | 53900   | 0.82%  | 0.145%  |
| 60 | 9.775  | 9.764  | 9.807  | VV | 2065   | 36328   | 0.55%  | 0.098%  |
| 61 | 9.841  | 9.807  | 9.866  | VV | 6182   | 82543   | 1.25%  | 0.222%  |
| 62 | 9.908  | 9.866  | 9.960  | VV | 3753   | 67806   | 1.03%  | 0.182%  |
| 63 | 9.982  | 9.960  | 10.004 | PV | 2437   | 26583   | 0.40%  | 0.072%  |
| 64 | 10.077 | 10.004 | 10.100 | VV | 1633   | 29838   | 0.45%  | 0.080%  |
| 65 | 10.135 | 10.100 | 10.154 | VV | 5242   | 73481   | 1.12%  | 0.198%  |
| 66 | 10.184 | 10.154 | 10.202 | VV | 9087   | 134102  | 2.04%  | 0.361%  |
| 67 | 10.212 | 10.202 | 10.235 | VV | 3651   | 46695   | 0.71%  | 0.126%  |
| 68 | 10.252 | 10.235 | 10.299 | VV | 2677   | 45464   | 0.69%  | 0.122%  |
| 69 | 10.327 | 10.299 | 10.367 | VV | 2339   | 48847   | 0.74%  | 0.131%  |
| 70 | 10.395 | 10.367 | 10.440 | VV | 5621   | 103372  | 1.57%  | 0.278%  |
| 71 | 10.475 | 10.440 | 10.512 | VV | 3520   | 84662   | 1.29%  | 0.228%  |
| 72 | 10.539 | 10.512 | 10.570 | VV | 3696   | 74727   | 1.14%  | 0.201%  |
| 73 | 10.599 | 10.570 | 10.614 | VV | 4471   | 69788   | 1.06%  | 0.188%  |
| 74 | 10.626 | 10.614 | 10.650 | VV | 4208   | 49028   | 0.75%  | 0.132%  |
| 75 | 10.806 | 10.777 | 10.839 | VV | 8886   | 124421  | 1.89%  | 0.335%  |
| 76 | 10.861 | 10.839 | 10.875 | VV | 2763   | 39313   | 0.60%  | 0.106%  |
| 77 | 10.902 | 10.875 | 10.943 | VV | 3327   | 69032   | 1.05%  | 0.186%  |
| 78 | 11.033 | 10.992 | 11.049 | VV | 2506   | 44649   | 0.68%  | 0.120%  |
| 79 | 11.069 | 11.049 | 11.100 | VV | 6911   | 100180  | 1.52%  | 0.270%  |
| 80 | 11.120 | 11.100 | 11.148 | VV | 4152   | 63249   | 0.96%  | 0.170%  |
| 81 | 11.176 | 11.148 | 11.207 | VV | 2613   | 51370   | 0.78%  | 0.138%  |
| 82 | 11.256 | 11.207 | 11.296 | VV | 3710   | 109083  | 1.66%  | 0.293%  |
| 83 | 11.323 | 11.296 | 11.349 | VV | 3050   | 49009   | 0.74%  | 0.132%  |
| 84 | 11.378 | 11.349 | 11.397 | VV | 2809   | 44495   | 0.68%  | 0.120%  |
| 85 | 11.492 | 11.442 | 11.517 | VV | 442729 | 4764639 | 72.41% | 12.818% |
| 86 | 11.527 | 11.517 | 11.543 | VV | 10592  | 115228  | 1.75%  | 0.310%  |
| 87 | 11.560 | 11.543 | 11.587 | VV | 12198  | 159304  | 2.42%  | 0.429%  |
| 88 | 11.644 | 11.587 | 11.656 | VV | 7520   | 181649  | 2.76%  | 0.489%  |
| 89 | 11.673 | 11.656 | 11.691 | VV | 12876  | 174755  | 2.66%  | 0.470%  |

|     |        |        |        |    |        |        |       |        |
|-----|--------|--------|--------|----|--------|--------|-------|--------|
|     |        |        |        |    | rteres |        |       |        |
| 90  | 11.707 | 11.691 | 11.747 | VV | 9216   | 120983 | 1.84% | 0.325% |
| 91  | 11.838 | 11.794 | 11.882 | VV | 2290   | 75746  | 1.15% | 0.204% |
| 92  | 11.930 | 11.882 | 11.960 | VV | 4434   | 83212  | 1.26% | 0.224% |
| 93  | 12.001 | 11.960 | 12.022 | VV | 4016   | 61389  | 0.93% | 0.165% |
| 94  | 12.030 | 12.022 | 12.044 | VV | 1479   | 16650  | 0.25% | 0.045% |
| 95  | 12.063 | 12.044 | 12.077 | VV | 2894   | 41382  | 0.63% | 0.111% |
| 96  | 12.089 | 12.077 | 12.125 | VV | 2117   | 49864  | 0.76% | 0.134% |
| 97  | 12.141 | 12.125 | 12.157 | VV | 1700   | 24388  | 0.37% | 0.066% |
| 98  | 12.194 | 12.157 | 12.207 | VV | 6235   | 96951  | 1.47% | 0.261% |
| 99  | 12.239 | 12.207 | 12.299 | VV | 8192   | 234118 | 3.56% | 0.630% |
| 100 | 12.318 | 12.299 | 12.359 | VV | 5238   | 102441 | 1.56% | 0.276% |
| 101 | 12.417 | 12.359 | 12.442 | VV | 12703  | 303081 | 4.61% | 0.815% |
| 102 | 12.459 | 12.442 | 12.470 | VV | 5148   | 68495  | 1.04% | 0.184% |
| 103 | 12.638 | 12.611 | 12.655 | VV | 1796   | 26610  | 0.40% | 0.072% |
| 104 | 12.678 | 12.655 | 12.710 | VV | 3270   | 72782  | 1.11% | 0.196% |
| 105 | 12.728 | 12.710 | 12.768 | VV | 4676   | 90466  | 1.37% | 0.243% |
| 106 | 12.865 | 12.857 | 12.882 | VV | 5738   | 61553  | 0.94% | 0.166% |
| 107 | 12.974 | 12.955 | 12.993 | VV | 1700   | 30438  | 0.46% | 0.082% |
| 108 | 13.011 | 12.993 | 13.062 | VV | 1954   | 40474  | 0.62% | 0.109% |
| 109 | 13.109 | 13.062 | 13.144 | VV | 3222   | 87630  | 1.33% | 0.236% |
| 110 | 13.165 | 13.144 | 13.210 | VV | 3424   | 52665  | 0.80% | 0.142% |
| 111 | 13.231 | 13.210 | 13.242 | PV | 1992   | 23998  | 0.36% | 0.065% |
| 112 | 13.257 | 13.242 | 13.274 | VV | 2554   | 38306  | 0.58% | 0.103% |
| 113 | 13.296 | 13.274 | 13.364 | VV | 8752   | 155039 | 2.36% | 0.417% |
| 114 | 13.423 | 13.364 | 13.472 | VV | 9977   | 217755 | 3.31% | 0.586% |
| 115 | 13.491 | 13.472 | 13.509 | VV | 2479   | 31346  | 0.48% | 0.084% |
| 116 | 13.531 | 13.509 | 13.551 | VV | 8700   | 108683 | 1.65% | 0.292% |
| 117 | 13.570 | 13.551 | 13.593 | VV | 8383   | 114153 | 1.73% | 0.307% |
| 118 | 13.609 | 13.593 | 13.639 | VV | 2643   | 45045  | 0.68% | 0.121% |
| 119 | 13.698 | 13.639 | 13.722 | VV | 9819   | 207642 | 3.16% | 0.559% |
| 120 | 13.739 | 13.722 | 13.802 | VV | 7622   | 124479 | 1.89% | 0.335% |
| 121 | 13.877 | 13.844 | 13.919 | VV | 1059   | 26181  | 0.40% | 0.070% |
| 122 | 13.943 | 13.919 | 13.987 | VV | 3514   | 48930  | 0.74% | 0.132% |
| 123 | 14.035 | 14.018 | 14.074 | VV | 974    | 20380  | 0.31% | 0.055% |
| 124 | 14.107 | 14.074 | 14.144 | VV | 4205   | 110965 | 1.69% | 0.299% |
| 125 | 14.164 | 14.144 | 14.199 | VV | 4538   | 86654  | 1.32% | 0.233% |
| 126 | 14.228 | 14.199 | 14.245 | VV | 3848   | 66706  | 1.01% | 0.179% |
| 127 | 14.258 | 14.245 | 14.283 | VV | 3861   | 63728  | 0.97% | 0.171% |
| 128 | 14.335 | 14.309 | 14.349 | VV | 5034   | 69997  | 1.06% | 0.188% |
| 129 | 14.357 | 14.349 | 14.374 | VV | 3726   | 43701  | 0.66% | 0.118% |
| 130 | 14.395 | 14.374 | 14.417 | VV | 9931   | 137408 | 2.09% | 0.370% |
| 131 | 14.427 | 14.417 | 14.446 | VV | 2482   | 33025  | 0.50% | 0.089% |
| 132 | 14.466 | 14.446 | 14.496 | VV | 2058   | 43162  | 0.66% | 0.116% |
| 133 | 14.518 | 14.496 | 14.538 | VV | 2396   | 39106  | 0.59% | 0.105% |
| 134 | 14.556 | 14.538 | 14.568 | VV | 2152   | 31396  | 0.48% | 0.084% |
| 135 | 14.583 | 14.568 | 14.632 | VV | 2312   | 43300  | 0.66% | 0.116% |
| 136 | 14.810 | 14.784 | 14.830 | VV | 2283   | 44937  | 0.68% | 0.121% |
| 137 | 14.866 | 14.830 | 14.949 | VV | 4320   | 163121 | 2.48% | 0.439% |
| 138 | 14.965 | 14.949 | 14.989 | VV | 1385   | 25085  | 0.38% | 0.067% |
| 139 | 15.015 | 14.989 | 15.044 | VV | 4106   | 80758  | 1.23% | 0.217% |
| 140 | 15.057 | 15.044 | 15.082 | VV | 2175   | 41151  | 0.63% | 0.111% |
| 141 | 15.165 | 15.082 | 15.232 | VV | 3058   | 155916 | 2.37% | 0.419% |

|     |        |        |        |    | rteres |        |        |        |
|-----|--------|--------|--------|----|--------|--------|--------|--------|
| 142 | 15.293 | 15.232 | 15.313 | VV | 4316   | 129707 | 1.97%  | 0.349% |
| 143 | 15.333 | 15.313 | 15.354 | VV | 4462   | 84265  | 1.28%  | 0.227% |
| 144 | 15.377 | 15.354 | 15.397 | VV | 13784  | 193219 | 2.94%  | 0.520% |
| 145 | 15.421 | 15.397 | 15.450 | VV | 15480  | 261615 | 3.98%  | 0.704% |
|     |        |        |        |    |        |        |        |        |
| 146 | 15.497 | 15.450 | 15.517 | VV | 9201   | 221245 | 3.36%  | 0.595% |
| 147 | 15.538 | 15.517 | 15.589 | VV | 8631   | 208662 | 3.17%  | 0.561% |
| 148 | 15.661 | 15.589 | 15.680 | VV | 14982  | 375759 | 5.71%  | 1.011% |
| 149 | 15.701 | 15.680 | 15.727 | VV | 19350  | 300054 | 4.56%  | 0.807% |
| 150 | 15.774 | 15.748 | 15.813 | VV | 17172  | 268063 | 4.07%  | 0.721% |
|     |        |        |        |    |        |        |        |        |
| 151 | 15.868 | 15.813 | 15.887 | VV | 41053  | 835742 | 12.70% | 2.248% |
| 152 | 15.904 | 15.887 | 15.935 | VV | 39642  | 578273 | 8.79%  | 1.556% |
| 153 | 15.963 | 15.935 | 15.995 | VV | 31485  | 421700 | 6.41%  | 1.134% |
| 154 | 16.011 | 15.995 | 16.032 | VV | 2777   | 37290  | 0.57%  | 0.100% |
| 155 | 16.068 | 16.032 | 16.079 | VV | 28372  | 380508 | 5.78%  | 1.024% |
|     |        |        |        |    |        |        |        |        |
| 156 | 16.089 | 16.079 | 16.134 | VV | 27710  | 370706 | 5.63%  | 0.997% |
| 157 | 16.172 | 16.134 | 16.195 | VV | 4590   | 101838 | 1.55%  | 0.274% |
| 158 | 16.224 | 16.195 | 16.242 | VV | 33898  | 453353 | 6.89%  | 1.220% |
| 159 | 16.260 | 16.242 | 16.319 | VV | 34356  | 675081 | 10.26% | 1.816% |
| 160 | 16.415 | 16.365 | 16.467 | VV | 49651  | 755719 | 11.49% | 2.033% |
|     |        |        |        |    |        |        |        |        |
| 161 | 16.497 | 16.467 | 16.527 | VV | 54310  | 707177 | 10.75% | 1.902% |
| 162 | 16.579 | 16.527 | 16.612 | VV | 19718  | 329069 | 5.00%  | 0.885% |
| 163 | 16.638 | 16.612 | 16.675 | VV | 24356  | 318197 | 4.84%  | 0.856% |
| 164 | 16.694 | 16.675 | 16.708 | VV | 2265   | 33259  | 0.51%  | 0.089% |
| 165 | 16.738 | 16.708 | 16.767 | VV | 7150   | 129704 | 1.97%  | 0.349% |
|     |        |        |        |    |        |        |        |        |
| 166 | 16.801 | 16.767 | 16.834 | VV | 6598   | 128671 | 1.96%  | 0.346% |
| 167 | 16.879 | 16.834 | 16.924 | VV | 3032   | 95701  | 1.45%  | 0.257% |
| 168 | 16.943 | 16.924 | 16.960 | VV | 1327   | 19325  | 0.29%  | 0.052% |
| 169 | 17.009 | 16.960 | 17.095 | VV | 4539   | 189167 | 2.87%  | 0.509% |
| 170 | 17.138 | 17.095 | 17.150 | VV | 3404   | 60257  | 0.92%  | 0.162% |
|     |        |        |        |    |        |        |        |        |
| 171 | 17.172 | 17.150 | 17.202 | VV | 6658   | 125103 | 1.90%  | 0.337% |
| 172 | 17.224 | 17.202 | 17.240 | VV | 2973   | 50914  | 0.77%  | 0.137% |
| 173 | 17.255 | 17.240 | 17.272 | VV | 3173   | 47997  | 0.73%  | 0.129% |
| 174 | 17.297 | 17.272 | 17.323 | VV | 3903   | 81404  | 1.24%  | 0.219% |
| 175 | 17.341 | 17.323 | 17.375 | VV | 2206   | 51199  | 0.78%  | 0.138% |
|     |        |        |        |    |        |        |        |        |
| 176 | 17.391 | 17.375 | 17.430 | VV | 1561   | 27925  | 0.42%  | 0.075% |
| 177 | 17.481 | 17.465 | 17.499 | PV | 784    | 8561   | 0.13%  | 0.023% |
| 178 | 17.574 | 17.520 | 17.594 | PV | 5101   | 96837  | 1.47%  | 0.261% |
| 179 | 17.610 | 17.594 | 17.658 | VV | 4479   | 97946  | 1.49%  | 0.263% |
| 180 | 17.700 | 17.658 | 17.744 | VV | 7712   | 160900 | 2.45%  | 0.433% |
|     |        |        |        |    |        |        |        |        |
| 181 | 17.754 | 17.744 | 17.767 | VV | 1435   | 18071  | 0.27%  | 0.049% |
| 182 | 17.788 | 17.767 | 17.825 | VV | 3026   | 67135  | 1.02%  | 0.181% |
| 183 | 17.843 | 17.825 | 17.882 | VV | 1313   | 35136  | 0.53%  | 0.095% |
| 184 | 17.915 | 17.882 | 17.975 | VV | 7930   | 208547 | 3.17%  | 0.561% |
| 185 | 18.008 | 17.975 | 18.020 | PV | 19171  | 264264 | 4.02%  | 0.711% |
|     |        |        |        |    |        |        |        |        |
| 186 | 18.038 | 18.020 | 18.112 | VV | 18456  | 717689 | 10.91% | 1.931% |
| 187 | 18.135 | 18.112 | 18.155 | VV | 9807   | 210330 | 3.20%  | 0.566% |
| 188 | 18.168 | 18.155 | 18.234 | VV | 7460   | 179999 | 2.74%  | 0.484% |
| 189 | 18.258 | 18.234 | 18.287 | VV | 18411  | 250252 | 3.80%  | 0.673% |
| 190 | 18.300 | 18.287 | 18.324 | VV | 1814   | 24944  | 0.38%  | 0.067% |

Sum of corrected areas: 37171712