

APPENDIX VII. Duty Cycle  
Test Result

| Mode             | Data rates | Channel | Antenna | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle (linear) | Duty Cycle Factor (dB) | 1/T       |
|------------------|------------|---------|---------|--------------|-------------|----------------|---------------------|------------------------|-----------|
| IEEE 802.11a     | 54         | 36      | 1       | 0.177        | 0.302       | 58.57          | 0.5857              | 2.3232                 | 5.6497    |
|                  |            | 40      |         | 0.177        | 0.293       | 60.49          | 0.6049              | 2.1832                 | 5.6497    |
|                  |            | 48      |         | 0.177        | 0.293       | 60.44          | 0.6044              | 2.1868                 | 5.6497    |
|                  |            | 52      |         | 0.177        | 0.293       | 60.44          | 0.6044              | 2.1868                 | 5.6497    |
|                  |            | 56      |         | 0.177        | 0.302       | 58.64          | 0.5864              | 2.3181                 | 5.6497    |
|                  |            | 64      |         | 0.177        | 0.293       | 60.49          | 0.6049              | 2.1832                 | 5.6497    |
|                  |            | 100     |         | 0.177        | 0.302       | 58.64          | 0.5864              | 2.3181                 | 5.6497    |
|                  |            | 120     |         | 0.177        | 0.302       | 58.67          | 0.5867              | 2.3158                 | 5.6497    |
|                  |            | 140     |         | 0.177        | 0.302       | 58.67          | 0.5867              | 2.3158                 | 5.6497    |
| IEEE 802.11n_20  | MCS 7      | 36      | 1       | 0.165        | 0.299       | 55.22          | 0.5522              | 2.579                  | 6.0606    |
|                  |            | 40      |         | 0.165        | 0.299       | 55.25          | 0.5525              | 2.5767                 | 6.0606    |
|                  |            | 48      |         | 0.165        | 0.299       | 55.25          | 0.5525              | 2.5767                 | 6.0606    |
|                  |            | 52      |         | 0.165        | 0.290       | 56.95          | 0.5695              | 2.4451                 | 6.0606    |
|                  |            | 56      |         | 0.165        | 0.290       | 56.95          | 0.5695              | 2.4451                 | 6.0606    |
|                  |            | 64      |         | 0.165        | 0.299       | 55.22          | 0.5522              | 2.579                  | 6.0606    |
|                  |            | 100     |         | 0.165        | 0.299       | 55.25          | 0.5525              | 2.5767                 | 6.0606    |
|                  |            | 120     |         | 0.165        | 0.371       | 44.49          | 0.4449              | 3.5174                 | 6.0606    |
|                  |            | 140     |         | 0.165        | 0.299       | 55.22          | 0.5522              | 2.579                  | 6.0606    |
| IEEE 802.11n_40  |            | 38      | 1       | 0.101        | 0.298       | 33.97          | 0.3397              | 4.689                  | 9.9010    |
|                  |            | 46      |         | 0.101        | 0.298       | 33.97          | 0.3397              | 4.689                  | 9.9010    |
|                  |            | 54      |         | 0.101        | 0.378       | 26.72          | 0.2672              | 5.7316                 | 9.9010    |
|                  |            | 62      |         | 0.101        | 0.298       | 33.94          | 0.3394              | 4.6929                 | 9.9010    |
|                  |            | 102     |         | 0.101        | 0.298       | 33.97          | 0.3397              | 4.689                  | 9.9010    |
|                  |            | 118     |         | 0.101        | 0.297       | 33.91          | 0.3391              | 4.6967                 | 9.9010    |
|                  |            | 134     |         | 0.101        | 0.297       | 34.00          | 0.3400              | 4.6852                 | 9.9010    |
| IEEE 802.11ac_20 |            | 36      | 1       | 0.169        | 0.294       | 57.53          | 0.5753              | 2.4011                 | 5.9172    |
|                  |            | 40      |         | 0.169        | 0.303       | 55.80          | 0.5580              | 2.5337                 | 5.9172    |
|                  |            | 48      |         | 0.169        | 0.294       | 57.59          | 0.5759              | 2.3965                 | 5.9172    |
|                  |            | 52      |         | 0.149        | 0.301       | 49.54          | 0.4954              | 3.0504                 | 6.7114    |
|                  |            | 56      |         | 0.149        | 0.301       | 49.57          | 0.4957              | 3.0478                 | 6.7114    |
|                  |            | 64      |         | 0.149        | 0.292       | 51.08          | 0.5108              | 2.9175                 | 6.7114    |
|                  |            | 100     |         | 0.149        | 0.292       | 51.08          | 0.5108              | 2.9175                 | 6.7114    |
|                  |            | 120     |         | 0.149        | 0.292       | 51.12          | 0.5112              | 2.9141                 | 6.7114    |
| IEEE 802.11ac_20 |            | 140     |         | 0.149        | 0.346       | 43.04          | 0.4304              | 3.6613                 | 6.7114    |
| IEEE 802.11ac_40 |            | 38      | 1       | 0.089        | 0.304       | 29.34          | 0.2934              | 5.3254                 | 11.2360   |
|                  |            | 46      |         | 0.089        | 0.294       | 30.10          | 0.3010              | 5.2143                 | 11.2360   |
|                  |            | 54      |         | 0.089        | 0.304       | 29.34          | 0.2934              | 5.3254                 | 11.2360   |
|                  |            | 62      |         | 0.089        | 0.304       | 29.34          | 0.2934              | 5.3254                 | 11.2360   |
|                  |            | 102     |         | 0.089        | 0.295       | 30.25          | 0.3025              | 5.1927                 | 11.2360   |
|                  |            | 118     |         | 0.089        | 0.295       | 30.25          | 0.3025              | 5.1927                 | 11.2360   |
|                  |            | 134     |         | 0.089        | 0.295       | 30.15          | 0.3015              | 5.2071                 | 11.2360   |
| IEEE 802.11ac_80 |            | 42      | 1       | 0.065        | 0.352       | 18.54          | 0.1854              | 7.3189                 | 15.3846   |
|                  |            | 58      |         | 0.001        | 0.323       | 0.16           | 0.0016              | 27.9588                | 1000.0000 |
|                  |            | 106     |         | 0.065        | 0.297       | 21.91          | 0.2191              | 6.5936                 | 15.3846   |

Test Graphs







