

## 8 CONDUCTED RF OUPUT POWER

|       |                        |
|-------|------------------------|
| 8.1   | WIFI Output Power      |
| 8.2   | Bluetooth              |
| 8.2.1 | Bluetooth Output Power |
| 8.2.2 | Bluetooth Duty Cycle   |

## 8.1 WIFI Output Power

| test Mode | Modulation   | Channel number | Fre.(MHz) | Output power(dBm) |              |              | Tune up power(dBm) |       |         | SAR Test |      |         |
|-----------|--------------|----------------|-----------|-------------------|--------------|--------------|--------------------|-------|---------|----------|------|---------|
|           |              |                |           | ANT1              | ANT2         | ANTMIMO      | ANT1               | ANT2  | ANTMIMO | ANT1     | ANT2 | ANTMIMO |
| WIFI 2.4G | 11b          | 1              | 2412      | <b>12.85</b>      | <b>11.35</b> | <b>15.17</b> | 13.00              | 13.00 | 16.00   | Yes      | Yes  | Yes     |
|           |              | 6              | 2437      | 12.33             | 11.28        | 14.85        | 13.00              | 13.00 | 16.00   | Yes      | Yes  | Yes     |
|           |              | 11             | 2462      | 12.10             | 11.03        | 14.61        | 13.00              | 13.00 | 16.00   | Yes      | Yes  | Yes     |
|           | 11g          | 1              | 2412      | <b>15.76</b>      | <b>15.82</b> | <b>18.80</b> | 16.00              | 16.00 | 19.00   | Yes      | Yes  | Yes     |
|           |              | 6              | 2437      | 15.26             | 15.37        | 18.33        | 16.00              | 16.00 | 19.00   | Yes      | Yes  | Yes     |
|           |              | 11             | 2462      | 11.26             | 10.26        | 13.80        | 12.00              | 12.00 | 15.00   | Yes      | Yes  | Yes     |
|           | HT20         | 1              | 2412      | 13.81             | 12.34        | 16.15        | 14.00              | 14.00 | 17.00   | No       | No   | No      |
|           |              | 6              | 2437      | 15.32             | 15.23        | 18.29        | 16.00              | 16.00 | 19.00   | No       | No   | No      |
|           |              | 11             | 2462      | 11.23             | 10.21        | 13.76        | 12.00              | 12.00 | 15.00   | No       | No   | No      |
|           | ax20         | 1              | 2412      | 15.92             | 15.58        | 18.76        | 16.00              | 16.00 | 19.00   | No       | No   | No      |
|           |              | 6              | 2437      | 15.42             | 15.39        | 18.42        | 16.00              | 16.00 | 19.00   | No       | No   | No      |
|           |              | 11             | 2462      | 11.27             | 10.45        | 13.89        | 12.00              | 12.00 | 15.00   | No       | No   | No      |
|           | 11ax20-RU26  | 1              | 2412      | 11.16             | 9.46         | 13.40        | 12.00              | 10.00 | 14.10   | No       | No   | No      |
|           |              | 6              | 2437      | 15.06             | 15.18        | 18.13        | 16.00              | 16.00 | 19.00   | No       | No   | No      |
|           |              | 11             | 2462      | 6.48              | 5.53         | 9.04         | 7.00               | 7.00  | 10.00   | No       | No   | No      |
|           | 11ax20-RU52  | 1              | 2412      | 15.31             | 15.10        | 18.22        | 16.00              | 16.00 | 19.00   | No       | No   | No      |
|           |              | 6              | 2437      | 14.93             | 15.19        | 18.07        | 16.00              | 16.00 | 19.00   | No       | No   | No      |
|           |              | 11             | 2462      | 15.10             | 15.41        | 18.27        | 16.00              | 16.00 | 19.00   | No       | No   | No      |
|           | 11ax20-RU106 | 1              | 2412      | 15.23             | 14.98        | 18.12        | 16.00              | 16.00 | 19.00   | No       | No   | No      |
|           |              | 6              | 2437      | 15.86             | 15.06        | 18.49        | 16.00              | 16.00 | 19.00   | No       | No   | No      |
|           |              | 11             | 2462      | 14.86             | 15.15        | 18.02        | 16.00              | 16.00 | 19.00   | No       | No   | No      |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.  
 1) SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure.  
 2) According KDB 248227, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, OFDM SAR test is not required.

| test Mode | Modulation   | Channel number | Fre.(MHz) | Output power(dBm) |              |         | Tune up power(dBm) |       |         | SAR Test |      |         |
|-----------|--------------|----------------|-----------|-------------------|--------------|---------|--------------------|-------|---------|----------|------|---------|
|           |              |                |           | ANT1              | ANT2         | ANTMIMO | ANT1               | ANT2  | ANTMIMO | ANT1     | ANT2 | ANTMIMO |
| 5.2 WIFI  | 11a          | 36             | 5180      | 10.48             | 10.64        | 13.57   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 44             | 5220      | 10.52             | 10.36        | 13.45   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 48             | 5240      | 10.42             | 10.23        | 13.34   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11n20        | 36             | 5180      | 10.39             | 10.61        | 13.51   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 44             | 5220      | 10.48             | 11.24        | 13.89   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 48             | 5240      | 11.45             | 10.99        | 14.24   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11n40        | 38             | 5190      | 10.62             | 10.62        | 13.63   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 46             | 5230      | 10.83             | 10.40        | 13.63   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ac20       | 36             | 5180      | 10.43             | 10.58        | 13.52   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 44             | 5220      | 10.49             | 10.26        | 13.39   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 48             | 5240      | 11.45             | 11.00        | 14.24   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ac40       | 38             | 5190      | 10.63             | 10.64        | 13.65   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 46             | 5230      | 10.82             | 10.27        | 13.56   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ac80       | 42             | 5210      | 10.42             | 10.28        | 13.36   | 11.00              | 11.00 | 14.00   | No       | No   | No      |
|           |              | 36             | 5180      | 10.44             | 10.71        | 13.59   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ax20       | 44             | 5220      | 10.48             | 11.31        | 13.93   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 48             | 5240      | 10.42             | 11.10        | 13.78   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 38             | 5190      | 10.95             | 11.19        | 14.08   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ax40       | 46             | 5230      | 11.01             | 10.70        | 13.87   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 42             | 5210      | 10.54             | 10.48        | 13.52   | 11.00              | 11.00 | 14.00   | No       | No   | No      |
|           | 11ax20-26RU  | 36             | 5180      | 5.41              | 5.12         | 8.28    | 6.00               | 6.00  | 9.00    | No       | No   | No      |
|           |              | 44             | 5220      | 5.45              | 5.27         | 8.37    | 6.00               | 6.00  | 9.00    | No       | No   | No      |
|           |              | 48             | 5240      | 5.52              | 5.1          | 8.33    | 6.00               | 6.00  | 9.00    | No       | No   | No      |
|           | 11ax20-52RU  | 36             | 5180      | 8.3               | 8            | 11.16   | 9.00               | 9.00  | 12.00   | No       | No   | No      |
|           |              | 44             | 5220      | 8                 | 7.64         | 10.83   | 9.00               | 9.00  | 12.00   | No       | No   | No      |
|           |              | 48             | 5240      | 8.11              | 7.6          | 10.87   | 9.00               | 9.00  | 12.00   | No       | No   | No      |
|           | 11ax20-106RU | 36             | 5180      | 10.73             | 10.87        | 13.81   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 44             | 5220      | 10.78             | 10.68        | 13.74   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 48             | 5240      | 10.88             | 10.66        | 13.78   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ax40-26RU  | 38             | 5190      | 4.76              | 4.72         | 7.75    | 6.00               | 6.00  | 9.00    | No       | No   | No      |
|           |              | 46             | 5230      | 5.01              | 4.97         | 8.00    | 6.00               | 6.00  | 9.00    | No       | No   | No      |
|           | 11ax40-52RU  | 38             | 5190      | 7.9               | 7.52         | 10.72   | 9.00               | 9.00  | 12.00   | No       | No   | No      |
|           |              | 46             | 5230      | 9.43              | 7.67         | 11.65   | 9.50               | 9.50  | 12.50   | No       | No   | No      |
|           | 11ax40-106RU | 38             | 5190      | 10.55             | 10.32        | 13.45   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 46             | 5230      | 10.94             | 10.22        | 13.61   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ax40-242RU | 38             | 5190      | 10.47             | 10.73        | 13.61   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 46             | 5230      | 10.7              | 10.35        | 13.54   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ax80-26RU  | 42             | 5210      | 5.08              | 4.87         | 7.99    | 6.00               | 6.00  | 9.00    | No       | No   | No      |
|           | 11ax80-52RU  | 42             | 5210      | 7.61              | 7.64         | 10.64   | 9.00               | 9.00  | 12.00   | No       | No   | No      |
|           | 11ax80-106RU | 42             | 5210      | 10.55             | 10.24        | 13.41   | 11.00              | 11.00 | 14.00   | No       | No   | No      |
|           | 11ax80-242RU | 42             | 5210      | 10.4              | 10.69        | 13.56   | 11.00              | 11.00 | 14.00   | No       | No   | No      |
|           | 11ax80-484RU | 42             | 5210      | 10.58             | 10.69        | 13.65   | 11.00              | 11.00 | 14.00   | No       | No   | No      |
| 5.3 WIFI  | 11a          | 52             | 5260      | 11.21             | 10.21        | 13.75   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 60             | 5300      | 11.19             | 10.90        | 14.06   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 64             | 5320      | 11.20             | 10.94        | 14.08   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11n20        | 52             | 5260      | 11.16             | 11.06        | 14.12   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 60             | 5300      | 11.15             | 10.75        | 13.96   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 64             | 5320      | 11.14             | 10.81        | 13.99   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11n40        | 54             | 5270      | <b>10.21</b>      | <b>10.17</b> | 13.20   | 11.50              | 11.50 | 14.50   | Yes      | Yes  | Yes     |
|           |              | 62             | 5310      | 11.36             | 11.50        | 14.44   | 11.50              | 11.50 | 14.50   | Yes      | Yes  | Yes     |
|           | 11ac20       | 52             | 5260      | 11.18             | 11.15        | 14.18   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 60             | 5300      | 11.17             | 10.89        | 14.04   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 64             | 5320      | 11.10             | 10.85        | 13.99   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ac40       | 54             | 5270      | 10.15             | 10.16        | 13.17   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 62             | 5310      | 11.33             | 11.30        | 14.33   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ac80       | 58             | 5290      | 8.33              | 8.51         | 11.43   | 10.00              | 10.00 | 13.00   | No       | No   | No      |
|           |              | 52             | 5260      | 11.23             | 11.30        | 14.28   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ax20       | 60             | 5300      | 11.16             | 10.96        | 14.07   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 64             | 5320      | 11.11             | 10.91        | 14.02   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 54             | 5270      | 10.52             | 10.34        | 13.44   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ax40       | 62             | 5310      | 10.52             | 10.11        | 13.33   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 58             | 5290      | 8.65              | 8.91         | 11.79   | 10.00              | 10.00 | 13.00   | No       | No   | No      |
|           | 11ax20-26RU  | 52             | 5260      | 10.37             | 9.94         | 13.17   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 60             | 5300      | 10.14             | 9.62         | 12.90   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 64             | 5320      | 10.5              | 10.11        | 13.32   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ax20-52RU  | 52             | 5260      | 10.45             | 10.34        | 13.41   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 60             | 5300      | 10.35             | 10.09        | 13.23   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 64             | 5320      | 10.64             | 10.39        | 13.53   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ax20-106RU | 52             | 5260      | 10.47             | 10.42        | 13.46   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 60             | 5300      | 10.36             | 10.11        | 13.25   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 64             | 5320      | 10.46             | 10.31        | 13.40   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ax40-26RU  | 54             | 5270      | 9.86              | 9.85         | 12.77   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 62             | 5310      | 10.02             | 9.59         | 12.82   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ax40-52RU  | 54             | 5270      | 10.25             | 10.05        | 13.16   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 62             | 5310      | 10.43             | 10.19        | 13.32   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ax40-106RU | 54             | 5270      | 10.33             | 10.23        | 13.29   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 62             | 5310      | 10.4              | 10.27        | 13.35   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           | 11ax40-242RU | 54             | 5270      | 10.14             | 10.18        | 13.17   | 11.50              | 11.50 | 14.50   | No       | No   | No      |
|           |              | 62             | 5310      | 10.02             | 11           | 13.55   | 11.50              | 11.50 | 14.50   | No       | No   | No      |

|             |              |        |      |       |       |       |       |       |       |       |     |     |     |
|-------------|--------------|--------|------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|
|             | 11ax80-26RU  | 58     | 5290 | 7.68  | 7.72  | 10.71 | 9.00  | 9.00  | 12.00 | No    | No  | No  |     |
|             | 11ax80-52RU  | 58     | 5290 | 10.25 | 10.27 | 13.27 | 11.00 | 11.00 | 14.00 | No    | No  | No  |     |
|             | 11ax80-106RU | 58     | 5290 | 10.32 | 10.37 | 13.36 | 11.00 | 11.00 | 14.00 | No    | No  | No  |     |
|             | 11ax80-242RU | 58     | 5290 | 10.11 | 10.31 | 13.22 | 11.00 | 11.00 | 14.00 | No    | No  | No  |     |
|             | 11ax80-484RU | 58     | 5290 | 10.17 | 10.29 | 13.24 | 11.00 | 11.00 | 14.00 | No    | No  | No  |     |
| 5.6G WIFI   | 11a          | 100    | 5500 | 10.76 | 11.09 | 13.94 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 116    | 5580 | 11.06 | 10.84 | 13.96 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 140    | 5700 | 11.37 | 10.68 | 14.05 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11n20        | 100    | 5500 | 10.72 | 11.16 | 13.96 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 116    | 5580 | 11.00 | 11.89 | 14.48 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 140    | 5700 | 11.42 | 10.58 | 14.03 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11n40        | 102    | 5510 | 10.79 | 11.46 | 14.15 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 118    | 5590 | 10.94 | 10.72 | 13.84 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 134    | 5670 | 11.33 | 11.13 | 14.24 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11ac20       | 100    | 5500 | 11.71 | 11.12 | 14.44 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 116    | 5580 | 11.00 | 11.88 | 14.47 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 140    | 5700 | 11.37 | 11.64 | 14.52 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11ac40       | 102    | 5510 | 10.75 | 11.42 | 14.11 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 118    | 5590 | 10.86 | 10.73 | 13.81 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 134    | 5670 | 11.35 | 11.24 | 14.31 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11ac80       | 106    | 5530 | 9.37  | 9.63  | 12.62 | 10.00 | 10.00 | 13.00 | No    | No  | No  |     |
|             |              | 122    | 5610 | 11.73 | 11.31 | 14.54 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11ac20       | 100    | 5500 | 10.89 | 11.29 | 14.10 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 116    | 5580 | 11.00 | 10.71 | 13.87 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 140    | 5700 | 11.46 | 10.84 | 14.17 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11ax40       | 102    | 5510 | 9.82  | 10.53 | 13.20 | 11.00 | 11.00 | 14.00 | No    | No  | No  |     |
|             |              | 118    | 5590 | 11.12 | 10.87 | 14.01 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 134    | 5670 | 11.35 | 11.26 | 14.32 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11ax80       | 106    | 5530 | 8.32  | 8.87  | 11.61 | 10.00 | 10.00 | 13.00 | No    | No  | No  |     |
|             |              | 122    | 5610 | 11.88 | 11.47 | 14.69 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11ax20-26RU  | 100    | 5500 | 9.76  | 8.81  | 12.32 | 10.00 | 10.00 | 13.00 | No    | No  | No  |     |
|             |              | 116    | 5580 | 10.33 | 9.86  | 13.11 | 11.00 | 11.00 | 14.00 | No    | No  | No  |     |
|             |              | 140    | 5700 | 8.13  | 7.28  | 10.74 | 9.00  | 9.00  | 12.00 | No    | No  | No  |     |
|             | 11ax20-52RU  | 100    | 5500 | 11.15 | 11.37 | 14.27 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 116    | 5580 | 11.32 | 11.04 | 14.19 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 140    | 5700 | 10.68 | 11.12 | 13.92 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11ax20-106RU | 100    | 5500 | 10.85 | 11.3  | 14.09 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 116    | 5580 | 11.35 | 10.97 | 14.17 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 140    | 5700 | 11.81 | 11.07 | 14.47 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11ax40-26RU  | 102    | 5510 | 9.31  | 8.47  | 11.92 | 10.00 | 10.00 | 13.00 | No    | No  | No  |     |
|             |              | 118    | 5590 | 9.74  | 9.54  | 12.65 | 10.00 | 10.00 | 13.00 | No    | No  | No  |     |
|             |              | 134    | 5670 | 9.06  | 8.59  | 11.84 | 10.00 | 10.00 | 13.00 | No    | No  | No  |     |
|             | 11ax40-52RU  | 102    | 5510 | 11.74 | 11.01 | 14.40 | 13.00 | 13.00 | 16.00 | No    | No  | No  |     |
|             |              | 118    | 5590 | 11.95 | 11.96 | 14.97 | 13.00 | 13.00 | 16.00 | No    | No  | No  |     |
|             |              | 134    | 5670 | 11.82 | 11.26 | 14.56 | 13.00 | 13.00 | 16.00 | No    | No  | No  |     |
|             | 11ax40-106RU | 102    | 5510 | 11.83 | 11.11 | 14.50 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 118    | 5590 | 11.06 | 11.97 | 14.55 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 134    | 5670 | 11.66 | 11.3  | 14.49 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11ax40-242RU | 102    | 5510 | 11.58 | 11.06 | 14.34 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 118    | 5590 | 11.86 | 11.83 | 14.86 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 134    | 5670 | 11.31 | 10.81 | 14.08 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11ax80-26RU  | 106    | 5530 | 7.91  | 8.34  | 11.14 | 9.00  | 9.00  | 12.00 | No    | No  | No  |     |
|             |              | 122    | 5610 | 8.77  | 8.9   | 11.85 | 9.00  | 9.00  | 12.00 | No    | No  | No  |     |
|             | 11ax80-52RU  | 106    | 5530 | 11.55 | 11.16 | 14.37 | 13.00 | 13.00 | 16.00 | Yes   | Yes | Yes |     |
|             |              | 122    | 5610 | 11.24 | 11.23 | 14.25 | 13.00 | 13.00 | 16.00 | Yes   | Yes | Yes |     |
|             | 11ax80-106RU | 106    | 5530 | 11.75 | 11.15 | 14.47 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 122    | 5610 | 11.27 | 11.18 | 14.24 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11ax80-242RU | 106    | 5530 | 11.64 | 10.99 | 14.34 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 122    | 5610 | 10.99 | 11.05 | 14.03 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 11ax80-484RU | 106    | 5530 | 11.57 | 11.15 | 14.38 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             |              | 122    | 5610 | 10.87 | 11.53 | 14.22 | 12.00 | 12.00 | 15.00 | No    | No  | No  |     |
|             | 5.8G WIFI    | 11a    | 149  | 5745  | 8.31  | 9.43  | 11.92 | 9.50  | 9.50  | 12.50 | No  | No  | No  |
|             |              |        | 157  | 5785  | 7.97  | 8.95  | 11.50 | 9.50  | 9.50  | 12.50 | No  | No  | No  |
|             |              |        | 165  | 5825  | 9.16  | 8.60  | 11.90 | 9.50  | 9.50  | 12.50 | No  | No  | No  |
|             |              | 11n20  | 149  | 5745  | 8.59  | 9.28  | 11.96 | 9.50  | 9.50  | 12.50 | No  | No  | No  |
| 157         |              |        | 5785 | 8.19  | 8.88  | 11.56 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
| 165         |              |        | 5825 | 8.89  | 8.65  | 11.78 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
| 11n40       |              | 151    | 5755 | 9.44  | 8.62  | 12.06 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
|             |              | 159    | 5795 | 9.31  | 8.39  | 11.88 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
|             |              | 149    | 5745 | 8.35  | 9.20  | 11.81 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
| 11ac20      |              | 157    | 5785 | 8.21  | 8.85  | 11.55 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
|             |              | 165    | 5825 | 9.09  | 8.61  | 11.87 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
|             |              | 151    | 5755 | 9.45  | 8.67  | 12.09 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
| 11ac40      |              | 159    | 5795 | 9.34  | 8.46  | 11.93 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
|             |              | 11ac80 | 155  | 5775  | 8.89  | 9.27  | 12.09 | 9.50  | 9.50  | 12.50 | Yes | Yes | Yes |
| 11ax20      |              | 149    | 5745 | 8.55  | 9.44  | 12.03 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
|             |              | 157    | 5785 | 9.39  | 8.91  | 12.17 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
|             |              | 165    | 5825 | 9.08  | 8.60  | 11.86 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
| 11ax40      |              | 151    | 5755 | 8.34  | 8.90  | 11.64 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
|             |              | 159    | 5795 | 9.40  | 8.50  | 11.98 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
| 11ax80      |              | 155    | 5775 | 9.16  | 9.42  | 12.30 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
|             |              | 149    | 5745 | 8.54  | 8.55  | 11.56 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
| 11ax20-26RU |              | 157    | 5785 | 8.31  | 8.98  | 11.67 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |
|             |              | 165    | 5825 | 8.3   | 9.26  | 11.82 | 9.50  | 9.50  | 12.50 | No    | No  | No  |     |

|  |              |     |      |      |      |       |      |      |       |    |    |    |
|--|--------------|-----|------|------|------|-------|------|------|-------|----|----|----|
|  | 11ax20-52RU  | 149 | 5745 | 9.02 | 8.44 | 11.75 | 9.50 | 9.50 | 12.50 | No | No | No |
|  |              | 157 | 5785 | 8.53 | 9.1  | 11.83 | 9.50 | 9.50 | 12.50 | No | No | No |
|  |              | 165 | 5825 | 8.37 | 9.33 | 11.89 | 9.50 | 9.50 | 12.50 | No | No | No |
|  | 11ax20-106RU | 149 | 5745 | 9.02 | 8.54 | 11.80 | 9.50 | 9.50 | 12.50 | No | No | No |
|  |              | 157 | 5785 | 8.67 | 9.12 | 11.91 | 9.50 | 9.50 | 12.50 | No | No | No |
|  |              | 165 | 5825 | 8.18 | 9.17 | 11.71 | 9.50 | 9.50 | 12.50 | No | No | No |
|  | 11ax40-26RU  | 151 | 5755 | 8.52 | 9.23 | 11.90 | 9.50 | 9.50 | 12.50 | No | No | No |
|  |              | 159 | 5795 | 8.91 | 8.86 | 11.90 | 9.50 | 9.50 | 12.50 | No | No | No |
|  | 11ax40-52RU  | 151 | 5755 | 8.38 | 9.35 | 11.90 | 9.50 | 9.50 | 12.50 | No | No | No |
|  |              | 159 | 5795 | 9.31 | 8.97 | 12.15 | 9.50 | 9.50 | 12.50 | No | No | No |
|  | 11ax40-106RU | 151 | 5755 | 8.57 | 8.4  | 11.50 | 9.50 | 9.50 | 12.50 | No | No | No |
|  |              | 159 | 5795 | 9.4  | 9.07 | 12.25 | 9.50 | 9.50 | 12.50 | No | No | No |
|  | 11ax40-242RU | 151 | 5755 | 8.33 | 8.24 | 11.30 | 9.50 | 9.50 | 12.50 | No | No | No |
|  |              | 159 | 5795 | 9.16 | 9.02 | 12.10 | 9.50 | 9.50 | 12.50 | No | No | No |
|  | 11ax80-26RU  | 155 | 5775 | 8.54 | 8.26 | 11.41 | 9.50 | 9.50 | 12.50 | No | No | No |
|  | 11ax80-52RU  | 155 | 5775 | 8.94 | 8.35 | 11.67 | 9.50 | 9.50 | 12.50 | No | No | No |
|  | 11ax80-106RU | 155 | 5775 | 8.67 | 8.35 | 11.52 | 9.50 | 9.50 | 12.50 | No | No | No |
|  | 11ax80-242RU | 155 | 5775 | 8.44 | 8.28 | 11.37 | 9.50 | 9.50 | 12.50 | No | No | No |
|  | 11ax80-484RU | 155 | 5775 | 7.87 | 8.73 | 11.33 | 9.50 | 9.50 | 12.50 | No | No | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

2) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.

3) When multiple transmission modes (802.11a/n/ac/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac.

## 8.2 Bluetooth

### 8.2.1 Bluetooth Output Power

| Bluetooth                                                                                                                                                                                                                                                       |            |           |                      |                    |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|----------------------|--------------------|----------|
| test Mode                                                                                                                                                                                                                                                       | Modulation | Fre.(MHz) | AV output power(dBm) | Tune up power(dBm) | SAR Test |
| BT                                                                                                                                                                                                                                                              | DH5        | 2402      | 2.25                 | 4.00               | Yes      |
|                                                                                                                                                                                                                                                                 |            | 2441      | 2.57                 | 4.00               | Yes      |
|                                                                                                                                                                                                                                                                 |            | 2480      | <b>3.26</b>          | 4.00               | Yes      |
|                                                                                                                                                                                                                                                                 | 2DH5       | 2402      | 2.23                 | 4.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2441      | 2.64                 | 4.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2480      | 2.82                 | 4.00               | No       |
|                                                                                                                                                                                                                                                                 | 3DH5       | 2402      | 2.11                 | 4.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2441      | 2.61                 | 4.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2480      | 2.80                 | 4.00               | No       |
|                                                                                                                                                                                                                                                                 | BLE1M      | 2402      | 2.06                 | 4.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2440      | 2.22                 | 4.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2480      | 2.78                 | 4.00               | No       |
|                                                                                                                                                                                                                                                                 | BLE2M      | 2404      | 2.20                 | 4.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2440      | 2.31                 | 4.00               | No       |
|                                                                                                                                                                                                                                                                 |            | 2478      | 2.93                 | 4.00               | No       |
| Note: Since bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation,and SAR measurement is not required for the EDR and LE. When the secondary mode is ≤ ¼ dB higher than the primary mode. |            |           |                      |                    |          |

## 8.2.2 Bluetooth Duty Cycle

The Bluetooth duty cycle is 76.94% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle

